City of Clearwater

Wastewater Collection System Master Plan

City Project Number 17-0006-UT

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EXECUTIVE SUMMARY

Introduction

This Master Plan is intended as a guide for the orderly implementation of capital improvement projects to accommodate growth and system upgrades to meet levels of service as well as renewals and replacements of existing assets as they reach the end of their useful life. As a wastewater collection system master plan, this document includes, the gravity pipes, manholes, lift stations, and forces mains that deliver wastewater generated by customers to the water reclamation facilities (WRFs) for treatment.

Concurrent with the Master Plan, a Capacity, Maintenance, Operations, and Maintenance (CMOM) review of the City's collection system practices was prepared (City of Clearwater Wastewater Collection System Capacity, Management, Operations and Maintenance (CMOM) Program, Tetra Tech, 2020). The US Environmental Protection Agency established the CMOM program with the ultimate goal of reducing sanitary sewer overflows (SSOs) by providing a framework for utilities to evaluate their current efforts, identify areas of improvement, develop actions to achieve goals and establish metrics to measure success. In the City's case, implementing a CMOM program is not a regulatory requirement. However, the benefits and goals of CMOM align with the City's objectives and is a useful tool for improving system performance, especially in reducing future SSOs.

System Inventory

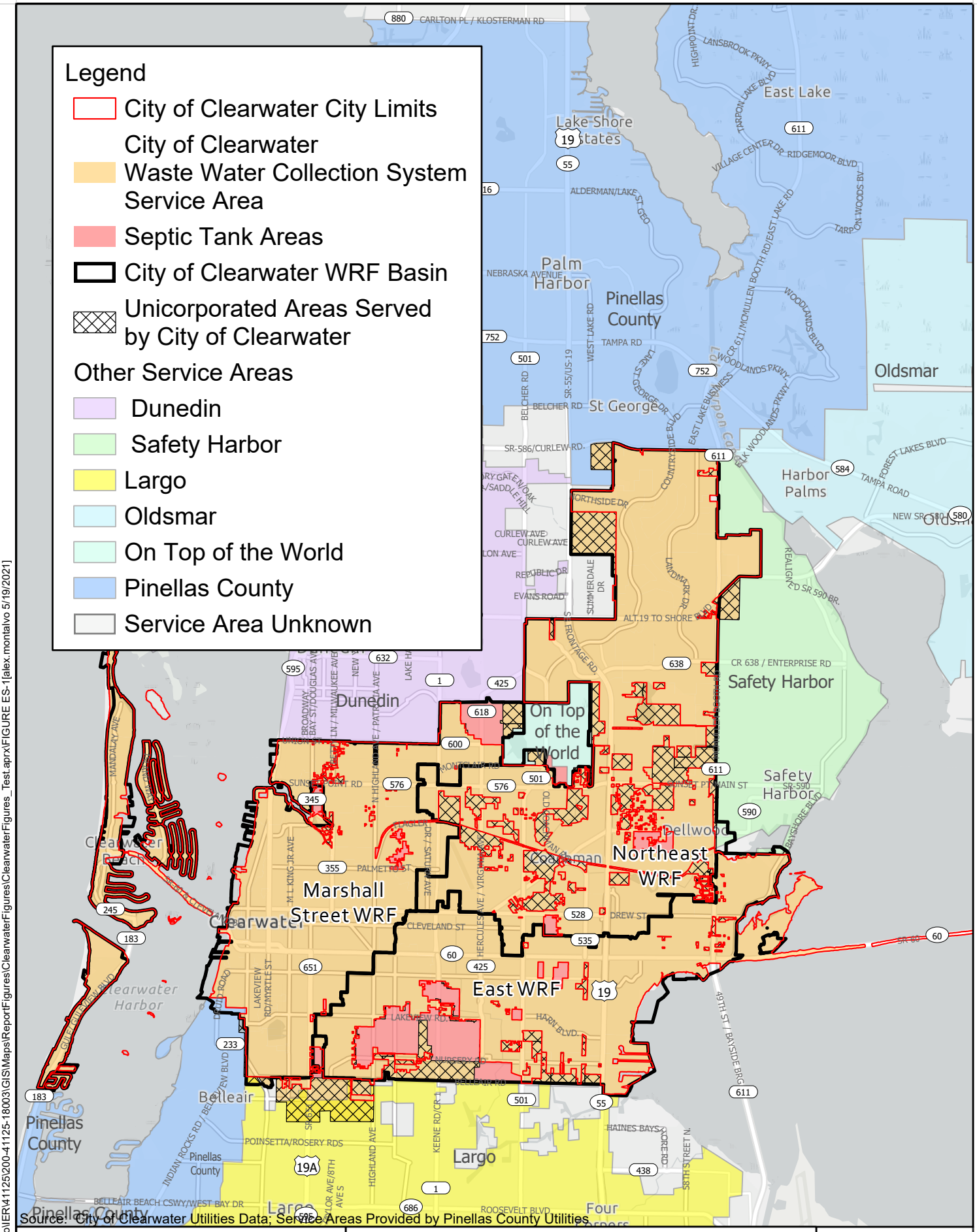
The City of Clearwater's wastewater collection system provides service to approximately 124,000 people in and around the City. In addition, the City provides service to the Town of Safety Harbor with a population of approximately 18,000. The wastewater collection system is broken into the Marshall Street, East and Northeast basins corresponding to the three WRFs in the system. **Table ES-1** presents a summary of the major assets in the collection system by basin**,** and **Figure ES-1** shows a map of the City service area and the basins.

Table ES-1. Summary of Collection System Assets

System Component	Marshall Street WRF	East WRF	Northeast WRF	Total
Gravity Mains (ft)	956,801	390,547	606,117	1,953,889
Manholes	3,983	1,568	2,706	8,257
Force Mains (ft)	106,653	23,127	71,708	201,789
City Lift Stations	41	10	22	73

Business Risk Evaluation

A key part of developing a renewal and replacement program is assessing the condition and risk of the assets in the collection system. A business risk evaluation (BRE) was conducted on the system assets to develop the relative risk associated with asset failure and prioritize areas for intervention efforts. The BRE approach evaluates both asset condition (likelihood of failure) and asset criticality (consequence of failure) on a scale of 1 to 5 with 1 being the best and 5 the worst. The scoring system for condition and criticality are shown in **Figure ES-2**.



Source: City of Clearwater Utilities Data; Service Areas Provided by Pinellas County Utilities

TETRA TECH

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Miles

CITY OF CLEARWATER
CMOM PROGRAM

WASTEWATER COLLECTION SYSTEM AREA MAP

FIGURE ES-1

O:\Projects\Orlando\ER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\ClearwaterFigures_Test.aprx\FIGURE ES-1[alex.montalvo 5/19/2021]

Figure ES-2. Scoring System for Condition and Criticality

Score	Condition	Criticality
1	Very good – Normal Maintenance required; 95% remaining service life	Low Impacts
2	Minor defects only – Reinspect; 70% remaining service life	Low to Moderate Impacts
3	Maintenance required to return to accepted level of service; some rehabilitation may be required – schedule preventative maintenance; 50% remaining service life	Moderate Impacts
4	Requires Renewal – Repair replace (low priority); 20% remaining service life	Significant Impacts
5	Asset Unserviceable – Repair replace (high priority); less than 10% remaining life	Severe Impacts

For the condition scores, information was gathered from the City's records stored in its Geographic Information System (GIS) and work order software, and data was gathered from on-going City cleaning and rehabilitation programs and field inspections. Each major asset was assigned a score based on its condition.

For criticality, the team developed seven factors that defined the expected consequence of failure for each asset. Criteria considered includes: quantity of flow conveyed, proximity to roads, water bodies, high density areas and service to critical facilities such as hospitals.

After a score of 1 to 5 is assigned for the condition and criticality factors, an overall rating is developed. The resulting matrix determines the priorities for repair and replacement of assets in the system. This provides the City with a plan for focusing resources and funding on the most immediate needs. **Figure ES-3** is a matrix showing the recommended course of action for each combination of condition and criticality scores.

Figure ES-3. Prioritization Matrix

			Criticality				
			Severe	Significant	Moderate	Low to Moderate	Low
			5	4	3	2	1
Condition	Un-serviceable	5	Highest Priority Immediate Action	High Priority Program Rehab	Priority Program Rehab	Priority Program Rehab	Priority Program Rehab
	Renewal Req.	4	High Priority Program Rehab	Priority Program Rehab	Priority Program Rehab	Frequent Condition Evaluation	Frequent Condition Evaluation
	Main. Req.	3	Priority Program Rehab	Frequent Condition Evaluation	Frequent Condition Evaluation	Frequent Condition Evaluation	Regular Monitoring
	Minor Defects	2	Frequent Condition Evaluation	Frequent Condition Evaluation	Regular Monitoring	Regular Monitoring	Regular Monitoring
	Very Good	1	Regular Monitoring	Regular Monitoring	Regular Monitoring	Regular Monitoring	Regular Monitoring

The results of the BRE for the Highest Priority (Immediate), High Priority, and Priority assets are shown in **Table ES-2** below. These assets are prioritized in the CIP for renewal and replacement.

Table ES-2. Prioritized Assets

Asset	Highest Priority (Immediate)		High Priority		Priority	
	Quantity	% of System Total	Quantity	% of System Total	Quantity	% of System Total
Gravity Mains (ft)	228	0.01%	3,155	0.16%	176,055	9%
Manholes (ea)	5	0.06%	58	0.70%	2,250	27%
Lift Stations (ea)	0	0%	3	4%	2	3%
Force Mains (ft)	0	0%	0	0%	12,941	6.4%

Capacity Analysis

Another key component of the Master Plan is conducting a capacity analysis on the collection system to identify areas where improvements are needed to maintain levels of service over the projected planning horizon of 2050. Important to this analysis is the development of a hydraulic model that simulates the characteristics of the collection system under various scenarios. The hydraulic model developed as part of the Master Plan was constructed using up-to-date information in the GIS system and adjusted where necessary based on supplemental field evaluations. The model was also calibrated using data gathered as part of the City's flow monitoring program. Beyond its function in the Master Plan, the model will continue to serve as a tool for the City to further plan changes and additions to the collection system.

The capacity analysis effort started by defining the level of service for evaluating capacity. The considerations for the level of service included meeting projected growth through 2050 with no SSOs in the system. Since wet weather plays a large role in wastewater flow consideration was given to the level of storm event that would be used for the analysis. A number of storm events were evaluated in comparison with recent major storms such as hurricane Hermine in 2017 and an extended period of wet weather in 2015 that historically caused problems in the collection system. Based on the evaluation, a 24-hour storm with a 25-year recurrence was set as the design storm for the model. Model simulations of the design storm and growth identified areas where SSOs are likely to occur in the system and capital projects were developed to mitigate the predicted SSOs. Areas with projected SSOs include:

<u>Marshall Street Basin</u>

- Along Martin Luther King Jr. Avenue between South Street and Kingsley Street.
- North Beach area in the lift station 9 and 10 sub-basins.
- Sunset Point Road and Fort Harrison Avenue.

<u>East Basin</u>

- Influent pump station at the East WRF.
- Gulf-to-Bay Boulevard from Sky Harbor Drive to the East WRF.
- Del Oro Groves neighborhood.
- North Bayshore Boulevard north of Gulf-to-Bay Boulevard.

Northeast Basin

- Lift station 50 sub-basin, along the major trunk line, and Sunset Point Road.
- Lift station 46 at Enterprise Road.
- Enterprise Road in the Lift station 25 sub-basin.
- Lift station 69.
- Mayfair Court in the Lift station 42 sub-basin.

Recommended Capital Improvement Program

A capital improvement program was developed to address the renewal and replacement and capacity issues identified in the Master Plan analysis. The program is segmented into two phases; one near term through 2030 and one long term through 2050. **Table ES-3** presents a summary of the capacity related projects, the timing and a cost estimate based on 2020 dollars. The program is predicated upon completing projects to meet the level of service (no SSOs for a 25-year, 24 hours duration storm) within the next ten years.

The renewal and replacement program will supplement the City's ongoing efforts to continually improve the system. The recommended program considers addressing all assets in priority or worse condition over a ten-year period through 2030. R&R investment from 2030 through 2050 will focus on assets with lower priority that are expected, over time, to require action.

The capacity program is prioritized on reducing the incidence of SSOs by frequency. In other words, projects that will address SSOs during a 10-year frequency storm are prioritized over projects that will address SSOs during a 25-year frequency storm. **Table ES-4** presents the estimated opinion of probably cost in 2020 dollars of the recommended capital improvement program for the collection system.

Table ES-3. Summary of Capacity Related Capital Improvement Projects

Project Number	Project Description	Planning Period	Opinion of Probable Costs
MAR-01	Various improvements to reroute LS 06 flows.	To 2030 (6 to 10 Years)	$5,881,000
MAR-02	Improvements to LS 9 and LS 10. Upsizing existing 6- and 8-inch force main between LS 9, LS 10, and LS 11. Upsize approximately 500 feet of existing 8-inch sewer near LS 10.	To 2030 (6 to 10 Years)	$6,156,000
MAR-03	Upsize approximately 2,800 feet of 8-inch gravity main along Sunset Point Road from LS 01 to Edgewater Drive, and along Edgewater Drive from Sunset Point Road to Commodore Street.	To 2030 (6 to 10 Years)	$1,945,000
MAR-04	Replace LS16 and expand discharge force main to accommodate new development and LS-06 flows from MAR-01. (Opinion of Probable Costs provide by others)	To 2030 (Within 5 Years)	$1,398,000
EAS-01	Improvements to the East WRF influent pump station. Replacement of 150 feet of existing force main.	To 2030 (Within 5 Years)	$1,488,000
EAS-02	Upsize approximately 5,100 feet of 15- to 36-inch gravity main along Gulf to Bay Boulevard.	To 2030 (6 to 10 Years)	$4,308,000
EAS-03	Upsize approximately 2,500 feet of 8-inch gravity main along San Mateo Street and Monterey Avenue.	To 2030 (Within 5 Years)	$1,736,000
NRE-01 and NRE 02	NRE-01: Upsize approximately 7,700 feet of existing 30-inch gravity main. NRE-02: Construct new lift station and install approximately 4,500 feet of 10-inch force main. Upsize approximately 3,100 feet of existing 12- and 14-inch gravity main.	To 2030 (Within 5 Years)	$19,124,000
NRE-03	Upsize approximately 4,100 feet of existing 10- and 12-inch gravity main.	To 2030 (Within 5 Years)	$2,980,000
NRE-04	Upsize approximately 1,550 feet of existing 8-inch gravity main.	To 2030 (6 to 10 Years)	$1,077,000
NRE-05	Upsize approximately 3,300 feet of existing 8-inch and 10-inch gravity main.	To 2030 (6 to 10 Years)	$2,260,000
NRE-06	Install new pumps with a higher head condition at LS 69.	To 2030 (6 to 10 Years)	$44,000
NRE-07	Replace approximately 2,000 feet of existing 4-inch force main.	To 2030 (6 to 10 Years)	$313,000
NRE-08	Improvements to LS 42 to increase capacity. Replacement of approximately 5,600 feet of existing 18- and 21-inch gravity main.	To 2030 (6 to 10 Years)	$10,412,000
NRE-09	Install approximately 21,000 feet of 10-inch force main.	Dependent upon interconnection with OTOW	$11,236,000

Table ES-4. Summary of Collection System Opinion of Probable Cost

	To 2030	2031 to 2050
Capacity Related Projects		
Marshall Street WRF	$15,380,000	$11,236,000
East WRF	$7,532,000	$0
Northeast WRF	$36,210,000	$0
Total Capacity Related Project Cost	**$59,122,000**	**$11,236,000**
Renewal and Replacement Projects		
Marshall Street WRF	$88,154,000	$108,812,000
East WRF	$48,420,000	$110,474,000
Northeast WRF	$24,046,000	$107,825,000
Total Renewal and Replacement Project Cost	**$160,620,000**	**$327,111,000**
Total CIP Cost	**$219,742,000**	**$338,347,000**

Additional Recommendations

In addition to the analysis and capital improvement program, a number of other recommendations are presented to improve the planning, management, and operations of the collection system. These recommendations represent a natural progression of improvement on the programs and processes already employed in the system.

1. Prioritize documenting gravity main condition assessments not currently available.
2. Develop a process where gravity main condition assessment data can be routinely tracked and linked with OWAM and GIS.
3. Implement a private lift station monitoring program to identify and inventory private lift stations in the system. Consider adding lift station design requirements to new private lift stations.
4. Continue flow monitoring in the system.
5. Periodically recalibrate the hydraulic model as additional data is received through the flow monitoring program.
6. Collect data on causes of SSOs and link to manholes for cross referencing in GIS.
7. Implement a formal manhole condition assessment program using industry standards.
8. Identify and inventory air release valves in the system.

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Appendix D – Gravity Main Rehab List

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Appendix G – WRF Basin Schematics and Calibrated Wet Weather Unit Hydrograph Parameters

Appendix H – NOAA Atlas 14, Volume 9, Version 2 Precipitation Frequency Data for Clearwater, FL

Appendix I – Description of Force Main Segments

Appendix J – Opinion of Probable Cost

Appendix K – Manhole BRE Class

Appendix L – GIS Shapefiles

Appendix M – Hydraulic Model Network and Lift Station Locations Illustrations

SUPPLEMENTS

Lift Station and Air Release Valve Inspection Forms Volumes 1 and 2

ACRONYMS/ABBREVIATIONS

Acronyms/Abbreviations	Definition
AADF	annual average daily flow
ADF	average daily flow
ARVs	air release valves
BRE	business risk evaluation
BEBR	Bureau for Economic and Business Research
BOD_5	biochemical oxygen demand
BWWF	base wastewater flow
$CBOD_5$	carbonaceous biochemical oxygen demand
CCTV	closed-circuit television
cfm	cubic feet per minute
CHI	Computational Hydraulics International
CI	cast iron pipe
CIP	capital improvement program
CMOM	Capacity, Management, Operations, and Maintenance
CR	county road
DIP	ductile iron pipe
ERC	equivalent residential connections
EWRF	East Water Reclamation Facility
FOG	fat, oil, and grease
FRP	fiber-reinforced plastic
FY	fiscal year
gal	gallon
GIS	Geographic Information Systems
gpcd	gallons per-capita day
gpm	gallons per minute
GWI	groundwater infiltration
HDPE	high density polyethylene
HGL	hydraulic grade line
I/I	inflow and infiltration
LS	lift station
MG	million gallons
MGD	million gallons per day
NASSCO	National Association of Sewer Service Companies

Acronyms/Abbreviations	Definition
NOAA	National Oceanic and Atmospheric Administration
O&M	operations & maintenance
PACP	Pipeline Assessment Certification Program
PVC	polyvinyl chloride
RDII	rainfall dependent inflow and infiltration
R&R	rehabilitation and replacement
RTK	Unit hydrograph approach for wet weather flow generation included in the USEPA SWMM program. R, T, and K refer to input parameters used to describe the shape and volume of I/I responses to rainfall in sanitary sewers.
SCADA	system control and data acquisition
SR	state road
SSES	sewer system evaluation survey
SSO	sanitary sewer overflow
SSOAP	Sanitary Sewer Overflow Analysis and Planning
SWMM	Storm Water Management Model
TDH	total dynamic head
USEPA	United States Environmental Protection Agency
WaPUG	Wastewater Planning Users Group
WRF	water reclamation facility

1.0 INTRODUCTION

1.1 BACKGROUND

The City of Clearwater (City) is located in Pinellas County, south of the City of Dunedin and north of the Cities of Belleair and Largo. Clearwater is bounded by Tampa Bay and the Town of Safety Harbor to the east and the Gulf of Mexico to the west. A regional location map of the City is provided in **Figure 1-1**. The City provides water, wastewater and reclaimed water service to single and multi-family homes, commercial and some industrial users with developments ranging from mobile homes to large corporations. The existing wastewater service area encompasses the majority of the City limits and areas in unincorporated Pinellas County. In 2018, the estimated population receiving wastewater service was approximately 124,000 not including the Town of Safety Harbor which is a wholesale wastewater customer of the City. The City's wastewater service area is subdivided into three basins, each representing an area served by one of the City's Water Reclamation Facilities (WRF), Marshall Street, East and Northeast.

1.2 PURPOSE

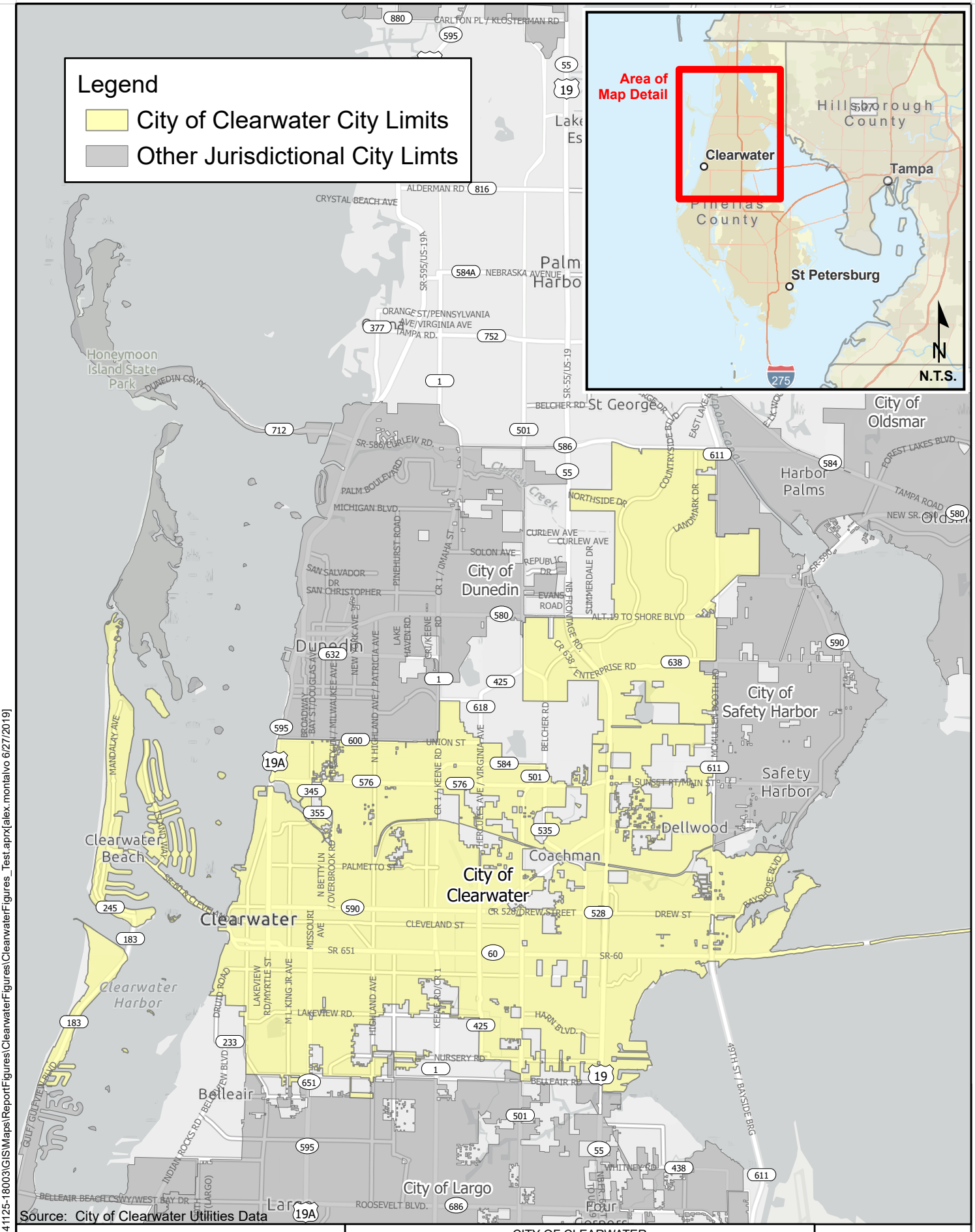
This Wastewater Collection System Master Plan (Master Plan) is intended to provide a guide for the orderly implementation of capital improvement projects to accommodate growth and system upgrades as well as renewals and replacements of existing assets as they reach the end of their useful life. As a wastewater collection system master plan, this document includes the gravity pipes, manholes, lift stations, and force mains that serve to deliver wastewater generated by customers to the WRFs for treatment.

The following elements are a part of the scope of work for the Master Plan:

- Inspection and review of the system lift stations and air release valves (ARVs).
- Documentation of the asset inventory of the collection system.
- Development of a new hydraulic model calibrated to the recent flow data gathered from recent and on-going flow monitoring efforts.
- Identification of future conditions including new growth and redevelopment within the service area for 2030 and 2050.
- Conducting a Business Risk Evaluation (BRE) prioritizing system recommendations through an analysis of likelihood of failure and consequence of failure.
- Development of a capital improvements program identifying projects for five-year, ten year and beyond ten-year planning periods.

1.3 CAPACITY, MANAGEMENT, OPERATIONS AND MAINTENANCE

Concurrent with the development of this Master Plan a Capacity, Management, Operations, and Maintenance (CMOM) review of the City's collection system practices was prepared (City of Clearwater Wastewater Collection System Capacity, Management, Operations and Maintenance (CMOM) Program, Tetra Tech, 2020). The US Environmental Protection Agency (USEPA) established the CMOM program with the ultimate goal of reducing Sanitary Sewer Overflows (SSOs) by providing a framework for utilities to evaluate its current efforts, identify areas of improvement, develop actions to achieve its goals and establish metrics to measure success. In the City's case, implementing a CMOM program is not a regulatory requirement. However, the benefits and goals of CMOM align with the Public Utilities Department (PUD)'s objectives and is a useful tool for improved system performance especially in reducing future SSOs.


Legend
City of Clearwater City Limits
Other Jurisdictional City Limts
Area of Map Detail
Hillsborough County
Clearwater
Tampa
Pinellas County
St Petersburg
N
N.T.S.
City of Clearwater
City of Dunedin
City of Safety Harbor
City of Oldsmar
City of Largo
Clearwater Beach
Clearwater Harbor
Belleair
Dellwood
Coachman
Safety Harbor
Harbor Palms
Palm Harbor
St George
Honeymoon Island State Park
Curlew Creek
Source: City of Clearwater Utilities Data
TETRA TECH
N
0
1.5
Miles
CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
REGIONAL LOCATION MAP
FIGURE 1-1
P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\ClearwaterFigures_Test.aprx[alex.montalvo 6/27/2019]

More specifically, the CMOM review:

- Evaluated the progress from the previous 1999 MOM.
- Provided a summary of the capacity, management, operations, and maintenance practices of the system.
- Established a Mission Statement for the management, operations, and maintenance of the collection system.
    - The City of Clearwater Public Utilities Department is:
        - Dedicated to continuous improvement of services for our customers and citizens, while working with other departments, municipalities, and regulators to provide a reliable, efficient, sustainable, and cost-effective wastewater collection system.
        - Dedicated to being a good environmental steward by keeping the wastewater in the system while protecting, engaging, and empowering employees.
- Identified four focus areas for the improvement of the management, operations and maintenance of the collection system in line with Core Values and the Mission Statement.
    - Adequately Resourced Organization – PUD recognizes that an engaged workforce is crucial to achieving the Mission. Rapid employee turnover and the lack of a skilled workforce results in the loss of institutional knowledge and reduced efficiency.
    - Management Systems – Collecting data in a complete and accurate fashion is crucial to develop the material necessary to make informed decisions about the management, operations and maintenance of the system.
    - Planning – Proper system planning requires certain tools to evaluate system performance and take measured actions in response to a changing service area.
    - System Maintenance – Continued improvements in system maintenance will improve reliability and efficiency in the system.
- For each of these focus areas a set of action items was developed, that when completed, will result in an improved ability to achieve the Mission. Each action item identified was assigned a person responsible for its completion, a time frame for completion and an estimation of the resources required for successful implementation.
- Established key performance indicators to quantify and track system performance, resource utilization and progress.

In addition, this master plan serves as summary asset inventory, evaluation of system capacity, and the development of capital projects supporting the CMOM program. As such this Master Plan should be considered an integral part of the CMOM program.

1.4 REPORT STRUCTURE

For the purposes of this Master Plan, the wastewater collection system is separated into three areas corresponding to the service basins of the three WRFs. The Master Plan has the following Sections:

- Executive Summary – A high level summary of the analysis and results of the Master Plan, including a summary of the proposed capital improvement program (CIP).
- Section 1 – Introduction.
- Section 2 – A description of the service area, summary of previous evaluations and a description of the condition and business risk evaluation (BRE) methodology.

- Section 3 – A description of the hydraulic model and model calibration.
- Section 4 – A description of the capacity analysis results of the hydraulic model
- Section 5 – Marshall Street WRF Basin – A summary of the asset inventory, asset condition, results of the BRE, hydraulic modeling and capital project development.
- Section 6 – East WRF Basin – A summary of the asset inventory, asset condition, results of the BRE, hydraulic modeling and capital project development.
- Section 7 – Northeast WRF Basin – A summary of the asset inventory, asset condition, results of the BRE, hydraulic modeling and capital project development.
- Section 8 – Capital Program development and recommendations.

2.0 EXISTING SYSTEM

2.1 SERVICE AREA

The City's wastewater collection system service area is shown in **Figure 2-1**. The service area encompasses 26.3 square miles within the incorporated city limits of the City of Clearwater and 4.93 square miles of unincorporated Pinellas County. The service area has a mix of residential, commercial, and light industrial land uses. There is also a significant amount of governmental and institutional land uses in the downtown area. Clearwater Beach is a well-known tourist destination and has significantly different development pattern than the eastern portion of the service area. At the end of 2018, approximately 31,800 customer accounts were receiving wastewater service from the City.

In the north central portion of the service area, wastewater service is provided by On Top of the World, a not-for-profit wastewater system that serves the On Top of the World retirement community exclusively. Immediately to the north, the City of Dunedin provides wastewater service, and the City of Largo provides service south of the City. Approximately 1.54 square miles of the service area also contains pockets of septic tanks. The City of Safety Harbor (population approximately 18,000) lies directly to the east of the City service area and receives bulk wastewater treatment from the City.

There are also a number of private wastewater systems that are City customers. These private systems are primarily mobile home parks and multi-family complexes (condominiums and apartments) with their own gravity lines and sometimes lift stations that discharge into the City collection system.

The service area is broken down into three basins corresponding to the three WRFs as shown in **Figure 2-1.**

2.2 SUMMARY OF ASSETS

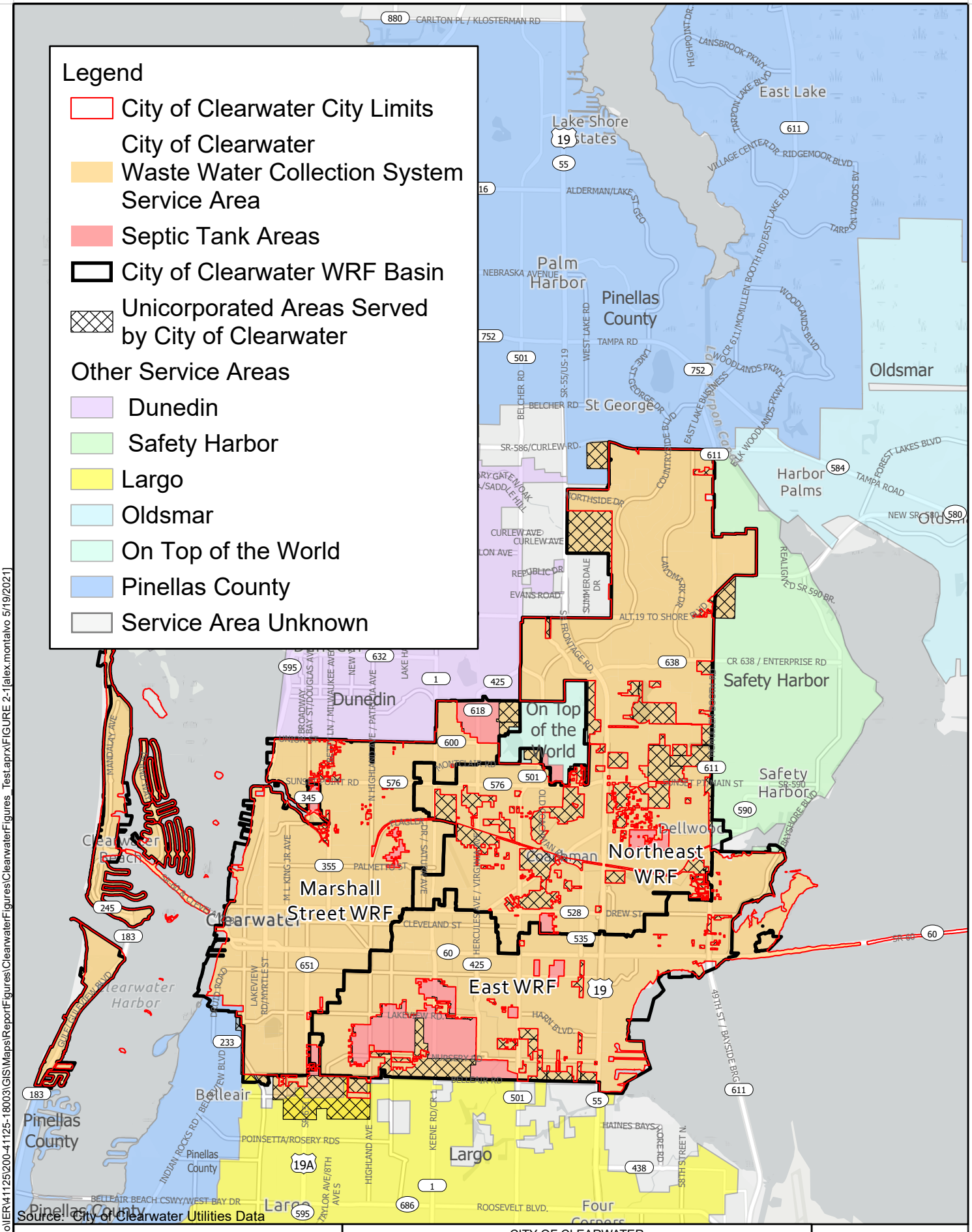
The City's collection system consists of approximately 8,300 manholes, 2.0 million feet of gravity mains, 202,000 feet of force mains and 73 public lift stations. There are three WRFs that treat the wastewater generated in the service area and serve as the major sections in this report: Marshall Street, East and Northeast. **Table 2-1** provides a summary of the collection system by WRF basin. A more detailed description of the assets is provided in subsequent sections.

Table 2-1. Summary of Collection System Assets

System Component	Marshall Street WRF	East WRF	Northeast WRF	Total
Gravity Mains (ft)	956,801	390,547	606,117	1,953,889
Manholes	3,983	1,568	2,706	8,257
Force Mains (ft)	106,653	23,127	71,708	201,789
City Lift Stations	41	10	22	73

2.3 PREVIOUS WORK

In 1999, the City was one of the first utilities in the country to conduct a Management, Operation and Maintenance (MOM) Audit (Tampa Bay Engineering, September 1999) and develop a program for the systematic review and investigation of the collection system. This was performed in conjunction with a Sewer System Evaluation Survey (SSES) (Tampa Bay Engineering, August 1999) that included inspections of the gravity mains, smoke testing, lift



O:\Projects\Orlando\ER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\ClearwaterFigures_Test.aprx\FIGURE 2-1[alex.montalvo 5/19/2021]

TETRA TECH

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

WASTEWATER COLLECTION SYSTEM AREA MAP

FIGURE 2-1

station evaluation and development of a hydraulic model. These efforts resulted in a series of capital improvement projects that were implemented.

In 2010 and 2011, the collection system was again evaluated, focusing primarily on an evaluation of lift stations and updating the hydraulic model (Technical Reports 1 and 2; Malcom Pirnie, September 2010, January 2011). The results were used to develop new capital projects that were integrated and prioritized with the collection system projects already identified by the City.

In 2015, the City embarked on a study to identify sources of inflow and infiltration in the collection system. Phase 1 of the study deployed a number of flow monitoring stations throughout the system to estimate the quantify of inflow and infiltration (I/I) and identify the locations where I/I was prevalent. In Phase 2, smoke testing, dye testing and closed-circuit television (CCTV) inspections were employed to pinpoint the sources of I/I (Flow Monitoring Technical Memorandum, McKim & Creed, October 2016, December 2016). Based on the resulting information, Phases 3 and 4 developed and implemented several I/I abatement solutions that led to significant flow reductions in the Marshall and East WRF basins. In addition to the projects developed from the 2015 I/I abatement efforts, the City implemented a permanent flow monitoring program in each WRF basin to collect long term flow data at key points in the system.

2.4 CONDITION ASSESSMENTS

As part of the Master Plan, Tetra Tech conducted assessments on the lift stations and ARVs. The information determined from these assessments is used to document system condition and define capital projects.

Condition assessments of the lift stations included a visual inspection of the lift station site, wet well, pumps, control panel and valve vault. Drawdown tests were also conducted to ascertain the functioning capacity of the lift station pumps. The data was collected into an assessment form documenting the condition of each component and calculating an overall condition score. **Appendix A** presents a sample of the lift station assessment form.

Condition assessment of air release valves started with verification of the ARVs as shown in City Geographic Information System (GIS) with field locations. In many cases ARVs could not be located in the field. The condition assessment consisted of a review of the major ARV components and a test of functionality. A copy of the ARV assessment form is shown in **Appendix B**. The completed inspection forms are provided under separate cover titled Wastewater Collection System Master Supplement – Lift Station and Air Release Valve Inspection Forms.

2.5 FISCAL YEAR 2019 CAPITAL IMPROVEMENT PROGRAM

The City's fiscal year (FY) 2019 Capital Improvement Program is summarized in **Table 2-2**. The majority of the capital investment in the collection system consists of programmatic elements that represent on-going renewal and replacements (R&R) in the system.

Table 2-2. FY 2019 Capital Improvement Program

City Project #	Project Title	Comments
19-0011-UT	Replace C900 pipe (north side of Sand Key bridge)	Follow up project to the force main replacement on Sand Key. Replacing C900 that is suspected to have been improperly installed. The extent has not yet been determined.
17-0016-UT	LS 45 Sand Key Force Main	Project underway.
19-0013-UT	WWCS Flow Monitoring Services	Project underway.
18-0058-UT	LS 54 & 65 Rehab & Design Standards	Project underway.
--	System Wide (Include LS) H2S control feasibility study	PUD Project Sub No. 18001
19-0011-UT	WWCS Relocate: 1469 Jacaranda Circle S.	8" CIP ('84) runs beneath structure. Appears two lots joined and overlooked the sanitary pipe running between the two.
17-0046-EN	FEMA - Elevate 8 LS Control Panels	FEMA Hazard Mitigation Grant for lift stations 9, 10, 11, 28, 35, 39, 80, 81
17-0046-EN	FEMA - Purchase 7 Trailer Mounted Generators	FEMA Hazard Mitigation Grant funded.
17-0006-UT	WWCS Master Plan	Project completed.
19-0011-UT	Realign sewer pipe in Ridge Crest Park	Estimated scope of project is 200 to 300 ft of gravity pipe.
--	LS Maintenance Program	Current effort includes coating the manholes upstream from LS 9 and 10. PUD Project Sub No. 15163
17-0015-UT	Lift Station #20 Odor Control Evaluation	Project complete.
19-0011-UT	Sewer Relocation Mobile Home	Relocation of pipes to roadway for improved access. At US 19 and Nursery.
19-0011-UT	WWC Main 8" Pipelines - Upgrade substandard 6" to 8" (Eunice Lane)	
19-0011-UT	Force Main (FM) Replacements - Replace FM to remove the inflow and infiltration LS #10	LS 9 and 10 seem to be fighting each other during rain events. Maybe due to force main or may be due to I/I in system. Rehab efforts are currently underway in the area that may alleviate the problem.

Table 2-2. FY 2019 Capital Improvement Program (Continued)

City Project #	Project Title	Comments
--	LS #53 and contributors Evaluation (look at way to reduce flow or address flows to 53)	LS 53 has long run times. Could be due to I/I or contributions from LS 55. PUD Project Sub No. 15159
19-0011-UT	WWC Manhole & Gravity Line Replacements (8,10,12)	Future projects as they are identified
19-0011-UT	WWC Main Upsize Pipelines (15" & larger) - Citywide replace larger diameter wastewater pipes (contractors)	Future projects as they are identified
17-0060-UT	Manhole Pans Project	Install citywide manhole rain trays to limit amount of storm water inflow.
17-0060-UT	Cleanout Program & Top Hat	Installing cleanouts and liners in service laterals.
17-0060-UT	Manhole Ring & Cover Replacement Project	Replace citywide manhole rings and covers because they are failing.
18-0004-PD	LS #60 Refurbishment	District 3 Substation
19-0011-UT	Gravity Sewer Lines	Future Projects to relocate line in the back yards to the street.
19-0011-UT	Intermittent line depressions (bellies) & obstructions (Court & Chestnut (W of Myrtle to MLK & slightly N of Pierce)	
17-0060-UT	2018 Sewer Pt Repairs & Improv	Future point repairs as they occur or are identified during CCTV inspections
19-0011-UT	Clearwater Harbor Force Main	Determine if the existing line can be slip lined and remain in place. This is the line that was supposed to be grouted during project 14-0041-UT. Would provide a redundant line.
19-0011-UT	LS 63	Pump station serves a single residence due to lateral being too low to connect to the main. Project to potentially eliminate Lift station
19-0011-UT	WWCS Program EOR	

2.6 BUSINESS RISK EVALUATION METHODOLOGY

Each of the elements of the collection system were evaluated to identify and prioritize rehabilitation and replacement (R&R) efforts. In order to identify the R&R needs and establish a framework for continuing future rehabilitation strategy, the collection system was evaluated based on condition (likelihood of failure) and criticality (consequence of failure). Assets that should receive immediate inspection or rehabilitation can be identified by scoring them in terms of their criticality and condition. Assets whose failure might have larger impact on the community and environment and whose condition is the poorest will receive priority action. Assets that have a lower criticality and condition rating will receive enhanced or continued monitoring.

The prioritization process used consists of the five steps as described in **Figure 2-2** below.

Figure 2-2. Prioritization Process



- Step1: Determine and identify the condition and criticality factors that are used to evaluate the system.
- Step 2: Collect the data that is used to evaluate the condition and criticality factors.
- Step 3: Assign levels to each condition and criticality factor. The purpose of assigning levels is to differentiate assets based on their condition and criticality.
- Step 4: Calculate a condition and criticality rating for each asset. These ratings are calculated by using the level assigned to each factor and the relative importance of each factor.
- Step 5: Use the ratings to prioritize the system and determine short-term and long-term rehabilitation efforts.

2.6.1 Condition and Criticality Factors Identification and Data Collection

Condition Factors developed are unique to the specific collection system assets. The factors were selected based on the most detailed and accurate data available. **Table 2-3** presents a listing of the condition factors used for each of the collection system components. The criteria utilized in development of the criticality factors is presented in **Table 2-4**.

Table 2-3. Condition Factors

System Component	Condition Factor
Gravity Mains/Manholes	PACP Codes as developed from CCTV inspection data (47% of pipe length) Age and material (remaining 53% of pipe length)
Force Mains	Age and material.
Lift Stations	Multi component field inspection evaluation (see Appendix A)

The development of the condition factors was based on the following:

- Data for gravity mains was obtained from the most recent CCTV data available that could be assigned to an asset number in GIS. After a thorough review of the data, it was determined that approximately 47% of the total gravity mains length could be matched to a CCTV file that had a National Association of Sewer Service Companies (NASSCO) Pipeline Assessment Certification Program (PACP) score. Age and material as contained in the GIS database was used for the remaining condition data. There was very little information systemwide on manhole condition, so for the purposes of this assessment the connecting gravity pipe condition is used as a proxy and the two asset classes are considered together.
- Age and material data for the force mains was obtained from a combination of GIS and available system as-builts and record drawings.
- Tetra Tech conducted a condition assessment survey of the collection system lift stations that evaluated the condition of individual components. Condition data used for the prioritization analysis uses composite condition score for each lift station.

Criticality factors were developed with input from the City to capture the consequence of asset failure. The following criticality factors were selected for the collection system assets.

Table 2-4. Criticality Factors

Criticality Factor	Gravity Mains/ Manholes	Force Mains	Lift Stations
Quantity of Flow Conveyed	Pipe Diameter	Pipe Diameter	Firm Capacity
Transportation Impacts	Proximity to roads	Proximity to roads	Proximity to roads
Environmental Impacts	Proximity to water bodies	Proximity to water bodies	Proximity to water bodies
Difficulty of Repair	Depth	Depth	NA
Repumped Capacity	NA	NA	Number of tributary lift stations
Critical Facilities	Proximity to schools, hospitals, and parks	Proximity to schools, hospitals, and parks	Proximity to schools, hospitals, and parks
Public Impact	Surrounding land use density	Surrounding land use density	Surrounding land use density

Data for the criticality criteria was derived from a number of sources. Pipe size and depth were determined by information contained in the GIS system as supplemented by field data, as-builts and record drawings. Proximity data was obtained from a geospatial analysis using GIS.

2.6.2 Assign Levels of Condition and Criticality

In order to differentiate assets in terms of condition and criticality, a rating scale from one to five was developed for each with the following definitions. The scoring system for condition and criticality is shown in **Table 2-5**.

Table 2-5. Scoring System for Condition and Criticality

Score	Condition	Criticality
1	**Very good – Normal Maintenance required; 95% remaining service life**	**Low Impacts**
2	**Minor defects only – Reinspect; 70% remaining service life**	**Low to Moderate Impacts**
3	**Maintenance required to return to accepted level of service; some rehabilitation maybe required – schedule preventative maintenance; 50% remaining service life**	**Moderate Impacts**
4	**Requires Renewal – Repair replace (low priority); 20% remaining service life**	**Significant Impacts**
5	**Asset Unserviceable – Repair replace (high priority); less than 10% remaining life**	**Severe Impacts**

The purpose of the scoring system is to quantify the likelihood and consequence of failure. The definitions of scoring for each factor are used to categorize each gravity pipe segment, force main and lift station in terms of its unique condition and location. For ease of presenting condition and criticality graphically the scores are color coded with red being the most severe, orange, and yellow with lesser degrees of severity and green and blue representing good condition and low criticality.

2.6.3 Condition Criteria

Table 2-6 presents the condition criteria for each asset class. For gravity mains, preference was given to using the PACP score. Where no score was available, the score was set based on age and material. Lift stations were evaluated on a number of mechanical, site, electrical, and instrumentation items that were combined into a composite score. In this case rounding was used to classify the overall condition. For example, scores less than 1.5 are considered 1, scores between 1.5 and 2.5 are considered 2, and so on. Since there was no condition assessment information on system force mains age and material were used as a proxy for condition. Given the general nature of these data sources only scores of 1, 3, 4 and 5 are used.

Table 2-6. Condition Criteria by Asset Class

Score	Gravity Pipe/Manholes	Force Mains	Lift Stations
1	1. Highest PACP score of no more than 1 or, 2. Age less than 20 years and material is PVC, HDPE, or lined	Age less than 20 years and material is PVC, HDPE or lined	Excellent condition
2	1. Highest PACP score of no more than 2	NA	Slight visible degradation
3	1. Highest PACP score of no more than 3 or, 2. Age greater than 20 and less than 40 years and material is ductile iron, clay, or FRP	Age greater than 20 and less than 40 years and material is ductile iron, clay, or FRP	Visible degradation
4	1. Highest PACP Score of no more than 4 or, 2. Age is greater than 40 and less than 50 years and material is cast iron or concrete	Age is greater than 40 and less than 50 years and material is cast iron or concrete	Integrity of component moderately compromised
5	1. PACP Score of 5, Previous SSO location, or identified “hot spot” by City	Pipes greater than 50 years	Integrity of component severely compromised

2.6.4 Criticality Criteria

The criticality criteria define the expected consequence of failure in terms of unique asset attributes. The tables below present a description of each criticality factor and the criteria for each score. For the purposes of this analysis, the criteria are weighted equally for each asset.

2.6.4.1 Quantity of Flow Conveyed

The quantity of flow conveyed is estimated based on the size of the gravity mains and force mains and the capacity of the lift stations. Pipes and force mains with larger diameters are assumed to convey a greater quantity of wastewater than pipes of smaller diameters. **Table 2-7** presents the quantity of flow criteria.

Table 2-7. Quantity of Flow Criticality Criteria

Score	Gravity Mains	Force Main	Lift Station
1	Less than or equal to 8 in diameter	Less than or equal to 6 in diameter	Less than or equal to 300 gpm firm capacity
2	10 in to 12 in diameter	8 in to 12 in diameter	301 to 500 gpm firm capacity
3	14 in to 16 in diameter	14 in to 16 in diameter	501 to 1000 gpm firm capacity
4	18 in to 24 in diameter	18 in to 24 in diameter	1001 to 1500 gpm firm capacity
5	30 in diameter and greater	Greater than 24 in diameter	Greater than 2000 gpm firm capacity

2.6.4.2 Transportation Impact

The impact to traffic is estimated based on proximity to roads and the type of roadway. Generally, assets that fail near or under roads will have a greater impact on transportation than those farther away. Also, the size of the road or presence of a rail line determines the severity of the impact with larger roadways being subject to a greater disruption of traffic. **Table 2-8** presents the criticality criteria for transportation impacts.

Table 2-8. Transportation Impact Criticality Criteria

Score	Criteria – All Assets
1	Greater than 25 feet from any road
2	Within 25 feet of any road (local)
3	Within 25 feet to 100 ft of a major road (CR, SR, Interstate) or railroad
4	Less than 25 feet from a major road or railroad track
5	Crossing or under any major road or railroad track

2.6.4.3 Environmental Impact

Any wastewater spill has an adverse impact on the environment. It is expected that the City spill response crews would have a better chance of locating and containing a wastewater spill that occurs on land as compared to a spill that occurs in the water or reaches surface water. Therefore, the environmental impact was estimated based on the distance of the asset to a water body, wetland or major stormwater conveyance system as defined in GIS. **Table 2-9** presents the criticality criteria for environmental impacts.

Table 2-9. Environmental Impact Criticality Criteria

Score	Criteria – All Assets
1	Greater than 500 feet from a water body, major stormwater conveyance system or wetland
2	500 ft to 251 ft from a water body, major stormwater conveyance system or wetland
3	250 ft to 101 ft from a water body, major stormwater conveyance system or wetland
4	100 ft to 25 ft from a water body, major stormwater conveyance system or wetland
5	Within 25 ft of a water body, major stormwater conveyance system or wetland

2.6.4.4 Difficulty of Repair – Pipe Only

Another component of criticality is the ability of City maintenance crews to easily repair a gravity pipe or force main failure. If the pipes or force mains are difficult to repair in an emergency, then there is a greater potential for increased impacts to the community and environment. The difficulty of emergency repairs was measured by depth. Pipes that are deep often require special safety equipment to access. In addition, deeper pipes may be below the water table such that excavation trenches would have to be dewatered, adding complexity and time to making the pipe repair. **Table 2-10** describes the levels assigned to each gravity main or force main. Lift stations are not evaluated based on these criteria since repairs, in most cases, do not require excavation.

2.6.4.5 Critical Facilities

The City identified critical facilities where there is an increased likelihood of either the public coming into contact with a wastewater spill or there are high risk individuals present. Through discussions with the City proximity to schools, hospitals, and parks were identified as critical facility criteria. **Table 2-11** presents the critical facilities criteria.

Table 2-10. Difficulty of Repair Criticality Criteria

Score	Criteria – Gravity Mains/Manholes and Force Mains only
1	Less than 4 feet depth
2	4.00 to 9.00 feet depth
3	9.01 to 13.00 feet depth
4	13.01 to 16.00 feet depth
5	Greater than 16.00 ft depth

Table 2-11. Critical Facilities Criticality Criteria

Score	Criteria – All Assets
1	Greater than 500 feet from a school, hospital, or park
2	500 ft to 251 ft from a school, hospital, or park
3	250 ft to 101 ft from a school, hospital, or park
4	100 ft to 25 ft from a school, hospital, or park
5	Within 25 ft of a school, hospital, or park

2.6.4.6 Public Impact

Beyond critical facilities wastewater spills represent a threat to the health and safety of the community at large. In addition, clean up, repair and unplanned rehabilitation efforts contribute to a general disruption of the public environment. The public impact criteria were developed to take these factors into account. Density of land use is used as the indicators for the overall level of activity in an area that would be affected by a failure. **Table 2-12** presents the public impact criticality criteria.

2.6.4.7 Repumped Capacity – Lift Stations Only

The repumped capacity criteria is a means of quantifying the relative importance of a lift station to the systemwide transfer of wastewater. Master lift stations that receive flow from numerous tributary lift stations have a greater impact at failure than a small lift station with a small contributing area. Repumped capacity criteria is based on the number of tributary lift stations. **Table 2-13** presents the criteria for the repumped capacity factor.

Table 2-12. Public Impact Criticality Criteria

Score	Criteria – All Assets
1	Located within a low-density land use
2	NA
3	Located within a medium-density land use
4	NA
5	Located within a high-density land use

Table 2-13. Repumped Capacity Criticality Criteria

Score	Criteria – All Assets
1	Repumps flow from 1 or no other lift stations
2	Repumps flow from 2 lift stations
3	Repumps flow from 3 lift stations
4	Repumps flow from 4 lift stations
5	Repumps flow from 5 or more lift stations

2.6.5 Prioritization

After a score of 1 to 5 is assigned to each asset for each of the condition and criticality factors, an overall rating is developed. Since there is only one factor used to document condition, it is considered on its own. For the six criticality factors, a single 1 to 5 score is developed applying equal weighting to each factor. For example, a force main with criticality factors of 2, 4, 3, 2, 3, 3 would receive an overall criticality score of 2.8 (17, the sum of the scores divided by 6).

The combination of condition and critically scores determines priorities for repair or replacement of system assets. This provides the City with a plan for focusing available resources and funding on the most immediate needs. The results are summarized in the recommended course of action based on the condition and criticality scores. **Figure 2-3** is a matrix showing the recommended course of action for each combination of condition and criticality scores.

Figure 2-3. Prioritization Matrix

			Criticality				
			Severe	Significant	Moderate	Low to Moderate	Low
			5	4	3	2	1
Condition	Un-serviceable	5	Highest Priority Immediate Action	High Priority Program Rehab	Priority Program Rehab	Priority Program Rehab	Priority Program Rehab
	Renewal Req.	4	High Priority Program Rehab	Priority Program Rehab	Priority Program Rehab	Frequent Condition Evaluation	Frequent Condition Evaluation
	Main. Req.	3	Priority Program Rehab	Frequent Condition Evaluation	Frequent Condition Evaluation	Frequent Condition Evaluation	Regular Monitoring
	Minor Defects	2	Frequent Condition Evaluation	Frequent Condition Evaluation	Regular Monitoring	Regular Monitoring	Regular Monitoring
	Very Good	1	Regular Monitoring	Regular Monitoring	Regular Monitoring	Regular Monitoring	Regular Monitoring

2.6.5.1 Highest Priority, High Priority and Priority

Assets within the priority classification have a combination of higher than average likelihood and consequence of failure and should be scheduled for rehabilitation, renewal or replacement in a priority corresponding to the combined score. That is, assets with a score of 5 for both condition and criticality should be prioritized over those assets with lower scores.

2.6.5.2 Frequent Condition Evaluation

Assets with moderate condition and criticality scores should have their condition evaluated frequently. The purpose of a frequent condition evaluation is to check if the condition has deteriorated to a point that the asset would be moved to a higher action category.

2.6.5.3 Regular Monitoring

Assets with low or low to moderate condition and criticality scores can remain on the City's routine preventative maintenance and monitoring program until such time the evaluated condition or criticality factors shift to a higher category.

2.6.6 Renewal and Replacement Methodology

2.6.6.1 Gravity Mains

In order to evaluate the R&R actions for the gravity mains in the collection system, Tetra Tech utilized an industry standard condition assessment and asset management software package from Innovyze® Inc., called InfoAsset™

(formerly known as InfoMaster™). InfoAsset™ provides a systematic approach to condition assessment and rehabilitation recommendation development. The application leverages the data collected in the continuing CCTV inspection program. Inspection details for each pipe segment are imported into the application. As a result, the defects for each inspected pipe segment are identified by, the type of defect, location along the pipe, and severity of the defect. Additionally, the various defects along a pipe are evaluated by their relationship to other defects along a given pipe segment. For example, an offset joint may be within close proximity to a lateral reinstatement, both of which may require a point repair. The application will merge the two repairs into one comprehensive point repair at the appropriate length. This approach allows the Utility to research any segment of pipe and follow a logical process that details how rehabilitation recommendations are developed.

R&R recommendations are produced through a decision tree process for each segment of pipe. The decision tree evaluates each segment through a series of Yes or No questions based on observed defect and pipe characteristics. **Figure 2-4** provides a simplified illustration of the initial four evaluation These steps which are detailed below. The decision tree utilized in this approach is provided in its entirety as **Appendix C**.

A key step in the prioritization process is to develop accurate CCTV data for those parts of the gravity system where data was not available or could be matched to the pipe segment. The condition for approximately 53% of the gravity mains was determined through estimates of age and material. Obtaining actual condition data for these pipe segments will greatly enhance the prioritization of the R&R program.

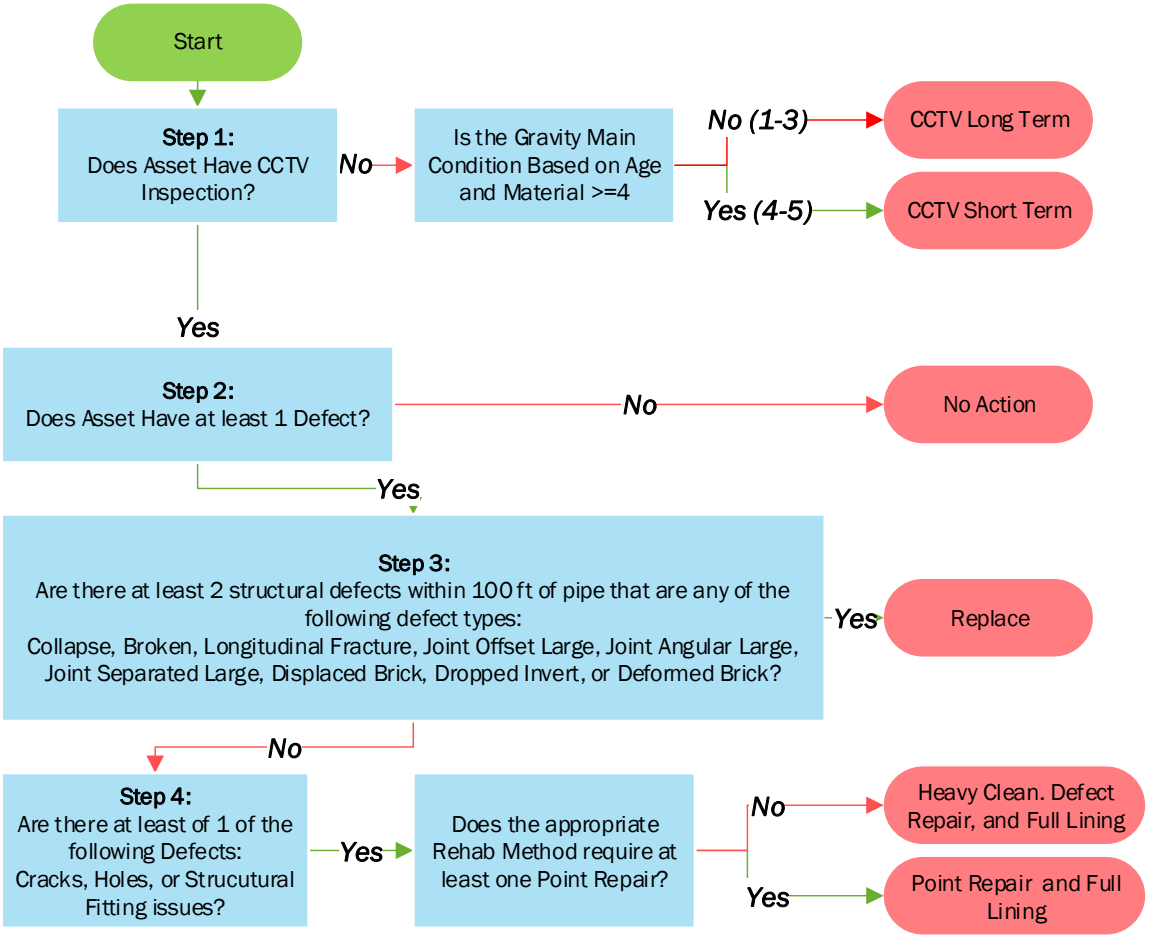
The decision tree illustration is based on common industry guidelines and practices and is intended to provide general idea of how R&R actions can be determined. Further investigation and review at a detailed level is recommended prior to implementation of the activities.

Evaluation Step 1 reviews the presence of CCTV or survey data. Pipe segments that do not have CCTV inspection are flagged for future inspection. Segments with CCTV inspection data are evaluated in Step 2. This step determines if defects exist on a given pipe segment. Assets with no defects are designated to a “No Action” result. Segments with more than one defect, progress to Step 3. This step is a top-level structural defect review, whereby pipe segments with significant structural pipe defects are identified for replacement.

The defects reviewed in Step 3 include broken pipe, voids, longitudinal fractures, displaced brick, dropped inverts, large offset joints, separated joints, and collapses. Segments with these structural defects are designated for replacement. Pipe segments with a no result in Step 3 move on the Step 4, which evaluates segments with less severe structural defects such as circumferential cracks, longitudinal cracks, spiral cracks, and various fitting issues.

Pipe quantities sorted by rehabilitation action and probable opinion of costs for each of the WRF basins are provided in Sections 5, 6 and 7 for the Marshall Street WRF, East WRF and Northeast WRF Basins, respectively. Rehabilitation recommendations are provided for each segment of pipe as **Appendix D**.

Figure 2-4. Initial Rehabilitation Decision Tree Process



2.6.6.2 Manholes

Historically the City has conducted manhole inspections in limited areas on a case-by-case basis. However, a comprehensive NAASCO condition assessment program similar to that for the gravity mains is not in place and system wide manhole conditions are not available. As a result, estimated rehabilitation quantities and costs are derived from a spatial analysis model. Estimated condition and criticality of manholes are assigned based on the highest scoring or "worst condition" pipes that intersect a given manhole. This methodology allows manholes to be assigned into respective BRE groupings for prioritization. Manhole rehabilitation methods are assigned to assets within the 3 priority BRE groups; Highest Priority Immediate Action, High Priority Program Rehab, and Priority Program Rehab. Additionally, quantities within each rehab method are estimated at 20% of the population falling into 5 rehabilitation categories; manhole replacement, coating with minimal deterioration, coating with significant deterioration, no action required and miscellaneous rehabilitation. Miscellaneous rehabilitation includes items such as re-benching, repairs the flow channel, etc. Quantities and probable opinion of costs are provided for assets relative to the three treatment facilities in subsequent respective sections of this report.

It is important to note that the condition and therefore the recommendations for R&R of manholes are extrapolated from the condition of the connecting mains and not actual condition data. As a manhole inspection program is implemented and actual conditions are developed the recommendations presented herein should be reevaluated.

2.6.6.3 Lift Stations

Lift station R&R was prioritized based on BRE result for lift stations that received a priority score. The remaining lift stations were prioritized based on the highest composite condition score. Some of the corrective actions noted from the inspections can be completed as maintenance rather than capital projects. A meeting was held with City staff on February 24, 2020 to determine which lift stations would be included as capital projects.

2.6.6.4 Force Mains

Force main R&R is prioritized based on BRE result. Systemwide force main condition was estimated using pipe material and age, and as the City implements a force main condition assessment program the prioritization should be reevaluated.

3.0 HYDRAULIC MODEL DEVELOPMENT & CALIBRATION

A hydraulic model was developed as a tool to evaluate existing system capacities and develop alternatives to improve the level of service where necessary. The hydraulic model is a computer representation of the City's collection system that is based on the assets in the collection system and includes nearly all of the publicly-owned gravity mains, lift stations, and force main. The model was calibrated to observed data collected through the City's ongoing permanent flow metering program. The following section describes how the hydraulic model was developed, calibrated, and provides an overview of predicted system performance as compared to observed historic sanitary sewer overflows (SSOs).

3.1 MODEL SOFTWARE SELECTION

An evaluation of various hydraulic models was performed to select a software for use on this project. The *Collection System Master Plan Model Software Review and Selection* memorandum, sent to the City on December 13, 2018, includes comprehensive details on the evaluation for the final modeling software selection. The evaluation considered many attributes including capability to accurately represent the City's collection system, integration within GIS, ease of use, and software cost. While there were many software options that would be suitable for use on this project, the City and Tetra Tech selected the PCSWMM software platform by Computational Hydraulics International (CHI). PCSWMM provides an improved graphical user interface (GUI) to the United States Environmental Protection Agency (USEPA) Stormwater Management Model (SWMM). Therefore, while PCSWMM is used, the underlying numerical engine is the USEPA SWMM program. The USEPA SWMM program is an open-source platform and well recognized for hydraulic modeling and master planning similar to this project. While the PCSWMM interface is proprietary, the resulting input files are completely interchangeable with the open source USEPA SWMM, allowing the City to easily transfer the model or apply a different interface in future evaluations. For this project, the USEPA SWMM engine version 5.1.013 was used. It should be noted that Tetra Tech also used tools and features provided by the Innovyze InfoSWMM platform for model development purposes.

3.2 HYDRAULIC MODEL DEVELOPMENT

A hydrologic/hydraulic model, representing the existing collection system, was created by importing the City's GIS database. Field surveys, record drawings, and pump station evaluations were also used as the basis for pipe connectivity, pipe diameters, and elevations included in the model. Flow and rainfall monitoring completed from June 2017 through March 2019 provided calibration data for the model.

The dynamic wave routing method, which is integrated within the modeling software, calculates the pipe flows and depths in location and time. The dynamic wave routing method is required to represent surcharged and pressurized flow, backwater effects, storage in the pipe network, and networks that have parallel mains, all of which exist in Clearwater's collection system.

3.2.1 Manhole and Pipe Data

The model network was imported from the City's GIS database. The following pipe and manhole data were used in the model:

- Manhole location, rim elevation, and depth.
- Pipe size and invert elevations.
- Pipe connectivity.

A QA/QC review of the GIS data included the identification and correction of pipes with negative slopes and manholes with rim elevations below invert elevations, and removal of orphan pipes and nodes. Gaps in the GIS database were addressed with record drawings and data collected by the City's field survey conducted in early 2019. The network was actively modeled in the calibration simulations representing the existing conditions. All public pipes (i.e. gravity mains and force mains) and manholes in the system are included in the base model. **Figures 3-1, 3-2 and 3-3** present the gravity mains, pump stations, and force mains included in the City's hydraulic model. The hydraulic model networks for each basin with locations of private lift stations are in **Appendix M**.

Legend

- Marshall Street WRF Basin
- Lift Station Service Area Boundary
- Other WRF Basin Areas
- WRF Location

Hydraulic Model Network

- Marshall Street WRF Lift Station
- Lift Station with Alternate Route to WRF
- Private Lift Station
- Other City Lift Stations
- Manhole
- Gravity Main
- Force Main

Marshall Street WRF

LS-01 LS-02 LS-03 LS-04 LS-09 LS-10 LS-11 LS-12 LS-13 LS-14 LS-16 LS-17 LS-19 LS-20 LS-22 LS-23 LS-24 LS-26 LS-28 LS-29 LS-30 LS-31 LS-32 LS-35 LS-38 LS-39 LS-45 LS-49 LS-52 LS-56 LS-59 LS-61 LS-62 LS-65 LS-68 LS-73 LS-74 LS-80 LS-81 LS-84 LS-85 LS-B LS-V

261A3115 277B8150 285A1025 286B7000 295A4030 305B5731 313B1000 314A1300

Source: City of Clearwater Utilities Data

County of Pinellas, FDEP, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

P:\IER\41125\200-41125-18003\GIS\Maps\ModelFigures.aprx|FIGURE 3-1[betty.morris 3/12/2021]

TETRA TECH

0 3,000 Feet N

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

MARSHALL STREET WRF BASIN
HYDRAULIC MODEL NETWORK

FIGURE 3-1

Legend

- East WRF Basin
- Lift Station Service Area Boundary
- Other WRF Basin Areas
- WRF Location

Hydraulic Model Network

- East WRF Lift Station
- Lift Station with Alternate Route to WRF
- Private Lift Station
- Other City Lift Stations
- Manhole
- Gravity Main
- Force Main

Marshall Street WRF

East WRF

County of Pinellas, FDEP, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Source: City of Clearwater Utilities Data

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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

EAST WRF BASIN
HYDRAULIC MODEL NETWORK

FIGURE 3-2

P:\IER\41125\200-41125-18003\GIS\Maps\ModelFigures.aprx|FIGURE 3-2|betty.morris 3/12/2021

Legend

- Northeast WRF Basin
- Lift Station Service Area Boundary
- Other WRF Basin Areas
- WRF WRF Location

Hydraulic Model Network

- Northeast WRF Lift Station
- Private Lift Station
- Other City Lift Stations
- Manhole
- Gravity Main
- Force Main

LS-64 LS-53 LS-66 LS-55 LS-W LS-O LS-N LS-I LS-42 NEWRF LS-82 Northeast WRF LS-60 LS-72 212A5000 212A1090 LS-G LS-83 LS-27 LS-46 LS-48 LS-41 LS-50 LS-25 LS-15 LS-51 LS-54 LS-69 245A3000 LS-67 LS-M 254B8125 LS-F LS-K 253A4105 LS-H 264A4155 271B7155 271B7140 LS-J LS-A LS-58 272A5000 280B1000 LS-22 LS-74 LS-79 LS-U LS-Q 282B6080 179A3000

Source: City of Clearwater Utilities Data

County of Pinellas, FDEP, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

P:\IER\41125\200-41125-18003\GIS\Maps\ModelFigures.aprx|FIGURE 3-3|betty.morris 3/12/2021

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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

NORTHEAST WRF BASIN
HYDRAULIC MODEL NETWORK

FIGURE 3-3

3.2.2 Roughness Coefficients

Typically accepted Manning roughness coefficients by pipe material were used in the model. These typical values are shown in **Table 3-1**. Approximately 60-percent of the modeled mains were of unknown pipe material (based on the original GIS received from the City) data and have an assumed roughness coefficient of 0.013 similar to that for concrete.

Table 3-1. Typical Gravity Pipe Roughness Coefficients

Pipe Material	Manning Roughness Coefficient		Pipe Material	Manning Roughness Coefficient
Brick	0.015		Plastic	0.010
Cast Iron	0.012		Steel	0.012
Concrete	0.013		Vitrified Clay	0.014
Ductile Iron	0.013		Unknown	0.013
Lined Pipe	0.010			

Like gravity mains, roughness coefficients assigned to each force main are based on pipe material. However, the roughness coefficients of force mains are those used in the Hazen-Williams friction equation, not the Manning equation. These roughness coefficients reflect the level of smoothness, decreasing with increased surface roughness. Typical values of force main roughness coefficients are shown in **Table 3-2**.

Table 3-2. Typical Force Main Pipe Roughness Coefficients

Pipe Material	Hazen-Williams Roughness Coefficient		Pipe Material	Hazen-Williams Roughness Coefficient
Cast Iron	100		Ductile Iron	100
Concrete	100		Plastic	120

3.2.3 Lift Station and Force Main Data

Sixty-six (66) lift stations were included in the model out of seventy-three (73) public lift stations included in this analysis. The seven (7) lift stations not modeled are small stations (i.e. sump pumps, single customer, served a city park) of little impact on the overall model; however, the flows from these lift stations are included in the model.

Lift station evaluations, including drawdown tests, were conducted at all accessible lift stations to determine pump capacity under actual conditions. Original manufacturer's pump curves were located at forty-one (41) of the lift stations and were used for pump capacity if drawdown test data was not available. Drawdown testing was not conducted at a total of six (6) lift stations due to issues such as wet well accessibility. These lift stations include LS-4, LS-11, LS-17, LS-58, LS-76, and LS-82. Out of these lift stations, only LS-11 and LS-58 had pump curve data.

As-built drawings and GIS data were used to quantify force main diameters and lengths. Force main minor losses were estimated based on the average minor losses along force mains for which as-built drawings were available.

All but four (4) lift stations in the City's collection system have fixed discharge points. These four lift stations are modeled using their normal operational discharge point, which was verified and confirmed with the City. The following identifies the four lift stations and the discharge points applied in the model:

- LS-06 – the force main in the model is set up to discharge at MH 314A3170, located in the Marshall Street WRF basin; its alternative route (not modeled) would discharge at MH 305B8065 located in LS-07's area (within the Marshall Street WRF basin).
- LS-19 – the force main in the model is set up to discharge at MH 307B7015, located in the East WRF area; its alternative route (not modeled) would discharge into MH 296B5055 located in the Marshall Street WRF basin.
- LS-22 - the force main in the model is set up to discharge at MH 271B6005, located in the Northeast WRF area; its alternative route (not modeled) would discharge at MH 270A4200, located in the Marshall Street WRF basin.
- LS-55 - the force main in the model is set up to discharge at MH 178A3010, located in the LS-53 area (within the Northeast WRF basin); its alternative route (not modeled) would discharge at MH 189A3045, which is also located in the LS-53 area.

3.2.4 Lift Station Controls

The operating level used in the model at each pump station were taken from one of the following sources in order of priority, depending on data availability:

- Information gathered during the field inspections.
- Supervisory control and data acquisition (SCADA) data received from the City.
- Operating levels provided by the City.

3.2.5 Boundary Conditions at WRFs

Boundary conditions were developed by evaluating the time series data from WRF wet wells (Marshall Street and East) and as-built records for each of the three WRFs. The following boundary conditions were applied in the model:

- At the Marshall Street WRF, flows come into the plant through a baffle in the Splitter Box. At normal operating conditions, flow is conveyed through the baffle through seven 12-inch square openings. At high flow conditions, the baffle is overtopped and acts as a weir (elevation 0.75 feet or 4.7 feet from the floor of the Splitter Box). At the outlet of the Splitter Box, flow is conveyed through two 30-inch diameter openings into the bar screen channels above the wet well. A review of the level data from the influent pump station wet well indicates the well levels do not exceed this weir elevation. Downstream of the weir, the pump curves provided by the City were used to simulate the pump station's firm capacity, meaning that the largest pump is not in service. Therefore, the influent pump station's firm capacity acts as the boundary condition at the Marshall Street WRF.
- At the East WRF, all influent flows discharge to the wet well and are lifted into the WRF. In the model, a time series of wet well levels for the 2017-2019 metering period was applied at the wet well to serve as a boundary condition at the East WRF. Use of this data would include the changes in operating levels that occurred at the East WRF in October 2017. During the design storm scenarios, the boundary condition at the WRF changes to the influent pump station's firm capacity, which is simulated by using the pump curves provided by the City and having the largest pump out of service.
- At the Northeast WRF, all influent flows are pumped via stations located outside of the WRF. Each of the three (3) force mains discharge to the Influent Well at the head of the Bar Screens at the WRF. According

to the Northeast WRF as-built drawings, the water surface elevation at this location is 68.59 feet. For the model, a fixed boundary condition of 68.59 feet was applied at the Northeast WRF.

The firm capacity at the influent pump stations is used to evaluate system capacity and alternatives for design storm scenarios at the East and Marshall Street WRFs, so that their effect on the upstream hydraulic grade line can be evaluated. At the Northeast WRF, the boundary condition will be maintained as a fixed elevation, since the hydraulic performance at the WRF does not significantly affect the upstream collection system.

3.2.6 Catchment Delineations

After the hydraulic routing network was developed, the system hydrology was developed to generate flows throughout the modeled system. Catchment delineations were developed using the GIS parcel database. Each parcel was assigned to a model node (e.g. manhole). Parcels that were associated with a common model node were aggregated to reduce the overall number of sub-catchments in the model. The parcels in the model only serve as a visual aid to know how much area is tributary to each node. Aggregating them only makes it easier to see in the model from a smaller scale. The parcels were used to evenly distribute the amount of sewage contributed to the system based on the water use records, but these calculations were done outside of the model. The dry and wet weather flow parameters were developed through detailed analysis of the precipitation and flow metering data as discussed in the following sections.

3.2.7 Development of Dry Weather Flow Model Inputs

Dry weather flows for the model were developed by selecting periods of dry weather flow from the flow monitoring data (e.g. no rainfall) using the USEPA's Sanitary Sewer Overflow Analysis and Planning (SSOAP) toolbox. The toolbox was then used to create average weekday and weekend dry weather diurnal flow patterns based on the observed data. The toolbox was also used to disaggregate the observed flow data into base wastewater flow (BWWF, the diurnal portion of the hydrograph that varies throughout a day due to wastewater generation) and the seasonal groundwater infiltration (GWI, long-term infiltration due to changes in water table elevation and not associated with rainfall). The model includes both portions of the dry weather flow so that it varies both hourly during the day and monthly with seasonal changes in the groundwater table.

The average BWWF that was developed using the metered data was distributed using the average annual water use records for each meter. The annual average water use data was prorated according to the BWWF to achieve the correct total flow within each meter area. The GWI portion of the hydrograph is more associated with defects in the gravity system. The GWI flows were distributed within each meter area using the sub-catchment delineations. This spatial-distribution of flow metering results allows the model to represent observed data at a downstream location with a high-level of certainty in the upstream tributary system.

The same BWWF and GWI parameters developed through model calibration will also be used for design storm simulations to evaluate system capacity and alternatives.

3.2.8 Development of Wet Weather Hydrologic Model Inputs

Using SSOAP, wet weather flows were identified by bounding rainfall events, from the beginning of the rainfall to the end of the wet weather flow response. For each event, the dry weather flow portion of the hydrograph (as discussed in the previous section) was subtracted from the total observed hydrograph to identify the rainfall dependent inflow/infiltration (RDII) flow rates.

Within the model, wet weather flows are generated using the USEPA-SWMM RTK unit hydrograph approach. This methodology includes a set of parameters that define the shape and volume of three unit hydrographs which, when multiplied by the rainfall at each time increment and added together, generate the wet weather hydrograph for each time increment of rain. For modeling purposes, the unit hydrographs represent three typical wet weather hydrograph phases:

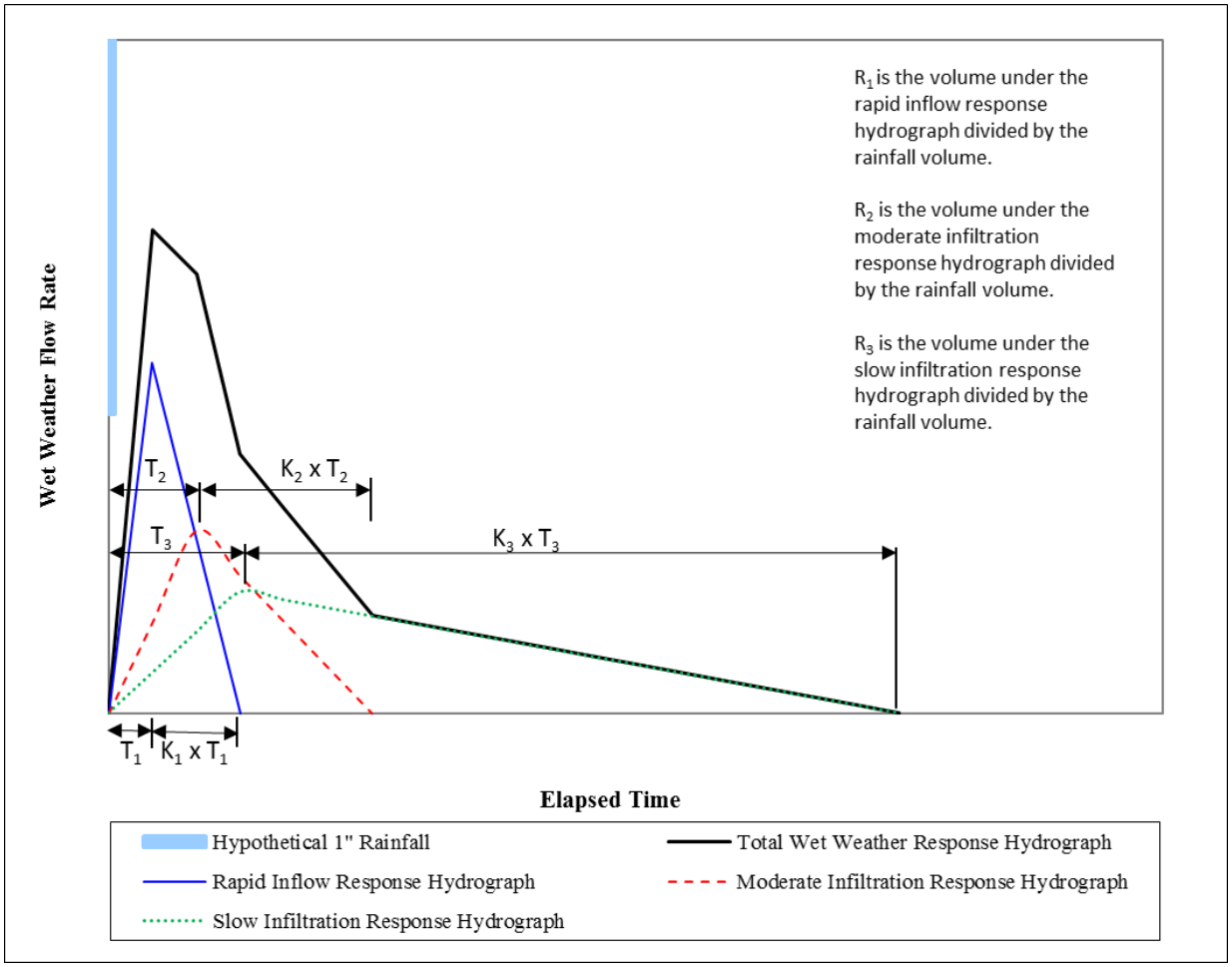
- Rapid inflow response (e.g. direct connections to the mains, such as downspouts and catch basins).
- Moderate infiltration response (e.g. inflow from footing drains).
- Slow infiltration response (e.g. infiltration from sources such as manhole and gravity main defects and footing drains).

Each unit hydrograph can be described by three variables, producing a total of nine variables for each flow monitoring location. **Figure 3-4** shows a schematic of the unit hydrograph phases and variables, including:

- Fraction of rainfall captured, R.
- Time to peak (in hours), T.
- Ratio of the recession limb time length to the time to peak, K.

The values of the RTK parameters were developed using tools provided by the SSOAP toolbox, and then refined in the model until the wet weather volume and the peak wet weather flow rate matched the measured values reasonably well. Although the unit hydrographs were developed from smaller, more frequent storms as compared to a larger design storm, a linear relationship is assumed between the flow rate and rainfall so the unit hydrograph is scalable to larger, more infrequent design storm type conditions. For example, if the distribution of the rainfall is held constant, twice the rainfall doubles the wet weather flow response.

Figure 3-4. Schematic of Unit Hydrograph Phases and Variables



3.3 FLOW CHARACTERIZATION

The City has an ongoing permanent flow metering program to collect data at strategic locations for use in ongoing I/I removal efforts. Flow data from twenty (20) permanent metering locations were used to calibrate the model. See **Appendix E** for location maps of each of the twenty (20) metering locations. Of the twenty (20) total meters used for calibration, nine (9) were located in the Marshall Street WRF Basin, four (4) were located in the East WRF Basin and seven (7) were located in the Northeast WRF Basin. The flow data was collected from June 2017 through March 2019, although not all meters were installed for the entire period of record. The locations of the meters are listed in **Table 3-3** and presented graphically in **Figure 3-5. Table 3-4** shows the population, housing units, and areas tributary to each meter. In **Table 3-4**, meters located upstream of other meters are indicated by indented Meter IDs. For example, meter M3C is located upstream of meter M3A. The incremental area, population, and housing units for each meter represents the service area that is directly served by the flow meter and does not pass through any upstream meters. The total area, population, and housing units represent the cumulative statistics that are tributary to each flow meter. Population and housing unit data were estimated using the Pinellas County's Trend Data Adjustments. The data provided population and housing projections based on traffic analysis zones (TAZ) for 2015 and 2045.

3.3.1 Precipitation and Flow Data Analysis

The precipitation and flow metering data were evaluated to characterize the dry and wet weather flow responses in the observed data. Both dry and wet weather periods were identified within the dataset to allow for statistical evaluations of each type of flow response. A total of up to sixty-four (64) dry weather days were identified that had reliable data and included at least two days in each month of the monitoring period. Wet weather events were identified based on rainfall volumes that occurred in the metering period. The intended use of the model is to simulate a design storm condition. As such, the model calibration should focus on events as close to the intended design condition as possible. Therefore, a minimum volume of 0.50-inches of precipitation was used to filter out small events from this analysis. A total of up to fifty-two (52) wet weather events were identified for this evaluation, although not all sites had data or reliable data for each event.

3.3.2 Summary of Dry Weather Flow Monitoring Results

The average dry weather flow observed at each monitoring location is listed in **Table 3-5**. Based on Tetra Tech's experience in similar flow monitoring and I/I investigations, a typical range for dry weather flows lies between 70 and 140 gallons per capita per day (gpcd).

Five (5) sites had dry weather flow rates less than 70 gpcd (M3A, LS-24, E1A, LS-58-E and LS-53) and eight (8) sites had flows greater than 140 gpcd (LS-16, LS-14, LS-45, LS-11, E2A, CL-Nash, E3A2, and LS46). The sites with rates less than 70 gpcd were reviewed to determine if the flow data, area delineations, and populations estimates were accurate. Each parameter was confirmed, and the dry weather flow estimate is considered correct.

The four (4) Marshall Street WRF basin sites with dry weather flow rates greater than 140 gpcd are all located on the Beachside, west of the Memorial Causeway Bridge. These mains are likely below sea level and it is expected that these areas have a higher rate of normal groundwater infiltration. Site E3A2 receives flow from the diversion structure located at Alligator Creek upstream of LS-58. This lift station has a total of 3 pumps and based on a review of list station runtimes in 2017 and 2018, Pump #2 exhibited significantly longer runtimes, and fewer starts than the other pumps. This condition may be indicative of a reduced pumping capacity for pump #2. When pump #2 was operating in 2017-2018, the lift station pumping capacity may have been less than intended operating conditions. It is suspected that this condition led to some bypasses at the diversion structure leading to increased dry and wet weather flows in the E3A2 system. The CL-Nash meter serves only a small trailer park development that is known by the City to have high levels of I/I even during dry weather conditions. Sites E2A and LS-46 are only slightly above the 140 gpcd, these sites could simply be more commercial than other and have a higher baseflow than average.

Table 3-3. Flow Monitoring Locations

Meter ID	Alt. ID	Manhole IDs at Meter Location	Location	Pipe Diameter, inches	Tributary Meter(s)
Marshall Street WRF Basin					
M3A	-	MH 269B6025	1250 Holt Ave.	30	M3C
M3C	M1C	MH 287B8005	Along Lady Mary Dr.	24	
M1A	-	MH 269A3090	1132-1170 Marshall St.	24	
LS-24	M4A		1351 Sunset Point Rd.	12	
LS-16	M2A	MH 286B1250	100 Pierce St.	12	
LS-14	M2B	MH 285A3090	501-599 Parkway Dr.	18	
LS-20	M2C	MH 267B8090	20 Island Way.	15	
LS-45	M2H	MH 303B5015	1371 Gulf Blvd.	24	
LS-11	-			18	
East WRF Basin					
E1A	-	MH 301A1025	Along Old Tampa Bay, South Bay Ave (CR-31)	30	
E2A	-	MH 292A2110	Along Gulf to Bay Blvd. West off-ramp from US-19 South to Gulf to Bay Blvd.	15	CL Nash St
CL Nash St	-	MH 290A2010	Nash Street between South Maywood Ave. and Blvd Estates Mobile Home Park.	8	
E3A2	-	MH 292A4120	Along South Bayshore Blvd. Near intersection of South Bayshore Blvd. and Gulf to Bay Blvd.	36	
Northeast WRF Basin					
LS-58-W1	NE6	MH 274A2020	Corner of Kapok Kove Circle and Kapok Circle	36	LS-58-W2, LS-58-W3
LS-58-W2	-	MH 273A2070	Along CSX RR, East of US-19	30	LS-58-W3
LS-58-W3	-	MH 272A1020	The Long Center SE of Belcher Rd at Logan St	30	
LS-58-E	NE5	MH 274A4010	Near the intersection of North McMullen Booth Rd and One Kapok Terrace Condos	18	
LS-46	NE4D	MH 223A2040	Intersection of Eastland Blvd. and North McMullen Booth Rd.	24	
LS-42	NE4	MH 210A4005	Near the intersection of North McMullen Booth Rd. and Rigsby Ln.	24	
LS-53	NE1	MH 179A1075	Near Oak Creek Dr. East and LS-53	18	

Table 3-4. Flow Monitoring Tributary Areas

Meter ID	Alt. ID	Incremental Area, ac	Total Area, ac	Incremental Population	Total Population	Incremental Housing Units	Total Housing Units
Marshall Street WRF Basin		**423**	**5,585**	**3,410**	**41,655**	**1,869**	**25,334**
M3A	-	1,155	1,846	8,621	16,404	4,325	8,777
M3C	M1C	692	692	7,783	7,783	4,452	4,452
M1A	-	867	867	4,507	4,507	2,961	2,961
LS-24	M4A	856	856	9,216	9,216	3,890	3,890
LS-16	M2A	508	508	1,032	1,032	1,261	1,261
LS-14	M2B	155	155	644	644	1,276	1,276
LS-20	M2C	286	286	2,453	2,453	2,430	2,430
LS-45	M2H	291	291	2,251	2,251	691	691
LS-11	-	352	352	1,737	1,737	1,595	1,595
East WRF Basin		**72**	**4,266**	**230**	**28,778**	**6**	**17,784**
E1A	-	3,136	3,136	23,358	23,358	13,683	13,683
E2A	-	612	630	3,467	3,644	2,322	2,463
CL Nash St	-	18	18	177	177	141	141
E3A2	-	428	428	1,545	1,545	1,632	1,632
Northeast WRF Basin		**473**	**6,890**	**2,094**	**42,043**	**291**	**22,261**
LS-58-W1	NE6	984	3,371	6,729	20,348	4,108	11,307
LS-58-W2	-	974	2,388	6,211	13,619	3,528	7,199
LS-58-W3	-	1,413	1,413	7,408	7,408	3,671	3,671
LS-58-E	NE5	319	319	2,233	2,233	604	604
LS-46	NE4D	438	438	3,083	3,083	1,799	1,799
LS-42	NE4	1,282	1,282	7,042	7,042	4,004	4,004
LS-53	NE1	962	962	7,241	7,241	4,256	4,256

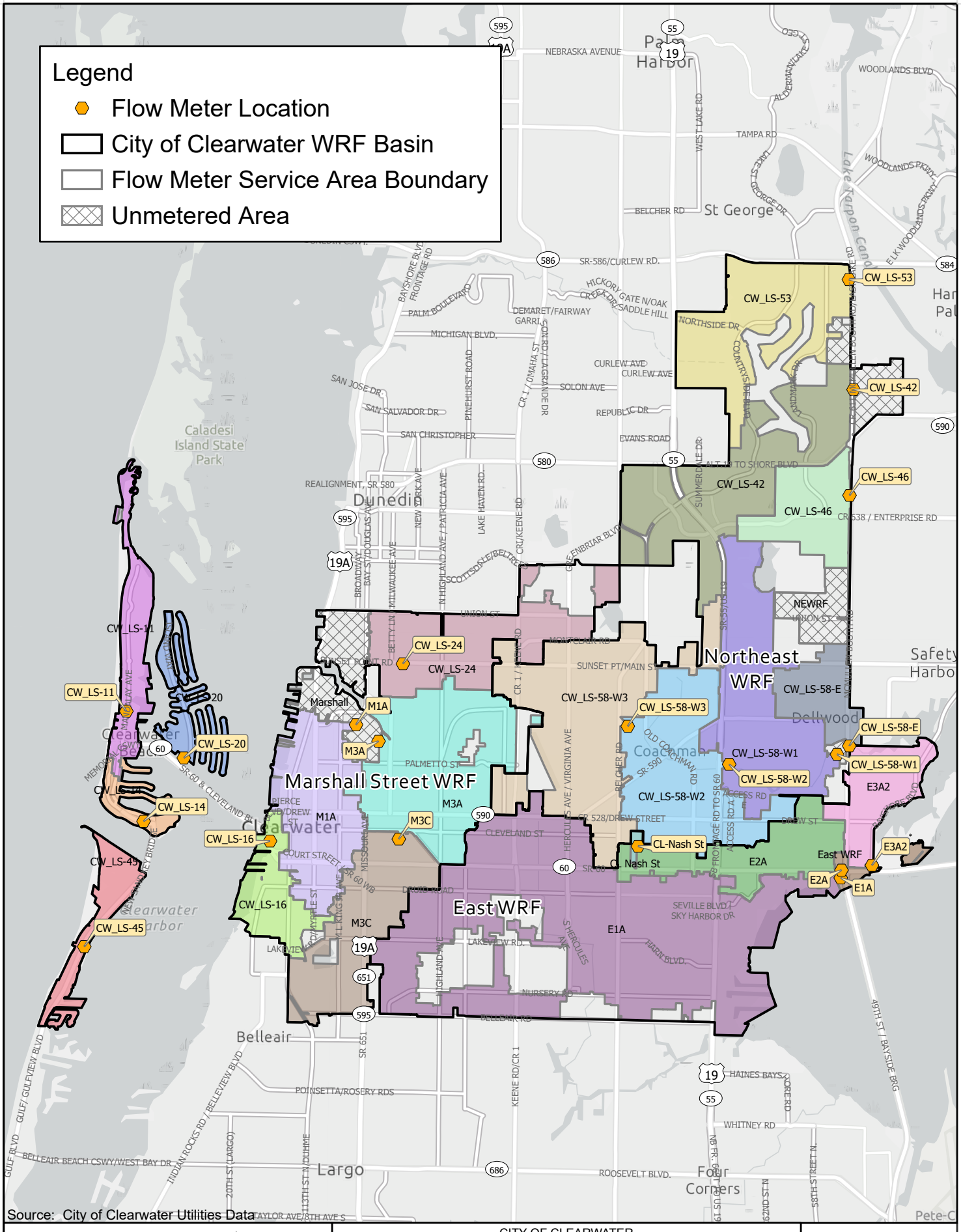

Legend
Flow Meter Location
City of Clearwater WRF Basin
Flow Meter Service Area Boundary
Unmetered Area
CW_LS-53
CW_LS-42
CW_LS-46
CW_LS-24
CW_LS-11
CW_LS-20
CW_LS-14
CW_LS-16
CW_LS-45
CW_LS-58-W3
CW_LS-58-E
CW_LS-58-W1
CW_LS-58-W2
CL-Nash St
M1A
M3A
M3C
E2A
E3A2
E1A
Northeast WRF
Marshall Street WRF
East WRF
NEWRF
Dunedin
Clearwater
Largo
Belleair
Safety Harbor
Palm Harbor
St George
Caladesi Island State Park
Dellwood
Coachman
Four Corners
Haines Bays
Source: City of Clearwater Utilities Data
TETRA TECH
N
0
1.25
Miles
CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
FLOW METER LOCATIONS
FIGURE 3-5
P:\IER\41125\200-41125-18003\GIS\Maps\ModelFigures.aprx[alex.montalvo 12/27/2019]

Table 3-5. Average Dry Weather Flow

Meter ID	Alt ID	Average DWF, MGD	Average DWF, gpcd
Marshall Street WRF Basin			
M3A	-	1.08	66
M1C	M1C	0.82	105
M1A	-	0.43	95
LS-24	M4A	0.40	43
LS-16	M2A	0.51	494
LS-14	M2B	0.65	1,010
LS-20	M2C	0.27	94
LS-45	M2H	0.66	293
LS-11	-	0.80	460
East WRF Basin			
E1A	-	1.07	46
E2A	-	0.61	168
CL Nash St	-	0.08	451
E3A2	-	0.53	343
Northeast WRF Basin			
LS-58-W1	NE6	2.30	113
LS-58-W2	-	1.25	92
LS-58-W3	-	0.65	88
LS-58-E	NE5	0.15	67
LS-46	NE4D	0.46	149
LS-42	NE4	0.83	118
LS-53	NE1	0.28	39

3.3.3 Summary of Precipitation Events

Precipitation data was provided as part of the flow metering data for each site. A standalone database of precipitation data and rain gauge locations was not available and therefore it was not possible to quantify the precipitation volumes and patterns across the service area. However, the precipitation data was evaluated at a single flow metering location within each WRF basin to characterize the size and distribution of events in the service area.

Table 3-6 provides a summary of the thirty (30) largest rainfall events that occurred at each rain gauge. **Figures 3-6, 3-7 and 3-8** present the data in graphical format. The table includes the total event volume and peak volumes for a range of intra-event durations within each event. These intra-event volumes show if there were any intense periods within a larger event that could have led to capacity exceedances and/or SSOs.

A statistical evaluation was performed to identify the return frequency for each event and intra-event period. Depth-duration frequency data for the City of Clearwater was obtained from NOAA Atlas' 14 website (https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html). In **Table 3-6**, the values in parentheses after the event or intra-event volumes are the approximate return frequencies for that volume and duration. For the 2017-2019 flow monitoring period, the City experienced four (4) larger events with return frequencies of one (1) to three (3) years.

Table 3-6. Summary of Precipitation Events and Return Frequencies for the 2017 -2019 Monitoring Period

Marshall Street WRF Basin (Site M1A)						East WRF Basin (Site E1A)						Northeast WRF Basin (Site LS53)					
Rainfall Event	Total Volume in. (yr.)	Peak 1-Hour in. (yr.)	Peak 3-Hour in. (yr.)	Peak 6-Hour in. (yr.)	Peak 24-Hour in. (yr.)	Rainfall Event	Total Volume in. (yr.)	Peak 1-Hour in. (yr.)	Peak 3-Hour in. (yr.)	Peak 6-Hour in. (yr.)	Peak 24-Hour in. (yr.)	Rainfall Event	Total Volume in. (yr.)	Peak 1-Hour in. (yr.)	Peak 3-Hour in. (yr.)	Peak 6-Hour in. (yr.)	Peak 24-Hour in. (yr.)
06/02/17	1.06 (0.2)	1.01 (0.2)	-	-	-	06/02/17	5.43 (0.8)	1.25 (0.2)	1.51 (0.2)	1.73 (0.4)	2.28 (0.6)	07/17/18	2.38 (0.4)	0.58 (0.1)	0.71 (0.1)	0.71 (0.1)	1.33 (0.4)
06/03/17	4.32 (0.8)	0.66 (0.1)	0.86 (0.1)	0.97 (0.2)	2.04 (0.5)	06/11/17	1.02 (0.2)	1.01 (0.2)	-	-	-	07/22/18	1.13 (0.3)	0.44 (0.1)	0.53 (0.1)	0.69 (0.1)	0.90 (0.3)
07/14/17	1.59 (0.4)	0.64 (0.1)	0.64 (0.1)	0.65 (0.1)	0.92 (0.3)	06/12/17	2.75 (0.5)	1.07 (0.2)	1.22 (0.2)	1.23 (0.2)	2.16 (0.6)	07/30/18	2.15 (0.4)	0.47 (0.1)	0.65 (0.1)	0.66 (0.1)	0.92 (0.3)
07/18/17	2.61 (0.7)	1.88 (0.9)	2.59 (0.9)	2.59 (0.8)	2.60 (0.7)	07/14/17	0.97 (0.3)	0.51 (0.1)	0.51 (0.1)	0.51 (0.1)	0.92 (0.3)	08/05/18	1.04 (0.4)	0.44 (0.1)	0.44 (0.1)	0.54 (0.1)	0.55 (0.3)
07/22/17	2.29 (0.6)	1.28 (0.2)	1.80 (0.4)	1.80 (0.4)	2.06 (0.6)	07/18/17	2.61 (0.7)	1.88 (0.9)	2.59 (0.9)	2.59 (0.8)	2.60 (0.7)	08/10/18	1.62 (0.5)	1.19 (0.2)	1.41 (0.2)	1.43 (0.3)	1.58 (0.4)
07/29/17	2.45 (0.6)	1.10 (0.2)	1.10 (0.2)	1.12 (0.2)	2.29 (0.6)	07/22/17	2.29 (0.6)	1.28 (0.2)	1.80 (0.4)	1.80 (0.4)	2.06 (0.6)	08/12/18	0.27 (0.1)	0.18 (0.1)	0.19 (0.1)	0.25 (0.1)	-
08/02/17	1.25 (0.3)	0.53 (0.1)	1.05 (0.2)	1.19 (0.2)	-	07/29/17	2.45 (0.6)	1.1 (0.2)	1.10 (0.2)	1.12 (0.2)	2.29 (0.6)	08/19/18	1.28 (0.3)	0.81 (0.2)	0.94 (0.2)	0.94 (0.2)	-
08/12/17	1.22 (0.2)	1.06 (0.2)	-	-	-	08/02/17	1.25 (0.3)	0.53 (0.1)	1.05 (0.2)	1.19 (0.2)	-	08/21/18	0.45 (0.4)	0.26 (0.1)	0.27 (0.1)	0.27 (0.1)	0.29 (0.1)
08/26/17	3.13 (0.6)	0.80 (0.2)	1.13 (0.2)	1.79 (0.4)	2.04 (0.5)	08/12/17	1.22 (0.2)	1.06 (0.2)	-	-	-	08/24/18	5.63 (1.8)	1.99 (1.0)	2.22 (0.7)	2.63 (0.8)	2.86 (0.8)
09/10/17	4.79 (2.7)	1.02 (0.2)	2.29 (0.7)	3.58 (2.3)	-	08/26/17	3.13 (0.6)	0.8 (0.2)	1.13 (0.2)	1.79 (0.4)	2.04 (0.5)	08/28/18	3.58 (0.4)	0.88 (0.2)	1.07 (0.2)	1.21 (0.2)	1.51 (0.4)
09/29/17	1.41 (0.3)	1.06 (0.2)	1.39 (0.2)	1.40 (0.3)	-	09/10/17	4.79 (2.7)	1.02 (0.2)	2.29 (0.7)	3.58 (2.3)	-	09/05/18	3.00 (0.6)	1.05 (0.2)	1.23 (0.2)	1.52 (0.3)	1.98 (0.5)
10/22/17	2.37 (0.6)	1.03 (0.2)	1.86 (0.4)	2.27 (0.6)	2.35 (0.6)	09/29/17	1.41 (0.3)	1.06 (0.2)	1.39 (0.2)	1.40 (0.3)	-	09/12/18	1.28 (0.2)	1.20 (0.2)	-	-	-
01/28/18	2.91 (0.8)	1.06 (0.2)	2.45 (0.8)	2.63 (0.8)	-	10/22/17	2.37 (0.6)	1.03 (0.2)	1.86 (0.4)	2.27 (0.6)	2.35 (0.6)	09/20/18	0.55 (0.2)	0.34 (0.1)	0.40 (0.1)	0.41 (0.1)	-
02/04/18	1.96 (0.5)	1.02 (0.2)	1.80 (0.4)	1.94 (0.5)	-	01/09/18	1.01 (0.2)	0.43 (0.1)	0.91 (0.1)	-	-	09/23/18	0.52 (0.3)	0.34 (0.1)	0.34 (0.1)	0.34 (0.1)	0.34 (0.2)
04/15/18	1.34 (0.2)	1.12 (0.2)	1.24 (0.2)	-	-	01/28/18	2.91 (0.8)	1.06 (0.2)	2.45 (0.8)	2.63 (0.8)	-	09/26/18	0.30 (0.1)	-	-	-	-
05/13/18	1.88 (0.5)	0.72 (0.1)	0.90 (0.1)	1.30 (0.2)	1.85 (0.5)	02/04/18	1.96 (0.5)	1.02 (0.2)	1.80 (0.4)	1.94 (0.5)	-	10/09/18	0.87 (0.3)	0.28 (0.1)	0.28 (0.1)	0.43 (0.1)	0.86 (0.3)
05/19/18	1.11 (0.3)	0.46 (0.1)	0.52 (0.1)	0.56 (0.1)	0.67 (0.3)	04/10/18	0.99 (0.3)	0.28 (0.1)	0.43 (0.1)	0.53 (0.1)	-	10/26/18	0.47 (0.1)	0.35 (0.1)	0.35 (0.1)	0.43 (0.1)	-
05/30/18	1.07 (0.2)	0.66 (0.1)	0.91 (0.1)	-	-	04/15/18	1.34 (0.2)	1.12 (0.2)	1.24 (0.2)	-	-	11/02/18	0.92 (0.3)	0.46 (0.1)	0.55 (0.1)	0.59 (0.1)	-
07/02/18	2.61 (0.7)	1.83 (0.8)	1.84 (0.4)	1.84 (0.4)	1.85 (0.5)	05/13/18	1.88 (0.5)	0.72 (0.1)	0.90 (0.1)	1.30 (0.2)	1.85 (0.5)	12/04/18	0.36 (0.1)	-	-	-	-
07/19/18	1.31 (0.4)	0.37 (0.1)	0.47 (0.1)	0.49 (0.1)	0.93 (0.3)	05/19/18	1.11 (0.3)	0.46 (0.1)	0.52 (0.1)	0.56 (0.1)	0.67 (0.3)	12/09/18	2.71 (0.8)	2.31 (2.8)	2.69 (1.0)	2.69 (0.8)	-
07/29/18	2.49 (0.6)	1.10 (0.2)	1.17 (0.2)	1.18 (0.2)	1.24 (0.4)	05/30/18	1.07 (0.2)	0.66 (0.1)	0.91 (0.1)	-	-	12/14/18	2.69 (0.8)	0.51 (0.1)	1.06 (0.2)	1.57 (0.3)	-
08/11/18	3.24 (1.0)	1.91 (0.9)	3.16 (2.7)	3.20 (1.3)	-	08/24/18	1.08 (0.4)	0.51 (0.1)	0.51 (0.1)	0.51 (0.1)	0.83 (0.3)	12/19/18	4.55 (0.9)	1.42 (0.4)	2.70 (1.0)	3.15 (1.1)	4.14 (1.1)
08/28/18	3.05 (0.8)	1.32 (0.3)	1.51 (0.2)	1.67 (0.4)	2.77 (0.8)	08/28/18	5.07 (1.0)	1.98 (1.0)	2.86 (1.5)	3.06 (1.0)	4.7 (2.1)	01/04/19	0.76 (0.1)	0.52 (0.1)	-	-	-
09/05/18	1.35 (0.4)	0.75 (0.1)	0.78 (0.1)	0.87 (0.2)	1.01 (0.3)	09/02/18	1.43 (0.2)	0.56 (0.1)	0.57 (0.1)	0.57 (0.1)	0.60 (0.3)	01/19/19	0.42 (0.1)	0.24 (0.1)	0.29 (0.1)	-	-
10/09/18	1.35 (0.4)	0.40 (0.1)	0.55 (0.1)	0.75 (0.1)	1.21 (0.4)	09/23/18	2.16 (0.5)	1.23 (0.2)	1.27 (0.2)	1.27 (0.2)	1.99 (0.5)	01/24/19	0.79 (0.2)	0.46 (0.1)	0.77 (0.1)	0.78 (0.1)	-
12/09/18	2.53 (0.7)	1.98 (1.0)	2.50 (0.9)	2.51 (0.8)	-	12/09/18	2.53 (0.7)	1.98 (1.0)	2.5 (0.9)	2.51 (0.8)	-	01/27/19	2.57 (0.7)	0.38 (0.1)	0.96 (0.2)	1.52 (0.3)	-
12/14/18	2.80 (0.7)	0.61 (0.1)	1.15 (0.2)	1.62 (0.3)	2.77 (0.8)	12/14/18	2.8 (0.7)	0.61 (0.1)	1.15 (0.2)	1.62 (0.3)	2.77 (0.8)	02/02/19	0.49 (0.1)	0.21 (0.1)	0.37 (0.1)	-	-
12/19/18	4.89 (0.9)	1.33 (0.3)	2.90 (1.6)	3.35 (1.6)	4.45 (1.6)	12/19/18	4.89 (0.9)	1.33 (0.3)	2.90 (1.6)	3.35 (1.6)	4.45 (1.6)	02/12/19	1.27 (0.3)	1.04 (0.2)	1.04 (0.2)	1.13 (0.2)	-
01/27/19	1.89 (0.5)	0.31 (0.1)	0.72 (0.1)	1.17 (0.2)	-	01/27/19	1.89 (0.5)	0.31 (0.1)	0.72 (0.1)	1.17 (0.2)	-	02/26/19	4.29 (1.0)	1.47 (0.4)	2.59 (0.9)	3.54 (2.2)	4.18 (1.1)
02/26/19	2.89 (0.8)	0.97 (0.2)	1.77 (0.4)	2.43 (0.7)	2.82 (0.8)	02/26/19	3.14 (0.8)	0.72 (0.1)	1.60 (0.3)	2.61 (0.8)	3.04 (0.8)	03/04/19	1.22 (0.2)	1.20 (0.2)	-	-	-

Data presented in **Table 3-6** represents the largest 30 precipitation events that occurred in each of the three WRF basins for the 2017-2019 flow monitoring period. For each rainfall event, the total event volume and rolling peak 1-hour, 3-hour, 6-hour, and 24-hour volumes are provided (all measured in inches of rainfall). The values listed in parenthesis indicate the return frequency for the event or intra-event period. Return frequency data was obtained from NOAA Atlas 14 data for the City of Clearwater. Results presented in **Table 3-6** are also plotted visually in **Figure 3-6** through **Figure 3-8**.

Figure 3-6. Marshall Street WRF Basin (Site M1A) – Summary of Depth vs Duration Return Frequency

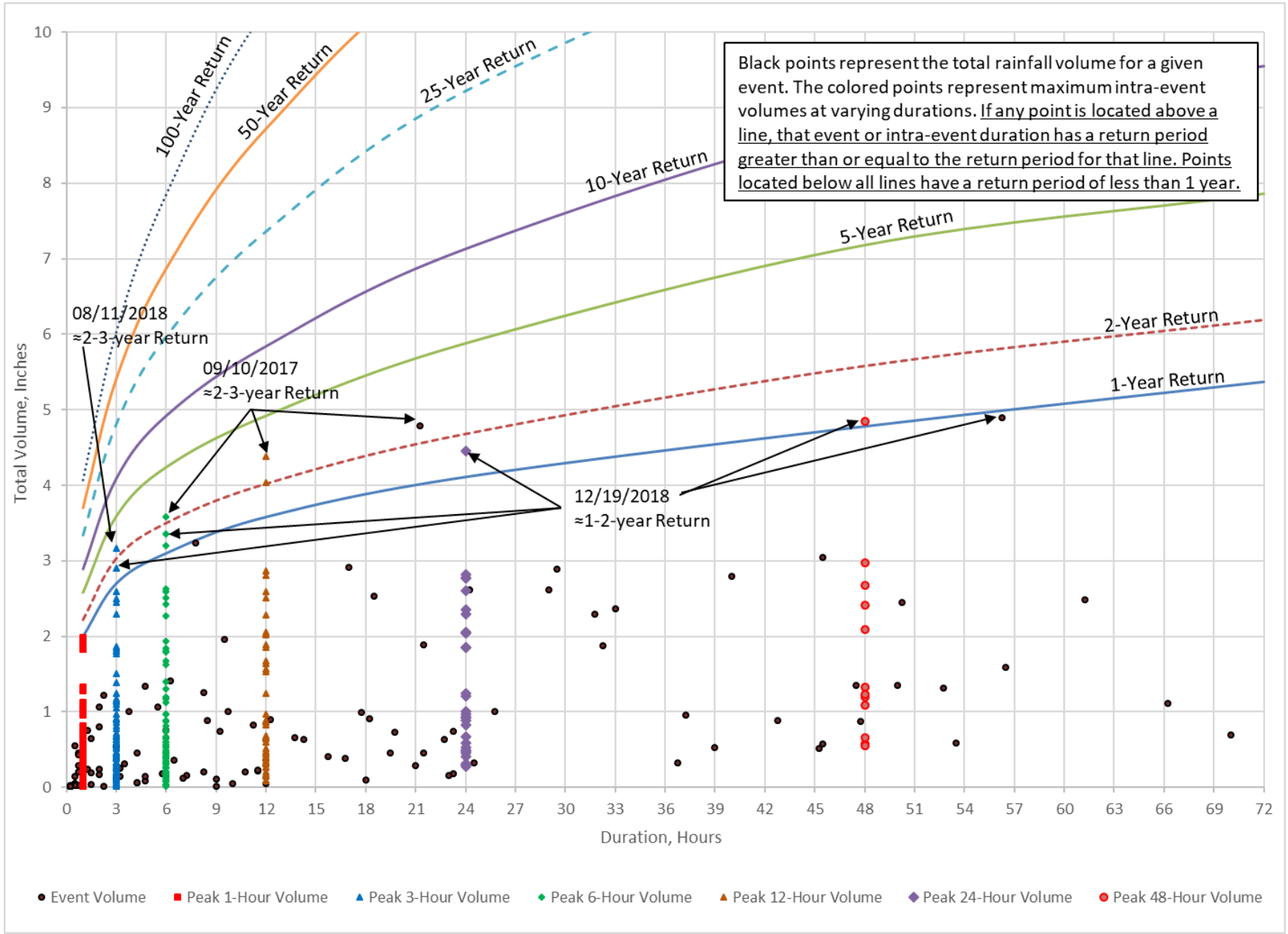


Figure 3-7. East WRF Basin (Site E1A) – Summary of Depth vs Duration Return Frequency

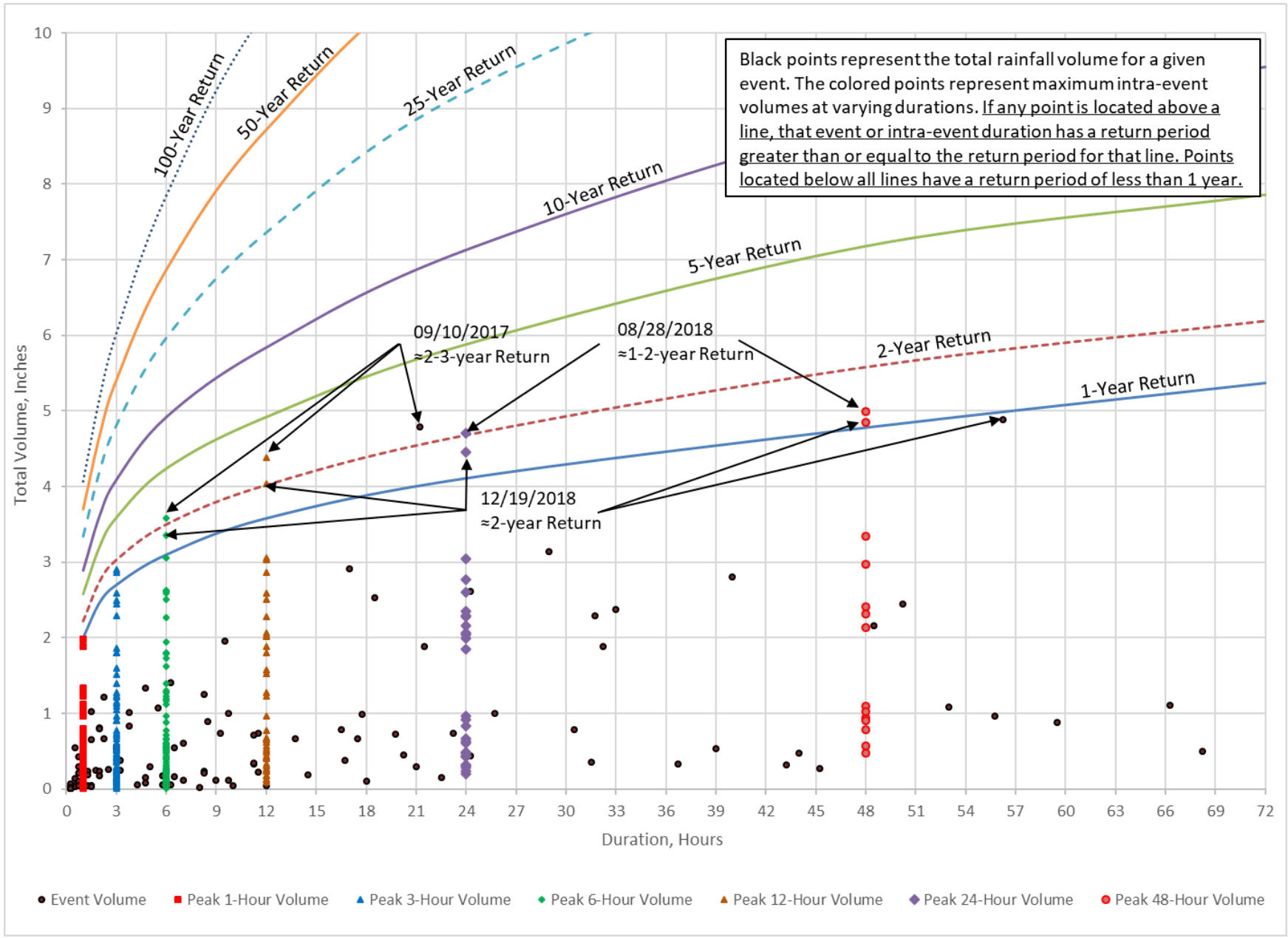
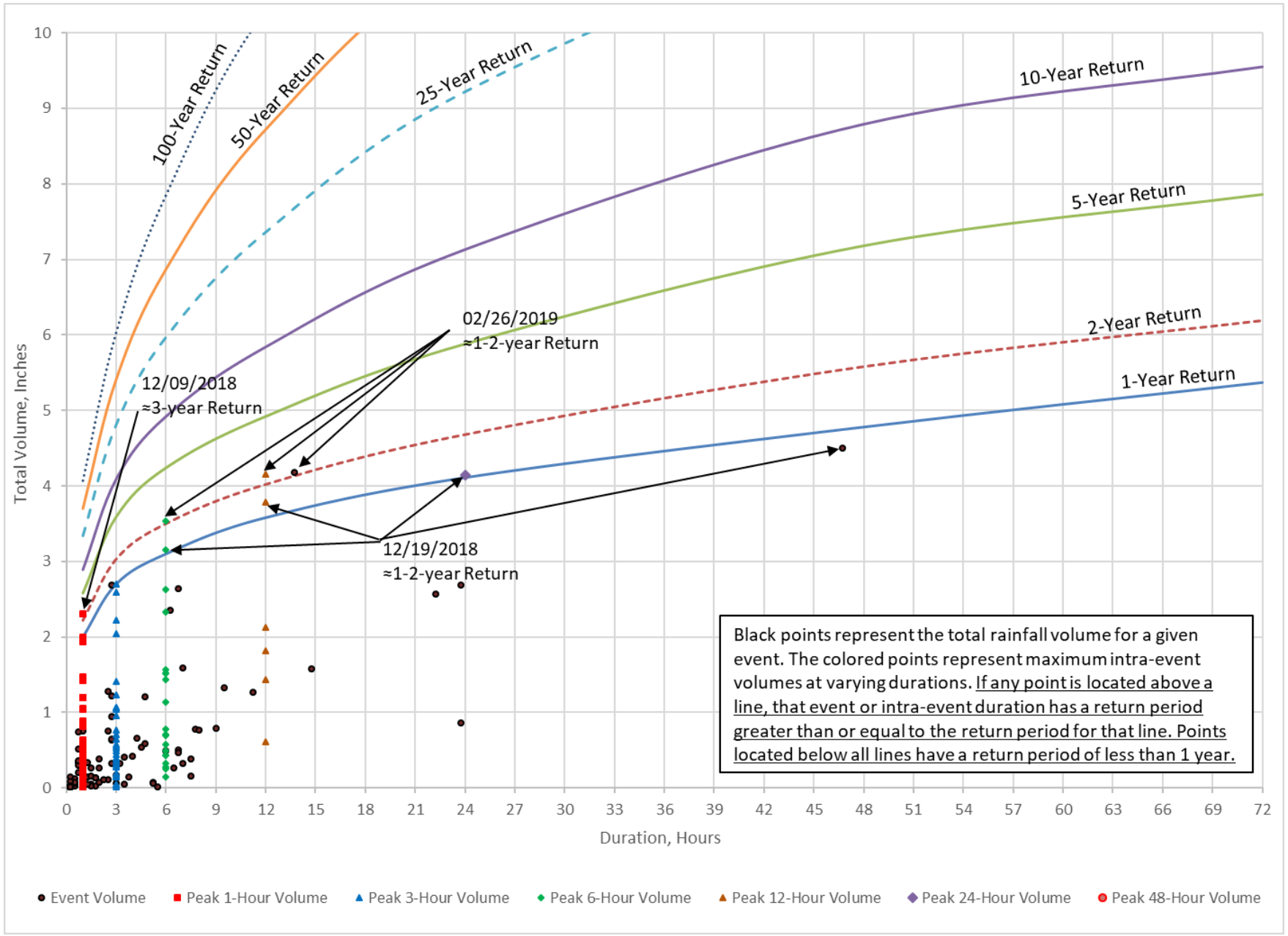


Figure 3-8. Northeast WRF Basin (Site LS53) – Summary of Depth vs Duration Return Frequency



Having larger storms during the flow monitoring period such as these generally aid in making a more accurate model because the extrapolation to a design storm event is smaller.

The Marshall Street WRF basin precipitation analysis evaluated rainfall data provided with site M1A, covering the period of June 2017 to March 2019. The following larger rainfall events occurred in this service area:

- Hurricane Irma hit the City of Clearwater on September 10, 2017, with a total volume of 4.79 inches (approximately a three-year return). The maximum return frequency for the intra-event durations was just over three (3) years for the twelve-hour duration.
- The August 11, 2018 event experienced 3.24-inches of rainfall in 7.75 hours. This short duration event had three-hour and six-hour intra-event duration return frequencies of just over two (2) years and one (1) year, respectively.
- The December 19, 2018 event experienced 4.89 inches of rainfall in just over fifty-six (56) hours. The total event and intra-event durations equated to a one to two-year return frequency.

The East WRF basin precipitation analysis evaluated rainfall data provided with site E1A, covering the period of June 2017 to March 2019. The following larger rainfall events occurred in the East WRF basin:

- Hurricane Irma hit the City of Clearwater on September 10, 2017, with a total volume of 4.79 inches (approximately a three-year return). The maximum return frequency for the intra-event durations was just over three years for the twelve-hour duration. The precipitation data for this event at site E1A was the same as data provided for Site M1A.
- The August 28, 2018 event had a large volume (5.07 inches) occur in just of three days. In general, the event was a one to two-year storm.
- The December 19, 2018 event experienced 4.89 inches of rainfall in just over fifty-six (56) hours. The total event and intra-event durations equated to a one to two-year return frequency. The precipitation data for this event at site E1A was the same as data provided for Site M1A.

The Northeast WRF basin precipitation analysis evaluated rainfall data provided with site LS-53, covering the period of June 2017 to March 2019. The following larger rainfall events occurred in the East WRF basin. Note flow meters were not installed in the Northeast WRF Basin during hurricane Irma.

- The December 9, 2018 event experienced 2.71 inches of rainfall in just over eighteen hours. The event had an intense one hour burst of rainfall totaling 2.31 inches, almost a three-year return.
- The December 19, 2018 event experienced 4.55 inches of rainfall in just over fifty-eight (58) hours. The total event and intra-event durations equated to a one to two-year return frequency.
- The February 26, 2019 event experience 4.29 inches of rainfall in approximately thirty-three (33) hours. This event equates to approximately a one to two-year return event.

3.3.4 Summary of Wet Weather Flow Monitoring Results

The wet weather response from a metered area can be quantified in terms of its peak flow and the volume of rainfall that entered the collection system and became I/I. A peaking factor was calculated for each observed wet weather event by dividing the peak hour flow by the average dry weather flow; generally, a peaking factor greater than five (5) is an indicator that the given site has a significant inflow-type source(s). A percent capture was calculated for each measured event by dividing the volume of I/I by the total volume of rainfall over the tributary area. Rainfall-weighted average peaking factors and percent captures calculated for each site are presented in **Table 3-7**.

Table 3-7. Rainfall-Weighted Peaking Factors and Percent Captures

Meter ID	Alternate ID	Rainfall-Weighted Peaking Factor	Rainfall-Weighted Percent Capture
Marshall Street WRF Basin			
M3A	-	2.28	0.6 %
M3C	M1C	2.22	0.8 %
M1A	-	2.12	0.3 %
LS-24	M4A	2.07	0.5 %
LS-16	M2A	2.14	0.9 %
LS-14	M2B	1.32	1.1 %
LS-20	M2C	5.80	2.3 %
LS-45	M2H	1.57	0.6 %
LS-11	-	1.74	1.0 %
East WRF Basin			
E1A	-	1.79	0.2 %
E2A	-	1.86	0.7 %
CL Nash St	-	1.58	0.8 %
E3A2	-	2.53	2.0 %
Northeast WRF Basin			
LS-58-W1	NE6	2.30	1.1 %
LS-58-W2	-	2.79	1.0 %
LS-58-W3	-	2.91	0.6 %
LS-58-E	NE5	2.23	0.7 %
LS-46	NE4D	1.82	0.7 %
LS-42	NE4	2.17	0.5 %
LS-53	NE1	1.99	0.2 %

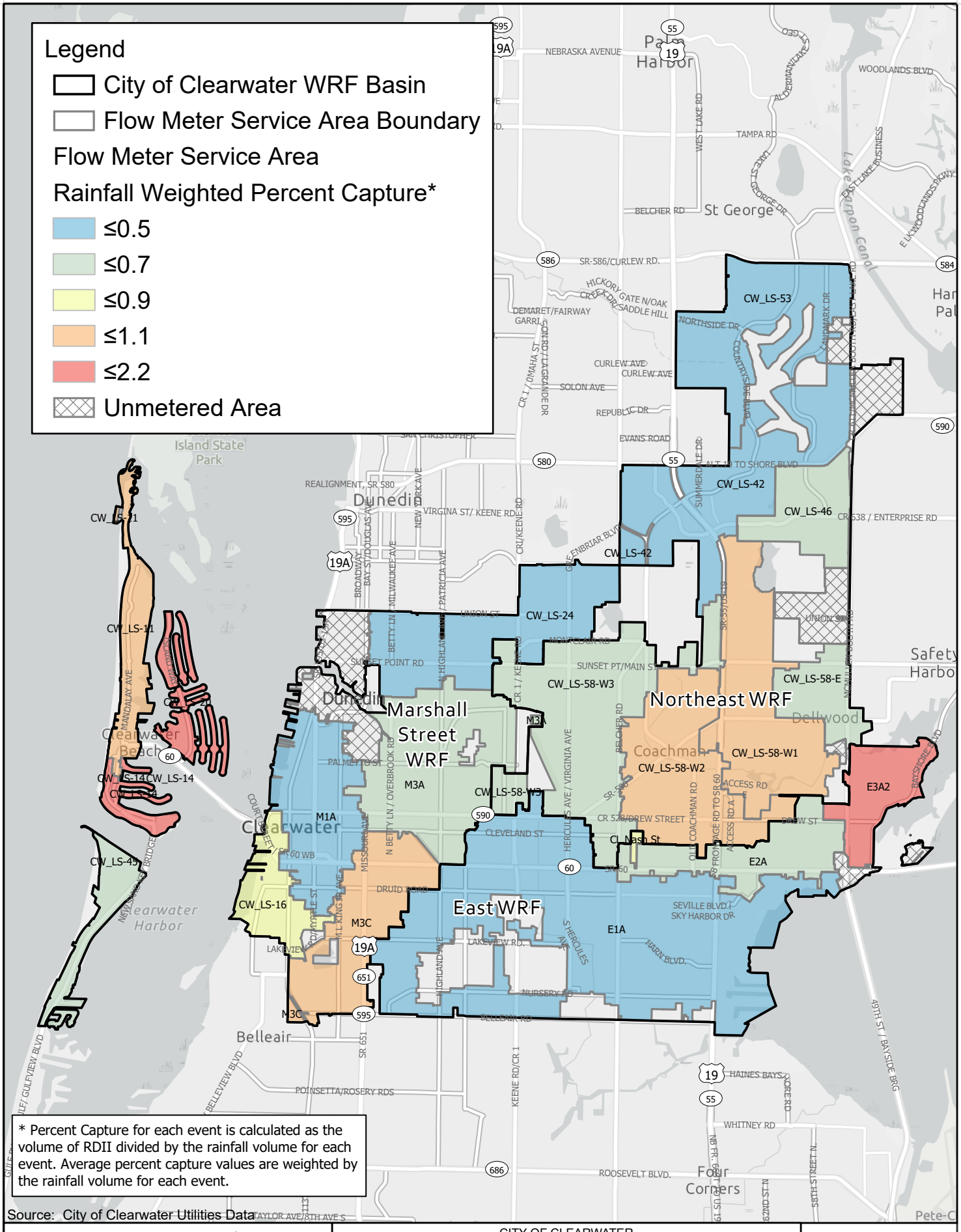
As **Table 3-7** shows, all metered areas except one had a rainfall-weighted peaking factor less than 3.0, meaning that the systems do not have a high response to rainfall over a short period of time. The area tributary to meter LS-20 (tributary to the Marshall Street WRF), had a rainfall-weighted peaking factor of 5.8 and had the highest percent capture (2.2 percent), the only site with a percent capture greater than two percent. This site only had one month of data that was considered reliable, therefore, further flow monitoring is suggested before any capital improvement projects are recommended in this area.

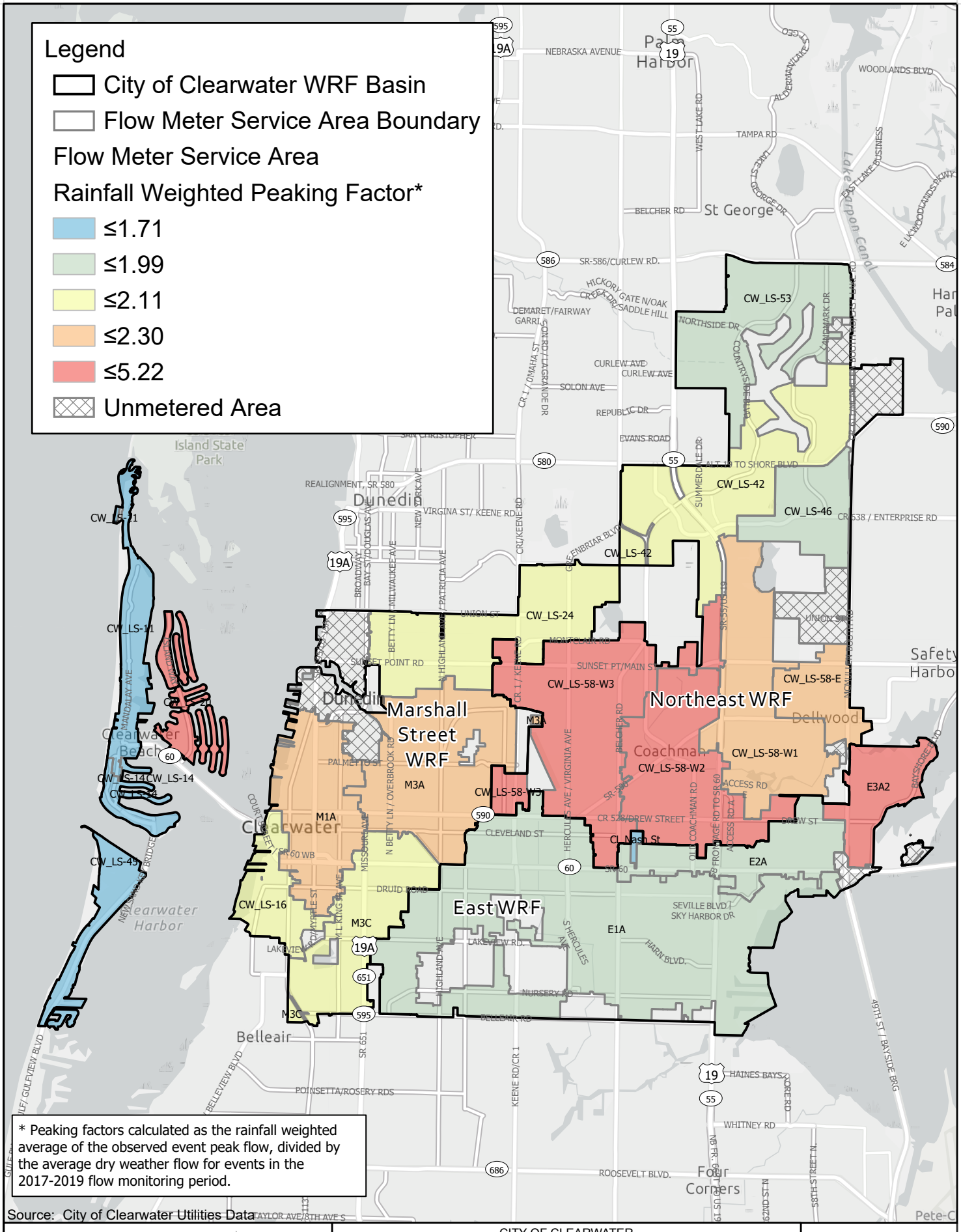
Meters LS-58-W3 and LS-58-W2 exhibited the second and third highest peaking factors, respectively, indicating a faster response to rainfall over a short period of time. These meters are consecutive to one another and measure flows from the area tributary to LS-58, which goes to the Northeast WRF. Both meters showed consistent and reliable data throughout most of the flow monitoring period. The area tributary to meter LS-20 will be reviewed in the capacity evaluation and subsequent alternatives evaluation.

Meter E3A2 exhibited the second highest percent capture. This meter measures flow from the area north of the East WRF and receives any bypass from the diversion structure upstream of LS-58. The flow metering data at Site E3A2 exhibits two types of responses before and after February 2018. A review of the pump runtime data indicates that for the period of April 2017 through April 2018, Pump #2 at LS-58 had runtimes were significantly longer than

the other two pumps and may not have been operating at normal capacity. In the 2018 lift station inspection of LS-58, the pump draw-down testing data indicates all three pumps have similar capacity. It is suspected the reduced capacity of Pump #2 led to wet well surcharging, elevated levels in the influent gravity mains and bypasses to the East WRF basin at the diversion causing the increased flow responses in the 2017 rainfall events.

Five other areas had a percent capture of at least one percent; these were the areas tributary to meters M3C, LS-14, LS-11, LS-58-W1, and LS-58-W2. The peaking factors at these two locations were not unusually high, however, suggesting a slower infiltration-type response, such as from defects in mains and manholes. **Figure 3-9** and **Figure 3-10** provide a plan view graphics of the distribution of flow responses across the three WRF basins.


Legend
City of Clearwater WRF Basin
Flow Meter Service Area Boundary
Flow Meter Service Area
Rainfall Weighted Percent Capture*
≤0.5
≤0.7
≤0.9
≤1.1
≤2.2
Unmetered Area
CW_LS-53
CW_LS-42
CW_LS-46
CW_LS-24
CW_LS-58-W3
CW_LS-58-E
CW_LS-58-W1
CW_LS-58-W2
CW_LS-58-W5
CW_LS-71
CW_LS-11
CW_LS-14
CW_LS-45
CW_LS-16
Marshall Street WRF
Northeast WRF
East WRF
M1A
M3A
M3B
M3C
E1A
E2A
E3A2
Dunedin
Clearwater
Clearwater Beach
Belleair
Safety Harbor
Dellwood
Four Corners
St George
Palm Harbor
Island State Park
Clearwater Harbor
NEBRASKA AVENUE
TAMPA RD
BELCHER RD
SR-586/CURLEW RD.
CURLEW AVE
SOLON AVE
EVANS ROAD
ALT 19 TO SHORE BLVD
VIRGINIA ST/ KEENE RD
SUNSET PT/MAIN ST
CLEVELAND ST
DREW ST
SEVILLE BLVD / SKY HARBOR DR
LAKEVIEW RD.
HARN BLVD.
NURSERY RD
BELLEAIR RD
HAINES BAYOU
WHITNEY RD
ROOSEVELT BLVD.
POINSETTA/ROSERY RDS
* Percent Capture for each event is calculated as the volume of RDII divided by the rainfall volume for each event. Average percent capture values are weighted by the rainfall volume for each event.
Source: City of Clearwater Utilities Data
TETRA TECH
N
0
1.25
Miles
CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
OBSERVED CITY-WIDE RDII PERCENT CAPTURE RATES
2017 - 2019 FLOW MONITORING PERIOD
FIGURE 3-9
P:\IER\41125\200-41125-18003\GIS\Maps\ModelFigures.aprx[alex.montalvo 12/27/2019]



* Peaking factors calculated as the rainfall weighted average of the observed event peak flow, divided by the average dry weather flow for events in the 2017-2019 flow monitoring period.

Source: City of Clearwater Utilities Data

TETRA TECH

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

OBSERVED CITY-WIDE
WET WEATHER PEAKING FACTORS
2017 - 2019 FLOW MONITORING PERIOD

FIGURE 3-10

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3.4 HYDRAULIC MODEL CALIBRATION

Calibration is the process of adjusting the model inputs, so that the model results reasonably match the measured data. Dry and wet weather volume and flow rate were calibrated in that order. The quality of the calibration was evaluated using guidance based on the Wastewater Planning Users Group (WaPUG) *Code of Practice for the Hydraulic Modeling of Sewer Systems* (November 2017). The WaPUG criteria are used as a guide to evaluate the quality of the calibration. Each calibration tries to maximize the number of events that meet the WaPUG code of practice.

3.4.1 Dry Weather Calibration

Measured and modeled predicted flows were compared for the dry weather flow calibration at each meter. The WaPUG dry weather calibration criteria applied at each flow metering location include:

- The modeled daily dry weather volume (represented by the average dry weather flow rate) is within +/- 10 percent of the measured dry weather flow volume. The goal is to achieve at least 2/3 of dry weather days (66.7 percent) that meet this criterion.
- The modeled average peak dry weather rate is within +/- 10 percent of the measured average dry weather flow rate. The goal is to achieve at least 2/3 of dry weather days (66.7 percent) to meet this criterion.
- The modeled diurnal pattern is qualitatively similar to the measured pattern.

These criteria are not considered as a pass/fail litmus-type test but rather as a guide to evaluate the quality of the calibration. The number of events that meet these criteria are maximized to provide a model that overall, best fits the observed data.

Plots comparing the modeled and measured flow rate and volume were created to assess the quality of the calibration. **Figure 3-11 and Figure 3-11b** provide an example of this plotting exercise for flow meter M1A comparing metered and modeled total volume and peak flow, respectively. The dry weather flow calibration results in **Figure 3-11 and Figure 3-11b** are typical for most sites in that the data is bunched together in more of a point-cloud than a linear trendline due to the lack of variability in the total flow (i.e. the total volume of a dry weather day in meter M1A varies between 0.37 and 0.46 MG). Therefore, the slope and intercept values become less meaningful as compared to wet weather calibrations.

At nearly every flow metering site, the metering data included a significant number of inconsistent spikes throughout the day. **Figure 3-12** shows an example of the observed data and modeled flow during a dry weather week at the meter upstream of LS-46. The model matches the overall volume and diurnal pattern of the observed data but does not simulate the spikes in the observed data. These spikes are believed to be due to privately-owned lift stations located upstream of most meters and expected noise in the data. Since the model only includes the City lift stations, spikes resulting from private list stations operating are not included in the model. For this reason, the dry weather flow calibration considered a peak flow rate that was averaged over a 6-hour period. This helps smooth the data and summarize the overall performance of the model's ability to match the peak flow rate of a dry weather day. It is recommended the City review the upstream lift stations as possible causes of the spikes.

Figure 3-11. Example Dry Weather Flow Calibration Plot at Site M1A – Daily Volume

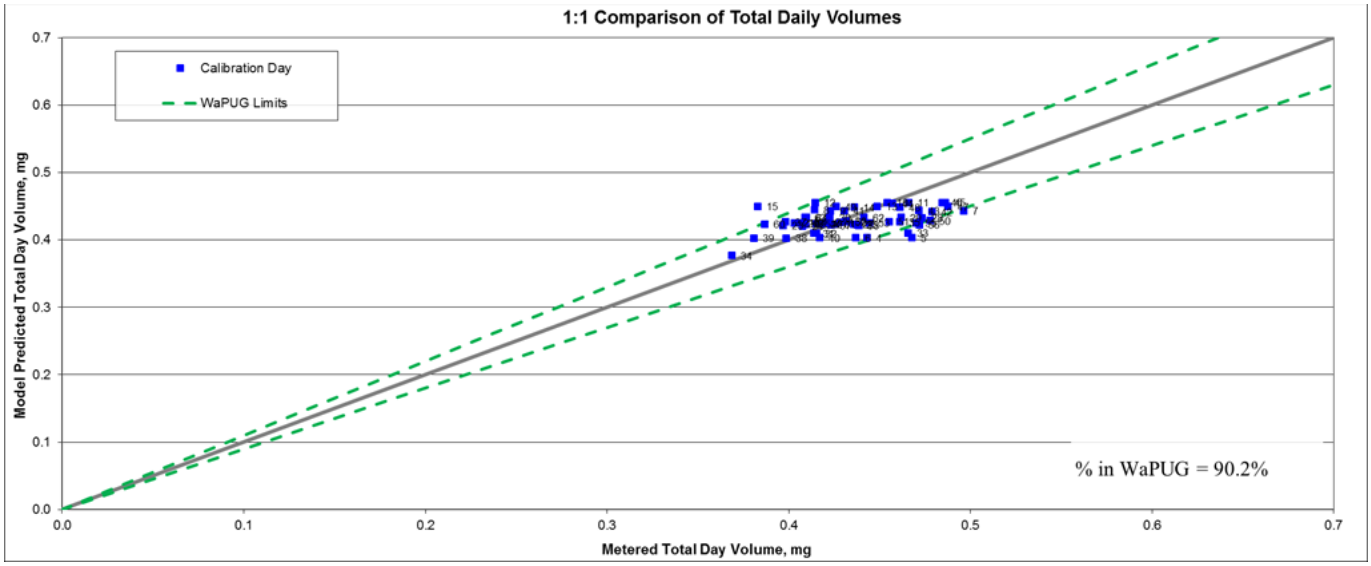


Figure 3 11b. Example Dry Weather Flow Calibration Plot at Site M1A – Average Peak Flow Rate

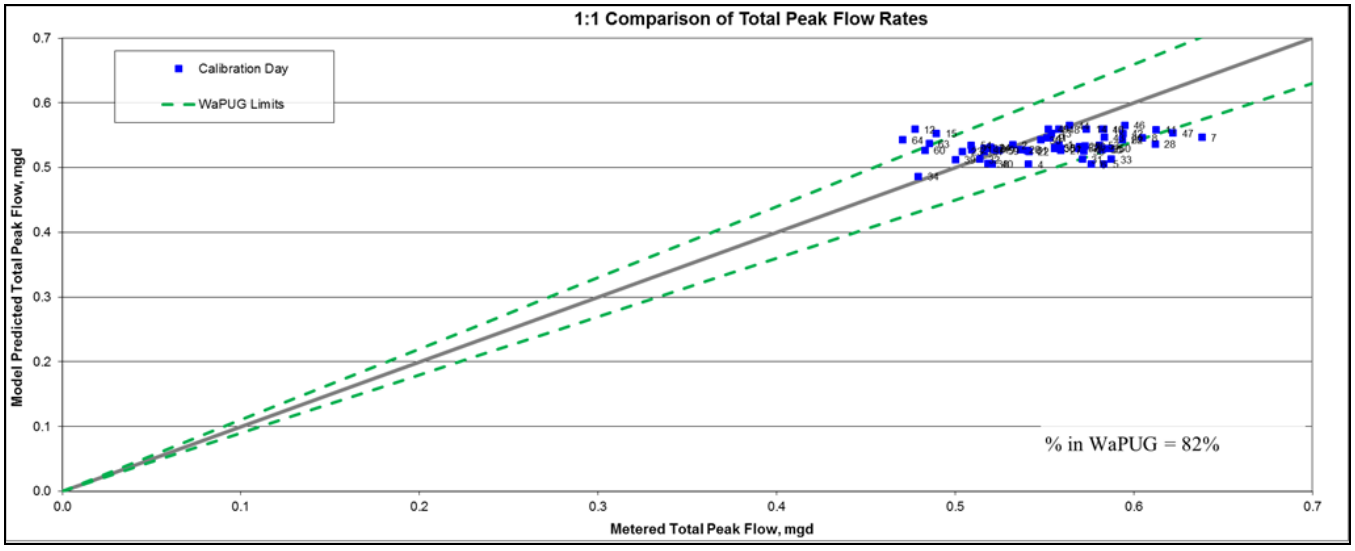
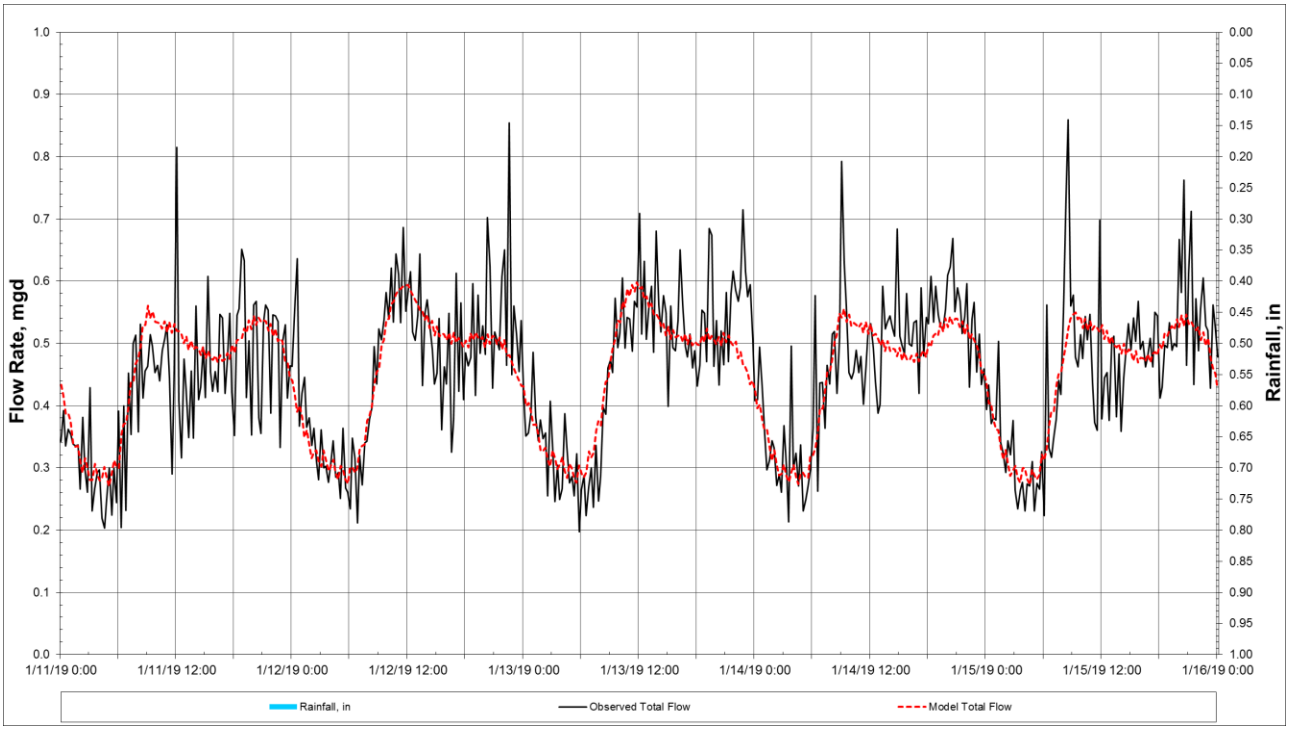


Figure 3-12. Example Dry Weather Flow Calibration for Meter LS-46



The dry weather flow calibration results for all sites were compiled and are presented in **Figure 3-13** (daily volumes) and **Figure 3-14** (average peak flow rate). Including results from all twenty sites, the calibration achieved compliance with the daily volume and average peak flow rate calibration criteria for approximately 79-percent and 69-percent of the of the dry weather days, respectively.

Table 3-8 provides a summary of the dry weather flow calibration results for each site. The calibration statistics presented below show the model is well calibrated with respect to WaPUG criteria and the dry weather peak rates and volumes are generally within the calibration tolerances for each site and follow the timing of the diurnal pattern. The following discusses the results of the dry weather flow calibration.

- East WRF Basin – The dry weather calibration in the East basin met the overall goal of 2/3 for both volume and peak flow rate at all sites.
- Marshall Street WRF Basin – The dry weather flow calibration in the Marshall Street basin meets the daily average volume criterion at all sites. Most sites are well above the 2/3 of days goal for average peak flow rate. For peak flow, most sites are near or above the calibration criteria except for LS-16 (56-percent of events meet the criteria). Sites M3A (65-percent) and LS-24 (64-percent) are slightly under the 2/3 goal for calibration.
- Northeast WRF Basin – The dry weather flow calibration in the Northeast basin meets the daily volume criteria at all sites. The dry weather flow calibration in the Northeast basin meets the peak flow criteria at all sites except LS-53 (64-percent), which nearly met the 2/3 goal for daily peak flow.

Figure 3-13. Cumulative Dry Weather Flow Calibration Summary – Daily Volume

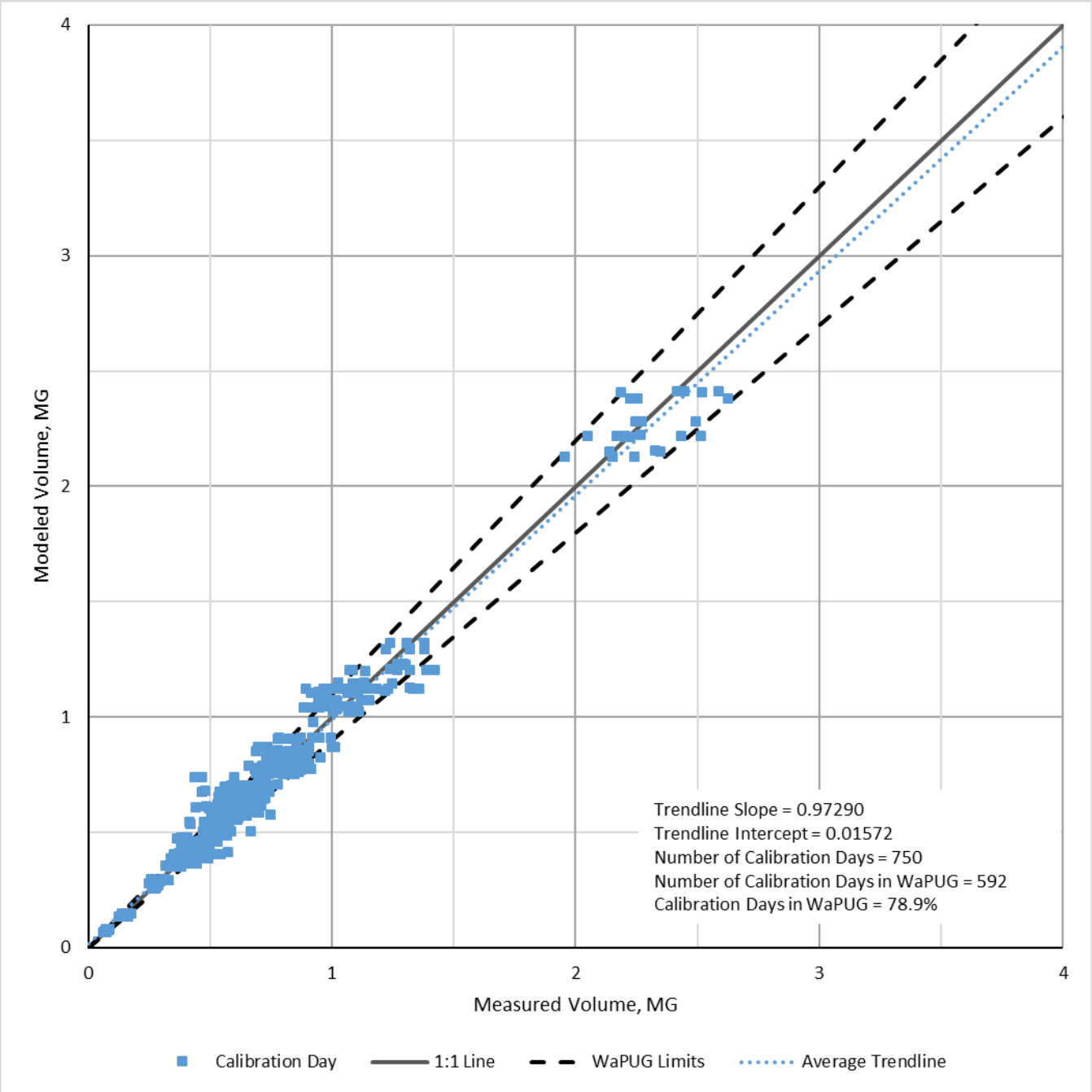


Figure 3-14. Cumulative Dry Weather Flow Calibration Summary - Average Peak Flow Rate

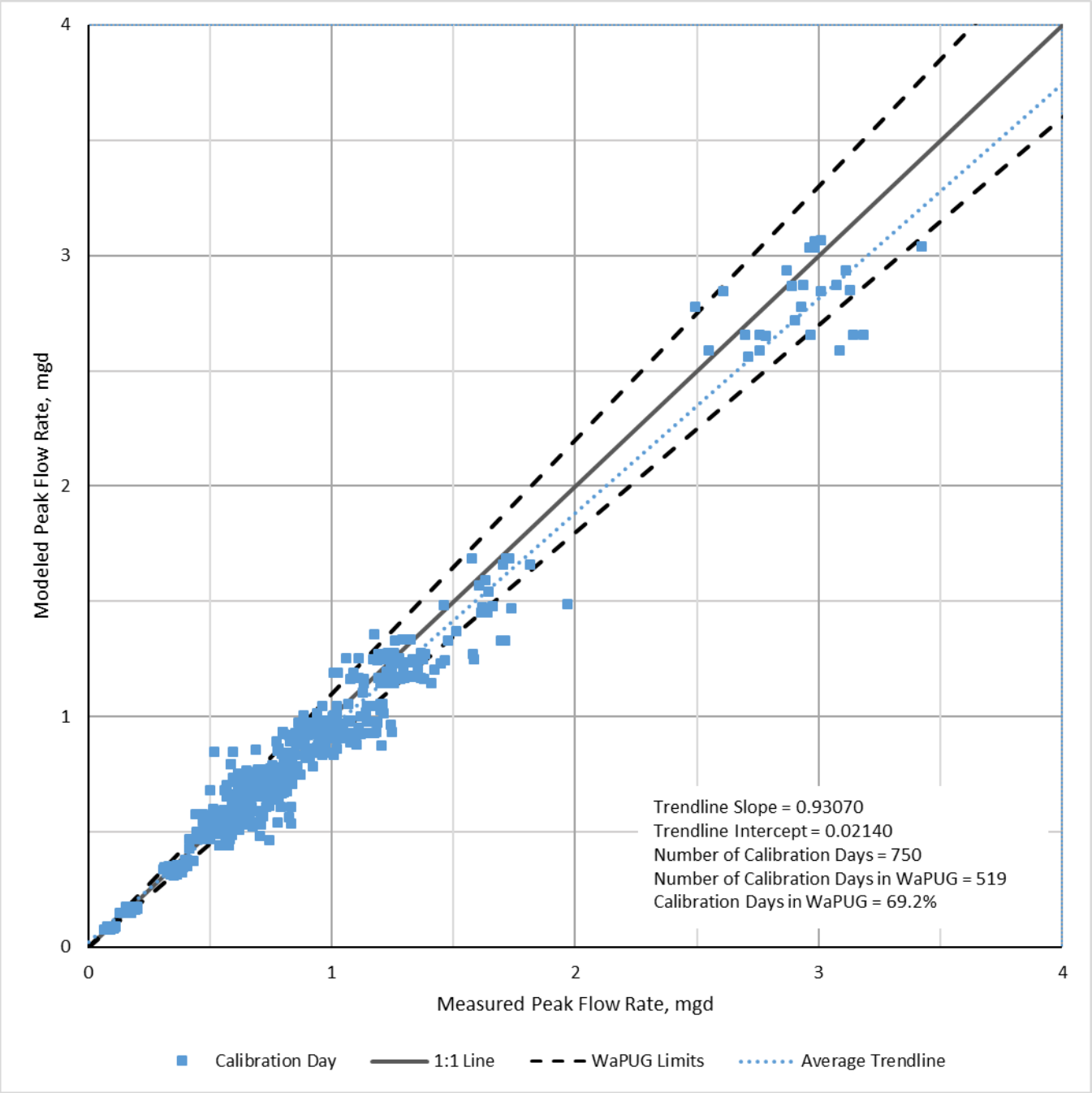


Table 3-8. Dry Weather Flow Calibration Summary

Meter ID	# of Dry Weather Days Evaluated	# of Days w/in +/- 10% of Daily Volume	% of Days w/in +/- 10% of Daily Volume	# of Days w/in /- 10% of Average Peak Flow	% of Days w/in +/- 10% of Average Peak Flow
Marshall Street WRF Basin	**431**	**325**	**75%**	**297**	**69%**
M3A	40	27	68%	26	65%
M3C	61	50	82%	40	66%
M1A	61	55	90%	50	82%
LS-24	58	39	67%	37	64%
LS-16	63	47	75%	35	56%
LS-14	64	43	67%	52	81%
LS-20	3	2	67%	2	67%
LS-45	23	19	83%	16	70%
LS-11	58	43	74%	39	67%
East WRF Basin	**208**	**159**	**76%**	**140**	**67%**
E1A	64	45	70%	43	67%
E2A	47	35	74%	33	70%
CL Nash Street	53	50	94%	35	66%
E3A2	44	29	66%	29	66%
Northeast WRF Basin	**151**	**135**	**89%**	**108**	**72%**
LS-58-W1	26	24	92%	20	77%
LS-58-W2	17	15	88%	12	71%
LS-58-W3	18	13	72%	14	78%
LS-58-E	25	20	80%	17	68%
LS-46	15	15	100%	12	80%
LS-42	25	25	100%	17	68%
LS-53	25	23	92%	16	64%

3.4.2 Wet Weather Calibration Results

Similar to the dry weather calibration, the wet weather calibration used WaPUG criteria to guide the calibration process. At each monitoring location, the observed peak flow rate and volume was compared to modeled predictions for all wet weather events. A total of up to 52 rainfall events were used for calibrating to wet weather conditions, however, each of the twenty (20) flow meters had differing periods of record and data availability for use in the calibration process. The number of wet weather events across all flow meter sites range from four (4) up to 52. The following WaPUG was criteria applied at each flow metering location to evaluate the quality of the wet weather flow calibration:

- The modeled wet weather event volume is +20 to -10 percent or within +/- 0.1 million gallons (MG) of the observed volume. The goal is to achieve at least 2/3 of dry weather days that meet this criterion.
- The modeled wet weather event peak flow rate is +25 to -15 percent or within +/- 0.1 million gallons per day (MGD) of the observed peak flow rate. The goal is to achieve at least 2/3 of dry weather days that meet this criterion.
- The timing of the modeled peaks matches the timing of the measured peaks.

As mentioned with dry weather calibration, the criteria are not considered as a pass/fail litmus-type test but rather as a guide to evaluate the quality of the calibration. Calibrations that meet these criteria should be considered to have a high-level of confidence in results produced from model applications. Calibrations that are not able to meet these criteria can still have a high-level of confidence in model results but should identify any limitations for using the model in subsequent capacity alternatives evaluations.

The observed and model predicted data was plotted against one another and statistics developed to evaluate the quality of the calibration. **Figure 3-15** provides an example of this plotting exercise for flow meter M1A, showing plots for both peak flow rate and event volume. A perfect calibration would have all data points located along a 45 degree or 1:1 line. In addition to the WaPUG criteria, a linear regression was performed to develop a trendline for each calibration plot. A perfect calibration would have a trendline slope of 1.0, and a y-intercept of zero. The objective of the calibration is to:

- Maximize the number of points within the calibration tolerances above and be located as close to the 1:1 line as possible.
- Achieve a trendline slope as close to 1.0 as possible.
- Achieve a trendline y—intercept as close to zero as possible.

Often, a model may over or underestimate flows for smaller storms to generate a good calibration at higher flows. It is more important that the largest events be well-calibrated (i.e. fall within the calibration parameters) in the model because the calibrated model will be used to simulate the peak flows from large design storms to assess pipe capacity. In **Figure 3-15**, the event which caused the largest volume and peak flow rates at site M1A (Event 28), was well calibrated for both peak and volume because they plot near the grey 1:1 calibration line, indicating that the results were very close to the metered data.

Overestimating small events typically does not impact recommendations in separate gravity systems. For example, the calibration plot for Meter M1A shows that the trend line for relatively small flow rates falls above the calibration tolerances but is within the calibration tolerances for larger events. Similar calibration plots for all the meters are provided in **Appendix F**.

In some cases, outlier events are identified that are not used in the calibration. Outlier events are those events that:

- Do not have complete data
- Data collected was not reliable data (i.e. velocities dropped out during the event period or there was an obstruction downstream of the meter affecting the depth sensor)
- Show wet weather responses that were significantly different than the other events at a given site

It is acceptable to have individual events outside of the calibration tolerance if the average of all the events is within tolerance. A good calibration is likely to have individual events that are both under and overestimated.

A visual comparison was also performed at each site to confirm the model's ability to predict timing and shape of the wet weather event hydrographs. The measured and modeled hydrographs for event 28 at site M1A are shown in **Figure 3-16** as a visual comparison of modeled and measured flow rates for a single event. This comparison was performed for each event at each flow metering site. Overall, the model matches the measured hydrograph well. The final wet weather input parameters developed through the calibration process are presented in **Appendix G**.

Figure 3-17 and **Figure 3-18** provide an overall summary of the wet weather calibration at all twenty (20) flow metering sites. **Figure 3-17b** shows a higher resolution of **Figure 3-17,** highlighting events smaller than 4 MG. When considering all sites, the calibration met the WaPUG volume and peak flow criteria for 81-percent and 72-percent of the events, respectively. **Table 3-9** provides a summary of the wet weather flow calibration by meter location.

Figure 3-15. Example of Calibration Plot for Total Event Volume and Peak Flow at Site M1A

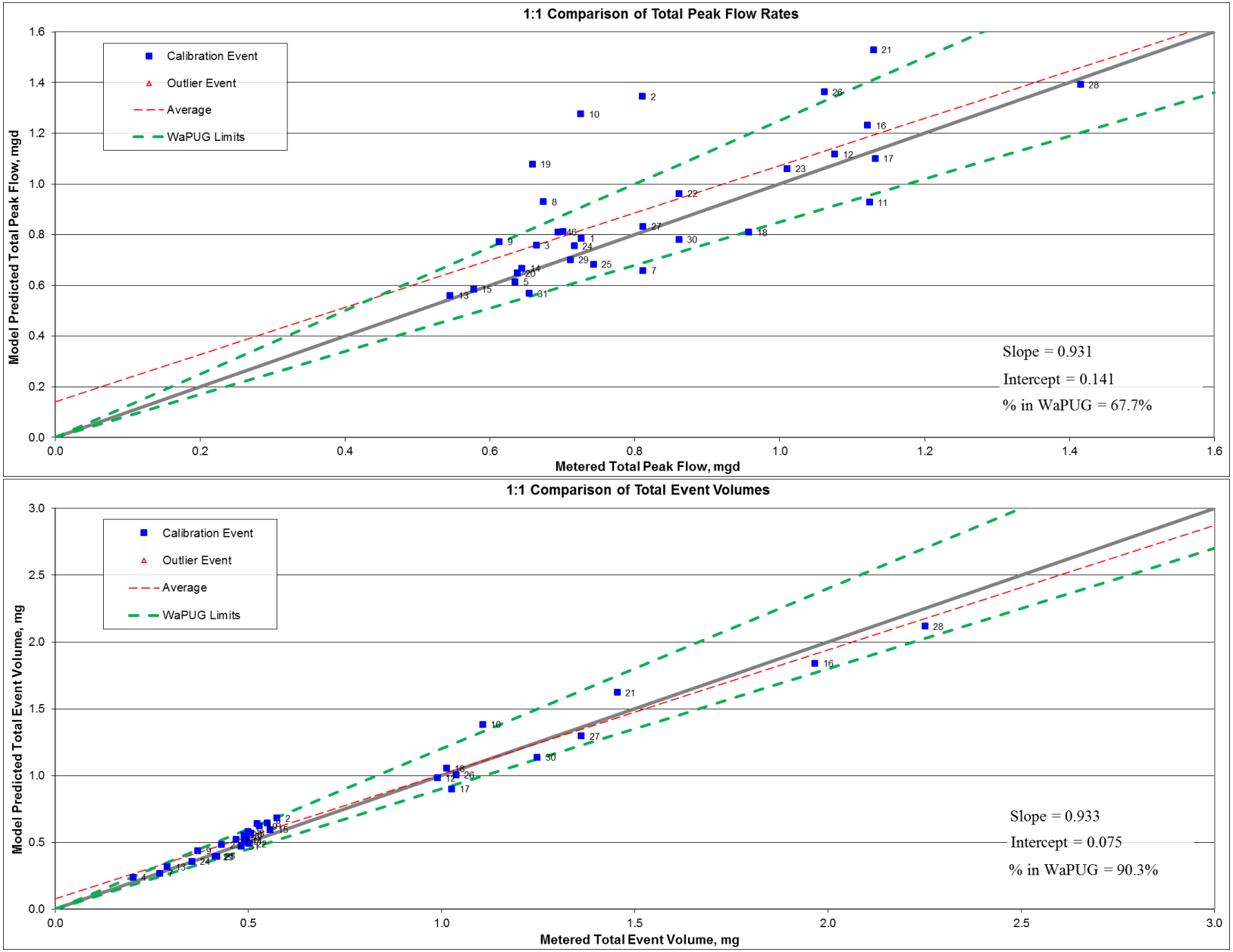


Figure 3-16. Example Wet Weather Hydrograph Comparison of Event 28 at Site M1A

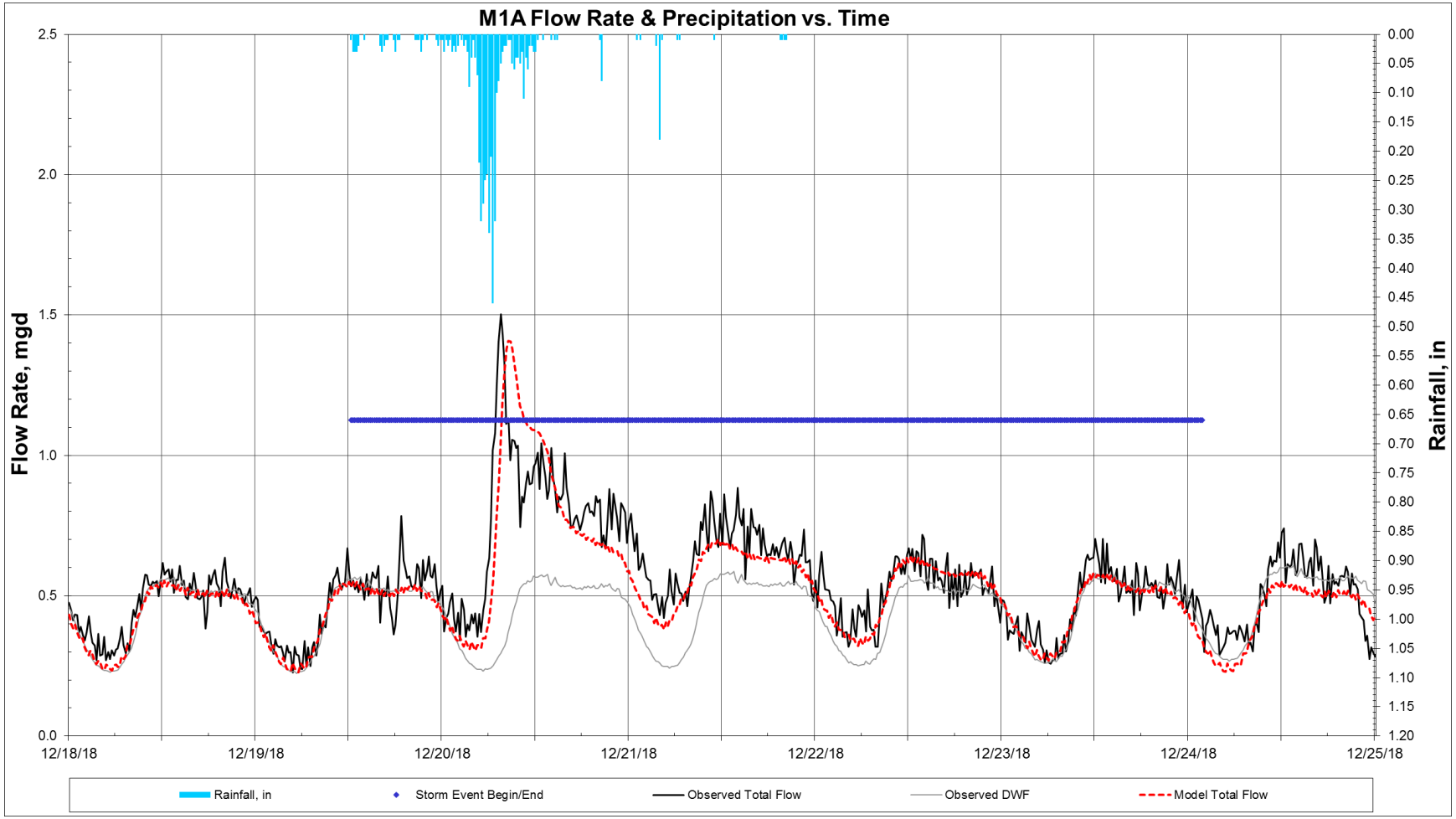


Figure 3-17. Wet Weather Flow Calibration Summary for All Sites – Total Event Volume

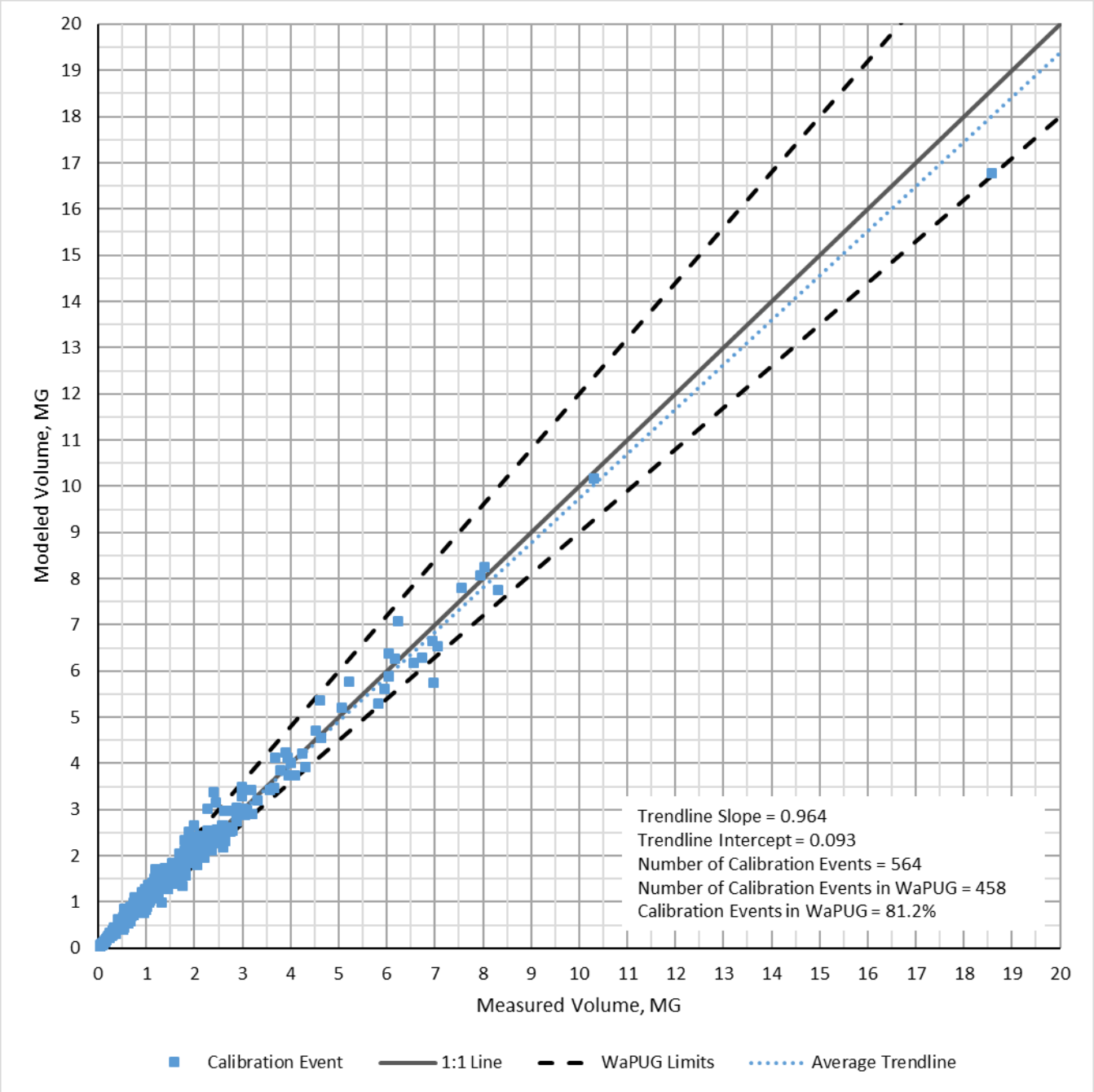


Figure 3-17b. Wet Weather Flow Calibration Summary for All Sites – Total Event Volume (Events <4 MG)

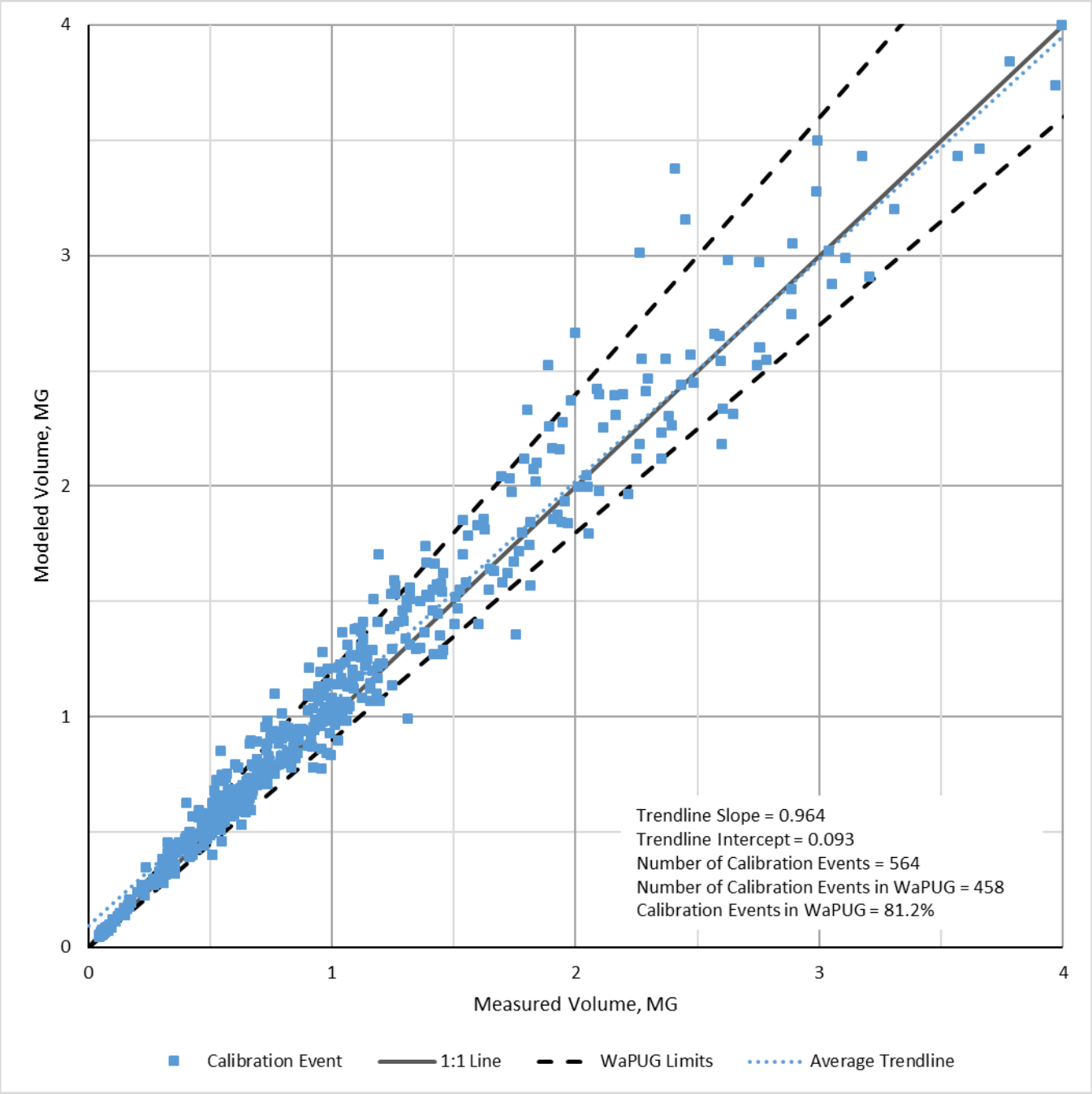


Figure 3-18. Weather Flow Calibration Summary for All Sites - Peak Flow Rate

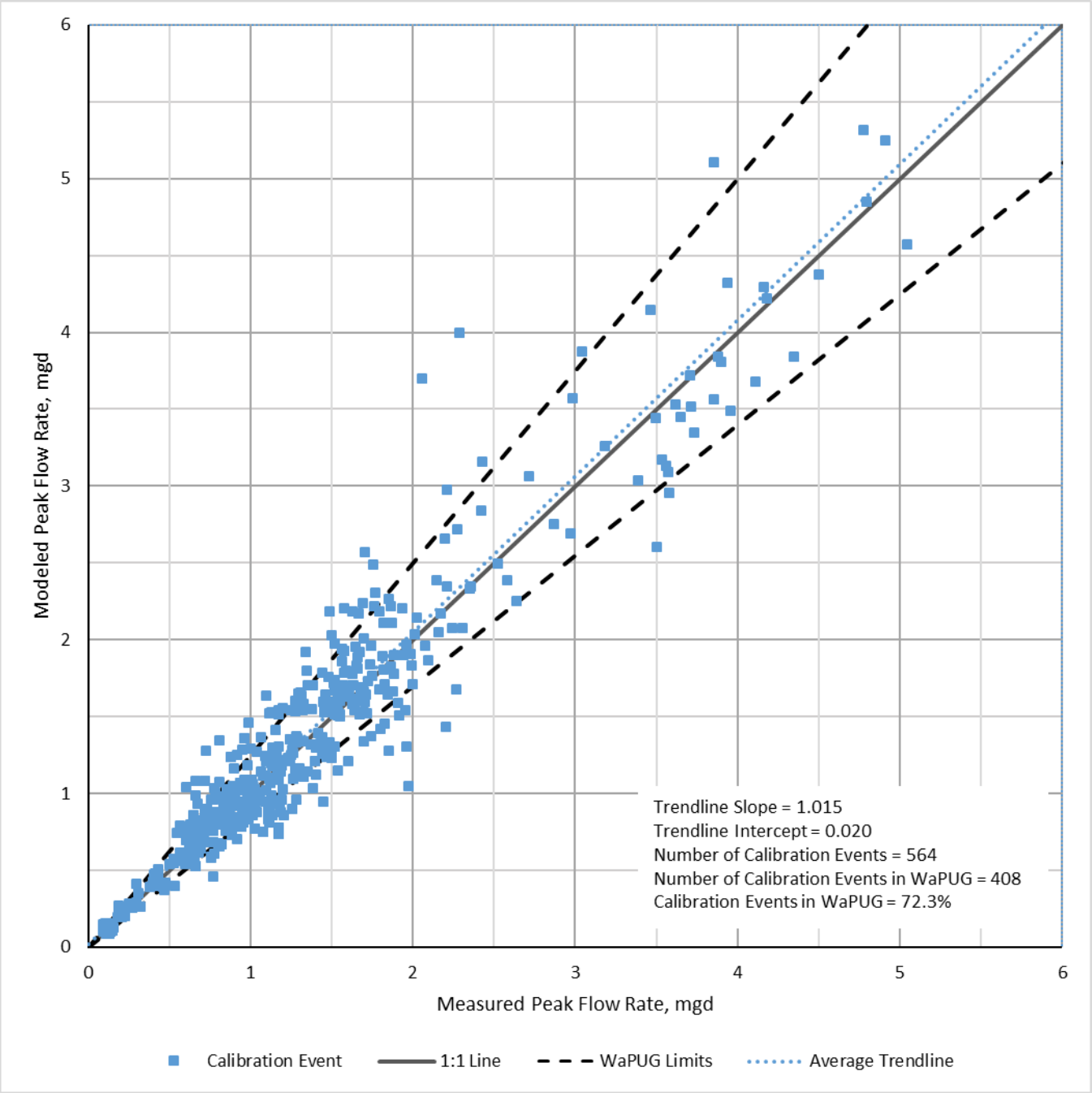


Table 3-9. Wet Weather Flow Calibration Summary

Meter ID	# of Calibration Events	# of Events Meeting Peak Flow Criteria	% of Events Meeting Peak Flow Criteria	# of Events Meeting Volume Criteria	% of Events Meeting Volume Criteria	Comments on Calibration
Marshall Street WRF Basin	**258**	**185**	**72%**	**201**	**78%**	
M3A	26	22	85%	17	65%	• Flow meter was installed in February 2018, so a shorter time period was used to calibrate the model in comparison to all other Marshall Street sites. • The model at this location tends to slightly over-predict the observed data for both peak and volume. Capacity and alternative analyses for areas tributary to this site should consider that flows may be slightly conservative. • Despite slightly overpredicting flow data, this site seems to be the least affected by the groundwater table out of all the Marshall Street sites. Could be an indicator that there are not many defects in this part of the system. • No future flow monitoring is recommended at this site unless the City wants to identify flows at local area.
M3C	42	28	67%	35	83%	• Flow metering data seemed to be reliable throughout most of the flow monitoring period. • The model at this location predicts the observed data very well for volume, while slightly underpredicting the peak flows. • No future flow monitoring is recommended at this site unless the City wants to identify flows at local area.
M1A	31	21	68%	28	90%	• Flow metering data seemed to be reliable throughout most of the flow monitoring period. • The model at this location predicts the observed data very well for volume, while slightly underpredicting the peak flows. • No future flow monitoring is recommended at this site unless the City wants to identify flows at local area.
LS-24	28	20	71%	20	71%	• Flow metering data seemed to be reliable throughout most of the flow monitoring period. • Could not use the largest event for calibration (27) because the measured rainfall amount is suspect. • Site is generally well calibrated for both peak flow and volume. • No future flow monitoring is recommended at this site unless the City wants to identify flows at local area.
LS-16	38	25	66%	29	76%	• After October 4, 2018, the depth data at this site increases by more than 70 inches with no change in velocity data. The elevated level data would indicate that the system is surcharged by 2.5 to 4 feet during dry weather flow conditions. This condition continued through the period of record used for model calibration. Based on the review of the metering data, the data after October 2018 was determined to be unreliable or being caused by an unintended operation condition, therefore, it was not used for calibration. • The model at this location tends to slightly over-predict the observed data. Capacity and alternative analyses for areas tributary to this site should consider that flows may be slightly conservative.
LS-14	45	39	87%	36	80%	• After January 27, 2018, depths and velocities become noisy and appear to overestimate flow. Event data after this date not used in calibration, so only five months of data were used for calibration. This is a good site to re-do flow monitoring in the future. • The model at this location tends to over-predict the observed data for both peak flow and total volume. Capacity and alternative analyses for areas tributary to this site should consider that flows may be slightly conservative. • If significant capital improvements are identified in this area, additional flow monitoring and model calibration is recommended prior to implementation. • Total flows at this meter seem to be driven by the groundwater table.
LS-20	4	2	50%	3	75%	• After December 3, 2107, dry weather flow increases to 500 gpcd, and becomes repetitive and noisy, suggesting unreliable data. Event data after this date was not used in calibration, so only one month of data was used for calibration. • Additional flow monitoring and model calibration is recommended prior to implementation. • If future flow monitoring is completed, meter placement should be at least two manholes upstream of the lift station wet well to produce better data quality.

Table 3-9. Wet Weather Flow Calibration Summary (Continued)

Meter ID	# of Calibration Events	# of Events Meeting Peak Flow Criteria	% of Events Meeting Peak Flow Criteria	# of Events Meeting Volume Criteria	% of Events Meeting Volume Criteria	Comments on Calibration
LS-45	17	14	82%	16	94%	• After January 27, 2018, depths and velocities become noisy and appear to overestimate flow. Event data after this date not used in calibration, so only five months of data were used for calibration. • The model at this location predicts the observed data very well for volume, while slightly underpredicting the peak flows. • Additional flow monitoring and model recalibration is recommended prior to providing capital improvement recommendations.
LS-11	27	14	52%	17	63%	• Site had rather erratic data because of the upstream lift stations and does not meet WaPUG standards for peak and volume but is generally well calibrated. • Additional flow monitoring and model recalibration is recommended prior to providing capital improvement recommendations.
East WRF Basin	**137**	**91**	**66%**	**107**	**78%**	
E1A	52	42	81%	35	67%	• Flow monitoring data was reliable throughout most of the flow monitoring period. • Plant operations were affecting flows at this meter until October 2017. Event data from before this date was not used in calibration due to backwater from the plant. • This meter monitors the largest area by both area and population. • Meter is very well calibrated to both flow and volume. • This site predicts the observed data very well • Generally, the gravity system calibration is most accurate the closer you are to the meter. As you move away from the meter, the less accurate a model gets. Since this metered area is so large, some of the upstream areas might have extrapolated data that could be lessening the peak flows at their given areas. Additional flow monitoring upstream of this meter is recommended to improve the accuracy of the model at upstream locations.
E2A	15	8	53%	12	80%	• Flow monitoring data was reliable throughout most of the flow monitoring period • Plant operations were affecting flows at this meter until October 2017. Event data from before this date not used in calibration. • The site is well calibrated for event volume, but generally underpredicts peak flows. • Peak flow is generally well calibrated but had a lot of variability in the data and is not able to meet WaPUG guidelines. • It is recommended that subsequent capacity and alternatives analyses for the areas tributary to this site may consider a higher level of control.
CL-Nash	45	24	53%	40	89%	• Meter is only capturing flows from a mobile home park community of about 18 acres. • The meter is well calibrated for volume. Peak flow does not meet WaPUG criteria due to inconsistent peak flows for similar rainfall patterns. The model equally under- and over-estimates the same number of events, making a reasonable calibration. • Subsequent flow monitoring is recommended prior to any capital improvements in this area.
E3A2	25	17	68%	20	80%	• This meter is located downstream of the emergency overflow structure on N. McMullen Booth Road from the LS-58 system to the East WRF basin. • The data at this site showed distinct differences between June 2017 - April 2018 and May 2018 - March 2019. In reviewing the LS-58 runtime data, Pump #2 appeared to be not operating at full capacity from April 2017 - April 2018. It is suspected that the condition of Pump #2 led to a reduced pumping capacity and bypasses to occur to the East Basin leading to increased flow responses at E3A2. • Because of the pumping condition at the upstream pump station, the calibration at this site tends to over-predict the events from May 2018 - March 2019. • If significant capital improvements are identified in this area, additional flow monitoring and model calibration is recommended prior to implementation.

Table 3-9. Wet Weather Flow Calibration Summary (Continued)

Meter ID	# of Calibration Events	# of Events Meeting Peak Flow Criteria	% of Events Meeting Peak Flow Criteria	# of Events Meeting Volume Criteria	% of Events Meeting Volume Criteria	Comments on Calibration
Northeast WRF Basin	**135**	**110**	**81%**	**125**	**93%**	
LS-58-W1	29	25	86%	27	93%	• Flow monitoring data were considered reliable throughout most of the flow monitoring period. • The model at this meter is very well calibrated to both flow and volume. • No future flow monitoring is recommended at this site unless the City wants to identify flows within a specific localized area in this system.
LS-58-W2	11	10	91%	11	100%	• Dry weather flow shifts on October 1, 2018, which appears to be a correction. Event data before this date not used in calibration. • The model at this meter is very well calibrated to both flow and volume. • No future flow monitoring is recommended at this site unless the City wants to identify flows within a specific localized area in this system.
LS-58-W3	14	13	93%	12	86%	• Dry weather flow shifts on October 1, 2018, which appears to be a correction. Event data before this date not used in calibration. Site was well calibrated for both peak flow and volume. • The model at this meter is very well calibrated to both flow and volume. • No future flow monitoring is recommended at this site unless the City wants to identify flows within a specific localized area in this system.
LS-58-E	23	17	74%	19	83%	• During the flow monitoring period, the weir at this manhole was never overtopped. • The model at this meter is very well calibrated to both flow and volume. • No future flow monitoring is recommended at this site unless the City wants to identify flows within a specific localized area in this system.
LS-46	11	9	82%	11	100%	• Meter was moved on October 25, 2018 to an upstream manhole. Since the flow pattern changed on this date, only the data after this date is used for calibration. • Data after October 25, 2018 seemed reliable until the end of the flow monitoring period • The model at this meter is well calibrated to both peak flow and volume. • No future flow monitoring is recommended at this site unless the City wants to identify flows within a specific localized area in this system.
LS-42	23	16	70%	22	96%	• Flow monitoring data seemed reliable throughout most of the flow monitoring period. • The model at this meter is very well calibrated to both flow and volume. • No future flow monitoring is recommended at this site unless the City wants to identify flows within a specific localized area in this system.
LS-53	24	20	83%	23	96%	• Flow monitoring data seemed reliable throughout most of the flow monitoring period. • The model at this meter is very well calibrated to both flow and volume. • No future flow monitoring is recommended at this site unless the City wants to identify flows within a specific localized area in this system.

3.5 SYSTEM PERFORMANCE DURING 2017-2019 MONITORING PERIOD

The calibrated model was simulated for the 2017-2019 flow monitoring period. An evaluation was performed to quantify the model predicted system performance during this period. Model results from 2017-2019 monitoring period were used to generate a series of GIS figures that graphically present the level of surcharging and/or SSOs that occurred across each of the three WRF service areas. The GIS figures also include locations of historic reported SSO locations in each basin. It should be noted that the historic SSO data provided did not include information to characterize the cause of the SSO occurrence, whether it was due to system surcharging, ongoing construction, equipment failure, blockages or operations and maintenance related issues.

Section 3.3.1 outlines the magnitude of the rainfall events that occurred in the 2017-2019 flow monitoring period. In general, the City experienced two to three 2-year return events, depending on location within the City. For the 2017-2019 flow monitoring period, the model does not predict a significant amount of surcharge and/or flooding, indicating the collection system has approximately a two-year return storm level of service. The model has limitation and assumes no O&M issues, meaning that it assumes pipes with no sediment or fat, oil, and grease (FOG) accumulation, or significant defects that would limit pipe capacity. If these transient conditions exist and could be accounted for in the model, the predicted results would likely lead to increased surcharging and/or surface flooding.

The following sections describe the performance within each of the three WRF basins.

3.5.1 Marshall Street WRF Basin

During the 2017-2019 flow monitoring period, the model does not predict any SSO or surface flooding for the 2017-2019 flow monitoring period. Significant system surcharging is generally predicted to occur in four primary areas:

- **LS-20 Service Area.** The gravity main along Windward Passage east of Island Way and the connecting mains are predicted to experience minor surcharging. The maximum hydraulic grade line (HGL) is predicted to be more than five (5) feet below grade and not anticipated to flood. The LS-20 had the largest peaking factor and percent capture of all twenty (20) flow metering locations. Since only one month of data was deemed reliable during the calibration period, future flow monitoring is recommended before confirming any capital improvement recommendations are required.
- **South MLK Avenue at Lakeview Road.** The reach of gravity main along MLK Avenue from Kingsley Street to Jeffords Street is predicted to surcharge. The amount of surcharging varies from more than five (5) below grade to between one (1) to five (5) below grade. The variations in surcharging are due to changes in depth of the gravity main along this reach. One historic SSO was reported in this area.
- **Missouri Avenue at Druid Road.** The model predicts the gravity main at this location will surcharge to within one (1) foot of surface. The magnitude of the surcharging is due to a shallow manhole at this location.
- **North and South Myrtle Avenue.** The model predicts surcharging at three manholes along Myrtle Avenue. The surcharging is attributed to adverse pipe slopes along the trunk line obtained during field survey investigations.
- **Cleveland Street.** The model also predicts minor surcharging at one other manhole on Cleveland Street, between South Fredrica Avenue and South Lady Mary Drive, during the 2017-2019 flow monitoring period.

The City has reported a number of SSOs throughout the Marshall Street WRF basin, but it is unclear if these SSOs were related to capacity issues or FOG and operations and maintenance (O&M) issues. The model does predict surcharging near several of these historic SSO locations. **Figure 3-19** provides an overview of model predicted surcharging and historic reported SSOs in the Marshall Street WRF basin.

Legend

- Marhsall Street WRF Basin
- Other WRF Basin Areas
- WRF Location
- Historical SSO Locations

Hydraulic Model Network

- Marshall Street WRF Lift Station
- Private Lift Station
- Other City Lift Stations
- Manhole
- Gravity Main
- Force Main

Collection System Performance

- No surcharging projected
- Surcharging more than 5' from the ground
- Surcharging from 1'-5' from ground
- Surcharging within 1' of ground
- Surface Flooding

Marshall Street WRF

Northeast WRF

East WRF

Source: City of Clearwater Utilities Data

County of Pinellas, FDEP, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

P:\IER\41125\200-41125-18003\GIS\Maps\ModelFigures.aprx|FIGURE 3-19|betty.morris 3/12/2021

TETRA TECH

0 N 3,000 Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

MARSHALL STREET WRF BASIN
SYSTEM PERFORMANCE
2017 - 2019 FLOW MONITORING PERIOD

FIGURE 3-19

3.5.2 East WRF Basin

The East WRF basin has undergone capital and operational improvements over the last several years, including gravity main improvements on Corona Avenue and optimizing influent the East WRF wet well operating levels. These changes have improved the overall performance of the East WRF system. A review of the SSO locations in the East WRF basin indicates a greater frequency of occurrences in the following locations:

- **Gulf to Bay Boulevard.** The model predicts surcharging at one manhole along Gulf to Bay Boulevard at County Road 55, north along Cooper Bay approaching the Alligator Creek system, and near Alemanda Drive at County Road 501. This location is just upstream of some historical SSO locations. The surcharging in the model occurs due to a minor capacity issue at the downstream pipe. Location will be monitored during capacity analysis to distinguish if any other capacity issues occur downstream of this location during larger storms.
- **Two Interceptor Mains Upstream of East WRF** - Model results for the 2017-2109 flow metering period indicate surcharging on the two interceptor mains connecting to the East WRF. The main that serves the E1A flow meter area (southwest of the WRF) and the main that serves the E3A2 meter (north of the WRF) both show significant surcharging during the flow monitoring period. For the East WRF, timeseries elevation data at the influent wet well was used for a boundary condition. A review of the timeseries level data at the wet well shows a significant spike in the data (for both wet well level sensors) in from early July 2017 to October 2017. This timeframe is not associated with a rainfall event and the elevated wet well levels are likely due to operations at the IPS. Some of these surcharge locations coincide with historical SSOs reported by the City, which could be an indicator that the SSOs in this region are due to backups from the plant rather than capacity issues at the pipes. These findings are consistent with the operational issues at the East WRF IPS mentioned in AECOM's Technical Memorandum (Japanese Gardens WWCS Evaluation) from March 19, 2018 and have since been addressed by the City.

Historical SSO records show that there were instances of SSO occurrences, including LS-19 and in the Northwestern part of the East WRF (bounded by Druid Road to the South, Cleveland Street to the north, McMullen Road/Lake Avenue to the west and County Road 501 to the east). The model does not predict surcharging in these areas during the flow monitoring period. These locations are part of meter E1A tributary area. Generally, the gravity system calibration is most accurate at a flow meter where conditions are known. Moving further upstream from the meter, extrapolations are made introducing the potential for uncertainty. Since this metered area is generally large, the upstream areas will have extrapolated data that could be dampening the peak flows at any given local area. Additional flow monitoring upstream of this meter is recommended to improve the accuracy of the model at upstream locations.

Figure 3-20 presents the surcharging information for the 2017-2019 flow monitoring period and historic reported SSOs for the East WRF basin.

Legend

- East WRF Basin Area
- Other WRF Basin Areas
- WRF Location
- Historical SSO Locations

Hydraulic Model Network

- East WRF Lift Station
- Private Lift Station
- Other Lift Station
- Manhole
- GravityMain
- Force Main

Collection System Performance

- No surcharging projected
- Surcharging more than 5' from the ground
- Surcharging from 1'-5' from ground
- Surcharging within 1' of ground
- Surface Flooding

Marshall Street WRF

East WRF

COUNTRYSIDE BLVD

ENTERPRISE RD

MAIN ST

CLEVELAND ST

DRUID RD

LAKEVIEW RD

ALEMANDA DR

S BELCHER RD

GLEN OAK AVE N

GULF TO BAY BLVD

280A2096

289A4105

298B7255

299B8125

315A4155

315A2085

316B8042

317B5200

283A1030

LS-19

LS-47

LS-40

LS-43

LS-34

LS-37

LS-T

LS-X

LS-E

LS-D

LS-05

LS-P

LS-R

LS-78

LS-33

County of Pinellas, FDEP, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Source: City of Clearwater Utilities Data

TETRA TECH

0 N 3,000 Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

EAST WRF BASIN
SYSTEM PERFORMANCE
2017 - 2019 FLOW MONITORING PERIOD

FIGURE 3-20

P:\IER\41125\200-41125-18003\GIS\Maps\ModelFigures.aprx\FIGURE 3-20[betty.morris 3/12/2021]

3.5.3 Northeast WRF Basin

The Northeast WRF basin has the fewest reported historical SSOs. Many of the SSOs appear to be located at terminal manholes along a gravity main branch. These occurrences are likely related to a low manhole at the furthest upstream point of a system and/or O&M issues and not indicative of a capacity limitation. A series of reported SSOs do occur on County Road 638 midway between McMullen Booth Road and US 19 near the Oaks of Northwood. A review of the aerial and topographic data indicates this is near a low area and open water.

The model does not predict surface flooding in the Northeast WRF basin for the 2017-2019 flow monitoring period. The model does predict surcharging in two general areas:

- **LS-58 / Alligator Creek System.** The main into LS-58 from the southwest shows systemic surcharging to the east and then south along Ream Wilson trail, north along Owen Drive (extended), and South along US 19.
- **LS-46 - County Road 638 at McMullen Booth Road.** The gravity main on County Road 638 (Enterprise Road) located west of McMullen Booth Road shows significant surcharging during the 2017-2019 flow monitoring period. This area drains to LS-46, which showed moderate I/I rates in the flow monitoring data and the calibration was very good at this location. The surcharging is due to a localized capacity issue on County Road 638 west of McMullen Booth.

Figure 3-21 presents the model predicted system performance for the 2017-2019 flow monitoring period and historic reported SSOs for the Northeast Basin.

Legend

- Northeast WRF Service Area
- Other WRF Basin Areas
- WRF Location
- Historical SSO Locations

Hydraulic Model Network

- Northeast WRF Lift Station
- Private Lift Station
- Other City Lift Stations
- Manhole
- Gravity Main
- Force Main

Collection System Performance

- No surcharging projected
- Surcharging more than 5' from the ground
- Surcharging from 1'-5' from ground
- Surcharging within 1' of ground
- Surface Flooding

US 19A
BELCHER RD
US HIGHWAY 19 N
MCMULLEN BOOTH RD S
MAIN ST
MAIN ST
COUNTRYSIDE BLVD
ENTERPRISE RD
DEER RUN E
DEER RUN S
HILLCREEK CIR N
HILLCREEK CIR E
LANDMARK DR
ENTERPRISE RD E
UNION ST
SUNSET POINT RD
N HIGHLAND AVE
GLEN OAK AVE N
CLEVELAND ST
CLEVELAND ST
S BELCHER RD
GULF TO BAY BLVD
GULF TO BAY BLVD
DRUID RD
DRUID RD

County of Pinellas, FDEP, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Source: City of Clearwater Utilities Data

P:\IER\41125\200-41125-18003\GIS\Maps\ModelFigures.aprx|FIGURE 3-21|betty.morris 3/12/2021

TETRA TECH

0 N 2,500
Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

NORTHEAST WRF BASIN
SYSTEM PERFORMANCE
2017 - 2019 FLOW MONITORING PERIOD

FIGURE 3-21

3.6 SUMMARY AND RECOMMENDATIONS

A hydraulic model was developed using the best available information from GIS, as-built records, and field survey efforts. The model was calibrated to flow and precipitation data collected through the City's ongoing permanent flow monitoring program. The precipitation data used was evaluated at a single flow metering location within each WRF basin because a standalone database of rain gauge precipitation data was not available. Going forward, it is recommended to obtain said database to properly quantify the precipitation volumes and patterns experienced across the service area.

The model development and calibration process produced a hydraulic model that is accurate with respect to WaPUG criteria for the observed data in the 2017-2019 flow monitoring period. Based on the results presented in **Figure 3-19, Figure 3-20,** and **Figure 3-21**, the collection generally has at least a 2-year level of service. The model is well-suited for performing capacity analyses and alternative evaluations.

The model predicts some system surcharging for the 2017-2019 flow monitoring period that matches some locations with historical reported SSO occurrences. However, the model did not match all reported SSOs locations. The reported SSOs have not yet been characterized by cause of SSO and it is difficult to quantify those SSOs that are related to system capacity versus those related to interim conditions or O&M issues. Tetra Tech recommends that the City begins collecting and information on the cause of SSOs when they occur to better qualify the collected data.

The City's ongoing flow monitoring program collects valuable data that can be used to further improve the model. The following recommendations have been identified for the City consider for its ongoing flow monitoring efforts:

- East WRF Basin
    - Inspect gravity mains less than 8-inches to verify the pipe diameter or determine if the pipe should be reclassified as a lateral.
    - Review and prioritize the lift stations that have components that scored as unserviceable or require rehabilitation.
    - Add additional flow meters upstream of E1A and maintain sites E2A and E3A2. The following areas are recommended for sub-dividing area E1A:
        - LS-19 – A meter could be installed in the effluent 18" pipe to MH 307A1180 immediately upstream of LS-16,
        - At MH-308B5150, just downstream of the neighborhood that is currently experiencing frequent flooding,
        - At MH 309B8050 in the influent 30-inch influent pipe just upstream of Alligator Creek.
- Marshall Street WRF Basin
    - Inspect gravity mains less than 8-inches to verify the pipe diameter or determine if the pipe should be reclassified as a lateral.
    - LS-45 – This metering area showed a very high level of dry weather flow (gpcd), likely due to sea water intrusion in the beach side gravity system. Recommend the City maintain a meter in this general area. Consider alternate locations or increased meter maintenance to improve the quality of data collected.
    - LS-20 – This meter area had the largest peaking factor and percent capture of all twenty (20) flow metering locations, likely due to seawater intrusion through pipe and manhole defects into the island gravity system. Only one month of usable data was available at this site. Recommend the City maintain a meter in this general area. Consider alternate locations or increased meter maintenance to improve the quality of data collected.

- Recommend the City maintain meter at sites M1A, M3A and M3C in current locations or in alternate location to meter the same general area.
- LS-16 – Recommend the City maintain a meter in this general area. The data was very noisy at this location. Consider alternate location that has better hydraulic conditions to improve the accuracy of data collection. From the model hydraulic profile, the effluent pipe of MH 286B6041 seems like a good location but will need to be further evaluated by installation field crew.

- Northeast WRF Basin
  - Prioritize the 30-inch gravity mains discharging to LS-58 which have been characterized as renewal required during the condition assessment.
  - Recommend the City maintain flow meters along the Alligator Creek diversion structure near LS-58 to help to define conditions under which flow is diverted to site E3A2.

4.0 CAPACITY ANALYSIS

A hydraulic capacity analysis compares model predicted flow rates to existing conveyance capacities and estimates the elevation of the hydraulic grade line in the system, including the magnitudes of surcharging and flooding in the collection system. A capacity analysis is performed by applying a design storm condition to the hydraulic model to confirm areas with sufficient capacity and identify deficiencies in the collection system. The state of Florida currently has no regulations that dictate what design storm conditions should be used to evaluate a collection system. For this reason, the hydraulic model was used to perform a rainfall sensitivity analysis to (1) evaluate the system response under different rainfall volumes and intensities and (2) select the design storm for use in the master plan. Once a design storm was selected, the system's level of service (LOS) was used along with the condition assessments to develop capital improvement projects listed in **Sections 5, 6 and 7** of this report. The flow rates and hydraulic grade lines developed for the sensitivity analyses were developed using the calibrated model, which is documented in **Section 3** of this report.

4.1 SENSITIVITY ANALYSIS

A rainfall sensitivity analysis was conducted to evaluate the performance of the City's wastewater collection system under intense rainfall events of different volumes and select a design storm to evaluate the existing LOS.

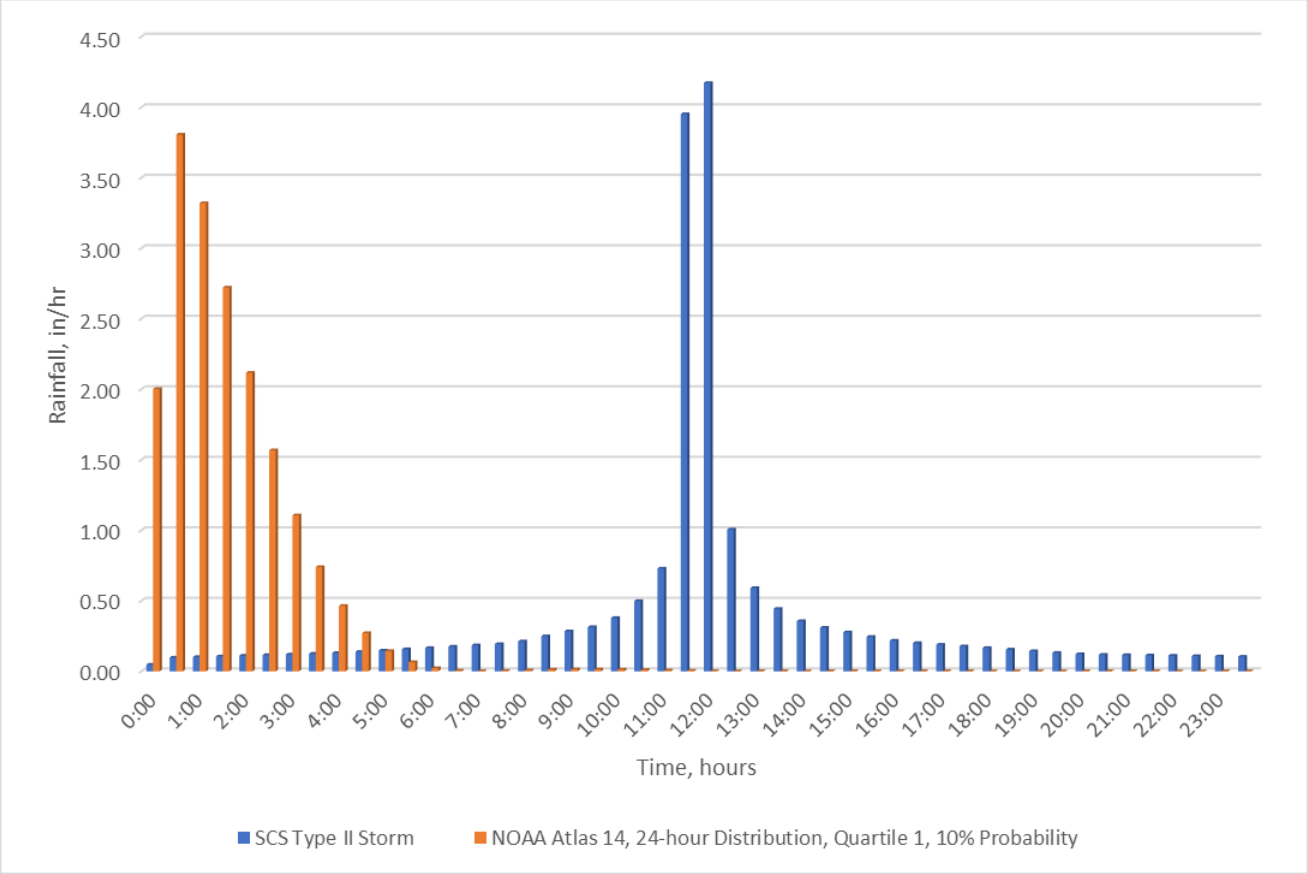
4.1.1 Rainfall Distribution and Design Storm Events

Rainfall volumes were selected using NOAA Atlas 14, Volume 9, Version 2 Precipitation-Frequency Atlas of the United States (2013) for each design storm. Rather than use a constant rainfall intensity distribution or a theoretical distribution (i.e. Natural Resource conversation Service (NRCS) Soil Conversation Service's (SCS) Type II and the Modified Florida Type II used by the Southwest Florida Water Management District), the 24-hour rainfall event distribution data was obtained from NOAA Atlas 14 for use on this project. The NOAA Atlas 14 rainfall distributions were developed using long-term historical rainfall data in the Clearwater, Florida region and considered more typical of large rainfall events that the City would experience. The distribution selected for this analysis is the Southeast Region 2, Quartile 1, 10-percent probability rainfall distribution. This distribution resulted in greater peak flows than other NOAA Atlas 14 distributions and the SCS Type II for a common depth of rainfall. A copy of the NOAA Atlas 14 data is in **Appendix H**.

Figure 4-1 compares the 25-year, 24-hour design storm event hyetographs (rainfall intensity vs. time) for the SCS Type II and NOAA Atlas 14 Quartile 1, 10-percent probability distributions. The following design storm rainfall depths were evaluated for the sensitivity analysis study using the NOAA Atlas 14, Quartile 1, 10-percent rainfall distribution:

- 2-year, 24-hour design storm event (4.68-inches of rainfall)
- 5-year, 24-hour design storm event (5.90-inches of rainfall)
- 10-year, 24-hour design storm event (7.14-inches of rainfall)
- 25-year, 24-hour design storm event (9.23-inches of rainfall)
- 50-year, 24-hour design storm event (11.10-inches of rainfall)
- 100-year, 24-hour design storm event (13.30-inches of rainfall)

Figure 4-1. Comparison of 25-Year, 24-Hour Design Event Hyetographs – NOAA Atlas 14 vs. SCS Type II



4.1.2 Results

The 2-year to 100-year design storm events were simulated using the calibrated collection system model and evaluated for the quantity of manholes flooding to surface (e.g. SSOs) and total flooding volume. **Table 4-1** presents the total count and magnitude of SSOs in the overall collection system per design storm. **Figure 4-2** through **Figure 4-7** show the results of each design storm based on surcharging and flooding manholes (e.g. SSOs).

Table 4-1. Flooding Data Per Design Storm

Design Storm Event	Count of Manhole Flooding (SSOs)	Flooding Volume, MG	Estimated No. of Probable Capital Improvement Projects
2-year, 24-hour	2	0.004	2
5-year, 24-hour	10	0.085	5
10-year, 24-hour	20	0.446	8
25-year, 24-hour	43	1.726	16
50-year, 24-hour	70	3.777	21
100-year, 24-hour	96	6.654	25

Northeast WRF

East WRF

Marshall Street WRF

Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

N

0 1 Miles

Source: City of Clearwater Utilities Data

LEGEND

Collection System Performance 2 Year Storm Event
- No surcharging projected
- Surcharging more than 5' from the ground
- Surcharging from 1'-5' from ground
- Surcharging within 1' of ground
- Surface Flooding

Lift Station
WRF WRF Location
Lift Station Service Area

City of Clearwater WRF Service Area
Gravity Main

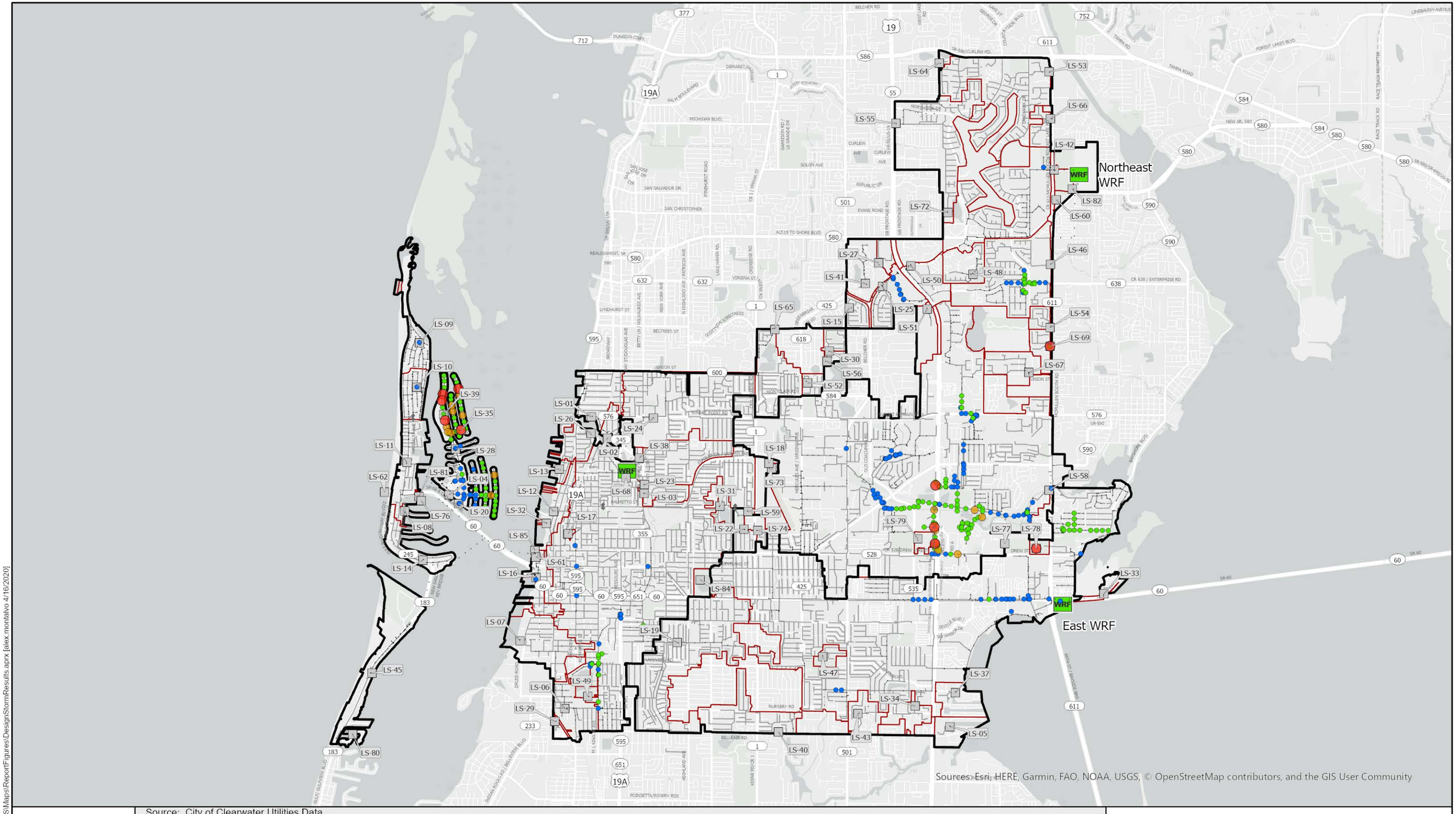
CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

Design Storm Sensitivity Analysis
2-year, 24-hour Event (4.68 in.)
NOAA Atlas 14 for Southeast Region 2, Quartile 1,
10th-Percentile Frequency Distribution

TETRA TECH

FIGURE 4-2

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\DesignStormResults.aprx [alex.montalvo 4/16/2020]



N

0 1 Miles

Source: City of Clearwater Utilities Data

LEGEND

Collection System Performance 5 Year Storm Event
- No surcharging projected
- Surcharging more than 5' from the ground
- Surcharging from 1'-5' from ground
- Surcharging within 1' of ground
- Surface Flooding

Lift Station
WRF Location
Lift Station Service Area
City of Clearwater WRF Service Area
Gravity Main

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

Design Storm Sensitivity Analysis
5-year, 24-hour Event (5.90 in.)
NOAA Atlas 14 for Southeast Region 2, Quartile 1,
10th-Percentile Frequency Distribution

TETRA TECH

FIGURE 4-3

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\DesignStormResults.aprx [alex.montalvo 4/16/2020]

Northeast WRF

East WRF

Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

N

0 1 Miles

Source: City of Clearwater Utilities Data

LEGEND

Collection System Performance 10 Year Storm Event
- No surcharging projected
- Surcharging more than 5' from the ground
- Surcharging from 1'-5' from ground
- Surcharging within 1' of ground
- Surface Flooding

Lift Station

WRF WRF Location

Lift Station Service Area

City of Clearwater WRF Service Area

Gravity Main

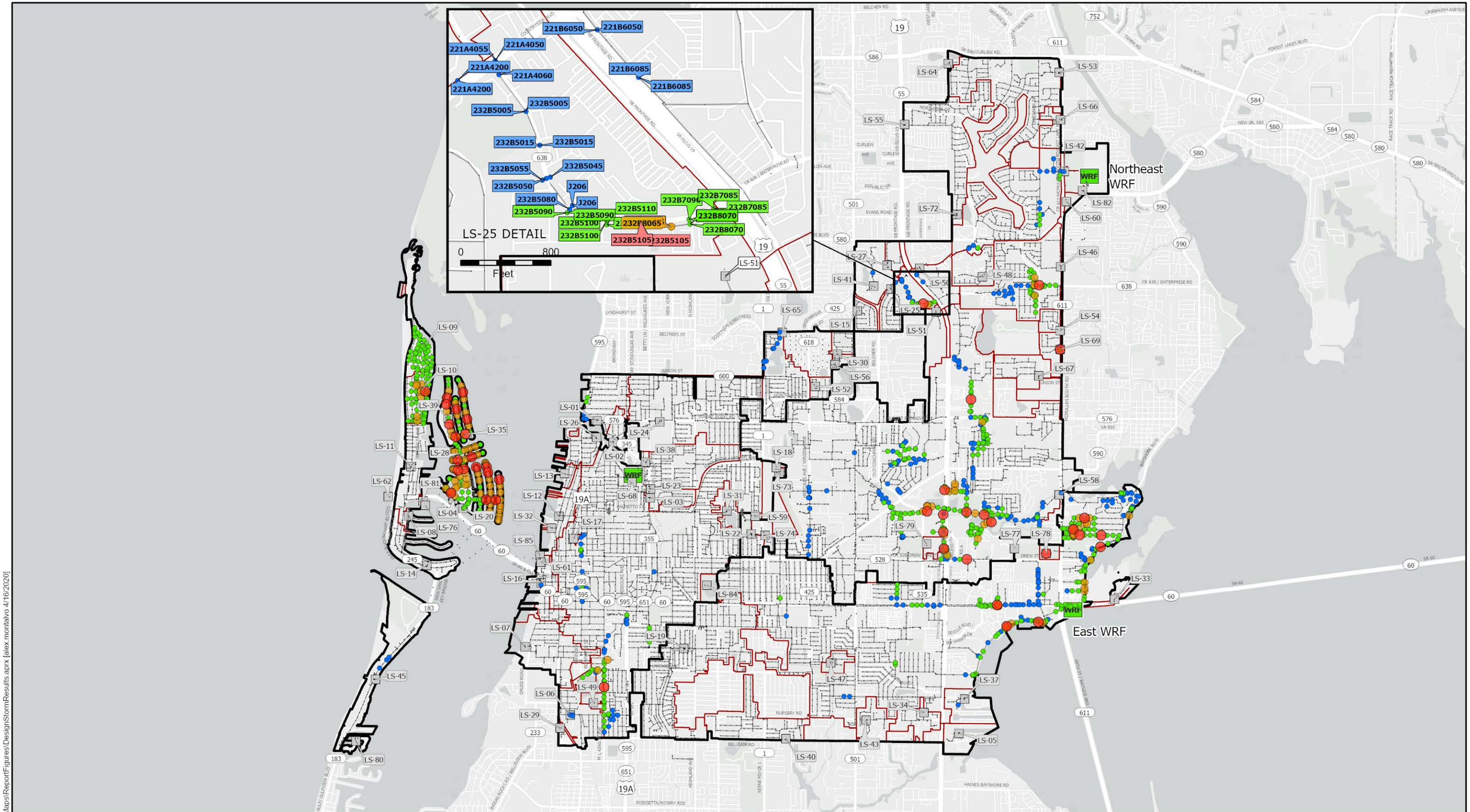
CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

Design Storm Sensitivity Analysis
10-year, 24-hour Event (7.14 in.)
NOAA Atlas 14 for Southeast Region 2, Quartile 1,
10th-Percentile Frequency Distribution

TETRA TECH

FIGURE 4-4

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\DesignStormResults.aprx [alex.montalvo 4/16/2020]



Source: City of Clearwater Utilities Data

LEGEND

Collection System Performance 25 Year Storm Event
- No surcharging projected
- Surcharging more than 5' from the ground
- Surcharging from 1'-5' from ground
- Surcharging within 1' of ground
- Surface Flooding

Lift Station

WRF WRF Location

Lift Station Service Area

City of Clearwater WRF Service Area

Gravity Main

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

Design Storm Sensitivity Analysis
25-year, 24-hour Event (9.23 in.)
NOAA Atlas 14 for Southeast Region 2, Quartile 1,
10th-Percentile Frequency Distribution

TETRA TECH

FIGURE 4-5

P:\IER\41125\200-41125-18003\GIS\Maps\Report\Figures\DesignStormResults.aprx [alex.montalvo 4/16/2020]

Northeast WRF

East WRF

Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

N

0 1 Miles

LEGEND

Source: City of Clearwater Utilities Data

Collection System Performance 50 Year Storm Event
- No surcharging projected
- Surcharging more than 5' from the ground
- Surcharging from 1'-5' from ground
- Surcharging within 1' of ground
- Surface Flooding

Lift Station

WRF Location

Lift Station Service Area

City of Clearwater WRF Service Area

Gravity Main

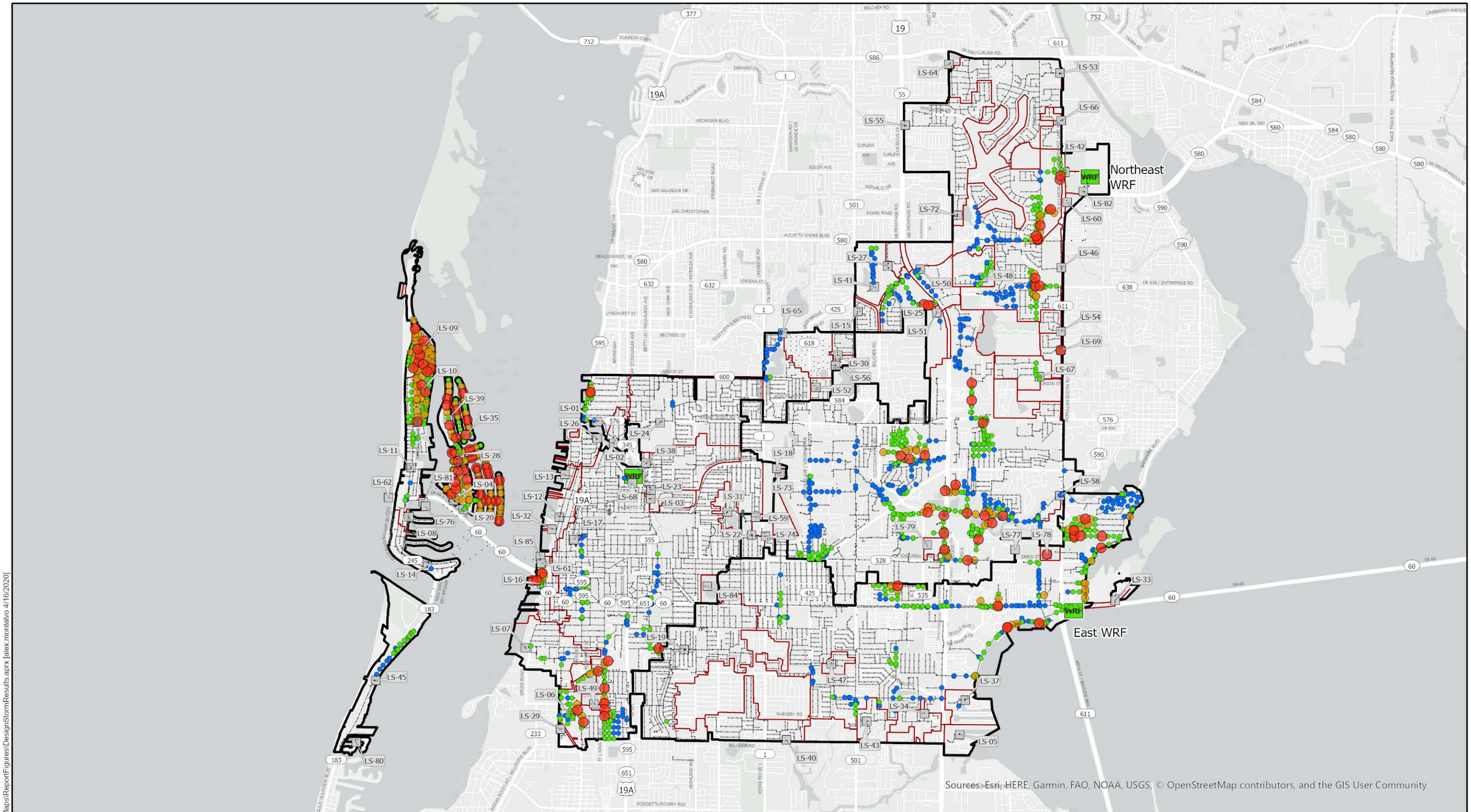
CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

Design Storm Sensitivity Analysis
50-year, 24-hour Event (11.10 in.)
NOAA Atlas 14 for Southeast Region 2, Quartile 1,
10th-Percentile Frequency Distribution

TETRA TECH

FIGURE 4-6

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\DesignStormResults.aprx [alex.montalvo 4/16/2020]



N

0 1 Miles

Source: City of Clearwater Utilities Data

LEGEND

Collection System Performance 100 Year Storm Event
- No surcharging projected
- Surcharging more than 5' from the ground
- Surcharging from 1'-5' from ground
- Surcharging within 1' of ground
- Surface Flooding

Lift Station

WRF WRF Location

Lift Station Service Area

City of Clearwater WRF Service Area

Gravity Main

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

Design Storm Sensitivity Analysis
100-year, 24-hour Event (13.30 in.)
NOAA Atlas 14 for Southeast Region 2, Quartile 1,
10th-Percentile Frequency Distribution

TETRA TECH

FIGURE 4-7

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\DesignStormResults.aprx [alex.montalvo 4/16/2020]

4.1.3 Design Storm Selection and Level of Service

The results of the rainfall sensitivity analysis were compared with two recent and extreme events that caused widespread SSOs across the City: Hurricane Hermine (August-September 2016) and a prolonged rainfall event in July-August 2015. For both events, precipitation data was obtained for three rain gauges in the Clearwater, Florida region (cities of Clearwater, Largo and Tampa). It should be noted that the Clearwater and Largo precipitation data were obtained from NOAA and only included 24-hour totals and therefore could not be used to evaluate intensities for periods less than 24-hours. **Figure 4-8** and **Figure 4-9** present and compare the data to NOAA Atlas 14 return frequency data for the city of Clearwater.

For Hurricane Hermine, the peak 24-hour rainfall volumes equated from a 1- to approximately a 7-year return period, depending on the rain gauge:

- NOAA Clearwater Gauge – 4-year return period for the 24-hour rainfall volume
- NOAA Largo Gauge – 7-year return period for the 24-hour rainfall volume
- City of Tampa Gauge - 1-year return period for the 24-hour rainfall volume

The Clearwater and Largo datasets show an increase in the return period with longer durations indicating the rainfall was long-duration and low intensity. The Clearwater and Largo datasets both showed approximately a 10-year, 48-hour return and peaked at approximately a 20-year, 5-day return.

For the July-August 2015 event, the data indicates the rainfall occurred over a long period of time with low intensity rainfalls. The peak 24-hour rainfall volume equates to a one-year storm. However, the peak 10- to 14-day periods are equivalent to a 25-year return frequency, meaning that they were prolonged.

These two historical events caused wide-spread capacity exceedances and SSOs. The City decided the master plan should be consistent with the return frequencies of these and other large storm events. These historical events were found to be the most comparable to the responses seen during the 25-year return period. For that reason, the City established a LOS of no SSOs in the system for a 25-year, 24-hour design storm event. For the master plan, the 25-year, 24-hour (9.23-inches) design storm with the NOAA Atlas 14, Quartile 1, 10-percent probability rainfall distribution was used.

Figure 4-8. Hurricane Hermine Return Period

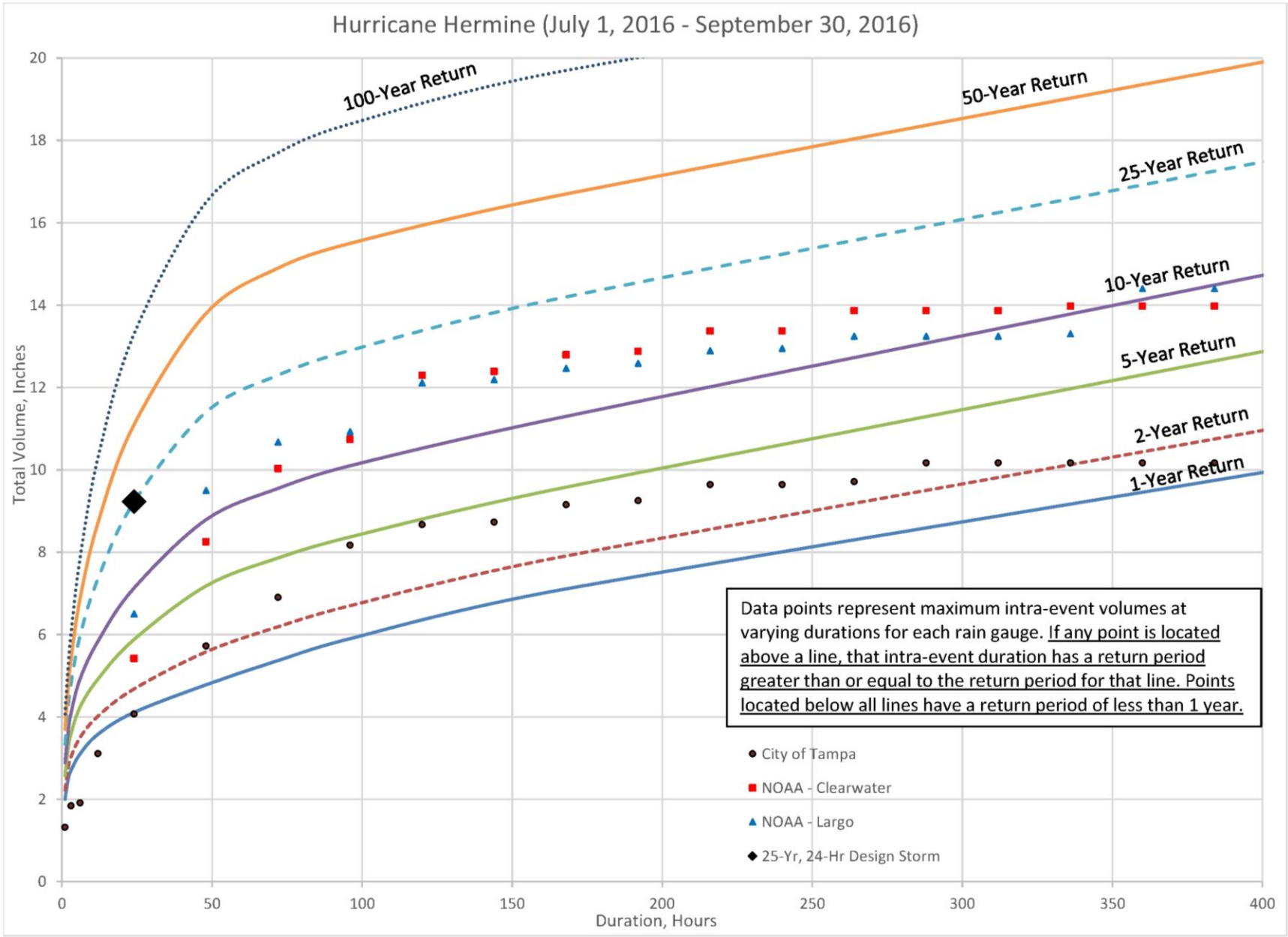
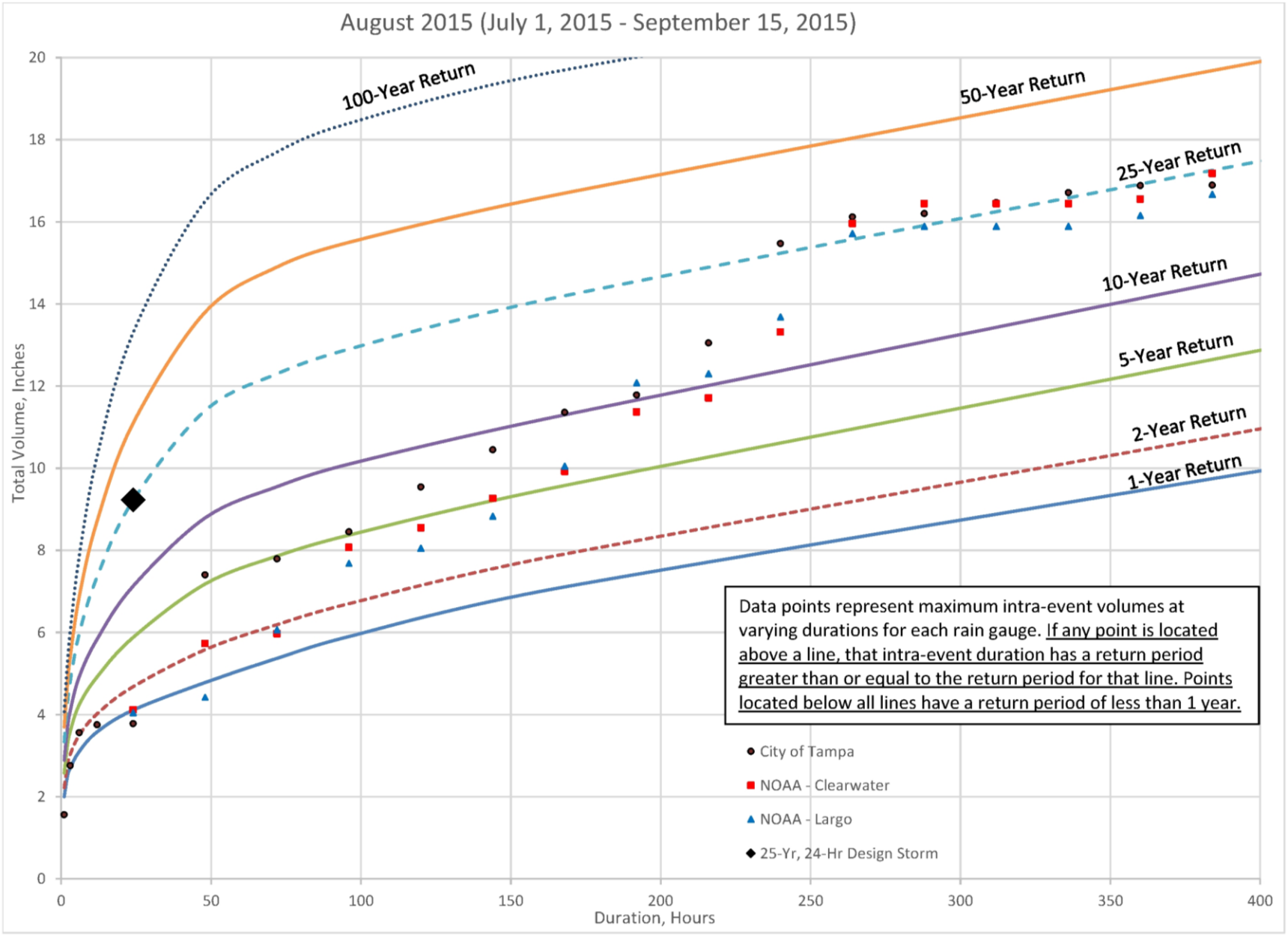


Figure 4-9. July-August 2015 Event Return Period



4.2 CAPACITY ANALYSIS

A capacity analysis compares the projected peak flows to conveyance capacity of the collection system. The capacity analysis for the City of Clearwater's gravity network was completed using projected flows for the 25-year, 24-hour design storm event (9.23-inches with a peak hour intensity rainfall intensity of 3.81 inches per hour). During the capacity analysis, the gravity mains, lift stations and force mains were evaluated to identify deficiencies in the system as it exists. The results from the capacity analysis were used to develop recommended capital improvement projects to the City. The target of the recommended capital improvement projects is to eliminate all projected SSOs in the wastewater collection system during the selected design storm.

4.2.1 Level of Service

A collection system's LOS is a measurement of the quality of the service provided by the collection system and individual mains. Existing infrastructure often has varying levels of service as design standards change with time. The hydraulic model was used to test the existing system to determine what LOS is currently being provided. The existing gravity mains, pump stations and force mains were evaluated for their conveyance capacity using the following criteria as the City's targeted LOS:

- **Gravity Mains** – The hydraulic grade line must not reach ground surface in existing infrastructure. In other words, the main must not surcharge to the ground level, causing surface flooding. For the newly sized mains included in the capital improvements, the main will be sized so that the hydraulic grade line does not exceed the crown of pipe.
- **Lift Stations** – The lift station must have sufficient pumping capacity to avoiding a backup of flow to the point of causing SSOs in the gravity system.
- **Force Mains** – Cannot exceed a velocity of 8 feet per second (fps) for long stretches of the force main lengths. In addition, pressures exceeding 50 pounds per square inch (psi) were flagged to discuss if pressure seems appropriate for given location and pipe material.

Flooding may still occur along mains that meet the LOS because there are many factors that cannot be predicted by the hydraulic model, such as flooding caused by structural failures or maintenance problems along public and private utilities. There are also situations where flooding can be caused by conditions that are different than those represented in the model. Soil moisture, rainfall patterns, and boundary conditions are some of the factors that if they differ from the conditions represented in the model may lead to a higher or lower risk of flooding.

4.2.2 Future Growth

Projected future growth was considered in the model for 2030 and 2050 conditions using population projections from traffic analysis zone (TAZ) data provided by the City. The existing dry weather flow components were adjusted on a per capita basis (gallons per capita per day) based on the population growth per basin. It should be noted that the wet weather component was not increased due to population or deterioration of the system over time. This assumes the City will maintain the current levels of I/I through its maintenance and rehabilitation efforts. If there were instances where population was projected to decrease in certain areas, the flows were not reduced, but rather left the same as the existing flows. Overall, population is predicted to increase in the City of Clearwater, therefore, the average flow per area increased in all WRF basins. The total dry weather flow in the system is predicted to increase from 11.3 MGD to 13.3 MGD (17 percent increase) from current to 2050 conditions, respectively. **Table 4-2** shows the overall flow increase per WRF Basin.

Table 4-2. Additional Model Dry Weather Flows for Projected Future Growth

	Inflows (MGD)			
	DWF (Diurnal Flow)	GWI (Baseflow)	Total	Total Percent Increase from Existing Inflow
Marshall Street WRF Basin				
Existing	1.78	3.25	**5.03**	**-**
2030	1.89	3.44	**5.33**	**6%**
2050	2.03	3.70	**5.73**	**14%**
East WRF Basin				
Existing	0.60	1.46	**2.07**	**-**
2030	0.68	1.65	**2.33**	**13%**
2050	0.78	1.90	**2.68**	**30%**
Northeast WRF Basin				
Existing	1.83	2.41	**4.24**	
2030	1.95	2.56	**4.51**	**6%**
2050	2.10	2.76	**4.86**	**15%**

4.2.3 Model Results

Surcharging is the condition where the hydraulic grade line in the main exceeds the pipe crown. Manholes are considered to be surcharging if the hydraulic grade line is higher than the crown of the main connected to the manhole. Surface flooding occurs when the hydraulic grade line reaches the ground surface.

The projected peak flow to each WRF is shown in **Table 4-3** for existing conditions and projected growth (2030 and 2050) during the 25-year, 24-hour design storm.

Table 4-3. Peak Flows to WRFs During 25-Year, 24-Hour Design Storm

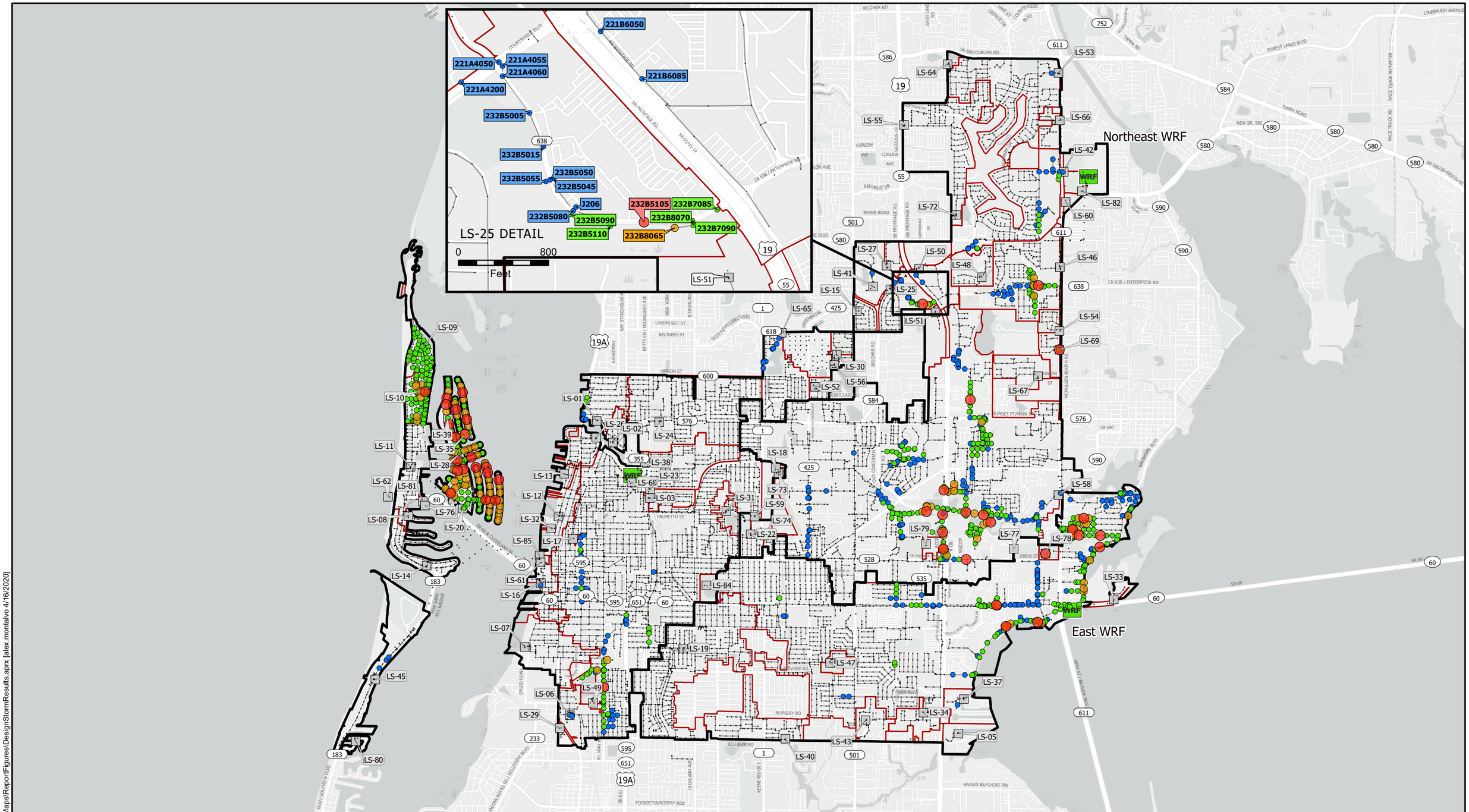
WRF	Total Peak Flow to WRF (MGD)		
	Existing Conditions (No Growth)	Projected 2030 Growth	Projected 2050 Growth
Marshall Street	27.1	27.8	28.7
East	22.1	23.6	25.4
Northeast	25.4	25.5	25.8

Table 4-4 presents the number of flooding manholes and total flooding volume during the 25-year, 24-hour design storm event for the existing conditions (no growth) and projected 2030 and 2050 conditions (with growth). The projected growth at 2030 conditions does not result in any new flooding locations but does increase the flood volume at existing locations by 8 percent. The 2050 growth conditions result in one new flooding location and 20-percent

additional flood volume (as compared to existing conditions). In **Section 4.1.2** of the report, **Figure 4-5** shows the surcharging and flooding manholes in the existing system during the 25-year, 24-hour design storm event. **Figure 4-10** and **Figure 4-11** show the surcharging and flooding manholes in the existing system with projected growth for 2030 and flooding 2050, respectively.

Table 4-4. Projected Flooding Manholes and Volume for the Existing Collection System

Design Storm	# of Flooding Manholes	Flooding Volume, MG
Existing	43	1.726
2030 Growth	43	1.870
2050 Growth	44	2.063



Source: City of Clearwater Utilities Data

N

0 1 Miles

LEGEND

Collection System Performance 25 Year Storm Event 2030 Growth

- No surcharging projected
- Surcharging more than 5' from the ground
- Surcharging from 1'-5' from ground
- Surcharging within 1' of ground
- Surface Flooding

Lift Station

WRF WRF Location

Lift Station Service Area

City of Clearwater WRF Service Area

Gravity Main

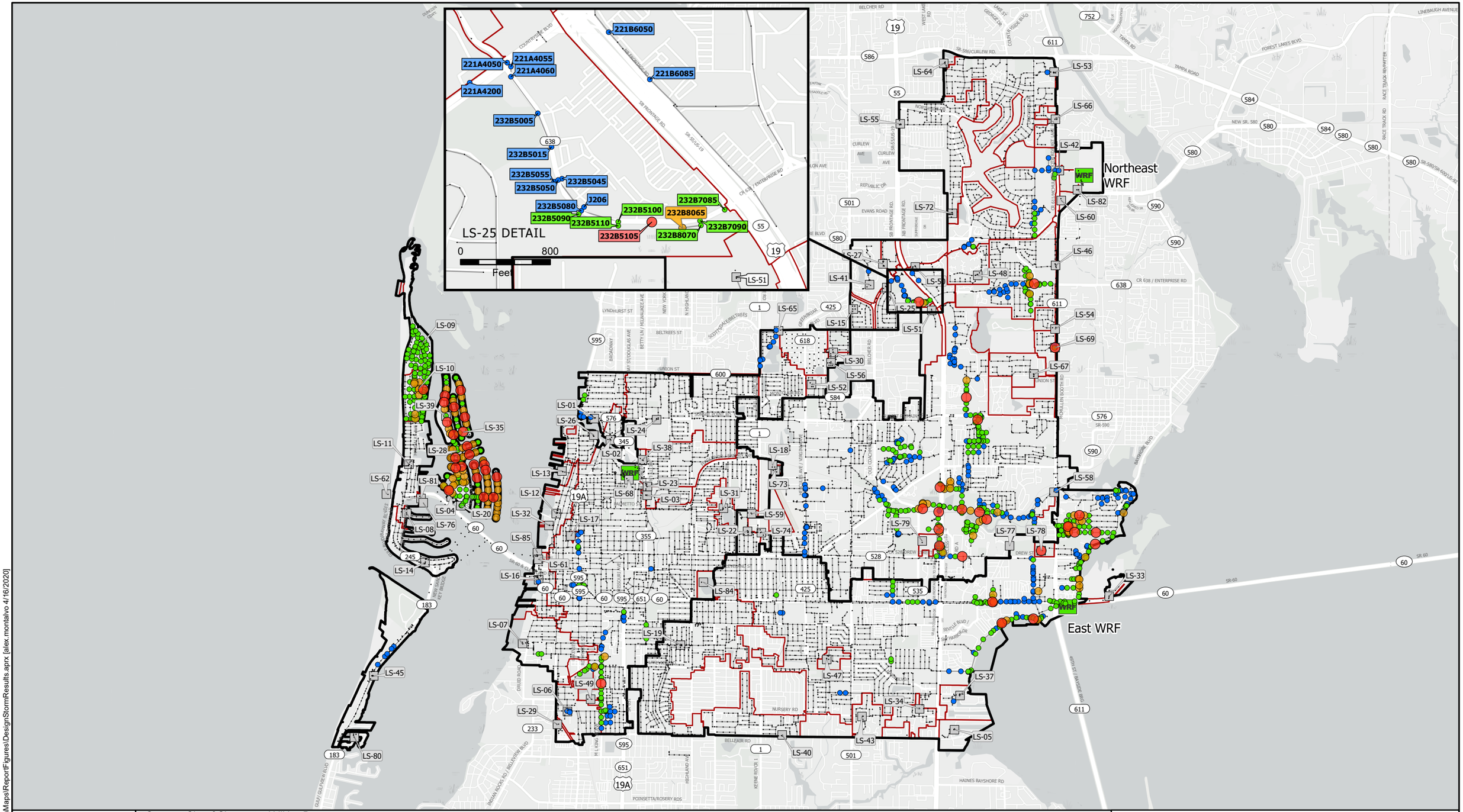
CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

System Performance Design Year Storm with 2030 Growth

TETRA TECH

FIGURE 4-10

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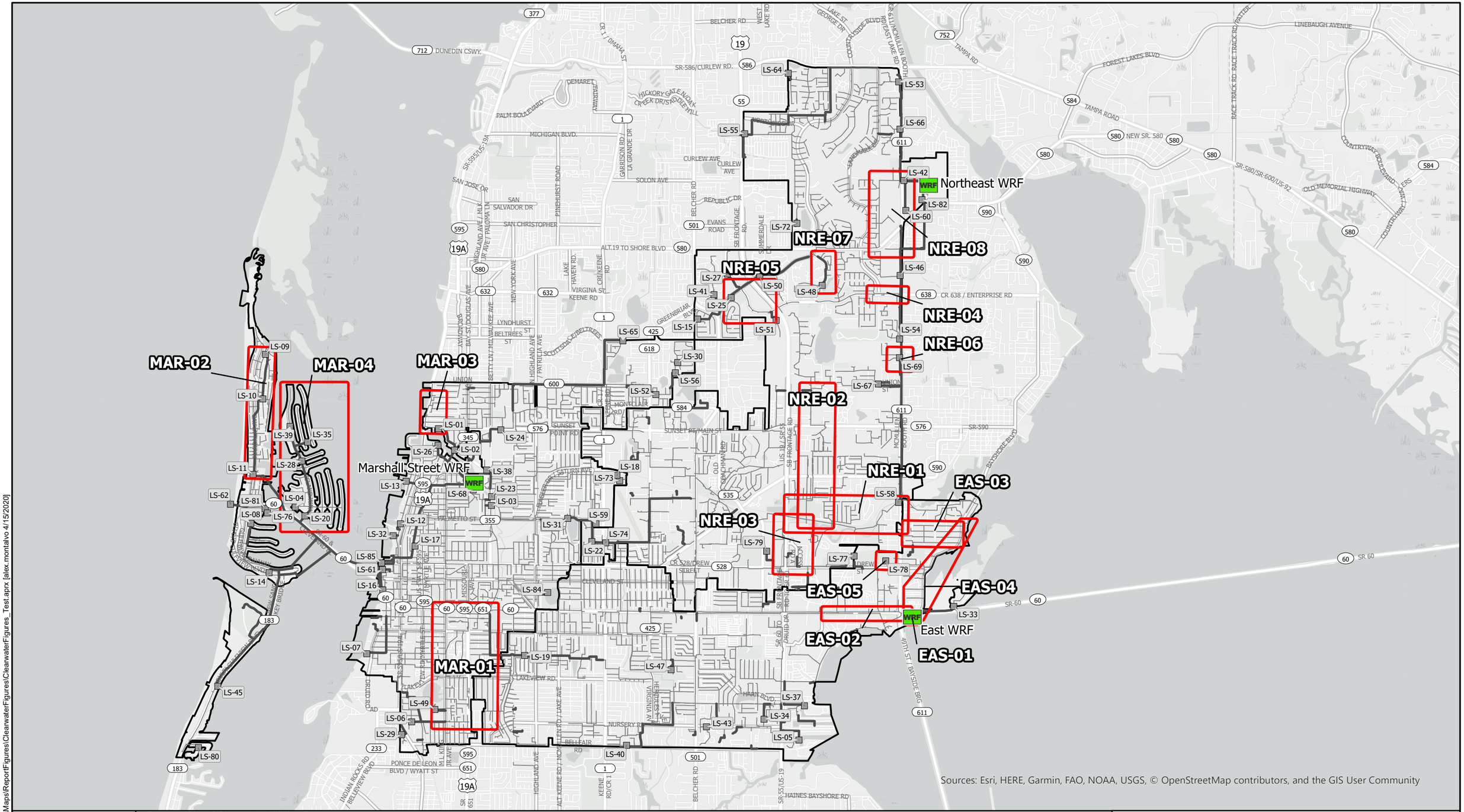

LS-25 DETAIL
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221A4050
221A4060
221B6085
221A4200
232B5005
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232B5015
232B5055
232B5045
232B5050
J206
232B5080
232B5100
232B7085
232B8065
232B5090
232B5110
232B7090
232B5105
232B8070
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19
LS-51
Northeast WRF
East WRF
WRF
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LS-102

Capacity limitations were found in all three WRF basins during the 25-year, 24-hour design storm event for both the existing conditions (no growth) and the 2030 and 2050 conditions (with growth).

- Marshall Street WRF Basin
  - Capacity Limitations Under Existing Conditions (No Growth)
    - **MAR-01**: Martin Luther King Junior Avenue – The gravity main has insufficient capacity to convey peak flow, causing flooding at MLK Jr. Avenue between South Street and Kingsley Street.
    - **MAR-02**: LS-09, LS-10 – These lift stations have insufficient capacity to convey peak flows, causing flooding upstream of both lift stations.
    - **MAR-04**: LS-20, LS-28, LS-35, LS-39 – These lift stations have insufficient capacity to convey peak flows, causing flooding upstream of all four lift stations. A limited amount of flow monitoring data was available for calibration at this site. See Section 0 for recommendations on additional flow metering in this area.
  - Additional Capacity Limitations at 2030 Projected Growth Conditions
    - **MAR-03**: LS-01 Area – The gravity main on Sunset Point Road and N. Fort Harrison Avenue has insufficient capacity to convey peak flows, causing projected surcharging within 1-foot of the ground, although no surface flooding is projected to occur.
  - Additional Capacity Limitations at 2050 Projected Growth Conditions
    - No new capacity issues identified.
- East WRF Basin
  - Capacity Limitations Under Existing Conditions (No Growth)
    - **EAS-01**: East WRF Influent Pump Station – The IPS lacks firm capacity to convey projected peak flows and causes projected flooding along the three main gravity mains that discharge to the WRF.
    - **EAS-02**: Gulf to Bay Boulevard – The gravity main from Sky Harbor Drive to the East WRF has insufficient capacity to convey peak flow, causing projected flooding at Gulf to Bay Boulevard.
    - **EAS-03**: Del Oro Groves Neighborhood – A local branch of gravity main (8-inch diameter) along San Mateo Street has insufficient capacity to convey projected peak flows, causing surface flooding in this residential neighborhood.
    - **EAS-05**: LS-78 – This simplex lift station, which collects flows from the Eddie C. Moore Softball Complex, is predicted to flood due to influent flows exceeding the lift station capacity. No pump curves were available at this location, and therefore it was modeled with a constant flow rate based on the draw-down test results. Further investigation is recommended before improvements are implemented at this site.
  - Additional Capacity Limitations at 2030 Projected Growth Conditions
    - No new capacity issues identified
  - Additional Capacity Limitations at 2050 Projected Growth Conditions
    - **EAS-04**: North Bayshore Boulevard – Under current flow routings, the gravity main has insufficient capacity to convey projected peak flows for the 2050 conditions scenario, causing flooding near North Bayshore Boulevard and San Jose Street, just behind a residential complex by the Old Tampa Bay coastline.

- Northeast WRF Basin
  - Capacity Limitations Under Existing Conditions (No Growth)
    - **NRE-01**: Trunk Gravity Main West of LS-58 – The trunk gravity main flowing west to east towards LS-58 has insufficient capacity to convey projected peak flows, causing approximately 10 manholes to flood in this area.
    - **NRE-02**: Sunset Point Road – insufficient capacity in gravity main downstream of Sunset Point Road to convey peak flow, causing flooding at Sunset Point Road.
    - **NRE-03:** 12-Inch Main West of US-19 – The main has insufficient capacity to convey peak flow, causing flooding at a branch of main connecting to the trunk main leading to LS-58, just west of US-19.
    - **NRE-04**: LS-46/Enterprise Road – The gravity main has insufficient capacity to convey peak flow, causing flooding upstream of LS-46 at Enterprise Road.
    - **NRE-05**: Gravity Main Upstream of LS-25 – The gravity main has insufficient capacity to convey peak flow, causing flooding upstream of LS-25 at Enterprise Road, just downstream of where the force main from LS-51 discharges.
    - **NRE-06**: LS-69 – This lift station is projected to flood due to inadequate head conditions during the projected design storm event.
    - **NRE-07**: LS-48's Forcemain – The existing 2,000-feet of 4-inch forcemain for LS-42 is predicted to have consistent velocities of over 8 fps, meaning that it undersized.
  - Additional Capacity Limitations at 2030 Projected Growth Conditions
    - **NRE-08**: Trunk Main Upstream of LS-42 – The main has insufficient capacity to convey projected peak flows for 2030 conditions leading to surcharging within 1-feet of ground surface along the 18- to 24-inch trunk main leading to LS-42, near the FL-580 highway, and causes flooding at Mayfair Court.
  - Additional Capacity Limitations at 2050 Projected Growth Conditions
    - **NRE-01**: LS-58 - Assuming no flooding occurs upstream of LS-58, this lift station is predicted to have insufficient capacity to convey the projected peak flows. This condition would cause surcharging more than 5-feet from the ground in the gravity main upstream of the lift station along McMullen Booth Road, but no flooding is predicted. The weir at McMullen Booth would be overtopped and about 8.6 MGD would be diverted to the East WRF. This condition would still meet the designated LOS and no improvement will be recommended this condition. Conditions at the East WRF are addressed in the capital program,

Figure 4-12 provides a map with the above-mentioned capacity issues within each basin. Sections 5, 6 and 7 of this report include additional detail on lift station capacities within each of the three WRF basins, including recommendations for capital improvements to address all capacity issues. Capital improvement projects were sized to provide a LOS for the 25-year, 24-hour design storm event under 2050 growth conditions.



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N

0 1 Miles

Source: City of Clearwater Utilities Data

LEGEND

- Capacity Issues
- City of Clearwater WRF Service Area
- WRF Location
- Lift Station
- Gravity Main
- Force Main

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

CAPACITY ISSUES

TETRA TECH

FIGURE 4-12

5.0 MARSHALL STREET WRF BASIN

5.1 INTRODUCTION

The Marshall Street WRF basin is the largest of the three basins and includes much of the older assets in the system. Its service area covers the western half of the City including Clearwater Beach, and the downtown area. The basin includes 43 lift stations; however, a large portion of the area drains directly to the WRF. **Figure 5-1** presents an overview of the Marshall Street WRF Basin.

5.2 GRAVITY LINES

5.2.1 Inventory

The Marshall Street basin contains 181 miles of gravity main, ranging in size from 2-inches to 36-inches. Most gravity mains are constructed of vitrified clay pipe followed by polyvinyl chloride (PVC) and other materials. Approximately 5.3% of the gravity mains is identified as lined and 15.5% is of unknown material. **Tables 5-1** and **5-2** present the breakdown of sizes and material for the Marshall Street Basin.

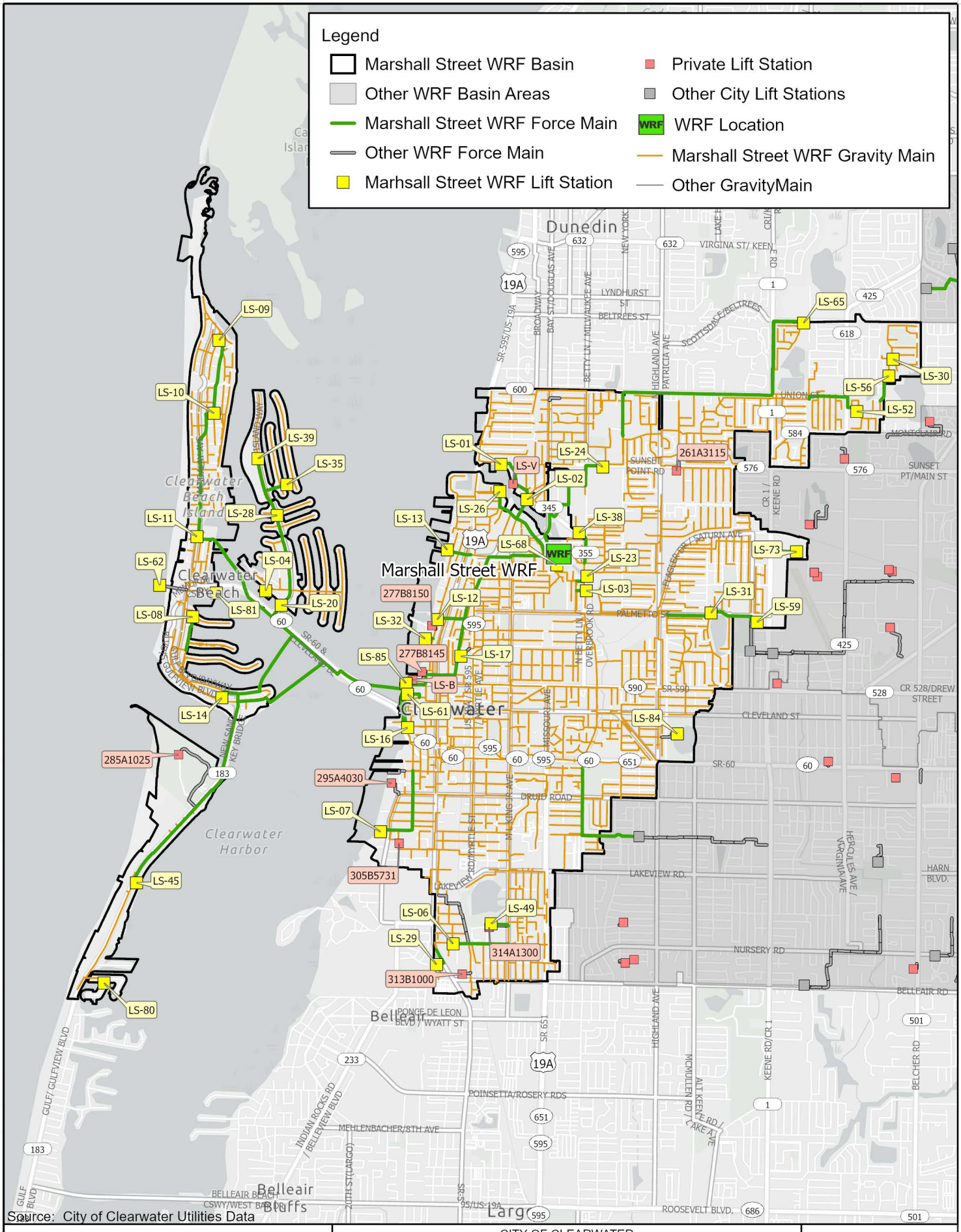
Gravity pipes less than 8-inches should be field inspected to verify the pipe diameter or determine if they should be categorized as laterals.

Table 5-1. Marshall Street WRF Basin Gravity Mains Diameter Summary

Diameter (in)	Length (ft)	Percentage
2-inch	40	0.00%
3-inch	163	0.02%
4-inch	750	0.08%
6-inch	10,752	1.12%
8-inch	819,278	85.52%
10-inch	39,611	4.14%
12-inch	29,069	3.04%
14-inch	113	0.01%
15-inch	28,797	3.01%
16-inch	397	0.04%
18-inch	11,268	1.18%
20-inch	1,122	0.12%
24-inch	9,409	0.95%
30-inch	5,847	0.61%
Unknown	1,490	0.16%
Total	**956,801**	**100%**

Table 5-2. Marshall Street WRF Basin Gravity Mains Material Summary

Material	Length (ft)	Percentage
Cast Iron	23,706	2.48%
Concrete Pipe	1,209	0.13%
Clay Tile	394	0.04%
Ductile Iron Pipe	10,465	1.09
Fiberglass Reinforced Pipe	63,316	6.62%
Lined	50,788	5.31%
Polyethylene	155	0.02%
Polypropylene	195	0.02%
Polyvinyl Chloride	123,009	12.85%
Reinforced Concrete Pipe	1,509	0.16%
Reinforced Plastic Pipe	809	0.08%
Vitrified Clay Pipe	534,128	55.82%
Unknown	147,118	15.45%
Total	**956,801**	**100%**



Source: City of Clearwater Utilities Data

TETRA TECH

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

MARSHALL STREET WRF BASIN OVERVIEW

FIGURE 5-1

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5.2.2 Condition Assessment

The condition for the gravity system in the Marshall Street WRF basin is shown in **Figure 5-2**. The condition for 53% of the pipe length was obtained from CCTV data and the condition for the remaining 47% was estimated using age and pipe material. Approximately 358,000 feet or 43% of the system is identified as condition 4 or 5 and is interspersed throughout the service area. Since this basin contains some of the oldest assets in the system and a high percentage of vitrified clay pipe, a high percentage of 4 and 5 conditions can be expected.

5.2.3 Business Risk Evaluation

Figure 5-3 provides a summary of the BRE results. Most of the priority mains consists of short segments throughout the basin rather than long stretches of pipe. Clusters of priority mains are located at the beach around LS-11, around the Marshall Street WRF and along Kilgore Ave. A total of 2,406 feet of the total pipe length requires high priority-program rehab or priority-program rehab action.

Legend

- Marshall Street WRF Basin
- Other WRF Basin Areas
- WRF Location
- Marshall Street WRF Lift Station
- Private Lift Station
- Other City Lift Stations

Gravity Main Condition

- 5
- 4
- 3
- 2
- 1
- Other Gravity Main

Marshall Street WRF

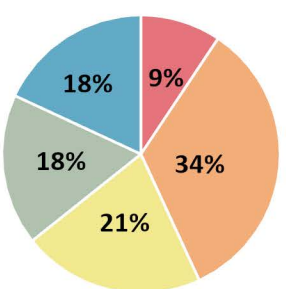
LS-09 LS-10 LS-39 LS-35 LS-11 LS-28 LS-62 LS-81 LS-04 LS-08 LS-20 LS-14 LS-45 LS-80 LS-01 LS-24 LS-V LS-26 LS-02 LS-38 LS-13 LS-68 LS-23 LS-03 LS-12 LS-32 LS-B LS-85 LS-17 LS-16 LS-07 LS-06 LS-49 LS-29 LS-73 LS-31 LS-59 LS-84 LS-65 LS-30 LS-56 LS-52

277B8150 277B8145 285A1025 295A4030 305B5731 314A1300 313B1000 261A3115

PALM BOULEVARD; MICHIGAN BLVD.; SR-595/US-19A; SAN JOSE DR; SAN SALVADOR DR; SAN CHRISTOPHER; PINEHURST ROAD; HIGHLAND AVE / MLK JR AVE / PALOMA LN; ALT.19 T; REALIGNMENT, SR 580; VIRGINIA ST/ KEENE RD; BROADWAY; BAY ST/DOUGLAS AVE; NEW YORK AVE; LYNDHURST ST; BELTREES ST; BETTY LN / MILWAUKEE AVE; N HIGHLAND AVE / PATRICIA AVE; SCOTTSDALE/BELTREES; GREENBRIAR BLVD; UNION ST; MONTCLAIR RD; CR 1 / KEENE RD; SUNSET POINT RD; SUNSET PT/MAIN ST; MARSHALL ST / FAIRMONT ST / DOUGLAS AVE; FLAGLER DR / SATURN AVE; PALMETTO ST; N BETTY LN / OVERBROOK RD; US 19A / SR 595 / MYRTLE AVE; CHESTNUT ST / COURT ST / SR 60; COURT STREET / SR 60 WB; MISSOURI AVE; CLEVELAND ST; SR-590; SR-60; LAKEVIEW RD.; MYRTLE ST; M L KING JR AVE; DRUID ROAD; BELLEAIR RD; NURSERY RD; VIRGINIA AVE; HERCULES AVE; BELCHER RD; HARN BLVD.; PONCE DE LEON BLVD / WYATT ST; INDIAN ROCKS RD / BELLEVIEW BLVD; SR 651; POINSETTIA/ROSERY RDS; MEHLENBACHER/8TH AVE; 20TH ST (LARGO); BELLEAIR BEACH CSWY/WEST BAY DR; SR-595/US-19A; ROOSEVELT BLVD.; GULF/ GULFVIEW BLVD; MANDALAY AVE; ISLAND WAY; MORIAH CSWY; HAMDEN/CORONADO DR; GULFVIEW BLVD; GULFVIEW BLVD WEST; NEW SAND KEY BRIDGE; 19A; 183; 245; 233; 595; 632; 580; 576; 345; 355; 600; 651; 686; 584; 425; 528; 501; 618; 590; 60; 1

Gravity Main Condition

Unserviceable	5	77,836	9%
Renewal Req.	4	280,630	34%
Main. Req.	3	176,218	21%
Minor Defects	2	146,585	18%
Very Good	1	150,426	18%
Sub Total		831,694	100%



Source: City of Clearwater Utilities Data

TETRA TECH

0 N 3,000 Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

MARSHALL STREET WRF BASIN
GRAVITY PIPING CONDITION

FIGURE 5-2

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\ClearwaterFigures_Test.aprx_FIGURE 5-2[betty.morris 5/21/2021]

Legend

- Marshall Street WRF Basin
- Other WRF Basin Areas
- WRF Location
- Marshall Street WRF Lift Station
- Private Lift Station
- Other City Lift Stations

Gravity Main BRE Result

- 4
- 3
- 2
- 1
- Other Gravity Main

Marshall Street WRF

LS-09, LS-10, LS-39, LS-35, LS-11, LS-28, LS-62, LS-81, LS-04, LS-08, LS-20, LS-14, 285A1025, LS-45, LS-80, LS-07, 305B5731, LS-01, LS-V, LS-26, LS-02, LS-24, 261A3115, LS-38, LS-13, LS-68, LS-23, LS-03, LS-12, 277B8150, LS-32, 277B8145, LS-85, LS-17, LS-16, 295A4030, LS-84, LS-65, LS-30, LS-56, LS-52, LS-73, LS-31, LS-59, LS-49, 314A1300, LS-06, LS-29, 313B1000

PALM BOULEVARD, MICHIGAN BLVD., SR-595/US-19A, SAN JOSE DR., SAN SALVADOR DR, SAN CHRISTOPHER, PINEHURST ROAD, HIGHLAND AVE / MLK JR AVE / PALOMA LN, REALIGNMENT, SR 580, 580, 595, 632, 19A, VIRGINIA ST/ KEENE RD, BROADWAY, BAY ST/DOUGLAS AVE, NEW YORK AVE, LYNDHURST ST, BELTREES ST, BETTY LN / MILWAUKEE AVE, N HIGHLAND AVE / PATRICIA AVE, SCOTTSDALE/BELTREES, GREENBRIAR BLVD, 425, 618, 1, 600, UNION ST, MONT CLAIR RD, 584, 576, SUNSET POINT RD, SUNSET PT/MAIN ST, CR 1 / KEENE RD, 345, 355, FAIRMONT ST / DOUGLAS AVE, MARSHALL ST, FLAGLER DR / SATURN AVE, PALMETTO ST, OVERBROOK RD, MYRTLE AVE, US 19A / SR-595 / MYRTLE AVE, SR-60 & CLEVELAND BL - CHESTNUT ST / COURT ST / SR 60, PIERCE ST/DREW ST, 60, 245, 183, COURT STREET / SR 60 WB, MISSOURI AVE, 590, SR 590, 528, CLEVELAND ST, MLK JR AVE, SR-60, LAKEVIEW RD, DRUID ROAD, HERCULES AVE, VIRGINIA AVE, NURSERY RD, BELLEAIR RD, SR 651, PONCE DE LEON BLVD / WYATT ST, INDIAN ROCKS RD / BELLEVIEW BLVD, 233, 651, POINSETTIA/ROSERY RDS, MEHLENBACHER/8TH AVE, 20TH ST (LARGO), BELLEAIR BEACH CSWY/WEST BAY DR, SR-595/US-19A, ROOSEVELT BLVD., 686, 501, BELCHER RD, HARN BLVD., CR 528/DREW STREET, GULF/ GULFVIEW BLVD, GULFVIEW BLVD, MEMORIAL CSWY, HAMDEN/CORONADO DR, ISLAND WAY, MINDANAO WAY, MINDANAO AVE, NEW SAND KEY BRIDGE

Gravity Main BRE Result

High Priority Immediate	High Priority Program Rehab	Priority Program Rehab	Frequent Condition Evaluation	Regular Monitoring	Sub Total
0	2,407	202,301	330,618	296,369	831,694

Gravity Main Criticality

Gravity Main Condition		Severe 5	Significant 4	Moderate 3	Low to Moderate 2	Low 1	Sub Total
Unserviceable	5	0	2,333	34,869	39,548	1,085	77,836
Renewal Req.	4	73	8,277	118,521	151,694	2,064	280,630
Main. Req.	3	0	3,702	73,843	96,674	1,999	176,218
Minor Defects	2	82	2,559	57,342	86,602	0	146,585
Very Good	1	124	7,104	58,041	84,006	1,150	150,426
	Sub Total	279	23,976	342,616	458,523	6,299	831,694

Source: City of Clearwater Utilities Data

TETRA TECH

0 3,000 Feet N

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

MARSHALL STREET WRF BASIN
GRAVITY PIPING BRE RESULTS

FIGURE 5-3

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\ClearwaterFigures_Test.aprx_FIGURE 5-3[betty.morris 5/21/2021]

5.3 LIFT STATIONS

5.3.1 Inventory

There are a total of 41 lift stations in the Marshall Street Basin. **Figure 5-4** presents a schematic of the lift stations showing the routing of wastewater flow to the WRF and **Table 5-3** provides a summary of the lift stations. The lift stations are a combination of small stations that are tributary to larger lift stations and large stations that pump through a manifolded force main system directly to the Marshall Street WRF. There are also 13 private lift stations that pump wastewater into the collection system.

Major lift stations in the service area, with single pump capacities greater than 1,000 gpm include:

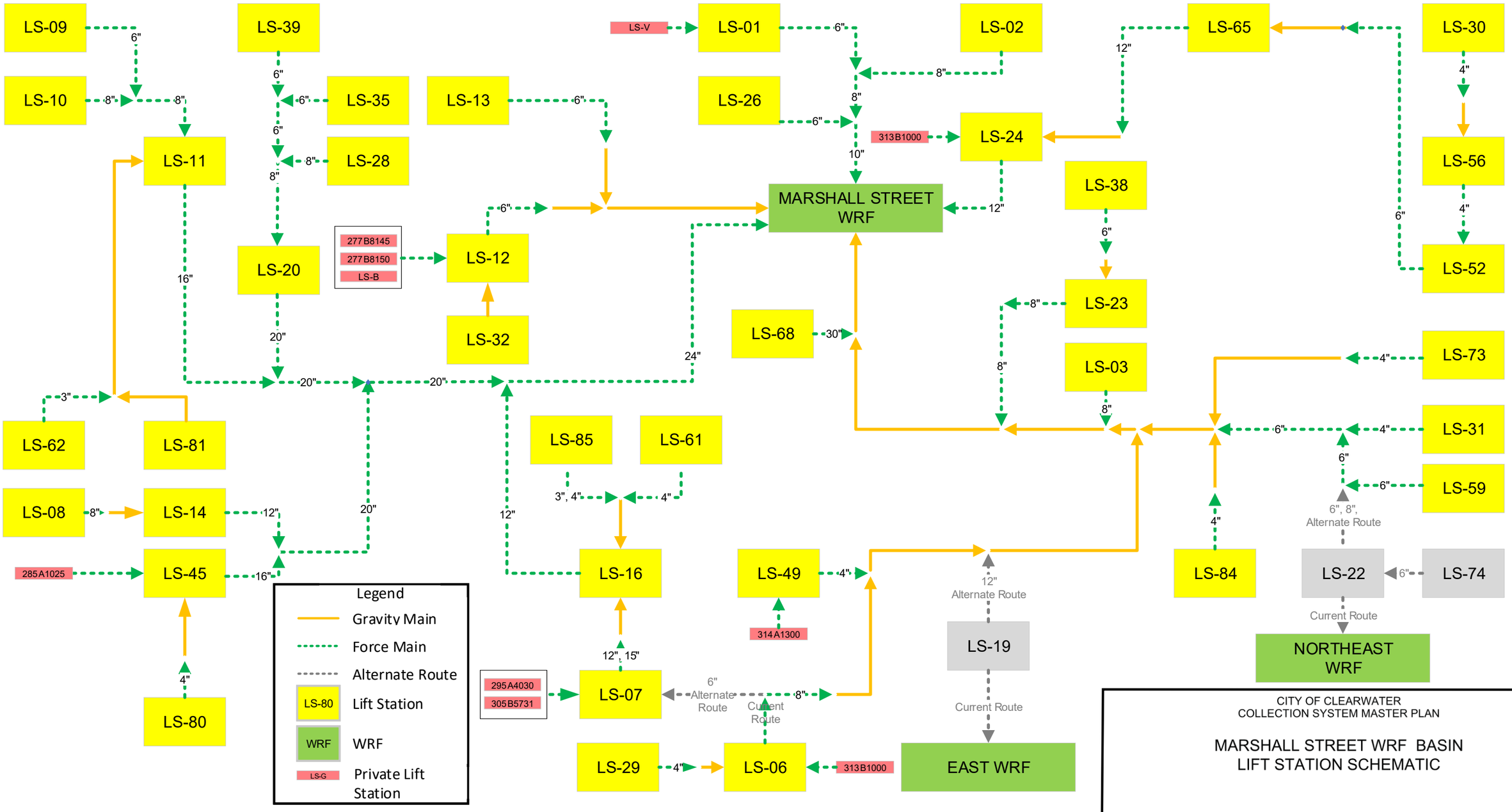
- LS-07 in the southwest part of the basin that can potentially receive flow from LS-06 and LS-29 depending on flow routing.
- LS-11 one of three master lift stations on the beach that also receives flow from a large portion of the north beach area including LS-09, LS-10, LS-62 and LS-81.
- LS-14 the second of the three beach master lift stations also receiving flow form LS-45.
- LS-20 the third master lift station on the beach receiving flow from LS-28, LS-35 and LS-39.
- LS-24 receiving the flow from a north portion of the basin, including LS30, LS-52, LS-56, and LS-65.
- LS-45 Sand Key that receives flow from LS 80.

These lift stations with single pump capacities greater than 1,000 gpm are highlighted in orange within **Table 5-3**.

Most lift stations have fixed discharge points with the exception of the following:

- LS-06 in normal operation discharges directly to the Marshall Street WRF, however it also has the ability to pump into LS-07. This bypass route, however, has not been used.
- LS-19 which normally pumps to the East WRF can be pump to the Marshall Street WRF basin if flows need to be diverted from the East WRF.
- LS-22 which normally pumps to the Northeast WRF can be pumped to the Marshall Street WRF basin to relieve high flows to LS-58.

Marshall Street WRF
Service Basin Schematic



CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

MARSHALL STREET WRF BASIN
LIFT STATION SCHEMATIC

TETRA TECH

FIGURE 5-4

Table 5-3. Marshall Street WRF Tributary Lift Station Data

Lift Station	Approximate Address	No. of Pumps	Wet Well Size (feet)	Wet Well Depth (feet)	Pump Best Efficiency Point[1]		Measured Pump Drawdown (gpm) P1/P2/P3[2]	Measured Pump Discharge Pressure (feet) P1/P2/P3[3]
					Flow (gpm)	TDH (feet)		
1	1053 Sunset Point Rd.	2	6	11.3	Not Available[1]	Not Available[1]	196/217/X	-/53
2	1818 Washington Ave.	2	6	10.5	620	35.5	275/331/X	-/32
3	1119 N. Betty Ln.	2	9'-4" x 8'-4"	18.5	620	35.5	815/562/X	14/-
6	599 Woodlawn St.	2	6	15.1	350	40	203/337/X	-
7	205 Jeffords St.	3	10	14.7	620	65	1253/1155/X	-
8	212 Hamden Dr. @ Devon Dr.	2	8 x 9'-4"	13.4	500	30.5	726/726/X	14/-
9	995 Bruce Ave. @ Narcissis Ave.	2	6	13.7	Not Available[1]	Not Available[1]	299/249/X	-
10	830 Lantana Ave. @ Verbena St.	2	6	11.5	460	49	325/276/X	-
11	530 Mandalay Ave.	2	8	18	1480	122	Not Available[2]	-
12	900 N. Osceola Ave. @ Nicholson St.	2	8	10.5	Not Available[1]	Not Available[1]	485/510/X	55/-
13	W. end of Marshall St. @ Clearwater Bay	2	10' x 6'	10	460	49	254/30/X	-
14	501 Parkway Dr. @ Gulfview Blvd.	2	11.5 (dia.)	22	1480	122	1856/2141/X	-
16	106 Pierce St. (S of City Hall)	2	10 (dia.)	23.2	1060	98.7	671/965/X	-
17	400 N. Myrtle Ave.	2	4 (dia.)	10	81	33.5	Under Construction	-
18	1650 N. Arcturas Ave.	1	4 (dia.)	7	Not Available[1]	Not Available[1]	53/X/X	-

Table 5-3. Marshall Street WRF Tributary Lift Station Data (Continued)

Lift Station	Approximate Address	No. of Pumps	Wet Well Size (feet)	Wet Well Depth (feet)	Pump Best Efficiency Point[1]		Measured Pump Drawdown (gpm) P1/P2/P3[2]	Measured Pump Discharge Pressure (feet) P1/P2/P3[3]
					Flow (gpm)	TDH (feet)		
20	16 Island Way (Island Estates)	2	10 (dia.)	24.4	1075	97.5	1362/1382/X	-
23	1302 N. Betty Ln. Overlea Dr.	2	10 (dia.)	13.3	760/1025	69/49	1382/931/X	-
24	1351 Sunset Point Rd.	3	14'-4" x 22'-8"	11.5	1550/1150	47/87	1518/1383/1389	127/65/81
26	1060 Calumet St. @ Apache Trail	2	6 (dia.)	15	500	30.5	278/268/X	25/28
28	499 Island Way @ Palm Island	2	5.75 (dia.)	16.6	420/420	28.5/44	346/385/X	-
29	509 Howard Ct.	2	6 (dia.)	15	460	49	200/214/X	46/51
30	2201 Cypress Point Dr. (@ Allard Dr.)	2	6 (dia.)	18.7	320	20.8	203/246/X	-
31	1616 Palmetto St. (@ Richards Ave.)	2	4 (dia.)	15.3	600	11	100/X/X	-
32	301 Eldridge St.	2	4 (dia.)	9.4	165	15.6	88/72/X	15/-
35	355 Harbor Passage (Island Estates)	2	6 (dia.)	16.2	350	40	301/266/X	-
38	1719 Overbrook (@ Jade St.)	2	4' x 10'	12.8	Not Available	-	299/329/X	-
39	713 Island Way	2	6 (dia.)	14	420	44	247/289/X	-
45	171 Gulf Blvd. S. (Sand Key)	2	12' x 12'	18.5	1480	122	1725/1222/X	-
49	1426 S. MLK Ave (@ Ross Norton Pool)	2	5 (dia.)	9	400	34	147/147/X	-

Table 5-3. Marshall Street WRF Tributary Lift Station Data (Continued)

Lift Station	Approximate Address	No. of Pumps	Wet Well Size (feet)	Wet Well Depth (feet)	Pump Best Efficiency Point[1]		Measured Pump Drawdown (gpm) P1/P2/P3[2]	Measured Pump Discharge Pressure (feet) P1/P2/P3[3]
					Flow (gpm)	TDH (feet)		
52	2019 Charter Oaks Dr.	2	6 (dia.)	11.5	320/325	20.8/26.8	331/225/X	-
56	2150 Beverly Ln. (Marla Groves)	2	6 (dia.)	11.5	320	20.8	99/X	-
59	901 N. Saturn Ave	2	2 (dia.)	6	Not Available	-	39/X	-
61	-	2	4 (dia.)	7	Not Available	-	153/X	-
62	Pier 60 Bait House	1	4 (dia.)	7.3	Not Available	-	19/X	-
65	1881 Virginia St.	3	10’ x 10’	22	Not Available	-	556/556/X	-
68	1190 Russell St.	2	5’x 8’	4.3	Not Available	-	50/X/X	12/-
73	1650 N. Arcturas Ave. (Bldg. D)	2	6 (dia.)	9.4	Not Available	-	99/X/X	-
76	-	2	-	-	Not Available	-	X/X/X	-
80	1621 Gulf Blvd. (Moorings of Sand Key)	2	6 (dia.)	16.5	320	21	260/X/X	-
81	71 Causeway Blvd.)	2	4 (dia.)	7	210	14.75	107/119/X	-
85	-	2	4 (dia.)	6	Not Available	-	24/28/X	-

Notes:

[1]Pump efficiency points are not available if pump curves were not received.

[2]Drawdown testing was not available for all lift stations because of accessibility issues, safety concerns, or corroded/missing guide rails. An X indicates no pump or untested pump.

[3]Pump discharge pressure was measured via pressure gauge, if available. A majority of the lift stations did not have a pressure gauge, and if they did, only one pressure gauge was typically functioning.

[4]Lift stations highlighted in orange include pumps with single pump capacities greater than 1,000 gpm.

5.3.2 Condition Assessment

Table 5-4 presents a summary of the lift station condition based on field inspections conducted by Tetra Tech including a composite condition score and the score of the most severe components. The lift station elements that most frequently scored high (i.e. poor condition) included pressure gauges, service conduit, and guiderails. Corroded discharge pipe, leaking valves and corroded control panels were also prevalent.

The highest composite scores are at LS-59, LS-61, LS-65, and LS-68. All but LS-65 are among the smaller lift stations in the system. LS-65 receives flow from three tributary stations and is one of the few triplex pump stations in the service area. Many components at this lift station were scored as a five including the guiderails, main disconnect and alarm light. There was also evidence of corrosion in the wet well. Currently a work order is in place to rehabilitate LS-65.

Condition issues at the major lift stations (those with single pump capacity greater than 1,000 gpm) included loose guide rails, corroded discharge valves and corroded control panels. LS-13 had an inoperable pump.

Figure 5-5 presents a summary of the lift station condition score based on the composite score. LS- 59, LS-65 and LS-68 all have a composite score of greater than 3.5 (rounded to 4), requiring renewal. Of the remaining lift stations, 29 require maintenance to correct issues found during the inspections. None of the lift stations were found to be in unserviceable condition.

Table 5-4. Marshall Street WRF Tributary Lift Station Ratings and Scores

No.	Composite Condition Score	Most Severe Score	Most Severe Condition Component(s)	Other Comments
68	3.82	5	Service conduit, Control Panel	Equipment mounting rack rusted, control panel, conduit, and circuit breakers need repair/replacement.
65	3.77	5	Guide Rails Pump, Pressure Gauge, Service conduit, Service Disconnect (Main Switch), Alarm light, Duplex Receptacle	Evidence of concrete corrosion in wet well, also needs cleaning. Broken rails (couldn't pull pumps). Pressure gauge needs replacement. Original seal offs in conduit failed, allowing H2S gas into control panel. Surface corrosion on main switch.
59	3.57	5	Service conduit, Control Panel	Control panel and conduit need replacement.
61	3.5	5	Service conduit, Control Panel	Wet well discharge risers corroded. Repair/replace control panel, conduit, mounting rack, and circuit breakers.
3	3.43	5	Service Conduit	Repair/replace service conduit. Evidence of concrete corrosion, spalling, and cracking.
31	3.39	5	Service conduit, Control Panel	Wet well needs cleaning, valves corroded and vault not draining. Service conduit and control panel need replacement.
38	3.25	5	Pressure Gauge, Service conduit	Repair/replace control panel and service conduit.
76	3.25	4	Structure	Repair/replace wet well structure.
18	3.15	5	Service conduit, Control Panel	Service conduit and control panel need repair/replacement.
13	3.14	5	Submersible Pumps, Pressure Gauge	Evidence of concrete corrosion. Control floats should be replaced. Pump did not pump down, rails shaking and wrapped in cables. Valves rusted, and pressure gauge needs replacement.
56	3.08	4	Landscaping surrounding PS, Check Valves, Plug Valves, Service conduit, Service Disconnect (Main Switch), Alarm light, Circuit Breakers, Duplex Receptacle	Rusted check and plug valves. Seal offs not sealed, surface corrosion on main switch.
80	2.97	5	Equipment Mounting Rack, Alarm light	Repair/replace equipment mounting rack, surge suppressor, alarm light.
73	2.95	5	Service conduit	No seal offs on conduit. Control panel and circuit breakers need repair/replacement.

Table 5-4. Marshall Street WRF Tributary Lift Station Ratings and Scores (Continued)

No.	Composite Condition Score	Most Severe Score	Most Severe Condition Component(s)	Other Comments
52	2.93	4	Equipment Mounting Rack, Service conduit, Alarm light	Plug valve on wrong side of check valve. Equipment mounting rack rusted, no seal offs on conduit.
11	2.86	5	Pressure Gauge	Pressure gauge needs replacement. Evidence of spalling and cracking. Wet well needs cleaning.
4	2.86	4	Service Conduit	Repair/replace service conduit. Could not open wet well. Located within aquarium, equipment stored on top of hatch.
23	2.83	4	Driveway, Wet Well Discharge Risers, Check Valves, Plug Valves, Equipment Mounting Rack, Surge Suppressor, Control Panel, Alarm light	Wet well needs cleaning. Valves rusted and leaking. Corrosion in control panel.
35	2.8	5	Pressure Gauge, Service conduit	Service conduit and pressure gauge need replacement.
16	2.76	5	Guide Rails Pump, Pressure Gauge	Guide rails broken, pressure gauge needs replacement.
81	2.76	4	Control Panel, Alarm light	Repair/replace control panel and alarm light. Wet well needs cleaning. Hatch to valve vault cannot be opened.
14	2.7	5	Service Disconnect (Main Switch)	Surface corrosion on conduits into wet well. Main switch needs replacement. Rails loose.
49	2.7	4	Control Panel, Alarm light, Circuit Breakers	Repair/replace control panel, circuit breakers, alarm light.
62	2.65	4	Service conduit	Repair conduit, no seal offs present.
12	2.65	3	Structure, Lining/Coating, Level Sensor, Control Floats, Access Hatch, Wet Well Discharge Risers, Wet Well Influent Pipe, Submersible Pumps, Check Valves, Plug Valves, Surge Suppressor, Control Panel, Circuit Breakers, Duplex Receptacle	Wet well needs cleaning.
26	2.63	4	Driveway	Wet well needs cleaning, driveway in need of repair.
45	2.55	4	Vent, Wet Well Discharge Risers, Fuel tank	Wet well needs cleaning. Discharge risers corroded.
2	2.53	3	Lining/Coating, Level Sensor, Control Floats, Access Hatch, Wet Well Influent Pipe, Submersible Pumps, Valve Vault, Check Valves, Plug Valves, Pressure Gauge	Wet well needs cleaning.

Table 5-4. Marshall Street WRF Tributary Lift Station Ratings and Scores (Continued)

No.	Composite Condition Score	Most Severe Score	Most Severe Condition Component(s)	Other Comments
9	2.5	5	Pressure Gauge	Pressure gauge needs replacement.
8	2.5	4	Lining/Coating, Wet Well Discharge Risers	Repair/replace wet well lining/coating and discharge risers. Wet well needs cleaning.
24	2.43	4	Service conduit	Service conduit needs replacement.
1	2.42	4	Control Floats, Pressure Gauge	Wet well needs cleaning, control floats not working properly. Pressure gauge needs replacement.
85	2.41	3	Landscaping surrounding PS, Structure, Control Floats, Access Hatch, Wet Well Influent Pipe, Service conduit, Alarm light	Wet well, control floats, influent pipe, conduit, and alarm light need maintenance.
6	2.4	4	Pressure Gauge	Pressure gauge needs replacement.
32	2.35	5	Pressure Gauge	Wet well needs cleaning, pressure gauge needs replacement.
20	2.33	4	Service conduit	Seal offs are beginning to wear, repair/replace service conduit.
30	2.3	5	Pressure Gauge	Vent is corroded. Pressure gauge needs replacement.
10	2.26	5	Pressure Gauge	Pressure gauge needs replacement.
39	2.23	3	Structure, Control Floats, Wet Well Influent Pipe, Valve Vault, Surge Suppressor, Service conduit, Duplex Receptacle, SCADA Panel (RTU)	Wet well needs cleaning.
7	1.94	5	Pressure Gauge	Pressure gauge needs replacement, wet well needs cleaning.
29	1.9	2	Structure, Lining/Coating, Level Sensor, Vent, Control Floats, Access Hatch, Wet Well Discharge Risers, Wet Well Influent Pipe, Guide Rails Pump, Valve Vault, Check Valves, Plug Valves, Pressure Gauge, Equipment Mounting Rack, Surge Suppressor, Service conduit, Service Disconnect (Main Switch), Control Panel, Alarm light	-
28	1.53	3	Control Floats, Wet Well Influent Pipe	Schedule maintenance on control floats, wet well, and influent pipe.
17[1]	-	-	-	-

Notes:
[1]LS-17 was under construction during the Condition Assessment, and was consequently not inspected. It is assumed that the lift station post rehabilitation is in good condition.

Legend

- Marshall Street WRF Basin
- Other WRF Basin Areas
- WRF Location
- Other Gravity Main

Lift Station Condition

- 4
- 3
- 2
- Private Lift Station
- Other City Lift Stations

Air Release Valves Condition

- 3
- 2
- 1
- NA
- Other Air Release Valves

Force Main Condition

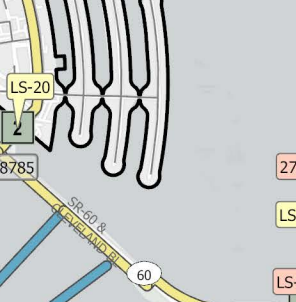
- 4
- 3
- 2
- 1
- Other WRF Force Main

Marshall Street WRF

1605 Walnut

Force Main Condition

Unserviceable	5	0	0%
Renewal Req.	4	3,702	3%
Main. Req.	3	78,643	74%
Minor Defects	2	6,736	6%
Very Good	1	17,572	16%
Sub Total		106,653	100%



Lift Station Condition

Unserviceable	5	0	0%
Renewal Req.	4	2	5%
Main. Req.	3	29	67%
Minor Defects	2	12	28%
Very Good	1	0	0%
Sub Total		43	100%



Source: City of Clearwater Utilities Data

TETRA TECH

0 3,000 Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

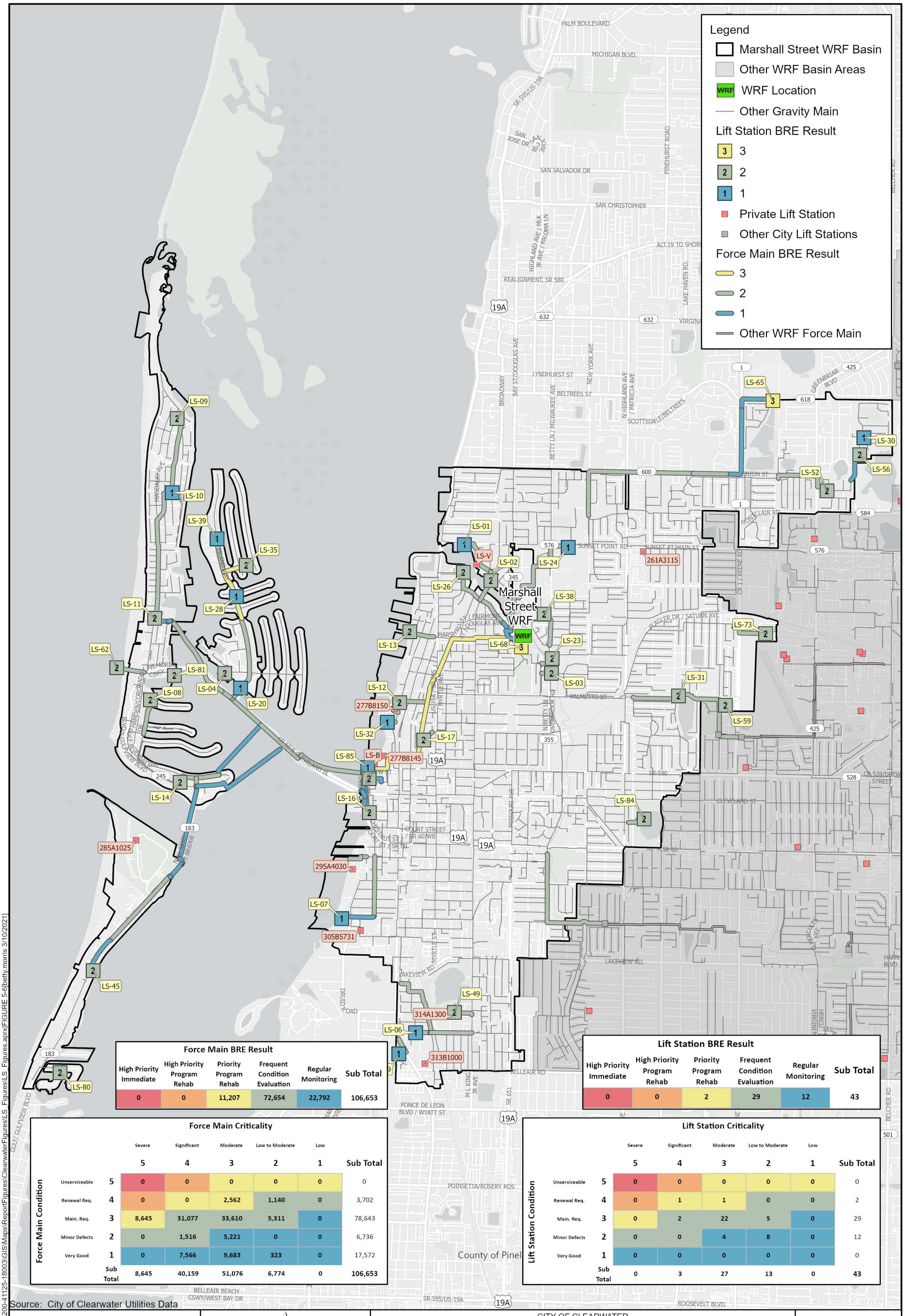
MARSHALL STREET WRF BASIN
LIFT STATION AND FORCE MAIN CONDITION

FIGURE 5-5

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\LS_Figures\LS_Figures.aprx|FIGURE 5-5|betty.morris 3/10/2021]

5.3.3 Business Risk Evaluation

Figure 5-6 provides the BRE results for the lift stations based on the composite condition scores. LS-65 and LS-68 are identified as priority-program rehab lift stations requiring rehabilitation. Most of the remaining lift stations are identified as requiring frequent condition evaluation. Despite the relatively low priority results in the BRE several lift stations have components that scored as unserviceable or requiring rehabilitation and should also be prioritized.



Force Main BRE Result

High Priority Immediate	High Priority Program Rehab	Priority Program Rehab	Frequent Condition Evaluation	Regular Monitoring	Sub Total
0	0	11,207	72,654	22,792	106,653

Lift Station BRE Result

High Priority Immediate	High Priority Program Rehab	Priority Program Rehab	Frequent Condition Evaluation	Regular Monitoring	Sub Total
0	0	2	29	12	43

Force Main Criticality

Force Main Condition		Severe 5	Significant 4	Moderate 3	Low to Moderate 2	Low 1	Sub Total
Unserviceable	5	0	0	0	0	0	0
Renewal Req.	4	0	0	2,562	1,140	0	3,702
Main. Req.	3	8,645	31,077	33,610	5,311	0	78,643
Minor Defects	2	0	1,516	5,221	0	0	6,736
Very Good	1	0	7,566	9,683	323	0	17,572
Sub Total		8,645	40,159	51,076	6,774	0	106,653

Lift Station Criticality

Lift Station Condition		Severe 5	Significant 4	Moderate 3	Low to Moderate 2	Low 1	Sub Total
Unserviceable	5	0	0	0	0	0	0
Renewal Req.	4	0	1	1	0	0	2
Main. Req.	3	0	2	22	5	0	29
Minor Defects	2	0	0	4	8	0	12
Very Good	1	0	0	0	0	0	0
Sub Total		0	3	27	13	0	43

Source: City of Clearwater Utilities Data

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\LS_Figures\LS_Figures.aprx|FIGURE 5-6|betty.morris 3/10/2021

TETRA TECH

0 3,000 Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

MARSHALL STREET WRF BASIN
FORCE MAIN AND LIFT STATION BRE RESULTS

FIGURE 5-6

5.4 FORCE MAINS

5.4.1 Inventory

There is approximately 106,000 feet of force main in the Marshall Street WRF basin ranging in size from 2 to 30-inch with about 4.5% of the total pipe of unknown diameter. Materials are primarily PVC, followed by cast iron and polyethylene, however, 39% of the total length has no identified material. **Tables 5-5 and 5-6** present the breakdown of sizes and materials for the Marshall Street WRF Basin. **Appendix I** presents a description of the force main segments.

The largest manifolded force main system in the basin is the 16, 20 and 24-inch line that ties the beach and most of the downtown area to the Marshall Street WRF. Most of the other force mains in the basin discharge to a gravity system that drains directly to the Marshall Street WRF.

The north subaqueous crossing from Bayway Boulevard to Memorial Causeway has recently been replaced.

Table 5-5. Marshall Street WRF Basin Force Main Diameter Summary

Diameter (in)	Length (ft)	Percentage
2-inch	9	0.01%
3-inch	1,819	1.71%
4-inch	6,099	5.72%
6-inch	22,266	20.88%
8-inch	13,070	12.26%
10-inch	1,805	1.69%
12-inch	24,036	22.54%
15-inch	2,153	2.02%
16-inch	13,245	12.52%
20-inch	8,701	8.16%
24-inch	8,645	8.11%
30-inch	168	0.16%
Unknown	4,637	4.35%
Total	**106,653**	**100%**

Table 5-6. Marshall Street WRF Basin Force Main Material Summary

Material	Length (ft)	Percentage
Polyvinyl Chloride	23,243	21.79%
Ductile Iron Pipe	8,516	7.98%
Cast Iron Pipe	15,686	14.71%
Polyethylene	18,107	16.98%
Unknown	41,101	38.54%
Total	**106,653**	**100.00%**

5.4.2 Condition Assessment

The condition scores for the Marshall Street WRF basin force mains based on age and material are shown in **Figure 5-5**. Approximately 3% of the total length located at the beach and discharging to LS-20 has a score of 4 and requires rehabiliation. The remaining force mains have a condition score of 3 or less.

5.4.3 Business Risk Evaluation

Figure 5-6 presents the BRE results for the force mains. The 24-inch force main running along the Blanche B Little John Trail and Marshall Street to the Marshall Street WRF has a criticality score of 5 and a priority-program rehab result in the BRE. The remaining force mains in the basin mostly require enhanced monitoring.

5.4.4 Air Release Valves

A total of 18 ARVs were identified through either GIS or other operating records. Of the total, 11 were located and identified during the field inspections. The remaining 7 were not located based on GIS coordinates, although it is possible the vaults were buried and inaccessible. **Table 5-7** presents a summary of the findings and ARV condition from the inspections. Testing could not be completed for many of the ARVs due to either access issues or stuck isolation valves. None of the inspected ARVs were leaking.

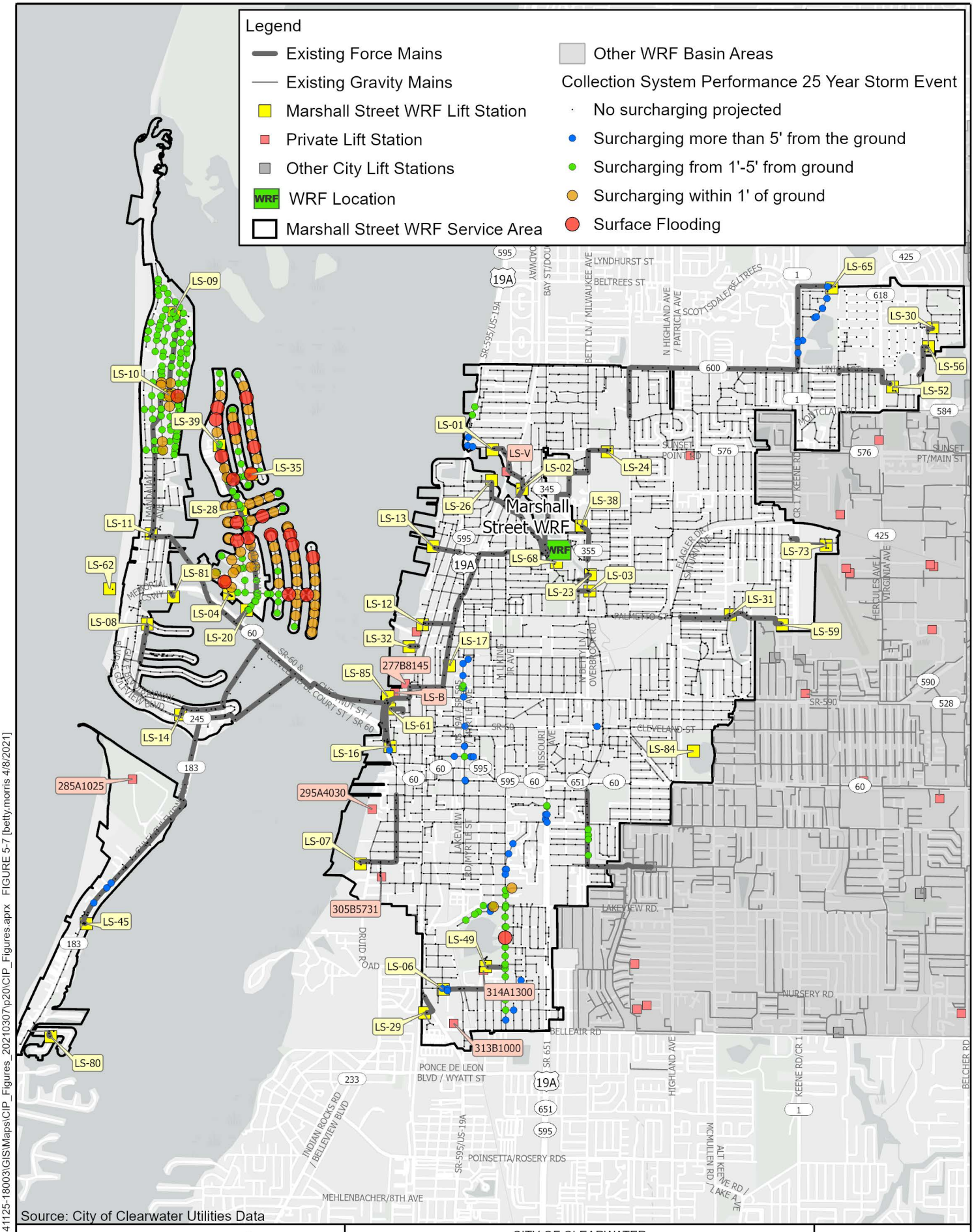
Table 5-7. Marshall WRF ARV Condition

ARV ID	In GIS	Vault/ Above Ground	Test Performed	Composite Score	Most Severe Score	Comments
1569 S. Ft. Harrison	No	Above Ground	No	5	5	Plug would not open. Body in good condition No vent or screen
252B5601	Yes	Vault	No	3.0	3	Small ARV in meter box. Only one valve Partially buried
260A5010	Yes	Vault	No	3.0	3	Valves could not be turned.
286B9025	Yes	Vault	No	3.0	5	Lock on ARV, could not perform test. Small ARV, structure/enclosure is broken. Barricades mark spot.
286B9020	Yes	Vault	No	3.0	5	Isolation valve not visible, possibly buried under gravel floor. Could not test. No vent.
294A4055	Yes	Vault	Yes	3.0	3	Space is too small to turn valves. Valve did expel air and appears to be working properly.
LS 16	No	Vault	No	2.5	3	Like new ARV but isolation valve is old and won't turn. Couldn't perform test.
252B7601	Yes	Vault	No	2.0	3	Could not perform test, Access issues
260B5072	Yes	Vault	No	1.5	3	Isolation valve is buried, could not conduct test. Valve looks to be in good shape and working properly.
269A3400	Yes	Above Ground	Yes	1.0	1	Lock exists on side valve, see photo 3. Like new above ground ARV.
1605 Walnut	No	Vault	Yes	1.0	1	Plug would not turn.
286B5060	Yes	N/A	N/A	N/A	N/A	ARV not found.
242A1601	Yes	N/A	N/A	N/A	N/A	ARV not found.
276B8785	Yes	N/A	N/A	N/A	N/A	ARV not found.
260A5005	Yes	N/A	N/A	N/A	N/A	ARV not found.
267A1105	Yes	N/A	N/A	N/A	N/A	ARV not found.
297A4145	Yes	N/A	N/A	N/A	N/A	ARV not found.
286B9021	Yes	N/A	N/A	N/A	N/A	ARV not found.

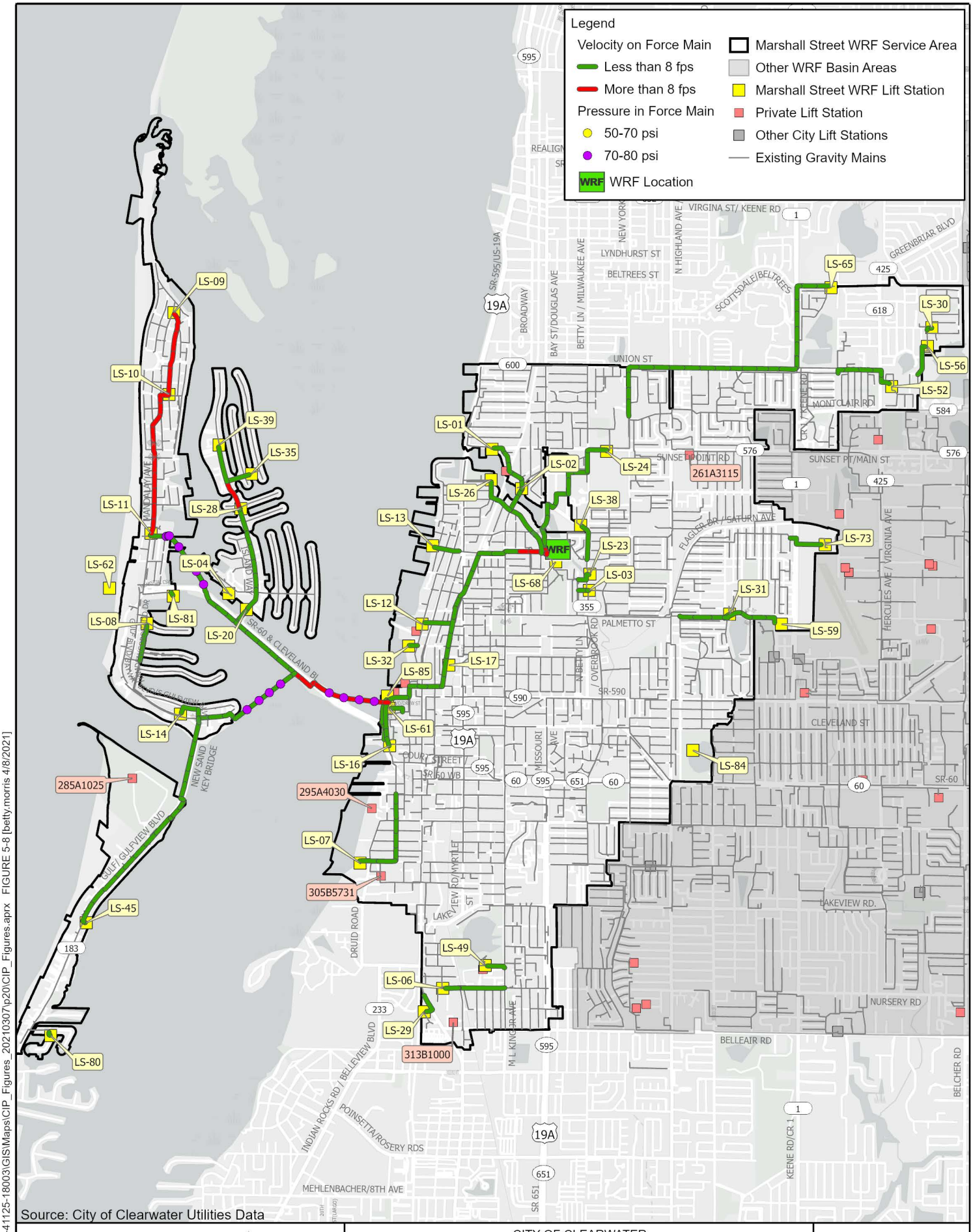
5.5 HYDRAULIC MODEL RESULTS

A capacity analysis was performed using the calibrated model to identify capital improvement needs for gravity main, force main and lift stations within each WRF basin to meet the selected LOS. **Figure 5-7** presents results of projected surcharging and flooding locations during the 25-year, 24-hour design storm at the Marshall Street WRF Basin. **Figure 5-8** shows all force main locations where pressures are projected to be higher than 50 pounds per square inch (psi) and any force main stretch where velocities are projected to be higher than 8 feet per second (fps). Refer to Section 4.2.3 for discussion of specific capacity issues within the Marshall Street WRF Basin.

Within the Marshall Street WRF Basin, thirty-six (36) of the forty-two (42) public lift stations were included in the model. The seven (7) lift stations not included in the model are small stations (i.e. sump pumps, single customer, or served a city park) of little impact on the overall model; however, the flows from these lift stations areas are accounted for in the model. **Table 5-8** provides summary results for each lift station in the Marshall Street WRF. The table provides the model predicted 25-year, 24-hour design storm event peak flow rate during the projected 2050 Growth Conditions, including information on how the lift station was modeled. Those lift stations modeled with a pump curve have capacities that vary with flow and hydraulic gradeline at the force main discharge point. Those lift stations (or pumps) where pump curves were not available were modeled with a constant pumping capacity based on draw-down testing for each pump. The use of a pump curve provides a higher level of certainty on the predicted pump performance. The use of a constant pump capacity could over or under-predict a pumps actual performance for the design storm.



P:\IER\41125\200-41125-18003\GIS\Maps\CIP_Figures_20210307\p20\CIP_Figures.aprx FIGURE 5-7 [betty.morris 4/8/2021]



TETRA TECH

N

0 4,000

Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

Marshall Street WRF Velocities and Pressures in Force Mains During 25-Year, 24-Hour Design Storm

FIGURE 5-8

P:\IER\41125\200-41125-18003\GIS\Maps\CIP_Figures_20210307\p20\CIP_Figures.aprx FIGURE 5-8 [betty.morris 4/8/2021]

Table 5-8. Marshall Street WRF LS Model Results During 25-Year, 24-Hour

LS	Modeling Method	Peak Flow, gpm[1]	Comments
1	Pump Curve and Constant Flow Rate	490	Sufficient capacity, no flooding predicted. Only one pump curve available, recommend obtaining pump curve(s).
2	Pump Curves	130	Sufficient capacity, no flooding predicted
3	Pump Curve and Constant Flow Rate	60	Sufficient capacity, no flooding predicted. Only one pump curve available, recommend obtaining pump curve(s).
4	Not Modeled	-	Small lift station, not included in the model.
6	Pump Curve and Constant Flow Rate	640	Sufficient capacity and surcharging within 2- to 5-feet of ground predicted. Recommend obtaining pump curve(s).
7	Pump Curves	1,740	Sufficient capacity, no flooding predicted
8	Pump Curves	310	Sufficient capacity, no flooding predicted
9	Pump Curves	810	Insufficient capacity, flooding predicted
10	Pump Curves	850	Insufficient capacity, flooding predicted
11	Pump Curves	3,130	Sufficient capacity, no flooding predicted
12	Pump Curve and Constant Flow Rate	320	Sufficient capacity, no flooding predicted. Only one pump curve available, recommend obtaining pump curve(s).
13	Pump Curve and Constant Flow Rate	80	Sufficient capacity, no flooding predicted. Only one pump curve available, recommend obtaining pump curve(s).
14	Pump Curves	1,300	Sufficient capacity, no flooding predicted
16	Pump Curves	2,540	Sufficient capacity, no flooding predicted. Some surcharging predicted upstream of lift station.
17	Not Modeled	-	Small lift station, not included in the model.
18	Not Modeled	-	Small lift station, not included in the model.
20	Pump Curves	2,850	Insufficient capacity, flooding predicted.[2]
23	Pump Curves	370	Sufficient capacity, no flooding predicted
24	Pump Curves	1,850	Sufficient capacity, no flooding predicted
26	Pump Curves	260	Sufficient capacity, no flooding predicted.
28	Pump Curves	560	Insufficient capacity, flooding predicted.[2]
29	Pump Curves	40	Sufficient capacity, no flooding predicted.
30	Pump Curves	80	Sufficient capacity, no flooding predicted.
31	Pump Curves	50	Sufficient capacity, no flooding predicted.
32	Pump Curves	10	Sufficient capacity, no flooding predicted.
35	Pump Curve and Constant Flow Rate	490	Insufficient capacity and flooding predicted. Recommend obtaining pump curve(s).[2]
38	Constant Flow Rate	10	Sufficient capacity, no flooding predicted. No pump curves available, recommend obtaining pump curves.
39	Pump Curves	580	Insufficient capacity, flooding predicted.[2]
45	Pump Curves	1,810	Sufficient capacity, no flooding predicted.
49	Pump Curves	100	Sufficient capacity, no flooding predicted.

Table 5-8. Marshall Street WRF LS Model Results During 25-Year, 24-Hour (Continued)

LS	Modeling Method	Peak Flow, gpm[1]	Comments
52	Pump Curves	200	Sufficient capacity, no flooding predicted.
56	Pump Curves	140	Sufficient capacity, no flooding predicted.
59	Constant Flow Rate	10	Sufficient capacity, no flooding predicted. No pump curves available, recommend obtaining pump curves.
61	Constant Flow Rate	40	Sufficient capacity, no flooding predicted. No pump curves available, recommend obtaining pump curves.
62	Not Modeled	-	Small lift station, not included in the model.
65	Constant Flow Rate	630	Sufficient capacity, no flooding predicted. No pump curves available, recommend obtaining pump curves.
68	Not Modeled	-	Small lift station, not included in the model.
73	Pump Curves	10	Sufficient capacity, no flooding predicted
76	Not modeled	-	Small lift station, not included in the model.
80	Pump Curves	100	Sufficient capacity, no flooding predicted
81	Pump Curves	80	Sufficient capacity, no flooding predicted
85	Constant Flow Rate	10	Sufficient capacity, no flooding predicted. No pump curves available, recommend obtaining pump curves.

Notes:

1. Peak flow into the lift station for the 25-year, 24-hour design storm event under 2050 growth conditions.
2. The flow monitoring data available at these locations were considered unreliable, see Section 3 for additional details. Further flow metering is recommended at this location (Section 5.6.3) prior to implementing improvements at this location.
3. Lift stations shaded in red represent capacity issues.

5.6 RECOMMENDATIONS

Recommendations for the Marshall Street Basin include:

1. Capacity related capital projects determined by the hydraulic model required to meet projected growth and the designated LOS.
2. R&R program determined by the BRE analysis.
3. Other recommendations.

5.6.1 Capacity Related Capital Improvement Projects

Three capital improvement projects were identified at the Marshall Street WRF Basin.

5.6.1.1 MAR-01 - Martin Luther King Jr. Avenue Flooding

There are two alternatives for MAR-01 improvements:

Alternative A: MLK Ave Main Replacement

A stretch of approximately 7,000 feet of existing 10- to 15-inch gravity main from Missouri Avenue & Turner Street to Martin Luther King Avenue Jr. Avenue & Howard Street lacks conveyance capacity for the projected design storm peak flow and is predicted to cause an SSO at Martin Luther King Jr. Avenue.

Along this stretch of gravity main, 1,828-feet (21-percent) of pipes had a priority-program rehab BRE result. There are no high priority-program rehab BRE assets.

Figure 5-9 presents the recommended improvements. From downstream to upstream, the following main replacements are needed:

- From MH 296B5055 to MH 296A3140 - Replace approximately 2,100-feet of existing 15- and 18- inch mains with proposed 24-inch main from South Betty Lane and Rogers Street to South Missouri Avenue and Druid Road.
- From MH 296A3140 to MH 306A4005 - Replace approximately 3,900-feet of existing 15-inch main with proposed 18-inch main from South Missouri Avenue and Druid Road to Martin Luther King Junior Avenue and Lakeview Road.
- From MH 306A4005 to MH 314A3170 - Replace approximately 2,600-feet of existing 10- and 12-inch main with proposed 15-inch main along Martin Luther King Junior Avenue from Lakeview Road to Woodlawn Road.

Alternative B: LS-06 Flow Rerouting

LS-06 has two force main routing options. Per the City, the current active route is through an 8-inch force main that runs along Woodlawn Street and discharges at MH 314A3170, just upstream of the capacity issues occurring along the Martin Luther King Junior Avenue main. Its secondary route, which is currently not being utilized, is through an existing 6-inch force main that flows east on Woodlawn Street and turns north on Myrtle Avenue, following the railroad tracks until E Street, where it flows northwest until discharging at D Street at MH 305B8065. If the flows discharge through the second route, they would go to LS-07, which discharges into the LS-16 basin, and then would be conveyed through force main to the Marshall Street WRF.

If the flows from LS-06 are re-routed through its secondary route to LS-07, then the main improvements at MLK would not be necessary. Instead, other improvements would be needed at LS-06's force main, LS-07's gravity main, a short section of gravity main upstream of LS-16, LS-16 itself and LS-16's force main due to insufficient capacity in assets given the newly introduced peak flows from LS-06 that would lead to predicted SSOs. This alternative would require upsizing the capacity of at least 1 lift station, replacing 4,400-feet of force main and 4,100-feet of gravity main.

LS-06 and LS-16 had condition scores of 2.40 and 2.76, respectively. The entire length of the existing force main proposed to be replaced has a BRE priority-program rehab result. Along the existing gravity main proposed to be replaced, approximately, 3,262-feet (55-percent) of pipes had a priority-program rehab BRE result. There are no high priority-program rehab BRE assets.

Figure 5-9 presents the recommended improvements. From downstream to upstream, the following gravity main replacements are needed:

- LS-16's Force Main – Replace approximately 1,500-feet of force main from an existing 12-inch to an estimated 16-inch diameter pipe. Addressed as a current project and added to the CIP as MAR 04

- At LS-16 - Replace pumps and wet well size to increase the firm capacity of the lift station to convey a total flow of 3,100 gpm (4.5 MGD). Addressed as a current project and added to CIP as MAR 04.

- Upstream of LS-16 from LS-16 to MH 286B6067 – Replace approximately 600-feet of existing 12 to 24-inch main with proposed 30-inch main along west of the Memorial Causeway Bridge towards Court Street.
- Upstream of LS-07 from LS-07 to MH 305B5155 – Replace approximately 1,900-feet of existing 12- and 15-inch main with proposed 18-inch main along Jeffords Street, Druid Road, and Pinellas Street.
- Upstream of LS-07 from MH 305B5155 to MH 305B7050 – Replace approximately 1,000-feet of existing 12-inch with proposed 15-inch main along Pinellas Street from Bay Avenue to Ft Harrison Avenue.
- Upstream of LS-07 from MH 305B7050 to MH 305B8065 – Replace approximately 1,800-feet of existing 8-inch with proposed 12-inch main parallel and east of Ft Harrison Avenue from Pinellas Street to D Street.
- LS-06's Force Main - Replace approximately 2,900-feet of force main from an existing 6-inch to an estimated 8-inch diameter pipe, depending on pump station improvements (i.e. impeller size, force main material, pump curve selection). This force main stretch is from LS-06 to D Street, where it discharges to LS-07 basin.
- At LS-06 – No recommendations can be given at LS-06 since pump curve was received for one of the two pumps. The second pump is modeled using a constant flow rate based on the draw down test data. Recommend obtaining second pump curve and updating the model before capital improvements are implemented.
- Upstream of LS-06 from LS-06 to MH 313B7110 - Replace approximately 600-feet of existing 8-inch with proposed 12-inch main along Woodlawn Street from LS-06 to Myrtle Avenue.

MAR-01-Alternative Analysis

The alternative selection for MAR-01 is based on the opinion of probable costs. For a description of the development of the opinion of probable cost refer to section 8.3.1. The estimated opinion of probable cost for MAR-01 A is $6,367,000 and the opinion of probable cost for MAR-01 B is $5,881,000. MAR-01 B is selected as the alternative to coincide with planned improvements to LS 16 due to new development shown as project MAR 04.

5.6.1.2 MAR-02 – LS-09 & LS-10 Improvements

LS-09 and LS-10 are located at the northernmost part of Clearwater Beach. These lift stations have insufficient flow capacity to convey peak flows for the 25-year, 24-hour design storm event. In addition, the receiving gravity mains upstream of both lift stations do not have enough conveyance capacity. For LS-10, that would be the gravity main from LS-10 moving south on Lantana Street towards Verbena Street, then moving west along Verbena Street up to Bruce Avenue, and finally ending at the intersection of Bruce Avenue and Mango Street. For LS-09, the gravity main lacking conveyance capacity runs from LS-09 along Bruce Avenue up to the intersection at Narcissus Avenue.

Both pump stations would also need to be upsized to prevent flooding during the design storm condition and the downstream gravity main will need to be upsized to prevent surcharging in downstream manholes. The increase in conveyance capacity at the lift stations will require replacements along the existing force main for both systems due to predicted velocities exceeding 8 fps.

LS-10 and LS-09 had condition scores of 2.26 and 2.50, respectively, both in need of a new pressure gauge. The entire length of the existing force main proposed to be replaced, has a priority-program rehab BRE result based on age and material. Along the existing gravity main proposed to be replaced, there are no priority-program rehab or high priority-program rehab BRE rated assets. Although the lift stations and force main improvements would be

enough to prevent flooding at this location during the design, it is recommended to address the gravity main issues while the other issues are being addressed.

Figure 5-9 presents the recommended improvements. From downstream to upstream, the following gravity main replacements are needed:

- Force main from LS-11 to LS-10 – Replace approximately 4,850-feet of force main from existing 8-inch to an estimated 10-inch diameter pipe, depending on pump station improvements (i.e. impeller size, force main material, pump curve selection).
- At LS-10 – Replace/improve a combination of pumps and wet well size to increase the firm capacity of the lift station to convey a total flow of 850 gpm (1.2 MGD).
- From LS-10 to MH 249A3100 – Replace approximately 360-feet of existing 8-inch and 10-inch main with proposed 12-inch main.
- From MH 249A3100 to MH 249A4025 – Replace approximately 400-feet of existing 8-inch main with proposed 10-inch main.
- Force main from LS-10 to LS-09 – Replace approximately 2,700-feet of force main from existing 6-inch to an estimated 8-inch diameter pipe, (i.e. impeller size, force main material, pump curve selection).
- At LS-09 – Replace/improve a combination of pumps and wet well to increase the firm capacity of the lift station to convey a peak flow of 810 gpm (1.2 MGD).
- From LS-09 to MH 238A3070 – Replace approximately 100-feet of existing 8-inch main with proposed 12-inch main.

Overall, an estimated 7,600 feet of force main pipe, 1,400-feet of gravity main, and two (2) lift stations are estimated to need replacement for this project.

5.6.1.3 MAR-03 – Gravity Main Replacement Upstream of LS-01 Due to Projected Growth (2030 Conditions)

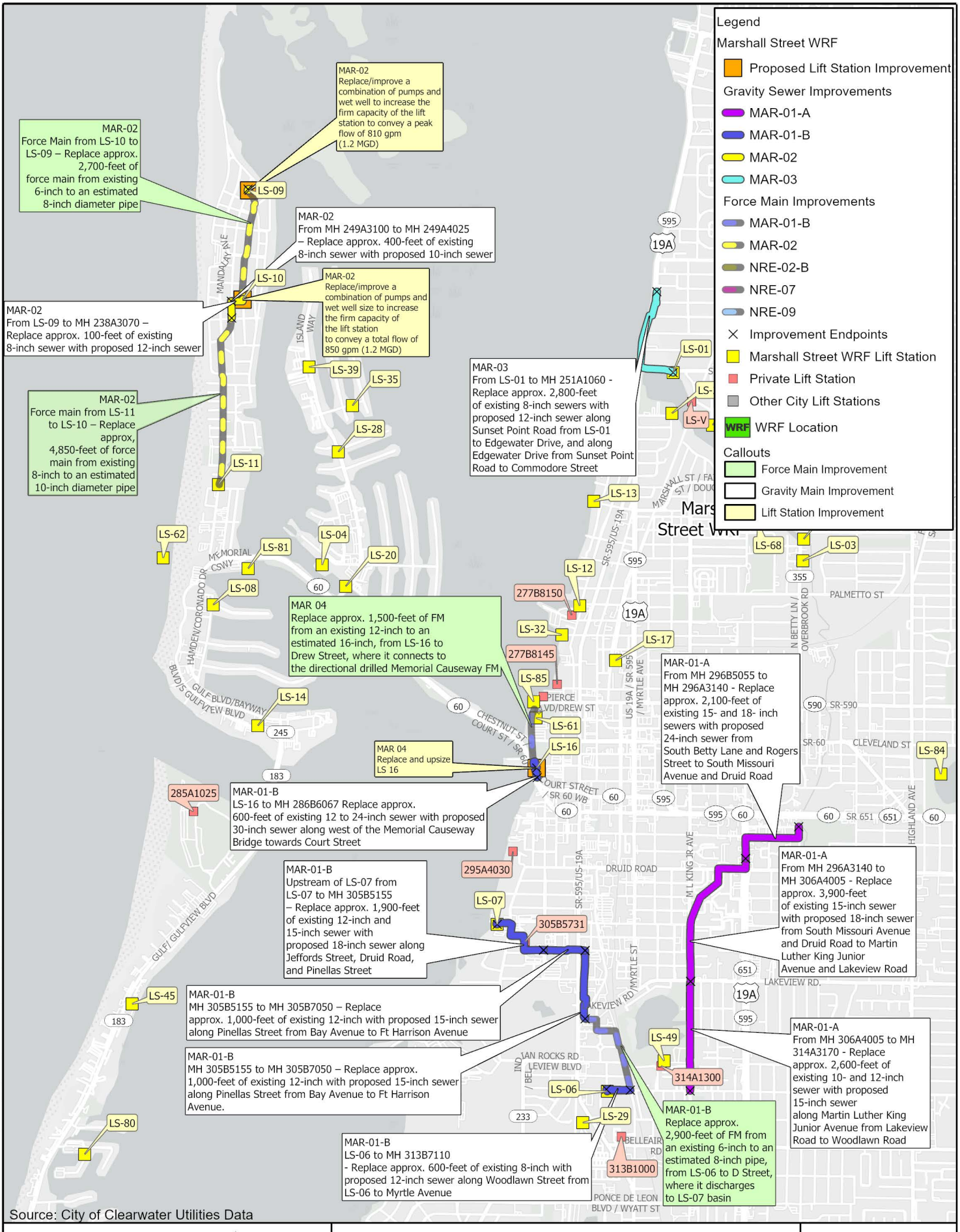
Approximately 2,800 feet of existing 8-inch gravity main along Sunset Point Road and Edgewater Drive are projected to be undersized during the 25-year, 24-hour design storm with 2030 Projected Growth. The gravity main capacity limitation is projected to cause surcharging within 1-foot of the ground at Edgewater Drive and Granada Street. Even though no flooding occurs, a capital improvement plan was developed given that the surcharging close to ground surface occurs at a location by the shore and because there are known and active proposed developments in this area. Along this stretch of gravity main, 1,005-feet (36-percent) of pipes had a priority-program rehab BRE result. There are no high priority-program rehab BRE assets.

Figure 5-9 shows the recommended improvements. From downstream to upstream, the following gravity main replacements are needed:

- From LS-01 to MH 251A1060 - Replace approximately 2,800-feet of existing 8-inch mains with proposed 12-inch main along Sunset Point Road from LS-01 to Edgewater Drive, and along Edgewater Drive from Sunset Point Road to Commodore Street.

5.6.1.4 MAR-04 – New Lift Station 16 and Force Main

Lift station 16 is planned for replacement and its discharge force main is planned for expansion to accommodate new development in the basin area. The expansion will include the rerouted flow from LS 06 presented in MAR 01. Details are provided in the *Basis of Design Report for LS-16 Pump Station* (Stantec, February 19, 2021)



TETRA TECH

0 3,000 Feet

CITY OF CLEARWATER
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MARHALL STREET WRF IMPROVEMENTS

FIGURE 5-9

P:\IER\41125\200-41125-18003\GIS\Maps\CIP_Figures_20210307\p20\CIP_Figures.aprx FIGURE 5-9 [betty.morris 4/8/2021]

5.6.1.5 Summary

Table 5-9, below, includes an overview of the capacity related capital improvement projects identified within the Marshall Street WRF Basin, and their respective planning periods. The scheduling of the project by planning period was determined by the following criteria:

- Projects with modeled SSOs at the design storm under current conditions are scheduled for implementation within ten years, by 2030, with priority placed on projects that reduce SSOs for storm events less than the design storm.
- Projects that exceed LOS due to growth are scheduled for implementation in the planning period where the growth occurs.
- Projects that occur along routes of known pavement resurfacing are recommended for implementation prior or concurrent with the resurfacing. Specific information regarding the timeframe is provided in the notes for **Table 5-9** for affected projects.
- Projects that rely upon the completion of other projects are discussed in the notes of **Table 5-9**.

Table 5-9. Marshall Street WRF Basin Capital Improvement Projects

Project	Planning Period	Notes
MAR-01	To 2030 (6 to 10 Years)	Insufficient capacity under existing conditions during the 25-year, 24-hour design storm event.
MAR-02	To 2030 (6 to 10 Years)	Insufficient capacity under existing conditions during the 25-year, 24-hour design storm event. City staff confirms long run times in LS 9 and 10. The City's road resurfacing program is scheduled to occur in 2021 along Mandalay Dr., Jessamine Cir., and Bruce Ave.
MAR-03	To 2030	Insufficient capacity under projected growth by the year 2030.
MAR-04	Within 5 Years	Construction to correspond with development projects

5.6.2 Renewal and Replacement

The R&R recommendation consists of a risk prioritized program that can be implemented year-to year to systematically improve the system. The BRE results provide an indication of priority whereas actual project definition and scheduling of the projects is dependent upon budgetary constraints, best practices, and institutional capacity. The pipe lengths and manhole counts are summarized in the following subsections. Specific asset identification and location is provided in the GIS shapefiles provided as a supplement to this report as described in **Appendix L**.

5.6.2.1 Gravity Mains

Table 5-10 presents a prioritized summary of R&R actions by length of pipe based upon the decision tree presented in Section 2.6.6.1 for the Marshall Street Basin gravity mains. Approximately 400,000 feet is recommended for CCTV inspection to determine its condition based on PACP data. Short term CCTV priority is given to those pipe segments with an indicated condition score (based on age and material) of 4 or 5. Pipe segments with indicated condition scores of 3 or less are considered for longer term CCTV work.

Of the total basin gravity pipe length of 832,000 feet, approximately 94,000 is recommended for R&R. It's important to note that as CCTV is completed, and actual conditions determined for the pipe segments the R&R program should be reprioritized.

Table 5-10. Gravity Mains R&R – Pipe Length

BRE Result	Highest Priority (Immediate)	High Priority-Program Rehab	Priority-Program Rehab	Priority CCTV Inspection	Frequent Condition Evaluation	Regular Monitoring	Total
CCTV Short Term	---	---	---	205,090	---	---	205,090
CCTV Long Term	---	---	---	193,838	---	---	193,838
Replace	---	---	60,774	---	0	0	60,774
Point Repair	---	---	20,883	---	0	0	20.883
Point Repair and Lining	---	---	8,904	---	0	0	8,904
Lining	---	313	3,061	---	0	0	3,374
O&M	---	---	---	---	133,840	204,990	338,830
Total	**---**	**313**	**93,623**	**398,928**	**133,840**	**204,990**	**831,694**

5.6.2.2 Manholes

Lacking condition data, a BRE result for manholes is extrapolated from the gravity mains BRE result as described in Section 2.6.6.2. As the City implements a manhole inspection program, the prioritization and budgeting of the R&R program should be reevaluated. Based on these assumptions, the manhole R&R program is presented in **Table 5-11**. High priority and priority manhole IDs are identified in **Appendix K**.

Table 5-11. Manhole R&R - Each

Implied BRE Result	Highest Priority (Immediate)	High Priority-Program Rehab	Priority-Program Rehab	Frequent Condition Evaluation	Regular Monitoring	Total
Manhole Replacement	1	5	256	0	0	262
Coating (Min. Deterioration)	-	5	256	0	0	261
Coating (Sign. Deterioration)	-	5	256	0	0	261
Misc. Repair	-	5	256	0	0	261
O&M	-	3	256	1,383	809	2,451
Total	**1**	**23**	**1,280**	**1,383**	**809**	**3,496**

5.6.2.3 Lift Stations

Prioritization for lift station R&R is based on BRE result and composite condition score as described in Section 2.6.6.3. **Table 5-12** presents the priority list for lift stations composite scores greater than 3.0.

Table 5-12. Lift Station R&R – Opinion of Probable Costs

Lift Station	Approximate Address	BRE Result	Composite Condition Score
68	1190 Russell St.	Priority-program rehab	3.82
65[1]	1881 Virginia St.	Priority-program rehab	3.77
59	901 N. Saturn Ave	Frequent Condition Evaluation	3.57
61	---	Frequent Condition Evaluation	3.5
3	1119 N. Betty Ln.	Frequent Condition Evaluation	3.43
31	1616 Palmetto St. (@ Richards Ave.)	Frequent Condition Evaluation	3.39
38	1719 Overbrook (@ Jade St.)	Frequent Condition Evaluation	3.25
18	1650 N. Arcturas Ave.	Frequent Condition Evaluation	3.15
13	W. end of Marshall St. @ Clearwater Bay	Frequent Condition Evaluation	3.14
56	2150 Beverly Ln. (Marla Groves)	Frequent Condition Evaluation	3.08

Notes:
1. Rehabilitation underway

5.6.2.4 Force Mains

Prioritization of force main R&R is based on BRE result and condition score as described in Section 2.6.6.4. BRE scoring relies on pipe material and age, not actual force main condition. The force main R&R projects identified in **Table 5-13** show 8,900 feet of 24-inch line with a Priority-program rehab BRE result and a condition score of 3; therefore, this R&R project should be completed within the next 10 years. Additionally, 6,300 feet of 6-inch line is identified with a Frequent Condition Evaluation BRE result and a condition score of 4, indicating repair or replacement is needed. Therefore, this project was placed in the 2031 to 2050 planning period. The 24-inch force main connecting the beaches to the Marshall Street WRF received a Priority-program rehab BRE result due to its size and importance in conveying wastewater to the Marshall Street WRF.

Table 5-13. Force Main R&R

Force Main Description	BRE Result	Condition Score	Length (ft)	Planning Period
24” FM along Blanche B Little John Trail and Marshall Street	Priority-Program Rehab	3	8,900	To 2030
6” FM discharge from LS 35, 39 and 28	Frequent Condition Evaluation	4	6,300	2031 to 2050

5.6.3 Future Flow Monitoring & Model Recalibration

The meter upstream of LS-20 had the largest peaking factor and percent capture of all twenty (20) flow metering locations. However, only one month of usable data was available at this site. During the 25-year, 24-hour design storm event, LS-20 and all its upstream lift stations (LS-28, LS-39, and LS-35) are projected to be undersized, causing predicted SSOs at 21 manholes. The City has not observed any historical SSOs at these islands. Due to the limited flow metering data available and the lack of consistency between the model results and City's observations, future flow monitoring and recalibration of the model is recommended at this location before any recommendations are given on capital improvement projects.

The City's ongoing flow monitoring program collects valuable data that can be used to further improve the model. The following recommendations have been identified for the City to consider for its ongoing flow monitoring efforts in the Marshall Street WRF:

- ***LS-20*** – Continue flow monitoring at this location. Recommend moving meter at least 2 manholes upstream of lift station. Moving the location of meter upstream could generate better hydraulic conditions to improve the accuracy of data collection.
- ***LS-35, LS-28, LS-39*** – To fully understand dry and wet weather flow behavior in the islands upstream of LS-20, flow meters are recommended upstream of each lift station, to identify any I/I issue(s) and exact location(s) of potential problem(s).
- ***LS-45*** – LS-45 metering area showed a very high level of dry weather flow (gpcd), likely due to sea water intrusion in the beach side gravity main system. Maintain a meter in this general area. Consider alternate locations or increased meter maintenance to improve the quality of data collected.
- ***M1A, M3A, M3C*** - Maintain meter at sites M1A, M3A and M3C in current locations or in alternate location to meter the same general area. These locations were crucial for model calibration due to size of tributary areas and locations within the system.
- ***LS-16*** – Maintain a meter in this general area. The data was very "noisy" at this location. Recommend moving meter at least 2 manholes upstream of the lift station. Moving the location of meter upstream could result better hydraulic conditions to improve the accuracy of data collection.

6.0 EAST WRF

6.1 INTRODUCTION

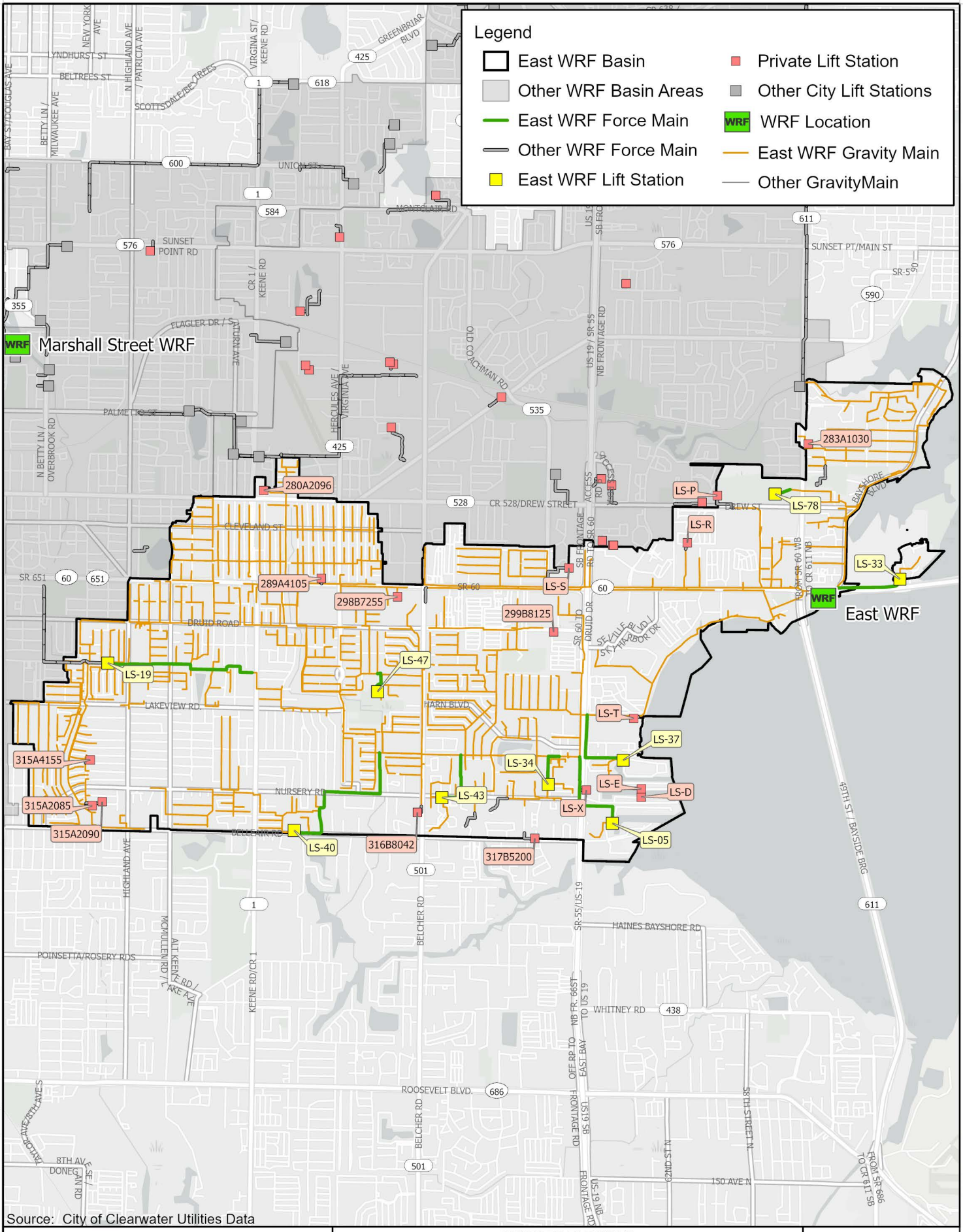
The East WRF basin is the smallest of the three basins and provides service to the southeast portion of the City's service area. The area is generally bounded by Tampa Bay to the east, Largo's service area to the south, the Marshall Street WRF basin to the west and the Northeast WRF basin to the north. The US-19 and Gulf-to-Bay Blvd. corridors are areas of high development intensity. **Figure 6-1** presents an overview of the East WRF basin. The basin contains 11 City lift stations and a large portion of the wastewater generated in the basin flows by gravity directly to the East WRF. There are also 14 private lift stations in the basin that discharge to the collection system.

6.2 GRAVITY LINES

6.2.1 Inventory

The East WRF basin contains 74 miles of gravity mains, ranging in size from 2-inches to 36-inches in diameter. Approximately 3,100 feet is less than 8-inches and should be field inspected to verify the pipe diameter or determine if the pipe should be reclassified as a lateral. Vitrified clay pipe is the predominant pipe material comprising 60% of the total length. Twenty-one percent of the pipe length is of unknown material. **Tables 6-1 and 6-2** present a breakdown of the pipe material and diameter.

The large diameter mains in the basin correspond to two major trunk lines running along the shore of Tampa Bay. The trunk line to the north is 36-inch main along South Bayshore Blvd that serves the north part of the basin as well as, when needed, accepting flow from LS-58 in the Northeast basin. The trunk to the south receives most of the flow from the lift stations in the service area.



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TETRA TECH

0 4,000 Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

EAST WRF BASIN OVERVIEW

FIGURE 6-1

Table 6-1. East WRF Basin
Gravity Main Diameter Summary

Diameter (in)	Length (ft)	Percentage
2-inch	48	0.01%
4-inch	400	0.10%
6-inch	2,694	0.69%
8-inch	323,225	82.76%
10-inch	9,957	2.55%
12-inch	5,836	1.49%
15-inch	7,663	1.96%
18-inch	5,310	1.36%
20-inch	3,056	0.78%
24-inch	2,308	0.59%
30-inch	16,058	3.73%
36-inch	14,853	3.80%
Total	**390,547**	**100%**

Table 6-2. East WRF Basin
Gravity Main Material Summary

Material	Length (ft)	Percentage
Cast Iron	5,637	1.44%
Concrete Pipe	538	0.14%
Clay Tile	980	0.25%
Ductile Iron Pipe	4,100	1.05%
Fiberglass Reinforced Pipe	9,539	2.44%
Lined	25,402	6.60%
Polyethylene	2,239	0.57%
Polypropylene	260	0.07%
Polyvinyl Chloride	21,051	5.39%
Reinforced Concrete Pipe	2,391	0.61%
Vitrified Clay Pipe	235,987	60.42%
Unknown	82,421	21.10%
Total	**390,547**	**100.00%**

6.2.2 Condition Assessment

The condition for the gravity mains in the East WRF basin is shown in **Figure 6-2**. The condition for 62% of the pipe length was obtained from CCTV data and the condition for the remaining 38% was estimated using age and pipe material. Approximately 236,000 feet or 47% of the system is identified as condition 4 or 5. Condition 4 and 5 mains are pervasive throughout the basin particularly along Gulf-to-Bay Blvd. The main trunk line along South Bayshore Blvd. has a score of 3 and 4. The main trunk line from the south into the East WRF has been rehabilitated and has a condition of 1.

6.2.3 Business Risk Evaluation

Figure 6-3 provides a breakdown of the BRE results for the gravity mains. A total of 110,000 feet or 22% of the total pipe length requires priority-program rehab or high priority-program rehab action. Most of the priority mains are located along Gulf-to-Bay Blvd and South Bayshore Blvd.

Legend

- East WRF Basin
- Other WRF Basin Areas
- WRF Location
- East WRF Lift Station
- Private Lift Station
- Other City Lift Stations

Gravity Main Condition

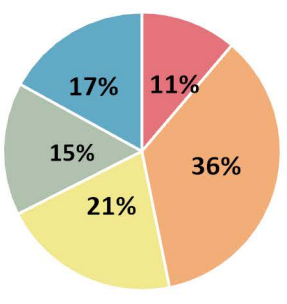
- 5
- 4
- 3
- 2
- 1
- Other Gravity Main

Marshall Street WRF

East WRF

Gravity Main Condition

Unserviceable	5	56,591	11%
Renewal Req.	4	179,946	36%
Main. Req.	3	104,745	21%
Minor Defects	2	78,152	15%
Very Good	1	85,877	17%
Sub Total		505,310	100%



Source: City of Clearwater Utilities Data

TETRA TECH

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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

EAST WRF BASIN
GRAVITY PIPING CONDITION

FIGURE 6-2

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\ClearwaterFigures_Test.aprx_FIGURE 6-2[betty.morris 5/21/2021]

Legend

- East WRF Basin
- Other WRF Basin Areas
- WRF Location
- East WRF Lift Station
- Private Lift Station
- Other City Lift Stations

Gravity Main BRE Result

- 4
- 3
- 2
- 1
- Other Gravity Main

Marshall Street WRF

East WRF

283A1030
280A2096
289A4105
298B7255
299B8125
315A4155
315A2090
315A2085
316B8042
317B5200

LS-19
LS-47
LS-40
LS-43
LS-S
LS-R
LS-P
LS-78
LS-33
LS-T
LS-37
LS-34
LS-X
LS-E
LS-D
LS-05

Gravity Main BRE Result

High Priority Immediate	High Priority Program Rehab	Priority Program Rehab	Frequent Condition Evaluation	Regular Monitoring	Sub Total
0	3,257	107,294	228,655	166,104	505,310

Gravity Main Consequence of Failure

Gravity Main Condition		Severe 5	Significant 4	Moderate 3	Low to Moderate 2	Low 1	Sub Total
Unserviceable	5	0	2,747	19,419	33,399	1,026	56,591
Renewal Req.	4	510	7,919	45,531	122,651	3,334	179,946
Main. Req.	3	0	3,169	34,997	63,236	3,342	104,745
Minor Defects	2	0	1,268	22,615	51,560	2,709	78,152
Very Good	1	0	5,276	32,478	46,201	1,923	85,877
	Sub Total	510	20,378	155,039	317,047	12,335	505,310

Source: City of Clearwater Utilities Data

TETRA TECH

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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

EAST WRF BASIN
GRAVITY PIPING BRE RESULTS

FIGURE 6-3

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\ClearwaterFigures_Test.aprx , FIGURE 6-3|betty.morris 5/21/2021

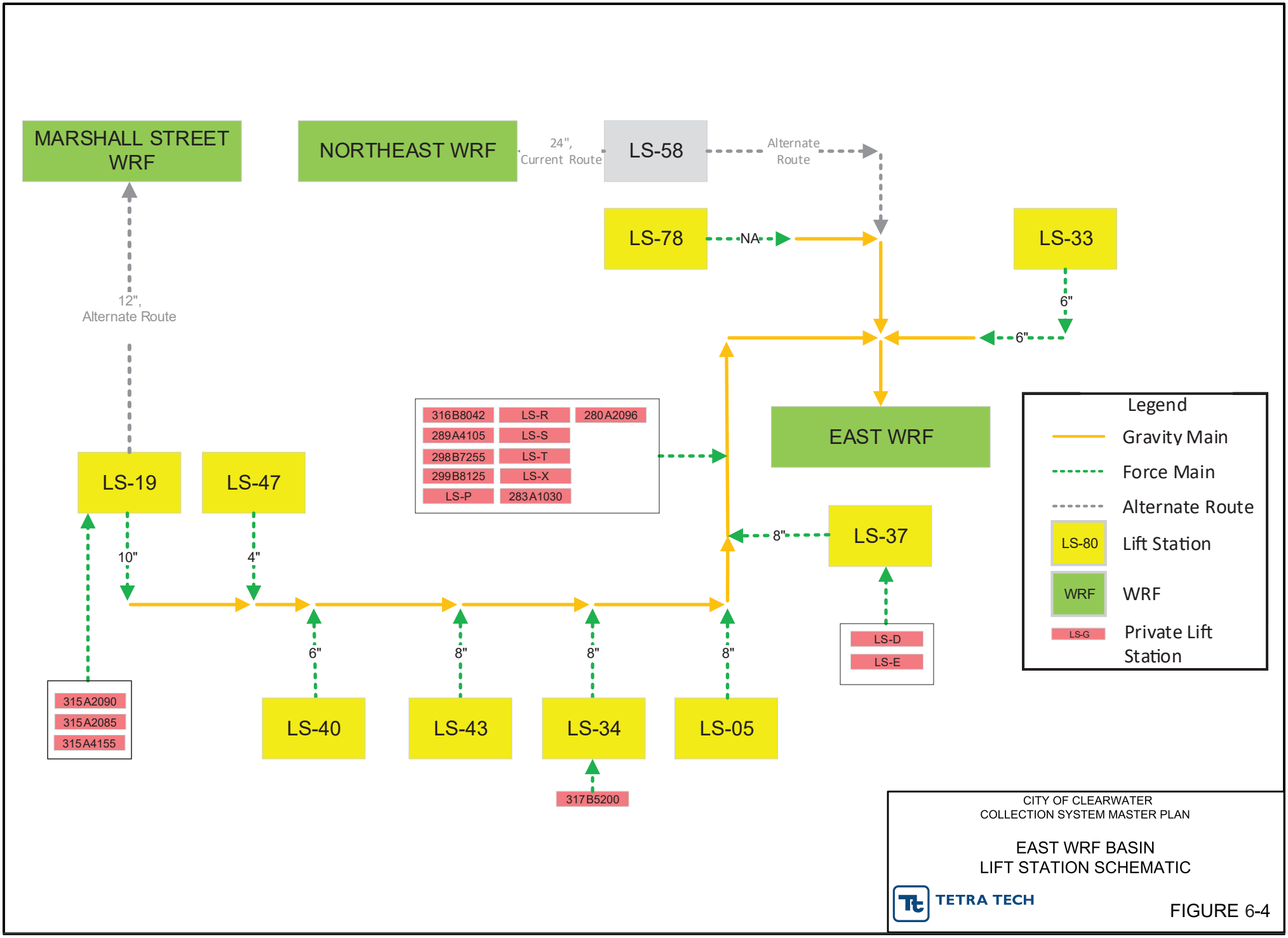
6.3 LIFT STATIONS

6.3.1 Inventory

There are a total of 10 lift stations in the East WRF basin. **Figure 6-4** presents a schematic of the lift stations. All lift stations in the basin pump to the gravity system which connects directly to the East WRF. **Table 6-3** presents a summary of the lift stations. Major lift stations in the basin, with single pump capacities greater than 1,000 gpm include:

- LS-19 – In regular operation pumps to the East WRF basin but can alternatively pump to the Marshall Street WRF Basin.
- LS-40 - provides service to the southwest portion of the basin.

LS-19 which lies within the Marshall Street WRF Basin typically pumps to the East WRF, however there is pipe that allows the wastewater flow to be redirected to the Marshall Street WRF. A manhole located near LS-58, in the Northeast WRF basin contains an overflow weir that allows wastewater to divert to the East WRF in the event levels in the lift station reach a high elevation.



CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

EAST WRF BASIN
LIFT STATION SCHEMATIC

TETRA TECH

FIGURE 6-4

Table 6-3. East WRF Basin Lift Stations

Lift Station	Approximate Address	No. of Pumps	Wet Well Size (feet)	Wet Well Depth (feet)	Pump Best Efficiency Point[1]		Measured Pump Drawdown (gpm) P1/P2/P3[2]	Measured Pump Discharge Pressure (feet) P1/P2/P3[3]
					Flow (gpm)	TDH (feet)		
5	18501 US 19 S. (Behind Business Center)	2	6 (dia.)	19	620	35.5	204/225/X	-
19	1449 Jeffords St. @ San Remo	2	10 (dia.)	18.7	1075	97.5	1506/1470/X	-
33	3400 Gulf-to-Bay Blvd.	2	6 (dia.)	20	320	26.9	190/212/X	18/18
34	18746 US 19 S (Far Horizon Park)	2	6 (dia.)	14.5	420/460	44/49	449/561/X	-
37	19051 US 19 S.	2	8 (dia.)	17.5	650	33.5	391/353/X	-
40	1898 Belleair Rd.	2	8 (dia.)	24.2	1140	65	698/583/X	42/42
43	1575 Belcher Rd. S.	2	8 (dia.)	17.1	380/400	25/34	378/314/X	-
47	1250 Bell Dr. (@ Bellcheer Dr.)	2	5.5 x 10.5	7.7	Not Available[1]	Not Available[1]	251/144/X	-
77	Eddie C. Moore Park West	2	4 (dia.)	12	Not Available[1]	Not Available[1]	28/75/X	-
78	Eddie C. Moore Park	1	4 (dia.)	7.5	Not Available[1]	Not Available[1]	94/X/X	-

Notes:
[1]Pump efficiency points are not available if pump curves were not received or requested.
[2]Drawdown testing was not available for all lift stations because of accessibility issues, safety concerns, or corroded/missing guide rails. An X indicates no pump or untested pump.
[3]Pump discharge pressure was measured via pressure gauge, if available. A majority of the lift stations did not have a pressure gauge, and if they did, only one pressure gauge was typically functioning.
[4]Lift stations highlighted in orange include pumps with single capacities greater than 1,000 gpm.

6.3.2 Condition Assessment

Table 6-4 presents a summary of the lift station condition based on field inspections conducted by Tetra Tech including a composite condition score and the score of the most severe components. The lift station elements that most frequently scored high (i.e. poor condition) included pressure gauges, service conduit and pumps.

The highest composite scores are at LS-34, and LS-47 both of which had corrosion, spalling and cracking in the wet wells. LS-19 and 40 had a score of 4 for the submersible pump condition.

Table 6-4. East WRF Tributary Lift Station Results and Scores

No.	Composite Condition Score	Most Severe Score	Most Severe Condition Component	Other Comments
34	3.53	5	Wet Well Discharge Risers	Evidence of concrete corrosion, spalling, and cracking. Discharge risers need replacement. Wet well needs cleaning. Plug valves corroded.
47	3.43	5	Structure	Concrete corrosion, spalling, and cracking in wet well.
78	3.25	5	Service Conduit	No seal offs between wet well and pump control panel. Repair/replace control panel, valve vault, and discharge risers.
77	3.05	4	Service conduit, Control Panel, Alarm light	Wet well needs cleaning. Seal offs for floats inaccessible.
40	2.77	4	Submersible Pumps	Wet well needs cleaning. Pump bail needs replacement.
37	2.71	5	Pressure Gauge	Pressure gauge needs replacement.
5	2.71	4	Wet Well Influent Pipe, Service Disconnect (Main Switch)	Repair/replace wet well influent pipe, service conduit, and main switch. Wet well needs cleaning.
43	2.37	5	Pressure Gauge	Replace pressure gauge.
19	2.20	4	Submersible Pumps, Pressure Gauge	Repair/replace pumps (1/4" hole in side of pump), pressure gauge needs replacement.
33	1.91	3	Driveway, Wet Well Influent Pipe, Submersible Pumps, Surge Suppressor	Driveway, wet well influent pipe, pumps, and surge suppressor require maintenance.

Figure 6-5 presents a summary of the lift station condition scores based on the composite score. LS-34 had the worst condition with a score of 4. Of the remaining lift stations, 7 require maintenance to correct issues found during the inspections.

6.3.3 Business Risk Evaluation

Figure 6-6 provides the BRE results for the lift stations based on the composite condition scores. LS-34 is identified as a priority-program rehab lift station requiring rehabilitation. Most of the remaining lift stations are identified as requiring frequent condition evaluation. Despite the relatively low scores in the BRE several lift stations have components that scored as unserviceable or requiring rehabilitation and should also be prioritized.

Legend

- East WRF Basin
- Other WRF Basin Areas
- WRF Location
- Other Gravity Main

Lift Station Condition

- 4
- 3
- 2
- Private Lift Station
- Other City Lift Stations

Force Main Condition

- 4
- 3
- 2
- 1
- Other WRF Force Main

Marshall Street WRF

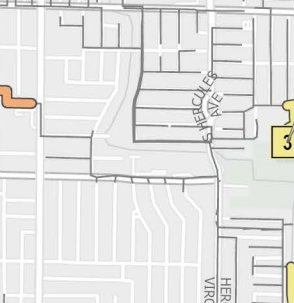
East WRF

280A2096
283A1030
289A4105
298B7255
299B8125
315A4155
315A2085
316B8042
317B5200

LS-19
LS-47
LS-40
LS-43
LS-34
LS-05
LS-37
LS-T
LS-X
LS-E
LS-D
LS-S
LS-R
LS-P
LS-78
LS-33

Force Main Condition

Unserviceable	5	0	0%
Renewal Req.	4	4,956	21%
Main. Req.	3	12,075	52%
Minor Defects	2	1,914	8%
Very Good	1	4,182	18%
Sub Total		23,127	100%



Lift Station Condition

Unserviceable	5	0	0%
Renewal Req.	4	1	9%
Main. Req.	3	7	64%
Minor Defects	2	3	27%
Very Good	1	0	0%
Sub Total		11	100%



Source: City of Clearwater Utilities Data

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\LS_FiguresLS_Figures.aprx|FIGURE 6-5|betty.morris 3/10/2021

TETRA TECH

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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

EAST WRF
LIFT STATION AND FORCE MAIN CONDITION

FIGURE 6-5

Legend

- East WRF Basin
- Other WRF Basin Areas
- WRF Location
- Other Gravity Main

Lift Station BRE Result

- 3
- 2
- 1
- Private Lift Station
- Other City Lift Stations

Force Main BRE Result

- 3
- 2
- 1
- Other WRF Force Main

Marshall Street WRF

East WRF

Force Main BRE Result

High Priority Immediate	High Priority Program Rehab	Priority Program Rehab	Frequent Condition Evaluation	Regular Monitoring	Sub Total
0	0	4,956	12,075	6,097	23,127

Lift Station BRE Result

High Priority Immediate	High Priority Program Rehab	Priority Program Rehab	Frequent Condition Evaluation	Regular Monitoring	Sub Total
0	0	1	7	3	11

Force Main Criticality

Force Main Condition		Severe 5	Significant 4	Moderate 3	Low to Moderate 2	Low 1	Sub Total
Unserviceable	5	0	0	0	0	0	0
Renewal Req.	4	0	0	4,956	0	0	4,956
Main. Req.	3	0	0	12,075	0	0	12,075
Minor Defects	2	0	0	1,914	0	0	1,914
Very Good	1	0	0	4,138	45	0	4,182
Sub Total		0	0	23,083	45	0	23,127

Lift Station Criticality

Lift Station Condition		Severe 5	Significant 4	Moderate 3	Low to Moderate 2	Low 1	Sub Total
Unserviceable	5	0	0	0	0	0	0
Renewal Req.	4	0	0	1	0	0	1
Main. Req.	3	0	0	6	1	0	7
Minor Defects	2	0	0	1	2	0	3
Very Good	1	0	0	0	0	0	0
Sub Total		0	0	8	3	0	11

Source: City of Clearwater Utilities Data

TETRA TECH

0 3,000 Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

EAST WRF BASIN
BRE LIFT STATION AND FORCE MAIN RESULTS

FIGURE 6-6

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\LS_Figures\LS_Figures.aprx|FIGURE 6-6|betty.morris 3/10/2021]

6.4 FORCE MAINS

6.4.1 Inventory

There is approximately 23,000 feet of force mains in the East WRF basin ranging in size from 4 to 10-inches in diameter. There is little information on the force main material with 78% of the total length unclassified. PVC and ductile iron make up the remaining length. **Tables 6-5 and 6-6** present the breakdown of sizes and materials for the East WRF Basin. All of the force mains in the basin discharge directly to the gravity system. All of the lift stations discharge into the gravity system. **Appendix I** presents a description of the force main segments.

Table 6-5. East WRF Basin
Force Main Diameter Summary

Diameter (in)	Length (ft)	Percentage
4-inch	791	3.42%
6-inch	8,408	36.35%
8-inch	8,949	38.69%
10-inch	4,980	21.53%
Total	**23,127**	**100%**

Table 6-6. East WRF Basin
Force Main Material Summary

Material	Length (ft)	Percentage
PVC	3,182	13.76%
DIP	1,938	8.38%
Unknown	18,008	77.86%
Total	**23,127**	**100.00%**

6.4.2 Condition Assessment

The condition of the East WRF basin force mains based on age and material is shown in **Figure 6-5**. Approximately 5,000 feet associated with LS-19 has a score of 4 and requires rehabiliation. The majority of the remaining force mains have a condition score of 3.

6.4.3 Business Risk Evaluation

Figure 6-6 presents the BRE scores for the force mains. The force main from LS-19 has a priority-program rehab ranking for renewal in the BRE. About half of the force mains in the basin require frequent condition evaluation.

6.4.4 Air Release Valves

There are no known ARVs in the East WRF Basin.

6.5 HYDRAULIC MODEL RESULTS

The capacity analysis completed on the calibrated model was used to identify capital improvement needs at gravity mains, force mains and lift stations for each wastewater treatment plant basin to meet the selected LOS. **Figure 6-7** presents results for projected surcharging and flooding locations during the 25-year, 24-hour design storm at the East WRF Basin. **Figure 6-8** presents model results for force main in the East WRF Basin. All existing force main are sized to limit maximum velocities to less than 8 feet per second (fps) for the design storm event. The maximum force main pressure does not exceed 50 psi and considered to within acceptable limits. Refer to Section 4.2.3 for discussion of specific capacity issues within the East WRF Basin.

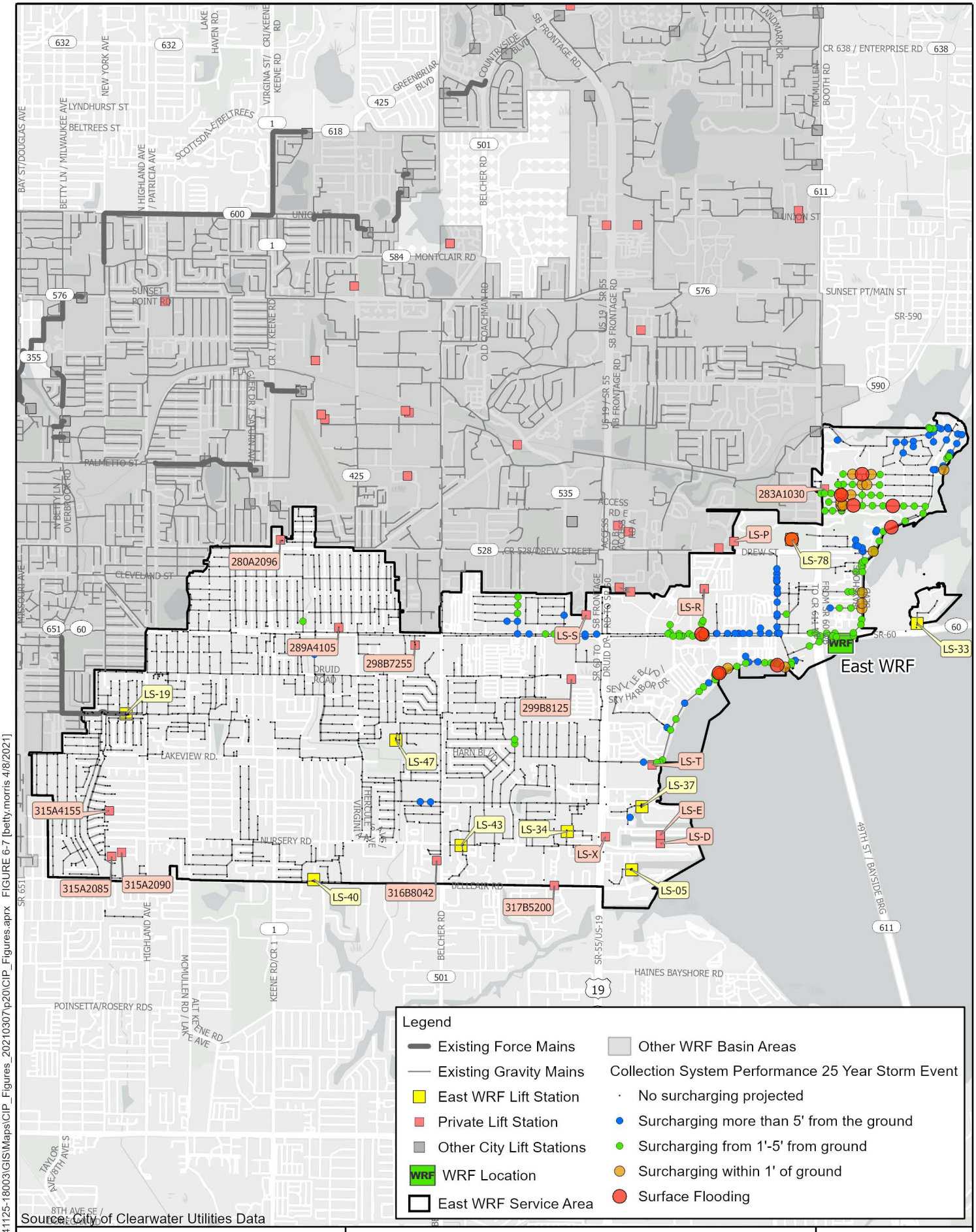
Within the East WRF Basin, nine (9) of the ten (10) public lift stations were included in the model. The one lift station not included in the model, LS-77, is small duplex station serving a single customer. The flows from this lift station areas are accounted for in the model. **Table 6-7** provides summary results for each lift station in the East WRF Basin area. The table provides the model predicted 25-year, 24-hour design storm event peak flow rate, including information on how the lift station was modeled. Those lift stations modeled with a pump curve have capacities that vary with flow and hydraulic gradeline at the force main discharge point. Those lift stations (or pumps) where pump curves were not available were modeled with a constant pumping capacity based on draw-down testing for each pump. The use of a pump curve provides a higher level of certainty on the predicted pump performance. The use of a constant pump capacity could over or under-predict a pumps actual performance for the design storm.

Table 6-7. East WRF LS Model Results During 25-Year, 24-Hour

Lift Station	Modeling Method	Peak Flow, gpm[1]	Comments
5	Pump Curves	150	Sufficient capacity, no flooding predicted.
19	Pump Curves	970	Sufficient capacity, no flooding predicted.
33	Pump Curves	250	Sufficient capacity, no flooding predicted.
34	Pump Curves	110	Sufficient capacity, no flooding predicted.
37	Pump Curves	200	Sufficient capacity, no flooding predicted.
40	Pump Curves	250	Sufficient capacity, no flooding predicted.
43	Pump Curves	120	Sufficient capacity, no flooding predicted.
47	Constant Flow Rate	50	Sufficient capacity, no flooding predicted. No pump curves available, recommend obtaining pump curves.
77	Not Modeled	-	Small lift station, not modeled.
78	Constant Flow Rate	220	Insufficient capacity and flooding predicted. No pump curves available, recommend obtaining pump curves.[2]

Notes::

1. Peak flow into the lift station for the 25-year, 24-hour design storm event under 2050 growth conditions.
2. Modeling results for LS 78 are not considered sufficiently reliable to implement an improvement project. The lift station serves a single ballpark with little wastewater contribution. Further investigation of this lift station is recommended in Section 6.6.3.
3. Lift stations in red represent capacity issues.



Source: City of Clearwater Utilities Data

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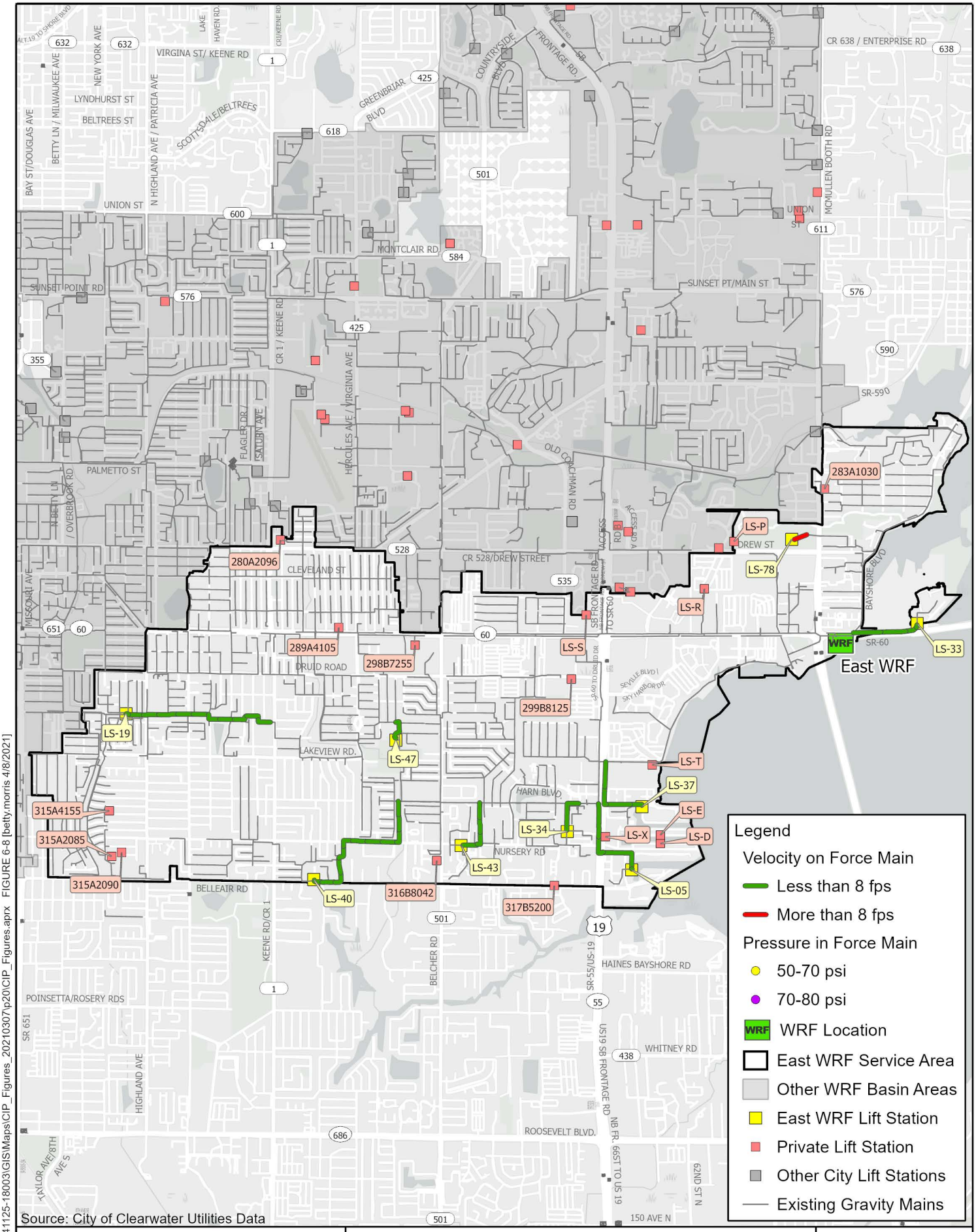
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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

East WRF Surcharging Locations
During 25-Year, 24-Hour Design Storm

FIGURE 6-7

P:\ER\41125\200-41125-18003\GIS\Maps\CIP_Figures_20210307\p20\CIP_Figures.aprx FIGURE 6-7 [betty.morris 4/8/2021]



TETRA TECH

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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

East WRF Velocities and Pressures
in Force Mains During 25-Year, 24-Hour Design Storm

FIGURE 6-8

P:\IER\41125\200-41125-18003\GIS\Maps\CIP_Figures_20210307\p20\CIP_Figures.aprx FIGURE 6-8 [betty.morris 4/8/2021]

6.6 RECOMMENDATIONS

Recommendations for the East Basin include:

1. Capacity related capital projects determined by the hydraulic model required to meet the designated LOS.
2. R&R projects determined by the BRE analysis.
3. Other recommendations.

6.6.1 Capacity Related Capital Improvement Projects

Four capital improvement projects were identified at the East WRF Basin.

6.6.1.1 EAS-01 – East WRF Influent Pump Station

The East WRF influent pump station (IPS) lacks firm capacity to convey peak flows during the 25-year, 24-hour design storm event. The IPS requires upsizing to prevent flooding along the Gulf to Bay Boulevard and South Bayshore Boulevard (both north and south of the WRF). Due to the possibility of flow diversions, the size of the improvements at the East WRF IPS are contingent on the selection of alternatives NRE-01 and NRE-02.

If NRE-01-A and NRE-02-A are selected, the following improvements are recommended at the East WRF:

- Replace/improve a combination of the pumps and wet well size to increase the IPS's firm capacity to 16,300 gpm (23.5 MGD).
- Replace approximately 150-feet of the existing forcemain that conveys the flows from the IPS to primary treatment to a 36- or 42-inch pipe, depending on improvements made, or add a parallel force main if existing forcemain is in good condition.

If NRE-01-B and NRE-02-B are selected, the following improvements are recommended at the East WRF:

- Replace/improve a combination of the pumps and wet well size to increase the IPS's firm capacity to 13,200 gpm (19.0 MGD).
- Replace approximately 150-feet of the existing forcemain that conveys the flows from the IPS to primary treatment to a 30- or 36-inch pipe, depending on improvements made, or add a parallel force main if existing force main is in good condition.

The alternative analysis presented in Section 7.6.1.1 Alternative B was selected as the most cost-effective alternative. Other improvements may be necessary at the East WRF to hydraulically accommodate the increased peak flow. Further evaluation will be necessary to include recommendations at the WRF which fall outside of the scope of this project.

6.6.1.2 EAS-02 – Gulf to Bay Boulevard

The 15- to 36-inch along Gulf to Bay Boulevard from Sky Harbor Drive to the East WRF is undersized and predicted to cause flooding during the design storm event. Approximately 5,100-feet of replacement gravity main is necessary to convey the projected 25-year, 24-hour design storm peak flows.

Along this stretch of gravity main, 1,514-feet (30-percent) and 276-feet (5-percent) of pipes had a priority-program rehab and high priority-program rehab, BRE result respectively.

Figure 6-9 shows the recommended improvements. From downstream to upstream, the gravity main replacements are as follows:

- From East WRF IPS to MH 301A3007 – Replace approximately 200-foot main section from a 36-inch with a proposed 48-inch main from the East WRF IPS to Gulf to Bay Boulevard.

- From MH 301A3007 to MH 301A3005 - Replace approximately 400-foot main section from a 30-inch with a proposed 42-inch main along Gulf to Bay Boulevard from just north of the East WRF IPS to S. McMullen Booth Road.
- From MH 301A3005 to MH 291B6090 - Replace approximately 3,800-foot main section from a 15-inch with a proposed 21-inch main along Gulf to Bay Boulevard from S. McMullen Booth Road to David Avenue.
- From MH 291B6090 to MH 291A4105 – Replace approximately 700-feet of existing 15-inch main with a proposed 18-inch main along Gulf to Bay Boulevard from David Avenue to Mall Perimeter Drive.

6.6.1.3 EAS-03 – Del Oro Groves Residential Neighborhood

Approximately 2,500-feet of existing 8-inch main along San Mateo Street, from Monterey Avenue to Bayshore Boulevard lacks capacity to convey the projected 25-year, 24-hour peak flows which causes surface flooding at 4 locations in the residential neighborhood.

Along this stretch of gravity main, 72-feet (3-percent) of pipes had a priority-program rehab BRE result. There are no high priority-program rehab BRE assets.

Figure 6-9 shows the recommended improvements. From downstream to upstream, the gravity main replacement are as follows:

- From MH 283A7080 to MH 283A3110 – Replace approximately 2,150-feet of existing 8-inch main with 12-inch mains along San Mateo Street.
- From MH 283A3110 to MH 283A3080 – Replace approximately 350-feet of existing 8-inch main with a proposed 12-inch main along Monterey Avenue, between San Mateo Street and San Bernardino Street.

6.6.1.4 EAS-04 – Gravity Main Replacement Along Bayshore Boulevard

Upstream of LS-58, at McMullen Booth Road and Alligator Creek, an existing weir diverts flow from the Northeast WRF Basin into the East WRF Basin when depth of flow exceeds 1.3 feet of depth at manhole 274A4010. In Section 7 of this report, two alternatives are provided to resolve local capacity issues in the LS-58 basin. **Alternative A** of these improvements would result in a significant amount of flow overtopping the diversion weir, then creating a capacity limitation in the 36-inch trunk main along Bayshore Boulevard that would result in predicted flooding at Bayshore Boulevard. If **Alternative A** is chosen for projects **NRE-01** and **NRE-02**, then improvement EAS-04 would be necessary in the East WRF Basin. If **Alternative B** for **NRE-01** and **NRE-02** are selected, a significant portion of flow would be diverted from the Alligator Creek diversion weir and EAS-04 would not be required.

Approximately 7,500-feet of existing 30- and 36-inch gravity main along Bayshore Drive are projected to be undersized during the 25-year, 24-hour design storm with 2050 Projected Growth. The gravity main capacity limitation is projected to cause flooding near North Bayshore Boulevard and San Jose Street, just behind a residential complex by the Old Tampa Bay coastline.

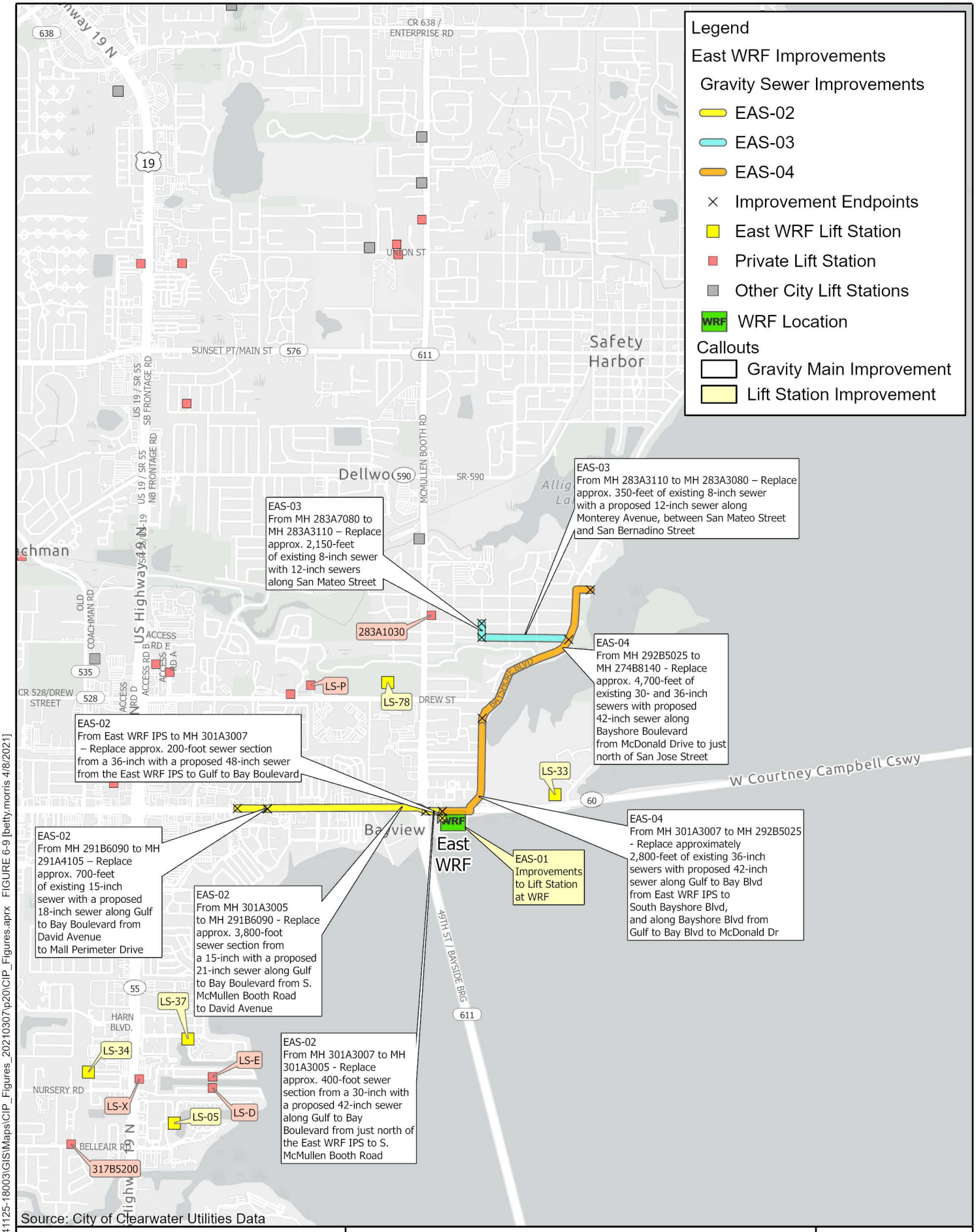
Along this stretch of gravity main, 4,227-feet (66-percent) and 342-feet (5-percent) of pipes had a priority-program rehab and high priority-program rehab, BRE result respectively.

Figure 6-9 shows the recommended improvements. From downstream to upstream, the following gravity main replacements are needed:

- From MH 301A3007 to MH 292B5025 - Replace approximately 2,800-feet of existing 36-inch mains with proposed 42-inch main along Gulf to Bay Boulevard from just north of the East WRF IPS to South Bayshore Boulevard, and along Bayshore Boulevard from Gulf to Bay Boulevard to McDonald Drive.

- From MH 292B5025 to MH 274B8140 - Replace approximately 4,700-feet of existing 30- and 36-inch mains with proposed 42-inch main along Bayshore Boulevard from McDonald Drive to just north of San Jose Street.

Based on the alternative analysis presented in Section 7.6.1.1 below Alternative A is the preferred alternative and EAS-04 is not needed.



P:\IER\41125\200-41125-18003\GIS\Maps\CIP_Figures_20210307\p20\CIP_Figures.aprx FIGURE 6-9 [betty.morris 4/8/2021]

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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

EAST WRF IMPROVEMENTS

FIGURE 6-9

6.6.1.5 Summary

Table 6-8, below, includes a summary of the capital improvement projects identified within the East WRF Basin, and the scheduled planning period. The scheduling of the projects by planning period was determined by the following criteria:

- Projects with modeled SSOs at the design storm under current conditions are scheduled for implementation within ten years, by 2030, with priority placed on projects that reduce SSOs for storm events less than the design storm.
- Projects that exceed LOS due to growth are scheduled for implementation in the planning period where the growth occurs.
- Projects that occur along routes of known pavement resurfacing are recommended for implementation prior or concurrent with the resurfacing. Specific information regarding the timeframe is provided in the notes for **Table 6-8** for affected projects.
- Projects that rely upon the completion of other projects are discussed in the notes of **Table 6-8**.

Table 6-8. East WRF Basin Capital Improvement Projects

Project	Planning Period	Notes
EAS-01	To 2030 (Within 5 Years)	Insufficient capacity under existing conditions during the 25-year, 24-hour design storm event. Project must be sequenced with Projects NRE-01 and NRE-02. Additional analysis needed at the East WRF to accommodate the additional influent flow.
EAS-02	To 2030 (6 to 10 Years)	Insufficient capacity under existing conditions during the 25-year, 24-hour design storm event.
EAS-03	To 2030 (Within 5 Years)	Insufficient capacity under existing conditions during the 25-year, 24-hour design storm event. The roadway was resurfaced in 2019 as part of the City's road resurfacing program.

6.6.2 Renewal and Replacement

The R&R recommendation consists of a risk prioritized program that can be implemented year-to year to systematically improve the system. The BRE results provide an indication of priority whereas actual project definition and scheduling of the projects is dependent upon budgetary constraints, best practices and institutional capacity. The pipe lengths and manhole counts are summarized in the following subsections. Specific asset identification and location is provided in the GIS shapefiles provided as a supplement to this report as described in **Appendix L**.

6.6.2.1 Gravity Mains

Table 6-9 presents a prioritized summary of R&R actions by length of pipe based upon the decision tree presented in Section 2.6.6.1 for the East Basin gravity mains. Approximately 195,000 feet is recommended for CCTV inspection to determine its condition based on PACP data. Short term CCTV priority is given to those pipe segments with an indicated condition score (based on age and material) of 4 or 5. Pipe segments with indicated condition scores of 3 or less are considered for longer term CCTV work.

Of the total basin gravity pipe length of 832,000 feet approximately 64,000 is recommended for R&R. It's important to note that as CCTV is completed, and actual conditions determined for the pipe segments the R&R program should be reprioritized.

Table 6-9. Gravity Mains R&R - Pipe Length

BRE Result	Highest Priority (Immediate)	High Priority-Program Rehab	Priority-Program Rehab	CCTV Inspection	Frequent Condition Evaluation	Regular Monitoring	Total
CCTV Short Term	---	---	---	119,483	---	---	119,483
CCTV Long Term	---	---	---	75,005	---	---	75,005
Replace	---	1,295	38,780	---	0	0	40,075
Point Repair	---	648	9,757	---	0	0	10,405
Point Repair and Lining	---	804	8,630	---	0	0	9,434
Lining	---	---	3,974	---	0	0	3,974
O&M	---	---	---	---	111,193	135,742	246,935
Total	---	**2,747**	**61,141**	**194,487**	**111,193**	**135,742**	**505,310**

6.6.2.2 Manholes

Lacking condition data, a BRE result for manholes is extrapolated from the gravity main BRE as described in Section 2.6.6.2. As the City implements a manhole inspection program, the prioritization and budgeting of the R&R program should be reevaluated. Based on the assumptions presented, **Table 6-10** presents the manhole R&R program. High priority and priority manhole IDs are identified in **Appendix K**.

Table 6-10. Manhole R&R – Each

Implied BRE Result	Highest Priority (Immediate)	High Priority-Program Rehab	Priority-Program Rehab	Frequent Condition Evaluation	Regular Monitoring	Total
Manhole Replacement	1	5	129	0	0	135
Coating (Min. Deterioration)	---	5	129	0	0	134
Coating (Sign. Deterioration)	---	5	129	0	0	134
Misc. Repair	---	5	129	0	0	134
O&M	---	2	128	959	445	1534
Total	**1**	**22**	**644**	**959**	**445**	**2,071**

6.6.2.3 Lift Stations

Prioritization for lift station R&R is based on BRE result and composite condition score as described in Section 2.6.6.3. **Table 6-11** presents the priority list for lift stations composite scores greater than 3.0. Lift Station 34 as a BRE rating of priority program rehab. The remaining lift stations in the East WRF Basin have a BRE result of Frequent Condition Evaluation.

Table 6-11. Lift Station R&R

Lift Station	Approximate Address	BRE Result	Composite Condition Score
34	18746 US 19 S (Far Horizon Park)	Priority – Program Rehab	3.53
47	1250 Bell Dr. (@ Bellcheer Dr.)	Frequent Condition Evaluation	3.43
78	Eddie C. Moore Park	Frequent Condition Evaluation	3.25
77	Eddie C. Moore Park West	Frequent Condition Evaluation	3.05

6.6.2.4 Force Mains and Air Release Valves

Prioritization of force main R&R is based on BRE result as described in Section 2.6.6.4 The force main R&R project identified in **Table 6-12** shows 5,100 feet of 10-inch line with a Frequent Condition Evaluation BRE result and a condition score of 4, indicating repair or replacement is needed. Therefore, this project was placed in the 2031 to 2050 planning period.

Table 6-12. Force Main R&R

Force Main Description	BRE Result	Condition Score	Length (ft)	Planning Period
LS 19 10” Discharge FM	Frequent Condition Evaluation	4	4,956	2031 to 2050

6.6.3 Future Flow Monitoring & Model Recalibration

The East WRF Basin has a total of three (3) flow meters during the 2017-2019 flow monitoring period. Meter E1A alone had a total tributary area of 3,136 acres, which is more than double the size of the average tributary area per meter overall and 74-percent of the total tributary area to the East WRF. In general, the further away you are from a calibration flow meter location, the less accurate the model becomes. Therefore, although this site is well calibrated and met all calibration standards, areas that are further away from the meter have a greater uncertainty of matching actual conditions. For this reason, we recommend adding at least 4 meters upstream of meter E1A, to increase the level of accuracy in this part of the model and maintain the tributary areas under 900 acres per meter.

Another abnormal observation at this site was at LS-78, which collects wastewater flows from the Eddie C. Moore Softball Complex. According to draw down test, this simplex pump station cannot keep up with local flows during the projected peak flows of the 25-year, 24-hour design storm. This could be a problem with flow allocation in the model or a real issue of lack of capacity / maintenance issue at the lift station. The composite condition score for this lift station was 3.25, and recommendations were given to repair/replace control panel, valve vault, and discharge risers. Before any capital improvement project is recommended at this location to increase the capacity of the local lift station, additional flow metering should be performed to confirm existing conditions.

The City’s ongoing flow monitoring program collects valuable data that can be used to further improve the model. The following recommendations have been identified for the City to consider for its ongoing flow monitoring efforts in the East WRF:

- ***E1A, E2A, E3A2*** – Maintain all 3 primary meters, which measure flows from the 3 mayor branches that discharge to the East WRF.
- The following areas are recommended for sub-dividing the area tributary to E1A:
  - ***LS-19*** – Install a flow meter upstream of LS-19 in the 18-inch pipe effluent of MH 307A1180

- ***MH 309B8050 –*** At this location flows can be measured in the 30-inch influent pipe just upstream of Alligator Creek
- ***MH 308B5150 –*** At this location flows can be measured just downstream of neighborhood that is currently experiencing frequent flooding, according to the City.
- ***MH 298A1110 –*** At this location flows can be measured just downstream of neighborhood that is currently experiencing frequent flooding, according to the City.

- **LS-78 –** Additional flow monitoring is recommended at this site to investigate the local flows coming from this lift station and the local residential neighborhood. This would increase the accuracy of the model to provide additional recommendations at the lift station. Recommend meter placement at MH 283A4070. Anywhere further downstream is not recommended due to hydraulic conditions.

7.0 NORTHEAST WRF BASIN

7.1 INTRODUCTION

The Northeast WRF Basin contains much of the more recently developed areas in the City. The basin is generally bounded by the Marshall Street WRF basin and the City of Dunedin on the west, the Town of Safety Harbor on the east, the East WRF basin to the south and the Pinellas County service area to the north. The US19 and McMullen-Booth Road corridors are locations of high intensity development. **Figure 7-1** presents an overview of the Northeast WRF basin. The basin contains 23 City owned lift stations.

7.2 GRAVITY LINES

7.2.1 Inventory

The Northeast WRF basin contains 606,000 feet of gravity mains, ranging from 4-inches to 36-inches in diameter. Approximately 2,200 feet is less than 8-inches and should be field inspected to verify the pipe diameter or determine if the pipe should be reclassified as a lateral. Vitrified clay pipe is the predominant pipe material followed by PVC. Thirty-six percent of the pipe length is of unknown material. **Tables 7-1 and 7-2** present a breakdown of the pipe material and diameter.

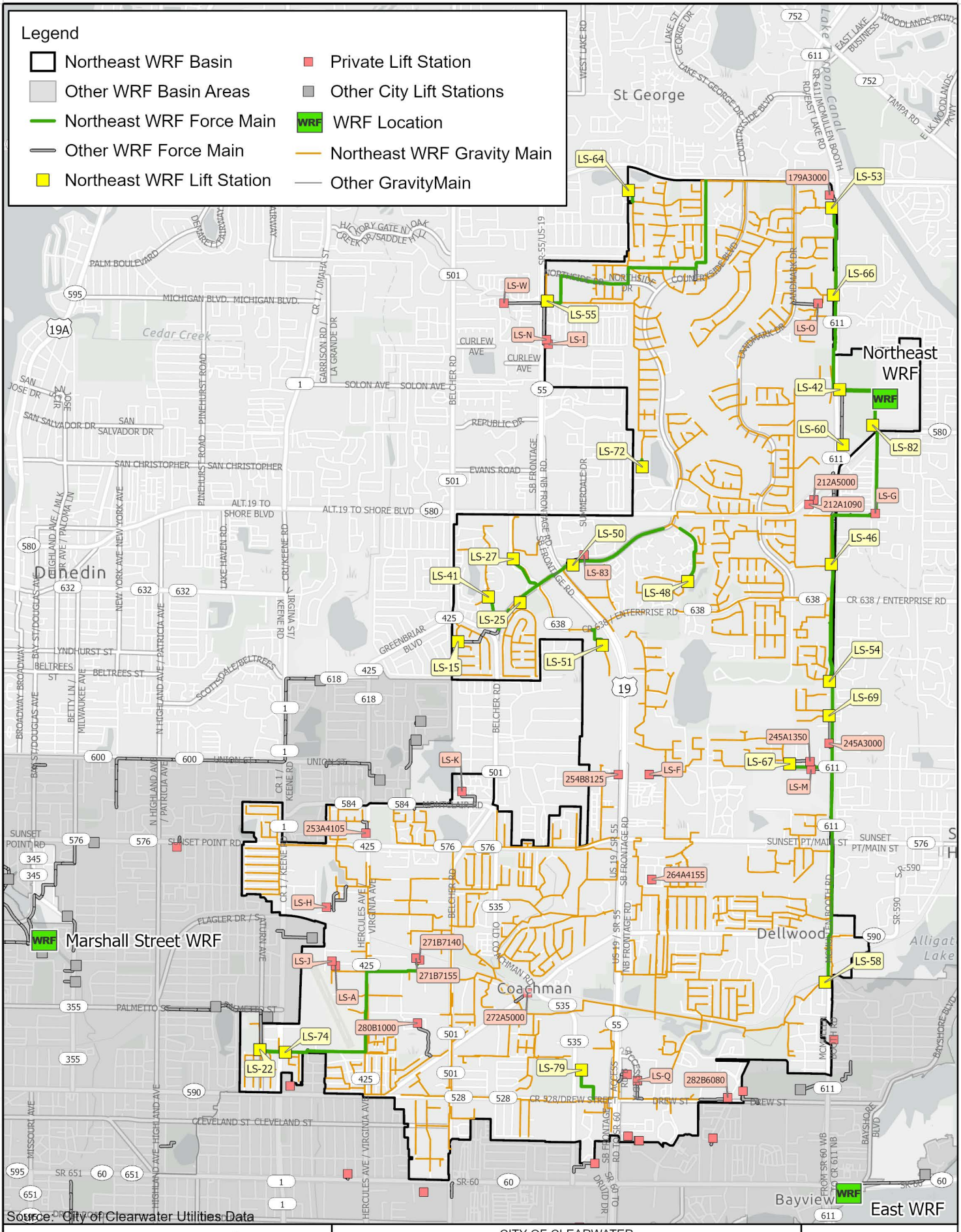
Large mains in the basin correspond to three major trunk lines. The largest trunk line collects wastewater from nearly the entire southern portion of the basin to LS-58. Another trunk line consisting of 18, 20 and 24-inch pipe runs through the middle of the basin and discharges to LS- 42. The third line serves the north portion of the basin and discharges to LS-53.

Table 7-1. Northeast WRF Basin Gravity Main Diameter Summary

Diameter (in)	Length (ft)	Percentage
4-inch	948	0.16%
6-inch	1,273	0.31%
8-inch	484,503	79.94%
10-inch	32,587	5.38%
12-inch	28,131	4.64%
14-inch	4,664	0.77%
15-inch	14,394	2.37%
16-inch	1,346	0.22%
18-inch	17,409	2.87%
20-inch	2,365	0.39%
24-inch	3,318	0.55%
30-inch	12,696	2.09%
36-inch	2,117	0.35%
Total	**606,117**	**100.00%**

Table 7-2. Northeast WRF Basin Gravity Main Material Summary

Material	Length (ft)	Percentage
Cast Iron	18,177	3.00%
Clay Tile	210	0.03%
Ductile Iron Pipe	6,320	1.04%
Fiberglass Reinforced Pipe	7,497	1.24%
Lined	2,334	0.39%
Polyvinyl Chloride	83,914	13.84%
Reinforced Concrete Pipe	9,012	1.49%
Vitrified Clay Pipe	263,080	43.40%
Unknown	215,575	35.57%
Total	**606,117**	**100.00%**


Legend
Northeast WRF Basin
Other WRF Basin Areas
Northeast WRF Force Main
Other WRF Force Main
Northeast WRF Lift Station
Private Lift Station
Other City Lift Stations
WRF Location
Northeast WRF Gravity Main
Other GravityMain
Northeast WRF
Marshall Street WRF
East WRF
St George
Cedar Creek
Dunedin
Coachman
Dellwood
Bayview
LS-64
179A3000
LS-53
LS-66
LS-W
LS-55
LS-N
LS-I
LS-O
LS-42
LS-60
LS-82
LS-72
212A5000
212A1090
LS-G
LS-50
LS-46
LS-27
LS-41
LS-83
LS-48
LS-25
LS-15
LS-51
LS-54
LS-69
245A1350
245A3000
LS-67
LS-F
LS-M
LS-K
254B8125
253A4105
LS-H
264A4155
271B7140
271B7155
LS-J
LS-A
272A5000
280B1000
LS-74
LS-22
LS-79
LS-Q
282B6080
LS-58
CR 638 / ENTERPRISE RD
SR-590
SR 651
SR-60
Source: City of Clearwater Utilities Data
TETRA TECH
0
4,000
Feet
CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
NORTHEAST WRF BASIN OVERVIEW
FIGURE 7-1
P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures_Test.aprx ,FIGURE 7-1[betty.morris 5/21/2021]

7.2.2 Condition Assessment

The condition for the gravity mains in the Northeast WRF basin is shown in **Figure 7-2**. The condition for 28% of the pipe length was obtained from CCTV data and the condition for the remaining 72% was estimated using age and pipe material. Approximately 76,000 feet or 12% of the system is identified as condition 4 or 5. The majority of the mains, 57%, has a condition score of 3. Condition 4 and 5 mains are primarily located in the southern portion of the basin including a length of 30-inch and 36-inch diameter pipe discharging to LS-58.

7.2.3 Business Risk Evaluation

Figure 7-3 presents the results of the BRE for the Northeast WRF basin gravity mains. Approximately 53,000 feet of pipe length is identified as a priority-program rehab, however, only 228 feet is highest priority and 313 is high priority-program rehab. As of the writing of the Master Plan this segment is being rehabilitated. Most of the priority mains are located in the south end of the basin.

Legend

- Northeast WRF Basin
- Other WRF Basin Areas
- WRF WRF Location
- Northeast WRF Lift Station
- Private Lift Station
- Other City Lift Stations

Gravity Main Condition

- 5
- 4
- 3
- 2
- 1
- Other Gravity Main

Northeast WRF

East WRF

LS-64 LS-53 LS-66 LS-O LS-42 LS-82 LS-60 LS-72 LS-G LS-46 LS-54 LS-69 LS-67 LS-58 LS-W LS-55 LS-N LS-I LS-27 LS-50 LS-83 LS-48 LS-41 LS-25 LS-15 LS-51 LS-K LS-F LS-H LS-J LS-A LS-74 LS-22 LS-79 LS-U LS-Q

179A3000 212A5000 212A1090 245A3000 245A1350 254B8125 253A4105 264A4155 271B7155 271B7140 272A5000 280B1000 282B6080

SR-586/CURLEW RD. CURLEW AVE CURLEW AVE SOLON AVE REPUBLIC DR EVANS ROAD NORTHSIDE DR LANDMARK DR CR 611/MCMULLEN BOOTH RD/EAST LAKE RD COUNTRYSIDE BLVD TAMPA RD TAMPA ROAD REALIGNED SR 590 BR. SAN CHRISTOPHER ALT.19 TO SHORE BLVD SB FRONTAGE RD NB FRONTAGE RD SUMMERDALE DR LAKE HAVEN RD CR1/KEENE RD VIRGINA ST/ KEENE RD LYNDHURST ST BELTREES ST SCOTTSDALE/BELTREES N.HIGHLAND AVE / PATRICIA AVE GREENBRIAR BLVD BELCHER RD UNION ST MONTCLAIR RD SUNSET POINT RD CR 1 / KEENE RD FLAGLER DR / SATURN AVE PALMETTO ST CLEVELAND ST OLD COACHMAN RD CR 528/DREW STREET DREW ST CR 638 / ENTERPRISE RD SUNSET PT/MAIN ST SR-590 BAYSHORE BLVD US 19 / SR 55 SB FRONTAGE RD US 19 / SR 55 NB FRONTAGE RD ACCESS RD A ACCESS RD B ACCESS RD D ACCESS RD E SR 60 TO DRUID DR DRUID DR SR 60 TO SR 60 FROM CR 611 NB TO CR 611 SB FROM SR 60 WB TO SR 60 EB SR-60 SEVILLE BLVD SKY HARBOR DR DRUID ROAD LAKEVIEW RD. HARN BLVD. BELLEAIR RD HAINES BAYSHORE RD SR-55/US-19 HIGHLAND AVE ALT KEENE RD / MCMULLEN RD / LAKE AVE KEENE RD/CR 1 HERCULES AVE VIRGINIA AVE NURSERY RD

Gravity Main Condition

Unserviceable	5	20,379	3%
Renewal Req.	4	56,010	9%
Main. Req.	3	350,994	57%
Minor Defects	2	77,738	13%
Very Good	1	111,340	18%
Sub Total		616,461	100%



Source: City of Clearwater Utilities Data

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\ClearwaterFigures_Test.aprx_FIGURE 7-2[betty.morris 5/21/2021]

TETRA TECH

0 3,000 Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

NORTHEAST WRF BASIN
GRAVITY PIPING CONDITION

FIGURE 7-2

Legend

- Northeast WRF Basin
- Other WRF Basin Areas
- WRF Location
- Northeast WRF Lift Station
- Private Lift Station
- Other City Lift Stations

Gravity Main BRE Score

- 5
- 4
- 3
- 2
- 1
- Other Gravity Main

Northeast WRF

East WRF

LS-64 LS-53 179A3000 LS-66 LS-O LS-W LS-55 LS-N LS-I LS-42 LS-82 LS-60 LS-72 212A5000 LS-G 212A1090 LS-27 LS-83 LS-50 LS-46 LS-48 LS-41 LS-25 LS-15 LS-51 LS-54 LS-69 245A3000 LS-67 245A1350 254B8125 LS-F LS-K 253A4105 264A4155 LS-H LS-J 271B7155 271B7140 LS-A 272A5000 LS-58 280B1000 LS-22 LS-74 LS-79 LS-U LS-Q 282B6080

SR-586/CURLEW RD. · COUNTRYSIDE BLVD · TAMPA RD · TAMPA ROAD · HICKORY GATE TRL/OAK CREEK DR/SADDLE HILL · NORTHSIDE DR · MCMULLEN BOOTH RD/EAST LAKE RD · LANDMARK DR · LA GRANDE DR · CURLEW AVE · SOLON AVE · REPUBLIC DR · SAN CHRISTOPHER · EVANS ROAD · SB FRONTAGE RD · NB FRONTAGE RD · SUMMERDALE DR · ALT.19 TO SHORE BLVD · REALIGNED SR 590 BR. · LAKE HAVEN RD · CRU/KEENE RD · VIRGINA ST/ KEENE RD · LYNDHURST ST · BELTREES ST · GREENBRIAR BLVD · SCOTTSDALE/BELTREES · N.HIGHLAND AVE / PATRICIA AVE · BELCHER RD · CR 638 / ENTERPRISE RD · UNION ST · MONTCLAIR RD · SUNSET POINT RD · SUNSET PT/MAIN ST · SR-590 · BAYSHORE BLVD · CR 1 / KEENE RD · FLAGLER DR / SATURN AVE · OLD COACHMAN RD · US 19 / SR 55 SB FRONTAGE RD · US 19 / SR 55 NB FRONTAGE RD · PALMETTO ST · CR 528/DREW STREET · DREW ST · ACCESS RD E · ACCESS RD B · ACCESS RD A · ACCESS RD D · SB FRONTAGE RD TO SR 60 · SR 60 TO DRUID DR · FROM SR 60 WB TO CR 611 NB · FROM CR 611 NB TO SR 60 EB · SR-60 · CLEVELAND ST · DRUID ROAD · SEVILLE BLVD · SKYHARBOR DR · HERCULES AVE · LAKEVIEW RD. · HARN BLVD. · VIRGINIA AVE · NURSERY RD · BELLEAIR RD · HIGHLAND AVE · ALT KEENE RD / MCMULLEN RD / LAKE AVE · KEENE RD/CR 1 · SR-55/US-19 · HAINES BAYSHORE RD · County of Pinel

Gravity Main BRE Result

High Priority Immediate	High Priority Program Rehab	Priority Program Rehab	Frequent Condition Evaluation	Regular Monitoring	Sub Total
228	313	52,249	371,378	192,293	616,461

Gravity Main Consequence of Failure

Gravity Main Condition		Severe 5	Significant 4	Moderate 3	Low to Moderate 2	Low 1	Sub Total
Unserviceable	5	228	313	7,307	11,758	773	20,379
Renewal Req.	4	0	8,277	23,532	24,087	113	56,010
Main. Req.	3	602	13,262	110,028	220,237	6,865	350,994
Minor Defects	2	0	3,650	28,289	45,393	406	77,738
Very Good	1	0	9,709	28,992	71,459	1,180	111,340
	Sub Total	830	35,211	198,148	372,935	9,338	616,461

Source: City of Clearwater Utilities Data

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\ClearwaterFigures_Test.aprx_FIGURE 7-3[betty.morris 5/21/2021]

TETRA TECH

0 N 3,000 Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

NORTHEAST WRF BASIN
GRAVITY PIPING BRE RESULTS

FIGURE 7-3

7.3 LIFT STATIONS

7.3.1 Inventory

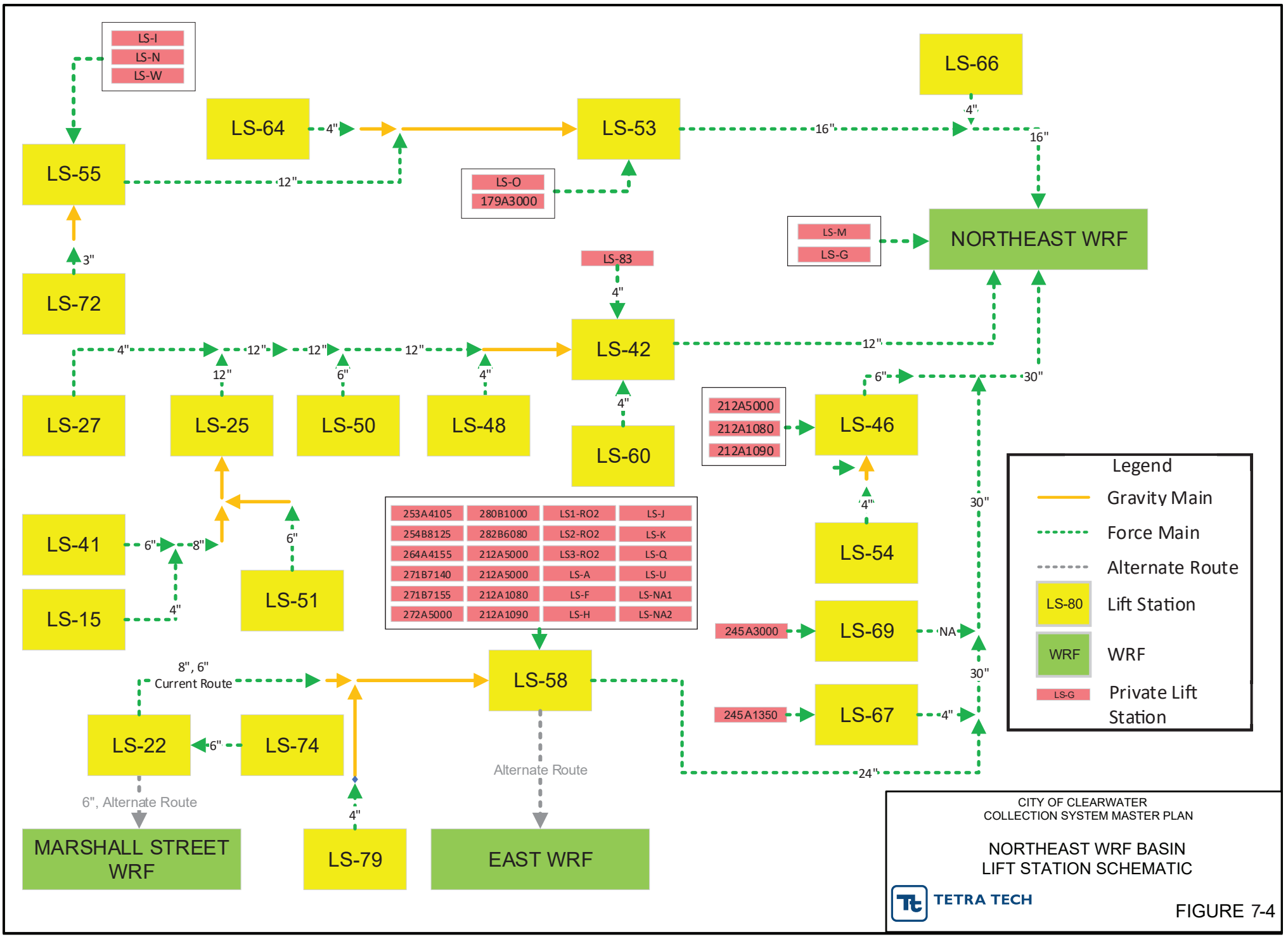
There are 22 City owned lift stations in the Northeast WRF Basin. **Figure 7-4** presents a lift station schematic and **Table 7-3** provides a summary of the lift stations. There are also 30 private lift stations that pump to the collection system.

Many lift stations pump to one of the three master stations located near McMullen-Booth Road. The three master stations are:

- LS-42: Serves the middle of the basin and receives flow from 8 lift stations in addition to its tributary gravity area.
- LS-53: Serves the north of the basin and receives flow from 3 lift stations in addition to its tributary gravity area.
- LS-58: Serves the south of the basin and receives flow from 3 lift stations in addition to its tributary gravity area.

Other major lift stations in the basin include:

- LS-22: Located in the Marshall Street basin but in normal operation pumps to the Northeast WRF.
- LS-25: Receives flow from LS-15, LS-41, and LS-51.
- LS-55: Receives flow from LS-72.



CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

NORTHEAST WRF BASIN
LIFT STATION SCHEMATIC

TETRA TECH

FIGURE 7-4

Table 7-3. Northeast WRF Basin Lift Stations

Lift Station	Approximate Address	No. of Pumps	Wet Well Size (feet)	Wet Well Depth (feet)	Pump Best Efficiency Point[1]		Measured Pump Drawdown (gpm) P1/P2/P3[2]	Measured Pump Discharge Pressure (feet) P1/P2/P3[3]
					Flow (gpm)	TDH (feet)		
15	2385 Hazelwood Dr. in Countryside	2	6 (dia.)	16.4	Not Available(1)	Not Available(1)	188/145/X	-
22	550 Saturn Ave. N. (@ Airport Rd.)	2	10 (dia.)	18.8	1075/1075	97.5/89	992/796/X	-
25	2495 Countryside Blvd.	2	10 (dia.)	16.6	1300	56	862/1038/X	46/58
27	2605 Enterprise Rd.	2	6 (dia.)	16.6	Not Available(1)	Not Available(1)	94/144/X	-
41	2501 Laurel Wood	2	6 (dia.)	20	550	47	139/139/X	60/58
42	2991 McMullen Booth Rd. N.	3	17 x 10	25	2000	50	1695/1089/1975	-
46	2022 McMullen Booth Rd. (@ Eastland Blvd.)	2	8 (dia.)	24	800/850	49/63	1061/1036/X	18/23
48	2619 Windingwood Dr.	2	6 (dia.)	14	460/620	49/36	262/326/X	-
50	2535 Countryside Blvd.	2	8 (dia.)	15	460/620	50/36	338/326/X	32/37
51	25960 US 19	2	6 (dia.)	20	Not Available(1)	Not Available(1)	501/381/X	-
53	3440 McMullen Booth Rd.	3	12 x 10	20.3	1100	89	1107/1167/X	-
54	2304 McMullen Booth Rd.	2	6 (dia.)	13	320/400	26.9/26	78/56/X	-
55	29231 US 19 N.	2	12 (dia.)	22.7	1600	79	1302/124/X 6	-
58	1308 McMullen Booth Rd.	3	12 (dia.)	25.7	3200	127.5	1423/1398/1579	25/25/25
60	2851 McMullen Booth Rd.	2	6 (dia.)	8	Not Available(1)	Not Available(1)	226/X/X	-
64	3356 Lakeshore Ln.	2	6 (dia.)	20.4	Not Available(1)	Not Available(1)	197/141/X	-

Table 7-3. Northeast WRF Basin Lift Stations (Continued)

Lift Station	Approximate Address	No. of Pumps	Wet Well Size (feet)	Wet Well Depth (feet)	Pump Best Efficiency Point[1]		Measured Pump Drawdown (gpm) P1/P2/P3[2]	Measured Pump Discharge Pressure (feet) P1/P2/P3[3]
					Flow (gpm)	TDH (feet)		
66	3242 McMullen Booth Rd.	2	6 (dia.)	19.8	580	59	524/390/X	-
67	2110 Landmark Dr.	2	6 (dia.)	13.5	Not Available(1)	Not Available(1)	211/218/X	-
69	2225 McMullen Booth Rd.	2	8 (dia.)	8.8	400	34	148/148/X	-
72	714 Saturn Ave. (Sid Lickton Field)	2	4 (dia.)	11.8	Not Available(1)	Not Available(1)	88/88/X	-
74	1811 Airport Dr.	2	6 (dia.)	19.7	550/600	47/63	656/712/X	42/35
79	1005 Old Coachman Rd. (Trans Station)	2	2 (dia.)	6	Not Available(1)	Not Available(1)	12/X/X	-

Notes:

1. Pump efficiency points are not available if pump curves were not received or requested.
2. Drawdown testing was not available for all lift stations because of accessibility issues, safety concerns, or corroded/missing guide rails. An X indicates no pump or untested pump.
3. Pump discharge pressure was measured via pressure gauge, if available. A majority of the lift stations did not have a pressure gauge, and if they did, only one pressure gauge was typically functioning.
4. Lift stations highlighted in orange include pumps with single capacities greater than 1,000 gpm.

7.3.2 Condition

Table 7-4 presents a summary of the lift station condition based on field inspection conducted by Tetra Tech including a composite condition score and a score of the most severe condition. The lift station components that most frequently scored in poor condition included corroded control panels, discharge risers, equipment racks and pressure gauges. **Figure 7-5** presents a summary of the composite condition scores with the force mains.

Lift stations LS-60 and LS-79 both have composite scores requiring renewal and rehabilitation mostly due to the condition of the control panel and electrical components.

Of the major lift stations, LS-53 had major wet well corrosion, corroded discharge valves, and a hole was observed in the casing of one of the pumps. LS-58 has heavily corroded discharge risers. However, both have a composite condition score of less than three.

7.3.3 Business Risk Evaluation

Figure 7-6 shows the results of the BRE using the composite condition scores. Both LS-60 and LS-79 are identified as priority-program rehab stations requiring rehabilitation. Lift station 60 is currently being replaced. Most of the remaining stations are identified as requiring frequent condition evaluation. Despite the relatively low scores in the BRE, individual components of several lift stations were identified as unserviceable and should also be prioritized.

Table 7-4. Northeast WRF Basin Lift Station Results and Scores

No.	Composite Condition Score	Most Severe Score	Most Severe Condition Component	Comments
60	4.18	5	Equipment Mounting Rack, Control Panel	Equipment mounting rack, control panel need replacement. Circuit breakers, conduit, and duplex receptacle also need repair/replacement. Wet well discharge risers corroded.
79	3.80	5	Service Conduit, Control Panel	Repair/replace conduit, control panel, alarm light, and equipment mounting rack.
51	3.39	5	Pressure Gauge, Equipment Mounting Rack	Replace pressure gauge and equipment mounting rack. No seal for level transducer conduit, surface corrosion on main switch.
54	3.29	5	Pressure Gauge, Equipment Mounting Rack	Surface corrosion on main switch.
64	3.07	5	Pressure Gauge, Duplex Receptacle, Generator receptacle	Repair/replace pressure gauge, duplex & generator receptacle, circuit breakers, and alarm light. Concrete corrosion, cracking, and spalling in wet well.
67	2.94	5	Pressure Gauge, Surge Suppressor	
53	2.93	5	Submersible Pumps	Concrete corrosion in wet well, interior, coating needs replacement. Hole in side of pump. Plug valves rusted. Alarm light not visible from outside station.
66	2.88	5	Pressure Gauge	Check valve swing arm broken. Control panel, circuit breakers, surge suppressor, and duplex receptacle need repair/replacement.
58	2.69	4	Wet Well Discharge Risers	Wet well needs cleaning. Discharge risers corroded.
42	2.50	5	Submersible Pumps	Hole in pump.
15	2.45	5	Pressure Gauge	Wet well needs cleaning.
22	2.45	3	Structure, Lining/Coating, Level Sensor, Control Floats, Access Hatch, Wet Well Influent Pipe, Submersible Pumps, Valve Vault, Surge Suppressor, Service conduit, Alarm light, Duplex Receptacle	Slight surface corrosion on seal.

Table 7-4. Northeast WRF Basin Lift Station Results and Scores (Continued)

No.	Composite Condition Score	Most Severe Score	Most Severe Condition Component	Comments
74	2.38	3	Structure, Lining/Coating, Level Sensor, Vent, Control Floats, Access Hatch, Wet Well, Influent Pipe, Submersible Pumps, Pressure Gauge, Surge Suppressor, Service conduit	Wet well needs cleaning. Liner is old and discolored, but intact.
41	2.36	4	Lining/Coating	Wet well structure spalling and cracked. Liner bulging in multiple areas.
46	2.33	3	Level Sensor, Vent, Control Floats, Access Hatch, Wet Well, Influent Pipe, Equipment Mounting Rack, Surge Suppressor, Service conduit, Alarm light, Circuit Breakers	Wet well influent pipe, mounting rack, conduit, require maintenance.
27	2.31	4	Vent	Vent is corroded.
55	2.20	5	Pressure Gauge	Wet well needs cleaning. Alarm light not visible from outside station.
48	2.17	5	Pressure Gauge	
50	2.17	3	Wet Well Influent Pipe, Guide Rails Pump, Surge Suppressor, Control Panel	Wet well influent pipe, guide rails, surge suppressor, and control panel require maintenance.
25	2.06	4	Wet Well Discharge Risers	Discharge risers corroded.
69	1.87	3	Wet Well Discharge Risers, Submersible Pumps, Check Valves	Check valves rusted.
72	1.76	3	Circuit Breakers	

Legend

- Northeast WRF Basin
- Other WRF Basin Areas
- WRF Location
- Other Gravity Main

Lift Station Condition

- 4
- 3
- 2
- Private Lift Station
- Other City Lift Stations

Air Release Valves Condition

- 4
- 3
- 2
- 1
- NA

Force Main Condition

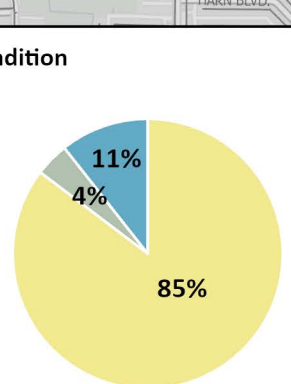
- 3
- 2
- 1
- Other WRF Force Main

Northeast WRF

East WRF

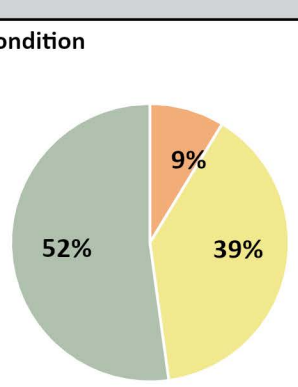
Force Main Condition

Unserviceable	5	0	0%
Renewal Req.	4	0	0%
Main. Req.	3	61,185	85%
Minor Defects	2	2,905	4%
Very Good	1	7,618	11%
Sub Total		71,708	100%



Lift Station Condition

Unserviceable	5	0	0%
Renewal Req.	4	2	9%
Main. Req.	3	9	39%
Minor Defects	2	12	52%
Very Good	1	0	0%
Sub Total		23	100%



Source: City of Clearwater Utilities Data

TETRA TECH

0 3,000 Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

NORTHEAST WRF BASIN
LIFT STATION AND FORCE MAIN CONDITION

FIGURE 7-5

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\LS_Figures\LS_Figures.aprx|FIGURE 7-5|betty.morris 3/10/2021

Legend

- Northeast WRF Basin
- Other WRF Basin Areas
- WRF Location
- Other Gravity Main

Lift Station BRE Result

- 3
- 2
- 1
- Private Lift Station
- Other City Lift Stations

Force Main BRE Result

- 3
- 2
- 1
- Other WRF Force Main

Force Main BRE Result

High Priority Immediate	High Priority Program Rehab	Priority Program Rehab	Frequent Condition Evaluation	Regular Monitoring	Sub Total
0	0	4,041	57,145	10,523	71,708

Lift Station BRE Result

High Priority Immediate	High Priority Program Rehab	Priority Program Rehab	Frequent Condition Evaluation	Regular Monitoring	Sub Total
0	0	2	9	12	23

Force Main Criticality

Force Main Condition		Severe 5	Significant 4	Moderate 3	Low to Moderate 2	Low 1	Sub Total
Unserviceable	5	0	0	0	0	0	0
Renewal Req.	4	0	0	0	0	0	0
Main. Req.	3	4,041	25,539	26,510	5,096	0	61,185
Minor Defects	2	0	0	2,494	411	0	2,905
Very Good	1	0	34	4,894	2,690	0	7,618
	Sub Total	4,041	25,572	33,897	8,198	0	71,708

Lift Station Criticality

Lift Station Condition		Severe 5	Significant 4	Moderate 3	Low to Moderate 2	Low 1	Sub Total
Unserviceable	5	0	0	0	0	0	0
Renewal Req.	4	0	1	1	0	0	2
Main. Req.	3	0	0	8	1	0	9
Minor Defects	2	0	0	3	9	0	12
Very Good	1	0	0	0	0	0	0
	Sub Total	0	1	12	10	0	23

Source: City of Clearwater Utilities Data

TETRA TECH

0 3,000 Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

NORTHEAST WRF BASIN
BRE LIFT STATION AND FORCE MAIN RESULTS

FIGURE 7-6

P:\IER\41125\200-41125-18003\GIS\Maps\ReportFigures\ClearwaterFigures\LS_Figures\LS_Figures.aprx|FIGURE 7-6|betty.morris 3/10/2021

7.4 FORCE MAINS

7.4.1 Inventory

There is approximately 72,000 feet of force mains in the Northeast WRF basin ranging in size from 2 to 30-inches in diameter. There is little information on the force main material with 62% of the total length unclassified. PVC and ductile iron make up most of the remaining length. **Tables 7-5** and **7-6** present the breakdown of sizes and materials for the Northeast WRF Basin. Much of the larger diameter force main runs along McMullen-Booth Road transferring wastewater from LS-58 to the Northeast WRF. **Appendix I** presents a description of the force main segments.

Table 7-5. Northeast WRF Basin Force Main Diameter Summary

Diameter (in)	Length (ft)	Percentage
3-inch	507	0.71%
4-inch	13,742	19.16%
6-inch	8,540	11.91%
8-inch	4,262	5.94%
12-inch	16,445	22.93%
16-inch	7,169	10.00%
24-inch	7,543	10.52%
30-inch	13,352	18.62%
Unknown	148	0.21%
Total	**71,708**	**100%**

Table 7-6. Northeast WRF Basin Force Main Material Summary

Material	Length (ft)	Percentage
Polyvinyl Chloride	14,503	20.22%
Ductile Iron Pipe	2,679	3.74%
Cast Iron Pipe	8,129	11.34%
Polyethylene	1,936	2.70%
Unknown	44,461	62.00%
Total	**71,708**	**100%**

7.4.2 Condition Assessment

The condition of the force mains was determined from available material and age information. **Figure 7-5** provides a summary of the condition scores. The majority of the force mains are identified as condition 3 with none of the mains scoring 4 or 5.

7.4.3 Business Risk Analysis

Figure 7-6 presents the recommended actions for the force mains when accounting for criticality. Approximately 4,000 feet of the 30-inch force main feeding the Northeast WRF from the south is the only force main identified as a priority-program rehab project. The majority of the force mains in the basin require frequent condition evaluation.

7.4.4 Air Release Valves

A total of 14 ARVs were identified in the Northeast WRF Basin through either GIS or other operating records. Of the total 10 were located and inspected. The condition of the ARVs range from excellent to poor. In many cases the testing could not be completed due to stuck isolation valves, even for ARVs in otherwise good condition. None of the ARVs inspected were leaking.

Table 7-7. Northeast WRF ARV Condition

ARV ID	In GIS	Vault/ Above Ground	Test Performed	Composite Score	Most Severe Score	Comments
178A4135	Yes	Vault	No	4.0	5	Manhole was too small to access. Severe rust.
221B6065	Yes	Vault	Yes	3.0	3	Plug would not turn.
232A3105	Yes	Vault	No	3.0	3	Isolation valve would not close. Could not test.
212A4020	Yes	Vault	No	2.5	3	Two ARVs. Could not close isolation valve for either ARV to complete test. Water in vault. Same condition for both ARVs.
265A4005	Yes	Vault	Yes	2.3	3	Lots of water in vault. 90 bend to ARV is loose. ARV rocks easily side to side, pivoting up on the 90.
223A2070	Yes	Vault	No	2.0	3	Isolation valve would not close. Could not test.
3000 McMullen Booth	No	Vault	Yes	2.0	3	Isolation Valve already closed, exercised plug valve to confirm.
188B5601	Yes	Vault	No	1.5	3	Vent would not open. Could not test.
2571 Countryside	No	Above Ground	Yes	1.0	1	
274A1706	Yes	Vault	Yes	1.0	1	
232A3085	Yes	N/A	N/A	N/A	N/A	ARV not found.
256A2030	Yes	N/A	N/A	N/A	N/A	ARV not found.
223A1040	Yes	N/A	N/A	N/A	N/A	ARV not found.
291A1110	Yes	N/A	N/A	N/A	N/A	ARV not found.

7.5 HYDRAULIC MODEL RESULTS

The capacity analysis completed on the calibrated model was used to identify capital improvement projects at gravity mains, force mains and lift stations for each wastewater treatment plant basin to meet the selected LOS. **Figure 7-7** shows the results of all projected surcharging and flooding locations during the 25-year, 24-hour design storm at the Northeast WRF Basin. **Figure 7-8** shows all force main locations where pressures are projected to be higher than 50 pounds per square inch (psi) and any force main stretch where velocities are projected to be higher than 8 feet per second (fps). Refer to Section 4.2.3 for discussion of specific capacity issues within the Northeast WRF Basin.

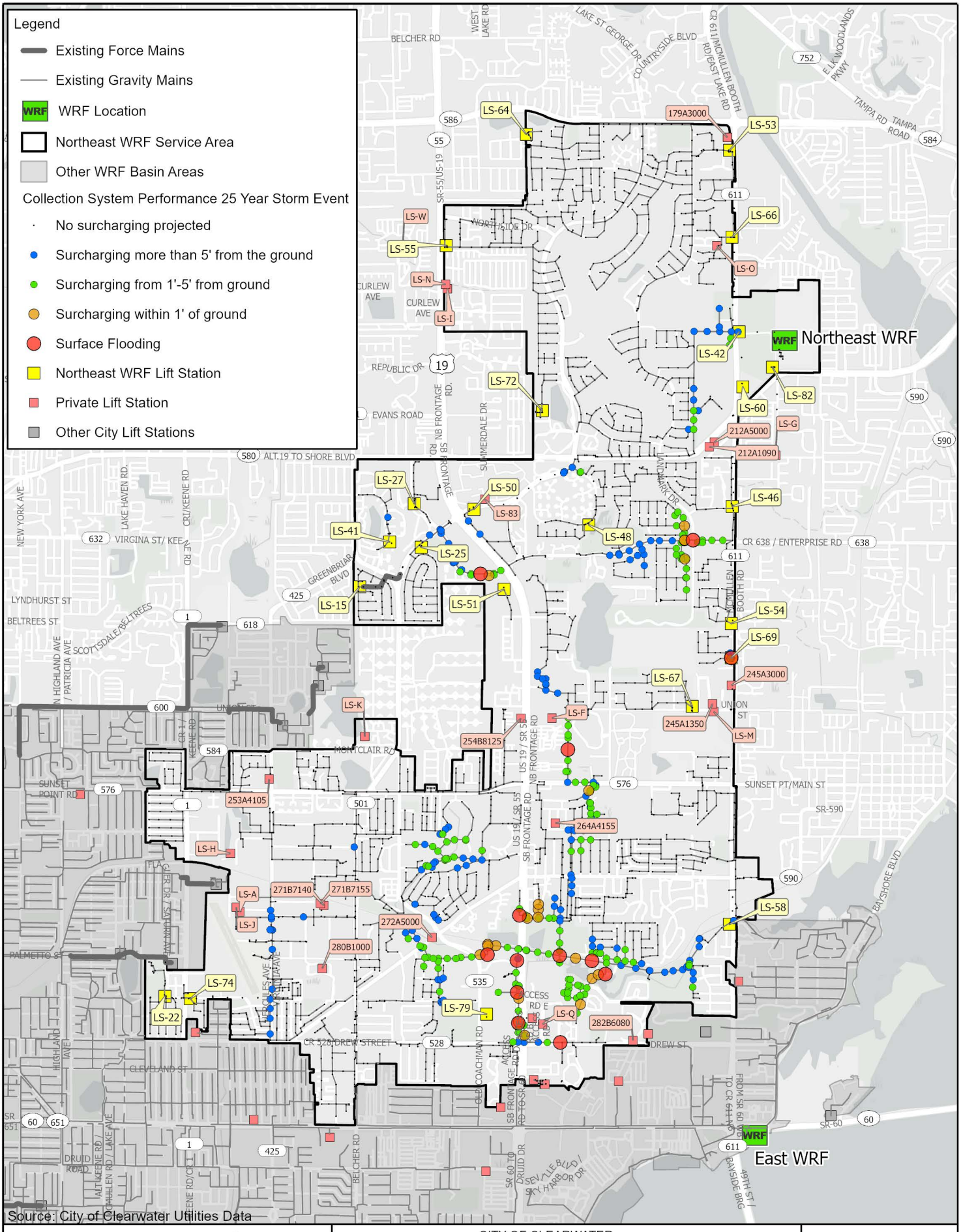
Within the Northeast WRF Basin, twenty (20) of the twenty-one (21) public lift stations were included in the model. The one lift station not included in the model, LS-60, is small and serves a police station. The flow from this lift station area is accounted for in the model. **Table 7-8** shows a summary of the lifts station in the Northeast WRF basin with information about how each lift station was modeled and results extracted from the model during the 25-year, 24-hour design storm event.

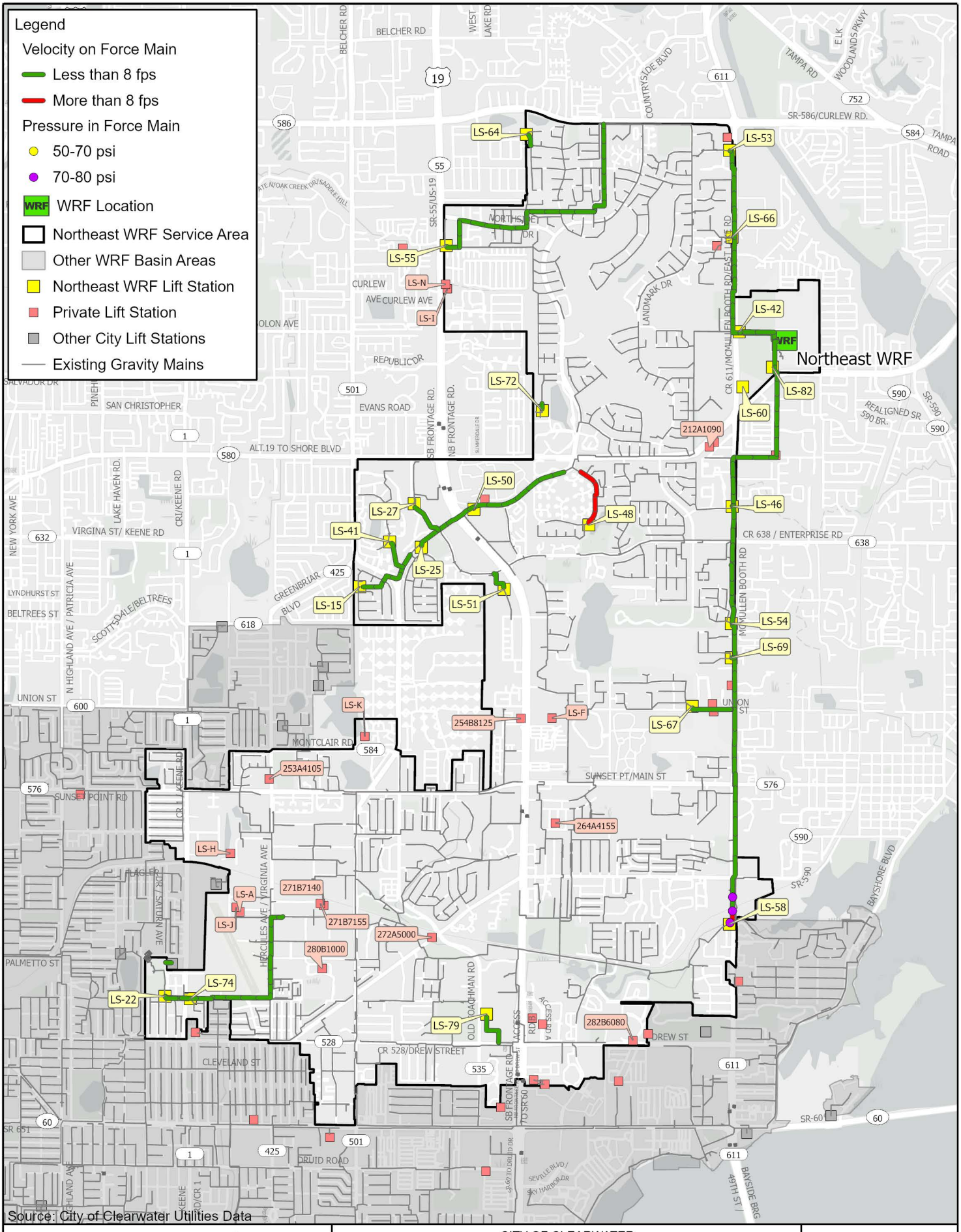
Table 7-8. Northeast LS Model Results During 25-Year, 24-Hour

Lift Station	Modeling Method	Peak Flow, gpm[1]	Comments
15	Pump Curves	220	Sufficient capacity, no flooding predicted.
22	Pump Curves	310	Sufficient capacity, no flooding predicted.
25	Pump Curves	1,740	Sufficient capacity, no flooding predicted.
27	Constant Flow Rate	150	Sufficient capacity, no flooding predicted. No pump curves available, recommend obtaining pump curves.
41	Pump Curves	590	Sufficient capacity, no flooding predicted.
42	Pump Curves	5,100	Insufficient capacity, flooding predicted.
46	Pump Curves	1,410	Sufficient capacity, no flooding predicted.
48	Pump Curves	390	Sufficient capacity, no flooding predicted.
50	Pump Curves	430	Sufficient capacity, no flooding predicted.
51	Constant Flow Rate	400	Sufficient capacity, no flooding predicted. No pump curves available, recommend obtaining pump curves.
53	Pump Curves	1,070	Sufficient capacity, no flooding predicted.
54	Pump Curves	90	Sufficient capacity, no flooding predicted.
55	Pump Curves	490	Sufficient capacity, no flooding predicted.
58	Pump Curves	26,280	Sufficient capacity, flooding predicted due to a combination of gravity main and pump station capacity limitations. Flooding is eliminated with gravity main improvements, however the existing lift station capacity leads surcharging upstream of the station.
60	Not Modeled	-	Small lift station, not included in the model.
64	Constant Flow Rate	10	Sufficient capacity, no flooding predicted. No pump curves available, recommend obtaining pump curves.
66	Pump Curve & Constant Flow Rate	80	Sufficient capacity, no flooding predicted. One pump curve not available, recommend obtaining pump curves.
67	Pump Curve & Constant Flow Rate	300	Sufficient capacity, no flooding predicted. One pump curve not available, recommend obtaining pump curves.
69	Pump Curves	140	Insufficient capacity, flooding predicted.
72	Constant Flow Rate	20	Sufficient capacity, no flooding predicted. No pump curves available, recommend obtaining pump curves.
74	Pump Curves	110	Sufficient capacity, no flooding predicted.
79	Constant Flow Rate	70	Sufficient capacity, no flooding predicted. No pump curves available, recommend obtaining pump curves.

Notes:

1. Peak flow into the lift station for the 25-year, 24-hour design storm event under 2050 growth conditions.
2. Lift stations in red represent capacity issues.


Legend
Existing Force Mains
Existing Gravity Mains
WRF WRF Location
Northeast WRF Service Area
Other WRF Basin Areas
Collection System Performance 25 Year Storm Event
No surcharging projected
Surcharging more than 5' from the ground
Surcharging from 1'-5' from ground
Surcharging within 1' of ground
Surface Flooding
Northeast WRF Lift Station
Private Lift Station
Other City Lift Stations
Northeast WRF
East WRF
LS-64
179A3000
LS-53
LS-66
LS-O
LS-W
LS-55
LS-N
LS-I
LS-42
LS-72
LS-82
LS-60
LS-G
212A5000
212A1090
LS-27
LS-50
LS-83
LS-46
LS-41
LS-48
LS-25
LS-15
LS-51
LS-54
LS-69
245A3000
LS-67
245A1350
LS-M
LS-K
LS-F
254B8125
264A4155
253A4105
LS-H
LS-A
271B7140
271B7155
LS-J
272A5000
280B1000
LS-58
LS-74
LS-22
LS-79
LS-Q
282B6080
BELCHER RD
SUNSET PT/MAIN ST
DREW ST
CR 638 / ENTERPRISE RD
SR-590
SR-60
BAYSHORE BLVD
ALT.19 TO SHORE BLVD
EVANS ROAD
REPUBLIC DR
CURLEW AVE
GREENBRIAR BLVD
MONTCLAIR RD
SUNSET POINT RD
PALMETTO ST
CLEVELAND ST
DRUID ROAD
LYNDHURST ST
BELTREES ST
SCOTTSDALE/BELTREES
VIRGINIA ST/ KEENE RD
CR 328/DREW STREET
US 19 / SR 55 NB FRONTAGE RD
US 19 / SR 55 SB FRONTAGE RD
SUMMERDALE DR
OLD COACHMAN RD
TAMPA RD TAMPA ROAD
ELK WOODLANDS PKWY
LAKE ST GEORGE DR
COUNTRYSIDE BLVD
CR 611/MCMULLEN BOOTH RD/EAST LAKE RD
WEST LAKE RD
NEW YORK AVE
LAKE HAVEN RD.
CR1/KEENE RD
N HIGHLAND AVE / PATRICIA AVE
SR-55/US-19
Source: City of Clearwater Utilities Data
0
4,000
Feet
N
TETRA TECH
CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
Northeast WRF Surcharging Locations
During 25-Year, 24-Hour Design Storm
FIGURE 7-7
P:\IER\41125\200-41125-18003\GIS\Maps\CIP_Figures_20210307\p20\CIP_Figures.aprx FIGURE 7-7 [betty.morris 4/8/2021]



P:\ER\41125\200-41125-18003\GIS\Maps\CIP_Figures_20210307\p20\CIP_Figures.aprx FIGURE 7-8 [betty.morris 4/8/2021]

TETRA TECH

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

Northeast WRF Velocities and Pressures
in Force Mains During 25-Year, 24-Hour Design Storm

FIGURE 7-8

7.6 RECOMMENDATIONS

Recommendations for the Northeast Basin include:

1. Capacity related capital projects determined by the hydraulic model required to meet the designated LOS.
2. R&R projects determined by the BRE analysis.
3. Other recommendations.

7.6.1 Capacity Related Capital Improvement Projects

Eight capital improvement projects were identified in the Northeast WRF Basin, one of which is a potential project.

7.6.1.1 NRE-01 and NRE-02

For Projects NRE-01 and NRE-02, two alternatives were identified due to possible re-routing of flows.

NRE-01 AND NRE-02 - ALTERNATIVE A

NRE-01-A – LS-58 Service Area: Trunk Main leading to LS-58

Approximately 7,700-feet of the trunk main leading to LS-58 from the west is undersized and projected to cause flooding during the 25-year, 24-hour design storm event along the branch. The trunk main needs to be significantly upsized to convey a projected peak flow of 21.7 MGD.

Along this stretch of gravity main, 3,262-feet (51-percent) of pipes had a priority BRE result. There are no high priority BRE assets. Based on the condition assessment, a significant length of the gravity main is due to be replaced and so a parallel, relief gravity main alternative was not identified.

Figure 7-9 shows the recommended improvements for both NRE-01-A and NRE-02-A. From downstream to upstream, the gravity main replacements are as follows:

- From LS-58 to MH 282B2074 – upsize 2,400-feet of existing 36-in to a 60-inch sewer.
- From MH 282B2074 to MH 282A3010 – upsize 2,700-feet of existing 30-inch to a 54-inch sewer.
- From MH 282A3010 to MH 273A2070 – upsize 2,600-feet of existing 30-inch to a 48-inch sewer.

NRE-02-A - LS-58 Service Area: Local Capacity Issues at Sunset Point Road, Sewer Replacement

Approximately 9,800-feet of the existing 10- to 18-inch main downstream of Sunset Point Road lacks the capacity to convey the peak flows projected for the 25-year, 24-hour design storm event and flooding is predicted at South Drive and Sunset Point Road.

Along this stretch of gravity main, 1,233-feet (18-percent) of pipes had a priority BRE result. There are no high priority BRE assets. Based on the condition assessment, the gravity main is due to be replaced and a relief gravity main alternative was not developed.

Figure 7-9 shows the recommended improvements for both NRE-01-A and NRE-02-A. From downstream to upstream, the gravity main replacements are as follows:

- From MH 273A2080 to MH 273A2040 – upsize 1,100-feet of existing 18-inch to a 30-inch sewer.
- From MH 273A2040 to MH 255A4010 – upsize 6,900-feet of existing 10- to 15-inch to a 24-inch sewer.
- From MH 255A4010 to MH 255A3010 – upsize 1,800-feet of existing 12-inch to an 18-inch sewer.

Implementing Alternative A for NRE-01 and NRE-02 would remove all SSO locations in these areas, therefore increasing the peak flow going to LS-58. LS-58 has capacity to convey the increased peak flow under an elevated wet well condition, causing surcharging in the gravity main along McMullen Booth Road. The predicted surcharging would remain more than 5-feet from the ground surface. The diversion weir at McMullen Booth and Alligator Creek would be overtopped and approximately 7.5 MGD would be diverted to the East WRF. This condition would still meet the designated LOS and no improvement is recommended for increasing the capacity at LS-58. If this alternative is chosen (Alternative A for NRE-01 and NRE-02), then the recommended **EAS-04** would be necessary in the East WRF Basin to convey the peak flows along Bayshore Boulevard.

NRE-01 AND NRE-02 - ALTERNATIVE B

NRE-01-B – LS-58 Service Area: Trunk Main leading to LS-58

The primary difference between this alternative (NRE-01-B) and alternative NRE-01-A is that 3.2 MGD from a branch discharging at the trunk main are instead bypassed and routed directly to the force main at LS-58 on McMullen Booth Road (See NRE-02-B). Since a portion of flows were taken out from the trunk main, the diameter of the replacement main can be reduced in some sections along the proposed gravity main. In this alternative, approximately 7,700-feet of the trunk main leading to LS-58 still need to be upsized due to the trunk main being undersized.

Along this stretch of gravity main, 3,262-feet (51-percent) of pipes had a priority BRE result. There are no high priority BRE assets.

Figure 7-9 shows the recommended improvements for both NRE-01-B and NRE-02-B. From downstream to upstream, the gravity main replacements are as follows:

- From LS-58 to MH 282B2074 – Upsize 2,400-feet of existing 30- and 36-inch to a 54-inch main.
- From MH 282B2074 to MH 273A2080 – Upsize 4,200-feet of existing 30-inch to a 48-inch main.
- From MH 273A2080 to MH 273A2060 – Upsize 1,100-feet of existing 30-inch to a 42-inch main.

NRE-02-B - LS-58 Service Area: Local Capacity Issues at Sunset Point Road, New Lift Station

Instead of upsizing 8,750-feet of gravity main, this project proposes a new pump station at Sunset Point Road that would convey 3.2 MGD directly to the LS-58's force main on McMullen Booth Road. This would reduce the amount of gravity main replacement needed from Sunset Point Road to LS-58.

Along this stretch of gravity main, there are no priority or high priority BRE rated assets.

Figure 7-9 shows the recommended improvements for both NRE-01-B and NRE-02-B. From downstream to upstream, the gravity main replacements are as follows:

- New Lift Station – The proposed lift station would be located at Sunset Point Road between Harvey Crawford Boulevard and Soule Road. The lift station would need a firm capacity of 2,200 gpm (3.2 MGD).
- Force Main – Add approximately 4,500-feet of 10-inch forcemain along Sunset Point Road, going east from west of Soule Road to N. McMullen Booth Road, where it would tie in the existing 24-inch forcemain for LS-58.
- From the new lift station to MH 255A4010 – Upsize 1,300-feet of existing 14-inch sewer along Sunset Point Road to a 24-inch sewer.
- From MH 255A4010 to MH 255A3010 – upsize 1,800-feet of existing 12-inch to an 18-inch sewer (Note: this main is not along a ROW, it runs along wooded areas behind residential and commercial units)

Implementing Alternative B for NRE-01 and NRE-02 would remove all SSO locations in these areas, therefore increasing the peak flow going to LS-58. LS-58 has capacity to convey the increased peak flow with an elevated wet well level, causing surcharging in the gravity main along McMullen Booth Road. The predicted surcharging

would remain more than 5-feet from the ground surface. The diversion weir at McMullen Booth and Alligator Creek near lift station 58 would be overtopped and approximately 2.7 MGD would be diverted to the East WRF. This condition would still meet the designated LOS and no improvement is recommended for increasing the capacity at LS-58. If this alternative is chosen (Alternative B for NRE-01 and NRE-02), then the recommended **EAS-04** would not be necessary in the East WRF Basin, due to the diversion of the peak flows through the proposed lift station in NRE-02-B.

NRE-01 AND NRE-02 - ALTERNATIVE ANALYSIS

The alternative selection for NRE-01 and NRE-02 is based on the opinion of probable costs. For a description of the development of the opinion of probable cost refer to section 8.3.1. An important part of the analysis is the inclusion of EAS-04 that is necessary to accommodate the flows that would overtop the weir and McMullen Booth from the Northeast WRF basin if Alternative A is selected. **Table 7-9** below present a summary of the projects and opinions of probable cost for each alternative.

Table 7-9. NRE-01 and NRE-02 Alternative Analysis

Project	Alternative A	Alternative B
NRE-01	$14,205,000	$12,929,000
NRE-02	$7,812,000	$6,195,000
EAS-04	$11,365,000	$ 0
Total	$33,382,000	$19,124,000

The total estimated opinion of probable cost for Alternative A is $33,382,000 and the opinion of probable cost for MAR-01 B is $19,124,000, therefore Alternative B is selected as the alternative.

7.6.1.2 NRE-03 – LS-58 Service Area: Local Capacity Issues at 12-Inch Main West of US-19

Approximately 4,100-feet of gravity main west of US-19 and downstream of LS-79 lack capacity to convey the projected peak flows from the 25-year, 24-hour design storm, resulting in predicted SSOs at three adjacent manholes.

Along this stretch of gravity main, 1,765-feet (51-percent) of pipes had a priority-program rehab BRE result. There are no high priority-program rehab BRE assets. This means that based on the condition assessment, the gravity main is due to be replaced and a relief gravity sewer alternative was not developed.

Figure 7-9 shows the recommended improvements for NRE-03. From downstream to upstream, the gravity main replacements are as follows:

- From MH 272B8045 to MH 281B8040 – upsize 2,100-feet of existing 12-inch to an 18-inch sewer
- From MH 281B8040 to MH 282A2110 – upsize 2,000-feet of existing 10-inch to a 15-inch sewer

7.6.1.3 NRE-04 - Gravity Main Upstream of LS-46 – Enterprise Road

Approximately 1,600-feet of an existing 8-inch main that runs along Enterprise Road (from McMullen Booth Road to west of Landmark Drive) lacks conveyance capacity during the 25-year, 24-hour storm and is projected to cause an SSO at Enterprise Road.

Along this stretch of gravity main, there are no priority-program rehab or high priority-program rehab BRE rated assets.

Figure 7-9 shows the recommended improvements for NRE-04. From downstream to upstream, the gravity main replacements are as follows:

- From MH 223A2095 to MH 222B8125 – upsize 1,550-feet of existing 8-inch to a 12-inch main along East Enterprise Road from just west of Landmark Drive to McMullen Booth Road.

7.6.1.4 NRE-05 - Gravity Main Upstream of LS-25

Existing 8- to 10-inch gravity main lacks conveyance capacity during the 25-year, 24-hour storm and causes a predicted SSO at Enterprise Road, downstream of LS-51 and upstream of LS-25.

Along this stretch of gravity main, 1,347-feet (41-percent) of pipes had a priority-program rehab BRE result. There are no high priority-program rehab BRE assets.

Figure 7-9 shows the recommended improvements for NRE-05. From downstream to upstream, the gravity main replacements are as follows:

- From MH 232A3005 to MH 232B5050 – upsize 1,900-feet of existing 8- and 10-inch to 12-inch main along Countryside Boulevard from just upstream of LS-25 to Enterprise Boulevard, and along Enterprise Boulevard up to 2478 Enterprise Road
- From MH 232B5050 to MH 232B7090 – upsize 1,400-feet of existing 8-inch to 10-inch main along Enterprise Road from 2478 Enterprise Road.to west of US-19.

7.6.1.5 NRE-06 - LS-69

Flooding is predicted at LS-69 during the 25-year, 24-hour design storm. This lift station is modeled with pump curves as received from the manufacturer. The discharge pressure (26 psi) in the pumps limits the capacity of LS-69. New pumps are required with a higher head condition.

7.6.1.6 NRE-07 – LS-48 Discharge Force Main

The entire 2,000-feet of length of existing 4-inch force main at LS-48 is predicted to have velocities of over 8 fps. This would indicate that the force main is undersized and the force main requires upsizing to meet the LOS.

Figure 7-9 shows the recommended improvements for NRE-07. The improvement would be as follows:

- From LS-48 to MH 222A3050 – Replace approximately 2,000-feet of existing 4-inch force main along Winding Wood Drive with proposed 6-inch force main from LS-48, by Cypress Bend Park, to Foxfire Court.

7.6.1.7 NRE-08 – LS-42 Lift Station and Main Improvements Due to Projected Growth

LS-42 is located at N. McMullen Booth Road, just upstream of the Northeast WRF. This lift station has 3 submersible pumps and is projected to have insufficient flow capacity to convey the peak flow during the 25-year, 24-hour design storm event with 2030 projected growth. In addition, approximately 5,600-feet the gravity main upstream of the lift station lack conveyance capacity and contribute to additional flooding in this area.

Along this stretch of gravity main, 147-feet (3-percent) and 38-feet (1-percent) of pipes had a priority-program rehab and high priority-program rehab BRE result, respectively.

Figure 7-9 shows the recommended improvements for NRE-08. From downstream to upstream, the gravity main replacements are as follows:

- At LS-42 - A combination of wet well and pump improvements need to occur to increase the firm capacity of this lift station to convey a peak flow of 4,500 gpm (6.5 MGD).
- From LS-42 to MH 212A1055 – Upsize 4,000-feet of existing 21- and 24-inch main to 30-inch main.

- From MH 212A1055 to MH 212A2020 – Upsize 600-feet of existing 21-inch main to 24-inch main.
- From MH 212A2020 to MH 211B8115 – Upsize 1,000-feet of existing 18-inch main to 21-inch main.

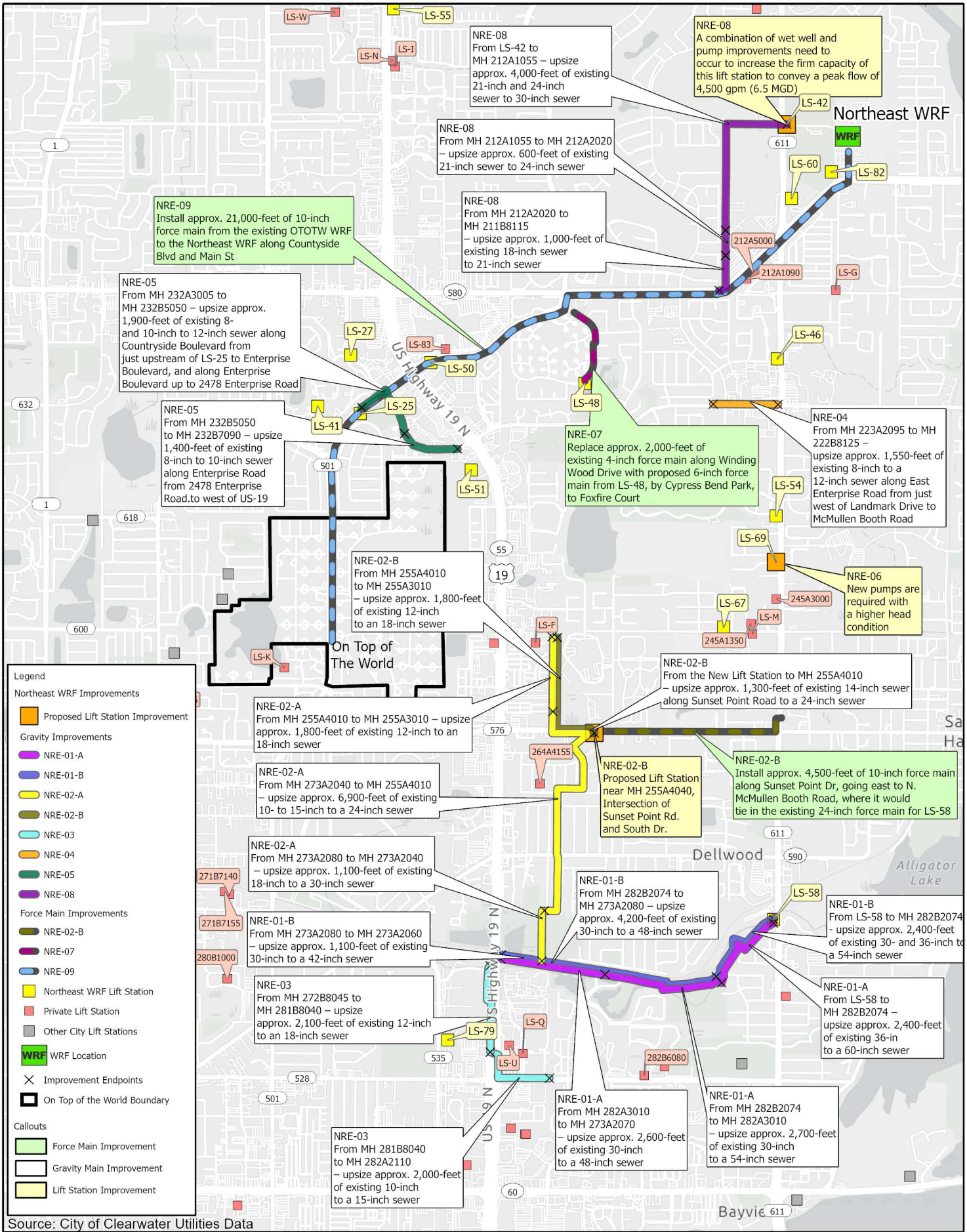
The recommended improvements from this project (NRE-08) should be implemented before projects NRE-05 and NRE-07, which are upstream of LS-42.

7.6.1.8 Potential NRE-09 – Integration of OTOTW WRF Flow

A potential capital improvement project includes the integration of the On Top of the World (OTOTW) WRF (located at 2025 Denmark Street) into the City's collection system. In doing so, the Northeast WRF would need to account for an additional peak flow hour of 1.8 MGD (0.60 MGD AADF). The decommissioning of the OTOTW WRF and conversion into a pump station would be proposed and handled by the private owners of OTOTW. The installation of 10-inch force main would be required to route the flows to the Northeast WRF.

Figure 7-9 shows the proposed project route for NRE-09. The proposed work would be as follows:

- Install approximately 21,000-feet of 10-inch force main from the existing OTOTW WRF to the Northeast WRF along the proposed route: travel north along N. Belcher Road (HWY 501) to Countryside Boulevard, head northeast along Countryside Boulevard to Main Street, and travel east along Main Street to the Northeast WRF. Given the uncertain timing of this project in relation to other City improvements this project assumes the force main will be dedicated to only OTOTW flow.



Source: City of Clearwater Utilities Data

TETRA TECH

0 3,000 Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

NORTHEAST WRF IMPROVEMENTS

FIGURE 7-9

P:\IER\41125\200-41125-18003\GIS\Maps\CIP_Figures_20210307\p20\CIP_Figures.aprx FIGURE 7-9 [betty.morris 4/8/2021]

7.6.1.9 Summary

Table 7-10, below, includes an overview of the capital improvement projects identified within the Northeast WRF Basin, and the scheduled planning period. The scheduling of the projects by planning period was determined by the following criteria:

- Projects with modeled SSOs at the design storm under current conditions are scheduled for implementation within ten years, by 2030 with priority placed on project that reduce SSOs for storm events less than the design storm.
- Projects that exceed LOS due to growth are scheduled for implementation in the planning period where the growth occurs.
- Projects that occur along routes of known pavement resurfacing are recommended for implementation prior or concurrent with the resurfacing. Specific information regarding the timeframe is provided in the notes for **Table 6-8** for affected projects.
- Projects that rely upon the completion of other projects are discussed in the notes of **Table 6-8.**

Table 7-10. Northeast WRF Basin Capital Improvement Projects

Project	Planning Period	Notes
NRE-01 and NRE 02	To 2030 (Within 5 Years)	Insufficient capacity under existing conditions during the 25-year, 24-hour design storm event. Project requires coordination with EAS-01.
NRE-03	To 2030 (Within 5 Years)	Insufficient capacity under existing conditions during the 25-year, 24-hour design storm event.
NRE-04	To 2030 (6 to 10 Years)	Insufficient capacity under existing conditions during the 25-year, 24-hour design storm event.
NRE-05	To 2030 (6 to 10 Years)	To 2030
NRE-06	To 2030 (6 to 10 Years)	Insufficient capacity under existing conditions during the 25-year, 24-hour design storm event.
NRE-07	To 2030 (6 to 10 Years)	Insufficient capacity under existing conditions during the 25-year, 24-hour design storm event. The City's road resurfacing program is scheduled to occur in 2022 along Winding Wood Dr. NRE-08 to be completed prior to NRE-07.
NRE-08	To 2030 (6 to 10 Years)	Insufficient capacity under 2030 conditions; however, because NRE-05 and NRE-07 are upstream of NRE-08, NRE-08 would have to be completed first.
NRE-09	Discretionary	Project for consideration in the event the OTOW system integrates with the City's system.

7.6.2 Renewal and Replacement

The R&R analysis is not project driven but is rather a risk prioritized program that can be implemented year-to year to systematically improve the system. The BRE results are an indication of priority-program rehab actual scheduling

of the projects are dependent upon budgetary constraints, best practices and institutional capacity. The pipe lengths and manhole counts are summarized in the following subsections. Specific asset identification and location is provided in the GIS shapefiles provided as a supplement to this report as described in **Appendix L**.

7.6.2.1 Gravity Mains

Table 7-11 presents a prioritized summary of R&R actions by length of pipe based upon the decision tree presented in Section 2.6.6.1 for the Marshall Street Basin gravity mains. Approximately 400,000 feet is recommended for CCTV inspection to determine its condition based on PACP data. Short term CCTV priority is given to those pipe segments with an indicated condition score (based on age and material) of 4 or 5. Pipe segments with indicated condition scores of 3 or less are considered for longer term CCTV work.

Of the total basin gravity pipe length of 832,000 feet approximately 94,000 is recommended for R&R. It's important to note that as CCTV is completed, and actual conditions determined for the pipe segments the R&R program should be reprioritized.

Table 7-11. Gravity Mains R&R - Pipe Length

BRE Result	Highest Priority (Immediate)	High Priority-Program Rehab	Priority-Program Rehab	CCTV Inspection	Frequent Condition Evaluation	Regular Monitoring	Total
CCTV Short Term	---	---	---	48,259	---	---	48,259
CCTV Long Term	---	---	---	396,723	---	---	396,723
Replace	---	---	12,918	---	0	0	12,918
Point Repair	---	95	3,640	---	0	0	3,735
Point Repair and Lining	228	---	2,981	---	0	0	3,209
Lining	---	---	1,752	---	0	0	1,752
O&M	---	---	---	---	24,907	124,958	149,865
Total	**228[(1)]**	**95**	**21,291**	**444,982**	**24,907**	**124,958**	**616,461**

Note::

1. Currently being rehabilitated.

7.6.2.2 Manholes

Lacking condition data, a BRE result for manholes is extrapolated from the gravity main BRE result as described in Section 2.6.6.2. As the City implements a manhole inspection program the prioritization and budgeting of the R&R program should be reevaluated. Based on the assumptions presented **Table 7-12** presents the manhole R&R program. High priority and priority manhole IDs are identified in **Appendix K**.

Table 7-12. Manhole R&R - Quantities

Implied BRE Result	Highest Priority (Immediate)	High Priority-Program Rehab	Priority-Program Rehab	Frequent Condition Evaluation	Regular Monitoring	Total
Manhole Replacement	3	3	66	0	0	72
Coating (Min. Deterioration)	---	3	66	0	0	69
Coating (Sign. Deterioration)	---	3	66	0	0	69
Misc. Repair	---	3	66	0	0	69
O&M	---	1	62	1,816	602	2,481
Total	**3**	**13**	**326**	**1,816**	**602**	**2,760**

7.6.2.3 Lift Stations

Prioritization for lift station R&R is based on BRE result and composite condition score as described in Section 2.6.6.3. **Table 7-13** presents the priority list for lift stations composite scores greater than 3.0.

Table 7-13. Lift Station R&R

Lift Station	Approximate Address	BRE Result	Composite Condition Score
60	2851 McMullen Booth Rd.	Priority-program rehab	4.18
79[1]	1005 Old Coachman Rd. (Trans Station)	Priority-program rehab	3.8
51	25960 US 19	Frequent Condition Evaluation	3.39
54	2304 McMullen Booth Rd.	Regular Monitoring	3.29
64	3356 Lakeshore Ln.	Frequent Condition Evaluation	3.07

Note:
1. Rehabilitation underway.

7.6.2.4 Force Mains

Prioritization of force main R&R is based on BRE result as described in Section 2.6.6.4. The force main R&R project identified in **Table 7-14** shows 4,041 feet of 30-inch line with a Priority-program rehab BRE result and a condition score of 3, meaning that only maintenance is required in the near term; therefore this R&R project should be completed within the next 5 years. This force main segment is depicted on **Figure 7-6**.

Table 7-14. Force Main R&R

Force Main Description	BRE Result	Condition Score	Length (ft)	Planning Period
30” Along Rigsby Ln to the Northeast WRF	Priority-program rehab	3	4,041	To 2030 (Within 5 Years)

7.6.3 Future Flow Monitoring & Model Recalibration

This area had the greatest number of meters per acre and is very well calibrated.

Recommend keeping all 4 meters upstream of LS-58. Also recommend including a meter downstream of Sunset Point Road and another upstream of LS-59-W3 to capture flows from LS-22.

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 INTRODUCTION

This section compiles the recommendations from the previous sections into a single capital improvement program consisting of both capital renewal and replacement and capacity related projects to accommodate growth at the adopted level of service during the design year storm. The capital program is broken into a near term planning period ending in 2030 and a long-term planning period ending in 2050.

It's important to note that as the City continues its adoption of asset management techniques to address system needs the capital program will require frequent revision and updating. This is particularly important with respect to manholes and force mains that historically have not received rigorous and systematic condition assessment.

8.2 CMOM PROGRAM

As mentioned previously this Collection System Master Plan is integral to the CMOM program and several of the goals and actions defined as part of the program will have a direct bearing on projects and project prioritization. Specifically, the following proposed CMOM activities will directly affect the CIP.

1. Periodic lift station and air release valve inspection and evaluation.
2. Condition assessment program for collection system force mains.
3. Systematic evaluation of system manholes per NAASCO MACP criteria.

Scheduled R&R activities should be adjusted as actual condition data from these activities is gathered and entered into the City's information management system.

8.3 CAPITAL IMPROVEMENT PROGRAM

8.3.1 Planning Level Opinion of Probable Cost

The opinions of probable costs represent planning-level estimates developed using cost curves, vendor-based estimates, and local and regional cost estimate and schedules of values for similar type work and experience with analogous systems. Therefore, the CIP costs are intended for planning purposes only, as they do not represent design-based engineering estimates. Unit costs developed include the cost of labor and materials, bypass pumping, restoration (asphalt, sod, sidewalks, etc.), reinstatement of laterals, general requirements, and contractor overhead and profit.

All costs include a factor of 15% of the project cost for preliminary design, engineering and permitting. In addition, all cost have a 30% contingency factor to account for the level of project definition, variability in the contracting bid market and other unforeseen costs. All costs presented are expressed in 2020 dollars.

8.3.2 Capacity Related Improvement Program

The capacity related improvement program includes projects that are recommended to meet projected growth through 2050 and meet the established level of service (no SSOs) during the design storm event (25-year, 24 hour). A summary of the projects and their opinion of probable cost is presented in **Table 8-1.**

Table 8-1. Summary of Capacity Related Capital Improvement Projects

Project Number	Project Description	Planning Period	Opinion of Probable Costs
MAR-01	Various improvements to reroute LS 06 flows (see section 5.6.1)	To 2030 (6 to 10 Years)	$5,881,000
MAR-02	Improvements to LS 9 and LS 10. Upsizing existing 6- and 8-inch force main between LS 9, LS 10, and LS 11. Upsize approximately 500 feet of existing 8-inch sewer near LS 10.	To 2030 (6 to 10 Years)	$6,156,000
MAR-03	Upsize approximately 2,800 feet of 8-inch gravity main along Sunset Point Road from LS 01 to Edgewater Drive, and along Edgewater Drive from Sunset Point Road to Commodore Street.	To 2030 (6 to 10 Years)	$1,945,000
MAR-04	Replace LS16 and expand discharge force main to accommodate new development and LS-06 flows from MAR-01. (Opinion of Probable Costs provide by others)	To 2030 (Within 5 Years)	$1,398,000
EAS-01	Improvements to the East WRF influent pump station. Replacement of 150 feet of existing force main.	To 2030 (Within 5 Years)	$1,488,000
EAS-02	Upsize approximately 5,100 feet of 15- to 36-inch gravity main along Gulf to Bay Boulevard.	To 2030 (6 to 10 Years)	$4,308,000
EAS-03	Upsize approximately 2,500 feet of 8-inch gravity main along San Mateo Street and Monterey Avenue.	To 2030 (Within 5 Years)	$1,736,000
NRE-01 and NRE 02	NRE-01: Upsize approximately 7,700 feet of existing 30-inch gravity main. NRE-02: Construct new lift station and install approximately 4,500 feet of 10-inch force main. Upsize approximately 3,100 feet of existing 12- and 14-inch gravity main.	To 2030 (Within 5 Years)	$19,124,000
NRE-03	Upsize approximately 4,100 feet of existing 10- and 12-inch gravity main.	To 2030 (Within 5 Years)	$2,980,000
NRE-04	Upsize approximately 1,550 feet of existing 8-inch gravity main.	To 2030 (6 to 10 Years)	$1,077,000
NRE-05	Upsize approximately 3,300 feet of existing 8-inch and 10-inch gravity main.	To 2030 (6 to 10 Years)	$2,260,000
NRE-06	Install new pumps with a higher head condition at LS 69.	To 2030 (6 to 10 Years)	$44,000
NRE-07	Replace approximately 2,000 feet of existing 4-inch force main.	To 2030 (6 to 10 Years)	$313,000
NRE-08	Improvements to LS 42 to increase capacity. Replacement of approximately 5,600 feet of existing 18- and 21-inch gravity main.	To 2030 (6 to 10 Years)	$10,412,000
NRE-09	Install approximately 21,000 feet of 10-inch force main.	Dependent upon interconnection with OTOW	$11,236,000

8.3.3 Renewal and Replacement Program

8.3.3.1 Gravity Mains

For purposes of scheduling, an R&R goal is set of addressing all gravity mains identified as priority-program rehab or high priority-program rehab within the first ten year planning period (through 2030). It's important to note that the asset condition and R&R costs are based upon the review and analysis of the system within the context of this master plan. Implementation of the R&R program at a project level with specific prioritization, rehab approach and cost estimates will be performed by the City's Engineer of Record for the R&R program. The total footage of priority-program rehab and high priority-program rehab gravity mains is approximately 180,000 feet or 9.2% of the total collection system footage. **Table 8-2** presents the length of pipe to be addressed as well as the estimated R&R opinion of probable cost based on the rehabilitation actions identified in the recommendations of Sections 5, 6 and 7. **Appendix J** presents a breakdown of the opinion of probable cost by rehabilitation action. The opinion of probable cost of annual expenditure systemwide for the gravity main R&R is $10.22 million.

Gravity main R&R for the second ten-year planning period will be heavily influenced by the continued implementation of CCTV throughout the system. For purposes of this Master Plan, it is assumed the average R&R rate for the system beyond 2030 will be 1% annually which equates to an average service life of 100 years for collection system piping. Using the first ten-year opinion of probable cost as a guide, annual expenditures beyond 2030 are estimated at $11.11 million.

Table 8-2. Gravity Main Ten Year (through 2030) Renewal and Replacement Program

BRE Result	Quantity (ft)			Opinion of Probable Cost			
	Highest Priority (Immediate)	High Priority-Program Rehab	Priority-Program Rehab	Highest Priority (Immediate)	High Priority-Program Rehab	Priority-Program Rehab	Annual[1]
Marshall Street	---	313	93,623	---	$83,000	$56,131,000	$5,621,400
East	---	2,747	61,141	---	$1,203,000	$33,370,000	$3,457,300
Northeast	228	95	21,291	$107,000	$33,000	$11,280,000	$1,142,000
Totals	**228[(1)]**	**3,155**	**176,055**	**$107,000**	**$1,319,000**	**$100,781,000**	**$10,220,700**

Notes:

1. Annual opinion of probable cost represents the total R&R cost divided by ten years.
2. Currently being rehabilitated.

8.3.3.2 Manholes

Similar to gravity mains an R&R goal for manhole rehabilitation is set to address all priority-program rehab and high priority-program rehab manholes within the first ten-year planning period (through 2030). **Table 8-3** presents the number of manholes and the estimated opinion of probable cost based on the assumptions discussed in Sections 5, 6 and 7. **Appendix J** presents a breakdown of the opinion of probable cost by rehabilitation action. High priority and priority manhole IDs are identified in **Appendix K**. The opinion of probable cost of annual expenditure systemwide for manhole R&R is $3.66 million.

The manhole conditions that support this program is based on an implied condition using the surrounding gravity lines as an indicator of condition. As the City implements a formalized manhole condition assessment program, these quantities and costs should be revised and sequenced with the gravity main R&R work where possible. This

resequencing will greatly affect the level of investment in manhole R&R. For purposes of planning, the annual opinion of probable cost for manhole R&R beyond 2030 is set as the same as the previous ten years at $3.66 million.

Table 8-3. Manhole Ten-year Renewal and Replacement Program

BRE Result	Quantity (ft)			Opinion of Probable Cost			
	Highest Priority (Immediate)	High Priority-Program Rehab	Priority-Program Rehab	Highest Priority (Immediate)	High Priority-Program Rehab	Priority-Program Rehab	Annual[1]
Marshall Street	1	23	1,280	$35,000	$393,000	$20,118,000	$2,054,600
East	1	22	644	$35,000	$393,000	$10,137,000	$1,056,500
Northeast	3	13	326	$104,000	$236,000	$5,187,000	$552,700
Totals	**5**	**58**	**2,250**	**$174,000**	**$1,022,000**	**$35,442,000**	**$3,663,800**

Note:

1. Annual opinion of probable cost represents the total R&R cost divided by ten years.

8.3.3.3 Lift Stations

Table 8-3 presents the rehabilitation opinion of probable cost by BRE result for lift stations with a composite condition score of 3.5 or greater. There are only two priority-program rehab ranked lift stations in the system largely due to the City's ongoing rehabilitation program. Currently two priority-program rehab ranked stations, 65 and 54 are being rehabilitated and therefore are not shown.

In general lift stations have a 25 to 30 life year life cycle so a static R&R program would have the City rehabilitating or replacing 2 to 3 lift stations every year. It is assumed 2 lift stations can be rehabilitated per year without unduly affecting system operations beginning with the lift stations in **Table 8-4**. In subsequent years lift station R&R is estimated at $700,000 per station at two stations per year for a total of $1.4 million per year. As the City implements its routine lift station evaluation program, specific lift stations can be scheduled.

Table 8-4. Lift Station Renewal and Replacement

BRE Result	Lift Station			Opinion of Probable Cost		
	Highest Priority (Immediate) and High Priority-Program Rehab	Priority-program rehab	Frequent Condition Assessment[1]	Highest Priority (Immediate) and High priority-program rehab	Priority-program rehab	Frequent Condition Assessment
Marshall Street	0	LS 68	LS 59, 61	$0	$480,000	LS 59 - $526,000 LS 61 - $789,000
East	0	LS 34	0	$0	$949,000	$0
Northeast	0	LS 60	0	$0	$886,000	$0
Totals	**0**	**3**	**2**	$0	**$2,315,000**	**$1,315,000**

Note:

1. Lift stations with a composite condition score of 3.5 or greater.

8.3.3.4 Force Mains

As mentioned previously the BRE for force mains relies on a condition tied to force main age and material rather than actual assessments. The BRE results identified a few priority-program rehab force mains that are included in the R&R program shown in **Table 8-5** below. Like manholes, it is recommended the force main R&R program be reevaluated once the City has implemented a condition assessment review of the force main system.

Table 8-5. Force Main Renewal and Replacement

WRF Basin	Description	Quantity (ft)	BRE Result	Condition Score	Opinion of Probable Cost	Planning Period
Northeast	30” Along Rigsby Ln to the Northeast WRF	4,041	Priority-program rehab	3	$3,880,000	To 2030 (Within 5 Years)
Marshall Street	24” FM along Blanche B Little John Trail and Marshall Street	8,900	Priority-program rehab	3	$7,266,000	To 2030 (Within 5 Years)
	6” FM discharge from LS 35, 39 and 28	6,300	Frequent Condition Evaluation	4	$987,000	2031 to 2050
East	LS 19 10” Discharge FM	4,956	Frequent Condition Evaluation	4	$2,649,000	2031 to 2050

8.3.3.5 Summary of Renewal and Replacement Projects

Table 8-6 provides a summary of the renewal and replacement projects by planning period.

Table 8-6. Summary of Renewal and Replacement Annual Investment

	To 2030	2031 to 2050
Gravity Mains[1]	$102,207,000	$222,200,000
Manholes[2]	$36,638,000	$73,276,000
Lift Stations[3]	$10,630,000	$28,000,000
Force Mains[4]	$11,146,000	$3,636,000
Total	**$160,621,000**	**$327,112,000**

Notes:

1. Based on an annual expenditure of $10.22 million per year from 2021 to 2030 and $11.11 million per year from 2031 to 2050.
2. Based on an annual expenditure of $3.66 million per year through 2050.
3. Based on prioritized lift stations from Table 8-4 plus a $1.4 million investment over 5 years from 2021 to 2030 and $1.40 million per year thereafter.
4. Based on prioritized projects.

8.3.4 CIP Summary

Table 8-7 presents a summary of the proposed capacity and R&R program by planning window.

Table 8-7. Summary of Collection System Opinion of Probable Cost

	To 2030	2031 to 2050
Capacity Related Projects		
Marshall Street WRF	$15,380,000	$0
East WRF	$7,532,000	$0
Northeast WRF	$36,210,000	$11,236,000
Total Capacity Related Project Cost	**$59,122,000**	**$11,236,000**
Renewal and Replacement Projects		
Marshall Street WRF	$88,154,000	$108,812,000
East WRF	$48,420,000	$110,474,000
Northeast WRF	$24,046,000	$107,825,000
Total Renewal and Replacement Project Cost	**$160,621,000**	**$327,111,000**
Total CIP Cost	**$219,742,000**	**$338,347,000**

8.4 RECOMMENDATIONS

The following actions are recommended to further supplement the capacity and R&R projects and the overall management of the wastewater collection system.

1. Prioritize documenting gravity main CCTV condition assessment per the prioritization shown in Section 8.3.
2. Develop a process where CCTV data is routinely tracked and linked with OWAM and GIS.
3. Continue to utilize CCTV data to verify collection system pipe size and material. Pipes identified as collection system piping less than 8" should be reviewed for possible reclassification as a service lateral.
4. Implement a private lift station monitoring program to identify and inventory private lift stations in the system. Consider adding lift station design requirements to new private lift stations.
5. Continue flow monitoring in the system considering the specific recommendations made in section 5.6.3 for the Marshall Street Basin, 6.6.3 for the East WRF Basin and 7.6.3 for the Northeast WRF Basin.
6. Periodically recalibrate the hydraulic model as additional data is received through the flow monitoring program.
7. Collect data on cause of SSOs and link to manhole IDs for cross referencing in GIS.
8. Implement a formal manhole condition assessment program using NAASCO standards. Estimated High Priority and Priority condition manholes identified in **Tables 5-11, 6-10 and 7-12** can serve as a starting point.
9. Identify and inventory missing ARVs in the system that could not be located as part of the Master Plan and implement a periodic ARV review program. Refer to section 5.4.4 for the Marshall Street Basin, 6.4.4 for the East WRF Basin and 7.4.4 for the Northeast WRF Basin valves.

APPENDIX A

SAMPLE LIFT STATION ASSESSMENT FORM

LIFT STATION NUMBER		ADDRESS		Type (Simplex, Duplex, Triplex) (Submersible or Dry-Pit)	
				Inspection Date	

SITE SECURITY	ISSUES	ASSET EXISTS? Y / N	DESCRIPTION/COMMENT
	Overall Security		
	Fencing		
	Lighting		

SITE/ACCESSIBILITY:	NO ACTION				
RECOMMENDATION	COMPONENT	Y / N	CONDITION RATING	COMPONENT DATA	
				ITEM	VALUE
	Too Close to Traffic			Comments	
	Driveway			Comments	
	Tripping Hazards			Comments	
	Water Service			Comments	
	Landscaping surrounding PS			Comments	

WET WELL:	REINSPECT (LT)				
RECOMMENDATION	COMPONENT	Y / N	CONDITION RATING	COMPONENT DATA	
				ITEM	VALUE
	Structure			Wet Well Size	
				Comments	
	Lining/Coating			Comments	
	Level Sensor			Level Sensor Type	
				Comments	
	Ladder/steps			Comments	
	Vent			Comments	
	Control Floats			Comments	
	Access Hatch			Manufacturer	

PIPING:	SCHEDULE PREVENTATIVE MAINTENANCE				
RECOMMENDATION	COMPONENT	Y / N	CONDITION RATING	COMPONENT DATA	
				ITEM	VALUE
	Wet Well Discharge Risers			Comments	
	Wet Well Influent Pipe			Material	
	Flow Meter			Comments	

PUMPS:	REPAIR/REPLACE (LOW PRIORITY)				
RECOMMENDATION	COMPONENT	Y / N	CONDITION RATING	COMPONENT DATA	
				ITEM	VALUE
	Submersible Pumps			Pump 1 Serial Number	
				Pump 2 Serial Number	
				Pump 1 Impeller Size	
				Pump 2 Impeller Size	
				Pump 3 Serial Number	
				Pump 3 Impeller Size	
	Guide Rails Pump			Comments	

VALVES/VALVE VAULT:	REPAIR/REPLACE (HIGH PRIORITY)				
RECOMMENDATION	COMPONENT	Y / N	CONDITION RATING	COMPONENT DATA	
				ITEM	VALUE
	Valve Vault			Comments	
	Check Valves			Pump 1 Check Valve Comment	
				Pump 2 Check Valve Comment	
				Pump 3 Check Valve Comment	
	Plug Valves			Pump 1 Plug Valve Comment	
				Pump 2 Plug Valve Comment	
				Pump 3 Plug Valve Comment	
	Emergency Pumping Connection			Comments	
	Pressure Gauge			Comments	

ABOVE GRADE ENCLOSURE:	NO ACTION				
RECOMMENDATION	COMPONENT	Y / N	CONDITION RATING	COMPONENT DATA	
				ITEM	VALUE
	Overall Condition			Comments	

ELECTRICAL, INSTRUMENTATION AND CONTROLS:	REINSPECT (LT)				
RECOMMENDATION	COMPONENT	Y / N	CONDITION RATING	COMPONENT DATA	
				ITEM	VALUE
	Equipment Mounting Rack			Comments	
	Surge Suppressor			Comments	
	Service conduit			Comments	
	Service Disconnect (Main Switch)			System Voltage	
				Comments	
	Control Panel			Year Installed	
	Alarm light			Comments	
	Circuit Breakers			Comments	
	Duplex Receptacle			Comments	
	SCADA Panel (RTU)			Manufacturer	
				Model Number	
				Serial Number	
				Year Installed	
				Comments	

GENERATOR:	SCHEDULE PREVENTATIVE MAINTENANCE				
RECOMMENTDATION	COMPONENT	Y / N	CONDITION RATING	COMPONENT DATA	
				ITEM	VALUE
	Generator			Comments	
	Pad under generator			Comments	
	Generator receptacle			Comments	
	Transfer switch			Comments	
	Fuel tank			Comments	

Ability to Accommodate Standby Power	
Flooding/Drainage Issues?	

Condition Rating	Recommendation Rating
1. Excellent	No Action
2. Slight Visible Degradation	Reinspect (LT)
3. Visible Degradation	Schedule Preventative Maintenance
4. Integrity of Component Moderately Compromised	Repair/Replace (Low Priority)
5. Integrity of Component Severely Compromised	Repair/Replace (High Priority)

APPENDIX B

ARV ASSESSMENT FORM

ARV Number			
Address			
Inspection Date			
MOST SEVERE RATING		**COMPOSITE SCORE**	
RECOMMENDATION	**COMPONENT**		**CONDITION RATING**
	Vault Lid		
	Vault Structural		
	Valve Vent		
	Valve Screen		
Test Performed (Y/N)			
Water in Vault (Y/N)			
ARV Leaks (Y/N)			
Isolation Valve Setting			
Comments			

Condition Rating

1. Excellent
2. Slight Visible Degradation
3. Visible Degradation
4. Integrity of Component Moderately Compromised
5. Integrity of Component Severely Compromised

Recommendation Rating

- No Action
- Reinspect (LT)
- Schedule Preventative Maintenance
- Repair/Replace (Low Priority)
- Repair/Replace (High Priority)

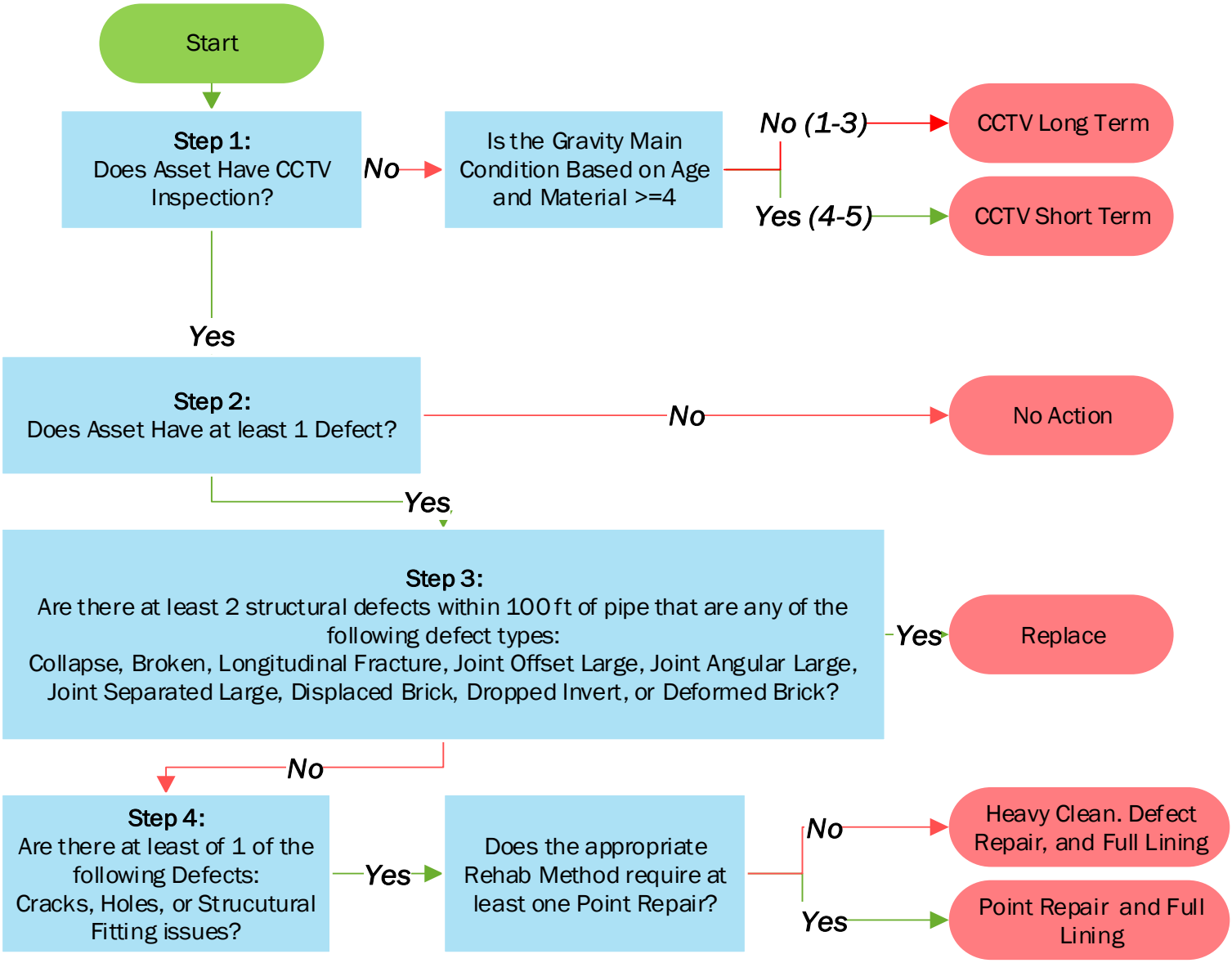
APPENDIX C

REHAB DECISION TREE

APPENDIX C — REHAB DECISION TREE



INITIAL REHABILITATION DECISION TREE PROCESS



APPENDIX D

GRAVITY MAIN REHAB LIST

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
1	Northeast WRF	272B8030.1	228	Yes	5	5	5x5	High Priority Immediate Action	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-N-Y-Y	2	107,062	36			
2	Marshall Street WRF	287B7035.1	313	Yes	5	4	5x4	High Priority Program Rehab	Lining	LIN		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-Y-N-Y	4	83,164	8	N EVERGREEN AVE	2020	
3	East WRF	289A2125.1	335	Yes	5	4	5x4	High Priority Program Rehab	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	211,779	10	S ARCTURAS AVE	2021	6/1/1963
4	East WRF	289A2125.1	27	Yes	5	4	5x4	High Priority Program Rehab	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	1	17,403	12	S ARCTURAS AVE	2021	6/14/2018
5	East WRF	289A2120.1	399	Yes	5	4	5x4	High Priority Program Rehab	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	271,974	10	S ARCTURAS AVE	2021	
6	East WRF	298A1130.1	284	Yes	5	4	5x4	High Priority Program Rehab	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	195,699	18	S ARCTURAS AVE	2021	6/1/1963
7	East WRF	308A3110.1	250	Yes	5	4	5x4	High Priority Program Rehab	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	172,387	18			6/1/1967
8	East WRF	292A2100.1	389	Yes	5	4	5x4	High Priority Program Rehab	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	113,837	15			6/1/1961
9	East WRF	308B8105.1	416	Yes	5	4	5x4	High Priority Program Rehab	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	127,400	8			6/1/1963
10	East WRF	298A3005.1	322	Yes	5	4	5x4	High Priority Program Rehab	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	59,869	18			6/1/1963
11	East WRF	292A2095.1	325	Yes	5	4	5x4	High Priority Program Rehab	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	15			6/1/1961
12	Northeast WRF	290B7005.1	95	Yes	5	4	5x4	High Priority Program Rehab	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	10			6/1/1967
13	Marshall Street WRF	287B5145.1	622	Yes	5	3	5x3	Priority Rehab Program	Point Repair	CP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	8	201,675	8	GROVE ST	2021	2/3/2008
14	Marshall Street WRF	295B7005.1	448	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	334,653	8			
15	Marshall Street WRF	268B8150.1	440	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	324,867	8			
16	Marshall Street WRF	305B7070.1	429	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	17	347,650	8			6/1/1983
17	Marshall Street WRF	296A3150.2	415	Yes	5	3	5x3	Priority Rehab Program	Point Repair and Lining	XXX		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	13	173,050	8			
18	Marshall Street WRF	267A4010.1	414	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	15	328,115	8			
19	Marshall Street WRF	296A3130.1	407	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	284,186	8			
20	Marshall Street WRF	313B7110.1	405	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	317,587	8			6/1/1973
21	Marshall Street WRF	278A1060.1	403	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	321,887	15			
22	Marshall Street WRF	268B8160.1	402	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	296,014	8			
23	Marshall Street WRF	287A2085.1	395	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	286,615	8			
24	Marshall Street WRF	269A4025.1	394	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	23	355,629	8			
25	Marshall Street WRF	287A3100.1	384	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	3	249,622	8			
26	Marshall Street WRF	278A3035.1	383	Yes	5	3	5x3	Priority Rehab Program	Replace	RCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	293,251	15			6/1/1975
27	Marshall Street WRF	278A2020.1	374	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	16	308,300	8	LEE ST	2018	
28	Marshall Street WRF	258B6005.1	367	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	259,059	8			6/1/1968
29	Marshall Street WRF	278A1030.1	345	Yes	5	3	5x3	Priority Rehab Program	Replace	FRP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	15	285,216	8			
30	Marshall Street WRF	285A3005.1	339	Yes	5	3	5x3	Priority Rehab Program	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	3	118,645	8			6/7/2008
31	Marshall Street WRF	287A2055.1	337	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	245,604	8	PIERCE ST	2021	
32	Marshall Street WRF	296A2030.1	335	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	249,296	8			
33	Marshall Street WRF	296A2035.1	335	Yes	5	3	5x3	Priority Rehab Program	Point Repair	FRP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	6	252,586	8			
34	Marshall Street WRF	252A1100.1	335	Yes	5	3	5x3	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	243,838	8	RIDGELANE RD	2019	
35	Marshall Street WRF	287A4100.1	334	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	17	288,152	8			
36	Marshall Street WRF	296A4170.1	330	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	9	245,971	8			
37	Marshall Street WRF	296A2105.1	329	Yes	5	3	5x3	Priority Rehab Program	Point Repair and Lining	XXX		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	15	205,597	8			
38	Marshall Street WRF	253A2015.1	327	Yes	5	3	5x3	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	103,569	10			6/1/1961
39	Marshall Street WRF	296A2025.1	326	Yes	5	3	5x3	Priority Rehab Program	Point Repair	FRP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	76,475	8			
40	Marshall Street WRF	296A3155.1	325	Yes	5	3	5x3	Priority Rehab Program	Point Repair	LIN		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	76,475	15			
41	Marshall Street WRF	287A1045.1	318	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	238,367	8	LAURA ST	2021	
42	Marshall Street WRF	296A3045.1	314	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	15	266,054	8			
43	Marshall Street WRF	277B8115.1	312	Yes	5	3	5x3	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	98,325	15	JONES ST	2018	
44	Marshall Street WRF	288A3105.1	312	Yes	5	3	5x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	106,273	8	N CREST AVE	2020	
45	Marshall Street WRF	269A2135.1	310	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	243,488	8			
46	Marshall Street WRF	286B6110.1	307	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	231,396	8	S OSCEOLA AVE	2021	
47	Marshall Street WRF	269A3005.1	302	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	233,207	8			
48	Marshall Street WRF	258A4025.1	301	Yes	5	3	5x3	Priority Rehab Program	Point Repair	FRP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	3	54,625	8			6/7/2008
49	Marshall Street WRF	287B7060.1	300	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	232,243	8	N EVERGREEN AVE	2020	
50	Marshall Street WRF	258A2005.1	300	Yes	5	3	5x3	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	MANDALAY AVE	2021	6/1/1963
51	Marshall Street WRF	287A5030.1	299	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	231,536	8			
52	Marshall Street WRF	287A2010.1	292	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	207,524	8			
53	Marshall Street WRF	296A4115.1	292	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	182,176	8			6/1/1999
54	Marshall Street WRF	306A4055.1	292	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	215,649	12			
55	Marshall Street WRF	305B7060.1	277	Yes	5	3	5x3	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	207,624	8			6/1/1983
56	Marshall Street WRF	287A3115.1	268	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	217,203	8			
57	Marshall Street WRF	278A3040.1	266	Yes	5	3	5x3	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	18,312	10			6/1/1975
58	Marshall Street WRF	269B6065.1	262	Yes	5	3	5x3	Priority Rehab Program	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	54,188	8			
59	Marshall Street WRF	305B5040.1	261	Yes	5	3	5x3	Priority Rehab Program	Point Repair	DIP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	5	122,855	8			
60	Marshall Street WRF	296B5190.1	260	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	172,187	8			6/1/1961
61	Marshall Street WRF	287A3040.1	251	Yes	5	3	5x3	Priority Rehab Program	Replace	XXX		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	211,429	8	NE CLEVELAND ST	2021	
62	Marshall Street WRF	251A3105.1	250	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	181,056	8	GRANADA ST	2023	6/1/1969
63	Marshall Street WRF	269A1055.1	246	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	183,438	8			
64	Marshall Street WRF	306A3125.1	245	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	172,979	8			
65	Marshall Street WRF	277B8080.1	242	Yes	5	3	5x3	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	177,981	10	JONES ST	2018	
66	Marshall Street WRF	287A1090.1	242	Yes	5	3	5x3	Priority Rehab Program	Replace	CAS	CAS	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	197,949	10	PARK ST	2021	
67	Marshall Street WRF	287A2040.1	223	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	184,453	8	PIERCE ST	2021	
68	Marshall Street WRF	287A2090.1	220	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	167,468	8			
69	Marshall Street WRF	287B6100.1	220	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	167,060	8			
70	Marshall Street WRF	270B6010.1	219	Yes	5	3	5x3	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	191,706	8	CASLER AVE	2018	
71	Marshall Street WRF	258A4060.1	219	Yes	5	3	5x3	Priority Rehab Program	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	MANDALAY AVE	2021	6/7/2008
72	Marshall Street WRF	306A3080.1	214	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	163,291	8			
73	Marshall Street WRF	253A1065.1	209	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	137,020	10			6/1/1961
74	Marshall Street WRF	286B5020.1	200	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	129,647	8	N OSCEOLA AVE	2021	
75	Marshall Street WRF	296B5125.1	186	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	116,146	8			6/1/1965
76	Marshall Street WRF	269A3050.1	175	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	20	204,077	8			
77	Marshall Street WRF	306A3090.1	174	Yes	5	3	5x3	Priority Rehab Program	Point Repair	LIN		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	32,775	12			
78	Marshall Street WRF	278A1055.1	168	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	129,738	12			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
79	Marshall Street WRF	296B6030.1	167	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	114,366	8			
80	Marshall Street WRF	285B5035.1	165	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	127,913	8			
81	Marshall Street WRF	285A3070.1	157	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	127,962	8			
82	Marshall Street WRF	306A3040.1	156	Yes	5	3	5x3	Priority Rehab Program	Point Repair	LIN		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	32,775	15			
83	Marshall Street WRF	305B8040.1	155	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	101,900	8			
84	Marshall Street WRF	260A3055.1	148	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	16	167,373	8			
85	Marshall Street WRF	277B7030.1	134	Yes	5	3	5x3	Priority Rehab Program	Replace	CAS	CAS	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	93,459	8			
86	Marshall Street WRF	253A1005.1	129	Yes	5	3	5x3	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	54,625	10			6/1/1962
87	Marshall Street WRF	296B5009.1	125	Yes	5	3	5x3	Priority Rehab Program	Point Repair	PVC		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	34,960	12			
88	Marshall Street WRF	296A3105.1	120	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	89,828	8			5/1/1986
89	Marshall Street WRF	285A3060.1	108	Yes	5	3	5x3	Priority Rehab Program	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	55,281	8			
90	Marshall Street WRF	287A2125.1	98	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	3	70,932	8			
91	Marshall Street WRF	287A3090.1	91	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	1	56,732	8			
92	Marshall Street WRF	269A3135.1	58	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	127,125	30			
93	Marshall Street WRF	287A1085.1	56	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	3	45,123	10	PARK ST	2021	
94	Marshall Street WRF	296A3010.1	36	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	1	22,469	8			
95	Marshall Street WRF	296B7015.1	33	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	6	46,769	12			
96	Marshall Street WRF	295B6095.1	717	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	7	267,444	8			
97	Marshall Street WRF	251A4050.1	627	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	2	43,700	8	OVERBROOK AVE	2023	6/1/1969
98	Marshall Street WRF	296A1070.1	604	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	33	537,087	8			
99	Marshall Street WRF	288A1105.1	592	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	21	469,605	8	CLEVELAND ST	2020	
100	Marshall Street WRF	287A1025.1	566	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	9	191,865	8	BOOTH AVE	2021	
101	Marshall Street WRF	296A2005.1	494	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	16	383,588	8			
102	Marshall Street WRF	269A3165.1	458	Yes	5	2	5x2	Priority Rehab Program	Point Repair	FRP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	5	192,499	8			
103	Marshall Street WRF	296B6100.1	446	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8			6/1/1980
104	Marshall Street WRF	287B7105.1	431	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	18	353,773	8			
105	Marshall Street WRF	249A3095.1	426	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	113,640	8	MANDALAY AVE	2021	6/7/2008
106	Marshall Street WRF	277B8045.1	413	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	312,942	8	N GARDEN AVE	2018	
107	Marshall Street WRF	296B6070.1	410	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	306,140	8			
108	Marshall Street WRF	270A2040.1	404	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	15	321,876	8			
109	Marshall Street WRF	252A1060.1	402	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	295,599	8	RIDGELANE RD	2019	
110	Marshall Street WRF	296A2045.1	401	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	315,035	8			
111	Marshall Street WRF	287A4055.1	397	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	18	332,942	8			
112	Marshall Street WRF	269A4040.1	395	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	21	346,817	8			
113	Marshall Street WRF	278A4045.2	384	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	274,699	8	N WASHINGTON AVE	2018	6/1/1975
114	Marshall Street WRF	276A4030.1	383	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	76,475	8			
115	Marshall Street WRF	252B7080.1	383	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1961
116	Marshall Street WRF	260A3030.1	376	Yes	5	2	5x2	Priority Rehab Program	Point Repair	FRP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	OVERBROOK AVE	2023	
117	Marshall Street WRF	269A4145.1	375	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	107,939	8			
118	Marshall Street WRF	288A3125.1	373	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	10	277,574	8			
119	Marshall Street WRF	251A2110.1	371	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	256,429	8			6/1/1964
120	Marshall Street WRF	268B7070.1	359	Yes	5	2	5x2	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	284,057	8	SUNSET DR	2022	
121	Marshall Street WRF	251A2120.1	353	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	245,323	8			6/1/1964
122	Marshall Street WRF	296B6020.1	351	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	259,259	8			
123	Marshall Street WRF	288A2130.1	342	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	273,161	8			
124	Marshall Street WRF	287A4095.1	341	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	41	412,675	8			
125	Marshall Street WRF	261A1075.1	340	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	267,247	8			6/1/1962
126	Marshall Street WRF	278A2100.1	338	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	17	291,183	8	VINE AVE	2018	
127	Marshall Street WRF	278B5080.1	337	Yes	5	2	5x2	Priority Rehab Program	Point Repair	CAS		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	7	353,970	8			2/3/2008
128	Marshall Street WRF	297A1085.1	336	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	32,775	8			
129	Marshall Street WRF	288A2025.2	332	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	262,169	8	PIERCE ST	2020	
130	Marshall Street WRF	251A4030.1	325	Yes	5	2	5x2	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	13	130,698	8			6/1/1964
131	Marshall Street WRF	287B6130.1	322	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	251,156	8			
132	Marshall Street WRF	252A4145.1	320	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	229,713	8			6/1/1970
133	Marshall Street WRF	268B8055.1	313	Yes	5	2	5x2	Priority Rehab Program	Point Repair	LIN		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	3	43,700	8			
134	Marshall Street WRF	270B7030.1	311	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	9	113,497	8	ARIES LN	2018	6/1/1971
135	Marshall Street WRF	287A4070.1	305	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	12	245,425	8			6/1/1961
136	Marshall Street WRF	295B6030.1	303	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	224,234	8			
137	Marshall Street WRF	295B6035.1	299	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	221,598	8			
138	Marshall Street WRF	287B5065.1	295	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	214,034	8	GROVE ST	2021	
139	Marshall Street WRF	278B6030.1	294	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	233,776	8	N JEFFERSON AVE	2018	
140	Marshall Street WRF	278A4055.1	294	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	104,771	8	JACKSON RD	2018	6/1/1975
141	Marshall Street WRF	296A1065.1	287	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	18	264,430	8			
142	Marshall Street WRF	278B6110.1	287	Yes	5	2	5x2	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	179,290	8	N PRESCOTT AVE	2018	
143	Marshall Street WRF	253A1120.1	287	Yes	5	2	5x2	Priority Rehab Program	Point Repair	CAS		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	121,923	8			2/3/2008
144	Marshall Street WRF	269A2140.1	285	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	203,154	8			6/1/1969
145	Marshall Street WRF	288B5005.1	284	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	5	197,257	8	N LAKE DR	2020	6/1/1962
146	Marshall Street WRF	252A1010.1	283	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	191,856	8	RIDGELANE RD	2019	

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
147	Marshall Street WRF	306B7040.1	283	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	201,554	8			
148	Marshall Street WRF	278B6070.1	282	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	189,221	8	JACKSON RD	2018	6/1/1975
149	Marshall Street WRF	287B8105.1	281	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	215,484	8			
150	Marshall Street WRF	279A2160.1	281	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	195,375	8	MARIVA AVE	2020	
151	Marshall Street WRF	252A3045.1	281	Yes	5	2	5x2	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	180,327	8			6/1/1973
152	Marshall Street WRF	278A4040.2	274	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	221,095	8	JACKSON RD	2018	
153	Marshall Street WRF	253A1125.1	274	Yes	5	2	5x2	Priority Rehab Program	Point Repair	CAS		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	56,810	8			2/3/2008
154	Marshall Street WRF	296B8145.1	273	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	195,104	8			
155	Marshall Street WRF	261B6055.1	271	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	184,278	8			1/1/1973
156	Marshall Street WRF	296A2020.1	271	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	4	76,475	8			
157	Marshall Street WRF	305B6005.1	269	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	178,095	8			
158	Marshall Street WRF	270B8055.1	269	Yes	5	2	5x2	Priority Rehab Program	Lining	PVC		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	58,440	8			
159	Marshall Street WRF	296B5040.1	264	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	204,619	8			
160	Marshall Street WRF	306B5005.1	259	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	186,822	8			6/1/1962
161	Marshall Street WRF	260A4040.1	252	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	10	201,984	8			
162	Marshall Street WRF	314A3175.1	250	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	185,932	8			
163	Marshall Street WRF	252B5050.1	249	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	5	189,002	10			6/1/1978
164	Marshall Street WRF	252A4040.1	249	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	175,537	8			
165	Marshall Street WRF	252B6040.1	248	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	169,659	8			6/1/1961
166	Marshall Street WRF	260A4065.1	248	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	194,643	8			
167	Marshall Street WRF	269A2020.1	246	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	198,381	8			
168	Marshall Street WRF	286B7110.1	244	Yes	5	2	5x2	Priority Rehab Program	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12	N GARDEN AVE	2021	
169	Marshall Street WRF	313B7005.1	242	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	155,967	8			6/1/1973
170	Marshall Street WRF	252B5085.1	238	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	79,896	8			6/1/1978
171	Marshall Street WRF	287B5105.1	234	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
172	Marshall Street WRF	314A4060.1	233	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	34,960	8			6/1/1962
173	Marshall Street WRF	238A3045.1	231	Yes	5	2	5x2	Priority Rehab Program	Point Repair	FRP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	2	32,775	8	ELDORADO AVE	2021	2/3/2008
174	Marshall Street WRF	252A3080.1	229	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	163,058	8			6/1/1973
175	Marshall Street WRF	252A2100.1	222	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	153,525	8			
176	Marshall Street WRF	296B5140.1	210	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	156,304	8			
177	Marshall Street WRF	269A2010.1	201	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	52,440	8			
178	Marshall Street WRF	287A1055.1	195	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	156,830	8	LAURA ST	2021	
179	Marshall Street WRF	287B6105.1	184	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	134,999	8			
180	Marshall Street WRF	270A3015.1	184	Yes	5	2	5x2	Priority Rehab Program	Point Repair	FRP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	84,125	8	FLAGLER DR	2018	
181	Marshall Street WRF	287A4020.1	174	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	133,534	8			
182	Marshall Street WRF	252B6070.1	167	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	104,154	8			6/1/1961
183	Marshall Street WRF	278A4110.1	151	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	99,413	8			
184	Marshall Street WRF	296B8070.1	134	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	93,515	8			
185	Marshall Street WRF	270A1015.1	123	Yes	5	2	5x2	Priority Rehab Program	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
186	Marshall Street WRF	287B6135.1	117	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	41,337	8			
187	Marshall Street WRF	258A3075.1	101	Yes	5	2	5x2	Priority Rehab Program	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	50,910	8	MANDALAY AVE	2021	2/3/2008
188	Marshall Street WRF	268B7005.1	92	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	77,421	8	FAIRMONT ST	2022	
189	Marshall Street WRF	287A3125.1	84	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	40,204	8			
190	Marshall Street WRF	252B5055.1	77	Yes	5	2	5x2	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	17,284	10			6/1/1978
191	Marshall Street WRF	287A2050.1	65	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	7	70,542	8			
192	Marshall Street WRF	288A2112.1	50	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	46,207	8	DE LEON ST	2020	
193	Marshall Street WRF	288A1095.1	43	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	26,679	8	CLEVELAND ST	2020	
194	Marshall Street WRF	296B6035.1	397	Yes	5	1	5x1	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	273,003	8			
195	Marshall Street WRF	287A1050.1	376	Yes	5	1	5x1	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	9	274,410	8	BOOTH AVE	2021	
196	Marshall Street WRF	296B7060.1	275	Yes	5	1	5x1	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	3	54,625	8			
197	Marshall Street WRF	306A2005.1	394	Yes	4	4	4x4	Priority Rehab Program	Point Repair and Lining	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	14	173,535	8			
198	Marshall Street WRF	260A3070.1	384	Yes	4	4	4x4	Priority Rehab Program	Point Repair	CP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	32,775	12			2/3/2008
199	Marshall Street WRF	296B8005.1	370	Yes	4	4	4x4	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	243,830	10	MARK DR	2018	
200	Marshall Street WRF	260A1025.1	343	Yes	4	4	4x4	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	229,073	8			6/1/1968
201	Marshall Street WRF	314A3120.1	257	Yes	4	4	4x4	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	192,484	10			6/1/1966
202	Marshall Street WRF	276A2035.1	280	Yes	4	3	4x3	Priority Rehab Program	Point Repair	PVC		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	11	284,877	8			
203	Marshall Street WRF	276A2035.1	30	Yes	4	3	4x3	Priority Rehab Program	Point Repair	PVC		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	11	284,877	8			
204	Marshall Street WRF	279A3025.1	644	Yes	4	3	4x3	Priority Rehab Program	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
205	Marshall Street WRF	260A3010.1	548	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	15	195,039	8			
206	Marshall Street WRF	287B5050.1	535	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	99,199	8	GROVE ST	2021	
207	Marshall Street WRF	296A2040.1	492	Yes	4	3	4x3	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	341,855	8			
208	Marshall Street WRF	287A4090.1	490	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	25	425,838	8			
209	Marshall Street WRF	287A2115.1	473	Yes	4	3	4x3	Priority Rehab Program	Lining	FRP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	8	137,925	8			2/3/2008
210	Marshall Street WRF	278B7050.1	466	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	FRP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	198,565	30			
211	Marshall Street WRF	268B7085.1	458	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	19	375,775	8	ENGMAN ST	2022	
212	Marshall Street WRF	269A2030.1	455	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	17	363,868	8			
213	Marshall Street WRF	313B8040.1	450	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	346,058	8			
214	Marshall Street WRF	268B7035.1	450	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	21	380,700	8	FAIRMONT ST	2022	
215	Marshall Street WRF	269A1100.1	433	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	20	365,111	8			
216	Marshall Street WRF	296A1050.1	432	Yes	4	3	4x3	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	6	139,324	15			
217	Marshall Street WRF	260A1085.1	430	Yes	4	3	4x3	Priority Rehab Program	Point Repair	LIN		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8	VENETIAN DR	2022	
218	Marshall Street WRF	269A2075.1	428	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	16	363,661	15			
219	Marshall Street WRF	251A2130.1	421	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	292,734	8			6/1/1964
220	Marshall Street WRF	296B5030.1	416	Yes	4	3	4x3	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	299,379	8			6/1/1969
221	Marshall Street WRF	296A1100.1	414	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	15	328,597	8			
222	Marshall Street WRF	295B8100.1	412	Yes	4	3	4x3	Priority Rehab Program	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			6/1/1983
223	Marshall Street WRF	287B5045.1	405	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	17	333,014	8	KENWOOD AVE	2021	
224	Marshall Street WRF	314A3145.1	400	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	127,937	8			
225	Marshall Street WRF	295B8020.1	399	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	309,179	8			
226	Marshall Street WRF	279B5035.1	399	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	11	142,693	8	CASLER AVE	2018	6/1/1965
227	Marshall Street WRF	279B5060.1	397	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	297,881	8			6/1/1965
228	Marshall Street WRF	268B7055.1	394	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	305,898	8	MARSHALL ST	2022	
229	Marshall Street WRF	287A2165.1	385	Yes	4	3	4x3	Priority Rehab Program	Point Repair	PVC		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	54,625	15			
230	Marshall Street WRF	251B7110.1	385	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	300,061	8	KINGS HWY	2019	6/1/1965

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
231	Marshall Street WRF	306A2015.1	380	Yes	4	3	4x3	Priority Rehab Program	Point Repair	LIN		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	101,384	8			
232	Marshall Street WRF	278A1050.1	375	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	277,039	10			
233	Marshall Street WRF	286B7050.1	374	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	166,159	12	N GARDEN AVE	2021	
234	Marshall Street WRF	253A1095.1	374	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	263,344	8	DAWN DR	2019	6/1/1960
235	Marshall Street WRF	269A2115.1	373	Yes	4	3	4x3	Priority Rehab Program	Point Repair	FRP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	15			
236	Marshall Street WRF	296A2100.1	367	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	294,184	8			
237	Marshall Street WRF	296A2055.1	364	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	14	292,248	8			
238	Marshall Street WRF	268B8090.1	362	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	290,944	8			
239	Marshall Street WRF	277B7125.1	355	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	PVC		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	11	133,068	8			
240	Marshall Street WRF	278A2175.1	350	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	283,262	8	PENNSYLVANIA AVE	2018	
241	Marshall Street WRF	287B5085.1	349	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	17	297,993	8	GROVE ST	2021	
242	Marshall Street WRF	296A4130.1	334	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
243	Marshall Street WRF	296B7035.1	333	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	33,535	6			
244	Marshall Street WRF	278A1080.1	332	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	244,203	21	NA	2018	6/1/1997
245	Marshall Street WRF	306A4155.1	330	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	205,871	8			6/1/1964
246	Marshall Street WRF	305B5080.1	329	Yes	4	3	4x3	Priority Rehab Program	Replace	PVC	PVC	[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is Yes	Y-Y-N-N-Y-Y	4	220,212	8			
247	Marshall Street WRF	305B8090.1	329	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	5	98,325	8			6/1/1973
248	Marshall Street WRF	287A3105.1	328	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	54,625	8			
249	Marshall Street WRF	260A2090.1	328	Yes	4	3	4x3	Priority Rehab Program	Point Repair	FRP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	137,873	8	OSAGE ST	2022	
250	Marshall Street WRF	313B8005.1	327	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	9	117,064	8			6/1/1964
251	Marshall Street WRF	269A2120.1	325	Yes	4	3	4x3	Priority Rehab Program	Replace	FRP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	16	293,879	15			
252	Marshall Street WRF	314A4075.1	324	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	202,247	8			
253	Marshall Street WRF	278A3045.1	322	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	83,350	10			6/1/1975
254	Marshall Street WRF	287A3025.1	320	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	219,537	8	NA	2018	6/1/1961
255	Marshall Street WRF	249B5005.1	319	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	233,976	8			6/1/1969
256	Marshall Street WRF	296A4045.1	318	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	95,266	8			6/1/1999
257	Marshall Street WRF	296A1045.1	317	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	65,769	8			6/1/1965
258	Marshall Street WRF	251A2070.1	316	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	197,408	8	SUNNYDALE DR	2023	6/1/1964
259	Marshall Street WRF	287A1095.1	314	Yes	4	3	4x3	Priority Rehab Program	Point Repair	FRP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	89,585	10	PARK ST	2021	2/3/2008
260	Marshall Street WRF	279B5095.1	312	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	219,924	8			6/1/1965
261	Marshall Street WRF	285A3020.1	311	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	243,881	8			
262	Marshall Street WRF	306A4060.1	309	Yes	4	3	4x3	Priority Rehab Program	Point Repair	LIN		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	5	313,985	8			
263	Marshall Street WRF	296B7030.1	309	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	212,001	12			
264	Marshall Street WRF	277B7040.1	308	Yes	4	3	4x3	Priority Rehab Program	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	43,700	8			
265	Marshall Street WRF	269A2110.1	308	Yes	4	3	4x3	Priority Rehab Program	Replace	FRP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	247,384	15			
266	Marshall Street WRF	285A1010.1	307	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	102,812	8			
267	Marshall Street WRF	252A1025.1	307	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	221,378	8	ALPINE RD	2019	6/1/1965
268	Marshall Street WRF	269A2215.1	301	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	227,858	8			
269	Marshall Street WRF	269A3145.1	299	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	15	256,460	8			
270	Marshall Street WRF	285B5010.1	296	Yes	4	3	4x3	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	9	104,464	8			
271	Marshall Street WRF	285A3025.1	295	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	219,180	8			
272	Marshall Street WRF	258B6010.1	294	Yes	4	3	4x3	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	5	83,871	8			6/1/1965
273	Marshall Street WRF	268B8025.2	291	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	99,185	8	ENGMAN ST	2022	
274	Marshall Street WRF	252A1050.1	289	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	220,593	8	ALPINE RD	2019	6/1/1965
275	Marshall Street WRF	252A4015.1	286	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	190,691	10			
276	Marshall Street WRF	269A4035.1	286	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	243,358	8			
277	Marshall Street WRF	286B7095.1	286	Yes	4	3	4x3	Priority Rehab Program	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	98,325	15	LAURA ST	2021	1/1/1990
278	Marshall Street WRF	253A1085.1	285	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	194,889	10			6/1/1961
279	Marshall Street WRF	288A1045.1	284	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	92,790	8	GROVE ST	2020	
280	Marshall Street WRF	297A1015.1	284	Yes	4	3	4x3	Priority Rehab Program	Replace	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	242,043	8			
281	Marshall Street WRF	267A4040.1	281	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	215,613	8			
282	Marshall Street WRF	278A2180.1	281	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	220,396	8			
283	Marshall Street WRF	279B5110.1	278	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	76,453	8			6/1/1963
284	Marshall Street WRF	270A2010.1	275	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	96,669	8			
285	Marshall Street WRF	251B7095.1	272	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	214,767	8	KINGS HWY	2019	6/1/1965
286	Marshall Street WRF	251B7065.1	271	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	188,925	8	ALPINE RD	2019	6/1/1965
287	Marshall Street WRF	251A2095.1	267	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	171,817	8			6/1/1964
288	Marshall Street WRF	296A3100.1	265	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	175,515	8			5/1/1986
289	Marshall Street WRF	306A4135.1	265	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	210,326	8			6/1/1963
290	Marshall Street WRF	306A4120.1	265	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	195,251	8			6/1/1963
291	Marshall Street WRF	278A1170.1	263	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	193,147	21	MAPLE ST	2018	
292	Marshall Street WRF	252A1085.1	259	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	171,881	8	KINGS HWY	2019	6/1/1965
293	Marshall Street WRF	260A2150.1	255	Yes	4	3	4x3	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	8	90,527	8	MOHAWK ST	2022	
294	Marshall Street WRF	305B5030.1	247	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	179,193	6			
295	Marshall Street WRF	306A4010.1	245	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	187,953	8			
296	Marshall Street WRF	313B7020.1	243	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	181,667	8			6/1/1973
297	Marshall Street WRF	306A3115.1	238	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	168,665	8			
298	Marshall Street WRF	306A4085.1	236	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	177,045	8			
299	Marshall Street WRF	287A4065.1	227	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	196,872	8			
300	Marshall Street WRF	288A2155.1	225	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	145,230	8			
301	Marshall Street WRF	269A4120.1	224	Yes	4	3	4x3	Priority Rehab Program	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1985
302	Marshall Street WRF	277B7090.1	223	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	169,154	8			
303	Marshall Street WRF	269A4015.1	223	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1968
304	Marshall Street WRF	267A3060.1	221	Yes	4	3	4x3	Priority Rehab Program	Lining	PVC		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	5	68,173	8			
305	Marshall Street WRF	296A3109.1	220	Yes	4	3	4x3	Priority Rehab Program	Point Repair	LIN		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	32,775	15			
306	Marshall Street WRF	258B8060.1	218	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	151,279	8			6/1/1965
307	Marshall Street WRF	269B6045.1	217	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	145,327	8			
308	Marshall Street WRF	296B8015.1	209	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	25,125	6	S EVERGREEN AVE	2018	
309	Marshall Street WRF	269B6115.1	208	Yes	4	3	4x3	Priority Rehab Program	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	26,220	8			
310	Marshall Street WRF	252A1080.1	208	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	149,694	8	ALPINE RD	2019	6/1/1965
311	Marshall Street WRF	258B8045.1	204	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	137,472	8			6/1/1965
312	Marshall Street WRF	267A4025.1	203	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	141,860	8			
313	Marshall Street WRF	251B7055.1	197	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	73,779	8	KINGS HWY	2019	6/1/1965
314	Marshall Street WRF	278A1115.1	188	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	138,161	21	NA	2018	6/1/1997
315	Marshall Street WRF	252A3070.1	187	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	126,770	8			6/1/1973
316	Marshall Street WRF	278A2110.1	186	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	146,098	8	HART ST	2018	6/1/1975
317	Marshall Street WRF	269A2225.1	180	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	137,540	8			
318	Marshall Street WRF	296A1060.1	175	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	129,015	8			
319	Marshall Street WRF	305B8050.1	175	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	118,920	8			
320	Marshall Street WRF	313B7105.1	169	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	130,658	8			6/1/1986
321	Marshall Street WRF	306A1090.1	167	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	124,232	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
322	Marshall Street WRF	269B8140.1	165	Yes	4	3	4x3	Priority Rehab Program	Lining	LIN		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	5	55,918	8			6/1/1965
323	Marshall Street WRF	296B5150.1	161	Yes	4	3	4x3	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	7	64,983	8			6/1/1965
324	Marshall Street WRF	306A2020.1	153	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	105,494	8			
325	Marshall Street WRF	259B8045.1	141	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	118,198	8	SUNBURST CT	2022	
326	Marshall Street WRF	251A2015.1	139	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	46,147	8	CHARLES ST	2023	6/1/1961
327	Marshall Street WRF	306A4015.1	122	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	95,963	8			
328	Marshall Street WRF	269A3190.1	114	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	81,212	8			
329	Marshall Street WRF	277B6045.1	111	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	84,541	8	N OSCEOLA AVE	2018	
330	Marshall Street WRF	287B7021.1	104	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	70,207	8			
331	Marshall Street WRF	287A2130.1	93	Yes	4	3	4x3	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	3	30,229	8			
332	Marshall Street WRF	296B5115.1	70	Yes	4	3	4x3	Priority Rehab Program	Replace	CAS	CAS	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	45,455	12			
333	Marshall Street WRF	305B7035.1	66	Yes	4	3	4x3	Priority Rehab Program	Point Repair	PVC		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	32,775	8			6/1/1983
334	Marshall Street WRF	305B7010.1	46	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-N	1	28,570	8			
335	Marshall Street WRF	306A3120.1	30	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	18,922	8			
336	Marshall Street WRF	286B7225.1	7	Yes	4	3	4x3	Priority Rehab Program	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	24,035	8	PARK ST	2021	
337	East WRF	291A2090.1	247	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	161,213	12			6/1/1961
338	East WRF	291B6085.1	12	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	1	7,926	15			6/1/1961
339	East WRF	290B8065.1	132	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	86,585	12			6/1/2013
340	East WRF	291A2075.1	47	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	1	30,489	12			6/1/2013
341	East WRF	291A4100.1	397	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	283,003	15			6/1/1961
342	East WRF	298A4045.1	370	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	254,681	18			6/1/1963
343	East WRF	291A2080.1	399	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	261,106	12			6/1/1961
344	East WRF	291B8090.1	272	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	183,205	15			6/1/1961
345	East WRF	308B6065.1	150	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	98,404	8	S HERCULES AVE	2020	6/1/1963
346	East WRF	298A4010.1	295	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	193,996	8			6/1/1962
347	East WRF	288B6070.1	160	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	104,561	8			6/1/1962
348	East WRF	289B6140.1	286	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	178,364	8			
349	East WRF	308B5120.1	60	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	37,449	8			6/1/1962
350	East WRF	315A2075.1	323	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	211,596	8			6/1/1966
351	East WRF	307A1145.1	337	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	275,336	8			
352	East WRF	307B5025.1	241	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	175,354	8			
353	East WRF	298A1005.1	223	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	149,184	8	VIRGINIA LN	2021	
354	East WRF	289A4090.1	340	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	227,307	8			
355	East WRF	291B6080.1	330	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	226,123	8			6/1/1963
356	East WRF	308B6070.1	290	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	196,138	8	S HERCULES AVE	2020	6/1/1963
357	East WRF	298A1040.1	86	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	63,978	8	BROOKSIDE DR	2021	
358	East WRF	297A4135.1	288	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	199,940	8			6/1/1967
359	East WRF	298A2015.1	207	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	139,476	8	BROOKSIDE DR	2021	6/1/1962
360	East WRF	289A4095.1	332	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	227,414	8			
361	East WRF	290B6065.1	360	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	279,964	8			6/1/1964
362	East WRF	298A1010.1	251	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	156,427	8	BROOKSIDE DR	2021	
363	East WRF	317A1025.1	82	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	1	50,984	8			6/1/1966
364	East WRF	274B8010.1	120	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	74,711	8	ROSE RD	2018	6/1/1963
365	East WRF	309B5030.1	388	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	267,194	8			6/1/1980
366	East WRF	315B7055.1	142	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	1	88,503	8			6/1/1971
367	East WRF	289A1055.1	369	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	280,046	8			
368	East WRF	298A1025.1	419	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	311,649	8	BROOKSIDE DR	2021	
369	East WRF	308B8035.1	355	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	221,370	8	MORNINGSIDE DR	2019	6/1/1963
370	East WRF	298B5010.1	375	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	283,810	8			
371	East WRF	290A4080.1	396	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	252,169	8			6/1/1961
372	East WRF	299B5080.1	122	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	76,309	8			6/1/1962
373	East WRF	308B6100.1	348	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	19	307,128	8	S HERCULES AVE	2020	6/1/1963
374	East WRF	298A4030.1	425	Yes	5	3	5x3	Priority Rehab Program	Replace	FRP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	19	355,261	8			6/1/1962
375	East WRF	307B5020.1	49	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	1	30,671	8			
376	East WRF	308A3065.1	316	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	227,133	8			6/1/1962
377	East WRF	298A1015.1	106	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	66,159	8	BROOKSIDE DR	2021	
378	East WRF	298B5025.1	297	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	200,165	8			
379	East WRF	300A3025.1	190	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	128,766	8			6/1/1961
380	East WRF	297B7020.1	41	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	1	25,876	8			
381	East WRF	297A4070.1	268	Yes	5	3	5x3	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	58,304	8			
382	East WRF	298A1060.1	317	Yes	5	3	5x3	Priority Rehab Program	Lining	FRP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	3	78,886	8	BROOKSIDE DR	2021	
383	East WRF	298A4145.1	307	Yes	5	3	5x3	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	6	91,782	8	VIRGINIA LN	2021	
384	East WRF	290B8045.1	455	Yes	5	3	5x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	131,646	8			2/1/2013
385	East WRF	299B5005.1	360	Yes	5	3	5x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	121,056	8			6/1/1961
386	East WRF	316A2005.1	339	Yes	5	3	5x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	99,676	8			
387	East WRF	307A3015.1	280	Yes	5	3	5x3	Priority Rehab Program	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	76,475	12			6/1/1983
388	East WRF	298A1111.1	328	Yes	5	3	5x3	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	17,698	10	S ARCTURAS AVE	2021	6/1/1963
389	East WRF	299A3015.1	373	Yes	5	3	5x3	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	54,625	8			6/1/1961
390	East WRF	290A4090.1	362	Yes	5	3	5x3	Priority Rehab Program	Point Repair	LIN		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	60,306	8			6/1/1961

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
391	East WRF	299A3010.1	384	Yes	5	3	5x3	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	60,306	8			6/1/1961
392	East WRF	289A3065.1	272	Yes	5	3	5x3	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
393	East WRF	298B5040.1	304	Yes	5	3	5x3	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
394	East WRF	314B7020.1	268	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	169,035	10			6/1/1981
395	East WRF	283A3055.1	324	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	226,991	8	MADERA AVE	2019	6/1/1965
396	East WRF	315B6035.1	376	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	11	284,742	8			
397	East WRF	299A1065.1	225	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	155,392	8			6/1/1982
398	East WRF	309B7045.1	395	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	276,398	8			6/1/1980
399	East WRF	298B6010.1	279	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	194,355	8			6/1/1962
400	East WRF	317B5045.1	392	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	279,483	8	SUMMERLIN DR	2019	6/1/1968
401	East WRF	314B7030.1	349	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	277,594	8			
402	East WRF	297B6115.1	166	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	108,571	8			6/1/1964
403	East WRF	307B5045.1	385	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	280,435	8			
404	East WRF	297B8030.1	293	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	192,744	8			6/1/1962
405	East WRF	316B5080.1	357	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	262,743	8	S HERCULES AVE	2020	6/1/1963
406	East WRF	309A3085.1	305	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	215,170	8	FLUSHING AVE	2019	6/1/1963
407	East WRF	296B8170.1	242	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	181,153	8			
408	East WRF	309A3015.1	199	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	133,920	8	GLENMOOR RD N	2019	6/1/1963
409	East WRF	298B6055.1	329	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	245,589	8			6/1/1962
410	East WRF	300A1010.1	239	Yes	5	2	5x2	Priority Rehab Program	Replace	DIP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	159,184	8			6/1/1961
411	East WRF	309B6075.1	281	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	185,366	8	HARN BLVD	2019	6/1/1965
412	East WRF	308A3060.1	307	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	241,503	8			6/1/1962
413	East WRF	297A4100.1	242	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	186,155	8			
414	East WRF	298A2050.1	356	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	262,353	8			6/1/1962
415	East WRF	290B6050.1	389	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	298,034	8			6/1/1964
416	East WRF	308A1035.1	355	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	266,853	8			6/1/1970
417	East WRF	297A3050.1	332	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	251,983	8	TURNER ST	2021	
418	East WRF	316B5045.1	345	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	255,409	8	S HERCULES AVE	2020	6/1/1963
419	East WRF	309B5075.1	316	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	217,387	8			6/1/1980
420	East WRF	297A2145.1	376	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	259,556	8			
421	East WRF	307B5075.1	233	Yes	5	2	5x2	Priority Rehab Program	Replace	CAS	CAS	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	160,312	8			6/1/1964
422	East WRF	307A1175.1	353	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	280,409	8			
423	East WRF	298B1000.1	188	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	132,605	8			
424	East WRF	309B5070.1	314	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	215,797	8			6/1/1980
425	East WRF	309B6095.1	424	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	304,395	8	SUMMERLIN DR	2019	6/1/1966
426	East WRF	283A3025.1	381	Yes	5	2	5x2	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	257,721	8	SAN BERNADINO ST	2019	6/1/1971
427	East WRF	297A3090.1	194	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	136,729	8	SKYVIEW AVE	2021	
428	East WRF	290A4045.1	335	Yes	5	2	5x2	Priority Rehab Program	Replace	FRP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	238,897	8			6/1/1963
429	East WRF	290B6055.1	383	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	264,003	8			6/1/1964
430	East WRF	314B5055.1	282	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	210,769	8			
431	East WRF	297B5080.1	284	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	217,258	8	S KEYSTONE AVE	2021	
432	East WRF	288B8025.1	339	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	25	331,596	8			
433	East WRF	309A4095.1	294	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	218,676	8	RANCHWOOD DR	2019	6/1/1965
434	East WRF	309B6010.1	247	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	169,261	8	MORELAND DR	2019	6/1/1966
435	East WRF	314B7005.1	375	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	264,174	8			
436	East WRF	297A3130.1	343	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	273,847	8	S CREST AVE	2021	
437	East WRF	297B5060.1	399	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	299,213	8	YELVINGTON AVE	2021	
438	East WRF	298B5105.1	224	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	169,869	8			6/1/1966
439	East WRF	290B6080.1	275	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	211,775	8			6/1/1964
440	East WRF	309B5080.1	295	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	203,970	8			6/1/1980
441	East WRF	291B6045.1	290	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	226,159	8			6/1/1963
442	East WRF	316B5010.1	319	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	16	274,123	8	AMBASSADOR DR	2020	6/1/1963
443	East WRF	297B6035.1	264	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	189,788	8			6/1/1964
444	East WRF	290B6020.1	240	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	184,855	8			6/1/1964
445	East WRF	317B5050.1	315	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	236,450	8	SUMMERLIN DR	2019	6/1/1968
446	East WRF	309A1020.1	192	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	125,059	8	GLENMOOR RD N	2019	6/1/1962
447	East WRF	298B8005.1	337	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	230,465	8			
448	East WRF	309B7055.1	266	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	185,954	8			6/1/1980
449	East WRF	300A1025.1	146	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	1	91,023	8			6/1/1961
450	East WRF	297B5070.1	339	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	246,290	8	SPENCER AVE	2021	
451	East WRF	289B5040.1	135	Yes	5	2	5x2	Priority Rehab Program	Replace	CAS	CAS	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	104,396	8			
452	East WRF	289B5010.1	364	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	267,014	8			
453	East WRF	317A2145.1	45	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	1	28,135	8			6/1/1989
454	East WRF	309B7100.1	42	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	25,989	8			2/1/2014
455	East WRF	314B7190.1	313	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	245,178	8			
456	East WRF	315A1005.1	264	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	194,768	8			6/1/1963
457	East WRF	306B7090.1	263	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	199,420	8			
458	East WRF	307A1070.1	241	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	205,336	8			
459	East WRF	307A1100.1	113	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	80,557	8			
460	East WRF	306B7095.1	137	Yes	5	2	5x2	Priority Rehab Program	Replace	DIP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	95,751	8			
461	East WRF	297B5065.1	360	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	259,976	8	S KEYSTONE AVE	2021	
462	East WRF	307A3080.1	99	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	61,595	8			6/1/1962
463	East WRF	315B7020.1	277	Yes	5	2	5x2	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	7	90,284	8			6/1/1972
464	East WRF	297B7145.1	268	Yes	5	2	5x2	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	6	83,298	8			6/1/1962
465	East WRF	288B7030.1	353	Yes	5	2	5x2	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	10	121,748	8			
466	East WRF	309A4080.1	357	Yes	5	2	5x2	Priority Rehab Program	Lining	FRP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	77,687	8	WILLIAMS DR	2019	6/1/1963
467	East WRF	288B8060.1	328	Yes	5	2	5x2	Priority Rehab Program	Lining	FRP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	71,280	8			
468	East WRF	297B6005.1	362	Yes	5	2	5x2	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	7	108,794	8	YELVINGTON AVE	2021	
469	East WRF	289A2035.1	304	Yes	5	2	5x2	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	3	76,160	8			
470	East WRF	306B6035.1	363	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	9	124,916	8			6/1/1971
471	East WRF	309A3005.1	314	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	9	114,139	8	FLUSHING AVE	2019	6/1/1963
472	East WRF	316A2040.1	172	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	PVC		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	48,359	8			
473	East WRF	288B6050.1	328	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	112,247	8			6/1/1962
474	East WRF	290A4020.1	261	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	77,669	8			6/1/1961

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
475	East WRF	309B5095.1	271	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	79,969	8			6/1/1980
476	East WRF	290A4075.1	330	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	109,622	8			6/1/1964
477	East WRF	283B5025.1	148	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	43,425	8	MONTEREY AVE	2019	6/1/1965
478	East WRF	309B5005.1	402	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	140,123	8			6/1/1980
479	East WRF	280A2055.1	333	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	127,692	8			
480	East WRF	290A4060.1	258	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	71,995	8			6/1/1961
481	East WRF	283A3100.1	331	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	104,710	8	SAN MATEO ST	2019	6/1/1965
482	East WRF	309B6015.1	342	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	91,833	8	MORELAND DR	2019	6/1/1966
483	East WRF	291B6075.1	339	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	6	229,862	8			6/1/1968
484	East WRF	297A3135.1	352	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	5	122,581	8	S LAKE DR	2021	
485	East WRF	297B6010.1	342	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	13,110	8	YELVINGTON AVE	2021	
486	East WRF	298A1115.1	202	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8			6/1/1962
487	East WRF	314B8100.1	308	Yes	5	2	5x2	Priority Rehab Program	Point Repair	FRP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	112,309	8			
488	East WRF	290A4015.1	392	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	5	218,718	8			2/3/2008
489	East WRF	309B5060.1	317	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	13,110	8			6/1/1980
490	East WRF	289A3080.1	362	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	1	10,925	8			
491	East WRF	297B7095.1	225	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	54,625	8	TURNER ST	2021	
492	East WRF	297B8005.1	362	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	130,445	8	S DUNCAN AVE	2021	
493	East WRF	297B6055.1	261	Yes	5	1	5x1	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	177,893	8			6/1/1964
494	East WRF	298B8105.1	243	Yes	5	1	5x1	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	176,585	8			
495	East WRF	298B8120.1	144	Yes	5	1	5x1	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	28,842	8			
496	East WRF	289A2080.1	345	Yes	4	4	4x4	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	103,524	10			
497	East WRF	316B7040.1	177	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	112,045	10			6/1/1966
498	East WRF	289A2115.1	221	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	157,849	6	BROOKSIDE DR	2021	
499	East WRF	307A1130.1	303	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	197,919	12			6/1/1981
500	East WRF	298A4090.1	282	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	194,249	18			6/1/1963
501	East WRF	298A1020.1	25	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y	1	15,604	8	BROOKSIDE DR	2021	
502	East WRF	316B5030.1	293	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	203,039	8	ENVOY CT	2020	6/1/1965
503	East WRF	298B6005.1	227	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	151,819	8			6/1/1962
504	East WRF	308B6080.1	192	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	144,894	8	EMBASSY DR	2020	6/1/1966
505	East WRF	290B6035.1	358	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	278,210	8			6/1/1964
506	East WRF	308B5100.1	59	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	36,593	8			6/1/1962
507	East WRF	299A1025.1	402	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	266,196	8			6/1/1961
508	East WRF	315A2080.1	170	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	106,103	8			6/1/1980
509	East WRF	297A3120.1	354	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	265,832	8	S GLENWOOD AVE	2021	
510	East WRF	308B6110.1	259	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	191,919	8	EMBASSY DR	2020	6/1/1966
511	East WRF	299A4100.1	271	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	193,869	8	CHINABERRY RD	2019	6/1/1963
512	East WRF	316B7090.1	378	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	270,900	8			6/1/1971
513	East WRF	299A3135.1	357	Yes	4	3	4x3	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	222,869	8			6/1/1964
514	East WRF	297A3125.1	352	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	254,953	8	SKYVIEW AVE	2021	
515	East WRF	297A4075.1	286	Yes	4	3	4x3	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	218,598	8			
516	East WRF	308A3100.1	299	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	221,390	8			6/1/1962
517	East WRF	309B6065.1	378	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	266,164	8	HARN BLVD	2019	6/1/1966
518	East WRF	299A3140.1	54	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	33,550	8			6/1/1962
519	East WRF	298B5030.1	302	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	238,271	8			
520	East WRF	299A1005.1	403	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	251,529	8			6/1/1961
521	East WRF	299A1120.1	367	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	229,162	8			6/1/1964
522	East WRF	315B8045.1	358	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	253,313	8			
523	East WRF	307A3095.1	158	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	98,445	8			6/1/1962
524	East WRF	299A1070.1	350	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	238,450	8			
525	East WRF	289A2025.1	357	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-N-Y	5	100,269	10			
526	East WRF	316B7060.1	270	Yes	4	3	4x3	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-Y-N-Y	10	103,635	8			6/1/1971
527	East WRF	297A3210.1	206	Yes	4	3	4x3	Priority Rehab Program	Lining	XXX		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-Y-N-Y	1	44,905	8			6/1/1983
528	East WRF	298A2075.1	357	Yes	4	3	4x3	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-Y-N-Y	3	87,710	8			6/1/1962
529	East WRF	291B8110.1	349	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	103,402	15			6/1/1961
530	East WRF	307A1150.1	322	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	88,053	12			6/1/1981
531	East WRF	299B6065.1	136	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	40,590	8			
532	East WRF	306B7210.1	280	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	76,853	8			6/1/1973
533	East WRF	309B6085.1	305	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	87,328	8	HARN BLVD	2019	6/1/1966
534	East WRF	308B6025.1	292	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	94,416	8	CORONET LN	2020	6/1/1967
535	East WRF	309B5025.1	382	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	135,900	8			6/1/1980
536	East WRF	299A4105.1	282	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	97,359	8	FLUSHING AVE	2019	6/1/1963
537	East WRF	308A3095.1	297	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	105,482	8			6/1/1962
538	East WRF	292A2060.1	276	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	85,985	8			6/1/1968
539	East WRF	317B5010.1	610	Yes	4	3	4x3	Priority Rehab Program	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	48,416	30	FAIRBANKS DR	2019	6/1/1963
540	East WRF	299B6050.1	171	Yes	4	3	4x3	Priority Rehab Program	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1962
541	East WRF	288B6080.1	331	Yes	4	3	4x3	Priority Rehab Program	Point Repair	FRP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1962
542	East WRF	290A4085.1	369	Yes	4	3	4x3	Priority Rehab Program	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	25,128	8			6/1/1961
543	East WRF	297A4110.1	273	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	21,850	8			
544	East WRF	289A1020.1	275	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	21,850	8			
545	East WRF	290A2125.1	408	Yes	4	3	4x3	Priority Rehab Program	Point Repair	LIN		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	54,625	8			6/1/1961
546	East WRF	298A4050.1	339	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8			6/1/1962
547	East WRF	297B7085.1	280	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8	FLORIDA AVE	2021	9/2/2008
548	East WRF	290B8075.1	320	Yes	4	3	4x3	Priority Rehab Program	Point Repair	LIN		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	5	109,906	8			6/1/1961
549	East WRF	307A3025.1	320	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	54,625	8			
550	East WRF	307A3090.1	414	Yes	4	3	4x3	Priority Rehab Program	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			6/1/1962
551	Northeast WRF	280B5170.1	321	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	202,966	10			6/1/1973
552	Northeast WRF	271A4015.1	72	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y	1	46,823	12			6/1/1973
553	Northeast WRF	271B6025.1	349	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	225,366	10			6/1/1973
554	Northeast WRF	222A1040.1	46	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	31,140	15			6/1/1977
555	Northeast WRF	232B8025.1	187	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	117,831	10			
556	Northeast WRF	290A3065.1	311	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	238,961	8			6/1/1967
557	Northeast WRF	279B8075.1	301	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	232,947	8			
558	Northeast WRF	291A3010.1	90	Yes	5	3	5x3	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	56,097	8			6/1/1987
559	Northeast WRF	261B7010.1	287	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	179,260	8			6/1/1969

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
560	Northeast WRF	233A1075.1	177	Yes	5	3	5x3	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	110,300	8			11/1/1983
561	Northeast WRF	281B8105.1	37	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	23,304	8			6/1/1981
562	Northeast WRF	289B7105.1	306	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	210,869	8	S STARCREST DR	2018	6/1/1968
563	Northeast WRF	265A2030.1	295	Yes	5	3	5x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	219,380	8	SARAH DR	2022	6/1/1974
564	Northeast WRF	264A4130.1	123	Yes	5	3	5x3	Priority Rehab Program	Lining	CAS		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	32,576	14	EVANS DR	2022	6/1/1984
565	Northeast WRF	282A3015.1	358	Yes	5	3	5x3	Priority Rehab Program	Lining	LIN		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	85,752	12			
566	Northeast WRF	264A1045.1	291	Yes	5	3	5x3	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	2	74,820	12			6/1/1971
567	Northeast WRF	254B8060.1	58	Yes	5	3	5x3	Priority Rehab Program	Lining	FRP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	12,519	8			2/3/2008
568	Northeast WRF	273B6105.1	378	Yes	5	3	5x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	129,131	8	APPLEWOOD DR	2020	6/1/1972
569	Northeast WRF	232B5105.1	299	Yes	5	3	5x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	97,925	8			6/1/1979
570	Northeast WRF	273A4040.1	260	Yes	5	3	5x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	82,429	8	BEACHWOOD AVE	2020	6/1/1972
571	Northeast WRF	232B8020.1	225	Yes	5	3	5x3	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	59,213	10			
572	Northeast WRF	222A3005.1	92	Yes	5	3	5x3	Priority Rehab Program	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-N-Y-N-N	1	10,925	18			6/1/1977
573	Northeast WRF	233A2010.1	288	Yes	5	3	5x3	Priority Rehab Program	Point Repair	PVC		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	162,345	8			11/1/1983
574	Northeast WRF	273A2005.1	206	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	130,226	10			6/1/1973
575	Northeast WRF	232A2085.1	299	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	226,765	8			6/1/1977
576	Northeast WRF	281A2025.1	206	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	143,347	8			6/1/1979
577	Northeast WRF	222B8115.1	232	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	154,609	8			6/1/1977
578	Northeast WRF	273A3130.1	310	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	223,604	8			
579	Northeast WRF	273B6040.1	262	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	193,635	8	CANDLEWOOD ST	2020	6/1/1972
580	Northeast WRF	289B8050.1	305	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	210,363	8	S STARCREST DR	2018	6/1/1968
581	Northeast WRF	281A3045.1	249	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	175,106	8			6/1/1969
582	Northeast WRF	261B7030.1	132	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	82,301	8			6/1/1961
583	Northeast WRF	261B7050.1	260	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	162,553	8			6/1/1961
584	Northeast WRF	189A4005.1	230	Yes	5	2	5x2	Priority Rehab Program	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	143,702	8	MASTERS DR	2022	6/1/1980
585	Northeast WRF	271A4030.1	193	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	120,421	8			6/1/1981
586	Northeast WRF	261B7090.1	266	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	165,943	8			6/1/1961
587	Northeast WRF	261B7085.1	403	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	311,578	8			6/1/1961
588	Northeast WRF	261B7095.1	320	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	229,586	8			6/1/1961
589	Northeast WRF	261B7105.1	370	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	286,175	8			6/1/1961
590	Northeast WRF	261B7110.1	254	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	158,771	8			6/1/1961
591	Northeast WRF	261B8020.1	261	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	173,049	8			6/1/1961
592	Northeast WRF	261B7070.1	260	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	162,164	8			6/1/1961
593	Northeast WRF	261B7100.1	382	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	293,681	8			6/1/1961
594	Northeast WRF	261B7025.1	361	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	255,181	8			6/1/1961
595	Northeast WRF	280B5021.1	152	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	94,782	8			
596	Northeast WRF	281A3065.1	270	Yes	5	2	5x2	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	168,810	8			6/1/1969
597	Northeast WRF	253A4080.1	257	Yes	5	2	5x2	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	5	75,977	8			6/1/1974
598	Northeast WRF	280A4085.1	272	Yes	5	2	5x2	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	10	104,220	8			
599	Northeast WRF	264A1015.1	273	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	81,392	12			6/1/1967
600	Northeast WRF	272B5045.1	221	Yes	5	2	5x2	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	73,973	8	EL TAIR TRL	2023	4/1/1981
601	Northeast WRF	264A2020.1	299	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	5	139,494	10			6/1/1971
602	Northeast WRF	264A1025.1	300	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	54,625	12			6/1/1967
603	Northeast WRF	244B8075.1	269	Yes	5	2	5x2	Priority Rehab Program	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,904	8			6/1/1998
604	Northeast WRF	261B7065.1	355	Yes	5	2	5x2	Priority Rehab Program	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	4	56,810	8			6/1/1961
605	Northeast WRF	263A3020.1	223	Yes	5	2	5x2	Priority Rehab Program	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	PRINCETON DR	2020	6/1/1970
606	Northeast WRF	244A1015.1	408	Yes	5	1	5x1	Priority Rehab Program	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	5	241,932	10			6/1/1984
607	Northeast WRF	290A3035.1	332	Yes	4	4	4x4	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	222,216	8			6/1/1967
608	Northeast WRF	272B8035.1	49	Yes	4	4	4x4	Priority Rehab Program	Lining	XXX		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	13,675	18			
609	Northeast WRF	281B8090.1	169	Yes	4	4	4x4	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	51,430	12			6/1/1967
610	Northeast WRF	271B6005.1	325	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	239,010	15			6/1/1973
611	Northeast WRF	273A1120.1	343	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	231,278	15			6/1/1967
612	Northeast WRF	271B6015.1	327	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	245,827	15			6/1/1973
613	Northeast WRF	271A3015.1	270	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	176,342	12			6/1/1977
614	Northeast WRF	232B8015.1	285	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	179,680	10			
615	Northeast WRF	232B8040.1	298	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	187,980	10			
616	Northeast WRF	271A3055.1	214	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	140,066	12			6/1/1977
617	Northeast WRF	282A4075.1	300	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	194,459	10			6/1/1970
618	Northeast WRF	264A1035.1	94	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	66,373	12			6/1/1967
619	Northeast WRF	256A2145.1	135	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	93,252	12			6/1/1972
620	Northeast WRF	290B7010.1	362	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	233,702	10			2/3/2008
621	Northeast WRF	271A4010.1	29	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	17,888	8			6/1/1977
622	Northeast WRF	279B8035.1	173	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	123,209	8			
623	Northeast WRF	280B7010.1	169	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	105,290	8			6/1/1970
624	Northeast WRF	289B8025.1	300	Yes	4	3	4x3	Priority Rehab Program	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	207,243	8	S STARCREST DR	2018	6/1/1968
625	Northeast WRF	232B5100.1	344	Yes	4	3	4x3	Priority Rehab Program	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	74,864	8			6/1/1979
626	Northeast WRF	255A2080.1	218	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	63,180	12			6/1/1967
627	Northeast WRF	273A2015.1	147	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	XXX		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	115,531	10			6/1/1973
628	Northeast WRF	271B7090.1	360	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	111,366	15			6/1/1973
629	Northeast WRF	279B8050.1	418	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	126,759	8			
630	Northeast WRF	290B5010.1	237	Yes	4	3	4x3	Priority Rehab Program	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	73,345	8			6/1/1967
631	Northeast WRF	264A2075.1	316	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	41,952	12			6/1/1967
632	Northeast WRF	264A4010.1	304	Yes	4	3	4x3	Priority Rehab Program	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	87,182	10	EVANS DR	2022	6/1/1984
633	Northeast WRF	279B8060.1	266	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	16,606	8			
634	Northeast WRF	282B6010.1	295	Yes	4	3	4x3	Priority Rehab Program	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	54,625	8			6/1/1970
635	Marshall Street WRF	277B8055.1	568	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	FRP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	431,182	12	MAPLE ST	2018	
636	Marshall Street WRF	278B6120.1	545	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	395,166	8	JACKSON RD	2018	
637	Marshall Street WRF	268B7025.1	472	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	16	183,684	8	FAIRMONT ST	2022	
638	Marshall Street WRF	279B6075.1	468	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	5	103,569	8			
639	Marshall Street WRF	267A3034.1	468	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	22	396,843	8			
640	Marshall Street WRF	305B8010.1	458	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	115,496	8			
641	Marshall Street WRF	268B7095.1	436	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	16	346,895	8	SUNSET DR	2022	
642	Marshall Street WRF	296A1080.1	431	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	313,933	8			
643	Marshall Street WRF	295B6015.1	423	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	318,779	8	OAK AVE	2020	
644	Marshall Street WRF	277B7045.1	414	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	FRP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-N-Y-N	4	285,469	12			
645	Marshall Street WRF	269A4065.1	414	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	298,128	8			
646	Marshall Street WRF	249B5010.1	407	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	303,979	8			6/1/1968
647	Marshall Street WRF	296A2015.1	401	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	15	320,432	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
648	Marshall Street WRF	296B5025.1	401	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	310,272	8			6/1/1961
649	Marshall Street WRF	268B7100.1	401	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	17	330,043	8			
650	Marshall Street WRF	278A3065.1	395	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	286,465	8			
651	Marshall Street WRF	269A4045.1	392	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	20	339,497	8			
652	Marshall Street WRF	252A4065.1	389	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	287,557	8			6/1/1970
653	Marshall Street WRF	278A4095.2	386	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	124,843	8	N WASHINGTON AVE	2018	
654	Marshall Street WRF	276A3020.1	383	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	284,106	8			
655	Marshall Street WRF	278A3055.1	379	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	120,594	8			
656	Marshall Street WRF	259B7010.1	379	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	17	316,501	8	VENETIAN POINT DR	2022	
657	Marshall Street WRF	287B5090.1	379	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	281,394	8			
658	Marshall Street WRF	268B8075.1	378	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	280,944	8			
659	Marshall Street WRF	252B8105.1	376	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	122,768	8			6/1/1970
660	Marshall Street WRF	296B6045.1	374	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	122,175	8			
661	Marshall Street WRF	278A3060.1	370	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	270,728	8			
662	Marshall Street WRF	278A1020.1	369	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	LIN		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	98,325	8			6/1/1975
663	Marshall Street WRF	268B7075.1	368	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	18	314,780	8	MARSHALL ST	2022	
664	Marshall Street WRF	252B6130.1	367	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	120,786	8			6/1/1970
665	Marshall Street WRF	276A3015.1	366	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	293,637	8			
666	Marshall Street WRF	296A3055.1	366	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	293,125	8			
667	Marshall Street WRF	295B6055.1	365	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	282,896	8			
668	Marshall Street WRF	295B6050.1	364	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	70,357	8			
669	Marshall Street WRF	313B8065.1	362	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	16	301,203	8			
670	Marshall Street WRF	253A1070.1	362	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	6	109,250	8	DAWN DR	2019	6/1/1960
671	Marshall Street WRF	278A4090.2	358	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	248,531	8	N WASHINGTON AVE	2018	
672	Marshall Street WRF	253A1100.1	358	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	263,411	8	SETON DR	2019	6/1/1960
673	Marshall Street WRF	295A4005.1	357	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	247,722	8			
674	Marshall Street WRF	251A4025.1	356	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	29,721	8	WILSON BLVD	2023	6/1/1964
675	Marshall Street WRF	269A4030.1	351	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	17	299,252	8			
676	Marshall Street WRF	296A3040.1	350	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	283,450	8			
677	Marshall Street WRF	252A2075.1	350	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	258,150	8	BYRAM DR	2019	
678	Marshall Street WRF	305B6030.1	349	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	147,494	6			
679	Marshall Street WRF	295B8005.1	349	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	34,304	8			6/1/1983
680	Marshall Street WRF	306B5020.1	349	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	111,853	8			6/1/1962
681	Marshall Street WRF	296A3050.1	349	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	277,826	8			
682	Marshall Street WRF	252B6125.1	347	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	9	121,382	8			6/1/1970
683	Marshall Street WRF	279A2055.1	345	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	LIN		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	10	120,109	8	MAPLE ST	2020	
684	Marshall Street WRF	260A2130.1	345	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	FRP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	54,625	8	MOHAWK ST	2022	
685	Marshall Street WRF	278A2095.1	343	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	FRP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	17	294,003	8	HART ST	2018	
686	Marshall Street WRF	288A2150.1	342	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	11	130,314	8			
687	Marshall Street WRF	314A4070.1	337	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	12	265,207	8			
688	Marshall Street WRF	297A1045.1	336	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	14	160,897	8			
689	Marshall Street WRF	269A3200.1	336	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	39,767	8			
690	Marshall Street WRF	278A2045.1	335	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	16	284,258	8	VINE AVE	2018	
691	Marshall Street WRF	314A4100.1	335	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	14	273,934	8			
692	Marshall Street WRF	296A2060.1	333	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	267,675	8			
693	Marshall Street WRF	305B8075.1	331	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	14	271,866	8			6/1/1973
694	Marshall Street WRF	261A2075.1	331	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	XXX		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	94,766	8			6/1/1971
695	Marshall Street WRF	269A4005.1	331	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	25	326,503	8			
696	Marshall Street WRF	288A2090.1	328	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	78,223	8			
697	Marshall Street WRF	252A2095.1	325	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	111,623	8			
698	Marshall Street WRF	306A1005.1	324	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
699	Marshall Street WRF	269A2060.1	324	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	121,302	8			
700	Marshall Street WRF	287B8080.1	323	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	251,364	8			
701	Marshall Street WRF	277B7050.1	323	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	221,324	8			
702	Marshall Street WRF	296B8105.1	321	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	259,606	12	MARK DR	2018	
703	Marshall Street WRF	288A2105.1	318	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	238,521	8	DE LEON ST	2020	
704	Marshall Street WRF	306A1015.1	317	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	11	247,565	8			6/1/1983
705	Marshall Street WRF	276A4040.1	315	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	103,350	8			
706	Marshall Street WRF	306A3085.1	315	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	17	276,398	8			
707	Marshall Street WRF	268B8020.1	315	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8	ENGMAN ST	2022	
708	Marshall Street WRF	252A1035.1	311	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	208,820	8	RIDGELANE RD	2019	
709	Marshall Street WRF	288A4010.1	310	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	218,175	8			
710	Marshall Street WRF	252B6135.1	309	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	93,189	8			6/1/1970
711	Marshall Street WRF	278B6055.1	303	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	9	111,922	8	N JEFFERSON AVE	2018	6/1/1975
712	Marshall Street WRF	288A3100.1	303	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	66,205	8			
713	Marshall Street WRF	277B8035.1	301	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	253,072	8	HART ST	2018	
714	Marshall Street WRF	252A1090.1	301	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	101,294	8	RIDGELANE RD	2019	
715	Marshall Street WRF	296A1085.1	300	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	237,259	8			
716	Marshall Street WRF	285A3080.1	299	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	226,369	8			
717	Marshall Street WRF	270A3060.1	298	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	6	89,743	8			
718	Marshall Street WRF	285B5065.1	296	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	209,942	8			
719	Marshall Street WRF	297A1090.1	296	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	2	13,110	8			
720	Marshall Street WRF	288A1040.1	295	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	234,413	8	GROVE ST	2020	6/1/1967
721	Marshall Street WRF	259B8005.1	295	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	FRP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	117,116	8	SUNSET DR	2022	
722	Marshall Street WRF	252B6100.1	294	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	183,659	8			6/1/1970
723	Marshall Street WRF	288A3070.1	294	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	223,574	8	N CREST AVE	2020	
724	Marshall Street WRF	287B6095.1	293	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	223,066	8			
725	Marshall Street WRF	258B7030.1	291	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	7	93,408	8			6/1/1968
726	Marshall Street WRF	269A2065.1	290	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	226,023	8			6/1/1974
727	Marshall Street WRF	278A4070.1	290	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	231,009	8	N MADISON AVE	2018	
728	Marshall Street WRF	278B6035.1	289	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	235,366	8	N LINCOLN AVE	2018	6/1/1975
729	Marshall Street WRF	269A2180.1	286	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	238,737	8			6/1/1969
730	Marshall Street WRF	288A2135.1	285	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	4	78,879	8			
731	Marshall Street WRF	278A4065.1	284	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	97,736	8	JACKSON RD	2018	
732	Marshall Street WRF	252A3060.1	283	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	196,718	8			6/1/1973
733	Marshall Street WRF	252A1075.1	282	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	201,091	8	RIDGELANE RD	2019	
734	Marshall Street WRF	238A3035.1	282	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	FRP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	10	106,256	8	MANDALAY AVE	2021	2/3/2008
735	Marshall Street WRF	297A1055.1	281	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	118,913	8			
736	Marshall Street WRF	278A4050.1	280	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	204,485	8	N MADISON AVE	2018	6/1/1975
737	Marshall Street WRF	306A4150.1	279	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	7	178,733	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
738	Marshall Street WRF	251A1040.1	278	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8	COMMODORE ST	2023	2/3/2008
739	Marshall Street WRF	314A3160.1	274	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	191,105	8			6/1/1961
740	Marshall Street WRF	269A2150.1	273	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	215,682	8			6/1/1969
741	Marshall Street WRF	268B8010.1	273	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	225,483	8	ENGMAN ST	2022	
742	Marshall Street WRF	252B6050.1	271	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	184,092	8			6/1/1961
743	Marshall Street WRF	279B6065.1	271	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	213,851	8			6/1/1963
744	Marshall Street WRF	287B5060.1	270	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	4	65,550	8	GROVE ST	2021	
745	Marshall Street WRF	278B6050.1	270	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	218,665	8	JACKSON RD	2018	
746	Marshall Street WRF	288A1140.1	270	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	FRP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	208,658	8	S SAN REMO AVE	2020	
747	Marshall Street WRF	285B5070.1	269	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	167,627	8			6/1/1964
748	Marshall Street WRF	288A4005.1	267	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	11	159,122	8	PARK ST	2020	
749	Marshall Street WRF	269A1115.1	266	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	206,179	8			
750	Marshall Street WRF	295B6010.1	265	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	215,445	8	BAY AVE	2020	
751	Marshall Street WRF	252A4025.1	265	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	187,091	10			6/1/1961
752	Marshall Street WRF	288B5035.1	264	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	204,955	8	GROVE ST	2020	3/26/1986
753	Marshall Street WRF	288A2085.1	264	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	164,697	8			
754	Marshall Street WRF	252A2110.1	264	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	184,533	8	WILSON RD	2019	6/1/1962
755	Marshall Street WRF	306B7075.1	262	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	183,369	8			
756	Marshall Street WRF	314A4065.1	261	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	187,911	8			6/1/1962
757	Marshall Street WRF	314A3070.1	260	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	197,461	8			6/1/1966
758	Marshall Street WRF	252B6055.1	260	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	67,518	8			6/1/1961
759	Marshall Street WRF	269A1125.1	260	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	212,355	8			6/1/1972
760	Marshall Street WRF	252B6045.1	259	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	77,281	8			6/1/1961
761	Marshall Street WRF	287B6030.1	259	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	11	106,247	8			
762	Marshall Street WRF	313B8055.1	257	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	185,251	8			
763	Marshall Street WRF	288B5030.1	256	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8	N LAKE DR	2020	3/26/1986
764	Marshall Street WRF	269A1130.1	255	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	214,012	8			6/1/1972
765	Marshall Street WRF	295B5105.1	254	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	168,536	8	ORANGE AVE	2020	
766	Marshall Street WRF	252B6005.1	254	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	170,327	10			6/1/1961
767	Marshall Street WRF	259B8065.1	251	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	201,940	8	SUNBURST CT	2022	
768	Marshall Street WRF	269A1135.1	251	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	95,544	8			6/1/1972
769	Marshall Street WRF	277B7170.1	251	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	11	100,405	6			
770	Marshall Street WRF	296B8160.1	246	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	188,811	8			
771	Marshall Street WRF	287B6040.1	246	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	79,097	8			
772	Marshall Street WRF	296B6080.1	244	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	182,194	8			
773	Marshall Street WRF	268B8040.1	244	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	88,919	8			
774	Marshall Street WRF	252B5040.1	240	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	175,002	8			6/1/1978
775	Marshall Street WRF	306A1060.1	240	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	189,561	8			6/1/1983
776	Marshall Street WRF	296A2065.1	236	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
777	Marshall Street WRF	314A3180.1	235	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	186,856	8			
778	Marshall Street WRF	278A2080.1	234	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	201,020	8	PLAZA ST	2018	
779	Marshall Street WRF	278A1075.1	228	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	5	98,325	8			
780	Marshall Street WRF	305B6025.1	226	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	166,319	8			
781	Marshall Street WRF	269A4070.1	225	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			
782	Marshall Street WRF	278A2120.1	223	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	179,120	8	HART ST	2018	
783	Marshall Street WRF	252A2070.1	218	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	156,119	8			
784	Marshall Street WRF	314A3005.1	217	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	58,173	8			6/1/1964
785	Marshall Street WRF	277B7160.1	215	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	174,190	8	SPRUCE AVE	2018	
786	Marshall Street WRF	268B8135.1	212	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	182,344	8			
787	Marshall Street WRF	252A1105.1	209	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	135,173	8	PLATEAU RD	2019	
788	Marshall Street WRF	296A2050.1	207	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
789	Marshall Street WRF	306A1065.1	206	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	183,606	8			6/1/1983
790	Marshall Street WRF	251A2055.1	205	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	152,958	8	SEDEEVA ST	2023	6/1/1961
791	Marshall Street WRF	260A4035.1	200	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	150,129	8			
792	Marshall Street WRF	252A3040.1	200	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	59,513	8			6/1/1973
793	Marshall Street WRF	296A1090.1	200	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	164,541	8			
794	Marshall Street WRF	258B6020.1	197	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			2/3/2008
795	Marshall Street WRF	278A2115.1	196	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	162,413	8	HART ST	2018	
796	Marshall Street WRF	288A2165.1	195	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	PP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N-N	1	10,925	8			
797	Marshall Street WRF	252A1005.1	192	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	67,691	8	RIDGELANE RD	2019	
798	Marshall Street WRF	278A2155.1	190	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	LIN		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	3	81,282	8	VINE AVE	2018	
799	Marshall Street WRF	296A2080.1	190	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	5	93,955	8			
800	Marshall Street WRF	296B5050.1	185	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	115,699	8			6/1/1969
801	Marshall Street WRF	270A2020.1	185	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR'} >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	43,700	8			
802	Marshall Street WRF	268B7030.1	184	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	RCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	134,886	8	FAIRMONT ST	2022	
803	Marshall Street WRF	306B7065.1	184	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	139,746	8			
804	Marshall Street WRF	259B8090.1	178	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	145,848	8	SUNBURST CT	2022	
805	Marshall Street WRF	278B5035.1	177	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	130,687	8			
806	Marshall Street WRF	287B6150.1	176	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
807	Marshall Street WRF	278B6075.2	174	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	1	60,961	8	N PRESCOTT AVE	2018	6/1/1975
808	Marshall Street WRF	287A4005.1	170	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	136,294	8			
809	Marshall Street WRF	297A2005.1	170	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	110,795	8			
810	Marshall Street WRF	252A1070.1	168	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	124,822	8	RIDGELANE RD	2019	
811	Marshall Street WRF	279A4040.1	166	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	FRP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	2	42,416	10			
812	Marshall Street WRF	287A4040.1	166	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	123,763	8			
813	Marshall Street WRF	287B6090.1	165	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	60,525	8			
814	Marshall Street WRF	252A4115.1	164	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	51,519	8			6/1/1970
815	Marshall Street WRF	277B7025.1	162	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	112,185	10			
816	Marshall Street WRF	252A1055.1	159	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	104,323	8	S RIDGELANE CIR	2019	
817	Marshall Street WRF	269A2015.1	157	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	108,150	8			
818	Marshall Street WRF	287A4035.1	154	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	54,372	8			
819	Marshall Street WRF	314A3055.1	152	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	1	39,986	8			6/1/1966
820	Marshall Street WRF	279B6080.1	152	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	43,955	8			6/1/1963
821	Marshall Street WRF	259B7005.1	151	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	119,359	8	VENETIAN POINT DR	2022	
822	Marshall Street WRF	287B6050.1	151	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	93,936	8			
823	Marshall Street WRF	279A2145.1	146	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	136,203	8	ORANGEVIEW AVE	2020	
824	Marshall Street WRF	269A3195.1	143	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	109,442	8			
825	Marshall Street WRF	305B6020.1	140	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	107,611	8			
826	Marshall Street WRF	305B6010.1	140	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	112,226	8			
827	Marshall Street WRF	288A2010.1	137	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	90,782	8			
828	Marshall Street WRF	288A2120.1	137	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	148,217	8	DE LEON ST	2020	
829	Marshall Street WRF	306A4090.1	136	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	40,204	8			
830	Marshall Street WRF	252A4020.1	134	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	89,875	10			6/1/1970
831	Marshall Street WRF	252B5125.1	132	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	83,139	10			6/1/1986
832	Marshall Street WRF	252A2115.1	131	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	CAS		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	39,359	8	WILSON RD	2019	6/1/1962
833	Marshall Street WRF	252B5080.1	130	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	82,340	10			6/1/1978
834	Marshall Street WRF	268B8130.1	130	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	106,280	8			
835	Marshall Street WRF	277B7135.1	128	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	84,730	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
836	Marshall Street WRF	252B6065.1	127	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	38,451	8			6/1/1970
837	Marshall Street WRF	287B8100.1	125	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	92,721	8			6/1/1963
838	Marshall Street WRF	259B8075.1	124	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	102,344	8	SUNBURST CT	2022	
839	Marshall Street WRF	276A2070.1	123	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	CAS		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	3	36,753	8			4/30/2009
840	Marshall Street WRF	278A2050.1	122	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	PENNSYLVANIA AVE	2018	
841	Marshall Street WRF	296A2010.1	107	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	96,704	8			
842	Marshall Street WRF	259B8060.1	100	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	72,590	8	SUNBURST CT	2022	
843	Marshall Street WRF	314A4175.1	87	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	PVC		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR'} >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	32,775	8			9/26/2006
844	Marshall Street WRF	287B6010.1	84	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	PVC		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	54,625	8			
845	Marshall Street WRF	277B8075.1	69	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	43,575	10	JONES ST	2018	
846	Marshall Street WRF	296B8130.1	68	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	42,142	8	LOTUS PATH	2018	
847	Marshall Street WRF	252B6060.1	62	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	38,456	8			6/1/1961
848	Marshall Street WRF	296A2090.1	57	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	90,837	8			6/1/1983
849	Marshall Street WRF	268B8080.1	35	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			2/3/2008
850	Marshall Street WRF	259B7070.1	16	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	9,915	8	SUNSET DR	2022	
851	Marshall Street WRF	297A1020.1	339	Yes	4	1	4x1	Frequent Condition Evaluation	Point Repair and Lining	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	14	161,609	8			
852	Marshall Street WRF	297A1050.1	313	Yes	4	1	4x1	Frequent Condition Evaluation	Point Repair and Lining	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	15	166,679	8			
853	Marshall Street WRF	297A1030.1	308	Yes	4	1	4x1	Frequent Condition Evaluation	Point Repair and Lining	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	12	189,046	8			
854	Marshall Street WRF	252A1045.1	290	Yes	4	1	4x1	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	104,085	8			
855	Marshall Street WRF	297A1025.1	282	Yes	4	1	4x1	Frequent Condition Evaluation	Point Repair and Lining	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	129,031	8			
856	Marshall Street WRF	295B6005.1	224	Yes	4	1	4x1	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	164,516	8	ORANGE AVE	2020	
857	Marshall Street WRF	287B7075.1	458	Yes	3	4	3x4	Frequent Condition Evaluation	Point Repair and Lining	DIP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	135,653	24			
858	Marshall Street WRF	306A2040.1	346	Yes	3	4	3x4	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	260,918	12			
859	Marshall Street WRF	287B7020.1	328	Yes	3	4	3x4	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	75,003	8			
860	Marshall Street WRF	296A3165.1	269	Yes	3	4	3x4	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	15			
861	Marshall Street WRF	287B7190.1	29	Yes	3	4	3x4	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			5/9/2006
862	Marshall Street WRF	260A4015.1	586	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
863	Marshall Street WRF	296A4140.1	551	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	15			
864	Marshall Street WRF	295B8030.1	501	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	367,859	8			
865	Marshall Street WRF	260A3115.1	483	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	15	180,999	8			
866	Marshall Street WRF	296A1075.1	423	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	FRP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	103,350	10			
867	Marshall Street WRF	287B6200.1	415	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	106,262	8			
868	Marshall Street WRF	249B6020.1	408	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR'} >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	84,778	8			6/1/1969
869	Marshall Street WRF	258B8040.1	406	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	117,116	8			2/3/2008
870	Marshall Street WRF	276A2115.1	397	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	303,037	8			
871	Marshall Street WRF	249B6005.1	386	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	8	119,009	8			6/1/1969
872	Marshall Street WRF	279B5100.1	383	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	124,298	8			6/1/1965
873	Marshall Street WRF	258B5020.1	382	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	9	123,147	8			6/1/1969
874	Marshall Street WRF	295B8025.1	381	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	136,781	10			
875	Marshall Street WRF	277B7075.1	374	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	288,479	8			
876	Marshall Street WRF	269A2220.1	373	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	297,525	8			
877	Marshall Street WRF	314A2020.1	353	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	235,323	8			
878	Marshall Street WRF	287A4060.1	348	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	15	287,438	8			
879	Marshall Street WRF	296B6025.1	347	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	266,752	8			
880	Marshall Street WRF	252A4010.1	346	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	2	32,775	10	N HIGHLAND AVE	2019	
881	Marshall Street WRF	296B7010.1	343	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	70,503	10			2/3/2008
882	Marshall Street WRF	296A4050.1	342	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	LIN		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	23,239	15			
883	Marshall Street WRF	306A2030.1	341	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	95,048	8			
884	Marshall Street WRF	269A3140.1	340	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	15	282,514	8			
885	Marshall Street WRF	295B8080.1	339	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			
886	Marshall Street WRF	287A3015.1	332	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	232,240	8	N WASHINGTON AVE	2018	6/1/1961
887	Marshall Street WRF	314A3085.1	327	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	PVC		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	81,976	8			6/1/1966
888	Marshall Street WRF	258A4005.1	324	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			2/3/2008
889	Marshall Street WRF	276A1050.1	323	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	CAS		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	10			6/7/2008
890	Marshall Street WRF	276A1070.1	320	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	10			6/7/2008
891	Marshall Street WRF	286B7140.1	320	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	39,330	15	LAURA ST	2021	
892	Marshall Street WRF	258A1015.1	320	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	15	271,964	10	MANDALAY AVE	2021	6/1/1963
893	Marshall Street WRF	267A4035.1	312	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	219,421	8			
894	Marshall Street WRF	270A2025.1	307	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	0	-	8			
895	Marshall Street WRF	286B7175.1	305	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	215,124	8			
896	Marshall Street WRF	270B8080.1	303	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1973
897	Marshall Street WRF	285A3065.1	302	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	228,624	8			
898	Marshall Street WRF	258A2010.1	300	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	FRP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	11	115,305	8	MANDALAY AVE	2021	6/1/1963
899	Marshall Street WRF	285B5020.1	300	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	227,244	8			
900	Marshall Street WRF	251A3095.1	300	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	1	10,925	8	PLAZA DOLORES	2023	6/1/1969
901	Marshall Street WRF	251A1090.1	299	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	191,486	8	CHARLES ST	2023	6/1/1961
902	Marshall Street WRF	276A4010.1	298	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	220,821	8			
903	Marshall Street WRF	288A3025.1	297	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	9	110,459	8	N CREST AVE	2020	
904	Marshall Street WRF	276A2015.1	294	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12			2/27/2009
905	Marshall Street WRF	259B7015.1	288	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	5	82,710	8			6/1/1968
906	Marshall Street WRF	287B7145.1	288	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	11	112,703	8			
907	Marshall Street WRF	269B5060.1	287	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	PVC		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	98,357	8			11/23/2010
908	Marshall Street WRF	253A1045.1	287	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	191,118	10			6/1/1961
909	Marshall Street WRF	313B7085.1	286	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	213,364	8			6/1/1974
910	Marshall Street WRF	278A1120.1	282	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	226,085	8			
911	Marshall Street WRF	286B7030.1	281	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	15	GROVE ST	2021	
912	Marshall Street WRF	295B7708.1	281	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	71,965	8			
913	Marshall Street WRF	276A2160.1	280	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	194,928	8			
914	Marshall Street WRF	295B5005.1	280	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	214,833	8	PALM AVE	2020	6/1/1962
915	Marshall Street WRF	268B8120.1	280	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	229,698	8			
916	Marshall Street WRF	287B8050.1	277	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
917	Marshall Street WRF	288A3115.1	276	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8	N CREST AVE	2020	
918	Marshall Street WRF	251A2010.1	273	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	70,254	8	CHARLES ST	2023	6/1/1964
919	Marshall Street WRF	253A2080.1	266	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	57,821	8			
920	Marshall Street WRF	296A1020.1	261	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	202,717	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
921	Marshall Street WRF	268B8025.1	260	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	XXX		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
922	Marshall Street WRF	269A2230.1	259	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	92,185	8			
923	Marshall Street WRF	287B5025.1	250	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	LIN		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	34,960	8	KENWOOD AVE	2021	
924	Marshall Street WRF	270A1125.1	239	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	189,274	8			
925	Marshall Street WRF	286B7085.1	236	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	202,505	8	LAURA ST	2021	
926	Marshall Street WRF	279B6005.1	226	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	166,293	8			6/1/1963
927	Marshall Street WRF	242A2085.1	224	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	2	32,775	8			6/1/1970
928	Marshall Street WRF	287A4085.1	222	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	168,593	8			
929	Marshall Street WRF	268B8015.1	218	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	141,069	8			
930	Marshall Street WRF	253A1015.1	214	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	1	21,850	10			6/1/1962
931	Marshall Street WRF	270B6060.1	214	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	77,382	8	MACRAE AVE	2018	6/1/1968
932	Marshall Street WRF	269A2205.1	213	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	142,754	8			
933	Marshall Street WRF	260A4010.1	210	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	170,964	8			
934	Marshall Street WRF	260A4020.1	208	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	71,153	8			
935	Marshall Street WRF	288A2180.1	207	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	134,112	8			
936	Marshall Street WRF	269A4010.1	207	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1968
937	Marshall Street WRF	269A2235.1	194	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	141,226	8			
938	Marshall Street WRF	252A4035.1	192	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	126,103	10			6/1/1970
939	Marshall Street WRF	269B5095.1	190	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	89,179	30			
940	Marshall Street WRF	267A3065.1	183	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	6	64,740	8			
941	Marshall Street WRF	253A2100.1	178	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	38,634	8			
942	Marshall Street WRF	313B8010.1	178	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	135,814	8			6/1/1964
943	Marshall Street WRF	313B7025.1	176	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8			6/1/1973
944	Marshall Street WRF	287A2155.1	172	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	PVC		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	53,355	8			
945	Marshall Street WRF	267A3030.1	168	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	105,081	8	MANDALAY AVE	2021	
946	Marshall Street WRF	251B7075.1	168	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	114,733	8	KINGS HWY	2019	6/1/1965
947	Marshall Street WRF	278A1015.1	160	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	119,648	8			
948	Marshall Street WRF	286B6140.2	158	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	XXX		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	5	54,365	8			
949	Marshall Street WRF	305B7065.1	149	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	97,719	8			6/1/1983
950	Marshall Street WRF	286B5040.1	145	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	95,557	8			
951	Marshall Street WRF	296B5130.1	140	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	2	35,431	8			6/1/1965
952	Marshall Street WRF	313B8015.1	136	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	PVC		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	37,145	8			6/1/1964
953	Marshall Street WRF	288A2160.1	132	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	1	43,044	8			
954	Marshall Street WRF	276A2095.1	115	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	76,821	8			12/1/2008
955	Marshall Street WRF	258B6015.1	109	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	68,215	8			6/1/1965
956	Marshall Street WRF	260A3035.1	94	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	78,426	8			6/1/1980
957	Marshall Street WRF	278A1010.1	60	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	37,756	8			
958	Marshall Street WRF	287A1110.1	45	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15	PARK ST	2021	
959	Marshall Street WRF	278A1155.1	39	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	PENNSYLVANIA AVE	2018	
960	Marshall Street WRF	287B5150.1	39	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	17,917	8	GROVE ST	2021	
961	Marshall Street WRF	287A1105.1	38	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	1	23,805	8	PARK ST	2021	
962	Marshall Street WRF	287A2035.1	33	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	20,299	8			
963	Marshall Street WRF	278A1125.1	29	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	21,376	21	NA	2018	6/1/1997
964	Marshall Street WRF	287B7050.1	25	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	1	29,061	8			
965	Marshall Street WRF	296A2085.1	497	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	149,008	8			6/1/1983
966	Marshall Street WRF	259B8015.1	484	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8	SUNSET DR	2022	
967	Marshall Street WRF	268B7015.1	476	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8	SUNSET DR	2022	
968	Marshall Street WRF	259B8010.1	453	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	76,475	8	SUNSET DR	2022	
969	Marshall Street WRF	267A4005.1	413	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	287,755	8			6/7/2008
970	Marshall Street WRF	252A4095.1	406	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	124,230	8			
971	Marshall Street WRF	306B5040.1	402	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	295,593	8			6/1/1962
972	Marshall Street WRF	249B5025.1	401	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	9	127,197	8			6/1/1969
973	Marshall Street WRF	252A3005.1	399	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	309,288	8			6/1/1973
974	Marshall Street WRF	306B5035.1	399	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	190,095	8			6/1/1962
975	Marshall Street WRF	276A3005.1	397	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	283,062	8			
976	Marshall Street WRF	249B6035.1	396	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	291,920	8			6/1/1969
977	Marshall Street WRF	252A1030.1	394	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	13	151,578	8			
978	Marshall Street WRF	252B5145.1	393	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1986
979	Marshall Street WRF	252A3020.1	391	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	11	140,899	8			6/1/1973
980	Marshall Street WRF	295B6040.1	390	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	9	124,817	8			
981	Marshall Street WRF	269A2070.1	388	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	16	317,005	8			6/1/1974
982	Marshall Street WRF	278B5055.1	379	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	286,644	8			
983	Marshall Street WRF	259B7015.1	378	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	295,929	8	VENETIAN POINT DR	2022	
984	Marshall Street WRF	276B6005.1	375	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	5	180,918	8			
985	Marshall Street WRF	251A2115.1	372	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	267,065	8			6/1/1964
986	Marshall Street WRF	306A4130.1	367	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	8	167,152	8			
987	Marshall Street WRF	249A3070.1	365	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is Yes	Y-Y-N-N-N-N-N-N-N-Y	1	82,053	10	LANTANA AVE	2021	6/7/2008
988	Marshall Street WRF	278A3015.1	364	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	90,081	8			6/1/1975
989	Marshall Street WRF	296B5185.1	362	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	261,031	8			
990	Marshall Street WRF	288A2175.1	360	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	1	10,925	8			
991	Marshall Street WRF	314A2025.1	355	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
992	Marshall Street WRF	252A4060.1	351	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	253,840	8			6/1/1961
993	Marshall Street WRF	279A4075.1	349	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	11	131,735	8			
994	Marshall Street WRF	296B6090.1	348	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	16	292,190	8			
995	Marshall Street WRF	287B6060.1	347	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	106,497	8			
996	Marshall Street WRF	314A3045.1	346	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	261,035	8			6/1/1966
997	Marshall Street WRF	252B6110.1	345	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	110,937	8			6/1/1970
998	Marshall Street WRF	278A1020.2	345	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			
999	Marshall Street WRF	278A2130.1	340	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8	JONES ST	2018	
1000	Marshall Street WRF	270A2015.1	340	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	8	109,033	8			
1001	Marshall Street WRF	277B8130.1	339	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	241,804	8	JONES ST	2018	

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
1002	Marshall Street WRF	287B6125.1	338	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
1003	Marshall Street WRF	297A1095.1	338	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	43,700	8			
1004	Marshall Street WRF	296B8110.1	337	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	235,492	8			
1005	Marshall Street WRF	314A3075.1	336	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	259,498	8			6/1/1966
1006	Marshall Street WRF	295B8090.1	336	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]["RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	32,775	8			6/1/1983
1007	Marshall Street WRF	278A2060.1	333	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[Count of Defects]["Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	75,879	8	PLAZA ST	2018	
1008	Marshall Street WRF	297A1070.1	330	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[Number of Rehabilitations]["RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	1	10,925	8			
1009	Marshall Street WRF	278A2135.1	329	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	270,105	8	VINE AVE	2018	
1010	Marshall Street WRF	251A2040.1	328	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	LIN		[Count of Defects]["Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8			6/1/1961
1011	Marshall Street WRF	253A1030.1	326	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]["Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8	DAWN DR	2019	6/1/1968
1012	Marshall Street WRF	252B6120.1	320	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	229,816	8			6/1/1970
1013	Marshall Street WRF	261B8045.1	316	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	119,765	8			6/1/1963
1014	Marshall Street WRF	278B5050.1	315	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	241,707	8			
1015	Marshall Street WRF	277B8090.1	313	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	225,515	8	N GARDEN AVE	2018	
1016	Marshall Street WRF	252B6080.1	310	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	103,311	8			6/1/1961
1017	Marshall Street WRF	296B8140.1	309	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]["Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	4	82,260	8			
1018	Marshall Street WRF	267A3035.1	309	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	237,723	8			
1019	Marshall Street WRF	297A1080.1	306	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
1020	Marshall Street WRF	288A3065.1	304	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	249,804	8	LAURA ST	2020	
1021	Marshall Street WRF	259B8020.1	304	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	126,075	8	LEBEAU ST	2022	
1022	Marshall Street WRF	278A4075.1	304	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	JACKSON RD	2018	6/1/1975
1023	Marshall Street WRF	259B8035.1	302	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	208,716	8	SUNSET DR	2022	6/1/1966
1024	Marshall Street WRF	249A3020.1	302	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	57,684	8	LANTANA AVE	2021	6/1/1961
1025	Marshall Street WRF	288A2170.1	301	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[Number of Rehabilitations]["RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	2	32,775	8			
1026	Marshall Street WRF	276A4045.1	301	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]["RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	32,775	8			
1027	Marshall Street WRF	260A4070.1	300	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
1028	Marshall Street WRF	278B6115.1	299	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	241,833	8	N PRESCOTT AVE	2018	6/1/1975
1029	Marshall Street WRF	285A3110.1	299	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	FRP		[Count of Defects]["Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	4	80,042	8			6/7/2008
1030	Marshall Street WRF	296B8080.1	299	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	226,463	8	MARK DR	2018	
1031	Marshall Street WRF	276A1055.1	299	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
1032	Marshall Street WRF	252A3075.1	298	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	9	110,771	8			6/1/1973
1033	Marshall Street WRF	270A3130.1	296	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	234,731	8	WOOD AVE	2018	
1034	Marshall Street WRF	277B5025.1	290	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	226,276	8	N OSCEOLA AVE	2018	
1035	Marshall Street WRF	258B6040.1	290	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	211,092	8			6/1/1965
1036	Marshall Street WRF	306A4050.1	288	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	214,834	8			
1037	Marshall Street WRF	288A1125.1	288	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-N-Y	9	102,575	8	PARK ST	2020	
1038	Marshall Street WRF	252B6085.1	287	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1961
1039	Marshall Street WRF	306A4045.1	286	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	84,559	8			
1040	Marshall Street WRF	277B7155.1	285	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8	N GARDEN AVE	2018	
1041	Marshall Street WRF	276B6010.1	285	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	212,784	8			
1042	Marshall Street WRF	278B6040.1	285	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	5	98,325	8	N PRESCOTT AVE	2018	6/1/1975
1043	Marshall Street WRF	253A1115.1	284	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	194,684	8	SETON DR	2019	2/3/2008
1044	Marshall Street WRF	314A4005.1	284	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	222,035	8			
1045	Marshall Street WRF	278A2140.1	283	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	206,586	8	PENNSYLVANIA AVE	2018	
1046	Marshall Street WRF	278B6060.1	281	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	220,684	8	JACKSON RD	2018	6/1/1975
1047	Marshall Street WRF	277B7120.1	281	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
1048	Marshall Street WRF	314A4085.1	281	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]["Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	128,478	8			6/1/1970
1049	Marshall Street WRF	249A1015.1	278	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	81,294	8	MANDALAY AVE	2021	6/1/1963
1050	Marshall Street WRF	295B5080.1	277	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	202,717	8	BAY AVE	2020	
1051	Marshall Street WRF	253A1020.1	276	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	90,990	8			
1052	Marshall Street WRF	278B6065.1	275	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	186,816	8	JACKSON RD	2018	6/1/1975
1053	Marshall Street WRF	279B6015.1	274	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	PVC		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	95,610	8			6/1/1963
1054	Marshall Street WRF	295B5050.1	271	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	204,208	8	ORANGE AVE	2020	
1055	Marshall Street WRF	278A4020.1	271	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	46,361	8	NA	2018	6/1/1975
1056	Marshall Street WRF	306B5010.1	267	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	181,854	8			6/1/1962
1057	Marshall Street WRF	314A3040.1	263	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	184,000	8			6/1/1966
1058	Marshall Street WRF	277B8005.1	261	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	212,653	8	N GARDEN AVE	2018	
1059	Marshall Street WRF	296B6075.1	260	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	192,538	8			
1060	Marshall Street WRF	260B6010.1	250	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	191,117	8			6/1/1974
1061	Marshall Street WRF	251A2090.1	250	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	191,036	8			6/1/1964
1062	Marshall Street WRF	252A4140.1	249	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	155,581	8			6/1/1970
1063	Marshall Street WRF	286B8105.1	248	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	151,330	10	FRANKLIN ST	2021	
1064	Marshall Street WRF	261A1130.1	248	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	179,651	8			6/1/1963
1065	Marshall Street WRF	306B7070.1	245	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	188,001	8			
1066	Marshall Street WRF	268B7050.1	245	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	MARSHALL ST	2022	6/7/2008
1067	Marshall Street WRF	252A4100.1	240	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	169,951	8			6/1/1970
1068	Marshall Street WRF	278A4105.1	239	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	199,330	8	NA	2018	6/1/1975
1069	Marshall Street WRF	259B8055.1	238	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	125,200	8	PLEASANT ST	2022	
1070	Marshall Street WRF	252B6105.1	237	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	87,402	8			6/1/1970
1071	Marshall Street WRF	296B6015.1	232	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	174,570	8			
1072	Marshall Street WRF	314B6035.1	230	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]["Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	54,625	8			6/1/1969
1073	Marshall Street WRF	306A4075.1	230	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
1074	Marshall Street WRF	276A3010.1	226	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	175,952	8			
1075	Marshall Street WRF	270B5015.1	226	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	65,550	8			
1076	Marshall Street WRF	314A3020.1	224	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	165,074	8			
1077	Marshall Street WRF	269A1160.1	221	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	81,719	8			
1078	Marshall Street WRF	252B7110.1	219	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	PVC		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	35,179	8			6/1/1961
1079	Marshall Street WRF	259B7075.1	219	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	76,475	8	SUNSET DR	2022	
1080	Marshall Street WRF	306B5045.1	218	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	156,244	8			6/1/1962
1081	Marshall Street WRF	288A2050.1	218	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	78,286	8			
1082	Marshall Street WRF	269A1165.1	218	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
1083	Marshall Street WRF	314A3095.1	215	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	169,364	8			6/1/1966
1084	Marshall Street WRF	278A1145.1	214	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	77,422	8			6/1/1975
1085	Marshall Street WRF	270A3120.1	213	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	FRP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-N-Y	6	71,341	8	WOOD AVE	2018	
1086	Marshall Street WRF	269A1155.1	212	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	125,200	8			
1087	Marshall Street WRF	286B5030.1	204	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	157,546	8			
1088	Marshall Street WRF	295B5115.1	203	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	70,138	8	OAK AVE	2020	
1089	Marshall Street WRF	288A1050.1	202	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	140,766	8	LAURA ST	2020	6/1/1967
1090	Marshall Street WRF	252A3035.1	201	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	54,656	8			6/1/1973
1091	Marshall Street WRF	238A3085.1	200	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	139,976	8	BAY ESPLANADE	2021	2/3/2008
1092	Marshall Street WRF	260A2165.1	200	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	LIN		[Count of Defects]["Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	74,511	8	APACHE TRL	2022	

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
1093	Marshall Street WRF	287B6160.1	200	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	6	68,413	8			
1094	Marshall Street WRF	287B6045.1	199	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	144,425	8			
1095	Marshall Street WRF	238A4045.1	197	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-Y-N-Y-N	1	10,925	8	BAY ESPLANADE	2021	2/3/2008
1096	Marshall Street WRF	314A3155.1	196	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	142,480	8			6/1/1961
1097	Marshall Street WRF	287B8095.1	193	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
1098	Marshall Street WRF	251A2030.1	192	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	129,867	8	CHARLES ST	2023	6/1/1961
1099	Marshall Street WRF	314A3165.1	191	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	144,297	8			6/1/1981
1100	Marshall Street WRF	306B7085.1	191	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	134,175	8			
1101	Marshall Street WRF	287B5155.1	190	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	158,821	8			
1102	Marshall Street WRF	314A3025.1	188	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	152,554	8			
1103	Marshall Street WRF	296B5145.1	179	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	54,911	8			
1104	Marshall Street WRF	259B8085.1	172	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	142,353	8	SUNSET DR	2022	
1105	Marshall Street WRF	314A3135.1	170	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	1	13,110	8			9/26/2006
1106	Marshall Street WRF	251A3125.1	170	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	121,104	8	WILSON BLVD	2023	6/1/1964
1107	Marshall Street WRF	278A4115.1	168	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	47,487	8			6/1/1975
1108	Marshall Street WRF	277B5005.1	168	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	32,775	8			
1109	Marshall Street WRF	278A2075.1	166	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	123,608	8	HART ST	2018	
1110	Marshall Street WRF	269B7125.1	164	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	47,918	10			
1111	Marshall Street WRF	295B5075.1	161	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	130,733	8	BAY AVE	2020	
1112	Marshall Street WRF	269A2190.1	160	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	119,947	8			6/1/1969
1113	Marshall Street WRF	259B7035.1	160	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	114,870	8	VENETIAN POINT DR	2022	
1114	Marshall Street WRF	260B8080.1	157	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	DIP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	97,926	8			6/1/1987
1115	Marshall Street WRF	252B6030.1	151	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	1	10,925	8			6/1/1970
1116	Marshall Street WRF	252B6035.1	151	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	48,771	8			6/1/1961
1117	Marshall Street WRF	287B6145.1	151	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
1118	Marshall Street WRF	288A2115.1	149	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	54,625	8			
1119	Marshall Street WRF	268B7060.1	147	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
1120	Marshall Street WRF	261B6080.1	139	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	1	10,925	8			6/1/1959
1121	Marshall Street WRF	306A4095.1	130	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	86,120	8			
1122	Marshall Street WRF	259B7025.1	127	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	104,256	8	VENETIAN POINT DR	2022	
1123	Marshall Street WRF	268B8035.1	126	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	LIN		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
1124	Marshall Street WRF	252A2045.1	120	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	95,019	8	BYRAM DR	2019	
1125	Marshall Street WRF	251A2060.1	112	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	79,853	8			6/1/1964
1126	Marshall Street WRF	252B5100.1	110	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	42,826	10			6/1/1986
1127	Marshall Street WRF	253A1090.1	108	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	72,344	8	DAWN DR	2019	6/1/1960
1128	Marshall Street WRF	306A4160.1	102	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	33,168	8			6/1/1966
1129	Marshall Street WRF	270B5010.1	97	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-Y-N-Y	1	21,117	8	RIDGE AVE	2018	
1130	Marshall Street WRF	287A4045.1	95	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	69,218	8			
1131	Marshall Street WRF	278A3020.1	65	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	1	40,569	8			6/1/1975
1132	Marshall Street WRF	286B7215.1	53	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	47,643	8	PARK ST	2021	
1133	Marshall Street WRF	296B6105.1	51	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	CAS		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-Y-N-Y	2	16,105	8			
1134	Marshall Street WRF	314A3015.1	37	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	22,908	8			
1135	Marshall Street WRF	251A2020.1	30	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	18,724	8	CHARLES ST	2023	6/1/1964
1136	Marshall Street WRF	306A4110.1	25	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	15,683	8			
1137	Marshall Street WRF	306A2045.1	309	Yes	2	4	2x4	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	232,045	12			
1138	Marshall Street WRF	278B7045.1	249	Yes	2	4	2x4	Frequent Condition Evaluation	Point Repair and Lining	FRP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	184,366	30			
1139	Marshall Street WRF	269B6030.1	200	Yes	2	4	2x4	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	48,416	30			
1140	Marshall Street WRF	296B8010.1	120	Yes	2	4	2x4	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	37,029	8	MARK DR	2018	
1141	East WRF	291B8080.1	217	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	142,257	10			6/1/1974
1142	East WRF	298B6110.1	320	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	229,995	8			6/1/1962
1143	East WRF	297A3075.1	156	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	102,591	8	S GLENWOOD AVE	2021	
1144	East WRF	290B6085.1	277	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	218,110	8			6/1/1964
1145	East WRF	288B8090.1	377	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	275,319	8			
1146	East WRF	299A2020.1	305	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	220,653	8			6/1/1970
1147	East WRF	317A1020.1	301	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	197,880	8			6/1/1968
1148	East WRF	314B8030.1	290	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	206,037	8			
1149	East WRF	274B8005.1	44	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	27,734	8			6/1/1963
1150	East WRF	298B5080.1	206	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	148,555	8			6/1/1966
1151	East WRF	315B6015.1	333	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	247,690	8			6/1/1969
1152	East WRF	298B8125.1	113	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	85,738	8			
1153	East WRF	290B6075.1	282	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	205,814	8			6/1/1964
1154	East WRF	297A2160.1	205	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	133,138	8			
1155	East WRF	297A3035.1	275	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	221,884	8	S GLENWOOD AVE	2021	
1156	East WRF	297B7135.1	343	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	264,074	8	PHOENIX AVE	2021	
1157	East WRF	298B5060.1	234	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	156,057	8			6/1/1966
1158	East WRF	316B5075.1	369	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	270,543	8	AMBASSADOR DR	2020	6/1/1963
1159	East WRF	308B8005.1	324	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	202,459	8			6/1/1963
1160	East WRF	298B7035.1	252	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	197,014	8			
1161	East WRF	299A4130.1	252	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	172,022	8	FLUSHING AVE	2019	6/1/1963
1162	East WRF	316B5015.1	340	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	246,974	8	S HERCULES AVE	2020	6/1/1963
1163	East WRF	297A2070.1	226	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	166,226	8	JASMINE WAY	2018	
1164	East WRF	297A2130.1	185	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	140,550	8	E LOTUS PATH	2018	
1165	East WRF	316B5040.1	293	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	217,829	8	ATTACHE CT	2020	6/1/1965
1166	East WRF	307A3070.1	317	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	213,059	8			6/1/1970
1167	East WRF	298B6130.1	229	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	172,696	8			6/1/1962
1168	East WRF	296B8100.1	197	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	133,034	8	S HILLCREST AVE	2018	
1169	East WRF	306B8100.1	141	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	88,207	8			
1170	East WRF	307B5065.1	253	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	182,689	8			
1171	East WRF	297A2030.1	140	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	102,386	8			
1172	East WRF	307A1170.1	319	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	239,185	8			
1173	East WRF	298B5020.1	374	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	268,443	8			
1174	East WRF	298A1035.1	298	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	215,926	8	VIRGINIA LN	2021	
1175	East WRF	298B5110.1	251	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	186,662	8			
1176	East WRF	307B5040.1	184	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	129,884	8			
1177	East WRF	298B7050.1	340	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	257,208	8			
1178	East WRF	298B5070.1	236	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	CT	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	177,437	8			6/1/1966
1179	East WRF	306B6100.1	319	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	239,179	8			6/1/1971
1180	East WRF	297A2075.1	195	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	146,474	8	E MAGNOLIA ST	2018	
1181	East WRF	297A2135.1	265	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	190,400	8	E LOTUS PATH	2018	
1182	East WRF	307A2045.1	368	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	274,493	8			6/1/1962
1183	East WRF	314B8070.1	266	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	185,761	8			6/1/1961
1184	East WRF	315A2010.1	184	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	139,836	8			6/1/1961
1185	East WRF	306B8110.1	351	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	253,996	8			
1186	East WRF	314B6040.1	302	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	218,214	8			
1187	East WRF	299A4135.1	40	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	25,268	8			6/1/1970
1188	East WRF	299B5025.1	302	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	228,772	8			
1189	East WRF	315A2055.1	390	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	CAS	CAS	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	268,425	8			6/1/1961

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
1190	East WRF	297A3040.1	166	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	123,492	8	S GLENWOOD AVE	2021	
1191	East WRF	299A2045.1	316	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	207,170	8			6/1/1970
1192	East WRF	306B7195.1	277	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	187,703	8			6/1/1973
1193	East WRF	283A3050.1	211	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	151,560	8	SAN BERNADINO ST	2019	6/1/1965
1194	East WRF	296B8055.1	219	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	166,765	8	S HILLCREST AVE	2018	
1195	East WRF	314B7090.1	30	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	18,414	8			
1196	East WRF	297A2090.1	301	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	227,946	8			
1197	East WRF	290A4040.1	262	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	173,818	8			6/1/1961
1198	East WRF	290B6015.1	315	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	241,827	8			6/1/1964
1199	East WRF	309B7035.1	283	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	201,323	8			6/1/1980
1200	East WRF	290B6045.1	381	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	267,720	8			6/1/1964
1201	East WRF	314B7015.1	272	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	185,026	8			6/1/1961
1202	East WRF	316B5095.1	356	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	252,469	8			6/1/1965
1203	East WRF	297B7035.1	246	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	193,391	8	PHOENIX AVE	2021	
1204	East WRF	307B8025.1	355	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	251,504	8			6/1/1971
1205	East WRF	288B5070.1	332	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	10	252,321	8			6/1/1962
1206	East WRF	308B7015.1	501	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	312,780	8	HARN BLVD	2019	6/1/1963
1207	East WRF	309B7025.1	99	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	86,927	8			6/1/1980
1208	East WRF	296B8175.1	303	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	224,253	8			
1209	East WRF	315B6020.1	264	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	194,588	8			6/1/1969
1210	East WRF	289B6010.1	221	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	152,952	8			
1211	East WRF	316B7085.1	299	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	211,346	8			6/1/1971
1212	East WRF	290B6005.1	197	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	147,781	8			6/1/1964
1213	East WRF	290B6070.1	388	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	277,175	8			6/1/1964
1214	East WRF	297B6135.1	312	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	194,689	8			6/1/1967
1215	East WRF	298B5100.1	211	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	151,593	8			6/1/1966
1216	East WRF	289A1100.1	316	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	217,229	8			
1217	East WRF	317A1040.1	248	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	174,509	8			6/1/1968
1218	East WRF	298A2045.1	374	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	273,429	8			6/1/1962
1219	East WRF	290B6010.1	192	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	139,862	8			6/1/1964
1220	East WRF	299B5085.1	241	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	150,553	8			6/1/1962
1221	East WRF	315B6030.1	376	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	284,772	8			
1222	East WRF	297A4105.1	278	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	173,778	8			
1223	East WRF	298B5065.1	202	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	151,265	8			6/1/1966
1224	East WRF	309A1015.1	333	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	222,955	8	GLENMOOR RD N	2019	6/1/1962
1225	East WRF	297B5030.1	290	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	221,221	8	S DUNCAN AVE	2021	
1226	East WRF	297B7130.1	232	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	174,754	8	MARION ST	2021	
1227	East WRF	289B5025.1	391	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	288,879	8			
1228	East WRF	289A3035.1	377	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	270,561	8			
1229	East WRF	289A4030.1	276	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	212,351	8			
1230	East WRF	289A3075.1	359	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-N-Y-Y-N	9	264,240	8			
1231	East WRF	309B7070.1	386	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	261,133	8			6/1/1980
1232	East WRF	309B7095.1	163	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	106,549	8			6/1/1981
1233	East WRF	314B7140.1	310	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	238,190	8			
1234	East WRF	314B8060.1	138	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	FRP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	2	90,986	8			
1235	East WRF	314B7175.1	328	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	239,895	8			
1236	East WRF	314B8010.1	355	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	221,552	8			
1237	East WRF	314B8045.1	109	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	68,026	8			
1238	East WRF	315B8090.1	235	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	196,643	8			
1239	East WRF	297B5020.1	230	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	193,413	8	YELVINGTON AVE	2021	
1240	East WRF	307A1075.1	60	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	42,295	8			
1241	East WRF	307A1165.1	264	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	204,592	8			
1242	East WRF	307A1085.1	103	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	64,001	8			
1243	East WRF	307A1090.1	118	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	78,400	8			
1244	East WRF	307A1065.1	240	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	209,515	8			
1245	East WRF	307A1140.1	311	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	234,315	8			
1246	East WRF	307A1155.1	352	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	269,940	8			
1247	East WRF	307A1110.1	62	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	38,977	8			
1248	East WRF	307A1160.1	404	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	312,336	8			
1249	East WRF	297B7100.1	255	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	189,281	8	PLUMOSA AVE	2021	
1250	East WRF	297B7065.1	249	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	195,658	8	TURNER ST	2021	
1251	East WRF	297B5090.1	348	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	242,512	8	MARION ST	2021	
1252	East WRF	289B5080.1	370	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	276,032	8			
1253	East WRF	306B7060.1	256	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	189,855	8			
1254	East WRF	299B5060.1	284	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	232,314	8			
1255	East WRF	307B5055.1	240	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-Y-N-Y	6	77,114	8			
1256	East WRF	314B5020.1	310	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	LIN		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	8	102,371	8			
1257	East WRF	307B7010.1	454	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	8	133,685	8			
1258	East WRF	298B6125.1	330	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	9	111,704	8			6/1/1962
1259	East WRF	280A2115.1	280	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	60,961	8			
1260	East WRF	297B5005.1	277	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	PVC		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	7	90,180	8	S DUNCAN AVE	2021	
1261	East WRF	292A2030.1	299	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	PVC		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	7	95,035	8			6/1/1981
1262	East WRF	299B5075.1	42	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	9,240	8			
1263	East WRF	280A2010.1	242	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	110,501	8			
1264	East WRF	309B6035.1	279	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	XXX		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	138,676	8	MORELAND DR	2019	6/1/1966
1265	East WRF	290A4070.1	329	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	122,503	8			6/1/1964
1266	East WRF	316B5060.1	334	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	123,511	8			6/1/1965
1267	East WRF	297A2170.1	281	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	85,406	8			
1268	East WRF	298B5075.1	235	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	77,075	8			6/1/1966
1269	East WRF	296B8095.1	303	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	106,929	8	S HILLCREST AVE	2018	
1270	East WRF	316B5055.1	295	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	100,180	8	EMBASSY DR	2020	6/1/1965
1271	East WRF	316B5020.1	256	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	86,669	8			6/1/1965
1272	East WRF	298B5095.1	143	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	52,059	8			6/1/1966
1273	East WRF	299A4120.1	225	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	79,842	8	CHINABERRY RD	2019	6/1/1963
1274	East WRF	309A3050.1	330	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	122,786	8	FLUSHING AVE	2019	6/1/1963
1275	East WRF	290A2065.1	341	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	125,137	8			6/1/1964
1276	East WRF	308B5020.1	256	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	83,707	8			6/1/1962
1277	East WRF	298B5050.1	162	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	46,094	8			
1278	East WRF	309A3025.1	247	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	79,590	8	GLENMOOR RD N	2019	6/1/1963

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
1279	East WRF	290A4065.1	364	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	FRP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	12	140,146	8			6/1/1964
1280	East WRF	309A4055.1	310	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	98,395	8	RANCHWOOD DR	2019	6/1/1965
1281	East WRF	314B8035.1	255	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	87,239	8			6/1/1961
1282	East WRF	290A2060.1	331	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	112,920	8			6/1/1963
1283	East WRF	299A4125.1	270	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	89,745	8	CHINABERRY RD	2019	6/1/1963
1284	East WRF	283B5020.1	319	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	DIP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	110,335	8	MAXIMO AVE	2019	6/1/1965
1285	East WRF	296B8135.1	303	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	106,848	8	S HILLCREST AVE	2018	
1286	East WRF	309B5105.1	396	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	102,022	8			6/1/1980
1287	East WRF	306B8095.1	139	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	41,109	8			
1288	East WRF	309B7030.1	398	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	139,349	8			6/1/1980
1289	East WRF	297A4125.1	197	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	58,800	8			
1290	East WRF	309B7085.1	256	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	76,567	8			6/1/1980
1291	East WRF	298B6070.1	214	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	67,524	8			6/1/1962
1292	East WRF	309A1010.1	385	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	114,686	8	GLENMOOR RD N	2019	6/1/1962
1293	East WRF	309B7090.1	253	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	75,868	8			6/1/1980
1294	East WRF	307A1220.1	409	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	99,832	8			
1295	East WRF	306B8195.1	352	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	108,512	8			
1296	East WRF	289B5045.1	380	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	84,700	8			
1297	East WRF	306B7125.1	243	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8			6/1/1969
1298	East WRF	315A2005.1	290	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	PVC		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	54,625	8			6/1/1988
1299	East WRF	298B7010.1	156	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
1300	East WRF	314B6045.1	420	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	FRP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	76,475	8			
1301	East WRF	306B6030.1	351	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	154,479	8			6/1/1970
1302	East WRF	315B6055.1	372	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	105,809	8			
1303	East WRF	297B5100.1	248	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	53,909	8	S KEYSTONE AVE	2021	
1304	East WRF	309B7065.1	393	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8			6/1/1980
1305	East WRF	308A3025.1	357	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	54,625	8			6/1/1962
1306	East WRF	306B7115.1	278	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	36,053	8			6/1/1969
1307	East WRF	280A2025.1	133	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
1308	East WRF	308B5045.1	328	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1962
1309	East WRF	309B7075.1	393	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	50,100	8			6/1/1980
1310	East WRF	290A4035.1	374	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	76,475	8			6/1/1962
1311	East WRF	306B8130.1	305	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	80,845	8			
1312	East WRF	289A4035.1	263	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	154,916	8			
1313	East WRF	289B5005.1	368	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	5	233,358	8			
1314	East WRF	289B5075.1	365	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	5	155,354	8			
1315	East WRF	289B5085.1	370	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
1316	East WRF	289A3005.1	371	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8			
1317	East WRF	298A1050.1	287	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	VIRGINIA LN	2021	6/1/1962
1318	East WRF	307B7040.1	366	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	FRP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	6	148,362	8			6/7/2008
1319	East WRF	315A2040.1	204	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8			6/1/1980
1320	East WRF	306B7170.1	183	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	78,660	8			6/1/1969
1321	East WRF	306B7110.1	300	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
1322	East WRF	297B7025.1	268	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	30,590	8	PLUMOSA AVE	2021	
1323	East WRF	289B5030.1	381	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	8	291,260	8			
1324	East WRF	298B7015.1	39	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	21,850	8			10/28/2013
1325	East WRF	307A1180.1	28	Yes	4	1	4x1	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	22,392				6/1/2008
1326	East WRF	307A1180.1	81	Yes	4	1	4x1	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	55,790	8			
1327	East WRF	297A2050.1	273	Yes	4	1	4x1	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	195,550	8			
1328	East WRF	298B8135.1	360	Yes	4	1	4x1	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	249,387	8			
1329	East WRF	283A3005.1	305	Yes	4	1	4x1	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	240,137	8	SAN JOSE ST	2019	6/1/1965
1330	East WRF	298B8080.1	443	Yes	4	1	4x1	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	331,551	8			
1331	East WRF	298B8110.1	142	Yes	4	1	4x1	Frequent Condition Evaluation	Lining	XXX		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	2	35,975	8			
1332	East WRF	298B8050.1	260	Yes	4	1	4x1	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	93,310	8			
1333	East WRF	298B8035.1	389	Yes	4	1	4x1	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	135,601	8			
1334	East WRF	298B8060.1	138	Yes	4	1	4x1	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	1	10,925	8			
1335	East WRF	308A3135.1	282	Yes	3	4	3x4	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	190,414	15			6/1/1967
1336	East WRF	301A3025.1	123	Yes	3	4	3x4	Frequent Condition Evaluation	Lining	LIN		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	47,315	30			6/1/1963
1337	East WRF	298A4075.1	327	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	225,162	18			6/1/1963
1338	East WRF	307A3010.1	368	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	245,436	12			6/1/1983
1339	East WRF	297A4095.1	284	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	217,013	8			
1340	East WRF	315B7035.1	302	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	223,502	8			6/1/1980
1341	East WRF	298A4035.1	277	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	202,587	8			6/1/1962
1342	East WRF	316B8005.1	379	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	241,565	8			6/1/1966
1343	East WRF	297A3010.1	320	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	239,493	8	S CREST AVE	2021	
1344	East WRF	297A3070.1	394	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	CT	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	270,841	8	TURNER ST	2021	
1345	East WRF	297B7090.1	276	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	192,424	8			
1346	East WRF	316B8030.1	112	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	84,671	8			6/1/1966
1347	East WRF	315A2065.1	266	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	166,031	8			6/1/1966
1348	East WRF	308B6015.1	224	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	164,534	8	CORONET LN	2020	6/1/1967
1349	East WRF	315A2070.1	334	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	218,463	8			6/1/1966
1350	East WRF	297A3055.1	334	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	253,237	8	TURNER ST	2021	
1351	East WRF	289A4085.1	362	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	240,644	8	S ARCTURAS AVE	2021	
1352	East WRF	308B7005.1	336	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	209,619	8	GLENMOOR RD	2019	6/1/1963
1353	East WRF	299A1085.1	256	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	159,587	8			6/1/1982
1354	East WRF	315B8100.1	139	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	86,791	8			
1355	East WRF	315B8070.1	114	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	75,954	8			
1356	East WRF	297A4030.1	295	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	219,191	8	S CREST AVE	2021	
1357	East WRF	297A3025.1	451	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	316,395	8			
1358	East WRF	299A1075.1	198	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	128,527	8			6/1/1982
1359	East WRF	298A4015.1	289	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	190,301	8			6/1/1962
1360	East WRF	298B5045.1	294	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	218,548	8			
1361	East WRF	297A3020.1	318	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	223,478	8	S LAKE DR	2021	
1362	East WRF	299A1115.1	163	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	101,862	8			6/1/1964
1363	East WRF	307A3035.1	301	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	188,032	8			6/7/2008
1364	East WRF	306B7215.1	263	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	183,910	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
1365	East WRF	292A1045.1	170	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	3	116,105	8			6/1/1968
1366	East WRF	289A2060.1	332	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	3	84,646	10			
1367	East WRF	307B7015.1	145	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	38,450	15			6/1/1967
1368	East WRF	291B8025.1	380	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	2	90,475	10			6/1/1974
1369	East WRF	300B5135.1	139	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	XXX		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	37,892	24			6/1/1986
1370	East WRF	315B7060.1	77	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	16,648	8			6/1/1971
1371	East WRF	292A1046.1	148	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	2	37,292	8			6/1/1968
1372	East WRF	299B5020.1	373	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	92,098	8			6/1/1961
1373	East WRF	299A1095.1	111	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	34,962	8			6/1/1964
1374	East WRF	308B6020.1	296	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	95,225	8	CORONET LN	2020	6/1/1967
1375	East WRF	297A4065.1	219	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	63,594	8			
1376	East WRF	299A4005.1	340	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	93,627	8			6/1/1962
1377	East WRF	298A4020.1	253	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	75,912	8			6/1/1962
1378	East WRF	308B5060.1	185	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	61,143	8			6/1/1962
1379	East WRF	308B8095.1	234	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	77,210	8			6/1/1963
1380	East WRF	274B8015.1	240	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	78,132	8	ROSE RD	2018	6/1/1963
1381	East WRF	308A3040.1	263	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	93,059	8			6/1/1962
1382	East WRF	299A3005.1	400	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	117,931	8			6/1/1961
1383	East WRF	317A1010.1	611	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	48,416	30			6/1/1963
1384	East WRF	309A4110.1	172	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	48,416	30	STEWART BLVD	2019	6/1/1963
1385	East WRF	306B7020.1	88	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15			
1386	East WRF	315B5005.1	254	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
1387	East WRF	308B5135.1	204	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1969
1388	East WRF	299B5010.2	399	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	112,309	8			6/1/1961
1389	East WRF	316B7075.1	227	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N	3	54,625	8			6/7/2008
1390	East WRF	290B6100.1	280	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1961
1391	East WRF	290A2130.1	399	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1961
1392	East WRF	297A4090.1	267	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8			
1393	East WRF	309B6055.1	328	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8	HARN BLVD	2019	6/1/1966
1394	East WRF	290A2100.1	285	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	43,700	8			2/14/2017
1395	East WRF	288B6005.1	368	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1962
1396	East WRF	297A4140.1	343	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	120,175	8			6/1/1967
1397	East WRF	316B7070.1	258	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	4	70,672	8			6/7/2008
1398	East WRF	289A4065.1	337	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	FRP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	1	10,925	8			
1399	East WRF	288B8015.1	317	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
1400	East WRF	300A9000.1	140	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	LIN		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	76,475	8			6/1/1961
1401	East WRF	298B5085.1	231	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	174,419	8			6/1/1966
1402	East WRF	308B5015.1	100	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	67,414	8			6/1/1962
1403	East WRF	306B7160.1	172	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	137,083	8			6/1/1969
1404	East WRF	297A2140.1	267	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	201,802	8			
1405	East WRF	308A3035.1	265	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	195,411	8			6/1/1962
1406	East WRF	315A2015.1	137	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	90,495	8			6/1/1961
1407	East WRF	298A2055.1	340	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	252,208	8			6/1/1962
1408	East WRF	298B5035.1	369	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	230,540	8			6/1/1965
1409	East WRF	309B5045.1	395	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	276,611	8			6/1/1980
1410	East WRF	309B5055.1	408	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	284,474	8			6/1/1980
1411	East WRF	299B7005.1	406	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-N	1	253,406	8			6/1/1961
1412	East WRF	314B7025.1	186	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	136,277	8			6/1/1963
1413	East WRF	315B7040.1	247	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-N	5	174,167	8			6/1/1971
1414	East WRF	316B5090.1	269	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	187,865	8	IMPERIAL WAY	2020	6/1/1963
1415	East WRF	316B5050.1	182	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	133,330	8	EMBASSY DR	2020	6/1/1965
1416	East WRF	291B6010.1	272	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	214,977	8			6/1/1963
1417	East WRF	296B8020.1	63	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	39,629	8	S HILLCREST AVE	2018	6/1/1967
1418	East WRF	290B6060.1	351	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	269,156	8			6/1/1964
1419	East WRF	291B6050.1	350	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	273,384	8			6/1/1968
1420	East WRF	306B6080.1	301	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	227,714	8			6/1/1971
1421	East WRF	306B8180.1	265	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	180,322	8			6/1/1961
1422	East WRF	308A3030.1	373	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	277,898	8			6/1/1962
1423	East WRF	298B5055.1	30	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	18,717	8			
1424	East WRF	316B5070.1	128	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	FRP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	89,852	8	EMBASSY DR	2020	6/1/1965
1425	East WRF	316B5025.1	196	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	147,238	8	EMBASSY DR	2020	6/1/1965
1426	East WRF	309B6080.1	401	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	275,063	8	HARN BLVD	2019	6/1/1966
1427	East WRF	309B6105.1	319	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	238,795	8	FAIRBANKS DR	2019	6/1/1967
1428	East WRF	296B8155.1	48	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	1	30,139	8			
1429	East WRF	307A2040.1	311	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	234,041	8			6/1/1962
1430	East WRF	309A4070.1	303	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	224,024	8	RANCHWOOD DR	2019	6/1/1965
1431	East WRF	290B6030.1	360	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	284,691	8			6/1/1964
1432	East WRF	298B6030.1	346	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	270,646	8			6/1/1962
1433	East WRF	306B8135.1	246	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-N	3	163,430	8			
1434	East WRF	306B8175.1	133	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	87,857	8			
1435	East WRF	306B7155.1	357	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	283,002	8			6/1/1969
1436	East WRF	297B6130.1	153	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	120,343	8			6/1/1967
1437	East WRF	307A3065.1	224	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	169,909	8			6/1/1970
1438	East WRF	307B7065.1	122	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	81,157	8			6/1/1977
1439	East WRF	290A4030.1	364	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	11	277,394	8			6/1/1962
1440	East WRF	291B6030.1	253	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	197,754	8			6/1/1963
1441	East WRF	314B7010.1	294	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	223,589	8			
1442	East WRF	309B7115.1	33	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	20,351	8			2/1/2014
1443	East WRF	298A4060.1	262	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	193,786	8			6/1/1962
1444	East WRF	315A2060.1	82	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	51,153	8			6/1/1961
1445	East WRF	308A3055.1	282	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	206,065	8			6/1/1962
1446	East WRF	315A2025.1	225	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	160,464	8			6/1/1961
1447	East WRF	291B6055.1	103	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	79,061	8			6/1/1963
1448	East WRF	309A3075.1	135	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	94,378	8	ST. CHARLES DR	2019	6/1/1963
1449	East WRF	280A2105.1	253	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	172,981	8			
1450	East WRF	314B6015.1	63	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	39,356	8			
1451	East WRF	297B7125.1	263	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	194,301	8	MARION ST	2021	

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
1452	East WRF	297B5055.1	176	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	129,736	8	TURNER ST	2021	
1453	East WRF	292A2025.1	348	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	242,119	8			6/1/1968
1454	East WRF	289A2040.1	286	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-N-Y-Y-N	3	188,622	8			
1455	East WRF	289B5035.1	379	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	286,861	8			
1456	East WRF	289B6030.1	344	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	254,787	8			
1457	East WRF	314B7055.1	204	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	152,629	8			6/1/1988
1458	East WRF	297A4055.1	125	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	92,744	8			
1459	East WRF	307A1050.1	298	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	20	281,090	8			
1460	East WRF	307A1055.1	241	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-N-Y-Y-N	10	195,671	8			
1461	East WRF	307A1205.1	56	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-N-Y-Y-N	1	35,031	8			
1462	East WRF	307A1120.1	42	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	26,253	8			
1463	East WRF	306B7055.1	208	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	159,897	8			
1464	East WRF	298B7009.1	8	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	4,806	8			
1465	East WRF	290A2035.1	265	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-N-Y	7	87,582	8			6/1/1962
1466	East WRF	309A4035.1	397	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-N-Y	10	131,383	8	WHISPERING PINES DR	2019	6/1/1965
1467	East WRF	316B5100.1	301	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	5	85,489	8	EMBASSY DR	2020	6/1/1965
1468	East WRF	307B5080.1	353	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	6	101,761	8			6/1/1970
1469	East WRF	317B5065.1	297	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	8	99,623	8	SUMMERLIN DR	2019	6/1/1968
1470	East WRF	317B5035.1	362	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	9	118,712	8	FAIRBANKS DR	2019	6/1/1968
1471	East WRF	317B7085.1	139	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	30,210	8			6/1/1968
1472	East WRF	275A2005.1	229	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	4	64,897	8	ARLIE AVE	2018	6/1/1963
1473	East WRF	314B8015.1	182	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	LIN		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	3	49,680	8			
1474	East WRF	314B8140.1	252	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	FRP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	6	79,716	8			
1475	East WRF	307B5005.1	180	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	4	54,167	8			6/1/1967
1476	East WRF	317B7045.1	256	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	FRP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	4	70,627	8			6/1/1968
1477	East WRF	298B5125.1	177	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	54,319	8			6/1/1966
1478	East WRF	316B5065.1	280	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	91,868	8	EMBASSY DR	2020	6/1/1965
1479	East WRF	288B7040.1	355	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	124,918	8			
1480	East WRF	299A1020.1	274	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	80,528	8			6/1/1961
1481	East WRF	306B7045.1	241	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	63,405	8			
1482	East WRF	289B6005.1	455	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	139,957	8			
1483	East WRF	296B8040.1	219	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	78,619	8	S HILLCREST AVE	2018	
1484	East WRF	296A4095.2	279	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	XXX		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	11	210,175	8			6/1/1962
1485	East WRF	296B8075.1	204	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	70,195	8	S HILLCREST AVE	2018	
1486	East WRF	297A2105.1	280	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	101,861	8	E MAGNOLIA ST	2018	
1487	East WRF	306B8060.1	342	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	9	120,241	8			
1488	East WRF	297A3085.1	178	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	64,701	8	SKYVIEW AVE	2021	
1489	East WRF	309B6025.1	382	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	11	139,078	8	SUMMERLIN DR	2019	6/1/1966
1490	East WRF	298B6105.1	334	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	113,554	8			6/1/1962
1491	East WRF	283A3110.1	326	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-N-Y-Y-Y	5	96,795	8	MONTEREY AVE	2019	6/1/1965
1492	East WRF	317A3035.1	396	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	137,014	8	STEWART BLVD	2019	6/1/1968
1493	East WRF	317B5055.1	223	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	80,901	8	SUMMERLIN DR	2019	6/1/1968
1494	East WRF	307A2050.1	230	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	80,886	8			6/1/1962
1495	East WRF	298A1105.1	354	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	107,877	8			6/1/1962
1496	East WRF	315B6040.1	324	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	9	116,305	8			
1497	East WRF	309B5050.1	399	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	127,646	8			6/1/1980
1498	East WRF	309A3020.1	165	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	51,850	8	GLENMOOR RD N	2019	6/1/1963
1499	East WRF	290A4050.1	697	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	13	217,612	8			6/1/1963
1500	East WRF	289A3015.1	365	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	11	135,269	8			
1501	East WRF	289A4040.1	264	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	68,290	8			
1502	East WRF	309A1040.1	156	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	54,912	8	GLENMOOR RD S	2019	6/1/1962
1503	East WRF	309A3045.1	420	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	PVC		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	142,219	8	GLENMOOR CT	2019	6/1/1963
1504	East WRF	297B6075.1	197	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	68,779	8			6/1/1964
1505	East WRF	306B8025.1	280	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	101,834	8			
1506	East WRF	307A1040.1	22	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15			6/1/1967
1507	East WRF	314B6005.1	203	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			
1508	East WRF	288B6045.1	289	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1962
1509	East WRF	288B8035.1	326	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	21,850	8			
1510	East WRF	306B6020.1	210	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	93,891	8			6/1/1971
1511	East WRF	317A3050.1	366	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8	SUMMERLIN DR	2019	6/1/1968
1512	East WRF	288B6085.1	332	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	0	-	8			6/1/1962
1513	East WRF	289B6075.1	262	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			
1514	East WRF	306B7150.1	364	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			6/1/1969
1515	East WRF	298A2065.1	290	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	102,699	8			6/1/1962
1516	East WRF	306B6090.1	314	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	5	144,428	8			
1517	East WRF	297B5050.1	211	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	4	76,475	8	YELVINGTON AVE	2021	
1518	East WRF	314B8085.1	300	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	LIN		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	17,076	8			
1519	East WRF	289B6110.1	285	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8	RAINBOW DR	2018	
1520	East WRF	306B7190.1	255	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1973
1521	East WRF	307B5035.1	196	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	116,242	8			
1522	East WRF	314B8025.1	179	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	21,850	8			
1523	East WRF	299A2060.1	322	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1970
1524	East WRF	317A3075.1	392	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	0	-	8	STEWART BLVD	2019	6/1/1968
1525	East WRF	299B7010.1	33	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	21,850	8			6/1/1961
1526	East WRF	297B5095.1	266	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	90,404	8	YELVINGTON AVE	2021	
1527	East WRF	299A1015.1	208	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	1	32,775	8			6/1/1961
1528	East WRF	289B6080.1	125	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
1529	East WRF	297B7030.1	181	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8	PHOENIX AVE	2021	
1530	East WRF	297A3105.1	193	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8	S CREST AVE	2021	
1531	East WRF	288B7015.1	339	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	4	76,475	8			
1532	East WRF	309B5010.1	386	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	15,036	8			6/1/1980
1533	East WRF	314B8120.1	358	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	102,913	8			
1534	East WRF	299A4110.1	301	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	76,475	8			6/1/1970
1535	East WRF	314B8095.1	339	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	119,738	8			
1536	East WRF	297A3095.1	322	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	4	76,475	8	S CREST AVE	2021	
1537	East WRF	314B8075.1	251	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	FRP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			
1538	East WRF	308A3015.1	274	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	92,968	8			6/1/1962
1539	East WRF	299A4115.1	301	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	4	76,475	8			6/1/1970
1540	East WRF	292A2015.1	315	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	95,048	8			6/1/1968
1541	East WRF	289A4005.1	255	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
1542	East WRF	289A2030.1	326	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	100,728	8			
1543	East WRF	289B5090.1	371	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	128,259	8			
1544	East WRF	289B6015.1	221	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	4	144,190	8			
1545	East WRF	289A3020.1	364	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8			
1546	East WRF	298B8010.1	377	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	43,700	8			
1547	East WRF	314B7145.1	354	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8			6/1/1970
1548	East WRF	314B8090.1	231	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	LIN		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	105,754	8			
1549	East WRF	315B8105.1	187	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
1550	East WRF	289B5041.1	241	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	76,475	8			
1551	East WRF	316B7030.1	130	Yes	2	4	2x4	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	82,303	10			6/1/1966
1552	East WRF	308A3130.1	161	Yes	2	4	2x4	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	108,657	15			6/1/1967
1553	East WRF	292A2090.1	276	Yes	2	4	2x4	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	196,193	15			6/1/1961
1554	East WRF	308A3120.1	301	Yes	2	4	2x4	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	90,737	15			6/1/1967
1555	Northeast WRF	264A1020.1	62	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	40,781	12			6/1/1967
1556	Northeast WRF	271B6045.1	382	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	248,422	8			6/1/1973
1557	Northeast WRF	222B7065.1	222	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	153,667	8			6/1/1976
1558	Northeast WRF	279B8065.1	300	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	10	232,243	8			
1559	Northeast WRF	273A3135.1	159	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	98,946	8			
1560	Northeast WRF	281A1030.1	281	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	215,356	8			6/1/1973
1561	Northeast WRF	281A3080.1	167	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	119,062	8			6/1/1969
1562	Northeast WRF	264B6155.1	202	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	135,766	8			6/1/1969
1563	Northeast WRF	211B8095.1	246	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	178,306	8			6/1/1981
1564	Northeast WRF	280B5030.1	346	Yes	4	2	4x2	Frequent Condition Evaluation	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	220,832	8			
1565	Northeast WRF	232A4060.1	269	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-N-Y	7	88,423	8			6/1/1974
1566	Northeast WRF	200A1050.1	326	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	4	85,861	8	AUGUSTA DR W	2022	6/1/1977
1567	Northeast WRF	233A1085.1	97	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	CAS		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	21,054	8			11/1/1983
1568	Northeast WRF	263B6105.1	345	Yes	4	2	4x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	10	119,966	8	RIDGE TOP WAY	2023	6/1/1981
1569	Northeast WRF	289B7020.1	399	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	FRP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	127,720	8			6/1/1968
1570	Northeast WRF	222A3025.1	312	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	100,722	8			
1571	Northeast WRF	222B8065.1	265	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	83,471	8			6/1/1977
1572	Northeast WRF	261B8030.1	242	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	73,463	8			6/1/1963
1573	Northeast WRF	221B8025.1	352	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	87,471	8			6/1/1979
1574	Northeast WRF	264B6110.1	274	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	70,571	8	ST. ANTHONY DR	2022	6/1/1969
1575	Northeast WRF	264A2010.1	445	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,994	12			6/1/1967
1576	Northeast WRF	281A1105.1	372	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
1577	Northeast WRF	178B8035.1	310	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1980
1578	Northeast WRF	222A3045.1	30	Yes	4	2	4x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	1	32,775	8	WINDING WOOD DR	2022	
1579	Northeast WRF	273B6050.1	113	Yes	4	1	4x1	Frequent Condition Evaluation	Replace	VCP	PVC	[Count of Defects in 100 unit length]{"Def_Code" LIKE 'X%' OR "Def_Code" LIKE 'B%' OR "Def_Code" LIKE 'FH' OR "Def_Code" LIKE 'JOL' OR "Def_Code" LIKE 'JAL' OR "Def_Code" LIKE 'JSL' OR "Def_Code" LIKE 'D%' AND "Def_Type" = 'STRUCTURAL' } > (2) is Yes	Y-Y-Y	3	80,548	8	JADEWOOD AVE	2020	6/1/1972
1580	Northeast WRF	272A1005.1	254	Yes	3	4	3x4	Frequent Condition Evaluation	Replace	RCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-N-Y-N	1	174,979	18			6/1/1969
1581	Northeast WRF	280B5025.1	290	Yes	3	4	3x4	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	2	68,018	8			
1582	Northeast WRF	271B6020.1	36	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	23,350	12			6/1/1973
1583	Northeast WRF	271A4020.1	353	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	240,765	12			6/1/1973
1584	Northeast WRF	264A1030.1	298	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	225,037	12			6/1/1967
1585	Northeast WRF	282A2110.1	63	Yes	3	3	3x3	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	39,158	8			6/1/1970
1586	Northeast WRF	282B5015.1	266	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-N-Y	3	67,869	8	PARK TRAIL LN	2020	6/1/1972
1587	Northeast WRF	273B6120.1	229	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-N-Y	7	79,886	8	FAIRWOOD AVE	2020	6/1/1972
1588	Northeast WRF	255A2070.1	96	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	CAS		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	22,987	12			6/1/1967
1589	Northeast WRF	223A2030.1	217	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	47,161	8			6/1/1976
1590	Northeast WRF	221B8115.1	376	Yes	3	3	3x3	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	81,753	8			6/1/1979
1591	Northeast WRF	282A2120.1	416	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	126,291	10			6/1/1970
1592	Northeast WRF	272B6095.1	244	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	109,980	30			6/1/1969
1593	Northeast WRF	279B8025.1	234	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	71,797	8			
1594	Northeast WRF	188B5085.1	376	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	92,764	8			6/1/1978
1595	Northeast WRF	211A4115.1	458	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	18			6/1/1977
1596	Northeast WRF	255A4010.1	345	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	14			6/1/1984
1597	Northeast WRF	233A1065.1	159	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			11/1/1983
1598	Northeast WRF	291A3015.1	87	Yes	3	3	3x3	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			
1599	Northeast WRF	256A2140.1	26	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	17,202	12			6/1/1972
1600	Northeast WRF	273B6060.1	341	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	262,538	8	GRANTWOOD AVE	2020	6/1/1972
1601	Northeast WRF	253A4015.1	325	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	10	248,120	8			6/1/1974
1602	Northeast WRF	189B8035.1	245	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	162,924	8			6/1/1979
1603	Northeast WRF	261B7045.1	356	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	252,385	8			6/1/1961
1604	Northeast WRF	261B7015.1	363	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	256,388	8			6/1/1961
1605	Northeast WRF	261B7020.1	356	Yes	3	2	3x2	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	17	302,431	8			6/1/1961

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
1606	Northeast WRF	255A3035.1	244	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	CAS		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-Y-N-Y	1	58,431	12			6/1/1984
1607	Northeast WRF	280A4025.1	317	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	8	103,877	8			
1608	Northeast WRF	273A3050.1	313	Yes	3	2	3x2	Frequent Condition Evaluation	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'O%' AND "Def_Type" = 'SERVICE' } >= (1) is No	Y-Y-N-N-N-N-Y-N-N-N	10	113,089	8			
1609	Northeast WRF	279B8040.1	347	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	9	121,475	8			
1610	Northeast WRF	211B7105.1	260	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	92,551	8			6/1/1976
1611	Northeast WRF	211B6125.1	177	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	64,457	8			6/1/1974
1612	Northeast WRF	279B8110.1	278	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	9	106,404	8			
1613	Northeast WRF	263A3085.1	230	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	75,966	8	PRINCETON DR	2020	6/1/1970
1614	Northeast WRF	211B8090.1	223	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	84,355	8			6/1/1974
1615	Northeast WRF	281A1040.1	224	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	84,546	8			6/1/1973
1616	Northeast WRF	222B8105.1	313	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	84,089	8			6/1/1977
1617	Northeast WRF	189B5045.1	282	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	102,300	8	MASTERS DR	2022	6/1/1979
1618	Northeast WRF	178B8115.1	320	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	93,306	8			6/1/1980
1619	Northeast WRF	232A2125.1	368	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	12	140,933	8			6/1/1977
1620	Northeast WRF	281A3040.1	214	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	77,399	8			6/1/1969
1621	Northeast WRF	261B7035.1	363	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	119,925	8			6/1/1961
1622	Northeast WRF	255A4005.1	352	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	CAS		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	32,775	12			6/1/1984
1623	Northeast WRF	255A3115.1	348	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	12			6/1/1984
1624	Northeast WRF	244A4507.1	283	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	76,475	10			6/1/1984
1625	Northeast WRF	222B8015.1	126	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	48,070	8			6/1/1977
1626	Northeast WRF	252B8040.1	287	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1970
1627	Northeast WRF	273B6075.1	371	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	1	10,925	8	DOVEWOOD ST	2020	6/1/1972
1628	Northeast WRF	221A1005.1	211	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	2	98,980	8			6/1/1977
1629	Northeast WRF	222A4075.1	286	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	PVC		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-N-Y-N	0	-	8	CYPRESS BEND DR E	2022	6/1/1977
1630	Northeast WRF	222B6015.1	278	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	17,480	8			6/1/1977
1631	Northeast WRF	244A4005.1	350	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
1632	Northeast WRF	222B8050.1	375	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	19,010	8			6/1/1977
1633	Northeast WRF	233A2030.1	146	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			6/1/1986
1634	Northeast WRF	264A3170.1	137	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	PVC		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	3	54,625	8			6/1/1995
1635	Northeast WRF	190A2025.1	87	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	65,550	8			1/1/1990
1636	Northeast WRF	253B6060.1	317	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1978
1637	Northeast WRF	280B6010.1	390	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
1638	Northeast WRF	222B8025.1	216	Yes	3	2	3x2	Frequent Condition Evaluation	Point Repair	VCP		[Total Length of Rehabilitations]{"RehabMethod" = 'POINT REPAIR' } >= (80)% of [GravityMain.PipeLength] is No	Y-Y-N-N-Y-N	1	16,825	8			6/8/2015
1639	Northeast WRF	290B5020.1	459	Yes	2	4	2x4	Frequent Condition Evaluation	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	289,892	10			6/1/1965
1640	Northeast WRF	255A4030.1	302	Yes	2	4	2x4	Frequent Condition Evaluation	Lining	CAS		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	79,988	14			6/1/1984
1641	Northeast WRF	255A4025.1	249	Yes	2	4	2x4	Frequent Condition Evaluation	Lining	CAS		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	65,950	14			6/1/1984
1642	Northeast WRF	273A3110.2	161	Yes	2	4	2x4	Frequent Condition Evaluation	Lining	DIP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	42,749	14			6/1/1984
1643	Northeast WRF	273A2060.1	356	Yes	2	4	2x4	Frequent Condition Evaluation	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y	3	207,896	30			6/1/1967
1644	Northeast WRF	271B7100.1	237	Yes	2	4	2x4	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	73,617	15			6/1/1973
1645	Northeast WRF	281B8100.1	429	Yes	2	4	2x4	Frequent Condition Evaluation	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	131,094	8			6/1/1981
1646	Northeast WRF	290B5025.1	357	Yes	2	4	2x4	Frequent Condition Evaluation	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	10			2/3/2008
1647	Marshall Street WRF	296B6040.1	403	Yes	3	1	3x1	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	281,664	8			
1648	Marshall Street WRF	296B6010.1	234	Yes	3	1	3x1	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	176,320	8			
1649	Marshall Street WRF	287B5070.1	535	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	37,145	8	GROVE ST	2021	
1650	Marshall Street WRF	269A4050.1	423	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	21	364,205	8			
1651	Marshall Street WRF	278B5090.1	407	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	21,850	8			2/3/2008
1652	Marshall Street WRF	269B8145.1	406	Yes	2	3	2x3	Regular Monitoring	Lining	LIN		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	8	123,401	8			6/1/1965
1653	Marshall Street WRF	258B5040.1	403	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	291,652	8			6/1/1969
1654	Marshall Street WRF	249B6030.1	398	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	7	163,875	8			6/1/1969
1655	Marshall Street WRF	287A3020.1	389	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	277,960	8	N MADISON AVE	2018	6/1/1961
1656	Marshall Street WRF	249B5015.1	388	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	5	98,325	8			6/1/1969
1657	Marshall Street WRF	253B5010.1	386	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	10	285,919	8			6/1/1979
1658	Marshall Street WRF	306A1050.1	378	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	43,700	8			
1659	Marshall Street WRF	269A4140.1	377	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	134,845	8			
1660	Marshall Street WRF	278B6010.1	376	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	76,475	8	N JEFFERSON AVE	2018	
1661	Marshall Street WRF	278B6020.1	375	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	10	N PRESCOTT AVE	2018	
1662	Marshall Street WRF	278A2170.1	368	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	294,723	8	VINE AVE	2018	
1663	Marshall Street WRF	287A2105.1	366	Yes	2	3	2x3	Regular Monitoring	Lining	FRP		[Count of Defects]{"Def_Code" LIKE 'O%' AND "Def_Type" = 'SERVICE' } >= (1) is No	Y-Y-N-N-N-N-Y-N-N-N	9	137,064	15	FRANKLIN ST	2021	
1664	Marshall Street WRF	277B7080.1	366	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	14,421	8			
1665	Marshall Street WRF	242B7020.1	366	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	75,601	8			6/1/1986
1666	Marshall Street WRF	287B5010.1	357	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	N JEFFERSON AVE	2021	
1667	Marshall Street WRF	270A1055.1	356	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	86,745	8			6/1/1961
1668	Marshall Street WRF	296A4175.1	354	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	15			
1669	Marshall Street WRF	251A2080.1	347	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	256,434	8			6/1/1964
1670	Marshall Street WRF	306A4140.1	342	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	4	76,475	8			6/1/1969
1671	Marshall Street WRF	306A4115.1	341	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	242,636	8			6/1/1969
1672	Marshall Street WRF	269A4055.1	339	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	62,273	8			
1673	Marshall Street WRF	296A4190.1	336	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	58,558	15			
1674	Marshall Street WRF	278A2165.1	336	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	259,518	8	FERN AVE	2018	
1675	Marshall Street WRF	278A4080.1	334	Yes	2	3	2x3	Regular Monitoring	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	8	107,655	8	JONES ST	2018	6/1/1975
1676	Marshall Street WRF	297A1060.1	331	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	82,939	8			
1677	Marshall Street WRF	286B7055.1	329	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	270,524	8	HENDRICKS ST	2021	
1678	Marshall Street WRF	297A1035.1	326	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
1679	Marshall Street WRF	305B7020.1	323	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1983
1680	Marshall Street WRF	253A3140.1	322	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1978
1681	Marshall Street WRF	314A4130.1	321	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	13	260,392	8			
1682	Marshall Street WRF	314A4095.1	320	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	224,580	8			
1683	Marshall Street WRF	288A3085.1	317	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	143,773	8	LAURA ST	2020	
1684	Marshall Street WRF	306A4065.1	313	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[Count of Defects]{"Def_Code" LIKE 'R1%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	115,368	8			
1685	Marshall Street WRF	258B8020.1	312	Yes	2	3	2x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			2/3/2008
1686	Marshall Street WRF	260A1015.1	311	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	83,467	8			6/7/2008

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
1687	Marshall Street WRF	285A3010.1	310	Yes	2	3	2x3	Regular Monitoring	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	9	107,525	8			
1688	Marshall Street WRF	314A4120.1	310	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	11	243,406	8			
1689	Marshall Street WRF	314A4135.1	306	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	246,250	8			
1690	Marshall Street WRF	276A1090.1	303	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	209,240	8			
1691	Marshall Street WRF	268B8095.1	302	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	106,570	8			
1692	Marshall Street WRF	285B5030.1	301	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	227,767	8			
1693	Marshall Street WRF	296B8045.1	301	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	234,879	10	MARK DR	2018	
1694	Marshall Street WRF	287B7085.1	300	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	242,243	8	N EVERGREEN AVE	2020	
1695	Marshall Street WRF	314A1050.1	298	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	221,097	8			
1696	Marshall Street WRF	314A4090.1	298	Yes	2	3	2x3	Regular Monitoring	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	4	79,855	8			6/1/1971
1697	Marshall Street WRF	287B7065.1	297	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			
1698	Marshall Street WRF	276A4020.1	295	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-N	12	119,160	8			
1699	Marshall Street WRF	297A1040.1	293	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
1700	Marshall Street WRF	276A2155.1	293	Yes	2	3	2x3	Regular Monitoring	Lining	DIP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	2	68,764	8			2/27/2009
1701	Marshall Street WRF	270B8090.1	292	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	12	237,441	8			
1702	Marshall Street WRF	285B5060.1	288	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	209,492	8			
1703	Marshall Street WRF	296B7055.1	287	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	209,124	8			
1704	Marshall Street WRF	306A3035.1	285	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			6/1/1999
1705	Marshall Street WRF	305B7005.2	283	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	206,465	8			6/1/1983
1706	Marshall Street WRF	287B7055.1	278	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	201,894	8			
1707	Marshall Street WRF	279A3040.1	272	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	21,850	15			6/1/1983
1708	Marshall Street WRF	260A2155.1	268	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8	APACHE TRL	2022	
1709	Marshall Street WRF	287B5040.1	267	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	211,809	8	N LINCOLN AVE	2021	
1710	Marshall Street WRF	288A2125.1	262	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	240,787	8			
1711	Marshall Street WRF	269A2195.1	260	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8			
1712	Marshall Street WRF	314A1010.1	259	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	188,333	10			5/3/2004
1713	Marshall Street WRF	314A4080.1	258	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	185,915	8			
1714	Marshall Street WRF	286B8160.1	258	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	170,727	8			
1715	Marshall Street WRF	267A3045.1	252	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	91,770	8			
1716	Marshall Street WRF	287B6035.1	249	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	10	200,182	8			
1717	Marshall Street WRF	314B5025.1	246	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	163,822	8			6/1/1971
1718	Marshall Street WRF	258B6045.1	244	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	172,430	8			6/1/1965
1719	Marshall Street WRF	313B8100.1	242	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			10/28/2009
1720	Marshall Street WRF	258B6025.1	242	Yes	2	3	2x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	67,259	8			2/3/2008
1721	Marshall Street WRF	269B6170.1	241	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	48,416	30			
1722	Marshall Street WRF	269B5050.1	240	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	84,053	8			11/23/2010
1723	Marshall Street WRF	276A2140.1	239	Yes	2	3	2x3	Regular Monitoring	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	126,730	8			
1724	Marshall Street WRF	305B7015.1	233	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	104,443	8			6/1/1983
1725	Marshall Street WRF	278A1070.1	233	Yes	2	3	2x3	Regular Monitoring	Lining	PVC		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	7	80,611	8			
1726	Marshall Street WRF	287B5005.1	230	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	28,596	8	N JEFFERSON AVE	2021	
1727	Marshall Street WRF	288A3060.1	228	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	182,326	8	LAURA ST	2020	
1728	Marshall Street WRF	269B6005.1	221	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1963
1729	Marshall Street WRF	251A2135.1	218	Yes	2	3	2x3	Regular Monitoring	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	4	62,479	8			6/7/2008
1730	Marshall Street WRF	287B7040.1	215	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	N EVERGREEN AVE	2020	
1731	Marshall Street WRF	296B7005.1	214	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	144,730	12			2/3/2008
1732	Marshall Street WRF	287A2160.1	213	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	162,705	8			
1733	Marshall Street WRF	238A3015.1	212	Yes	2	3	2x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	BAY ESPLANADE	2021	2/3/2008
1734	Marshall Street WRF	269A4060.1	205	Yes	2	3	2x3	Regular Monitoring	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	142,845	8			
1735	Marshall Street WRF	287B5140.1	203	Yes	2	3	2x3	Regular Monitoring	Point Repair	CP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	GROVE ST	2021	2/3/2008
1736	Marshall Street WRF	287A2070.1	201	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	155,457	8	FRANKLIN ST	2021	
1737	Marshall Street WRF	287A3095.1	198	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	148,780	8			
1738	Marshall Street WRF	259B8095.1	193	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	57,909	8	SUNBURST CT	2022	
1739	Marshall Street WRF	296B8050.1	187	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	126,988	8			
1740	Marshall Street WRF	287B6065.1	187	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	141,402	8			
1741	Marshall Street WRF	314A4015.1	185	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	125,462	8			
1742	Marshall Street WRF	268B7010.1	185	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	150,257	8	FAIRMONT ST	2022	
1743	Marshall Street WRF	278A2065.1	179	Yes	2	3	2x3	Regular Monitoring	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	3	48,966	8	LEE ST	2018	6/1/1975
1744	Marshall Street WRF	296A1010.1	175	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	23,826	8			8/30/2005
1745	Marshall Street WRF	251A2125.1	168	Yes	2	3	2x3	Regular Monitoring	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	3	46,628	8			6/1/1964
1746	Marshall Street WRF	313B8030.1	165	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1964
1747	Marshall Street WRF	287B8125.1	161	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	66,151	8			
1748	Marshall Street WRF	260A2125.1	161	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	50,255	8	MOHAWK ST	2022	
1749	Marshall Street WRF	313B8025.1	161	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	76,912	8			6/1/1986
1750	Marshall Street WRF	286B7185.1	151	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	48,149	8	PARK ST	2021	
1751	Marshall Street WRF	306A2025.1	142	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
1752	Marshall Street WRF	288A3090.1	141	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	98,252	8	CLEVELAND ST	2020	
1753	Marshall Street WRF	287B8045.1	139	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	41,128	8			
1754	Marshall Street WRF	306A4040.1	133	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	87,950	8			6/1/1969
1755	Marshall Street WRF	276A2085.1	133	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	82,798	8			12/1/2008
1756	Marshall Street WRF	276A2125.1	131	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			12/1/2008
1757	Marshall Street WRF	296A1025.1	130	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	100,954	8			8/30/2005
1758	Marshall Street WRF	287A2150.1	129	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	100,261	8			
1759	Marshall Street WRF	267B5040.1	124	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	21,850	8			
1760	Marshall Street WRF	253A1060.1	120	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8	DAWN DR	2019	6/1/1960
1761	Marshall Street WRF	260A2170.1	117	Yes	2	3	2x3	Regular Monitoring	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	4	40,433	8	APACHE TRL	2022	
1762	Marshall Street WRF	306A4025.1	115	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	76,777	8			6/1/1969
1763	Marshall Street WRF	276A2105.1	114	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	31,654	8			12/1/2008
1764	Marshall Street WRF	286B6145.1	112	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
1765	Marshall Street WRF	313B8035.1	110	Yes	2	3	2x3	Regular Monitoring	Point Repair	CAS		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	31,909	8			6/1/1964
1766	Marshall Street WRF	314A3090.1	104	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	85,741	10			6/1/1966
1767	Marshall Street WRF	296A4195.1	101	Yes	2	3	2x3	Regular Monitoring	Lining	PVC		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	22,079	8			8/30/2005
1768	Marshall Street WRF	287B5015.1	95	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	54,625	8	N LINCOLN AVE	2021	
1769	Marshall Street WRF	268B8110.1	69	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	13,110	12			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
1770	Marshall Street WRF	278A4060.1	64	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	39,965	8	HART ST	2018	6/1/1975
1771	Marshall Street WRF	287A2100.1	54	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	33,475	8			
1772	Marshall Street WRF	295B7010.1	53	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	33,045	8			
1773	Marshall Street WRF	278B7070.1	46	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	58,121	10			
1774	Marshall Street WRF	296A1095.1	41	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	27,794	10			
1775	Marshall Street WRF	314A1015.1	40	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	25,364	10			6/1/1966
1776	Marshall Street WRF	314B5060.1	36	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	22,609	8			
1777	Marshall Street WRF	296B7025.1	33	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	21,259	12			
1778	Marshall Street WRF	269B6040.1	31	Yes	2	3	2x3	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,277	30			
1779	Marshall Street WRF	295B7125.1	27	Yes	2	3	2x3	Regular Monitoring	Lining	FRP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	6,039	10			
1780	Marshall Street WRF	251A1095.1	25	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	15,693	8	GRANADA ST	2023	6/1/1961
1781	Marshall Street WRF	295B7015.1	13	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	8,420	8			
1782	Marshall Street WRF	251A2105.1	11	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	7,085	8			6/1/1964
1783	Marshall Street WRF	306A4145.1	536	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	76,475	8			
1784	Marshall Street WRF	279A2065.1	524	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	43,700	8	FOREST RD	2020	
1785	Marshall Street WRF	287A3035.1	503	Yes	2	2	2x2	Regular Monitoring	Replace	FRP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	18	399,003	8	GROVE ST	2021	
1786	Marshall Street WRF	279A2140.1	491	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	76,475	8	CRESTVIEW ST	2020	
1787	Marshall Street WRF	287B6085.1	456	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	329,844	8			
1788	Marshall Street WRF	249A1025.1	456	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	54,625	6			6/1/1963
1789	Marshall Street WRF	260A2055.1	446	Yes	2	2	2x2	Regular Monitoring	Replace	FRP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-N-N-Y-Y-N	15	348,213	8	IROQUOIS ST	2022	
1790	Marshall Street WRF	287B6025.1	439	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	10	319,078	8			
1791	Marshall Street WRF	287A3065.1	429	Yes	2	2	2x2	Regular Monitoring	Point Repair	RMP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8	GROVE ST	2021	
1792	Marshall Street WRF	238A4090.1	428	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	116,679	8	JUNIPER ST	2021	2/3/2008
1793	Marshall Street WRF	269A1080.1	425	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	315,304	8			
1794	Marshall Street WRF	314A1025.1	422	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
1795	Marshall Street WRF	268B7080.1	410	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	57,029	8			
1796	Marshall Street WRF	277B7100.1	407	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	12			
1797	Marshall Street WRF	258B5010.1	406	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	10	133,308	8			6/1/1969
1798	Marshall Street WRF	306A1045.1	406	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	65,550	8			
1799	Marshall Street WRF	306A1020.1	405	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1983
1800	Marshall Street WRF	258B7010.1	405	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	8	123,006	8			6/1/1968
1801	Marshall Street WRF	249B8015.1	404	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	10	132,884	8			6/1/1968
1802	Marshall Street WRF	249B8010.1	402	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	10	132,417	8			6/1/1968
1803	Marshall Street WRF	253B5090.1	402	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	12	305,596	8			6/1/1980
1804	Marshall Street WRF	261B5045.1	399	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	289,061	8			6/1/1973
1805	Marshall Street WRF	258B5035.1	398	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	288,680	8			6/1/1968
1806	Marshall Street WRF	249B8005.1	398	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	10	131,573	8			6/1/1968
1807	Marshall Street WRF	252B5165.1	397	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	263,078	8			6/1/1961
1808	Marshall Street WRF	277B7035.1	395	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	90,022	8			
1809	Marshall Street WRF	295B6075.1	393	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	300,472	8			
1810	Marshall Street WRF	249B7005.1	392	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	54,625	8			6/1/1968
1811	Marshall Street WRF	258B7005.1	392	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	10	130,344	8			6/1/1968
1812	Marshall Street WRF	258B8035.1	389	Yes	2	2	2x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	76,475	8			2/3/2008
1813	Marshall Street WRF	277B8095.1	384	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	10	JONES ST	2018	
1814	Marshall Street WRF	258B8030.1	383	Yes	2	2	2x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	46,759	8			2/3/2008
1815	Marshall Street WRF	278A4010.1	383	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	N WASHINGTON AVE	2018	
1816	Marshall Street WRF	314A4055.1	382	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	15	308,422	8			
1817	Marshall Street WRF	313B7010.1	379	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	79,971	8			6/1/1973
1818	Marshall Street WRF	261B6040.1	377	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	12	142,976	8			1/1/1973
1819	Marshall Street WRF	279B6045.1	376	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	132,723	8			6/1/1963
1820	Marshall Street WRF	278B5085.1	374	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	13	293,121	8			2/3/2008
1821	Marshall Street WRF	288A2070.1	372	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	247,453	8			
1822	Marshall Street WRF	252A3015.1	371	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	231,557	8			6/1/1973
1823	Marshall Street WRF	253A1025.1	370	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	94,392	8			
1824	Marshall Street WRF	269B8090.1	369	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	21,850	10			6/1/1983
1825	Marshall Street WRF	314A3010.1	368	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	5	147,924	8			
1826	Marshall Street WRF	295B6045.1	367	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	11	135,821	8			
1827	Marshall Street WRF	258B8010.1	366	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	268,350	8			2/3/2008
1828	Marshall Street WRF	313B7015.1	365	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	5	100,510	8			6/1/1983
1829	Marshall Street WRF	252B6095.1	364	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	257,050	8			6/1/1961
1830	Marshall Street WRF	288A2100.1	364	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	123,671	8	DE LEON ST	2020	
1831	Marshall Street WRF	253A1080.1	363	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	256,282	8	SETON DR	2019	6/1/1960
1832	Marshall Street WRF	249B6015.1	361	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	265,413	8			6/1/1969
1833	Marshall Street WRF	238A4125.1	360	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	6	180,481	8	JESSAMINE CIR	2021	2/3/2008
1834	Marshall Street WRF	251A4075.1	358	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	108,801	8			6/1/1964
1835	Marshall Street WRF	277B5010.1	357	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	287,764	8	N OSCEOLA AVE	2018	
1836	Marshall Street WRF	249B6025.1	356	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	54,625	8			6/1/1969
1837	Marshall Street WRF	314A2015.1	355	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
1838	Marshall Street WRF	314A2005.1	354	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			
1839	Marshall Street WRF	296B6085.1	354	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	265,715	8			
1840	Marshall Street WRF	278A4015.1	351	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	N JEFFERSON AVE	2018	
1841	Marshall Street WRF	295B6020.1	350	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	4	127,167	6	HAMILTON CRES	2020	
1842	Marshall Street WRF	278B5030.1	350	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	258,351	8			
1843	Marshall Street WRF	261A4145.1	349	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	11	268,047	8			
1844	Marshall Street WRF	253A1040.1	349	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	267,813	8	SETON DR	2019	6/1/1968
1845	Marshall Street WRF	278A1040.1	346	Yes	2	2	2x2	Regular Monitoring	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
1846	Marshall Street WRF	295B6060.1	343	Yes	2	2	2x2	Regular Monitoring	Lining	PVC		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	10	119,679	8			
1847	Marshall Street WRF	314A2045.1	343	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1981
1848	Marshall Street WRF	288A3050.1	343	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	125,441	8	GROVE ST	2020	
1849	Marshall Street WRF	314A2050.1	341	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	76,475	8			
1850	Marshall Street WRF	296B8065.1	340	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	272,376	8	CHESTER DR	2018	
1851	Marshall Street WRF	295B6080.1	339	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	261,582	8			
1852	Marshall Street WRF	288A4020.1	338	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	230,882	8			
1853	Marshall Street WRF	314A4105.1	338	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	260,837	8			
1854	Marshall Street WRF	278B5025.1	335	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	11	259,342	8			
1855	Marshall Street WRF	313B7045.1	334	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	79,753	8			6/1/1983
1856	Marshall Street WRF	253A1035.1	332	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	247,245	8	DAWN DR	2019	6/1/1968
1857	Marshall Street WRF	288A4025.1	331	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	241,755	8			6/1/1972
1858	Marshall Street WRF	278A1050.2	330	Yes	2	2	2x2	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	100,292	10			
1859	Marshall Street WRF	296B7385.1	330	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	246,089	8	S EVERGREEN AVE	2018	

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
1860	Marshall Street WRF	252A1065.1	330	Yes	2	2	2x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	2	163,875	8	RIDGELANE RD	2019	2/3/2008
1861	Marshall Street WRF	238A3040.1	329	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	4	76,475	8	BAY ESPLANADE	2021	2/3/2008
1862	Marshall Street WRF	238A4070.1	326	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	3	103,788	8	LANTANA AVE	2021	2/3/2008
1863	Marshall Street WRF	249A4070.1	323	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	13	261,411	8	MANDALAY AVE	2021	6/1/1963
1864	Marshall Street WRF	313B7080.1	322	Yes	2	2	2x2	Regular Monitoring	Lining	PVC		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	8	104,993	8			6/1/1983
1865	Marshall Street WRF	314A4115.1	318	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	233,405	8			6/1/1970
1866	Marshall Street WRF	258B7035.1	318	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	8	104,097	8			6/1/1968
1867	Marshall Street WRF	314A2100.1	317	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
1868	Marshall Street WRF	314A4035.1	316	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	10	113,777	8			6/1/1972
1869	Marshall Street WRF	314A2080.1	315	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	35,948	8			
1870	Marshall Street WRF	314A2075.1	314	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	45,885	8			
1871	Marshall Street WRF	314A2065.1	314	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	65,550	8			
1872	Marshall Street WRF	258B8005.1	313	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	9	108,027	8			6/1/1965
1873	Marshall Street WRF	259B8030.1	311	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	PRINCESS ST	2022	
1874	Marshall Street WRF	277B8030.1	310	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	N GARDEN AVE	2018	
1875	Marshall Street WRF	258B8025.1	309	Yes	2	2	2x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			2/3/2008
1876	Marshall Street WRF	285B5045.1	309	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	233,031	8			
1877	Marshall Street WRF	295B8095.1	306	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	76,475	8			6/1/1983
1878	Marshall Street WRF	306A4105.1	305	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	6	234,669	8			
1879	Marshall Street WRF	238A4020.1	303	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	83,686	8	MANDALAY AVE	2021	2/3/2008
1880	Marshall Street WRF	288A3075.1	303	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	76,863	8	LAURA ST	2020	
1881	Marshall Street WRF	296B8060.1	300	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8	S EVERGREEN AVE	2018	
1882	Marshall Street WRF	238A4095.1	300	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	102,914	8	LAUREL ST	2021	2/3/2008
1883	Marshall Street WRF	297A1065.1	300	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	11	237,134	8			
1884	Marshall Street WRF	278B6045.1	299	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	216,342	8	JACKSON RD	2018	6/1/1975
1885	Marshall Street WRF	306A1070.1	298	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			2/3/2008
1886	Marshall Street WRF	261A2065.1	298	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	106,630	8			6/1/1971
1887	Marshall Street WRF	287B7080.1	297	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	210,370	8			
1888	Marshall Street WRF	288A2060.1	296	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	6	179,826	8	FRANKLIN ST	2020	
1889	Marshall Street WRF	269B7070.1	295	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	65,550	8			
1890	Marshall Street WRF	261A4150.1	295	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	229,097	8			
1891	Marshall Street WRF	288A3040.1	290	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8	N CREST AVE	2020	
1892	Marshall Street WRF	258B8015.1	289	Yes	2	2	2x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	18,854	8			2/3/2008
1893	Marshall Street WRF	296B8035.1	288	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	219,999	8	CHESTER DR	2018	
1894	Marshall Street WRF	270B8070.1	287	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	10	224,156	8			
1895	Marshall Street WRF	278A2105.1	286	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	88,117	8	PENNSYLVANIA AVE	2018	
1896	Marshall Street WRF	260A2135.1	286	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	MOHAWK ST	2022	
1897	Marshall Street WRF	306A4080.1	284	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	10	106,766	8			
1898	Marshall Street WRF	251A2035.1	283	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	70,357	8			6/1/1961
1899	Marshall Street WRF	305B8070.1	283	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	12	251,379	8			6/1/1981
1900	Marshall Street WRF	279B5090.1	282	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	206,227	8			6/1/1965
1901	Marshall Street WRF	270A4120.1	281	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1966
1902	Marshall Street WRF	253A1130.1	281	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	4	76,475	10			6/1/1961
1903	Marshall Street WRF	314A4155.1	280	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			9/26/2006
1904	Marshall Street WRF	269A2170.1	278	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1982
1905	Marshall Street WRF	288A2110.1	278	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	80,190	8	DE LEON ST	2020	
1906	Marshall Street WRF	278A4035.1	277	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8	PLAZA ST	2018	6/1/1975
1907	Marshall Street WRF	278B6085.1	274	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	36,053	8	JACKSON RD	2018	6/1/1975
1908	Marshall Street WRF	314A3185.1	273	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	9	99,347	8			
1909	Marshall Street WRF	249A3045.1	272	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	8	94,211	8	BAY ESPLANADE	2021	6/1/1963
1910	Marshall Street WRF	277B8010.1	270	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8	MAPLE ST	2018	
1911	Marshall Street WRF	270B6045.1	269	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	99,473	8	MACRAE AVE	2018	6/1/1968
1912	Marshall Street WRF	252A4120.1	269	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	187,680	8			6/1/1970
1913	Marshall Street WRF	278B6105.1	268	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	207,433	8	N LINCOLN AVE	2018	6/1/1975
1914	Marshall Street WRF	287B5120.1	268	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	150,547	8			
1915	Marshall Street WRF	314A3110.1	267	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8			6/1/1966
1916	Marshall Street WRF	252B5090.1	267	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	89,046	8			6/1/1978
1917	Marshall Street WRF	288B5060.1	267	Yes	2	2	2x2	Regular Monitoring	Point Repair	XXX		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	54,625	8	N LAKE DR	2020	6/1/1962
1918	Marshall Street WRF	276B6015.1	267	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	201,609	8			
1919	Marshall Street WRF	314A4030.1	267	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	211,400	8			6/1/1981
1920	Marshall Street WRF	287A4015.1	263	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	229,414	8			
1921	Marshall Street WRF	288A1055.1	263	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	88,049	8	LAURA ST	2020	6/1/1967
1922	Marshall Street WRF	238A4060.1	261	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	188,013	8	NARCISSUS AVE	2021	2/3/2008
1923	Marshall Street WRF	288A2015.1	261	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	7	86,752	8	PARK ST	2020	
1924	Marshall Street WRF	269A4020.1	259	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	226,817	8			
1925	Marshall Street WRF	296B8090.1	256	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	39,330	8	CHESTER DR	2018	
1926	Marshall Street WRF	287B6055.1	256	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	194,590	8			
1927	Marshall Street WRF	252A3050.1	254	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	188,821	8			6/1/1973
1928	Marshall Street WRF	285B5050.1	254	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	198,624	8			
1929	Marshall Street WRF	314A1030.1	254	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
1930	Marshall Street WRF	314A1035.1	254	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	73,634	8			
1931	Marshall Street WRF	287B6175.1	250	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	191,224	8			
1932	Marshall Street WRF	296B8125.1	249	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	190,513	8	S EVERGREEN AVE	2018	
1933	Marshall Street WRF	314A4040.1	248	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	174,867	8			6/1/1970
1934	Marshall Street WRF	288B5065.1	246	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	188,773	8	LAURA ST	2020	6/1/1962
1935	Marshall Street WRF	278B6080.1	243	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	161,641	8	JACKSON RD	2018	6/1/1975
1936	Marshall Street WRF	314A3100.1	241	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1966
1937	Marshall Street WRF	288A2080.1	241	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	54,625	8			
1938	Marshall Street WRF	295B5070.1	241	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	175,106	8	ORANGE AVE	2020	
1939	Marshall Street WRF	288A1145.1	240	Yes	2	2	2x2	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8	PARK ST	2020	
1940	Marshall Street WRF	288A2020.1	237	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8	S SAN REMO AVE	2020	
1941	Marshall Street WRF	287A4080.1	237	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8			
1942	Marshall Street WRF	251A1060.1	235	Yes	2	2	2x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	73,262	8	GRANADA ST	2023	2/3/2008
1943	Marshall Street WRF	269A1180.1	230	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
1944	Marshall Street WRF	279B5055.1	230	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	168,241	8			6/1/1965

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
1945	Marshall Street WRF	238A3075.1	228	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	3	75,164	8	BAY ESPLANADE	2021	2/3/2008
1946	Marshall Street WRF	286B5100.1	226	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	146,072	8			
1947	Marshall Street WRF	269A2045.1	225	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	170,269	8			
1948	Marshall Street WRF	296B6060.1	224	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	170,084	8			
1949	Marshall Street WRF	267A4015.1	224	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/7/2008
1950	Marshall Street WRF	238A3050.1	222	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8	BAY ESPLANADE	2021	6/7/2008
1951	Marshall Street WRF	249B6010.1	220	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	162,237	8			6/1/1969
1952	Marshall Street WRF	313B7095.1	220	Yes	2	2	2x2	Regular Monitoring	Point Repair	RCP		[Count of Defects]["Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	128,697	8			6/1/1973
1953	Marshall Street WRF	252B5150.1	216	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1986
1954	Marshall Street WRF	258A3060.1	216	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	67,857	8	MANDALAY AVE	2021	6/7/2008
1955	Marshall Street WRF	251A1055.1	212	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]["Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	34,960	8			6/1/1969
1956	Marshall Street WRF	288A1080.1	212	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]["Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8			
1957	Marshall Street WRF	314A3140.1	206	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	153,679	8			6/1/1981
1958	Marshall Street WRF	314A3105.1	205	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	147,795	8			6/1/1966
1959	Marshall Street WRF	278A2030.1	204	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	142,429	8	LEE ST	2018	6/1/1975
1960	Marshall Street WRF	269A3160.1	203	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	65,331	8			
1961	Marshall Street WRF	296B6055.1	201	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	130,317	8			
1962	Marshall Street WRF	252A1020.1	200	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	140,108	8	RIDGELANE RD	2019	
1963	Marshall Street WRF	276A2080.1	200	Yes	2	2	2x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			2/27/2009
1964	Marshall Street WRF	314A3080.1	196	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	147,243	8			6/1/1966
1965	Marshall Street WRF	314A3030.1	191	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	139,113	8			6/1/1964
1966	Marshall Street WRF	251A1005.1	191	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	128,976	8	MARINE ST	2023	6/1/1969
1967	Marshall Street WRF	306B7030.1	189	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	147,949	8			
1968	Marshall Street WRF	252A3055.1	183	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	134,260	8			6/1/1973
1969	Marshall Street WRF	258B5055.1	181	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	142,794	8			6/1/1968
1970	Marshall Street WRF	306A3005.1	180	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	122,526	8			6/1/1999
1971	Marshall Street WRF	252A4075.1	176	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	64,314	8			6/1/1961
1972	Marshall Street WRF	288A1060.1	174	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	59,788	8	LAURA ST	2020	6/1/1967
1973	Marshall Street WRF	238A4015.1	173	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	81,500	8	NARCISSUS AVE	2021	2/3/2008
1974	Marshall Street WRF	278A2040.1	168	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	VINE AVE	2018	
1975	Marshall Street WRF	287A4010.1	167	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	128,951	8			
1976	Marshall Street WRF	306A1030.1	163	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	39,330	3			6/1/1999
1977	Marshall Street WRF	296A3115.1	162	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]["Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-Y-N-Y	2	40,230	8			5/1/1986
1978	Marshall Street WRF	278A3030.1	161	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]["Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	36,306	10			6/1/1975
1979	Marshall Street WRF	314A2055.1	157	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1981
1980	Marshall Street WRF	296A3095.1	155	Yes	2	2	2x2	Regular Monitoring	Point Repair	PE		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			5/1/1986
1981	Marshall Street WRF	305B8055.1	153	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	95,656	8			6/1/1981
1982	Marshall Street WRF	258B5045.1	151	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]["Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	32,785	8			6/1/1968
1983	Marshall Street WRF	287B6115.1	150	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	93,549	8			
1984	Marshall Street WRF	251A2025.1	150	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	71,013	8	WILSON BLVD	2023	6/1/1961
1985	Marshall Street WRF	278A2150.1	148	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	112,225	8	JONES ST	2018	6/1/1975
1986	Marshall Street WRF	259B8040.1	146	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	111,369	8	PLEASANT ST	2022	6/1/1966
1987	Marshall Street WRF	268B8005.1	143	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	28,405	8			
1988	Marshall Street WRF	313B7040.1	136	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	127,167	8			6/1/1983
1989	Marshall Street WRF	252B5160.1	135	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	94,214	8			6/1/1961
1990	Marshall Street WRF	286B7065.1	134	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	12	N GARDEN AVE	2021	
1991	Marshall Street WRF	287A1040.1	131	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	111,685	8	BOOTH AVE	2021	
1992	Marshall Street WRF	270A2045.1	130	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
1993	Marshall Street WRF	287A3070.1	128	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	84,842	8	GROVE ST	2021	2/3/2008
1994	Marshall Street WRF	314A3195.1	124	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	92,417	8			6/1/1972
1995	Marshall Street WRF	296B8115.1	123	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	100,570	12	MARK DR	2018	
1996	Marshall Street WRF	270B5100.1	111	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	69,814	8	SHERWOOD ST	2018	
1997	Marshall Street WRF	287B5095.1	104	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]["Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	47,196	8			
1998	Marshall Street WRF	287B6165.1	104	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	74,733	8			
1999	Marshall Street WRF	305B8080.1	97	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	60,465	8			6/1/1973
2000	Marshall Street WRF	252B6090.1	96	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	65,189	8			6/1/1970
2001	Marshall Street WRF	306A4170.1	96	Yes	2	2	2x2	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	43,700	8			6/1/1999
2002	Marshall Street WRF	260A2160.1	96	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	APACHE TRL	2022	
2003	Marshall Street WRF	313B7070.1	91	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1973
2004	Marshall Street WRF	269A3175.1	84	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	62,387	8			
2005	Marshall Street WRF	287B8130.1	79	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	67,754	8			
2006	Marshall Street WRF	296A2095.1	73	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	50,335	8			
2007	Marshall Street WRF	287B6080.1	68	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	81,500	8			
2008	Marshall Street WRF	287B7005.1	67	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	41,818	8	LAURA ST	2020	6/1/1967
2009	Marshall Street WRF	285B5055.1	60	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]["Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	13,085	8			
2010	Marshall Street WRF	252B5065.1	52	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	32,682	10			6/1/1978
2011	Marshall Street WRF	251A2045.1	45	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	21,632	8			6/1/1961
2012	Marshall Street WRF	253A1075.1	45	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	DAWN DR	2019	6/1/1960
2013	Marshall Street WRF	252B5075.1	42	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	26,522	8			6/1/1978
2014	Marshall Street WRF	251A1085.1	40	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	24,704	8	GRANADA ST	2023	6/1/1961
2015	Marshall Street WRF	288A1135.1	31	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	19,536	8	PARK ST	2020	
2016	Marshall Street WRF	278A4085.1	26	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	10,228	8			
2017	Marshall Street WRF	314A4170.1	23	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	14,260	8			9/26/2006
2018	Marshall Street WRF	251A1080.1	19	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	16,848	8	GRANADA ST	2023	6/1/1961
2019	Marshall Street WRF	277B7020.1	16	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	10,104	10			
2020	Marshall Street WRF	296B5015.1	124	Yes	1	5	1x5	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	24			
2021	Marshall Street WRF	278B7065.1	486	Yes	1	4	1x4	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			
2022	Marshall Street WRF	296B5085.1	355	Yes	1	4	1x4	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18			
2023	Marshall Street WRF	278B5005.1	337	Yes	1	4	1x4	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	48,416	30			
2024	Marshall Street WRF	269B6025.1	302	Yes	1	4	1x4	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			
2025	Marshall Street WRF	260A3105.1	285	Yes	1	4	1x4	Regular Monitoring	No Action	PVC		[Number of Rehabilitations]["RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	12			6/1/1980
2026	Marshall Street WRF	296B5090.1	273	Yes	1	4	1x4	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18			
2027	Marshall Street WRF	296B5196.1	256	Yes	1	4	1x4	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12			
2028	Marshall Street WRF	296B5205.1	248	Yes	1	4	1x4	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15			
2029	Marshall Street WRF	278B6015.1	198	Yes	1	4	1x4	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	10			
2030	Marshall Street WRF	287B7025.1	195	Yes	1	4	1x4	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2031	Marshall Street WRF	260A3075.1	153	Yes	1	4	1x4	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2032	Marshall Street WRF	278B7075.1	148	Yes	1	4	1x4	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			
2033	Marshall Street WRF	287B6190.1	139	Yes	1	4	1x4	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	24			
2034	Marshall Street WRF	296A3160.1	63	Yes	1	4	1x4	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15			
2035	Marshall Street WRF	287B7030.1	4	Yes	1	4	1x4	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	9,578	12			
2036	Marshall Street WRF	296A3150.1	845	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	194,658	8			
2037	Marshall Street WRF	295B8055.1	693	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2038	Marshall Street WRF	287A3085.1	650	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	152,317	8	BOOTH AVE	2021	
2039	Marshall Street WRF	269A4130.1	570	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	12	184,874	8			
2040	Marshall Street WRF	227A4005.1	512	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	ELDORADO AVE	2021	
2041	Marshall Street WRF	268B8155.1	423	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
2042	Marshall Street WRF	313B7050.1	403	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1983
2043	Marshall Street WRF	251B6145.1	400	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			2/12/2016
2044	Marshall Street WRF	269B6140.1	400	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	16,139	30			
2045	Marshall Street WRF	270A4075.1	396	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	2	21,850	8	CLARK ST	2018	
2046	Marshall Street WRF	278B8045.1	394	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	16,139	30			
2047	Marshall Street WRF	314A3170.1	389	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	11	143,335	10			6/1/1966
2048	Marshall Street WRF	287B8005.1	382	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	24			
2049	Marshall Street WRF	269A4150.1	376	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	7	117,782	8			
2050	Marshall Street WRF	253A3135.1	369	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	11	136,187	8			6/1/1978
2051	Marshall Street WRF	252A4031.1	367	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18	BYRAM DR	2019	8/1/2003
2052	Marshall Street WRF	253B5080.1	366	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	9	125,585	8			6/1/1980
2053	Marshall Street WRF	287B5030.1	363	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			
2054	Marshall Street WRF	260A3031.1	356	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2055	Marshall Street WRF	258A3085.1	355	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	11	133,122	8			6/1/1963
2056	Marshall Street WRF	287B8110.1	354	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	24			
2057	Marshall Street WRF	238A3025.1	354	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	BAY ESPLANADE	2021	2/3/2008
2058	Marshall Street WRF	269B6100.1	347	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			
2059	Marshall Street WRF	296B5080.1	346	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18			6/1/1969
2060	Marshall Street WRF	267B5030.1	342	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1964
2061	Marshall Street WRF	306A4070.1	340	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	9	119,781	8			6/1/1969
2062	Marshall Street WRF	286B7080.1	335	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	14	273,779	8	LAURA ST	2021	
2063	Marshall Street WRF	311B6050.1	332	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	98,955	15			6/1/1973
2064	Marshall Street WRF	305B5085.1	330	Yes	1	3	1x3	Regular Monitoring	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2065	Marshall Street WRF	306A3075.1	329	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15			
2066	Marshall Street WRF	261A3035.1	328	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1976
2067	Marshall Street WRF	242B7005.1	328	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	11	254,777	8			6/1/1986
2068	Marshall Street WRF	287A2064.1	327	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15	PIERCE ST	2021	
2069	Marshall Street WRF	242B7010.1	326	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1986
2070	Marshall Street WRF	269B8095.1	325	Yes	1	3	1x3	Regular Monitoring	No Action	PVC		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	10			6/1/1983
2071	Marshall Street WRF	278B5060.1	323	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	7	106,278	8			
2072	Marshall Street WRF	306A3105.1	323	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12			
2073	Marshall Street WRF	296A3020.1	316	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	99,558	8			6/1/1981
2074	Marshall Street WRF	268A2020.1	311	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			2/3/2008
2075	Marshall Street WRF	305B7030.1	308	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1983
2076	Marshall Street WRF	314A2090.1	304	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2077	Marshall Street WRF	261A2085.1	304	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1971
2078	Marshall Street WRF	314A2085.1	303	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2079	Marshall Street WRF	260A3060.1	302	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1980
2080	Marshall Street WRF	253A3085.1	301	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1973
2081	Marshall Street WRF	253A3105.1	301	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	8	106,353	8			6/1/1973
2082	Marshall Street WRF	296A1030.1	301	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			8/30/2005
2083	Marshall Street WRF	259B7060.1	300	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	76,262	8	VENETIAN DR	2022	
2084	Marshall Street WRF	296A4180.1	299	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1999
2085	Marshall Street WRF	253A3060.1	299	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	7	100,915	8			6/1/1973
2086	Marshall Street WRF	251A2050.1	298	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	75,852	8	SEDEEVA ST	2023	6/1/1964
2087	Marshall Street WRF	278B8035.1	297	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			
2088	Marshall Street WRF	288A3110.1	297	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING'] >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	N CREST AVE	2020	
2089	Marshall Street WRF	296A3015.1	296	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	4	85,317	8			6/1/1981
2090	Marshall Street WRF	286B8155.1	293	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	74,662	8			
2091	Marshall Street WRF	286B6150.1	290	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2092	Marshall Street WRF	287A1015.1	289	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	78,846	8	BOOTH AVE	2021	
2093	Marshall Street WRF	270A1025.1	289	Yes	1	3	1x3	Regular Monitoring	No Action	FRP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			
2094	Marshall Street WRF	296B7040.1	287	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	9	219,125	8			6/7/2008
2095	Marshall Street WRF	260A2025.1	285	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	APACHE TRL	2022	
2096	Marshall Street WRF	296B5075.1	284	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18			
2097	Marshall Street WRF	295B5025.1	282	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	77,238	8	PALM AVE	2020	
2098	Marshall Street WRF	288A1030.1	280	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING'] >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	N SAN REMO AVE	2020	6/1/1967
2099	Marshall Street WRF	314A1005.1	279	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING'] >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	10			6/1/1966
2100	Marshall Street WRF	295B7020.1	277	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	8	101,233	8			
2101	Marshall Street WRF	287B7100.1	277	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	24			
2102	Marshall Street WRF	288A3120.1	275	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	CLEVELAND ST	2020	
2103	Marshall Street WRF	288A3045.1	275	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING'] >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	GROVE ST	2020	
2104	Marshall Street WRF	287A2005.1	270	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15	PIERCE ST	2021	
2105	Marshall Street WRF	287B7070.1	269	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			
2106	Marshall Street WRF	306A3110.1	266	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2107	Marshall Street WRF	253A3145.1	262	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	87,936	8			6/1/1978
2108	Marshall Street WRF	296B5161.1	261	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12			
2109	Marshall Street WRF	296A3140.1	260	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15			
2110	Marshall Street WRF	279A4010.1	251	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	7	90,603	8			6/1/1963
2111	Marshall Street WRF	305B5145.1	248	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	12			
2112	Marshall Street WRF	253B5065.1	244	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	79,037	8			6/1/1980
2113	Marshall Street WRF	296A3120.1	244	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			5/1/1986
2114	Marshall Street WRF	286B9020.1	239	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	76,475	8	PARK ST	2021	
2115	Marshall Street WRF	286B8135.1	239	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	84,681	10			6/1/1980
2116	Marshall Street WRF	278B8040.1	238	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			
2117	Marshall Street WRF	296A4110.1	238	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1999
2118	Marshall Street WRF	286B8130.1	237	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	82,525	8			6/1/1980
2119	Marshall Street WRF	268B8065.1	237	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	9	187,631	8			
2120	Marshall Street WRF	287A3120.1	236	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	10			
2121	Marshall Street WRF	319B5030.1	234	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1986
2122	Marshall Street WRF	260A3040.1	231	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1980
2123	Marshall Street WRF	287A2225.1	229	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	65,799	8	NE CLEVELAND ST	2021	
2124	Marshall Street WRF	252A2021.1	227	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18	CARLOS AVE	2019	3/1/1983
2125	Marshall Street WRF	287B8035.1	227	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	8	176,689	8			
2126	Marshall Street WRF	286B5015.1	225	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	N OSCEOLA AVE	2021	
2127	Marshall Street WRF	296B5070.1	223	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18			
2128	Marshall Street WRF	305B7025.1	222	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1983
2129	Marshall Street WRF	258A3095.1	221	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	MANDALAY AVE	2021	2/3/2008
2130	Marshall Street WRF	287B7185.1	220	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			5/9/2006
2131	Marshall Street WRF	252A2008.1	219	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18	BYRAM DR	2019	3/1/1983
2132	Marshall Street WRF	286B8200.1	218	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	6	160,939	8			
2133	Marshall Street WRF	261A2055.1	217	Yes	1	3	1x3	Regular Monitoring	No Action	XXX		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	12			
2134	Marshall Street WRF	296A3070.1	216	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			5/1/1986
2135	Marshall Street WRF	261A2030.1	213	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	12			
2136	Marshall Street WRF	242A4145.1	210	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1987
2137	Marshall Street WRF	258A2020.1	206	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	MANDALAY AVE	2021	6/7/2008
2138	Marshall Street WRF	295B8085.1	201	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			6/1/1983
2139	Marshall Street WRF	303B6035.1	199	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	1	134,090	15			6/1/1973
2140	Marshall Street WRF	287B8075.1	197	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	24			
2141	Marshall Street WRF	286B6075.1	194	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	2	138,466	18	PIERCE ST	2021	
2142	Marshall Street WRF	276A2045.1	190	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	128,217	15			6/1/1969
2143	Marshall Street WRF	314A4025.1	184	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	5	65,866	8			6/1/1981
2144	Marshall Street WRF	270B7025.1	183	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	134,074	8	E LEO LN	2018	6/1/1971
2145	Marshall Street WRF	306A3020.1	181	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
2146	Marshall Street WRF	296B7050.1	179	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	6			
2147	Marshall Street WRF	260A3025.1	176	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	134,700	8			6/1/1969
2148	Marshall Street WRF	278B6025.1	175	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	10	N PRESCOTT AVE	2018	
2149	Marshall Street WRF	252A4050.1	175	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	N HIGHLAND AVE	2019	
2150	Marshall Street WRF	278B8005.1	175	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			
2151	Marshall Street WRF	259B7050.1	168	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	47,572	8	CALUMET ST	2022	
2152	Marshall Street WRF	252B5110.1	167	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	10			6/1/1986
2153	Marshall Street WRF	305B7050.1	165	Yes	1	3	1x3	Regular Monitoring	No Action	PVC		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1983
2154	Marshall Street WRF	252A2007.1	165	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18	BYRAM DR	2019	8/1/2003
2155	Marshall Street WRF	296A3005.1	163	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	XXX		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	76,383	8			
2156	Marshall Street WRF	252A3065.1	163	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1973
2157	Marshall Street WRF	306A3095.1	161	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12			
2158	Marshall Street WRF	296A1015.1	161	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			8/30/2005
2159	Marshall Street WRF	269B6120.1	161	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			
2160	Marshall Street WRF	313B7090.1	159	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	129,321	8			6/1/1974
2161	Marshall Street WRF	269B8135.1	158	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1965
2162	Marshall Street WRF	286B8170.1	157	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	45,148	8			
2163	Marshall Street WRF	253A1050.1	155	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8	DAWN DR	2019	6/1/1968
2164	Marshall Street WRF	288A4015.1	148	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	43,019	8	FRANKLIN ST	2020	
2165	Marshall Street WRF	286B7060.1	144	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	42,179	8	GROVE ST	2021	
2166	Marshall Street WRF	269B6070.1	140	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			
2167	Marshall Street WRF	252A2032.1	137	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18	BARBARA AVE	2019	3/1/1983
2168	Marshall Street WRF	296B5195.1	134	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	45,144	8			6/1/1961
2169	Marshall Street WRF	253A3025.1	133	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	44,948	8			6/1/1973
2170	Marshall Street WRF	287A1065.1	131	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	92,945	10	N PROSPECT AVE	2021	
2171	Marshall Street WRF	252A2031.1	129	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18	BYRAM DR	2019	3/1/1983
2172	Marshall Street WRF	296B5155.1	126	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	78,410	8			6/1/1965
2173	Marshall Street WRF	288A1115.1	118	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	PARK ST	2020	
2174	Marshall Street WRF	287A2140.1	115	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	81,896	8			
2175	Marshall Street WRF	278A2025.1	110	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18	VINE AVE	2018	
2176	Marshall Street WRF	306A4030.1	109	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	78,046	8			6/1/1969
2177	Marshall Street WRF	287B8020.1	104	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	24			
2178	Marshall Street WRF	253A1135.1	102	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	64,647	10			6/1/1961
2179	Marshall Street WRF	287A5000.1	101	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	68,785	10			
2180	Marshall Street WRF	286B8145.1	98	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	66,733	10			6/1/1980
2181	Marshall Street WRF	252A3085.1	92	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	30,901	8			6/1/1973
2182	Marshall Street WRF	296B5131.1	90	Yes	1	3	1x3	Regular Monitoring	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12			
2183	Marshall Street WRF	258B8050.1	80	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			2/3/2008
2184	Marshall Street WRF	269B6080.1	77	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2185	Marshall Street WRF	287B8015.1	74	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	46,365	8			
2186	Marshall Street WRF	288A3095.1	74	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	65,992	8			
2187	Marshall Street WRF	277B8105.1	70	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	JONES ST	2018	
2188	Marshall Street WRF	296A3065.1	68	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18			
2189	Marshall Street WRF	287B8025.1	67	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	42,019	8			
2190	Marshall Street WRF	305B5010.1	65	Yes	1	3	1x3	Regular Monitoring	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2191	Marshall Street WRF	296A1055.1	59	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	10			
2192	Marshall Street WRF	286B8195.1	58	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	36,000	8			
2193	Marshall Street WRF	252A3090.1	55	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1973
2194	Marshall Street WRF	314B5065.1	52	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	32,333	8			
2195	Marshall Street WRF	277B5015.1	52	Yes	1	3	1x3	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2196	Marshall Street WRF	287A3080.1	50	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	36,177	8			
2197	Marshall Street WRF	278B8050.1	50	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	24			
2198	Marshall Street WRF	278A2010.1	49	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18	VINE AVE	2018	2/3/2008
2199	Marshall Street WRF	286B7210.1	48	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	PARK ST	2021	
2200	Marshall Street WRF	296B5010.1	48	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12			
2201	Marshall Street WRF	286B7035.1	47	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15	GROVE ST	2021	1/1/1990
2202	Marshall Street WRF	306A1055.1	46	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	28,907	8			6/1/1983
2203	Marshall Street WRF	276A2040.1	43	Yes	1	3	1x3	Regular Monitoring	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	16			2/27/2009
2204	Marshall Street WRF	287A2156.1	41	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	25,900	8			6/1/1965
2205	Marshall Street WRF	260A3110.1	39	Yes	1	3	1x3	Regular Monitoring	No Action	PVC		[Count of Defects] >= (1) is No	Y-N	0	-	12			6/1/1980
2206	Marshall Street WRF	277B7144.1	38	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12			
2207	Marshall Street WRF	287A5080.1	35	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2208	Marshall Street WRF	286B6090.1	34	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	23,277	18	S OSCEOLA AVE	2021	
2209	Marshall Street WRF	285A3035.1	31	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	19,534	8			
2210	Marshall Street WRF	276A2075.1	25	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	10			2/27/2009
2211	Marshall Street WRF	296A3110.1	24	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15			
2212	Marshall Street WRF	296A1005.1	23	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			8/30/2005
2213	Marshall Street WRF	287B5035.1	22	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	13,724	8	KENWOOD AVE	2021	
2214	Marshall Street WRF	295B1005.2	21	Yes	1	3	1x3	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2215	Marshall Street WRF	276A2065.1	21	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15			2/27/2009
2216	Marshall Street WRF	269A3015.1	19	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2217	Marshall Street WRF	314A4020.1	18	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2218	Marshall Street WRF	287A2030.1	13	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15	PIERCE ST	2021	
2219	Marshall Street WRF	287A2110.1	4	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	2,587	8			
2220	Marshall Street WRF	252A2005.1	19	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	21,530	8	BYRAM DR	2019	8/1/2003
2221	Marshall Street WRF	252A2005.1	5	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	21,530	8	BYRAM DR	2019	
2222	Marshall Street WRF	249A3025.1	521	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	20	423,978	10	GARDENIA ST	2021	6/1/1961
2223	Marshall Street WRF	260A2140.1	481	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	13	170,566	8			
2224	Marshall Street WRF	276A4050.1	430	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2225	Marshall Street WRF	269A2025.1	428	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2226	Marshall Street WRF	270B7040.1	420	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	112,395	8	SCOTT ST	2018	
2227	Marshall Street WRF	268A2010.1	415	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			2/3/2008
2228	Marshall Street WRF	287B5125.1	414	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	115,910	8			
2229	Marshall Street WRF	269A1020.1	412	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	14	160,602	8			
2230	Marshall Street WRF	295B8035.1	404	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	103,861	8			
2231	Marshall Street WRF	261B5095.1	402	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1973
2232	Marshall Street WRF	261B5050.1	401	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1973
2233	Marshall Street WRF	276A4035.1	400	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2234	Marshall Street WRF	252A1015.1	398	Yes	1	2	1x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			2/3/2008
2235	Marshall Street WRF	253B5085.1	397	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	12	147,260	8			6/1/1980
2236	Marshall Street WRF	288A2030.1	396	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	121,986	8	PARK ST	2020	
2237	Marshall Street WRF	270B7035.1	394	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	101,580	8	SCOTT ST	2018	
2238	Marshall Street WRF	277A1010.1	394	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2239	Marshall Street WRF	288B5010.1	393	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1962
2240	Marshall Street WRF	252A2135.1	392	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	96,139	8			6/1/1962
2241	Marshall Street WRF	261B5065.1	389	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	120,517	8			6/1/1973
2242	Marshall Street WRF	261B5075.1	387	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1973
2243	Marshall Street WRF	276A1075.1	387	Yes	1	2	1x2	Regular Monitoring	Point Repair	DIP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			4/30/2009
2244	Marshall Street WRF	261B6045.1	386	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			1/1/1973
2245	Marshall Street WRF	279B5105.1	386	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	12	144,893	8			6/1/1963
2246	Marshall Street WRF	269B8060.1	384	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Count of Defects]{"Def_Code" LIKE 'O%' AND "Def_Type" = 'SERVICE' } >= (1) is No	Y-Y-N-N-N-N-Y-N-N-N	0	-	8			
2247	Marshall Street WRF	278A4005.1	383	Yes	1	2	1x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	NA	2018	
2248	Marshall Street WRF	249B5020.1	382	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	11	139,085	8			6/1/1968
2249	Marshall Street WRF	313B7035.1	380	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1983

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
2250	Marshall Street WRF	314A2030.1	377	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1981
2251	Marshall Street WRF	296B6065.1	369	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			
2252	Marshall Street WRF	261B6035.1	368	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	11	136,060	8			1/1/1973
2253	Marshall Street WRF	261B6015.1	366	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	12	140,434	8			1/1/1973
2254	Marshall Street WRF	276B7005.1	364	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			
2255	Marshall Street WRF	261A3095.1	362	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	9	124,687	8			6/1/1974
2256	Marshall Street WRF	305B8085.1	361	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1983
2257	Marshall Street WRF	249A1010.1	361	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	11	134,389	8	GARDENIA ST	2021	6/1/1963
2258	Marshall Street WRF	251A4065.1	360	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1964
2259	Marshall Street WRF	249A2020.1	358	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	12	278,538	8	ELDORADO AVE	2021	6/1/1963
2260	Marshall Street WRF	261B6030.1	357	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	11	133,531	8			1/1/1973
2261	Marshall Street WRF	261B6020.1	354	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	9	122,892	8			1/1/1973
2262	Marshall Street WRF	314A2010.1	354	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2263	Marshall Street WRF	270B5110.1	352	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Count of Defects] >= (1) is No	Y-N	0	-	8			6/1/1970
2264	Marshall Street WRF	261B6025.1	351	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	11	132,267	8			1/1/1973
2265	Marshall Street WRF	267B8075.1	350	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	103,693	15			6/7/2008
2266	Marshall Street WRF	270A1065.1	348	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	8	116,594	8			
2267	Marshall Street WRF	270B5101.1	347	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1970
2268	Marshall Street WRF	261A4155.1	347	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	106,350	8			
2269	Marshall Street WRF	252B5130.1	347	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	106,300	8			6/1/1978
2270	Marshall Street WRF	288A3080.1	344	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	LAURA ST	2020	
2271	Marshall Street WRF	277B8020.1	342	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12	MAPLE ST	2018	
2272	Marshall Street WRF	314A2040.1	342	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2273	Marshall Street WRF	314A2035.1	341	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2274	Marshall Street WRF	251A4060.1	341	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	10	125,103	8			6/1/1964
2275	Marshall Street WRF	270A1070.1	341	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	10	125,014	8			
2276	Marshall Street WRF	314A2060.1	340	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2277	Marshall Street WRF	249A3040.1	336	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	84,077	8	GARDENIA ST	2021	6/1/1963
2278	Marshall Street WRF	252B5115.1	334	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1986
2279	Marshall Street WRF	288A2145.1	332	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	5	98,239	8	DE LEON ST	2020	
2280	Marshall Street WRF	271A1025.1	332	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2281	Marshall Street WRF	270A1020.1	331	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2282	Marshall Street WRF	249A4135.1	327	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	11	127,146	8	JEWEL ST	2021	6/1/1963
2283	Marshall Street WRF	278A2145.1	326	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	86,857	8	PENNSYLVANIA AVE	2018	
2284	Marshall Street WRF	238A4130.1	326	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	LAUREL ST	2021	2/3/2008
2285	Marshall Street WRF	249A4020.1	325	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	VERBENA ST	2021	6/7/2008
2286	Marshall Street WRF	249A4100.1	325	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	4	91,655	8	BOHENIA CIR S	2021	6/1/1963
2287	Marshall Street WRF	269B7045.1	324	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	10	121,472	8			6/1/1981
2288	Marshall Street WRF	306A4100.1	324	Yes	1	2	1x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2289	Marshall Street WRF	277B7140.1	321	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12			
2290	Marshall Street WRF	286B7190.1	320	Yes	1	2	1x2	Regular Monitoring	No Action	PVC		[Number of Rehabilitations]("RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	PARK ST	2021	
2291	Marshall Street WRF	261A3070.1	318	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1976
2292	Marshall Street WRF	288A1085.1	317	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	9	114,873	8	N SAN REMO AVE	2020	
2293	Marshall Street WRF	305B7055.1	317	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1983
2294	Marshall Street WRF	287A4050.1	317	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	16	272,784	8			
2295	Marshall Street WRF	276A1065.1	316	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			2/27/2009
2296	Marshall Street WRF	278B6090.1	316	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	79,701	8	NA	2018	
2297	Marshall Street WRF	252A1040.1	316	Yes	1	2	1x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	RIDGELANE RD	2019	2/3/2008
2298	Marshall Street WRF	314A2070.1	313	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2299	Marshall Street WRF	269B7080.1	313	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2300	Marshall Street WRF	287A2095.1	311	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	83,469	8			6/1/1965
2301	Marshall Street WRF	278A1025.1	310	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	9	113,376	8			
2302	Marshall Street WRF	297A1100.1	310	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
2303	Marshall Street WRF	238A4065.1	309	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	BAY ESPLANADE	2021	2/3/2008
2304	Marshall Street WRF	314A2095.1	309	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2305	Marshall Street WRF	249A2025.1	308	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	10	237,535	8	ELDORADO AVE	2021	6/1/1963
2306	Marshall Street WRF	251A2085.1	308	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1964
2307	Marshall Street WRF	260B8035.1	305	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	225,557	8			
2308	Marshall Street WRF	306A4125.1	305	Yes	1	2	1x2	Regular Monitoring	Point Repair	LIN		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2309	Marshall Street WRF	278A4100.1	304	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	97,045	8	N MADISON AVE	2018	
2310	Marshall Street WRF	314A3050.1	304	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	8	107,041	8			6/1/1966
2311	Marshall Street WRF	288A3035.1	302	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	13	248,562	8	GROVE ST	2020	
2312	Marshall Street WRF	286B8050.1	301	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	S GARDEN AVE	2021	
2313	Marshall Street WRF	269A3030.1	300	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2314	Marshall Street WRF	270B5060.1	297	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			
2315	Marshall Street WRF	252B6115.1	294	Yes	1	2	1x2	Regular Monitoring	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1970
2316	Marshall Street WRF	270B7090.1	292	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	74,445	8	SHERWOOD ST	2018	
2317	Marshall Street WRF	287B6020.1	292	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2318	Marshall Street WRF	251A3030.1	291	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	10	226,626	8	BROADWAY	2023	6/1/1969
2319	Marshall Street WRF	279B5080.1	288	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	4	83,635	8			6/1/1965
2320	Marshall Street WRF	260B8025.1	287	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	73,395	8			
2321	Marshall Street WRF	288A2055.1	286	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	S SAN REMO AVE	2020	
2322	Marshall Street WRF	314A3150.1	285	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
2323	Marshall Street WRF	253A2050.1	285	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	7	97,967	8			6/1/1978
2324	Marshall Street WRF	297A1105.1	281	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
2325	Marshall Street WRF	296B7045.1	280	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/7/2008
2326	Marshall Street WRF	288A1065.1	278	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	9	213,463	8	N SAN REMO AVE	2020	6/1/1967
2327	Marshall Street WRF	296B5180.1	277	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2328	Marshall Street WRF	269B7105.1	277	Yes	1	2	1x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2329	Marshall Street WRF	295B5020.2	276	Yes	1	2	1x2	Regular Monitoring	Point Repair	XXX		[Number of Rehabilitations]("RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	BAY AVE	2020	
2330	Marshall Street WRF	269A4100.1	275	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			6/1/1985
2331	Marshall Street WRF	238A4100.1	275	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	LAUREL ST	2021	2/3/2008
2332	Marshall Street WRF	252B5035.1	275	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			6/1/1978
2333	Marshall Street WRF	268B8140.1	273	Yes	1	2	1x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2334	Marshall Street WRF	258A3070.1	273	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			2/3/2008
2335	Marshall Street WRF	258B8055.1	273	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	8	100,268	8			2/3/2008
2336	Marshall Street WRF	238A4025.1	272	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	NARCISSUS AVE	2021	6/7/2008
2337	Marshall Street WRF	322A1025.1	270	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	74,689	8			
2338	Marshall Street WRF	261A2045.1	270	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1971
2339	Marshall Street WRF	252B6015.1	269	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1961
2340	Marshall Street WRF	287B8055.1	267	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	11	216,896	8			
2341	Marshall Street WRF	279A3035.1	267	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12			6/1/1972
2342	Marshall Street WRF	277B6005.1	264	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	10	209,970	8	N OSCEOLA AVE	2018	
2343	Marshall Street WRF	261A2005.1	263	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1971
2344	Marshall Street WRF	287A3075.1	262	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	4	77,947	8	NE CLEVELAND ST	2021	
2345	Marshall Street WRF	288A1070.1	262	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8	LAURA ST	2020	6/1/1967
2346	Marshall Street WRF	296B8030.1	261	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	S EVERGREEN AVE	2018	
2347	Marshall Street WRF	253B5070.1	261	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	5	82,636	8			6/1/1980
2348	Marshall Street WRF	278A1105.1	260	Yes	1	2	1x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	10	NA	2018	6/1/1997

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
2349	Marshall Street WRF	249A4095.1	260	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8	BAY ESPLANADE	2021	6/7/2008
2350	Marshall Street WRF	279B6060.1	260	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	197,283	8			6/1/1963
2351	Marshall Street WRF	314A4010.1	257	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	11	210,339	8			6/1/1970
2352	Marshall Street WRF	314A1040.1	256	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	10,925	8			
2353	Marshall Street WRF	269A2050.1	255	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	10,925	8			
2354	Marshall Street WRF	252B6010.1	255	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1961
2355	Marshall Street WRF	261A2040.1	253	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1971
2356	Marshall Street WRF	276A1080.1	253	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	95,915	8			2/27/2009
2357	Marshall Street WRF	260B6005.1	250	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	195,894	8			6/1/1974
2358	Marshall Street WRF	261A2010.1	250	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1971
2359	Marshall Street WRF	277B1030.1	248	Yes	1	2	1x2	Regular Monitoring	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	N OSCEOLA AVE	2018	11/21/2008
2360	Marshall Street WRF	269B7085.1	245	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	10,925	8			
2361	Marshall Street WRF	288A1120.1	244	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	187,476	8	PARK ST	2020	
2362	Marshall Street WRF	295B5085.1	243	Yes	1	2	1x2	Regular Monitoring	No Action	PVC		[Count of Defects] >= (1) is No	Y-N	0	-	8	PINE ST	2020	
2363	Marshall Street WRF	306B7035.1	243	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	181,462	8			
2364	Marshall Street WRF	277B8100.1	243	Yes	1	2	1x2	Regular Monitoring	Point Repair	LIN		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	12	JONES ST	2018	
2365	Marshall Street WRF	278A1035.1	242	Yes	1	2	1x2	Regular Monitoring	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2366	Marshall Street WRF	296B5165.1	240	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	179,496	8			
2367	Marshall Street WRF	270B7045.1	240	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	10,925	8	E LEO LN	2018	6/1/1971
2368	Marshall Street WRF	261A3100.1	237	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1976
2369	Marshall Street WRF	253A2025.1	234	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	176,130	8			6/1/1978
2370	Marshall Street WRF	268B8115.1	232	Yes	1	2	1x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2371	Marshall Street WRF	253B5005.1	231	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	76,175	8			6/1/1979
2372	Marshall Street WRF	269B7050.1	229	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	172,941	8			6/1/1981
2373	Marshall Street WRF	306A1040.1	227	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	85,373	8			6/1/1999
2374	Marshall Street WRF	251A1115.1	227	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	181,681	8			6/1/1964
2375	Marshall Street WRF	288A1035.1	227	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	181,441	8	GROVE ST	2020	6/1/1967
2376	Marshall Street WRF	276A2005.1	225	Yes	1	2	1x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	10,925	8			
2377	Marshall Street WRF	269A3045.1	222	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	10,925	8			
2378	Marshall Street WRF	238A4005.1	221	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	10,925	8	BRUCE AVE	2021	2/3/2008
2379	Marshall Street WRF	313B8105.1	221	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	10,925	8			10/28/2009
2380	Marshall Street WRF	278A1110.1	220	Yes	1	2	1x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	10,925	10			6/1/1997
2381	Marshall Street WRF	314A4045.1	219	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	171,460	8			
2382	Marshall Street WRF	252B5095.1	217	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1978
2383	Marshall Street WRF	252B6020.1	215	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1961
2384	Marshall Street WRF	260A2145.1	211	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	APACHE TRL	2022	
2385	Marshall Street WRF	253A2010.1	211	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	76,723	8			6/1/1978
2386	Marshall Street WRF	252B7100.1	208	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1970
2387	Marshall Street WRF	286B6091.1	206	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	153,727	8	PIERCE ST	2021	
2388	Marshall Street WRF	278B5045.1	206	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			
2389	Marshall Street WRF	252B5135.1	206	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			6/1/1978
2390	Marshall Street WRF	261A1125.1	205	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1963
2391	Marshall Street WRF	286B5085.1	204	Yes	1	2	1x2	Regular Monitoring	No Action	FRP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			
2392	Marshall Street WRF	306B5050.1	200	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	64,412	8			6/1/1962
2393	Marshall Street WRF	260A4030.1	199	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	159,246	8			
2394	Marshall Street WRF	251A1015.1	199	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	WILSON BLVD	2023	6/1/1969
2395	Marshall Street WRF	276A2050.1	198	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	148,758	8			2/27/2009
2396	Marshall Street WRF	314A3035.1	198	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1964
2397	Marshall Street WRF	279B6050.1	198	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	73,919	8			6/1/1963
2398	Marshall Street WRF	287B8085.1	193	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	57,990	8			
2399	Marshall Street WRF	287B5130.1	192	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	62,687	8			
2400	Marshall Street WRF	270B7060.1	190	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	138,887	8	S LEO LN	2018	6/1/1971
2401	Marshall Street WRF	277B6015.1	190	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	138,526	8	N OSCEOLA AVE	2018	
2402	Marshall Street WRF	322A1045.1	187	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2403	Marshall Street WRF	314A3125.1	187	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1966
2404	Marshall Street WRF	287A1100.1	185	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	10			2/3/2008
2405	Marshall Street WRF	295B6090.1	183	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			9/6/2016
2406	Marshall Street WRF	287B5135.1	181	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
2407	Marshall Street WRF	252B5030.1	180	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	60,109	8			6/1/1978
2408	Marshall Street WRF	287B7175.1	179	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			
2409	Marshall Street WRF	277B1025.1	177	Yes	1	2	1x2	Regular Monitoring	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	N OSCEOLA AVE	2018	11/21/2008
2410	Marshall Street WRF	253A2110.1	176	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1978
2411	Marshall Street WRF	268B7020.1	173	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	48,628	8	SUNSET DR	2022	
2412	Marshall Street WRF	260A2070.1	172	Yes	1	2	1x2	Regular Monitoring	No Action	FRP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	APACHE TRL	2022	
2413	Marshall Street WRF	251A4080.1	171	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	58,123	8			6/1/1964
2414	Marshall Street WRF	276A1215.1	170	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	6			4/30/2009
2415	Marshall Street WRF	253A2070.1	169	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	57,787	8			6/1/1978
2416	Marshall Street WRF	296B8085.1	169	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	57,703	8			
2417	Marshall Street WRF	269B7030.1	164	Yes	1	2	1x2	Regular Monitoring	No Action	PVC		[Count of Defects] >= (1) is No	Y-N	0	-	10			6/1/1987
2418	Marshall Street WRF	252B5120.1	163	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1986
2419	Marshall Street WRF	251A1120.1	159	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1964
2420	Marshall Street WRF	269A2185.2	156	Yes	1	2	1x2	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1969
2421	Marshall Street WRF	238A4145.1	154	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	BRUCE AVE	2021	2/3/2008
2422	Marshall Street WRF	287B6110.1	154	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
2423	Marshall Street WRF	287B6120.1	153	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	115,225	8			
2424	Marshall Street WRF	261A2050.1	150	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	0	-	8			6/1/1971
2425	Marshall Street WRF	287B5100.1	148	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	53,117	8			
2426	Marshall Street WRF	278A2070.1	148	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	107,075	8	PLAZA ST	2018	
2427	Marshall Street WRF	269B7090.1	146	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	10			6/1/1987
2428	Marshall Street WRF	277B7085.1	145	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	115,575	8			
2429	Marshall Street WRF	242A4055.1	144	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	104,646	8			6/1/1975
2430	Marshall Street WRF	287B6070.1	143	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	41,927	8			
2431	Marshall Street WRF	314A3190.1	142	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	103,775	8			6/1/1972
2432	Marshall Street WRF	279A2155.1	142	Yes	1	2	1x2	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	MARIVA AVE	2020	6/1/1965
2433	Marshall Street WRF	296B8120.1	140	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	97,109	8	S EVERGREEN AVE	2018	
2434	Marshall Street WRF	269A2145.1	140	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	46,281	8			
2435	Marshall Street WRF	251B5145.1	137	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			2/12/2016
2436	Marshall Street WRF	287B6075.1	135	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
2437	Marshall Street WRF	268B7065.1	135	Yes	1	2	1x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2438	Marshall Street WRF	261A2070.1	133	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	0	-	8			6/1/1971
2439	Marshall Street WRF	269B7025.1	130	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	10			6/1/1987
2440	Marshall Street WRF	297A1010.1	129	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
2441	Marshall Street WRF	288A2095.1	128	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
2442	Marshall Street WRF	296A3080.1	127	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			5/1/1986

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
2443	Marshall Street WRF	279A3080.1	123	Yes	1	2	1x2	Regular Monitoring	No Action	LIN		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			
2444	Marshall Street WRF	269B7095.1	123	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	10			6/1/1987
2445	Marshall Street WRF	252B6025.1	121	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	37,204	8			6/1/1970
2446	Marshall Street WRF	261B8040.1	120	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	37,055	8			6/1/1963
2447	Marshall Street WRF	258B5060.1	119	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	104,406	8			6/1/1968
2448	Marshall Street WRF	305B8060.1	117	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	87,816	8			6/1/1981
2449	Marshall Street WRF	286B1225.1	116	Yes	1	2	1x2	Regular Monitoring	Point Repair	CAS		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-N-Y-N-N-N	1	10,925	8	S GARDEN AVE	2021	
2450	Marshall Street WRF	249A4110.1	112	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	35,237	8	IRIS ST	2021	6/1/1963
2451	Marshall Street WRF	269A2175.1	108	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2452	Marshall Street WRF	296A3125.1	106	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			5/1/1986
2453	Marshall Street WRF	252B6075.1	101	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	72,768	8			6/1/1970
2454	Marshall Street WRF	261A4135.1	95	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			
2455	Marshall Street WRF	296A3075.1	93	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			5/1/1986
2456	Marshall Street WRF	296B5020.1	88	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	64,850	8			
2457	Marshall Street WRF	288A2045.1	88	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	64,692	8			
2458	Marshall Street WRF	269A2165.1	87	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMAIN.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1969
2459	Marshall Street WRF	314A3115.1	80	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	49,896	8			6/1/1966
2460	Marshall Street WRF	258A3020.1	78	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	BAY ESPLANADE	2021	6/1/1983
2461	Marshall Street WRF	269A2185.1	76	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1969
2462	Marshall Street WRF	295B6070.1	76	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	14	112,515	8			9/6/2016
2463	Marshall Street WRF	252B8100.1	70	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	48,611	8			6/1/1970
2464	Marshall Street WRF	286B1220.1	61	Yes	1	2	1x2	Regular Monitoring	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	S GARDEN AVE	2021	
2465	Marshall Street WRF	287B6005.1	56	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	34,708	8			
2466	Marshall Street WRF	252B5070.1	55	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	34,260	8			6/1/1978
2467	Marshall Street WRF	277B1005.1	54	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	33,704	8			
2468	Marshall Street WRF	252A1095.1	52	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	32,150	8	RIDGELANE RD	2019	
2469	Marshall Street WRF	286B7115.1	51	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12	N GARDEN AVE	2021	
2470	Marshall Street WRF	305B8065.1	51	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1981
2471	Marshall Street WRF	251A1070.1	50	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	36,191	8			6/1/1969
2472	Marshall Street WRF	296A3090.1	47	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			5/1/1986
2473	Marshall Street WRF	270B5005.1	42	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	26,072	8	RIDGE AVE	2018	
2474	Marshall Street WRF	259B8070.1	38	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	33,783	8	SUNBURST CT	2022	
2475	Marshall Street WRF	296B5105.1	37	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
2476	Marshall Street WRF	296B5035.1	36	Yes	1	2	1x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2477	Marshall Street WRF	267B8095.1	34	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15			
2478	Marshall Street WRF	276A2010.1	26	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	16,414	8			2/27/2009
2479	Marshall Street WRF	269A4080.1	22	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	23,737	8			
2480	Marshall Street WRF	313B7100.1	22	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	13,599	8			6/1/1983
2481	Marshall Street WRF	253A1110.1	21	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	13,104	8	DAWN DR	2019	6/1/1960
2482	Marshall Street WRF	296B5045.1	19	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	12,015	8			
2483	Marshall Street WRF	270A4085.1	323	Yes	1	1	1x1	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	106,083	8	WOOD AVE	2018	6/1/1971
2484	Marshall Street WRF	270A4030.1	313	Yes	1	1	1x1	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	WOOD AVE	2018	6/1/1971
2485	Marshall Street WRF	297A1075.1	299	Yes	1	1	1x1	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
2486	Marshall Street WRF	252B7105.1	216	Yes	1	1	1x1	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1970
2487	East WRF	298B8140.1	324	Yes	3	1	3x1	Regular Monitoring	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	5	90,400	8			
2488	East WRF	299A2005.1	390	Yes	3	1	3x1	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	9	130,823	8			6/1/1970
2489	East WRF	298B8070.1	255	Yes	3	1	3x1	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	76,450	8			
2490	East WRF	298B8075.1	323	Yes	3	1	3x1	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	111,239	8			
2491	East WRF	298B8115.1	413	Yes	3	1	3x1	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	131,318	8			
2492	East WRF	307A1185.1	384	Yes	3	1	3x1	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	116,024	8			
2493	East WRF	307A1310.1	246	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	45,885	8			3/22/1985
2494	East WRF	307A1310.1	100	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	45,885	8			
2495	East WRF	308A2015.1	303	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	204,530	15			6/1/1967
2496	East WRF	291A4090.1	399	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	265,903	12			10/1/1985
2497	East WRF	291A2085.1	396	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	268,690	12			6/1/2013
2498	East WRF	308A1005.1	230	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	155,371	15			6/1/1967
2499	East WRF	314B7105.2	178	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	116,058	12			6/1/1981
2500	East WRF	308A1045.1	263	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	181,417	18			6/1/1967
2501	East WRF	308A3070.1	397	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	272,491	18			6/1/1963
2502	East WRF	308A3080.1	401	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	276,224	18			6/1/1963
2503	East WRF	316B7065.1	81	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	51,015	10			6/1/1966
2504	East WRF	308A1055.1	95	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	65,142	18			6/1/1967
2505	East WRF	298A1080.1	27	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	16,973	10	S ARCTURAS AVE	2021	6/14/2018
2506	East WRF	308A1015.1	228	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	158,833	15			6/1/1967
2507	East WRF	308A3010.1	117	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	80,454	18			6/1/1963
2508	East WRF	291B8095.1	268	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	181,019	15			6/1/1961
2509	East WRF	291B8010.1	275	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	178,588	10			6/1/1974
2510	East WRF	292A2110.1	151	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	101,906	15			6/1/1961
2511	East WRF	306B7010.1	277	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	186,661	15			6/1/1967
2512	East WRF	299A1105.1	62	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	38,590	8			6/1/1964
2513	East WRF	306B6005.1	141	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	93,117	8			6/1/1971
2514	East WRF	299B6055.1	71	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	44,275	8			
2515	East WRF	309B6050.1	302	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	218,690	8	MORELAND DR	2019	6/1/1966
2516	East WRF	306B8010.1	55	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	34,484	8			
2517	East WRF	298A1085.1	97	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	60,338	8	BROOKSIDE DR	2021	
2518	East WRF	315A4125.1	62	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	38,701	8			6/1/1980
2519	East WRF	308A4005.1	86	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	53,722	8			6/1/1967
2520	East WRF	316B7010.1	286	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	203,341	8			6/7/2008
2521	East WRF	299A1110.1	82	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	50,916	8			6/1/1964
2522	East WRF	297B6125.1	207	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	149,435	8			6/1/1967
2523	East WRF	299A1100.1	54	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	33,674	8			6/1/1964
2524	East WRF	300A1005.1	214	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	143,812	8			6/1/1961
2525	East WRF	315B7065.1	133	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	88,214	8			6/1/1980
2526	East WRF	316B7025.1	302	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	11	238,491	8			6/1/1971
2527	East WRF	315B8040.1	93	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	58,221	8			
2528	East WRF	316B7130.1	292	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	187,389	8			6/1/1966
2529	East WRF	316B7045.1	278	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	198,677	8			6/1/1971
2530	East WRF	292A1070.1	344	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	16	289,660	8			6/1/1970
2531	East WRF	307A4005.1	50	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	31,260	8			6/1/1962
2532	East WRF	297B7045.1	197	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	137,671	8			
2533	East WRF	298A1030.1	367	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	236,797	10	S ARCTURAS AVE	2021	6/1/1963
2534	East WRF	306B8205.1	54	Yes	2	3	2x3	Regular Monitoring	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	14,315	15			
2535	East WRF	307A3030.1	280	Yes	2	3	2x3	Regular Monitoring	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	60,967	8			
2536	East WRF	308B5030.1	273	Yes	2	3	2x3	Regular Monitoring	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	4	74,305	8			6/1/1962
2537	East WRF	290A2080.1	358	Yes	2	3	2x3	Regular Monitoring	Lining	CAS		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	77,876	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
2538	East WRF	317B7075.1	151	Yes	2	3	2x3	Regular Monitoring	Lining	FRP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	32,796	8			6/1/1968
2539	East WRF	290B8080.1	370	Yes	2	3	2x3	Regular Monitoring	Lining	LIN		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	2	85,486	8			6/1/1961
2540	East WRF	297A3215.1	17	Yes	2	3	2x3	Regular Monitoring	Lining	CAS		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	3,625	8	SKYVIEW AVE	2021	7/28/2006
2541	East WRF	307A1190.1	359	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	96,923	12			6/1/1981
2542	East WRF	308A1050.1	238	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	73,971	15			6/1/1967
2543	East WRF	316B7095.1	277	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	80,642	10			6/1/1966
2544	East WRF	297B7015.1	144	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	52,244	8			
2545	East WRF	280A2110.1	228	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	LIN		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	92,337	8			
2546	East WRF	274A4015.1	538	Yes	2	3	2x3	Regular Monitoring	Point Repair	CP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	48,416	36			6/1/1964
2547	East WRF	291A2070.1	48	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	54,625	12			6/1/2013
2548	East WRF	308A1010.1	277	Yes	2	3	2x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	76,475	15			2/3/2008
2549	East WRF	309B6090.1	80	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	21,850	6	HARN BLVD	2019	6/1/1966
2550	East WRF	307A1030.1	281	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	12			6/1/1983
2551	East WRF	299B8090.1	42	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	41,734	12			
2552	East WRF	299B8095.1	331	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	12			
2553	East WRF	317A4095.1	139	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	10			5/1/1984
2554	East WRF	298A2010.1	296	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8	SHADY LN	2021	6/1/1962
2555	East WRF	290A2120.1	184	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			6/1/1961
2556	East WRF	316B7035.1	168	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	54,844	8			6/1/1971
2557	East WRF	280A2080.1	266	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
2558	East WRF	316B7050.1	292	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	54,625	8			6/1/1971
2559	East WRF	290B6090.1	208	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	61,180	8			6/1/1961
2560	East WRF	299B6025.1	249	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	4	76,475	8			
2561	East WRF	299B6060.1	186	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
2562	East WRF	290A2110.1	137	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	76,475	8			6/1/1961
2563	East WRF	290A4095.1	423	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1961
2564	East WRF	290A2115.1	206	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	84,778	8			6/1/1961
2565	East WRF	306B8030.1	100	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	73,844	8			
2566	East WRF	298A4135.1	375	Yes	2	3	2x3	Regular Monitoring	Point Repair	CT		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1962
2567	East WRF	299B5065.1	35	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	41,296	8			
2568	East WRF	315B5010.1	265	Yes	2	3	2x3	Regular Monitoring	Point Repair	XXX		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
2569	East WRF	298A1125.1	240	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	45,885	8	BROOKSIDE DR	2021	
2570	East WRF	306B6010.1	328	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	124,545	8			6/1/1971
2571	East WRF	306B8120.1	344	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	237,173	10			6/1/1981
2572	East WRF	306B8185.1	268	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	169,505	10			6/1/1981
2573	East WRF	308A1030.1	330	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	227,528	18			6/1/1967
2574	East WRF	291B7145.1	125	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	78,717	10			
2575	East WRF	298A4125.1	365	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	253,074	8			6/1/1962
2576	East WRF	297B5035.1	260	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	191,978	8	TURNER ST	2021	
2577	East WRF	298B5090.1	268	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	197,456	8			
2578	East WRF	315B6010.1	308	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	232,400	8			6/1/1969
2579	East WRF	314B7165.1	149	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	102,728	8			6/1/1961
2580	East WRF	306B6015.1	121	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	90,773	8			6/1/1971
2581	East WRF	306B8170.1	221	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	157,741	8			
2582	East WRF	297A3065.1	246	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	188,306	8	TURNER ST	2021	
2583	East WRF	290A4025.1	366	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	10	273,289	8			6/1/1962
2584	East WRF	315B7010.1	400	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	279,658	8			6/1/1971
2585	East WRF	297B8015.1	346	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	250,724	8			
2586	East WRF	316B7015.1	241	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	180,494	8			6/7/2008
2587	East WRF	316B7020.1	319	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	238,846	8			6/7/2008
2588	East WRF	306B7050.1	159	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	109,035	8			
2589	East WRF	306B8145.1	243	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	166,634	8			6/1/1961
2590	East WRF	314B8020.1	128	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	90,084	8			
2591	East WRF	314B7130.1	95	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	59,249	8			6/1/1961
2592	East WRF	307A3075.1	152	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	94,883	8			6/1/1970
2593	East WRF	307B5070.1	134	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	93,511	8			
2594	East WRF	315B8120.1	148	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	92,425	8			
2595	East WRF	309B6100.1	330	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	245,821	8	FAIRBANKS DR	2019	6/1/1967
2596	East WRF	299A4140.1	391	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	9	284,026	8			6/1/1970
2597	East WRF	298A2035.1	127	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	89,426	8			6/1/1962
2598	East WRF	314B8080.1	81	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	55,429	8			6/1/1961
2599	East WRF	298A4080.1	328	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	229,908	8			6/1/1962
2600	East WRF	315B7030.1	373	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	10	277,665	8			6/1/1971
2601	East WRF	308A3045.1	226	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	156,116	8			6/1/1962
2602	East WRF	298B7005.1	340	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	227,218	8			
2603	East WRF	307B8015.1	350	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	10	263,452	8			6/1/1971
2604	East WRF	307B8035.1	287	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	199,133	8			6/1/1971
2605	East WRF	308A3005.1	120	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	84,774	8			6/1/1962
2606	East WRF	316B7080.1	27	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	16,774	8			6/1/1971
2607	East WRF	299A2080.1	407	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	293,772	8			6/1/1970
2608	East WRF	299B6015.1	106	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	66,339	8			6/1/1962
2609	East WRF	317B5070.1	299	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	221,347	8	SUMMERLIN DR	2019	6/1/1968
2610	East WRF	315B7015.1	315	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	226,691	8			6/1/1972
2611	East WRF	307A3055.1	145	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	95,572	8			
2612	East WRF	307A1215.1	110	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	68,561	8			
2613	East WRF	306B8160.1	291	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	11	231,726	8			
2614	East WRF	297A3100.1	310	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	223,238	8	SKYVIEW AVE	2021	
2615	East WRF	298A2060.1	195	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	141,689	8			6/1/1962
2616	East WRF	314B7040.1	241	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	165,510	8			6/1/1963
2617	East WRF	314B7200.1	154	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	100,922	8			6/1/1961
2618	East WRF	306B6085.1	306	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	230,835	8			6/1/1971
2619	East WRF	297A3080.1	317	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	227,550	8	TURNER ST	2021	
2620	East WRF	307A1135.1	302	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	228,337	8			
2621	East WRF	314B8005.1	167	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	109,528	8			
2622	East WRF	306B6105.1	317	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	253,012	8			6/1/1971
2623	East WRF	297B8020.1	140	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	97,374	8	PHOENIX AVE	2021	
2624	East WRF	307B5085.1	27	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	16,852	8			6/1/1970
2625	East WRF	297B8050.1	275	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	176,364	8			
2626	East WRF	298B8145.1	112	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	74,837	8			
2627	East WRF	299A4145.1	156	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	107,243	8			
2628	East WRF	306B8115.1	352	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	264,696	8			6/1/1961
2629	East WRF	306B6040.1	365	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	10	272,501	8			6/1/1971
2630	East WRF	306B7120.1	285	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	11	228,148	8			6/1/1969
2631	East WRF	288B6125.1	240	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	169,735	8	YELVINGTON AVE	2021	6/1/1962
2632	East WRF	314B7160.1	276	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	187,261	8			6/1/1961
2633	East WRF	297A3110.1	317	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	10	242,701	8	S LAKE DR	2021	
2634	East WRF	307B8010.1	331	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	241,600	8			6/1/1971

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
2635	East WRF	307B5010.1	340	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	6	236,982	8			6/1/1967
2636	East WRF	306B7130.1	257	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	12	215,643	8			6/1/1969
2637	East WRF	298A4065.1	363	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-N-Y-Y-N	13	286,750	8			6/1/1962
2638	East WRF	289A2090.1	368	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	259,403	8			
2639	East WRF	298A1065.1	325	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	222,805	8			6/1/1962
2640	East WRF	314B7120.1	120	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	95,173	8			
2641	East WRF	314B7170.1	111	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	79,319	8			
2642	East WRF	314B7125.1	370	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	266,211	8			
2643	East WRF	314B7135.1	150	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	113,438	8			
2644	East WRF	314B8115.1	200	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	134,539	8			
2645	East WRF	297A4060.1	257	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	3	170,204	8			
2646	East WRF	297B6020.1	217	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	160,378	8			6/1/1966
2647	East WRF	297B5025.1	157	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	118,209	8	YELVINGTON AVE	2021	
2648	East WRF	307A1080.1	109	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	67,905	8			
2649	East WRF	307A1115.1	41	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	25,279	8			
2650	East WRF	307A1095.1	115	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	71,693	8			
2651	East WRF	307A1200.1	325	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	13	262,708	8			
2652	East WRF	306B7080.1	191	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	8	154,367	8			
2653	East WRF	306B8125.1	167	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	4	119,384	8			6/1/1961
2654	East WRF	297B6015.1	337	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	235,495	8	S KEYSTONE AVE	2021	
2655	East WRF	289B5065.1	265	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	165,247	8			
2656	East WRF	291B7155.1	48	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	2	15,749	10			6/1/1974
2657	East WRF	314B8050.1	262	Yes	2	2	2x2	Regular Monitoring	Lining	LIN		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	3	67,021	8			
2658	East WRF	314B7150.1	289	Yes	2	2	2x2	Regular Monitoring	Lining	LIN		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	3	72,886	8			
2659	East WRF	317B7070.1	289	Yes	2	2	2x2	Regular Monitoring	Lining	FRP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	14	127,758	8			6/1/1968
2660	East WRF	290A2050.1	361	Yes	2	2	2x2	Regular Monitoring	Lining	CAS		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	2	83,489	8			
2661	East WRF	315A1010.1	136	Yes	2	2	2x2	Regular Monitoring	Lining	PVC		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	29,533	8			6/1/1988
2662	East WRF	314B7050.1	290	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	4	78,040	8			
2663	East WRF	297B7140.1	275	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	3	69,740	8			
2664	East WRF	306B8070.1	251	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	67,455	10			6/1/1981
2665	East WRF	298A2030.1	145	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	42,521	8			6/1/1962
2666	East WRF	314B8055.1	130	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	44,257	8			6/1/1961
2667	East WRF	298A4085.1	233	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	76,621	8			6/1/1962
2668	East WRF	297A2035.1	108	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	34,384	8	JASMINE WAY	2018	
2669	East WRF	314B7085.1	242	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	68,605	8			
2670	East WRF	300B7069.1	225	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	69,893	8			
2671	East WRF	300A1015.1	403	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	125,440	8			6/1/1961
2672	East WRF	299A2085.1	391	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	11	138,083	8			6/1/1970
2673	East WRF	298B8130.1	281	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	87,051	8			
2674	East WRF	314B7095.1	115	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	38,191	8			
2675	East WRF	298B6085.1	210	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	71,708	8			6/1/1962
2676	East WRF	297A2080.1	253	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	95,907	8			
2677	East WRF	297A2065.1	261	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	92,783	8			
2678	East WRF	308B6105.1	208	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	66,134	8	ENVOY CT	2020	6/1/1966
2679	East WRF	309B5065.1	315	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	94,351	8			6/1/1980
2680	East WRF	314B6020.1	324	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	113,255	8			
2681	East WRF	300A1020.1	392	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	117,139	8			6/1/1961
2682	East WRF	297A2115.1	341	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	100,167	8			
2683	East WRF	297B6105.1	142	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	46,814	8			6/1/1964
2684	East WRF	292A1050.1	243	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	73,099	8			6/1/1970
2685	East WRF	289B6115.1	248	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	37,145	8			
2686	East WRF	297A3045.1	240	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8	SKYVIEW AVE	2021	
2687	East WRF	315B7025.1	360	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1971
2688	East WRF	299A1010.1	122	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	19,010	8			6/1/1961
2689	East WRF	309B5035.1	398	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8			6/1/1980
2690	East WRF	290A4005.1	364	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	7	160,256	8			2/3/2008
2691	East WRF	307B7060.1	158	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	94,829	8			6/1/1977
2692	East WRF	298B6050.1	328	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1962
2693	East WRF	291B6035.1	254	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	65,550	8			6/1/1968
2694	East WRF	314B7075.1	127	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	83,030	8			6/1/1988
2695	East WRF	315A1015.1	254	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1988
2696	East WRF	297A2020.1	354	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			6/1/1983
2697	East WRF	290A4010.1	355	Yes	2	2	2x2	Regular Monitoring	Point Repair	CAS		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	113,401	8			2/3/2008
2698	East WRF	314B6050.1	301	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
2699	East WRF	306B6025.1	324	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			6/1/1970
2700	East WRF	298A1045.1	278	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8	VIRGINIA LN	2021	
2701	East WRF	299A2025.1	385	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1970
2702	East WRF	308A1040.1	339	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	5	154,261	8			6/1/1970
2703	East WRF	289B6105.1	255	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	54,188	8			
2704	East WRF	288B7010.1	333	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8			
2705	East WRF	288B7005.1	340	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	39,850	8			
2706	East WRF	314B8105.1	134	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			
2707	East WRF	306B6060.1	362	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	76,475	8			6/1/1970
2708	East WRF	299A2055.1	302	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	77,131	8			6/1/1970
2709	East WRF	306B8165.1	285	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	4	164,531	8			
2710	East WRF	314B8040.1	278	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	114,053	8			
2711	East WRF	290A2010.1	312	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	6	120,175	8			2/3/2008
2712	East WRF	315A1025.1	277	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1988
2713	East WRF	306B6055.1	300	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1971
2714	East WRF	314B5050.1	300	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
2715	East WRF	315A1020.1	247	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	84,778	8			6/1/1988
2716	East WRF	315B7045.1	271	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	107,720	8			6/1/1971

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
2717	East WRF	317B5040.1	369	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8	GLENANN DR	2019	6/1/1968
2718	East WRF	315B6065.1	295	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8			
2719	East WRF	298B5115.1	115	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1980
2720	East WRF	297A3060.1	288	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	82,375	8	TURNER ST	2021	
2721	East WRF	288B8010.1	308	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	19,665	8			
2722	East WRF	315B6050.1	370	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			
2723	East WRF	306B6050.1	304	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	54,625	8			6/1/1971
2724	East WRF	306B8055.1	211	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N	1	32,775	8			
2725	East WRF	314B5010.1	320	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N	4	76,475	8			
2726	East WRF	307B5050.1	255	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	43,919	8			
2727	East WRF	297B7110.1	333	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	4	76,475	8	TURNER ST	2021	9/2/2008
2728	East WRF	297B5075.1	335	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	67,516	8	MARION ST	2021	
2729	East WRF	297B5085.1	349	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	SPENCER AVE	2021	
2730	East WRF	289A3040.1	379	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
2731	East WRF	309A3040.1	176	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	3	54,625	8	GLENMOOR CT	2019	6/1/1963
2732	East WRF	308B8055.1	143	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			6/1/1965
2733	East WRF	314B7065.1	47	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	52,221	8			6/1/1988
2734	East WRF	314B8110.1	251	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8			
2735	East WRF	314B8065.1	165	Yes	2	2	2x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
2736	East WRF	314B8135.1	218	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	46,322	8			
2737	East WRF	314B8130.1	344	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
2738	East WRF	315A2030.1	242	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	27,421	8			6/1/1980
2739	East WRF	307A1060.1	113	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	2	32,775	8			
2740	East WRF	307A1105.1	45	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	39,767	8			
2741	East WRF	306B7165.1	263	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	4	315,077	8			
2742	East WRF	297B7105.1	161	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8	TURNER ST	2021	
2743	East WRF	292A2055.1	306	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	3	71,886	8			6/1/1970
2744	East WRF	297B8010.1	353	Yes	2	2	2x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	5	98,325	8	S DUNCAN AVE	2021	
2745	East WRF	289B5050.1	321	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			
2746	East WRF	289B5060.1	272	Yes	2	2	2x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	183,321	8			
2747	East WRF	289B5070.1	143	Yes	2	2	2x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
2748	East WRF	298B8030.1	158	Yes	2	1	2x1	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	118,667	8			
2749	East WRF	298B8020.1	81	Yes	2	1	2x1	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	55,773	8			
2750	East WRF	298B8025.1	156	Yes	2	1	2x1	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	107,593	8			
2751	East WRF	298B8065.1	272	Yes	2	1	2x1	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	204,968	8			
2752	East WRF	298B8090.1	253	Yes	2	1	2x1	Regular Monitoring	Lining	VCP		[Count of Defects]{"Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE' } >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	3	64,943	8			
2753	East WRF	298B8100.1	157	Yes	2	1	2x1	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	55,136	8			
2754	East WRF	307A1195.1	97	Yes	2	1	2x1	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
2755	East WRF	298B8085.1	274	Yes	2	1	2x1	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
2756	East WRF	298B8045.1	302	Yes	2	1	2x1	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
2757	East WRF	298B8040.1	363	Yes	2	1	2x1	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	37,582	8			
2758	East WRF	298B8095.1	315	Yes	2	1	2x1	Regular Monitoring	Point Repair	XXX		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
2759	East WRF	307A1225.1	260	Yes	2	1	2x1	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	6			5/2/2017
2760	East WRF	308A3125.1	102	Yes	1	4	1x4	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	69,118	15			6/1/1967
2761	East WRF	298A1135.1	21	Yes	1	4	1x4	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	14,559	18	S ARCTURAS AVE	2021	6/1/1963
2762	East WRF	292A2105.1	179	Yes	1	4	1x4	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	120,654	15			6/1/1961
2763	East WRF	298A1110.1	277	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	84,421	15	S ARCTURAS AVE	2021	6/1/1963
2764	East WRF	308B5130.1	306	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	87,517	8			6/1/1969
2765	East WRF	310A2015.1	409	Yes	1	4	1x4	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2766	East WRF	300B6005.1	151	Yes	1	4	1x4	Regular Monitoring	Point Repair	PE		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2767	East WRF	310A4010.1	115	Yes	1	4	1x4	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2768	East WRF	300A4100.1	583	Yes	1	4	1x4	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2769	East WRF	310A3065.1	993	Yes	1	4	1x4	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2770	East WRF	309B8050.1	662	Yes	1	4	1x4	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30	HARN BLVD	2019	6/1/1963
2771	East WRF	310A3035.1	388	Yes	1	4	1x4	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2772	East WRF	316B7005.1	635	Yes	1	4	1x4	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	36			6/1/1963
2773	East WRF	301A1025.1	330	Yes	1	4	1x4	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2774	East WRF	291B6090.1	80	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	54,099	15			6/1/1961
2775	East WRF	291B8105.1	205	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	142,976	15			6/1/1961
2776	East WRF	308A3020.1	275	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	189,414	18			6/1/1963
2777	East WRF	291B8115.1	147	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	98,861	15			6/1/1961
2778	East WRF	298A4120.1	177	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	122,311	18			6/1/1963
2779	East WRF	308A3050.1	248	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	170,723	18			6/1/1963
2780	East WRF	306B7185.1	66	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	42,829	12			6/1/1981
2781	East WRF	308A1020.1	172	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	118,352	18			6/1/1967
2782	East WRF	306B8040.1	96	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	62,950	12			6/1/1981
2783	East WRF	291B8100.1	71	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	47,582	15			6/1/1961
2784	East WRF	298A4025.1	34	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	21,493	8			6/1/1962
2785	East WRF	299B6030.1	253	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	197,752	8			
2786	East WRF	298A1100.1	247	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	188,934	8	BROOKSIDE DR	2021	
2787	East WRF	299A1090.1	53	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	33,309	8			6/1/1982
2788	East WRF	299B6035.1	44	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	27,457	8			
2789	East WRF	315B8050.1	31	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	19,280	8			
2790	East WRF	316B7055.1	297	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	225,560	8			6/1/1971
2791	East WRF	283A3120.1	22	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	14,013	8	MADERA AVE	2019	6/1/1968
2792	East WRF	297B7040.1	44	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	37,156	8	FLORIDA AVE	2021	5/25/2007
2793	East WRF	288B6075.1	280	Yes	1	3	1x3	Regular Monitoring	No Action	LIN		[Number of Rehabilitations]{"RehabMethod" = 'LINING' } >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1962
2794	East WRF	291A4105.1	324	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	96,825	15			6/1/1961
2795	East WRF	291B6105.1	237	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	73,745	15			6/1/1961
2796	East WRF	307A1020.1	308	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	92,441	15			6/1/1967
2797	East WRF	291A4095.1	174	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	52,555	12			10/1/1985
2798	East WRF	306B7175.1	159	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	49,055	12			6/1/1981
2799	East WRF	308A1025.1	391	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	120,142	18			6/1/1967
2800	East WRF	291B6100.1	338	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	115,406	15			6/1/1961
2801	East WRF	274A4030.1	247	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	3	116,330	36			6/1/1964
2802	East WRF	291B6095.1	400	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	131,794	15			6/1/1961

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
2803	East WRF	306B7015.1	271	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	82,680	15			6/1/1967
2804	East WRF	307B7070.1	314	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	79,333	8			6/1/1977
2805	East WRF	274B8070.1	202	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	74,905	8	SAN DOMINGO ST	2019	6/1/1972
2806	East WRF	316A4090.1	250	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	70,245	8			
2807	East WRF	297A4120.1	287	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	9	108,307	8			
2808	East WRF	308B7010.1	331	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	82,824	8			6/1/1963
2809	East WRF	297A2125.1	263	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	68,136	8	E LOTUS PATH	2018	
2810	East WRF	297A4005.1	296	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	PVC		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	3	80,385	8	S GLENWOOD AVE	2021	6/1/1983
2811	East WRF	288B6040.1	275	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	7	95,653	8			6/1/1962
2812	East WRF	298A4040.1	273	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	7	95,396	8			6/1/1962
2813	East WRF	299B7045.1	397	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	5	112,318	8			6/1/1969
2814	East WRF	298B6035.1	258	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	4	76,967	8			6/1/1962
2815	East WRF	307B7075.1	93	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	31,078	8			6/1/1977
2816	East WRF	299B7020.1	102	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	33,031	8			6/1/2013
2817	East WRF	309B7110.1	213	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	62,294	8			2/1/2014
2818	East WRF	288B7035.1	361	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	94,374	8			
2819	East WRF	298A1070.1	136	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	40,545	8	S ARCTURAS AVE	2021	6/1/1962
2820	East WRF	283A4025.1	367	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	12	140,786	8			6/1/1978
2821	East WRF	298A4140.1	100	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	32,723	8			
2822	East WRF	300B7090.1	290	Yes	1	3	1x3	Regular Monitoring	Point Repair	PE		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2823	East WRF	300A4075.1	587	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2824	East WRF	301A1075.1	229	Yes	1	3	1x3	Regular Monitoring	Point Repair	PE		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2825	East WRF	317A1005.1	144	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	24	WILLIAMS DR	2019	6/1/1963
2826	East WRF	310A2010.1	721	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2827	East WRF	317A3015.1	211	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	20			6/1/1963
2828	East WRF	300B7085.1	44	Yes	1	3	1x3	Regular Monitoring	Point Repair	PE		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2829	East WRF	300B7075.1	201	Yes	1	3	1x3	Regular Monitoring	Point Repair	PE		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2830	East WRF	300B7060.1	195	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2831	East WRF	301A1060.1	48	Yes	1	3	1x3	Regular Monitoring	Point Repair	PE		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2832	East WRF	310A2005.1	517	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2833	East WRF	300B5085.1	304	Yes	1	3	1x3	Regular Monitoring	Point Repair	PE		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2834	East WRF	300B5105.1	227	Yes	1	3	1x3	Regular Monitoring	Point Repair	PE		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2835	East WRF	300B7080.1	160	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2836	East WRF	300B7065.1	93	Yes	1	3	1x3	Regular Monitoring	Point Repair	PE		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2837	East WRF	317B5005.1	168	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30	FAIRBANKS DR	2019	6/1/1963
2838	East WRF	317B5025.1	317	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	14,899	48	SUMMERLIN DR	2019	6/1/1963
2839	East WRF	300B6025.1	228	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2840	East WRF	317B5020.1	127	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	14,899	48	SUMMERLIN DR	2019	6/1/1963
2841	East WRF	300B5115.1	90	Yes	1	3	1x3	Regular Monitoring	Point Repair	PE		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2842	East WRF	301A1070.1	237	Yes	1	3	1x3	Regular Monitoring	Point Repair	PE		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2843	East WRF	310A4005.1	89	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2844	East WRF	317A3005.1	258	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30	RANCHWOOD DR	2019	6/1/1963
2845	East WRF	317B5015.1	607	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2846	East WRF	309B8005.1	196	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			2/1/2014
2847	East WRF	300B6015.1	212	Yes	1	3	1x3	Regular Monitoring	Point Repair	PE		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2848	East WRF	300B6045.1	202	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2849	East WRF	300B7070.1	114	Yes	1	3	1x3	Regular Monitoring	Point Repair	PE		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2850	East WRF	307A3005.1	86	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12			6/1/1983
2851	East WRF	309A4105.1	260	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	24	WHISPERING PINES DR	2019	6/1/1963
2852	East WRF	317A3010.1	290	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30	RANCHWOOD DR	2019	6/1/1963
2853	East WRF	301A1045.1	706	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2854	East WRF	306B8200.1	30	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15			
2855	East WRF	309B8045.1	309	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2856	East WRF	309B8055.1	321	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2857	East WRF	306B7205.1	287	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1973
2858	East WRF	290B8085.1	370	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/2013
2859	East WRF	315A4135.1	362	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1980
2860	East WRF	297A4050.1	259	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			
2861	East WRF	297A4025.1	17	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	SKYVIEW AVE	2021	6/1/1983
2862	East WRF	297A2025.1	165	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1983
2863	East WRF	297A4010.1	132	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	S GLENWOOD AVE	2021	6/1/1983
2864	East WRF	297B7010.1	142	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			
2865	East WRF	307B8020.1	325	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1994
2866	East WRF	297A4015.1	26	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	SKYVIEW AVE	2021	6/1/1983
2867	East WRF	290B6105.1	291	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1961
2868	East WRF	297A3115.1	355	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2869	East WRF	298A2020.1	205	Yes	1	3	1x3	Regular Monitoring	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	BROOKSIDE DR	2021	6/1/2000
2870	East WRF	308A3075.1	306	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			6/1/1962
2871	East WRF	297A4020.1	196	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	SKYVIEW AVE	2021	6/1/1983
2872	East WRF	307B8005.1	409	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1994
2873	East WRF	290B6095.1	315	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1961
2874	East WRF	308B5070.1	121	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1971
2875	East WRF	298B6015.1	222	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			6/1/1962
2876	East WRF	315B5015.1	285	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
2877	East WRF	297A4045.1	48	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2878	East WRF	298A4005.1	269	Yes	1	3	1x3	Regular Monitoring	Point Repair	RCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8	S ARCTURAS AVE	2021	6/1/1962
2879	East WRF	297B7060.2	42	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
2880	East WRF	315B1005.1	271	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			1/11/2001
2881	East WRF	306B8090.1	302	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	12	243,190	8			
2882	East WRF	306B8005.1	85	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	53,208	8			
2883	East WRF	298A4055.1	255	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	8	193,847	8			6/1/1962
2884	East WRF	306B7025.2	20	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	17,752	8			
2885	East WRF	296B8165.1	23	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	19,359	8			
2886	East WRF	283B7005.1	211	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	161,618	8	SAN JOSE ST	2019	6/1/1965
2887	East WRF	315B6070.1	65	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	45,491	8			
2888	East WRF	299B6020.1	272	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	11	219,555	8			
2889	East WRF	308B5005.1	177	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	135,334	8			6/1/1962
2890	East WRF	298B6095.1	238	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	178,432	8			6/1/1962
2891	East WRF	290A2030.1	11	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	6,610	8			12/1/1984
2892	East WRF	314B6010.1	305	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	10	235,129	8			
2893	East WRF	299A2010.1	70	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	43,953	8			6/1/1970
2894	East WRF	297A2110.1	195	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	151,556	8			
2895	East WRF	298B6135.1	160	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	119,635	8			6/1/1962
2896	East WRF	298A1090.1	211	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	7	161,775	8			6/1/1962
2897	East WRF	289A1010.1	346	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	4	230,648	8			
2898	East WRF	299A4150.1	72	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	45,140	8			
2899	East WRF	297B6040.1	49	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	30,447	8			6/1/1966
2900	East WRF	297B6050.1	183	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	139,334	8			6/1/1966
2901	East WRF	307A1210.1	124	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	5	97,477	8			
2902	East WRF	307A1125.1	41	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	25,895	8			
2903	East WRF	307A2035.1	71	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	44,543	8			6/1/1962
2904	East WRF	288B8050.1	337	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			
2905	East WRF	288B6025.1	189	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1962
2906	East WRF	283A3105.1	282	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	SAN MATEO ST	2019	6/1/1965
2907	East WRF	314B7045.1	249	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	66,882	10			6/1/1981
2908	East WRF	306B8150.1	249	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	66,974	10			6/1/1981
2909	East WRF	307A1025.1	319	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	95,311	15			6/1/1967

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
2910	East WRF	290A2005.1	208	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	4	66,220	8			12/1/1984
2911	East WRF	297A2095.1	285	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	5	87,976	8	E MAGNOLIA ST	2018	
2912	East WRF	299B5015.1	402	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	4	108,372	8			6/1/1961
2913	East WRF	317A1050.1	235	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	62,055	8			6/1/1968
2914	East WRF	289B6025.1	230	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	65,985	8			
2915	East WRF	309B7050.1	301	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	8	106,457	8			6/1/1980
2916	East WRF	297A2045.1	229	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	80,718	8	JASMINE CT	2018	
2917	East WRF	298B6065.1	258	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	86,996	8			6/1/1962
2918	East WRF	306B8020.1	336	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	10	123,992	8			
2919	East WRF	299B5030.1	344	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	10	125,788	8			
2920	East WRF	297B6060.1	305	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	82,275	8			6/7/2008
2921	East WRF	297A2120.1	283	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	8	102,378	8			
2922	East WRF	314B5035.1	168	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	47,521	8			
2923	East WRF	297B6030.1	90	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	30,410	8			6/7/2008
2924	East WRF	309A4010.1	280	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	71,914	8	FLUSHING AVE	2019	7/1/1995
2925	East WRF	289B6045.1	272	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	7	95,097	8			
2926	East WRF	308B5010.1	278	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	7	96,300	8			6/1/1962
2927	East WRF	298B5120.1	120	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	37,027	8			6/1/1966
2928	East WRF	298B6060.1	310	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	108,368	8			6/1/1962
2929	East WRF	298B6045.1	251	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	7	90,610	8			6/1/1962
2930	East WRF	288B6015.1	324	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	86,404	8			6/1/1962
2931	East WRF	298B6090.1	265	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	5	83,544	8			6/1/1962
2932	East WRF	298A1095.1	214	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	77,449	8			6/1/1962
2933	East WRF	297A4130.1	211	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	5	71,717	8			6/1/1981
2934	East WRF	297B7115.1	282	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	87,242	8			
2935	East WRF	314B5030.1	165	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	4	56,906	8			
2936	East WRF	297B6095.1	185	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	51,129	8			6/7/2008
2937	East WRF	288B7065.1	323	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	4	91,216	8			
2938	East WRF	298B6040.1	209	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	76,454	8			6/1/1962
2939	East WRF	298A4100.1	282	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	92,286	8			6/1/1962
2940	East WRF	309A4065.1	383	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	10	134,189	8	WHISPERING PINES DR	2019	6/1/1965
2941	East WRF	299A2015.1	318	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	100,155	8			6/1/1970
2942	East WRF	299B7040.1	186	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	56,386	8			6/1/1969
2943	East WRF	309B5085.1	243	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	4	73,878	8			6/1/1980
2944	East WRF	296B8025.1	98	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	32,248	8	S HILLCREST AVE	2018	6/1/1967
2945	East WRF	297A2100.1	101	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	32,889	8	E MAGNOLIA ST	2018	
2946	East WRF	274B8115.1	284	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	9	107,809	8	SAN CARLOS ST	2019	6/1/1972
2947	East WRF	298B6100.1	338	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	9	119,406	8			6/1/1962
2948	East WRF	297B6090.1	262	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	5	82,925	8			6/7/2008
2949	East WRF	315A2045.1	158	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	45,295	8			6/1/1980
2950	East WRF	298A2005.1	294	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	94,833	8	PARKLAND AVE	2021	6/1/1962
2951	East WRF	289B6050.1	269	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	74,472	8			
2952	East WRF	289A2020.1	441	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	9	141,767	8			
2953	East WRF	297A4115.1	234	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	81,870	8			
2954	East WRF	298A4110.1	327	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	8	112,085	8			6/1/1962
2955	East WRF	298A2040.1	227	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	80,229	8			6/1/1962
2956	East WRF	298A4105.1	291	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	94,163	8			6/1/1962
2957	East WRF	298A4070.1	243	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	5	78,767	8			6/1/1962
2958	East WRF	298B6075.1	235	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	7	87,118	8			6/1/1962
2959	East WRF	298B6020.1	358	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	9	123,867	8			6/1/1962
2960	East WRF	309B5020.1	388	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	115,309	8			6/1/1980
2961	East WRF	288B8055.1	328	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	8	112,330	8			
2962	East WRF	309B7105.1	93	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	31,108	8			2/1/2014
2963	East WRF	315A3010.1	234	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	5	76,837	8			
2964	East WRF	314B7155.1	317	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	79,821	8			
2965	East WRF	297B6080.1	273	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	7	95,230	8			6/1/1966
2966	East WRF	315B6005.1	321	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	10	120,708	8			6/1/1969
2967	East WRF	297A2040.1	194	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	4	63,180	8			
2968	East WRF	297B8025.1	255	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	5	81,337	8	FLORIDA AVE	2021	
2969	East WRF	298B6115.1	329	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	8	112,444	8			6/1/1962
2970	East WRF	309A4040.1	278	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	4	81,399	8	WILLIAMS DR	2019	6/1/1963
2971	East WRF	298B6080.1	259	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	77,293	8			6/1/1962
2972	East WRF	289A2110.1	266	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	68,860	8			
2973	East WRF	289A2100.1	369	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	96,296	8			
2974	East WRF	289B5020.1	148	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	4	53,019	8			
2975	East WRF	289A3025.1	381	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	7	135,643	8			
2976	East WRF	289A1040.1	376	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	112,740	8			
2977	East WRF	297B8045.1	172	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	5	63,275	8			
2978	East WRF	299A4155.1	153	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	49,297	8	GLENMOOR RD N	2019	
2979	East WRF	297A2085.1	317	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	5	94,824	8			
2980	East WRF	297B6065.1	154	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	44,477	8			6/1/1966
2981	East WRF	307A3040.1	90	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	30,493	8			
2982	East WRF	306B7135.1	134	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	45,000	8			
2983	East WRF	306B8105.1	333	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	2	83,419	8			
2984	East WRF	283A4020.1	416	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	12	151,339	8			6/1/1978
2985	East WRF	307A1035.1	23	Yes	1	2	1x2	Regular Monitoring	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	15			6/1/1967
2986	East WRF	307A1010.1	26	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	12			6/1/1967
2987	East WRF	307A1015.1	274	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	12			6/1/1983
2988	East WRF	301A1065.1	319	Yes	1	2	1x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2989	East WRF	300B7055.1	216	Yes	1	2	1x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	16,139	30			6/1/1963
2990	East WRF	300B5120.1	20	Yes	1	2	1x2	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	43,762	24			6/1/1986
2991	East WRF	280A2075.1	331	Yes	1	2	1x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			
2992	East WRF	315A4130.1	146	Yes	1	2	1x2	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1980
2993	East WRF	309B5040.1	397	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1980
2994	East WRF	317A3040.1	228	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	0	-	8	WILLIAMS CT	2019	6/1/1967
2995	East WRF	317B5060.1	256	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	SUMMERLIN DR	2019	6/1/1968
2996	East WRF	297A2010.1	344	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1983
2997	East WRF	288B5050.1	296	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1962
2998	East WRF	288B6090.1	331	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1962
2999	East WRF	298B6025.1	347	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1962
3000	East WRF	307B8030.1	404	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1994
3001	East WRF	314B7180.1	250	Yes	1	2	1x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
3002	East WRF	308B6075.1	328	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1966
3003	East WRF	289B6020.1	230	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
3004	East WRF	309B5015.1	86	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		{Count of Defects}{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			6/1/1980
3005	East WRF	315A2020.1	123	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1961
3006	East WRF	314B5040.1	108	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		{Count of Defects}{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			
3007	East WRF	307A3085.1	285	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
3008	East WRF	297B6110.1	196	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		{Count of Defects}{"Def_Code" LIKE 'RT%'} >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			6/1/1966
3009	East WRF	297A2060.1	174	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]{"RehabMethod" = 'CLEANING' } >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
3010	East WRF	314B5070.1	349	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
3011	East WRF	298B6120.1	256	Yes	1	2	1x2	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1962
3012	East WRF	314B7070.1	189	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1963
3013	East WRF	290B6040.1	388	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1964
3014	East WRF	315B6060.1	334	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
3015	East WRF	297A4035.1	326	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	S CREST AVE	2021	
3016	East WRF	298A4115.2	179	Yes	1	2	1x2	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1962
3017	East WRF	299A2050.1	385	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1970
3018	East WRF	297A2015.1	319	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1983
3019	East WRF	298A1120.1	199	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1962
3020	East WRF	288B6010.1	335	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1962
3021	East WRF	314B7195.1	83	Yes	1	2	1x2	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
3022	East WRF	297B7070.1	240	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	TURNER ST	2021	9/2/2008
3023	East WRF	289B6040.1	204	Yes	1	2	1x2	Regular Monitoring	Point Repair	XXX		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			
3024	East WRF	289B5015.1	222	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
3025	East WRF	289A4025.1	286	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
3026	East WRF	298A1055.1	313	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8			6/1/1962
3027	East WRF	298B8015.1	135	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
3028	East WRF	314B7060.1	255	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1988
3029	East WRF	315A2035.1	147	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1980
3030	East WRF	297A2165.1	165	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
3031	East WRF	297B7120.1	285	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1962
3032	East WRF	297A2055.1	348	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
3033	East WRF	297B5010.1	180	Yes	1	2	1x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	YELVINGTON AVE	2021	
3034	East WRF	307A3060.1	142	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
3035	East WRF	292A1005.1	285	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1973
3036	East WRF	292A3130.1	136	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1986
3037	East WRF	297B5045.1	60	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	TURNER ST	2021	
3038	East WRF	292A3145.1	355	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1986
3039	East WRF	292A1060.1	106	Yes	1	2	1x2	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
3040	East WRF	288B7055.1	319	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
3041	East WRF	315B1000.1	183	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			1/11/2001
3042	East WRF	307A1305.1	232	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			3/22/1985
3043	East WRF	299A2040.1	317	Yes	1	1	1x1	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	7	104,860	8			6/1/1970
3044	East WRF	309A3115.2	258	Yes	1	1	1x1	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	82,034	8	FLUSHING AVE	2019	7/1/1995
3045	East WRF	299A2090.1	136	Yes	1	1	1x1	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	45,613	8			6/1/1970
3046	East WRF	297B6045.1	209	Yes	1	1	1x1	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	61,340	8			6/7/2008
3047	East WRF	298B8055.1	333	Yes	1	1	1x1	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	113,317	8			
3048	East WRF	283A3030.1	296	Yes	1	1	1x1	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'RT%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	8	SAN PEDRO ST	2019	6/1/1965
3049	East WRF	314B8125.1	374	Yes	1	1	1x1	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
3050	Northeast WRF	280B5020.1	345	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	1	217,890	10			6/1/1973
3051	Northeast WRF	264A2045.1	390	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	1	255,122	12			6/1/1967
3052	Northeast WRF	211A4105.1	218	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	150,476	18			6/1/1977
3053	Northeast WRF	271B6010.1	337	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	247,447	15			6/1/1973
3054	Northeast WRF	273A2025.1	332	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	209,556	10			6/1/1973
3055	Northeast WRF	271B6060.1	272	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	171,779	10			6/1/1973
3056	Northeast WRF	280B5110.1	320	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	201,891	10			6/1/1973
3057	Northeast WRF	233A1080.1	204	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	127,550	8			11/1/1983
3058	Northeast WRF	233A2005.1	226	Yes	2	3	2x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	141,268	8			11/1/1983
3059	Northeast WRF	264A3160.1	317	Yes	2	3	2x3	Regular Monitoring	Lining	CAS		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	84,090	14	N TERRACE DR	2022	6/1/1984
3060	Northeast WRF	264A4055.1	374	Yes	2	3	2x3	Regular Monitoring	Lining	CAS		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	99,002	14	EVANS DR	2022	6/1/1984
3061	Northeast WRF	255A4020.1	269	Yes	2	3	2x3	Regular Monitoring	Lining	CAS		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	71,264	14			6/1/1984
3062	Northeast WRF	273A3015.1	244	Yes	2	3	2x3	Regular Monitoring	Lining	CAS		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	64,519	14			6/1/1984
3063	Northeast WRF	273A3020.1	383	Yes	2	3	2x3	Regular Monitoring	Lining	CAS		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	101,460	14			6/1/1984
3064	Northeast WRF	255A4040.1	54	Yes	2	3	2x3	Regular Monitoring	Lining	CAS		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	14,402	14			6/1/1984
3065	Northeast WRF	264A2085.1	91	Yes	2	3	2x3	Regular Monitoring	Lining	CAS		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	21,754	12			6/1/1967
3066	Northeast WRF	273A4020.1	300	Yes	2	3	2x3	Regular Monitoring	Lining	CAS		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	79,501	14			6/1/1984
3067	Northeast WRF	273A3065.1	307	Yes	2	3	2x3	Regular Monitoring	Lining	CAS		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	81,386	14			6/1/1984
3068	Northeast WRF	255A4035.1	79	Yes	2	3	2x3	Regular Monitoring	Lining	CAS		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	20,907	14			6/1/1984
3069	Northeast WRF	255A4015.1	94	Yes	2	3	2x3	Regular Monitoring	Lining	CAS		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	24,897	14			6/1/1984
3070	Northeast WRF	222A3055.1	301	Yes	2	3	2x3	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	65,396	8	WINDING WOOD DR	2022	6/1/1977
3071	Northeast WRF	232A3005.1	122	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	38,336	10			6/1/1973
3072	Northeast WRF	271B7095.1	359	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	105,880	15			6/1/1973
3073	Northeast WRF	234A2070.1	159	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	55,556	8			6/1/1980
3074	Northeast WRF	264B8015.1	402	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	145,183	8	LAWRENCE DR	2022	6/1/1974
3075	Northeast WRF	279B8105.1	301	Yes	2	3	2x3	Regular Monitoring	Point Repair and Lining	XXX		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	12	126,437	8			
3076	Northeast WRF	211B8120.1	374	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	18			6/1/1977
3077	Northeast WRF	244A1050.1	138	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	32,775	12			6/1/1984
3078	Northeast WRF	244A2025.1	259	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	43,700	12			6/1/1984
3079	Northeast WRF	271A3010.1	145	Yes	2	3	2x3	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	28,842	12			6/1/1977
3080	Northeast WRF	271A4005.1	362	Yes	2	3	2x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	34,960	12			6/1/1973
3081	Northeast WRF	264A3120.1	360	Yes	2	3	2x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	64,239	15			6/1/1984
3082	Northeast WRF	244A2035.1	337	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	76,475	12			6/1/1984

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
3083	Northeast WRF	264A3165.1	267	Yes	2	3	2x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	55,280	15			6/1/1984
3084	Northeast WRF	233A1205.1	210	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	4	105,754	10			6/1/1984
3085	Northeast WRF	264B6035.1	296	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	3	54,625	10	EL TRINDAD DR E	2022	6/1/1984
3086	Northeast WRF	271A3005.1	270	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	2	32,775	12			6/1/1977
3087	Northeast WRF	244A1035.1	77	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	15,295	12			6/1/1984
3088	Northeast WRF	244A2030.1	389	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	2	32,775	12			6/1/1984
3089	Northeast WRF	271B6065.1	281	Yes	2	3	2x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	2	32,775	10			6/1/1973
3090	Northeast WRF	244A1065.1	348	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	2	32,775	12			6/1/1984
3091	Northeast WRF	244A2005.1	140	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	2	32,775	12			6/1/1984
3092	Northeast WRF	244A2010.1	185	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	21,850	12			6/1/1984
3093	Northeast WRF	255A4045.1	225	Yes	2	3	2x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	2	32,775	15			6/1/1984
3094	Northeast WRF	264A4015.1	306	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	3	54,625	10	N TERRACE DR	2022	6/1/1984
3095	Northeast WRF	264A4020.1	307	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	7	188,565	10	N TERRACE DR	2022	6/1/1984
3096	Northeast WRF	280B5005.1	323	Yes	2	3	2x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]("Def_Code" LIKE 'R1%') >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N	1	59,650	10			6/1/1973
3097	Northeast WRF	244A2015.1	166	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	2	32,266	12			6/1/1984
3098	Northeast WRF	255A3005.1	177	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	2	45,667	8			6/1/1988
3099	Northeast WRF	291A1010.1	362	Yes	2	3	2x3	Regular Monitoring	Point Repair	CAS		[Number of Rehabilitations]("RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	5	98,325	8			2/3/2008
3100	Northeast WRF	255A3015.1	275	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	43,700	8			6/1/1988
3101	Northeast WRF	255A3025.1	360	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	8	188,566	8			6/1/1988
3102	Northeast WRF	233A1070.1	153	Yes	2	3	2x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	62,710	8			11/1/1983
3103	Northeast WRF	264A1010.1	227	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	1	148,295	12			6/1/1967
3104	Northeast WRF	222A3050.1	21	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	13,283	8	WINDING WOOD DR	2022	6/1/1977
3105	Northeast WRF	211B6055.1	183	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	5	133,954	8	LONG VIEW DR	2022	6/1/1973
3106	Northeast WRF	272B5025.1	197	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	148,044	8	RIDGE TOP WAY	2023	4/1/1981
3107	Northeast WRF	273A3055.1	293	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	212,795	8			
3108	Northeast WRF	232A3130.1	236	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	157,455	8			6/1/1973
3109	Northeast WRF	273A4035.1	89	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	2	60,556	8	BEACHWOOD AVE	2020	6/1/1972
3110	Northeast WRF	273A3045.1	62	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	1	38,809	8			
3111	Northeast WRF	273B6095.1	308	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-N-N-Y-Y-N	11	242,237	8	JADEWOOD AVE	2020	6/1/1972
3112	Northeast WRF	222B7010.1	326	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	233,679	8			6/1/1976
3113	Northeast WRF	281A1060.1	307	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	11	241,777	8			
3114	Northeast WRF	271B6040.1	211	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	131,700	8			6/1/1973
3115	Northeast WRF	178A4095.1	260	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	6	187,121	8			6/1/1979
3116	Northeast WRF	264A4080.1	349	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	11	268,064	8	THOMAS DR	2022	6/1/1984
3117	Northeast WRF	189B7015.1	138	Yes	2	2	2x2	Regular Monitoring	Replace	PVC	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	1	86,132	8			6/1/1980
3118	Northeast WRF	261B7075.1	311	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	7	224,015	8			6/1/1961
3119	Northeast WRF	261B7080.1	369	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-Y-Y-N	12	285,106	8			6/1/1961
3120	Northeast WRF	264B6180.1	298	Yes	2	2	2x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	9	225,979	8	LORI DR	2022	6/1/1969
3121	Northeast WRF	255A3055.1	296	Yes	2	2	2x2	Regular Monitoring	Lining	CAS		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	71,022	12			6/1/1984
3122	Northeast WRF	211A3045.1	232	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	4	67,145	10	WEATHERSFIELD CT	2022	6/1/1973
3123	Northeast WRF	200A4010.1	385	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	5	103,679	8			6/1/1978
3124	Northeast WRF	253A4065.1	248	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	6	79,005	8			6/1/1974
3125	Northeast WRF	271B6035.1	248	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	53,945	8			6/1/1973
3126	Northeast WRF	291A1025.1	42	Yes	2	2	2x2	Regular Monitoring	Lining	VCP		[Count of Defects]("Def_Code" LIKE 'DA%' OR "Def_Code" LIKE 'DS%' OR "Def_Code" LIKE 'DN%' AND "Def_Type" = 'SERVICE') >= (1) is Yes	Y-Y-N-N-N-N-Y-N-Y	1	9,039	8			2/3/2008
3127	Northeast WRF	272B5035.1	232	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	6	83,042	10	EL TAIR TRL	2023	4/1/1981
3128	Northeast WRF	272B5090.1	307	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	5	92,806	8	RIDGE TOP WAY	2023	4/1/1981
3129	Northeast WRF	281A3075.1	379	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	9	128,387	8			6/1/1968
3130	Northeast WRF	252B8030.1	183	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	4	60,731	8			6/1/1970
3131	Northeast WRF	281A1010.1	302	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	96,637	8			6/1/1973
3132	Northeast WRF	234A2030.1	263	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	6	88,084	8			6/1/1980
3133	Northeast WRF	261B7060.1	360	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	129,170	8			6/1/1961
3134	Northeast WRF	261B7040.1	360	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	10	129,317	8			6/1/1961
3135	Northeast WRF	200A4055.1	161	Yes	2	2	2x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	45,913	8	BURNING TREE LN	2022	6/1/1973
3136	Northeast WRF	255A3080.1	374	Yes	2	2	2x2	Regular Monitoring	Point Repair	DIP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	13,110	12			6/1/1984
3137	Northeast WRF	264A3090.1	164	Yes	2	2	2x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	15			6/1/1984
3138	Northeast WRF	233A2050.1	397	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	10			6/1/1984
3139	Northeast WRF	233A2040.1	90	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	20,321	10			6/1/1984
3140	Northeast WRF	244A1020.1	102	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	43,700	10			6/1/1984
3141	Northeast WRF	244A4025.1	339	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	19,665	8			
3142	Northeast WRF	264A4040.1	350	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	74,288	8	N TERRACE DR	2022	6/1/1984
3143	Northeast WRF	271B6050.1	176	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	45,666	8			6/1/1990
3144	Northeast WRF	189A4010.1	220	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	11,362	8	SUN GLOW WAY	2022	6/1/1980
3145	Northeast WRF	264A4075.1	351	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	5	91,405	8	LUCAS DR	2022	6/1/1984
3146	Northeast WRF	264B6190.1	333	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	5	98,325	8	EL TRINDAD DR E	2022	6/1/1984
3147	Northeast WRF	264A3015.1	259	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	38,238	8			6/1/1986
3148	Northeast WRF	244A4065.1	28	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	14,640	8			6/1/1988
3149	Northeast WRF	244B6025.1	393	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			4/1/1986
3150	Northeast WRF	233A2045.1	360	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	62,710	8			11/1/1983
3151	Northeast WRF	189A4035.1	268	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	18,135	8	HYDE PARK DR	2022	6/1/1980
3152	Northeast WRF	244A4070.1	83	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	84,123	8			
3153	Northeast WRF	264A3105.1	390	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	76,475	8			6/1/1984
3154	Northeast WRF	244A4035.1	99	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
3155	Northeast WRF	189B7085.1	328	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	41,952	8			6/1/1980
3156	Northeast WRF	264A4115.1	327	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8	LUCAS DR	2022	6/1/1984
3157	Northeast WRF	289B8070.1	232	Yes	2	2	2x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	37,145	8	RAINBOW DR	2018	6/1/1968
3158	Northeast WRF	264A4125.1	328	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	117,335	8	GROVE DR	2022	6/1/1984
3159	Northeast WRF	244A1025.1	207	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	5	98,325	8			6/1/1984
3160	Northeast WRF	264A4035.1	350	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	87,619	8	N TERRACE DR	2022	6/1/1984
3161	Northeast WRF	264A4085.1	351	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8	GROVE DR	2022	6/1/1984
3162	Northeast WRF	233A2025.1	207	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1986
3163	Northeast WRF	264A3065.1	334	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			6/1/1984
3164	Northeast WRF	244A4050.1	253	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	15,295	8			6/1/1984
3165	Northeast WRF	264A3045.1	377	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	76,475	8			6/1/1984
3166	Northeast WRF	244A4010.1	270	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	99,418	8			
3167	Northeast WRF	244A4055.1	262	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
3168	Northeast WRF	244A4060.1	243	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			
3169	Northeast WRF	264A3100.1	225	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1985
3170	Northeast WRF	264A3095.1	211	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			6/1/1985
3171	Northeast WRF	233A1220.1	168	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			2/3/2005
3172	Northeast WRF	233A1235.1	391	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	43,700	8			2/3/2005
3173	Northeast WRF	244A1100.0	256	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	54,625	8			2/3/2005
3174	Northeast WRF	244A1105.1	338	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	7	168,464	8			2/3/2005
3175	Northeast WRF	244A4501.1	263	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	32,775	8			10/22/2007
3176	Northeast WRF	244A4503.1	324	Yes	2	2	2x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	4	76,475	8			10/22/2007
3177	Northeast WRF	244A2060.1	254	Yes	2	1	2x1	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	1	165,964	12			6/1/1984

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
3178	Northeast WRF	222A3020.1	68	Yes	2	1	2x1	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING'] >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	2	32,775	8			
3179	Northeast WRF	244A1110.1	84	Yes	2	1	2x1	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	40,204	8			2/3/2005
3180	Northeast WRF	271B7105.1	42	Yes	1	4	1x4	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	28,618	15			6/1/1973
3181	Northeast WRF	211B8116.1	188	Yes	1	4	1x4	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	129,406	18			6/1/1977
3182	Northeast WRF	212A2055.1	75	Yes	1	4	1x4	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	51,618	18			6/1/1977
3183	Northeast WRF	211B8115.1	16	Yes	1	4	1x4	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	11,123	18			6/1/1977
3184	Northeast WRF	290B7030.1	29	Yes	1	4	1x4	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	18,100	10			6/1/1967
3185	Northeast WRF	272A1030.1	151	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	74,109	30			6/1/1969
3186	Northeast WRF	272A4075.1	285	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	125,621	30			6/1/1969
3187	Northeast WRF	272B6110.1	284	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	125,451	30			6/1/1969
3188	Northeast WRF	272B6100.1	273	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	121,180	30			6/1/1969
3189	Northeast WRF	272A1035.1	261	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	116,584	30			6/1/1969
3190	Northeast WRF	272B6115.1	162	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	78,509	30			6/1/1969
3191	Northeast WRF	272A4050.1	78	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	46,238	30			6/1/1969
3192	Northeast WRF	272A1040.1	215	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	98,939	30			6/1/1969
3193	Northeast WRF	273A2070.1	361	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	155,003	30			6/1/1967
3194	Northeast WRF	272A4040.1	261	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	116,418	30			6/1/1969
3195	Northeast WRF	272A4070.1	149	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	73,316	30			6/1/1969
3196	Northeast WRF	272A4055.1	357	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	153,597	30			6/1/1969
3197	Northeast WRF	272A1060.1	160	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	77,687	30			6/1/1969
3198	Northeast WRF	272A1045.1	239	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	107,979	30			6/1/1969
3199	Northeast WRF	273A2075.1	339	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	146,602	30			6/1/1967
3200	Northeast WRF	272A1010.1	277	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	122,592	30			6/1/1969
3201	Northeast WRF	282A4080.1	260	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	69,405	10			6/1/1970
3202	Northeast WRF	272A4065.1	172	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	82,462	30			6/1/1969
3203	Northeast WRF	272A1020.1	319	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	138,770	30			6/1/1969
3204	Northeast WRF	272A4060.1	70	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	43,018	30			6/1/1969
3205	Northeast WRF	272B6105.1	348	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	150,027	30			6/1/1969
3206	Northeast WRF	272A4025.1	331	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	143,602	30			6/1/1969
3207	Northeast WRF	272B8010.1	255	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	114,346	30			6/1/1969
3208	Northeast WRF	272B8015.1	375	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	160,240	30			6/1/1969
3209	Northeast WRF	272B8025.1	346	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	149,046	30			6/1/1969
3210	Northeast WRF	232B5050.1	300	Yes	1	4	1x4	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	76,282	8			6/1/1979
3211	Northeast WRF	273A2055.1	36	Yes	1	4	1x4	Regular Monitoring	Point Repair	XXX		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	16			
3212	Northeast WRF	290B7025.1	200	Yes	1	4	1x4	Regular Monitoring	Point Repair	CAS		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	10			2/3/2008
3213	Northeast WRF	281B8095.1	303	Yes	1	4	1x4	Regular Monitoring	Point Repair	DIP		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12			6/1/1967
3214	Northeast WRF	290B7020.1	205	Yes	1	4	1x4	Regular Monitoring	Point Repair	CAS		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	10			2/3/2008
3215	Northeast WRF	233A3045.1	173	Yes	1	4	1x4	Regular Monitoring	Point Repair	FRP		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1979
3216	Northeast WRF	255A3010.1	120	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	83,447	12			6/1/1984
3217	Northeast WRF	211A4110.1	225	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	155,016	18			6/1/1977
3218	Northeast WRF	222A3010.1	129	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	89,000	18			6/1/1977
3219	Northeast WRF	273A1005.1	67	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	43,916	12			6/1/1967
3220	Northeast WRF	222A1025.1	285	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	196,694	18	WINDING WOOD DR	2022	6/1/1977
3221	Northeast WRF	211A4120.1	57	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	39,155	18			6/1/1977
3222	Northeast WRF	211A4100.1	70	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	47,913	18			6/1/1977
3223	Northeast WRF	264A1040.1	94	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	61,705	12			6/1/1967
3224	Northeast WRF	265A2010.1	405	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	14	318,006	8	ST. CROIX DR	2022	6/1/1974
3225	Northeast WRF	273A3115.1	29	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	1	17,962	8			6/7/2008
3226	Northeast WRF	273A3120.1	107	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	2	71,686	8			6/7/2008
3227	Northeast WRF	253B8090.1	137	Yes	1	3	1x3	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-N-Y-Y-N	3	95,641	8			6/1/1979
3228	Northeast WRF	273B6125.1	362	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	PARK TRAIL LN	2020	6/1/1972
3229	Northeast WRF	282B5010.1	265	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	PARK TRAIL LN	2020	6/1/1972
3230	Northeast WRF	211B7050.1	327	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1976
3231	Northeast WRF	273B5005.1	111	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1974
3232	Northeast WRF	254A4030.1	243	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1986
3233	Northeast WRF	273B6135.1	209	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	PARK TRAIL LN	2020	6/1/1972
3234	Northeast WRF	273A4080.1	122	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	APPLEWOOD DR	2020	6/1/1972
3235	Northeast WRF	273A4065.1	194	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	APPLEWOOD DR	2020	6/1/1972
3236	Northeast WRF	273A4085.1	249	Yes	1	3	1x3	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING'] >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	PARK TRAIL LN	2020	6/1/1972
3237	Northeast WRF	272A4030.1	294	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	129,303	30			6/1/1969
3238	Northeast WRF	272A4020.1	108	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	57,739	30			6/1/1969
3239	Northeast WRF	281A2035.1	313	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	93,928	15			8/25/2010
3240	Northeast WRF	272A4005.1	186	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	87,671	30			6/1/1969
3241	Northeast WRF	273A1010.1	415	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	110,324	12			6/1/1967
3242	Northeast WRF	273A1030.1	313	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	93,928	15			6/1/1967
3243	Northeast WRF	273A1080.1	226	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	70,705	15			6/1/1967
3244	Northeast WRF	271B8005.1	350	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	108,673	15			6/1/1973
3245	Northeast WRF	221A3020.1	256	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	78,406	10			2/1/1999
3246	Northeast WRF	272B8040.1	279	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	123,288	30			6/1/1969
3247	Northeast WRF	272B8020.1	46	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	RCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-N-Y-Y	2	33,971	30			6/1/1969
3248	Northeast WRF	188B5065.1	372	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	91,880	8			6/1/1978
3249	Northeast WRF	273A4055.1	315	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	10	119,400	8	BEACHWOOD AVE	2020	6/1/1972
3250	Northeast WRF	281A3015.1	246	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	79,502	8			6/1/1968
3251	Northeast WRF	280B7005.1	194	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	53,146	8			6/1/1970
3252	Northeast WRF	281A3020.1	237	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	72,451	8			6/1/1978
3253	Northeast WRF	232B5080.1	343	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	85,593	8			6/1/1979
3254	Northeast WRF	232B5015.1	324	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	81,440	8			6/1/1979
3255	Northeast WRF	232B7085.1	241	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	63,316	8			6/1/1979
3256	Northeast WRF	211B8065.1	344	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	10	125,647	8			6/1/1976
3257	Northeast WRF	232B7015.1	192	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	2	52,725	8			6/1/1979
3258	Northeast WRF	222B7045.1	245	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	74,222	8			6/1/1976
3259	Northeast WRF	221B8055.1	339	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	84,683	8			6/1/1979
3260	Northeast WRF	188B7080.1	379	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	93,370	8			6/1/1978
3261	Northeast WRF	281A1070.1	308	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	102,817	8			
3262	Northeast WRF	211B7010.1	293	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	94,716	8			6/1/1976
3263	Northeast WRF	211B7015.1	171	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	48,091	8			6/1/1976
3264	Northeast WRF	232B5005.1	405	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	109,003	8			6/1/1979
3265	Northeast WRF	281A4020.1	258	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	86,990	8			6/1/1974
3266	Northeast WRF	232B7090.1	430	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	104,463	8			6/1/1979
3267	Northeast WRF	221A3015.1	250	Yes	1	3	1x3	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	70,368	8			6/1/1976
3268	Northeast WRF	255A2075.1	265	Yes	1	3	1x3	Regular Monitoring	Point Repair	VCP		[Count of Defects]["Def_Code" LIKE 'RT%'] >= (1) is No	Y-Y-N-N-N-N-N-Y-N-N-N	1	10,925	12			6/1/1967
3269	Northeast WRF	264A4090.1	359	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	14	EVANS DR	2022	6/1/1984
3270	Northeast WRF	211B6180.1	264	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18			6/1/1977
3271	Northeast WRF	211B6170.1	81	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18			6/1/1977
3272	Northeast WRF	290B7015.1	193	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	10			2/3/2008
3273	Northeast WRF	211B6155.1	163	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18			6/1/1977
3274	Northeast WRF	233A2020.1	312	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	10			11/1/1983
3275	Northeast WRF	211B8125.1	400	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	18			6/1/1977
3276	Northeast WRF	244A2020.1	100	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	12			6/1/1984
3277	Northeast WRF	264A3155.1	75	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	15			6/1/1984
3278	Northeast WRF	273A4015.1	68	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	14			6/1/1984
3279	Northeast WRF	255A4060.1	239	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		(GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
3286	Northeast WRF	264A4005.1	375	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	14	EVANS DR	2022	6/1/1984
3287	Northeast WRF	264A2080.1	41	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	12			6/1/1967
3288	Northeast WRF	264A3005.1	274	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	15			6/1/1984
3289	Northeast WRF	281A2020.1	223	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	12			
3290	Northeast WRF	273A3005.1	243	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	14			6/1/1984
3291	Northeast WRF	264A3025.1	173	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	15			6/1/1984
3292	Northeast WRF	264A3060.1	185	Yes	1	3	1x3	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	15			6/1/1984
3293	Northeast WRF	289B7075.1	366	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	10			5/1/1983
3294	Northeast WRF	211B6175.1	316	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	18			6/1/1977
3295	Northeast WRF	289B7065.1	350	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	10	S STARCREST DR	2018	5/1/1983
3296	Northeast WRF	211B8110.1	41	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1974
3297	Northeast WRF	264A2070.1	76	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1983
3298	Northeast WRF	255A4013.1	203	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/2000
3299	Northeast WRF	255A4014.1	14	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1984
3300	Northeast WRF	200A1040.1	330	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8	PEBBLE BEACH DR	2022	6/1/1977
3301	Northeast WRF	281A1106.1	157	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			
3302	Northeast WRF	280A2065.1	379	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			
3303	Northeast WRF	291A3025.1	301	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			
3304	Northeast WRF	234A1045.1	261	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1977
3305	Northeast WRF	291A3005.1	46	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			
3306	Northeast WRF	253A4100.1	220	Yes	1	3	1x3	Regular Monitoring	Point Repair	LIN		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1974
3307	Northeast WRF	280B8010.1	296	Yes	1	3	1x3	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			
3308	Northeast WRF	280B8100.1	305	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1982
3309	Northeast WRF	283A1015.1	202	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			7/6/2006
3310	Northeast WRF	283A1016.1	243	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			7/6/2006
3311	Northeast WRF	283A1017.1	226	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			7/6/2006
3312	Northeast WRF	283A1018.1	223	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			7/6/2006
3313	Northeast WRF	283A1100.1	302	Yes	1	3	1x3	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			10/1/2009
3314	Northeast WRF	280B6085.1	55	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	1	34,328	8			
3315	Northeast WRF	280B6085.1	330	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-Y-Y-Y	3	84,860	8			
3316	Northeast WRF	233A1215.1	391	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8			2/3/2005
3317	Northeast WRF	233A2035.1	69	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	1	43,422	10			11/1/1983
3318	Northeast WRF	252B8060.1	159	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	4	114,110	8			6/1/1970
3319	Northeast WRF	222B7090.1	159	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	5	119,476	8			6/1/1976
3320	Northeast WRF	234A2080.1	124	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	3	87,639	8			6/1/1980
3321	Northeast WRF	252B8065.1	220	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	6	162,398	8			6/1/1970
3322	Northeast WRF	232A4110.1	290	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	9	221,001	8			6/1/1974
3323	Northeast WRF	222B7075.1	154	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	4	110,832	8			6/1/1976
3324	Northeast WRF	222B7105.1	199	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	6	149,416	8			6/1/1976
3325	Northeast WRF	279B8085.1	305	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	4	205,451	8			
3326	Northeast WRF	281A1025.1	39	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	1	24,315	8			6/1/1973
3327	Northeast WRF	211A3105.1	197	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	6	148,214	8	FOREST VIEW DR	2022	6/1/1973
3328	Northeast WRF	253A4020.1	302	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	10	233,194	8			6/1/1974
3329	Northeast WRF	232A2040.1	218	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	7	166,080	8			6/1/1977
3330	Northeast WRF	281A1055.1	109	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	4	83,116	8			
3331	Northeast WRF	244B8085.1	22	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	1	13,700	8			4/1/1986
3332	Northeast WRF	253A4045.1	138	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	3	96,275	8			6/1/1974
3333	Northeast WRF	263A2055.1	311	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	10	239,061	8	W MANOR AVE	2023	6/1/1974
3334	Northeast WRF	232A2075.1	274	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	9	211,081	8			6/1/1977
3335	Northeast WRF	253B8075.1	167	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	5	123,975	8			6/1/1979
3336	Northeast WRF	273B6065.1	310	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	10	238,641	8	CANDLEWOOD ST	2020	6/1/1972
3337	Northeast WRF	263A2030.1	330	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	12	260,655	8	W MANOR AVE	2023	6/1/1974
3338	Northeast WRF	273B8070.1	249	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	8	190,439	8	NUTWOOD ST	2020	6/1/1972
3339	Northeast WRF	211B8085.1	236	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	7	177,530	8			6/1/1981
3340	Northeast WRF	232A2105.1	220	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	7	167,204	8			6/1/1977
3341	Northeast WRF	188B7005.1	113	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	6	95,528	8			6/1/1978
3342	Northeast WRF	253A4075.1	132	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	6	107,224	8			6/1/1974
3343	Northeast WRF	232A2080.1	189	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	9	157,906	8			6/1/1977
3344	Northeast WRF	232A4100.1	303	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	10	234,254	8			6/1/1974
3345	Northeast WRF	233A1230.1	165	Yes	1	2	1x2	Regular Monitoring	Replace	VCP	PVC	[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is No	Y-Y-N-N-N-N-N-Y-Y-N	4	117,767	8			2/3/2005
3346	Northeast WRF	178A4120.1	317	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1979
3347	Northeast WRF	189A3085.1	368	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1978
3348	Northeast WRF	265A1020.1	377	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1972
3349	Northeast WRF	263A4040.1	201	Yes	1	2	1x2	Regular Monitoring	No Action	PVC		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	CASEY JONES CT	2023	6/1/1984
3350	Northeast WRF	264B6170.1	227	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1971
3351	Northeast WRF	273B6110.1	294	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	HOLLYWOOD AVE	2020	6/1/1972
3352	Northeast WRF	178A4140.1	59	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1979
3353	Northeast WRF	178A4125.1	180	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1979
3354	Northeast WRF	189B5040.1	154	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	HYDE PARK DR	2022	6/1/1979
3355	Northeast WRF	232A2020.1	182	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1977
3356	Northeast WRF	252B8095.1	224	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1970
3357	Northeast WRF	178A1080.1	296	Yes	1	2	1x2	Regular Monitoring	No Action	PVC		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1983
3358	Northeast WRF	234A1095.1	100	Yes	1	2	1x2	Regular Monitoring	No Action	PVC		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1998
3359	Northeast WRF	272B5060.1	116	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	MIDNIGHT PASS WAY	2023	4/1/1981
3360	Northeast WRF	244B8065.1	288	Yes	1	2	1x2	Regular Monitoring	No Action	PVC		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1998
3361	Northeast WRF	178A4040.1	267	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1979
3362	Northeast WRF	178A4100.1	86	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1979
3363	Northeast WRF	281A4040.1	91	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			
3364	Northeast WRF	272B5030.1	306	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	MIDNIGHT PASS WAY	2023	4/1/1981
3365	Northeast WRF	211A1010.1	263	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	CLUBHOUSE DR W	2022	6/1/1977
3366	Northeast WRF	200B6055.1	252	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1978
3367	Northeast WRF	211A3035.1	209	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	WESTCHESTER DR N	2022	6/1/1973
3368	Northeast WRF	211B7090.1	288	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1976
3369	Northeast WRF	252B8055.1	245	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1970
3370	Northeast WRF	232A4085.1	259	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1974
3371	Northeast WRF	232A4095.1	241	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1974
3372	Northeast WRF	263B6100.1	357	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	MIDNIGHT PASS WAY	2023	4/1/1981
3373	Northeast WRF	232A4090.1	394	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1974
3374	Northeast WRF	232A4120.1	61	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1974
3375	Northeast WRF	244B8070.1	342	Yes	1	2	1x2	Regular Monitoring	No Action	PVC		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1998
3376	Northeast WRF	178A4010.1	72	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1979
3377	Northeast WRF	178A4085.1	292	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1979
3378	Northeast WRF	232A4055.1	260	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1974
3379	Northeast WRF	232A4010.1	250	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1973
3380	Northeast WRF	234A1115.1	251	Yes	1	2	1x2	Regular Monitoring	No Action	PVC		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1998
3381	Northeast WRF	232A4020.1	402	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1973
3382	Northeast WRF	252B8075.1	252	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1970
3383	Northeast WRF	252B8085.1	270	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1970
3384	Northeast WRF	211A3055.1	317	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	SEA PINES CIR W	2022	6/1/1973
3385	Northeast WRF	263B6095.1	307	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	COACH WHIP TER	2023	6/1/1981
3386	Northeast WRF	253A4090.1	264	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1974
3387	Northeast WRF	189A3050.1	316	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1978
3388	Northeast WRF	189A3025.1	285	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1978
3389	Northeast WRF	211B7070.1	284	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1976
3390	Northeast WRF	234A1100.1	130	Yes	1	2	1x2	Regular Monitoring	No Action	PVC		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8			6/1/1998
3391	Northeast WRF	200A4040.1	349	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	WESTCHESTER DR N	2022	6/1/1973
3392	Northeast WRF	272B5070.1	302	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	EL TAIR TRL	2023	4/1/1981
3393	Northeast WRF	263A4030.1	156	Yes	1	2	1x2	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]("RehabMethod" = 'LIN

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
3395	Northeast WRF	265A1060.1	255	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-N-Y	6	80,470	8			6/1/1972
3396	Northeast WRF	188B7040.1	277	Yes	1	2	1x2	Regular Monitoring	Lining	VCP		[Number of Rehabilitations]("RehabMethod" = 'LINING') >= (1) is Yes	Y-Y-N-N-N-N-N-N-Y	7	90,337	8			6/1/1978
3397	Northeast WRF	244A2040.1	257	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	72,471	12			6/1/1984
3398	Northeast WRF	244A2080.1	162	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	49,705	12			6/1/1984
3399	Northeast WRF	272B5005.1	379	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	10	136,163	10	EL TAIR TRL	2023	4/1/1981
3400	Northeast WRF	272B5080.1	345	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	9	123,618	10	RIDGE TOP WAY	2023	4/1/1981
3401	Northeast WRF	264A2005.1	279	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	77,885	12			6/1/1967
3402	Northeast WRF	272B5055.1	298	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	82,996	10	RIDGE TOP WAY	2023	4/1/1981
3403	Northeast WRF	264A2015.1	262	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	73,660	12			6/1/1967
3404	Northeast WRF	189B5055.1	311	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	103,604	8	MASTERS DR	2022	6/1/1979
3405	Northeast WRF	253A4005.1	347	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	10	126,363	8			6/1/1974
3406	Northeast WRF	265A1045.1	360	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	114,339	8			6/1/1972
3407	Northeast WRF	232A2030.1	387	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	100,056	8			6/1/1977
3408	Northeast WRF	263B6075.1	295	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	105,111	8	STAG RUN BLVD	2023	6/1/1981
3409	Northeast WRF	272B5075.1	192	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	57,658	8	FLINT LOCK DR	2023	6/1/1984
3410	Northeast WRF	290A3095.1	380	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	123,588	8			6/1/1973
3411	Northeast WRF	189B5065.1	399	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	9	132,732	8	HYDE PARK DR	2022	6/1/1979
3412	Northeast WRF	211B6005.1	271	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	8	99,873	8	CEDAR RUN CT	2022	6/1/1973
3413	Northeast WRF	232A2025.1	152	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	48,941	8			6/1/1977
3414	Northeast WRF	279B8100.1	342	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	110,322	8			
3415	Northeast WRF	263A3005.1	226	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	75,047	8	PRINCETON DR	2020	6/1/1970
3416	Northeast WRF	222B6075.1	223	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	59,517	8			6/1/1977
3417	Northeast WRF	222B7055.1	274	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	80,521	8			6/1/1976
3418	Northeast WRF	222B7050.1	279	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	101,663	8			6/1/1976
3419	Northeast WRF	234A2045.1	247	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	79,722	8			6/1/1980
3420	Northeast WRF	234A2055.1	254	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	81,174	8			6/1/1980
3421	Northeast WRF	281A3060.1	238	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	82,638	8			6/1/1968
3422	Northeast WRF	234A2015.1	163	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	56,417	8			6/1/1980
3423	Northeast WRF	281A3090.1	347	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	101,475	8			
3424	Northeast WRF	189B8010.1	375	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	97,523	8			6/1/1979
3425	Northeast WRF	281A1005.1	315	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	109,482	8			6/1/1973
3426	Northeast WRF	200A1090.1	292	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	79,437	8	CLUBHOUSE DR N	2022	6/1/1977
3427	Northeast WRF	264B8035.1	172	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	58,232	8	SUE DR	2022	6/1/1969
3428	Northeast WRF	222B8095.1	218	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	78,401	8			6/1/1977
3429	Northeast WRF	234A2020.1	308	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	93,025	8			6/1/1980
3430	Northeast WRF	234A2035.1	311	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	108,589	8			6/1/1980
3431	Northeast WRF	232A2060.1	262	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	92,943	8			6/1/1977
3432	Northeast WRF	253A4060.1	256	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	86,567	8			6/1/1974
3433	Northeast WRF	253A4025.1	365	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	11	135,338	8			6/1/1974
3434	Northeast WRF	253A4010.1	355	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	11	133,096	8			6/1/1974
3435	Northeast WRF	232A2010.1	197	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	63,698	8			6/1/1977
3436	Northeast WRF	263A1010.1	400	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	11	142,937	8			6/1/1972
3437	Northeast WRF	281A3035.1	362	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	114,627	8			6/1/1968
3438	Northeast WRF	189B8005.1	318	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	85,046	8			6/1/1980
3439	Northeast WRF	279B8080.1	370	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	9	126,439	8			
3440	Northeast WRF	232A2120.1	377	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	10	132,914	8			6/1/1977
3441	Northeast WRF	281A1035.1	325	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	106,514	8			6/1/1973
3442	Northeast WRF	200A1095.1	304	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	107,055	8	CLUBHOUSE DR N	2022	6/1/1977
3443	Northeast WRF	211B6015.1	251	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-Y-Y-Y	5	80,429	8	CEDAR RUN CT	2022	6/1/1973
3444	Northeast WRF	234A2090.1	277	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	81,091	8			6/1/1980
3445	Northeast WRF	263A3035.1	309	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	108,197	8			6/1/1971
3446	Northeast WRF	232B7025.1	250	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	65,341	8			6/1/1979
3447	Northeast WRF	264B8085.1	381	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	12	143,881	8	LEONARD DR	2022	6/1/1973
3448	Northeast WRF	211B8080.1	226	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	80,044	8			6/1/1981
3449	Northeast WRF	263A3070.1	315	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	10	119,447	8			6/1/1971
3450	Northeast WRF	264B8060.1	341	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	100,108	8	SUE DR	2022	6/1/1969
3451	Northeast WRF	189B7065.1	348	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	86,538	8			6/1/1980
3452	Northeast WRF	263A1025.1	300	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	96,184	8			6/1/1974
3453	Northeast WRF	281A1110.1	189	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	52,109	8			
3454	Northeast WRF	211B8045.1	199	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	74,116	8			6/1/1976
3455	Northeast WRF	232A2100.1	251	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	65,556	8			6/1/1977
3456	Northeast WRF	253A4055.1	261	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	87,741	8			6/1/1974
3457	Northeast WRF	234A2095.1	237	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	87,557	8			6/1/1980
3458	Northeast WRF	178A4080.1	377	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	11	138,037	8			6/1/1979
3459	Northeast WRF	189B5050.1	422	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	10	142,812	8	HYDE PARK DR	2022	6/1/1979
3460	Northeast WRF	200B6045.1	235	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	77,096	8			6/1/1978
3461	Northeast WRF	234A2005.1	250	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	90,228	8			6/1/1980
3462	Northeast WRF	234A2075.1	290	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	98,989	8			6/1/1980
3463	Northeast WRF	232A4105.1	240	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	6	83,139	8			6/1/1974
3464	Northeast WRF	232A2065.1	300	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	106,080	8			6/1/1977
3465	Northeast WRF	289B7035.1	158	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	50,307	8			2/3/2008
3466	Northeast WRF	281A2010.1	258	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	72,014	8			
3467	Northeast WRF	211B5015.1	386	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	10	134,867	8	QUAIL HOLLOW RD W	2022	6/1/1973
3468	Northeast WRF	222A3035.1	192	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	52,753	8	PEACHTREE CIR E	2022	6/1/1977
3469	Northeast WRF	234A2040.1	382	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	10	133,984	8			6/1/1980
3470	Northeast WRF	234A2060.1	162	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	56,191	8			6/1/1980
3471	Northeast WRF	234A2065.1	387	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	125,045	8			6/1/1980
3472	Northeast WRF	178B6125.1	373	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	107,028	8	ALLAPATTAH DR	2022	6/1/1979
3473	Northeast WRF	222B7060.1	178	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	59,614	8			6/1/1976
3474	Northeast WRF	234A2050.1	355	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	113,184	8			6/1/1980
3475	Northeast WRF	252B8080.1	237	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	87,459	8			6/1/1970
3476	Northeast WRF	211B7020.1	230	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	70,986	8			6/1/1976
3477	Northeast WRF	222B8040.1	202	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	3	59,793	8			6/1/1977
3478	Northeast WRF	222B8120.1	329	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	82,506	8			6/1/1977
3479	Northeast WRF	222B7005.1	317	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	9	114,856	8			6/1/1976
3480	Northeast WRF	222B7015.1	315	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	9	114,414	8			6/1/1976
3481	Northeast WRF	234A2010.1	277	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	101,153	8			6/1/1980
3482	Northeast WRF	234A2025.1	284	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	9	107,668	8			6/1/1980
3483	Northeast WRF	253A4070.1	344	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	11	130,827	8			6/1/1974
3484	Northeast WRF	281A2005.1	260	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	8	97,483	8			
3485	Northeast WRF	253A4050.1	214	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	5	72,415	8			6/1/1974
3486	Northeast WRF	281A4005.1	123	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	37,603	8			6/1/1968
3487	Northeast WRF	262B8020.1	265	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	78,512	8			6/1/1977
3488	Northeast WRF	221A3010.1	119	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	36,913	8			6/1/1976
3489	Northeast WRF	234A2100.1	165	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	46,857	8			6/1/1980
3490	Northeast WRF	263A1105.1	201	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	4	64,639	8			6/1/1972
3491	Northeast WRF	280B6035.1	270	Yes	1	2	1x2	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	2	69,658	8			
3492	Northeast WRF	281A1045.1	79	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	6			
3493	Northeast WRF	255A3075.1	98	Yes	1	2	1x2	Regular Monitoring	Point Repair	DIP	

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
3503	Northeast WRF	273A3140.1	227	Yes	1	2	1x2	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-Y-N-N	1	10,925	8	EDENWOOD ST	2020	6/1/1972
3504	Northeast WRF	211A1040.1	216	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1984
3505	Northeast WRF	244A4040.1	233	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1984
3506	Northeast WRF	244A4045.1	274	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1984
3507	Northeast WRF	244A4030.1	266	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
3508	Northeast WRF	264A3140.1	230	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1995
3509	Northeast WRF	264A4120.1	328	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	THOMAS DR	2022	6/1/1984
3510	Northeast WRF	211A1030.1	168	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1984
3511	Northeast WRF	264B7025.1	147	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1983
3512	Northeast WRF	190A2015.1	264	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1987
3513	Northeast WRF	264A3175.1	124	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1995
3514	Northeast WRF	189B6025.1	211	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	SUN GLOW WAY	2022	6/1/1980
3515	Northeast WRF	252B8035.1	286	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			6/1/1970
3516	Northeast WRF	264B7005.1	114	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1983
3517	Northeast WRF	281A2030.1	89	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1979
3518	Northeast WRF	264B7040.1	230	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1983
3519	Northeast WRF	265A1035.1	257	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	0	-	8			6/1/1972
3520	Northeast WRF	179A2080.1	215	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1986
3521	Northeast WRF	244A4020.1	249	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1984
3522	Northeast WRF	190A2010.1	164	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1987
3523	Northeast WRF	222B7020.1	141	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1976
3524	Northeast WRF	233B7095.1	291	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1986
3525	Northeast WRF	190A2005.1	176	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1987
3526	Northeast WRF	263A3060.1	247	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	PRINCETON DR	2020	6/1/1970
3527	Northeast WRF	261B8025.1	300	Yes	1	2	1x2	Regular Monitoring	Point Repair	CAS		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1963
3528	Northeast WRF	273B5030.1	125	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1974
3529	Northeast WRF	189A4040.1	221	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	MASTERS DR	2022	6/1/1980
3530	Northeast WRF	222B5015.1	171	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1982
3531	Northeast WRF	289B8075.1	300	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	RAINBOW DR	2018	2/3/2008
3532	Northeast WRF	222A3060.1	186	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8			
3533	Northeast WRF	264A3020.1	237	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1986
3534	Northeast WRF	244A4015.1	278	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1984
3535	Northeast WRF	211A1025.1	196	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[Number of Rehabilitations]["RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	1	10,925	8	CLUBHOUSE DR S	2022	6/1/1984
3536	Northeast WRF	189A4015.1	296	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	2	21,850	8	MASTERS DR	2022	6/1/1980
3537	Northeast WRF	264B7020.1	179	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1983
3538	Northeast WRF	265A1030.1	400	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1972
3539	Northeast WRF	289B7015.1	222	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			2/3/2008
3540	Northeast WRF	211A1054.1	52	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1984
3541	Northeast WRF	264A2065.1	139	Yes	1	2	1x2	Regular Monitoring	Point Repair	XXX		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	3	43,700	8			6/1/1983
3542	Northeast WRF	211A1045.1	367	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1984
3543	Northeast WRF	223A1090.1	210	Yes	1	2	1x2	Regular Monitoring	Point Repair	CT		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1976
3544	Northeast WRF	178A4025.1	275	Yes	1	2	1x2	Regular Monitoring	Point Repair	VCP		[Number of Rehabilitations]["RehabMethod" = 'CLEANING') >= (1) is No	Y-Y-N-N-N-N-N-Y-Y-N	0	-	8			6/1/1979
3545	Northeast WRF	189A4020.1	205	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8	MASTERS DR	2022	6/1/1980
3546	Northeast WRF	178B8005.1	156	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1980
3547	Northeast WRF	178B7125.1	286	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1980
3548	Northeast WRF	271B6055.1	32	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			6/1/1990
3549	Northeast WRF	280B6045.1	245	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
3550	Northeast WRF	280B6070.1	215	Yes	1	2	1x2	Regular Monitoring	Point Repair	FRP		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			
3551	Northeast WRF	233A3115.1	196	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			8/26/2003
3552	Northeast WRF	233A1200.1	42	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			2/3/2005
3553	Northeast WRF	233A1210.1	137	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			2/3/2005
3554	Northeast WRF	233A1225.1	158	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			2/3/2005
3555	Northeast WRF	244A1115.1	147	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			2/3/2005
3556	Northeast WRF	244A4502.2	224	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			10/22/2007
3557	Northeast WRF	283A1110.1	26	Yes	1	2	1x2	Regular Monitoring	Point Repair	PVC		[GravityMain.MATERIAL] = (RCP) is No	Y-Y-N-N-N-N-N-N-Y-N-N	1	10,925	8			10/1/2009
3558	Northeast WRF	273B6085.1	280	Yes	1	1	1x1	Regular Monitoring	No Action	VCP		[Number of Rehabilitations]["RehabMethod" = 'LINING') >= (1) is No	Y-Y-N-N-N-N-N-N-N-N	0	-	8	HOLLYWOOD AVE	2020	6/1/1972
3559	Northeast WRF	273B6055.1	289	Yes	1	1	1x1	Regular Monitoring	Point Repair and Lining	VCP		[Point Repair + Full Lining Cost] < (50)% of [Replacement Cost] is Yes	Y-Y-N-N-N-N-N-N-Y-Y-Y	7	98,873	8	JADEWOOD AVE	2020	6/1/1972
3560	Marshall Street WRF	285A3100.1	40	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	120	15			
3561	Marshall Street WRF	258A4045.1	212	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	637	10	MANDALAY AVE	2021	6/1/1963
3562	Marshall Street WRF	258A3035.1	158	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	473	6	ACACIA ST	2021	6/1/1963
3563	Marshall Street WRF	267A2030.1	236	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	708	10			
3564	Marshall Street WRF	258B5005.1	32	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	97	12			6/1/1969
3565	Marshall Street WRF	305B5095.1	16	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	48	15			
3566	Marshall Street WRF	306A4035.1	37	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	112	12			
3567	Marshall Street WRF	267A2020.1	376	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,127	10			
3568	Marshall Street WRF	278B7010.1	229	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	688	18			6/1/1965
3569	Marshall Street WRF	253A2040.1	239	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	716	10			6/1/1961
3570	Marshall Street WRF	251B8035.1	16	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	48	12	KINGS HWY	2019	6/1/1965
3571	Marshall Street WRF	269A1140.1	219	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	658	24			
3572	Marshall Street WRF	267A1015.1	430	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,291	15	MANDALAY AVE	2021	
3573	Marshall Street WRF	278B7040.1	306	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	918	15			
3574	Marshall Street WRF	305B5055.1	33	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	99	12			
3575	Marshall Street WRF	278A1085.1	461	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,382	24			
3576	Marshall Street WRF	269B7115.1	20	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	59	10			
3577	Marshall Street WRF	252A4005.1	113	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	339	10	N HIGHLAND AVE	2019	
3578	Marshall Street WRF	287B8155.1	398	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,195	24			
3579	Marshall Street WRF	278B5010.1	96	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	289	6			
3580	Marshall Street WRF	269A3085.1	308	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	924	24			
3581	Marshall Street WRF	286B6040.1	27	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	82	30			
3582	Marshall Street WRF	278A1100.1	298	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	895	12			
3583	Marshall Street WRF	286B6055.1	195	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	585	15	PIERCE ST	2021	
3584	Marshall Street WRF	286B6190.1	240	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	720	18			
3585	Marshall Street WRF	269B6015.1	24	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	71	24			
3586	Marshall Street WRF	270A2130.1	43	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	128	15			
3587	Marshall Street WRF	269A1120.1	53	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	159	24			
3588	Marshall Street WRF	270A4065.1	285	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	854	12	FLAGLER DR	2018	6/1/1995
3589	Marshall Street WRF	269A1175.1	47	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	142	24			
3590	Marshall Street WRF	306A2035.1	316	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	949	12			
3591	Marshall Street WRF	270A1110.1	45	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	134	10			
3592	Marshall Street WRF	297A1005.1	38	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	115	10			
3593	Marshall Street WRF	278B7035.1	221	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	664	15			
3594	Marshall Street WRF	286B8080.1	99	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	296	10	FRANKLIN ST	2021	
3595	Marshall Street WRF	279A1020.1	421	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,262	15			
3596	Marshall Street WRF	269A3105.1	323	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	968	24			
3597	Marshall Street WRF	285A3085.1	204	No	5	4	5x4	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	613	15			
3598	Marshall Street WRF	305B5045.1	89	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	267	12			
3599	Marshall Street WRF	287A1200.1	232	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	695	10			
3600	Marshall Street WRF	305B5210.1	325	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	974	10			
3601	Marshall Street WRF	269A3090.1	310	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	931	24			
3602	Marshall Street WRF	260B8060.1	327	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	982	18			
3603	Marshall Street WRF	296B7020.1	281	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	843	10			
3604	Marshall Street WRF	278B7020.1	120	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	361	15			6/1/1965
3605	Marshall Street WRF	258A3117.1	130	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	389	10	MANDALAY AVE	2021	6/1/1963

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
3606	Marshall Street WRF	279A1015.1	300	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	901	15			
3607	Marshall Street WRF	269B5120.1	322	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	966	30			
3608	Marshall Street WRF	269A1105.1	24	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	71	24			
3609	Marshall Street WRF	287A3060.1	216	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	648	6	NE CLEVELAND ST	2021	
3610	Marshall Street WRF	269B6035.1	116	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	349	30			
3611	Marshall Street WRF	279A3085.1	118	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	353	12			
3612	Marshall Street WRF	279A3100.1	185	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	556	12			
3613	Marshall Street WRF	270A2131.1	15	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	45	15			
3614	Marshall Street WRF	285A3090.1	25	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	75	15			
3615	Marshall Street WRF	267A1040.1	195	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	585	12			
3616	Marshall Street WRF	279A2060.1	352	No	5	3	5x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,055	10	HILLCREST DR	2020	
3617	Marshall Street WRF	305B5090.1	57	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	171	10			
3618	Marshall Street WRF	286B8150.1	318	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	954	12	FRANKLIN ST	2021	
3619	Marshall Street WRF	270A1115.1	121	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	362	10			
3620	Marshall Street WRF	287B7110.1	90	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	269	24			
3621	Marshall Street WRF	270A4055.1	123	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	368	12	FLAGLER DR	2018	6/1/1995
3622	Marshall Street WRF	279A3060.1	44	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	133	12			
3623	Marshall Street WRF	279A3095.1	139	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	417	12			
3624	Marshall Street WRF	279A1030.1	204	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	613	15			
3625	Marshall Street WRF	278A1100.2	248	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	743	10	MAPLE ST	2018	
3626	Marshall Street WRF	269A1110.1	161	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	483	24			
3627	Marshall Street WRF	267A1025.1	393	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,179	12			
3628	Marshall Street WRF	260A1045.1	289	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	868	10	CALUMET ST	2022	
3629	Marshall Street WRF	286B5810.1	296	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	888	12	FRANKLIN ST	2021	
3630	Marshall Street WRF	251B8060.1	323	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	969	10	KINGS HWY	2019	
3631	Marshall Street WRF	278B7015.1	184	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	551	18			6/1/1965
3632	Marshall Street WRF	279A1025.1	109	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	328	15			
3633	Marshall Street WRF	269A3080.1	467	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,402	24			
3634	Marshall Street WRF	286B6165.1	25	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	76	18			
3635	Marshall Street WRF	261A2095.1	354	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,063	18			
3636	Marshall Street WRF	269B6062.1	138	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	413	6			
3637	Marshall Street WRF	278B7025.1	226	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	677	15			
3638	Marshall Street WRF	279A1010.1	289	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	868	15			
3639	Marshall Street WRF	305B5020.1	179	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	537	12			
3640	Marshall Street WRF	269B5125.1	433	No	5	4	5x4	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,300	30			
3641	Marshall Street WRF	287B7140.1	95	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	286	24			
3642	Marshall Street WRF	278B7005.1	24	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	71	18			
3643	Marshall Street WRF	286B8090.1	23	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	70	12	FRANKLIN ST	2021	
3644	Marshall Street WRF	305B5180.1	282	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	846	12			
3645	Marshall Street WRF	305B5135.1	30	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	91	12			
3646	Marshall Street WRF	278A1150.1	292	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	877	18	MAPLE ST	2018	
3647	Marshall Street WRF	277B8070.1	319	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	957	18	HART ST	2018	
3648	Marshall Street WRF	286B6060.1	140	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	421	18	PIERCE ST	2021	
3649	Marshall Street WRF	267A2035.1	103	No	4	3	4x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	308	10			
3650	Marshall Street WRF	305B5075.1	27	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	81	12			
3651	Marshall Street WRF	269B6061.1	29	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	86	6			
3652	Marshall Street WRF	285A3095.1	49	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	148	15			
3653	Marshall Street WRF	286B6050.1	112	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	336	18	PIERCE ST	2021	
3654	Marshall Street WRF	286B6045.1	160	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	481	18	PIERCE ST	2021	
3655	Marshall Street WRF	251B8080.1	334	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,003	10	KINGS HWY	2019	
3656	Marshall Street WRF	261A2080.1	109	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	327	12			
3657	Marshall Street WRF	269B6020.1	424	No	5	4	5x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,271	24			
3658	Marshall Street WRF	287A1080.1	49	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	146	10	PARK ST	2021	
3659	Marshall Street WRF	287B8135.1	29	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	86	24			
3660	Marshall Street WRF	279A3055.1	115	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	345	12			
3661	Marshall Street WRF	279A3065.1	118	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	353	12			
3662	Marshall Street WRF	288A3020.1	225	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	674	10	N CREST AVE	2020	
3663	Marshall Street WRF	277B7070.1	257	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	770	6			
3664	Marshall Street WRF	287A2065.1	6	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	19	15	FRANKLIN ST	2021	
3665	Marshall Street WRF	260A1050.1	36	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	108	10	CALUMET ST	2022	
3666	Marshall Street WRF	258A2015.1	38	No	5	1	5x1	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	113	4			6/1/1963
3667	Marshall Street WRF	249A3105.1	57	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	170	10	VERBENA ST	2021	
3668	Marshall Street WRF	258A4085.1	313	No	5	4	5x4	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	940	12	MANDALAY AVE	2021	6/7/2008
3669	Marshall Street WRF	285A3075.1	248	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	743	15			
3670	Marshall Street WRF	269A1085.1	28	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	84	24			
3671	Marshall Street WRF	277B8025.1	211	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	634	18			
3672	Marshall Street WRF	278A2035.1	198	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	595	18	VINE AVE	2018	
3673	Marshall Street WRF	258A3080.1	297	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	892	6			6/1/1963
3674	Marshall Street WRF	258A4080.1	221	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	664	12	MANDALAY AVE	2021	
3675	Marshall Street WRF	258A3045.1	37	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	111	6	ACACIA ST	2021	6/1/1963
3676	Marshall Street WRF	267A2005.1	177	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	532	12			
3677	Marshall Street WRF	260A1055.1	289	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	866	10	CALUMET ST	2022	
3678	Marshall Street WRF	269A2005.1	172	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	516	24			
3679	Marshall Street WRF	287B7130.1	171	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	514	10			
3680	Marshall Street WRF	258A4052.1	180	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	540	12	MANDALAY AVE	2021	6/1/1963
3681	Marshall Street WRF	258A3030.1	94	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	282	6	MANDALAY AVE	2021	6/1/1963
3682	Marshall Street WRF	267A3025.1	84	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	253	15	MANDALAY AVE	2021	
3683	Marshall Street WRF	267A2010.1	45	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	134	10			
3684	Marshall Street WRF	285A3015.1	248	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	744	15			
3685	Marshall Street WRF	305B5110.1	37	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	112	12			
3686	Marshall Street WRF	278A1165.1	310	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	931	21	VINE AVE	2018	
3687	Marshall Street WRF	287A1060.1	51	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	153	10			
3688	Marshall Street WRF	269A3100.1	13	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	40	24			
3689	Marshall Street WRF	287B7045.1	270	No	4	4	4x4	CCTV Short Term	CCTV Short Term	DIP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	811	24			
3690	Marshall Street WRF	279A3075.1	119	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	358	12			
3691	Marshall Street WRF	260B8055.1	148	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	443	18			
3692	Marshall Street WRF	278B7030.1	28	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	85	15			
3693	Marshall Street WRF	277B8140.1	33	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	98	15			
3694	Marshall Street WRF	306A4005.1	50	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	150	12			
3695	Marshall Street WRF	261A2090.1	265	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	796	12			
3696	Marshall Street WRF	253A2060.1	255	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	764	10			6/1/1961
3697	Marshall Street WRF	277B8110.1	147	No	5	2	5x2	CCTV Short Term	CCTV Short Term	LIN		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	442	12	N GARDEN AVE	2018	
3698	Marshall Street WRF	277B9010.1	144	No	5	3	5x3	CCTV Short Term	CCTV Short Term	LIN		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	432	12	N GARDEN AVE	2018	
3699	Marshall Street WRF	267B8050.1	105	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	314	10			
3700	Marshall Street WRF	286B7010.1	32	No	5	3	5x3	CCTV Short Term	CCTV Short Term	LIN		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	96	12	N GARDEN AVE	2018	
3701	Marshall Street WRF	269B5111.1	73	No	4	5	4x5	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	220	18			
3702	Marshall Street WRF	269B7110.1	256	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	769	10			
3703	Marshall Street WRF	269B7120.1	428	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,283	18			
3704	Marshall Street WRF	269B5100.1	295	No	5	4	5x4	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	885	18			
3705	Marshall Street WRF	295B5045.1	325	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	974	18	BAY AVE	2020	
3706	Marshall Street WRF	259B7041.1	283	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	848	10	CALUMET ST	2022	
3707	Marshall Street WRF	260A5025.1	288	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	864	6			
3708	Marshall Street WRF	277B1000.1	22	No	5	2	5x2	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	67	10			
3709	Marshall Street WRF	305B5140.1	229	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	687	12			
3710	Marshall Street WRF	305B5150.1	291	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	872	12			
3711	Marshall Street WRF	305B5155.1	181	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	544	12			
3712	Marshall Street WRF	276A2135.1	35	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	106	15			
3713	Marshall Street WRF	287A9025.1	108	No	4	2	4x2	CCTV Short Term	CCTV Short Term	DIP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	324	6	PARK ST	2021	
3714	Marshall Street WRF	305B5100.1	84	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	252	15			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
3715	Marshall Street WRF	305B5070.1	310	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	931	15			
3716	Marshall Street WRF	305A3030.1	146	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	437	15			
3717	Marshall Street WRF	276A1086.1	431	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,294	6			
3718	Marshall Street WRF	276A1010.1	190	No	4	3	4x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	571	10			
3719	Marshall Street WRF	267A2050.1	252	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	755	10			
3720	Marshall Street WRF	267A2070.1	254	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	761	10			
3721	Marshall Street WRF	260A3120.1	29	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	88	12			6/1/1980
3722	Marshall Street WRF	295B5015.1	312	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	936	18	ROGERS ST	2020	
3723	Marshall Street WRF	305A3075.1	18	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	53	15			9/6/2016
3724	Marshall Street WRF	267A4105.1	273	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	819	6			
3725	Marshall Street WRF	267B8090.1	28	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	85	15			
3726	Marshall Street WRF	269A2035.1	180	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	540	24			
3727	Marshall Street WRF	268B8105.1	275	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	824	15			
3728	Marshall Street WRF	269A2055.1	199	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	597	24			
3729	Marshall Street WRF	269A2040.1	55	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	164	24			
3730	Marshall Street WRF	276A2145.1	358	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,075	15			
3731	Marshall Street WRF	285A1005.1	358	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,074	15			
3732	Marshall Street WRF	267B8065.1	166	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	499	15			
3733	Marshall Street WRF	267B6155.2	27	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	82	6			
3734	Marshall Street WRF	258A4082.1	320	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	960	6	MANDALAY AVE	2021	
3735	Marshall Street WRF	267B8035.1	116	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	349	15			
3736	Marshall Street WRF	267B8045.1	312	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	937	10			
3737	Marshall Street WRF	286B8005.1	141	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	423	18	PIERCE ST	2021	
3738	Marshall Street WRF	286B8010.1	49	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	146	10	PIERCE ST	2021	
3739	Marshall Street WRF	286B8010.2	430	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,289	10	PIERCE ST	2021	
3740	Marshall Street WRF	286B7145.2	86	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	258	12	S GARDEN AVE	2021	
3741	Marshall Street WRF	287B8195.1	201	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	602	6	N LINCOLN AVE	2021	
3742	Marshall Street WRF	296B8180.1	105	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	315	6			
3743	Marshall Street WRF	295B5040.1	240	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	721	10	BAY AVE	2020	
3744	Marshall Street WRF	252A4190.1	17	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	52	10	N HIGHLAND AVE	2019	
3745	Marshall Street WRF	252A4185.1	20	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	61	10	BYRAM DR	2019	
3746	Marshall Street WRF	295B7115.1	222	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	665	6			
3747	Marshall Street WRF	267A3020.1	19	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	58	18	MANDALAY AVE	2021	
3748	Marshall Street WRF	287A2170.1	140	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	421	10	PARK ST	2021	
3749	Marshall Street WRF	269B6013.1	18	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	53	6			
3750	Marshall Street WRF	269B6011.1	20	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	61	6			
3751	Marshall Street WRF	305B5170.1	260	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	781	12			
3752	Marshall Street WRF	305B5160.1	22	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	66	12			
3753	Marshall Street WRF	269B5112.1	24	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	72	18			
3754	Marshall Street WRF	295B5060.1	39	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	118	10	TURNER ST	2020	
3755	Marshall Street WRF	286B6064.1	39	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	118	18	PIERCE ST	2021	
3756	Marshall Street WRF	286B6042.1	107	No	4	4	4x4	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	321	18	PIERCE ST	2021	
3757	Marshall Street WRF	286B6066.1	240	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	719	18	PIERCE ST	2021	
3758	Marshall Street WRF	283A6139.1	127	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	381	18			
3759	Marshall Street WRF	286B7020.1	30	No	5	3	5x3	CCTV Short Term	CCTV Short Term	LIN		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	90	12	N GARDEN AVE	2021	
3760	Marshall Street WRF	277B1012.1	28	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	83	10			
3761	Marshall Street WRF	278A1130.2	22	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	66	15			
3762	Marshall Street WRF	286B5805.1	114	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	342	12			
3763	Marshall Street WRF	286B8075.1	90	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	270	12	FRANKLIN ST	2021	
3764	Marshall Street WRF	286B8150.1	43	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	129	12	FRANKLIN ST	2021	
3765	Marshall Street WRF	286B5815.1	80	No	4	2	4x2	CCTV Short Term	CCTV Short Term	DIP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	240	12	FRANKLIN ST	2021	
3766	Marshall Street WRF	276A2195.1	40	No	5	2	5x2	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	120	6			5/17/2005
3767	Marshall Street WRF	276A2200.1	21	No	5	2	5x2	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	63	6			5/17/2005
3768	Marshall Street WRF	286B7110.2	230	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	690		N GARDEN AVE	2021	
3769	Marshall Street WRF	285A3065.2	35	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	104	6			
3770	Marshall Street WRF	285A3075.1	138	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	415	15			
3771	Marshall Street WRF	285A3150.1	245	No	5	4	5x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	735	12			
3772	Marshall Street WRF	285A3100.2	16	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	48	12			
3773	Marshall Street WRF	286B6041.1	36	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	108	30			
3774	Marshall Street WRF	286B1255.2	18	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	54	30			
3775	Marshall Street WRF	288B5012.1	90	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	270	8			6/1/1962
3776	Marshall Street WRF	258A4050.1	90	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	270	12	MANDALAY AVE	2021	6/1/1963
3777	Marshall Street WRF	258A4062.1	42	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	126	6			6/1/1963
3778	Marshall Street WRF	277B1015.1	24	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	72				
3779	Marshall Street WRF	276A3115.1	12	No	5	2	5x2	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	36	10			12/22/2009
3780	Marshall Street WRF	287B7100.2	253	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	758	6			
3781	Marshall Street WRF	276A2030.1	35	No	5	3	5x3	CCTV Short Term	CCTV Short Term	DIP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	105	16			2/27/2009
3782	Marshall Street WRF	269A3315.1	50	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	150	12			3/16/2011
3783	Marshall Street WRF	269A3310.1	429	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,287	12			3/16/2011
3784	Marshall Street WRF	251A2055.2	85	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	256		SEDEEVA ST	2023	1/1/1961
3785	Marshall Street WRF	251A2065.2	64	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	192				6/1/1964
3786	Marshall Street WRF	251A4080.2	143	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	429				6/1/1964
3787	Marshall Street WRF	238A3070.1	37	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	110	8	BRUCE AVE	2021	
3788	Marshall Street WRF	249A1020.1	271	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	812	8	ELDORADO AVE	2021	6/1/1963
3789	Marshall Street WRF	249A3085.1	342	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,027	8	MANDALAY AVE	2021	6/1/1963
3790	Marshall Street WRF	258A3120.1	176	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	529	8	MANDALAY AVE	2021	6/1/1963
3791	Marshall Street WRF	294A2020.1	113	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	339	8			
3792	Marshall Street WRF	258B7025.1	219	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	658	8			6/1/1968
3793	Marshall Street WRF	258B7020.1	29	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	86	8			6/1/1968
3794	Marshall Street WRF	287B5055.1	362	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,087	8	GROVE ST	2021	
3795	Marshall Street WRF	260A2095.1	201	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	604	8	APACHE TRL	2022	
3796	Marshall Street WRF	269A1060.1	307	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	920	8			
3797	Marshall Street WRF	269A2210.1	285	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	855	8			
3798	Marshall Street WRF	277B7150.1	254	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	763	8	ALDEN AVE	2018	
3799	Marshall Street WRF	286B8060.1	144	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	433	8	FRANKLIN ST	2021	
3800	Marshall Street WRF	295B8060.1	153	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	458	8			
3801	Marshall Street WRF	286B6080.1	179	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	536	8	PIERCE ST	2021	
3802	Marshall Street WRF	286B6120.1	151	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	452	8			
3803	Marshall Street WRF	260A3085.1	104	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	311	8			
3804	Marshall Street WRF	296A3145.1	148	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	444	8			
3805	Marshall Street WRF	278A4025.1	285	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	856	8	N WASHINGTON AVE	2018	
3806	Marshall Street WRF	278A1175.1	32	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	95	8	PENNSYLVANIA AVE	2018	
3807	Marshall Street WRF	279A2120.1	290	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	870	8	MARIVA AVE	2020	
3808	Marshall Street WRF	258A4055.1	76	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	227	8	MANDALAY AVE	2021	6/1/1963
3809	Marshall Street WRF	258A4035.1	154	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	463	8	MANDALAY AVE	2021	6/1/1963
3810	Marshall Street WRF	267A2040.1	66	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	199	8			
3811	Marshall Street WRF	286B6025.1	22	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	66	8			
3812	Marshall Street WRF	267B8135.1	97	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	292	8			
3813	Marshall Street WRF	260B8040.1	284	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	852	8			
3814	Marshall Street WRF	269B8035.1	106	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	319	8			
3815	Marshall Street WRF	287B7015.1	25	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	75	8			
3816	Marshall Street WRF	288A2005.1	241	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	723	8	PARK ST	2020	
3817	Marshall Street WRF	288A2190.1	62	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	186	8			
3818	Marshall Street WRF	269B8080.1	189	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	566	8			
3819	Marshall Street WRF	269B8045.1	271	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	813	8			
3820	Marshall Street WRF	269B8050.1	161	No	5	2	5x2	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	482	8			
3821	Marshall Street WRF	269B6130.1	354	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,062	8			
3822	Marshall Street WRF	269B6090.1	43	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	129	8			
3823	Marshall Street WRF	287B6140.1	146	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	438	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
3824	Marshall Street WRF	261A4125.1	184	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	552	8			
3825	Marshall Street WRF	261B6095.1	86	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	258	8	LOGAN ST	2018	6/1/1960
3826	Marshall Street WRF	279A4085.1	138	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	415	8			
3827	Marshall Street WRF	279B5065.1	294	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	882	8			6/1/1965
3828	Marshall Street WRF	270A1035.1	39	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	116	8			
3829	Marshall Street WRF	279A4080.1	137	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	411	8			
3830	Marshall Street WRF	252B7075.1	291	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	872	8			6/1/1962
3831	Marshall Street WRF	253A1105.1	394	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,181	8			6/1/1967
3832	Marshall Street WRF	270B6035.1	109	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	326	8	CASLER AVE	2018	6/1/1965
3833	Marshall Street WRF	287B7150.1	173	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	519	8			
3834	Marshall Street WRF	271A1035.1	76	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	227	8			
3835	Marshall Street WRF	258A4070.1	281	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	842	8			6/1/1963
3836	Marshall Street WRF	258A1020.1	300	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	901	8	MANDALAY AVE	2021	6/1/1963
3837	Marshall Street WRF	258A2025.1	95	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	286	8			6/1/1963
3838	Marshall Street WRF	267A2025.1	181	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	543	8			
3839	Marshall Street WRF	276A1030.1	25	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	74	8			
3840	Marshall Street WRF	260A1030.1	201	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	604	8			6/1/1962
3841	Marshall Street WRF	286B8110.2	147	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	442	8			
3842	Marshall Street WRF	286B7230.1	238	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	714	8	PIERCE ST	2021	
3843	Marshall Street WRF	260A4005.1	71	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	213	8			
3844	Marshall Street WRF	269A3175.2	226	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	677	8			
3845	Marshall Street WRF	269A3180.1	112	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	336	8			
3846	Marshall Street WRF	278A4030.1	290	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	870	8	N MADISON AVE	2018	
3847	Marshall Street WRF	287B6180.1	138	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	414	8			
3848	Marshall Street WRF	269A1095.1	365	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,096	8			
3849	Marshall Street WRF	278A2015.1	146	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	438	8	LEE ST	2018	
3850	Marshall Street WRF	261A1115.1	290	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	869	8			6/1/1962
3851	Marshall Street WRF	288A1005.1	170	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	509	8	N SAN REMO AVE	2020	6/1/1967
3852	Marshall Street WRF	287B8090.1	200	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	600	8			
3853	Marshall Street WRF	287B8065.1	105	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	315	8			1/1/1999
3854	Marshall Street WRF	287B8120.1	91	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	272	8			
3855	Marshall Street WRF	269B6175.1	54	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	162	8			
3856	Marshall Street WRF	261A4115.1	88	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	264	8			
3857	Marshall Street WRF	252A2060.1	112	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	335	8	FLORA RD	2019	6/1/1965
3858	Marshall Street WRF	261A4120.1	80	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	240	8			
3859	Marshall Street WRF	270B5040.1	159	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	477	8	LYNN AVE	2018	
3860	Marshall Street WRF	279B6095.1	69	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	207	8			6/1/1963
3861	Marshall Street WRF	269A1070.1	42	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	125	8			
3862	Marshall Street WRF	277B7165.1	214	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	642	8	ALDEN AVE	2018	
3863	Marshall Street WRF	306B5085.1	87	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	261	8			
3864	Marshall Street WRF	313B8095.1	262	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	787	8			
3865	Marshall Street WRF	322A1030.1	234	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	702	8			
3866	Marshall Street WRF	249A4080.1	379	No	4	3	4x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,136	8	BAY ESPLANADE	2021	6/1/1963
3867	Marshall Street WRF	295B6025.1	322	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	967	8			
3868	Marshall Street WRF	260A2050.1	44	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	133	8	IROQUOIS ST	2022	
3869	Marshall Street WRF	268B8070.1	161	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	484	8			
3870	Marshall Street WRF	269A1025.2	245	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	734	8			
3871	Marshall Street WRF	269A1150.1	177	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	530	8			
3872	Marshall Street WRF	295B7060.1	151	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	453	8			
3873	Marshall Street WRF	286B8175.1	190	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	569	8			
3874	Marshall Street WRF	305B8035.1	53	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	158	8			
3875	Marshall Street WRF	286B6110.2	273	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	818	8	S OSCEOLA AVE	2021	
3876	Marshall Street WRF	313B7075.1	527	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,580	8			6/1/1973
3877	Marshall Street WRF	260A3005.1	85	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	255	8	SPRINGTIME AVE	2023	
3878	Marshall Street WRF	269A3055.1	103	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	309	8			
3879	Marshall Street WRF	278B5075.1	280	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	839	8			
3880	Marshall Street WRF	270B6090.1	172	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	515	8	WEBB DR	2018	6/1/1968
3881	Marshall Street WRF	279A4050.1	320	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	960	8			
3882	Marshall Street WRF	279B5025.1	347	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,041	8			
3883	Marshall Street WRF	252A4155.1	26	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	78	8			6/1/1967
3884	Marshall Street WRF	261A3080.1	154	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	463	8			6/1/1973
3885	Marshall Street WRF	270A1005.1	94	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	283	8			
3886	Marshall Street WRF	288A1015.1	302	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	905	8	N SAN REMO AVE	2020	6/1/1967
3887	Marshall Street WRF	261A4110.1	301	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	904	8			
3888	Marshall Street WRF	270B7010.1	207	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	622	8			6/1/1971
3889	Marshall Street WRF	279B6035.1	285	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	854	8			6/1/1963
3890	Marshall Street WRF	270B7005.1	305	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	915	8	N SATURN AVE	2018	6/1/1959
3891	Marshall Street WRF	270B6025.1	267	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	801	8	MACRAE AVE	2018	6/1/1968
3892	Marshall Street WRF	261A4045.1	361	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,083	8			6/1/1964
3893	Marshall Street WRF	270A2050.1	205	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	615	8			
3894	Marshall Street WRF	279A2025.1	86	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	257	8	MARIVA AVE	2020	
3895	Marshall Street WRF	279A2030.1	268	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	805	8	MAPLE ST	2020	
3896	Marshall Street WRF	288A2065.1	381	No	4	2	4x2	CCTV Short Term	CCTV Short Term	RMP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,143	8	FRANKLIN ST	2020	
3897	Marshall Street WRF	288A1020.1	225	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	676	8			6/1/1967
3898	Marshall Street WRF	270A4150.1	264	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	791	8			
3899	Marshall Street WRF	252A4170.1	246	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	738	8			6/1/1967
3900	Marshall Street WRF	296A3035.1	165	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	495	8			
3901	Marshall Street WRF	296B5120.1	27	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	81	8			
3902	Marshall Street WRF	260A1075.1	50	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	150	8	CALUMET ST	2022	
3903	Marshall Street WRF	260A2020.1	58	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	174	8	NOKOMIS ST	2022	
3904	Marshall Street WRF	287A3050.1	552	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,655	8	GROVE ST	2021	
3905	Marshall Street WRF	269B7015.1	10	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	31	8			
3906	Marshall Street WRF	270A2055.1	30	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	90	8			
3907	Marshall Street WRF	279A4125.1	95	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	286	8			
3908	Marshall Street WRF	261B6105.1	246	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	739	8	LOGAN ST	2018	6/1/1960
3909	Marshall Street WRF	270A3010.1	176	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	527	8	SCOTT ST	2018	6/1/1995
3910	Marshall Street WRF	270B6055.1	347	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,042	8	WEBB DR	2018	6/1/1968
3911	Marshall Street WRF	306B5030.1	115	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	346	8			
3912	Marshall Street WRF	249A4040.1	425	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,274	8	BAY ESPLANADE	2021	6/1/1963
3913	Marshall Street WRF	286B6020.1	75	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	224	8	PIERCE ST	2021	
3914	Marshall Street WRF	259B8025.1	139	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	418	8	PRINCESS ST	2022	
3915	Marshall Street WRF	268B8015.2	153	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	460	8			
3916	Marshall Street WRF	278A1005.1	180	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	541	8			
3917	Marshall Street WRF	286B6085.1	21	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	62	8	PIERCE ST	2021	
3918	Marshall Street WRF	269A3155.1	118	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	354	8			
3919	Marshall Street WRF	269A1035.1	320	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	960	8			
3920	Marshall Street WRF	269A1050.1	347	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,042	8			
3921	Marshall Street WRF	296A2070.1	382	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,145	8			
3922	Marshall Street WRF	287A4030.1	142	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	425	8			
3923	Marshall Street WRF	288A1010.1	43	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	128	8			
3924	Marshall Street WRF	287B8060.1	42	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	126	8			
3925	Marshall Street WRF	269B6160.1	377	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,131	8			
3926	Marshall Street WRF	278B6075.1	573	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,719	8	JACKSON RD	2018	
3927	Marshall Street WRF	270B5080.1	293	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	878	8			
3928	Marshall Street WRF	279B5045.1	135	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	406	8			6/1/1965
3929	Marshall Street WRF	261A3075.1	120	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	359	8			6/1/1975
3930	Marshall Street WRF	270A3040.1	394	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,181	8			
3931	Marshall Street WRF	288A3015.1	597	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,791	8	N CREST AVE	2020	
3932	Marshall Street WRF	253A2055.1	146	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	438	8			6/1/1978

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
3933	Marshall Street WRF	260B8075.2	155	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	466	8			
3934	Marshall Street WRF	238A4725.1	30	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	91	8	BRUCE AVE	2021	
3935	Marshall Street WRF	259B7045.1	49	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	147	8	VENETIAN POINT DR	2022	
3936	Marshall Street WRF	269B8040.1	14	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	42	8			
3937	Marshall Street WRF	296A1040.1	239	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	717	8			
3938	Marshall Street WRF	260A1056.1	150	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	449	8	CALUMET ST	2022	
3939	Marshall Street WRF	238A3095.1	162	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	486	8	BRUCE AVE	2021	
3940	Marshall Street WRF	249A3115.1	35	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	104	8	NARCISSUS AVE	2021	6/1/1963
3941	Marshall Street WRF	249A4045.1	24	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	72	8			6/1/1963
3942	Marshall Street WRF	249A4060.1	206	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	618	8	BOHENIA CIR S	2021	6/1/1963
3943	Marshall Street WRF	267A3050.1	362	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,085	8			
3944	Marshall Street WRF	314A4050.1	288	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	864	8			
3945	Marshall Street WRF	270A2035.1	399	No	4	3	4x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,197	8			
3946	Marshall Street WRF	269A1025.1	465	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,395	8			
3947	Marshall Street WRF	259B7065.1	15	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	46	8	VENETIAN DR	2022	
3948	Marshall Street WRF	260A1060.1	184	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	552	8	CALUMET ST	2022	
3949	Marshall Street WRF	259B8050.1	72	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	215	8	SUNSET DR	2022	
3950	Marshall Street WRF	277B8015.1	151	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	454	8	ALDEN AVE	2018	
3951	Marshall Street WRF	287A2075.1	84	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	253	8	FRANKLIN ST	2021	
3952	Marshall Street WRF	286B8185.1	131	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	392	8			
3953	Marshall Street WRF	286B8120.1	89	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	267	8			
3954	Marshall Street WRF	286B8055.1	211	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	632	8	PIERCE ST	2021	
3955	Marshall Street WRF	295B7075.1	65	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	195	8			
3956	Marshall Street WRF	286B6175.1	267	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	801	8			
3957	Marshall Street WRF	258A3100.1	378	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,135	8			6/1/1963
3958	Marshall Street WRF	258B6035.1	34	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	102	8			6/1/1965
3959	Marshall Street WRF	286A4010.1	105	No	5	4	5x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	316	8	PIERCE ST	2021	
3960	Marshall Street WRF	287A4075.1	294	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	883	8			6/1/1961
3961	Marshall Street WRF	260A2035.1	215	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	645	8	APACHE TRL	2022	
3962	Marshall Street WRF	269A1040.1	48	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	143	8			
3963	Marshall Street WRF	278A2055.1	162	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	487	8	PLAZA ST	2018	
3964	Marshall Street WRF	270A1120.1	303	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	908	8			
3965	Marshall Street WRF	279A2170.1	149	No	5	3	5x3	CCTV Short Term	CCTV Short Term	LIN		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	446	8	HILLCREST DR	2020	
3966	Marshall Street WRF	287B7115.1	78	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	235	8			
3967	Marshall Street WRF	269B8120.1	202	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	605	8			
3968	Marshall Street WRF	269B6150.1	329	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	987	8			
3969	Marshall Street WRF	269B6125.1	327	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	981	8			
3970	Marshall Street WRF	271A1010.1	145	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	436	8			
3971	Marshall Street WRF	279A4120.1	91	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	274	8			
3972	Marshall Street WRF	279B5005.1	75	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	226	8			6/1/1968
3973	Marshall Street WRF	279A4065.1	233	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	700	8			
3974	Marshall Street WRF	270A1135.1	219	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	656	8			
3975	Marshall Street WRF	279A1060.1	357	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,071	8	MAPLE ST	2020	
3976	Marshall Street WRF	269A1075.1	90	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	269	8			
3977	Marshall Street WRF	287B7090.1	113	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	339	8			
3978	Marshall Street WRF	249A3080.1	347	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,040	8	BRUCE AVE	2021	6/1/1963
3979	Marshall Street WRF	285B5040.1	196	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	587	8			
3980	Marshall Street WRF	268B7090.1	242	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	725	8			
3981	Marshall Street WRF	277B7145.1	78	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	234	8			
3982	Marshall Street WRF	277B7060.1	45	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	134	8			
3983	Marshall Street WRF	278A4045.1	273	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	819	8	N MADISON AVE	2018	
3984	Marshall Street WRF	269A1015.1	118	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	353	8			
3985	Marshall Street WRF	251B8025.1	59	No	5	3	5x3	CCTV Short Term	CCTV Short Term	LIN		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	177	8	KINGS HWY	2019	6/1/1965
3986	Marshall Street WRF	261A1010.1	25	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	76	8			6/1/1962
3987	Marshall Street WRF	288A1090.1	27	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	81	8			
3988	Marshall Street WRF	270B6085.1	263	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	789	8	MACRAE AVE	2018	6/1/1968
3989	Marshall Street WRF	270B6601.1	163	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	488	8	MACRAE AVE	2018	6/1/1968
3990	Marshall Street WRF	270B6015.1	295	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	886	8	LONG ST	2018	
3991	Marshall Street WRF	286B5090.1	240	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	721	8	S OSCEOLA AVE	2021	
3992	Marshall Street WRF	278B5065.1	39	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	116	8			
3993	Marshall Street WRF	287B6205.1	279	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	836	8			
3994	Marshall Street WRF	279A3090.1	497	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,491	8			
3995	Marshall Street WRF	261A4140.1	262	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	785	8			
3996	Marshall Street WRF	270A1030.1	210	No	5	3	5x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	629	8			
3997	Marshall Street WRF	270A4100.1	468	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,404	8	LEVERN ST	2018	
3998	Marshall Street WRF	253A2090.1	361	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,083	8			6/1/1961
3999	Marshall Street WRF	279B6110.1	205	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	614	8			6/1/1963
4000	Marshall Street WRF	260A2115.1	233	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	699	8	OSAGE ST	2022	
4001	Marshall Street WRF	288A3030.1	238	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	714	8	GROVE ST	2020	
4002	Marshall Street WRF	269A1065.1	220	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	659	8			
4003	Marshall Street WRF	269A4115.1	214	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	641	8			
4004	Marshall Street WRF	322A1010.1	44	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	131	8			
4005	Marshall Street WRF	249A3010.1	301	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	903	8	NARCISSUS AVE	2021	6/1/1963
4006	Marshall Street WRF	249A3035.1	335	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,006	8	MANDALAY AVE	2021	6/1/1963
4007	Marshall Street WRF	258A3065.1	195	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	585	8			6/1/1963
4008	Marshall Street WRF	258A1005.1	281	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	842	8	MANDALAY AVE	2021	6/1/1963
4009	Marshall Street WRF	277A1005.1	244	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	733	8			
4010	Marshall Street WRF	277A1025.1	290	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	870	8			
4011	Marshall Street WRF	260A1065.1	261	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	782	8	CALUMET ST	2022	
4012	Marshall Street WRF	278A2090.1	121	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	362	8	HART ST	2018	
4013	Marshall Street WRF	286B8165.1	156	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	467	8			
4014	Marshall Street WRF	286B5075.1	176	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	529	8			
4015	Marshall Street WRF	269A3065.1	68	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	205	8			
4016	Marshall Street WRF	269A3070.1	56	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	168	8			
4017	Marshall Street WRF	260A2065.1	72	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	217	8	APACHE TRL	2022	
4018	Marshall Street WRF	287A2060.1	272	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	816	8			6/1/1965
4019	Marshall Street WRF	269A1010.1	338	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,013	8			
4020	Marshall Street WRF	279A2070.1	528	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,584	8	FOREST RD	2020	
4021	Marshall Street WRF	288A1100.1	379	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,137	8			
4022	Marshall Street WRF	287B7160.1	263	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	789	8			
4023	Marshall Street WRF	288A2040.1	264	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	791	8			
4024	Marshall Street WRF	288A2075.1	83	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	249	8			
4025	Marshall Street WRF	269B8085.1	364	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,093	8			
4026	Marshall Street WRF	287B8115.1	35	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	105	8			
4027	Marshall Street WRF	278B5015.1	103	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	308	8			
4028	Marshall Street WRF	252A2085.1	188	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	563	8			6/1/1965
4029	Marshall Street WRF	252A2055.1	226	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	677	8	FLORA RD	2019	6/1/1965
4030	Marshall Street WRF	252A4175.1	313	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	940	8	N HIGHLAND AVE	2019	6/1/1965
4031	Marshall Street WRF	261A4130.1	89	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	267	8			
4032	Marshall Street WRF	279A4015.1	94	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	281	8			
4033	Marshall Street WRF	279A1050.1	328	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	985	8			
4034	Marshall Street WRF	279A2130.1	64	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	191	8	CRESTVIEW ST	2020	
4035	Marshall Street WRF	252A4130.1	338	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,014	8	N HIGHLAND AVE	2019	6/1/1965
4036	Marshall Street WRF	261B8120.1	106	No	5	2	5x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	317	8	ARDEN AVE	2018	6/1/1959
4037	Marshall Street WRF	271A1005.1	184	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	552	8			
4038	Marshall Street WRF	278A2005.1	97	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	291	8	MAPLE ST	2018	
4039	Marshall Street WRF	286B7200.1	285	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	855	8	PARK ST	2021	
4040	Marshall Street WRF	260A2040.1	240	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	720	8	NOKOMIS ST	2022	
4041	Marshall Street WRF	238A2026.1	64	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	191	8	MANDALAY AVE	2021	

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
4042	Marshall Street WRF	249A3075.1	409	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,228	8	VERBENA ST	2021	6/1/1963
4043	Marshall Street WRF	288B8100.1	34	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	102	8			
4044	Marshall Street WRF	286B8040.1	267	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	801	8	PIERCE ST	2021	
4045	Marshall Street WRF	287A2025.1	327	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	980	8	PIERCE ST	2021	
4046	Marshall Street WRF	269A3035.1	336	No	4	3	4x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,008	8			
4047	Marshall Street WRF	269A3010.1	176	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	529	8			
4048	Marshall Street WRF	269A4150.2	372	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,115	8			
4049	Marshall Street WRF	279A2115.1	100	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	299	8	CRESTVIEW ST	2020	
4050	Marshall Street WRF	287B7125.1	45	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	135	8			
4051	Marshall Street WRF	288A1075.1	121	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	362	8			
4052	Marshall Street WRF	288A1110.1	164	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	492	8			
4053	Marshall Street WRF	278B5020.1	192	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	576	8			
4054	Marshall Street WRF	306B5025.1	108	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	324	8			
4055	Marshall Street WRF	287B8030.1	115	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	346	8			
4056	Marshall Street WRF	270A4070.1	26	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	79	8	FLAGLER DR	2018	
4057	Marshall Street WRF	279A4025.1	160	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	479	8			
4058	Marshall Street WRF	279B5070.1	112	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	335	8			6/1/1965
4059	Marshall Street WRF	279B5015.1	22	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	66	8			
4060	Marshall Street WRF	269A3060.1	64	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	192	8			
4061	Marshall Street WRF	269A3040.1	82	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	245	8			
4062	Marshall Street WRF	286B8205.2	68	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	205	8			
4063	Marshall Street WRF	286B8095.1	197	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	591	8			
4064	Marshall Street WRF	286B8110.1	236	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	708	8	FRANKLIN ST	2021	
4065	Marshall Street WRF	295B7070.1	54	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	162	8			
4066	Marshall Street WRF	278A4095.1	255	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	766	8	N MADISON AVE	2018	
4067	Marshall Street WRF	306A4020.1	16	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	49	8			
4068	Marshall Street WRF	251A1100.1	124	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	373	8	GRANADA ST	2023	6/1/1961
4069	Marshall Street WRF	269A1760.1	229	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	687	8			
4070	Marshall Street WRF	296A2075.1	199	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	598	8			
4071	Marshall Street WRF	287A3005.1	89	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	267	8			
4072	Marshall Street WRF	269B8055.2	33	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	98	8			
4073	Marshall Street WRF	279A2010.1	315	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	946	8	ORANGEVIEW AVE	2020	
4074	Marshall Street WRF	279A2005.1	375	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,125	8	HILLCREST DR	2020	
4075	Marshall Street WRF	279A2180.1	160	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	480	8	ORANGEVIEW AVE	2020	
4076	Marshall Street WRF	287B7010.1	198	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	594	8	N HILLCREST AVE	2020	6/1/1967
4077	Marshall Street WRF	288A2035.1	266	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	797	8			
4078	Marshall Street WRF	269B6055.1	18	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	54	8			
4079	Marshall Street WRF	278B5040.1	253	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	758	8			
4080	Marshall Street WRF	314A4140.1	23	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	69	8			
4081	Marshall Street WRF	286B6005.1	181	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	543	8			
4082	Marshall Street WRF	258A3105.1	171	No	5	3	5x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	513	8			6/1/1963
4083	Marshall Street WRF	252A4085.1	124	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	371	8			
4084	Marshall Street WRF	270A2075.1	351	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,053	8			
4085	Marshall Street WRF	288A3055.1	305	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	915	8	LAURA ST	2020	
4086	Marshall Street WRF	261A4100.1	202	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	606	8			
4087	Marshall Street WRF	288A2111.1	50	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	151	8	DE LEON ST	2020	
4088	Marshall Street WRF	270A4160.2	28	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	84	8			
4089	Marshall Street WRF	268B7040.1	55	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	164	8	MARSHALL ST	2022	
4090	Marshall Street WRF	268B8050.1	227	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	682	8	ENGMAN ST	2022	
4091	Marshall Street WRF	277B7105.1	262	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	786	8			
4092	Marshall Street WRF	249A3031.1	126	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	378	8	BRUCE AVE	2021	6/1/1961
4093	Marshall Street WRF	313B7060.1	36	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	107	8			
4094	Marshall Street WRF	279A2015.1	290	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	870	8	HILLTOP AVE	2020	
4095	Marshall Street WRF	259B7020.1	86	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	259	8	CALUMET ST	2022	6/1/1962
4096	Marshall Street WRF	260A2015.1	45	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	136	8	NOKOMIS ST	2022	
4097	Marshall Street WRF	278A2085.1	75	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	225	8	HART ST	2018	
4098	Marshall Street WRF	286B8025.1	22	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	67	8	PIERCE ST	2021	
4099	Marshall Street WRF	285B5046.1	26	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	79	8			
4100	Marshall Street WRF	287B6015.1	34	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	101	8			
4101	Marshall Street WRF	270A3050.1	124	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	373	8	FLAGLER DR	2018	
4102	Marshall Street WRF	261B6100.1	150	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	449	8	LOGAN ST	2018	6/1/1958
4103	Marshall Street WRF	279B5030.1	390	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,171	8			6/1/1965
4104	Marshall Street WRF	270A4160.1	32	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	95	8			
4105	Marshall Street WRF	258A3090.1	209	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	627	8	MANDALAY AVE	2021	6/1/1963
4106	Marshall Street WRF	258A4065.1	237	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	712	8			6/1/1963
4107	Marshall Street WRF	277A1020.1	356	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,067	8			
4108	Marshall Street WRF	277B7015.1	152	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	457	8			
4109	Marshall Street WRF	286B8030.1	312	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	936	8	PIERCE ST	2021	
4110	Marshall Street WRF	295B7040.1	265	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	795	8			
4111	Marshall Street WRF	305B8045.1	329	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	986	8			
4112	Marshall Street WRF	314A1020.1	116	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	349	8			
4113	Marshall Street WRF	295B7045.1	254	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	762	8			
4114	Marshall Street WRF	314B6025.1	104	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	312	8			
4115	Marshall Street WRF	260A1070.1	323	No	4	3	4x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	970	8	APACHE TRL	2022	
4116	Marshall Street WRF	287A3045.1	267	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	800	8	GROVE ST	2021	
4117	Marshall Street WRF	306A1075.1	390	No	5	3	5x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,169	8			2/3/2008
4118	Marshall Street WRF	260A2080.1	272	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	816	8			
4119	Marshall Street WRF	260B8015.1	403	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,210	8			
4120	Marshall Street WRF	269B8065.1	442	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,326	8			
4121	Marshall Street WRF	287B7135.1	267	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	801	8			
4122	Marshall Street WRF	269B8125.1	39	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	117	8			6/1/1965
4123	Marshall Street WRF	287B5080.1	196	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	588	8	GROVE ST	2021	
4124	Marshall Street WRF	287B6170.1	256	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	768	8			
4125	Marshall Street WRF	296B5005.1	46	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	139	8			
4126	Marshall Street WRF	270A3055.1	361	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,084	8	WOOD AVE	2018	
4127	Marshall Street WRF	279B5075.1	94	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	281	8			6/1/1965
4128	Marshall Street WRF	279B6020.1	351	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,052	8			
4129	Marshall Street WRF	270A3005.1	58	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	173	8			
4130	Marshall Street WRF	261A4170.1	155	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	465	8			
4131	Marshall Street WRF	270B6070.1	237	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	711	8	CASLER AVE	2018	6/1/1965
4132	Marshall Street WRF	258B6030.1	17	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	50	8			6/1/1965
4133	Marshall Street WRF	286B6030.1	43	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	129	8			
4134	Marshall Street WRF	279B5010.1	160	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	481	8	CASLER AVE	2018	6/1/1968
4135	Marshall Street WRF	286B7090.1	90	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	270	8	LAURA ST	2021	
4136	Marshall Street WRF	295B7105.1	168	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	503	8			
4137	Marshall Street WRF	286B8205.1	220	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	661	8			
4138	Marshall Street WRF	305B7080.1	364	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,091	8			
4139	Marshall Street WRF	286B6105.1	190	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	570	8	S OSCEOLA AVE	2021	
4140	Marshall Street WRF	260A3095.1	94	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	281	8			
4141	Marshall Street WRF	313B8085.1	12	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	36	8			6/1/1964
4142	Marshall Street WRF	249A3015.1	297	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	892	8	BAY ESPLANADE	2021	6/1/1963
4143	Marshall Street WRF	285A3105.1	33	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	99	8			
4144	Marshall Street WRF	249A3050.1	230	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	690	8	GARDENIA ST	2021	6/1/1963
4145	Marshall Street WRF	249A2015.1	175	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	525	8	BOHENIA CIR S	2021	6/1/1963
4146	Marshall Street WRF	294A2015.1	107	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	322	8			
4147	Marshall Street WRF	286B5055.1	74	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	223	8			
4148	Marshall Street WRF	314A3065.1	128	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	383	8			6/1/1966
4149	Marshall Street WRF	286B7205.1	50	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	150	8	PARK ST	2021	
4150	Marshall Street WRF	286B6170.1	45	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	136	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
4151	Marshall Street WRF	268B7045.1	135	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	405	8	SUNSET DR	2022	
4152	Marshall Street WRF	295B8010.1	75	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	226	8			
4153	Marshall Street WRF	260A4050.1	126	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	378	8			
4154	Marshall Street WRF	278A4090.1	258	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	773	8	N WASHINGTON AVE	2018	
4155	Marshall Street WRF	260A2100.1	188	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	565	8	APACHE TRL	2022	
4156	Marshall Street WRF	269A1090.1	91	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	272	8			
4157	Marshall Street WRF	287A2080.1	268	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	804	8			
4158	Marshall Street WRF	279A2185.1	246	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	738	8	N SAN REMO AVE	2020	6/1/1965
4159	Marshall Street WRF	251B8005.1	180	No	5	3	5x3	CCTV Short Term	CCTV Short Term	LIN		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	540	8	KINGS HWY	2019	6/1/1965
4160	Marshall Street WRF	251B7175.1	183	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	549	8	WOODLAWN TER	2019	6/1/1965
4161	Marshall Street WRF	279A2100.1	336	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,008	8	FOREST RD	2020	
4162	Marshall Street WRF	260B8010.1	449	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,347	8			
4163	Marshall Street WRF	269B5110.1	309	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	926	8			
4164	Marshall Street WRF	278B5070.1	132	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	395	8			
4165	Marshall Street WRF	261A4090.1	131	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	394	8			
4166	Marshall Street WRF	252A4125.1	24	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	72	8	N HIGHLAND AVE	2019	6/1/1965
4167	Marshall Street WRF	306B7005.1	35	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	105	8			
4168	Marshall Street WRF	270A3025.1	358	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,074	8	WOOD AVE	2018	
4169	Marshall Street WRF	270B5020.1	396	No	5	2	5x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,189	8	RIDGE AVE	2018	
4170	Marshall Street WRF	279A4140.1	411	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,233	8			
4171	Marshall Street WRF	279B5020.1	204	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	613	8			
4172	Marshall Street WRF	279B5040.1	124	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	371	8			6/1/1965
4173	Marshall Street WRF	252A4160.1	156	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	469	8			6/1/1967
4174	Marshall Street WRF	279A2125.1	272	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	816	8	CRESTVIEW ST	2020	
4175	Marshall Street WRF	288A2025.1	112	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	337	8	PIERCE ST	2020	
4176	Marshall Street WRF	279A4030.1	220	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	660	8			
4177	Marshall Street WRF	270B8075.1	263	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	788	8	N SATURN AVE	2018	6/1/1961
4178	Marshall Street WRF	270B8065.1	276	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	829	8	N SATURN AVE	2018	6/1/1961
4179	Marshall Street WRF	270B6050.1	275	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	826	8	CASLER AVE	2018	6/1/1965
4180	Marshall Street WRF	279B6030.1	381	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,144	8			6/1/1963
4181	Marshall Street WRF	279B6055.1	231	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	694	8			6/1/1963
4182	Marshall Street WRF	279B6105.1	42	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	126	8			6/1/1963
4183	Marshall Street WRF	242A2060.1	261	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	782	8			6/1/1972
4184	Marshall Street WRF	287B6195.1	576	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,727	8			
4185	Marshall Street WRF	259B7040.1	119	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	358	8	VENETIAN POINT DR	2022	
4186	Marshall Street WRF	305B7005.1	323	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	968	8			
4187	Marshall Street WRF	295B8075.1	438	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,313	8			
4188	Marshall Street WRF	295B7085.1	316	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	947	8	TURNER ST	2020	
4189	Marshall Street WRF	286B5080.1	111	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	334	8			
4190	Marshall Street WRF	286B6140.1	216	No	4	3	4x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	648	8			
4191	Marshall Street WRF	296A3135.1	41	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	123	8			
4192	Marshall Street WRF	306A2010.1	102	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	305	8			
4193	Marshall Street WRF	261A1015.1	33	No	4	3	4x3	CCTV Short Term	CCTV Short Term	DIP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	98	8			6/1/1962
4194	Marshall Street WRF	269B8055.1	137	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	410	8			
4195	Marshall Street WRF	288A1130.1	266	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	799	8	PARK ST	2020	
4196	Marshall Street WRF	270B5035.1	368	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,104	8	RIDGE AVE	2018	
4197	Marshall Street WRF	279B6100.1	169	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	508	8			6/1/1963
4198	Marshall Street WRF	279A2035.1	62	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	187	8	MAPLE ST	2020	
4199	Marshall Street WRF	279A2190.1	168	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	504	8	MARIVA AVE	2020	6/1/1965
4200	Marshall Street WRF	278B6095.1	542	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,626	8	N JEFFERSON AVE	2018	
4201	Marshall Street WRF	278B6100.1	316	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	948	8	N JEFFERSON AVE	2018	
4202	Marshall Street WRF	279B5050.1	50	No	4	1	4x1	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	151	8			
4203	Marshall Street WRF	279A3050.1	406	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,219	8			
4204	Marshall Street WRF	252A2140.1	158	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	475	8			6/1/1965
4205	Marshall Street WRF	252A2125.1	4	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	11	8			6/1/1962
4206	Marshall Street WRF	252A2120.1	152	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	457	8			6/1/1962
4207	Marshall Street WRF	252A2130.1	227	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	680	8			6/1/1962
4208	Marshall Street WRF	251A1075.1	185	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	556	8	GRANADA ST	2023	6/1/1961
4209	Marshall Street WRF	288A3005.1	139	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	416	8			
4210	Marshall Street WRF	279A3105.1	460	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,381	8			
4211	Marshall Street WRF	253A2005.1	388	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,165	8			6/1/1967
4212	Marshall Street WRF	271A1020.1	73	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	218	8			
4213	Marshall Street WRF	287B7095.1	24	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	72	8			
4214	Marshall Street WRF	269A4105.1	215	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	644	8			
4215	Marshall Street WRF	313B8070.1	323	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	968	8			6/1/1964
4216	Marshall Street WRF	313B8080.1	116	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	349	8			6/1/1964
4217	Marshall Street WRF	313B8075.1	113	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	338	8			6/1/1964
4218	Marshall Street WRF	286B5070.1	111	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	334	8			
4219	Marshall Street WRF	249A3120.1	107	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	321	8	BAY ESPLANADE	2021	6/1/1963
4220	Marshall Street WRF	249A4105.1	444	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,331	8	BRUCE AVE	2021	6/1/1963
4221	Marshall Street WRF	314B5015.1	73	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	219	8			6/1/1966
4222	Marshall Street WRF	270A2030.1	38	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	114	8			
4223	Marshall Street WRF	279A2135.1	201	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	604	8	ORANGEVIEW AVE	2020	6/1/1965
4224	Marshall Street WRF	287B7165.1	278	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	834	8			6/1/1968
4225	Marshall Street WRF	287B7160.2	272	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	817	8			6/1/1968
4226	Marshall Street WRF	269B8070.1	119	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	358	8			
4227	Marshall Street WRF	270B8085.1	260	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	780	8	N SATURN AVE	2018	6/1/1961
4228	Marshall Street WRF	252B5155.1	356	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,068	8			6/1/1970
4229	Marshall Street WRF	242A2045.1	300	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	900	8			6/1/1972
4230	Marshall Street WRF	271A1015.1	130	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	390	8			
4231	Marshall Street WRF	287A1035.1	137	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	411	8	GROVE ST	2021	
4232	Marshall Street WRF	269A4090.1	313	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	939	8			
4233	Marshall Street WRF	278A1140.1	145	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	434	8			
4234	Marshall Street WRF	278A1045.1	152	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	455	8			
4235	Marshall Street WRF	278A1135.1	78	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	234	8			
4236	Marshall Street WRF	278B6100.2	60	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	179	8	N LINCOLN AVE	2018	
4237	Marshall Street WRF	260B8085.1	250	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	751	8			
4238	Marshall Street WRF	261A1040.1	301	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	902	8			6/1/1962
4239	Marshall Street WRF	261A1110.1	276	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	828	8			6/1/1962
4240	Marshall Street WRF	261A1055.1	339	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,018	8			6/1/1962
4241	Marshall Street WRF	261A1090.1	162	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	486	8			6/1/1962
4242	Marshall Street WRF	261A1080.1	341	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,022	8			6/1/1962
4243	Marshall Street WRF	261A1025.1	172	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	516	8			6/1/1962
4244	Marshall Street WRF	261A1030.1	45	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	135	8			6/1/1962
4245	Marshall Street WRF	261A1035.1	208	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	624	8			6/1/1962
4246	Marshall Street WRF	261A1060.1	357	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,071	8			6/1/1962
4247	Marshall Street WRF	261A1045.1	178	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	535	8			6/1/1962
4248	Marshall Street WRF	261A1085.1	236	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	707	8			6/1/1962
4249	Marshall Street WRF	261A1120.1	200	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	601	8			6/1/1963
4250	Marshall Street WRF	261A1102.1	258	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	773	8			6/1/1962
4251	Marshall Street WRF	261A1050.1	301	No	4	2	4x2	CCTV Short Term	CCTV Short Term	DIP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	902	8			6/1/1962
4252	Marshall Street WRF	261A1070.1	260	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	781	8			6/1/1962
4253	Marshall Street WRF	249A4090.1	319	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	957	8	LANTANA AVE	2021	6/1/1963
4254	Marshall Street WRF	258A4075.1	7	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	21	8			6/1/1963
4255	Marshall Street WRF	258A4015.1	229	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	687	8			6/1/1963
4256	Marshall Street WRF	267A3055.1	75	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	226	8			
4257	Marshall Street WRF	286A4005.1	251	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	753	8	PIERCE ST	2021	
4258	Marshall Street WRF	286B8045.1	38	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	114	8	PIERCE ST	2021	
4259	Marshall Street WRF	286B8125.1	84	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	251	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
4260	Marshall Street WRF	296A3060.1	92	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	277	8			
4261	Marshall Street WRF	287A3085.2	323	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	970	8			
4262	Marshall Street WRF	279A2165.1	932	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	2,796	8	FOREST RD	2020	
4263	Marshall Street WRF	269B8130.1	56	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	168	8			6/1/1965
4264	Marshall Street WRF	278B7060.1	303	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	908	8			
4265	Marshall Street WRF	252A4090.1	50	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	150	8			
4266	Marshall Street WRF	261A4175.1	305	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	916	8			
4267	Marshall Street WRF	270A4155.1	306	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	918	8			
4268	Marshall Street WRF	279B5085.1	125	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	374	8			6/1/1965
4269	Marshall Street WRF	252A4180.1	141	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	423	8	N HIGHLAND AVE	2019	6/1/1967
4270	Marshall Street WRF	261B8115.1	135	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	404	8	MURRAY AVE	2018	6/1/1959
4271	Marshall Street WRF	270B6020.1	172	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	517	8	CASLER AVE	2018	6/1/1965
4272	Marshall Street WRF	260A3015.1	133	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	398	8	SPRINGTIME AVE	2023	
4273	Marshall Street WRF	314A4110.1	335	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,006	8			
4274	Marshall Street WRF	322A1015.1	80	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	240	8			
4275	Marshall Street WRF	321B7030.1	60	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	181	8			
4276	Marshall Street WRF	249A3110.1	268	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	804	8	LANTANA AVE	2021	6/1/1963
4277	Marshall Street WRF	249A3100.1	274	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	822	8	BRUCE AVE	2021	6/1/1963
4278	Marshall Street WRF	259B8080.1	174	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	521	8	SUNBURST CT	2022	
4279	Marshall Street WRF	277B7055.1	287	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	860	8			
4280	Marshall Street WRF	277B8135.1	274	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	823	8			
4281	Marshall Street WRF	286B8190.1	32	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	95	8			
4282	Marshall Street WRF	249A4145.1	288	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	863	8	MANDALAY AVE	2021	6/1/1963
4283	Marshall Street WRF	305B5185.1	242	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	725	8			
4284	Marshall Street WRF	260A1090.1	113	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	338	8	NOKOMIS ST	2022	
4285	Marshall Street WRF	286B8115.1	186	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	559	8	S GARDEN AVE	2021	
4286	Marshall Street WRF	269A1005.1	104	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	312	8			
4287	Marshall Street WRF	249A3030.1	29	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	87	8	BRUCE AVE	2021	6/1/1961
4288	Marshall Street WRF	261B8075.1	103	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	310	8			6/1/1963
4289	Marshall Street WRF	261B8060.1	175	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	524	8			6/1/1963
4290	Marshall Street WRF	261B8090.1	112	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	335	8	FLAGLER DR	2018	6/1/1963
4291	Marshall Street WRF	261B8065.1	291	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	874	8			6/1/1963
4292	Marshall Street WRF	261B6120.1	269	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	806	8	NELSON AVE	2018	6/1/1959
4293	Marshall Street WRF	261B8055.1	177	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	532	8			6/1/1963
4294	Marshall Street WRF	251A2075.1	52	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	156	8			6/1/1964
4295	Marshall Street WRF	251A2065.1	62	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	187	8			6/1/1964
4296	Marshall Street WRF	251A2100.1	46	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	138	8			6/1/1964
4297	Marshall Street WRF	249A3032.1	145	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	434	8	ELDORADO LN	2021	6/1/1961
4298	Marshall Street WRF	295B7065.1	168	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	503	8	TURNER ST	2020	
4299	Marshall Street WRF	286B6180.1	259	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	777	8	PALM AVE	2020	
4300	Marshall Street WRF	286B6180.1	170	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	509	8			
4301	Marshall Street WRF	296B5175.1	330	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	989	8			
4302	Marshall Street WRF	260A2060.1	337	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,012	8	IROQUOIS ST	2022	
4303	Marshall Street WRF	269A1045.1	428	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,283	8			
4304	Marshall Street WRF	270A1105.1	455	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,364	8			
4305	Marshall Street WRF	279A2020.1	204	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	612	8	MAPLE ST	2020	
4306	Marshall Street WRF	252A2080.1	387	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,162	8	BYRAM DR	2019	6/1/1962
4307	Marshall Street WRF	269B7055.1	19	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	58	8			
4308	Marshall Street WRF	287B8010.1	41	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	124	8			6/1/1968
4309	Marshall Street WRF	269B5015.1	258	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	774	8			
4310	Marshall Street WRF	252A4080.1	219	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	656	8			
4311	Marshall Street WRF	261A4105.1	300	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	899	8			
4312	Marshall Street WRF	270B5030.1	322	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	965	8	SCOTT ST	2018	
4313	Marshall Street WRF	279A4045.1	14	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	41	8			
4314	Marshall Street WRF	279B6040.1	305	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	916	8			
4315	Marshall Street WRF	252A4165.1	144	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	431	8			6/1/1967
4316	Marshall Street WRF	252B7050.1	259	No	4	1	4x1	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	776	8			6/1/1962
4317	Marshall Street WRF	252B7095.1	363	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,090	8			6/1/1962
4318	Marshall Street WRF	260A1080.1	52	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	156	8			
4319	Marshall Street WRF	258A3050.1	134	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	403	8	MANDALAY AVE	2021	6/1/1963
4320	Marshall Street WRF	249A4150.1	234	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	701	8	BRUCE AVE	2021	6/1/1963
4321	Marshall Street WRF	286B6010.1	16	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	48	8	PIERCE ST	2021	
4322	Marshall Street WRF	269B6155.1	364	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,091	8			
4323	Marshall Street WRF	259B7055.1	299	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	896	8	VENETIAN DR	2022	
4324	Marshall Street WRF	260A4055.1	197	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	590	8			
4325	Marshall Street WRF	269A3150.1	365	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,096	8			
4326	Marshall Street WRF	287A3030.1	181	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	542	8	NE CLEVELAND ST	2021	
4327	Marshall Street WRF	287A2135.1	286	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	858	8			6/1/1965
4328	Marshall Street WRF	260B8090.1	298	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	893	8			
4329	Marshall Street WRF	270B6040.1	181	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	542	8	WEBB DR	2018	6/1/1968
4330	Marshall Street WRF	261A1095.1	306	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	919	8			6/1/1962
4331	Marshall Street WRF	261A4095.1	280	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	839	8			
4332	Marshall Street WRF	270A1130.1	309	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	928	8			
4333	Marshall Street WRF	270A4145.1	105	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	314	8			
4334	Marshall Street WRF	279A1045.1	141	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	424	8			
4335	Marshall Street WRF	270B8035.1	205	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	614	8	LONG ST	2018	
4336	Marshall Street WRF	270B6030.1	250	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	750	8	CASLER AVE	2018	6/1/1968
4337	Marshall Street WRF	271A1030.1	87	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	260	8			
4338	Marshall Street WRF	238A3065.1	23	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	68	8	BRUCE AVE	2021	
4339	Marshall Street WRF	286B7130.1	294	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	882	8	LAURA ST	2021	
4340	Marshall Street WRF	277B7095.1	172	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	516	8			
4341	Marshall Street WRF	277B5020.1	145	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	436	8			
4342	Marshall Street WRF	277B7110.1	172	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	516	8			
4343	Marshall Street WRF	277B8050.1	129	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	388	8	HART ST	2018	
4344	Marshall Street WRF	277B6010.1	91	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	272	8	N OSCEOLA AVE	2018	
4345	Marshall Street WRF	277B6035.1	326	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	978	8	N OSCEOLA AVE	2018	
4346	Marshall Street WRF	277B8040.1	386	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,157	8	NA	2018	
4347	Marshall Street WRF	261A1101.1	162	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	486	8			6/1/1962
4348	Marshall Street WRF	261A1105.1	25	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	74	8			6/1/1962
4349	Marshall Street WRF	261A1100.1	100	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	300	8			6/1/1962
4350	Marshall Street WRF	258B5049.1	295	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	884	8			6/1/1968
4351	Marshall Street WRF	306A4083.1	25	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	75	8			
4352	Marshall Street WRF	270A2065.1	294	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	881	8			
4353	Marshall Street WRF	270A3065.1	146	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	437	8			6/1/1962
4354	Marshall Street WRF	270A3070.1	129	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	387	8			6/1/1962
4355	Marshall Street WRF	269B8075.1	175	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	526	8			
4356	Marshall Street WRF	270A2060.1	400	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,200	8			
4357	Marshall Street WRF	269B5035.1	110	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	330	8			
4358	Marshall Street WRF	270A2070.1	357	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,071	8			
4359	Marshall Street WRF	269B8115.1	143	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	430	8			
4360	Marshall Street WRF	270A2095.1	404	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,212	8			
4361	Marshall Street WRF	270A2100.1	434	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,303	8			
4362	Marshall Street WRF	269B5010.1	281	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	843	8			
4363	Marshall Street WRF	269B5040.1	99	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	298	8			
4364	Marshall Street WRF	269B5045.1	124	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	373	8			
4365	Marshall Street WRF	269B5030.1	209	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	628	8			
4366	Marshall Street WRF	269B5055.1	56	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	167	8			
4367	Marshall Street WRF	269B5075.1	105	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	314	8			
4368	Marshall Street WRF	269B8110.1	91	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	274	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
4369	Marshall Street WRF	269B6145.1	293	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	878	8			
4370	Marshall Street WRF	269B8105.1	86	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	259	8			
4371	Marshall Street WRF	269B6060.1	247	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	742	8			
4372	Marshall Street WRF	269B6010.1	190	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	570	8			
4373	Marshall Street WRF	269B6012.1	92	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	275	8			
4374	Marshall Street WRF	269B6075.1	212	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	636	8			
4375	Marshall Street WRF	268B8085.1	202	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	606	8			
4376	Marshall Street WRF	267B8055.1	257	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	771	8			
4377	Marshall Street WRF	268A1025.1	384	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,152	8			
4378	Marshall Street WRF	268A2015.1	262	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	786	8			
4379	Marshall Street WRF	268A2035.1	334	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,002	8			
4380	Marshall Street WRF	267B8060.1	326	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	977	8			
4381	Marshall Street WRF	276A4025.1	351	No	4	3	4x3	CCTV Short Term	CCTV Short Term	FRP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,052	8			
4382	Marshall Street WRF	286B5025.1	226	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	677	8			
4383	Marshall Street WRF	286B5045.1	195	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	586	8			
4384	Marshall Street WRF	261B8080.1	229	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	688	8			6/1/1963
4385	Marshall Street WRF	261B8050.1	89	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	267	8			6/1/1963
4386	Marshall Street WRF	261B8070.1	147	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	441	8			6/1/1963
4387	Marshall Street WRF	261B8085.1	377	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,132	8			6/1/1963
4388	Marshall Street WRF	261B8105.1	190	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	569	8			6/1/1959
4389	Marshall Street WRF	261B8100.1	190	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	569	8			6/1/1959
4390	Marshall Street WRF	261B8125.1	156	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	469	8	ARDEN AVE	2018	6/1/1959
4391	Marshall Street WRF	261B8130.1	136	No	5	2	5x2	CCTV Short Term	CCTV Short Term	PVC		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	407	8	MURRAY AVE	2018	6/1/1959
4392	Marshall Street WRF	261B8095.1	278	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	834	8	FLAGLER DR	2018	6/1/1959
4393	Marshall Street WRF	261B8110.1	273	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	818	8	CHANDLER AVE	2018	6/1/1959
4394	Marshall Street WRF	261B6090.1	101	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	302	8			6/1/1959
4395	Marshall Street WRF	261B6110.1	101	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	302	8	LYNN AVE	2018	6/1/1959
4396	Marshall Street WRF	261B6115.1	296	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	887	8	SCOTT ST	2018	
4397	Marshall Street WRF	261B6085.1	121	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	363	8			6/1/1959
4398	Marshall Street WRF	279A4115.1	291	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	872	8			
4399	Marshall Street WRF	279A4110.1	132	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	396	8			
4400	Marshall Street WRF	279A4105.1	203	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	610	8			
4401	Marshall Street WRF	277B8090.2	173	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	518	8	JONES ST	2018	
4402	Marshall Street WRF	287B8180.1	171	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	512	8	KENWOOD AVE	2021	
4403	Marshall Street WRF	269B5090.1	109	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	326	8			11/23/2010
4404	Marshall Street WRF	287B8185.1	27	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	80	8	GROVE ST	2021	
4405	Marshall Street WRF	253A1055.1	422	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,266	8			6/1/1962
4406	Marshall Street WRF	295B4260.1	437	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,312	8			
4407	Marshall Street WRF	278A2096.1	135	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	405	8			
4408	Marshall Street WRF	253A2085.1	132	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	395	8			6/1/1961
4409	Marshall Street WRF	252B7060.1	411	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,232	8			6/1/1961
4410	Marshall Street WRF	252B7070.1	290	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	871	8			6/1/1963
4411	Marshall Street WRF	252B7120.1	367	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,101	8			6/1/1961
4412	Marshall Street WRF	252B7115.1	283	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	849	8			6/1/1961
4413	Marshall Street WRF	252B7045.1	256	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	769	8			6/1/1963
4414	Marshall Street WRF	252B7090.1	371	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,112	8			6/1/1963
4415	Marshall Street WRF	252A4055.1	148	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	444	8			
4416	Marshall Street WRF	252A2065.1	115	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	345	8	FLORA RD	2019	6/1/1965
4417	Marshall Street WRF	252A4110.1	69	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	207	8			6/1/1965
4418	Marshall Street WRF	252A4150.1	273	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	818	8			6/1/1965
4419	Marshall Street WRF	252A4105.1	243	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	728	8			6/1/1965
4420	Marshall Street WRF	252A2090.1	198	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	595	8			6/1/1965
4421	Marshall Street WRF	252A2105.1	129	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	387	8			6/1/1965
4422	Marshall Street WRF	252A4135.1	169	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	507	8	N HIGHLAND AVE	2019	6/1/1965
4423	Marshall Street WRF	261A1005.1	182	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	545	8			6/1/1962
4424	Marshall Street WRF	251A3130.1	349	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,047	8			6/1/1964
4425	Marshall Street WRF	251A3080.1	376	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,128	8	WILSON BLVD	2023	6/1/1969
4426	Marshall Street WRF	251A1105.1	149	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	447	8	CHARLES ST	2023	6/1/1964
4427	Marshall Street WRF	251A1110.1	222	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	667	8			6/1/1964
4428	Marshall Street WRF	260B8050.1	294	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	882	8			
4429	Marshall Street WRF	251A3135.1	276	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	828	8	BROADWAY	2023	6/1/1964
4430	Marshall Street WRF	251A3140.1	115	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	345	8	BROADWAY	2023	6/1/1964
4431	Marshall Street WRF	260B8020.1	289	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	868	8			
4432	Marshall Street WRF	260B8045.1	193	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	579	8			
4433	Marshall Street WRF	295B8120.1	153	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	459	8	TURNER ST	2020	
4434	Marshall Street WRF	251A7151.1	16	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	48	8			
4435	Marshall Street WRF	287B8175.1	304	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	912	8	GROVE ST	2021	
4436	Marshall Street WRF	260A1020.1	137	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	412	8			
4437	Marshall Street WRF	260B8030.1	255	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	766	8			
4438	Marshall Street WRF	260B8065.1	302	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	906	8			
4439	Marshall Street WRF	260B8070.1	305	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	915	8			
4440	Marshall Street WRF	270B5095.1	318	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	954	8	SHERWOOD ST	2018	
4441	Marshall Street WRF	270B5045.1	312	No	5	2	5x2	CCTV Short Term	CCTV Short Term	FRP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	937	8	SCOTT ST	2018	
4442	Marshall Street WRF	270B5055.1	98	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	293	8	SCOTT ST	2018	
4443	Marshall Street WRF	270B5090.1	335	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,005	8			
4444	Marshall Street WRF	270B5105.1	344	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,032	8	GENTRY ST	2018	
4445	Marshall Street WRF	270B5050.1	314	No	5	2	5x2	CCTV Short Term	CCTV Short Term	PVC		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	943	8	SCOTT ST	2018	
4446	Marshall Street WRF	270B5085.1	294	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	883	8			
4447	Marshall Street WRF	270B7080.1	316	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	948	8	SHERWOOD ST	2018	
4448	Marshall Street WRF	270B5065.1	312	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	935	8	RIDGE AVE	2018	
4449	Marshall Street WRF	270B6005.1	393	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,178	8	GENTRY ST	2018	
4450	Marshall Street WRF	270B7070.1	320	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	961	8			
4451	Marshall Street WRF	270B7065.1	299	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	896	8	SCOTT ST	2018	
4452	Marshall Street WRF	270B7075.1	392	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,176	8	SHERWOOD ST	2018	
4453	Marshall Street WRF	270B7120.1	396	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,189	8	SHERWOOD ST	2018	
4454	Marshall Street WRF	270B7020.1	314	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	943	8	SCOTT ST	2018	2/3/2008
4455	Marshall Street WRF	270B7115.1	282	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	845	8			6/1/1964
4456	Marshall Street WRF	270B7015.1	150	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	450	8	E LEO LN	2018	6/1/1971
4457	Marshall Street WRF	288A1025.1	276	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	828	8			
4458	Marshall Street WRF	288A2185.1	299	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	897	8			
4459	Marshall Street WRF	287A3055.1	158	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	474	8	NE CLEVELAND ST	2021	
4460	Marshall Street WRF	287B5115.1	160	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	480	8			
4461	Marshall Street WRF	287B5110.1	296	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	889	8			
4462	Marshall Street WRF	287B7180.1	140	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	420	8			
4463	Marshall Street WRF	287B7155.1	30	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	89	8			6/1/1968
4464	Marshall Street WRF	287B7170.1	220	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	659	8			6/1/1968
4465	Marshall Street WRF	296B5160.1	82	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	246	8			6/1/1965
4466	Marshall Street WRF	278A1070.2	94	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	281	8			
4467	Marshall Street WRF	260B8005.1	285	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	856	8			
4468	Marshall Street WRF	270B7095.1	255	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	765	8			6/1/1964
4469	Marshall Street WRF	270B7105.1	293	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	878	8			6/1/1964
4470	Marshall Street WRF	270B7110.1	173	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	518	8	AMBLE LN	2018	
4471	Marshall Street WRF	270B8050.1	294	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	883	8	LONG ST	2018	6/1/1961
4472	Marshall Street WRF	270B8010.1	139	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	417	8	N SATURN AVE	2018	6/1/1961
4473	Marshall Street WRF	270B8020.1	130	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	390	8	N SATURN AVE	2018	6/1/1961
4474	Marshall Street WRF	270B8030.1	380	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,139	8	LONG ST	2018	
4475	Marshall Street WRF	270B8040.1	244	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	733	8	LONG ST	2018	
4476	Marshall Street WRF	270B6080.1	105	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	315	8			6/1/1968
4477	Marshall Street WRF	270A1010.1	255	No	5	2	5x2	CCTV Short Term	CCTV Short Term	LIN		[GravityMain.COND_TT] >= (4) is Yes	N-Y	1	764	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
4478	Marshall Street WRF	270A1045.1	422	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,265	8			
4479	Marshall Street WRF	270A1050.1	446	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,337	8			
4480	Marshall Street WRF	270A1080.1	120	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	360	8			
4481	Marshall Street WRF	270A1060.1	49	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	148	8			
4482	Marshall Street WRF	270A1100.1	414	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,241	8			
4483	Marshall Street WRF	277B7065.1	194	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	582	8			
4484	Marshall Street WRF	268B8145.1	113	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	339	8			
4485	Marshall Street WRF	277B7115.1	235	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	704	8			
4486	Marshall Street WRF	277B6020.1	352	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,055	8			
4487	Marshall Street WRF	277B6040.1	197	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	592	8			
4488	Marshall Street WRF	314A3130.1	109	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	327	8			6/1/1966
4489	Marshall Street WRF	314A3060.1	194	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	583	8			6/1/1966
4490	Marshall Street WRF	269B8150.1	27	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	80	8			
4491	Marshall Street WRF	287B8170.1	231	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	692	8			
4492	Marshall Street WRF	285A1010.2	458	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,373	8			
4493	Marshall Street WRF	260A4075.1	217	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	650	8			
4494	Marshall Street WRF	260A4060.1	140	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	420	8			
4495	Marshall Street WRF	260A2085.1	226	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	678	8	IROQUOIS ST	2022	
4496	Marshall Street WRF	277B8160.1	582	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,747	8			
4497	Marshall Street WRF	277B8155.1	579	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,737	8			
4498	Marshall Street WRF	276A4095.1	22	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	66	8			
4499	Marshall Street WRF	276A1085.1	318	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	954	8			
4500	Marshall Street WRF	276A4005.1	298	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	895	8			
4501	Marshall Street WRF	267A2065.1	162	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	487	8			
4502	Marshall Street WRF	295B7120.1	390	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,169	8			
4503	Marshall Street WRF	295B7080.2	251	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	753	8			
4504	Marshall Street WRF	295B7050.1	469	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,408	8			
4505	Marshall Street WRF	295B5110.1	205	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	615	8	BAY AVE	2020	
4506	Marshall Street WRF	295B7035.1	121	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	364	8			
4507	Marshall Street WRF	295B7025.1	167	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	500	8			
4508	Marshall Street WRF	295B5030.1	181	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	544	8			
4509	Marshall Street WRF	295B8140.1	196	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	589	8			
4510	Marshall Street WRF	295B5010.1	261	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	783	8	BAY AVE	2020	
4511	Marshall Street WRF	260A3045.1	171	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	513	8			
4512	Marshall Street WRF	260A3065.1	379	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,138	8			
4513	Marshall Street WRF	260B8095.1	14	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	42	8			
4514	Marshall Street WRF	260B8100.1	75	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	225	8			
4515	Marshall Street WRF	260B8105.1	101	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	303	8			
4516	Marshall Street WRF	261A4085.1	91	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	273	8			
4517	Marshall Street WRF	261A4210.1	260	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	780	8			
4518	Marshall Street WRF	268B8175.1	220	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	660	8	SUNSET DR	2022	
4519	Marshall Street WRF	268B8170.1	296	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	888	8			
4520	Marshall Street WRF	277B8065.1	564	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,693	8	JONES ST	2018	
4521	Marshall Street WRF	286B5005.1	186	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	558	8			
4522	Marshall Street WRF	286B5050.1	146	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	437	8			
4523	Marshall Street WRF	286B7015.1	602	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,807	8	LAURA ST	2021	
4524	Marshall Street WRF	268B8125.1	191	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	573	8			
4525	Marshall Street WRF	268B8045.1	139	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	416	8			
4526	Marshall Street WRF	268B8060.1	140	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	420	8			
4527	Marshall Street WRF	268B8030.1	150	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	450	8			
4528	Marshall Street WRF	269A4165.1	85	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	256	8			
4529	Marshall Street WRF	269A4155.1	118	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	353	8			
4530	Marshall Street WRF	269A2090.1	170	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	511	8			
4531	Marshall Street WRF	269A2125.1	102	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	307	8			
4532	Marshall Street WRF	269A2200.1	65	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	196	8			
4533	Marshall Street WRF	269A4110.1	108	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	325	8			
4534	Marshall Street WRF	269A2100.1	361	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,082	8			
4535	Marshall Street WRF	269A4075.1	272	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	817	8			
4536	Marshall Street WRF	269A4095.1	105	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	315	8			
4537	Marshall Street WRF	270A4170.1	132	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	396	8			
4538	Marshall Street WRF	295B6085.1	55	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	165	8			
4539	Marshall Street WRF	267B7015.1	246	No	5	3	5x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	737	8			
4540	Marshall Street WRF	267B5035.1	232	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	695	8			6/1/1964
4541	Marshall Street WRF	267B7095.1	128	No	4	3	4x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	383	8			6/1/1964
4542	Marshall Street WRF	267B5010.1	365	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,094	8			6/1/1964
4543	Marshall Street WRF	267B5015.1	376	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,129	8			6/1/1964
4544	Marshall Street WRF	267B8085.1	212	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	635	8			
4545	Marshall Street WRF	267B5005.1	275	No	5	2	5x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	824	8			6/1/1964
4546	Marshall Street WRF	267B5020.1	347	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,041	8			6/1/1964
4547	Marshall Street WRF	267B5025.1	313	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	938	8			6/1/1964
4548	Marshall Street WRF	267B6155.1	53	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	159	8			
4549	Marshall Street WRF	267B6150.1	55	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	164	8			
4550	Marshall Street WRF	267B6150.2	27	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	81	8			
4551	Marshall Street WRF	288A4035.1	496	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,488	8			
4552	Marshall Street WRF	288A4030.1	225	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	675	8			
4553	Marshall Street WRF	267B8010.1	393	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,179	8			
4554	Marshall Street WRF	286B6076.1	331	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	992	8	PIERCE ST	2021	
4555	Marshall Street WRF	286B5095.1	86	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	259	8			
4556	Marshall Street WRF	286B7181.1	98	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	293	8			
4557	Marshall Street WRF	279A4145.1	373	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,118	8			
4558	Marshall Street WRF	286B7045.1	416	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,247	8	WATTERSON AVE	2021	
4559	Marshall Street WRF	286B7070.1	59	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	177	8	N GARDEN AVE	2021	
4560	Marshall Street WRF	286B7170.1	143	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	429	8	S GARDEN AVE	2021	
4561	Marshall Street WRF	286B7165.1	208	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	625	8	S GARDEN AVE	2021	
4562	Marshall Street WRF	286B7195.2	71	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	212	8	PARK ST	2021	
4563	Marshall Street WRF	286B7040.1	247	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	742	8	N GARDEN AVE	2021	
4564	Marshall Street WRF	286B7105.1	380	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,140	8	WATTERSON AVE	2021	
4565	Marshall Street WRF	277B8120.1	173	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	520	8	N GARDEN AVE	2021	
4566	Marshall Street WRF	286B7005.1	275	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	825	8	WATTERSON AVE	2021	
4567	Marshall Street WRF	277B8125.1	225	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	676	8			
4568	Marshall Street WRF	287B8190.1	118	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	354	8			
4569	Marshall Street WRF	288A4040.1	77	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	231	8			
4570	Marshall Street WRF	322A4170.1	128	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	385	8			
4571	Marshall Street WRF	295B7090.1	59	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	177	8			
4572	Marshall Street WRF	296A4255.1	408	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,223	8			
4573	Marshall Street WRF	242A2100.1	260	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	779	8			6/1/1970
4574	Marshall Street WRF	242A4140.1	25	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	75	8			6/1/1973
4575	Marshall Street WRF	306A4165.1	114	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	343	8			
4576	Marshall Street WRF	295B5055.1	230	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	689	8	TURNER ST	2020	
4577	Marshall Street WRF	295B8110.1	87	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	261	8	PALM AVE	2020	
4578	Marshall Street WRF	295B7055.1	287	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	862	8	PALM AVE	2020	
4579	Marshall Street WRF	295B6105.1	261	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	782	8			
4580	Marshall Street WRF	295B6100.1	45	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	136	8			
4581	Marshall Street WRF	252A4045.1	148	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	443	8	N HIGHLAND AVE	2019	
4582	Marshall Street WRF	252A2050.1	290	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	871	8	FLORA RD	2019	6/1/1965
4583	Marshall Street WRF	295B1000.1	205	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	614	8	OAK AVE	2020	
4584	Marshall Street WRF	295B5055.2	270	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	809	8	PALM AVE	2020	
4585	Marshall Street WRF	295B5060.2	351	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,053	8	OAK AVE	2020	
4586	Marshall Street WRF	295B5020.1	418	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,253	8	OAK AVE	2020	

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
4587	Marshall Street WRF	295B7135.1	233	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	699	8	HAMILTON CRES	2020	
4588	Marshall Street WRF	295B7110.1	119	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	358	8			
4589	Marshall Street WRF	295B7130.1	116	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	348	8	HAMILTON CRES	2020	
4590	Marshall Street WRF	295B8105.1	181	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	542	8	OAK AVE	2020	
4591	Marshall Street WRF	267B8130.1	34	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	103	8			
4592	Marshall Street WRF	270A4175.1	115	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	345	8			
4593	Marshall Street WRF	287A2040.2	65	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	195	8	PARK ST	2021	
4594	Marshall Street WRF	287A2120.1	72	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	217	8			
4595	Marshall Street WRF	286B8140.1	145	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	434	8			
4596	Marshall Street WRF	295B7080.1	120	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	360	8			
4597	Marshall Street WRF	295B9990.1	194	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	583	8			
4598	Marshall Street WRF	270A1090.2	8	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	23	8			6/1/1961
4599	Marshall Street WRF	287A1020.1	27	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	81	8	GROVE ST	2021	
4600	Marshall Street WRF	295B1005.1	397	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,192	8			
4601	Marshall Street WRF	305B8095	109	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	328	8			
4602	Marshall Street WRF	305B8095.1	280	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	841	8			
4603	Marshall Street WRF	277B1010.1	112	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	335	8			
4604	Marshall Street WRF	286B1215.1	28	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	84	8	S GARDEN AVE	2021	
4605	Marshall Street WRF	286B1210.1	148	No	4	2	4x2	CCTV Short Term	CCTV Short Term	DIP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	445	8	S GARDEN AVE	2021	6/1/1963
4606	Marshall Street WRF	286B1200.1	16	No	4	2	4x2	CCTV Short Term	CCTV Short Term	DIP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	47	8	S GARDEN AVE	2021	
4607	Marshall Street WRF	286B1205.1	17	No	4	2	4x2	CCTV Short Term	CCTV Short Term	DIP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	51	8	S GARDEN AVE	2021	
4608	Marshall Street WRF	306A4015.2	111	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	332	8			
4609	Marshall Street WRF	306A1090.2	94	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	282	8			
4610	Marshall Street WRF	306A3115.2	88	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	265	8			
4611	Marshall Street WRF	276A1100.1	30	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	90	8			8/4/2004
4612	Marshall Street WRF	276A1115.1	144	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	431	8			
4613	Marshall Street WRF	276A1205.1	53	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	158	8			
4614	Marshall Street WRF	276A2190.1	34	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	102	8			5/17/2005
4615	Marshall Street WRF	285A3045.2	30	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	91	8			
4616	Marshall Street WRF	267A1010.1	257	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	770	8			5/23/2008
4617	Marshall Street WRF	276A3105.1	350	No	5	2	5x2	CCTV Short Term	CCTV Short Term	DIP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,050	8			2/27/2009
4618	Marshall Street WRF	276A2055.1	212	No	5	2	5x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	637	8			4/30/2009
4619	Marshall Street WRF	268B8145.1	98	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	295	8			
4620	Marshall Street WRF	303B6015.2	36	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	109	8			6/1/1973
4621	Marshall Street WRF	269A4155.1	148	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	444	8			
4622	Marshall Street WRF	269A4165.1	277	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	831	8			
4623	Marshall Street WRF	269A4170.1	80	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	240	8			
4624	Marshall Street WRF	269A4175.1	278	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	834	8			
4625	Marshall Street WRF	269A4180.1	79	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	236	8			
4626	Marshall Street WRF	269A4185.1	102	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	306	8			
4627	Marshall Street WRF	269A4190.1	120	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	361	8			
4628	Marshall Street WRF	288A3035.2	151	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	454	8	N GLENWOOD AVE	2020	
4629	East WRF	318A1010.1	91	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	273	10			
4630	East WRF	274B6015.1	158	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	473	36			6/1/1964
4631	East WRF	316A2120.1	164	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	492	12			
4632	East WRF	308A3090.1	107	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	321	18			
4633	East WRF	308B6005.1	416	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,248	21			
4634	East WRF	289A1085.1	310	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	930	10			
4635	East WRF	251B8055.1	8	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	23	15	KINGS HWY	2019	
4636	East WRF	274B8030.1	242	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	726	36			6/1/1964
4637	East WRF	274B7010.1	314	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	942	36	ARLIE AVE	2018	6/1/1964
4638	East WRF	275A2015.1	24	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	72	36	BAYSHORE BLVD	2019	6/1/1963
4639	East WRF	308B5140.1	244	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	731	24			
4640	East WRF	275A2050.1	356	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,068	36			6/1/1964
4641	East WRF	283B8005.1	186	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	557	36	BAYSHORE BLVD	2019	6/1/1964
4642	East WRF	283B8015.1	438	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,315	36	BAYSHORE BLVD	2019	6/1/1963
4643	East WRF	274B8035.1	68	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	205	36			6/1/1964
4644	East WRF	316A2100.1	48	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	144	12			
4645	East WRF	291B8116.1	112	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	336	15			6/1/1961
4646	East WRF	291A4085.1	349	No	5	3	5x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,046	12			6/1/1961
4647	East WRF	274B8040.1	472	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,415	36			6/1/1964
4648	East WRF	275A1025.1	170	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	511	36	ARLIE AVE	2018	6/1/1964
4649	East WRF	275A2010.1	202	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	605	36	BAYSHORE BLVD	2019	6/1/1964
4650	East WRF	316A2115.1	163	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	489	12			
4651	East WRF	308B5150.1	99	No	4	5	4x5	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	296	24			
4652	East WRF	308A3085.1	368	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,104	18			6/1/1963
4653	East WRF	274A4010.1	42	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	125	36			6/1/1964
4654	East WRF	283B7045.1	321	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	962	36	NA	2019	6/1/1964
4655	East WRF	308B5125.1	115	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	344	18			
4656	East WRF	316B8020.1	372	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,116	6			
4657	East WRF	308B6050.1	284	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	852	21	DIPLOMAT DR	2020	
4658	East WRF	318A1040.1	75	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	225	10			
4659	East WRF	274B6030.1	295	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	886	36			6/1/1964
4660	East WRF	274B6005.1	563	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,688	36			6/1/1964
4661	East WRF	308B5155.1	69	No	4	5	4x5	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	207	21			
4662	East WRF	274B6020.1	92	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	276	36			6/1/1964
4663	East WRF	274B7005.1	275	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	825	36	ROSE RD	2018	6/1/1964
4664	East WRF	283B7080.1	244	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	733	36	BAYSHORE BLVD	2019	6/1/1964
4665	East WRF	274A4005.1	104	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	313	36			6/1/1964
4666	East WRF	283B6040.1	295	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	885	36	BAYSHORE BLVD	2019	6/1/1963
4667	East WRF	275A2035.1	479	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,436	36			6/1/1964
4668	East WRF	275A2020.1	149	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	446	36			6/1/1964
4669	East WRF	283B7025.1	342	No	4	5	4x5	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,027	36	BAYSHORE BLVD	2019	6/1/1964
4670	East WRF	274B8130.1	189	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	566	36	BAYSHORE BLVD	2019	6/1/1964
4671	East WRF	307A1045.1	17	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	51	15			
4672	East WRF	316A2105.1	44	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	131	12			
4673	East WRF	316B5005.1	133	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	398	6	ENVOY CT	2020	6/1/1966
4674	East WRF	275A2025.1	327	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	982	36			6/1/1964
4675	East WRF	308B6010.1	310	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	930	21	S HERCULES AVE	2020	
4676	East WRF	308B6115.1	130	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	390	21	EMBASSY DR	2020	6/1/1965
4677	East WRF	308B6090.1	136	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	408	6	ENVOY CT	2020	6/1/1966
4678	East WRF	318A1025.1	108	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	324	10			
4679	East WRF	274A4045.1	491	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,473	36			6/1/1964
4680	East WRF	283B8025.1	480	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,439	36	BAYSHORE BLVD	2019	6/1/1963
4681	East WRF	274B8135.1	75	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	225	36	BAYSHORE BLVD	2019	6/1/1964
4682	East WRF	289A1110.1	371	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,112	10			
4683	East WRF	308B6085.1	294	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	882	21	ENVOY CT	2020	6/1/1966
4684	East WRF	318A1055.1	194	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	581	10			
4685	East WRF	274B6025.1	423	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,269	36			6/1/1964
4686	East WRF	274B8140.1	261	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	782	36			6/1/1964
4687	East WRF	283B7065.1	374	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,121	36	BAYSHORE BLVD	2019	6/1/1964
4688	East WRF	308A3115.1	255	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	766	15			6/1/1967
4689	East WRF	274A4011.1	220	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	659	36			6/1/1964
4690	East WRF	274B8125.1	126	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	377	36			6/1/1964
4691	East WRF	274B8025.1	247	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	741	36			6/1/1964
4692	East WRF	298B8160.1	140	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	421	6			
4693	East WRF	292A4130.1	266	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	798	15			6/1/1961
4694	East WRF	292A4120.2	122	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	366	36	BAYSHORE BLVD	2019	6/1/1963
4695	East WRF	292B5015.1	186	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	557	36	BAYSHORE BLVD	2019	6/1/1963

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
4696	East WRF	292A4135.1	54	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	163	15			6/1/1961
4697	East WRF	301A3015.1	618	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,853	36			6/1/1963
4698	East WRF	283B6080.1	398	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,194	36	BAYSHORE BLVD	2019	6/1/1963
4699	East WRF	308B6045.1	489	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,466	21	EMBASSY DR	2020	
4700	East WRF	308B6040.1	529	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,587	21	S HERCULES AVE	2020	
4701	East WRF	283B6060.1	393	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,179	36	BAYSHORE BLVD	2019	6/1/1963
4702	East WRF	301A3005.1	402	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,207	30			6/1/1963
4703	East WRF	283B6050.1	328	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	984	36	BAYSHORE BLVD	2019	6/1/1963
4704	East WRF	292A4006.1	300	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	900	10			
4705	East WRF	318A1015.1	189	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	566	10			
4706	East WRF	308B8120.1	36	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	107	21			6/1/1966
4707	East WRF	318A1020.1	50	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	149	10			
4708	East WRF	318A1005.1	101	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	302	12			
4709	East WRF	300B5135.2	139	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	416	24			6/1/1986
4710	East WRF	288B6140.2	272	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	816		YELVINGTON AVE	2021	
4711	East WRF	297A2045.2	85	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	255	6			
4712	East WRF	316A4110.1	400	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,200	4			
4713	East WRF	307A1005.1	17	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	50				
4714	East WRF	306B8125.2	71	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	213				6/1/1961
4715	East WRF	308B6010.2	108	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	325				
4716	East WRF	308B6040.2	85	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	254		S HERCULES AVE	2020	
4717	East WRF	314B8110.2	63	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	190				
4718	East WRF	314B8105.2	64	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	193				
4719	East WRF	301A3007.1	61	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	183	30			6/1/1963
4720	East WRF	300B7020.1	302	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	905	8			6/1/1961
4721	East WRF	310A2020.1	29	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	86	8			6/1/1963
4722	East WRF	318A1050.1	196	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	587	8			
4723	East WRF	300B5025.1	87	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	261	8			6/1/1961
4724	East WRF	300B5020.1	278	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	834	8			6/1/1961
4725	East WRF	283A3115.1	55	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	166	8	SAN MATEO ST	2019	6/1/1968
4726	East WRF	300B7015.1	83	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	249	8			6/1/1961
4727	East WRF	283B5010.1	285	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	856	8	SAN JOSE ST	2019	6/1/1965
4728	East WRF	283B5055.1	285	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	856	8	SAN BERNADINO ST	2019	6/1/1965
4729	East WRF	288B5100.1	341	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,022	8			6/1/1962
4730	East WRF	316A2055.1	136	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	407	8			
4731	East WRF	316A4045.1	244	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	732	8			
4732	East WRF	315B7050.1	42	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	127	8			
4733	East WRF	289B6170.1	305	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	915	8			
4734	East WRF	289B6165.1	265	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	796	8			
4735	East WRF	298A4130.1	371	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,114	8			6/1/1962
4736	East WRF	309A4090.1	362	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,086	8	WHISPERING PINES DR	2019	6/1/1965
4737	East WRF	308B6030.1	76	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	228	8	EMBASSY DR	2020	6/1/1967
4738	East WRF	283B5075.1	333	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	999	8	SAN MATEO ST	2019	6/1/1965
4739	East WRF	297A3015.1	151	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	453	8	S LAKE DR	2021	
4740	East WRF	297A4085.1	288	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	864	8			
4741	East WRF	289B6175.1	285	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	856	8			
4742	East WRF	288B8030.1	321	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	963	8			
4743	East WRF	315B6045.1	230	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	689	8			
4744	East WRF	298A2070.1	268	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	804	8			6/1/1962
4745	East WRF	308B8090.1	363	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,090	8			6/1/1965
4746	East WRF	308B8075.1	337	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,012	8			6/1/1965
4747	East WRF	299A4090.1	142	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	427	8	FLUSHING AVE	2019	6/1/1964
4748	East WRF	317A3025.1	125	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	376	8	WILLIAMS DR	2019	6/1/1967
4749	East WRF	309A4100.1	199	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	596	8	WILLIAMS DR	2019	6/1/1963
4750	East WRF	315A3015.1	142	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	425	8			
4751	East WRF	300B7054.1	110	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	330	8			
4752	East WRF	314B7105.1	336	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,008	8			
4753	East WRF	317A3045.1	289	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	868	8	MONTE CARLO DR	2019	6/1/1968
4754	East WRF	309A3035.1	151	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	452	8	GLENMOOR RD N	2019	6/1/1962
4755	East WRF	317A3070.1	323	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	970	8	STEWART BLVD	2019	6/1/1968
4756	East WRF	283B7075.1	72	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	215	8	BAYSHORE BLVD	2019	6/1/1965
4757	East WRF	308B6060.1	330	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	991	8	EMBASSY DR	2020	
4758	East WRF	315B8055.1	257	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	771	8			
4759	East WRF	288B7045.1	338	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,013	8			
4760	East WRF	283A1030.1	340	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,020	8			
4761	East WRF	298B8150.1	98	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	295	8			
4762	East WRF	299A4080.1	218	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	654	8			
4763	East WRF	308B8085.1	338	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,014	8			6/1/1965
4764	East WRF	283B7055.1	269	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	807	8	SAN BERNADINO ST	2019	6/1/1965
4765	East WRF	308B6004.1	32	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	95	8			
4766	East WRF	283A3070.1	365	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,094	8	SAN BERNADINO ST	2019	6/1/1965
4767	East WRF	283A3015.1	333	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	998	8	SAN JOSE ST	2019	6/1/1965
4768	East WRF	309B6040.1	241	No	5	1	5x1	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	724	8			
4769	East WRF	283B7020.1	130	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	389	8	BAYSHORE BLVD	2019	6/1/1965
4770	East WRF	316A2075.1	358	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,074	8			
4771	East WRF	316A2070.1	376	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,128	8			
4772	East WRF	314B7035.1	349	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,046	8			
4773	East WRF	297A3005.1	173	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	518	8	S CREST AVE	2021	
4774	East WRF	297A2150.1	19	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	56	8			
4775	East WRF	289B6135.1	369	No	5	2	5x2	CCTV Short Term	CCTV Short Term	CT		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,107	8			
4776	East WRF	288B8005.1	303	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	908	8			
4777	East WRF	289B6055.1	16	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	48	8			
4778	East WRF	316A4050.1	277	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	831	8			
4779	East WRF	280A2030.1	292	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	876	8			
4780	East WRF	299A2075.1	163	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	489	8			6/1/1963
4781	East WRF	299A2095.1	65	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	196	8			6/1/1963
4782	East WRF	316B8025.1	333	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,000	8			
4783	East WRF	309A4005.1	218	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	653	8	WILLIAMS DR	2019	6/1/1963
4784	East WRF	308B8040.1	261	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	783	8			6/1/1965
4785	East WRF	308B8045.1	101	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	303	8			6/1/1965
4786	East WRF	309A1070.1	287	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	860	8			6/1/1962
4787	East WRF	289A1050.1	357	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,071	8			
4788	East WRF	300B5005.1	228	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	685	8			6/1/1961
4789	East WRF	283B5060.1	285	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	856	8	SAN BERNADINO ST	2019	6/1/1965
4790	East WRF	283B5065.1	295	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	885	8	MAXIMO AVE	2019	6/1/1965
4791	East WRF	309B6110.1	127	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	382	8	FAIRBANKS DR	2019	6/1/1967
4792	East WRF	317A3030.1	229	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	687	8	WILLIAMS DR	2019	6/1/1967
4793	East WRF	318A1045.1	314	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	941	8			
4794	East WRF	300B5010.1	241	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	722	8			6/1/1961
4795	East WRF	289B6085.1	278	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	834	8			
4796	East WRF	288B6105.1	288	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	863	8			6/1/1962
4797	East WRF	307B5030.1	245	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	735	8			
4798	East WRF	288B8080.1	29	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	87	8			
4799	East WRF	288B8110.1	60	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	181	8			
4800	East WRF	289B6125.1	227	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	681	8			
4801	East WRF	288B7050.1	331	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	993	8			
4802	East WRF	316A2025.1	35	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	106	8			
4803	East WRF	308B6035.1	78	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	235	8	EMBASSY DR	2020	
4804	East WRF	308B8060.1	351	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,052	8			6/1/1965

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
4805	East WRF	299A4095.1	150	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	449	8	CHINABERRY RD	2019	6/1/1964
4806	East WRF	317B7040.1	248	No	4	3	4x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	744	8			6/1/1968
4807	East WRF	316B8758.1	213	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	638	8			6/1/1966
4808	East WRF	308A3105.1	315	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	945	8			6/1/1962
4809	East WRF	308A2025.1	101	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	302	8			6/1/1967
4810	East WRF	300A3015.1	74	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	222	8			6/1/1961
4811	East WRF	274B8020.1	97	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	291	8	ROSE RD	2018	6/1/1963
4812	East WRF	306B8050.1	181	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	542	8			6/1/1961
4813	East WRF	298B5015.1	364	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,091	8			
4814	East WRF	288B8070.1	16	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	49	8			
4815	East WRF	288B5125.1	286	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	857	8			6/1/1962
4816	East WRF	288B6120.1	304	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	911	8	S KEYSTONE AVE	2021	6/1/1962
4817	East WRF	297A2155.1	69	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	206	8			
4818	East WRF	289B6160.1	274	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	823	8			
4819	East WRF	288B6035.1	219	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	657	8			6/1/1962
4820	East WRF	288B6155.1	324	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	973	8	S DUNCAN AVE	2021	
4821	East WRF	288B6095.1	174	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	521	8			6/1/1962
4822	East WRF	315B6025.1	20	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	60	8			6/1/1969
4823	East WRF	289B6095.1	320	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	961	8			
4824	East WRF	308B5075.1	322	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	966	8			6/1/1962
4825	East WRF	298A2025.1	31	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	94	8	S ARCTURAS AVE	2021	6/1/1962
4826	East WRF	298A4115.1	24	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	71	8			6/1/1962
4827	East WRF	309A1065.1	338	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,015	8			6/1/1962
4828	East WRF	299A4010.1	339	No	5	2	5x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,016	8			6/1/1962
4829	East WRF	309A4085.1	398	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,194	8	STEWART BLVD	2019	6/1/1965
4830	East WRF	315A3005.1	247	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	740	8			
4831	East WRF	315B8085.1	82	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	246	8			
4832	East WRF	308A4020.1	197	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	590	8			6/1/1967
4833	East WRF	283A3080.1	338	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,015	8	SAN MATEO ST	2019	6/1/1965
4834	East WRF	283B5085.1	345	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,036	8	SAN MATEO ST	2019	6/1/1965
4835	East WRF	314B7185.1	302	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	905	8			
4836	East WRF	288B5090.1	317	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	952	8			6/1/1962
4837	East WRF	288B5120.1	234	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	703	8			6/1/1962
4838	East WRF	288B6130.1	375	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,126	8			6/1/1962
4839	East WRF	297A2175.1	25	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	74	8			
4840	East WRF	289A2045.1	327	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	980	8			
4841	East WRF	289B6155.1	14	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	43	8			
4842	East WRF	298B5005.1	69	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	206	8			
4843	East WRF	309A2045.1	388	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,164	8	MORNINGSIDE DR	2019	6/1/1963
4844	East WRF	288B7075.1	308	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	924	8			
4845	East WRF	315B8035.1	318	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	955	8			
4846	East WRF	288B8065.1	247	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	740	8			
4847	East WRF	315B8065.1	35	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	106	8			
4848	East WRF	315B8060.1	311	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	934	8			
4849	East WRF	288B8045.1	332	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	996	8			
4850	East WRF	289B6130.1	130	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	391	8			
4851	East WRF	308B5105.1	270	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	809	8			6/1/1962
4852	East WRF	316B5085.1	347	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,042	8			6/1/1963
4853	East WRF	289A2085.1	273	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	820	8			
4854	East WRF	316A2015.1	253	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	758	8			
4855	East WRF	308B8030.1	345	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,035	8			6/1/1965
4856	East WRF	309A1090.1	323	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	968	8			6/1/1963
4857	East WRF	309A3125.1	287	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	862	8	HARN BLVD	2019	6/1/1963
4858	East WRF	308B8025.1	354	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,062	8			6/1/1965
4859	East WRF	317A3020.1	119	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	358	8	WHISPERING PINES DR	2019	6/1/1967
4860	East WRF	317A3060.1	283	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	849	8	MONTE CARLO DR	2019	6/1/1968
4861	East WRF	309A4060.1	250	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	749	8	WILLIAMS DR	2019	6/1/1963
4862	East WRF	309A3030.1	268	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	805	8	GLENMOOR RD N	2019	6/1/1962
4863	East WRF	283B5050.1	284	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	853	8	MONTEREY AVE	2019	6/1/1965
4864	East WRF	283B5080.1	313	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	939	8	ALAMEDA AVE	2019	6/1/1965
4865	East WRF	283B7060.1	88	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	264	8	BAYSHORE BLVD	2019	6/1/1965
4866	East WRF	288B5095.1	291	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	872	8			6/1/1962
4867	East WRF	288B5115.1	186	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	557	8			6/1/1962
4868	East WRF	298B8155.1	196	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	589	8			6/1/1963
4869	East WRF	309A1005.1	233	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	700	8	GLENMOOR RD	2019	6/1/1962
4870	East WRF	309A3100.1	175	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	524	8			6/1/1963
4871	East WRF	309A3105.1	322	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	966	8			6/1/1963
4872	East WRF	288B6150.1	37	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	110	8	S DUNCAN AVE	2021	
4873	East WRF	309A4075.1	252	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	756	8	STEWART BLVD	2019	6/1/1965
4874	East WRF	283B5005.1	288	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	864	8	MONTEREY AVE	2019	6/1/1965
4875	East WRF	283B5030.1	406	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,217	8	SAN PEDRO ST	2019	6/1/1965
4876	East WRF	318A1200.1	220	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	659	8			
4877	East WRF	300B7010.1	302	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	905	8			6/1/1961
4878	East WRF	283B5035.1	286	No	4	1	4x1	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	858	8	SAN PEDRO ST	2019	6/1/1965
4879	East WRF	283B5070.1	290	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	870	8	MAXIMO AVE	2019	6/1/1965
4880	East WRF	283B5045.1	341	No	4	1	4x1	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,023	8	MAXIMO AVE	2019	6/1/1965
4881	East WRF	275A2055.1	91	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	272	8			6/1/1964
4882	East WRF	283B7040.1	117	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	351	8	BAYSHORE BLVD	2019	6/1/1965
4883	East WRF	283B7035.1	90	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	269	8	SAN PEDRO ST	2019	6/1/1965
4884	East WRF	316A4095.1	204	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	612	8			
4885	East WRF	289A2055.1	177	No	5	2	5x2	CCTV Short Term	CCTV Short Term	LIN		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	530	8			
4886	East WRF	288B8075.1	353	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,060	8			
4887	East WRF	308B5025.1	28	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	83	8			6/1/1962
4888	East WRF	309A1075.1	179	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	536	8			6/1/1966
4889	East WRF	299B5010.1	63	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	188	8			6/1/1961
4890	East WRF	299B6040.1	38	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	114	8			6/1/1964
4891	East WRF	309A3070.1	354	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,061	8			6/1/1963
4892	East WRF	300A1006.1	180	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	541	8			6/1/1961
4893	East WRF	290B8015.1	272	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	815	8			6/1/1964
4894	East WRF	309A4025.1	263	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	788	8	WILLIAMS DR	2019	6/1/1963
4895	East WRF	299B6045.1	280	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	840	8			6/1/1962
4896	East WRF	309B6045.1	79	No	5	1	5x1	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	236	8			
4897	East WRF	306B8190.1	151	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	452	8			
4898	East WRF	283B7070.1	349	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,046	8	SAN MATEO ST	2019	6/1/1965
4899	East WRF	283B7030.1	384	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,152	8	SAN PEDRO ST	2019	6/1/1965
4900	East WRF	316A2110.1	35	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	105	8			
4901	East WRF	306B8080.1	195	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	585	8			
4902	East WRF	288B5055.1	157	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	470	8	LAURA ST	2020	6/1/1962
4903	East WRF	289B6070.1	255	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	765	8			
4904	East WRF	289A1015.1	291	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	873	8			
4905	East WRF	315B8075.1	341	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,023	8			
4906	East WRF	317A1065.1	258	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	774	8			6/1/1968
4907	East WRF	307B5060.1	146	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	438	8			
4908	East WRF	289A4050.1	330	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	990	8			
4909	East WRF	308A4015.1	80	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	240	8			6/1/1967
4910	East WRF	289A1075.1	413	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,239	8			
4911	East WRF	291A4080.1	79	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	237	8			
4912	East WRF	300A3005.1	50	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	150	8			6/1/1961
4913	East WRF	283B7010.1	228	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	683	8	SAN JOSE ST	2019	6/1/1965

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
4914	East WRF	275A2030.1	336	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,008	8	BAYSHORE BLVD	2019	6/1/1963
4915	East WRF	290B8055.1	44	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	133	8			6/1/1964
4916	East WRF	300A3010.1	318	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	955	8			6/1/1961
4917	East WRF	300B5030.1	80	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	240	8			6/1/1961
4918	East WRF	283A3075.1	306	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	919	8	MADERA AVE	2019	6/1/1965
4919	East WRF	283A3045.1	331	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	994	8	SAN PEDRO ST	2019	6/1/1965
4920	East WRF	283A3010.1	302	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	906	8	SAN JOSE ST	2019	6/1/1965
4921	East WRF	283A4015.1	127	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	380	8	MADERA AVE	2019	6/1/1968
4922	East WRF	275A2045.1	32	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	96	8			6/1/1964
4923	East WRF	283B7015.1	320	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	961	8	SAN JOSE ST	2019	6/1/1965
4924	East WRF	316A2085.1	375	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,124	8			
4925	East WRF	306B8045.1	72	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	217	8			6/1/1961
4926	East WRF	314B7100.1	64	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	192	8			
4927	East WRF	297A2180.1	14	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	43	8			
4928	East WRF	290B6025.1	288	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	863	8			6/1/1964
4929	East WRF	288B8105.1	122	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	366	8			
4930	East WRF	288B8095.1	76	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	227	8			
4931	East WRF	288B7070.1	332	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	995	8			
4932	East WRF	289B6060.1	119	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	356	8			
4933	East WRF	289B6180.1	278	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	834	8			
4934	East WRF	288B5085.1	227	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	681	8			6/1/1962
4935	East WRF	288B6030.1	175	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	525	8			6/1/1962
4936	East WRF	288B6100.1	47	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	141	8			6/1/1962
4937	East WRF	288B6140.1	315	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	945	8	YELVINGTON AVE	2021	
4938	East WRF	288B7080.1	315	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	946	8			
4939	East WRF	315B8020.1	54	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	162	8			
4940	East WRF	288B7025.1	355	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,064	8			
4941	East WRF	288B5025.1	294	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	882	8			6/1/1962
4942	East WRF	288B6115.1	299	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	898	8			6/1/1962
4943	East WRF	288B6110.1	200	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	600	8			6/1/1962
4944	East WRF	315B8005.1	119	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	358	8			
4945	East WRF	308B6095.1	313	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	939	8	AMBASSADOR DR	2020	6/1/1963
4946	East WRF	316A2010.1	256	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	768	8			
4947	East WRF	289A1090.1	374	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,123	8			
4948	East WRF	308B8065.1	349	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,047	8			6/1/1965
4949	East WRF	309A1085.1	156	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	469	8			6/1/1963
4950	East WRF	309A1100.1	376	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,128	8	HARN BLVD	2019	6/1/1963
4951	East WRF	309B6030.1	56	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	169	8	MORELAND DR	2019	6/1/1966
4952	East WRF	283B7050.1	251	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	752	8	SAN BERNADINO ST	2019	6/1/1965
4953	East WRF	309A1080.1	266	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	799	8	ST. CHARLES DR	2019	6/1/1966
4954	East WRF	308A4010.1	79	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	237	8			6/1/1967
4955	East WRF	300B5015.1	404	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,212	8			6/1/1961
4956	East WRF	283B5090.1	345	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,034	8	MAXIMO AVE	2019	6/1/1965
4957	East WRF	274B8055.1	320	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	960	8	ROSE RD	2018	6/1/1963
4958	East WRF	288B6145.1	341	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,024	8	S KEYSTONE AVE	2021	
4959	East WRF	309A1060.1	251	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	752	8			6/1/1962
4960	East WRF	288B6160.1	22	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	66	8	S DUNCAN AVE	2021	
4961	East WRF	288B8100.1	249	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	748	8			
4962	East WRF	289A4055.1	326	No	5	2	5x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	978	8			
4963	East WRF	289A1025.1	97	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	292	8			
4964	East WRF	309A1025.1	332	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	995	8	GLENMOOR RD	2019	6/1/1962
4965	East WRF	308B8080.1	151	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	453	8			6/1/1965
4966	East WRF	317B5030.1	277	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	830	8	FAIRBANKS DR	2019	6/1/1967
4967	East WRF	308A2030.1	70	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	210	8			6/1/1967
4968	East WRF	283A3065.1	46	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	138	8	SAN BERNADINO ST	2019	6/1/1965
4969	East WRF	283B5015.1	313	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	940	8	SAN JOSE ST	2019	6/1/1965
4970	East WRF	289A2050.1	329	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	988	8			
4971	East WRF	317A1070.1	24	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	71	8			6/1/1968
4972	East WRF	288B8020.1	282	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	846	8			
4973	East WRF	307B5015.1	362	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,085	8			6/1/1967
4974	East WRF	315B8080.1	159	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	478	8			
4975	East WRF	289B6090.1	143	No	5	2	5x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	430	8			
4976	East WRF	280A2035.1	155	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	464	8			
4977	East WRF	289A1005.1	172	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	516	8			
4978	East WRF	289A1080.1	57	No	5	3	5x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	172	8			
4979	East WRF	309B8030.1	54	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	161	8			6/1/1968
4980	East WRF	308A1029.1	99	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	297	8			6/1/1967
4981	East WRF	283A3035.1	309	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	926	8	SAN PEDRO ST	2019	6/1/1965
4982	East WRF	275A2040.1	117	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	351	8			6/1/1964
4983	East WRF	316A2065.1	146	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	437	8			
4984	East WRF	297A2005.2	171	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	514	8	S HILLCREST AVE	2018	6/1/1967
4985	East WRF	306B8065.1	98	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	295	8			6/1/1961
4986	East WRF	297A2185.1	46	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	137	8			
4987	East WRF	317A1060.1	119	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	357	8			6/1/1968
4988	East WRF	289B6065.1	114	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	341	8			
4989	East WRF	308B5040.1	276	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	828	8			6/1/1962
4990	East WRF	289A4045.1	330	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	991	8			
4991	East WRF	298A4095.1	20	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	60	8			6/1/1962
4992	East WRF	309A2025.1	341	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,022	8			6/1/1963
4993	East WRF	308B8010.1	240	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	720	8			6/1/1965
4994	East WRF	299B6010.1	281	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	842	8			6/1/1962
4995	East WRF	299B6005.1	341	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,022	8			
4996	East WRF	309B6060.1	58	No	5	1	5x1	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	175	8			
4997	East WRF	309A4020.1	261	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	783	8			6/1/1964
4998	East WRF	317B7110.1	112	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	335	8			6/1/1968
4999	East WRF	318A1065.1	73	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	219	8			
5000	East WRF	283B5040.1	288	No	4	1	4x1	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	865	8	SAN PEDRO ST	2019	6/1/1965
5001	East WRF	307A3020.1	200	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	599	8			
5002	East WRF	317A1055.1	213	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	640	8			6/1/1968
5003	East WRF	288B6055.1	330	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	990	8			6/1/1962
5004	East WRF	289B6035.1	206	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	618	8			
5005	East WRF	308B5035.1	162	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	485	8			6/1/1962
5006	East WRF	316A2050.1	160	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	480	8			
5007	East WRF	309A1055.1	341	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,024	8			6/1/1962
5008	East WRF	309A1105.1	278	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	833	8			6/1/1963
5009	East WRF	309A2005.1	286	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	859	8			6/1/1963
5010	East WRF	309B6070.1	215	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	646	8	HARN BLVD	2019	
5011	East WRF	309A3055.1	260	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	780	8			6/1/1962
5012	East WRF	299A4085.1	231	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	693	8	FLUSHING AVE	2019	
5013	East WRF	309A3010.1	309	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	926	8	CHINABERRY RD	2019	6/1/1963
5014	East WRF	309B8015.1	72	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	215	8			6/1/1968
5015	East WRF	280A2060.1	268	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	805	8			
5016	East WRF	309B6005.1	86	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	257	8	MORELAND DR	2019	6/1/1966
5017	East WRF	280A2050.1	253	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	759	8			
5018	East WRF	280A2100.1	76	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	229	8			
5019	East WRF	317B7035.1	25	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	74	8			6/1/1968
5020	East WRF	314B8145.1	74	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	223	8			
5021	East WRF	300A4110.1	186	No	5	3	5x3	CCTV Short Term	CCTV Short Term	LIN		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	558	8			6/1/1961
5022	East WRF	292B5010.1	40	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	119	8	BAYSHORE BLVD	2019	

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
5023	East WRF	292A1065.1	23	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	69	8			6/1/1968
5024	East WRF	301A1005.1	352	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,055	8			6/1/1961
5025	East WRF	289A4010.1	260	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	779	8			
5026	East WRF	289A2015.1	292	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	876	8			
5027	East WRF	289A4020.1	233	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	698	8			
5028	East WRF	289A4080.1	357	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,072	8			
5029	East WRF	289A4015.1	258	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	774	8			
5030	East WRF	289A4070.1	348	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,044	8			
5031	East WRF	289A2005.1	326	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	979	8			
5032	East WRF	289A2095.1	25	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	74	8			
5033	East WRF	289A2105.1	130	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	390	8			
5034	East WRF	289A2075.1	243	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	728	8			
5035	East WRF	288B7020.1	332	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	997	8			
5036	East WRF	289A2010.1	346	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,037	8			
5037	East WRF	288B8040.1	320	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	961	8			
5038	East WRF	288B8085.1	359	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,077	8			
5039	East WRF	289A1065.1	21	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	63	8			
5040	East WRF	289A1035.1	92	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	275	8			
5041	East WRF	289A3030.1	377	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,132	8			
5042	East WRF	289A3070.1	357	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,070	8			
5043	East WRF	289A1105.1	315	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	944	8			
5044	East WRF	289A1095.1	320	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	960	8			
5045	East WRF	317B7105.1	331	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	994	8			6/1/1968
5046	East WRF	317B7055.1	14	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	42	8			6/1/1968
5047	East WRF	300B7005.1	329	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	987	8			6/1/1961
5048	East WRF	289A3010.1	370	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,109	8			
5049	East WRF	297B6085.1	196	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	589	8			6/1/1964
5050	East WRF	297B6120.1	151	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	453	8			6/1/1964
5051	East WRF	297B6100.1	254	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	762	8			6/1/1964
5052	East WRF	297B8040.1	296	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	887	8			
5053	East WRF	309B8025.1	395	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,185	8			6/1/1968
5054	East WRF	309B8020.1	421	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,264	8			6/1/1968
5055	East WRF	309A1030.1	257	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	770	8			6/1/1962
5056	East WRF	309A3065.1	287	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	861	8			6/1/1963
5057	East WRF	309A1035.1	342	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,026	8			6/1/1962
5058	East WRF	309A1045.1	42	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	125	8	GLENMOOR RD S	2019	6/1/1962
5059	East WRF	309A1050.1	143	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	429	8	GLENMOOR RD S	2019	6/1/1962
5060	East WRF	309A1095.1	368	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,105	8	YORK DR	2019	6/1/1963
5061	East WRF	309A3095.1	368	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,104	8	YORK DR	2019	6/1/1963
5062	East WRF	309A2015.1	284	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	851	8			6/1/1963
5063	East WRF	309A3080.1	287	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	862	8	FLUSHING AVE	2019	6/1/1963
5064	East WRF	309A1110.1	372	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,116	8			6/1/1963
5065	East WRF	309A3060.1	184	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	551	8	GLENMOOR CT	2019	6/1/1963
5066	East WRF	309A2010.1	279	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	836	8			6/1/1963
5067	East WRF	308B8050.1	256	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	768	8			6/1/1965
5068	East WRF	309A3115.1	152	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	456	8	FLUSHING AVE	2019	6/1/1963
5069	East WRF	309A3110.1	311	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	932	8	HENNESEN DR	2019	6/1/1963
5070	East WRF	309A3090.1	203	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	610	8			6/1/1963
5071	East WRF	308B8020.1	146	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	437	8			6/1/1965
5072	East WRF	309A2020.1	385	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,154	8			6/1/1963
5073	East WRF	309A4015.1	304	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	912	8	WILLIAMS DR	2019	6/1/1963
5074	East WRF	309A1115.1	393	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,178	8			6/1/1963
5075	East WRF	309A3120.1	192	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	575	8			6/1/1963
5076	East WRF	309A4045.1	164	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	493	8	WILLIAMS DR	2019	6/1/1963
5077	East WRF	308B5095.1	151	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	453	8			6/1/1962
5078	East WRF	309A2035.1	384	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,153	8			6/1/1963
5079	East WRF	309A2030.1	408	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,225	8			6/1/1963
5080	East WRF	308B5090.1	241	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	724	8			6/1/1962
5081	East WRF	308B5080.1	149	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	446	8			6/1/1962
5082	East WRF	308B8015.1	250	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	751	8			6/1/1965
5083	East WRF	308B6055.1	125	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	375	8			
5084	East WRF	307B7025.1	50	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	149	8			
5085	East WRF	307B7005.1	86	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	259	8			
5086	East WRF	307B7020.1	114	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	341	8			
5087	East WRF	307B7030.1	156	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	468	8			
5088	East WRF	307B7035.1	328	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	983	8			
5089	East WRF	307B7045.1	70	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	211	8			
5090	East WRF	307B7050.1	19	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	58	8			
5091	East WRF	307B7055.1	47	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	142	8			
5092	East WRF	315A2050.1	117	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	352	8			6/1/1961
5093	East WRF	315B8030.1	347	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,042	8			
5094	East WRF	315B8010.1	405	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,215	8			
5095	East WRF	315B8115.1	78	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	233	8			
5096	East WRF	316A2090.1	348	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,045	8			
5097	East WRF	315B8110.1	266	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	798	8			
5098	East WRF	316A2080.1	253	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	758	8			
5099	East WRF	315B8095.1	234	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	703	8			
5100	East WRF	316A4040.1	39	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	118	8			
5101	East WRF	316A4035.1	189	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	568	8			
5102	East WRF	315B8025.1	217	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	651	8			
5103	East WRF	316A2095.1	117	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	351	8			
5104	East WRF	316B8010.1	163	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	489	8			
5105	East WRF	297A4080.1	245	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	736	8			
5106	East WRF	297B6025.1	343	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,028	8			6/1/1964
5107	East WRF	297B6070.1	267	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	802	8			6/1/1964
5108	East WRF	297B8035.1	112	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	337	8			
5109	East WRF	307A4010.1	10	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	30	8			
5110	East WRF	307A3083.1	157	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	471	8			6/1/1962
5111	East WRF	307A3050.1	270	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	809	8			
5112	East WRF	307A3045.1	272	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	817	8			
5113	East WRF	307A2010.1	53	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	158	8			
5114	East WRF	306B7100.1	37	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	112	8			
5115	East WRF	306B8085.1	59	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	177	8			
5116	East WRF	306B8075.1	163	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	489	8			
5117	East WRF	306B7140.1	264	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	792	8			
5118	East WRF	306B7180.1	267	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	800	8			
5119	East WRF	306B8155.1	341	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,023	8			
5120	East WRF	306B7145.1	53	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	158	8			
5121	East WRF	306B7105.1	397	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,192	8			
5122	East WRF	306B8035.1	396	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,187	8			
5123	East WRF	323A1175.1	305	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	915	8			
5124	East WRF	323A1170.1	294	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	881	8			
5125	East WRF	323A1165.1	294	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	883	8			
5126	East WRF	323A1160.1	309	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	927	8			
5127	East WRF	323A1155.1	141	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	423	8			
5128	East WRF	301A1010.1	354	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,062	8			
5129	East WRF	301A1030.1	241	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	722	8			
5130	East WRF	289B6150.1	153	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	458	8			6/1/1964
5131	East WRF	288B6135.1	102	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	305	8	S DUNCAN AVE	2021	

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
5132	East WRF	292A2005.1	315	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	946	8			6/1/1968
5133	East WRF	292B5005.1	276	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	827	8	BAYSHORE BLVD	2019	
5134	East WRF	292A3035.1	137	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	410	8			
5135	East WRF	292A2075.1	110	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	330	8			
5136	East WRF	292A4005.1	365	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,094	8			
5137	East WRF	323A1150.1	22	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	67	8			
5138	East WRF	297B5040.1	260	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	781	8	TURNER ST	2021	
5139	East WRF	297B5015.1	240	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	721	8	S KEYSTONE AVE	2021	
5140	East WRF	292A3005.1	242	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	726	8			
5141	East WRF	297B8085.1	10	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	30	8	TURNER ST	2021	
5142	East WRF	297B8090.1	5	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	15	8	TURNER ST	2021	
5143	East WRF	297B8095.1	5	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	15	8	SPENCER AVE	2021	
5144	East WRF	280A4005.1	78	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	235	8			
5145	East WRF	280A5015.1	201	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	603	8			
5146	East WRF	289A4100.1	20	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	60	8			
5147	East WRF	297B8080.1	120	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	359	8			6/1/1964
5148	East WRF	299B5070.1	162	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	486	8			
5149	East WRF	306B8210.1	52	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	157	8			
5150	East WRF	307A4015.1	81	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	242	8			6/1/1962
5151	East WRF	307A4020.1	105	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	315	8			6/1/1967
5152	East WRF	288B5105.1	318	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	955	8			6/1/1962
5153	East WRF	288B6020.1	420	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,261	8			6/1/1962
5154	East WRF	288B5110.1	178	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	535	8			6/1/1962
5155	East WRF	288B7060.1	327	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	981	8			
5156	East WRF	289A1070.1	420	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,261	8			
5157	East WRF	289A1045.1	337	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,012	8			
5158	East WRF	289A3045.1	167	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	500	8			
5159	East WRF	289A3055.1	330	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	991	8			
5160	East WRF	289A3085.1	361	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,083	8			
5161	East WRF	289B5055.1	280	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	841	8			
5162	East WRF	300A3020.1	81	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	244	8			6/1/1961
5163	East WRF	299A1060.1	325	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	975	8			
5164	East WRF	299A1040.1	330	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	989	8			
5165	East WRF	308B1000.0	142	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	425	8	EMBASSY DR	2020	6/1/1967
5166	East WRF	308B1005.1	12	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	36	8			6/1/1965
5167	East WRF	307A3081.1	152	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	456	8			6/1/1962
5168	East WRF	315A1030.1	119	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	357	8			
5169	East WRF	275A2005.2	84	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	251	8	ARLIE AVE	2018	6/1/1963
5170	East WRF	292A2060.2	306	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	917	8			
5171	Northeast WRF	273A2040.1	314	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	943	18			6/1/1967
5172	Northeast WRF	265A2090.1	153	No	4	4	4x4	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	460	12			6/1/1969
5173	Northeast WRF	289B7100.1	133	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	399	12			
5174	Northeast WRF	274A2030.1	22	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	67	36			6/1/1967
5175	Northeast WRF	271B8045.1	322	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	966	18			
5176	Northeast WRF	281A1020.1	50	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	150	15			
5177	Northeast WRF	281A2045.1	261	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	784	12			
5178	Northeast WRF	274A2708.1	164	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	491	36			6/1/1967
5179	Northeast WRF	281B8050.1	176	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	529	12			6/1/1967
5180	Northeast WRF	281A3010.1	99	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	298	16			6/1/1969
5181	Northeast WRF	273A2065.1	150	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	451	18			6/1/1967
5182	Northeast WRF	289B7025.1	256	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	769	12			
5183	Northeast WRF	280B8055.1	90	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	271	6			
5184	Northeast WRF	273A2080.1	544	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,633	30			6/1/1967
5185	Northeast WRF	271B8010.1	75	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	225	18			
5186	Northeast WRF	281A1050.1	343	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,029	15			
5187	Northeast WRF	281A2050.1	115	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	344	12			
5188	Northeast WRF	221A4075.1	330	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	990	10			
5189	Northeast WRF	281B7040.1	399	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,197	12			6/1/1967
5190	Northeast WRF	282A3025.1	234	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	702	12			
5191	Northeast WRF	279B8030.1	117	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	350	10			
5192	Northeast WRF	221A4050.1	374	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,121	10			
5193	Northeast WRF	271B8050.1	27	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	81	15			
5194	Northeast WRF	289B7080.1	388	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,164	12			
5195	Northeast WRF	289B7095.1	111	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	334	12			
5196	Northeast WRF	281B8040.1	36	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	108	12			6/1/1967
5197	Northeast WRF	281B8020.1	401	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,203	12			6/1/1967
5198	Northeast WRF	279B7077.1	21	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	63	6			
5199	Northeast WRF	264A1005.1	75	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	225	12			6/1/1967
5200	Northeast WRF	271B8020.1	325	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	975	18			
5201	Northeast WRF	289B7045.1	192	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	576	12			
5202	Northeast WRF	280B8035.1	156	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	467	6			
5203	Northeast WRF	274A2045.1	228	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	683	36			6/1/1967
5204	Northeast WRF	201A4005.1	38	No	5	4	5x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	115	24			6/1/1977
5205	Northeast WRF	271B8025.1	316	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	948	18			
5206	Northeast WRF	280B8105.1	146	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	437	12			
5207	Northeast WRF	289B7030.1	33	No	4	3	4x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	100	12			
5208	Northeast WRF	281B8035.1	354	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,062	12			6/1/1967
5209	Northeast WRF	274A2010.1	33	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	100	36			
5210	Northeast WRF	265A2035.1	251	No	4	4	4x4	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	753	12			6/1/1972
5211	Northeast WRF	273A3110.1	17	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	51	14			
5212	Northeast WRF	273A2010.1	89	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	266	15			6/1/1967
5213	Northeast WRF	280B8050.1	23	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	69	6			
5214	Northeast WRF	281B8070.1	130	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	389	12			6/1/1967
5215	Northeast WRF	271B8225.1	325	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	975	18			
5216	Northeast WRF	289B7005.1	81	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	244	12			
5217	Northeast WRF	280B8045.1	48	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	143	6			
5218	Northeast WRF	273A2055.3	34	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	102	16			
5219	Northeast WRF	273A2055.2	28	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	83	16			
5220	Northeast WRF	273A2050.1	250	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	750	18			6/1/1967
5221	Northeast WRF	273A2045.1	394	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,181	18			6/1/1967
5222	Northeast WRF	265A2075.1	52	No	4	4	4x4	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	155	12			6/1/1969
5223	Northeast WRF	289B7055.1	48	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	145	10			
5224	Northeast WRF	281B7025.1	117	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	350	12			6/1/1967
5225	Northeast WRF	279B7076.1	21	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	62	6			
5226	Northeast WRF	282A3004.1	226	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	677	18			
5227	Northeast WRF	282A3020.1	226	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	679	12			
5228	Northeast WRF	274A2015.1	280	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	840	36			6/1/1967
5229	Northeast WRF	273B8085.1	546	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,638	30			6/1/1967
5230	Northeast WRF	281A1065.1	342	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,026	12			
5231	Northeast WRF	281B7010.1	391	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,173	12			6/1/1967
5232	Northeast WRF	265A2085.1	56	No	4	4	4x4	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	169	12			6/1/1969
5233	Northeast WRF	280A4040.1	201	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	602				
5234	Northeast WRF	280A4035.1	232	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	696	4			
5235	Northeast WRF	272B8035.2	51	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	154	18			
5236	Northeast WRF	272B8045.1	307	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	920	24			6/1/1967
5237	Northeast WRF	281B7005.1	67	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	202	12			6/1/1967
5238	Northeast WRF	282A3010.1	477	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,430	30			6/1/1967
5239	Northeast WRF	282B5020.1	476	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,427	30			6/1/1967
5240	Northeast WRF	282B5025.1	441	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,322	30			6/1/1967

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
5241	Northeast WRF	273A4095.1	481	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,442	30			6/1/1967
5242	Northeast WRF	282A3005.1	485	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,454	30			6/1/1967
5243	Northeast WRF	280A5030.1	72	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	217	6			
5244	Northeast WRF	280A5025.1	60	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	179	6			
5245	Northeast WRF	280A4015.2	72	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	215	6			
5246	Northeast WRF	282B2077.1	114	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	342	30			6/1/1967
5247	Northeast WRF	188B1000.1	20	No	5	2	5x2	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	59	16			11/1/2004
5248	Northeast WRF	272A1025.1	204	No	4	4	4x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	612	8			
5249	Northeast WRF	255A2065.1	170	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	510	8			6/1/1967
5250	Northeast WRF	273A3070.1	392	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,175	8			6/1/1970
5251	Northeast WRF	256A2100.1	79	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	237	8			6/1/1973
5252	Northeast WRF	279B8010.1	237	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	712	8			
5253	Northeast WRF	280A4050.1	170	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	510	8			
5254	Northeast WRF	280A4045.1	108	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	323	8			
5255	Northeast WRF	280B8090.1	96	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	288	8			
5256	Northeast WRF	281A4010.1	194	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	583	8			
5257	Northeast WRF	281A4030.1	52	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	155	8			
5258	Northeast WRF	290A3075.1	297	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	891	8			6/1/1967
5259	Northeast WRF	281B6020.1	92	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	277	8			
5260	Northeast WRF	273A2030.1	17	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	52	8			6/1/1973
5261	Northeast WRF	221A4005.1	249	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	747	8			
5262	Northeast WRF	234A1050.1	158	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	475	8			6/1/1977
5263	Northeast WRF	261B7005.1	72	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	216	8			6/1/1970
5264	Northeast WRF	289B7060.1	395	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,185	8	S STARCREST DR	2018	6/1/1968
5265	Northeast WRF	280B6055.1	133	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	399	8			
5266	Northeast WRF	281B6015.1	13	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	39	8			
5267	Northeast WRF	223A1010.1	34	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	102	8			
5268	Northeast WRF	271B8015.1	260	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	780	8			
5269	Northeast WRF	281A1064.1	151	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	452	8			
5270	Northeast WRF	188B5150.1	67	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	201	8			
5271	Northeast WRF	234A1080.1	229	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	688	8			6/1/1977
5272	Northeast WRF	279B8055.1	168	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	505	8			
5273	Northeast WRF	280A4015.1	25	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	75	8			
5274	Northeast WRF	280B6105.1	284	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	851	8			
5275	Northeast WRF	273B6145.1	297	No	4	4	4x4	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	890	8	PARK TRAIL LN	2020	6/1/1972
5276	Northeast WRF	233A3025.1	300	No	5	3	5x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	900	8			6/1/1979
5277	Northeast WRF	200B5035.1	30	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	91	8			
5278	Northeast WRF	223A1025.1	400	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,201	8			
5279	Northeast WRF	280A4090.1	270	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	810	8			
5280	Northeast WRF	280A4065.1	192	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	576	8			
5281	Northeast WRF	272A1050.1	155	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	465	8			
5282	Northeast WRF	279B8045.1	369	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,107	8			
5283	Northeast WRF	280A4080.1	178	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	534	8			
5284	Northeast WRF	280B5105.1	52	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	156	8			
5285	Northeast WRF	263B5005.1	66	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	198	8	E SKYLINE DR	2020	6/1/1970
5286	Northeast WRF	273B6030.1	302	No	4	2	4x2	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	907	8	EDENWOOD ST	2020	6/1/1972
5287	Northeast WRF	211A4010.1	235	No	5	2	5x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	704	8	LONG VIEW DR	2022	6/1/1973
5288	Northeast WRF	279B8095.1	292	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	875	8			
5289	Northeast WRF	280A4100.1	287	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	860	8			
5290	Northeast WRF	280B5145.1	116	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	349	8			
5291	Northeast WRF	280A4095.1	178	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	535	8			
5292	Northeast WRF	280A4140.1	361	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,082	8			
5293	Northeast WRF	289B8100.1	390	No	4	2	4x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,170	8	RAINBOW DR	2018	6/1/1968
5294	Northeast WRF	289B7115.1	175	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	525	8			
5295	Northeast WRF	289B8040.2	68	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	203	8			
5296	Northeast WRF	289B8080.1	413	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,239	8	RAINBOW DR	2018	6/1/1968
5297	Northeast WRF	290A3080.1	77	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	232	8			6/1/1967
5298	Northeast WRF	271B8006.1	236	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	709	8			
5299	Northeast WRF	200B5015.1	399	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,198	8			
5300	Northeast WRF	280B8125.1	157	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	471	8			6/1/1968
5301	Northeast WRF	222B7070.1	75	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	225	8			6/1/1976
5302	Northeast WRF	233A3035.1	52	No	5	4	5x4	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	156	8			6/1/1979
5303	Northeast WRF	222B7085.1	127	No	5	4	5x4	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	382	8			6/1/1976
5304	Northeast WRF	289B8065.1	229	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	688	8	RAINBOW DR	2018	6/1/1968
5305	Northeast WRF	233B5035.1	391	No	5	2	5x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,173	8			6/1/1979
5306	Northeast WRF	233B5060.1	298	No	5	2	5x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	895	8			6/1/1979
5307	Northeast WRF	200B5045.1	147	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	441	8	EAGLE ESTATES CIR N	2018	6/1/1978
5308	Northeast WRF	211A4030.1	235	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	704	8	LONG VIEW DR	2022	6/1/1973
5309	Northeast WRF	280A4070.1	30	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	90	8			
5310	Northeast WRF	280A4020.1	194	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	582	8			
5311	Northeast WRF	289B8090.1	26	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	78	8			6/1/1968
5312	Northeast WRF	256A2110.1	22	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	67	8			6/1/1973
5313	Northeast WRF	273A3075.1	68	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	203	8			
5314	Northeast WRF	200B5010.1	73	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	220	8			
5315	Northeast WRF	200B5030.1	394	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,181	8			
5316	Northeast WRF	233A3040.1	227	No	5	3	5x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	681	8			6/1/1979
5317	Northeast WRF	280B6095.1	184	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	551	8			
5318	Northeast WRF	279B8070.1	251	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	754	8			
5319	Northeast WRF	280A4115.1	166	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	498	8			
5320	Northeast WRF	280B6015.1	386	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,158	8			
5321	Northeast WRF	280B7025.1	64	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	192	8			
5322	Northeast WRF	280B8135.1	294	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	882	8			6/1/1968
5323	Northeast WRF	273A3095.1	107	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	321	8			
5324	Northeast WRF	273A3040.1	105	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	315	8			
5325	Northeast WRF	271A3009.1	475	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,425	8			
5326	Northeast WRF	281A1049.1	65	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	196	8			
5327	Northeast WRF	262B7065.1	342	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,026	8			6/1/1979
5328	Northeast WRF	272A4085.1	110	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	329	8			
5329	Northeast WRF	290B5015.1	35	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	104	8			
5330	Northeast WRF	280B5160.1	346	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,038	8			
5331	Northeast WRF	280B7030.1	308	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	924	8			
5332	Northeast WRF	280B8115.1	215	No	4	4	4x4	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	646	8			6/1/1968
5333	Northeast WRF	272B7005.1	262	No	5	3	5x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	787	8			6/1/1973
5334	Northeast WRF	279B8090.1	248	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	744	8			
5335	Northeast WRF	221A1010.1	292	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	876	8			
5336	Northeast WRF	221B6060.1	387	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,162	8			
5337	Northeast WRF	253A4095.1	250	No	5	2	5x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	751	8			6/1/1974
5338	Northeast WRF	280B8095.1	65	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	195	8			
5339	Northeast WRF	289B8040.1	233	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	700	8			
5340	Northeast WRF	280B8030.1	302	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	907	8			
5341	Northeast WRF	272A4045.1	276	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	828	8			
5342	Northeast WRF	281A2015.1	24	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	71	8			
5343	Northeast WRF	280B6050.1	260	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	781	8			
5344	Northeast WRF	273A3090.1	241	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	722	8			
5345	Northeast WRF	273A3085.1	300	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	899	8			
5346	Northeast WRF	178A1100.1	330	No	5	2	5x2	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	989	8			6/1/1984
5347	Northeast WRF	233A3020.1	250	No	5	3	5x3	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	750	8			6/1/1979
5348	Northeast WRF	280B6005.1	194	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	583	8			
5349	Northeast WRF	280A4130.1	363	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,090	8			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
5350	Northeast WRF	289B8010.1	71	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	214	8			
5351	Northeast WRF	262B7090.1	23	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	69	8			6/1/1979
5352	Northeast WRF	281A4050.1	190	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	570	8			
5353	Northeast WRF	273A3125.1	302	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	907	8			
5354	Northeast WRF	273A3100.1	97	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	290	8			
5355	Northeast WRF	178A1095.1	368	No	5	2	5x2	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,103	8			6/1/1984
5356	Northeast WRF	279B8015.1	274	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	823	8			
5357	Northeast WRF	280A4055.1	20	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	59	8			
5358	Northeast WRF	221A4010.1	50	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	150	8			
5359	Northeast WRF	271B6002.1	81	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	242	8			
5360	Northeast WRF	273A1065.1	261	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	782	8			
5361	Northeast WRF	273A3035.1	320	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	959	8			
5362	Northeast WRF	273A3080.1	310	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	931	8			
5363	Northeast WRF	273A3060.1	355	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,066	8			
5364	Northeast WRF	178A2010.1	366	No	5	1	5x1	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,098	8			6/1/1984
5365	Northeast WRF	233B5045.1	43	No	5	2	5x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	129	8			6/1/1982
5366	Northeast WRF	233B5055.1	350	No	5	2	5x2	CCTV Short Term	CCTV Short Term	FRP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,051	8			6/1/1979
5367	Northeast WRF	261B7055.1	365	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,095	8			6/1/1961
5368	Northeast WRF	261B8010.1	359	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,078	8			6/1/1963
5369	Northeast WRF	261B8005.1	370	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,110	8			6/1/1963
5370	Northeast WRF	280A4075.1	161	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	483	8			
5371	Northeast WRF	280A4110.1	139	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	418	8			
5372	Northeast WRF	281A3005.1	44	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	132	8			
5373	Northeast WRF	272A4080.1	270	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	809	8			
5374	Northeast WRF	279B8001.1	135	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	404	8			
5375	Northeast WRF	272A2035.1	51	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	154	8			
5376	Northeast WRF	280B6020.1	372	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,116	8			
5377	Northeast WRF	280B8020.1	312	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	936	8			
5378	Northeast WRF	280B8005.1	40	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	120	8			
5379	Northeast WRF	280B8015.1	203	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	608	8			
5380	Northeast WRF	280A4135.1	40	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	120	8			
5381	Northeast WRF	280A4120.1	464	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,393	8			
5382	Northeast WRF	280B5165.1	304	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	912	8			
5383	Northeast WRF	261B8015.1	363	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,090	8			6/1/1963
5384	Northeast WRF	281B5040.1	214	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	643	8			
5385	Northeast WRF	281B8115.1	39	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	118	8			
5386	Northeast WRF	273A3030.1	162	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	486	8			
5387	Northeast WRF	280B5140.1	113	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	340	8			
5388	Northeast WRF	290A1045.1	269	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	808	8			
5389	Northeast WRF	290A1040.1	117	No	4	3	4x3	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	350	8			
5390	Northeast WRF	289B7040.1	423	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,270	8			
5391	Northeast WRF	280B8025.1	379	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,138	8			
5392	Northeast WRF	280B8040.1	393	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,180	8			
5393	Northeast WRF	280B6060.1	249	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	746	8			
5394	Northeast WRF	280B6075.1	48	No	4	2	4x2	CCTV Short Term	CCTV Short Term	XXX		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	144	8			
5395	Northeast WRF	280B6030.1	403	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	1,210	8			
5396	Northeast WRF	280B6100.1	94	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	283	8			
5397	Northeast WRF	280B6025.1	206	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	619	8			
5398	Northeast WRF	280B6110.1	149	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	448	8			
5399	Northeast WRF	280B6065.1	277	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	831	8			
5400	Northeast WRF	280B6040.1	161	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	484	8			
5401	Northeast WRF	280B6080.1	136	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	408	8			
5402	Northeast WRF	280B6090.1	117	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	350	8			
5403	Northeast WRF	234A1040.1	125	No	5	3	5x3	CCTV Short Term	CCTV Short Term	PVC		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	375	8			6/1/1977
5404	Northeast WRF	262B9010.1	70	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	210	8			6/1/1971
5405	Northeast WRF	262B9015.1	53	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	160	8	S LAGOON CIR	2023	6/1/1974
5406	Northeast WRF	279B9080.1	27	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	82	8			
5407	Northeast WRF	221A3065.1	145	No	4	3	4x3	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	436	8			
5408	Northeast WRF	221A3090.1	41	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	123	8			
5409	Northeast WRF	280B1125.1	177	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	530	8			
5410	Northeast WRF	281A2003.1	165	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	495	8			
5411	Northeast WRF	281B4005.2	36	No	4	2	4x2	CCTV Short Term	CCTV Short Term	VCP		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	107	8			6/1/1968
5412	Northeast WRF	273B6120.3	123	No	4	4	4x4	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	370	8	FAIRWOOD AVE	2020	6/1/1972
5413	Northeast WRF	282B5005.3	77	No	4	3	4x3	CCTV Short Term	CCTV Short Term	CAS		(GravityMain.COND_TT] >= (4) is Yes	N-Y	1	230	8	PARK TRAIL LN	2020	
5414	Marshall Street WRF	294A2060.1	101	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	303	10			6/1/1996
5415	Marshall Street WRF	249A4030.1	288	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	864	10			6/7/2008
5416	Marshall Street WRF	285A3040.1	115	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	345	15			
5417	Marshall Street WRF	285A3050.1	231	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	693	12			
5418	Marshall Street WRF	251B8120.1	311	No	1	4	1x4	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	933	18			
5419	Marshall Street WRF	296A1035.1	18	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	55	6			8/30/2005
5420	Marshall Street WRF	277B8085.1	49	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	146	15	JONES ST	2018	
5421	Marshall Street WRF	287B7120.1	38	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	115	10			
5422	Marshall Street WRF	287B8165.1	135	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	404	24			
5423	Marshall Street WRF	270A3045.1	291	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	872	12	SHERWOOD ST	2018	6/1/1995
5424	Marshall Street WRF	242A1140.1	237	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	710	10			6/1/1985
5425	Marshall Street WRF	270A2125.1	103	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	308	12			6/1/1995
5426	Marshall Street WRF	294A2070.1	317	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	950	15			6/1/1973
5427	Marshall Street WRF	303B7040.1	339	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,016	15			6/1/1973
5428	Marshall Street WRF	249A3090.1	23	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	68	10	LANTANA AVE	2021	
5429	Marshall Street WRF	278B8020.1	158	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	474	10			
5430	Marshall Street WRF	278B8010.1	23	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	68	10			
5431	Marshall Street WRF	269A3095.1	57	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	171	24			5/1/2004
5432	Marshall Street WRF	270A2110.1	92	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	277	12			6/1/1995
5433	Marshall Street WRF	270A4105.1	117	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	351	12	FLAGLER DR	2018	6/1/1995
5434	Marshall Street WRF	242A2010.1	183	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	548	10			6/1/1985
5435	Marshall Street WRF	242A2020.1	146	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	439	10			6/1/1985
5436	Marshall Street WRF	319B5005.1	298	No	2	4	2x4	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	895	16			6/1/1973
5437	Marshall Street WRF	242A4030.1	72	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	217	6			6/1/1975
5438	Marshall Street WRF	278B8025.1	70	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	210	10			
5439	Marshall Street WRF	303B6020.1	299	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	898	15			6/1/1973
5440	Marshall Street WRF	260B7020.1	88	No	1	4	1x4	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	264	18			
5441	Marshall Street WRF	242A1110.1	144	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	432	10			6/1/1985
5442	Marshall Street WRF	253A2045.1	74	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	223	10			6/1/1961
5443	Marshall Street WRF	278A1090.1	23	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	69	18			
5444	Marshall Street WRF	311B7005.1	439	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,316	15			6/1/1973
5445	Marshall Street WRF	294A2045.1	328	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	985	15			6/1/1973
5446	Marshall Street WRF	270A2005.1	82	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	247	6			
5447	Marshall Street WRF	269B7060.1	127	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	380	10			6/1/1987
5448	Marshall Street WRF	278B8030.1	164	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	492	10			
5449	Marshall Street WRF	296B5055.1	200	No	3	4	3x4	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	599	24			
5450	Marshall Street WRF	306B5015.1	40	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	120	2			
5451	Marshall Street WRF	270A4130.1	88	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	264	12	FLAGLER DR	2018	6/1/1995
5452	Marshall Street WRF	279A1005.1	24	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	72	12			6/1/1995
5453	Marshall Street WRF	270A3030.1	300	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	899	12	CROWN ST	2018	6/1/1995
5454	Marshall Street WRF	242A1115.1	250	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	749	10			6/1/1985
5455	Marshall Street WRF	303B5010.1	361	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,084	15			6/1/1973
5456	Marshall Street WRF	311B6045.1	321	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	964	15			6/1/1973
5457	Marshall Street WRF	252B7030.1	289	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	867	10			6/1/1970
5458	Marshall Street WRF	278B7055.1	44	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	132	10			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
5459	Marshall Street WRF	270A3020.1	172	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	515	12	SCOTT ST	2018	6/1/1995
5460	Marshall Street WRF	296B5200.1	36	No	2	4	2x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	107	12			
5461	Marshall Street WRF	303B7035.1	206	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	618	15			6/1/1973
5462	Marshall Street WRF	303B6045.1	191	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	574	15			6/1/1973
5463	Marshall Street WRF	311B7010.1	148	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	445	15			6/1/1973
5464	Marshall Street WRF	311B8005.1	259	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	776	15			6/1/1973
5465	Marshall Street WRF	278A2160.1	217	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	650	6	JONES ST	2018	
5466	Marshall Street WRF	303B6010.1	88	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	264	15			6/1/1973
5467	Marshall Street WRF	303B5005.1	298	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	895	15			6/1/1973
5468	Marshall Street WRF	287B8150.1	118	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	354	6			
5469	Marshall Street WRF	251B8125.1	324	No	1	4	1x4	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	972	18	KINGS HWY	2019	
5470	Marshall Street WRF	251B8040.1	113	No	3	4	3x4	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	339	14	KINGS HWY	2019	6/1/1965
5471	Marshall Street WRF	269B7065.1	147	No	1	2	1x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	440	10			6/1/1987
5472	Marshall Street WRF	311B7015.1	169	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	507	15			6/1/1973
5473	Marshall Street WRF	270A3075.1	282	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	847	12	FLAGLER DR	2018	6/1/1995
5474	Marshall Street WRF	252B7035.1	267	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	801	10			6/1/1970
5475	Marshall Street WRF	278B8015.1	171	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	513	10			
5476	Marshall Street WRF	286B7220.1	303	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	909	15	PARK ST	2021	
5477	Marshall Street WRF	306A1025.1	56	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	169	6			6/1/1983
5478	Marshall Street WRF	277B8060.1	384	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,151	18	HART ST	2018	
5479	Marshall Street WRF	287B6210.1	67	No	2	4	2x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	202	12			
5480	Marshall Street WRF	242A1130.1	61	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	183	10			6/1/1985
5481	Marshall Street WRF	270A2090.1	180	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	541	12			6/1/1995
5482	Marshall Street WRF	286B7160.1	25	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	76	15			
5483	Marshall Street WRF	286B7155.1	476	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,429	15			
5484	Marshall Street WRF	286B8070.1	132	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	397	12	S GARDEN AVE	2021	
5485	Marshall Street WRF	303B7015.1	191	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	573	15			6/1/1973
5486	Marshall Street WRF	311B6035.1	164	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	493	15			6/1/1973
5487	Marshall Street WRF	269A3110.1	105	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	315	24			5/1/2004
5488	Marshall Street WRF	269A3130.1	50	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	150	24			
5489	Marshall Street WRF	296B5115.2	71	No	2	4	2x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	212	18			
5490	Marshall Street WRF	242A2030.1	57	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	171	10			6/1/1984
5491	Marshall Street WRF	242A2050.1	340	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,020	10			6/1/1984
5492	Marshall Street WRF	251B6040.1	316	No	1	4	1x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	948	10			2/12/2016
5493	Marshall Street WRF	269A3115.1	25	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	75	24			5/1/2004
5494	Marshall Street WRF	296B6005.1	50	No	2	4	2x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	150	12			
5495	Marshall Street WRF	270A4095.1	140	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	421	12	FLAGLER DR	2018	6/1/1995
5496	Marshall Street WRF	279A3045.1	353	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,058	15			6/1/1983
5497	Marshall Street WRF	242A1090.1	345	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,036	10			6/1/1985
5498	Marshall Street WRF	242A1125.1	135	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	404	10			6/1/1985
5499	Marshall Street WRF	242A2065.1	290	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	870	10			6/1/1984
5500	Marshall Street WRF	287B8140.1	246	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	738	6			
5501	Marshall Street WRF	251B5160.2	327	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	982	10			2/12/2016
5502	Marshall Street WRF	311B7030.1	182	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	546	15			6/1/1973
5503	Marshall Street WRF	311B6020.1	59	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	177	15			6/1/1973
5504	Marshall Street WRF	251B8065.1	303	No	1	4	1x4	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	909	18	KINGS HWY	2019	
5505	Marshall Street WRF	251B8115.1	70	No	1	4	1x4	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	211	18			
5506	Marshall Street WRF	242A1070.1	232	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	695	10			6/1/1985
5507	Marshall Street WRF	286B8085.1	324	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	971	10	FRANKLIN ST	2021	6/1/1980
5508	Marshall Street WRF	278A4135.1	338	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,015	24			6/1/1975
5509	Marshall Street WRF	278B6005.1	422	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,267	10			
5510	Marshall Street WRF	249A2010.1	343	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,030	6	ELDORADO AVE	2021	6/1/1963
5511	Marshall Street WRF	269B7135.1	276	No	3	2	3x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	828	10			6/1/1959
5512	Marshall Street WRF	242A1020.1	139	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	418	10			6/1/1985
5513	Marshall Street WRF	251B6060.1	185	No	1	4	1x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	555	10			2/12/2016
5514	Marshall Street WRF	251B8070.1	351	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,054	12			2/12/2016
5515	Marshall Street WRF	303B7005.1	111	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	332	15			6/1/1973
5516	Marshall Street WRF	303B7030.1	389	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,168	15			6/1/1973
5517	Marshall Street WRF	311B7020.1	272	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	817	15			6/1/1973
5518	Marshall Street WRF	311B7035.1	257	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	771	15			6/1/1973
5519	Marshall Street WRF	311B6015.1	276	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	829	15			6/1/1973
5520	Marshall Street WRF	278A1160.1	256	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	768	18	MAPLE ST	2018	
5521	Marshall Street WRF	269A3125.1	35	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	105	30			
5522	Marshall Street WRF	287B8145.1	62	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	187	6			
5523	Marshall Street WRF	319B5020.1	276	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	829	15			6/1/1973
5524	Marshall Street WRF	269B5070.1	44	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	133	24			
5525	Marshall Street WRF	238A4140.1	139	No	2	2	2x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	418	6	BRUCE AVE	2021	2/3/2008
5526	Marshall Street WRF	251B8085.1	319	No	1	4	1x4	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	956	18	KINGS HWY	2019	
5527	Marshall Street WRF	270A3110.1	276	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	828	12	FLAGLER DR	2018	6/1/1995
5528	Marshall Street WRF	270A4005.1	284	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	853	12	FLAGLER DR	2018	6/1/1995
5529	Marshall Street WRF	242A1120.1	189	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	566	10			6/1/1985
5530	Marshall Street WRF	242A2025.1	342	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,027	10			6/1/1985
5531	Marshall Street WRF	242A1025.1	40	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	119	10			6/1/1985
5532	Marshall Street WRF	242A1045.1	147	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	440	10			6/1/1985
5533	Marshall Street WRF	278A3025.1	343	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,030	24			6/1/1975
5534	Marshall Street WRF	251B6085.1	345	No	1	4	1x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,034	12			2/12/2016
5535	Marshall Street WRF	242A1015.1	110	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	330	10			6/1/1985
5536	Marshall Street WRF	269B7130.1	271	No	3	2	3x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	814	10			6/1/1959
5537	Marshall Street WRF	269B7150.1	269	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	807	10			10/23/2010
5538	Marshall Street WRF	269B5105.1	46	No	2	4	2x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	139	18			
5539	Marshall Street WRF	269B7140.1	286	No	2	4	2x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	857	10			10/23/2010
5540	Marshall Street WRF	269B5115.1	82	No	2	5	2x5	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	247	18			
5541	Marshall Street WRF	253A1010.1	348	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,043	10			6/1/1984
5542	Marshall Street WRF	251B9990.1	323	No	1	4	1x4	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	969	12			6/1/2003
5543	Marshall Street WRF	251B9985.1	281	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	844	12			6/1/2003
5544	Marshall Street WRF	252B7005.1	35	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	106	10			
5545	Marshall Street WRF	252B5005.1	237	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	711	10			
5546	Marshall Street WRF	252B7010.1	175	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	526	10			6/1/1970
5547	Marshall Street WRF	252B5025.1	188	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	565	10			
5548	Marshall Street WRF	252B5060.1	106	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	319	10			
5549	Marshall Street WRF	252B5020.1	36	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	109	10			
5550	Marshall Street WRF	252B5045.1	120	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	361	10			
5551	Marshall Street WRF	252B7015.1	162	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	485	10			6/1/1970
5552	Marshall Street WRF	252B7020.1	22	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	66	10			6/1/1970
5553	Marshall Street WRF	252B7025.1	288	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	864	10			6/1/1970
5554	Marshall Street WRF	253A1010.2	175	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	525	10			6/1/1970
5555	Marshall Street WRF	252B5140.1	242	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	725	10			6/1/1986
5556	Marshall Street WRF	260A1005.1	27	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	80	6			
5557	Marshall Street WRF	260B5050.1	99	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	296				
5558	Marshall Street WRF	238A4730.1	59	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	178	6	LAUREL ST	2021	2/3/2008
5559	Marshall Street WRF	286B9000.1	8	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	24	6	N OSCEOLA AVE	2021	
5560	Marshall Street WRF	305A3055.1	79	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	236	15			9/6/2016
5561	Marshall Street WRF	276A2110.1	266	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	797	15			6/1/1969
5562	Marshall Street WRF	276A4060.1	57	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	172	4			12/1/2008
5563	Marshall Street WRF	276A4070.1	34	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	103	6			12/1/2008
5564	Marshall Street WRF	260A3080.1	383	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,148	12			6/1/1980
5565	Marshall Street WRF	305A3025.2	128	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	383	15			
5566	Marshall Street WRF	276A4065.1	39	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	118	10			
5567	Marshall Street WRF	276A2060.1	401	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,203	15			6/1/1969

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
5568	Marshall Street WRF	267A2055.1	67	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	202	4			11/1/1994
5569	Marshall Street WRF	267A2045.1	91	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	273	4			11/1/1994
5570	Marshall Street WRF	267A2060.1	105	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	316	4			11/1/1994
5571	Marshall Street WRF	305A3060.1	97	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	291	15			9/6/2016
5572	Marshall Street WRF	305A3065.1	202	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	606	15			9/6/2016
5573	Marshall Street WRF	305A3070.1	28	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	84	15			9/6/2016
5574	Marshall Street WRF	286B5065.1	406	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,218	12	N OSCEOLA AVE	2021	
5575	Marshall Street WRF	269A2085.1	125	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	376	24			6/1/1972
5576	Marshall Street WRF	269A2080.1	90	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	270	24			6/1/1972
5577	Marshall Street WRF	269A2160.1	207	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	621	24			6/1/1972
5578	Marshall Street WRF	269A4125.1	148	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	445	24			6/1/1972
5579	Marshall Street WRF	269A2155.1	54	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	162	24			6/1/1972
5580	Marshall Street WRF	269A2155.1	124	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	372	24			6/1/1972
5581	Marshall Street WRF	269A2105.1	164	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	491	24			6/1/1972
5582	Marshall Street WRF	295A4015.1	295	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	885	8			9/6/2016
5583	Marshall Street WRF	295A4025.1	84	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	252	10			9/6/2016
5584	Marshall Street WRF	287A4115.1	22	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	66	6			
5585	Marshall Street WRF	286B7180.1	172	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	516	10			6/1/1977
5586	Marshall Street WRF	286B7145.1	56	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	167	15	S GARDEN AVE	2021	
5587	Marshall Street WRF	286B7150.1	353	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,059	15			
5588	Marshall Street WRF	286B7135.1	400	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,201	15	WATTERSON AVE	2021	
5589	Marshall Street WRF	303B6030.1	53	No	2	4	2x4	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	159	24			
5590	Marshall Street WRF	303B6724.1	33	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	99	24			
5591	Marshall Street WRF	314A1015.2	180	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	541	6			
5592	Marshall Street WRF	305B8105.1	57	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	171	6			6/1/1983
5593	Marshall Street WRF	267A1100.1	21	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	64	16	MANDALAY AVE	2021	
5594	Marshall Street WRF	242B7110.1	28	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	83	10			
5595	Marshall Street WRF	260B7015.1	39	No	3	3	3x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	116	18			
5596	Marshall Street WRF	252B5010.1	369	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,106	10			
5597	Marshall Street WRF	260A3100.1	439	No	2	4	2x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,318	12			
5598	Marshall Street WRF	252A4030.1	25	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	76	10	N HIGHLAND AVE	2019	
5599	Marshall Street WRF	295B5099.1	153	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	458	6	HAMILTON CRES	2020	3/6/2003
5600	Marshall Street WRF	295B5100.1	210	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	629	6	HAMILTON CRES	2020	3/6/2003
5601	Marshall Street WRF	260A4080.1	9	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	27	12			6/1/1980
5602	Marshall Street WRF	267A3015.1	131	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	394	15	MANDALAY AVE	2021	
5603	Marshall Street WRF	267A4060.1	5	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	15	6			
5604	Marshall Street WRF	267A4065.1	40	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	120	6			
5605	Marshall Street WRF	267A4070.1	5	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	15	6			
5606	Marshall Street WRF	267A4075.1	20	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	60	6			
5607	Marshall Street WRF	267A4080.1	27	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	81	6			
5608	Marshall Street WRF	267A4085.1	34	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	102	6			
5609	Marshall Street WRF	267A4090.1	42	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	126	6			
5610	Marshall Street WRF	267A4095.1	40	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	120	6			
5611	Marshall Street WRF	267A4100.1	24	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	73	6			
5612	Marshall Street WRF	278A3025.2	319	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	957	24			6/1/1975
5613	Marshall Street WRF	278A1095.1	17	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	51	18			6/1/1975
5614	Marshall Street WRF	278A1065.1	74	No	3	3	3x3	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	222	15			
5615	Marshall Street WRF	286B6067.1	117	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	350	18			
5616	Marshall Street WRF	286B6068.1	31	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	94	18			
5617	Marshall Street WRF	286B6069.1	97	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	291	18			
5618	Marshall Street WRF	286B6137.1	187	No	2	4	2x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	561	18			
5619	Marshall Street WRF	286B6138.1	39	No	2	4	2x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	117	18			
5620	Marshall Street WRF	252A2041.1	144	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	433	18	KINGS HWY	2019	3/1/1983
5621	Marshall Street WRF	251B8056.1	288	No	1	3	1x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	865	15	KINGS HWY	2019	
5622	Marshall Street WRF	260A3101.1	128	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	385	12			
5623	Marshall Street WRF	314A1130.1	21	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	63	6			5/10/2006
5624	Marshall Street WRF	314A1110.3	80	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	241	6			5/10/2006
5625	Marshall Street WRF	267B1000.1	53	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	159				2/3/2008
5626	Marshall Street WRF	267B1000.2	43	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	129	6			11/1/2006
5627	Marshall Street WRF	267B1005.1	39	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	117	4			11/1/2006
5628	Marshall Street WRF	267B1010.1	42	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	126	6			11/1/2006
5629	Marshall Street WRF	267A2013.1	7	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	21	6			
5630	Marshall Street WRF	267A2017.1	7	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	21	6			
5631	Marshall Street WRF	267A2023.1	74	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	222	6			
5632	Marshall Street WRF	267A2027.1	21	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	62	6			
5633	Marshall Street WRF	287B7030.3	4	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	12	12			
5634	Marshall Street WRF	287B7030.2	21	No	1	4	1x4	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	64	12			5/9/2006
5635	Marshall Street WRF	LS-20A.4	211	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	633	4			5/29/2007
5636	Marshall Street WRF	286B5800.1	259	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	778	12			
5637	Marshall Street WRF	276A1305.1	18	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	54	6			3/2/2004
5638	Marshall Street WRF	314A1115.1	18	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	55	6			5/10/2006
5639	Marshall Street WRF	314A1100.1	13	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	38	6			5/10/2006
5640	Marshall Street WRF	314A4150.1	15	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	46	6			5/10/2006
5641	Marshall Street WRF	314A1110.2	52	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	155	6			5/10/2006
5642	Marshall Street WRF	314A1110.1	13	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	39	6			5/10/2006
5643	Marshall Street WRF	314A1105.1	14	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	41	6			5/10/2006
5644	Marshall Street WRF	314A4165.1	17	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	52	6			5/10/2006
5645	Marshall Street WRF	286B1250.1	20	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	60	12	PIERCE ST	2021	7/23/2008
5646	Marshall Street WRF	286B1255.1	141	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	423	12	PIERCE ST	2021	7/23/2008
5647	Marshall Street WRF	267B6155.3	24	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	72	6			
5648	Marshall Street WRF	303B5015.1	53	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	160	24			
5649	Marshall Street WRF	270A4170.2	85	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	255	6			
5650	Marshall Street WRF	279A1070.1	19	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	57	4			
5651	Marshall Street WRF	279A1075.1	74	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	222	4			
5652	Marshall Street WRF	276A1010.2	157	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	472	12			2/27/2009
5653	Marshall Street WRF	276A5005.1	14	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	42	6			2/27/2009
5654	Marshall Street WRF	276A5000.1	146	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	437	10			2/27/2009
5655	Marshall Street WRF	276A5010.1	235	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	704	10			2/27/2009
5656	Marshall Street WRF	276A2150.2	49	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	146	10			2/27/2009
5657	Marshall Street WRF	258A4063.1	83	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	249	6			6/1/1963
5658	Marshall Street WRF	258A4064.1	62	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	186	6			6/1/1963
5659	Marshall Street WRF	276A3110.2	15	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	45	10			12/22/2009
5660	Marshall Street WRF	276A3110.1	5	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	15	10			12/22/2009
5661	Marshall Street WRF	276A3115.2	16	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	48	10			12/22/2009
5662	Marshall Street WRF	269B7155.1	298	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	893	10			11/23/2010
5663	Marshall Street WRF	269B7160.1	342	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,026	10			11/23/2010
5664	Marshall Street WRF	303B6025.2	22	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	66	12			6/1/1986
5665	Marshall Street WRF	260B5018.1	30	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	91				
5666	Marshall Street WRF	260B5043.1	58	No	1	2	1x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	175				
5667	Marshall Street WRF	260B5065.1	80	No	1	2	1x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	241				
5668	Marshall Street WRF	269B7165.1	34	No	1	4	1x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	102	10			10/23/2010
5669	Marshall Street WRF	269B7145.1	93	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	278	10			
5670	Marshall Street WRF	269A3305.1	155	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	466	12			3/16/2011
5671	Marshall Street WRF	269A3300.1	149	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	447	12			3/16/2011
5672	Marshall Street WRF	269A3355.1	35	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	105	6			3/16/2011
5673	Marshall Street WRF	269A3350.1	36	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	108	6			3/16/2011
5674	Marshall Street WRF	269A3345.1	35	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	105	6			3/16/2011
5675	Marshall Street WRF	269A3340.1	35	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	105	6			3/16/2011
5676	Marshall Street WRF	269A3335.1	19	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	56	6			3/16/2011

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
5677	Marshall Street WRF	269A3330.1	22	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	66	6			3/16/2011
5678	Marshall Street WRF	269A3325.1	26	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	77	6			3/16/2011
5679	Marshall Street WRF	269A3320.1	29	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	86	6			3/16/2011
5680	Marshall Street WRF	295B8165.1	22	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	65	6			2/3/2014
5681	Marshall Street WRF	319B5005.4	49	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	146	4			8/7/2014
5682	Marshall Street WRF	319B5005.2	18	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	53	6			8/7/2014
5683	Marshall Street WRF	295B7145.1	61	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	183	6			12/17/2012
5684	Marshall Street WRF	295B7150.1	35	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	105	6			12/17/2012
5685	Marshall Street WRF	279A4200.1	59	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	177	10			10/29/2015
5686	Marshall Street WRF	279A4205.1	358	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,074	10			10/29/2015
5687	Marshall Street WRF	279A4210.1	388	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,164	10			10/29/2015
5688	Marshall Street WRF	279A4215.1	56	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	168	10			10/29/2015
5689	Marshall Street WRF	279A4220.1	61	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	183	10			10/29/2015
5690	Marshall Street WRF	279A4225.1	26	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	77	10			10/29/2015
5691	Marshall Street WRF	279A4230.1	125	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	374	10			10/29/2015
5692	Marshall Street WRF	279A4235.1	143	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	429	10			10/29/2015
5693	Marshall Street WRF	279A4240.1	66	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	198	12			10/29/2015
5694	Marshall Street WRF	279A3110.1	168	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	504	12			10/29/2015
5695	Marshall Street WRF	279A3115.1	73	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	220	12			10/29/2015
5696	Marshall Street WRF	279A3120.1	208	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	624	12			10/29/2015
5697	Marshall Street WRF	279A3125.1	92	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	276	12			10/29/2015
5698	Marshall Street WRF	279A3130.1	264	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	791	12			10/29/2015
5699	Marshall Street WRF	279A3135.1	385	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,156	12			10/29/2015
5700	Marshall Street WRF	279A3140.1	250	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	750	12			10/29/2015
5701	Marshall Street WRF	279A3145.1	147	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	441	12			10/29/2015
5702	Marshall Street WRF	279A3150.1	264	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	791	12			10/29/2015
5703	Marshall Street WRF	279A3155.1	143	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	430	12			10/29/2015
5704	Marshall Street WRF	270A4180.1	250	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	757	15			10/29/2015
5705	Marshall Street WRF	270A4185.1	15	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	45	15			10/29/2015
5706	Marshall Street WRF	276A1015.1	17	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	51	10			12/22/2016
5707	Marshall Street WRF	249A4040.2	36	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	109	8	BAY ESPLANADE	2021	6/1/1983
5708	Marshall Street WRF	258A3040.1	128	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	384	8	BAY ESPLANADE	2021	6/7/2008
5709	Marshall Street WRF	238A2005.1	283	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	850	8	ELDORADO AVE	2021	2/3/2008
5710	Marshall Street WRF	258A4020.1	212	No	1	3	1x3	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	635	8	MANDALAY AVE	2021	2/3/2008
5711	Marshall Street WRF	258A3130.1	214	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	642	8	MANDALAY AVE	2021	2/3/2008
5712	Marshall Street WRF	258A3110.1	42	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	127	8	MANDALAY AVE	2021	2/3/2008
5713	Marshall Street WRF	258A1025.1	298	No	2	3	2x3	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	895	8	MANDALAY AVE	2021	2/3/2008
5714	Marshall Street WRF	267A4020.1	298	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	894	8			
5715	Marshall Street WRF	294A4020.1	210	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	630	8			6/1/1973
5716	Marshall Street WRF	267A4030.1	303	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	909	8			
5717	Marshall Street WRF	238A3005.1	335	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,006	8	BAY ESPLANADE	2021	2/3/2008
5718	Marshall Street WRF	249A3065.1	430	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,291	8	BAY ESPLANADE	2021	6/1/1969
5719	Marshall Street WRF	251A4070.1	280	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	840	8	SEDEEVA ST	2023	6/1/1969
5720	Marshall Street WRF	251A4100.1	180	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	540	8			6/1/1969
5721	Marshall Street WRF	251A4005.1	300	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	900	8	GRANADA ST	2023	6/1/1969
5722	Marshall Street WRF	251A3015.1	244	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	733	8			6/1/1969
5723	Marshall Street WRF	242A4065.1	68	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	205	8			6/1/1975
5724	Marshall Street WRF	242A4090.1	196	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	589	8			6/1/1975
5725	Marshall Street WRF	238A3030.1	181	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	542	8	ELDORADO AVE	2021	2/3/2008
5726	Marshall Street WRF	238A3080.1	296	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	887	8	ELDORADO AVE	2021	2/3/2008
5727	Marshall Street WRF	238A4080.1	159	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	478	8	LAUREL ST	2021	2/3/2008
5728	Marshall Street WRF	294A4015.1	58	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	173	8			6/1/1981
5729	Marshall Street WRF	294A2010.1	28	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	83	8			6/1/1973
5730	Marshall Street WRF	242B8035.1	102	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	305	8			6/1/1981
5731	Marshall Street WRF	251B7060.1	236	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	708	8			2/12/2016
5732	Marshall Street WRF	260B5010.1	185	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	555	8			
5733	Marshall Street WRF	287B8160.1	68	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	205	8			
5734	Marshall Street WRF	296B5060.1	170	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	511	8			
5735	Marshall Street WRF	270A4135.1	252	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	756	8	BONAIR ST	2018	6/1/1971
5736	Marshall Street WRF	270A4090.1	29	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	88	8	FLAGLER DR	2018	
5737	Marshall Street WRF	279A1055.1	46	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	137	8			
5738	Marshall Street WRF	279A2050.1	60	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	180	8	JACARANDA CIR N	2020	
5739	Marshall Street WRF	242A1075.1	119	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	356	8			6/1/1985
5740	Marshall Street WRF	252B5105.1	356	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,067	8			6/1/1970
5741	Marshall Street WRF	261B5080.1	395	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,184	8			6/1/1973
5742	Marshall Street WRF	253A2120.1	150	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	451	8			6/1/1978
5743	Marshall Street WRF	253A2115.1	105	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	316	8			6/1/1978
5744	Marshall Street WRF	306A8000.1	245	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	735	8			6/1/1983
5745	Marshall Street WRF	269A1145.1	44	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	132	8			
5746	Marshall Street WRF	303B6005.1	66	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	198	8			6/1/1986
5747	Marshall Street WRF	251B5045.1	301	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	903	8			2/12/2016
5748	Marshall Street WRF	251B8095.1	281	No	1	4	1x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	843	8			2/12/2016
5749	Marshall Street WRF	251B8090.1	266	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	798	8			2/12/2016
5750	Marshall Street WRF	251B6140.1	367	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,101	8			2/12/2016
5751	Marshall Street WRF	251B6105.1	195	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	585	8			2/12/2016
5752	Marshall Street WRF	242A4060.1	67	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	202	8			6/1/1975
5753	Marshall Street WRF	267B7005.1	396	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,187	8			2/3/2008
5754	Marshall Street WRF	268A1005.1	392	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,177	8			2/3/2008
5755	Marshall Street WRF	268A1030.1	399	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,197	8			2/3/2008
5756	Marshall Street WRF	251A3100.1	203	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	608	8	PORT WAY	2023	6/1/1969
5757	Marshall Street WRF	251A3040.1	347	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,041	8	STARBOARD WAY	2023	6/1/1969
5758	Marshall Street WRF	251B5005.1	113	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	340	8			6/1/1969
5759	Marshall Street WRF	296A4105.1	120	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	361	8			6/1/1999
5760	Marshall Street WRF	251A1025.1	172	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	517	8	MARINE ST	2023	6/1/1969
5761	Marshall Street WRF	269A1030.1	441	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,324	8			
5762	Marshall Street WRF	269B6165.1	224	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	672	8			
5763	Marshall Street WRF	287B5020.1	181	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	542	8	KENWOOD AVE	2021	
5764	Marshall Street WRF	260B5030.1	117	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	352	8			
5765	Marshall Street WRF	296B5095.1	168	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	505	8			
5766	Marshall Street WRF	270A4015.1	145	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	435	8	FLAGLER DR	2018	6/1/1971
5767	Marshall Street WRF	261A3015.1	325	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	976	8			6/1/1973
5768	Marshall Street WRF	261A3065.1	419	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,258	8			6/1/1974
5769	Marshall Street WRF	270A4035.1	299	No	3	1	3x1	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	897	8	LONG ST	2018	6/1/1971
5770	Marshall Street WRF	253A2035.1	171	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	514	8			6/1/1985
5771	Marshall Street WRF	278A4040.1	374	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,121	8	JACKSON RD	2018	6/1/1975
5772	Marshall Street WRF	286B8015.1	320	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	961	8	PIERCE ST	2021	6/1/1980
5773	Marshall Street WRF	305B5190.1	80	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	240	8			
5774	Marshall Street WRF	251B6015.1	371	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,113	8			2/12/2016
5775	Marshall Street WRF	251B6090.1	238	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	714	8			2/12/2016
5776	Marshall Street WRF	251B6025.1	254	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	762	8			2/12/2016
5777	Marshall Street WRF	251B6105.1	269	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	808	8			2/12/2016
5778	Marshall Street WRF	260B5060.1	80	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	239	8			
5779	Marshall Street WRF	303B6040.1	86	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	258	8			
5780	Marshall Street WRF	249A3005.1	251	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	754	8	GUAVA ST	2021	2/3/2008
5781	Marshall Street WRF	238A4035.1	28	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	83	8	NARCISSUS AVE	2021	2/3/2008
5782	Marshall Street WRF	258A4010.1	257	No	1	3	1x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	770	8			6/1/1963
5783	Marshall Street WRF	306B6095.1	208	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	624	8			6/1/1971
5784	Marshall Street WRF	286B7125.1	44	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	132	8			6/1/1984
5785	Marshall Street WRF	287A1010.1	173	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	518	8	GROVE ST	2021	

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
5786	Marshall Street WRF	286B6100.1	160	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	480	8			
5787	Marshall Street WRF	251A3045.1	254	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	763	8	BROADWAY	2023	6/1/1969
5788	Marshall Street WRF	251A3090.1	225	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	675	8	BROADWAY	2023	6/1/1969
5789	Marshall Street WRF	251A4095.1	170	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	511	8	SPRINGTIME AVE	2023	6/1/1969
5790	Marshall Street WRF	251A3070.1	309	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	927	8	PORT WAY	2023	6/1/1969
5791	Marshall Street WRF	296A4155.1	300	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	900	8			6/1/1999
5792	Marshall Street WRF	269B6110.1	357	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,071	8			6/1/1972
5793	Marshall Street WRF	269B5025.1	253	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	758	8			11/23/2010
5794	Marshall Street WRF	260B5025.1	169	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	507	8			
5795	Marshall Street WRF	270A2080.1	128	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	384	8			6/1/1971
5796	Marshall Street WRF	242A1035.1	229	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	688	8			6/1/1985
5797	Marshall Street WRF	253A2125.1	73	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	219	8			6/1/1978
5798	Marshall Street WRF	242B7025.1	185	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	554	8			6/1/1986
5799	Marshall Street WRF	251A3145.1	19	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	58	8	GRANADA ST	2023	6/1/1969
5800	Marshall Street WRF	270B6100.1	23	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	70	8			6/1/1972
5801	Marshall Street WRF	249A4130.1	95	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	284	8	BAY ESPLANADE	2021	6/1/1983
5802	Marshall Street WRF	258A3010.1	25	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	76	8	BAY ESPLANADE	2021	6/1/1983
5803	Marshall Street WRF	279A1040.1	260	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	780	8			
5804	Marshall Street WRF	251A3025.1	281	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	843	8			6/1/1969
5805	Marshall Street WRF	260A2030.1	331	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	994	8	APACHE TRL	2022	
5806	Marshall Street WRF	260A4045.1	255	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	765	8			
5807	Marshall Street WRF	261B5055.1	399	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,198	8			6/1/1973
5808	Marshall Street WRF	261B6070.1	265	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	795	8			1/1/1973
5809	Marshall Street WRF	238A4155.1	167	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	502	8	NARCISSUS AVE	2021	2/3/2008
5810	Marshall Street WRF	238A4010.1	119	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	357	8	MANDALAY AVE	2021	2/3/2008
5811	Marshall Street WRF	258A3025.1	267	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	801	8	BRUCE AVE	2021	6/7/2008
5812	Marshall Street WRF	269B7005.1	321	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	963	8			6/1/1981
5813	Marshall Street WRF	270A3080.1	28	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	83	8	FLAGLER DR	2018	
5814	Marshall Street WRF	261A3010.1	133	No	1	2	1x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	399	8			6/1/1973
5815	Marshall Street WRF	261B5040.1	398	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,194	8			6/1/1973
5816	Marshall Street WRF	261A3105.1	321	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	962	8			6/1/1973
5817	Marshall Street WRF	242A1050.1	324	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	971	8			6/1/1985
5818	Marshall Street WRF	242A2080.1	147	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	442	8			6/1/1970
5819	Marshall Street WRF	252B5015.1	204	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	612	8			6/1/1978
5820	Marshall Street WRF	242A4025.1	143	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	428	8			6/1/1975
5821	Marshall Street WRF	253A3055.1	300	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	899	8			6/1/1973
5822	Marshall Street WRF	242B7085.1	280	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	841	8			6/1/1986
5823	Marshall Street WRF	242B7060.1	161	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	484	8			6/1/1983
5824	Marshall Street WRF	242B7095.1	404	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,211	8			6/1/1983
5825	Marshall Street WRF	242B8030.1	356	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,068	8			6/1/1981
5826	Marshall Street WRF	242B7050.1	341	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,024	8			6/1/1986
5827	Marshall Street WRF	295B8045.1	22	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	67	8			1/1/1990
5828	Marshall Street WRF	305B5205.1	67	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	201	8			
5829	Marshall Street WRF	305B5195.1	100	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	300	8			
5830	Marshall Street WRF	296A3025.1	157	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	471	8			
5831	Marshall Street WRF	251B5040.1	313	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	939	8			2/12/2016
5832	Marshall Street WRF	251B7210.1	144	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	432	8			2/12/2016
5833	Marshall Street WRF	251B6075.1	252	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	756	8			2/12/2016
5834	Marshall Street WRF	279B6090.1	110	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	330	8			6/1/1963
5835	Marshall Street WRF	249A4085.1	88	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	264	8	BAY ESPLANADE	2021	6/1/1983
5836	Marshall Street WRF	238A3010.1	234	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	701	8	ELDORADO AVE	2021	2/3/2008
5837	Marshall Street WRF	258A4040.1	180	No	2	3	2x3	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	541	8			6/7/2008
5838	Marshall Street WRF	267B7025.1	398	No	2	2	2x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,194	8			2/3/2008
5839	Marshall Street WRF	267B7010.1	320	No	2	2	2x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	961	8			2/3/2008
5840	Marshall Street WRF	270A1075.1	223	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	668	8			
5841	Marshall Street WRF	251B5035.1	304	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	912	8			2/12/2016
5842	Marshall Street WRF	251B6160.1	358	No	1	4	1x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,073	8			2/12/2016
5843	Marshall Street WRF	251B6055.1	386	No	1	4	1x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,158	8			2/12/2016
5844	Marshall Street WRF	294A2035.1	59	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	176	8			
5845	Marshall Street WRF	267B7065.1	391	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,172	8			2/3/2008
5846	Marshall Street WRF	268A2030.1	283	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	848	8			2/3/2008
5847	Marshall Street WRF	251A3065.1	223	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	669	8	BROADWAY	2023	6/1/1969
5848	Marshall Street WRF	251A3115.1	249	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	747	8	PLAZA DOLORES	2023	6/1/1969
5849	Marshall Street WRF	269A1170.1	226	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	679	8			
5850	Marshall Street WRF	306A1080.1	321	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	962	8			6/1/1983
5851	Marshall Street WRF	269B7075.1	270	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	809	8			
5852	Marshall Street WRF	269B8025.1	99	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	298	8			11/23/2010
5853	Marshall Street WRF	269B6095.1	35	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	106	8			
5854	Marshall Street WRF	260B5005.1	30	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	91	8			
5855	Marshall Street WRF	279A4095.1	494	No	3	2	3x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,483	8			
5856	Marshall Street WRF	261A4185.1	22	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	66	8			
5857	Marshall Street WRF	261B5035.1	397	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,192	8			6/1/1973
5858	Marshall Street WRF	253B5025.1	159	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	478	8			6/1/1979
5859	Marshall Street WRF	253A3090.1	330	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	991	8			6/1/1973
5860	Marshall Street WRF	242B7055.1	155	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	466	8			6/1/1983
5861	Marshall Street WRF	267A3005.1	91	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	273	8	MANDALAY AVE	2021	
5862	Marshall Street WRF	319B7005.1	577	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,732	8			
5863	Marshall Street WRF	319B5010.1	55	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	164	8			6/1/1973
5864	Marshall Street WRF	319B5025.1	272	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	817	8			6/1/1986
5865	Marshall Street WRF	268A1015.1	396	No	2	2	2x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,189	8			2/3/2008
5866	Marshall Street WRF	306B6070.1	114	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	343	8			6/1/1972
5867	Marshall Street WRF	251A3120.1	32	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	96	8	GRANADA ST	2023	6/1/1969
5868	Marshall Street WRF	251B6010.1	162	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	486	8	IVA ST	2023	6/1/1969
5869	Marshall Street WRF	270A2120.1	506	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,518	8			6/1/1965
5870	Marshall Street WRF	287B8070.1	110	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	329	8			1/1/1999
5871	Marshall Street WRF	251B5055.1	308	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	924	8			2/12/2016
5872	Marshall Street WRF	251B6020.1	291	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	873	8			2/12/2016
5873	Marshall Street WRF	251B6150.1	327	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	981	8			2/12/2016
5874	Marshall Street WRF	251B6155.1	362	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,086	8			2/12/2016
5875	Marshall Street WRF	261B5020.1	259	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	778	8			6/1/1973
5876	Marshall Street WRF	270A3125.1	364	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,091	8	FLAGLER DR	2018	
5877	Marshall Street WRF	242A1040.1	168	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	503	8			6/1/1985
5878	Marshall Street WRF	242A1100.1	187	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	560	8			6/1/1985
5879	Marshall Street WRF	261B5090.1	391	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,172	8			6/1/1973
5880	Marshall Street WRF	296B5100.1	19	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	57	8			
5881	Marshall Street WRF	261A3005.1	70	No	1	3	1x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	211	8			6/1/1973
5882	Marshall Street WRF	279A4005.1	299	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	898	8			
5883	Marshall Street WRF	288A3010.1	576	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,728	8			
5884	Marshall Street WRF	270B6105.1	33	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	98	8			6/1/1972
5885	Marshall Street WRF	279B6025.1	381	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,144	8			6/1/1963
5886	Marshall Street WRF	261A4190.1	95	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	285	8			
5887	Marshall Street WRF	279A3070.1	148	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	445	8			
5888	Marshall Street WRF	279A2075.1	178	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	535	8	JACARANDA CIR N	2020	
5889	Marshall Street WRF	253A2075.1	154	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	462	8			6/1/1978
5890	Marshall Street WRF	242B7070.1	367	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,102	8			6/1/1986
5891	Marshall Street WRF	295B7140.2	164	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	492	8			
5892	Marshall Street WRF	287A2145.1	9	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	28	8			
5893	Marshall Street WRF	251B7025.1	268	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	804	8			2/12/2016
5894	Marshall Street WRF	251B5095.1	358	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,074	8			2/12/2016

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
5895	Marshall Street WRF	251B5025.1	267	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	801	8			2/12/2016
5896	Marshall Street WRF	251B6050.1	286	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	858	8			2/12/2016
5897	Marshall Street WRF	238A4115.1	145	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	436	8	GUAVA ST	2021	2/3/2008
5898	Marshall Street WRF	249A4010.1	32	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	96	8	NARCISSUS AVE	2021	6/1/1983
5899	Marshall Street WRF	238A4075.1	205	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	614	8	MANDALAY AVE	2021	2/3/2008
5900	Marshall Street WRF	251A2005.1	58	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	174	8	CHARLES ST	2023	6/7/2008
5901	Marshall Street WRF	306A1035.1	165	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	495	8			6/1/1983
5902	Marshall Street WRF	305B8020.1	294	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	882	8			
5903	Marshall Street WRF	251B5075.1	40	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	121	8	PORT WAY	2023	6/1/1969
5904	Marshall Street WRF	306B6065.1	97	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	290	8			6/1/1972
5905	Marshall Street WRF	287B8040.1	27	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	81	8			
5906	Marshall Street WRF	269B6050.1	45	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	134	8			6/1/1972
5907	Marshall Street WRF	269B5080.1	66	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	199	8			11/23/2010
5908	Marshall Street WRF	269B7010.1	218	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	654	8			6/1/1981
5909	Marshall Street WRF	261B5060.1	385	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,155	8			6/1/1973
5910	Marshall Street WRF	261B6010.1	383	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,149	8			1/1/1973
5911	Marshall Street WRF	270A3090.1	220	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	661	8	WOOD AVE	2018	
5912	Marshall Street WRF	279B6085.1	179	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	536	8			6/1/1963
5913	Marshall Street WRF	279A2090.1	272	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	815	8	MARIVA AVE	2020	
5914	Marshall Street WRF	270B7100.1	200	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	600	8			
5915	Marshall Street WRF	270B8005.1	150	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	450	8			
5916	Marshall Street WRF	261B5025.1	55	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	165	8			6/1/1973
5917	Marshall Street WRF	242A4050.1	149	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	447	8			6/1/1975
5918	Marshall Street WRF	253A3120.1	130	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	389	8			6/1/1974
5919	Marshall Street WRF	295B8050.1	18	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	54	8			1/1/1990
5920	Marshall Street WRF	270A4050.1	157	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	470	8	FLAGLER DR	2018	
5921	Marshall Street WRF	251B6100.2	139	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	416	8			6/1/1969
5922	Marshall Street WRF	270B8025.1	137	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	411	8			
5923	Marshall Street WRF	251B7090.1	315	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	944	8			2/12/2016
5924	Marshall Street WRF	251B6080.1	236	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	707	8			2/12/2016
5925	Marshall Street WRF	303B6015.1	72	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	215	8			6/1/1986
5926	Marshall Street WRF	238A3090.1	172	No	2	2	2x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	516	8	ISLAND DR	2021	2/3/2008
5927	Marshall Street WRF	267A3040.1	242	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	726	8			12/28/2016
5928	Marshall Street WRF	267B8025.1	348	No	2	2	2x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,045	8			2/3/2008
5929	Marshall Street WRF	278A2125.1	91	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	272	8	JONES ST	2018	
5930	Marshall Street WRF	295B8070.1	20	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	60	8			6/1/1969
5931	Marshall Street WRF	295B7095.1	112	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	335	8			
5932	Marshall Street WRF	251A4020.1	20	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	61	8	IVA ST	2023	6/1/1969
5933	Marshall Street WRF	270A2115.1	422	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,266	8			6/1/1965
5934	Marshall Street WRF	260B7010.1	281	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	842	8			
5935	Marshall Street WRF	269B6085.1	55	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	165	8			
5936	Marshall Street WRF	270A4010.1	26	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	78	8	FLAGLER DR	2018	
5937	Marshall Street WRF	261A3045.1	395	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,184	8			6/1/1974
5938	Marshall Street WRF	279A2095.1	56	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	168	8	JACARANDA CIR S	2020	
5939	Marshall Street WRF	279A2040.1	229	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	686	8	MAPLE ST	2020	6/1/1984
5940	Marshall Street WRF	242B8005.1	110	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	331	8			6/1/1981
5941	Marshall Street WRF	242B7080.1	265	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	794	8			6/1/1986
5942	Marshall Street WRF	296A3030.1	15	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	45	8			
5943	Marshall Street WRF	251B6045.2	168	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	504	8	SEDEEVA ST	2023	6/1/1969
5944	Marshall Street WRF	303B6025.1	77	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	230	8			6/1/1986
5945	Marshall Street WRF	249A3125.1	82	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	246	8	NARCISSUS AVE	2021	6/1/1983
5946	Marshall Street WRF	249A4115.1	156	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	468	8	BAY ESPLANADE	2021	6/1/1983
5947	Marshall Street WRF	305B8030.1	22	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	67	8			
5948	Marshall Street WRF	251A3010.1	199	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	596	8	BROADWAY	2023	6/1/1969
5949	Marshall Street WRF	296A4185.1	302	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	907	8			6/1/1999
5950	Marshall Street WRF	260A2075.1	74	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	223	8	APACHE TRL	2022	
5951	Marshall Street WRF	287A1075.1	275	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	825	8	BOOTH AVE	2021	
5952	Marshall Street WRF	269B7020.1	37	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	112	8			6/1/1981
5953	Marshall Street WRF	279A2150.1	138	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	415	8	ORANGEVIEW AVE	2020	
5954	Marshall Street WRF	269B5085.1	80	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	241	8			11/23/2010
5955	Marshall Street WRF	249A4065.1	333	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	999	8	LANTANA AVE	2021	6/7/2008
5956	Marshall Street WRF	258A4030.1	308	No	1	3	1x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	925	8			6/1/1963
5957	Marshall Street WRF	238A4040.1	246	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	737	8	JUNIPER ST	2021	2/3/2008
5958	Marshall Street WRF	267A2021.1	200	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	601	8			6/1/2000
5959	Marshall Street WRF	251B5015.1	400	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,200	8			2/12/2016
5960	Marshall Street WRF	251B5060.1	310	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	930	8			2/12/2016
5961	Marshall Street WRF	251B5120.1	160	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	481	8			2/12/2016
5962	Marshall Street WRF	251B5085.1	332	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	996	8			2/12/2016
5963	Marshall Street WRF	261B5015.1	270	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	809	8			6/1/1973
5964	Marshall Street WRF	261B5070.1	387	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,162	8			6/1/1973
5965	Marshall Street WRF	261B6075.1	258	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	775	8			1/1/1973
5966	Marshall Street WRF	270A3100.1	22	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	65	8			6/1/1970
5967	Marshall Street WRF	270A4125.1	75	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	225	8	WOOD AVE	2018	6/1/1971
5968	Marshall Street WRF	279A2085.1	176	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	528	8	JACARANDA CIR S	2020	
5969	Marshall Street WRF	242A1060.1	153	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	458	8			6/1/1985
5970	Marshall Street WRF	242B7105.1	339	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,016	8			6/1/1983
5971	Marshall Street WRF	242B8060.1	107	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	322	8			6/1/1986
5972	Marshall Street WRF	242B7100.1	384	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,152	8			6/1/1983
5973	Marshall Street WRF	278A1130.1	20	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	59	8			6/1/1975
5974	Marshall Street WRF	249A4015.1	56	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	167	8	NARCISSUS AVE	2021	6/1/1983
5975	Marshall Street WRF	258A3005.1	68	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	204	8	BAY ESPLANADE	2021	6/1/1983
5976	Marshall Street WRF	287A1030.1	447	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,341	8	GROVE ST	2021	
5977	Marshall Street WRF	305B7040.1	441	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,324	8			6/1/1983
5978	Marshall Street WRF	269B6135.1	349	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,046	8			6/1/1972
5979	Marshall Street WRF	261A3055.1	313	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	938	8			6/1/1976
5980	Marshall Street WRF	261B6050.1	412	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,235	8			1/1/1973
5981	Marshall Street WRF	261A4160.1	122	No	1	2	1x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	366	8			
5982	Marshall Street WRF	261A4165.1	63	No	1	2	1x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	188	8			
5983	Marshall Street WRF	249A3055.1	280	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	840	8	MANDALAY AVE	2021	6/7/2008
5984	Marshall Street WRF	258A3125.1	132	No	1	3	1x3	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	396	8			2/3/2008
5985	Marshall Street WRF	251A3035.1	283	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	849	8	STARBOARD WAY	2023	6/1/1969
5986	Marshall Street WRF	306A3010.1	133	No	2	2	2x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	400	8			6/1/1999
5987	Marshall Street WRF	269B8005.1	254	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	763	8			11/23/2010
5988	Marshall Street WRF	270A1095.1	265	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	795	8			
5989	Marshall Street WRF	260B6020.1	11	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	33	8			6/1/1974
5990	Marshall Street WRF	260B5015.1	109	No	2	4	2x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	328	8			
5991	Marshall Street WRF	260B5020.1	85	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	256	8			
5992	Marshall Street WRF	287B6185.1	35	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	104	8			
5993	Marshall Street WRF	296B5065.1	19	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	58	8			
5994	Marshall Street WRF	260B7005.1	283	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	850	8			
5995	Marshall Street WRF	270B6075.1	221	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	664	8	BONAIR ST	2018	6/1/1971
5996	Marshall Street WRF	261A2060.1	249	No	1	2	1x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	746	8			6/1/1971
5997	Marshall Street WRF	279A2080.1	244	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	733	8	JACARANDA CIR N	2020	
5998	Marshall Street WRF	242A1065.1	305	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	916	8			6/1/1985
5999	Marshall Street WRF	242A2095.1	298	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	895	8			6/1/1970
6000	Marshall Street WRF	242A1105.1	138	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	413	8			6/1/1985
6001	Marshall Street WRF	242A2090.1	301	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	904	8	DAWN DR	2019	6/1/1970
6002	Marshall Street WRF	270B8095.1	270	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	811	8			6/1/1973
6003	Marshall Street WRF	261B5030.1	210	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	631	8			6/1/1973

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
6004	Marshall Street WRF	253A3070.1	325	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	974	8			6/1/1973
6005	Marshall Street WRF	253A3130.1	391	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,174	8			6/1/1974
6006	Marshall Street WRF	242B7035.1	226	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	678	8			6/1/1986
6007	Marshall Street WRF	242B7030.1	256	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	768	8			6/1/1983
6008	Marshall Street WRF	242B8010.1	109	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	328	8			6/1/1981
6009	Marshall Street WRF	242B7065.1	175	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	526	8			6/1/1983
6010	Marshall Street WRF	319B5015.1	29	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	86	8			6/1/1986
6011	Marshall Street WRF	249A4125.1	230	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	690	8	BAY ESPLANADE	2021	6/1/1983
6012	Marshall Street WRF	258A3015.1	210	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	630	8	BAY ESPLANADE	2021	6/7/2008
6013	Marshall Street WRF	238A2015.1	261	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	782	8	ELDORADO AVE	2021	2/3/2008
6014	Marshall Street WRF	249A2005.1	250	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	750	8			6/7/2008
6015	Marshall Street WRF	238A4050.1	291	No	2	2	2x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	874	8	ISLAND DR	2021	2/3/2008
6016	Marshall Street WRF	285A3045.1	49	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	147	8			
6017	Marshall Street WRF	251A4055.1	511	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,533	8	SPRINGTIME AVE	2023	6/1/1969
6018	Marshall Street WRF	295B8065.1	341	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,022	8			6/1/1969
6019	Marshall Street WRF	313B8060.1	23	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	70	8			
6020	Marshall Street WRF	251A4090.1	172	No	3	2	3x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	515	8	OVERBROOK AVE	2023	6/1/1969
6021	Marshall Street WRF	251A4040.1	41	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	124	8	SEDEEVA ST	2023	6/1/1969
6022	Marshall Street WRF	269A3185.1	510	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,531	8			5/1/2004
6023	Marshall Street WRF	251B7010.1	118	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	354	8			2/12/2016
6024	Marshall Street WRF	251B7180.1	53	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	159	8			2/12/2016
6025	Marshall Street WRF	251B5160.1	262	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	786	8			2/12/2016
6026	Marshall Street WRF	251B7150.1	86	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	258	8			2/12/2016
6027	Marshall Street WRF	251B6065.1	289	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	867	8			2/12/2016
6028	Marshall Street WRF	251B6100.1	258	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	774	8			2/12/2016
6029	Marshall Street WRF	242B8055.1	18	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	54	8			6/1/1986
6030	Marshall Street WRF	249A4005.1	236	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	707	8	VERBENA ST	2021	6/1/1983
6031	Marshall Street WRF	249A4055.1	189	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	567	8	NARCISSUS AVE	2021	6/1/1983
6032	Marshall Street WRF	238A3060.1	252	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	756	8	ISLAND DR	2021	2/3/2008
6033	Marshall Street WRF	249A4025.1	402	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,206	8	BOHENIA CIR N	2021	6/7/2008
6034	Marshall Street WRF	258A1030.1	299	No	2	3	2x3	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	897	8	MANDALAY AVE	2021	2/3/2008
6035	Marshall Street WRF	267B8080.1	241	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	722	8			2/3/2008
6036	Marshall Street WRF	306B6045.1	187	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	561	8			6/1/1972
6037	Marshall Street WRF	260A2005.1	203	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	608	8	NOKOMIS ST	2022	
6038	Marshall Street WRF	286B7120.1	126	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	377	8			6/1/1983
6039	Marshall Street WRF	295B8015.1	309	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	927	8			
6040	Marshall Street WRF	305B7035.2	335	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,004	8			6/1/1983
6041	Marshall Street WRF	305B7045.1	143	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	428	8			6/1/1983
6042	Marshall Street WRF	251A4045.1	384	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,153	8	SEDEEVA ST	2023	6/1/1969
6043	Marshall Street WRF	251A4085.1	267	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	802	8			6/1/1969
6044	Marshall Street WRF	251A4035.1	291	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	872	8	IVA ST	2023	6/1/1969
6045	Marshall Street WRF	251A3075.1	326	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	978	8	PORT WAY	2023	6/1/1969
6046	Marshall Street WRF	296A4135.1	113	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	339	8			6/1/1999
6047	Marshall Street WRF	269B8020.1	319	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	956	8			
6048	Marshall Street WRF	287B5075.1	147	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	440	8	GROVE ST	2021	
6049	Marshall Street WRF	260B5070.1	56	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	169	8			
6050	Marshall Street WRF	261B5105.1	460	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,380	8			6/1/1973
6051	Marshall Street WRF	261B6005.1	395	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,184	8			1/1/1973
6052	Marshall Street WRF	270A4025.1	218	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	654	8	WOOD AVE	2018	6/1/1971
6053	Marshall Street WRF	242A1080.1	148	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	444	8			6/1/1985
6054	Marshall Street WRF	242A2075.1	113	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	338	8			6/1/1970
6055	Marshall Street WRF	253A2020.1	266	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	799	8			6/1/1980
6056	Marshall Street WRF	261B5085.1	391	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,173	8			6/1/1973
6057	Marshall Street WRF	242A4075.1	155	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	465	8			6/1/1975
6058	Marshall Street WRF	313B7055.1	53	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	158	8			
6059	Marshall Street WRF	251B5050.1	264	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	792	8			2/12/2016
6060	Marshall Street WRF	251B5065.1	310	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	930	8			2/12/2016
6061	Marshall Street WRF	251B5080.1	123	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	369	8			2/12/2016
6062	Marshall Street WRF	251B5130.1	335	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,006	8			2/12/2016
6063	Marshall Street WRF	251B5120.1	184	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	552	8			2/12/2016
6064	Marshall Street WRF	251B6035.1	212	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	636	8			2/12/2016
6065	Marshall Street WRF	251B8100.1	51	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	153	8			2/12/2016
6066	Marshall Street WRF	251B6125.1	234	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	702	8			2/12/2016
6067	Marshall Street WRF	286B8035.1	97	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	292	8	PIERCE ST	2021	
6068	Marshall Street WRF	261A4040.1	146	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	439	8			
6069	Marshall Street WRF	279A4020.1	279	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	838	8			
6070	Marshall Street WRF	261B5005.1	267	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	801	8			6/1/1973
6071	Marshall Street WRF	270A4140.1	129	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	387	8	BONAIR ST	2018	6/1/1971
6072	Marshall Street WRF	279A2045.1	265	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	796	8	JACARANDA CIR N	2020	
6073	Marshall Street WRF	279A3015.1	387	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,161	8			
6074	Marshall Street WRF	279A3030.1	388	No	3	2	3x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,163	8			
6075	Marshall Street WRF	279B6010.1	357	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,071	8			2/3/2008
6076	Marshall Street WRF	251A1010.1	242	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	726	8			6/1/1969
6077	Marshall Street WRF	251A1035.1	225	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	675	8			6/1/1969
6078	Marshall Street WRF	251A1030.1	232	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	696	8	ANCHORAGE WAY	2023	6/1/1969
6079	Marshall Street WRF	251A1045.1	44	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	133	8	ANCHORAGE WAY	2023	6/1/1969
6080	Marshall Street WRF	251A1065.1	299	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	897	8			6/1/1969
6081	Marshall Street WRF	270A3085.1	276	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	829	8	FLAGLER DR	2018	
6082	Marshall Street WRF	242A2055.1	100	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	299	8			6/1/1972
6083	Marshall Street WRF	253A3115.1	370	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,110	8			6/1/1974
6084	Marshall Street WRF	242B7040.1	169	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	508	8			6/1/1986
6085	Marshall Street WRF	242B8015.1	367	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,100	8			6/1/1981
6086	Marshall Street WRF	242B8070.1	93	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	280	8			6/1/1986
6087	Marshall Street WRF	242B8040.1	124	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	372	8			6/1/1981
6088	Marshall Street WRF	242B8065.1	121	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	364	8			6/1/1986
6089	Marshall Street WRF	251B7045.1	258	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	774	8			2/12/2016
6090	Marshall Street WRF	251B5030.1	314	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	942	8			2/12/2016
6091	Marshall Street WRF	251B5020.1	373	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,119	8			2/12/2016
6092	Marshall Street WRF	251B5105.1	121	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	363	8			2/12/2016
6093	Marshall Street WRF	251B5130.1	91	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	273	8			2/12/2016
6094	Marshall Street WRF	251B5110.1	159	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	477	8			2/12/2016
6095	Marshall Street WRF	251B6045.1	245	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	735	8			2/12/2016
6096	Marshall Street WRF	238A4110.1	307	No	2	2	2x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	920	8	LANTANA AVE	2021	2/3/2008
6097	Marshall Street WRF	238A4150.1	405	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,216	8	LANTANA AVE	2021	2/3/2008
6098	Marshall Street WRF	249A4075.1	28	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	85	8	BAY ESPLANADE	2021	6/1/1983
6099	Marshall Street WRF	249A4140.1	128	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	383	8	BAY ESPLANADE	2021	6/7/2008
6100	Marshall Street WRF	238A4120.1	365	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,094	8	LAUREL ST	2021	2/3/2008
6101	Marshall Street WRF	258A1010.1	296	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	887	8	MANDALAY AVE	2021	6/1/1963
6102	Marshall Street WRF	294A2025.1	267	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	801	8			6/1/1973
6103	Marshall Street WRF	249A3060.1	289	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	866	8	GARDENIA ST	2021	6/7/2008
6104	Marshall Street WRF	267B8005.1	391	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,172	8			2/3/2008
6105	Marshall Street WRF	296A4165.1	302	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	907	8			6/1/1999
6106	Marshall Street WRF	296A3085.1	151	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	453	8			5/1/1986
6107	Marshall Street WRF	296A2105.2	22	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	65	8			
6108	Marshall Street WRF	279A2175.1	168	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	503	8	ORANGEVIEW AVE	2020	
6109	Marshall Street WRF	288A2065.2	280	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	840	8	FRANKLIN ST	2020	
6110	Marshall Street WRF	270A4020.1	292	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	875	8			6/1/1971
6111	Marshall Street WRF	242A1095.1	228	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	685	8			6/1/1985
6112	Marshall Street WRF	242A1085.1	147	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	442	8			6/1/1985

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
6113	Marshall Street WRF	242A2040.1	300	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	900	8			6/1/1972
6114	Marshall Street WRF	242A2070.2	163	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	490	8			6/1/1972
6115	Marshall Street WRF	242B7045.1	170	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	510	8			6/1/1986
6116	Marshall Street WRF	242B8025.1	274	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	822	8			6/1/1981
6117	Marshall Street WRF	242B8045.1	50	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	150	8			6/1/1981
6118	Marshall Street WRF	242B8050.1	15	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	44	8			6/1/1986
6119	Marshall Street WRF	251B7100.1	249	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	747	8			2/12/2016
6120	Marshall Street WRF	260B5055.1	204	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	612	8			
6121	Marshall Street WRF	278A3005.1	61	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	182	8			6/1/1975
6122	Marshall Street WRF	279A3010.1	649	No	3	2	3x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,946	8			
6123	Marshall Street WRF	261A1020.1	133	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	399	8			6/1/1962
6124	Marshall Street WRF	261A1065.1	250	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	749	8			12/10/2012
6125	Marshall Street WRF	261A2015.1	249	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	748	8			6/1/1986
6126	Marshall Street WRF	261A2020.1	274	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	822	8			6/1/1971
6127	Marshall Street WRF	261B6060.1	262	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	786	8			1/1/1973
6128	Marshall Street WRF	238A4055.1	118	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	355	8	JUNIPER ST	2021	2/3/2008
6129	Marshall Street WRF	238A2010.1	251	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	753	8	ELDORADO AVE	2021	2/3/2008
6130	Marshall Street WRF	286B8020.1	36	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	109	8	PIERCE ST	2021	6/1/1986
6131	Marshall Street WRF	269A3120.2	20	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	61	8			5/1/2004
6132	Marshall Street WRF	269B5130.1	55	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	166	8			
6133	Marshall Street WRF	260B7025.1	19	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	56	8			
6134	Marshall Street WRF	270A3115.1	32	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	97	8	FLAGLER DR	2018	
6135	Marshall Street WRF	270A3095.1	298	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	895	8	WOOD AVE	2018	
6136	Marshall Street WRF	279A1035.1	276	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	827	8			
6137	Marshall Street WRF	261A4180.1	300	No	1	2	1x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	901	8			
6138	Marshall Street WRF	242A2070.1	34	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	102	8			6/1/1984
6139	Marshall Street WRF	279B6070.1	242	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	725	8			6/1/1963
6140	Marshall Street WRF	242B8020.1	380	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,139	8			6/1/1981
6141	Marshall Street WRF	303B7010.1	41	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	122	8			
6142	Marshall Street WRF	249A4050.1	115	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	346	8	NARCISSUS AVE	2021	6/1/1983
6143	Marshall Street WRF	249A4120.1	27	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	81	8	BAY ESPLANADE	2021	6/1/1983
6144	Marshall Street WRF	319B7035.1	139	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	418	8			
6145	Marshall Street WRF	306A3015.1	30	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	91	8			
6146	Marshall Street WRF	251B6135.1	260	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	780	8			2/12/2016
6147	Marshall Street WRF	251B6110.1	199	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	596	8			2/12/2016
6148	Marshall Street WRF	313B8090.1	142	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	426	8			6/1/1970
6149	Marshall Street WRF	249A4035.1	183	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	549	8	NARCISSUS AVE	2021	6/1/1983
6150	Marshall Street WRF	258A3055.1	128	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	385	8	BAY ESPLANADE	2021	6/1/1983
6151	Marshall Street WRF	238A3055.1	219	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	656	8	ELDORADO AVE	2021	2/3/2008
6152	Marshall Street WRF	238A4085.1	155	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	464	8	LAUREL ST	2021	2/3/2008
6153	Marshall Street WRF	249A4155.1	380	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,141	8	JEWEL ST	2021	6/7/2008
6154	Marshall Street WRF	294A4005.1	126	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	377	8			6/1/1973
6155	Marshall Street WRF	277A1015.1	323	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	968	8			2/3/2008
6156	Marshall Street WRF	260A2010.1	224	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	671	8	NOKOMIS ST	2022	
6157	Marshall Street WRF	251B6075.2	86	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	259	8			6/1/1969
6158	Marshall Street WRF	270B7085.1	165	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	496	8	SHERWOOD ST	2018	
6159	Marshall Street WRF	279A2110.1	216	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	647	8	MARIVA AVE	2020	
6160	Marshall Street WRF	238A3020.1	172	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	516	8	NA	2021	2/3/2008
6161	Marshall Street WRF	313B7030.1	258	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	773	8			6/1/1973
6162	Marshall Street WRF	251A3005.1	152	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	457	8	BROADWAY	2023	6/1/1969
6163	Marshall Street WRF	251A3110.1	92	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	276	8	PLAZA DOLORES	2023	6/1/1969
6164	Marshall Street WRF	269A3170.1	444	No	2	3	2x3	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,333	8			2/3/2008
6165	Marshall Street WRF	314B6030.1	282	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	846	8			6/1/1969
6166	Marshall Street WRF	287A3010.1	56	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	167	8			6/1/1975
6167	Marshall Street WRF	306A1085.1	34	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	102	8			6/1/1983
6168	Marshall Street WRF	269B8100.1	201	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	603	8			
6169	Marshall Street WRF	260B6015.1	149	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	446	8			6/1/1974
6170	Marshall Street WRF	269B5065.1	227	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	680	8			11/23/2010
6171	Marshall Street WRF	261B5010.1	301	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	902	8			6/1/1973
6172	Marshall Street WRF	242A1030.1	395	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,186	8			6/1/1985
6173	Marshall Street WRF	313B7065.1	29	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	87	8			6/1/1973
6174	Marshall Street WRF	251B7015.1	325	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	975	8			2/12/2016
6175	Marshall Street WRF	251B7104.1	316	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	948	8			2/12/2016
6176	Marshall Street WRF	251B5075.1	285	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	854	8	PORT WAY	2023	2/12/2016
6177	Marshall Street WRF	251B5010.1	337	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,011	8			2/12/2016
6178	Marshall Street WRF	251B5100.1	260	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	780	8			2/12/2016
6179	Marshall Street WRF	251B6115.1	294	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	882	8			2/12/2016
6180	Marshall Street WRF	294A4010.1	173	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	520	8			6/1/1973
6181	Marshall Street WRF	238A4135.1	192	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	577	8	NARCISSUS AVE	2021	2/3/2008
6182	Marshall Street WRF	314B5005.1	259	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	776	8			6/1/1971
6183	Marshall Street WRF	295B7100.1	178	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	535	8			
6184	Marshall Street WRF	287B6155.1	135	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	406	8			
6185	Marshall Street WRF	270A4060.1	26	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	79	8	FLAGLER DR	2018	
6186	Marshall Street WRF	261B5100.1	438	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,314	8			6/1/1973
6187	Marshall Street WRF	261B6065.1	272	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	815	8			1/1/1973
6188	Marshall Street WRF	279A4100.1	425	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,275	8			
6189	Marshall Street WRF	261A2035.1	181	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	543	8			6/1/1969
6190	Marshall Street WRF	279A2105.1	178	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	535	8	JACARANDA CIR S	2020	
6191	Marshall Street WRF	242A1055.1	305	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	914	8			6/1/1985
6192	Marshall Street WRF	270B7055.1	35	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	106	8	S LEO LN	2018	6/1/1971
6193	Marshall Street WRF	253A3040.1	205	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	616	8			6/1/1973
6194	Marshall Street WRF	242B7075.1	264	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	792	8			6/1/1983
6195	Marshall Street WRF	242B7015.1	255	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	765	8			6/1/1986
6196	Marshall Street WRF	303B7011.2	126	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	379	8			
6197	Marshall Street WRF	261A3090.1	162	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	487	8			6/1/1974
6198	Marshall Street WRF	261A2025.1	264	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	793	8			6/1/1986
6199	Marshall Street WRF	251B7020.1	160	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	480	8			2/12/2016
6200	Marshall Street WRF	251B7035.1	223	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	669	8			2/12/2016
6201	Marshall Street WRF	251B7120.1	43	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	129	8			2/12/2016
6202	Marshall Street WRF	251B7050.1	51	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	153	8			2/12/2016
6203	Marshall Street WRF	251B7190.1	61	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	183	8			2/12/2016
6204	Marshall Street WRF	251B7030.1	250	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	750	8			2/12/2016
6205	Marshall Street WRF	251B5115.1	122	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	366	8			2/12/2016
6206	Marshall Street WRF	251B6030.1	238	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	714	8			2/12/2016
6207	Marshall Street WRF	268B5014.1	18	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	54	8	N OSCEOLA AVE	2021	
6208	Marshall Street WRF	286B5013.1	168	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	505	8	N OSCEOLA AVE	2021	
6209	Marshall Street WRF	270A1090.1	337	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,011	8			6/1/1961
6210	Marshall Street WRF	270A4040.1	151	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	452	8	LONG ST	2018	6/1/1971
6211	Marshall Street WRF	270A3035.1	366	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,097	8	WOOD AVE	2018	2/3/2008
6212	Marshall Street WRF	270A4080.1	245	No	3	2	3x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	735	8	CLARK ST	2018	6/1/1971
6213	Marshall Street WRF	270A4045.1	209	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	628	8	WOOD AVE	2018	6/1/1971
6214	Marshall Street WRF	270A4110.1	26	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	77	8	FLAGLER DR	2018	
6215	Marshall Street WRF	270A4115.1	513	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,538	8	FLAGLER DR	2018	
6216	Marshall Street WRF	269B7040.1	278	No	3	2	3x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	835	8			
6217	Marshall Street WRF	269B7100.1	289	No	3	2	3x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	867	8			
6218	Marshall Street WRF	269B5005.1	99	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	296	8			11/23/2010
6219	Marshall Street WRF	269B5020.1	119	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	357	8			11/23/2010
6220	Marshall Street WRF	269B7035.1	287	No	1	2	1x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	862	8			
6221	Marshall Street WRF	268A2005.1	448	No	2	2	2x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,344	8			2/3/2008

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
6222	Marshall Street WRF	268A1010.1	340	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,021	8			2/3/2008
6223	Marshall Street WRF	268A1020.1	377	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,131	8			2/3/2008
6224	Marshall Street WRF	268A2025.1	264	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	793	8			2/3/2008
6225	Marshall Street WRF	276A4015.1	204	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	613	8			
6226	Marshall Street WRF	286B7025.1	301	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	903	8	GROVE ST	2021	
6227	Marshall Street WRF	242A4115.1	253	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	759	8			6/1/1973
6228	Marshall Street WRF	253A3005.1	62	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	186	8			6/1/1973
6229	Marshall Street WRF	242A4120.1	137	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	411	8			6/1/1973
6230	Marshall Street WRF	253B5050.1	122	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	367	8			6/1/1980
6231	Marshall Street WRF	253B5055.1	86	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	259	8			6/1/1980
6232	Marshall Street WRF	242A4135.1	20	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	59	8			6/1/1973
6233	Marshall Street WRF	242A4130.1	275	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	825	8			6/1/1973
6234	Marshall Street WRF	251B9880.1	163	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	489	8			6/1/2003
6235	Marshall Street WRF	251B7890.1	204	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	612	8			6/1/2003
6236	Marshall Street WRF	251B5365.1	268	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	804	8			6/1/2003
6237	Marshall Street WRF	251B7545.1	82	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	246	8			6/1/2003
6238	Marshall Street WRF	251B3395.1	8	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	24	8			6/1/2003
6239	Marshall Street WRF	252B7055.1	340	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,020	8			6/1/1970
6240	Marshall Street WRF	253A2105.1	174	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	523	8			6/1/1978
6241	Marshall Street WRF	253A2065.1	264	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	793	8			
6242	Marshall Street WRF	252B7040.1	147	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	440	8			6/1/1970
6243	Marshall Street WRF	252B7065.1	371	No	3	1	3x1	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,112	8			6/1/1970
6244	Marshall Street WRF	252B7085.1	403	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,208	8			6/1/1970
6245	Marshall Street WRF	260A2120.1	160	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	481	8	MOHAWK ST	2022	6/1/1987
6246	Marshall Street WRF	260A2110.1	58	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	173	8			6/1/1987
6247	Marshall Street WRF	260A2105.1	400	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,199	8			6/1/1987
6248	Marshall Street WRF	260A2045.1	134	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	402	8	APACHE TRL	2022	6/1/1987
6249	Marshall Street WRF	251A1071.1	206	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	618	8			6/1/1969
6250	Marshall Street WRF	251A3085.1	372	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,116	8			6/1/1969
6251	Marshall Street WRF	251A3060.1	250	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	750	8			6/1/1969
6252	Marshall Street WRF	251A3055.1	160	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	480	8			6/1/1969
6253	Marshall Street WRF	270A2085.1	183	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	548	8			6/1/1971
6254	Marshall Street WRF	270A2105.1	126	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	378	8			6/1/1971
6255	Marshall Street WRF	260A3090.1	161	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	482	8			6/1/1980
6256	Marshall Street WRF	296A4230.1	100	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	300	8			
6257	Marshall Street WRF	296A4225.1	296	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	887	8			
6258	Marshall Street WRF	296A4235.1	299	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	896	8			
6259	Marshall Street WRF	296A4250.1	307	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	920	8			6/1/1983
6260	Marshall Street WRF	296A4220.1	183	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	549	8			
6261	Marshall Street WRF	251A3020.1	319	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	957	8	WILSON BLVD	2023	6/1/1969
6262	Marshall Street WRF	251A3050.1	321	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	963	8	WILSON BLVD	2023	2/3/2008
6263	Marshall Street WRF	251A1020.1	347	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,040	8	MARINE ST	2023	6/1/1969
6264	Marshall Street WRF	251A1050.1	244	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	732	8	WILSON BLVD	2023	6/1/1969
6265	Marshall Street WRF	251A4015.1	253	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	759	8	IVA ST	2023	6/1/1969
6266	Marshall Street WRF	251A4010.1	218	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	654	8	IVA ST	2023	6/1/1969
6267	Marshall Street WRF	253B5045.1	264	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	793	8			6/1/1979
6268	Marshall Street WRF	253B5015.1	377	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,132	8			6/1/1979
6269	Marshall Street WRF	253B5020.1	373	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,118	8			6/1/1979
6270	Marshall Street WRF	253B5040.1	248	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	745	8			6/1/1979
6271	Marshall Street WRF	253B5035.1	260	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	779	8			6/1/1979
6272	Marshall Street WRF	253B5030.1	70	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	211	8			6/1/1979
6273	Marshall Street WRF	253B5075.1	346	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,037	8			6/1/1980
6274	Marshall Street WRF	253B5060.1	154	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	463	8			6/1/1980
6275	Marshall Street WRF	313B8020.1	37	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	110	8			
6276	Marshall Street WRF	260B5040.1	107	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	320	8			
6277	Marshall Street WRF	260B5090.1	421	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,263	8			3/1/1998
6278	Marshall Street WRF	260B5085.1	66	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	199	8			3/1/1998
6279	Marshall Street WRF	261B6125.1	128	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	385	8			6/1/1997
6280	Marshall Street WRF	270B5025.1	98	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	294	8			6/1/1997
6281	Marshall Street WRF	270B5075.1	174	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	523	8	SCOTT ST	2018	
6282	Marshall Street WRF	270B5070.1	102	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	307	8	SCOTT ST	2018	
6283	Marshall Street WRF	270B8060.1	290	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	871	8			6/1/1973
6284	Marshall Street WRF	270B7125.1	35	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	104	8	AMBLE LN	2018	
6285	Marshall Street WRF	270B7050.1	277	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	831	8	S LEO LN	2018	6/1/1971
6286	Marshall Street WRF	270B7130.1	155	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	465	8	AMBLE LN	2018	
6287	Marshall Street WRF	238A4735.1	37	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	111	8	BRUCE AVE	2021	2/3/2008
6288	Marshall Street WRF	260B5035.1	73	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	220	8			
6289	Marshall Street WRF	270B8015.1	269	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	808	8			6/1/1964
6290	Marshall Street WRF	270B8091.1	139	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	418	8	AMBLE LN	2018	6/1/1971
6291	Marshall Street WRF	270B8071.1	150	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	451	8	AMBLE LN	2018	6/1/1971
6292	Marshall Street WRF	270B8045.1	259	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	776	8	AMBLE LN	2018	6/1/1973
6293	Marshall Street WRF	270B6065.1	219	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	656	8			12/1/1984
6294	Marshall Street WRF	270B6095.1	92	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	276	8			6/1/1972
6295	Marshall Street WRF	270A3105.1	139	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	417	8			12/1/1970
6296	Marshall Street WRF	270A1040.1	300	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	901	8			
6297	Marshall Street WRF	268B8165.1	367	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,102	8			
6298	Marshall Street WRF	277B7005.1	469	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,408	8			6/1/1980
6299	Marshall Street WRF	277B6030.1	126	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	378	8	JONES ST	2018	11/21/2008
6300	Marshall Street WRF	287A2195.1	199	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	597	8	PARK ST	2021	
6301	Marshall Street WRF	287A2200.1	244	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	732	8			
6302	Marshall Street WRF	287A2175.1	50	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	150	8	PARK ST	2021	
6303	Marshall Street WRF	287A3135.1	50	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	150	8			
6304	Marshall Street WRF	319B7010.1	157	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	470	8			
6305	Marshall Street WRF	287A3140.1	154	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	463	8			
6306	Marshall Street WRF	305B6015.1	202	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	606	8			6/1/1978
6307	Marshall Street WRF	305B8025.1	59	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	176	8			
6308	Marshall Street WRF	305B8015.1	139	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	416	8			
6309	Marshall Street WRF	305B8005.1	349	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,048	8			
6310	Marshall Street WRF	285B5015.1	123	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	369	8			
6311	Marshall Street WRF	251B9965.1	118	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	354	8			6/1/2003
6312	Marshall Street WRF	285B5005.1	204	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	613	8			
6313	Marshall Street WRF	285B5021.1	36	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	107	8			
6314	Marshall Street WRF	276A4055.1	165	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	496	8			12/1/2008
6315	Marshall Street WRF	260A3050.1	241	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	722	8			6/1/1980
6316	Marshall Street WRF	260A3020.1	73	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	218	8			6/1/1969
6317	Marshall Street WRF	267A4045.1	125	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	374	8	MANDALAY AVE	2021	
6318	Marshall Street WRF	258A4090.1	92	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	277	8			
6319	Marshall Street WRF	267A4050.1	50	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	150	8			
6320	Marshall Street WRF	276A2035.2	26	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	77	8			
6321	Marshall Street WRF	295B8145.1	140	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	420	8			
6322	Marshall Street WRF	306A1005.2	45	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	136	8			6/1/1983
6323	Marshall Street WRF	286B8196.1	432	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,296	8			
6324	Marshall Street WRF	285B5025.1	157	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	471	8			
6325	Marshall Street WRF	296A4245.1	173	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	519	8			
6326	Marshall Street WRF	305A3020.1	45	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	135	8			9/6/2016
6327	Marshall Street WRF	295A4010.1	326	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	979	8			9/6/2016
6328	Marshall Street WRF	261A4075.1	128	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	383	8			
6329	Marshall Street WRF	313B8145.1	65	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	196	8			6/1/1986
6330	Marshall Street WRF	286B5010.1	361	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,083	8	LAURA ST	2021	

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
6331	Marshall Street WRF	277B6050.1	297	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	891	8	N OSCEOLA AVE	2021	
6332	Marshall Street WRF	286B5035.1	400	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,199	8	LAURA ST	2021	
6333	Marshall Street WRF	286B7075.1	164	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	491	8	LAURA ST	2021	6/1/1977
6334	Marshall Street WRF	286B7100.1	150	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	451	8			6/1/1977
6335	Marshall Street WRF	269A4160.1	210	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	630	8			6/1/1985
6336	Marshall Street WRF	269A4085.1	24	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	71	8			6/1/1985
6337	Marshall Street WRF	277B7010.1	40	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	119	8			
6338	Marshall Street WRF	295B6110.1	257	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	771	8			9/6/2016
6339	Marshall Street WRF	295A4035.1	273	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	819	8			9/6/2016
6340	Marshall Street WRF	276A2130.1	186	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	557	8			12/1/2008
6341	Marshall Street WRF	267B8030.1	365	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,096	8			2/3/2008
6342	Marshall Street WRF	267B8070.1	30	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	89	8			
6343	Marshall Street WRF	267B7090.1	40	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	119	8			
6344	Marshall Street WRF	267B6005.1	139	No	3	3	3x3	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	416	8			
6345	Marshall Street WRF	267B7055.1	338	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,015	8			
6346	Marshall Street WRF	267B6065.1	265	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	796	8			2/3/2008
6347	Marshall Street WRF	267B6045.1	274	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	821	8			2/3/2008
6348	Marshall Street WRF	267B6085.1	241	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	723	8			2/3/2008
6349	Marshall Street WRF	267B6010.1	398	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,194	8			2/3/2008
6350	Marshall Street WRF	267B8020.1	392	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,175	8			2/3/2008
6351	Marshall Street WRF	267B7020.1	353	No	3	3	3x3	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,060	8			
6352	Marshall Street WRF	267B7100.1	420	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,261	8			
6353	Marshall Street WRF	267B8040.1	35	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	104	8			2/3/2008
6354	Marshall Street WRF	287A4110.1	150	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	450	8	GROVE ST	2021	
6355	Marshall Street WRF	287A4105.1	62	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	186	8	GROVE ST	2021	
6356	Marshall Street WRF	253A3035.1	196	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	588	8			6/1/1973
6357	Marshall Street WRF	253A3065.1	302	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	905	8			6/1/1973
6358	Marshall Street WRF	253A3100.1	381	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,144	8			6/1/1973
6359	Marshall Street WRF	253A3125.1	303	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	910	8			6/1/1978
6360	Marshall Street WRF	253A3030.1	135	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	404	8			6/1/1973
6361	Marshall Street WRF	253A3095.1	201	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	604	8			6/1/1978
6362	Marshall Street WRF	253A3110.1	324	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	972	8			6/1/1978
6363	Marshall Street WRF	253A3080.1	325	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	975	8			6/1/1973
6364	Marshall Street WRF	253A3075.1	305	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	916	8			6/1/1973
6365	Marshall Street WRF	253A3010.1	210	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	630	8			6/1/1973
6366	Marshall Street WRF	253A3045.1	269	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	808	8			6/1/1973
6367	Marshall Street WRF	253A3050.1	260	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	780	8			6/1/1973
6368	Marshall Street WRF	253A3015.1	209	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	627	8			6/1/1973
6369	Marshall Street WRF	253A3020.1	210	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	631	8			6/1/1973
6370	Marshall Street WRF	286B7195.1	160	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	480	8	PARK ST	2021	
6371	Marshall Street WRF	306A1010.1	258	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	773	8			6/1/1983
6372	Marshall Street WRF	242A2110.1	20	No	3	3	3x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	60	8			6/1/1970
6373	Marshall Street WRF	242A2105.1	68	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	205	8			6/1/1970
6374	Marshall Street WRF	287A2020.1	211	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	633	8			
6375	Marshall Street WRF	287A5005.1	107	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	321	8			
6376	Marshall Street WRF	242B5190.1	97	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	292	8			6/1/1997
6377	Marshall Street WRF	242B5195.1	132	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	395	8			6/1/1997
6378	Marshall Street WRF	242B7090.1	133	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	398	8			6/1/1983
6379	Marshall Street WRF	242B7115.1	254	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	763	8			6/1/1983
6380	Marshall Street WRF	252A4070.1	315	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	944	8	N HIGHLAND AVE	2019	
6381	Marshall Street WRF	295B5065.1	285	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	854	8	BAY AVE	2020	
6382	Marshall Street WRF	306A3070.1	137	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	410	8			6/1/1999
6383	Marshall Street WRF	270A1085.1	346	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,038	8			6/1/1961
6384	Marshall Street WRF	286B6136.1	142	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	426	8			12/1/1984
6385	Marshall Street WRF	295B1010.1	227	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	682	8			8/30/2005
6386	Marshall Street WRF	295B1020.1	209	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	626	8			8/30/2005
6387	Marshall Street WRF	295B1035.1	297	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	892	8			8/30/2005
6388	Marshall Street WRF	295B1015.1	31	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	93	8			8/30/2005
6389	Marshall Street WRF	295B1025.1	115	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	345	8			8/30/2005
6390	Marshall Street WRF	295B1030.1	74	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	223	8			8/30/2005
6391	Marshall Street WRF	314A4160.1	44	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	132	8			9/26/2006
6392	Marshall Street WRF	276A4065.1	110	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	329	8			8/13/2003
6393	Marshall Street WRF	276A4100.1	34	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	101	8			8/13/2003
6394	Marshall Street WRF	296A4195.2	15	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	45	8			8/30/2005
6395	Marshall Street WRF	314A1125.1	174	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	521	8			2/15/1996
6396	Marshall Street WRF	314A4145.2	119	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	357	8			5/10/2006
6397	Marshall Street WRF	314A4125.1	23	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	68	8			
6398	Marshall Street WRF	276A1105.1	35	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	105	8			8/4/2004
6399	Marshall Street WRF	276A1110.1	111	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	333	8			8/4/2004
6400	Marshall Street WRF	276A1120.1	30	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	90	8			7/10/2006
6401	Marshall Street WRF	276A1125.1	156	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	468	8			7/10/2006
6402	Marshall Street WRF	276A1200.1	26	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	79	8			5/9/2005
6403	Marshall Street WRF	276A1210.1	171	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	514	8			5/9/2005
6404	Marshall Street WRF	276A2170.1	35	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	105	8			4/4/2005
6405	Marshall Street WRF	276A2175.1	40	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	120	8			4/4/2005
6406	Marshall Street WRF	276A2180.1	47	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	141	8			4/4/2005
6407	Marshall Street WRF	276A1310.1	38	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	114	8			3/2/2004
6408	Marshall Street WRF	276A1315.1	43	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	129	8			3/2/2004
6409	Marshall Street WRF	314A4145.1	102	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	306	8			5/10/2006
6410	Marshall Street WRF	267A2341.1	80	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	240	8	MANDALAY AVE	2021	
6411	Marshall Street WRF	267A2342.1	78	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	234	8			
6412	Marshall Street WRF	267A1005.1	101	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	302	8			
6413	Marshall Street WRF	251A7165.1	44	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	133	8			6/1/1969
6414	Marshall Street WRF	242A1145.1	69	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	207	8			
6415	Marshall Street WRF	294A1000.1	306	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	919	8			10/1/2001
6416	Marshall Street WRF	276A2110.2	37	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	110	8			2/27/2009
6417	Marshall Street WRF	276A5015.1	149	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	448	8			2/27/2009
6418	Marshall Street WRF	276A5020.1	53	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	159	8			2/27/2009
6419	Marshall Street WRF	276A1025.1	199	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	597	8			2/27/2009
6420	Marshall Street WRF	267A3010.1	140	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	421	8			4/30/2009
6421	Marshall Street WRF	258A3115.1	42	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	125	8	MANDALAY AVE	2021	2/3/2008
6422	Marshall Street WRF	319B5030.2	22	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	66	8			6/1/1986
6423	Marshall Street WRF	277B6025.1	64	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	192	8			11/21/2008
6424	Marshall Street WRF	277A1035.1	193	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	579	8	N OSCEOLA AVE	2018	11/21/2008
6425	Marshall Street WRF	277B1060.1	83	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	249	8	N OSCEOLA AVE	2018	11/21/2008
6426	Marshall Street WRF	303B6005.2	14	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	43	8			6/1/1986
6427	Marshall Street WRF	276A1060.1	84	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	251	8			2/27/2009
6428	Marshall Street WRF	276A3100.1	124	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	372	8			2/27/2009
6429	Marshall Street WRF	269B5082.1	46	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	139	8			11/23/2010
6430	Marshall Street WRF	260B5018.1	263	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	789	8			3/1/2009
6431	Marshall Street WRF	269A4160.1	277	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	830	8			
6432	Marshall Street WRF	269B8015.1	26	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	78	8			11/23/2010
6433	Marshall Street WRF	269B8013.1	286	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	858	8			11/23/2010
6434	Marshall Street WRF	269B8015.1	143	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	430	8			11/23/2010
6435	Marshall Street WRF	260B5053.1	39	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	118	8			
6436	Marshall Street WRF	261A1047.1	99	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	297	8			12/10/2012
6437	Marshall Street WRF	251B5005.2	89	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	268	8			6/1/1969
6438	Marshall Street WRF	319B5005.3	31	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	92	8			8/7/2014
6439	Marshall Street WRF	295B7140.1	188	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	564	8			12/17/2012

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
6440	Marshall Street WRF	279A4245.1	27	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	81	8			10/29/2015
6441	Marshall Street WRF	279A3025.2	9	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	27	8			10/29/2015
6442	Marshall Street WRF	279A3010.2	10	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	29	8			10/29/2015
6443	Marshall Street WRF	251B5070.1	312	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	936	8			2/12/2016
6444	Marshall Street WRF	251B5090.1	166	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	497	8			2/12/2016
6445	Marshall Street WRF	251B5125.1	86	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	258	8			2/12/2016
6446	Marshall Street WRF	251B5135.1	302	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	906	8			2/12/2016
6447	Marshall Street WRF	251B5155.1	159	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	478	8			2/12/2016
6448	Marshall Street WRF	251B6070.1	57	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	171	8			2/12/2016
6449	Marshall Street WRF	251B6095.1	217	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	651	8			2/12/2016
6450	Marshall Street WRF	251B6120.1	232	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	696	8			2/12/2016
6451	Marshall Street WRF	251B7140.1	190	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	570	8			2/12/2016
6452	Marshall Street WRF	251B7115.1	192	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	576	8			2/12/2016
6453	Marshall Street WRF	251B7118.1	33	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	98	8			2/12/2016
6454	Marshall Street WRF	251B7102.1	109	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	327	8			2/12/2016
6455	Marshall Street WRF	251B7010.1	159	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	478	8			2/12/2016
6456	Marshall Street WRF	251B7070.1	254	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	762	8			2/12/2016
6457	Marshall Street WRF	267A2075.1	122	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	366	8			10/25/2016
6458	Marshall Street WRF	261A4292.1	29	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	87	8			11/22/2016
6459	Marshall Street WRF	261A4290.1	36	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	109	8			11/22/2016
6460	Marshall Street WRF	261A4285.1	353	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,059	8			11/22/2016
6461	Marshall Street WRF	261A4280.1	106	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	318	8			11/22/2016
6462	Marshall Street WRF	267A3075.1	95	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	286	8			12/28/2016
6463	Marshall Street WRF	267A3070.1	44	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	132	8			12/28/2016
6464	Marshall Street WRF	295B6065.1	239	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	717	8			9/6/2016
6465	Marshall Street WRF	252B6140.1	40	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	121	8			5/23/2016
6466	Marshall Street WRF	252B6145.1	76	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	228	8			5/23/2016
6467	Marshall Street WRF	252B6150.1	9	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	26	8			5/23/2016
6468	Marshall Street WRF	295B8012.1	146	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	437	8			
6469	East WRF	300A2070.1	255	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	766	10			6/1/1970
6470	East WRF	317A2020.1	399	No	2	4	2x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,196	10	COUNTRY OAKS LN	2019	5/1/1984
6471	East WRF	317A2005.1	347	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,041	10			6/1/1973
6472	East WRF	300A4105.1	205	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	615	10			6/1/1970
6473	East WRF	292B8010.1	297	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	891	12			
6474	East WRF	314B7080.1	279	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	836	12			6/1/1981
6475	East WRF	306B7200.1	68	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	204	12			6/1/1981
6476	East WRF	292B8020.1	358	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,073	12			
6477	East WRF	308B8145.1	26	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	77	24			6/1/1963
6478	East WRF	308B6120.1	77	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	231	21			6/1/1970
6479	East WRF	291A2086.1	233	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	698	12			6/1/2013
6480	East WRF	310A3010.1	53	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	159	10			6/1/1970
6481	East WRF	300A2055.1	378	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,134	10			6/1/1970
6482	East WRF	318A1035.1	149	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	446	10			
6483	East WRF	300A2065.1	189	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	567	12			6/1/1970
6484	East WRF	306B8015.1	78	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	233	12			6/1/1981
6485	East WRF	300A2060.1	332	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	995	12			6/1/1970
6486	East WRF	310A3020.1	137	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	412	10			2/3/2008
6487	East WRF	310A3015.1	150	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	450	10			2/3/2008
6488	East WRF	300A4095.1	331	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	993	10			6/1/1970
6489	East WRF	292B8005.1	182	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	547	10			
6490	East WRF	300A2040.1	329	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	988	10			6/1/1970
6491	East WRF	317A2015.1	31	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	94	10			6/1/1973
6492	East WRF	290B8060.1	28	No	1	3	1x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	85	12			6/1/2013
6493	East WRF	317A3015.2	211	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	634	20			6/1/1963
6494	East WRF	290B8070.1	89	No	1	3	1x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	266	12			6/1/2013
6495	East WRF	300A2030.1	213	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	639	10			6/1/1970
6496	East WRF	292B6005.1	168	No	3	3	3x3	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	505	36	BAYSHORE BLVD	2019	6/1/1963
6497	East WRF	292A1055.1	82	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	247	6			6/1/1970
6498	East WRF	291B8055.1	343	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,029	10			6/1/1974
6499	East WRF	317A2030.1	186	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	558	10			6/1/1978
6500	East WRF	301A1020.1	117	No	3	4	3x4	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	350	30			6/1/1963
6501	East WRF	291B8050.1	65	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	196	10			6/1/1974
6502	East WRF	292B5025.1	654	No	3	4	3x4	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,961	36	BAYSHORE BLVD	2019	6/1/1963
6503	East WRF	292B5030.1	343	No	3	4	3x4	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,029	36	BAYSHORE BLVD	2019	6/1/1963
6504	East WRF	292B6015.1	169	No	3	3	3x3	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	507	36	BAYSHORE BLVD	2019	6/1/1963
6505	East WRF	292B5020.1	191	No	3	4	3x4	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	573	36	BAYSHORE BLVD	2019	6/1/1963
6506	East WRF	292B6010.1	350	No	3	3	3x3	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,049	36	BAYSHORE BLVD	2019	6/1/1963
6507	East WRF	292A4120.1	307	No	3	4	3x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	922	36	BAYSHORE BLVD	2019	6/1/1963
6508	East WRF	299B8100.1	70	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	211	12			
6509	East WRF	299B8110.1	365	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,095	6			6/1/1969
6510	East WRF	299B8105.1	18	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	54	6			6/1/1969
6511	East WRF	318A1030.1	24	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	73	10			3/3/2003
6512	East WRF	308B8135.1	361	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,084	24			6/1/1963
6513	East WRF	308B8115.1	860	No	3	4	3x4	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	2,581	24			6/1/1963
6514	East WRF	292B8015.1	325	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	976	12			
6515	East WRF	292B8025.1	15	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	45	10			4/15/2014
6516	East WRF	317A2010.1	41	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	123	10			5/1/1984
6517	East WRF	317A2011.1	28	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	84	10			6/1/1973
6518	East WRF	300B5120.2	16	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	49	24			6/1/1986
6519	East WRF	292A1450.1	24	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	72	6			3/16/2004
6520	East WRF	297A3230.1	82	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	246	6			7/28/2006
6521	East WRF	297A3225.1	70	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	210	6			7/28/2006
6522	East WRF	297A3235.1	145	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	435	6			7/28/2006
6523	East WRF	297A3220.1	73	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	219	6			7/28/2006
6524	East WRF	297A3245.1	45	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	135	6			7/28/2006
6525	East WRF	299B8135	37	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	110	2			6/11/2005
6526	East WRF	299B8140	11	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	33	2			6/11/2005
6527	East WRF	308B8140.1	70	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	210	6			6/1/1970
6528	East WRF	308B8130.1	264	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	791	6			6/1/1970
6529	East WRF	308B8145.2	135	No	3	3	3x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	404	6			6/1/1970
6530	East WRF	315A1015.2	108	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	324				6/1/1988
6531	East WRF	309B8010.1	657	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,972	30			2/1/2013
6532	East WRF	314B7320.1	14	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	41	12			10/13/2014
6533	East WRF	292A1200.1	253	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	760	6			10/6/2015
6534	East WRF	292A1205.1	199	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	598	6			10/6/2015
6535	East WRF	292A1055.2	20	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	61	6			10/6/2015
6536	East WRF	292A1210.1	30	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	90	6			10/6/2015
6537	East WRF	292A1210.2	107	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	322	6			6/1/1970
6538	East WRF	288B6175.1	19	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	58	6			10/28/2014
6539	East WRF	308B5400.1	369	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,107	8			11/22/2016
6540	East WRF	291A2050.1	217	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	651	8			2/1/2013
6541	East WRF	291A4065.1	249	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	747	8			
6542	East WRF	274B6045.1	382	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,145	8	ALAMEDA AVE	2019	6/1/1972
6543	East WRF	274B6035.1	154	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	462	8			6/1/1985
6544	East WRF	316A4065.1	230	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	690	8			6/1/1981
6545	East WRF	317A2140.1	217	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	650	8			6/1/1989
6546	East WRF	288B5075.1	326	No	3	2	3x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	978	8	LAURA ST	2020	6/1/1962
6547	East WRF	316A4020.1	128	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	385	8			6/1/1971
6548	East WRF	316B5035.1	322	No	2	2	2x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	966	8	AMBASSADOR DR	2020	6/7/2008

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
6549	East WRF	288B5080.1	320	No	3	2	3x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	959	8			6/1/1962
6550	East WRF	316A4025.1	125	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	374	8			6/1/1972
6551	East WRF	309A2050.1	400	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,200	8	MORNINGSIDE DR	2019	6/1/1963
6552	East WRF	317B6025.1	214	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	643	8	PREMIER VILLAGE WAY	2019	6/1/1969
6553	East WRF	289A4060.1	170	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	511	8			
6554	East WRF	308B5065.1	211	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	634	8			6/1/1973
6555	East WRF	308B8100.1	300	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	899	8			6/1/1982
6556	East WRF	317A3065.1	370	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,110	8			6/1/1986
6557	East WRF	290B8030.1	198	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	593	8			2/1/2013
6558	East WRF	317B6020.1	41	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	122	8			2/1/1990
6559	East WRF	299B7055.1	361	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,083	8			6/1/1969
6560	East WRF	317A1075.1	339	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,016	8			6/1/1973
6561	East WRF	310A4015.1	28	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	85	8			6/1/1963
6562	East WRF	316A2020.1	219	No	1	3	1x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	657	8			
6563	East WRF	299B7015.1	141	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	423	8			6/1/2013
6564	East WRF	316A4085.1	121	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	362	8			6/1/1981
6565	East WRF	308B5110.1	9	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	27	8			
6566	East WRF	290B8050.1	328	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	984	8			2/3/2008
6567	East WRF	274B8085.1	280	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	839	8	SAN DOMINGO ST	2019	6/1/1972
6568	East WRF	316A4060.1	244	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	731	8			6/1/1981
6569	East WRF	314B5045.1	268	No	2	2	2x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	804	8			2/3/2008
6570	East WRF	309B7060.1	337	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,011	8			2/1/2013
6571	East WRF	309B7020.1	310	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	931	8			2/1/2013
6572	East WRF	274B8045.1	260	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	779	8	SAN DOMINGO CT	2019	6/1/1972
6573	East WRF	274B8105.1	333	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	998	8	SAN CARLOS ST	2019	6/1/1972
6574	East WRF	316A4030.1	210	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	630	8			6/1/1971
6575	East WRF	317A3055.1	112	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	336	8			6/1/1986
6576	East WRF	317A3095.1	197	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	592	8	WINCHESTER RD	2019	5/1/1984
6577	East WRF	290B8090.1	85	No	1	3	1x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	254	8			6/1/2013
6578	East WRF	301A1085.1	139	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	416	8			
6579	East WRF	283A1005.1	159	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	476	8			6/1/1971
6580	East WRF	274B6040.1	342	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,026	8	MAXIMO AVE	2019	6/1/1972
6581	East WRF	283B6045.1	215	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	644	8	BAYSHORE BLVD	2019	7/5/1986
6582	East WRF	316A4055.1	366	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,099	8			6/1/1971
6583	East WRF	316A4070.1	266	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	798	8			6/1/1971
6584	East WRF	317B5085.1	172	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	516	8	PREMIER VILLAGE WAY	2019	2/1/1990
6585	East WRF	299A2035.1	307	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	920	8			6/1/1970
6586	East WRF	315B7005.1	236	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	709	8			6/1/1972
6587	East WRF	299A2030.1	372	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,117	8			6/1/1970
6588	East WRF	317A1080.1	400	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,201	8	COUNTRY OAKS LN	2019	6/1/1989
6589	East WRF	290B8025.1	272	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	816	8			2/3/2008
6590	East WRF	283A4010.1	294	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	883	8	THOMAS RD	2019	6/1/1974
6591	East WRF	283A1010.1	42	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	126	8			6/1/1971
6592	East WRF	275A1020.1	69	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	206	8			2/12/1990
6593	East WRF	316A4105.1	202	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	606	8			6/1/1971
6594	East WRF	318A2050.1	251	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	753	8			
6595	East WRF	318A2065.1	164	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	492	8			
6596	East WRF	288B5020.1	271	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	812	8			6/1/1962
6597	East WRF	316A4015.1	224	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	671	8			6/1/1971
6598	East WRF	317B5110.1	101	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	303	8	PREMIER VILLAGE WAY	2019	2/1/1990
6599	East WRF	317B5120.1	247	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	741	8			6/1/1980
6600	East WRF	274B6010.1	261	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	783	8	ALAMEDA AVE	2019	6/1/1972
6601	East WRF	274B6055.1	278	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	835	8	MAXIMO AVE	2019	6/1/1972
6602	East WRF	274B8065.1	169	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	507	8	SAN DOMINGO CT	2019	6/1/1972
6603	East WRF	316A4010.1	347	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,041	8			6/1/1972
6604	East WRF	299A2070.1	183	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	548	8			6/1/1970
6605	East WRF	317A4015.1	234	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	702	8			6/1/1986
6606	East WRF	317A4005.1	188	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	565	8	WINCHESTER RD	2019	5/1/1984
6607	East WRF	317A3085.1	244	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	732	8			5/1/1984
6608	East WRF	289A2065.1	199	No	1	3	1x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	596	8			
6609	East WRF	274B8100.1	301	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	904	8	SAN GABRIEL ST	2019	6/1/1972
6610	East WRF	309A4050.1	100	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	299	8	RANCHWOOD DR	2019	7/1/1995
6611	East WRF	299B8055.1	333	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,000	8			2/1/2013
6612	East WRF	317B7020.1	320	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	960	8			6/1/1977
6613	East WRF	317B7010.1	211	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	633	8			6/1/1977
6614	East WRF	301A1040.1	21	No	2	1	2x1	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	63	6			
6615	East WRF	274B8050.1	288	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	865	8	MAXIMO AVE	2019	6/1/1972
6616	East WRF	291A2040.1	350	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,050	8			2/1/2013
6617	East WRF	291A2015.1	300	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	900	8			2/1/2013
6618	East WRF	318A1060.1	19	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	58	8			
6619	East WRF	318A3005.1	92	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	276	8			
6620	East WRF	274B6065.1	293	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	880	8	ALAMEDA AVE	2019	6/1/1972
6621	East WRF	283B8020.1	288	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	863	8	BAYSHORE BLVD	2019	6/1/1986
6622	East WRF	274B8075.1	173	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	519	8	SAN DOMINGO ST	2019	6/1/1972
6623	East WRF	316A4075.1	11	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	33	8			6/1/1981
6624	East WRF	316A4100.1	201	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	604	8			6/1/1971
6625	East WRF	317A2150.1	155	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	464	8			6/1/1989
6626	East WRF	316A2030.1	279	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	837	8			
6627	East WRF	288B5015.1	275	No	3	3	3x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	825	8			6/1/1962
6628	East WRF	298B7015.3	167	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	500	8			10/28/2013
6629	East WRF	309B5100.1	276	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	827	8			6/1/1980
6630	East WRF	317B6010.1	369	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,108	8	S HAVEN DR	2019	6/1/1979
6631	East WRF	309B7080.1	350	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,049	8			2/1/2013
6632	East WRF	309B7010.1	35	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	105	8			6/1/1969
6633	East WRF	290B8010.1	157	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	471	8			2/1/2013
6634	East WRF	317B7115.1	216	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	649	8			6/1/1980
6635	East WRF	309B7005.1	288	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	864	8			6/1/1969
6636	East WRF	299B8135.1	93	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	280	8			2/1/2013
6637	East WRF	299B7060.1	98	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	293	8			2/1/2013
6638	East WRF	317B5115.1	44	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	133	8			2/1/1990
6639	East WRF	317B8005.2	63	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	190	8			6/1/1980
6640	East WRF	317B6005.1	185	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	555	8	ROSETREE CT	2019	6/1/1979
6641	East WRF	274B8090.1	292	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	877	8	MAXIMO AVE	2019	6/1/1972
6642	East WRF	274B8120.1	379	No	3	1	3x1	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,136	8	MAXIMO AVE	2019	6/1/1972
6643	East WRF	274B8060.1	164	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	492	8	ALAMEDA AVE	2019	6/1/1972
6644	East WRF	274B8080.1	402	No	2	2	2x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,205	8	BAYSHORE BLVD	2019	6/7/2008
6645	East WRF	318A2055.1	96	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	288	8			
6646	East WRF	280A2070.1	253	No	3	2	3x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	758	8			
6647	East WRF	317A1085.1	93	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	278	8			6/1/1973
6648	East WRF	283A3085.1	385	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,154	8	SAN MATEO ST	2019	6/1/1975
6649	East WRF	317B7005.1	335	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,006	8			6/1/1977
6650	East WRF	290B8132.1	328	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	984	8			2/1/2013
6651	East WRF	274A4050.1	215	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	646	8			6/1/1985
6652	East WRF	317B5100.1	216	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	648	8	PREMIER VILLAGE WAY	2019	2/1/1990
6653	East WRF	275A1015.1	227	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	681	8	ARLIE AVE	2018	2/12/1990
6654	East WRF	283B8010.1	78	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	235	8	BAYSHORE BLVD	2019	6/1/1986
6655	East WRF	288B6065.1	201	No	3	2	3x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	602	8			6/1/1962
6656	East WRF	316A2045.1	91	No	1	2	1x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	273	8			
6657	East WRF	308B5050.1	94	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	282	8			6/1/1971

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
6658	East WRF	289A2070.1	309	No	1	3	1x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	927	8			
6659	East WRF	309B7040.1	332	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	996	8			2/1/2013
6660	East WRF	288B6060.1	335	No	3	2	3x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,005	8			6/1/1962
6661	East WRF	316A4005.1	188	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	565	8			6/1/1971
6662	East WRF	299A2065.1	299	No	3	1	3x1	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	898	8			6/1/1970
6663	East WRF	317B5075.1	165	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	494	8	ROSETREE CT	2019	6/1/1979
6664	East WRF	317A4010.1	64	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	192	8			6/1/1986
6665	East WRF	309A2040.1	399	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,198	8	WILLIAMS DR	2019	6/1/1963
6666	East WRF	283A4005.1	240	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	721	8	THOMAS RD	2019	6/1/1974
6667	East WRF	283A3095.1	71	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	212	8	MADERA AVE	2019	6/1/1973
6668	East WRF	283A3060.1	112	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	335	8	SAN BERNADINO ST	2019	6/1/1971
6669	East WRF	301A1035.1	218	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	654	8			6/1/1981
6670	East WRF	274A4025.1	198	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	593	8			6/1/1985
6671	East WRF	318A2060.1	91	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	274	8			
6672	East WRF	288B5045.1	260	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PP		(GravityMain.COND_TT] >= (4) is No	N-N	1	779	8			2/3/2008
6673	East WRF	289B6185.1	19	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	57	8			
6674	East WRF	290A2025.1	280	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	839	8			
6675	East WRF	308B8070.1	49	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	146	8			6/1/1982
6676	East WRF	317A4030.1	237	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	711	8			6/1/1986
6677	East WRF	291A2016.1	52	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	155	8			2/1/2013
6678	East WRF	274B6050.1	318	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	954	8	ALAMEDA AVE	2019	6/1/1972
6679	East WRF	274B8095.1	227	No	3	1	3x1	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	680	8	SAN GABRIEL ST	2019	6/1/1972
6680	East WRF	316A2060.1	225	No	1	2	1x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	676	8			
6681	East WRF	288B5040.1	244	No	2	2	2x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	731	8			2/3/2008
6682	East WRF	299B7050.1	347	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,042	8			6/1/1969
6683	East WRF	291B8091.1	167	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	502	8			
6684	East WRF	301A1080.1	140	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	420	8			
6685	East WRF	274B6060.1	385	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,155	8	ALAMEDA AVE	2019	6/1/1972
6686	East WRF	283A3090.1	93	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	280	8	SAN MATEO ST	2019	6/1/1973
6687	East WRF	301A1055.1	81	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	244	8			
6688	East WRF	283B6055.1	63	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	188	8			7/5/1986
6689	East WRF	316A4080.1	257	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	770	8			6/1/1981
6690	East WRF	318A2030.1	268	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	805	8			
6691	East WRF	318A2070.1	236	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	707	8			
6692	East WRF	314B7110.1	75	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	225	8			6/1/1981
6693	East WRF	308B5055.1	50	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	149	8			6/1/1971
6694	East WRF	299A1080.1	235	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	705	8			6/1/1982
6695	East WRF	317B5095.1	98	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	294	8	PREMIER VILLAGE WAY	2019	2/1/1990
6696	East WRF	317B6040.1	222	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	665	8	S HAVEN DR	2019	6/1/1969
6697	East WRF	317A3090.1	25	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	75	8			5/1/1984
6698	East WRF	290B8040.1	274	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	821	8			2/3/2008
6699	East WRF	317B7120.1	223	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	669	8			6/1/1980
6700	East WRF	274B8110.1	179	No	3	1	3x1	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	538	8	MAXIMO AVE	2019	6/1/1972
6701	East WRF	316A2035.1	225	No	1	2	1x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	675	8			
6702	East WRF	309B5090.1	256	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	767	8			6/1/1980
6703	East WRF	317B6015.1	253	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	759	8	S HAVEN DR	2019	6/1/1969
6704	East WRF	317A3080.1	39	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	116	8	WINCHESTER RD	2019	6/1/1984
6705	East WRF	309B7015.1	38	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	114	8			2/1/2013
6706	East WRF	280A2125.1	184	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	551	8			6/1/1986
6707	East WRF	280A2095.1	149	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	447	8			6/1/1987
6708	East WRF	280A2090.1	43	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	129	8			6/1/1986
6709	East WRF	308B9020.1	390	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,170	8			11/22/2016
6710	East WRF	309A4030.1	209	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	628	8	HARN BLVD	2019	7/1/1995
6711	East WRF	297B7005.1	155	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	464	8	S DUNCAN AVE	2021	
6712	East WRF	292A2035.1	405	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,215	8			
6713	East WRF	283A4070.1	269	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	808	8			6/1/1978
6714	East WRF	283A4040.1	179	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	538	8			6/1/1978
6715	East WRF	292A3045.1	171	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	512	8			
6716	East WRF	292A3030.1	99	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	298	8			
6717	East WRF	292A3020.1	100	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	301	8	BAYSHORE BLVD	2019	6/1/1974
6718	East WRF	283A4045.1	72	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	217	8			6/1/1978
6719	East WRF	283A4055.1	129	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	388	8			6/1/1978
6720	East WRF	292A2010.1	312	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	936	8			6/1/1970
6721	East WRF	292A4010.1	351	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,052	8	BAYSHORE BLVD	2019	
6722	East WRF	292A3140.1	57	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	170	8	BAYSHORE BLVD	2019	6/1/1986
6723	East WRF	292A3070.1	211	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	633	8	BAYSHORE BLVD	2019	6/1/1974
6724	East WRF	292A3040.1	39	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	117	8	BAYSHORE BLVD	2019	6/1/1974
6725	East WRF	289A4075.1	344	No	1	2	1x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,031	8			
6726	East WRF	288B8115.1	144	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	433	8			
6727	East WRF	283A3020.1	161	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	482	8	SAN PEDRO ST	2019	6/1/1978
6728	East WRF	283A3040.1	168	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	505	8	MADERA AVE	2019	6/1/1978
6729	East WRF	289B6100.1	83	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	248	8			6/1/1971
6730	East WRF	289B6120.1	81	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	244	8			6/1/1971
6731	East WRF	289B6145.1	239	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	718	8			6/1/1971
6732	East WRF	317A2135.1	238	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	713	8			6/1/1978
6733	East WRF	317A2095.1	169	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	508	8			6/1/1978
6734	East WRF	317B5090.1	402	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,207	8	ROSETREE CT	2019	6/1/1979
6735	East WRF	317B5080.1	277	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	830	8	ROSETREE CT	2019	6/1/1979
6736	East WRF	317B8050.1	196	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	588	8			6/1/1980
6737	East WRF	317B8030.1	36	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	109	8			6/1/1980
6738	East WRF	292A3075.1	185	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	556	8			
6739	East WRF	292A3050.1	367	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,102	8			
6740	East WRF	291B7115.1	219	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	658	8			
6741	East WRF	283B6070.1	327	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	982	8	BAYSHORE BLVD	2019	6/1/1974
6742	East WRF	283B6075.1	78	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	233	8	BAYSHORE BLVD	2019	6/1/1974
6743	East WRF	292A3010.1	244	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	731	8			6/1/1974
6744	East WRF	297B6081.1	77	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	231	8			6/1/1966
6745	East WRF	308B5085.1	57	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	170	8			6/1/1971
6746	East WRF	308B5145.1	266	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	797	8			6/1/1973
6747	East WRF	308B5115.1	115	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	345	8			6/1/1973
6748	East WRF	315B8015.1	216	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	648	8			
6749	East WRF	317A2110.1	174	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	522	8			6/1/1978
6750	East WRF	317A2050.1	126	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	379	8			6/1/1978
6751	East WRF	317B8045.1	351	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,052	8			6/1/1980
6752	East WRF	317A2055.1	116	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	349	8			6/1/1978
6753	East WRF	317A2070.1	124	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	371	8			6/1/1978
6754	East WRF	317B7015.1	95	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	284	8			6/1/1977
6755	East WRF	308B9030.1	96	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	288	8			11/22/2016
6756	East WRF	317B5105.1	276	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	827	8			6/1/1979
6757	East WRF	307A2005.1	259	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	777	8			6/1/1969
6758	East WRF	317B8090.1	112	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	336	8			8/20/2003
6759	East WRF	317B8075.1	131	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	393	8			8/20/2003
6760	East WRF	317B8080.1	230	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	690	8			8/20/2003
6761	East WRF	317B8085.1	38	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	114	8			8/20/2003
6762	East WRF	317B8095.1	199	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	597	8			8/20/2003
6763	East WRF	317B8105.1	90	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	270	8			8/20/2003
6764	East WRF	317B8070.1	65	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	195	8			8/20/2003
6765	East WRF	309B8060.1	158	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	474	8			8/20/2003
6766	East WRF	283B6065.1	102	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	307	8	BAYSHORE BLVD	2019	6/1/1974

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
6767	East WRF	283A4060.1	261	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	782	8			6/1/1978
6768	East WRF	283A4030.1	75	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	226	8			6/1/1978
6769	East WRF	283A4050.1	147	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	441	8			6/1/1978
6770	East WRF	292A3015.1	261	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	782	8	BAYSHORE BLVD	2019	6/1/1974
6771	East WRF	283A2010.1	111	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	334	8			12/1/1984
6772	East WRF	283A4085.1	94	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	283	8			6/1/1978
6773	East WRF	283A4090.1	38	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	113	8			6/1/1978
6774	East WRF	292A3025.1	33	No	3	2	3x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	99	8			
6775	East WRF	292A3150.1	362	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,085	8			6/1/1986
6776	East WRF	283A4065.1	133	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	400	8			6/1/1978
6777	East WRF	292A1040.1	118	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	353	8			6/1/1970
6778	East WRF	292A2020.1	291	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	872	8			
6779	East WRF	283A4075.1	46	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	137	8			6/1/1978
6780	East WRF	283A4035.1	258	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	774	8			6/1/1978
6781	East WRF	283A4080.1	251	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	753	8			6/1/1978
6782	East WRF	292A2065.1	274	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	822	8			6/1/1979
6783	East WRF	292A3060.1	188	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	563	8			6/1/1974
6784	East WRF	283A2005.1	409	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,227	8			12/1/1984
6785	East WRF	292A3135.1	263	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	789	8	BAYSHORE BLVD	2019	6/1/1986
6786	East WRF	308B8110.1	305	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	915	8			6/1/1982
6787	East WRF	308B8125.1	361	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,084	8			6/1/1970
6788	East WRF	317B8065.1	126	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	377	8			6/1/1980
6789	East WRF	289A3050.1	326	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	978	8			
6790	East WRF	289A3060.1	334	No	2	2	2x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,002	8			
6791	East WRF	292A4140.1	26	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	78	8			3/16/2004
6792	East WRF	292A4145.1	117	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	351	8			3/16/2004
6793	East WRF	318A1155.1	31	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	92	8			8/31/2001
6794	East WRF	297A3200.1	85	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	255	8			7/28/2006
6795	East WRF	297A4040.1	32	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	96	8	SKYVIEW AVE	2021	6/1/1983
6796	East WRF	297A3205.1	40	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	120	8	SKYVIEW AVE	2021	7/28/2006
6797	East WRF	297A3200.2	43	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	129	8			7/28/2006
6798	East WRF	297A3200.3	105	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	315	8			7/28/2006
6799	East WRF	297A3200.4	148	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	444	8			7/28/2006
6800	East WRF	318A2025.1	22	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	66	8			8/31/2001
6801	East WRF	307A1300.1	89	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	267	8			3/22/1985
6802	East WRF	301A4000.1	125	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	375	8			10/11/2005
6803	East WRF	301A4005.1	82	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	246	8			10/11/2005
6804	East WRF	301A4010.1	170	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	511	8			10/11/2005
6805	East WRF	301A4015.1	113	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	339	8			10/11/2005
6806	East WRF	315A1020.2	95	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	285	8			1/14/2010
6807	East WRF	307A3082.1	346	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,037	8			6/29/2009
6808	East WRF	315A2095.1	130	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	391	8			6/1/1988
6809	East WRF	292A2200.1	63	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	189	8			6/1/2009
6810	East WRF	292A2205.1	76	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	227	8			6/1/2009
6811	East WRF	292A2210.1	74	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	222	8			6/1/2009
6812	East WRF	292A2215.1	13	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	39	8			6/1/2009
6813	East WRF	299B8140.1	39	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	117	8			2/1/2013
6814	East WRF	299B8145.1	171	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	512	8			2/1/2013
6815	East WRF	299B8150.1	145	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	434	8			2/1/2013
6816	East WRF	299B8155.1	225	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	675	8			2/1/2013
6817	East WRF	299B8160.1	322	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	966	8			2/1/2013
6818	East WRF	299B8165.1	293	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	880	8			2/1/2013
6819	East WRF	299B7065.1	266	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	797	8			2/1/2013
6820	East WRF	290B8035.1	28	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	84	8			2/1/2013
6821	East WRF	299B7010.2	33	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	100	8			2/1/2013
6822	East WRF	299B7010.3	145	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	435	8			6/1/2013
6823	East WRF	299B7015.2	18	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	54	8			2/1/2013
6824	East WRF	299B7015.3	23	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	68	8			6/1/2013
6825	East WRF	291B7200.1	366	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,097	8			3/21/2014
6826	East WRF	291B7205.1	398	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,194	8			3/21/2014
6827	East WRF	291B7210.1	137	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	410	8			3/21/2014
6828	East WRF	291B7215.1	400	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,200	8			3/21/2014
6829	East WRF	291B7220.1	152	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	456	8			3/21/2014
6830	East WRF	291B7225.1	138	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	414	8			3/21/2014
6831	East WRF	291B7230.1	97	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	292	8			3/21/2014
6832	East WRF	291B7235.1	16	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	49	8			3/21/2014
6833	East WRF	298B7015.2	112	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	335	8			10/28/2013
6834	East WRF	292A3155.1	74	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	221	8			11/19/2014
6835	East WRF	314B7300.1	10	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	31	8			10/13/2014
6836	East WRF	314B7305.1	43	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	128	8			10/13/2014
6837	East WRF	314B7315.1	33	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	98	8			10/13/2014
6838	East WRF	297B7200.1	130	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	391	8	FLORIDA AVE	2021	5/25/2007
6839	East WRF	297B7205.1	248	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	744	8			5/25/2007
6840	East WRF	297B7210.1	120	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	360	8			
6841	East WRF	317A2200.1	340	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,020	8			7/27/2016
6842	East WRF	308B5405.1	309	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	927	8			11/22/2016
6843	East WRF	308B5410.1	316	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	948	8			11/22/2016
6844	East WRF	308B5445.1	293	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	880	8			11/22/2016
6845	East WRF	308B5440.1	41	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	123	8			11/22/2016
6846	East WRF	308B5435.1	233	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	699	8			11/22/2016
6847	East WRF	308B5430.1	64	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	192	8			11/22/2016
6848	East WRF	308B5415.1	214	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	642	8			11/22/2016
6849	East WRF	308B5420.1	41	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	123	8			11/22/2016
6850	East WRF	308B5425.1	187	No	2	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	560	8			11/22/2016
6851	East WRF	308B5315.1	328	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	984	8			11/22/2016
6852	East WRF	308B5310.1	127	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	381	8			11/22/2016
6853	East WRF	308B5305.0	264	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	792	8			11/22/2016
6854	East WRF	308B5300.1	387	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,161	8			11/22/2016
6855	East WRF	301A3020.1	61	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	184	10			
6856	East WRF	301A3030.1	165	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	495	36			
6857	East WRF	291B5210.1	4	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	11	6			4/28/2015
6858	East WRF	298A1140.1	21	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	63	12	S ARCTURAS AVE	2021	6/14/2018
6859	East WRF	298A1145.1	329	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	987	12	S ARCTURAS AVE	2021	6/14/2018
6860	East WRF	298A1150.1	309	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	927	12	S ARCTURAS AVE	2021	6/14/2018
6861	East WRF	289A2135.1	124	No	1	4	1x4	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	372	12	S ARCTURAS AVE	2021	6/14/2018
6862	East WRF	289A2130.1	9	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	27	12			6/14/2018
6863	East WRF	298A1030.2	7	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	21	10	S ARCTURAS AVE	2021	6/14/2018
6864	East WRF	289A2085.2	24	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	71	8			6/14/2018
6865	Northeast WRF	188B5170.1	47	No	1	2	1x2	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	142	16			
6866	Northeast WRF	264A2025.1	161	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	484	10			6/1/1983
6867	Northeast WRF	211A3065.1	176	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	527	10	WEATHERSFIELD CT	2022	6/1/1973
6868	Northeast WRF	211A3060.1	226	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	677	10	WEATHERSFIELD CT	2022	6/1/1973
6869	Northeast WRF	178A3005.1	349	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,048	18			6/1/1980
6870	Northeast WRF	256A2155.1	200	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	600	12			6/1/1972
6871	Northeast WRF	265A1050.1	392	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,176	12			6/1/1972
6872	Northeast WRF	265A2060.1	331	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	992	12			6/1/1969
6873	Northeast WRF	274A2020.1	297	No	1	3	1x3	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	892	36			6/8/2007
6874	Northeast WRF	178B7045.1	333	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	998	18			6/1/1980
6875	Northeast WRF	178B7025.1	350	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,050	18			6/1/1980

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
6876	Northeast WRF	201A2045.1	502	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,505	24			6/1/1977
6877	Northeast WRF	262A3055.1	219	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	657	12			6/1/1990
6878	Northeast WRF	262A1020.1	227	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	682	10			6/1/1969
6879	Northeast WRF	262A4030.1	332	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	995	15			6/1/1969
6880	Northeast WRF	254A2025.1	355	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,065	12			2/3/2008
6881	Northeast WRF	262B8065.1	212	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	636	18			6/1/1969
6882	Northeast WRF	254A2010.1	77	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	232	15			6/1/1970
6883	Northeast WRF	263A1095.1	310	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	930	15			6/1/1970
6884	Northeast WRF	262B8085.1	215	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	646	18			6/1/1969
6885	Northeast WRF	281A1100.1	119	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	357	12			
6886	Northeast WRF	256A2120.1	138	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	414	10			6/1/1972
6887	Northeast WRF	274A3030.1	147	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	440	18			6/1/1969
6888	Northeast WRF	274A3035.1	35	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	104	18			6/1/1969
6889	Northeast WRF	178B7070.1	119	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	357	18			6/1/1980
6890	Northeast WRF	262A3095.1	296	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	889	15			6/1/1969
6891	Northeast WRF	262A3020.1	310	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	930	12			6/1/1969
6892	Northeast WRF	262B8070.1	273	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	819	18			6/1/1969
6893	Northeast WRF	263A1045.1	375	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,125	15			6/1/1970
6894	Northeast WRF	254B6055.1	162	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	485	10	ELLIOTT DR	2020	6/1/1970
6895	Northeast WRF	263A4110.1	265	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	796	12			6/1/1984
6896	Northeast WRF	221A2040.1	227	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	681	10			6/1/1979
6897	Northeast WRF	272A3060.1	43	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	128	12			6/1/1984
6898	Northeast WRF	178B5045.1	386	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,159	10			2/1/1979
6899	Northeast WRF	211A4035.1	150	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	450	10			6/1/1973
6900	Northeast WRF	212A2020.1	303	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	909	21			6/1/1977
6901	Northeast WRF	262B6020.1	329	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	986	15			6/1/1969
6902	Northeast WRF	254A2015.1	339	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,017	12			2/3/2008
6903	Northeast WRF	212A2030.1	357	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,072	21			6/1/1977
6904	Northeast WRF	178B7055.1	368	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,104	18			6/1/1980
6905	Northeast WRF	264A2055.1	312	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	937	10			6/1/1983
6906	Northeast WRF	282A3055.1	347	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,041	12			
6907	Northeast WRF	282A3075.1	217	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	650	12	FAIRWOOD FOREST DR	2020	
6908	Northeast WRF	178B5005.1	339	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,018	18			6/1/1980
6909	Northeast WRF	178B6040.1	413	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,239	10			2/1/1979
6910	Northeast WRF	254A4065.1	246	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	737	10	ATLANTIS DR	2020	6/1/1970
6911	Northeast WRF	254A4075.1	295	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	886	10	MEADOW DR	2020	6/1/1970
6912	Northeast WRF	221A3050.1	376	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,127	10			2/1/1999
6913	Northeast WRF	178A3015.1	150	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	449	18			6/1/1980
6914	Northeast WRF	223A2055.1	70	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	211	21			6/1/1977
6915	Northeast WRF	223A2025.1	16	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	48	24			6/1/1976
6916	Northeast WRF	262A3090.1	337	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,012	15			6/1/1969
6917	Northeast WRF	262A3075.1	344	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,032	12			6/1/1990
6918	Northeast WRF	262B8095.1	116	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	349	18			6/1/1970
6919	Northeast WRF	281A1075.1	188	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	563	12			
6920	Northeast WRF	281B5005.1	361	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,084	15			6/1/1969
6921	Northeast WRF	281A3025.1	220	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	659	15			6/1/1969
6922	Northeast WRF	262B6025.1	334	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,002	15			6/1/1969
6923	Northeast WRF	272B5100.1	114	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	341	10	RIDGE TOP WAY	2023	4/1/1981
6924	Northeast WRF	282A2115.1	290	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	871	10			6/1/1970
6925	Northeast WRF	178A3010.1	160	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	479	18			6/1/1980
6926	Northeast WRF	178B5010.1	285	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	855	18			6/1/1980
6927	Northeast WRF	189A3040.1	242	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	727	10			6/1/1978
6928	Northeast WRF	189B5035.1	268	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	805	10			6/1/1979
6929	Northeast WRF	265A1070.1	403	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,209	12			6/1/1972
6930	Northeast WRF	265A4015.1	282	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	847	15			6/1/1969
6931	Northeast WRF	274A3020.1	343	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,029	18			6/1/1969
6932	Northeast WRF	178B7010.1	300	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	900	18			6/1/1980
6933	Northeast WRF	179A1075.1	25	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	76	18			6/1/1980
6934	Northeast WRF	178B7090.1	201	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	602	16			6/1/1980
6935	Northeast WRF	223A2060.1	292	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	877	21			6/1/1977
6936	Northeast WRF	232A3020.1	183	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	548	12			6/1/1973
6937	Northeast WRF	232A3010.1	81	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	243	16			6/1/1973
6938	Northeast WRF	271B7080.1	175	No	3	5	3x5	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	525	18			6/1/1969
6939	Northeast WRF	254B6045.1	411	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,232	10	W SKYLINE DR	2020	6/1/1970
6940	Northeast WRF	178B7005.1	212	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	636	18			6/1/1980
6941	Northeast WRF	264A2035.1	37	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	111	10			6/1/1983
6942	Northeast WRF	211A4025.1	386	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,158	10	QUAIL HOLLOW RD W	2022	6/1/1973
6943	Northeast WRF	262A1010.1	294	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	881	10			6/1/1969
6944	Northeast WRF	262A3105.1	209	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	626	15			6/1/1969
6945	Northeast WRF	262A3100.1	52	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	157	15			6/1/1969
6946	Northeast WRF	262A3080.1	230	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	690	12			6/1/1990
6947	Northeast WRF	262A3030.1	144	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	432	12			6/1/1969
6948	Northeast WRF	280A4030.1	59	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	177	6			
6949	Northeast WRF	254A2020.1	340	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,020	12			2/3/2008
6950	Northeast WRF	263A1075.1	277	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	832	15			6/1/1970
6951	Northeast WRF	262B8090.1	84	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	253	18			6/1/1969
6952	Northeast WRF	289B7070.1	341	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,024	10			5/1/1983
6953	Northeast WRF	254A4055.1	199	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	596	10	MEADOW DR	2020	6/1/1970
6954	Northeast WRF	263A4055.1	13	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	38	12			6/1/1984
6955	Northeast WRF	281B5035.1	314	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	941	15			6/1/1969
6956	Northeast WRF	282A2050.1	199	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	597	10			
6957	Northeast WRF	212A1015.1	79	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	237	4			
6958	Northeast WRF	274A4012.1	36	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	107	36			
6959	Northeast WRF	178B5180.1	396	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,188	10			2/1/1979
6960	Northeast WRF	178B5015.1	113	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	338	18			6/1/1980
6961	Northeast WRF	211A4020.1	257	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	770	10	QUAIL HOLLOW RD W	2022	6/1/1973
6962	Northeast WRF	211A4045.1	294	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	881	10			6/1/1973
6963	Northeast WRF	211A4095.1	51	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	153	18			6/1/1977
6964	Northeast WRF	265A1015.1	400	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,200	12			6/1/1972
6965	Northeast WRF	201A2005.1	417	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,251	24			6/1/1977
6966	Northeast WRF	212A1055.1	341	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,022	21			6/1/1977
6967	Northeast WRF	212A1060.1	150	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	450	10			
6968	Northeast WRF	262A1015.1	82	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	246	10			6/1/1969
6969	Northeast WRF	262A3070.1	298	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	894	12			6/1/1969
6970	Northeast WRF	262B8030.1	373	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,118	18			6/1/1970
6971	Northeast WRF	271B7055.1	288	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	864	18			6/1/1969
6972	Northeast WRF	243B8105.1	74	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	221	12			6/1/1980
6973	Northeast WRF	262B6030.1	375	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,124	15			6/1/1969
6974	Northeast WRF	272B5110.1	144	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	431	10	RIDGE TOP WAY	2023	4/1/1981
6975	Northeast WRF	272B5120.1	145	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	435	10	OLD COACH TRL	2023	4/1/1981
6976	Northeast WRF	272B6005.1	109	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	326	10	OLD COACH TRL	2023	4/1/1981
6977	Northeast WRF	221A2025.1	176	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	529	10			6/1/1979
6978	Northeast WRF	265A4025.1	101	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	302	15			6/1/1969
6979	Northeast WRF	211B8130.1	312	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	937	18			6/1/1977
6980	Northeast WRF	212A2015.1	298	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	894	21			6/1/1977
6981	Northeast WRF	262B8055.1	394	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,183	18	S LAGOON CIR	2023	6/1/1970
6982	Northeast WRF	254A4070.1	345	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,035	12			2/3/2008
6983	Northeast WRF	281B7020.1	365	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,096	12			2/8/2013
6984	Northeast WRF	274A2707.1	30	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	89	36			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
6985	Northeast WRF	274A2025.1	203	No	1	3	1x3	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	608	36			6/8/2007
6986	Northeast WRF	274A3040.1	227	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	680	18			6/1/1969
6987	Northeast WRF	179A1070.1	163	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	490	18			6/1/1980
6988	Northeast WRF	178B6050.1	60	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	181	10			2/1/1979
6989	Northeast WRF	178B5095.1	398	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,193	10			2/1/1979
6990	Northeast WRF	211A3085.1	269	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	807	10			6/1/1973
6991	Northeast WRF	222A3015.1	78	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	235	18			6/1/1977
6992	Northeast WRF	265A2005.1	405	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,214	12			6/1/1972
6993	Northeast WRF	179A1060.1	201	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	602	18			6/1/1980
6994	Northeast WRF	179A1125.1	255	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	766	16			6/1/1980
6995	Northeast WRF	201A2015.1	376	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,127	24			6/1/1977
6996	Northeast WRF	212A1010.1	343	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,028	21			6/1/1977
6997	Northeast WRF	280A3005.1	64	No	3	3	3x3	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	192	10			6/1/1973
6998	Northeast WRF	262A1025.1	280	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	841	10			6/1/1969
6999	Northeast WRF	263A1005.1	304	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	912	15			6/1/1970
7000	Northeast WRF	271B7065.1	286	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	858	18			6/1/1969
7001	Northeast WRF	232A1005.1	49	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	147	12			6/1/1979
7002	Northeast WRF	254A4060.1	273	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	818	12	ATLANTIS DR	2020	2/3/2008
7003	Northeast WRF	201A2050.1	483	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,450	24			6/1/1977
7004	Northeast WRF	272A3095.1	394	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,182	15			6/1/1984
7005	Northeast WRF	272A3035.1	302	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	906	12			6/1/1984
7006	Northeast WRF	212A1020.1	46	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	138	4			
7007	Northeast WRF	179A1105.1	29	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	88	18			6/1/1980
7008	Northeast WRF	223A2040.1	62	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	187	24			6/1/1976
7009	Northeast WRF	262B8060.1	376	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,127	15			6/1/1969
7010	Northeast WRF	281A2040.1	276	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	829	15			8/25/2010
7011	Northeast WRF	254A4080.1	225	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	675	10	ELLIOTT DR	2020	6/1/1970
7012	Northeast WRF	189A3045.1	367	No	2	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,100	10			6/1/1978
7013	Northeast WRF	256A2135.1	99	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	298	12			6/1/1972
7014	Northeast WRF	274A3025.1	452	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,356	18			6/1/1969
7015	Northeast WRF	178B5020.1	120	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	361	18			6/1/1980
7016	Northeast WRF	281B5010.1	74	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	223	15			6/1/1969
7017	Northeast WRF	221A2055.1	308	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	923	10			6/1/1979
7018	Northeast WRF	281A1080.1	149	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	447	12			
7019	Northeast WRF	282A2100.1	233	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	700	10			6/1/1970
7020	Northeast WRF	282A2080.1	315	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	945	10			6/1/1970
7021	Northeast WRF	262A4020.1	415	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,244	15			6/1/1969
7022	Northeast WRF	262A3085.1	331	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	992	15			6/1/1969
7023	Northeast WRF	271B7075.1	280	No	3	5	3x5	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	840	18			6/1/1969
7024	Northeast WRF	281A1095.1	115	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	345	12			
7025	Northeast WRF	262B8080.1	300	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	900	18			6/1/1969
7026	Northeast WRF	272B5130.1	33	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	98	10			4/1/1981
7027	Northeast WRF	221A2075.1	260	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	779	10			6/1/1979
7028	Northeast WRF	272A3135.1	204	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	612	12			6/1/1984
7029	Northeast WRF	211A3115.1	240	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	720	10			6/1/1973
7030	Northeast WRF	271B7085.1	152	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	456	18			6/1/1969
7031	Northeast WRF	274A3045.1	131	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	394	18			6/1/1969
7032	Northeast WRF	274A2005.1	79	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	237	36			
7033	Northeast WRF	221B6015.1	24	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	73	10			6/1/1993
7034	Northeast WRF	222A3030.1	275	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	824	18	WINDING WOOD DR	2022	6/1/1977
7035	Northeast WRF	178B6120.1	354	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,063	10	COUNTRYSIDE BLVD	2022	2/1/1979
7036	Northeast WRF	222A1030.1	21	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	63	18			6/1/1977
7037	Northeast WRF	256A2130.1	237	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	711	12			6/1/1972
7038	Northeast WRF	274A2040.1	349	No	1	3	1x3	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,047	36			6/8/2007
7039	Northeast WRF	178B7020.1	186	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	558	18			6/1/1980
7040	Northeast WRF	178B7015.1	277	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	831	18			6/1/1980
7041	Northeast WRF	212A1005.1	505	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,514	24			6/1/1977
7042	Northeast WRF	212A1035.1	360	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,081	21			6/1/1977
7043	Northeast WRF	201A2020.1	65	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	196	24			6/1/1977
7044	Northeast WRF	262B6015.1	329	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	987	15			6/1/1969
7045	Northeast WRF	262A3040.1	164	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	493	12			6/1/1990
7046	Northeast WRF	262B8010.1	278	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	834	18	MANOR BLVD N	2023	6/1/1970
7047	Northeast WRF	271B7040.1	69	No	2	4	2x4	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	206	30			6/1/1969
7048	Northeast WRF	221A2030.1	197	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	591	10			6/1/1979
7049	Northeast WRF	232B8010.1	11	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	34	10			
7050	Northeast WRF	274A4010.2	72	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	217	36			
7051	Northeast WRF	222B5025.1	70	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	211	4			6/1/1982
7052	Northeast WRF	222B5020.1	63	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	188	4			6/1/1982
7053	Northeast WRF	273A2035.1	360	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,080	10			6/1/1973
7054	Northeast WRF	256A2150.1	213	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	639	12			6/1/1972
7055	Northeast WRF	256A2160.1	291	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	874	12			6/1/1972
7056	Northeast WRF	179A1080.1	415	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,244	16			6/1/1980
7057	Northeast WRF	221A2015.1	101	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	302	10			6/1/1978
7058	Northeast WRF	263B6015.1	28	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	83	4			2/3/2008
7059	Northeast WRF	211A3070.1	374	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,123	10	WESTCHESTER DR S	2022	6/1/1973
7060	Northeast WRF	178B5025.1	285	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	856	18			6/1/1980
7061	Northeast WRF	178B6065.1	310	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	929	10	FAIR GREEN DR	2022	2/1/1979
7062	Northeast WRF	189B5020.1	345	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,036	10	MASTERS DR	2022	2/1/1979
7063	Northeast WRF	256A2125.1	144	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	431	10			6/1/1972
7064	Northeast WRF	274A2035.1	96	No	1	3	1x3	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	288	36			6/8/2007
7065	Northeast WRF	201A2025.1	147	No	3	5	3x5	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	441	24			6/1/1977
7066	Northeast WRF	212A2050.1	338	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,015	18			6/1/1977
7067	Northeast WRF	262A3035.1	107	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	321	12			6/1/1990
7068	Northeast WRF	262A3010.1	327	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	982	12			6/1/1969
7069	Northeast WRF	281B5020.1	383	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,149	15			6/1/1969
7070	Northeast WRF	263B6030.1	23	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	68	4			2/3/2008
7071	Northeast WRF	263B6020.1	56	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	169	4			2/3/2008
7072	Northeast WRF	179A1050.1	18	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	53				6/1/1981
7073	Northeast WRF	178B6095.1	412	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,236	10	COUNTRYSIDE BLVD	2022	2/1/1979
7074	Northeast WRF	265A4020.1	229	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	688	15			6/1/1969
7075	Northeast WRF	201A2010.1	400	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,200	24			6/1/1977
7076	Northeast WRF	262A4005.1	236	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	708	15			6/1/1969
7077	Northeast WRF	262A3060.1	375	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,124	12			6/1/1990
7078	Northeast WRF	263A1135.1	146	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	437	15	MANOR BLVD N	2023	6/1/1970
7079	Northeast WRF	262B8075.1	149	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	446	18	S LAGOON CIR	2023	6/1/1970
7080	Northeast WRF	272B6025.1	78	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	233	10	OLD COACH TRL	2023	4/1/1981
7081	Northeast WRF	232A3030.1	244	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	732	12			6/1/1973
7082	Northeast WRF	211A4055.1	375	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,125	10			6/1/1973
7083	Northeast WRF	211A4085.1	188	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	565	10			6/1/1973
7084	Northeast WRF	211B6150.1	47	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	140	10			6/1/1973
7085	Northeast WRF	211A3010.1	152	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	457	10	WEATHERSFIELD CT	2022	6/1/1973
7086	Northeast WRF	200A2090.1	289	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	868	10	TORREY PINES CT	2022	6/1/1973
7087	Northeast WRF	211A3015.1	50	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	150	10			6/1/1973
7088	Northeast WRF	221A3025.1	191	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	573	10			2/1/1999
7089	Northeast WRF	232A3050.1	208	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	623	10			6/1/1973
7090	Northeast WRF	279B9010.1	49	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	148	12			
7091	Northeast WRF	279B9045.1	85	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	254	6			
7092	Northeast WRF	279B9000.1	98	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	293	12			
7093	Northeast WRF	279B9020.1	336	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,009	15			

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
7094	Northeast WRF	279B9050.1	72	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	216	6			
7095	Northeast WRF	279B9055.1	87	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	262	6			
7096	Northeast WRF	279B9015.1	285	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	855	15			
7097	Northeast WRF	279B9005.1	171	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	512	12			
7098	Northeast WRF	265A2045.1	248	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	745	10			6/1/1969
7099	Northeast WRF	272A3105.1	34	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	103	10			6/1/1984
7100	Northeast WRF	282B5030.1	88	No	1	4	1x4	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	265	30			7/6/2006
7101	Northeast WRF	271A4010.2	34	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	102	10			3/11/2004
7102	Northeast WRF	271A4045.1	305	No	1	4	1x4	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	915	10			3/11/2004
7103	Northeast WRF	271A4050.1	295	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	885	10			3/11/2004
7104	Northeast WRF	271A4055.1	289	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	867	10			3/11/2004
7105	Northeast WRF	271A4060.1	186	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	558	10			3/11/2004
7106	Northeast WRF	264A4145.1	147	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	441	6			6/1/1973
7107	Northeast WRF	279B9025.1	296	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	888	15			
7108	Northeast WRF	272A3125.1	146	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	439	10	FLINT LOCK DR	2023	6/1/1984
7109	Northeast WRF	272A3120.1	113	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	339	10	FARRIER TRL	2023	6/1/1984
7110	Northeast WRF	272A3100.1	60	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	181	10	STAG RUN BLVD	2023	6/1/1984
7111	Northeast WRF	272A3110.1	210	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	631	10	FARRIER TRL	2023	6/1/1984
7112	Northeast WRF	272A3090.1	186	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	559	10	STAG RUN BLVD	2023	6/1/1984
7113	Northeast WRF	272A4010.1	116	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	347	10	OLD COACH TRL	2023	6/1/1984
7114	Northeast WRF	272A4015.1	113	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	339	10	OLD COACH TRL	2023	6/1/1984
7115	Northeast WRF	272B6030.1	211	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	634	10	OLD COACH TRL	2023	6/1/1984
7116	Northeast WRF	273A1095.1	139	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	418	6			6/1/1970
7117	Northeast WRF	279B9040.1	44	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	131	18			6/1/2003
7118	Northeast WRF	279B8005.1	13	No	1	4	1x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	39	10			6/1/2003
7119	Northeast WRF	244A4080.1	23	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	70	12			6/1/1984
7120	Northeast WRF	244A4085.1	173	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	520	12			6/1/1984
7121	Northeast WRF	279B9060.1	62	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	185	15			
7122	Northeast WRF	279B9030.1	100	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	300	15			
7123	Northeast WRF	279B8007.1	62	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	187	10			6/1/2003
7124	Northeast WRF	279B8006.1	17	No	1	4	1x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	51	10			6/1/2003
7125	Northeast WRF	272A3015.1	25	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	74	12			6/1/1984
7126	Northeast WRF	272A3025.1	253	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	758	12			6/1/1984
7127	Northeast WRF	283A1019.1	140	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	421	10			7/6/2006
7128	Northeast WRF	282B2076.1	54	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	163	30			7/6/2006
7129	Northeast WRF	282B2075.1	62	No	1	4	1x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	186	30			7/6/2006
7130	Northeast WRF	282B2074.1	59	No	1	4	1x4	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	177	30			7/6/2006
7131	Northeast WRF	282B2073.1	163	No	1	4	1x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	488	30			7/6/2006
7132	Northeast WRF	282B2072.1	302	No	1	4	1x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	905	30			7/6/2006
7133	Northeast WRF	282B7071.1	278	No	1	4	1x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	833	30			7/6/2006
7134	Northeast WRF	282B7070.1	478	No	1	4	1x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,434	30			7/6/2006
7135	Northeast WRF	282B5041.1	135	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	406	10			7/6/2006
7136	Northeast WRF	282B5042.1	41	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	124	10			7/6/2006
7137	Northeast WRF	272A4090.1	134	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	401	6			7/20/2007
7138	Northeast WRF	271B9020.1	42	No	1	1	1x1	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	126	4			9/1/2006
7139	Northeast WRF	244A4504.2	14	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	42	10			10/22/2007
7140	Northeast WRF	281A1200.1	31	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	93	6			5/29/2008
7141	Northeast WRF	254B1015.1	112	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	336	10			7/14/2006
7142	Northeast WRF	254B7005.1	54	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	162	10			7/14/2006
7143	Northeast WRF	254B1010.1	185	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	556	10			7/14/2006
7144	Northeast WRF	254B1000.1	56	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	168	10			7/14/2006
7145	Northeast WRF	272A3060.2	31	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	93	12			6/1/1984
7146	Northeast WRF	272A3060.3	76	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	228	12			6/1/1984
7147	Northeast WRF	263A4055.2	41	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	123	12			6/1/1984
7148	Northeast WRF	263A4055.3	23	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	68	12			6/1/1984
7149	Northeast WRF	201B5025.1	45	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	135	12			5/1/2004
7150	Northeast WRF	201B5020.1	117	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	351	12			5/1/2004
7151	Northeast WRF	201B5015.1	38	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	113	6			5/1/2004
7152	Northeast WRF	211A1200.1	224	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	671	4			8/10/2015
7153	Northeast WRF	211A1225	18	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	55	6			8/10/2015
7154	Northeast WRF	255B7100.1	14	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	42				4/1/1986
7155	Northeast WRF	255B7105.2	18	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	55				4/1/1986
7156	Northeast WRF	255B7105.1	114	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	343				4/1/1986
7157	Northeast WRF	264A2050.1	20	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	60	8			6/1/1973
7158	Northeast WRF	264A2040.1	19	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	58	8			6/1/1973
7159	Northeast WRF	271B9000.1	113	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	339	8			
7160	Northeast WRF	200B8065.1	323	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	970	8			6/1/1978
7161	Northeast WRF	244B8030.1	267	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	801	8			4/1/1986
7162	Northeast WRF	264B8100.1	380	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,139	8			6/1/1973
7163	Northeast WRF	188B5165.1	330	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	990	8			6/1/1977
7164	Northeast WRF	188B5125.1	57	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	172	8			6/1/1978
7165	Northeast WRF	221B6025.1	185	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	556	8			6/1/1993
7166	Northeast WRF	221B6085.1	365	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,095	8			6/1/1993
7167	Northeast WRF	282A3040.1	280	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	841	8	FAIRWOOD LN	2020	6/1/1981
7168	Northeast WRF	272B7025.1	251	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	753	8			6/1/1973
7169	Northeast WRF	273A1130.1	253	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	760	8			6/1/1974
7170	Northeast WRF	282A3030.1	177	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	531	8	FAIRWOOD FOREST DR	2020	6/1/1981
7171	Northeast WRF	244B6050.1	258	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	775	8			6/1/1986
7172	Northeast WRF	244B6065.1	225	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	675	8			6/1/1986
7173	Northeast WRF	264B6030.1	96	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	289	8	ST. CROIX DR	2022	6/1/1969
7174	Northeast WRF	264B6140.1	298	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	895	8	LORI DR	2022	6/1/1969
7175	Northeast WRF	273A4045.1	309	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	927	8	BEACHWOOD AVE	2020	6/1/1972
7176	Northeast WRF	273B6090.1	314	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	941	8	DOVEWOOD ST	2020	6/1/1972
7177	Northeast WRF	273B5050.1	81	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	244	8			6/1/1974
7178	Northeast WRF	273B8060.1	235	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	704	8	LEMONWOOD ST	2020	6/1/1972
7179	Northeast WRF	282A4005.1	346	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,037	8	FAIRWOOD FOREST DR	2020	
7180	Northeast WRF	282A3050.1	295	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	886	8	FAIRWOOD LN	2020	6/1/1981
7181	Northeast WRF	222A4100.1	219	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	658	8	CYPRESS BEND DR E	2022	6/1/1977
7182	Northeast WRF	178A2060.1	100	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	301	8			6/1/1983
7183	Northeast WRF	178A2015.1	301	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	903	8			6/1/1983
7184	Northeast WRF	178A2070.1	130	No	3	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	390	8			6/1/1984
7185	Northeast WRF	178A1045.1	184	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	553	8			6/1/1983
7186	Northeast WRF	233B5010.1	317	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	952	8			6/1/1982
7187	Northeast WRF	178A1075.1	183	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	548	8			6/1/1984
7188	Northeast WRF	178A1155.1	23	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	70	8			12/1/2003
7189	Northeast WRF	188B7110.1	187	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	562	8			6/1/1978
7190	Northeast WRF	188B7070.1	157	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	472	8			6/1/1978
7191	Northeast WRF	188B7155.1	354	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,061	8			6/1/1977
7192	Northeast WRF	189A1010.1	273	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	818	8			6/1/1978
7193	Northeast WRF	189A1035.1	202	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	605	8			6/1/1978
7194	Northeast WRF	189A1060.1	306	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	918	8			6/1/1978
7195	Northeast WRF	189A2070.1	157	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	470	8			6/1/1977
7196	Northeast WRF	189A3005.1	217	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	652	8			6/1/1978
7197	Northeast WRF	200A1015.1	267	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	802	8	AUGUSTA DR N	2022	6/1/1977
7198	Northeast WRF	200A2020.1	321	No	1	2	1x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	964	8	COUNTRYCLUB DR	2022	6/1/1977
7199	Northeast WRF	200A2070.1	321	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	963	8	WESTCHESTER DR N	2022	6/1/1977
7200	Northeast WRF	211A1005.1	404	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,213	8	CLUBHOUSE DR S	2022	6/1/1977
7201	Northeast WRF	233A1055.1	280	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	840	8			6/1/1979
7202	Northeast WRF	178A4105.1	69	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	207	8			6/1/1979

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
7203	Northeast WRF	178A3080.1	245	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	736	8			6/1/1980
7204	Northeast WRF	178A3095.1	397	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,191	8			6/1/1980
7205	Northeast WRF	189B5010.1	240	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	720	8	MONTROSE LN	2022	6/1/1979
7206	Northeast WRF	189B5060.1	292	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	877	8	INVERRARY LN	2022	6/1/1979
7207	Northeast WRF	189B6030.1	391	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,173	8	HYDE PARK DR	2022	6/1/1980
7208	Northeast WRF	200B6030.1	373	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,118	8			6/1/1978
7209	Northeast WRF	200B6015.1	339	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,017	8			6/1/1978
7210	Northeast WRF	200B6070.1	150	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	451	8			6/1/1978
7211	Northeast WRF	211A3090.1	164	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	491	8	QUAIL HOLLOW RD W	2022	6/1/1973
7212	Northeast WRF	211A3080.1	209	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	627	8	QUAIL HOLLOW RD W	2022	6/1/1973
7213	Northeast WRF	211B6100.1	312	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	936	8	QUAIL HOLLOW RD E	2022	6/1/1973
7214	Northeast WRF	211B6120.1	276	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	827	8			6/1/1974
7215	Northeast WRF	211B6110.1	154	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	462	8			6/1/1974
7216	Northeast WRF	222A3170.1	240	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	720	8	WINDING WOOD DR	2022	6/1/1977
7217	Northeast WRF	222A4065.1	198	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	595	8	WINDING WOOD DR	2022	6/1/1977
7218	Northeast WRF	222A4085.1	86	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	259	8	WINDING WOOD DR	2022	6/1/1977
7219	Northeast WRF	222A4090.1	42	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	127	8	DOGWOOD CT	2022	6/1/1977
7220	Northeast WRF	222B6005.1	152	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	456	8			6/1/1982
7221	Northeast WRF	222B6035.1	184	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	551	8			6/1/1982
7222	Northeast WRF	222B6110.1	250	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	750	8			6/1/1982
7223	Northeast WRF	222B6105.1	159	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	477	8			6/1/1982
7224	Northeast WRF	222B6070.1	210	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	630	8			6/1/1977
7225	Northeast WRF	222B6090.1	95	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	284	8			6/1/1977
7226	Northeast WRF	222B6140.1	281	No	3	2	3x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	844	8			6/1/1979
7227	Northeast WRF	233B5095.1	165	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	495	8			6/1/1979
7228	Northeast WRF	256A2005.1	330	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	991	8			6/1/1987
7229	Northeast WRF	256A2090.1	236	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	707	8			6/1/1973
7230	Northeast WRF	256A2075.1	28	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	83	8			6/1/1973
7231	Northeast WRF	264B8070.1	95	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	285	8	CATHERINE DR	2022	6/1/1969
7232	Northeast WRF	264B8055.1	35	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	105	8			6/1/1969
7233	Northeast WRF	264B8065.1	153	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	458	8	CATHERINE DR	2022	6/1/1969
7234	Northeast WRF	264B8095.1	333	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,000	8	ST. JOHN DR	2022	6/1/1973
7235	Northeast WRF	265A2095.1	142	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	427	8	CATHERINE DR	2022	6/1/1973
7236	Northeast WRF	178B8090.1	303	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	908	8			6/1/1980
7237	Northeast WRF	178B8120.1	254	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	763	8			6/1/1980
7238	Northeast WRF	179A2090.1	344	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,032	8			6/1/1986
7239	Northeast WRF	179A2075.1	234	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	703	8			6/1/1986
7240	Northeast WRF	189B7040.1	257	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	770	8			6/1/1979
7241	Northeast WRF	189B8040.1	359	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,076	8			6/1/1979
7242	Northeast WRF	190A2080.1	238	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	715	8			6/1/1997
7243	Northeast WRF	190A2030.1	100	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	299	8			1/1/1990
7244	Northeast WRF	200B8045.1	347	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,041	8	EAGLE ESTATES CIR S	2018	6/1/1984
7245	Northeast WRF	262A4010.1	200	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	601	8			6/1/1974
7246	Northeast WRF	253B6005.1	245	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	736	8			6/1/1978
7247	Northeast WRF	262B5040.1	396	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,188	8			6/1/1983
7248	Northeast WRF	271A4035.1	338	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,014	8			6/1/1981
7249	Northeast WRF	280A4145.1	199	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	597	8			6/1/1973
7250	Northeast WRF	280B5125.1	105	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	316	8			
7251	Northeast WRF	280B5155.1	142	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	425	8			
7252	Northeast WRF	253B8025.1	277	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	830	8			6/1/1979
7253	Northeast WRF	271B7020.1	209	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	628	8			6/1/1971
7254	Northeast WRF	263A2085.1	213	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	638	8	S LAGOON CIR	2023	6/1/1974
7255	Northeast WRF	272A2015.1	170	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	510	8			6/1/1973
7256	Northeast WRF	281A2055.1	364	No	2	4	2x4	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,091	8			6/1/1998
7257	Northeast WRF	290A3055.1	73	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	219	8			6/1/1998
7258	Northeast WRF	254B7005.1	13	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	38	8			6/1/1980
7259	Northeast WRF	232B5055.1	39	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	118	8			6/1/1979
7260	Northeast WRF	232B5090.1	38	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	113	8			6/1/1979
7261	Northeast WRF	263A3090.1	216	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	648	8	VANDERBILT DR	2020	6/1/1970
7262	Northeast WRF	263B5015.1	298	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	893	8			2/3/2006
7263	Northeast WRF	263B6050.1	66	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	199	8			6/1/1972
7264	Northeast WRF	263B6090.1	301	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	903	8	STAG RUN BLVD	2023	6/1/1981
7265	Northeast WRF	263A4085.1	210	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	629	8	STAG RUN BLVD	2023	6/1/1981
7266	Northeast WRF	264B7015.1	131	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	394	8			6/1/1983
7267	Northeast WRF	264B8105.1	380	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,139	8	LEONARD DR	2022	6/1/1973
7268	Northeast WRF	265A2050.1	128	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	384	8			6/1/1969
7269	Northeast WRF	265A2100.1	106	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	317	8	CATHERINE DR	2022	6/1/1973
7270	Northeast WRF	178B8055.1	206	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	619	8			6/1/1980
7271	Northeast WRF	179A2050.1	105	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	314	8			6/1/1986
7272	Northeast WRF	179A1100.1	21	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	63	8			6/1/1981
7273	Northeast WRF	189B8070.1	91	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	273	8			6/1/1979
7274	Northeast WRF	190A1035.1	294	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	881	8			6/1/1985
7275	Northeast WRF	273A1014.1	142	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	426	8			6/1/1974
7276	Northeast WRF	264A4065.1	281	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	843	8	EVANS DR	2022	6/1/1984
7277	Northeast WRF	264A3010.1	56	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	168	8			6/1/1986
7278	Northeast WRF	274A1045.1	211	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	632	8			6/1/1969
7279	Northeast WRF	262A1005.1	319	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	956	8			6/1/1969
7280	Northeast WRF	262A3065.1	363	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,088	8			6/1/1982
7281	Northeast WRF	262B5060.1	225	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	675	8			2/1/1996
7282	Northeast WRF	262B5050.1	24	No	3	3	3x3	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	73	8			6/1/1983
7283	Northeast WRF	280B5075.1	49	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	148	8			
7284	Northeast WRF	262A3015.1	359	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,078	8			6/1/1991
7285	Northeast WRF	253B8070.1	374	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,121	8			6/1/1979
7286	Northeast WRF	262B7005.1	377	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,132	8			6/1/1973
7287	Northeast WRF	263A2050.1	369	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,107	8	W LAGOON CIR	2023	9/1/1985
7288	Northeast WRF	232A3065.1	91	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	273	8			6/1/1973
7289	Northeast WRF	263B6060.1	45	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	134	8			6/1/1984
7290	Northeast WRF	272A3050.1	115	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	345	8	COACHMAKERS LN	2023	4/1/1981
7291	Northeast WRF	281A4015.1	142	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	427	8			6/1/1974
7292	Northeast WRF	281B6005.1	339	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,017	8			
7293	Northeast WRF	290A3030.1	274	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	822	8			6/1/1998
7294	Northeast WRF	232A3100.1	293	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	880	8			6/1/1973
7295	Northeast WRF	232A4070.1	258	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	773	8			6/1/1974
7296	Northeast WRF	221A2070.1	28	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	83	8			6/1/1979
7297	Northeast WRF	254A4015.1	302	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	906	8	ATLANTIS DR	2020	6/1/1976
7298	Northeast WRF	263A4010.1	300	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	900	8			6/1/1972
7299	Northeast WRF	263A3105.1	256	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	768	8			6/1/1971
7300	Northeast WRF	221A1095.1	234	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	703	8			6/1/1979
7301	Northeast WRF	221A2050.1	36	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	107	8			6/1/1979
7302	Northeast WRF	254B8090.1	148	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	444	8			6/1/1970
7303	Northeast WRF	263B8040.1	303	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	909	8	STAG RUN BLVD	2023	6/1/1972
7304	Northeast WRF	254B8085.1	298	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	895	8			6/1/1970
7305	Northeast WRF	221B8150.1	19	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	58	8			6/1/1979
7306	Northeast WRF	282A2090.1	16	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	48	8			
7307	Northeast WRF	233B8025.1	46	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	139	8			6/1/1986
7308	Northeast WRF	264A4050.1	24	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	73	8	EVANS DR	2022	6/1/1984
7309	Northeast WRF	200B8040.1	329	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	988	8	EAGLE ESTATES CIR S	2018	6/1/1984
7310	Northeast WRF	221B6080.1	74	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	221	8			6/1/1993
7311	Northeast WRF	282A3060.1	119	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	357	8	FAIRWOOD FOREST DR	2020	6/1/1981

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
7312	Northeast WRF	264B6075.1	352	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,055	8	EL TRINDAD DR E	2022	6/1/1984
7313	Northeast WRF	282A4085.1	197	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	591	8			6/1/1970
7314	Northeast WRF	178B6080.1	303	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	910	8	MASTERS DR	2022	2/1/1979
7315	Northeast WRF	189A1015.1	244	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	731	8			6/1/1978
7316	Northeast WRF	189A1005.1	142	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	427	8			6/1/1978
7317	Northeast WRF	189A2040.1	215	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	645	8			6/1/1977
7318	Northeast WRF	232B7055.1	288	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	865	8			6/1/1979
7319	Northeast WRF	178A4130.1	124	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	373	8			6/1/1979
7320	Northeast WRF	178A4035.1	200	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	601	8			6/1/1979
7321	Northeast WRF	178A3075.1	401	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,202	8			6/1/1980
7322	Northeast WRF	189A3080.1	306	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	917	8			6/1/1978
7323	Northeast WRF	189B6015.1	388	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,163	8	MASTERS DR	2022	6/1/1980
7324	Northeast WRF	222A3115.1	99	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	296	8	PEACHTREE CIR E	2022	6/1/1977
7325	Northeast WRF	233B5070.1	276	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	828	8			6/1/1979
7326	Northeast WRF	244B8005.1	220	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	660	8			4/1/1986
7327	Northeast WRF	252B8045.1	267	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	801	8			6/1/1970
7328	Northeast WRF	280A2005.1	95	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	284	8			
7329	Northeast WRF	281B5025.1	37	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	111	8			6/1/1969
7330	Northeast WRF	290A3060.1	282	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	846	8			6/1/1973
7331	Northeast WRF	232A3025.1	153	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	459	8			6/1/1973
7332	Northeast WRF	232A4045.1	301	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	904	8			6/1/1973
7333	Northeast WRF	254A2005.1	108	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	323	8			
7334	Northeast WRF	263A1035.1	397	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,192	8			6/1/1972
7335	Northeast WRF	263B7005.1	116	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	349	8			6/1/1970
7336	Northeast WRF	201A2016.1	149	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	446	8			
7337	Northeast WRF	254B6005.1	346	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,037	8	E SKYLINE DR	2020	6/1/1970
7338	Northeast WRF	263B8005.1	300	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	900	8			6/1/1972
7339	Northeast WRF	262B5085.1	19	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	57	8			6/1/1983
7340	Northeast WRF	273B5015.1	97	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	290	8			6/1/1974
7341	Northeast WRF	264A4025.1	264	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	792	8	EVANS DR	2022	6/1/1984
7342	Northeast WRF	211A1015.1	177	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	530	8	CLUBHOUSE DR S	2022	6/1/1977
7343	Northeast WRF	211A1020.1	400	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,200	8			6/1/1984
7344	Northeast WRF	222A2045.1	295	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	885	8	CYPRESS BEND DR	2022	6/1/1977
7345	Northeast WRF	222A2030.1	205	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	615	8	CYPRESS BEND DR	2022	6/1/1977
7346	Northeast WRF	232B7040.1	254	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	763	8			6/1/1979
7347	Northeast WRF	232B7095.1	368	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,104	8			6/1/1979
7348	Northeast WRF	233A2015.1	37	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	110	8			6/1/1986
7349	Northeast WRF	178A4115.1	166	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	498	8			6/1/1979
7350	Northeast WRF	178A3060.1	274	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	821	8			6/1/1980
7351	Northeast WRF	178B5090.1	28	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	83	8			2/1/1979
7352	Northeast WRF	178B6070.1	292	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	875	8	FAIR GREEN DR	2022	6/1/1979
7353	Northeast WRF	178B5035.1	287	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	862	8			
7354	Northeast WRF	189A4045.1	286	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	859	8	MASTERS DR	2022	6/1/1980
7355	Northeast WRF	189B5025.1	317	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	951	8	HYDE PARK DR	2022	6/1/1979
7356	Northeast WRF	200B6005.1	413	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,238	8			6/1/1978
7357	Northeast WRF	211A3025.1	190	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	571	8	SEA PINES CIR E	2022	6/1/1973
7358	Northeast WRF	211A3110.1	170	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	511	8	TIMBERLINE CT	2022	6/1/1973
7359	Northeast WRF	211A3095.1	219	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	656	8	QUAIL HOLLOW RD W	2022	6/1/1973
7360	Northeast WRF	211B5040.1	155	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	464	8	FOREST VIEW DR	2022	6/1/1973
7361	Northeast WRF	211B6090.1	238	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	713	8			6/1/1973
7362	Northeast WRF	211B5010.1	249	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	748	8			6/1/1976
7363	Northeast WRF	211B6130.1	37	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	111	8			6/1/1973
7364	Northeast WRF	222A4070.1	165	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	495	8	WINDING WOOD DR	2022	6/1/1977
7365	Northeast WRF	222B5040.1	154	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	462	8			6/1/1982
7366	Northeast WRF	222B6020.1	138	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	414	8			6/1/1977
7367	Northeast WRF	233B5120.1	139	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	416	8			6/1/1979
7368	Northeast WRF	265A4035.1	237	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	712	8			6/1/1973
7369	Northeast WRF	244B8040.1	216	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	647	8			4/1/1986
7370	Northeast WRF	244B8080.1	20	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	61	8			4/1/1986
7371	Northeast WRF	256A2050.1	337	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,011	8			6/1/1987
7372	Northeast WRF	256A2080.1	246	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	738	8			6/1/1973
7373	Northeast WRF	200B7010.1	271	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	812	8	TALON DR	2018	6/1/1984
7374	Northeast WRF	200B8005.1	73	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	219	8	EAGLE ESTATES CIR E	2018	6/1/1984
7375	Northeast WRF	200B8010.1	348	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,045	8	EAGLE ESTATES CIR S	2018	6/1/1984
7376	Northeast WRF	201A1005.1	315	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	944	8			6/1/1986
7377	Northeast WRF	211B8010.1	219	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	656	8			6/1/1976
7378	Northeast WRF	211B7110.1	173	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	518	8			6/1/1976
7379	Northeast WRF	211B7055.1	226	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	679	8			6/1/1976
7380	Northeast WRF	223A1135.1	248	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	745	8			
7381	Northeast WRF	233B7050.1	136	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	408	8			6/1/1986
7382	Northeast WRF	233B7040.1	161	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	482	8			6/1/1986
7383	Northeast WRF	234A1130.1	140	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	419	8			6/1/1998
7384	Northeast WRF	254B6040.1	404	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,213	8	E SKYLINE DR	2020	6/1/1970
7385	Northeast WRF	263B6070.1	320	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	959	8	STAG RUN BLVD	2023	6/1/1981
7386	Northeast WRF	232A1120.1	131	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	393	8			6/1/1977
7387	Northeast WRF	232A2090.1	270	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	810	8			6/1/1977
7388	Northeast WRF	263A1080.1	399	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,198	8			6/1/1974
7389	Northeast WRF	263A2080.1	41	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	123	8	S LAGOON CIR	2023	9/1/1985
7390	Northeast WRF	272A2020.1	233	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	700	8			
7391	Northeast WRF	290A1010.1	43	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	130	8			
7392	Northeast WRF	253B8040.1	46	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	139	8			6/1/1979
7393	Northeast WRF	263A4020.1	221	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	664	8			6/1/1972
7394	Northeast WRF	263A4045.1	133	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	398	8			6/1/1984
7395	Northeast WRF	281B5015.1	317	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	951	8			6/1/1969
7396	Northeast WRF	254B8100.1	237	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	711	8			6/1/1970
7397	Northeast WRF	222B5030.1	177	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	530	8			6/1/1982
7398	Northeast WRF	211B7095.1	134	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	403	8			6/1/1976
7399	Northeast WRF	212A1040.1	303	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	909	8			
7400	Northeast WRF	223A1120.1	279	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	836	8			6/1/1976
7401	Northeast WRF	223A1070.1	25	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	75	8			
7402	Northeast WRF	234A1110.1	205	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	615	8			6/1/1998
7403	Northeast WRF	264B7030.1	93	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	278	8			6/1/1983
7404	Northeast WRF	179A1120.1	35	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	105	8			6/1/1986
7405	Northeast WRF	190A2035.1	195	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	586	8			1/1/1990
7406	Northeast WRF	200B8070.1	307	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	922	8			6/1/1978
7407	Northeast WRF	223A1005.1	40	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	119	8			
7408	Northeast WRF	223A2095.1	322	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	967	8			6/1/1977
7409	Northeast WRF	223A2075.1	342	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,027	8			6/1/1977
7410	Northeast WRF	233B7060.1	412	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,235	8			6/1/1986
7411	Northeast WRF	263B5020.1	299	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	897	8			2/3/2008
7412	Northeast WRF	263B6055.1	313	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	938	8			6/1/1972
7413	Northeast WRF	244A2075.1	112	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	336	8			
7414	Northeast WRF	189B8050.1	347	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,041	8			6/1/1979
7415	Northeast WRF	211B7005.1	150	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	451	8			6/1/1976
7416	Northeast WRF	232B7020.1	373	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,118	8			6/1/1979
7417	Northeast WRF	188B5095.1	310	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	929	8			6/1/1978
7418	Northeast WRF	188B5075.1	182	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	547	8			6/1/1978
7419	Northeast WRF	273A3025.1	377	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,132	8			6/1/1970
7420	Northeast WRF	264B6150.1	68	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	203	8			6/1/1969

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
7421	Northeast WRF	264B6165.1	162	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	485	8	ST. JOHN DR	2022	6/1/1969
7422	Northeast WRF	273B5065.1	128	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	384	8			6/1/1974
7423	Northeast WRF	273B6080.1	253	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	758	8	HOLLYWOOD AVE	2020	6/1/1972
7424	Northeast WRF	273B6130.1	400	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,199	8	PARK TRAIL LN	2020	6/1/1972
7425	Northeast WRF	282A3045.1	100	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	299	8	FAIRWOOD LN	2020	6/1/1981
7426	Northeast WRF	178A1110.1	316	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	948	8			6/1/1983
7427	Northeast WRF	178A1070.1	319	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	957	8			6/1/1984
7428	Northeast WRF	178A1055.1	101	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	302	8			6/1/1984
7429	Northeast WRF	188B7085.1	413	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,239	8			6/1/1978
7430	Northeast WRF	188B7050.1	110	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	330	8			6/1/1978
7431	Northeast WRF	189A3060.1	68	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	204	8			6/1/1978
7432	Northeast WRF	189A2065.1	207	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	621	8			6/1/1977
7433	Northeast WRF	189A2060.1	389	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,167	8			6/1/1977
7434	Northeast WRF	178A4150.1	221	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	664	8			6/1/1979
7435	Northeast WRF	200A2060.1	233	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	698	8	CLUBHOUSE DR W	2022	6/1/1977
7436	Northeast WRF	200A2075.1	149	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	446	8	WESTCHESTER DR N	2022	6/1/1977
7437	Northeast WRF	200A1060.1	197	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	591	8			6/1/1977
7438	Northeast WRF	200A1080.1	231	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	692	8			6/1/1977
7439	Northeast WRF	232A4115.1	273	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	819	8			6/1/1974
7440	Northeast WRF	232A4005.1	178	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	533	8			6/1/1973
7441	Northeast WRF	263A4015.1	306	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	919	8			6/1/1972
7442	Northeast WRF	290B7045.1	36	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	108	8			6/1/1969
7443	Northeast WRF	254B8110.1	195	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	586	8			6/1/1970
7444	Northeast WRF	188B5050.1	319	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	958	8			
7445	Northeast WRF	221B8160.1	23	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	70	8			6/1/1979
7446	Northeast WRF	273A1155.1	33	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	100	8			6/1/1974
7447	Northeast WRF	244B6030.1	406	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,219	8			4/1/1986
7448	Northeast WRF	264B6010.1	326	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	978	8	ST. CROIX DR	2022	6/1/1969
7449	Northeast WRF	178A3055.1	281	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	842	8			6/1/1983
7450	Northeast WRF	188B7095.1	212	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	636	8			6/1/1978
7451	Northeast WRF	189A1045.1	231	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	693	8			6/1/1978
7452	Northeast WRF	200A2080.1	149	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	446	8	WESTCHESTER DR N	2022	6/1/1977
7453	Northeast WRF	178A4065.1	213	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	638	8			6/1/1979
7454	Northeast WRF	200B6025.1	230	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	690	8			6/1/1978
7455	Northeast WRF	211A3050.1	178	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	535	8	SEA PINES CIR W	2022	6/1/1973
7456	Northeast WRF	222B6115.1	289	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	868	8			6/1/1982
7457	Northeast WRF	233B7065.1	414	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,242	8			6/1/1986
7458	Northeast WRF	255B8015.1	82	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	247	8			6/1/1983
7459	Northeast WRF	178B8040.1	327	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	982	8			6/1/1980
7460	Northeast WRF	190A1070.1	34	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	101	8			6/1/1985
7461	Northeast WRF	253B6015.1	254	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	762	8			6/1/1978
7462	Northeast WRF	262B5045.1	44	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	133	8			6/1/1983
7463	Northeast WRF	263A2045.1	130	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	390	8	RAGLAND AVE	2023	6/1/1974
7464	Northeast WRF	263A1050.1	329	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	987	8			6/1/1974
7465	Northeast WRF	263A2070.1	304	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	912	8	S LAGOON CIR	2023	6/1/1974
7466	Northeast WRF	289B8085.1	94	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	282	8			6/1/1972
7467	Northeast WRF	253B8080.1	77	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	230	8			
7468	Northeast WRF	232A3115.1	348	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,044	8			6/1/1973
7469	Northeast WRF	263A4035.1	70	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	211	8			6/1/1984
7470	Northeast WRF	263B6035.1	204	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	611	8			6/1/1972
7471	Northeast WRF	263B6085.1	254	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	763	8	STAG RUN BLVD	2023	6/1/1981
7472	Northeast WRF	272B5015.1	159	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	478	8	COACHMAKERS LN	2023	4/1/1981
7473	Northeast WRF	263A3135.1	237	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	711	8	MANOR BLVD N	2023	6/1/1971
7474	Northeast WRF	290A3005.1	213	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	639	8			6/1/1998
7475	Northeast WRF	221A4020.1	100	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	301	8			
7476	Northeast WRF	281B7035.1	267	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	802	8			
7477	Northeast WRF	262B8035.1	28	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	83	8			6/1/1979
7478	Northeast WRF	253A4030.1	136	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	407	8			6/1/1974
7479	Northeast WRF	234A1075.1	158	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	473	8			6/1/1998
7480	Northeast WRF	264A4105.1	150	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	449	8	EVANS DR	2022	6/1/1984
7481	Northeast WRF	232B7050.1	45	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	134	8			6/1/1979
7482	Northeast WRF	233B7090.1	315	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	944	8			6/1/1986
7483	Northeast WRF	188B5160.1	361	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,082	8			6/1/1977
7484	Northeast WRF	188B5055.1	57	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	172	8			
7485	Northeast WRF	273A1075.1	49	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	146	8			6/1/1974
7486	Northeast WRF	273A1025.1	140	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	419	8			6/1/1974
7487	Northeast WRF	244B6015.1	244	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	731	8			4/1/1986
7488	Northeast WRF	264B6065.1	200	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	601	8			6/1/1969
7489	Northeast WRF	264B6080.1	312	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	935	8	CATHERINE DR	2022	6/1/1969
7490	Northeast WRF	273B8010.1	181	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	542	8	KINGSWOOD DR	2020	6/1/1972
7491	Northeast WRF	273B6015.1	250	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	749	8	KINGSWOOD DR	2020	6/1/1972
7492	Northeast WRF	273B6025.1	258	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	773	8	FAIRWOOD AVE	2020	6/1/1972
7493	Northeast WRF	178A1050.1	191	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	574	8			6/1/1984
7494	Northeast WRF	178B5145.1	164	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	492	8			6/1/1980
7495	Northeast WRF	178B8045.1	176	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	529	8			6/1/1980
7496	Northeast WRF	188B7135.1	260	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	780	8			6/1/1978
7497	Northeast WRF	188B7100.1	101	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	304	8			6/1/1978
7498	Northeast WRF	178A2115.1	161	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	484	8			12/1/2003
7499	Northeast WRF	189A1040.1	198	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	595	8			6/1/1978
7500	Northeast WRF	189A2005.1	165	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	495	8			6/1/1977
7501	Northeast WRF	200A1005.1	297	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	891	8			6/1/1977
7502	Northeast WRF	200A2055.1	290	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	869	8	TORREY PINES CT	2022	6/1/1973
7503	Northeast WRF	222A2020.1	200	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	600	8	WINDING WOOD DR	2022	6/1/1977
7504	Northeast WRF	233A1050.1	409	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,226	8			6/1/1979
7505	Northeast WRF	178A4055.1	297	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	891	8			6/1/1979
7506	Northeast WRF	178A4020.1	270	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	809	8			6/1/1979
7507	Northeast WRF	178A3065.1	291	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	874	8			6/1/1980
7508	Northeast WRF	178A3070.1	253	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	760	8			6/1/1980
7509	Northeast WRF	178B6100.1	412	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,236	8	HYDE PARK DR	2022	6/1/1979
7510	Northeast WRF	178B6135.1	184	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	551	8	HYDE PARK DR	2022	6/1/1979
7511	Northeast WRF	178B6075.1	302	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	905	8	HYDE PARK DR	2022	6/1/1979
7512	Northeast WRF	200A3005.1	327	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	980	8	HYDE PARK DR	2022	6/1/1980
7513	Northeast WRF	189B6005.1	334	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,003	8	TRAIL GLEN WAY	2022	6/1/1980
7514	Northeast WRF	189B6020.1	399	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,196	8	HYDE PARK DR	2022	6/1/1979
7515	Northeast WRF	189B6055.1	367	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,101	8			6/1/1979
7516	Northeast WRF	200B6020.1	308	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	923	8			6/1/1978
7517	Northeast WRF	211A3020.1	154	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	462	8	SEA PINES CIR E	2022	6/1/1973
7518	Northeast WRF	211B6070.1	138	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	414	8	LONG VIEW DR	2022	6/1/1973
7519	Northeast WRF	211B7045.1	302	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	907	8			6/1/1976
7520	Northeast WRF	222A3065.1	144	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	431	8	PEACHTREE CIR	2022	6/1/1977
7521	Northeast WRF	222A3040.1	335	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,006	8	PEACHTREE CIR	2022	6/1/1977
7522	Northeast WRF	222A3095.1	100	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	300	8	PEACHTREE CIR E	2022	6/1/1977
7523	Northeast WRF	222B5095.1	143	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	430	8			6/1/1982
7524	Northeast WRF	222B5065.1	57	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	171	8			6/1/1982
7525	Northeast WRF	222B5050.1	357	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,071	8			6/1/1982
7526	Northeast WRF	222B6010.1	163	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	488	8			6/1/1982
7527	Northeast WRF	222B7040.1	82	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	247	8			6/1/1976
7528	Northeast WRF	233B7015.1	104	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	311	8			6/1/1986
7529	Northeast WRF	244B8055.1	184	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	553	8			4/1/1986

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
7530	Northeast WRF	244B8010.1	408	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,225	8			4/1/1986
7531	Northeast WRF	245A1025.1	235	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	706	8			6/1/1987
7532	Northeast WRF	245A1010.1	20	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	61	8			6/1/1987
7533	Northeast WRF	264B8020.1	156	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	468	8	ST. CROIX DR	2022	6/1/1969
7534	Northeast WRF	264B8005.1	254	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	761	8	ST. CROIX DR	2022	6/1/1974
7535	Northeast WRF	264B8010.1	313	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	940	8	ST. CROIX DR	2022	6/1/1974
7536	Northeast WRF	265A1055.1	212	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	635	8			6/1/1972
7537	Northeast WRF	264B8090.1	146	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	438	8	CATHERINE DR	2022	6/1/1973
7538	Northeast WRF	264B8045.1	219	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	656	8			6/1/1969
7539	Northeast WRF	274A3015.1	129	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	386	8			6/1/1973
7540	Northeast WRF	178B8125.1	301	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	903	8			6/1/1979
7541	Northeast WRF	178B7120.1	146	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	439	8			6/1/1980
7542	Northeast WRF	178B7110.1	169	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	508	8			6/1/1980
7543	Northeast WRF	178B7065.1	399	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,196	8			6/1/1980
7544	Northeast WRF	178B7080.1	172	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	517	8			6/1/1980
7545	Northeast WRF	179A2030.1	382	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,147	8			6/1/1986
7546	Northeast WRF	189B7045.1	402	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,207	8			6/1/1980
7547	Northeast WRF	190A1110.1	243	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	728	8			6/1/1987
7548	Northeast WRF	190A1065.1	65	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	194	8			6/1/1985
7549	Northeast WRF	200B7020.1	177	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	532	8	EAGLE ESTATES CIR E	2018	6/1/1984
7550	Northeast WRF	201A1015.1	137	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	410	8			6/1/1986
7551	Northeast WRF	201A1010.1	302	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	907	8			6/1/1986
7552	Northeast WRF	222B8055.1	190	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	569	8			6/1/1977
7553	Northeast WRF	222B8140.1	390	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,171	8			6/1/1979
7554	Northeast WRF	222B7030.1	211	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	632	8			6/1/1976
7555	Northeast WRF	222B7095.1	153	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	458	8			6/1/1976
7556	Northeast WRF	222B8005.1	263	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	788	8			6/1/1976
7557	Northeast WRF	223A1155.1	299	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	896	8			6/1/1976
7558	Northeast WRF	223A2035.1	290	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	871	8			6/1/1976
7559	Northeast WRF	223A2005.1	70	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	210	8			
7560	Northeast WRF	223A1035.1	317	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	951	8			6/1/1976
7561	Northeast WRF	232A3120.1	404	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,213	8			6/1/1973
7562	Northeast WRF	232A4025.1	389	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,167	8			6/1/1973
7563	Northeast WRF	254A4050.1	40	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	120	8			6/1/1986
7564	Northeast WRF	281A2070.1	68	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	204	8			6/1/1998
7565	Northeast WRF	222B5035.1	149	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	447	8			6/1/1982
7566	Northeast WRF	244B6055.1	198	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	593	8			6/1/1986
7567	Northeast WRF	244B6070.1	318	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	955	8			6/1/1986
7568	Northeast WRF	264B6130.1	350	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,050	8	EL TRINDAD DR E	2022	6/1/1984
7569	Northeast WRF	264B6135.1	92	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	275	8			6/1/1969
7570	Northeast WRF	273A4050.1	225	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	675	8	BEACHWOOD AVE	2020	6/1/1972
7571	Northeast WRF	273B6070.1	239	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	717	8	HOLLYWOOD AVE	2020	6/1/1972
7572	Northeast WRF	273B8075.1	222	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	666	8	NUTWOOD ST	2020	6/1/1972
7573	Northeast WRF	282A3095.1	134	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	402	8	FAIRWOOD FOREST DR	2020	6/1/1981
7574	Northeast WRF	282A4045.1	301	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	902	8			
7575	Northeast WRF	178A4030.1	358	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,073	8			6/1/1983
7576	Northeast WRF	178A2085.1	151	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	453	8			6/1/1983
7577	Northeast WRF	178A2055.1	234	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	703	8			6/1/1983
7578	Northeast WRF	280A4105.1	259	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	776	8			6/1/1973
7579	Northeast WRF	280B6115.1	209	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	628	8			
7580	Northeast WRF	263B5035.1	406	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,218	8			2/3/2008
7581	Northeast WRF	252B8005.1	258	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	773	8			6/1/1970
7582	Northeast WRF	263A1085.1	390	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,170	8			6/1/1974
7583	Northeast WRF	263A1115.1	184	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	553	8			6/1/1974
7584	Northeast WRF	280B8065.1	256	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	768	8			6/1/1986
7585	Northeast WRF	280B6135.1	180	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	540	8			6/1/1984
7586	Northeast WRF	232A3075.1	178	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	533	8			6/1/1973
7587	Northeast WRF	254B6035.1	250	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	751	8	SUMMIT DR	2020	6/1/1970
7588	Northeast WRF	263A3010.1	227	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	681	8			6/1/1970
7589	Northeast WRF	263A4060.1	120	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	361	8			6/1/1984
7590	Northeast WRF	290A3100.1	239	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	716	8			6/1/1972
7591	Northeast WRF	290A3010.1	25	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	74	8			6/1/1998
7592	Northeast WRF	221A1090.1	218	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	655	8			6/1/1978
7593	Northeast WRF	221A3035.1	75	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	225	8			2/1/1999
7594	Northeast WRF	221A2045.1	37	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	110	8			6/1/1979
7595	Northeast WRF	222B8145.1	19	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	57	8			6/1/1986
7596	Northeast WRF	222B8135.1	407	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,220	8			6/1/1979
7597	Northeast WRF	188B5155.1	406	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,218	8			6/1/1977
7598	Northeast WRF	264A2060.1	77	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	232	8			6/1/1983
7599	Northeast WRF	273A2020.1	27	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	81	8			6/1/1973
7600	Northeast WRF	273A1110.1	162	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	487	8			6/1/1974
7601	Northeast WRF	264B6070.1	274	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	823	8			6/1/1972
7602	Northeast WRF	264B6005.1	200	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	599	8	ST. CROIX DR	2022	6/1/1969
7603	Northeast WRF	273B6010.1	265	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	794	8	EDENWOOD ST	2020	6/1/1972
7604	Northeast WRF	178A2020.1	281	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	843	8			6/1/1983
7605	Northeast WRF	200A2085.1	249	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	748	8	CLUBHOUSE DR W	2022	6/1/1977
7606	Northeast WRF	221B8155.1	384	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,151	8			6/1/1979
7607	Northeast WRF	222A2005.1	142	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	427	8	WINDING WOOD DR	2022	6/1/1977
7608	Northeast WRF	211B6085.1	244	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	732	8			6/1/1973
7609	Northeast WRF	222A4030.1	115	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	345	8	WINDING WOOD DR	2022	6/1/1977
7610	Northeast WRF	222A4110.1	170	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	510	8	CYPRESS BEND DR	2022	6/1/1977
7611	Northeast WRF	222B5070.1	123	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	370	8			6/1/1982
7612	Northeast WRF	234A2085.1	336	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,008	8			7/1/1980
7613	Northeast WRF	265A4040.1	176	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	528	8			6/1/1973
7614	Northeast WRF	189B7020.1	207	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	621	8			6/1/1979
7615	Northeast WRF	190A2070.1	250	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	750	8			6/1/1997
7616	Northeast WRF	200B8015.1	214	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	641	8	EAGLE ESTATES CIR E	2018	6/1/1984
7617	Northeast WRF	264B6100.1	12	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	37	8			6/1/1969
7618	Northeast WRF	273B5075.1	20	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	60	8			6/1/1974
7619	Northeast WRF	252B8025.1	258	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	775	8			6/1/1970
7620	Northeast WRF	232A2095.1	301	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	902	8			6/1/1977
7621	Northeast WRF	253B6030.1	58	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	175	8			6/1/1978
7622	Northeast WRF	253B6035.1	169	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	508	8			6/1/1978
7623	Northeast WRF	262B5075.1	23	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	70	8			6/1/1983
7624	Northeast WRF	189B7025.1	175	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	525	8			6/1/1984
7625	Northeast WRF	253B6040.1	321	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	963	8			6/1/1978
7626	Northeast WRF	232A2035.1	77	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	232	8			6/1/1977
7627	Northeast WRF	262A4015.1	67	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	202	8			6/1/1974
7628	Northeast WRF	280B8110.1	300	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	899	8			6/1/1984
7629	Northeast WRF	289B8045.1	322	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	966	8			2/3/2008
7630	Northeast WRF	263A2095.1	215	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	645	8	S LAGOON CIR	2023	9/1/1985
7631	Northeast WRF	280B7020.1	131	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	393	8			
7632	Northeast WRF	281A3030.1	168	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	503	8			6/1/1978
7633	Northeast WRF	263B7045.1	179	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	538	8			6/1/1972
7634	Northeast WRF	232A3035.1	163	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	490	8			6/1/1973
7635	Northeast WRF	263B5050.1	172	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	516	8			2/3/2008
7636	Northeast WRF	263B5065.1	53	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	158	8			2/3/2008
7637	Northeast WRF	263B6045.1	54	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	162	8			6/1/1984
7638	Northeast WRF	263A4025.1	352	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,055	8			6/1/1972

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
7639	Northeast WRF	281A3085.1	166	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	499	8			6/1/1969
7640	Northeast WRF	281A4025.1	169	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	507	8			6/1/1974
7641	Northeast WRF	281B5030.1	165	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	494	8			6/1/1969
7642	Northeast WRF	232A4080.1	116	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	348	8			6/1/1974
7643	Northeast WRF	263A3080.1	250	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	750	8			6/1/1971
7644	Northeast WRF	263A3055.1	254	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	761	8			6/1/1971
7645	Northeast WRF	263A4080.1	223	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	670	8	WETHERINGTON RD	2023	6/1/1984
7646	Northeast WRF	221A3080.1	168	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	504	8			2/1/1999
7647	Northeast WRF	254B8080.1	305	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	915	8			6/1/1970
7648	Northeast WRF	290B7035.1	51	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	153	8			
7649	Northeast WRF	263B7081.1	172	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	517	8			6/1/1972
7650	Northeast WRF	254B8105.1	323	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	968	8	E SKYLINE DR	2020	6/1/1970
7651	Northeast WRF	263B8080.1	290	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	869	8	STAG RUN BLVD	2023	6/1/1972
7652	Northeast WRF	263B8095.1	35	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	106	8	STAG RUN BLVD	2023	6/1/1993
7653	Northeast WRF	263B7025.1	80	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	239	8			6/1/1970
7654	Northeast WRF	263B7015.1	400	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,200	8			6/1/1970
7655	Northeast WRF	264A3200.1	33	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	99	8			6/1/1984
7656	Northeast WRF	263A1040.1	82	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	246	8			6/1/1974
7657	Northeast WRF	200B7005.1	328	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	985	8	EAGLE ESTATES CIR W	2018	6/1/1984
7658	Northeast WRF	221B6045.1	55	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	164	8			6/1/1993
7659	Northeast WRF	272B7050.1	210	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	629	8			6/1/1973
7660	Northeast WRF	273A1145.1	93	No	2	4	2x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	278	8			6/1/1973
7661	Northeast WRF	273A1090.1	85	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	255	8			6/1/1974
7662	Northeast WRF	273A1060.1	109	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	328	8			6/1/1974
7663	Northeast WRF	273A1115.1	381	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,142	8			
7664	Northeast WRF	282A4070.1	328	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	984	8			6/1/1970
7665	Northeast WRF	178A2030.1	374	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,123	8			6/1/1983
7666	Northeast WRF	178A2050.1	336	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,007	8			6/1/1983
7667	Northeast WRF	178A1105.1	378	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,133	8			6/1/1983
7668	Northeast WRF	178A1065.1	196	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	589	8			6/1/1983
7669	Northeast WRF	233B5005.1	158	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	475	8			6/1/1982
7670	Northeast WRF	222B6135.1	128	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	384	8			6/1/1982
7671	Northeast WRF	178A1060.1	150	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	450	8			6/1/1984
7672	Northeast WRF	178A1085.1	200	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	599	8			6/1/1983
7673	Northeast WRF	188B7065.1	205	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	615	8			6/1/1978
7674	Northeast WRF	189A1030.1	186	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	557	8			6/1/1978
7675	Northeast WRF	189A1025.1	299	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	898	8			6/1/1978
7676	Northeast WRF	189A1050.1	226	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	679	8			6/1/1978
7677	Northeast WRF	189A2020.1	47	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	141	8			6/1/1977
7678	Northeast WRF	200A1010.1	234	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	703	8			6/1/1977
7679	Northeast WRF	189A2085.1	213	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	640	8			6/1/1977
7680	Northeast WRF	189A2080.1	217	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	652	8			6/1/1977
7681	Northeast WRF	200A1070.1	373	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,119	8	AUGUSTA DR S	2022	6/1/1977
7682	Northeast WRF	200A2025.1	299	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	896	8	CLUBHOUSE DR W	2022	6/1/1977
7683	Northeast WRF	200A2030.1	296	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	888	8	COUNTRYCLUB DR	2022	6/1/1977
7684	Northeast WRF	200A1055.1	196	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	588	8			6/1/1977
7685	Northeast WRF	178A3030.1	351	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,053	8			6/1/1980
7686	Northeast WRF	178A3090.1	284	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	853	8			6/1/1980
7687	Northeast WRF	178B6130.1	116	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	347	8	HYDE PARK DR	2022	6/1/1979
7688	Northeast WRF	178B5040.1	232	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	697	8			
7689	Northeast WRF	178B5055.1	187	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	561	8			
7690	Northeast WRF	189B6010.1	403	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,210	8	HYDE PARK DR	2022	6/1/1979
7691	Northeast WRF	200B6040.1	350	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,049	8			6/1/1978
7692	Northeast WRF	200B6060.1	289	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	867	8			6/1/1978
7693	Northeast WRF	200B6090.1	103	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	309	8			6/1/1978
7694	Northeast WRF	200B6085.1	166	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	499	8			6/1/1976
7695	Northeast WRF	211A3040.1	326	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	979	8	SEA PINES CIR E	2022	6/1/1973
7696	Northeast WRF	211A3030.1	161	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	484	8	SEA PINES CIR E	2022	6/1/1973
7697	Northeast WRF	211B6045.1	149	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	447	8	LONG VIEW DR	2022	6/1/1973
7698	Northeast WRF	211B6105.1	393	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,179	8			6/1/1973
7699	Northeast WRF	222B5090.1	214	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	642	8			6/1/1982
7700	Northeast WRF	222B6085.1	226	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	677	8			6/1/1982
7701	Northeast WRF	222B6125.1	160	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	481	8			6/1/1982
7702	Northeast WRF	222B6030.1	136	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	409	8			6/1/1982
7703	Northeast WRF	222B6025.1	283	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	848	8			6/1/1977
7704	Northeast WRF	222B6055.1	379	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,138	8			6/1/1977
7705	Northeast WRF	233B5090.1	90	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	271	8			6/1/1979
7706	Northeast WRF	233B5105.1	377	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,130	8			6/1/1979
7707	Northeast WRF	233B8050.1	401	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,203	8			6/1/1986
7708	Northeast WRF	256A2045.1	42	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	125	8			6/1/1987
7709	Northeast WRF	256A2060.1	143	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	428	8			6/1/1987
7710	Northeast WRF	265A2070.1	27	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	81	8			6/1/1969
7711	Northeast WRF	179A2040.1	425	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,274	8			6/1/1986
7712	Northeast WRF	179A2060.1	349	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,048	8			6/1/1986
7713	Northeast WRF	179A2020.1	226	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	678	8			6/1/1986
7714	Northeast WRF	189B7010.1	387	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,162	8			6/1/1980
7715	Northeast WRF	189B7055.1	86	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	258	8			6/1/1979
7716	Northeast WRF	189B7050.1	221	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	664	8			6/1/1980
7717	Northeast WRF	189B8055.1	83	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	248	8			6/1/1979
7718	Northeast WRF	189B8080.1	424	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,273	8			6/1/1979
7719	Northeast WRF	190A2065.1	135	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	405	8			6/1/1997
7720	Northeast WRF	190A1040.1	123	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	370	8			6/1/1985
7721	Northeast WRF	190A1045.1	120	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	360	8			6/1/1985
7722	Northeast WRF	190A1075.1	301	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	903	8			6/1/1985
7723	Northeast WRF	201A2035.1	224	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	671	8			
7724	Northeast WRF	222B8110.1	173	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	519	8			6/1/1977
7725	Northeast WRF	222B7115.1	397	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,190	8			6/1/1976
7726	Northeast WRF	222B8030.1	108	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	325	8			6/1/1976
7727	Northeast WRF	222B8130.1	305	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	915	8			6/1/1977
7728	Northeast WRF	223A2080.1	301	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	903	8			6/1/1977
7729	Northeast WRF	223A1080.1	366	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,099	8			
7730	Northeast WRF	233B7020.1	313	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	940	8			6/1/1986
7731	Northeast WRF	253B6020.1	183	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	550	8			6/1/1978
7732	Northeast WRF	253B6055.1	202	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	606	8			6/1/1978
7733	Northeast WRF	262A3045.1	134	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	401	8			6/1/1982
7734	Northeast WRF	271A4040.1	89	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	267	8			6/1/1981
7735	Northeast WRF	280B5060.1	122	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	366	8			
7736	Northeast WRF	263A1015.1	217	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	651	8			6/1/1972
7737	Northeast WRF	262B7070.1	250	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	750	8			6/1/1979
7738	Northeast WRF	232A2070.1	255	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	765	8			6/1/1977
7739	Northeast WRF	232A2115.1	121	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	364	8			6/1/1977
7740	Northeast WRF	254B8025.1	206	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	617	8			6/1/1975
7741	Northeast WRF	254B7030.1	340	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,020	8			6/1/1975
7742	Northeast WRF	253B8020.1	193	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	580	8			6/1/1979
7743	Northeast WRF	232A3080.1	89	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	266	8			6/1/1973
7744	Northeast WRF	254B6030.1	287	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	861	8	RAYMONT DR	2020	6/1/1970
7745	Northeast WRF	263A3030.1	222	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	665	8			6/1/1970
7746	Northeast WRF	263A3075.1	295	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	884	8	VANDERBILT DR	2020	6/1/1970
7747	Northeast WRF	263B6080.1	289	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	868	8	STAG RUN BLVD	2023	6/1/1981

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
7748	Northeast WRF	272B5040.1	197	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	592	8	MISTY PLATEAU TRL	2023	4/1/1981
7749	Northeast WRF	272B5105.1	373	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,120	8	OLD COACH TRL	2023	4/1/1981
7750	Northeast WRF	290A3070.1	280	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	841	8			6/1/1973
7751	Northeast WRF	232A2050.1	287	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	860	8			6/1/1977
7752	Northeast WRF	254A4005.1	286	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	857	8	AMERICUS DR	2020	6/1/1986
7753	Northeast WRF	232A4125.1	304	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	911	8			6/1/1974
7754	Northeast WRF	221A4055.1	48	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	145	8			
7755	Northeast WRF	263B7020.1	288	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	865	8	E SKYLINE DR	2020	6/1/1970
7756	Northeast WRF	264A4030.1	259	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	777	8	EVANS DR	2022	6/1/1984
7757	Northeast WRF	264A3050.1	109	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	328	8			6/1/1984
7758	Northeast WRF	264A3150.1	38	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	113	8			6/1/1984
7759	Northeast WRF	211A1053.1	191	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	573	8			6/1/1984
7760	Northeast WRF	262A4004.1	268	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	805	8			8/13/2015
7761	Northeast WRF	178B8070.1	313	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	938	8	HYDE PARK DR	2022	6/1/1979
7762	Northeast WRF	264B6015.1	345	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,035	8	ST. CROIX DR	2022	6/1/1969
7763	Northeast WRF	188B5175.1	22	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	67	8			6/1/1977
7764	Northeast WRF	273A3145.1	203	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	609	8			6/1/1970
7765	Northeast WRF	244B6020.1	286	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	857	8			4/1/1986
7766	Northeast WRF	200A4025.1	257	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	770	8	TORREY PINES CT	2022	6/1/1973
7767	Northeast WRF	178A2040.1	308	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	924	8			6/1/1983
7768	Northeast WRF	233B5025.1	176	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	529	8			6/1/1982
7769	Northeast WRF	178A1030.1	41	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	124	8			6/1/1984
7770	Northeast WRF	188B7115.1	168	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	504	8			6/1/1978
7771	Northeast WRF	188B7075.1	88	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	263	8			6/1/1978
7772	Northeast WRF	200A1025.1	195	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	585	8	AUGUSTA DR W	2022	6/1/1977
7773	Northeast WRF	189A3065.1	295	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	885	8			6/1/1978
7774	Northeast WRF	200B6050.1	329	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	986	8			6/1/1978
7775	Northeast WRF	211B5020.1	151	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	453	8	QUAIL HOLLOW RD W	2022	6/1/1973
7776	Northeast WRF	211B5035.1	192	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	576	8	CEDAR RUN CT	2022	6/1/1973
7777	Northeast WRF	211B6035.1	224	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	672	8	LONG VIEW DR	2022	6/1/1973
7778	Northeast WRF	211B6040.1	186	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	558	8	LONG VIEW DR	2022	6/1/1973
7779	Northeast WRF	222A4015.1	192	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	577	8	WINDING WOOD DR	2022	6/1/1977
7780	Northeast WRF	222B6050.1	368	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,103	8			6/1/1977
7781	Northeast WRF	245A1005.1	312	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	937	8			6/1/1987
7782	Northeast WRF	264B8030.1	354	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,061	8	SARAH DR	2022	6/1/1974
7783	Northeast WRF	264B8110.1	261	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	782	8	ST. JOHN DR	2022	6/1/1973
7784	Northeast WRF	178B7105.1	346	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,037	8			6/1/1980
7785	Northeast WRF	190A2075.1	302	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	905	8			6/1/1997
7786	Northeast WRF	211B7115.1	230	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	689	8			6/1/1976
7787	Northeast WRF	211B7025.1	200	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	599	8			6/1/1976
7788	Northeast WRF	222B8060.1	140	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	420	8			6/1/1977
7789	Northeast WRF	222B7120.1	140	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	420	8			6/1/1976
7790	Northeast WRF	223A1020.1	240	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	720	8			
7791	Northeast WRF	223A1030.1	298	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	893	8			
7792	Northeast WRF	234A1010.1	151	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	453	8			6/1/1987
7793	Northeast WRF	289B8005.1	350	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,050	8			2/3/2008
7794	Northeast WRF	262B7080.1	249	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	746	8			6/1/1979
7795	Northeast WRF	263A2090.1	260	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	780	8	S LAGOON CIR	2023	6/1/1974
7796	Northeast WRF	281A2060.1	390	No	2	4	2x4	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,169	8			6/1/1998
7797	Northeast WRF	253B8100.1	50	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	150	8			6/1/1971
7798	Northeast WRF	253B8005.1	225	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	675	8			6/1/1979
7799	Northeast WRF	232B5045.1	36	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	108	8			6/1/1979
7800	Northeast WRF	263A3015.1	225	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	675	8			6/1/1970
7801	Northeast WRF	263B5025.1	229	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	688	8			2/3/2006
7802	Northeast WRF	263A4090.1	149	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	446	8	STAG RUN BLVD	2023	6/1/1981
7803	Northeast WRF	263B6065.1	320	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	961	8			6/1/1984
7804	Northeast WRF	263B6040.1	295	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	884	8			6/1/1972
7805	Northeast WRF	290B5005.1	43	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	128	8			
7806	Northeast WRF	232A3070.1	304	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	911	8			6/1/1973
7807	Northeast WRF	232A3135.1	269	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	807	8			6/1/1973
7808	Northeast WRF	232A4040.1	279	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	838	8			6/1/1974
7809	Northeast WRF	263A4075.1	67	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	202	8	WETHERINGTON RD	2023	6/1/1984
7810	Northeast WRF	254A4020.1	299	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	897	8			6/1/1986
7811	Northeast WRF	232A3060.1	94	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	281	8			6/1/1973
7812	Northeast WRF	281A4070.1	137	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	410	8			6/1/1974
7813	Northeast WRF	221A1015.1	68	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	205	8			6/1/1979
7814	Northeast WRF	221A4025.1	92	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	276	8			
7815	Northeast WRF	221A1055.1	298	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	893	8			6/1/1979
7816	Northeast WRF	290B7055.1	183	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	550	8			6/1/1969
7817	Northeast WRF	290B7110.1	242	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	725	8			6/1/1969
7818	Northeast WRF	263B8055.1	288	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	863	8	STAG RUN BLVD	2023	6/1/1981
7819	Northeast WRF	290B7080.1	176	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	528	8			
7820	Northeast WRF	281B6012.1	207	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	622	8			
7821	Northeast WRF	201A2017.1	591	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,772	8			
7822	Northeast WRF	263B8085.1	454	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,361	8	STAG RUN BLVD	2023	6/1/1981
7823	Northeast WRF	263B8090.1	318	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	954	8	STAG RUN BLVD	2023	6/1/1981
7824	Northeast WRF	290B7075.1	40	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	119	8			
7825	Northeast WRF	290B7065.1	71	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	212	8			
7826	Northeast WRF	263A4065.1	83	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	249	8	WETHERINGTON RD	2023	6/1/1984
7827	Northeast WRF	263A3095.1	143	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	428	8			6/1/1971
7828	Northeast WRF	221A3045.1	67	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	200	8			2/1/1999
7829	Northeast WRF	263B7040.1	390	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,170	8			6/1/1972
7830	Northeast WRF	263B7080.1	125	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	375	8			6/1/1972
7831	Northeast WRF	281B6007.1	89	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	267	8			
7832	Northeast WRF	281B7030.1	600	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,800	8			
7833	Northeast WRF	178B8105.1	303	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	910	8			6/1/1979
7834	Northeast WRF	179A2045.1	330	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	989	8			6/1/1986
7835	Northeast WRF	179A1035.1	17	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	52	8			6/1/1981
7836	Northeast WRF	189B7005.1	300	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	899	8			6/1/1979
7837	Northeast WRF	280B5003.1	124	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	373	8			
7838	Northeast WRF	222B8085.1	279	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	836	8			6/1/1977
7839	Northeast WRF	188B5090.1	68	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	205	8			6/1/1978
7840	Northeast WRF	188B5145.1	237	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	711	8			6/1/1978
7841	Northeast WRF	221B6030.1	177	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	530	8			6/1/1993
7842	Northeast WRF	244A2055.1	49	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	147	8			
7843	Northeast WRF	273A1135.1	257	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	771	8			6/1/1970
7844	Northeast WRF	282A3070.1	147	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	442	8	FAIRWOOD FOREST DR	2020	6/1/1981
7845	Northeast WRF	264B6040.1	78	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	233	8	ST. CROIX DR	2022	6/1/1969
7846	Northeast WRF	273B6005.1	264	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	791	8	GRANTWOOD AVE	2020	6/1/1972
7847	Northeast WRF	273B6020.1	261	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	783	8	GRANTWOOD AVE	2020	6/1/1972
7848	Northeast WRF	273B6035.1	345	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,035	8	KINGSWOOD DR	2020	6/1/1972
7849	Northeast WRF	273B6140.1	51	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	152	8	NUTWOOD ST	2020	6/1/1972
7850	Northeast WRF	282A3085.1	152	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	456	8	FAIRWOOD FOREST DR	2020	6/1/1981
7851	Northeast WRF	282B5005.1	163	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	489	8	PARK TRAIL LN	2020	6/1/1972
7852	Northeast WRF	178A4145.1	238	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	713	8			6/1/1979
7853	Northeast WRF	178A2075.1	328	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	983	8			6/1/1984
7854	Northeast WRF	178A2095.1	188	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	565	8			6/1/1983
7855	Northeast WRF	178A1090.1	238	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	713	8			6/1/1983
7856	Northeast WRF	178B6035.1	174	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	521	8	MASTERS DR	2022	2/1/1979

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
7857	Northeast WRF	233B5040.1	61	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	184	8			6/1/1982
7858	Northeast WRF	178A2110.1	263	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	788	8			12/1/2003
7859	Northeast WRF	188B7030.1	141	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	424	8			6/1/1978
7860	Northeast WRF	188B7025.1	333	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	999	8			6/1/1978
7861	Northeast WRF	189A1020.1	200	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	599	8			6/1/1978
7862	Northeast WRF	189A2095.1	246	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	738	8			6/1/1977
7863	Northeast WRF	233A1060.1	47	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	140	8			6/1/1979
7864	Northeast WRF	178A4005.1	267	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	800	8			6/1/1979
7865	Northeast WRF	189A3015.1	274	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	822	8			6/1/1978
7866	Northeast WRF	189A3055.1	138	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	415	8			6/1/1978
7867	Northeast WRF	189A4030.1	126	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	379	8			6/1/1980
7868	Northeast WRF	200A4030.1	165	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	496	8	WESTCHESTER DR N	2022	6/1/1973
7869	Northeast WRF	200A4050.1	222	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	666	8	BURNING TREE LN	2022	6/1/1973
7870	Northeast WRF	200A4035.1	251	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	752	8	BURNING TREE LN	2022	6/1/1973
7871	Northeast WRF	200B5055.1	258	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	775	8	EAGLE ESTATES CIR N	2018	6/1/1978
7872	Northeast WRF	200B6065.1	186	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	557	8			6/1/1978
7873	Northeast WRF	200B8030.1	408	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,225	8	EAGLE ESTATES CIR W	2018	6/1/1984
7874	Northeast WRF	211B6030.1	117	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	351	8	FOREST VIEW DR	2022	6/1/1973
7875	Northeast WRF	211B6075.1	169	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	508	8	QUAIL HOLLOW RD E	2022	6/1/1973
7876	Northeast WRF	222A3165.1	108	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	325	8	WINDING WOOD DR	2022	6/1/1977
7877	Northeast WRF	222A4050.1	168	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	504	8	WINDING WOOD DR	2022	6/1/1977
7878	Northeast WRF	222A4080.1	56	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	169	8	WINDING WOOD DR	2022	6/1/1977
7879	Northeast WRF	222B5045.1	298	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	893	8			6/1/1982
7880	Northeast WRF	222B5110.1	210	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	629	8			6/1/1982
7881	Northeast WRF	222B6120.1	305	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	916	8			6/1/1977
7882	Northeast WRF	222B5060.1	240	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	720	8			6/1/1976
7883	Northeast WRF	222B7035.1	22	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	65	8			6/1/1976
7884	Northeast WRF	233B5050.1	171	No	3	1	3x1	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	513	8			6/1/1979
7885	Northeast WRF	233B5065.1	207	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	622	8			6/1/1979
7886	Northeast WRF	233B5085.1	350	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,050	8			6/1/1979
7887	Northeast WRF	234A2105.1	337	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,011	8			6/1/1980
7888	Northeast WRF	244B8050.1	183	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	550	8			4/1/1986
7889	Northeast WRF	256A2095.1	300	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	901	8			6/1/1973
7890	Northeast WRF	256A2115.1	154	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	463	8			6/1/1973
7891	Northeast WRF	178B8060.1	170	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	510	8			6/1/1980
7892	Northeast WRF	178B8095.1	143	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	428	8			6/1/1980
7893	Northeast WRF	178B8110.1	66	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	198	8			6/1/1979
7894	Northeast WRF	179A2065.1	332	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	996	8			6/1/1986
7895	Northeast WRF	179A1045.1	108	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	324	8			6/1/1981
7896	Northeast WRF	179A1115.1	110	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	331	8			6/1/1986
7897	Northeast WRF	179A1135.1	338	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,014	8			6/1/1986
7898	Northeast WRF	189B7035.1	29	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	88	8			6/1/1984
7899	Northeast WRF	189B7075.1	302	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	906	8			6/1/1979
7900	Northeast WRF	189B8025.1	370	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,111	8			6/1/1979
7901	Northeast WRF	189B8065.1	235	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	706	8			6/1/1979
7902	Northeast WRF	189B8060.1	75	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	225	8			6/1/1979
7903	Northeast WRF	200B7015.1	230	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	690	8	EAGLE TRL	2018	6/1/1984
7904	Northeast WRF	200B8050.1	313	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	940	8	EAGLE ESTATES CIR S	2018	6/1/1984
7905	Northeast WRF	211B8005.1	262	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	786	8			6/1/1976
7906	Northeast WRF	211B8015.1	296	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	888	8			6/1/1976
7907	Northeast WRF	211B7080.1	126	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	379	8			6/1/1976
7908	Northeast WRF	212A1050.1	115	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	345	8			
7909	Northeast WRF	222B8010.1	132	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	397	8			6/1/1977
7910	Northeast WRF	222B8045.1	249	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	747	8			6/1/1977
7911	Northeast WRF	222B8080.1	253	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	759	8			6/1/1977
7912	Northeast WRF	222B8100.1	93	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	278	8			6/1/1977
7913	Northeast WRF	222B8125.1	273	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	818	8			6/1/1977
7914	Northeast WRF	222B7110.1	119	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	358	8			6/1/1976
7915	Northeast WRF	223A2010.1	78	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	234	8			6/1/1976
7916	Northeast WRF	223A1015.1	210	No	3	3	3x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	630	8			
7917	Northeast WRF	233B7005.1	99	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	298	8			6/1/1986
7918	Northeast WRF	233B7030.1	203	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	609	8			6/1/1986
7919	Northeast WRF	233B8040.1	396	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,189	8			6/1/1986
7920	Northeast WRF	233B8015.1	384	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,151	8			6/1/1986
7921	Northeast WRF	234A1005.1	71	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	213	8			6/1/1987
7922	Northeast WRF	234A1030.1	160	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	481	8			6/1/1977
7923	Northeast WRF	234A1125.1	251	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	753	8			6/1/1998
7924	Northeast WRF	264B6045.1	136	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	408	8	ST. CROIX DR	2022	6/1/1969
7925	Northeast WRF	264A3115.1	31	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	93	8			6/1/1984
7926	Northeast WRF	264A3040.1	98	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	295	8			6/1/1984
7927	Northeast WRF	232A1045.1	51	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	154	8			6/1/1979
7928	Northeast WRF	232A1130.1	391	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,173	8			6/1/1977
7929	Northeast WRF	232A2045.1	87	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	262	8			6/1/1977
7930	Northeast WRF	252B8015.1	257	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	771	8			6/1/1970
7931	Northeast WRF	253A2130.1	143	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	428	8			6/1/1976
7932	Northeast WRF	271B6030.1	47	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	141	8			6/1/1973
7933	Northeast WRF	280B5150.1	251	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	753	8			
7934	Northeast WRF	280B6120.1	109	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	328	8			
7935	Northeast WRF	262A3005.1	33	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	99	8			6/1/1991
7936	Northeast WRF	262A3025.1	294	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	883	8			6/1/1991
7937	Northeast WRF	272A1055.1	205	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	615	8			
7938	Northeast WRF	253B8010.1	188	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	564	8			6/1/1979
7939	Northeast WRF	253B8015.1	342	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,026	8			6/1/1979
7940	Northeast WRF	280B8130.1	68	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	203	8			6/1/1979
7941	Northeast WRF	232A1135.1	378	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,133	8			6/1/1977
7942	Northeast WRF	253B8135.1	28	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	85	8			6/1/1970
7943	Northeast WRF	254B7035.1	143	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	430	8			7/19/1993
7944	Northeast WRF	253B6025.1	221	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	662	8			6/1/1978
7945	Northeast WRF	232A3110.1	219	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	656	8			6/1/1973
7946	Northeast WRF	232A4035.1	348	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,044	8			6/1/1974
7947	Northeast WRF	254A4040.1	120	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	359	8	YALE DR	2020	6/1/1970
7948	Northeast WRF	254B6050.1	342	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,026	8	W SKYLINE DR	2020	6/1/1970
7949	Northeast WRF	263A3065.1	235	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	704	8			6/1/1970
7950	Northeast WRF	263B5040.1	153	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	460	8			2/3/2008
7951	Northeast WRF	263B5045.1	126	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	379	8			2/3/2008
7952	Northeast WRF	263B6005.1	363	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,090	8			2/3/2008
7953	Northeast WRF	272A3075.1	139	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	418	8	WIND GAP PL	2023	4/1/1981
7954	Northeast WRF	272B5010.1	394	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,183	8	MISTY PLATEAU TRL	2023	4/1/1981
7955	Northeast WRF	290A3090.1	250	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	751	8			6/1/1972
7956	Northeast WRF	254A4025.1	335	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,006	8	ATLANTIS DR	2020	6/1/1976
7957	Northeast WRF	221A3095.1	126	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	379	8			2/1/1999
7958	Northeast WRF	290B7085.1	220	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	659	8			
7959	Northeast WRF	290A3045.1	51	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	152	8			6/1/1998
7960	Northeast WRF	221A1085.1	143	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	429	8			6/1/1978
7961	Northeast WRF	221A1075.1	221	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	662	8			6/1/1978
7962	Northeast WRF	290B7090.1	151	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	452	8			
7963	Northeast WRF	253A4035.1	124	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	373	8			6/1/1974
7964	Northeast WRF	189B8045.1	343	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,030	8			6/1/1979
7965	Northeast WRF	190A2085.1	224	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	672	8			6/1/1997

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
7966	Northeast WRF	190A2055.1	156	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	469	8			6/1/1997
7967	Northeast WRF	190A2060.1	195	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	584	8			6/1/1997
7968	Northeast WRF	190A1025.1	225	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	676	8			6/1/1987
7969	Northeast WRF	211B7100.1	213	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	638	8			6/1/1976
7970	Northeast WRF	211B7085.1	256	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	768	8			6/1/1976
7971	Northeast WRF	211B7075.1	146	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	438	8			6/1/1976
7972	Northeast WRF	211B7030.1	152	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	455	8			6/1/1976
7973	Northeast WRF	211B8105.1	42	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	126	8			6/1/1981
7974	Northeast WRF	222B7025.1	180	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	540	8			6/1/1976
7975	Northeast WRF	222B8075.1	221	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	663	8			6/1/1977
7976	Northeast WRF	223A1140.1	243	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	729	8			6/1/1976
7977	Northeast WRF	223A2090.1	315	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	945	8			6/1/1977
7978	Northeast WRF	233B8020.1	388	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,164	8			6/1/1986
7979	Northeast WRF	232A3045.1	167	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	500	8			6/1/1973
7980	Northeast WRF	263B5010.1	327	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	981	8			2/3/2008
7981	Northeast WRF	263B5055.1	351	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,053	8			2/3/2008
7982	Northeast WRF	232A4075.1	143	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	429	8			6/1/1974
7983	Northeast WRF	263A2005.1	103	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	308	8	MANOR BLVD N	2023	6/1/1980
7984	Northeast WRF	221A1020.1	132	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	396	8			6/1/1979
7985	Northeast WRF	221A1030.1	297	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	892	8			6/1/1979
7986	Northeast WRF	190A2040.1	180	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	540	8			1/1/1990
7987	Northeast WRF	273A1085.1	45	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	136	8			6/1/1974
7988	Northeast WRF	273B5020.1	256	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	767	8			6/1/1974
7989	Northeast WRF	273B5035.1	38	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	115	8			6/1/1974
7990	Northeast WRF	233B5020.1	223	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	668	8			6/1/1982
7991	Northeast WRF	222A2035.1	142	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	426	8	CYPRESS BEND DR	2022	6/1/1977
7992	Northeast WRF	222A2050.1	292	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	876	8	CYPRESS BEND DR	2022	6/1/1977
7993	Northeast WRF	189A4025.1	206	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	619	8	HYDE PARK DR	2022	6/1/1980
7994	Northeast WRF	189B8090.1	73	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	220	8			6/1/1979
7995	Northeast WRF	200B6080.1	130	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	390	8			6/1/1978
7996	Northeast WRF	211A3005.1	317	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	952	8	WESTCHESTER DR S	2022	6/1/1973
7997	Northeast WRF	222B5105.1	257	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	771	8			6/1/1982
7998	Northeast WRF	222B5120.1	307	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	922	8			6/1/1982
7999	Northeast WRF	233B5075.1	187	No	3	1	3x1	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	562	8			6/1/1979
8000	Northeast WRF	244B8045.1	260	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	781	8			4/1/1986
8001	Northeast WRF	256A2020.1	266	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	799	8			6/1/1987
8002	Northeast WRF	264B8025.1	302	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	905	8	SUE DR	2022	6/1/1969
8003	Northeast WRF	265A2015.1	177	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	530	8	ST. CROIX DR	2022	6/1/1974
8004	Northeast WRF	264B8075.1	359	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,078	8	CATHERINE DR	2022	6/1/1973
8005	Northeast WRF	274A3010.1	64	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	192	8			6/1/1973
8006	Northeast WRF	265A4030.1	31	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	93	8			6/1/1973
8007	Northeast WRF	179A2035.1	224	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	671	8			6/1/1986
8008	Northeast WRF	179A1015.1	403	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,209	8			
8009	Northeast WRF	189B8020.1	73	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	220	8			6/1/1979
8010	Northeast WRF	233B7035.1	384	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,151	8			6/1/1986
8011	Northeast WRF	233B8010.1	383	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,148	8			6/1/1986
8012	Northeast WRF	232A2055.1	314	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	942	8			6/1/1977
8013	Northeast WRF	253A4085.1	127	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	380	8			6/1/1974
8014	Northeast WRF	262A3110.1	35	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	106	8			6/1/1974
8015	Northeast WRF	232A2005.1	157	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	472	8			6/1/1977
8016	Northeast WRF	263A1100.1	70	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	210	8			6/1/1979
8017	Northeast WRF	263A1070.1	300	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	900	8			6/1/1979
8018	Northeast WRF	263A1140.1	23	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	68	8			6/1/1971
8019	Northeast WRF	263A1060.1	400	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,200	8			6/1/1972
8020	Northeast WRF	263A2075.1	298	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	894	8	S LAGOON CIR	2023	6/1/1974
8021	Northeast WRF	271B7010.1	25	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	76	8			
8022	Northeast WRF	272A2045.1	409	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,226	8			
8023	Northeast WRF	253B8065.1	162	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	487	8			6/1/1979
8024	Northeast WRF	232A3095.1	99	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	297	8			6/1/1973
8025	Northeast WRF	263A3050.1	304	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	913	8			6/1/1970
8026	Northeast WRF	263A4005.1	260	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	779	8			6/1/1972
8027	Northeast WRF	263B5030.1	225	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	674	8			2/3/2008
8028	Northeast WRF	272B5020.1	361	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,084	8	COACHMAKERS LN	2023	4/1/1981
8029	Northeast WRF	244B6035.1	147	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	441	8			4/1/1986
8030	Northeast WRF	244B6060.1	275	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	825	8			6/1/1986
8031	Northeast WRF	273B6115.1	133	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	400	8	HOLLYWOOD AVE	2020	6/1/1972
8032	Northeast WRF	178A4110.1	56	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	167	8			6/1/1979
8033	Northeast WRF	178A1005.1	61	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	182	8			6/1/1983
8034	Northeast WRF	188B7140.1	316	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	949	8			6/1/1978
8035	Northeast WRF	189A2045.1	232	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	695	8			6/1/1977
8036	Northeast WRF	200A1065.1	220	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	659	8	AUGUSTA DR S	2022	6/1/1977
8037	Northeast WRF	222A2015.1	285	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	856	8	WINDING WOOD DR	2022	6/1/1977
8038	Northeast WRF	189A3020.1	140	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	419	8			6/1/1978
8039	Northeast WRF	200A4020.1	178	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	534	8	WESTCHESTER DR N	2022	6/1/1973
8040	Northeast WRF	200B6035.1	228	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	685	8			6/1/1978
8041	Northeast WRF	211B5005.1	329	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	986	8			6/1/1976
8042	Northeast WRF	222B5005.1	300	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	899	8			6/1/1982
8043	Northeast WRF	222B5115.1	286	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	859	8			6/1/1982
8044	Northeast WRF	178B8015.1	246	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	739	8			6/1/1980
8045	Northeast WRF	211B8040.1	273	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	819	8			6/1/1976
8046	Northeast WRF	211B8025.1	332	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	996	8			6/1/1976
8047	Northeast WRF	222B7100.1	224	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	672	8			6/1/1976
8048	Northeast WRF	223A2045.1	353	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,059	8			6/1/1976
8049	Northeast WRF	254B8095.1	269	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	806	8			6/1/1970
8050	Northeast WRF	263B7030.1	105	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	315	8			6/1/1972
8051	Northeast WRF	263B8050.1	32	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	96	8	STAG RUN BLVD	2023	6/1/1981
8052	Northeast WRF	254B6025.1	288	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	864	8	E SKYLINE DR	2020	6/1/1970
8053	Northeast WRF	264A3075.1	137	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	411	8			6/1/1984
8054	Northeast WRF	264A3035.1	75	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	225	8			6/1/1984
8055	Northeast WRF	264A3190.1	42	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	127	8			6/1/1984
8056	Northeast WRF	264A3130.1	235	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	705	8			6/1/1984
8057	Northeast WRF	233B7025.1	323	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	970	8			6/1/1986
8058	Northeast WRF	244B8025.1	313	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	939	8			4/1/1986
8059	Northeast WRF	188B7160.1	331	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	993	8			6/1/1977
8060	Northeast WRF	188B7150.1	33	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	99	8			6/1/1977
8061	Northeast WRF	188B5140.1	216	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	647	8			
8062	Northeast WRF	282A3035.1	59	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	176	8	FAIRWOOD FOREST DR	2020	6/1/1981
8063	Northeast WRF	264A4045.1	349	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,047	8	N TERRACE DR	2022	6/1/1984
8064	Northeast WRF	264B6025.1	283	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	849	8	ST. CROIX DR	2022	6/1/1969
8065	Northeast WRF	273A4025.1	263	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	788	8	BEACHWOOD AVE	2020	6/1/1972
8066	Northeast WRF	273B5025.1	131	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	392	8			6/1/1974
8067	Northeast WRF	273B5070.1	176	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	527	8			6/1/1974
8068	Northeast WRF	273B8050.1	342	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,026	8	MELONWOOD AVE	2020	6/1/1972
8069	Northeast WRF	178A2045.1	367	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,101	8			6/1/1984
8070	Northeast WRF	178A2100.1	149	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	447	8			6/1/1983
8071	Northeast WRF	178A3085.1	183	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	548	8			6/1/1983
8072	Northeast WRF	178A2035.1	350	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,051	8			6/1/1984
8073	Northeast WRF	178A2005.1	334	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,001	8			6/1/1984
8074	Northeast WRF	178A1040.1	341	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,023	8			6/1/1983

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
8075	Northeast WRF	178A2090.1	138	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT) >= (4) is No	N-N	1	414	8			12/1/2003
8076	Northeast WRF	188B7105.1	223	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	669	8			6/1/1978
8077	Northeast WRF	188B7020.1	260	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	780	8			6/1/1978
8078	Northeast WRF	188B7120.1	209	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	626	8			6/1/1978
8079	Northeast WRF	188B7165.1	358	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,073	8			6/1/1977
8080	Northeast WRF	189A1055.1	284	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	851	8			6/1/1978
8081	Northeast WRF	189A2015.1	208	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	625	8			6/1/1977
8082	Northeast WRF	189A1075.1	343	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,030	8			6/1/1977
8083	Northeast WRF	200A1020.1	238	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	714	8	AUGUSTA DR W	2022	6/1/1977
8084	Northeast WRF	200A1075.1	317	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	951	8	AUGUSTA DR S	2022	6/1/1977
8085	Northeast WRF	200A2015.1	310	No	1	2	1x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	929	8	ST. ANDREWS DR	2022	6/1/1977
8086	Northeast WRF	200A2065.1	191	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	572	8	CLUBHOUSE DR W	2022	6/1/1977
8087	Northeast WRF	200A2050.1	67	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	202	8	WESTCHESTER DR N	2022	6/1/1973
8088	Northeast WRF	222A2025.1	353	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,059	8	CYPRESS BEND DR W	2022	6/1/1977
8089	Northeast WRF	222A2010.1	146	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	438	8	WINDING WOOD DR	2022	6/1/1977
8090	Northeast WRF	232B7065.1	321	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	964	8			6/1/1979
8091	Northeast WRF	178A4075.1	71	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	212	8			6/1/1979
8092	Northeast WRF	178A4015.1	67	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	201	8			6/1/1979
8093	Northeast WRF	178A4090.1	271	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	812	8			6/1/1979
8094	Northeast WRF	178A3050.1	65	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	195	8			6/1/1983
8095	Northeast WRF	211B6065.1	328	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	985	8	LONG VIEW DR	2022	6/1/1973
8096	Northeast WRF	211B6025.1	142	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	426	8	FOREST VIEW DR	2022	6/1/1973
8097	Northeast WRF	211B6010.1	147	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	441	8	FOREST VIEW DR	2022	6/1/1973
8098	Northeast WRF	211B6140.1	49	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	146	8			6/1/1974
8099	Northeast WRF	211B6135.1	39	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	118	8			6/1/1974
8100	Northeast WRF	222A3075.1	239	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	717	8	PEACHTREE CIR E	2022	6/1/1977
8101	Northeast WRF	222B5055.1	120	No	2	3	2x3	CCTV Long Term	CCTV Long Term	RCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	360	8			6/1/1982
8102	Northeast WRF	222B6130.1	179	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	537	8			6/1/1982
8103	Northeast WRF	222B8070.1	225	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	674	8			6/1/1977
8104	Northeast WRF	233B5125.1	401	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,202	8			6/1/1979
8105	Northeast WRF	233B5110.1	206	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	617	8			6/1/1979
8106	Northeast WRF	233B7070.1	417	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,250	8			6/1/1986
8107	Northeast WRF	255B8010.1	256	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	768	8			6/1/1983
8108	Northeast WRF	256A2025.1	302	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	906	8			6/1/1987
8109	Northeast WRF	256A2055.1	259	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	778	8			6/1/1987
8110	Northeast WRF	256A2070.1	150	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	449	8			6/1/1987
8111	Northeast WRF	256A2085.1	170	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	511	8			6/1/1973
8112	Northeast WRF	264B7035.1	116	No	2	2	2x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT) >= (4) is No	N-N	1	349	8			6/1/1983
8113	Northeast WRF	232A3125.1	414	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,243	8			6/1/1973
8114	Northeast WRF	263B5060.1	284	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT) >= (4) is No	N-N	1	852	8			2/3/2006
8115	Northeast WRF	272B5050.1	229	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	688	8	MISTY PLATEAU TRL	2023	4/1/1981
8116	Northeast WRF	221A2080.1	40	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	120	8			6/1/1979
8117	Northeast WRF	233B8030.1	327	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT) >= (4) is No	N-N	1	981	8			6/1/1986
8118	Northeast WRF	234A1015.1	222	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT) >= (4) is No	N-N	1	665	8			6/1/1977
8119	Northeast WRF	234A1085.1	35	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	105	8			6/1/1998
8120	Northeast WRF	234A1120.1	140	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	420	8			6/1/1998
8121	Northeast WRF	252B8070.1	336	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,009	8			6/1/1970
8122	Northeast WRF	280A4125.1	239	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	716	8			6/1/1973
8123	Northeast WRF	280A4060.1	314	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	941	8			6/1/1973
8124	Northeast WRF	280B5085.1	102	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	305	8			
8125	Northeast WRF	280B6125.1	312	No	2	3	2x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT) >= (4) is No	N-N	1	937	8			
8126	Northeast WRF	253B8060.1	281	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	843	8			6/1/1979
8127	Northeast WRF	263A1150.1	298	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	893	8			6/1/1971
8128	Northeast WRF	263A1030.1	45	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	135	8			6/1/1974
8129	Northeast WRF	263A1055.1	306	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	917	8			6/1/1974
8130	Northeast WRF	264B6115.1	87	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	261	8			6/1/1969
8131	Northeast WRF	264A3085.1	184	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT) >= (4) is No	N-N	1	553	8			6/1/1984
8132	Northeast WRF	254A4035.1	111	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	333	8			6/1/1970
8133	Northeast WRF	254A4045.1	113	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	338	8			6/1/1970
8134	Northeast WRF	221B8165.1	347	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,041	8			6/1/1979
8135	Northeast WRF	271A4021.1	45	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	136	8			6/1/1973
8136	Northeast WRF	280B5100.1	240	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	720	8			
8137	Northeast WRF	280B5135.1	168	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	504	8			
8138	Northeast WRF	263A3110.1	148	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	445	8	VANDERBILT DR	2020	6/1/1970
8139	Northeast WRF	221A3100.1	338	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,014	8			2/1/1999
8140	Northeast WRF	263B8045.1	298	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	894	8	STAG RUN BLVD	2023	6/1/1981
8141	Northeast WRF	252B8010.1	260	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	779	8			6/1/1970
8142	Northeast WRF	232A1125.1	212	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	635	8			6/1/1977
8143	Northeast WRF	280B5115.1	84	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	252	8			
8144	Northeast WRF	289B8095.1	203	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	608	8			6/1/1972
8145	Northeast WRF	290A3025.1	266	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT) >= (4) is No	N-N	1	798	8			6/1/1998
8146	Northeast WRF	290A3050.1	60	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	180	8			6/1/1998
8147	Northeast WRF	254B8030.1	113	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	338	8			6/1/1975
8148	Northeast WRF	263B7050.1	164	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	492	8			6/1/1972
8149	Northeast WRF	262B7095.1	333	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	998	8			6/1/1979
8150	Northeast WRF	253B8030.1	199	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	596	8			6/1/1979
8151	Northeast WRF	232A4065.1	344	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,033	8			6/1/1974
8152	Northeast WRF	232A4015.1	258	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	774	8			6/1/1973
8153	Northeast WRF	254B6010.1	317	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	951	8	W SKYLINE DR	2020	6/1/1970
8154	Northeast WRF	263A3115.1	272	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	816	8	VANDERBILT DR	2020	6/1/1970
8155	Northeast WRF	232A3090.1	347	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,040	8			6/1/1973
8156	Northeast WRF	272A4035.1	205	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	615	8			
8157	Northeast WRF	263A3100.1	137	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	411	8			6/1/1971
8158	Northeast WRF	272A2010.1	167	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	500	8			6/1/1973
8159	Northeast WRF	211B5030.1	134	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	401	8	QUAIL HOLLOW RD E	2022	6/1/1973
8160	Northeast WRF	211B6020.1	221	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	664	8	CEDAR RUN CT	2022	6/1/1973
8161	Northeast WRF	222A3120.1	84	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	251	8	PEACHTREE CIR E	2022	6/1/1977
8162	Northeast WRF	222A3110.1	307	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	921	8	PEACHTREE CIR E	2022	6/1/1977
8163	Northeast WRF	222A4095.1	204	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	612	8	WINDING WOOD DR	2022	6/1/1977
8164	Northeast WRF	222B5075.1	353	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,059	8			6/1/1982
8165	Northeast WRF	222B5085.1	159	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	477	8			6/1/1982
8166	Northeast WRF	222B6045.1	157	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	470	8			6/1/1982
8167	Northeast WRF	222B6060.1	235	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	706	8			6/1/1982
8168	Northeast WRF	233B5080.1	347	No	3	1	3x1	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,040	8			6/1/1979
8169	Northeast WRF	233B8005.1	356	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,069	8			6/1/1986
8170	Northeast WRF	244B8035.1	106	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	318	8			4/1/1986
8171	Northeast WRF	272A2040.1	473	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,419	8			6/1/1973
8172	Northeast WRF	280B6130.1	207	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT) >= (4) is No	N-N	1	621	8			6/1/1984
8173	Northeast WRF	233B8045.1	46	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	137	8			6/1/1986
8174	Northeast WRF	264A3161.1	102	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT) >= (4) is No	N-N	1	306	8			6/1/1984
8175	Northeast WRF	282A2085.1	16	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	49	8			
8176	Northeast WRF	188B5100.1	332	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	997	8			
8177	Northeast WRF	221B6075.1	120	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT) >= (4) is No	N-N	1	361	8			6/1/1993
8178	Northeast WRF	272B7045.1	208	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	624	8			6/1/1973
8179	Northeast WRF	272B7020.1	72	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	216	8			6/1/1973
8180	Northeast WRF	273A3010.1	438	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	1,314	8			6/1/1970
8181	Northeast WRF	244B6005.1	147	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	441	8			4/1/1986
8182	Northeast WRF	244B6045.1	261	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	783	8			6/1/1986
8183	Northeast WRF	244B6040.1	311	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT) >= (4) is No	N-N	1	934	8			6/1/1986

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
8184	Northeast WRF	244B8090.1	246	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	738	8			6/1/1998
8185	Northeast WRF	264B6120.1	87	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	260	8			6/1/1969
8186	Northeast WRF	273B5010.1	166	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	498	8			6/1/1974
8187	Northeast WRF	273B6045.1	177	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	530	8	JADEWOOD AVE	2020	6/1/1972
8188	Northeast WRF	273B6100.1	254	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	761	8	GRANTWOOD AVE	2020	6/1/1972
8189	Northeast WRF	273B8035.1	317	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	952	8	MELONWOOD AVE	2020	6/1/1972
8190	Northeast WRF	273A4090.1	151	No	3	4	3x4	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	454	8	PARK TRAIL LN	2020	6/1/1972
8191	Northeast WRF	282A4055.1	329	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	988	8			
8192	Northeast WRF	178A4050.1	301	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	902	8			6/1/1983
8193	Northeast WRF	178A2080.1	221	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	662	8			6/1/1983
8194	Northeast WRF	178A2025.1	344	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,033	8			6/1/1983
8195	Northeast WRF	178B6025.1	350	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,049	8			2/1/1979
8196	Northeast WRF	178B6090.1	250	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	751	8	MASTERS DR	2022	2/1/1979
8197	Northeast WRF	233B5030.1	191	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	572	8			6/1/1979
8198	Northeast WRF	233B5015.1	375	No	3	2	3x2	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,124	8			6/1/1979
8199	Northeast WRF	178A1015.1	336	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,007	8			6/1/1983
8200	Northeast WRF	178A1020.1	174	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	521	8			6/1/1983
8201	Northeast WRF	188B7090.1	220	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	660	8			6/1/1978
8202	Northeast WRF	188B7130.1	393	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,180	8			6/1/1978
8203	Northeast WRF	189A3070.1	137	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	410	8			6/1/1978
8204	Northeast WRF	189A2090.1	404	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,211	8			6/1/1977
8205	Northeast WRF	200A2005.1	368	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,104	8	ST. ANDREWS DR	2022	6/1/1977
8206	Northeast WRF	200A2040.1	142	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	425	8	WESTCHESTER DR N	2022	6/1/1977
8207	Northeast WRF	200A2035.1	241	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	722	8	CLUBHOUSE DR W	2022	6/1/1977
8208	Northeast WRF	222A2055.1	300	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	900	8	CYPRESS BEND DR	2022	6/1/1977
8209	Northeast WRF	178B6115.1	135	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	404	8	HYDE PARK DR	2022	6/1/1979
8210	Northeast WRF	178B5060.1	322	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	966	8			
8211	Northeast WRF	189B6035.1	279	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	838	8			6/1/1979
8212	Northeast WRF	265A1005.1	290	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	871	8			6/1/1972
8213	Northeast WRF	265A2080.1	261	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	783	8	LAWRENCE DR	2022	6/1/1973
8214	Northeast WRF	265A2155.1	245	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	736	8	LAWRENCE DR	2022	6/1/1973
8215	Northeast WRF	178B8030.1	154	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	462	8			6/1/1980
8216	Northeast WRF	178B8085.1	314	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	942	8			6/1/1980
8217	Northeast WRF	178B8075.1	311	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	933	8	HYDE PARK DR	2022	6/1/1979
8218	Northeast WRF	178B8130.1	227	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	682	8			6/1/1979
8219	Northeast WRF	189B7060.1	359	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,076	8			6/1/1979
8220	Northeast WRF	189B8030.1	312	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	936	8			6/1/1979
8221	Northeast WRF	190A1030.1	250	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	750	8			6/1/1987
8222	Northeast WRF	190A2020.1	206	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	618	8			6/1/1987
8223	Northeast WRF	200B8075.1	311	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	934	8			6/1/1978
8224	Northeast WRF	201A2030.1	214	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	641	8			
8225	Northeast WRF	211B8020.1	121	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	364	8			6/1/1976
8226	Northeast WRF	212A1045.1	300	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	900	8			
8227	Northeast WRF	223A2085.1	347	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,040	8			6/1/1977
8228	Northeast WRF	233B7010.1	63	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	189	8			6/1/1986
8229	Northeast WRF	233B7080.1	387	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,161	8			6/1/1986
8230	Northeast WRF	234A1105.1	122	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	367	8			6/1/1998
8231	Northeast WRF	234A1090.1	129	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	387	8			6/1/1998
8232	Northeast WRF	234A1070.1	145	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	435	8			6/1/1998
8233	Northeast WRF	252B8020.1	392	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,176	8			6/1/1970
8234	Northeast WRF	262A3050.1	275	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	825	8			6/1/1982
8235	Northeast WRF	262B5055.1	247	No	3	3	3x3	CCTV Long Term	CCTV Long Term	FRP		(GravityMain.COND_TT] >= (4) is No	N-N	1	742	8			6/1/1983
8236	Northeast WRF	262A4025.1	261	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	783	8			6/1/1974
8237	Northeast WRF	232A1020.1	173	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	520	8			6/1/1979
8238	Northeast WRF	263A1160.1	252	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	757	8	MANOR BLVD N	2023	6/1/1971
8239	Northeast WRF	281A2065.1	371	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,113	8			6/1/1998
8240	Northeast WRF	253B8035.1	186	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	559	8			6/1/1979
8241	Northeast WRF	280B8120.1	73	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	219	8			6/1/1984
8242	Northeast WRF	289B7050.1	420	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,260	8			2/3/2008
8243	Northeast WRF	262B7010.1	58	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	173	8			6/1/1973
8244	Northeast WRF	262B7085.1	65	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	195	8			6/1/1979
8245	Northeast WRF	263A2010.1	288	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	864	8	RAGLAND AVE	2023	6/1/1974
8246	Northeast WRF	263A1120.1	62	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	185	8			6/1/1974
8247	Northeast WRF	290A3040.1	57	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	171	8			6/1/1998
8248	Northeast WRF	254B7045.1	335	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,006	8			6/1/1975
8249	Northeast WRF	254B7040.1	196	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	587	8			7/19/1993
8250	Northeast WRF	232A4030.1	263	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	789	8			6/1/1973
8251	Northeast WRF	232B5110.1	36	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	109	8			6/1/1979
8252	Northeast WRF	281A4055.1	217	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	651	8			6/1/1974
8253	Northeast WRF	281B6010.1	236	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	707	8			
8254	Northeast WRF	232A3040.1	146	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	437	8			6/1/1973
8255	Northeast WRF	290A3015.1	127	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	382	8			6/1/1998
8256	Northeast WRF	290A3020.1	274	No	2	3	2x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	821	8			6/1/1998
8257	Northeast WRF	263A4050.1	197	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	592	8	WETHERINGTON RD	2023	6/1/1984
8258	Northeast WRF	221A4060.1	90	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	270	8			6/1/1979
8259	Northeast WRF	221A1070.1	212	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	636	8			6/1/1978
8260	Northeast WRF	221B6055.1	64	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	192	8			
8261	Northeast WRF	290B7060.1	148	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	445	8			6/1/1969
8262	Northeast WRF	254B8045.1	151	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	452	8			6/1/1975
8263	Northeast WRF	263B7010.1	78	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	235	8			6/1/1970
8264	Northeast WRF	254B6015.1	319	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	957	8	E SKYLINE DR	2020	6/1/1970
8265	Northeast WRF	263B7100.1	292	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	876	8			6/1/1972
8266	Northeast WRF	263B8060.1	56	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	168	8	STAG RUN BLVD	2023	6/1/1981
8267	Northeast WRF	262B5080.1	19	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	56	8			6/1/1983
8268	Northeast WRF	264B6160.1	129	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	386	8			6/1/1969
8269	Northeast WRF	264A4070.1	281	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	843	8	EVANS DR	2022	6/1/1984
8270	Northeast WRF	264A4095.1	26	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	78	8	EVANS DR	2022	6/1/1984
8271	Northeast WRF	264A3080.1	269	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	806	8			6/1/1984
8272	Northeast WRF	255A4075.1	257	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	771	8			6/1/2000
8273	Northeast WRF	255A4055.1	46	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	137	8			6/1/1996
8274	Northeast WRF	264A4060.1	24	No	3	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	73	8	EVANS DR	2022	6/1/1984
8275	Northeast WRF	189B8100.1	271	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	812	8			6/1/1979
8276	Northeast WRF	188B5045.1	108	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	323	8			6/1/1978
8277	Northeast WRF	221B6050.1	196	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	587	8			6/1/1993
8278	Northeast WRF	264B6020.1	245	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	736	8	ST. CROIX DR	2022	6/1/1969
8279	Northeast WRF	189B5005.1	160	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	479	8	ALLAPATTAH DR	2022	6/1/1979
8280	Northeast WRF	178A1025.1	401	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,202	8			6/1/1984
8281	Northeast WRF	189A2055.1	363	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,088	8			6/1/1977
8282	Northeast WRF	200A1045.1	284	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	851	8	PEBBLE BEACH DR	2022	6/1/1977
8283	Northeast WRF	200A2010.1	251	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	752	8	CLUBHOUSE DR W	2022	6/1/1977
8284	Northeast WRF	222A2040.1	135	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	405	8	CYPRESS BEND DR	2022	6/1/1977
8285	Northeast WRF	178A3045.1	259	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	778	8			6/1/1980
8286	Northeast WRF	200B6010.1	218	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	654	8			6/1/1978
8287	Northeast WRF	200B5050.1	341	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,023	8	EAGLE ESTATES CIR N	2018	6/1/1978
8288	Northeast WRF	200B6075.1	129	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	386	8			6/1/1976
8289	Northeast WRF	211A4005.1	269	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	808	8	TIMBERLINE CT	2022	6/1/1973
8290	Northeast WRF	211B6060.1	257	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	771	8	LONG VIEW DR	2022	6/1/1973
8291	Northeast WRF	222A4025.1	271	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	812	8	WINDING WOOD DR	2022	6/1/1977
8292	Northeast WRF	222B5010.1	237	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	710	8			6/1/1982

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
8293	Northeast WRF	222B6040.1	186	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	557	8			6/1/1982
8294	Northeast WRF	233A3030.1	82	No	2	4	2x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	246	8			6/1/1979
8295	Northeast WRF	233B5100.1	126	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	377	8			6/1/1979
8296	Northeast WRF	280B5130.1	89	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	267	8			
8297	Northeast WRF	256A2010.1	341	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,024	8			6/1/1987
8298	Northeast WRF	256A2015.1	67	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	200	8			6/1/1987
8299	Northeast WRF	265A1065.1	280	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	839	8			6/1/1972
8300	Northeast WRF	178B8065.1	172	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	517	8			6/1/1980
8301	Northeast WRF	189B7080.1	338	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,013	8			6/1/1980
8302	Northeast WRF	189B7070.1	70	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	210	8			6/1/1979
8303	Northeast WRF	211B7040.1	140	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	421	8			6/1/1976
8304	Northeast WRF	211B7035.1	157	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	470	8			6/1/1976
8305	Northeast WRF	222B8020.1	109	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	327	8			6/1/1977
8306	Northeast WRF	280B5055.1	131	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	393	8			
8307	Northeast WRF	253B6010.1	429	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,286	8			6/1/1978
8308	Northeast WRF	252B8050.1	389	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,168	8			6/1/1970
8309	Northeast WRF	232A1040.1	231	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	692	8			6/1/1979
8310	Northeast WRF	232A1105.1	131	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	392	8			6/1/1977
8311	Northeast WRF	232A1145.1	131	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	392	8			6/1/1977
8312	Northeast WRF	280B5090.1	67	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	201	8			
8313	Northeast WRF	232A2130.1	343	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,028	8			6/1/1977
8314	Northeast WRF	263A2025.1	192	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	576	8	W LAGOON CIR	2023	6/1/1980
8315	Northeast WRF	263A1110.1	183	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	550	8			6/1/1979
8316	Northeast WRF	263A1155.1	307	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	921	8			6/1/1971
8317	Northeast WRF	263A2015.1	263	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	790	8	RAGLAND AVE	2023	6/1/1974
8318	Northeast WRF	263A2020.1	113	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	339	8	MANOR BLVD N	2023	6/1/1980
8319	Northeast WRF	263A2060.1	253	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	759	8	RAGLAND AVE	2023	6/1/1974
8320	Northeast WRF	221A1080.1	139	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	416	8			6/1/1978
8321	Northeast WRF	221A4030.1	213	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	639	8			
8322	Northeast WRF	221B6070.1	51	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	153	8			
8323	Northeast WRF	254B8065.1	274	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	821	8			6/1/1975
8324	Northeast WRF	264A3070.1	39	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	118	8			6/1/1984
8325	Northeast WRF	264A3055.1	25	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	74	8			6/1/1984
8326	Northeast WRF	211A1051.1	257	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	772	8			6/1/1984
8327	Northeast WRF	211A1052.1	19	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	58	8			6/1/1984
8328	Northeast WRF	178B8100.1	322	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	965	8	HYDE PARK DR	2022	6/1/1979
8329	Northeast WRF	264B8080.1	384	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,151	8			6/1/1973
8330	Northeast WRF	188B7145.1	217	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	651	8			6/1/1977
8331	Northeast WRF	282A3090.1	288	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	864	8	FAIRWOOD FOREST DR	2020	6/1/1981
8332	Northeast WRF	273A1160.1	17	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	51	8			6/1/1970
8333	Northeast WRF	273A1015.1	161	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	483	8			6/1/1974
8334	Northeast WRF	273A1050.1	94	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	283	8			6/1/1974
8335	Northeast WRF	282A3065.1	78	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	235	8	FAIRWOOD FOREST DR	2020	6/1/1981
8336	Northeast WRF	244B6010.1	73	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	218	8			4/1/1986
8337	Northeast WRF	244B8095.1	35	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	105	8			6/1/1998
8338	Northeast WRF	273A4030.1	351	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,053	8	BEACHWOOD AVE	2020	6/1/1972
8339	Northeast WRF	273A4060.1	208	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	625	8	BEACHWOOD AVE	2020	6/1/1972
8340	Northeast WRF	273B8015.1	319	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	958	8	MELONWOOD AVE	2020	6/1/1972
8341	Northeast WRF	189A3075.1	326	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	978	8			6/1/1978
8342	Northeast WRF	178A2065.1	345	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,034	8			6/1/1984
8343	Northeast WRF	178B6030.1	366	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,097	8			2/1/1979
8344	Northeast WRF	178A1010.1	265	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	794	8			6/1/1983
8345	Northeast WRF	188B7035.1	205	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	615	8			6/1/1978
8346	Northeast WRF	188B7015.1	260	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	780	8			6/1/1978
8347	Northeast WRF	188B7055.1	211	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	633	8			6/1/1978
8348	Northeast WRF	189A1065.1	195	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	584	8			6/1/1978
8349	Northeast WRF	189A2030.1	379	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,137	8			6/1/1977
8350	Northeast WRF	189A2075.1	315	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	945	8			6/1/1977
8351	Northeast WRF	189A2105.1	293	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	879	8			6/1/1977
8352	Northeast WRF	200A1085.1	322	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	965	8	AUGUSTA DR S	2022	6/1/1977
8353	Northeast WRF	200A2045.1	143	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	430	8	WESTCHESTER DR N	2022	6/1/1977
8354	Northeast WRF	222A2060.1	301	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	903	8	CYPRESS BEND DR	2022	6/1/1977
8355	Northeast WRF	178A4060.1	193	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	578	8			6/1/1979
8356	Northeast WRF	178A3040.1	399	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,198	8			6/1/1980
8357	Northeast WRF	178B6105.1	344	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,031	8	HYDE PARK DR	2022	6/1/1979
8358	Northeast WRF	189A4050.1	311	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	933	8	HYDE PARK DR	2022	6/1/1980
8359	Northeast WRF	189B5030.1	371	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,112	8	HYDE PARK DR	2022	6/1/1979
8360	Northeast WRF	200B5040.1	68	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	205	8			
8361	Northeast WRF	211B6095.1	361	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,084	8	QUAIL HOLLOW RD E	2022	6/1/1973
8362	Northeast WRF	222A3085.1	259	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	778	8			6/1/1977
8363	Northeast WRF	222B5080.1	108	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	325	8			6/1/1982
8364	Northeast WRF	222B6065.1	319	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	957	8			6/1/1982
8365	Northeast WRF	222B6100.1	199	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	598	8			6/1/1977
8366	Northeast WRF	233B5115.1	384	No	3	1	3x1	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,152	8			6/1/1979
8367	Northeast WRF	244B8060.1	227	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	682	8			4/1/1986
8368	Northeast WRF	245A1020.1	268	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	805	8			6/1/1987
8369	Northeast WRF	245A1015.1	208	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	624	8			6/1/1987
8370	Northeast WRF	256A2065.1	198	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	595	8			6/1/1973
8371	Northeast WRF	265A1025.1	38	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	115	8			6/1/1983
8372	Northeast WRF	265A1040.1	360	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,079	8			6/1/1972
8373	Northeast WRF	265A2135.1	282	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	846	8	ST. JOHN DR	2022	6/1/1973
8374	Northeast WRF	274A3005.1	76	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	227	8			6/1/1969
8375	Northeast WRF	178B8020.1	248	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	745	8			6/1/1980
8376	Northeast WRF	178B8050.1	338	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,013	8			6/1/1980
8377	Northeast WRF	178B8080.1	300	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	900	8			6/1/1980
8378	Northeast WRF	178B7075.1	182	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	545	8			6/1/1980
8379	Northeast WRF	179A2055.1	214	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	642	8			6/1/1986
8380	Northeast WRF	179A2070.1	290	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	871	8			6/1/1986
8381	Northeast WRF	189B7030.1	378	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,134	8			6/1/1979
8382	Northeast WRF	189B8015.1	233	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	698	8			6/1/1979
8383	Northeast WRF	190A1050.1	277	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	832	8			6/1/1985
8384	Northeast WRF	190A1120.1	98	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	293	8			6/1/1987
8385	Northeast WRF	211B8070.1	58	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	174	8			6/1/1976
8386	Northeast WRF	211B7060.1	256	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	768	8			6/1/1976
8387	Northeast WRF	212A1025.1	190	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	570	8			
8388	Northeast WRF	212A1030.1	104	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	312	8			
8389	Northeast WRF	222B8035.1	146	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	439	8			6/1/1977
8390	Northeast WRF	223A2015.1	170	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	509	8			6/1/1976
8391	Northeast WRF	223A2050.1	291	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	874	8			6/1/1976
8392	Northeast WRF	223A2020.1	35	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	105	8			6/1/1976
8393	Northeast WRF	223A1150.1	282	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	845	8			
8394	Northeast WRF	223A1125.1	241	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	724	8			
8395	Northeast WRF	233B7100.1	322	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	966	8			6/1/1986
8396	Northeast WRF	233B7075.1	413	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,239	8			6/1/1986
8397	Northeast WRF	233B8035.1	391	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,173	8			6/1/1986
8398	Northeast WRF	271A4025.1	112	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	335	8			6/1/1981
8399	Northeast WRF	280B5095.1	132	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	396	8			
8400	Northeast WRF	289B7085.1	102	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	307	8			2/3/2008
8401	Northeast WRF	263A2040.1	238	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	714	8	RAGLAND AVE	2023	6/1/1974

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
8402	Northeast WRF	263A2035.1	162	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	485	8	W LAGOON CIR	2023	6/1/1980
8403	Northeast WRF	272A2025.1	276	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	828	8			
8404	Northeast WRF	272A2030.1	399	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,198	8			6/1/1973
8405	Northeast WRF	281A1015.1	308	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	924	8			6/1/1973
8406	Northeast WRF	281A3055.1	231	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	692	8			6/1/1969
8407	Northeast WRF	254B8005.1	210	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	629	8			6/1/1975
8408	Northeast WRF	263B7035.1	185	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	554	8			6/1/1972
8409	Northeast WRF	262B6010.1	54	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	161	8			6/1/1977
8410	Northeast WRF	232A4130.1	253	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	758	8			6/1/1974
8411	Northeast WRF	263A3120.1	160	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	480	8	EMORY DR	2020	6/1/1970
8412	Northeast WRF	281A4045.1	81	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	242	8			6/1/1974
8413	Northeast WRF	232A4050.1	381	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,142	8			6/1/1974
8414	Northeast WRF	254A4010.1	298	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	893	8			6/1/1986
8415	Northeast WRF	281A3050.1	233	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	699	8			6/1/1969
8416	Northeast WRF	221A3075.1	102	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	305	8			2/1/1999
8417	Northeast WRF	221A4015.1	263	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	788	8			
8418	Northeast WRF	263B7085.1	263	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	790	8			6/1/1972
8419	Northeast WRF	290B7100.1	194	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	581	8			6/1/1969
8420	Northeast WRF	290B7125.1	313	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	940	8			6/1/1969
8421	Northeast WRF	281B6011.1	44	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	132	8			
8422	Northeast WRF	271B6001.1	161	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	482	8			
8423	Northeast WRF	264A3135.1	233	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	699	8			6/1/1984
8424	Northeast WRF	264A3030.1	32	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	96	8			6/1/1984
8425	Northeast WRF	221B8145.1	317	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	952	8			6/1/1993
8426	Northeast WRF	273B5040.1	157	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	471	8			6/1/1974
8427	Northeast WRF	273B5060.1	147	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	441	8			6/1/1974
8428	Northeast WRF	178A1035.1	72	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	216	8			6/1/1984
8429	Northeast WRF	178B6055.1	366	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,098	8	MASTERS DR	2022	2/1/1979
8430	Northeast WRF	188B7010.1	308	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	925	8			6/1/1978
8431	Northeast WRF	189A1070.1	70	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	210	8			6/1/1977
8432	Northeast WRF	232B7045.1	355	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,065	8			6/1/1979
8433	Northeast WRF	178A4045.1	279	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	837	8			6/1/1979
8434	Northeast WRF	178A3035.1	258	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	773	8			6/1/1980
8435	Northeast WRF	178B6045.1	308	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	924	8			6/1/1979
8436	Northeast WRF	189B5015.1	104	No	3	3	3x3	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	313	8			6/1/1979
8437	Northeast WRF	211B5025.1	378	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,135	8	QUAIL HOLLOW RD W	2022	6/1/1973
8438	Northeast WRF	211B6050.1	187	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	561	8	FOREST VIEW DR	2022	6/1/1973
8439	Northeast WRF	222B6080.1	284	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	852	8			6/1/1982
8440	Northeast WRF	222B6095.1	280	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	839	8			6/1/1977
8441	Northeast WRF	244B8015.1	380	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,141	8			4/1/1986
8442	Northeast WRF	256A2040.1	99	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	298	8			6/1/1987
8443	Northeast WRF	264B7010.1	190	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	571	8			6/1/1983
8444	Northeast WRF	265A2065.1	29	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	87	8			6/1/1969
8445	Northeast WRF	178B7115.1	214	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	641	8			6/1/1980
8446	Northeast WRF	179A2085.1	143	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	428	8			6/1/1986
8447	Northeast WRF	211B7065.1	187	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	562	8			6/1/1976
8448	Northeast WRF	222B8090.1	342	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,025	8			6/1/1977
8449	Northeast WRF	222B7080.1	190	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	570	8			6/1/1976
8450	Northeast WRF	279B8020.1	135	No	1	3	1x3	CCTV Long Term	CCTV Long Term	LIN		(GravityMain.COND_TT] >= (4) is No	N-N	1	406	8			
8451	Northeast WRF	232A1110.1	57	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	172	8			6/1/1977
8452	Northeast WRF	232A1150.1	209	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	628	8			6/1/1977
8453	Northeast WRF	232A1140.1	167	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	501	8			6/1/1977
8454	Northeast WRF	280A4010.1	299	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	897	8			6/1/1973
8455	Northeast WRF	280B5080.1	186	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	558	8			
8456	Northeast WRF	280B5120.1	105	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	315	8			
8457	Northeast WRF	272A2005.1	345	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,036	8			6/1/1973
8458	Northeast WRF	271B7025.1	294	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	883	8			6/1/1971
8459	Northeast WRF	271B7030.1	45	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	134	8			6/1/1971
8460	Northeast WRF	232A2110.1	180	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	540	8			6/1/1977
8461	Northeast WRF	253B8130.1	327	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	982	8			6/1/1970
8462	Northeast WRF	263A1145.1	300	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	900	8			6/1/1971
8463	Northeast WRF	263A1020.1	252	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	757	8			6/1/1974
8464	Northeast WRF	263A2065.1	373	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,119	8	W LAGOON CIR	2023	9/1/1985
8465	Northeast WRF	262B7075.1	303	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	909	8			6/1/1979
8466	Northeast WRF	232A3055.1	149	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	448	8			6/1/1973
8467	Northeast WRF	254B6020.1	282	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	845	8	SUMMIT DR	2020	6/1/1973
8468	Northeast WRF	263B6010.1	253	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	760	8			2/3/2008
8469	Northeast WRF	263B6025.1	409	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,228	8			2/3/2008
8470	Northeast WRF	290A3085.1	228	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	683	8			6/1/1973
8471	Northeast WRF	263A4070.1	352	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,057	8	WETHERINGTON RD	2023	6/1/1984
8472	Northeast WRF	263A1065.1	400	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,200	8			6/1/1972
8473	Northeast WRF	263B7060.1	198	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	593	8			6/1/1972
8474	Northeast WRF	290B7050.1	178	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	534	8			
8475	Northeast WRF	254B8055.1	52	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	156	8			6/1/1975
8476	Northeast WRF	290B7070.1	214	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	643	8			
8477	Northeast WRF	281B6006.1	15	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	46	8			
8478	Northeast WRF	254B8010.1	377	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,132	8			
8479	Northeast WRF	264A4100.1	21	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	63	8	EVANS DR	2022	6/1/1984
8480	Northeast WRF	264A4110.1	278	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	834	8	EVANS DR	2022	6/1/1984
8481	Northeast WRF	264A3205.1	181	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	542	8			6/1/1984
8482	Northeast WRF	264A3195.1	159	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	476	8			6/1/1984
8483	Northeast WRF	264A3145.1	31	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	94	8			6/1/1984
8484	Northeast WRF	264A3110.1	22	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	67	8			6/1/1984
8485	Northeast WRF	232B7035.1	63	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	190	8			6/1/1979
8486	Northeast WRF	232B7010.1	52	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	157	8			6/1/1979
8487	Northeast WRF	262B8013.1	241	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	723	8			6/1/1977
8488	Northeast WRF	262B8040.1	61	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	182	8			6/1/1977
8489	Northeast WRF	262B8025.1	270	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	810	8			6/1/1977
8490	Northeast WRF	262B8005.1	325	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	975	8			6/1/1979
8491	Northeast WRF	262B8014.1	249	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	748	8			6/1/1977
8492	Northeast WRF	262B8015.1	85	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	256	8			6/1/1977
8493	Northeast WRF	262B6005.1	318	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	954	8			6/1/1977
8494	Northeast WRF	189A2035.1	292	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	875	8			6/1/1977
8495	Northeast WRF	190A1015.1	115	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	345	8			
8496	Northeast WRF	190A1010.1	364	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,092	8			
8497	Northeast WRF	189A2100.1	163	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	488	8			6/1/1977
8498	Northeast WRF	190A1005.1	251	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	752	8			
8499	Northeast WRF	190A1020.1	73	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	219	8			
8500	Northeast WRF	190A2050.1	90	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	271	8			6/1/1997
8501	Northeast WRF	190A2045.1	135	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	406	8			6/1/1997
8502	Northeast WRF	189A2025.1	175	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	525	8			6/1/1977
8503	Northeast WRF	189A2050.1	250	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	750	8			6/1/1977
8504	Northeast WRF	189A3010.1	166	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	498	8			6/1/1978
8505	Northeast WRF	189A3030.1	173	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	518	8			6/1/1978
8506	Northeast WRF	189A3035.1	59	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	177	8			6/1/1978
8507	Northeast WRF	200B8035.1	151	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	453	8	EAGLE ESTATES CIR E	2018	6/1/1984
8508	Northeast WRF	200B8055.1	60	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	181	8	EAGLE ESTATES CIR S	2018	6/1/1984
8509	Northeast WRF	188B7125.1	156	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	468	8			6/1/1978
8510	Northeast WRF	188B7045.1	107	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	322	8			6/1/1978

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
8511	Northeast WRF	188B7060.1	260	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	780	8			6/1/1978
8512	Northeast WRF	200A4045.1	154	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	462	8	TORREY PINES CT	2022	6/1/1973
8513	Northeast WRF	200B8060.1	267	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	801	8			6/1/1978
8514	Northeast WRF	200B8025.1	123	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	369	8	EAGLE ESTATES CIR E	2018	6/1/1984
8515	Northeast WRF	201A2040.1	45	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	136	8			6/1/1984
8516	Northeast WRF	211B6115.1	295	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	884	8			6/1/1974
8517	Northeast WRF	211B6145.1	46	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	139	8			6/1/1974
8518	Northeast WRF	211B6080.1	204	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	613	8			6/1/1976
8519	Northeast WRF	211B8060.1	55	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	166	8			6/1/1976
8520	Northeast WRF	211B8050.1	191	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	572	8			6/1/1976
8521	Northeast WRF	211B8075.1	199	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	597	8			6/1/1976
8522	Northeast WRF	211B8100.1	204	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	611	8			6/1/1981
8523	Northeast WRF	211B8035.1	161	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	484	8			6/1/1976
8524	Northeast WRF	211B8030.1	91	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	273	8			6/1/1976
8525	Northeast WRF	211B8055.1	241	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	724	8			6/1/1976
8526	Northeast WRF	211A4040.1	317	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	950	8			6/1/1973
8527	Northeast WRF	222A4115.1	183	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	548	8	DOGWOOD CT	2022	6/1/1977
8528	Northeast WRF	221A3005.1	118	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	353	8			6/1/1976
8529	Northeast WRF	211A4022.1	63	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	190	8			6/1/1973
8530	Northeast WRF	222A4105.1	348	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,045	8	DOGWOOD CT	2022	6/1/1977
8531	Northeast WRF	221A3040.1	238	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	715	8			2/1/1999
8532	Northeast WRF	221A3070.1	98	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	294	8			2/1/1999
8533	Northeast WRF	280B5070.1	168	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	504	8			
8534	Northeast WRF	280A2015.1	186	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	558	8			
8535	Northeast WRF	280A2020.1	318	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	954	8			
8536	Northeast WRF	280A2040.1	237	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	710	8			
8537	Northeast WRF	280A2045.1	218	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	655	8			
8538	Northeast WRF	280B5035.1	246	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	738	8			
8539	Northeast WRF	280B5040.1	228	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	685	8			
8540	Northeast WRF	263A1130.1	65	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	196	8	MANOR BLVD N	2023	6/1/1972
8541	Northeast WRF	271A5011.1	41	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	123	8			6/1/1981
8542	Northeast WRF	271A4075.1	56	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	168	8			6/1/1981
8543	Northeast WRF	271A4080.1	7	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	22	8			6/1/1981
8544	Northeast WRF	271A4085.1	8	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	25	8			6/1/1981
8545	Northeast WRF	264B8006.1	150	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	451	8	ST. CROIX DR	2022	6/1/1974
8546	Northeast WRF	244B8105.1	284	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	852	8			6/1/2000
8547	Northeast WRF	232A2015.1	42	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	126	8			6/1/1977
8548	Northeast WRF	244B8110.1	201	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	603	8			6/1/2000
8549	Northeast WRF	244B8100.1	169	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	506	8			6/1/2000
8550	Northeast WRF	244B8115.1	13	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	40	8			6/1/2000
8551	Northeast WRF	253B6075.1	274	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	823	8			
8552	Northeast WRF	255B8005.1	199	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	596	8			6/1/1988
8553	Northeast WRF	253B6080.1	228	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	684	8			
8554	Northeast WRF	253B8095.1	209	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	628	8			6/1/1971
8555	Northeast WRF	253B8045.1	36	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	109	8			
8556	Northeast WRF	253B8050.1	70	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	209	8			
8557	Northeast WRF	253B8055.1	289	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	866	8			
8558	Northeast WRF	253B8085.1	249	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	747	8			
8559	Northeast WRF	253B8105.1	44	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	132	8			6/1/1971
8560	Northeast WRF	253B8115.1	129	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	388	8			6/1/1979
8561	Northeast WRF	253B8120.1	128	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	383	8			6/1/1979
8562	Northeast WRF	253B8110.1	352	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,057	8			6/1/1979
8563	Northeast WRF	253B8125.1	70	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	210	8			6/1/1970
8564	Northeast WRF	272B9000.1	385	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,154	8			6/1/1993
8565	Northeast WRF	272B9005.1	29	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	87	8			6/1/2003
8566	Northeast WRF	272B9010.1	87	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	261	8			6/1/2003
8567	Northeast WRF	281B8125.1	36	No	2	4	2x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	108	8			
8568	Northeast WRF	281B8110.1	67	No	2	4	2x4	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	202	8			
8569	Northeast WRF	281B8120.1	39	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	117	8			
8570	Northeast WRF	255A4011.1	57	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	170	8			6/1/1984
8571	Northeast WRF	280B5050.1	409	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,226	8			
8572	Northeast WRF	252B8090.1	222	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	667	8			6/1/1970
8573	Northeast WRF	264B8040.1	389	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,167	8	LAWRENCE DR	2022	6/1/1969
8574	Northeast WRF	264B6105.1	152	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	455	8	ST. CROIX DR	2022	6/1/1969
8575	Northeast WRF	264B6060.1	383	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,148	8	SUE DR	2022	6/1/1969
8576	Northeast WRF	264B6085.1	267	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	802	8			6/1/1969
8577	Northeast WRF	264B8050.1	261	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	782	8			6/1/1969
8578	Northeast WRF	264B6050.1	337	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,011	8			6/1/1969
8579	Northeast WRF	264B6090.1	386	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,157	8	SUE DR	2022	6/1/1969
8580	Northeast WRF	264B6145.1	290	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	871	8	CATHERINE DR	2022	6/1/1969
8581	Northeast WRF	264B6185.1	280	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	840	8	ST. JOHN DR	2022	6/1/1969
8582	Northeast WRF	265A2040.1	105	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	315	8	SARAH DR	2022	6/1/1974
8583	Northeast WRF	264B6125.1	150	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	450	8	ST. CROIX DR	2022	6/1/1969
8584	Northeast WRF	264B6095.1	65	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	195	8			6/1/1969
8585	Northeast WRF	265A2020.1	69	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	206	8			6/1/1974
8586	Northeast WRF	265A2025.1	138	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	414	8	SARAH DR	2022	6/1/1974
8587	Northeast WRF	265A2055.1	94	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	283	8			6/1/1969
8588	Northeast WRF	189A2010.1	225	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	674	8			6/1/1977
8589	Northeast WRF	178B6010.1	220	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	661	8			6/1/1980
8590	Northeast WRF	179A1010.1	199	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	597	8			
8591	Northeast WRF	178A3025.1	306	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	917	8			6/1/1980
8592	Northeast WRF	178A3020.1	224	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	672	8			6/1/1980
8593	Northeast WRF	179A1005.1	83	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	249	8			
8594	Northeast WRF	179A1020.1	61	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	182	8			
8595	Northeast WRF	179A1025.1	285	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	855	8			
8596	Northeast WRF	178B7095.1	30	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	90	8			6/1/1980
8597	Northeast WRF	178B8010.1	30	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	89	8			6/1/1980
8598	Northeast WRF	178B7085.1	162	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	487	8			6/1/1980
8599	Northeast WRF	178B7100.1	149	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	447	8			6/1/1980
8600	Northeast WRF	178B8025.1	201	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	603	8			6/1/1980
8601	Northeast WRF	263A1090.1	330	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	991	8			6/1/1972
8602	Northeast WRF	263A3040.1	140	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	419	8	PRINCETON DR	2020	6/1/1970
8603	Northeast WRF	262B5065.1	176	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	527	8			2/1/1996
8604	Northeast WRF	262B5070.1	261	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	783	8			2/1/1996
8605	Northeast WRF	263A3130.1	32	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	95	8			6/1/1970
8606	Northeast WRF	263A1125.1	124	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	372	8			6/1/1974
8607	Northeast WRF	263A3025.1	221	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	662	8			6/1/1970
8608	Northeast WRF	263A3045.1	271	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	814	8	YALE DR	2020	6/1/1970
8609	Northeast WRF	179A1110.1	79	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	238	8			6/1/1981
8610	Northeast WRF	179A1055.1	27	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	82	8			6/1/1981
8611	Northeast WRF	254B8140.1	150	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	450	8	W SKYLINE DR	2020	6/1/1970
8612	Northeast WRF	254B6005.2	140	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	420	8	E SKYLINE DR	2020	6/1/1970
8613	Northeast WRF	273A4010.1	116	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	348	8			
8614	Northeast WRF	273A3105.1	115	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	345	8			
8615	Northeast WRF	273A4005.1	9	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	28	8			
8616	Northeast WRF	273A4070.1	134	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	403	8	BEACHWOOD AVE	2020	6/1/1972
8617	Northeast WRF	273A4075.1	19	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	56	8			6/1/1972
8618	Northeast WRF	272B5095.1	120	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	361	8	MISTY PLATEAU TRL	2023	4/1/1981
8619	Northeast WRF	271B7060.1	148	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	443	8			6/1/1976

APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
8620	Northeast WRF	271B7045.1	189	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	568	8			6/1/1976
8621	Northeast WRF	272A3020.1	189	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	566	8			6/1/1984
8622	Northeast WRF	271B7015.1	179	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	536	8			6/1/1976
8623	Northeast WRF	271B7035.1	85	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	254	8			6/1/1976
8624	Northeast WRF	271B7070.1	389	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,166	8			
8625	Northeast WRF	271B7050.1	334	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,001	8			
8626	Northeast WRF	271B7005.1	21	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	62	8			
8627	Northeast WRF	280B5065.1	355	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,065	8			
8628	Northeast WRF	280B5045.1	56	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	169	8			
8629	Northeast WRF	263A3125.1	107	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	321	8	EMORY DR	2020	6/1/1970
8630	Northeast WRF	263B7075.1	395	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,186	8			6/1/1972
8631	Northeast WRF	263B7055.1	243	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	729	8			6/1/1972
8632	Northeast WRF	263B7070.1	29	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	87	8			6/1/1972
8633	Northeast WRF	263B8115.1	302	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	906	8			6/1/1993
8634	Northeast WRF	264A2030.1	129	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	386	8			6/1/1983
8635	Northeast WRF	273B5045.1	134	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	402	8			6/1/1974
8636	Northeast WRF	273B5055.1	24	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	73	8			6/1/1974
8637	Northeast WRF	290A1030.1	218	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	653	8			
8638	Northeast WRF	290A1035.1	131	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	394	8			
8639	Northeast WRF	290A1025.1	370	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,111	8			
8640	Northeast WRF	290A1015.1	305	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	915	8			6/1/1986
8641	Northeast WRF	282A4195.1	83	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	249	8			6/1/1970
8642	Northeast WRF	282A4190.1	108	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	323	8			6/1/1970
8643	Northeast WRF	271A4065.1	299	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	896	8			3/11/2004
8644	Northeast WRF	280B8085.1	101	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	302	8			6/1/1982
8645	Northeast WRF	280B8060.1	186	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	559	8			
8646	Northeast WRF	280B8070.1	47	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	142	8			
8647	Northeast WRF	280B8075.1	294	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	881	8			6/1/1982
8648	Northeast WRF	280B8080.1	255	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	764	8			6/1/1982
8649	Northeast WRF	281A4035.1	151	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	452	8			6/1/1974
8650	Northeast WRF	281A3070.1	244	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	732	8			6/1/1969
8651	Northeast WRF	281A4065.1	149	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	446	8			6/1/1974
8652	Northeast WRF	281A4060.1	227	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	681	8			6/1/1974
8653	Northeast WRF	282A1005.1	124	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	372	8	FAIRWOOD FOREST DR	2020	6/1/1982
8654	Northeast WRF	232B8070.1	42	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	126	8			6/1/1979
8655	Northeast WRF	232B8065.1	167	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	501	8			
8656	Northeast WRF	283A1015.4	156	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	468	8			
8657	Northeast WRF	283A1015.2	142	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	426	8			
8658	Northeast WRF	283A1015.3	215	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	645	8			
8659	Northeast WRF	178B6110.1	241	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	724	8	MASTERS DR	2022	2/1/1979
8660	Northeast WRF	178B8150.1	40	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	120	8	COUNTRYSIDE BLVD	2022	2/1/1979
8661	Northeast WRF	178B6085.1	161	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	484	8	COUNTRYSIDE BLVD	2022	2/1/1979
8662	Northeast WRF	178B8145.1	40	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	120	8	COUNTRYSIDE BLVD	2022	2/1/1979
8663	Northeast WRF	271B8200.1	43	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	129	8			
8664	Northeast WRF	263A4100.1	289	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	868	8	LEE RD	2023	6/1/1984
8665	Northeast WRF	263B7065.1	349	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,047	8			6/1/1972
8666	Northeast WRF	264A4135.1	110	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	330	8			6/1/1971
8667	Northeast WRF	264A4150.1	199	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	597	8			6/1/1971
8668	Northeast WRF	264A4140.1	250	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	750	8			6/1/1973
8669	Northeast WRF	264B8120.1	25	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	75	8			6/1/1971
8670	Northeast WRF	264B8115.1	60	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	180	8			6/1/1971
8671	Northeast WRF	281B8130.1	43	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	129	8			
8672	Northeast WRF	271B8220.1	101	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	302	8			6/1/1976
8673	Northeast WRF	263A4095.1	171	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	513	8	FARRIER TRL	2023	6/1/1984
8674	Northeast WRF	272A3070.1	140	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	420	8	FARRIER TRL	2023	6/1/1984
8675	Northeast WRF	272A3065.1	70	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	210	8	STAG RUN BLVD	2023	6/1/1984
8676	Northeast WRF	272A3040.1	256	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	769	8	FARRIER TRL	2023	6/1/1984
8677	Northeast WRF	272A3045.1	273	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	818	8	STAG RUN BLVD	2023	6/1/1984
8678	Northeast WRF	272A3010.1	388	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,165	8	STAG RUN BLVD	2023	6/1/1984
8679	Northeast WRF	272A3055.1	356	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,067	8	FARRIER TRL	2023	6/1/1984
8680	Northeast WRF	272A3030.1	246	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	737	8	FARRIER TRL	2023	6/1/1984
8681	Northeast WRF	272A3005.1	139	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	418	8	FARRIER TRL	2023	6/1/1984
8682	Northeast WRF	263A4105.1	237	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	712	8	STAG RUN BLVD	2023	6/1/1984
8683	Northeast WRF	272A3130.1	351	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,053	8	FLINT LOCK DR	2023	6/1/1984
8684	Northeast WRF	272A3115.1	67	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	202	8	FLINT LOCK DR	2023	6/1/1984
8685	Northeast WRF	272A3085.1	178	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	533	8	WIND GAP PL	2023	4/1/1981
8686	Northeast WRF	272B5065.1	151	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	452	8	FLINT LOCK DR	2023	4/1/1981
8687	Northeast WRF	272A3080.1	134	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	402	8	WIND GAP PL	2023	4/1/1981
8688	Northeast WRF	272B5125.1	152	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	455	8	OLD COACH TRL	2023	6/1/1984
8689	Northeast WRF	272A3140.1	287	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	860	8	OLD COACH TRL	2023	6/1/1984
8690	Northeast WRF	178B6060.1	323	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	969	8	FAIR GREEN DR	2022	2/1/1979
8691	Northeast WRF	178B8140.1	39	No	3	2	3x2	CCTV Long Term	CCTV Long Term	CAS		(GravityMain.COND_TT] >= (4) is No	N-N	1	116	8	COUNTRYSIDE BLVD	2022	2/1/1979
8692	Northeast WRF	279B2145.2	23	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	68	8			7/2/2003
8693	Northeast WRF	279B2135.1	142	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	425	8			7/2/2003
8694	Northeast WRF	280A1025.1	136	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	408	8			
8695	Northeast WRF	221A3085.2	57	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	172	8			
8696	Northeast WRF	221A4085.1	99	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	297	8			
8697	Northeast WRF	178B8135.1	40	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	120	8			2/1/1979
8698	Northeast WRF	179A1130.1	21	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	64	8			6/1/1981
8699	Northeast WRF	179A3005.1	65	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	195	8			6/1/1981
8700	Northeast WRF	232B8075.1	42	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	125	8			6/1/1979
8701	Northeast WRF	279B2145.1	208	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	624	8			7/2/2003
8702	Northeast WRF	291A4110.1	256	No	3	3	3x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	768	8			
8703	Northeast WRF	233B7055.1	111	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	332	8			6/1/1986
8704	Northeast WRF	233B7045.1	50	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	149	8			6/1/1986
8705	Northeast WRF	233B7110.1	300	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	901	8			6/1/1986
8706	Northeast WRF	233B7105.1	18	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	53	8			6/1/1986
8707	Northeast WRF	282B5040.1	58	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	173	8			7/6/2006
8708	Northeast WRF	279B7045.1	273	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	818	8			7/2/2003
8709	Northeast WRF	280A2140.1	23	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	70	8			7/2/2003
8710	Northeast WRF	233A3110.1	361	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,083	8			8/26/2003
8711	Northeast WRF	281B8140.1	232	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	696	8			1/1/2005
8712	Northeast WRF	281B8135.1	180	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	540	8			1/1/2005
8713	Northeast WRF	281B8145.1	105	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	315	8			1/1/2005
8714	Northeast WRF	245A1115.1	128	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	383	8			9/25/2006
8715	Northeast WRF	245A1120.1	175	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	524	8			9/25/2006
8716	Northeast WRF	245A1050.1	332	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	996	8			9/25/2006
8717	Northeast WRF	245A1070.1	333	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	999	8			9/25/2006
8718	Northeast WRF	245A1080.1	312	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	936	8			9/25/2006
8719	Northeast WRF	245A1055.1	105	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	315	8			9/25/2006
8720	Northeast WRF	245A1060.1	206	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	618	8			9/25/2006
8721	Northeast WRF	245A1110.1	267	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	801	8			9/25/2006
8722	Northeast WRF	245A1105.1	135	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	406	8			9/25/2006
8723	Northeast WRF	245A1100.1	247	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	740	8			9/25/2006
8724	Northeast WRF	245A1065.1	237	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	711	8			9/25/2006
8725	Northeast WRF	245A1075.1	224	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	672	8			9/25/2006
8726	Northeast WRF	245A1085.1	230	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	691	8			9/25/2006
8727	Northeast WRF	245A1090.1	161	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	483	8			9/25/2006
8728	Northeast WRF	245A1095.1	187	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	562	8			9/25/2006

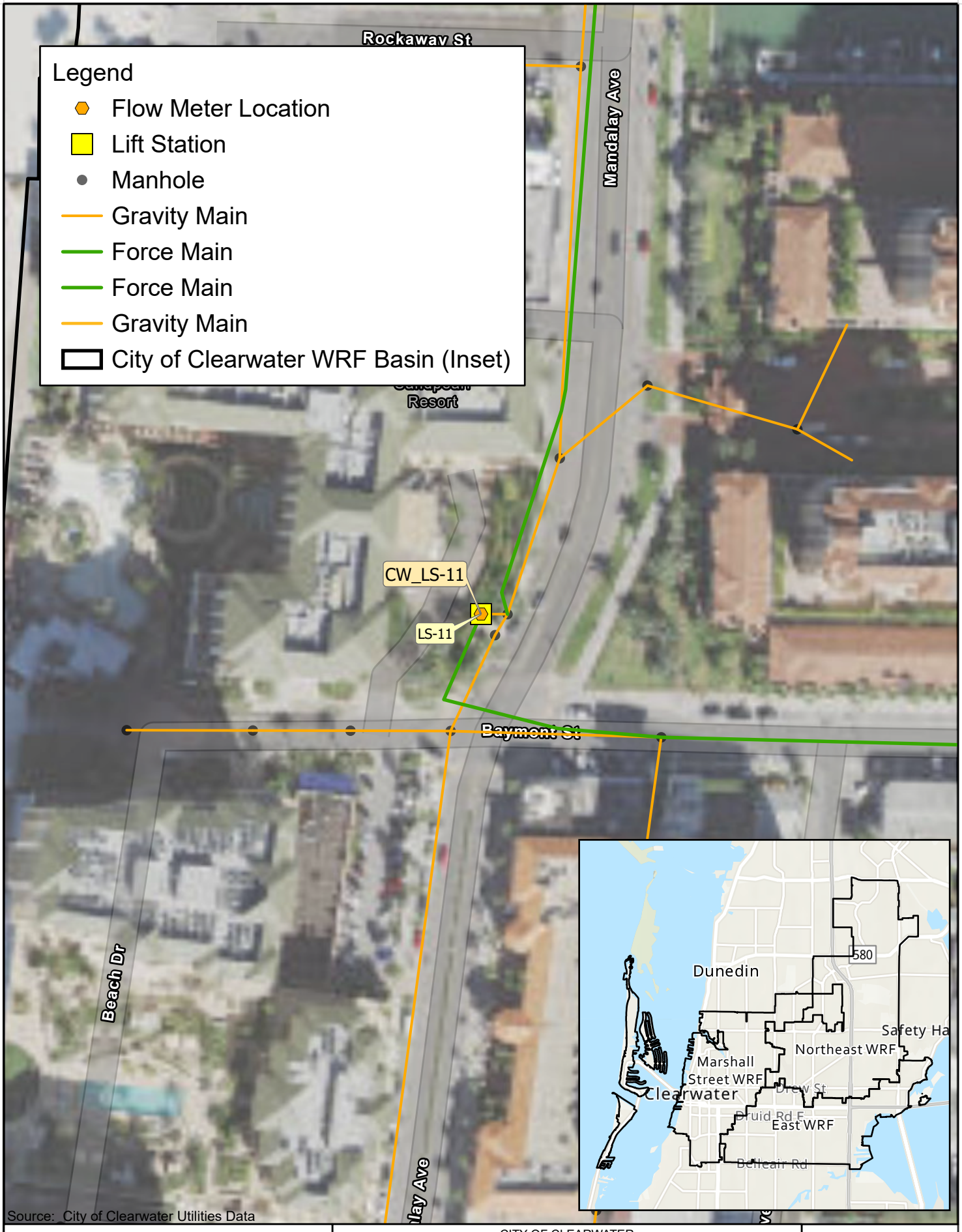
APPENDIX D - GRAVITY MAIN REHAB LIST

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	ZONE	ID	LENGTH	CCTV	CONDITION SCORE	CRITICALITY SCORE	BRE MATRIX	BRE GROUP	REHAB ACTIONS	MATERIAL	NEW MATERIAL	REASON	FLOWCHART BRANCH	NUMBER OF REHAB.	PROBABLE OPINION OF COSTS	DIAMETER	CIP PAVING STREET*	PAVING YEAR*	INSTALL DATE
8729	Northeast WRF	254A4085.1	91	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	272	8	ATLANTIS DR	2020	6/1/1976
8730	Northeast WRF	178A1150.1	267	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	801	8			12/1/2003
8731	Northeast WRF	178A2105.1	227	No	2	2	2x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	681	8			12/1/2003
8732	Northeast WRF	271B9005.1	120	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	360	8			9/1/2006
8733	Northeast WRF	271B9010.1	130	No	1	1	1x1	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	391	8			9/1/2006
8734	Northeast WRF	271B9015.1	233	No	1	1	1x1	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	699	8			9/1/2006
8735	Northeast WRF	271B9015.2	15	No	1	1	1x1	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	45	8			9/1/2006
8736	Northeast WRF	271B9010.2	15	No	1	1	1x1	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	45	8			9/1/2006
8737	Northeast WRF	271B9010.3	15	No	1	1	1x1	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	45	8			9/1/2006
8738	Northeast WRF	244A4504.1	54	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	162	8			10/22/2007
8739	Northeast WRF	233A2030.2	160	No	2	2	2x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	480	8			6/1/1986
8740	Northeast WRF	280B1100.1	77	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	232	8			6/1/1979
8741	Northeast WRF	271A3055.2	60	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	180	8			
8742	Northeast WRF	253B6045.1	67	No	3	3	3x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	202	8			6/1/1976
8743	Northeast WRF	253A2135.1	201	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	603	8			6/1/1976
8744	Northeast WRF	262B5090.1	34	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	103	8			10/27/2008
8745	Northeast WRF	262B5095.1	121	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	363	8			10/27/2008
8746	Northeast WRF	262B5100.1	83	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	249	8			10/27/2008
8747	Northeast WRF	262B5105.1	121	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	363	8			10/27/2008
8748	Northeast WRF	263B8097.1	109	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	328	8	STAG RUN BLVD	2023	6/1/1993
8749	Northeast WRF	265A4235.1	146	No	3	4	3x4	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	438	8			
8750	Northeast WRF	263A1050.1	77	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	230	8			6/1/1974
8751	Northeast WRF	283A1105.1	163	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	488	8			10/1/2009
8752	Northeast WRF	271A4070.1	63	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	190	8			1/13/2011
8753	Northeast WRF	271A4075.1	23	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	70	8			1/13/2011
8754	Northeast WRF	190A1625.1	359	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,076	8			
8755	Northeast WRF	190A1630.1	83	No	2	3	2x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	250	8			
8756	Northeast WRF	254B7005.2	15	No	3	2	3x2	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	45	8			6/1/1980
8757	Northeast WRF	281B8165.1	26	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	78	8			1/17/2012
8758	Northeast WRF	281B8160.1	82	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	247	8			1/17/2012
8759	Northeast WRF	281B8150.1	127	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	380	8			1/17/2012
8760	Northeast WRF	281B8155.1	99	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	296	8			1/17/2012
8761	Northeast WRF	281B7017.1	22	No	1	1	1x1	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	66	8			
8762	Northeast WRF	281B7018.1	20	No	1	1	1x1	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	59	8			
8763	Northeast WRF	281B7019.1	38	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	114	8			
8764	Northeast WRF	272A5045.1	78	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	235	8			3/29/1999
8765	Northeast WRF	281A2035.2	21	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	63	8			8/25/2010
8766	Northeast WRF	281A2035.3	24	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	71	8			8/25/2010
8767	Northeast WRF	281A2035.4	29	No	2	3	2x3	CCTV Long Term	CCTV Long Term	VCP		(GravityMain.COND_TT] >= (4) is No	N-N	1	87	8			8/25/2010
8768	Northeast WRF	272A5030.1	115	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	346	8			3/29/1999
8769	Northeast WRF	272A5035.1	218	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	653	8			3/29/1999
8770	Northeast WRF	272A5040.1	237	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	711	8			3/29/1999
8771	Northeast WRF	272A5010.1	50	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	149	8			3/29/1999
8772	Northeast WRF	272A5020.1	188	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	563	8			3/29/1999
8773	Northeast WRF	272A5025.1	130	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	390	8			3/29/1999
8774	Northeast WRF	190A1620.1	342	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,027	8			10/12/2010
8775	Northeast WRF	272A5050.1	307	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	922	8			3/29/1999
8776	Northeast WRF	272A5015.1	316	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	947	8			3/29/1999
8777	Northeast WRF	272A5005.1	187	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	561	8			3/29/1999
8778	Northeast WRF	272A5005.1	127	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	381	8			6/1/1973
8779	Northeast WRF	281B7015.1	118	No	1	1	1x1	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	355	8			2/8/2013
8780	Northeast WRF	281B7100.1	25	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	75	8			2/8/2013
8781	Northeast WRF	281B7105.1	95	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	285	8			2/8/2013
8782	Northeast WRF	281B7115.1	143	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	430	8			2/8/2013
8783	Northeast WRF	281B8147.1	50	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	150	8			1/18/2012
8784	Northeast WRF	281B8163.1	14	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	41	8			1/18/2012
8785	Northeast WRF	201B5000.1	92	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	276	8			5/1/2004
8786	Northeast WRF	201B5005.1	62	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	185	8			5/1/2004
8787	Northeast WRF	245A1125.1	34	No	3	2	3x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	103	8			6/1/1987
8788	Northeast WRF	211A1220.1	43	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	130	8			8/10/2015
8789	Northeast WRF	211A1230	17	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	51	8			8/10/2015
8790	Northeast WRF	273B6030.2	20	No	1	2	1x2	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	60	8	EDENWOOD ST	2020	8/19/2015
8791	Northeast WRF	273B6120.2	20	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	61	8	FAIRWOOD AVE	2020	8/19/2015
8792	Northeast WRF	273B6145.2	50	No	1	4	1x4	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	150	8	FAIRWOOD AVE	2020	8/19/2015
8793	Northeast WRF	282B5005.2	21	No	1	3	1x3	CCTV Long Term	CCTV Long Term	DIP		(GravityMain.COND_TT] >= (4) is No	N-N	1	63	8	PARK TRAIL LN	2020	8/19/2015
8794	Northeast WRF	221A4205.1	87	No	2	2	2x2	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	261	8			
8795	Northeast WRF	221A4200.1	64	No	2	3	2x3	CCTV Long Term	CCTV Long Term	XXX		(GravityMain.COND_TT] >= (4) is No	N-N	1	193	8			
8796	Northeast WRF	280B8140.1	141	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	423	8			6/22/2012
8797	Northeast WRF	264B7075.1	60	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	180	8			11/22/2016
8798	Northeast WRF	264B7080.1	61	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	183	8			11/22/2016
8799	Northeast WRF	264B7085.1	64	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	192	8			11/22/2016
8800	Northeast WRF	264B7070.1	390	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,170	8			11/22/2016
8801	Northeast WRF	264B7065.1	398	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,194	8			11/22/2016
8802	Northeast WRF	264B7060.1	67	No	1	3	1x3	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	202	8			11/22/2016
8803	Northeast WRF	264B7055.1	75	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	225	8			11/22/2016
8804	Northeast WRF	264B7050.1	400	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	1,200	8			11/22/2016
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8806	Northeast WRF	291A1125.1	11	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	33	4			5/1/2015
8807	Northeast WRF	291A1125.2	12	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	36	12			5/1/2015
8808	Northeast WRF	291A1125.3	27	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	81	16			5/1/2015
8809	Northeast WRF	291A1125.4	42	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	125	16			5/1/2015
8810	Northeast WRF	291A1150.1	106	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	318	8			5/1/2015
8811	Northeast WRF	291A1145.1	65	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	195	8			5/1/2015
8812	Northeast WRF	291A1140.1	97	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	291	8			5/1/2015
8813	Northeast WRF	291A1135.1	10	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	30	8			5/1/2015
8814	Northeast WRF	291A1125.5	15	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	46	12			5/1/2015
8815	Northeast WRF	291A1130.1	62	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	186	16			5/1/2015
8816	Northeast WRF	291A1155.1	108	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	324	6			5/1/2015
8817	Northeast WRF	291A1160.1	25	No	1	2	1x2	CCTV Long Term	CCTV Long Term	PVC		(GravityMain.COND_TT] >= (4) is No	N-N	1	75	4			5/1/2015

APPENDIX E

FLOW METER LOCATION MAPS



TETRA TECH

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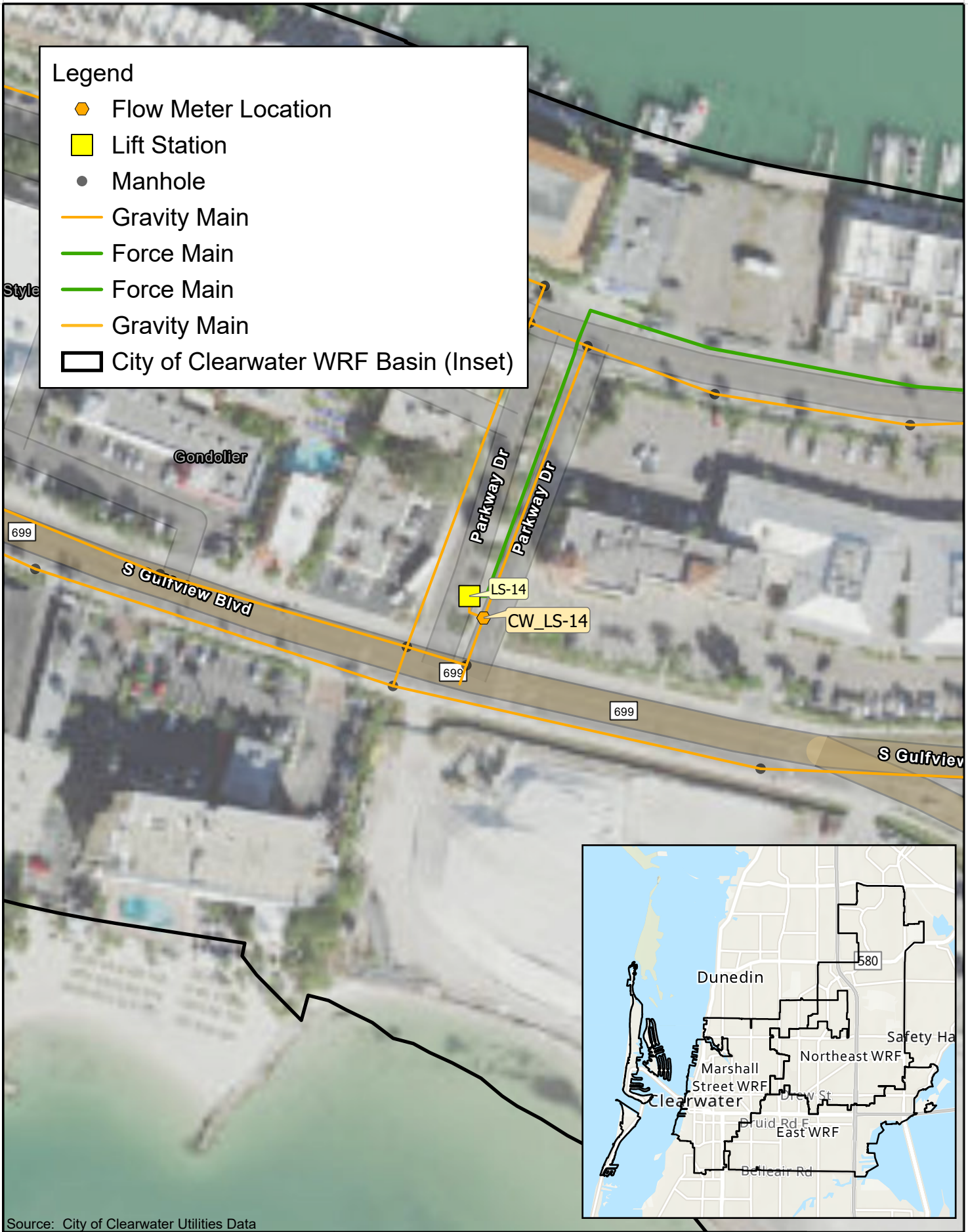
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Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
FLOW METER LOCATIONS
METER: CW_LS-11 - MARSHALL STREET WRF

APPENDIX E-1

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Source: City of Clearwater Utilities Data

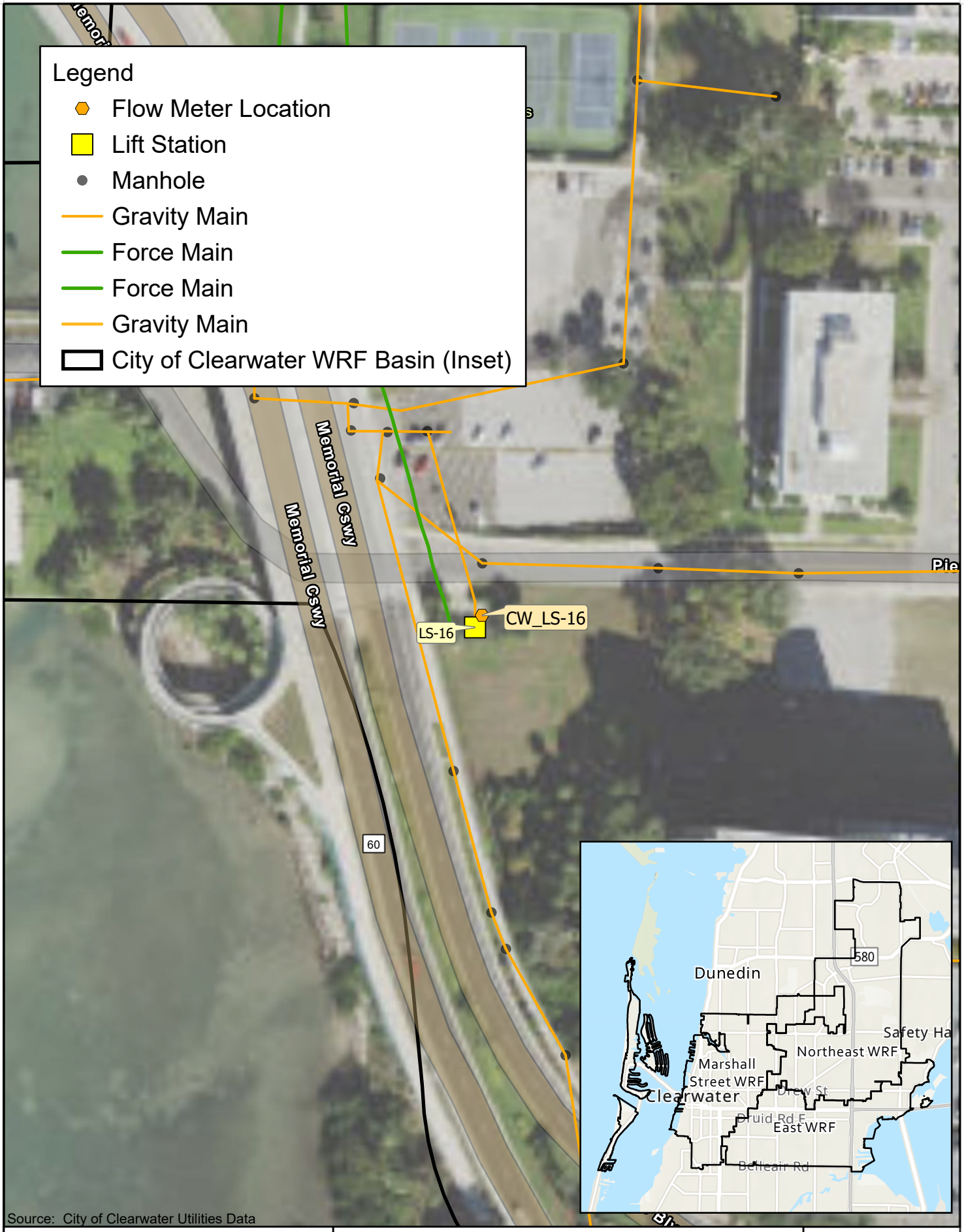
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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
FLOW METER LOCATIONS
METER: CW_LS-14 - MARSHALL STREET WRF

APPENDIX E-2

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Source: City of Clearwater Utilities Data

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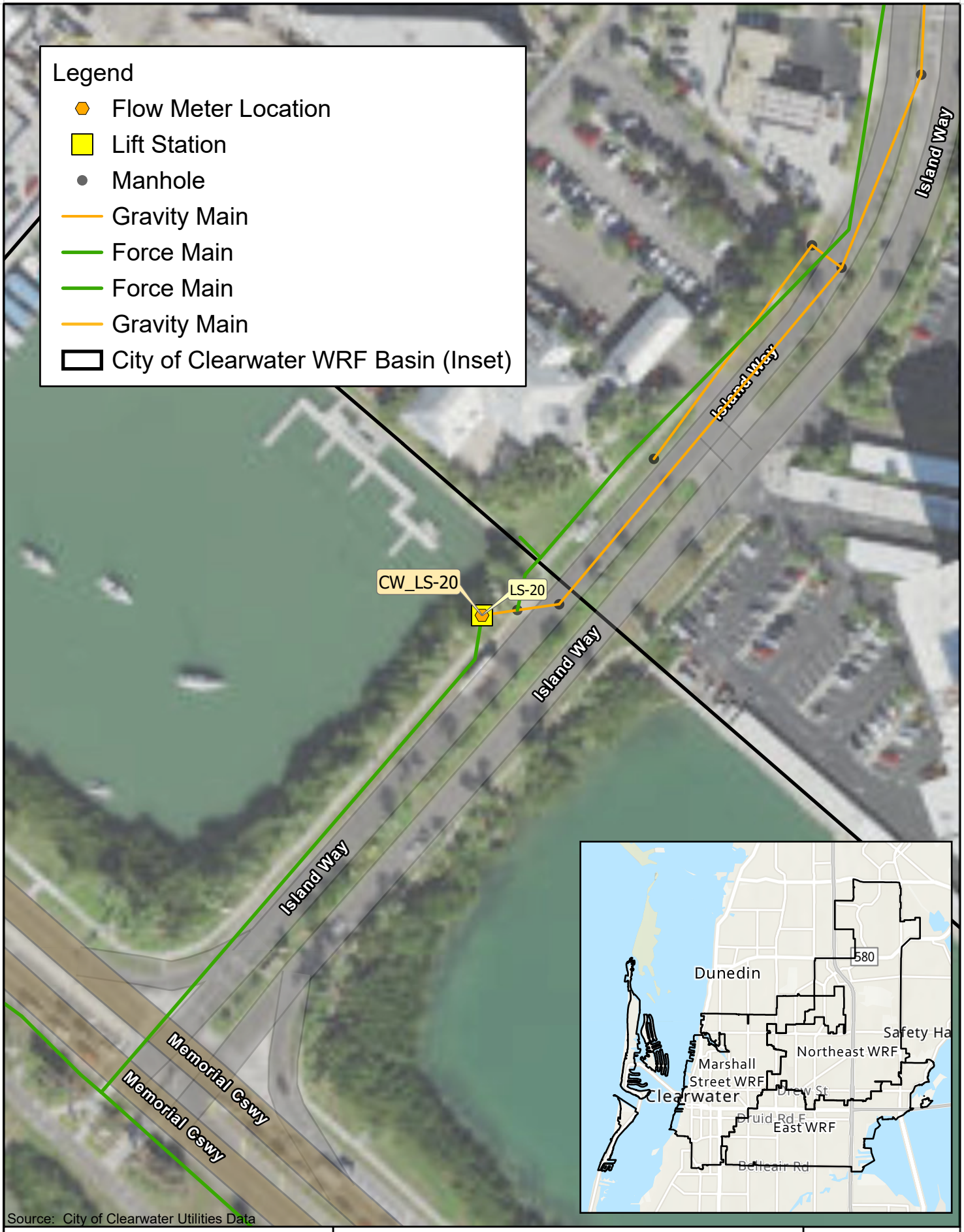
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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
FLOW METER LOCATIONS
METER: CW_LS-16 - MARSHALL STREET WRF

APPENDIX E-3

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Source: City of Clearwater Utilities Data

TETRA TECH

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Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
FLOW METER LOCATIONS
METER: CW_LS-20 - MARSHALL STREET WRF

APPENDIX E-4

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Source: City of Clearwater Utilities Data

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TETRA TECH

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0 100

Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

FLOW METER LOCATIONS
METER: CW_LS-24 - MARSHALL STREET WRF

APPENDIX E-5



Source: City of Clearwater Utilities Data

TETRA TECH

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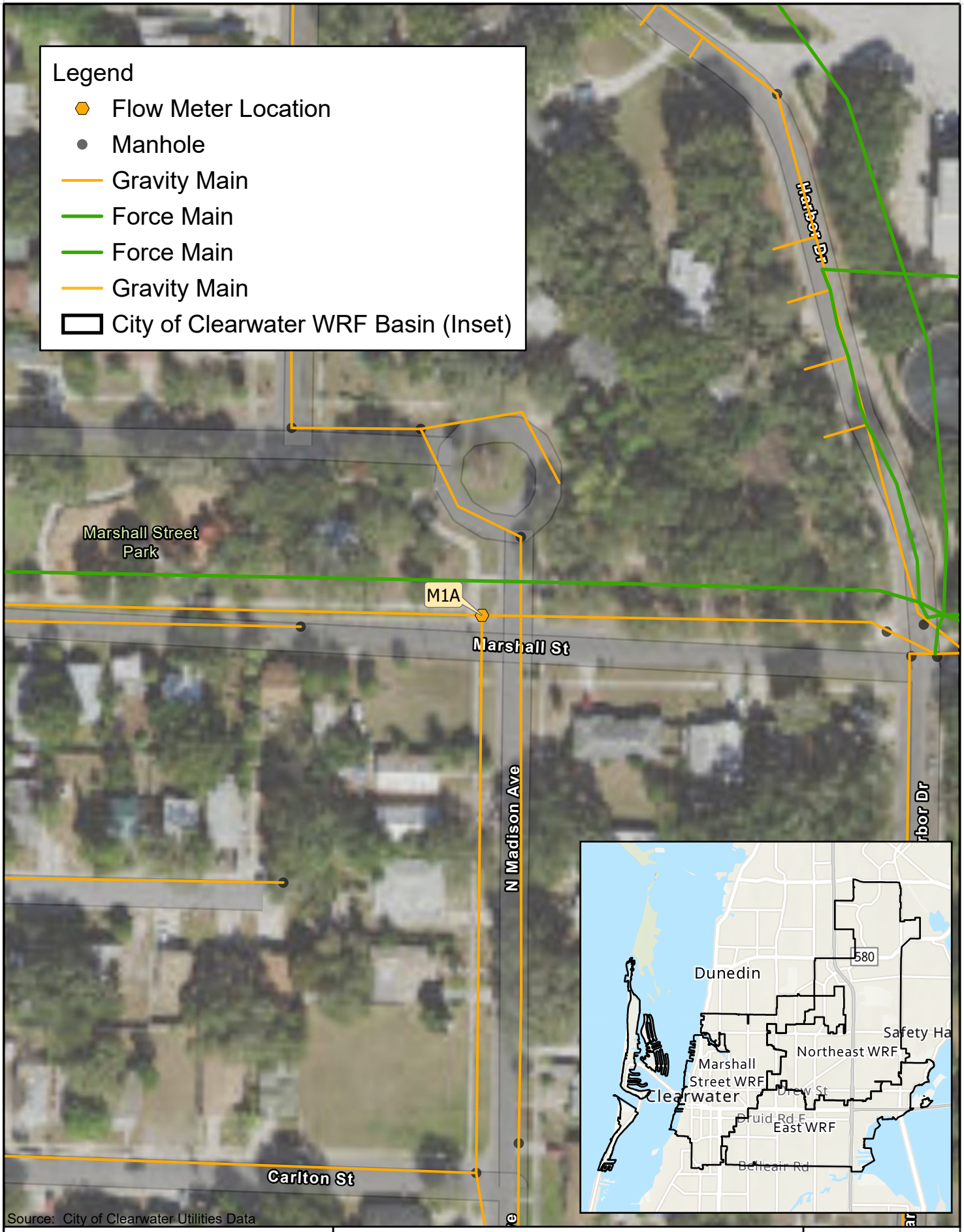
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Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
FLOW METER LOCATIONS
METER: CW_LS-45 - MARSHALL STREET WRF

APPENDIX E-6

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Source: City of Clearwater Utilities Data

TETRA TECH

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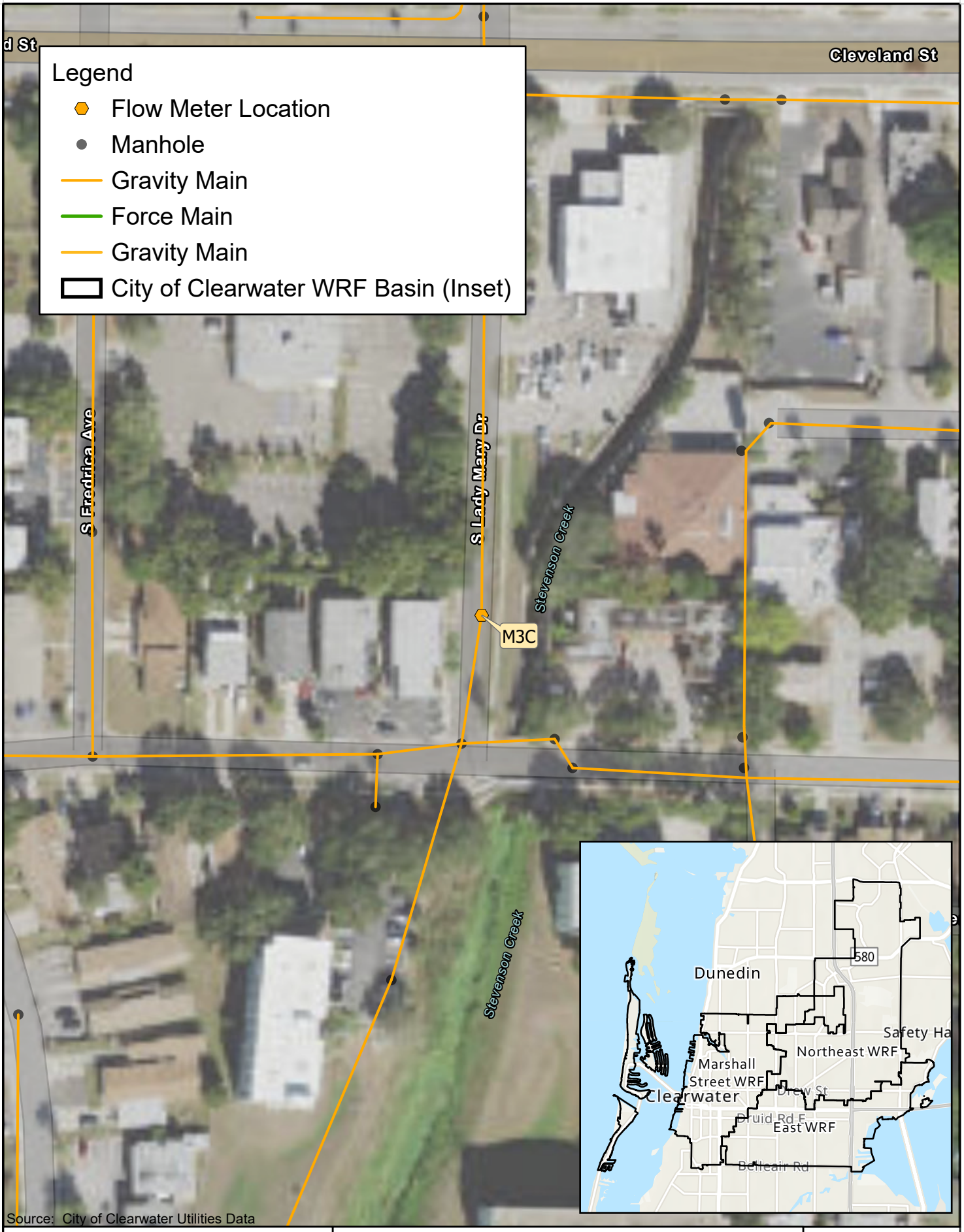
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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

FLOW METER LOCATIONS
METER: M1A - MARSHALL STREET WRF

APPENDIX E-7

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Source: City of Clearwater Utilities Data

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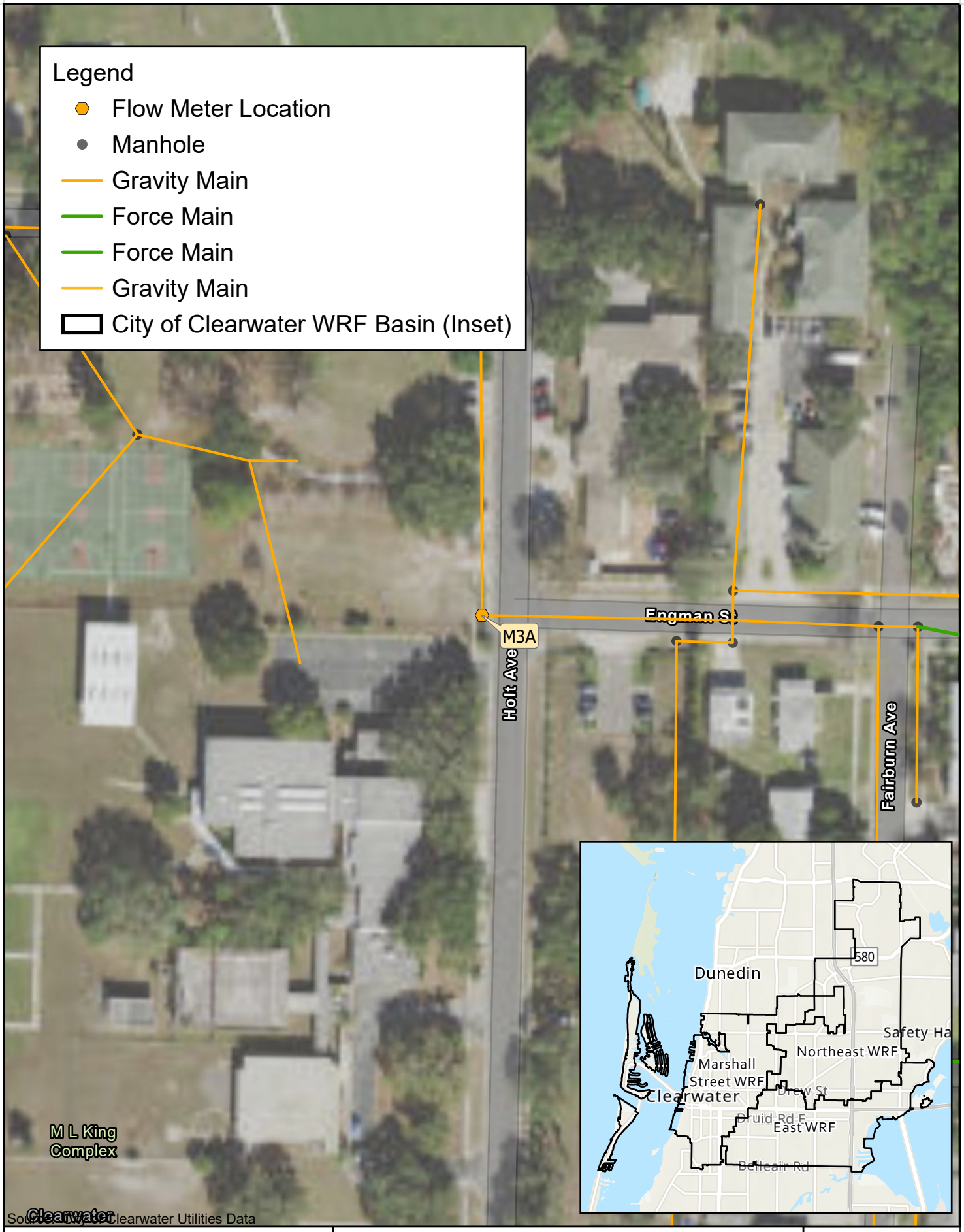
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Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
FLOW METER LOCATIONS
METER: M3C - MARSHALL STREET WRF

APPENDIX E-8

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Source: City of Clearwater Utilities Data

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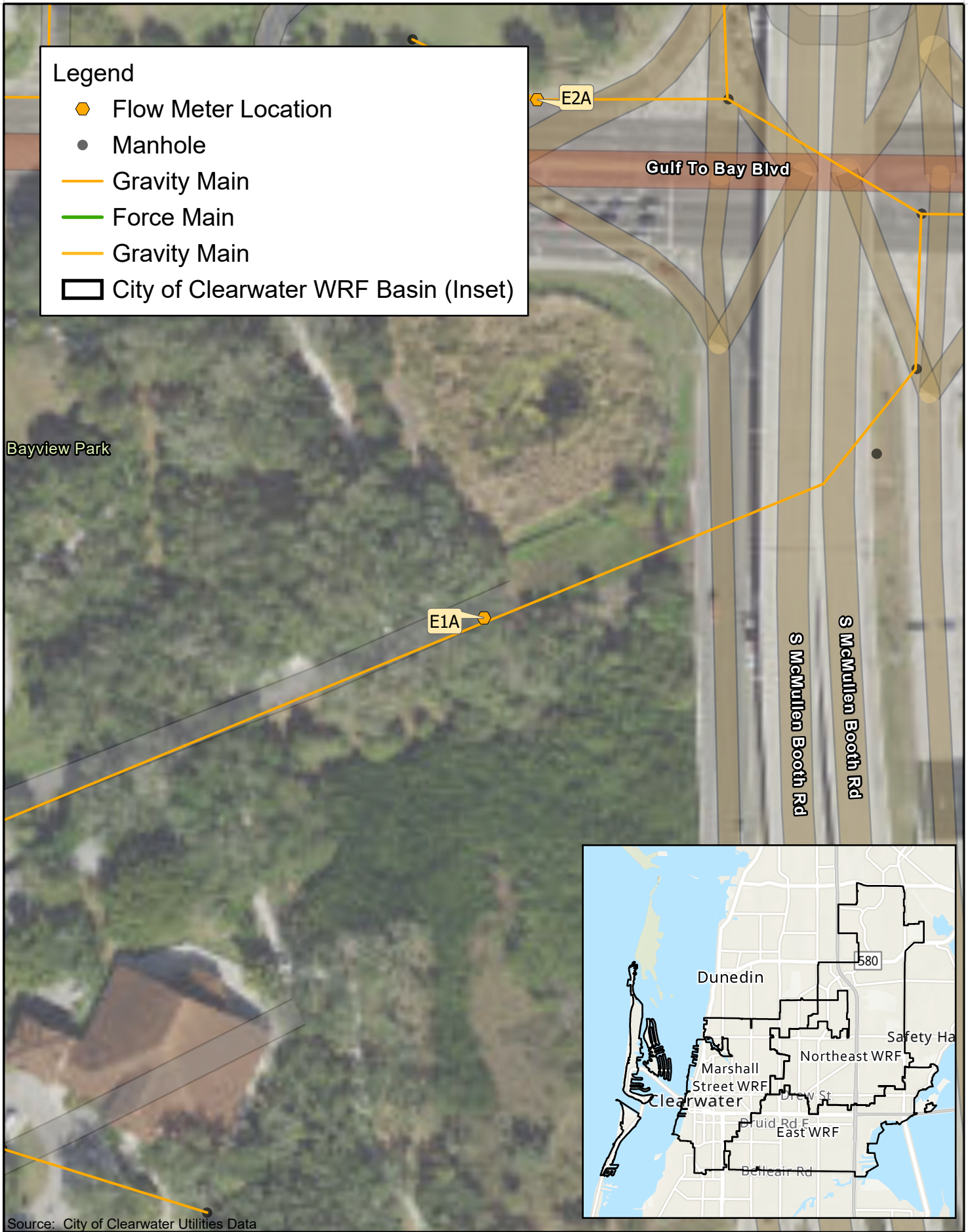
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Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

FLOW METER LOCATIONS
METER: M3A - MARSHALL STREET WRF

APPENDIX E-9



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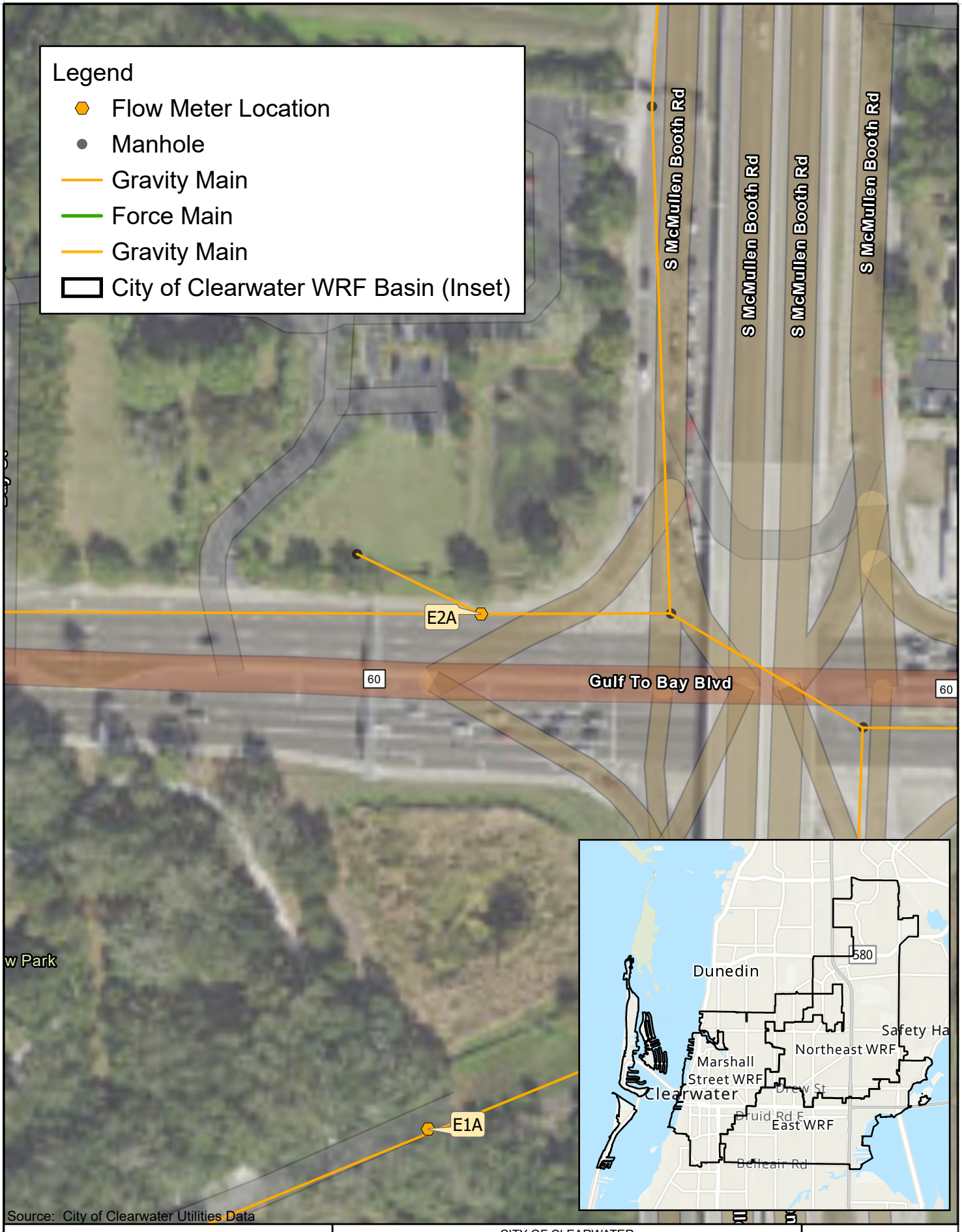
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Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

FLOW METER LOCATIONS
METER: E1A - EAST WRF

APPENDIX E-10



Source: City of Clearwater Utilities Data

TETRA TECH

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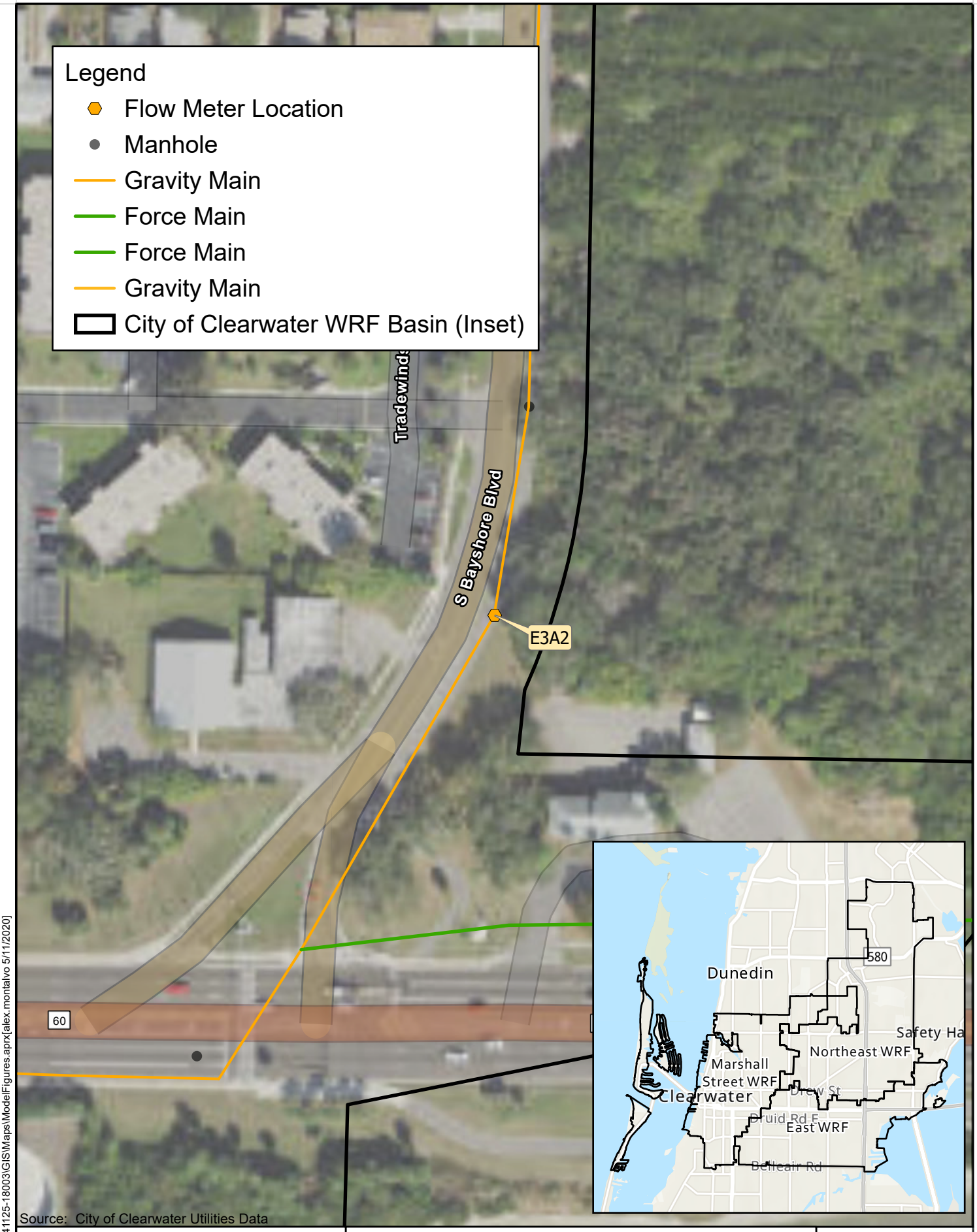
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Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
FLOW METER LOCATIONS
METER: E2A - EAST WRF

APPENDIX E-11

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Source: City of Clearwater Utilities Data

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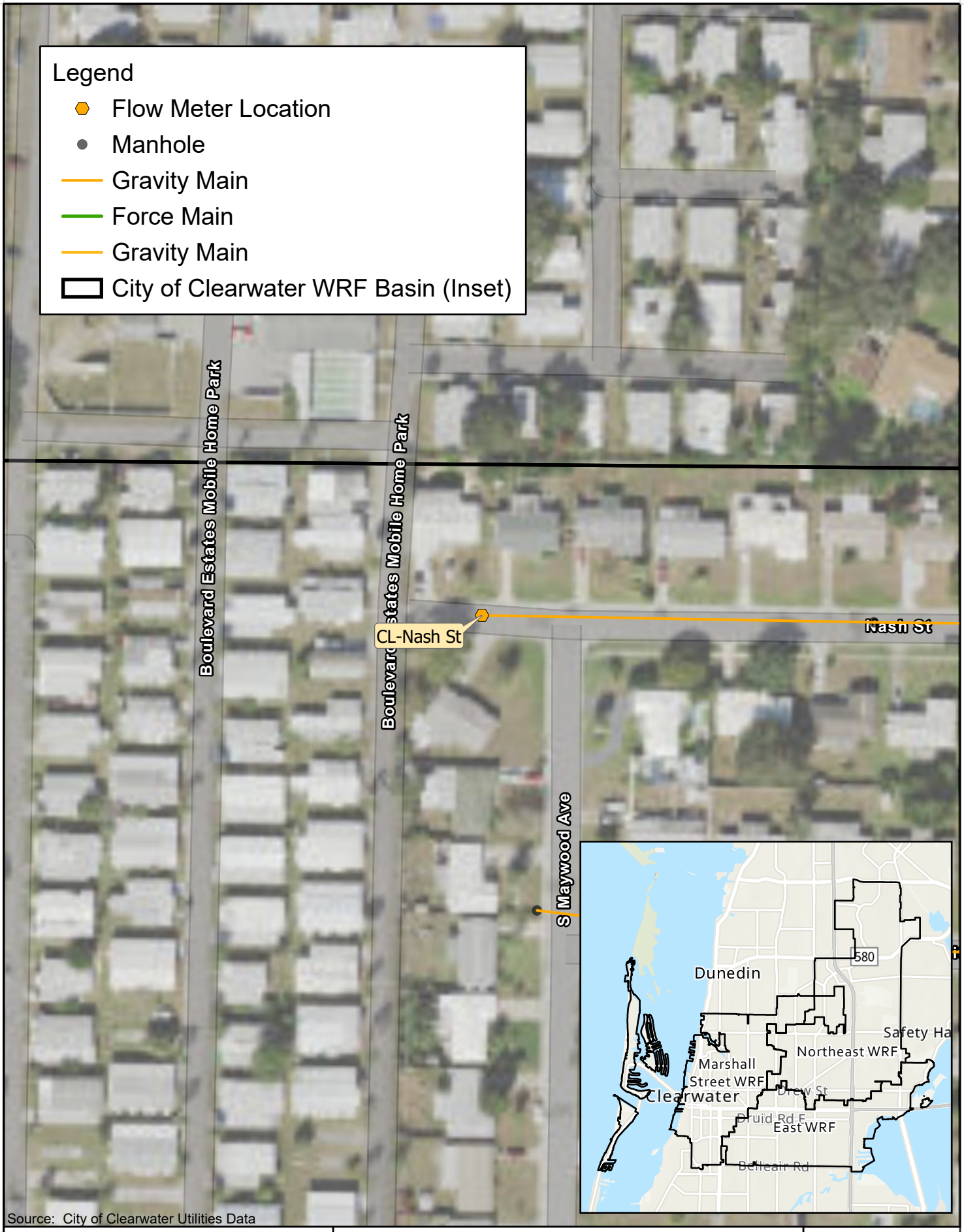
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Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

FLOW METER LOCATIONS
METER: E3A2 - EAST WRF

APPENDIX E-12



Source: City of Clearwater Utilities Data

TETRA TECH

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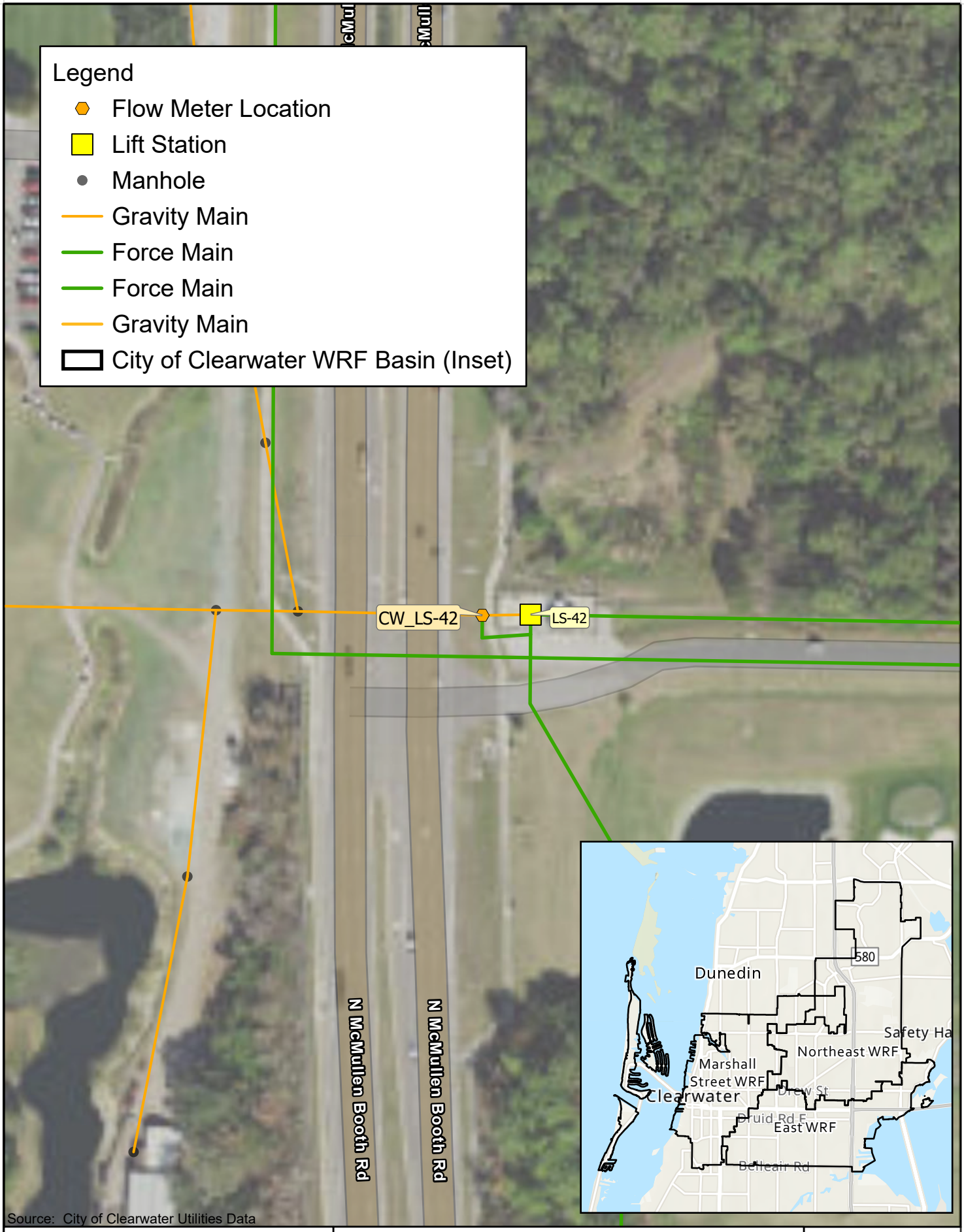
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Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
FLOW METER LOCATIONS
METER: CL-Nash St - EAST WRF

APPENDIX E-13

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Source: City of Clearwater Utilities Data

TETRA TECH

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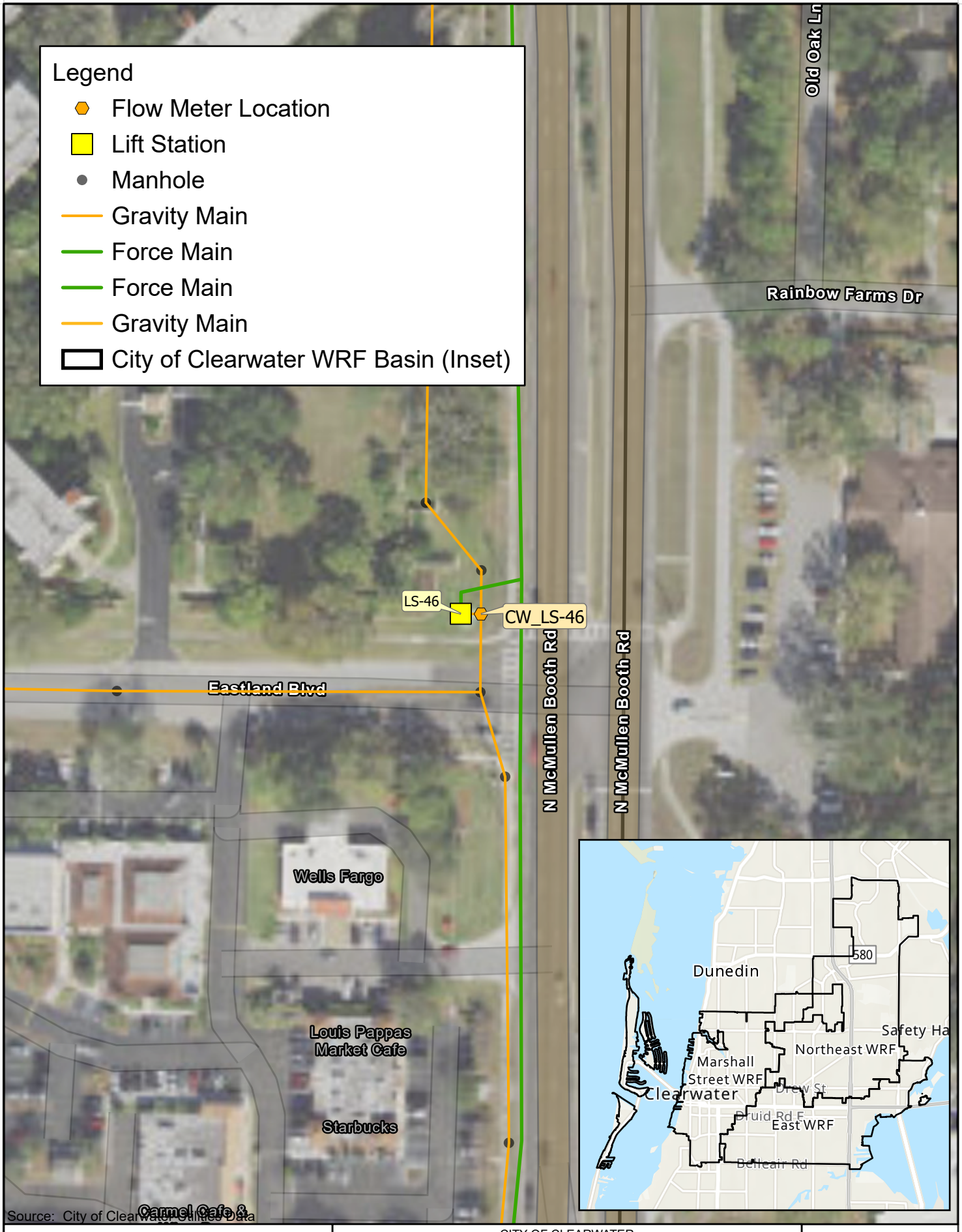
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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

FLOW METER LOCATIONS
METER: CW_LS-42 - NORTHEAST WRF

APPENDIX E-14

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Source: City of Clearwater Utilities Data

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TETRA TECH

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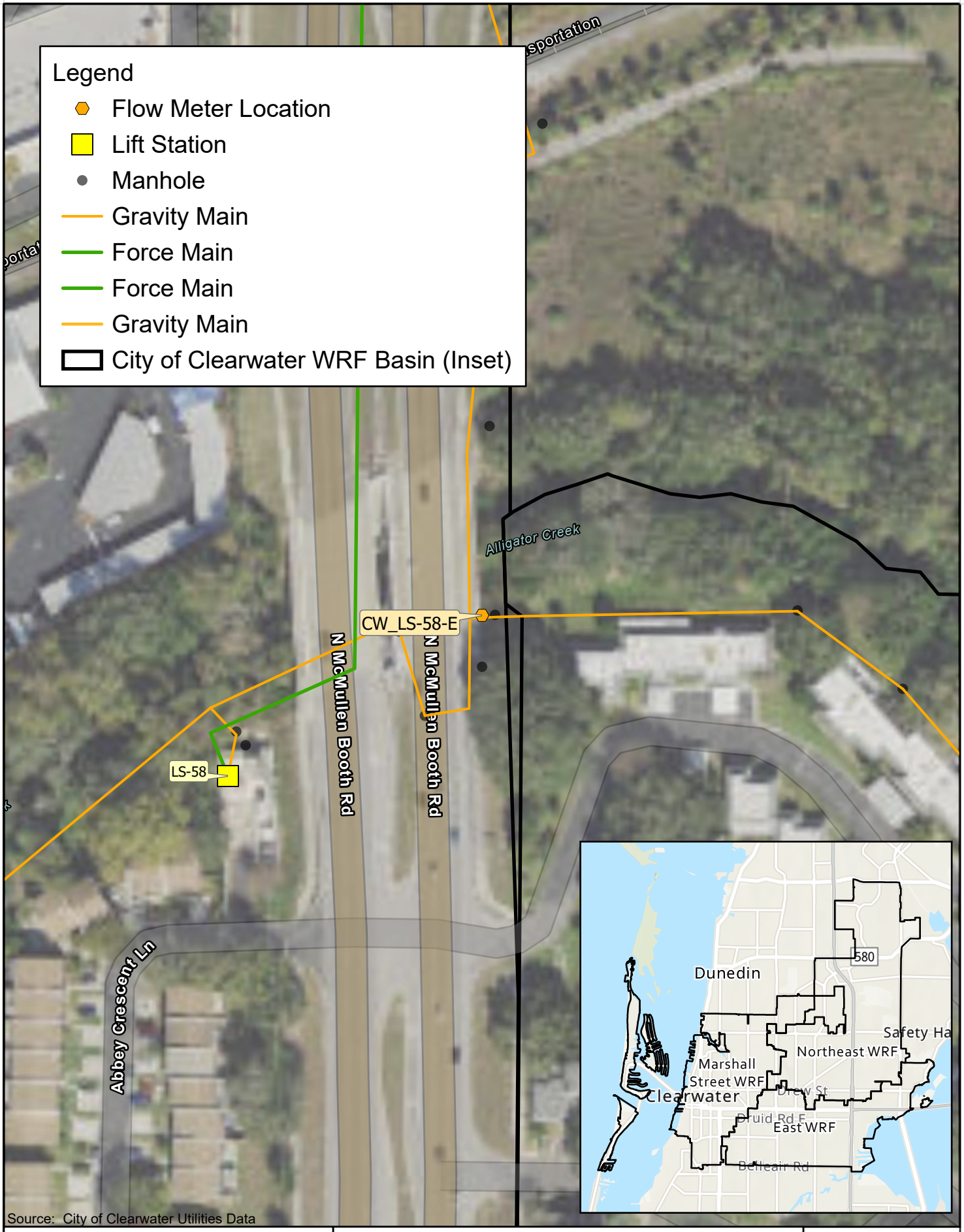
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Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

FLOW METER LOCATIONS
METER: CW_LS-46 - NORTHEAST WRF

APPENDIX E-15



Source: City of Clearwater Utilities Data

TETRA TECH

N

0 100

Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
FLOW METER LOCATIONS
METER: CW_LS-58-E - NORTHEAST WRF

APPENDIX E-16

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Source: City of Clearwater Utilities Data

TETRA TECH

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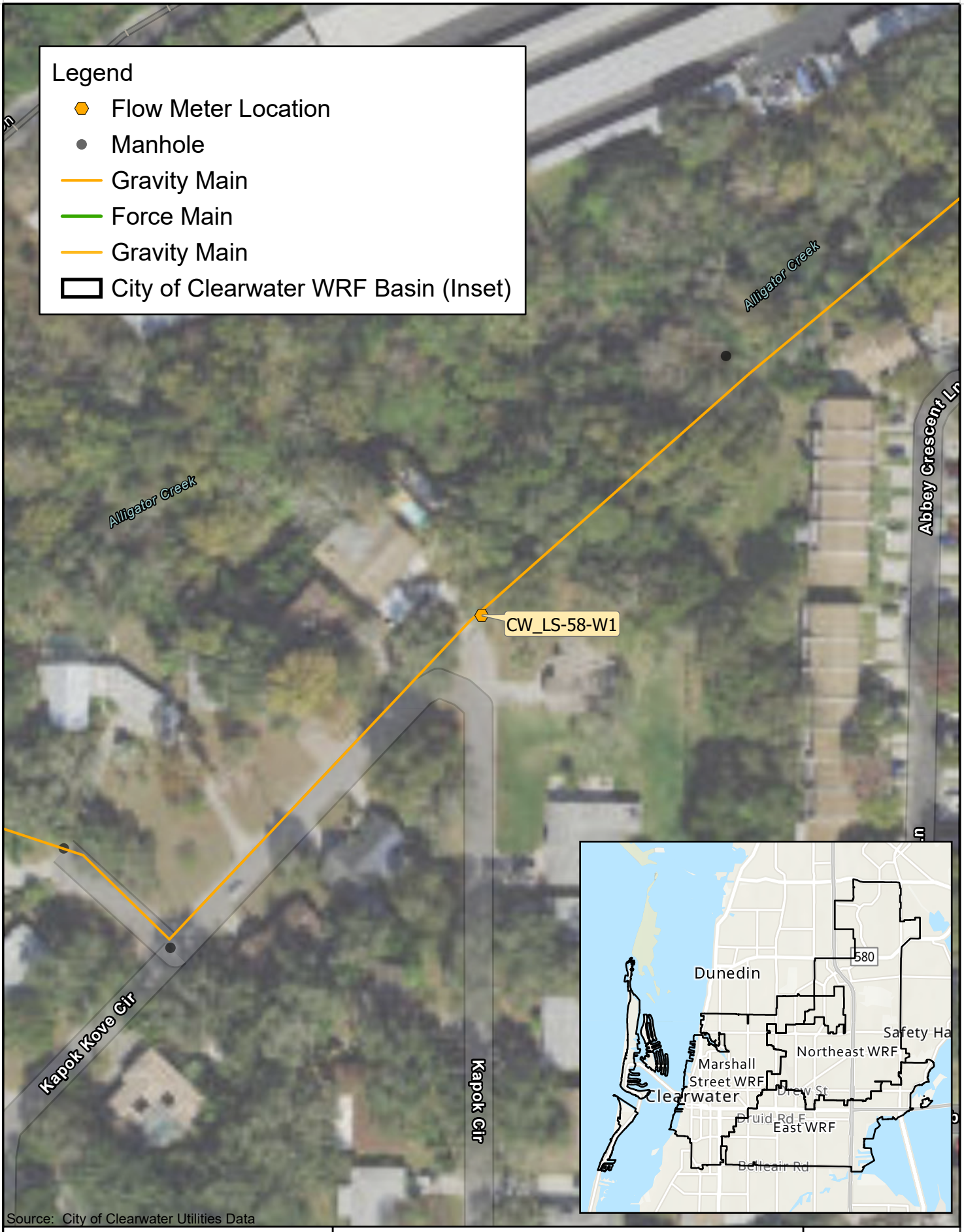
Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

FLOW METER LOCATIONS
METER: CW_LS-53 - NORTHEAST WRF

APPENDIX E-17

P:\IER\41125\200-41125-18003\GIS\Maps\ModelFigures.aprx[alex.montalvo 5/11/2020]



Source: City of Clearwater Utilities Data

P:\IER\41125\200-41125-18003\GIS\Maps\ModelFigures.aprx[alex.montalvo 5/11/2020]

TETRA TECH

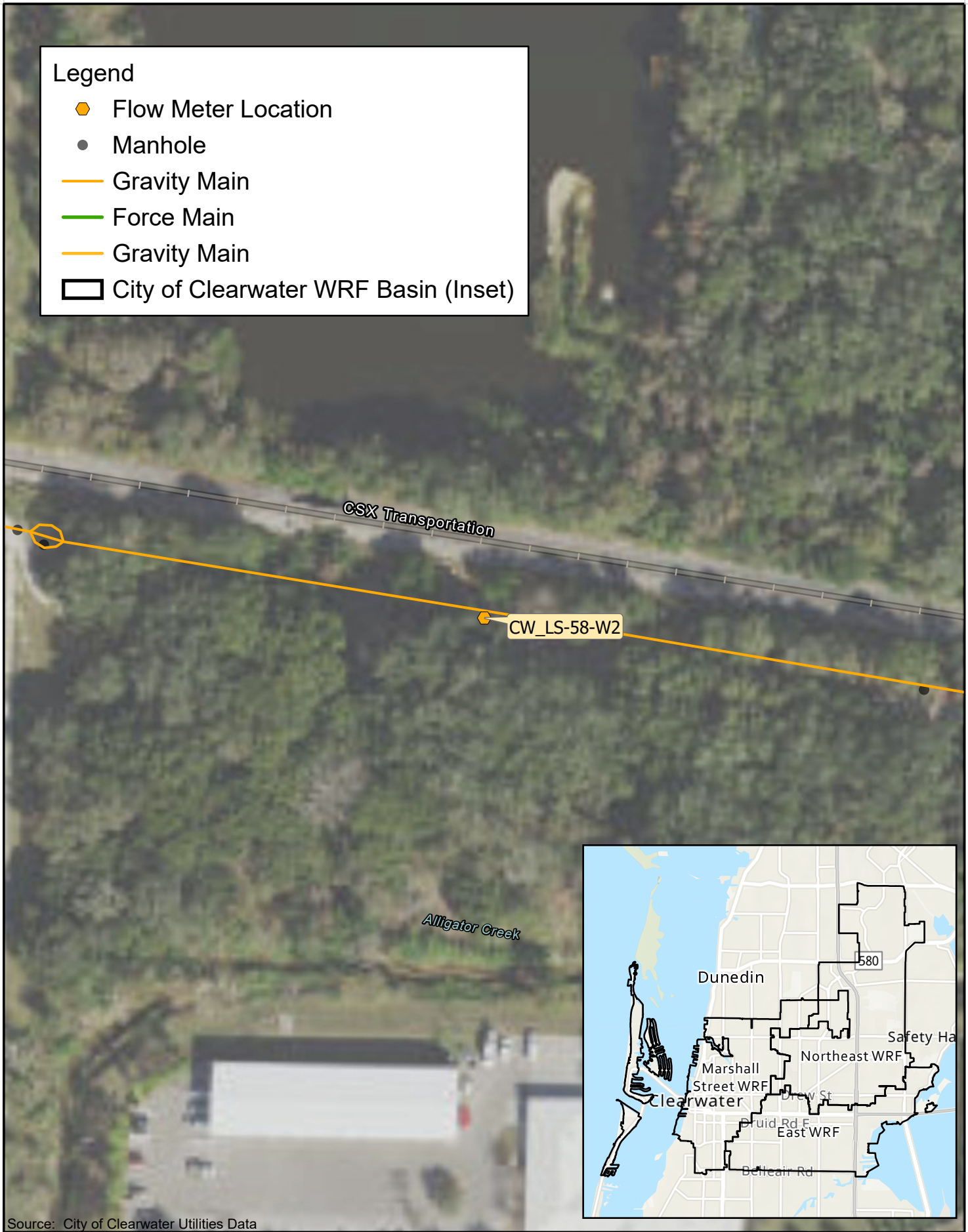
N

0 100

Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
FLOW METER LOCATIONS
METER: CW_LS-58-W1 - NORTHEAST WRF

APPENDIX E-18



Source: City of Clearwater Utilities Data

P:\IER\41125\200-41125-18003\GIS\Maps\ModelFigures.aprx[alex.montalvo 5/11/2020]

TETRA TECH

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Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
FLOW METER LOCATIONS
METER: CW_LS-58-W2 - NORTHEAST WRF

APPENDIX E-19



Source: City of Clearwater Utilities Data

TETRA TECH

N

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Feet

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

FLOW METER LOCATIONS
METER: CW_LS-58-W3 - NORTHEAST WRF

APPENDIX E-20

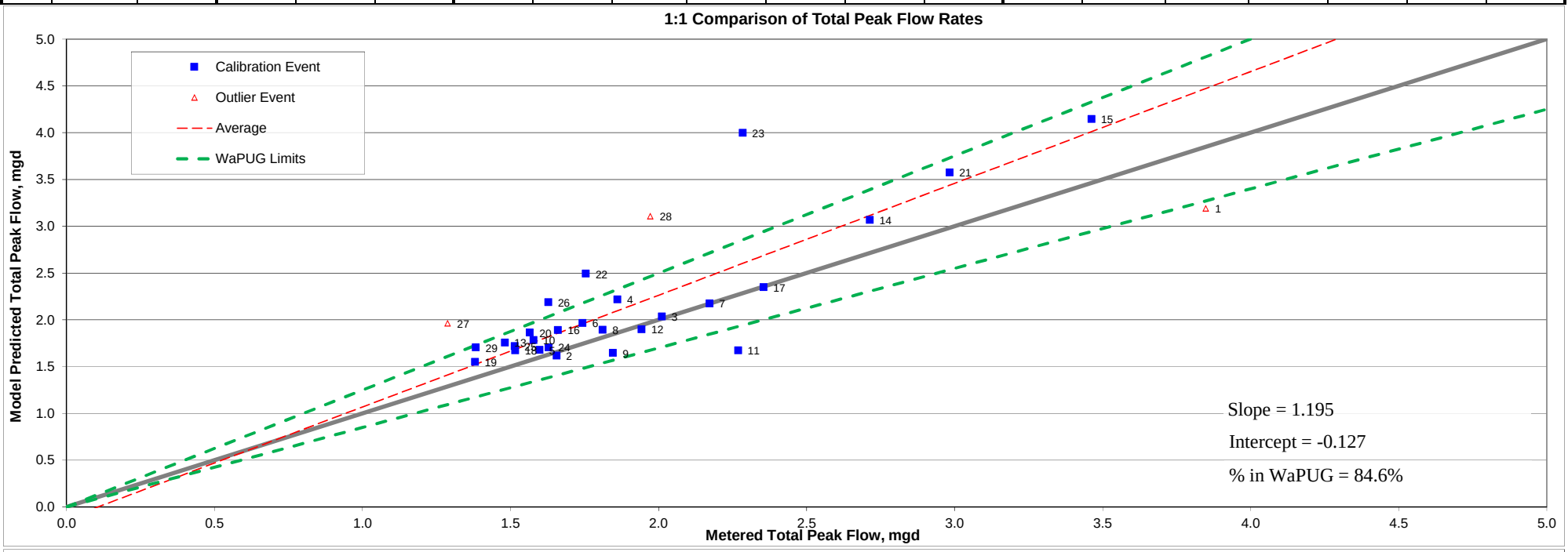
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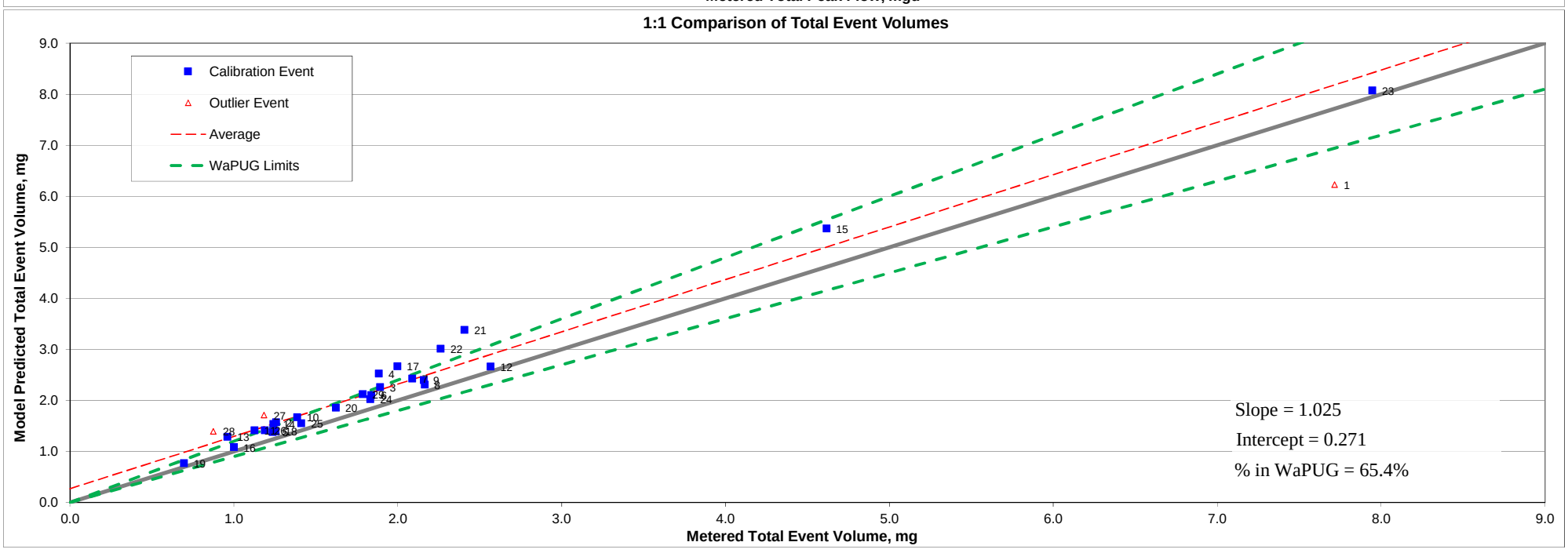
APPENDIX F

WET WEATHER CALIBRATION RESULTS

M3A: Hydraulic Model Validation Results

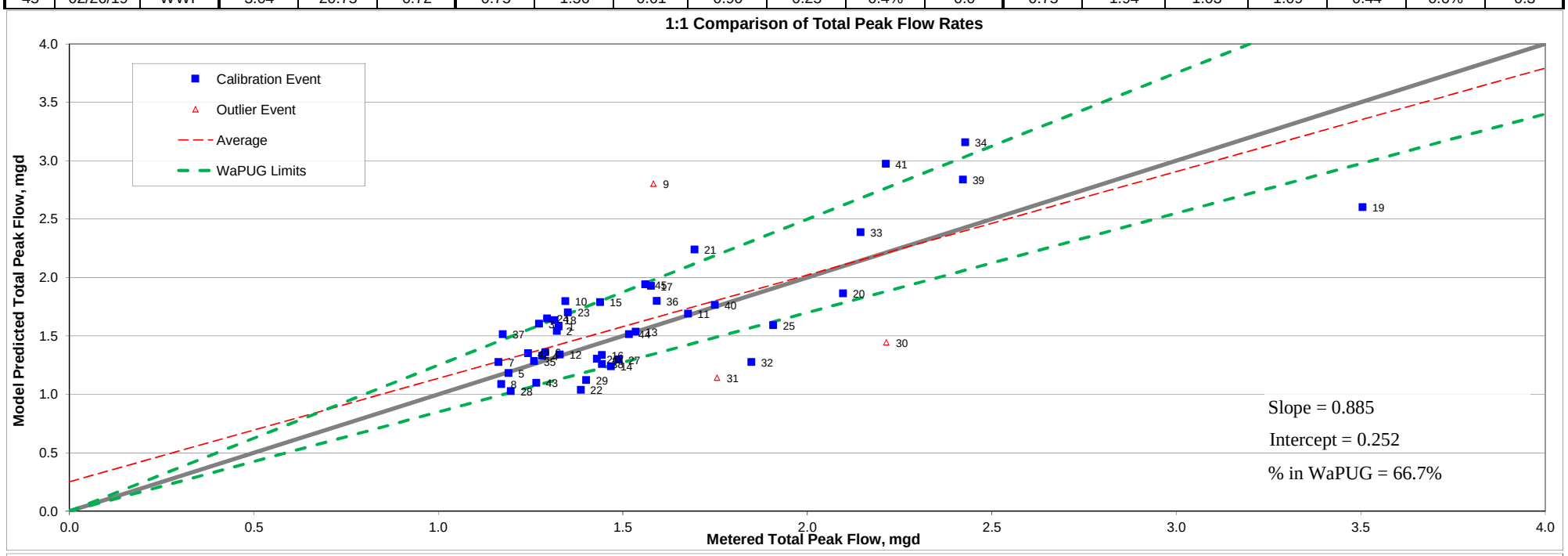
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	**02/04/18**	**WWF**	**1.97**	**89.00**	**1.02**	**1.49**	**3.85**	**2.20**	**7.72**	**2.21**	**2.1%**	**0.00**	**1.35**	**3.19**	**1.73**	**6.23**	**1.23**	**1.2%**	**1.36**
2	04/10/18	WWF	0.99	29.75	0.28	0.90	1.66	0.49	1.26	0.14	0.3%	0.00	1.06	1.62	0.53	1.57	0.26	0.5%	1.09
3	04/15/18	WWF	1.34	39.25	1.12	1.03	2.01	0.80	1.89	0.20	0.3%	0.00	1.05	2.03	0.90	2.26	0.54	0.8%	0.18
4	05/13/18	WWF	1.87	44.50	0.72	0.83	1.86	0.98	1.89	0.35	0.3%	0.00	1.02	2.22	1.14	2.52	0.64	0.6%	0.18
5	05/20/18	WWF	0.60	27.25	0.46	0.93	1.60	0.56	1.24	0.19	0.6%	0.00	1.08	1.68	0.51	1.38	0.15	0.5%	0.21
6	05/30/18	WWF	1.07	39.00	0.66	1.04	1.74	0.60	1.84	0.14	0.3%	0.00	1.07	1.96	0.82	2.10	0.36	0.6%	0.23
7	06/25/18	WWF	0.97	40.75	0.96	0.99	2.17	0.87	2.09	0.41	0.8%	0.00	1.13	2.17	1.05	2.42	0.51	1.0%	0.21
8	06/28/18	WWF	0.89	42.50	0.60	0.97	1.81	0.68	2.17	0.45	0.9%	0.00	1.13	1.89	0.89	2.31	0.31	0.7%	0.27
9	07/11/18	WWF	0.71	47.50	0.70	0.94	1.85	0.80	2.16	0.30	0.8%	0.00	1.06	1.64	0.59	2.40	0.31	0.8%	0.21
10	07/22/18	WWF	0.60	32.50	0.30	0.82	1.58	0.46	1.39	0.28	0.9%	0.00	1.00	1.78	0.84	1.67	0.31	1.0%	1.04
11	08/03/18	WWF	0.57	27.00	0.49	0.90	2.27	1.16	1.13	0.11	0.4%	0.00	1.13	1.67	0.55	1.41	0.14	0.5%	1.11
12	08/11/18	WWF	1.17	49.25	0.49	0.90	1.94	0.83	2.57	0.72	1.1%	0.00	1.10	1.90	0.58	2.66	0.40	0.6%	0.23
13	08/26/18	WWF	0.51	23.75	0.51	0.90	1.48	0.33	0.96	0.07	0.3%	0.00	1.06	1.76	0.67	1.28	0.23	0.8%	0.24
14	08/28/18	WWF	1.92	21.00	1.75	0.89	2.71	1.61	1.24	0.47	0.5%	0.00	1.05	3.06	1.67	1.53	0.61	0.6%	0.48
15	08/29/18	WWF	3.15	63.50	1.98	0.89	3.46	2.43	4.62	2.27	1.3%	0.00	1.07	4.15	2.94	5.37	2.53	1.5%	2.41
16	09/07/18	WWF	0.58	21.25	0.56	0.90	1.66	0.50	1.00	0.21	0.7%	0.00	1.01	1.89	0.73	1.08	0.19	0.6%	0.24
17	09/24/18	WWF	1.99	42.50	1.23	0.88	2.36	1.17	2.00	0.45	0.4%	0.00	1.03	2.35	1.02	2.67	0.85	0.8%	0.25
18	10/09/18	WWF	0.66	28.50	0.26	0.88	1.52	0.34	1.26	0.21	0.6%	0.00	1.03	1.67	0.44	1.39	0.16	0.5%	0.41
19	10/26/18	WWF	0.55	14.50	0.42	1.03	1.38	0.28	0.70	0.07	0.2%	0.00	1.16	1.55	0.34	0.77	0.06	0.2%	0.24
20	11/02/18	WWF	0.77	35.25	0.66	0.94	1.57	0.65	1.62	0.24	0.6%	0.00	1.07	1.86	0.58	1.86	0.29	0.7%	0.24
21	12/09/18	WWF	2.52	48.25	1.98	0.90	2.98	1.72	2.41	0.59	0.4%	0.00	1.04	3.57	2.23	3.38	1.28	1.0%	0.25
22	12/14/18	WWF	2.80	42.00	0.61	1.02	1.75	0.73	2.26	0.48	0.3%	0.00	1.12	2.49	1.22	3.01	1.06	0.7%	0.25
23	12/19/18	WWF	4.89	113.50	1.33	1.07	2.28	1.46	7.95	2.88	1.1%	0.00	1.05	4.00	2.82	8.07	3.10	1.2%	0.25
24	01/04/19	WWF	0.80	41.00	0.55	0.97	1.63	0.53	1.83	0.18	0.4%	0.00	1.02	1.70	0.68	2.02	0.28	0.7%	0.25
25	01/24/19	WWF	0.54	33.25	0.34	0.97	1.51	0.46	1.41	0.07	0.2%	0.00	1.00	1.72	0.46	1.55	0.16	0.5%	0.31
26	01/27/19	WWF	1.89	23.75	0.31	1.02	1.63	0.54	1.19	0.18	0.2%	0.00	1.03	2.19	1.08	1.41	0.39	0.4%	0.25
27	**02/12/19**	**WWF**	**0.83**	**26.75**	**0.67**	**1.01**	**1.29**	**0.42**	**1.18**	**0.06**	**0.1%**	**0.00**	**1.33**	**1.96**	**0.66**	**1.71**	**0.23**	**0.5%**	**0.24**
28	**02/26/19**	**WWF**	**2.82**	**13.75**	**0.97**	**1.19**	**1.97**	**0.70**	**0.87**	**0.19**	**0.1%**	**0.00**	**1.54**	**3.11**	**1.61**	**1.39**	**0.51**	**0.3%**	**0.25**
29	03/04/19	WWF	0.82	39.25	0.64	1.04	1.38	0.54	1.79	0.09	0.2%	0.00	1.16	1.70	0.50	2.12	0.22	0.5%	0.25

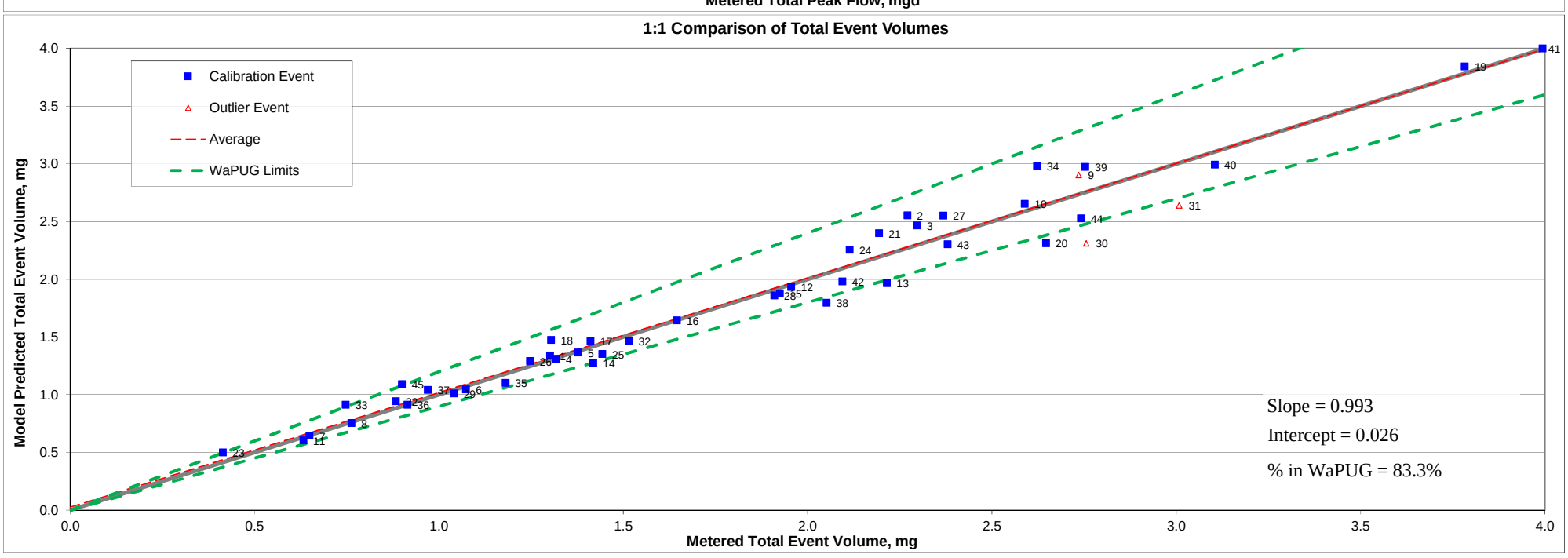




M1C: Hydraulic Model Validation Results

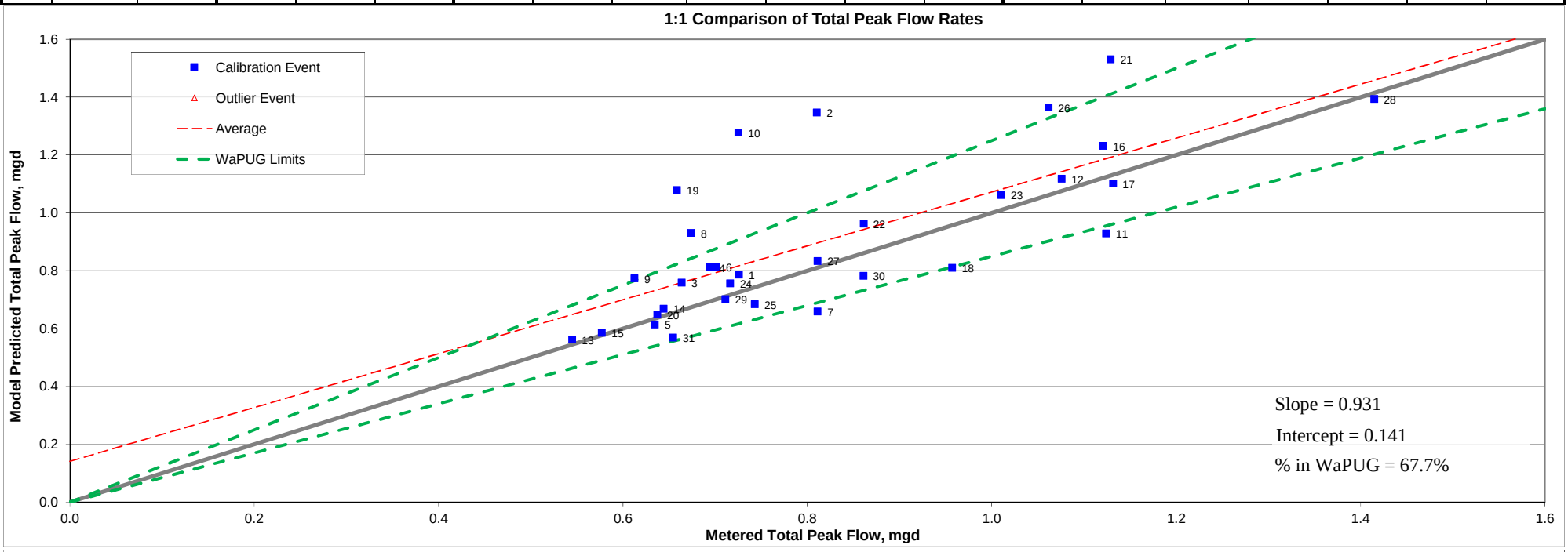
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	06/02/17	WWF	1.06	33.25	1.01	0.84	1.33	0.46	1.30	0.14	0.6%	0.00	0.84	1.58	0.70	1.34	0.17	0.7%	2.39
2	06/03/17	WWF	2.76	60.00	0.66	0.79	1.32	0.46	2.27	0.31	0.5%	0.00	0.78	1.54	0.56	2.55	0.60	1.0%	0.22
3	06/07/17	WWF	1.44	63.50	0.64	0.81	1.27	0.32	2.30	0.15	0.5%	0.00	0.81	1.60	0.67	2.47	0.33	1.0%	0.16
4	06/13/17	WWF	0.61	37.25	0.52	0.79	1.28	0.29	1.32	0.10	0.7%	0.00	0.78	1.33	0.36	1.31	0.10	0.8%	0.16
5	06/15/17	WWF	0.90	38.25	0.44	0.78	1.19	0.26	1.38	0.14	0.7%	0.00	0.77	1.18	0.35	1.36	0.14	0.7%	0.16
6	06/19/17	WWF	0.75	27.75	0.74	0.83	1.29	0.28	1.07	0.11	0.7%	0.00	0.82	1.36	0.44	1.04	0.10	0.6%	0.16
7	07/14/17	WWF	0.65	18.25	0.64	0.78	1.16	0.22	0.65	0.06	0.4%	0.00	0.75	1.28	0.38	0.64	0.07	0.5%	0.16
8	07/15/17	WWF	0.52	20.75	0.51	0.83	1.17	0.24	0.76	0.05	0.4%	0.00	0.79	1.09	0.27	0.75	0.07	0.6%	0.15
9	**07/18/17**	**WWF**	**2.61**	**65.50**	**1.88**	**0.86**	**1.58**	**0.63**	**2.74**	**0.40**	**0.7%**	**0.00**	**0.82**	**2.80**	**1.88**	**2.90**	**0.66**	**1.1%**	**1.62**
10	07/23/17	WWF	2.06	64.25	1.28	0.85	1.34	0.52	2.59	0.32	0.7%	0.00	0.81	1.80	1.31	2.65	0.50	1.1%	0.18
11	07/30/17	WWF	1.14	12.25	1.10	1.02	1.68	0.68	0.63	0.11	0.4%	0.00	0.97	1.69	0.74	0.60	0.11	0.4%	0.19
12	07/30/17	WWF	1.27	46.00	0.82	0.85	1.33	0.58	1.96	0.33	1.2%	0.00	0.81	1.34	0.77	1.93	0.39	1.4%	0.17
13	08/02/17	WWF	1.25	49.75	0.53	0.86	1.54	0.62	2.22	0.43	1.5%	0.00	0.82	1.54	0.63	1.97	0.26	0.9%	0.18
14	08/06/17	WWF	0.55	36.50	0.55	0.83	1.47	0.45	1.42	0.16	1.3%	0.00	0.79	1.24	0.29	1.27	0.06	0.5%	0.18
15	08/12/17	WWF	1.22	47.50	1.06	0.85	1.44	0.44	1.93	0.24	0.9%	0.00	0.83	1.79	0.78	1.88	0.24	0.9%	0.18
16	08/23/17	WWF	0.74	45.50	0.66	0.82	1.44	0.43	1.65	0.10	0.6%	0.00	0.81	1.34	0.37	1.64	0.10	0.6%	0.21
17	08/28/17	WWF	2.19	32.25	0.80	0.84	1.58	0.59	1.41	0.28	0.6%	0.00	0.85	1.93	0.94	1.46	0.33	0.7%	0.18
18	08/29/17	WWF	0.78	35.00	0.50	0.79	1.32	0.31	1.31	0.15	0.9%	0.00	0.80	1.63	0.67	1.47	0.30	1.8%	0.18
19	09/10/17	WWF	4.77	78.25	1.02	0.80	3.51	2.66	3.78	1.18	1.1%	0.00	0.80	2.60	1.91	3.84	1.24	1.2%	0.22
20	09/29/17	WWF	1.45	62.50	1.06	0.73	2.10	1.18	2.65	0.74	2.3%	0.00	0.77	1.86	0.91	2.31	0.31	1.0%	0.18
21	10/23/17	WWF	2.29	56.00	1.03	0.79	1.69	0.76	2.19	0.34	0.7%	0.00	0.80	2.24	1.27	2.40	0.53	1.0%	0.21
22	01/09/18	WWF	1.01	24.75	0.43	0.75	1.39	0.49	0.88	0.11	0.5%	0.00	0.78	1.04	0.52	0.94	0.14	0.6%	0.20
23	04/15/18	WWF	1.34	9.75	1.12	0.90	1.35	0.46	0.41	0.05	0.2%	0.00	0.90	1.70	0.80	0.50	0.13	0.4%	0.24
24	05/13/18	WWF	1.85	60.25	0.72	0.75	1.30	0.46	2.12	0.22	0.5%	0.00	0.76	1.65	0.80	2.25	0.36	0.9%	0.25
25	06/25/18	WWF	0.97	36.75	0.96	0.77	1.91	0.91	1.44	0.26	1.2%	0.00	0.78	1.59	0.62	1.35	0.16	0.8%	0.27
26	06/28/18	WWF	0.89	33.75	0.60	0.82	1.43	0.52	1.25	0.09	0.5%	0.00	0.83	1.30	0.35	1.29	0.13	0.6%	0.25
27	07/11/18	WWF	0.71	72.50	0.70	0.77	1.49	0.60	2.37	0.04	0.3%	0.00	0.81	1.30	0.41	2.55	0.12	0.7%	0.25
28	07/31/18	WWF	0.51	53.00	0.47	0.78	1.20	0.45	1.91	0.18	1.6%	0.00	0.81	1.03	0.26	1.86	0.06	0.6%	0.25
29	08/03/18	WWF	0.57	27.25	0.49	0.81	1.40	0.49	1.04	0.12	1.0%	0.00	0.84	1.12	0.29	1.01	0.06	0.5%	0.24
30	**08/11/18**	**WWF**	**1.17**	**60.50**	**0.49**	**0.84**	**2.21**	**1.17**	**2.76**	**0.65**	**2.5%**	**0.00**	**0.85**	**1.44**	**0.44**	**2.31**	**0.16**	**0.6%**	**0.25**
31	**08/15/18**	**WWF**	**0.78**	**74.75**	**0.38**	**0.82**	**1.76**	**0.76**	**3.01**	**0.46**	**2.7%**	**0.00**	**0.83**	**1.14**	**0.14**	**2.64**	**0.06**	**0.4%**	**1.37**
32	08/26/18	WWF	0.51	41.50	0.51	0.80	1.85	0.87	1.52	0.13	1.2%	0.00	0.80	1.27	0.31	1.47	0.08	0.7%	0.30
33	08/28/18	WWF	1.92	19.00	1.75	0.80	2.15	1.14	0.75	0.12	0.3%	0.00	0.80	2.39	1.38	0.91	0.28	0.7%	0.25
34	08/29/18	WWF	3.15	58.25	1.98	0.84	2.43	1.47	2.62	0.60	0.9%	0.00	0.84	3.16	2.19	2.98	0.95	1.4%	0.27
35	09/07/18	WWF	0.58	30.25	0.56	0.84	1.26	0.33	1.18	0.12	0.9%	0.00	0.82	1.28	0.33	1.10	0.07	0.6%	0.25
36	09/24/18	WWF	1.27	22.50	1.23	0.80	1.59	0.60	0.92	0.17	0.6%	0.00	0.78	1.80	0.85	0.91	0.18	0.6%	0.26
37	09/25/18	WWF	0.72	26.00	0.72	0.81	1.18	0.43	0.97	0.09	0.6%	0.00	0.80	1.51	0.54	1.04	0.18	1.1%	0.27
38	11/02/18	WWF	0.77	52.00	0.66	0.79	1.44	0.60	2.05	0.34	2.0%	0.00	0.77	1.26	0.40	1.80	0.13	0.7%	0.26
39	12/09/18	WWF	2.52	71.50	1.98	0.81	2.42	1.39	2.75	0.33	0.6%	0.00	0.79	2.84	1.84	2.97	0.63	1.1%	0.28
40	12/14/18	WWF	2.80	71.50	0.61	0.83	1.75	0.75	3.11	0.63	1.0%	0.00	0.78	1.76	0.84	2.99	0.66	1.1%	0.26
41	12/19/18	WWF	4.89	83.75	1.33	0.85	2.21	1.44	3.99	1.02	0.9%	0.00	0.80	2.97	2.15	4.00	1.21	1.1%	1.26
42	01/04/19	WWF	0.60	55.25	0.55	0.84	1.24	0.42	2.09	0.16	1.2%	0.00	0.80	1.35	0.45	1.98	0.14	1.1%	0.32
43	01/24/19	WWF	0.54	67.50	0.34	0.82	1.27	0.48	2.38	0.09	0.7%	0.0	0.79	1.10	0.21	2.30	0.07	0.6%	0.3
44	01/27/19	WWF	1.89	64.50	0.31	0.80	1.52	0.83	2.74	0.59	1.4%	0.0	0.78	1.51	0.60	2.53	0.42	1.0%	0.3
45	02/26/19	WWF	3.04	20.75	0.72	0.75	1.56	0.61	0.90	0.25	0.4%	0.0	0.75	1.94	1.03	1.09	0.44	0.6%	0.3

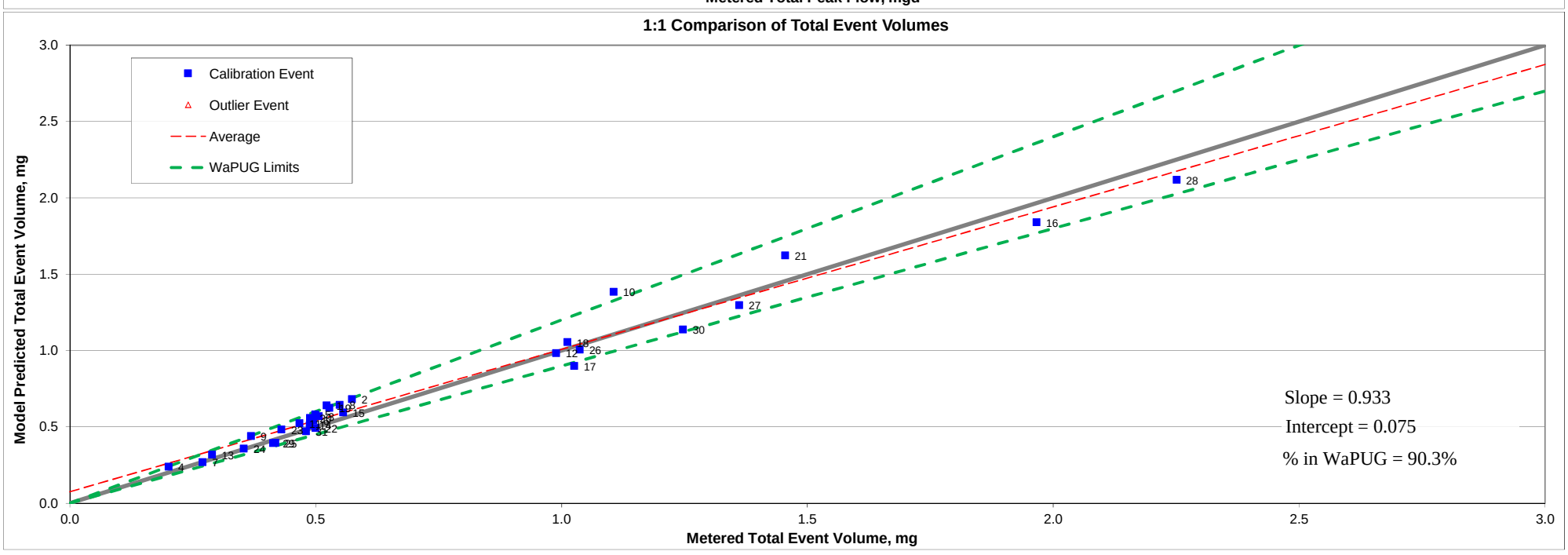




M1A: Hydraulic Model Validation Results

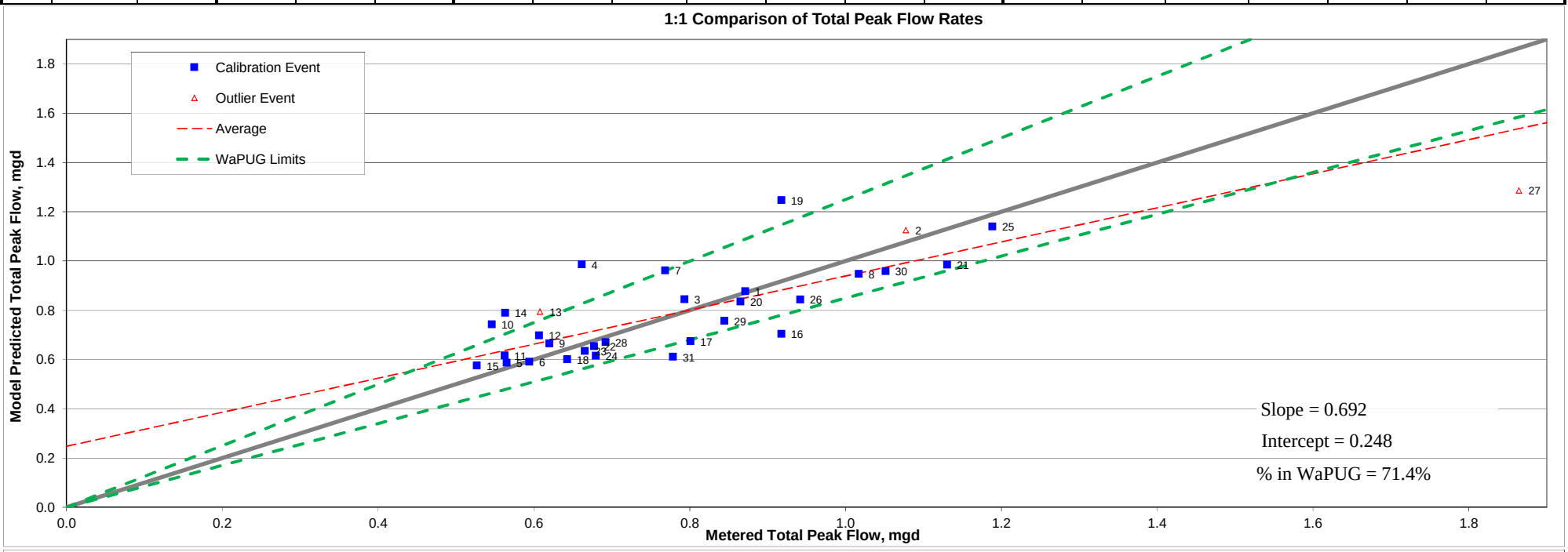
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	06/03/17	WWF	2.04	27.25	0.66	0.43	0.73	0.20	0.52	0.04	0.1%	0.00	0.42	0.79	0.26	0.64	0.16	0.3%	0.22
2	07/18/17	WWF	2.61	26.75	1.88	0.36	0.81	0.36	0.57	0.17	0.3%	0.00	0.42	1.35	0.84	0.68	0.22	0.4%	1.62
3	07/23/17	WWF	2.06	25.00	1.28	0.39	0.66	0.37	0.51	0.10	0.2%	0.00	0.40	0.76	0.54	0.57	0.15	0.3%	0.18
4	07/30/17	WWF	1.12	9.00	1.10	0.45	0.69	0.24	0.20	0.03	0.1%	0.00	0.49	0.81	0.32	0.24	0.05	0.2%	0.19
5	07/30/17	WWF	1.27	26.75	0.82	0.39	0.63	0.24	0.50	0.07	0.2%	0.00	0.41	0.61	0.29	0.58	0.13	0.4%	0.17
6	08/02/17	WWF	1.25	24.00	0.53	0.39	0.70	0.22	0.50	0.10	0.3%	0.00	0.45	0.81	0.29	0.54	0.10	0.3%	0.18
7	08/06/17	WWF	0.55	14.75	0.55	0.33	0.81	0.35	0.27	0.07	0.5%	0.00	0.40	0.66	0.13	0.27	0.02	0.2%	0.17
8	08/28/17	WWF	2.01	26.25	0.80	0.45	0.67	0.28	0.55	0.06	0.1%	0.00	0.45	0.93	0.43	0.64	0.15	0.3%	0.18
9	08/29/17	WWF	0.78	19.25	0.50	0.42	0.61	0.13	0.37	0.03	0.2%	0.00	0.43	0.77	0.28	0.44	0.10	0.5%	0.18
10	09/10/17	WWF	4.79	49.75	1.02	0.42	0.73	0.48	1.11	0.24	0.2%	0.00	0.45	1.28	0.86	1.38	0.44	0.4%	0.22
11	09/29/17	WWF	1.41	22.75	1.06	0.40	1.12	0.61	0.47	0.08	0.3%	0.00	0.45	0.93	0.41	0.52	0.09	0.3%	0.17
12	10/23/17	WWF	2.29	41.75	1.03	0.40	1.08	0.58	0.99	0.29	0.5%	0.00	0.45	1.12	0.59	0.98	0.21	0.4%	0.21
13	12/08/17	WWF	0.66	17.50	0.27	0.34	0.55	0.16	0.29	0.04	0.3%	0.00	0.40	0.56	0.09	0.32	0.03	0.2%	0.21
14	01/03/18	WWF	1.00	26.25	0.31	0.37	0.64	0.19	0.49	0.09	0.4%	0.00	0.41	0.67	0.17	0.51	0.06	0.3%	1.10
15	01/08/18	WWF	1.01	32.25	0.43	0.35	0.58	0.20	0.56	0.08	0.4%	0.00	0.39	0.59	0.22	0.59	0.07	0.3%	0.20
16	01/28/18	WWF	2.94	83.00	1.06	0.45	1.12	0.65	1.97	0.43	0.6%	0.00	0.44	1.23	0.72	1.84	0.33	0.5%	2.41
17	02/04/18	WWF	1.95	41.00	1.02	0.47	1.13	0.60	1.03	0.22	0.5%	0.00	0.43	1.10	0.58	0.90	0.17	0.4%	0.28
18	05/13/18	WWF	1.87	56.25	0.72	0.36	0.96	0.51	1.01	0.16	0.4%	0.00	0.38	0.81	0.35	1.05	0.15	0.3%	0.25
19	07/02/18	WWF	1.85	27.75	1.83	0.41	0.66	0.18	0.53	0.05	0.1%	0.00	0.42	1.08	0.59	0.62	0.14	0.3%	0.25
20	08/03/18	WWF	0.82	27.00	0.81	0.42	0.64	0.18	0.49	0.02	0.1%	0.00	0.45	0.65	0.21	0.56	0.05	0.3%	0.24
21	08/11/18	WWF	3.35	66.50	1.91	0.44	1.13	0.60	1.45	0.24	0.3%	0.00	0.46	1.53	0.97	1.62	0.35	0.4%	0.25
22	08/28/18	WWF	1.35	21.75	1.32	0.45	0.86	0.32	0.50	0.09	0.3%	0.00	0.44	0.96	0.44	0.49	0.09	0.3%	0.25
23	08/29/18	WWF	1.67	19.25	1.11	0.44	1.01	0.47	0.43	0.08	0.2%	0.00	0.42	1.06	0.53	0.48	0.14	0.4%	0.27
24	09/06/18	WWF	0.88	17.00	0.75	0.45	0.72	0.16	0.35	0.03	0.2%	0.00	0.44	0.76	0.22	0.36	0.05	0.2%	0.24
25	11/02/18	WWF	0.65	20.75	0.54	0.42	0.74	0.20	0.42	0.05	0.3%	0.00	0.41	0.68	0.17	0.39	0.04	0.3%	0.26
26	12/09/18	WWF	2.52	40.75	1.98	0.47	1.06	0.55	1.04	0.24	0.4%	0.00	0.46	1.36	0.82	1.01	0.23	0.4%	0.28
27	12/14/18	WWF	2.79	56.25	0.61	0.45	0.81	0.32	1.36	0.30	0.5%	0.00	0.44	0.83	0.36	1.30	0.26	0.4%	0.26
28	12/19/18	WWF	4.89	85.75	1.33	0.46	1.42	1.11	2.25	0.61	0.5%	0.00	0.44	1.39	1.00	2.12	0.55	0.5%	1.26
29	01/04/19	WWF	0.80	20.75	0.55	0.43	0.71	0.17	0.41	0.04	0.2%	0.00	0.40	0.70	0.20	0.39	0.04	0.2%	0.32
30	01/27/19	WWF	1.89	56.00	0.31	0.39	0.86	0.39	1.25	0.33	0.7%	0.00	0.41	0.78	0.28	1.14	0.17	0.4%	0.27
31	02/12/19	WWF	0.83	24.00	0.67	0.38	0.65	0.28	0.48	0.10	0.5%	0.00	0.43	0.57	0.15	0.47	0.04	0.2%	0.26

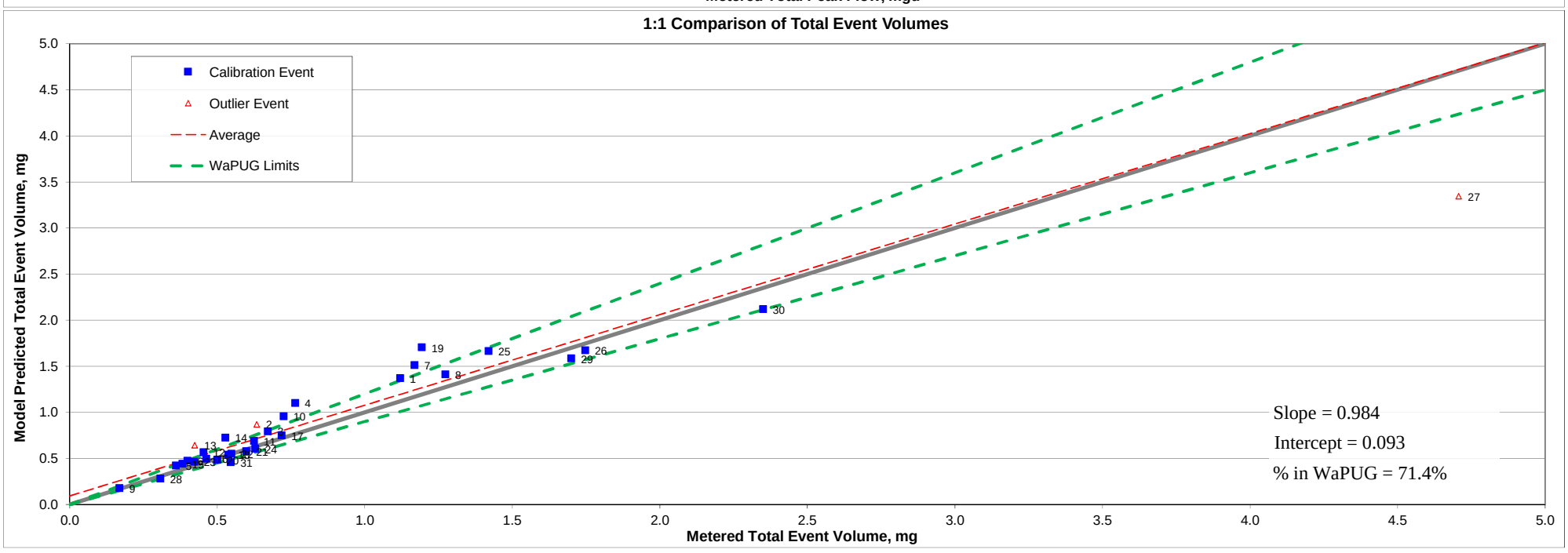




LS24: Hydraulic Model Validation Results

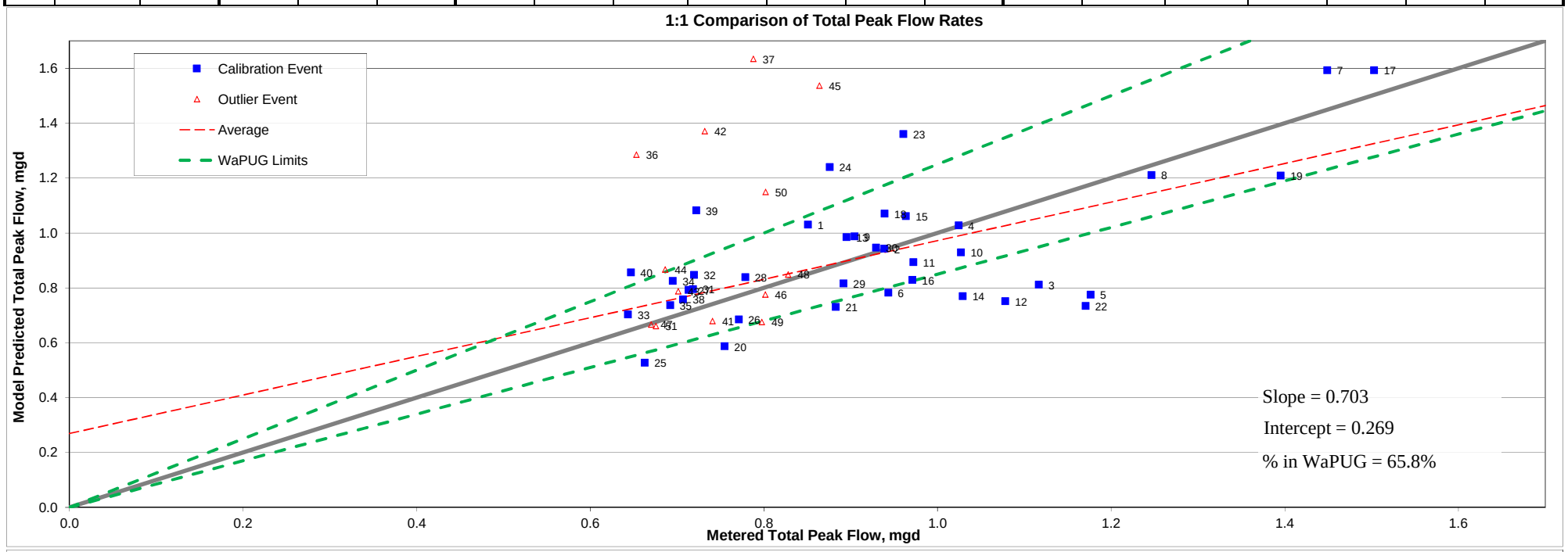
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	08/28/17	WWF	2.97	56.00	0.80	0.39	0.87	0.32	1.12	0.20	0.3%	0.00	0.39	0.88	0.36	1.37	0.47	0.7%	0.16
2	**09/10/17**	**WWF**	**4.79**	**28.25**	**1.02**	**0.42**	**1.08**	**0.67**	**0.63**	**0.14**	**0.1%**	**0.00**	**0.42**	**1.13**	**0.81**	**0.87**	**0.38**	**0.3%**	**0.16**
3	09/29/17	WWF	1.41	36.00	1.06	0.37	0.79	0.28	0.67	0.12	0.4%	0.00	0.39	0.84	0.30	0.79	0.20	0.6%	0.18
4	10/23/17	WWF	2.29	44.25	1.03	0.34	0.66	0.16	0.76	0.13	0.2%	0.00	0.38	0.99	0.46	1.10	0.40	0.8%	0.25
5	12/08/17	WWF	0.66	23.00	0.27	0.37	0.57	0.07	0.36	0.01	0.1%	0.00	0.39	0.59	0.08	0.42	0.04	0.3%	0.17
6	01/22/18	WWF	0.58	25.25	0.33	0.36	0.59	0.08	0.40	0.02	0.2%	0.00	0.42	0.59	0.06	0.47	0.04	0.3%	0.21
7	01/28/18	WWF	2.46	57.75	0.83	0.37	0.77	0.30	1.17	0.28	0.5%	0.00	0.42	0.96	0.45	1.51	0.50	0.9%	0.21
8	02/04/18	WWF	1.96	57.75	1.02	0.39	1.02	0.53	1.27	0.34	0.7%	0.00	0.43	0.95	0.44	1.41	0.39	0.9%	0.21
9	04/15/18	WWF	1.21	7.25	1.01	0.47	0.62	0.16	0.17	0.03	0.1%	0.00	0.45	0.67	0.23	0.18	0.04	0.1%	0.24
10	05/13/18	WWF	1.88	48.75	0.72	0.35	0.55	0.15	0.73	0.02	0.0%	0.00	0.35	0.74	0.32	0.95	0.24	0.6%	0.24
11	05/30/18	WWF	1.07	36.25	0.66	0.36	0.56	0.19	0.63	0.08	0.3%	0.00	0.36	0.62	0.20	0.69	0.14	0.5%	0.24
12	06/25/18	WWF	0.97	29.00	0.96	0.37	0.61	0.09	0.45	0.00	0.0%	0.00	0.38	0.70	0.20	0.56	0.11	0.5%	0.32
13	**07/02/18**	**WWF**	**1.85**	**27.50**	**1.83**	**0.35**	**0.61**	**0.27**	**0.42**	**0.02**	**0.1%**	**0.00**	**0.36**	**0.79**	**0.44**	**0.64**	**0.23**	**0.5%**	**0.25**
14	07/03/18	WWF	0.76	31.25	0.76	0.39	0.56	0.10	0.53	0.02	0.1%	0.00	0.38	0.79	0.31	0.72	0.23	1.3%	0.25
15	07/22/18	WWF	0.75	24.75	0.57	0.35	0.53	0.09	0.38	0.02	0.1%	0.00	0.35	0.58	0.16	0.44	0.07	0.4%	0.25
16	07/29/18	WWF	1.24	24.00	1.10	0.38	0.92	0.41	0.46	0.08	0.3%	0.00	0.37	0.70	0.25	0.49	0.12	0.4%	0.25
17	07/30/18	WWF	0.85	35.00	0.68	0.37	0.80	0.45	0.72	0.18	0.9%	0.00	0.38	0.67	0.24	0.75	0.20	1.0%	0.25
18	08/03/18	WWF	0.82	27.50	0.81	0.40	0.64	0.16	0.54	0.09	0.4%	0.00	0.40	0.60	0.16	0.54	0.08	0.4%	0.25
19	08/11/18	WWF	3.35	60.00	1.91	0.41	0.92	0.39	1.19	0.17	0.2%	0.00	0.40	1.25	0.76	1.70	0.70	0.9%	0.25
20	08/28/18	WWF	1.35	22.00	1.32	0.40	0.87	0.38	0.50	0.13	0.4%	0.00	0.38	0.84	0.31	0.48	0.13	0.4%	0.25
21	08/29/18	WWF	1.67	20.75	1.11	0.40	1.13	0.65	0.60	0.25	0.6%	0.00	0.38	0.99	0.47	0.58	0.25	0.6%	0.24
22	09/06/18	WWF	0.88	26.75	0.75	0.42	0.68	0.14	0.55	0.08	0.4%	0.00	0.41	0.65	0.16	0.55	0.09	0.5%	0.25
23	10/10/18	WWF	0.81	22.75	0.40	0.42	0.67	0.10	0.42	0.03	0.2%	0.00	0.39	0.63	0.16	0.46	0.09	0.5%	0.25
24	11/02/18	WWF	0.65	31.75	0.54	0.42	0.68	0.21	0.63	0.07	0.5%	0.00	0.39	0.61	0.13	0.60	0.09	0.6%	0.26
25	12/09/18	WWF	2.52	65.75	1.98	0.40	1.19	0.66	1.42	0.33	0.6%	0.00	0.41	1.14	0.60	1.66	0.55	0.9%	0.25
26	12/14/18	WWF	2.75	67.75	0.61	0.43	0.94	0.35	1.75	0.55	0.9%	0.00	0.39	0.84	0.35	1.67	0.57	0.9%	0.25
27	**12/19/18**	**WWF**	**4.89**	**138.75**	**1.33**	**0.46**	**1.86**	**1.36**	**4.71**	**2.04**	**1.8%**	**0.00**	**0.39**	**1.29**	**0.82**	**3.34**	**1.10**	**1.0%**	**0.29**
28	01/04/19	WWF	0.80	13.25	0.55	0.49	0.69	0.16	0.31	0.04	0.2%	0.00	0.43	0.67	0.15	0.28	0.04	0.2%	0.26
29	01/27/19	WWF	1.89	69.75	0.31	0.46	0.84	0.29	1.70	0.37	0.8%	0.00	0.41	0.76	0.26	1.58	0.38	0.9%	0.75
30	02/26/19	WWF	2.89	84.25	0.97	0.46	1.05	0.46	2.35	0.73	1.1%	0.00	0.42	0.96	0.42	2.12	0.64	1.0%	2.39
31	03/04/19	WWF	0.65	23.50	0.64	0.50	0.78	0.12	0.55	0.05	0.4%	0.00	0.41	0.61	0.11	0.46	0.05	0.3%	0.58

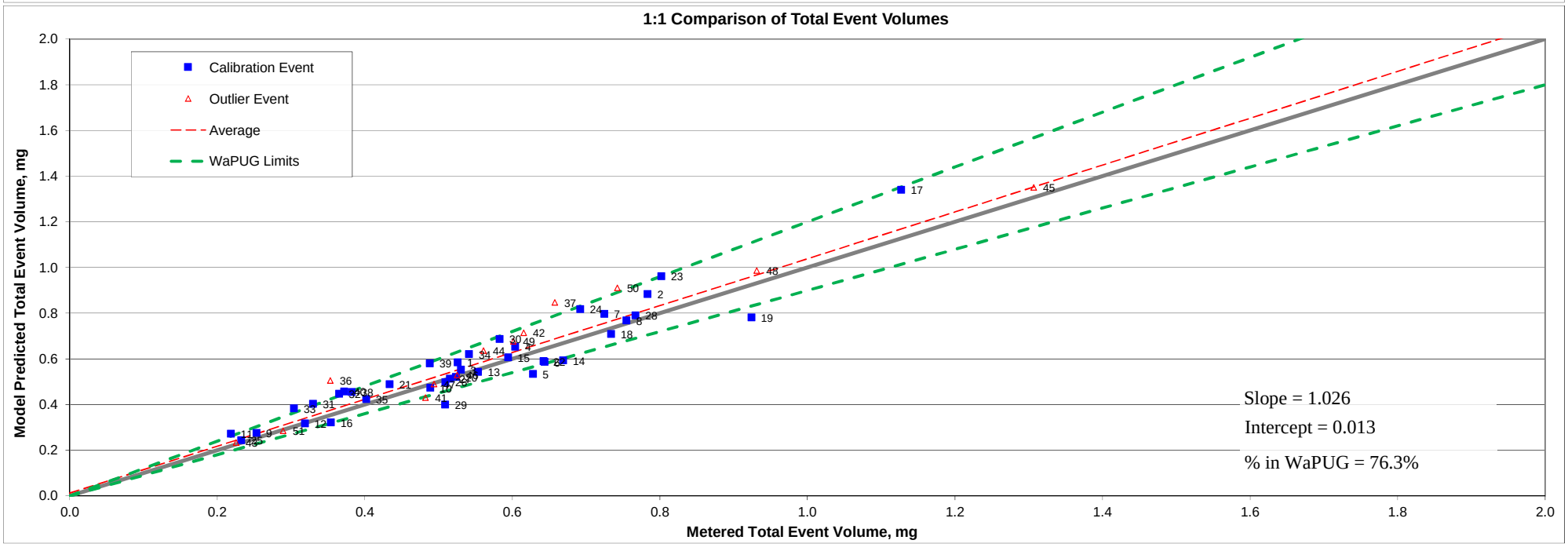




LS16: Hydraulic Model Validation Results

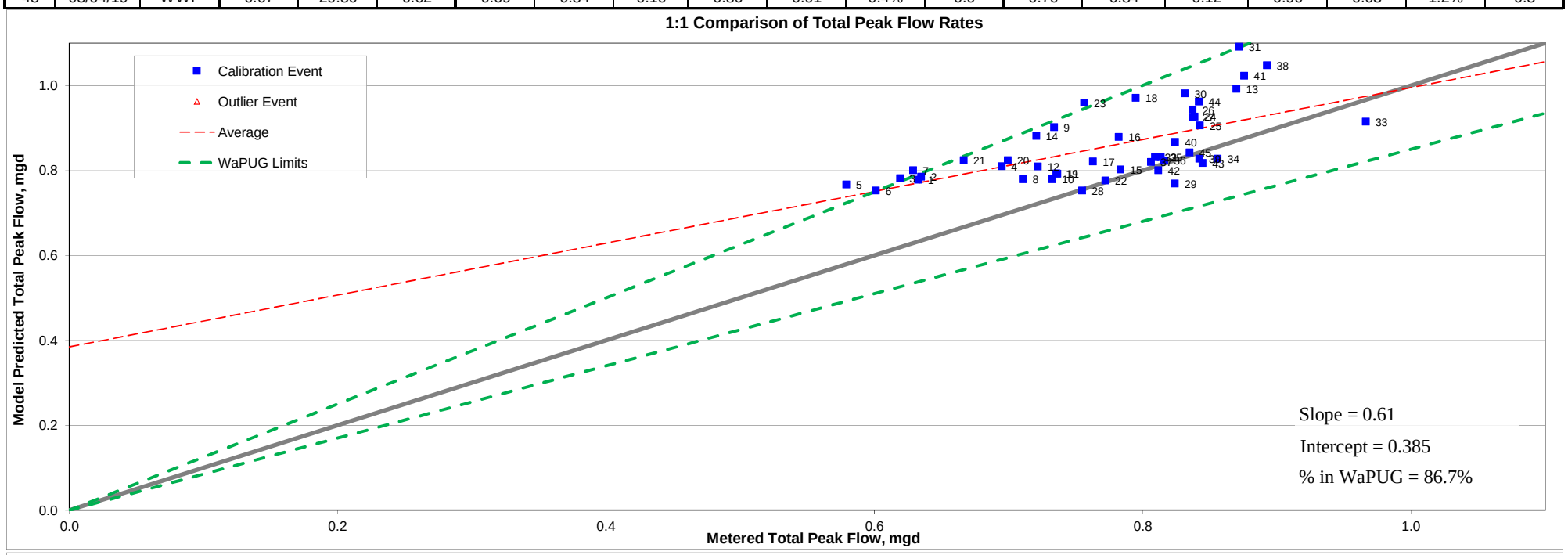
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	06/02/17	WWF	1.06	19.25	1.01	0.62	0.85	0.22	0.53	0.03	0.3%	0.00	0.62	1.03	0.41	0.58	0.09	0.8%	2.39
2	06/03/17	WWF	2.04	27.25	0.66	0.61	0.94	0.31	0.78	0.09	0.4%	0.00	0.62	0.94	0.29	0.88	0.18	0.8%	0.22
3	06/05/17	WWF	0.63	18.75	0.19	0.63	1.12	0.45	0.53	0.04	0.6%	0.00	0.64	0.81	0.14	0.55	0.05	0.8%	0.18
4	06/07/17	WWF	1.07	21.25	0.64	0.61	1.02	0.41	0.60	0.06	0.5%	0.00	0.63	1.03	0.35	0.65	0.09	0.8%	0.15
5	06/15/17	WWF	0.90	18.25	0.44	0.63	1.18	0.48	0.63	0.15	1.6%	0.00	0.62	0.77	0.20	0.53	0.06	0.7%	0.16
6	07/14/17	WWF	0.65	23.50	0.64	0.48	0.94	0.45	0.64	0.18	2.6%	0.00	0.55	0.78	0.24	0.59	0.05	0.8%	0.16
7	07/18/17	WWF	2.61	24.25	1.88	0.49	1.45	0.95	0.73	0.23	0.8%	0.00	0.55	1.59	1.02	0.80	0.24	0.9%	1.62
8	07/23/17	WWF	2.06	25.50	1.28	0.49	1.25	0.74	0.76	0.24	1.1%	0.00	0.54	1.21	0.71	0.77	0.19	0.9%	0.18
9	07/30/17	WWF	1.12	8.75	1.10	0.41	0.90	0.48	0.25	0.10	0.9%	0.00	0.56	0.99	0.44	0.27	0.07	0.6%	0.19
10	07/30/17	WWF	1.15	15.50	0.82	0.40	1.03	0.58	0.49	0.23	1.9%	0.00	0.55	0.93	0.45	0.47	0.12	1.0%	0.17
11	08/02/17	WWF	1.25	8.75	0.53	0.45	0.97	0.55	0.22	0.06	0.4%	0.00	0.56	0.89	0.35	0.27	0.07	0.5%	0.18
12	08/06/17	WWF	0.55	13.00	0.55	0.41	1.08	0.63	0.32	0.10	1.7%	0.00	0.52	0.75	0.20	0.32	0.04	0.7%	0.17
13	08/12/17	WWF	1.22	19.25	1.06	0.47	0.90	0.43	0.55	0.18	1.4%	0.00	0.55	0.98	0.44	0.54	0.11	0.8%	0.17
14	08/23/17	WWF	0.74	24.00	0.66	0.52	1.03	0.46	0.67	0.15	1.9%	0.00	0.54	0.77	0.24	0.59	0.06	0.7%	0.21
15	08/28/17	WWF	2.04	20.25	0.80	0.54	0.96	0.44	0.59	0.14	0.7%	0.00	0.54	1.06	0.54	0.61	0.16	0.7%	0.18
16	08/29/17	WWF	0.78	12.25	0.50	0.51	0.97	0.42	0.35	0.09	1.1%	0.00	0.51	0.83	0.30	0.32	0.06	0.8%	0.18
17	09/10/17	WWF	4.78	37.75	1.02	0.47	1.50	0.99	1.13	0.39	0.8%	0.00	0.57	1.59	1.08	1.34	0.46	0.9%	0.22
18	09/29/17	WWF	1.41	25.25	1.06	0.54	0.94	0.41	0.73	0.17	1.1%	0.00	0.56	1.07	0.53	0.71	0.13	0.9%	0.17
19	10/23/17	WWF	2.29	26.75	1.03	0.51	1.40	0.88	0.92	0.36	1.5%	0.00	0.51	1.21	0.70	0.78	0.21	0.9%	0.21
20	12/08/17	WWF	0.66	24.25	0.27	0.43	0.76	0.36	0.52	0.09	1.3%	0.00	0.46	0.59	0.15	0.52	0.05	0.8%	0.21
21	01/03/18	WWF	1.00	19.75	0.31	0.34	0.88	0.50	0.43	0.15	1.5%	0.00	0.50	0.73	0.22	0.49	0.08	0.8%	1.10
22	01/09/18	WWF	1.01	24.50	0.43	0.47	1.17	0.64	0.64	0.16	1.6%	0.00	0.49	0.73	0.30	0.59	0.09	0.8%	0.20
23	01/28/18	WWF	2.91	33.50	1.06	0.47	0.96	0.50	0.80	0.15	0.5%	0.00	0.50	1.36	0.87	0.96	0.27	0.9%	2.39
24	02/04/18	WWF	1.95	28.00	1.00	0.49	0.88	0.37	0.69	0.12	0.6%	0.00	0.55	1.24	0.70	0.82	0.18	0.9%	0.28
25	04/10/18	WWF	0.54	12.25	0.21	0.40	0.66	0.24	0.23	0.03	0.5%	0.00	0.42	0.53	0.12	0.24	0.03	0.6%	0.24
26	04/10/18	WWF	0.90	24.75	0.75	0.37	0.77	0.34	0.51	0.13	1.4%	0.00	0.39	0.68	0.37	0.50	0.09	1.0%	0.24
27	04/15/18	WWF	1.21	24.75	1.01	0.37	0.71	0.37	0.52	0.14	1.1%	0.00	0.39	0.79	0.42	0.51	0.11	0.9%	0.28
28	05/13/18	WWF	1.88	38.25	0.72	0.31	0.78	0.53	0.77	0.27	1.4%	0.00	0.40	0.84	0.45	0.79	0.16	0.8%	0.25
29	05/30/18	WWF	1.07	18.00	0.66	0.54	0.89	0.32	0.51	0.11	1.0%	0.00	0.42	0.82	0.37	0.40	0.09	0.8%	0.24
30	06/25/18	WWF	0.86	23.50	0.86	0.46	0.93	0.50	0.58	0.13	1.5%	0.00	0.63	0.95	0.33	0.69	0.07	0.8%	0.27
31	06/28/18	WWF	0.55	14.75	0.48	0.44	0.72	0.33	0.33	0.06	1.1%	0.00	0.60	0.79	0.17	0.40	0.04	0.6%	0.25
32	07/11/18	WWF	0.71	17.25	0.70	0.48	0.72	0.19	0.37	0.02	0.3%	0.00	0.55	0.85	0.26	0.45	0.06	0.7%	0.24
33	07/22/18	WWF	0.60	15.25	0.30	0.48	0.64	0.10	0.30	0.00	0.0%	0.00	0.55	0.70	0.18	0.38	0.04	0.6%	0.23
34	08/11/18	WWF	0.83	24.50	0.49	0.50	0.70	0.16	0.54	0.03	0.3%	0.00	0.54	0.82	0.27	0.62	0.07	0.8%	0.25
35	08/26/18	WWF	0.51	17.50	0.51	0.50	0.69	0.17	0.40	0.04	0.7%	0.00	0.53	0.74	0.19	0.42	0.04	0.8%	0.30
36	**08/28/18**	**WWF**	**1.92**	**16.00**	**1.75**	**0.51**	**0.65**	**0.13**	**0.35**	**0.01**	**0.1%**	**0.00**	**0.52**	**1.29**	**0.76**	**0.51**	**0.16**	**0.8%**	**0.25**
37	**08/29/18**	**WWF**	**3.06**	**24.75**	**1.98**	**0.55**	**0.79**	**0.24**	**0.66**	**0.09**	**0.3%**	**0.00**	**0.54**	**1.63**	**1.11**	**0.85**	**0.29**	**0.9%**	**0.27**
38	09/07/18	WWF	0.58	17.25	0.56	0.51	0.71	0.28	0.38	0.01	0.2%	0.00	0.57	0.76	0.21	0.45	0.04	0.7%	0.25
39	09/24/18	WWF	1.27	19.75	1.23	0.53	0.72	0.19	0.49	0.05	0.4%	0.00	0.57	1.08	0.50	0.58	0.11	0.9%	0.24
40	09/25/18	WWF	0.72	16.50	0.72	0.54	0.65	0.11	0.37	0.00	0.0%	0.00	0.58	0.86	0.28	0.46	0.06	0.8%	0.27
41	**11/02/18**	**WWF**	**0.77**	**21.50**	**0.66**	**0.44**	**0.74**	**0.34**	**0.48**	**0.09**	**1.1%**	**0.00**	**0.41**	**0.68**	**0.26**	**0.43**	**0.06**	**0.8%**	**0.26**
42	**12/09/18**	**WWF**	**2.26**	**26.25**	**2.02**	**0.45**	**0.73**	**0.26**	**0.62**	**0.13**	**0.5%**	**0.00**	**0.46**	**1.37**	**0.91**	**0.71**	**0.21**	**0.9%**	**0.28**
43	**12/14/18**	**WWF**	**0.78**	**9.00**	**0.40**	**0.54**	**0.70**	**0.15**	**0.23**	**0.02**	**0.3%**	**0.0**	**0.51**	**0.79**	**0.27**	**0.23**	**0.05**	**0.6%**	**0.2**
44	**12/14/18**	**WWF**	**1.92**	**23.25**	**0.55**	**0.50**	**0.69**	**0.21**	**0.56**	**0.08**	**0.4%**	**0.0**	**0.46**	**0.87**	**0.43**	**0.64**	**0.19**	**1.0%**	**0.3**
45	**12/19/18**	**WWF**	**4.49**	**48.25**	**1.22**	**0.54**	**0.86**	**0.34**	**1.31**	**0.22**	**0.5%**	**0.0**	**0.47**	**1.54**	**1.07**	**1.35**	**0.42**	**0.9%**	**1.3**
46	**01/04/19**	**WWF**	**0.84**	**22.50**	**0.60**	**0.48**	**0.80**	**0.28**	**0.53**	**0.07**	**0.8%**	**0.0**	**0.49**	**0.78**	**0.29**	**0.53**	**0.07**	**0.8%**	**0.3**
47	**01/24/19**	**WWF**	**0.54**	**21.50**	**0.39**	**0.51**	**0.67**	**0.15**	**0.49**	**0.04**	**0.6%**	**0.0**	**0.50**	**0.67**	**0.15**	**0.49**	**0.04**	**0.8%**	**0.3**
48	**01/27/19**	**WWF**	**1.99**	**39.00**	**0.27**	**0.50**	**0.83**	**0.32**	**0.93**	**0.11**	**0.5%**	**0.0**	**0.50**	**0.85**	**0.35**	**0.99**	**0.18**	**0.9%**	**0.3**
49	**02/12/19**	**WWF**	**0.71**	**27.75**	**0.53**	**0.50**	**0.80**	**0.30**	**0.60**	**0.02**	**0.3%**	**0.0**	**0.54**	**0.68**	**0.19**	**0.68**	**0.06**	**0.8%**	**0.3**
50	**02/26/19**	**WWF**	**3.03**	**27.50**	**0.72**	**0.52**	**0.80**	**0.28**	**0.74**	**0.15**	**0.5%**	**0.0**	**0.55**	**1.15**	**0.60**	**0.91**	**0.29**	**0.9%**	**0.4**
51	**03/04/19**	**WWF**	**0.62**	**12.25**	**0.62**	**0.52**	**0.68**	**0.15**	**0.29**	**0.02**	**0.4%**	**0.0**	**0.48**	**0.66**	**0.23**	**0.28**	**0.04**	**0.7%**	**0.3**

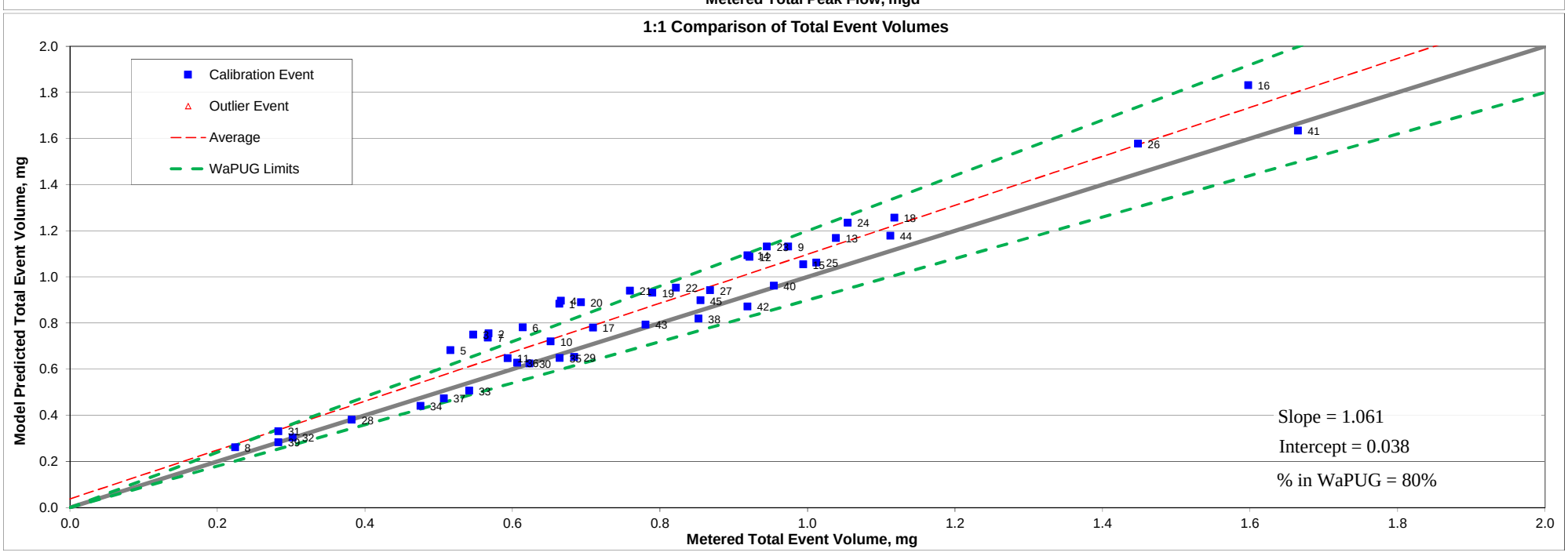




LS14: Hydraulic Model Validation Results

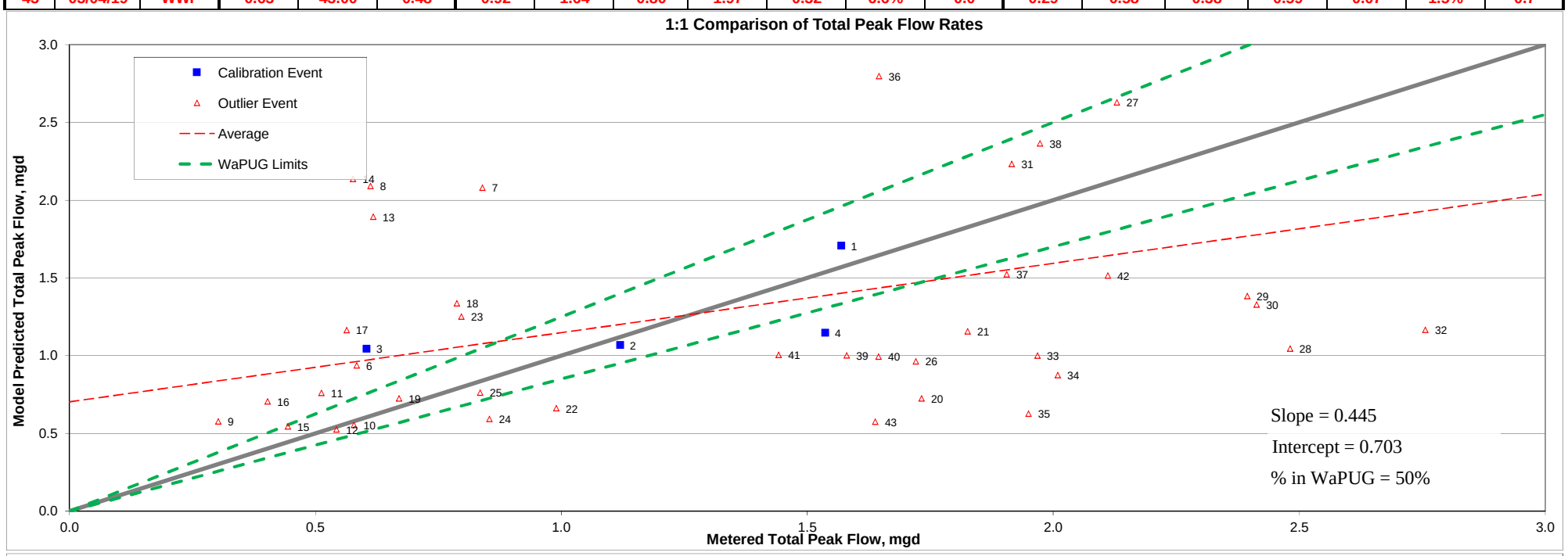
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	06/02/17	WWF	1.06	33.00	1.01	0.43	0.63	0.18	0.66	0.08	1.7%	0.00	0.63	0.78	0.16	0.88	0.02	0.4%	2.39
2	06/03/17	WWF	2.04	28.25	0.66	0.40	0.64	0.16	0.57	0.09	1.1%	0.00	0.61	0.79	0.15	0.75	0.03	0.4%	0.22
3	06/05/17	WWF	0.70	28.75	0.19	0.42	0.62	0.14	0.55	0.04	1.5%	0.00	0.60	0.78	0.24	0.75	0.03	1.2%	0.18
4	06/07/17	WWF	1.44	33.25	0.64	0.42	0.70	0.21	0.67	0.08	1.3%	0.00	0.60	0.81	0.19	0.90	0.06	1.0%	0.16
5	06/13/17	WWF	0.61	26.00	0.52	0.45	0.58	0.11	0.52	0.03	1.2%	0.00	0.62	0.77	0.16	0.68	0.01	0.5%	0.16
6	06/15/17	WWF	0.90	29.00	0.44	0.46	0.60	0.11	0.61	0.05	1.4%	0.00	0.61	0.75	0.25	0.78	0.05	1.3%	0.16
7	06/19/17	WWF	0.75	28.00	0.74	0.44	0.63	0.17	0.57	0.06	1.8%	0.00	0.61	0.80	0.21	0.74	0.03	0.8%	0.16
8	07/14/17	WWF	0.65	8.75	0.64	0.51	0.71	0.20	0.22	0.04	1.4%	0.00	0.65	0.78	0.18	0.26	0.02	0.8%	0.16
9	07/18/17	WWF	1.59	39.75	1.48	0.52	0.73	0.19	0.97	0.12	1.7%	0.00	0.64	0.90	0.20	1.13	0.07	1.1%	1.62
10	07/22/17	WWF	1.08	26.50	0.65	0.51	0.73	0.15	0.65	0.09	1.9%	0.00	0.63	0.78	0.19	0.72	0.02	0.5%	0.19
11	07/30/17	WWF	1.05	23.00	0.42	0.58	0.74	0.16	0.59	0.04	0.9%	0.00	0.62	0.79	0.25	0.65	0.05	1.1%	0.19
12	08/02/17	WWF	0.64	37.50	0.36	0.54	0.72	0.17	0.92	0.08	2.9%	0.00	0.69	0.81	0.15	1.09	0.01	0.3%	0.18
13	08/12/17	WWF	2.09	38.50	1.52	0.59	0.87	0.21	1.04	0.10	1.1%	0.00	0.70	0.99	0.27	1.17	0.05	0.6%	0.17
14	08/23/17	WWF	1.24	38.00	1.19	0.54	0.72	0.15	0.92	0.07	1.2%	0.00	0.67	0.88	0.19	1.09	0.03	0.6%	0.21
15	08/26/17	WWF	1.09	37.25	0.58	0.53	0.78	0.20	0.99	0.18	3.8%	0.00	0.65	0.80	0.17	1.05	0.05	1.0%	0.18
16	08/28/17	WWF	2.59	60.75	1.08	0.54	0.78	0.19	1.60	0.22	2.0%	0.00	0.68	0.88	0.19	1.83	0.12	1.1%	0.18
17	09/01/17	WWF	0.85	26.25	0.33	0.57	0.76	0.15	0.71	0.08	2.3%	0.00	0.68	0.82	0.11	0.78	0.04	1.1%	0.17
18	10/23/17	WWF	2.29	40.75	1.03	0.56	0.80	0.19	1.12	0.17	1.8%	0.00	0.69	0.97	0.29	1.26	0.08	0.8%	0.21
19	12/08/17	WWF	0.66	34.00	0.27	0.49	0.74	0.18	0.79	0.09	3.3%	0.00	0.64	0.79	0.12	0.93	0.03	0.9%	0.21
20	01/03/18	WWF	0.96	31.50	0.24	0.53	0.70	0.11	0.69	0.00	0.1%	0.00	0.66	0.82	0.14	0.89	0.02	0.5%	1.10
21	01/08/18	WWF	0.88	33.75	0.33	0.53	0.67	0.09	0.76	0.01	0.3%	0.00	0.64	0.82	0.17	0.94	0.05	1.2%	0.20
22	01/22/18	WWF	0.61	35.00	0.31	0.51	0.77	0.19	0.82	0.07	2.9%	0.00	0.65	0.78	0.21	0.95	0.01	0.3%	0.27
23	01/28/18	WWF	2.64	38.00	0.91	0.54	0.76	0.18	0.95	0.09	0.8%	0.00	0.66	0.96	0.21	1.13	0.08	0.7%	2.41
24	02/04/18	WWF	1.59	40.25	0.78	0.57	0.84	0.25	1.05	0.09	1.4%	0.00	0.70	0.93	0.22	1.24	0.06	0.9%	0.28
25	04/10/18	WWF	0.66	32.50	0.55	0.72	0.84	0.16	1.01	0.04	1.4%	0.00	0.77	0.91	0.14	1.06	0.02	0.8%	0.24
26	05/14/18	WWF	1.39	46.00	0.54	0.74	0.84	0.11	1.45	0.02	0.4%	0.00	0.80	0.94	0.16	1.58	0.05	0.8%	0.25
27	05/21/18	WWF	0.64	27.50	0.28	0.76	0.84	0.14	0.87	0.00	0.0%	0.00	0.81	0.92	0.11	0.94	0.02	0.6%	0.24
28	07/11/18	WWF	0.71	13.25	0.70	0.67	0.76	0.10	0.38	0.01	0.3%	0.00	0.68	0.75	0.09	0.38	0.01	0.2%	0.24
29	07/22/18	WWF	0.60	24.25	0.30	0.66	0.82	0.11	0.68	0.02	0.7%	0.00	0.62	0.77	0.21	0.65	0.02	0.8%	0.24
30	08/28/18	WWF	1.92	20.25	1.75	0.72	0.83	0.13	0.62	0.01	0.2%	0.00	0.67	0.98	0.23	0.62	0.06	0.7%	0.25
31	08/29/18	WWF	3.06	9.00	1.98	0.75	0.87	0.11	0.28	0.00	0.0%	0.00	0.70	1.09	0.38	0.33	0.07	0.5%	0.27
32	09/07/18	WWF	0.57	9.75	0.56	0.73	0.81	0.07	0.30	0.01	0.3%	0.00	0.69	0.83	0.20	0.30	0.02	0.9%	0.25
33	09/24/18	WWF	1.27	17.00	1.23	0.69	0.97	0.24	0.54	0.05	1.0%	0.00	0.66	0.91	0.20	0.51	0.04	0.7%	0.25
34	09/25/18	WWF	0.72	15.25	0.72	0.68	0.86	0.23	0.48	0.04	1.4%	0.00	0.67	0.83	0.12	0.44	0.01	0.5%	0.27
35	10/10/18	WWF	0.62	21.75	0.26	0.71	0.81	0.19	0.66	0.02	0.8%	0.00	0.71	0.83	0.14	0.65	0.01	0.3%	0.25
36	10/26/18	WWF	0.55	20.25	0.42	0.70	0.82	0.15	0.61	0.01	0.5%	0.00	0.70	0.82	0.15	0.63	0.03	1.4%	0.26
37	11/02/18	WWF	0.77	16.50	0.66	0.67	0.81	0.20	0.51	0.05	1.5%	0.00	0.66	0.82	0.13	0.47	0.02	0.6%	0.25
38	12/09/18	WWF	2.24	26.75	2.02	0.70	0.89	0.18	0.85	0.08	0.8%	0.00	0.66	1.05	0.32	0.82	0.09	0.9%	0.28
39	12/14/18	WWF	0.78	9.00	0.40	0.73	0.84	0.14	0.28	0.01	0.3%	0.00	0.71	0.83	0.13	0.28	0.01	0.4%	0.22
40	12/14/18	WWF	1.92	31.50	0.55	0.68	0.82	0.23	0.95	0.06	0.7%	0.00	0.68	0.87	0.23	0.96	0.07	0.9%	0.26
41	12/19/18	WWF	4.49	53.50	1.22	0.70	0.88	0.24	1.67	0.11	0.6%	0.00	0.66	1.02	0.33	1.63	0.16	0.8%	1.26
42	01/04/19	WWF	0.84	30.75	0.60	0.67	0.81	0.20	0.92	0.06	1.8%	0.00	0.64	0.80	0.25	0.87	0.06	1.6%	0.32
43	02/12/19	WWF	0.71	26.75	0.53	0.67	0.84	0.13	0.78	0.04	1.3%	0.0	0.70	0.82	0.14	0.79	0.02	0.5%	0.3
44	02/26/19	WWF	3.14	35.50	0.72	0.70	0.84	0.12	1.11	0.07	0.6%	0.0	0.71	0.96	0.30	1.18	0.13	1.0%	0.6
45	03/04/19	WWF	0.67	29.50	0.62	0.69	0.84	0.10	0.86	0.01	0.4%	0.0	0.70	0.84	0.12	0.90	0.03	1.2%	0.3

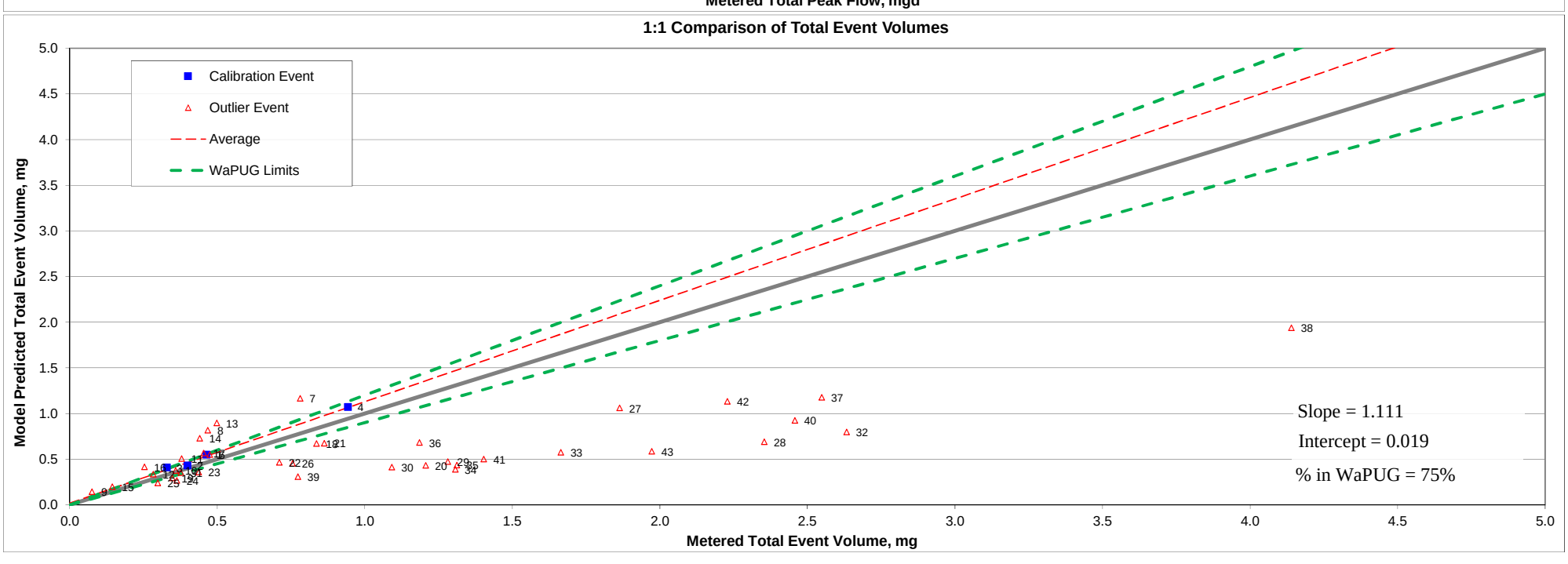




LS20: Hydraulic Model Validation Results

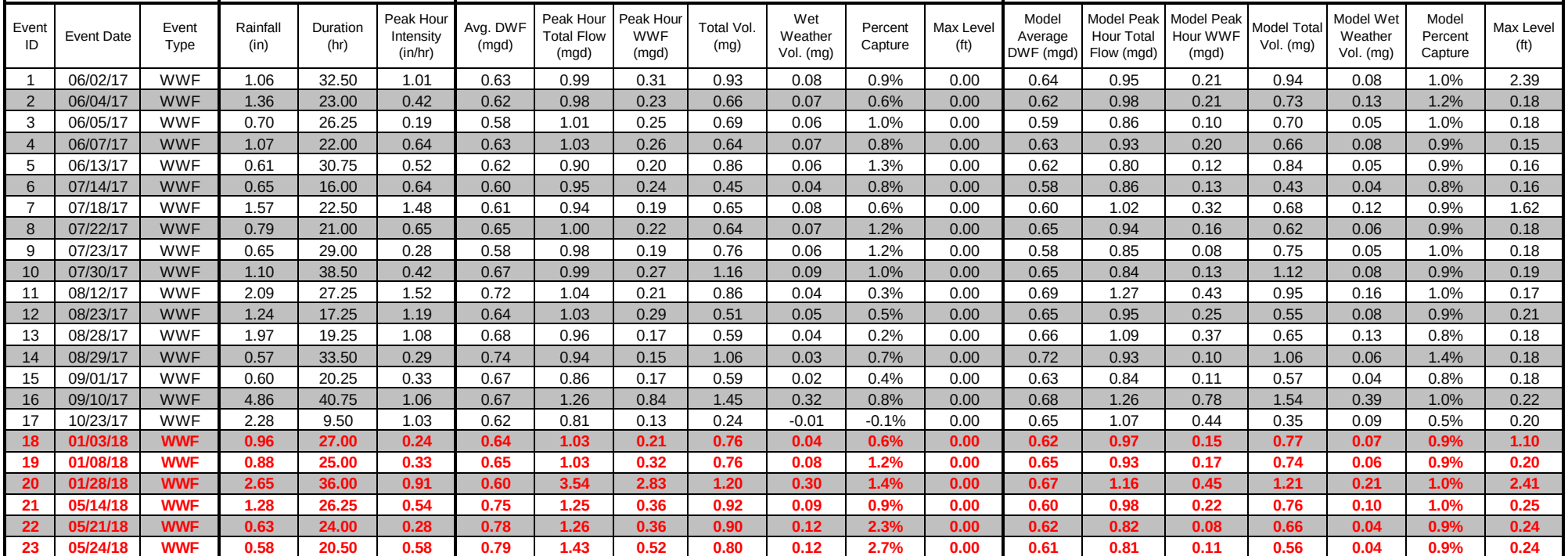
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	08/12/17	WWF	1.34	25.75	1.20	0.20	1.57	1.32	0.46	0.25	2.4%	0.00	0.28	1.71	1.38	0.55	0.25	2.4%	0.18
2	08/23/17	WWF	0.76	26.00	0.56	0.24	1.12	0.85	0.40	0.14	2.3%	0.00	0.28	1.07	0.75	0.43	0.12	2.0%	0.16
3	08/27/17	WWF	0.69	24.75	0.58	0.25	0.60	0.35	0.33	0.07	1.4%	0.00	0.28	1.04	0.74	0.41	0.12	2.3%	0.16
4	08/28/17	WWF	2.40	46.00	0.51	0.26	1.54	1.26	0.94	0.45	2.4%	0.00	0.28	1.15	0.84	1.07	0.52	2.8%	0.16
6	09/01/17	WWF	0.95	32.75	0.49	0.25	0.58	0.31	0.47	0.14	1.8%	0.00	0.27	0.94	0.67	0.55	0.18	2.4%	0.15
7	09/10/17	WWF	3.04	45.25	0.69	0.25	0.84	0.66	0.78	0.31	1.3%	0.00	0.28	2.08	1.81	1.17	0.64	2.7%	0.16
8	10/23/17	WWF	2.29	29.50	1.03	0.22	0.61	0.38	0.47	0.20	1.1%	0.00	0.29	2.09	1.79	0.82	0.46	2.6%	0.17
9	12/08/17	WWF	0.65	8.25	0.27	0.15	0.30	0.15	0.08	0.02	0.4%	0.00	0.26	0.58	0.32	0.14	0.06	1.1%	0.18
10	01/03/18	WWF	0.57	26.00	0.15	0.23	0.58	0.31	0.36	0.11	2.4%	0.00	0.28	0.55	0.23	0.38	0.08	1.7%	0.97
11	01/09/18	WWF	0.81	32.50	0.34	0.19	0.51	0.28	0.38	0.12	1.9%	0.00	0.27	0.76	0.58	0.51	0.14	2.2%	0.20
12	01/22/18	WWF	0.50	23.50	0.31	0.19	0.54	0.33	0.28	0.10	2.6%	0.00	0.28	0.53	0.21	0.33	0.06	1.5%	0.24
13	01/28/18	WWF	2.41	33.25	0.78	0.20	0.62	0.39	0.50	0.22	1.2%	0.00	0.29	1.89	1.60	0.90	0.50	2.7%	0.21
14	02/04/18	WWF	1.95	29.75	1.15	0.27	0.58	0.30	0.44	0.10	0.7%	0.00	0.28	2.14	1.83	0.73	0.38	2.5%	0.22
15	04/10/18	WWF	0.53	11.00	0.25	0.26	0.44	0.17	0.14	0.03	0.6%	0.00	0.33	0.54	0.24	0.20	0.05	1.2%	0.51
16	04/10/18	WWF	0.76	21.75	0.38	0.23	0.40	0.17	0.25	0.05	0.8%	0.00	0.28	0.71	0.53	0.42	0.16	2.7%	0.44
17	04/15/18	WWF	1.00	32.00	0.80	0.26	0.56	0.27	0.45	0.11	1.4%	0.00	0.29	1.16	0.88	0.57	0.19	2.4%	0.24
18	05/21/18	WWF	1.22	37.00	0.84	0.36	0.79	0.41	0.84	0.28	2.9%	0.00	0.29	1.34	1.01	0.67	0.23	2.4%	0.24
19	05/30/18	WWF	0.69	15.50	0.25	0.48	0.67	0.20	0.35	0.04	0.7%	0.00	0.32	0.72	0.38	0.30	0.09	1.6%	0.22
20	06/25/18	WWF	0.50	29.75	0.48	0.59	1.73	1.20	1.21	0.47	12.2%	0.00	0.29	0.72	0.39	0.43	0.07	1.9%	0.25
21	06/28/18	WWF	1.07	41.75	0.79	0.36	1.83	1.45	0.86	0.24	2.8%	0.00	0.28	1.16	0.94	0.67	0.18	2.2%	0.25
22	06/30/18	WWF	0.55	30.50	0.40	0.38	0.99	0.53	0.71	0.22	5.2%	0.00	0.30	0.66	0.34	0.47	0.09	2.1%	0.25
23	07/02/18	WWF	0.92	19.25	0.90	0.40	0.80	0.37	0.44	0.12	1.7%	0.00	0.27	1.25	0.94	0.36	0.14	2.0%	0.24
24	07/22/18	WWF	0.54	18.00	0.32	0.35	0.85	0.45	0.36	0.10	2.3%	0.00	0.28	0.59	0.40	0.27	0.06	1.4%	0.23
25	07/31/18	WWF	0.50	13.50	0.44	0.44	0.84	0.38	0.30	0.05	1.3%	0.00	0.33	0.76	0.40	0.24	0.06	1.4%	0.25
26	08/03/18	WWF	0.77	27.00	0.61	0.41	1.72	1.27	0.76	0.29	4.9%	0.00	0.29	0.96	0.68	0.45	0.13	2.2%	0.24
27	08/11/18	WWF	2.81	35.75	1.57	0.47	2.13	1.67	1.86	1.16	5.3%	0.00	0.29	2.63	2.32	1.06	0.63	2.9%	0.25
28	08/23/18	WWF	0.90	43.00	0.52	0.85	2.48	1.71	2.35	0.83	11.9%	0.00	0.29	1.05	0.76	0.69	0.18	2.5%	0.25
29	08/25/18	WWF	1.18	22.75	0.98	0.90	2.39	1.47	1.28	0.43	4.7%	0.00	0.28	1.38	1.08	0.47	0.21	2.3%	0.25
30	08/28/18	WWF	0.96	20.75	0.94	1.01	2.41	1.42	1.09	0.22	3.0%	0.00	0.28	1.33	1.00	0.41	0.17	2.3%	1.24
31	08/29/18	WWF	2.20	6.75	1.12	1.05	1.92	0.87	0.38	0.08	0.5%	0.00	0.31	2.23	1.93	0.35	0.26	1.5%	0.67
32	09/02/18	WWF	1.11	52.25	0.84	1.02	2.76	1.70	2.63	0.40	4.7%	0.00	0.28	1.17	0.87	0.80	0.18	2.1%	0.27
33	09/06/18	WWF	1.04	33.00	0.40	1.00	1.97	0.94	1.66	0.28	3.5%	0.00	0.29	1.00	0.72	0.57	0.17	2.2%	0.25
34	09/23/18	WWF	0.65	25.75	0.41	0.91	2.01	1.09	1.31	0.33	6.5%	0.00	0.28	0.87	0.58	0.39	0.09	1.7%	0.26
35	10/09/18	WWF	0.97	26.50	0.28	0.96	1.95	0.99	1.31	0.25	3.4%	0.00	0.29	0.63	0.38	0.44	0.12	1.5%	0.25
36	12/09/18	WWF	2.33	22.00	1.78	1.01	1.65	0.59	1.19	0.26	1.5%	0.00	0.28	2.80	2.44	0.68	0.42	2.3%	0.25
37	12/14/18	WWF	2.81	46.50	0.57	0.97	1.91	0.94	2.55	0.66	3.0%	0.00	0.29	1.52	1.21	1.18	0.61	2.8%	0.31
38	12/19/18	WWF	4.18	77.00	1.12	0.96	1.97	0.98	4.14	1.07	3.3%	0.00	0.29	2.36	2.03	1.94	1.01	3.1%	0.25
39	01/04/19	WWF	0.83	16.50	0.57	0.87	1.58	0.66	0.77	0.18	2.7%	0.00	0.28	1.00	0.69	0.31	0.11	1.7%	0.29
40	01/27/19	WWF	1.69	47.50	0.23	1.04	1.65	0.58	2.46	0.39	3.0%	0.00	0.28	0.99	0.70	0.92	0.37	2.8%	0.41
41	02/12/19	WWF	0.94	30.50	0.80	0.94	1.44	0.46	1.40	0.21	2.8%	0.00	0.27	1.01	0.80	0.50	0.16	2.2%	0.64
42	02/26/19	WWF	2.52	47.25	0.66	0.90	2.11	1.20	2.23	0.46	2.4%	0.00	0.28	1.52	1.21	1.13	0.57	2.9%	1.26
43	03/04/19	WWF	0.63	43.00	0.48	0.92	1.64	0.80	1.97	0.32	6.6%	0.0	0.29	0.58	0.38	0.59	0.07	1.5%	0.7

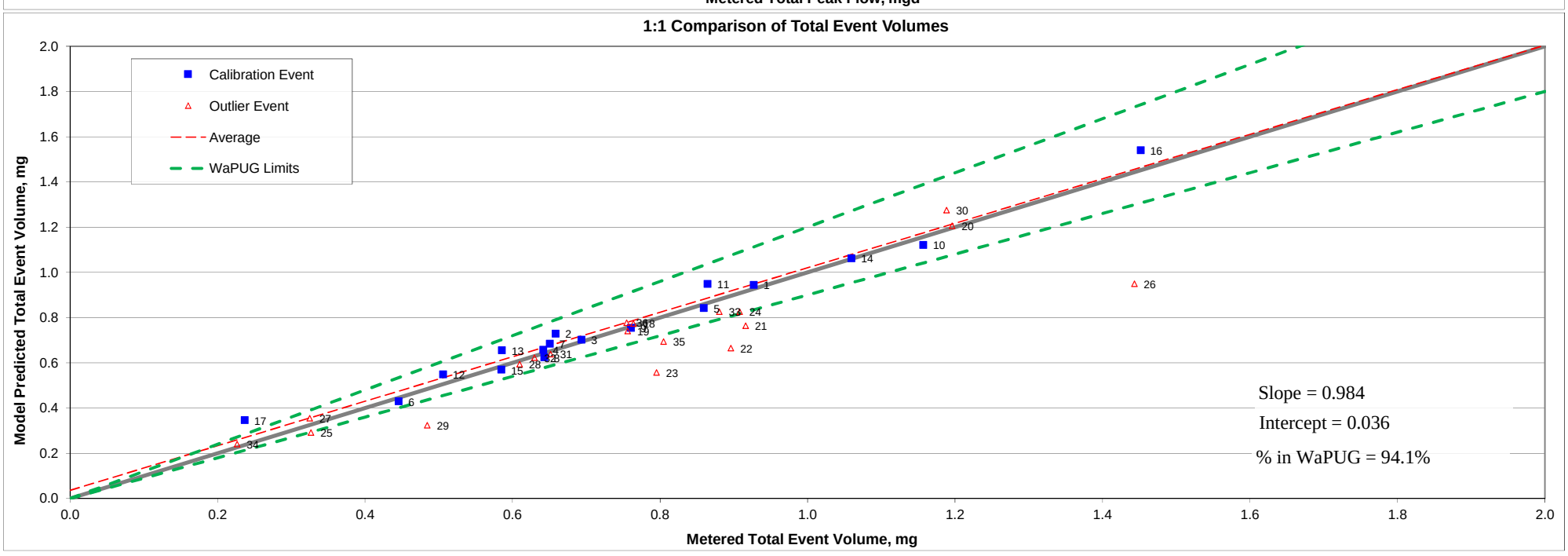




LS45: Hydraulic Model Validation Results

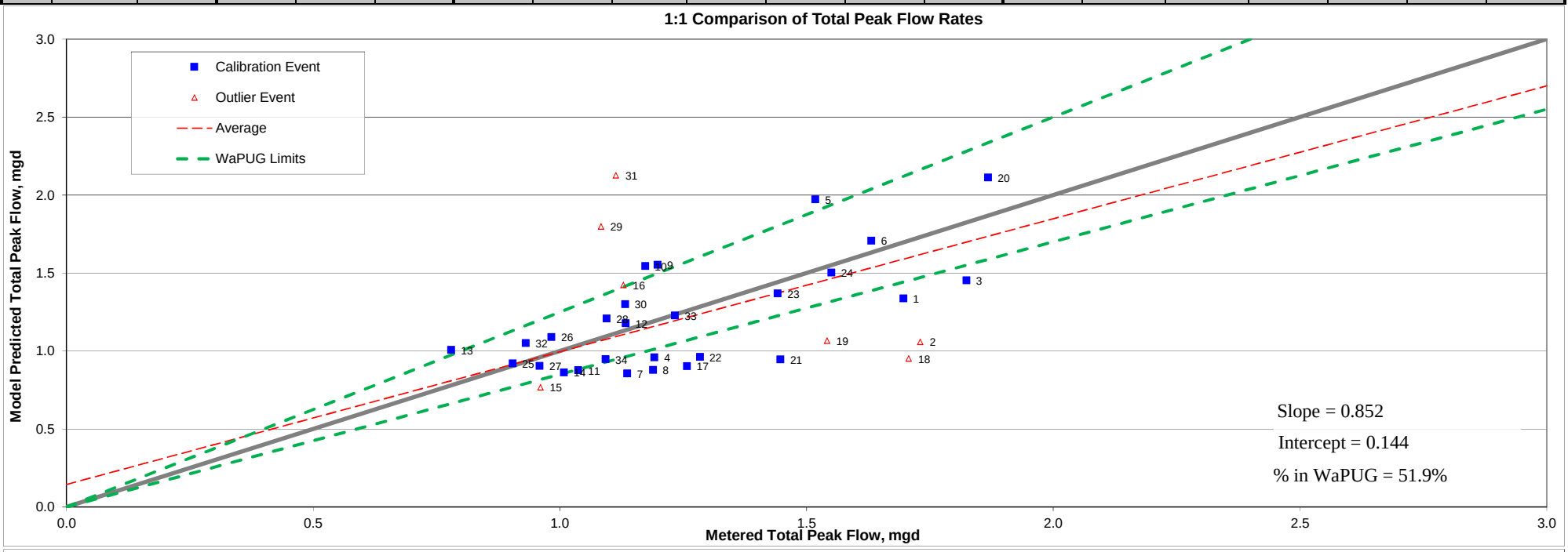
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	06/02/17	WWF	1.06	32.50	1.01	0.63	0.99	0.31	0.93	0.08	0.9%	0.00	0.64	0.95	0.21	0.94	0.08	1.0%	2.39
2	06/04/17	WWF	1.36	23.00	0.42	0.62	0.98	0.23	0.66	0.07	0.6%	0.00	0.62	0.98	0.21	0.73	0.13	1.2%	0.18
3	06/05/17	WWF	0.70	26.25	0.19	0.58	1.01	0.25	0.69	0.06	1.0%	0.00	0.59	0.86	0.10	0.70	0.05	1.0%	0.18
4	06/07/17	WWF	1.07	22.00	0.64	0.63	1.03	0.26	0.64	0.07	0.8%	0.00	0.63	0.93	0.20	0.66	0.08	0.9%	0.15
5	06/13/17	WWF	0.61	30.75	0.52	0.62	0.90	0.20	0.86	0.06	1.3%	0.00	0.62	0.80	0.12	0.84	0.05	0.9%	0.16
6	07/14/17	WWF	0.65	16.00	0.64	0.60	0.95	0.24	0.45	0.04	0.8%	0.00	0.58	0.86	0.13	0.43	0.04	0.8%	0.16
7	07/18/17	WWF	1.57	22.50	1.48	0.61	0.94	0.19	0.65	0.08	0.6%	0.00	0.60	1.02	0.32	0.68	0.12	0.9%	1.62
8	07/22/17	WWF	0.79	21.00	0.65	0.65	1.00	0.22	0.64	0.07	1.2%	0.00	0.65	0.94	0.16	0.62	0.06	0.9%	0.18
9	07/23/17	WWF	0.65	29.00	0.28	0.58	0.98	0.19	0.76	0.06	1.2%	0.00	0.58	0.85	0.08	0.75	0.05	1.0%	0.18
10	07/30/17	WWF	1.10	38.50	0.42	0.67	0.99	0.27	1.16	0.09	1.0%	0.00	0.65	0.84	0.13	1.12	0.08	0.9%	0.19
11	08/12/17	WWF	2.09	27.25	1.52	0.72	1.04	0.21	0.86	0.04	0.3%	0.00	0.69	1.27	0.43	0.95	0.16	1.0%	0.17
12	08/23/17	WWF	1.24	17.25	1.19	0.64	1.03	0.29	0.51	0.05	0.5%	0.00	0.65	0.95	0.25	0.55	0.08	0.9%	0.21
13	08/28/17	WWF	1.97	19.25	1.08	0.68	0.96	0.17	0.59	0.04	0.2%	0.00	0.66	1.09	0.37	0.65	0.13	0.8%	0.18
14	08/29/17	WWF	0.57	33.50	0.29	0.74	0.94	0.15	1.06	0.03	0.7%	0.00	0.72	0.93	0.10	1.06	0.06	1.4%	0.18
15	09/01/17	WWF	0.60	20.25	0.33	0.67	0.86	0.17	0.59	0.02	0.4%	0.00	0.63	0.84	0.11	0.57	0.04	0.8%	0.18
16	09/10/17	WWF	4.86	40.75	1.06	0.67	1.26	0.84	1.45	0.32	0.8%	0.00	0.68	1.26	0.78	1.54	0.39	1.0%	0.22
17	10/23/17	WWF	2.28	9.50	1.03	0.62	0.81	0.13	0.24	-0.01	-0.1%	0.00	0.65	1.07	0.44	0.35	0.09	0.5%	0.20
18	**01/03/18**	**WWF**	**0.96**	**27.00**	**0.24**	**0.64**	**1.03**	**0.21**	**0.76**	**0.04**	**0.6%**	**0.00**	**0.62**	**0.97**	**0.15**	**0.77**	**0.07**	**0.9%**	**1.10**
19	**01/08/18**	**WWF**	**0.88**	**25.00**	**0.33**	**0.65**	**1.03**	**0.32**	**0.76**	**0.08**	**1.2%**	**0.00**	**0.65**	**0.93**	**0.17**	**0.74**	**0.06**	**0.9%**	**0.20**
20	**01/28/18**	**WWF**	**2.65**	**36.00**	**0.91**	**0.60**	**3.54**	**2.83**	**1.20**	**0.30**	**1.4%**	**0.00**	**0.67**	**1.16**	**0.45**	**1.21**	**0.21**	**1.0%**	**2.41**
21	**05/14/18**	**WWF**	**1.28**	**26.25**	**0.54**	**0.75**	**1.25**	**0.36**	**0.92**	**0.09**	**0.9%**	**0.00**	**0.60**	**0.98**	**0.22**	**0.76**	**0.10**	**1.0%**	**0.25**
22	**05/21/18**	**WWF**	**0.63**	**24.00**	**0.28**	**0.78**	**1.26**	**0.36**	**0.90**	**0.12**	**2.3%**	**0.00**	**0.62**	**0.82**	**0.08**	**0.66**	**0.04**	**0.9%**	**0.24**
23	**05/24/18**	**WWF**	**0.58**	**20.50**	**0.58**	**0.79**	**1.43**	**0.52**	**0.80**	**0.12**	**2.7%**	**0.00**	**0.61**	**0.81**	**0.11**	**0.56**	**0.04**	**0.9%**	**0.24**
24	**08/11/18**	**WWF**	**0.83**	**26.25**	**0.49**	**0.73**	**1.51**	**0.67**	**0.91**	**0.11**	**1.7%**	**0.00**	**0.70**	**0.96**	**0.16**	**0.83**	**0.06**	**0.9%**	**0.25**
25	**08/29/18**	**WWF**	**3.06**	**6.75**	**1.98**	**0.90**	**2.08**	**1.15**	**0.33**	**0.07**	**0.3%**	**0.00**	**0.78**	**1.38**	**0.61**	**0.29**	**0.07**	**0.3%**	**0.27**
26	**10/09/18**	**WWF**	**0.66**	**39.50**	**0.26**	**0.74**	**1.97**	**1.04**	**1.44**	**0.23**	**4.4%**	**0.00**	**0.55**	**0.82**	**0.10**	**0.95**	**0.05**	**0.9%**	**0.25**
27	**11/02/18**	**WWF**	**0.77**	**10.75**	**0.66**	**0.73**	**0.85**	**0.11**	**0.32**	**0.00**	**-0.1%**	**0.00**	**0.70**	**0.90**	**0.15**	**0.36**	**0.04**	**0.7%**	**0.25**
28	**12/09/18**	**WWF**	**2.13**	**13.75**	**1.79**	**0.73**	**4.81**	**4.03**	**0.61**	**0.19**	**1.1%**	**0.00**	**0.81**	**1.27**	**0.44**	**0.59**	**0.13**	**0.8%**	**0.28**
29	**12/14/18**	**WWF**	**1.02**	**8.25**	**0.63**	**0.73**	**3.73**	**2.97**	**0.48**	**0.23**	**2.9%**	**0.00**	**0.83**	**1.01**	**0.20**	**0.32**	**0.04**	**0.5%**	**0.22**
30	**12/14/18**	**WWF**	**1.88**	**38.50**	**0.58**	**0.58**	**1.45**	**0.95**	**1.19**	**0.26**	**1.7%**	**0.00**	**0.68**	**1.01**	**0.30**	**1.28**	**0.18**	**1.2%**	**0.26**
31	**01/04/19**	**WWF**	**0.81**	**21.75**	**0.56**	**0.65**	**1.04**	**0.25**	**0.65**	**0.07**	**1.0%**	**0.00**	**0.64**	**0.91**	**0.16**	**0.64**	**0.06**	**0.9%**	**0.32**
32	**01/24/19**	**WWF**	**0.65**	**20.25**	**0.47**	**0.72**	**0.94**	**0.14**	**0.63**	**0.03**	**0.5%**	**0.00**	**0.68**	**0.93**	**0.12**	**0.62**	**0.04**	**0.9%**	**0.27**
33	**01/27/19**	**WWF**	**1.67**	**27.50**	**0.24**	**0.66**	**1.08**	**0.24**	**0.88**	**0.12**	**0.9%**	**0.00**	**0.62**	**0.97**	**0.22**	**0.83**	**0.12**	**0.9%**	**0.27**
34	**02/12/19**	**WWF**	**0.59**	**10.25**	**0.45**	**0.46**	**0.77**	**0.20**	**0.23**	**0.03**	**0.6%**	**0.00**	**0.51**	**0.83**	**0.09**	**0.24**	**0.02**	**0.5%**	**0.26**
35	**02/26/19**	**WWF**	**2.04**	**21.00**	**0.52**	**0.53**	**1.68**	**1.00**	**0.80**	**0.34**	**2.1%**	**0.00**	**0.63**	**1.07**	**0.31**	**0.69**	**0.14**	**0.9%**	**0.27**
36	**03/04/19**	**WWF**	**0.63**	**29.00**	**0.61**	**0.52**	**0.96**	**0.25**	**0.75**	**0.12**	**2.4%**	**0.00**	**0.61**	**0.91**	**0.12**	**0.78**	**0.05**	**0.9%**	**0.27**

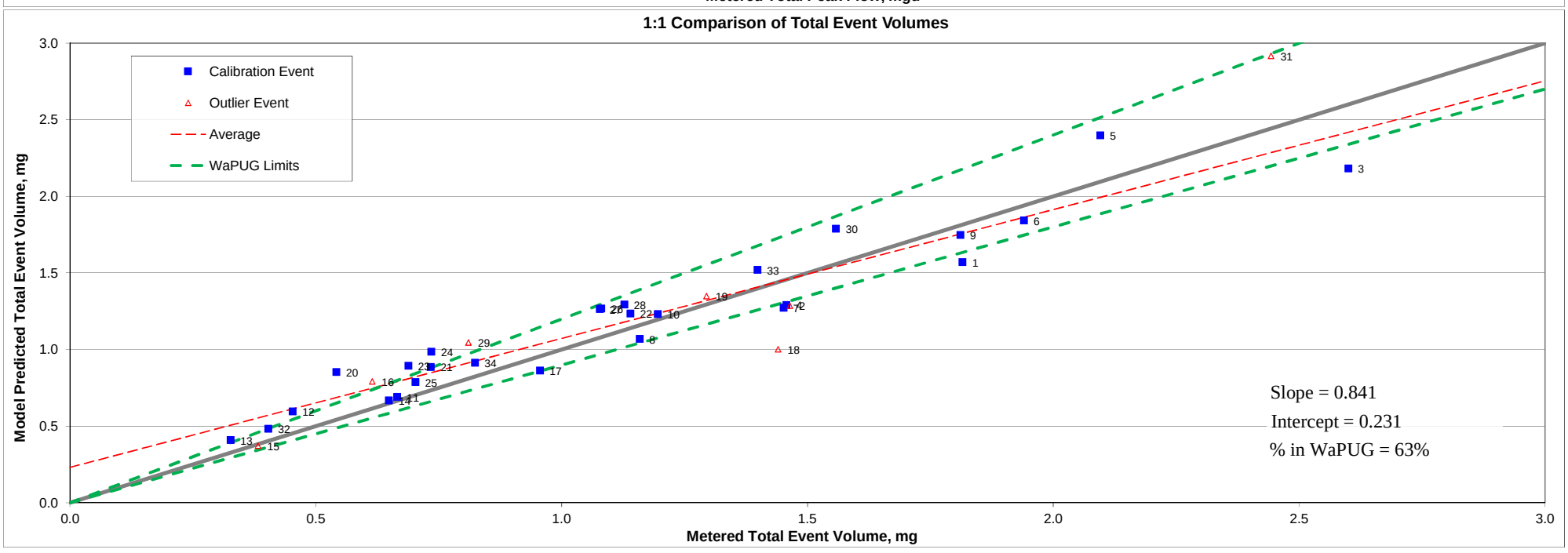




LS11: Hydraulic Model Validation Results

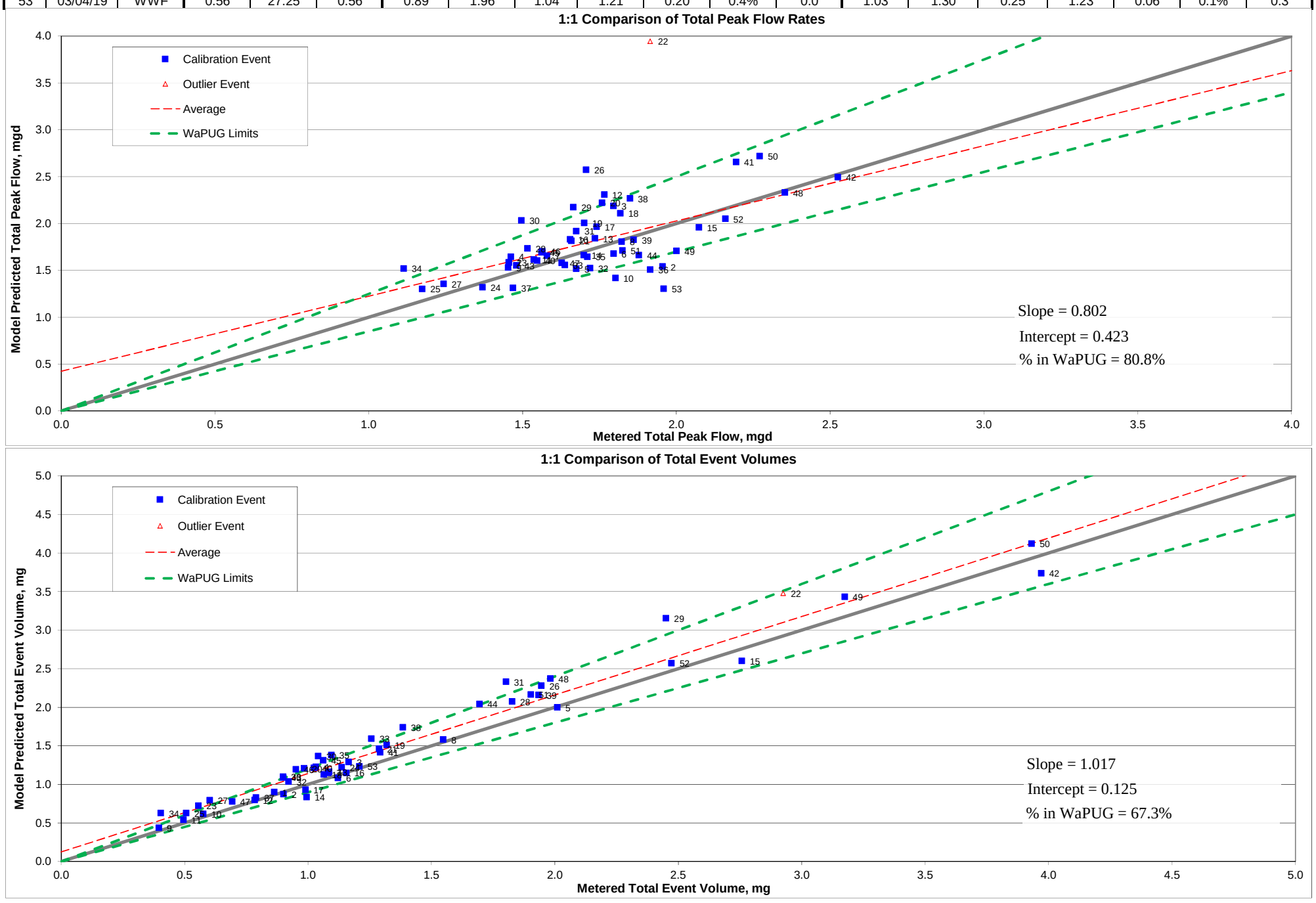
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	08/12/17	WWF	1.34	39.25	1.20	1.00	1.70	0.68	1.82	0.19	1.5%	0.00	0.89	1.34	0.39	1.57	0.11	0.8%	0.16
2	**08/23/17**	**WWF**	**0.81**	**34.25**	**0.56**	**0.97**	**1.73**	**0.72**	**1.46**	**0.08**	**1.0%**	**0.00**	**0.87**	**1.06**	**0.16**	**1.29**	**0.04**	**0.5%**	**0.16**
3	08/28/17	WWF	2.40	52.00	0.51	0.97	1.82	0.77	2.60	0.49	2.1%	0.00	0.88	1.45	0.55	2.18	0.27	1.2%	0.16
4	09/01/17	WWF	1.12	37.00	0.49	0.91	1.19	0.23	1.46	0.06	0.5%	0.00	0.82	0.96	0.08	1.29	0.02	0.2%	0.16
5	09/10/17	WWF	3.04	54.25	0.69	0.80	1.52	0.70	2.10	0.28	1.0%	0.00	0.82	1.97	1.22	2.40	0.53	1.8%	0.16
6	10/23/17	WWF	2.29	42.25	1.03	0.92	1.63	0.64	1.94	0.32	1.4%	0.00	0.91	1.71	0.75	1.84	0.24	1.1%	0.26
7	01/08/18	WWF	0.81	39.25	0.34	0.80	1.14	0.32	1.45	0.14	1.8%	0.00	0.78	0.86	0.00	1.27	0.00	0.0%	0.27
8	01/22/18	WWF	0.50	32.25	0.31	0.73	1.19	0.39	1.16	0.18	3.8%	0.00	0.78	0.88	0.06	1.07	0.02	0.4%	0.21
9	01/28/18	WWF	2.41	45.75	0.78	0.81	1.20	0.34	1.81	0.27	1.2%	0.00	0.78	1.55	0.73	1.75	0.26	1.1%	0.21
10	02/04/18	WWF	1.95	30.25	1.15	0.87	1.17	0.23	1.20	0.09	0.5%	0.00	0.83	1.54	0.68	1.23	0.18	1.0%	0.21
11	05/21/18	WWF	1.16	20.25	0.84	0.69	1.04	0.36	0.67	0.09	0.8%	0.00	0.80	0.88	0.05	0.69	0.01	0.1%	0.24
12	05/30/18	WWF	0.69	14.75	0.25	0.66	1.13	0.49	0.45	0.04	0.7%	0.00	0.86	1.18	0.32	0.59	0.07	1.0%	0.24
13	06/25/18	WWF	0.50	13.00	0.48	0.59	0.78	0.16	0.33	0.01	0.1%	0.00	0.64	1.01	0.29	0.41	0.06	1.3%	0.25
14	06/28/18	WWF	1.02	21.75	0.79	0.65	1.01	0.50	0.65	0.06	0.7%	0.00	0.68	0.86	0.13	0.67	0.05	0.5%	0.39
15	**06/30/18**	**WWF**	**0.50**	**12.25**	**0.40**	**0.71**	**0.96**	**0.27**	**0.38**	**0.02**	**0.4%**	**0.00**	**0.73**	**0.77**	**0.00**	**0.37**	**0.00**	**0.0%**	**0.26**
16	**07/02/18**	**WWF**	**0.92**	**21.50**	**0.90**	**0.64**	**1.13**	**0.42**	**0.62**	**0.04**	**0.4%**	**0.00**	**0.70**	**1.42**	**0.67**	**0.79**	**0.17**	**1.9%**	**0.25**
17	07/23/18	WWF	0.52	28.50	0.32	0.65	1.26	0.62	0.96	0.18	3.7%	0.00	0.69	0.90	0.18	0.86	0.04	0.9%	0.25
18	**07/31/18**	**WWF**	**0.83**	**29.75**	**0.44**	**0.69**	**1.71**	**1.09**	**1.44**	**0.58**	**7.3%**	**0.00**	**0.79**	**0.95**	**0.07**	**1.00**	**0.02**	**0.2%**	**0.25**
19	**08/03/18**	**WWF**	**0.77**	**36.00**	**0.61**	**0.66**	**1.54**	**0.93**	**1.29**	**0.30**	**4.1%**	**0.00**	**0.86**	**1.07**	**0.22**	**1.35**	**0.06**	**0.8%**	**0.25**
20	08/11/18	WWF	2.79	15.25	1.57	0.75	1.87	1.05	0.54	0.07	0.3%	0.00	0.91	2.11	1.19	0.85	0.27	1.0%	0.24
21	08/23/18	WWF	0.90	24.25	0.52	0.69	1.45	0.75	0.73	0.04	0.5%	0.00	0.88	0.95	0.00	0.88	0.00	0.0%	0.35
22	08/25/18	WWF	1.39	33.50	0.98	0.69	1.28	0.73	1.14	0.18	1.4%	0.00	0.87	0.96	0.06	1.23	0.01	0.1%	0.27
23	08/28/18	WWF	0.96	21.50	0.94	0.69	1.44	0.71	0.69	0.07	0.8%	0.00	0.87	1.37	0.45	0.89	0.11	1.2%	0.25
24	08/29/18	WWF	2.20	22.50	1.12	0.69	1.55	0.80	0.74	0.09	0.4%	0.00	0.87	1.50	0.58	0.98	0.16	0.8%	0.24
25	09/02/18	WWF	0.85	22.50	0.84	0.69	0.90	0.33	0.70	0.05	0.7%	0.00	0.83	0.92	0.04	0.79	0.01	0.1%	0.25
26	09/06/18	WWF	1.04	34.25	0.40	0.71	0.98	0.27	1.08	0.07	0.7%	0.00	0.85	1.09	0.20	1.27	0.06	0.6%	0.25
27	09/23/18	WWF	0.69	36.50	0.41	0.62	0.96	0.36	1.08	0.13	2.0%	0.00	0.83	0.90	0.01	1.26	0.00	0.0%	0.25
28	10/09/18	WWF	0.97	31.75	0.28	0.76	1.10	0.49	1.13	0.13	1.4%	0.00	0.92	1.21	0.22	1.29	0.08	0.8%	0.28
29	**12/09/18**	**WWF**	**2.33**	**24.00**	**1.78**	**0.72**	**1.08**	**0.25**	**0.81**	**0.09**	**0.4%**	**0.00**	**0.80**	**1.80**	**0.94**	**1.04**	**0.24**	**1.1%**	**0.24**
30	12/14/18	WWF	2.81	44.75	0.57	0.71	1.13	0.48	1.56	0.24	0.9%	0.00	0.81	1.30	0.48	1.79	0.28	1.0%	0.25
31	**12/19/18**	**WWF**	**4.18**	**71.50**	**1.12**	**0.70**	**1.11**	**0.43**	**2.44**	**0.36**	**0.9%**	**0.00**	**0.80**	**2.13**	**1.26**	**2.92**	**0.52**	**1.3%**	**0.29**
32	01/04/19	WWF	0.83	13.25	0.57	0.69	0.93	0.21	0.40	0.02	0.3%	0.00	0.79	1.05	0.21	0.48	0.04	0.6%	0.26
33	01/27/19	WWF	1.69	40.75	0.23	0.72	1.23	0.45	1.40	0.18	1.1%	0.00	0.79	1.23	0.39	1.52	0.18	1.1%	0.75
34	02/12/19	WWF	0.94	25.25	0.80	0.76	1.09	0.49	0.82	0.02	0.2%	0.00	0.82	0.95	0.16	0.91	0.05	0.5%	0.25





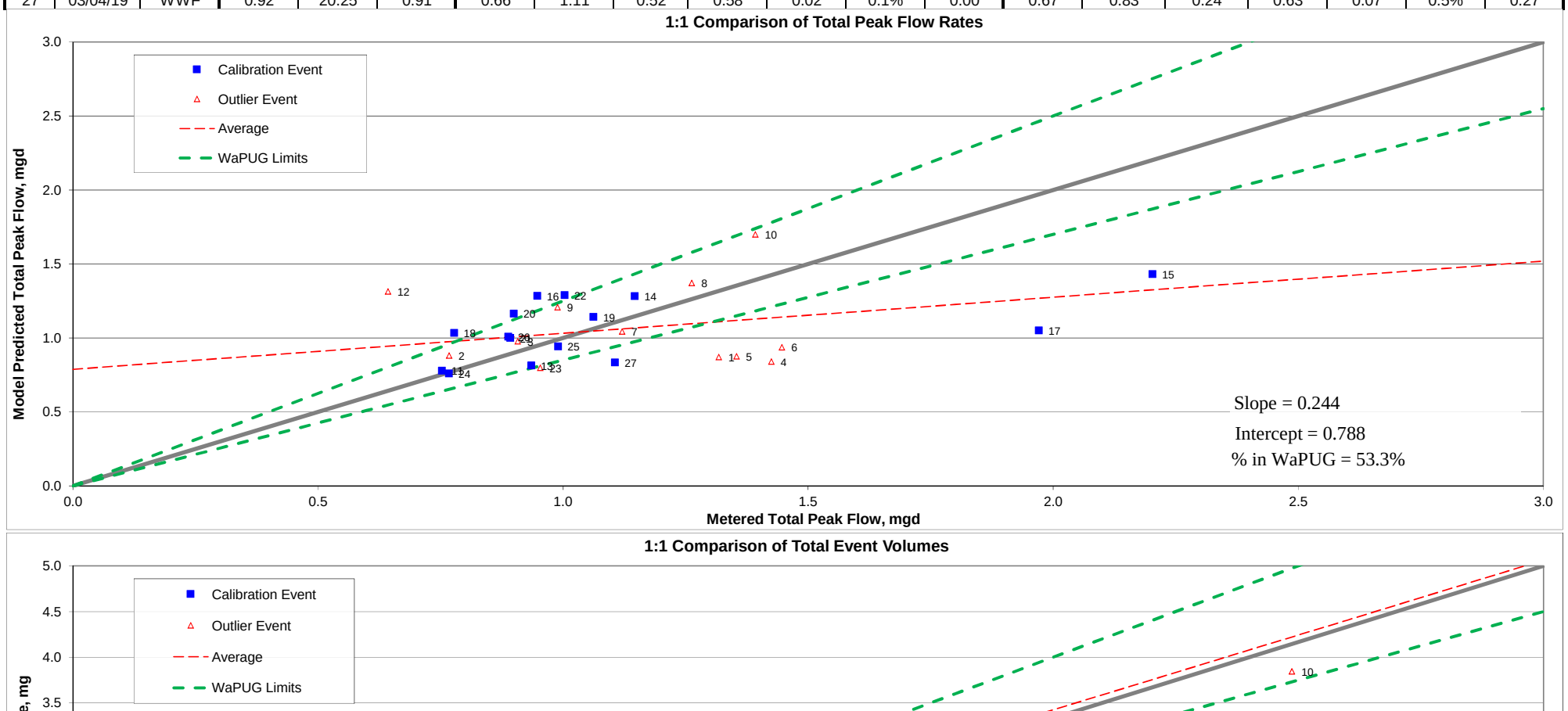
E1A: Hydraulic Model Validation Results

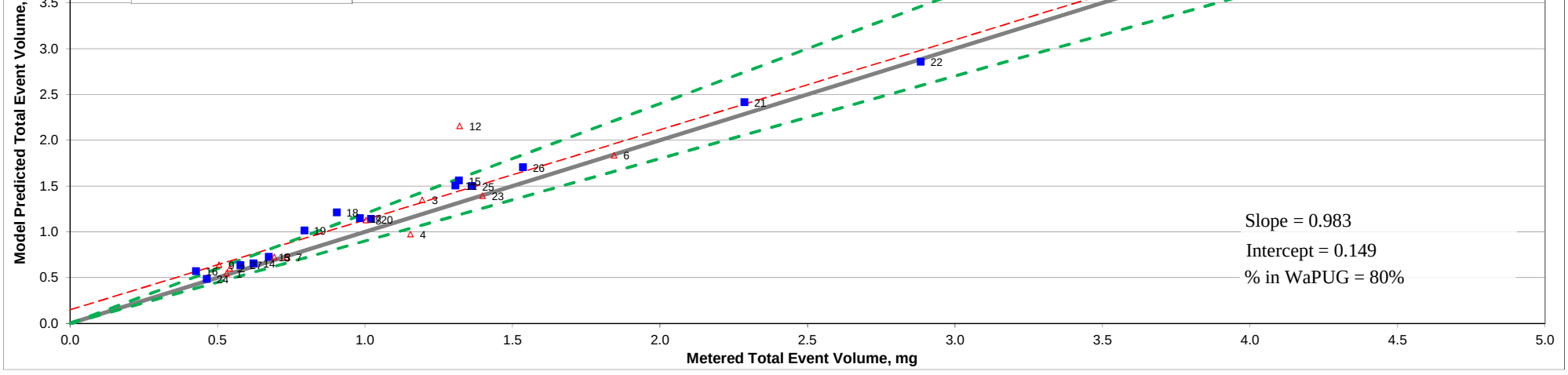
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	06/02/17	WWF	0.79	17.75	0.78	1.04	1.46	0.32	0.86	0.09	0.1%	0.00	1.08	1.58	0.37	0.90	0.10	0.1%	2.39
2	06/03/17	WWF	0.77	16.00	0.59	1.14	1.96	0.76	0.90	0.14	0.2%	0.00	1.15	1.54	0.36	0.87	0.11	0.2%	1.29
3	06/04/17	WWF	1.80	20.75	1.25	1.11	1.80	0.62	1.17	0.21	0.1%	0.00	1.12	2.19	1.01	1.29	0.32	0.2%	0.18
4	06/05/17	WWF	0.77	20.75	0.42	1.08	1.46	0.32	1.03	0.10	0.2%	0.00	1.11	1.64	0.47	1.23	0.27	0.4%	0.18
5	06/07/17	WWF	0.94	40.75	0.35	1.05	1.68	0.45	2.01	0.22	0.3%	0.00	1.08	1.52	0.35	2.00	0.17	0.2%	0.16
6	06/11/17	WWF	1.02	20.75	1.01	1.08	1.80	0.63	1.12	0.19	0.2%	0.00	1.07	1.68	0.50	1.08	0.16	0.2%	0.16
7	06/12/17	WWF	1.05	21.25	0.80	1.08	1.58	0.49	1.08	0.13	0.1%	0.00	1.07	1.66	0.59	1.15	0.20	0.2%	0.16
8	06/13/17	WWF	1.25	28.25	1.07	1.11	1.82	0.59	1.55	0.24	0.2%	0.00	1.10	1.81	0.62	1.58	0.28	0.3%	0.16
9	06/26/17	WWF	0.81	8.00	0.61	1.14	1.45	0.31	0.40	0.01	0.0%	0.00	1.17	1.53	0.37	0.44	0.05	0.1%	0.16
10	07/05/17	WWF	0.67	12.25	0.66	0.91	1.80	0.71	0.58	0.11	0.2%	0.00	1.08	1.42	0.31	0.62	0.06	0.1%	0.24
11	07/20/17	WWF	0.81	9.25	0.69	1.32	1.54	0.26	0.50	-0.01	0.0%	0.00	1.22	1.62	0.40	0.54	0.07	0.1%	0.27
12	07/21/17	WWF	1.11	12.75	1.03	1.31	1.77	0.42	0.78	0.09	0.1%	0.00	1.17	2.31	1.08	0.80	0.17	0.2%	0.22
13	07/22/17	WWF	0.97	18.75	0.83	1.33	1.74	0.28	1.09	0.05	0.1%	0.00	1.16	1.84	0.60	1.16	0.26	0.3%	0.19
14	07/23/17	WWF	0.52	18.25	0.13	1.33	1.70	0.37	0.99	-0.02	0.0%	0.00	1.14	1.66	0.40	0.84	-0.03	-0.1%	0.17
15	07/30/17	WWF	1.67	48.00	0.73	1.24	2.07	0.76	2.76	0.28	0.2%	0.00	1.13	1.96	0.73	2.60	0.33	0.2%	0.19
16	08/02/17	WWF	1.07	20.75	0.62	1.23	1.66	0.34	1.16	0.09	0.1%	0.00	1.12	1.83	0.57	1.15	0.18	0.2%	0.18
17	08/07/17	WWF	1.24	16.00	1.22	1.17	1.74	0.81	0.99	0.21	0.2%	0.00	1.10	1.96	1.05	0.93	0.20	0.2%	0.18
18	08/08/17	WWF	0.88	19.75	0.88	1.12	1.82	0.60	1.06	0.14	0.2%	0.00	1.12	2.11	0.84	1.13	0.21	0.3%	0.18
19	08/24/17	WWF	1.42	26.00	1.38	1.11	1.70	0.53	1.32	0.12	0.1%	0.00	1.14	2.01	0.75	1.51	0.27	0.2%	0.18
20	08/28/17	WWF	2.58	17.25	0.91	1.13	1.76	0.71	0.98	0.17	0.1%	0.00	1.13	2.22	0.95	1.21	0.39	0.2%	0.18
21	08/29/17	WWF	0.82	25.00	0.72	1.16	1.66	0.37	1.29	0.08	0.1%	0.00	1.14	1.81	0.66	1.46	0.27	0.4%	0.17
22	**09/10/17**	**WWF**	**4.45**	**47.25**	**0.76**	**1.20**	**1.91**	**0.82**	**2.92**	**0.56**	**0.1%**	**0.00**	**1.22**	**3.94**	**2.84**	**3.48**	**1.08**	**0.3%**	**0.22**
23	10/23/17	WWF	0.85	12.75	0.37	1.13	1.46	0.25	0.56	-0.04	-0.1%	0.00	1.22	1.58	0.34	0.72	0.07	0.1%	0.20
24	01/03/18	WWF	0.61	26.75	0.14	0.94	1.37	0.33	1.14	0.09	0.2%	0.00	1.03	1.32	0.18	1.22	0.07	0.1%	1.10
25	01/09/18	WWF	0.85	13.25	0.46	0.89	1.17	0.22	0.51	0.02	0.0%	0.00	0.97	1.30	0.37	0.63	0.09	0.1%	0.20
26	02/04/18	WWF	1.94	42.75	1.00	1.00	1.71	0.56	1.95	0.16	0.1%	0.00	1.05	2.57	1.42	2.28	0.40	0.2%	0.28
27	04/11/18	WWF	0.76	15.00	0.63	0.90	1.24	0.32	0.60	0.04	0.1%	0.00	1.02	1.35	0.49	0.79	0.16	0.2%	0.24
28	04/15/18	WWF	1.25	40.25	0.93	0.98	1.52	0.48	1.83	0.19	0.2%	0.00	1.08	1.73	0.56	2.08	0.26	0.2%	0.28
29	05/13/18	WWF	2.77	61.50	1.01	0.87	1.67	0.72	2.45	0.23	0.1%	0.00	0.98	2.17	1.07	3.15	0.64	0.3%	0.25
30	05/20/18	WWF	1.96	25.75	1.22	0.95	1.50	0.51	1.04	0.02	0.0%	0.00	0.97	2.03	0.94	1.37	0.32	0.2%	0.25
31	05/21/18	WWF	1.88	44.25	0.76	0.95	1.67	0.67	1.80	0.06	0.0%	0.00	0.98	1.92	0.84	2.33	0.52	0.3%	0.25
32	05/30/18	WWF	1.06	21.25	0.59	0.97	1.72	0.70	0.92	0.06	0.1%	0.00	1.01	1.52	0.45	1.04	0.14	0.2%	0.24
33	06/28/18	WWF	1.00	31.00	0.72	0.75	1.64	0.78	1.26	0.28	0.3%	0.00	1.11	1.56	0.34	1.59	0.16	0.2%	0.25
34	07/01/18	WWF	0.56	11.00	0.56	0.84	1.11	0.30	0.40	0.02	0.0%	0.00	1.24	1.52	0.27	0.63	0.06	0.1%	0.25
35	07/20/18	WWF	1.03	26.00	0.54	0.90	1.71	0.66	1.10	0.12	0.1%	0.00	1.14	1.65	0.41	1.38	0.15	0.2%	0.24
36	07/23/18	WWF	0.78	21.00	0.62	0.91	1.92	0.91	0.90	0.10	0.2%	0.00	1.13	1.51	0.39	1.10	0.11	0.2%	0.23
37	07/31/18	WWF	0.57	16.25	0.56	0.97	1.47	0.54	0.79	0.13	0.3%	0.00	1.09	1.31	0.30	0.83	0.09	0.2%	0.24
38	08/11/18	WWF	1.94	28.00	1.44	0.99	1.85	0.92	1.38	0.23	0.1%	0.00	1.15	2.27	1.03	1.74	0.40	0.2%	0.25
39	08/19/18	WWF	1.31	39.00	1.11	0.93	1.86	0.88	1.93	0.42	0.4%	0.00	1.17	1.82	0.58	2.16	0.26	0.2%	1.22
40	08/24/18	WWF	1.16	22.50	0.70	0.85	1.55	0.66	1.02	0.23	0.2%	0.00	1.13	1.60	0.44	1.21	0.16	0.2%	0.27
41	08/28/18	WWF	2.48	20.75	2.32	0.87	2.19	1.51	1.29	0.54	0.3%	0.00	1.12	2.65	1.39	1.42	0.45	0.2%	0.25
42	08/29/18	WWF	2.08	65.25	1.23	0.98	2.53	1.48	3.97	1.32	0.7%	0.00	1.14	2.49	1.23	3.74	0.64	0.4%	0.27
43	09/06/18	WWF	0.68	19.75	0.41	0.92	1.48	0.50	0.90	0.14	0.2%	0.0	1.21	1.55	0.22	1.09	0.09	0.2%	0.2
44	09/10/18	WWF	0.76	37.00	0.74	0.97	1.88	0.87	1.70	0.21	0.3%	0.0	1.25	1.66	0.35	2.04	0.12	0.2%	0.3
45	09/24/18	WWF	0.93	23.25	0.85	1.04	1.56	0.50	1.06	0.05	0.1%	0.0	1.21	1.69	0.41	1.31	0.14	0.2%	0.3
46	09/26/18	WWF	1.35	19.75	1.27	0.99	1.57	0.57	0.95	0.13	0.1%	0.0	1.19	1.70	0.69	1.20	0.22	0.2%	0.2
47	11/02/18	WWF	0.92	15.00	0.79	0.96	1.63	0.59	0.69	0.09	0.1%	0.0	1.07	1.58	0.42	0.78	0.11	0.1%	0.3
48	12/09/18	WWF	2.07	40.00	1.08	0.96	2.35	1.25	1.98	0.38	0.2%	0.0	1.14	2.33	1.09	2.37	0.48	0.3%	0.3
49	12/14/18	WWF	2.28	61.75	0.66	1.05	2.00	0.85	3.17	0.47	0.2%	0.0	1.13	1.71	0.66	3.43	0.51	0.3%	0.3
50	12/19/18	WWF	4.15	66.50	1.22	1.13	2.27	1.12	3.93	0.81	0.2%	0.0	1.12	2.72	1.54	4.12	1.01	0.3%	1.3
51	01/27/19	WWF	1.83	41.00	0.24	0.92	1.83	0.73	1.90	0.34	0.2%	0.0	1.04	1.71	0.57	2.16	0.38	0.2%	0.3
52	02/26/19	WWF	2.55	44.75	0.69	0.90	2.16	1.17	2.47	0.79	0.4%	0.0	1.06	2.05	0.89	2.57	0.59	0.3%	0.6
53	03/04/19	WWF	0.56	27.25	0.56	0.89	1.96	1.04	1.21	0.20	0.4%	0.0	1.03	1.30	0.25	1.23	0.06	0.1%	0.3



E2A: Hydraulic Model Validation Results

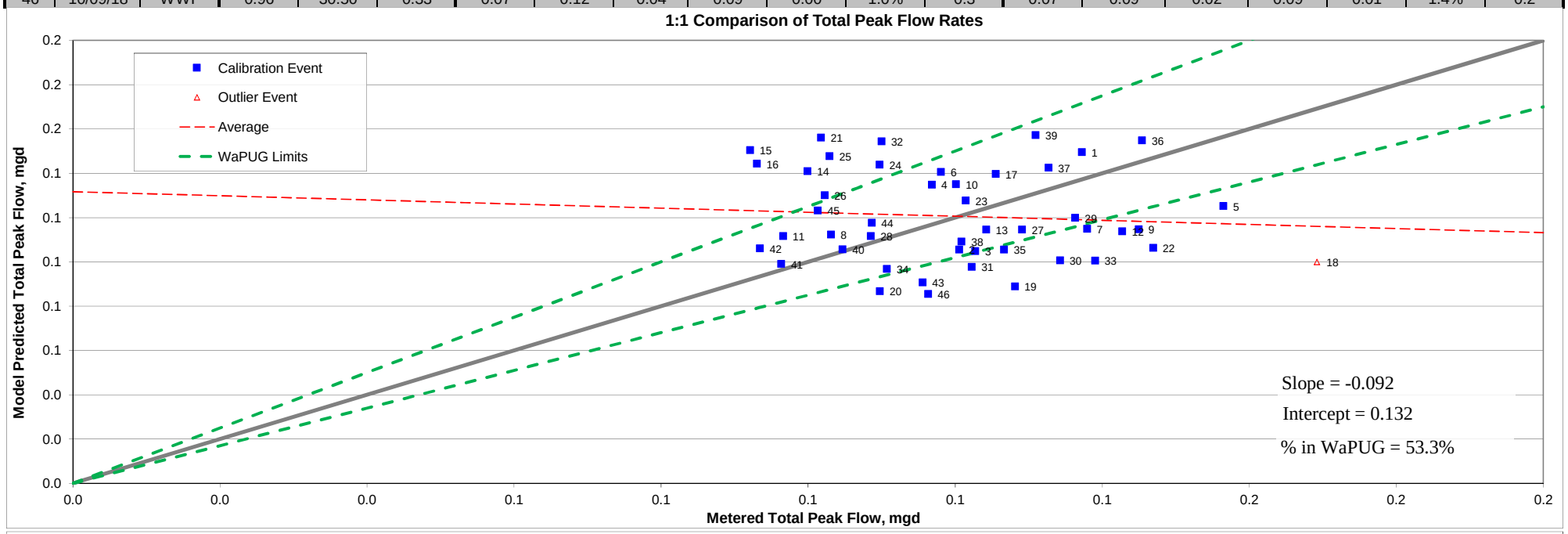
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	06/02/17	WWF	0.79	19.50	0.78	0.49	1.32	0.79	0.53	0.13	1.0%	0.00	0.53	0.87	0.29	0.55	0.11	0.8%	2.39
2	06/03/17	WWF	0.79	20.25	0.59	0.52	0.77	0.21	0.54	0.11	0.8%	0.00	0.54	0.88	0.30	0.60	0.15	1.1%	1.29
3	06/05/17	WWF	1.10	43.25	0.42	0.51	0.91	0.39	1.19	0.28	1.5%	0.00	0.54	0.98	0.41	1.35	0.37	2.0%	0.18
4	06/07/17	WWF	0.94	35.25	0.35	0.49	1.42	0.89	1.15	0.43	2.7%	0.00	0.53	0.84	0.27	0.98	0.20	1.2%	0.16
5	07/05/17	WWF	0.67	24.50	0.66	0.52	1.35	0.78	0.69	0.16	1.4%	0.00	0.60	0.87	0.24	0.72	0.11	1.0%	0.24
6	07/30/17	WWF	1.61	56.50	0.73	0.51	1.45	0.85	1.84	0.63	2.3%	0.00	0.62	0.94	0.39	1.83	0.38	1.4%	0.19
7	08/02/17	WWF	1.12	20.75	0.62	0.50	1.12	0.58	0.73	0.30	1.6%	0.00	0.63	1.04	0.37	0.72	0.18	0.9%	0.18
8	08/28/17	WWF	2.77	25.25	0.91	0.59	1.26	0.63	1.00	0.38	0.8%	0.00	0.63	1.37	0.70	1.13	0.46	1.0%	0.18
9	08/29/17	WWF	0.82	16.00	0.72	0.58	0.99	0.35	0.50	0.12	0.8%	0.00	0.62	1.21	0.54	0.64	0.23	1.6%	0.17
10	09/10/17	WWF	4.45	100.25	0.76	0.62	1.39	0.81	4.14	1.56	2.0%	0.00	0.67	1.70	1.05	3.84	1.04	1.4%	0.22
11	01/09/18	WWF	0.85	49.50	0.46	0.53	0.75	0.22	1.31	0.21	1.4%	0.00	0.68	0.78	0.17	1.50	0.11	0.7%	0.21
12	05/13/18	WWF	2.77	73.25	1.01	0.38	0.64	0.32	1.32	0.16	0.3%	0.00	0.50	1.31	0.77	2.16	0.62	1.3%	0.25
13	07/23/18	WWF	0.67	24.25	0.63	0.53	0.94	0.36	0.67	0.13	1.2%	0.00	0.60	0.81	0.26	0.72	0.12	1.0%	0.24
14	07/29/18	WWF	1.71	16.75	1.55	0.58	1.15	0.55	0.62	0.22	0.7%	0.00	0.62	1.28	0.64	0.65	0.22	0.8%	0.24
15	08/11/18	WWF	1.93	40.50	1.41	0.52	2.20	1.65	1.32	0.44	1.3%	0.00	0.64	1.43	0.75	1.56	0.47	1.4%	0.25
16	08/28/18	WWF	1.62	14.25	1.53	0.58	0.95	0.32	0.43	0.08	0.3%	0.00	0.62	1.28	0.61	0.57	0.20	0.7%	0.24
17	08/29/18	WWF	0.93	32.75	0.46	0.60	1.97	1.38	0.98	0.17	1.0%	0.00	0.64	1.05	0.38	1.15	0.27	1.7%	0.27
18	09/10/18	WWF	0.76	36.00	0.74	0.57	0.78	0.24	0.90	0.04	0.3%	0.00	0.68	1.03	0.33	1.21	0.19	1.4%	0.29
19	09/26/18	WWF	1.35	27.25	1.27	0.53	1.06	0.54	0.80	0.20	0.9%	0.00	0.67	1.14	0.52	1.01	0.25	1.1%	0.24
20	12/09/18	WWF	1.87	34.75	1.57	0.60	0.90	0.32	1.02	0.15	0.5%	0.00	0.65	1.16	0.49	1.14	0.20	0.6%	0.28
21	12/14/18	WWF	2.44	76.50	0.72	0.64	0.89	0.25	2.29	0.26	0.6%	0.00	0.65	1.00	0.32	2.41	0.35	0.8%	0.26
22	12/19/18	WWF	4.31	82.75	1.30	0.65	1.00	0.42	2.88	0.63	0.9%	0.00	0.65	1.29	0.66	2.86	0.61	0.8%	1.26
23	01/04/19	WWF	0.61	47.00	0.19	0.63	0.95	0.29	1.40	0.17	1.6%	0.00	0.68	0.80	0.08	1.40	0.07	0.6%	0.32
24	01/19/19	WWF	0.50	16.50	0.26	0.59	0.77	0.22	0.46	0.06	0.7%	0.00	0.66	0.76	0.10	0.48	0.03	0.3%	0.26
25	01/27/19	WWF	1.88	45.50	0.29	0.62	0.99	0.33	1.36	0.18	0.6%	0.00	0.68	0.94	0.22	1.50	0.21	0.7%	0.27
26	02/26/19	WWF	1.82	49.75	0.58	0.67	0.89	0.20	1.54	0.15	0.5%	0.00	0.71	1.01	0.26	1.70	0.23	0.7%	0.63
27	03/04/19	WWF	0.92	20.25	0.91	0.66	1.11	0.52	0.58	0.02	0.1%	0.00	0.67	0.83	0.24	0.63	0.07	0.5%	0.27

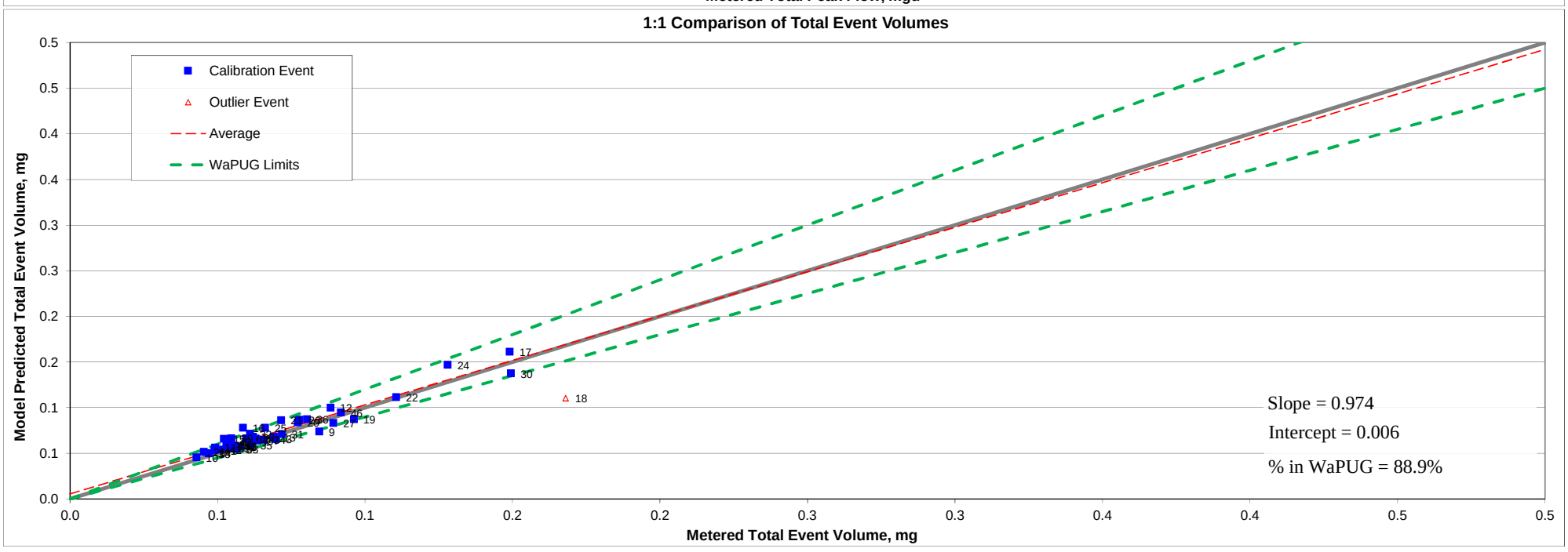




CLNash: Hydraulic Model Validation Results

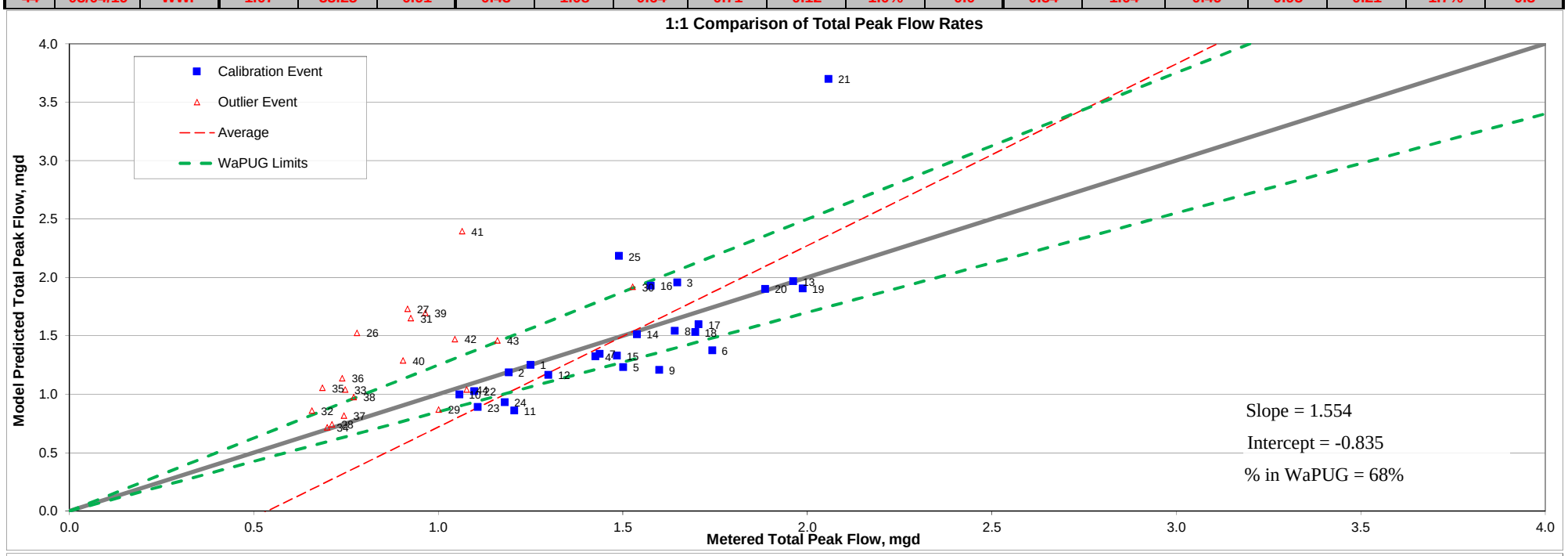
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	06/04/17	WWF	1.80	13.50	1.25	0.09	0.14	0.04	0.05	0.00	0.2%	0.32	0.09	0.15	0.07	0.06	0.01	1.1%	0.17
2	06/05/17	WWF	0.77	15.00	0.42	0.09	0.12	0.03	0.06	0.00	0.5%	0.32	0.08	0.11	0.02	0.06	0.01	1.4%	0.18
3	06/07/17	WWF	0.73	17.75	0.35	0.09	0.12	0.04	0.07	0.01	1.4%	0.32	0.08	0.10	0.02	0.07	0.00	1.4%	0.15
4	06/11/17	WWF	1.02	18.00	1.01	0.08	0.12	0.03	0.06	0.00	0.1%	0.32	0.08	0.13	0.05	0.07	0.01	1.4%	0.16
5	06/12/17	WWF	1.05	15.00	0.80	0.08	0.16	0.06	0.05	0.00	0.5%	0.31	0.08	0.13	0.04	0.06	0.01	1.3%	0.16
6	06/13/17	WWF	1.23	17.50	1.07	0.08	0.12	0.04	0.06	0.00	-0.2%	0.31	0.08	0.14	0.05	0.07	0.01	1.4%	0.15
7	06/26/17	WWF	0.81	17.25	0.61	0.08	0.14	0.05	0.06	0.01	1.4%	0.32	0.08	0.11	0.03	0.06	0.01	1.4%	0.16
8	07/05/17	WWF	0.67	16.50	0.66	0.07	0.10	0.04	0.06	0.01	3.2%	0.34	0.07	0.11	0.03	0.05	0.00	1.4%	0.24
9	07/20/17	WWF	0.98	21.50	0.69	0.07	0.15	0.07	0.08	0.02	4.0%	0.32	0.07	0.11	0.04	0.07	0.01	1.4%	0.27
10	07/21/17	WWF	1.11	12.25	1.03	0.07	0.12	0.04	0.04	0.01	1.5%	0.30	0.08	0.13	0.05	0.05	0.01	1.3%	0.22
11	07/22/17	WWF	0.97	15.00	0.83	0.07	0.10	0.02	0.05	0.00	0.8%	0.32	0.08	0.11	0.04	0.06	0.01	1.5%	0.19
12	07/30/17	WWF	1.60	28.25	0.73	0.07	0.14	0.07	0.09	0.01	1.2%	0.46	0.08	0.11	0.04	0.10	0.01	1.4%	0.19
13	08/02/17	WWF	1.12	19.50	0.62	0.08	0.12	0.04	0.07	0.00	0.6%	0.31	0.07	0.11	0.04	0.07	0.01	1.4%	0.18
14	08/07/17	WWF	1.24	14.00	1.22	0.08	0.10	0.01	0.05	0.00	0.5%	0.29	0.07	0.14	0.06	0.05	0.01	1.3%	0.18
15	08/24/17	WWF	1.42	18.25	1.38	0.07	0.09	0.02	0.05	0.00	0.1%	0.30	0.07	0.15	0.07	0.07	0.01	1.4%	0.18
16	08/28/17	WWF	2.58	19.50	0.91	0.07	0.09	0.03	0.06	0.00	0.2%	0.29	0.07	0.14	0.06	0.08	0.02	1.4%	0.18
17	09/10/17	WWF	4.46	44.25	0.76	0.07	0.13	0.05	0.15	0.02	0.8%	0.32	0.07	0.14	0.07	0.16	0.03	1.4%	0.22
18	**10/23/17**	**WWF**	**0.88**	**36.25**	**0.37**	**0.07**	**0.17**	**0.09**	**0.17**	**0.06**	**14.8%**	**0.34**	**0.07**	**0.10**	**0.02**	**0.11**	**0.01**	**1.5%**	**0.21**
19	01/03/18	WWF	0.62	26.75	0.14	0.07	0.13	0.05	0.10	0.02	5.3%	0.33	0.07	0.09	0.01	0.09	0.00	1.4%	1.10
20	01/09/18	WWF	0.85	24.75	0.46	0.07	0.11	0.04	0.08	0.00	0.3%	0.34	0.08	0.09	0.02	0.08	0.01	1.4%	0.20
21	02/04/18	WWF	1.96	21.75	1.00	0.08	0.10	0.02	0.07	0.00	0.1%	0.33	0.08	0.16	0.07	0.09	0.01	1.4%	0.28
22	04/10/18	WWF	1.53	30.00	0.63	0.08	0.15	0.06	0.11	0.01	1.3%	0.47	0.08	0.11	0.03	0.11	0.01	1.4%	0.24
23	04/15/18	WWF	1.25	18.25	0.93	0.08	0.12	0.04	0.06	0.00	0.5%	0.43	0.08	0.13	0.04	0.07	0.01	1.4%	0.28
24	05/13/18	WWF	2.74	39.50	1.01	0.08	0.11	0.03	0.13	0.00	0.0%	0.33	0.08	0.14	0.06	0.15	0.02	1.4%	0.25
25	05/20/18	WWF	1.95	19.50	1.22	0.08	0.10	0.02	0.07	0.00	0.1%	0.34	0.08	0.15	0.06	0.08	0.01	1.3%	0.25
26	05/21/18	WWF	1.51	23.25	0.76	0.08	0.10	0.02	0.08	0.00	0.2%	0.30	0.08	0.13	0.04	0.09	0.01	1.4%	0.24
27	05/30/18	WWF	0.97	23.00	0.59	0.08	0.13	0.05	0.09	0.01	3.0%	0.31	0.08	0.11	0.03	0.08	0.01	1.5%	0.24
28	06/25/18	WWF	0.53	14.75	0.51	0.07	0.11	0.02	0.05	0.00	-0.2%	0.32	0.08	0.11	0.02	0.05	0.00	1.3%	0.27
29	06/28/18	WWF	1.00	15.00	0.72	0.08	0.14	0.06	0.05	0.01	1.3%	0.31	0.08	0.12	0.03	0.06	0.01	1.3%	0.25
30	07/20/18	WWF	1.15	40.50	0.30	0.08	0.13	0.05	0.15	0.02	2.7%	0.34	0.08	0.10	0.02	0.14	0.01	1.4%	0.25
31	07/23/18	WWF	0.70	20.75	0.63	0.08	0.12	0.04	0.07	0.00	1.1%	0.33	0.08	0.10	0.03	0.07	0.00	1.4%	0.23
32	07/29/18	WWF	1.71	19.25	1.55	0.08	0.11	0.03	0.06	0.00	0.1%	0.48	0.07	0.15	0.07	0.07	0.01	1.4%	0.24
33	07/30/18	WWF	0.77	15.50	0.40	0.08	0.14	0.06	0.06	0.01	1.4%	0.43	0.08	0.10	0.02	0.06	0.00	1.3%	0.25
34	08/02/18	WWF	0.54	20.00	0.54	0.08	0.11	0.03	0.07	0.00	1.2%	0.37	0.07	0.10	0.03	0.06	0.00	1.4%	0.25
35	08/03/18	WWF	0.57	18.00	0.50	0.08	0.13	0.05	0.06	0.00	1.6%	0.45	0.07	0.11	0.03	0.06	0.00	1.4%	0.25
36	08/11/18	WWF	2.24	23.00	1.41	0.08	0.15	0.06	0.08	0.01	0.6%	0.43	0.07	0.15	0.08	0.09	0.02	1.4%	0.25
37	08/15/18	WWF	1.24	18.00	1.23	0.08	0.13	0.05	0.06	0.01	1.2%	0.40	0.07	0.14	0.06	0.06	0.01	1.4%	0.25
38	08/26/18	WWF	0.66	15.25	0.53	0.07	0.12	0.04	0.05	0.00	0.5%	0.33	0.07	0.11	0.03	0.05	0.00	1.3%	0.30
39	08/28/18	WWF	1.62	18.00	1.53	0.07	0.13	0.05	0.05	0.00	0.2%	0.38	0.07	0.16	0.07	0.07	0.01	1.4%	0.25
40	08/29/18	WWF	0.82	18.50	0.46	0.07	0.10	0.03	0.05	0.00	0.2%	0.31	0.07	0.11	0.03	0.06	0.01	1.4%	0.27
41	09/02/18	WWF	0.61	17.50	0.40	0.07	0.10	0.04	0.05	0.00	0.3%	0.30	0.07	0.10	0.03	0.05	0.00	1.4%	0.26
42	09/10/18	WWF	0.76	17.00	0.74	0.07	0.09	0.02	0.05	0.00	0.8%	0.34	0.07	0.11	0.03	0.05	0.01	1.4%	0.29
43	09/12/18	WWF	0.53	19.25	0.44	0.07	0.12	0.06	0.06	0.00	0.9%	0.3	0.07	0.09	0.02	0.06	0.00	1.4%	0.2
44	09/24/18	WWF	0.90	18.00	0.85	0.07	0.11	0.04	0.06	0.01	1.2%	0.3	0.07	0.12	0.04	0.06	0.01	1.4%	0.2
45	09/26/18	WWF	1.35	17.75	1.27	0.07	0.10	0.03	0.05	0.01	0.8%	0.3	0.07	0.12	0.06	0.06	0.01	1.4%	0.2
46	10/09/18	WWF	0.96	30.50	0.33	0.07	0.12	0.04	0.09	0.00	1.0%	0.3	0.07	0.09	0.02	0.09	0.01	1.4%	0.2

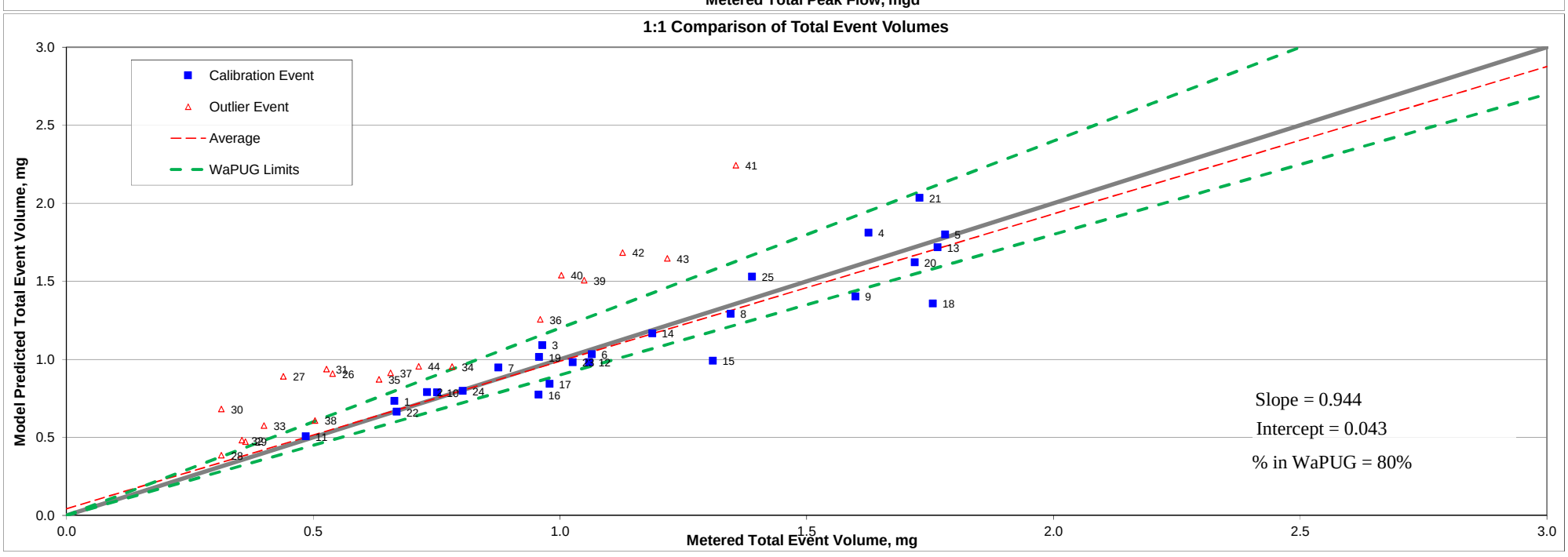




E3A2: Hydraulic Model Validation Results

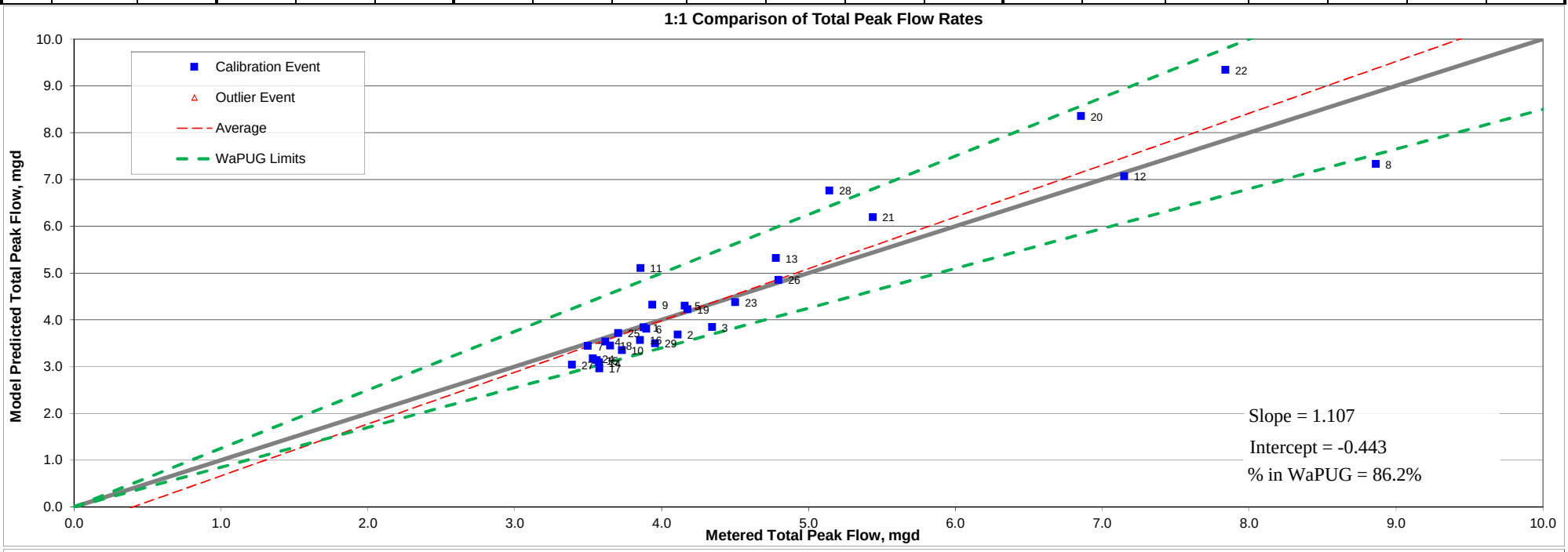
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	06/02/17	WWF	0.79	19.50	0.78	0.74	1.25	0.43	0.67	0.06	0.7%	0.00	0.73	1.25	0.40	0.73	0.14	1.6%	2.39
2	06/03/17	WWF	0.77	20.00	0.59	0.81	1.19	0.25	0.73	0.05	0.6%	0.00	0.77	1.18	0.35	0.79	0.15	1.7%	1.29
3	06/04/17	WWF	1.80	20.75	1.25	0.82	1.65	0.76	0.96	0.25	1.2%	0.00	0.78	1.96	1.12	1.09	0.42	2.0%	0.18
4	06/05/17	WWF	1.13	46.00	0.42	0.78	1.43	0.52	1.63	0.12	0.9%	0.00	0.75	1.32	0.51	1.81	0.37	2.8%	0.18
5	06/07/17	WWF	0.94	50.75	0.35	0.78	1.50	0.64	1.78	0.14	1.2%	0.00	0.74	1.23	0.42	1.80	0.24	2.2%	0.16
6	06/11/17	WWF	1.02	25.75	1.01	0.82	1.74	0.98	1.07	0.19	1.6%	0.00	0.75	1.37	0.53	1.03	0.23	1.9%	0.16
7	06/12/17	WWF	1.05	22.75	0.80	0.80	1.44	0.54	0.88	0.11	0.9%	0.00	0.74	1.34	0.62	0.95	0.24	2.0%	0.16
8	06/13/17	WWF	1.26	29.75	1.07	0.83	1.64	0.73	1.35	0.32	2.2%	0.00	0.77	1.54	0.79	1.29	0.34	2.3%	0.16
9	06/26/17	WWF	0.81	37.75	0.61	0.72	1.60	0.88	1.60	0.46	4.9%	0.00	0.77	1.21	0.40	1.40	0.18	2.0%	0.16
10	07/05/17	WWF	0.67	23.50	0.66	0.71	1.06	0.26	0.75	0.06	0.7%	0.00	0.68	1.00	0.33	0.79	0.12	1.5%	0.24
11	07/15/17	WWF	0.51	16.50	0.51	0.69	1.21	0.36	0.49	0.01	0.2%	0.00	0.64	0.86	0.20	0.51	0.07	1.1%	0.15
12	07/20/17	WWF	0.99	27.75	0.69	0.75	1.30	0.51	1.06	0.19	1.7%	0.00	0.69	1.16	0.42	0.98	0.18	1.6%	0.27
13	07/21/17	WWF	2.33	40.25	1.03	0.74	1.96	1.06	1.77	0.52	1.9%	0.00	0.68	1.97	1.21	1.72	0.58	2.1%	0.22
14	07/30/17	WWF	1.67	29.50	0.73	0.76	1.54	0.71	1.19	0.25	1.3%	0.00	0.70	1.51	0.74	1.17	0.31	1.6%	0.19
15	08/02/17	WWF	1.23	31.25	0.62	0.71	1.48	0.72	1.31	0.39	2.7%	0.00	0.60	1.33	0.61	0.99	0.21	1.5%	0.18
16	08/07/17	WWF	1.24	19.50	1.22	0.68	1.58	1.03	0.96	0.41	2.8%	0.00	0.59	1.93	1.50	0.77	0.29	2.0%	0.18
17	08/08/17	WWF	0.88	23.25	0.88	0.68	1.71	0.98	0.98	0.32	3.1%	0.00	0.61	1.60	0.88	0.84	0.25	2.5%	0.18
18	08/24/17	WWF	1.42	38.50	1.38	0.54	1.70	1.04	1.76	0.89	5.4%	0.00	0.60	1.53	0.80	1.36	0.39	2.4%	0.18
19	08/28/17	WWF	2.58	20.25	0.91	0.53	1.99	1.33	0.96	0.51	1.7%	0.00	0.60	1.90	1.26	1.02	0.51	1.7%	0.18
20	08/29/17	WWF	1.01	44.50	0.72	0.55	1.89	1.31	1.72	0.70	6.0%	0.00	0.61	1.90	1.24	1.62	0.48	4.1%	0.18
21	09/10/17	WWF	4.45	37.50	0.76	0.56	2.06	1.69	1.73	0.86	1.7%	0.00	0.57	3.70	3.22	2.03	1.14	2.2%	0.22
22	10/23/17	WWF	0.89	22.75	0.37	0.49	1.10	0.75	0.67	0.20	2.0%	0.00	0.54	1.02	0.40	0.66	0.15	1.5%	0.20
23	01/03/18	WWF	0.62	36.25	0.14	0.57	1.11	0.39	1.03	0.16	2.3%	0.00	0.57	0.89	0.23	0.98	0.12	1.6%	1.10
24	01/09/18	WWF	0.85	25.25	0.46	0.59	1.18	0.54	0.80	0.18	1.8%	0.00	0.59	0.93	0.42	0.80	0.17	1.7%	0.20
25	02/04/18	WWF	1.95	43.25	1.00	0.57	1.49	0.76	1.39	0.36	1.6%	0.00	0.58	2.18	1.51	1.53	0.49	2.2%	0.28
26	**05/21/18**	**WWF**	**1.51**	**23.00**	**0.76**	**0.48**	**0.78**	**0.42**	**0.54**	**0.08**	**0.4%**	**0.00**	**0.53**	**1.52**	**0.90**	**0.91**	**0.40**	**2.3%**	**0.24**
27	**07/29/18**	**WWF**	**1.71**	**18.50**	**1.55**	**0.49**	**0.92**	**0.33**	**0.44**	**0.06**	**0.3%**	**0.00**	**0.71**	**1.73**	**0.96**	**0.89**	**0.35**	**1.7%**	**0.24**
28	**08/02/18**	**WWF**	**0.54**	**13.75**	**0.54**	**0.39**	**0.71**	**0.38**	**0.31**	**0.09**	**1.5%**	**0.00**	**0.55**	**0.74**	**0.22**	**0.39**	**0.07**	**1.1%**	**0.25**
29	**08/03/18**	**WWF**	**0.58**	**15.75**	**0.50**	**0.39**	**1.00**	**0.53**	**0.36**	**0.11**	**1.6%**	**0.00**	**0.56**	**0.87**	**0.29**	**0.47**	**0.10**	**1.5%**	**0.25**
30	**08/11/18**	**WWF**	**2.19**	**14.00**	**1.41**	**0.48**	**1.53**	**0.94**	**0.31**	**0.03**	**0.1%**	**0.00**	**0.65**	**1.92**	**1.22**	**0.68**	**0.30**	**1.2%**	**0.25**
31	**08/28/18**	**WWF**	**1.62**	**22.75**	**1.53**	**0.44**	**0.93**	**0.46**	**0.53**	**0.11**	**0.6%**	**0.00**	**0.61**	**1.65**	**0.92**	**0.94**	**0.36**	**1.9%**	**0.25**
32	**09/06/18**	**WWF**	**0.68**	**16.25**	**0.41**	**0.48**	**0.66**	**0.13**	**0.36**	**0.03**	**0.4%**	**0.00**	**0.59**	**0.86**	**0.20**	**0.48**	**0.08**	**1.1%**	**0.24**
33	**09/10/18**	**WWF**	**0.76**	**18.00**	**0.74**	**0.46**	**0.75**	**0.30**	**0.40**	**0.06**	**0.6%**	**0.00**	**0.57**	**1.04**	**0.41**	**0.58**	**0.15**	**1.7%**	**0.29**
34	**09/12/18**	**WWF**	**0.53**	**38.00**	**0.44**	**0.43**	**0.70**	**0.43**	**0.78**	**0.10**	**1.6%**	**0.00**	**0.54**	**0.72**	**0.20**	**0.95**	**0.09**	**1.5%**	**0.25**
35	**09/24/18**	**WWF**	**0.94**	**28.50**	**0.85**	**0.46**	**0.69**	**0.28**	**0.63**	**0.09**	**0.8%**	**0.00**	**0.57**	**1.05**	**0.43**	**0.87**	**0.19**	**1.8%**	**0.27**
36	**09/26/18**	**WWF**	**1.35**	**40.25**	**1.27**	**0.43**	**0.74**	**0.33**	**0.96**	**0.24**	**1.5%**	**0.00**	**0.54**	**1.14**	**0.74**	**1.26**	**0.35**	**2.2%**	**0.25**
37	**10/09/18**	**WWF**	**0.97**	**32.25**	**0.33**	**0.46**	**0.74**	**0.29**	**0.66**	**0.04**	**0.3%**	**0.00**	**0.56**	**0.82**	**0.21**	**0.91**	**0.16**	**1.4%**	**0.25**
38	**11/02/18**	**WWF**	**0.74**	**22.25**	**0.60**	**0.43**	**0.77**	**0.38**	**0.50**	**0.11**	**1.2%**	**0.00**	**0.51**	**0.97**	**0.33**	**0.61**	**0.13**	**1.5%**	**0.26**
39	**12/09/18**	**WWF**	**1.87**	**47.00**	**1.57**	**0.46**	**0.96**	**0.46**	**1.05**	**0.14**	**0.7%**	**0.00**	**0.52**	**1.70**	**1.06**	**1.51**	**0.50**	**2.3%**	**0.28**
40	**12/14/18**	**WWF**	**2.43**	**41.75**	**0.72**	**0.48**	**0.90**	**0.51**	**1.00**	**0.17**	**0.6%**	**0.00**	**0.53**	**1.29**	**0.87**	**1.54**	**0.61**	**2.2%**	**0.26**
41	**12/19/18**	**WWF**	**4.23**	**51.50**	**1.30**	**0.45**	**1.06**	**0.58**	**1.36**	**0.38**	**0.8%**	**0.00**	**0.51**	**2.40**	**1.84**	**2.24**	**1.14**	**2.3%**	**1.26**
42	**01/27/19**	**WWF**	**1.88**	**47.75**	**0.29**	**0.46**	**1.05**	**0.55**	**1.13**	**0.21**	**1.0%**	**0.00**	**0.60**	**1.47**	**0.78**	**1.68**	**0.50**	**2.3%**	**0.27**
43	**02/26/19**	**WWF**	**1.82**	**49.25**	**0.58**	**0.45**	**1.16**	**0.64**	**1.22**	**0.28**	**1.3%**	**0.0**	**0.58**	**1.46**	**0.78**	**1.65**	**0.46**	**2.2%**	**0.6**
44	**03/04/19**	**WWF**	**1.07**	**33.25**	**0.91**	**0.43**	**1.08**	**0.64**	**0.71**	**0.12**	**1.0%**	**0.0**	**0.54**	**1.04**	**0.49**	**0.95**	**0.21**	**1.7%**	**0.3**

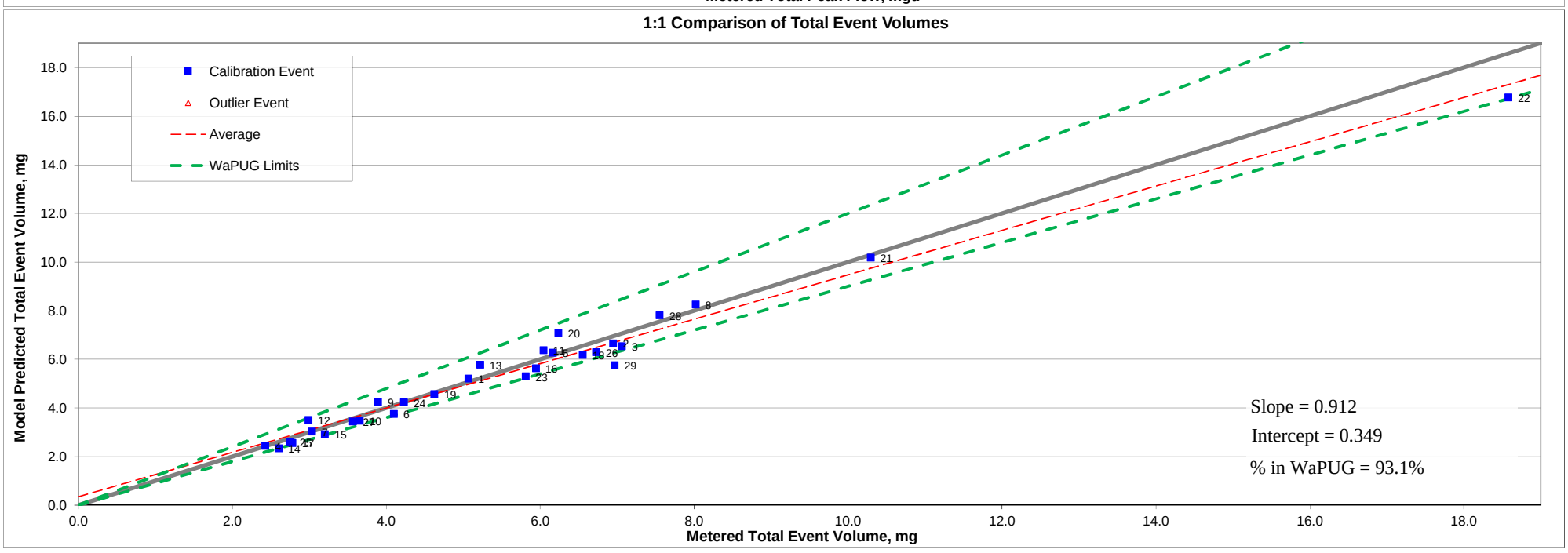




LS-58-W1: Hydraulic Model Validation Results

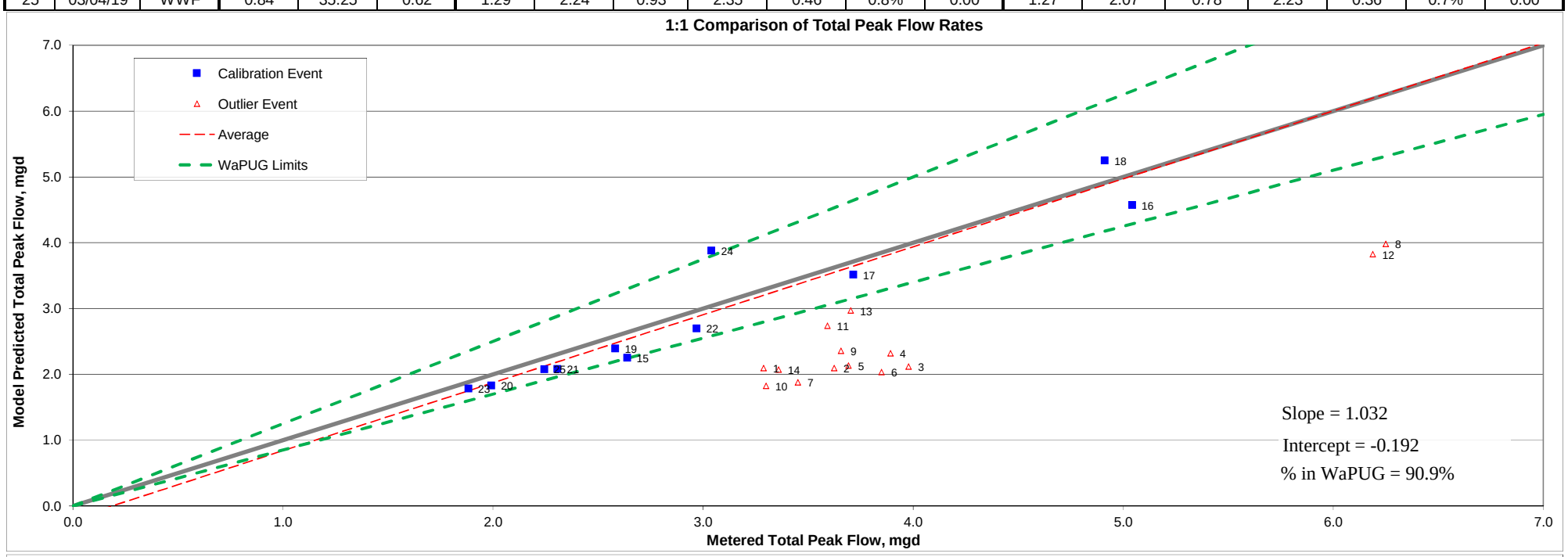
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	07/18/18	WWF	0.78	44.50	0.23	2.54	3.88	1.01	5.07	0.36	0.5%	0.00	2.52	3.84	0.93	5.20	0.53	0.7%	0.00
2	07/20/18	WWF	0.91	56.25	0.52	2.44	4.11	1.61	6.95	1.23	1.5%	0.00	2.50	3.68	1.32	6.65	0.79	0.9%	0.00
3	07/22/18	WWF	0.99	58.75	0.44	2.37	4.35	2.13	7.06	1.26	1.4%	0.00	2.35	3.84	1.46	6.53	0.77	0.9%	0.00
4	07/29/18	WWF	0.37	22.00	0.28	2.41	3.62	0.74	2.43	0.23	0.7%	0.00	2.44	3.53	0.62	2.44	0.20	0.6%	0.00
5	07/30/18	WWF	1.84	48.00	0.76	2.47	4.16	1.26	6.17	1.22	0.7%	0.00	2.44	4.30	1.89	6.26	1.39	0.8%	0.00
6	08/02/18	WWF	0.58	31.00	0.46	2.56	3.90	1.10	4.10	0.79	1.5%	0.00	2.52	3.81	1.03	3.75	0.49	0.9%	0.00
7	08/03/18	WWF	0.45	25.50	0.43	2.42	3.50	0.98	3.04	0.47	1.1%	0.00	2.48	3.44	0.97	3.02	0.39	0.9%	0.00
8	08/11/18	WWF	2.22	60.50	1.15	2.41	8.86	5.79	8.02	1.95	1.0%	0.00	2.45	7.33	4.28	8.25	2.07	1.0%	0.00
9	08/15/18	WWF	0.96	34.25	0.67	2.56	3.94	1.03	3.90	0.25	0.3%	0.00	2.53	4.32	1.41	4.24	0.62	0.7%	0.00
10	08/19/18	WWF	0.31	31.25	0.19	2.53	3.73	0.99	3.66	0.37	1.3%	0.00	2.55	3.35	0.24	3.46	0.15	0.5%	0.00
11	08/24/18	WWF	1.48	50.50	1.01	2.39	3.86	1.19	6.05	1.03	0.8%	0.00	2.45	5.10	2.32	6.37	1.20	0.9%	0.00
12	08/28/18	WWF	1.88	21.75	1.83	2.39	7.15	4.30	2.99	0.82	0.5%	0.00	2.39	7.07	4.15	3.50	1.33	0.8%	0.00
13	08/29/18	WWF	1.05	43.25	0.43	2.38	4.78	1.98	5.22	0.94	1.0%	0.00	2.39	5.31	2.39	5.77	1.46	1.5%	0.00
14	09/02/18	WWF	0.21	23.00	0.18	2.25	3.58	1.26	2.61	0.45	2.4%	0.00	2.30	3.09	0.38	2.33	0.13	0.7%	0.00
15	09/03/18	WWF	0.27	27.75	0.25	2.41	3.56	0.92	3.21	0.42	1.7%	0.00	2.36	3.13	0.46	2.91	0.18	0.7%	0.00
16	09/06/18	WWF	0.78	50.50	0.27	2.34	3.85	1.08	5.95	1.02	1.4%	0.00	2.33	3.57	0.88	5.62	0.71	1.0%	0.00
17	09/23/18	WWF	0.26	25.25	0.26	2.31	3.58	1.04	2.78	0.36	1.5%	0.00	2.30	2.96	0.40	2.55	0.13	0.5%	0.00
18	10/09/18	WWF	1.04	56.25	0.28	2.29	3.65	1.04	6.56	1.20	1.3%	0.00	2.29	3.45	0.83	6.17	0.79	0.8%	0.00
19	11/02/18	WWF	0.77	41.75	0.65	2.16	4.18	1.59	4.63	0.88	1.2%	0.00	2.23	4.22	1.59	4.56	0.68	1.0%	0.00
20	12/09/18	WWF	2.42	48.00	2.09	2.17	6.86	4.19	6.24	1.89	0.9%	0.00	2.40	8.35	5.21	7.08	2.28	1.0%	0.00
21	12/14/18	WWF	3.23	68.25	0.79	2.40	5.44	2.63	10.30	3.48	1.2%	0.00	2.46	6.19	3.53	10.17	3.17	1.1%	0.00
22	12/19/18	WWF	4.73	119.00	1.51	2.61	7.84	5.44	18.58	5.66	1.3%	0.00	2.41	9.34	6.70	16.77	4.84	1.1%	0.00
23	01/04/19	WWF	0.85	48.50	0.59	2.28	4.50	1.70	5.82	1.21	1.6%	0.00	2.25	4.37	1.73	5.29	0.74	1.0%	0.00
24	01/19/19	WWF	0.43	43.00	0.25	2.11	3.53	0.90	4.23	0.46	1.2%	0.00	2.19	3.17	0.72	4.22	0.30	0.8%	0.00
25	01/24/19	WWF	0.64	23.25	0.46	2.27	3.71	1.37	2.75	0.55	0.9%	0.00	2.26	3.72	1.24	2.60	0.41	0.7%	0.00
26	01/27/19	WWF	1.71	52.50	0.27	2.12	4.80	2.28	6.73	2.08	1.3%	0.00	2.16	4.85	2.25	6.28	1.56	1.0%	0.00
27	02/12/19	WWF	0.55	36.00	0.37	2.09	3.39	1.05	3.57	0.43	0.9%	0.00	2.04	3.04	0.61	3.43	0.37	0.7%	0.00
28	02/26/19	WWF	3.08	52.75	0.87	2.11	5.14	2.71	7.55	2.92	1.0%	0.00	2.21	6.76	4.26	7.80	2.94	1.0%	0.00
29	03/04/19	WWF	0.84	58.50	0.62	2.06	3.96	2.12	6.97	1.96	2.5%	0.00	2.10	3.49	1.42	5.75	0.64	0.8%	0.00

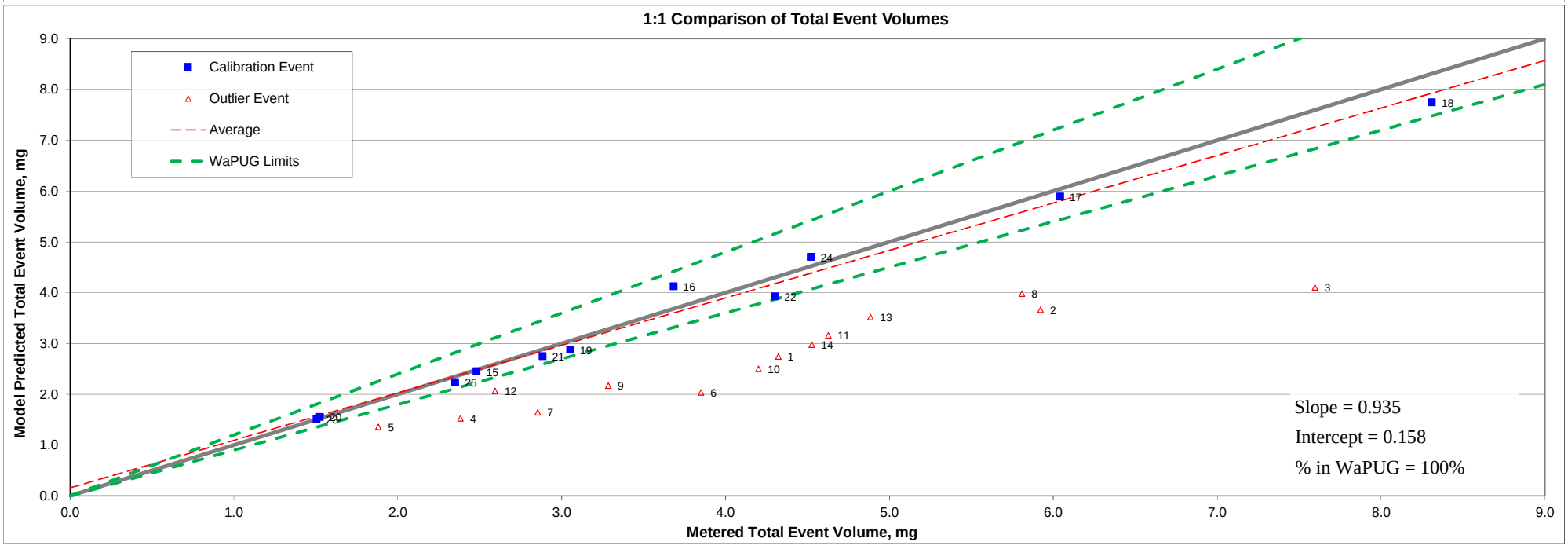




LS-58-W2: Hydraulic Model Validation Results

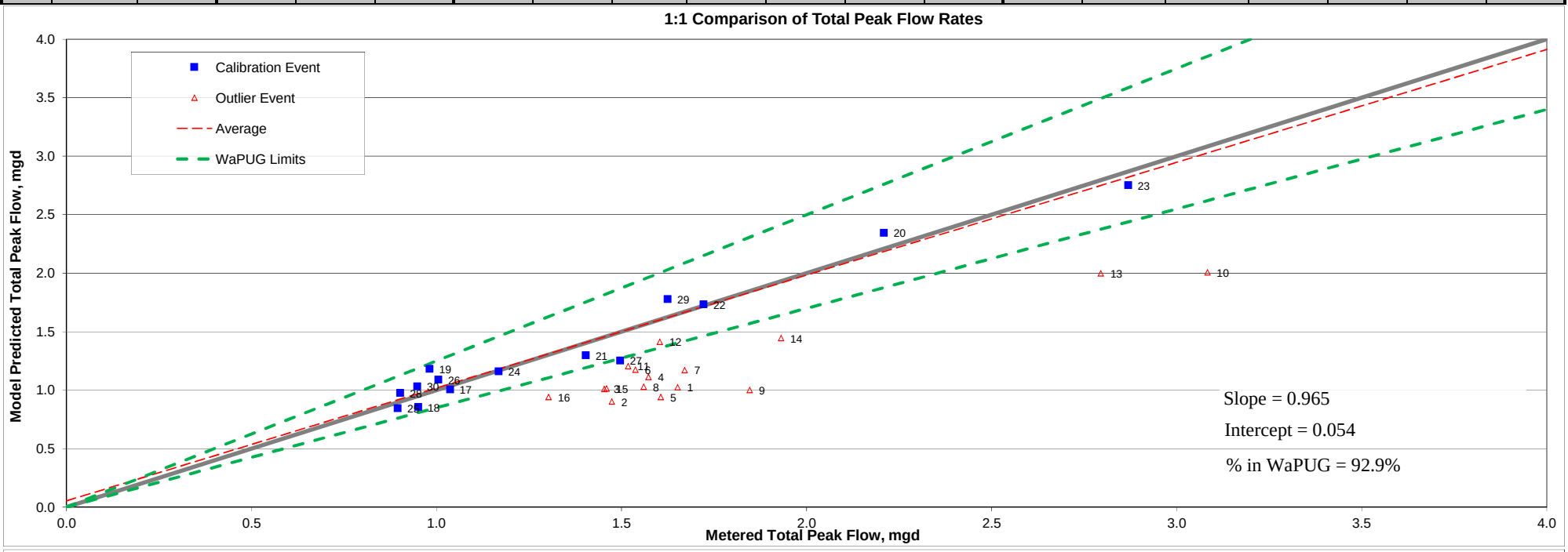
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	07/18/18	WWF	0.78	42.00	0.23	1.37	3.29	1.73	4.32	1.92	3.8%	0.00	1.37	2.10	0.54	2.74	0.35	0.7%	0.00
2	07/20/18	WWF	0.91	56.25	0.52	1.33	3.62	2.07	5.92	2.81	4.8%	0.00	1.35	2.09	0.75	3.66	0.51	0.9%	0.00
3	07/22/18	WWF	0.99	67.25	0.44	1.29	3.98	2.41	7.60	4.00	6.2%	0.00	1.29	2.12	0.81	4.10	0.49	0.8%	0.00
4	07/30/18	WWF	0.81	21.50	0.67	1.28	3.89	2.36	2.38	1.24	2.4%	0.00	1.28	2.32	0.83	1.53	0.38	0.7%	0.00
5	07/31/18	WWF	0.79	18.00	0.76	1.24	3.69	2.08	1.88	0.95	1.9%	0.00	1.24	2.13	1.08	1.36	0.42	0.8%	0.00
6	08/02/18	WWF	0.58	31.00	0.46	1.35	3.85	2.35	3.85	2.11	5.6%	0.00	1.35	2.03	0.58	2.03	0.29	0.8%	0.00
7	08/03/18	WWF	0.45	25.25	0.43	1.31	3.45	2.13	2.85	1.48	5.1%	0.00	1.33	1.88	0.55	1.64	0.24	0.8%	0.00
8	08/11/18	WWF	2.22	49.50	1.15	1.26	6.25	4.60	5.81	3.21	2.2%	0.00	1.29	3.98	2.33	3.98	1.33	0.9%	0.00
9	08/15/18	WWF	0.95	31.50	0.67	1.35	3.66	2.08	3.28	1.51	2.5%	0.00	1.35	2.36	0.78	2.17	0.39	0.6%	0.00
10	08/19/18	WWF	0.31	42.50	0.19	1.33	3.30	1.80	4.20	1.85	9.2%	0.00	1.35	1.83	0.15	2.50	0.11	0.5%	0.00
11	08/24/18	WWF	1.48	44.50	1.01	1.27	3.59	2.10	4.63	2.27	2.4%	0.00	1.29	2.74	1.27	3.16	0.76	0.8%	0.00
12	08/28/18	WWF	1.88	22.25	1.83	1.29	6.19	4.66	2.59	1.40	1.1%	0.00	1.29	3.82	2.26	2.06	0.87	0.7%	0.00
13	08/29/18	WWF	1.05	47.00	0.43	1.30	3.70	2.14	4.88	2.34	3.4%	0.00	1.30	2.97	1.40	3.52	0.97	1.4%	0.00
14	09/05/18	WWF	1.00	46.25	0.36	1.30	3.36	1.78	4.53	2.02	3.1%	0.00	1.30	2.07	0.56	2.98	0.47	0.7%	0.00
15	11/02/18	WWF	0.77	42.25	0.65	1.21	2.64	1.25	2.48	0.35	0.7%	0.00	1.12	2.25	0.93	2.45	0.48	1.0%	0.00
16	12/09/18	WWF	2.42	46.50	2.09	1.22	5.04	3.59	3.68	1.32	0.8%	0.00	1.35	4.57	2.82	4.12	1.51	1.0%	0.00
17	12/14/18	WWF	3.23	66.50	0.79	1.43	3.72	2.00	6.04	2.09	1.0%	0.00	1.37	3.51	2.04	5.89	2.08	1.0%	0.00
18	12/19/18	WWF	4.73	82.50	1.51	1.44	4.91	3.30	8.31	3.35	1.1%	0.00	1.36	5.25	3.67	7.74	3.05	1.0%	0.00
19	01/04/19	WWF	0.85	46.50	0.59	1.16	2.58	1.27	3.05	0.80	1.4%	0.00	1.23	2.39	0.95	2.88	0.50	0.9%	0.00
20	01/19/19	WWF	0.43	26.75	0.25	1.22	1.99	0.59	1.53	0.17	0.6%	0.00	1.24	1.83	0.41	1.55	0.17	0.6%	0.00
21	01/24/19	WWF	0.64	45.75	0.46	1.28	2.31	0.88	2.88	0.45	1.1%	0.00	1.26	2.08	0.67	2.75	0.35	0.9%	0.00
22	01/27/19	WWF	1.71	57.00	0.27	1.17	2.97	1.63	4.30	1.51	1.4%	0.00	1.21	2.69	1.28	3.93	1.06	1.0%	0.00
23	02/12/19	WWF	0.55	25.50	0.37	1.21	1.88	0.53	1.51	0.22	0.6%	0.00	1.23	1.78	0.35	1.52	0.21	0.6%	0.00
24	02/26/19	WWF	3.08	53.00	0.87	1.32	3.04	1.61	4.52	1.60	0.8%	0.00	1.24	3.88	2.41	4.70	1.96	1.0%	0.00
25	03/04/19	WWF	0.84	35.25	0.62	1.29	2.24	0.93	2.35	0.46	0.8%	0.00	1.27	2.07	0.78	2.23	0.36	0.7%	0.00

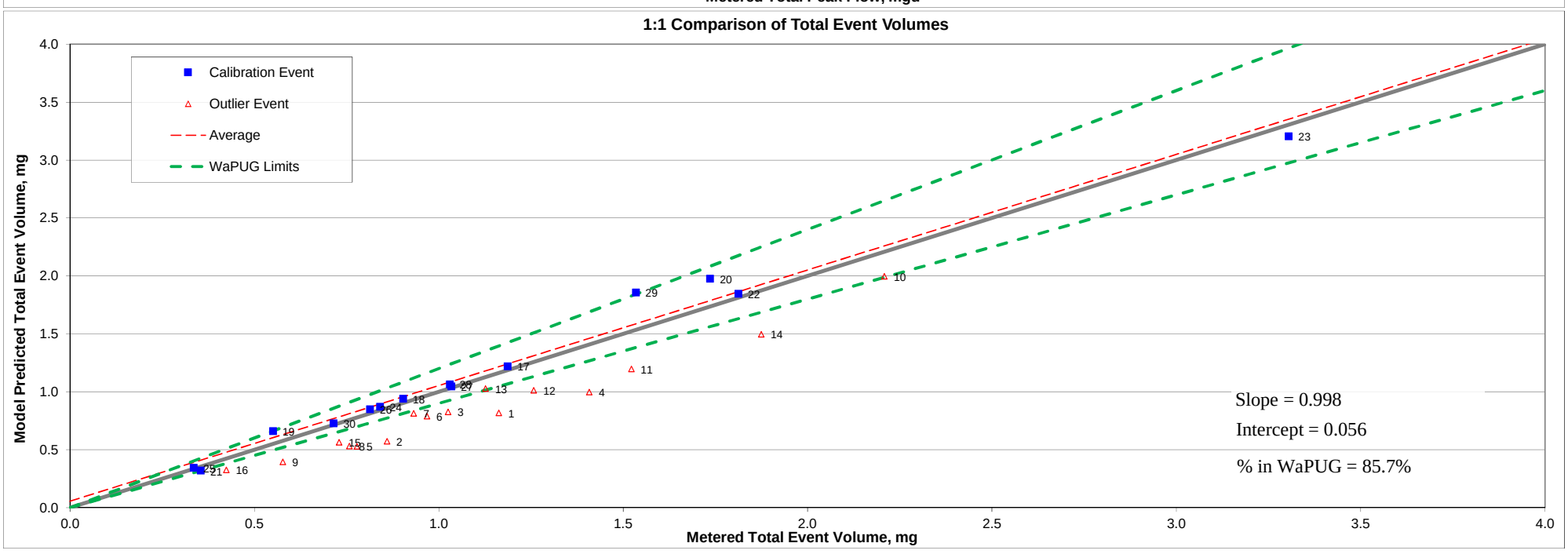




LS-58-W3: Hydraulic Model Validation Results

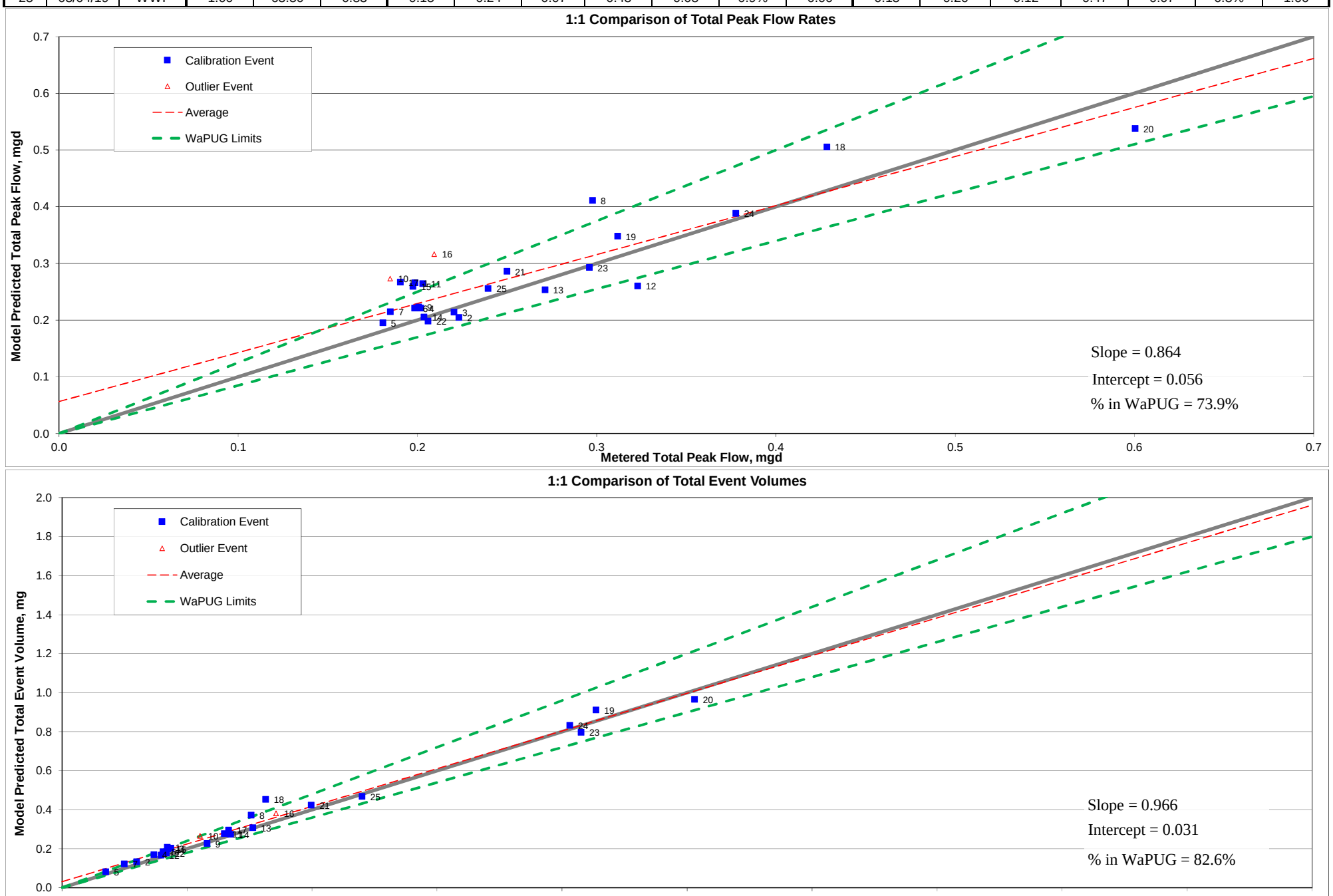
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	07/18/18	WWF	0.65	24.50	0.23	0.68	1.65	0.93	1.16	0.47	1.9%	0.00	0.69	1.02	0.28	0.82	0.11	0.5%	0.00
2	07/20/18	WWF	0.38	16.75	0.15	0.73	1.47	0.74	0.86	0.35	2.4%	0.00	0.74	0.90	0.14	0.57	0.06	0.4%	0.00
3	07/21/18	WWF	0.53	23.50	0.52	0.67	1.45	0.72	1.03	0.37	1.8%	0.00	0.69	1.01	0.39	0.83	0.15	0.7%	0.00
4	07/22/18	WWF	0.81	29.25	0.44	0.67	1.57	0.85	1.41	0.59	1.9%	0.00	0.68	1.11	0.40	1.00	0.17	0.5%	0.00
5	07/29/18	WWF	0.37	15.75	0.28	0.70	1.61	0.88	0.78	0.32	2.2%	0.00	0.72	0.94	0.19	0.53	0.05	0.4%	0.00
6	07/30/18	WWF	0.81	21.75	0.67	0.67	1.54	0.81	0.97	0.36	1.2%	0.00	0.67	1.18	0.45	0.79	0.18	0.6%	0.00
7	07/31/18	WWF	0.79	21.25	0.76	0.67	1.67	0.98	0.93	0.33	1.1%	0.00	0.68	1.17	0.58	0.81	0.21	0.7%	0.00
8	08/02/18	WWF	0.58	15.00	0.46	0.69	1.56	0.83	0.76	0.32	1.5%	0.00	0.70	1.03	0.31	0.53	0.09	0.4%	0.00
9	08/03/18	WWF	0.45	12.50	0.43	0.59	1.85	1.11	0.58	0.27	1.6%	0.00	0.61	1.00	0.30	0.39	0.08	0.5%	0.00
10	08/11/18	WWF	2.22	48.75	1.15	0.67	3.08	2.31	2.21	0.86	1.0%	0.00	0.69	2.01	1.23	2.00	0.60	0.7%	0.00
11	08/15/18	WWF	0.95	34.50	0.67	0.69	1.52	0.74	1.52	0.53	1.5%	0.00	0.69	1.20	0.43	1.20	0.20	0.6%	0.00
12	08/24/18	WWF	1.10	26.75	1.01	0.67	1.60	0.87	1.26	0.51	1.2%	0.00	0.69	1.41	0.69	1.01	0.25	0.6%	0.00
13	08/28/18	WWF	1.88	22.00	1.83	0.68	2.80	2.07	1.13	0.50	0.7%	0.00	0.69	2.00	1.23	1.03	0.40	0.6%	0.00
14	08/29/18	WWF	1.05	38.00	0.43	0.68	1.93	1.20	1.87	0.80	2.0%	0.00	0.68	1.45	0.70	1.50	0.42	1.0%	0.00
15	09/06/18	WWF	0.60	16.00	0.27	0.68	1.46	0.75	0.73	0.28	1.2%	0.00	0.68	1.01	0.28	0.56	0.11	0.5%	0.00
16	09/20/18	WWF	0.44	9.25	0.37	0.73	1.30	0.55	0.42	0.14	0.9%	0.00	0.73	0.94	0.21	0.32	0.04	0.3%	0.00
17	10/09/18	WWF	0.94	41.00	0.28	0.59	1.04	0.46	1.19	0.18	0.5%	0.00	0.58	1.01	0.25	1.22	0.22	0.6%	0.00
18	10/26/18	WWF	0.49	33.00	0.32	0.58	0.95	0.33	0.90	0.11	0.6%	0.00	0.61	0.86	0.24	0.94	0.10	0.5%	0.00
19	11/02/18	WWF	0.94	20.00	0.80	0.54	0.98	0.38	0.55	0.10	0.3%	0.00	0.57	1.18	0.54	0.66	0.18	0.5%	0.00
20	12/09/18	WWF	2.42	46.75	2.09	0.64	2.21	1.44	1.74	0.49	0.5%	0.00	0.66	2.34	1.56	1.98	0.69	0.7%	0.00
21	12/14/18	WWF	0.96	7.50	0.66	0.75	1.40	0.71	0.35	0.12	0.3%	0.00	0.76	1.30	0.57	0.32	0.08	0.2%	0.00
22	12/14/18	WWF	2.27	40.00	0.79	0.59	1.72	1.00	1.81	0.82	0.9%	0.00	0.64	1.73	1.03	1.84	0.78	0.9%	0.00
23	12/19/18	WWF	4.73	68.00	1.51	0.62	2.87	2.24	3.31	1.56	0.9%	0.00	0.65	2.75	1.97	3.20	1.37	0.8%	0.00
24	01/04/19	WWF	0.85	26.50	0.59	0.61	1.17	0.52	0.84	0.17	0.5%	0.00	0.62	1.16	0.50	0.87	0.19	0.6%	0.00
25	01/19/19	WWF	0.43	12.75	0.25	0.51	0.90	0.26	0.34	0.07	0.4%	0.00	0.55	0.84	0.22	0.34	0.05	0.3%	0.00
26	01/24/19	WWF	0.64	28.25	0.46	0.59	1.01	0.31	0.81	0.11	0.5%	0.00	0.60	1.09	0.35	0.85	0.14	0.6%	0.00
27	01/27/19	WWF	1.71	28.75	0.27	0.58	1.50	0.83	1.03	0.34	0.5%	0.00	0.59	1.25	0.58	1.04	0.33	0.5%	0.00
28	02/12/19	WWF	0.55	36.25	0.37	0.62	0.90	0.31	1.03	0.10	0.5%	0.00	0.62	0.97	0.20	1.06	0.12	0.6%	0.00
29	02/26/19	WWF	3.08	38.00	0.87	0.66	1.63	0.93	1.54	0.49	0.4%	0.00	0.66	1.78	1.10	1.85	0.81	0.7%	0.00
30	03/04/19	WWF	0.66	22.50	0.62	0.63	0.95	0.33	0.72	0.13	0.5%	0.00	0.64	1.03	0.41	0.73	0.13	0.5%	0.00





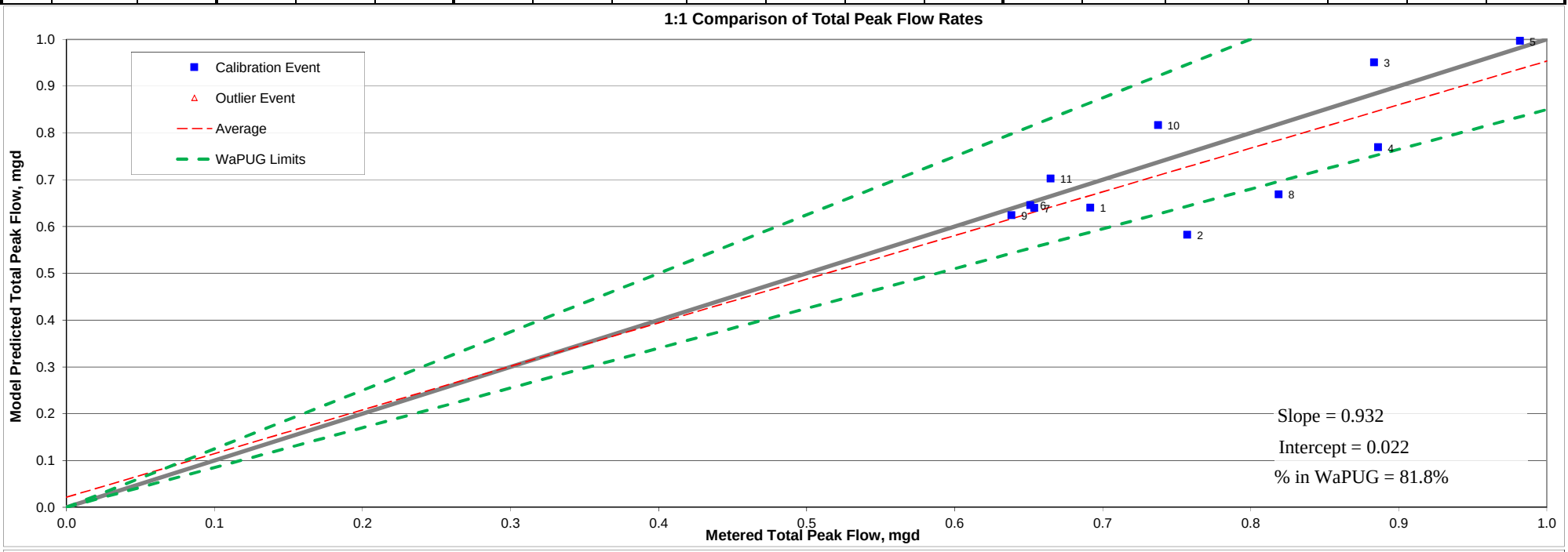
LS58E: Hydraulic Model Validation Results

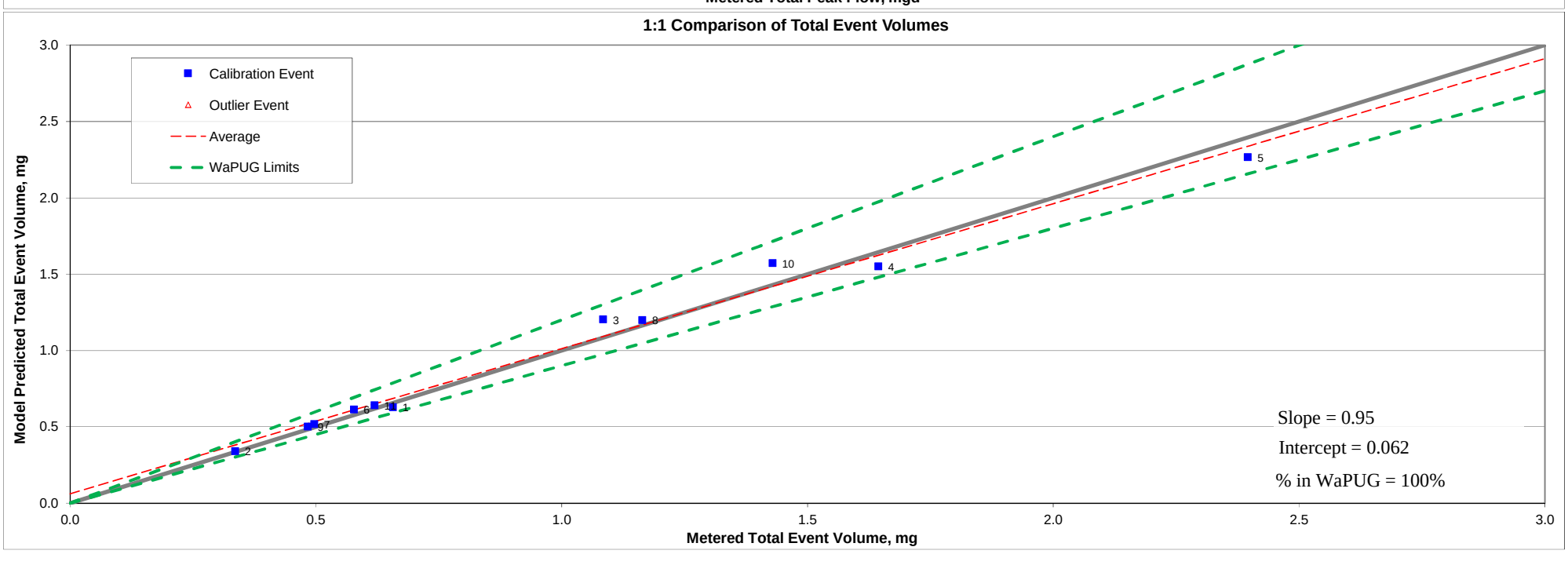
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	07/18/18	WWF	1.33	26.25	0.58	0.14	0.20	0.04	0.17	0.01	0.1%	0.00	0.14	0.27	0.11	0.21	0.06	0.5%	0.18
2	07/20/18	WWF	0.38	17.50	0.15	0.15	0.22	0.07	0.12	0.01	0.4%	0.00	0.15	0.20	0.05	0.13	0.03	0.8%	0.17
3	07/21/18	WWF	0.53	27.50	0.52	0.13	0.22	0.05	0.17	0.02	0.5%	0.00	0.13	0.21	0.10	0.20	0.05	1.1%	0.15
4	07/22/18	WWF	0.84	22.75	0.44	0.14	0.20	0.05	0.15	0.02	0.3%	0.00	0.14	0.22	0.10	0.17	0.04	0.5%	0.16
5	07/31/18	WWF	0.57	12.25	0.38	0.13	0.18	0.03	0.07	0.01	0.1%	0.00	0.13	0.20	0.08	0.08	0.02	0.4%	0.19
6	08/01/18	WWF	0.51	25.00	0.29	0.14	0.20	0.04	0.16	0.02	0.4%	0.00	0.14	0.22	0.07	0.18	0.04	0.9%	0.17
7	08/03/18	WWF	0.48	17.50	0.35	0.13	0.19	0.02	0.10	0.00	0.1%	0.00	0.13	0.21	0.07	0.12	0.02	0.6%	0.16
8	08/11/18	WWF	1.85	43.00	1.31	0.14	0.30	0.13	0.30	0.05	0.3%	0.00	0.14	0.41	0.25	0.37	0.12	0.7%	0.16
9	08/15/18	WWF	0.63	34.50	0.52	0.14	0.20	0.04	0.23	0.03	0.6%	0.00	0.14	0.22	0.07	0.23	0.03	0.5%	0.16
10	**08/19/18**	**WWF**	**1.03**	**36.75**	**0.87**	**0.14**	**0.18**	**0.05**	**0.22**	**0.01**	**0.1%**	**0.00**	**0.13**	**0.27**	**0.12**	**0.27**	**0.06**	**0.7%**	**1.06**
11	08/26/18	WWF	0.75	39.25	0.70	0.13	0.20	0.05	0.26	0.04	0.7%	0.00	0.14	0.26	0.11	0.28	0.05	0.8%	0.16
12	08/28/18	WWF	0.69	22.25	0.62	0.13	0.32	0.18	0.16	0.04	0.6%	0.00	0.14	0.26	0.10	0.17	0.04	0.7%	0.16
13	08/29/18	WWF	0.77	41.25	0.38	0.13	0.27	0.12	0.31	0.08	1.2%	0.00	0.14	0.25	0.10	0.31	0.07	1.1%	0.47
14	09/06/18	WWF	0.62	41.50	0.24	0.13	0.20	0.06	0.27	0.04	0.8%	0.00	0.13	0.21	0.06	0.27	0.04	0.8%	0.18
15	09/09/18	WWF	0.99	26.50	0.46	0.14	0.20	0.05	0.17	0.02	0.2%	0.00	0.14	0.26	0.11	0.20	0.05	0.5%	0.39
16	**09/26/18**	**WWF**	**1.42**	**49.75**	**1.41**	**0.13**	**0.21**	**0.06**	**0.34**	**0.07**	**0.5%**	**0.00**	**0.13**	**0.32**	**0.21**	**0.38**	**0.10**	**0.8%**	**0.18**
17	11/02/18	WWF	0.95	41.75	0.80	0.14	0.19	0.04	0.27	0.03	0.4%	0.00	0.14	0.27	0.12	0.30	0.06	0.7%	0.18
18	12/09/18	WWF	2.24	47.00	1.92	0.14	0.43	0.26	0.33	0.05	0.2%	0.00	0.15	0.50	0.32	0.45	0.16	0.8%	0.97
19	12/14/18	WWF	2.74	103.75	0.85	0.15	0.31	0.15	0.85	0.21	0.9%	0.00	0.15	0.35	0.19	0.91	0.25	1.1%	2.28
20	12/19/18	WWF	4.30	92.75	1.30	0.16	0.60	0.44	1.01	0.39	1.0%	0.00	0.15	0.54	0.38	0.97	0.39	1.0%	2.38
21	01/04/19	WWF	0.97	56.50	0.71	0.15	0.25	0.10	0.40	0.05	0.6%	0.00	0.15	0.29	0.13	0.42	0.07	0.8%	0.21
22	01/24/19	WWF	0.54	26.00	0.30	0.15	0.21	0.04	0.17	0.01	0.2%	0.00	0.15	0.20	0.04	0.18	0.02	0.4%	0.21
23	01/27/19	WWF	1.74	104.25	0.25	0.14	0.30	0.14	0.83	0.20	1.3%	0.00	0.15	0.29	0.13	0.80	0.16	1.1%	0.21
24	02/26/19	WWF	2.90	92.75	0.85	0.15	0.38	0.21	0.81	0.24	1.0%	0.00	0.15	0.39	0.23	0.83	0.27	1.1%	1.05
25	03/04/19	WWF	1.00	63.50	0.83	0.15	0.24	0.07	0.48	0.08	0.9%	0.00	0.15	0.26	0.12	0.47	0.07	0.8%	1.06



LS46: Hydraulic Model Validation Results

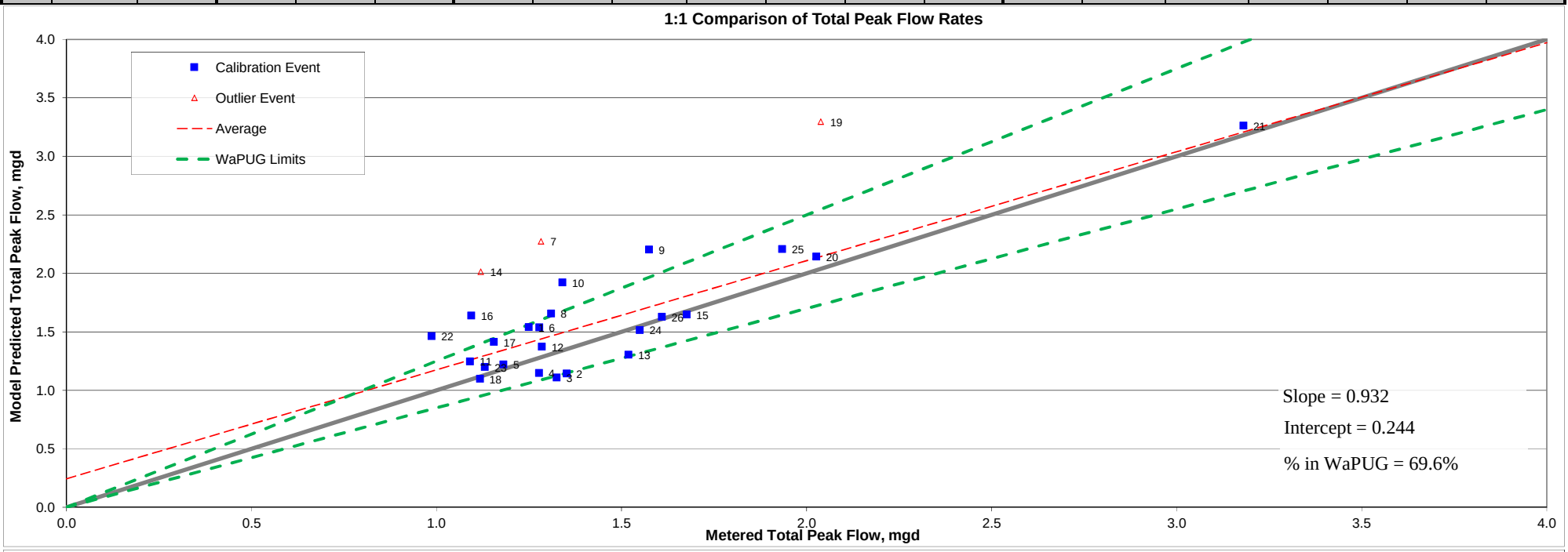
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	11/02/18	WWF	0.70	29.25	0.55	0.47	0.69	0.19	0.66	0.09	1.0%	0.00	0.46	0.64	0.13	0.63	0.07	0.7%	0.18
2	12/04/18	WWF	0.54	17.25	0.53	0.40	0.76	0.32	0.34	0.05	0.7%	0.00	0.43	0.58	0.10	0.34	0.03	0.5%	0.21
3	12/09/18	WWF	2.56	49.00	1.99	0.44	0.88	0.33	1.08	0.18	0.5%	0.00	0.44	0.95	0.39	1.20	0.29	0.9%	0.97
4	12/14/18	WWF	2.79	64.25	0.79	0.47	0.89	0.36	1.64	0.38	1.0%	0.00	0.46	0.77	0.29	1.55	0.33	0.9%	0.21
5	12/19/18	WWF	4.69	93.25	1.56	0.45	0.98	0.55	2.40	0.63	1.0%	0.00	0.44	1.00	0.47	2.27	0.56	0.9%	2.38
6	01/04/19	WWF	0.74	28.50	0.50	0.45	0.65	0.16	0.58	0.04	0.4%	0.00	0.46	0.65	0.13	0.61	0.06	0.7%	0.21
7	01/24/19	WWF	0.60	25.50	0.42	0.37	0.65	0.21	0.50	0.10	1.3%	0.00	0.44	0.64	0.10	0.52	0.05	0.6%	0.21
8	01/27/19	WWF	1.57	55.25	0.23	0.45	0.82	0.30	1.16	0.12	0.6%	0.00	0.44	0.67	0.17	1.20	0.18	0.9%	0.21
9	02/12/19	WWF	0.64	23.25	0.49	0.47	0.64	0.18	0.48	0.03	0.3%	0.00	0.47	0.62	0.09	0.50	0.05	0.6%	0.20
10	02/26/19	WWF	2.72	62.50	0.91	0.51	0.74	0.21	1.43	0.11	0.3%	0.00	0.48	0.82	0.30	1.57	0.32	0.9%	0.31
11	03/04/19	WWF	1.11	29.00	1.06	0.47	0.67	0.17	0.62	0.05	0.3%	0.00	0.45	0.70	0.21	0.64	0.10	0.7%	0.26

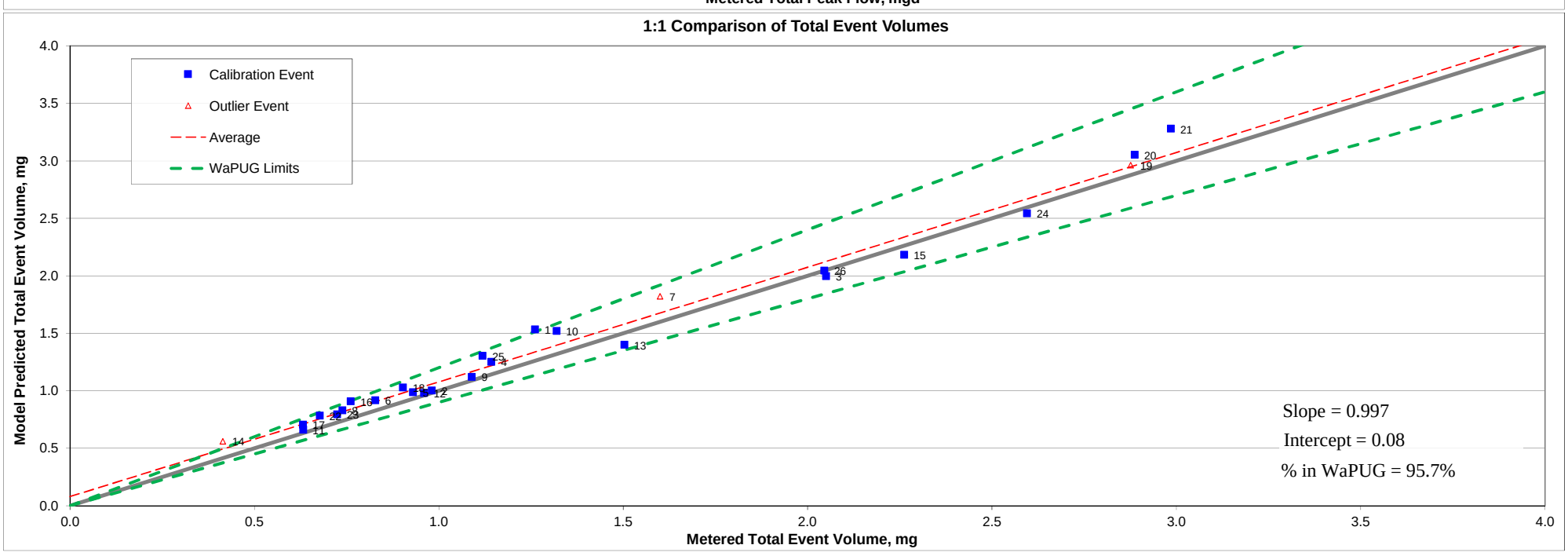




LS42: Hydraulic Model Validation Results

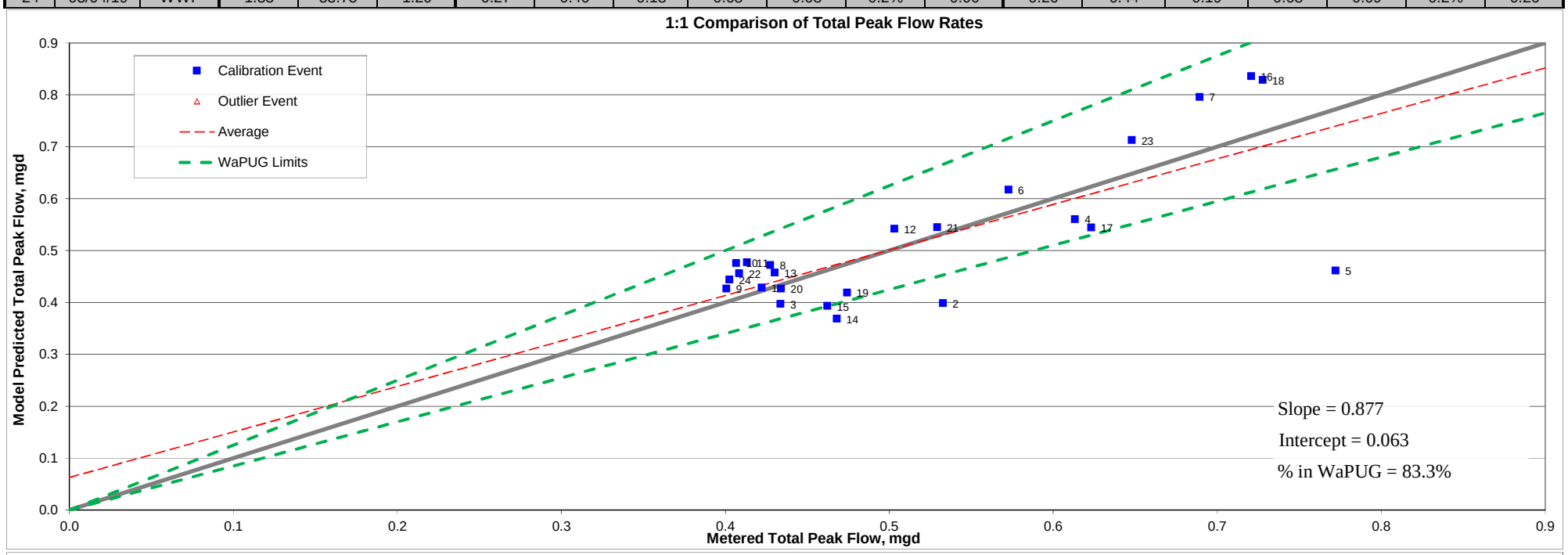
Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	07/18/18	WWF	1.46	35.00	0.58	0.84	1.25	0.40	1.26	0.04	0.1%	0.00	0.84	1.54	0.66	1.53	0.31	0.6%	0.18
2	07/21/18	WWF	0.53	26.25	0.52	0.81	1.35	0.44	0.98	0.09	0.5%	0.00	0.79	1.14	0.53	1.00	0.14	0.8%	0.15
3	07/22/18	WWF	0.99	53.00	0.44	0.85	1.33	0.47	2.05	0.17	0.5%	0.00	0.80	1.11	0.51	2.00	0.22	0.6%	0.16
4	07/31/18	WWF	0.73	34.00	0.38	0.76	1.28	0.36	1.14	0.07	0.3%	0.00	0.76	1.15	0.48	1.25	0.17	0.7%	0.19
5	08/02/18	WWF	0.68	25.25	0.36	0.81	1.18	0.45	0.93	0.07	0.3%	0.00	0.81	1.22	0.34	0.99	0.13	0.6%	0.16
6	08/03/18	WWF	0.64	22.75	0.60	0.81	1.28	0.27	0.83	0.06	0.3%	0.00	0.81	1.54	0.59	0.92	0.15	0.7%	0.16
7	**08/11/18**	**WWF**	**1.85**	**37.50**	**1.01**	**0.87**	**1.28**	**0.52**	**1.60**	**0.24**	**0.4%**	**0.00**	**0.86**	**2.27**	**1.25**	**1.82**	**0.47**	**0.7%**	**0.16**
8	08/24/18	WWF	0.86	21.00	0.84	0.74	1.31	0.43	0.74	0.09	0.3%	0.00	0.77	1.65	0.76	0.83	0.16	0.5%	0.16
9	08/25/18	WWF	1.48	23.75	1.15	0.78	1.58	0.97	1.09	0.32	0.6%	0.00	0.80	2.20	1.24	1.12	0.32	0.6%	0.16
10	08/26/18	WWF	0.94	35.50	0.88	0.80	1.34	0.59	1.32	0.14	0.4%	0.00	0.81	1.92	0.96	1.52	0.31	1.0%	0.16
11	08/29/18	WWF	0.53	17.75	0.22	0.77	1.09	0.37	0.63	0.07	0.4%	0.00	0.76	1.24	0.28	0.66	0.10	0.5%	0.29
12	08/30/18	WWF	0.52	25.00	0.48	0.82	1.29	0.76	0.96	0.10	0.6%	0.00	0.81	1.37	0.49	0.98	0.13	0.7%	1.27
13	08/31/18	WWF	0.64	35.25	0.34	0.83	1.52	0.57	1.50	0.28	1.3%	0.00	0.85	1.30	0.36	1.40	0.15	0.7%	1.62
14	**09/05/18**	**WWF**	**1.07**	**11.75**	**1.00**	**0.87**	**1.12**	**0.23**	**0.41**	**-0.01**	**0.0%**	**0.00**	**0.87**	**2.01**	**0.97**	**0.56**	**0.14**	**0.4%**	**0.18**
15	09/06/18	WWF	1.49	49.25	0.43	0.86	1.68	0.65	2.26	0.49	0.9%	0.00	0.85	1.65	0.64	2.18	0.43	0.8%	0.18
16	09/09/18	WWF	0.64	22.00	0.63	0.89	1.09	0.19	0.76	-0.05	-0.2%	0.00	0.86	1.64	0.57	0.91	0.12	0.5%	0.28
17	11/02/18	WWF	0.70	18.75	0.55	0.66	1.16	0.38	0.63	0.12	0.5%	0.00	0.73	1.41	0.55	0.70	0.13	0.5%	0.18
18	12/04/18	WWF	0.54	26.50	0.53	0.83	1.12	0.25	0.90	-0.02	-0.1%	0.00	0.84	1.10	0.45	1.03	0.10	0.5%	0.21
19	**12/09/18**	**WWF**	**2.56**	**62.25**	**1.99**	**0.90**	**2.04**	**1.07**	**2.88**	**0.54**	**0.6%**	**0.00**	**0.89**	**3.30**	**2.24**	**2.96**	**0.67**	**0.7%**	**0.97**
20	12/14/18	WWF	2.14	67.50	0.79	0.84	2.03	1.36	2.89	0.52	0.7%	0.00	0.85	2.14	1.13	3.05	0.65	0.9%	0.21
21	12/19/18	WWF	4.69	57.75	1.56	0.83	3.18	2.24	2.99	0.98	0.6%	0.00	0.88	3.26	2.40	3.28	1.16	0.7%	2.38
22	01/04/19	WWF	0.74	20.00	0.50	0.77	0.99	0.30	0.68	0.03	0.1%	0.00	0.78	1.46	0.56	0.78	0.13	0.5%	0.21
23	01/24/19	WWF	0.60	19.00	0.42	0.90	1.13	0.16	0.73	0.01	0.0%	0.00	0.88	1.20	0.40	0.79	0.10	0.5%	0.21
24	01/27/19	WWF	1.57	62.25	0.23	0.85	1.55	0.54	2.60	0.38	0.7%	0.00	0.83	1.51	0.53	2.54	0.40	0.7%	0.21
25	02/26/19	WWF	2.65	23.00	0.91	0.81	1.93	1.08	1.12	0.35	0.4%	0.00	0.83	2.21	1.28	1.30	0.50	0.5%	0.21
26	03/04/19	WWF	1.21	50.50	1.06	0.83	1.61	0.63	2.05	0.30	0.7%	0.00	0.84	1.63	1.01	2.04	0.28	0.7%	0.26

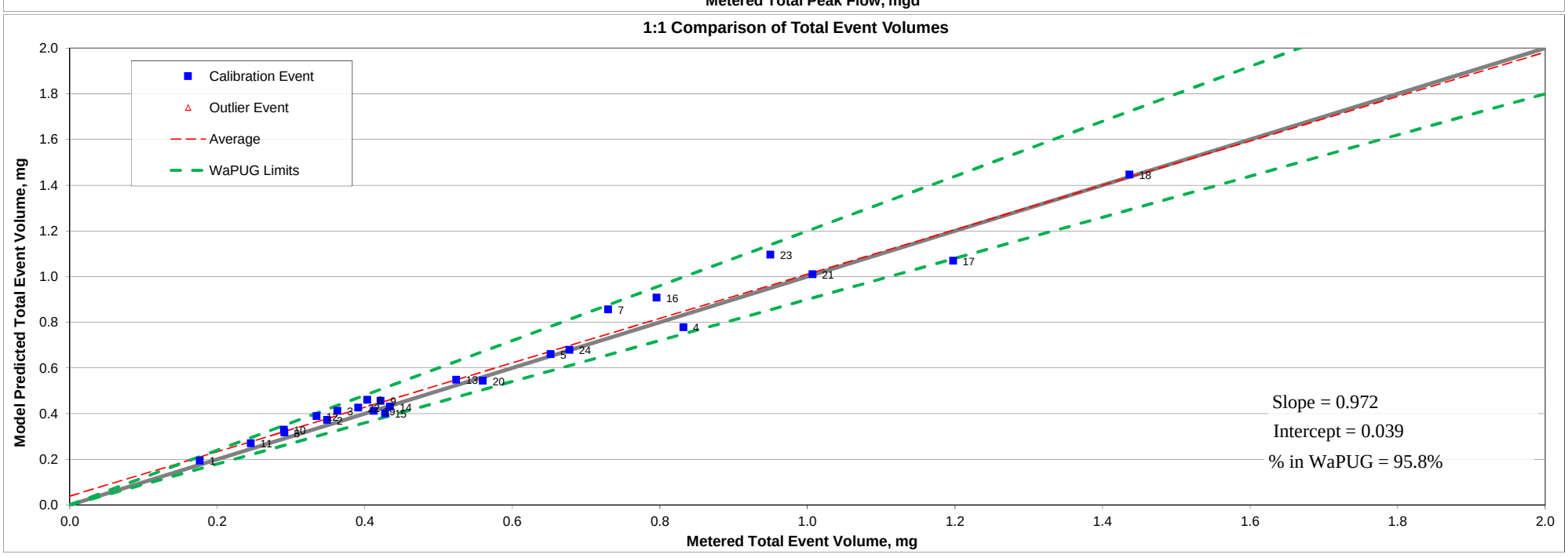




LS53: Hydraulic Model Validation Results

Events			Rainfall Data			Meter Data							Model Results						
Event ID	Event Date	Event Type	Rainfall (in)	Duration (hr)	Peak Hour Intensity (in/hr)	Avg. DWF (mgd)	Peak Hour Total Flow (mgd)	Peak Hour WWF (mgd)	Total Vol. (mg)	Wet Weather Vol. (mg)	Percent Capture	Max Level (ft)	Model Average DWF (mgd)	Model Peak Hour Total Flow (mgd)	Model Peak Hour WWF (mgd)	Model Total Vol. (mg)	Model Wet Weather Vol. (mg)	Model Percent Capture	Max Level (ft)
1	07/21/18	WWF	0.53	14.50	0.52	0.28	0.42	0.04	0.18	0.01	0.0%	0.00	0.28	0.43	0.11	0.19	0.03	0.2%	0.15
2	07/22/18	WWF	0.90	29.75	0.44	0.27	0.53	0.38	0.35	0.02	0.1%	0.00	0.27	0.40	0.11	0.37	0.04	0.2%	0.16
3	07/31/18	WWF	0.87	32.75	0.46	0.26	0.43	0.10	0.36	0.01	0.1%	0.00	0.26	0.40	0.11	0.41	0.05	0.2%	0.19
4	08/11/18	WWF	1.70	55.25	1.19	0.28	0.61	0.26	0.83	0.18	0.4%	0.00	0.29	0.56	0.23	0.78	0.12	0.3%	0.16
5	08/19/18	WWF	1.28	48.75	0.81	0.28	0.77	0.44	0.65	0.09	0.3%	0.00	0.28	0.46	0.16	0.66	0.08	0.3%	1.06
6	08/24/18	WWF	2.35	26.75	1.94	0.28	0.57	0.27	0.40	0.09	0.1%	0.00	0.28	0.62	0.34	0.46	0.15	0.2%	0.16
7	08/25/18	WWF	3.28	48.25	1.99	0.29	0.69	0.34	0.73	0.15	0.2%	0.00	0.28	0.80	0.46	0.86	0.30	0.3%	0.16
8	08/29/18	WWF	1.21	22.00	0.88	0.29	0.43	0.12	0.29	0.02	0.1%	0.00	0.28	0.47	0.16	0.32	0.06	0.2%	0.43
9	08/31/18	WWF	0.83	32.50	0.47	0.31	0.40	0.09	0.42	0.00	0.0%	0.00	0.30	0.43	0.08	0.45	0.04	0.2%	1.62
10	09/02/18	WWF	0.76	23.25	0.76	0.31	0.41	0.05	0.29	-0.01	0.0%	0.00	0.30	0.48	0.13	0.33	0.04	0.2%	0.26
11	09/05/18	WWF	0.75	19.25	0.74	0.31	0.41	0.05	0.25	0.00	0.0%	0.00	0.30	0.48	0.11	0.27	0.03	0.2%	0.18
12	09/06/18	WWF	1.53	22.75	1.05	0.31	0.50	0.12	0.33	0.04	0.1%	0.00	0.30	0.54	0.23	0.39	0.11	0.3%	0.18
13	09/12/18	WWF	1.28	38.00	1.20	0.31	0.43	0.13	0.52	0.04	0.1%	0.00	0.29	0.46	0.20	0.55	0.09	0.3%	0.18
14	10/09/18	WWF	0.86	37.50	0.28	0.25	0.47	0.13	0.43	0.04	0.2%	0.00	0.25	0.37	0.06	0.43	0.04	0.2%	0.18
15	11/02/18	WWF	0.59	32.00	0.46	0.27	0.46	0.12	0.43	0.07	0.4%	0.00	0.27	0.39	0.08	0.40	0.04	0.3%	0.18
16	12/09/18	WWF	2.71	54.25	2.31	0.28	0.72	0.35	0.80	0.16	0.2%	0.00	0.30	0.84	0.45	0.91	0.22	0.3%	0.97
17	12/14/18	WWF	2.69	69.00	0.51	0.30	0.62	0.22	1.20	0.33	0.5%	0.00	0.30	0.54	0.20	1.07	0.21	0.3%	0.21
18	12/19/18	WWF	4.55	87.00	1.42	0.33	0.73	0.40	1.44	0.26	0.2%	0.00	0.30	0.83	0.46	1.45	0.36	0.3%	2.38
19	01/04/19	WWF	0.76	31.00	0.52	0.30	0.47	0.10	0.41	0.03	0.1%	0.00	0.29	0.42	0.10	0.41	0.04	0.2%	0.21
20	01/24/19	WWF	0.79	42.00	0.46	0.28	0.43	0.11	0.56	0.07	0.3%	0.00	0.29	0.43	0.09	0.54	0.04	0.2%	0.21
21	01/27/19	WWF	2.57	68.50	0.38	0.29	0.53	0.18	1.01	0.17	0.2%	0.00	0.28	0.54	0.22	1.01	0.20	0.3%	0.21
22	02/12/19	WWF	1.27	31.00	1.04	0.27	0.41	0.10	0.39	0.05	0.1%	0.00	0.27	0.46	0.15	0.43	0.08	0.2%	0.20
23	02/26/19	WWF	4.29	60.00	1.47	0.29	0.65	0.37	0.95	0.24	0.2%	0.00	0.30	0.71	0.40	1.10	0.35	0.3%	0.31
24	03/04/19	WWF	1.35	53.75	1.20	0.27	0.40	0.18	0.68	0.08	0.2%	0.00	0.26	0.44	0.19	0.68	0.09	0.2%	0.26

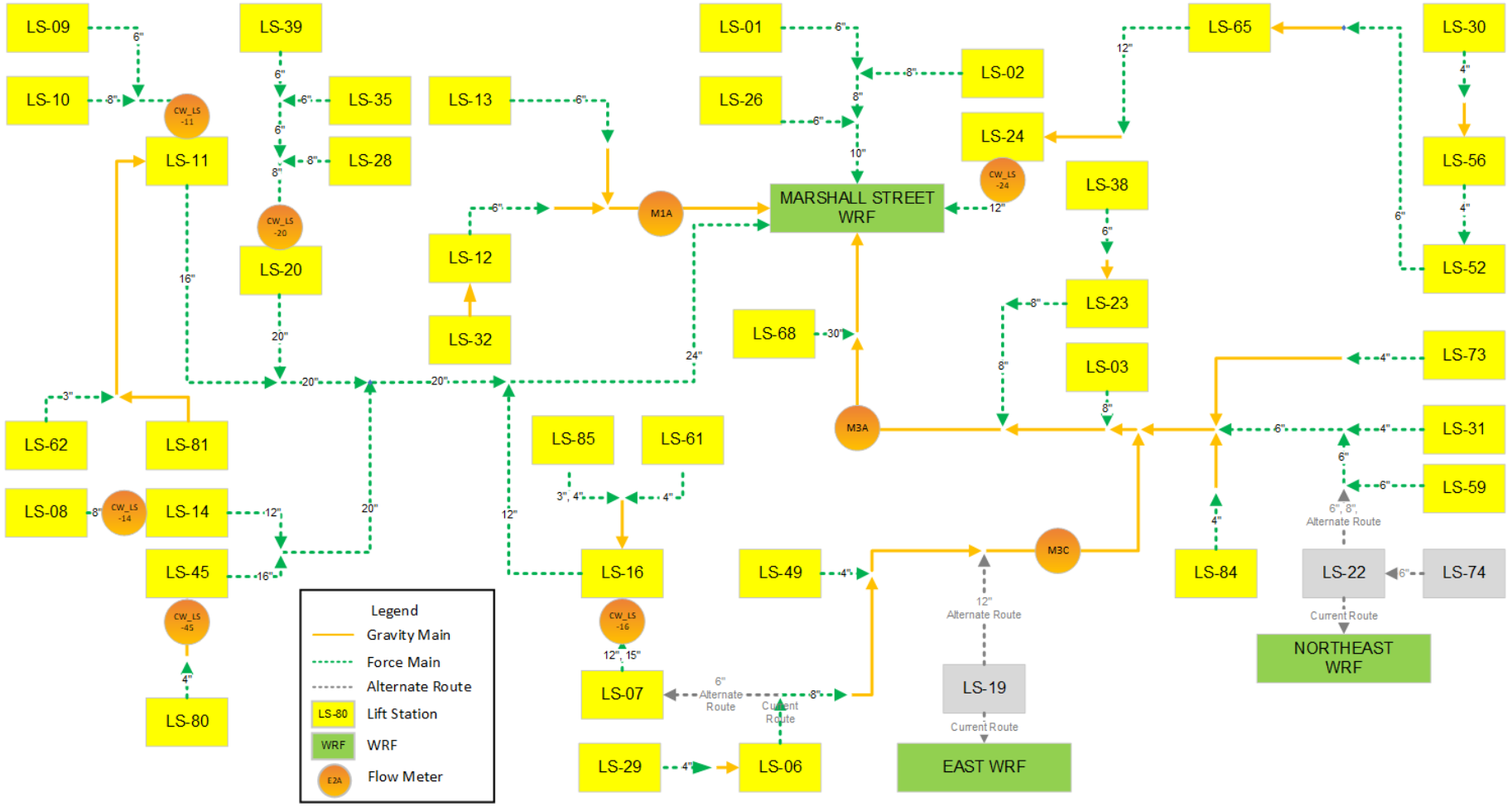




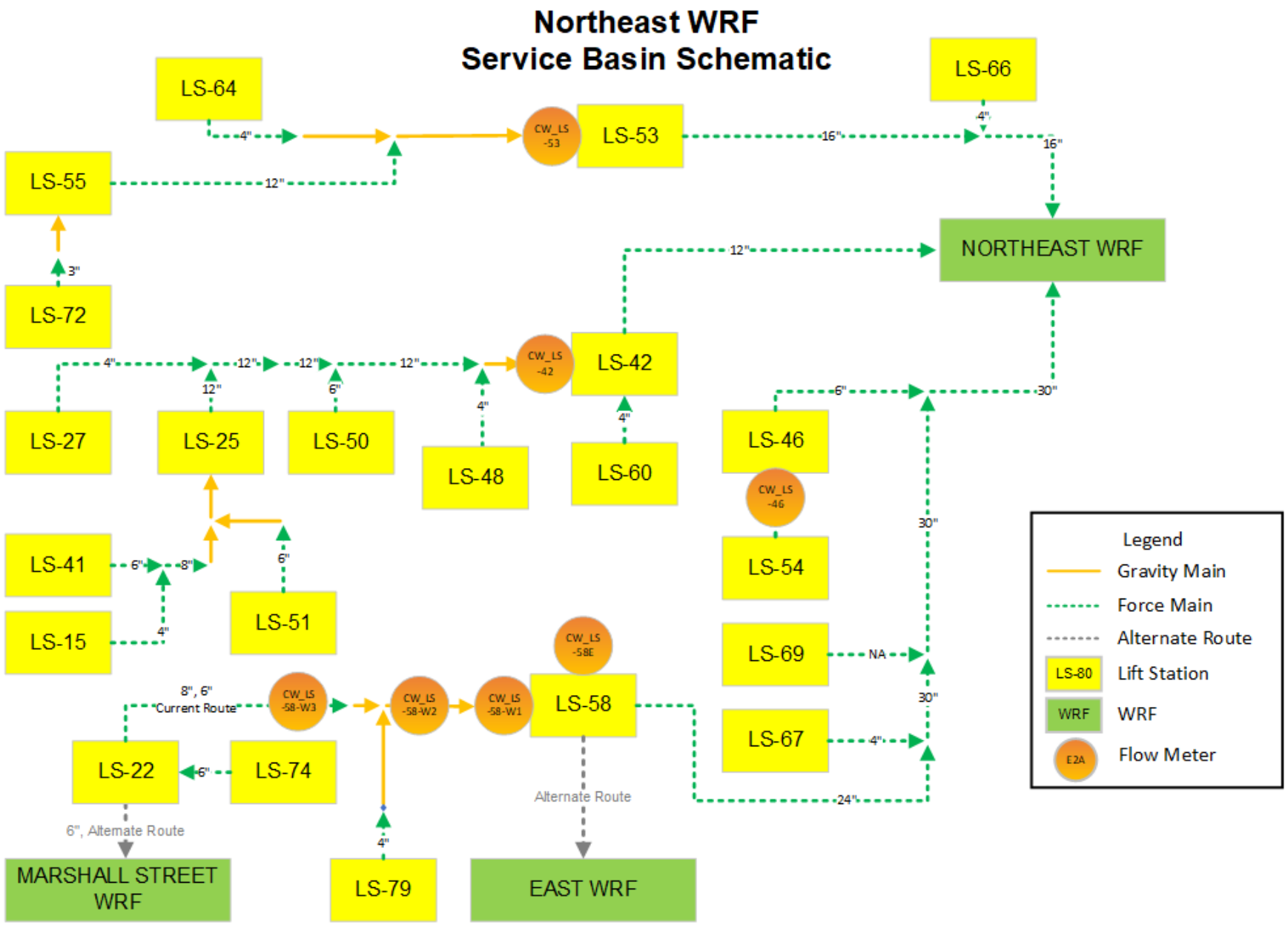
APPENDIX G

WRF BASIN SCHEMATICS AND CALIBRATED WET WEATHER UNIT HYDROGRAPH PARAMETERS

Marshall Street WRF
Service Basin Schematic

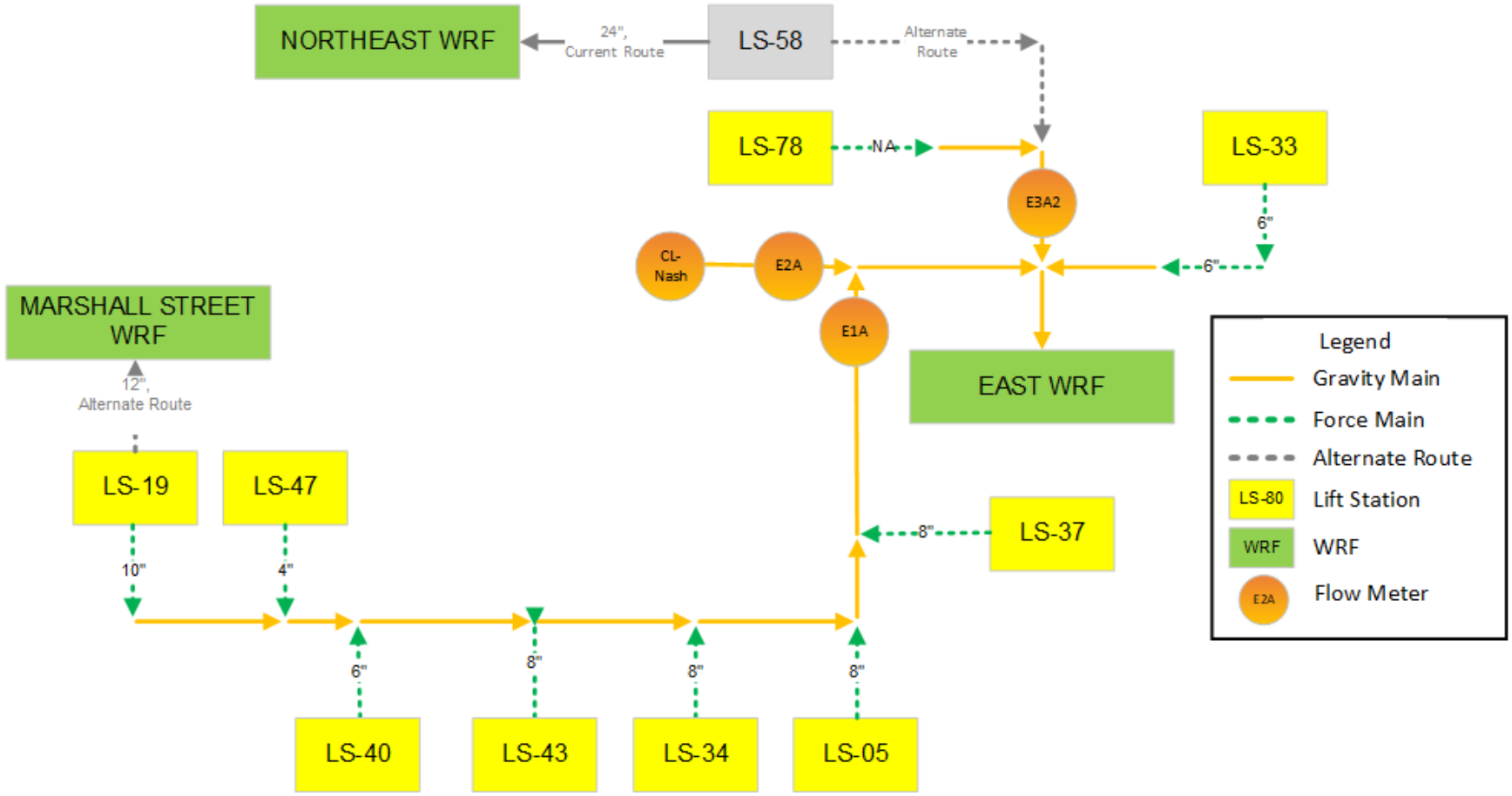


Subarea Applied	Response Type	Initial Abstraction (inches)	Capture, R (gallon / gallon)	Time to Peak, T (hours)	Ratio of Recession Limb to Time to Peak, K
M3A	Rapid Inflow	0.00	0.00000	1	2
	Moderate Infiltration	0.00	0.00000	1.5	3
	Slow Infiltration	0.00	0.01240	3	28
M3C	Rapid Inflow	0.20	0.00275	1	2
	Moderate Infiltration	0.20	0.00173	3	1
	Slow Infiltration	0.20	0.00816	6	12
M1A	Rapid Inflow	0.15	0.00108	0.75	1.5
	Moderate Infiltration	0.15	0.00101	2	3
	Slow Infiltration	0.15	0.00333	6	14
LS-24	Rapid Inflow	0.20	0.00103	1	1.5
	Moderate Infiltration	0.20	0.00000	2	5
	Slow Infiltration	0.20	0.00968	2.5	30
LS-16	Rapid Inflow	0.10	0.00262	1.25	2
	Moderate Infiltration	0.10	0.00189	1.5	4
	Slow Infiltration	0.10	0.00510	3.5	6
LS-14	Rapid Inflow	0.00	0.00240	1	3
	Moderate Infiltration	0.00	0.00000	0	0
	Slow Infiltration	0.00	0.00590	2.5	14
LS-20	Rapid Inflow	0.20	0.00801	0.75	1.5
	Moderate Infiltration	0.20	0.01002	1.5	3
	Slow Infiltration	0.20	0.01803	6	10
LS-45	Rapid Inflow	0.05	0.00410	2.5	3
	Moderate Infiltration	0.05	0.00041	3	2
	Slow Infiltration	0.05	0.00564	4.5	5
LS-11	Rapid Inflow	0.30	0.00718	1.75	2.25
	Moderate Infiltration	0.30	0.00061	3	4
	Slow Infiltration	0.30	0.00728	5	7


Northeast WRF
Service Basin Schematic
LS-64
LS-66
LS-53
CW_LS -53
LS-55
NORTHEAST WRF
LS-72
LS-42
CW_LS -42
LS-27
LS-25
LS-50
LS-48
LS-60
LS-46
CW_LS -46
LS-54
LS-41
LS-51
LS-15
LS-69
LS-67
CW_LS -58E
LS-58
CW_LS -58-W3
CW_LS -58-W2
CW_LS -58-W1
8", 6" *Current Route
LS-22
LS-74
6", Alternate Route
Alternate Route
MARSHALL STREET WRF
LS-79
EAST WRF
NA
Legend
Gravity Main
Force Main
Alternate Route
LS-80 Lift Station
WRF
E2A Flow Meter

Subarea Applied	Response Type	Initial Abstraction (inches)	Capture, R (gallon / gallon)	Time to Peak, T (hours)	Ratio of Recession Limb to Time to Peak, K
CW_LS-58-W1	Rapid Inflow	0.10	0.00809	2	3
	Moderate Infiltration	0.10	0.00000	3	4
	Slow Infiltration	0.10	0.00694	8	12
CW_LS-58-W2	Rapid Inflow	0.10	0.00220	2	3
	Moderate Infiltration	0.10	0.00284	3	4
	Slow Infiltration	0.10	0.00925	5	10
CW_LS-58-W3	Rapid Inflow	0.05	0.00156	1	3
	Moderate Infiltration	0.05	0.00112	3	4
	Slow Infiltration	0.05	0.00513	4	12
CW_LS-58-E	Rapid Inflow	0.10	0.00092	1	2
	Moderate Infiltration	0.10	0.00173	2	3
	Slow Infiltration	0.10	0.00901	8	11
CW_LS-46	Rapid Inflow	0.00	0.00127	1.5	2.25
	Moderate Infiltration	0.00	0.00042	2	5
	Slow Infiltration	0.00	0.00751	4	14
CW_LS-42	Rapid Inflow	0.05	0.00207	1	1.5
	Moderate Infiltration	0.05	0.00103	2	3
	Slow Infiltration	0.05	0.00465	7	6
CW_LS-53	Rapid Inflow	0.10	0.00052	1	2
	Moderate Infiltration	0.10	0.00021	2.5	5
	Slow Infiltration	0.10	0.00262	3	16

East WRF
Service Basin Schematic



Subarea Applied	Response Type	Initial Abstraction (inches)	Capture, R (gallon / gallon)	Time to Peak, T (hours)	Ratio of Recession Limb to Time to Peak, K
E1A	Rapid Inflow	0.15	0.00100	1.5	2.25
	Moderate Infiltration	0.15	0.00000	2	3
	Slow Infiltration	0.15	0.00220	4	10
E2A	Rapid Inflow	0.05	0.00135	0.5	6
Dry Season (Nov-Ap)	Moderate Infiltration	0.05	0.00000	2	4
	Slow Infiltration	0.05	0.00764	3.5	20
E2A	Rapid Inflow	0.05	0.00135	2	1
Rainy Season (May-Oct)	Moderate Infiltration	0.05	0.00196	3.25	4
	Slow Infiltration	0.05	0.01105	4	12
CL Nash St	Rapid Inflow	0.0	0.00340	0.75	2
	Moderate Infiltration	0.0	0.00380	1	3
	Slow Infiltration	0.0	0.00720	3	6
E3A2	Rapid Inflow	0.2	0.00887	2.5	2.75
	Moderate Infiltration	0.2	0.00209	3	4
	Slow Infiltration	0.2	0.01564	5	7

APPENDIX H

NOAA ATLAS 14, VOLUME 9, VERSION 2 PRECIPITATION FREQUENCY DATA FOR CLEARWATER, FL

NOAA Atlas 14, Volume 9, Version 2
Location name: Clearwater, Florida, USA*
Latitude: 27.9656°, Longitude: -82.7997°
Elevation: 29.4 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffery Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.556 (0.450-0.698)	0.626 (0.506-0.787)	0.736 (0.593-0.927)	0.823 (0.659-1.04)	0.936 (0.722-1.22)	1.02 (0.769-1.35)	1.10 (0.801-1.49)	1.17 (0.822-1.65)	1.26 (0.853-1.84)	1.33 (0.877-1.98)
10-min	0.815 (0.659-1.02)	0.917 (0.741-1.15)	1.08 (0.868-1.36)	1.21 (0.965-1.53)	1.37 (1.06-1.78)	1.49 (1.13-1.97)	1.61 (1.17-2.19)	1.72 (1.20-2.41)	1.85 (1.25-2.69)	1.94 (1.28-2.90)
15-min	0.994 (0.804-1.25)	1.12 (0.904-1.41)	1.31 (1.06-1.66)	1.47 (1.18-1.86)	1.67 (1.29-2.17)	1.82 (1.37-2.41)	1.96 (1.43-2.67)	2.09 (1.47-2.94)	2.26 (1.52-3.28)	2.37 (1.57-3.53)
30-min	1.53 (1.24-1.92)	1.68 (1.36-2.11)	1.94 (1.56-2.44)	2.16 (1.73-2.73)	2.47 (1.92-3.24)	2.72 (2.07-3.63)	2.97 (2.18-4.08)	3.24 (2.28-4.59)	3.60 (2.44-5.27)	3.88 (2.57-5.78)
60-min	2.00 (1.62-2.51)	2.21 (1.79-2.78)	2.57 (2.07-3.24)	2.88 (2.31-3.65)	3.33 (2.59-4.39)	3.69 (2.81-4.94)	4.07 (2.99-5.60)	4.46 (3.15-6.34)	5.01 (3.40-7.34)	5.43 (3.59-8.09)
2-hr	2.46 (2.01-3.07)	2.74 (2.22-3.41)	3.20 (2.59-4.01)	3.61 (2.91-4.54)	4.20 (3.29-5.49)	4.67 (3.57-6.21)	5.17 (3.82-7.07)	5.69 (4.04-8.03)	6.41 (4.38-9.34)	6.98 (4.64-10.3)
3-hr	2.69 (2.19-3.34)	3.02 (2.46-3.75)	3.58 (2.91-4.46)	4.08 (3.30-5.11)	4.80 (3.78-6.27)	5.39 (4.14-7.15)	6.01 (4.46-8.20)	6.67 (4.75-9.39)	7.58 (5.20-11.0)	8.30 (5.54-12.2)
6-hr	3.09 (2.54-3.81)	3.50 (2.87-4.31)	4.23 (3.46-5.24)	4.92 (4.00-6.12)	5.97 (4.76-7.83)	6.87 (5.33-9.12)	7.84 (5.88-10.7)	8.90 (6.41-12.5)	10.4 (7.23-15.1)	11.7 (7.84-17.1)
12-hr	3.57 (2.95-4.37)	4.02 (3.32-4.92)	4.94 (4.06-6.07)	5.86 (4.80-7.24)	7.38 (5.98-9.76)	8.75 (6.87-11.7)	10.3 (7.80-14.1)	12.0 (8.75-16.9)	14.6 (10.2-21.1)	16.7 (11.3-24.3)
24-hr	4.12 (3.42-5.01)	4.69 (3.89-5.70)	5.89 (4.87-7.18)	7.14 (5.87-8.75)	9.23 (7.55-12.2)	11.1 (8.82-14.8)	13.3 (10.2-18.2)	15.8 (11.6-22.2)	19.4 (13.7-28.1)	22.5 (15.3-32.5)
2-day	4.81 (4.02-5.80)	5.59 (4.67-6.74)	7.16 (5.96-8.67)	8.76 (7.25-10.7)	11.4 (9.37-14.9)	13.8 (11.0-18.2)	16.4 (12.6-22.3)	19.5 (14.4-27.1)	23.9 (17.0-34.3)	27.7 (19.0-39.7)
3-day	5.40 (4.53-6.48)	6.21 (5.20-7.46)	7.87 (6.58-9.49)	9.57 (7.95-11.6)	12.4 (10.2-16.1)	14.9 (11.9-19.6)	17.7 (13.7-23.9)	20.9 (15.5-29.1)	25.7 (18.3-36.7)	29.7 (20.4-42.5)
4-day	5.90 (4.96-7.06)	6.71 (5.64-8.04)	8.39 (7.02-10.1)	10.1 (8.41-12.2)	12.9 (10.7-16.8)	15.5 (12.4-20.3)	18.4 (14.3-24.8)	21.7 (16.2-30.1)	26.6 (19.0-37.9)	30.7 (21.2-43.8)
7-day	7.11 (6.01-8.45)	7.92 (6.68-9.43)	9.59 (8.07-11.5)	11.3 (9.47-13.6)	14.2 (11.8-18.3)	16.8 (13.5-21.8)	19.7 (15.3-26.3)	23.0 (17.2-31.7)	28.0 (20.1-39.6)	32.1 (22.3-45.6)
10-day	8.11 (6.87-9.60)	8.95 (7.58-10.6)	10.7 (8.99-12.7)	12.4 (10.4-14.8)	15.2 (12.6-19.4)	17.8 (14.3-22.9)	20.6 (16.1-27.3)	23.8 (17.8-32.6)	28.6 (20.6-40.2)	32.6 (22.7-46.0)
20-day	10.9 (9.29-12.8)	12.0 (10.2-14.1)	14.0 (11.9-16.5)	15.8 (13.4-18.8)	18.6 (15.4-23.2)	21.0 (16.9-26.5)	23.5 (18.3-30.6)	26.2 (19.7-35.3)	30.2 (21.8-41.9)	33.3 (23.4-46.8)
30-day	13.4 (11.4-15.7)	14.8 (12.7-17.3)	17.2 (14.7-20.2)	19.3 (16.3-22.8)	22.2 (18.3-27.3)	24.5 (19.8-30.7)	27.0 (21.0-34.7)	29.5 (22.1-39.2)	32.9 (23.8-45.2)	35.6 (25.0-49.8)
45-day	16.7 (14.4-19.5)	18.7 (16.0-21.8)	21.8 (18.6-25.5)	24.3 (20.6-28.6)	27.7 (22.7-33.6)	30.2 (24.3-37.3)	32.7 (25.5-41.6)	35.1 (26.4-46.3)	38.3 (27.7-52.2)	40.7 (28.7-56.7)
60-day	19.7 (17.0-22.9)	22.2 (19.1-25.8)	26.0 (22.3-30.3)	29.0 (24.7-34.0)	32.9 (27.1-39.7)	35.8 (28.8-44.0)	38.5 (30.1-48.8)	41.1 (30.9-53.8)	44.4 (32.1-60.1)	46.7 (33.1-64.8)

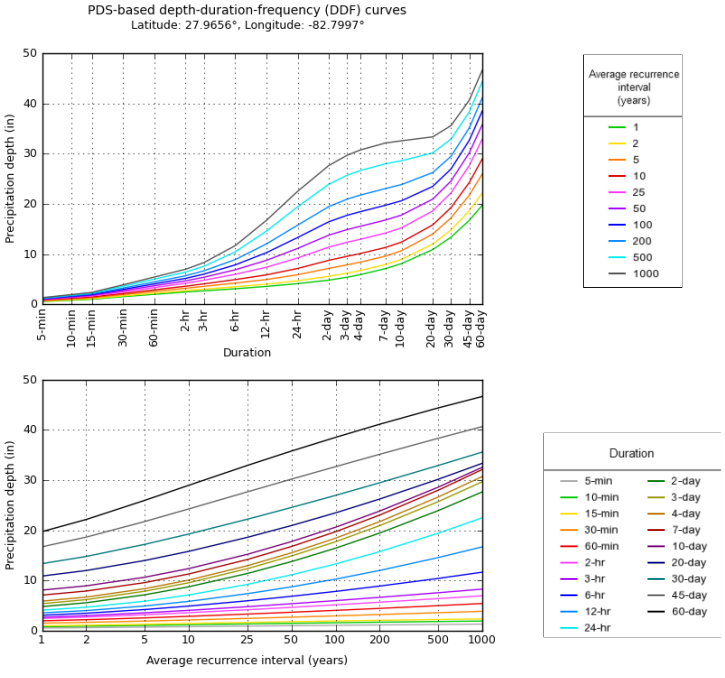
[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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PF graphical

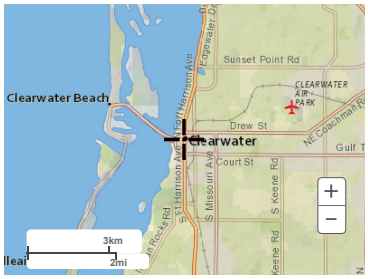


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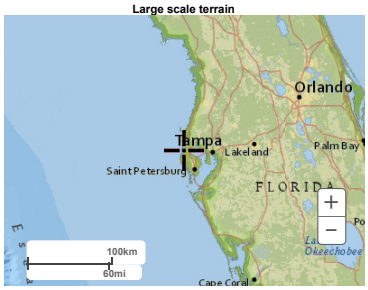
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Maps & aerials

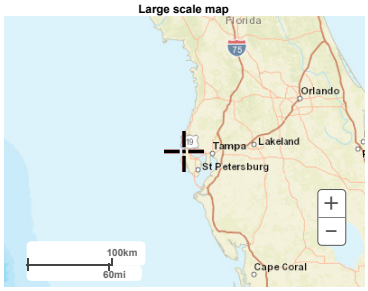
Small scale terrain



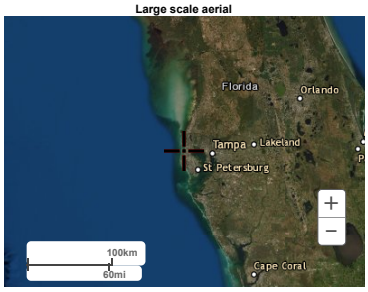
Large scale terrain



Large scale map



Large scale aerial



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Disclaimer

APPENDIX I

DESCRIPTION OF FORCE MAIN SEGMENTS

APPENDIX I - FORCE MAIN DESCRIPTIONS

ITEM #	PIPENAME	MATERIAL	DIAMETER	DESCRIPTION	LENGTH (FT)	ZONE
1	242A1601.1	PVC	12	12" PVC FM along N Keen Rd and Union St to junction 252B7601.	2,763	Marshall WRF
2	242B7120.1	NA	4	4" FM along Cypress Point Sr W to MH 242B8010 at Beverly Ln.	181	Marshall WRF
3	252B5601.1	PVC	12	12" PVC FM align Union St, turning south at Kings Hwy from junction AR 252B5601 to MH 251B8035.	5,244	Marshall WRF
4	252B7601.1	PVC	12	12" PVC FM along Union St from AR Junction 252B7601 to AR junction 252B5601.	1,182	Marshall WRF
5	258B5601.1	CAS	6	6" CIP FM from along Island Way from Harbor Passage to LS-28 at Palm Island NE.	1,009	Marshall WRF
6	258B8755.1	CAS	8	8" CIP FM along Island Way from LS-28 across small bridge just north of Skiff Pt.	777	Marshall WRF
7	260A4025.1	NA	10	10" FM from along Harbor Dr from MH 260A4025 to Fairmont St/Douglas Ave.	1,054	Marshall WRF
8	260A4085.1	NA	8	8" FM from GV junction 260A4085 at LS-02 to 6" FM	7	Marshall WRF
9	260A4090.1	PE	8	8" HDPE FM from Coachman Park along Drew St, N Osceola St, Jones St, Littlejohn Trail, and Marshall Street to Marshall Street WRF.	774	Marshall WRF
10	260A4090.2	PE	2	2" HDPE stub out just south if LS-2 from AR junction 260A5005 to 8" FM.	9	Marshall WRF
11	260A4095.1	PE	6	6" FM from GV 260S4095 at LS-02 south to 8" FM	6	Marshall WRF
12	260A5000.1	PE	8	8" HDP FM Near LS-02	10	Marshall WRF
13	260A5015.1	NA	3	3" FM stub at Washington Ave and Stevenson Ave from AR junction to 260A5010 to 6" FM.	18	Marshall WRF
14	260A5030.1	PE	6	6" FM from N Washington Ave at Stevenson Ave to GV junction 260A4095 near LS-02.	334	Marshall WRF
15	260B7030.1	NA	12	12" FM from LS-24 , meandering southwest along Sunset Point Rd, Beverly Ln, Vista Way, Pineland Dr, Carolyn Ln and Douglas Ave to Marshall St WRF.	5,050	Marshall WRF
16	260B7030.1	NA	12	12" Marshall St WRF FM.	39	Marshall WRF
17	260B7030.2	PVC	12	12" PVC Marshall WRF FM.	660	Marshall WRF
18	267A1105.1	NA	NA	E Shore Fm from AR 267A1105 to 16" FM on Baymont St.	28	Marshall WRF
19	267B6759.1	NA	8	8" FM from along Island Way.	47	Marshall WRF
20	267B8100.1	NA	20	20" FM along Island Way from LS-20 running southwest across Memorial Causeway.	456	Marshall WRF
21	267B8105.1	CAS	4	4" CIP FM from at Island Way .	23	Marshall WRF
22	267B8125.1	CAS	8	8" CIP FM along Island Way from just north of Skiff Pt to LS-20.	2,544	Marshall WRF
23	269B6105.1	NA	8	8" FM along LaSalle St between Fairburn Ave MH 269B6095 and N Betty Ln MH 269B60690.	283	Marshall WRF
24	276B7010.1	PVC	16	16" FM along Memorial Causeway at Island Way from GV junction 276B7010 to Island Way.	88	Marshall WRF
25	276B7020.1	PVC	16	16" PVC Fm along Memorial Causeway near Island Way from near AR junction 276B8785 to GV junction 276B7010.	360	Marshall WRF
26	276B7020.2	NA	NA	FM stub out from AR junction 276B8785 to 16" FM along Memorial Causeway west of Island Way	10	Marshall WRF
27	276B7025.1	NA	20	20" FM along Memorial Causeway from Island Way to sub-aqueous crossing manifold.	1,372	Marshall WRF
28	276B7601.1	NA	20	20" FM along Memorial Causeway.	1,759	Marshall WRF
29	277B1030.2	PE	20	20" HDPE FM crossing under Memorial Causeway then sub- aqueous to Coachman Park.	2,738	Marshall WRF
30	277B8150.1	PVC	4	4" PVC FM from 277B8150 to MH 277B5005 at Seminole St and Osceola Ave.	255	Marshall WRF
31	279B1000.1	DIP	6	67" FM near LS-2 2 between GV junction 276B1000 and GV junction 279B1005.	18	Marshall WRF
32	279B1000.2	DIP	8	8" DIP FM near LS-22 form GV junction 279B1000 to GV junction 279B1010.	19	Marshall WRF
33	279B1005.1	CAS	6	6" CIP FM from junction 279B1005 at LS-22, north along N Saturn Ave, turning west at Palmetto St to MH 270A4200 near N Glenwood Ave.	4,375	Marshall WRF
34	279B1010.1	PE	8	8" HDPE parallel to Airport Dr to GV junction 279B1010.	226	Marshall WRF
35	279B9075.1	PVC	3	3" PVC FM from LS-59 to MH 279B9075.	19	Marshall WRF
36	286B1156.1	NA	24	24" FM from Coachman Park, running northeast along Drew St , Osceola, to Littlejohn Tr to Marshall St and Marshall WRF.	8,859	Marshall WRF
37	286B5023	NA	4	4" FM from LS-61 to discharge at MH 286B5025	549	Marshall WRF
38	286B7000.1	PE	3	3" HDPE FM LS 286B70000 south along Drew St to Memorial Park	871	Marshall WRF
39	286B7000.2	PE	4	3.5" HDPR FM at Memorial Park	65	Marshall WRF
40	286B7000.3	PE	4	4" HDPE discharging to MH 286B6010.	364	Marshall WRF
41	286B7000.4	PE	3	3" HDPE FM from Memorial Park South to tennis courts.	216	Marshall WRF
42	286B9025.1	PE	3	3" HDPE FM from under Memorial Causeway to the east.	146	Marshall WRF
43	295A4040.1	PVC	3	3" PVC FM near Lime Ave	467	Marshall WRF
44	295B8115.1	CAS	15	15" CIP FM from along Bay Ave from Jeffords St to discharge at MH 295B5045 at Turner St.	2,154	Marshall WRF
45	295B8125.1	DIP	3	3" DIP FM from Lime Ave to Orange Ave at MH 2865B5050	207	Marshall WRF
46	313B7601.1	NA	8	8" FM along Woodlawn Ave from S Myrtle Ave to MH 314A3170.	1,456	Marshall WRF
47	313B7701.1	NA	6	6" FM section near S Myrtle Ave.	22	Marshall WRF
48	313B7701.2	CAS	6	6" CIP FM from S Myrtle Ave along Railroad, E St, Halmer Ave, and D St to Manhole 305B8065.	2,507	Marshall WRF
49	LS-01.1	PE	6	6" HDPE FM from LS-01 along Sunset Point and Stevenson Ave to 6"FM at N Washington Ave.	1,593	Marshall WRF
50	LS-02.1	NA	8	8" FM from LS-02 to GV junction 260A4085.	16	Marshall WRF
51	LS-03.1	NA	8	8" FM from LS-03 to MH 269B6105 at LaSalle St and N Betty Ln	62	Marshall WRF
52	LS-06.1	CAS	6	6" CIP FM from LS-06 along Woodlawn St to S Myrtle Ave.	509	Marshall WRF
53	LS-07.1	DIP	12	12" DIP FM from LS-07 along Jeffords St to Bay Ave.	1,212	Marshall WRF
54	LS-08.1	NA	8	8" Fm from LS-08 to MH 276A2030 along Hamden Dr.	1,247	Marshall WRF
55	LS-09.1	PVC	6	6" PVC FM at Via Cipriani.	2,721	Marshall WRF
56	LS-10.1	PVC	8	8" PV FM along Mandalay Ave from LS-11 north along Bruce Ave and to Verbena St at LS 10.	4,800	Marshall WRF

APPENDIX I - FORCE MAIN DESCRIPTIONS

ITEM #	PIPENAME	MATERIAL	DIAMETER	DESCRIPTION	LENGTH (FT)	ZONE
57	LS-10.2	DIP	6	6" DIP FM out LS 10 at Lantana Ave and Verbena St to 6" FM.	21	Marshall WRF
58	LS-11.1	DIP	16	16" DIP FM from LS-11 at Mandalay Ave along Baymont St to E Shore Dr.	592	Marshall WRF
59	LS-11.2	DIP	16	16" FM at E Shore S and Baymont St.	72	Marshall WRF
60	LS-11.3	PVC	16	16" FM at Baymont St.	30	Marshall WRF
61	LS-11.4	PE	16	16" FM sub-aqueous crossing from Baymont St across Memorial Causeway.	3,134	Marshall WRF
62	LS-12.1	NA	6	6" FM from LS-12 along Nicholson St to MH 277B7045 near Littlejohn Trail.	973	Marshall WRF
63	LS-13.1	NA	6	6" FM from LS-13 along Marshall St to MH 268B7060	904	Marshall WRF
64	LS-14.1	NA	12	12" FM from LS -14 north on Parkway Blvd to Bayway Blvd, then east Gulf Blvd.	740	Marshall WRF
65	LS-14.2	NA	16	16" FM on Bayway Blvd from Gulf Blvd to sub- aqueous crossing near 860 Bayway Blvd.	803	Marshall WRF
66	LS-14.3	NA	20	20" Sub-Aqueous crossing from Gulf way Blvd to Memorial Causeway.	2,376	Marshall WRF
67	LS-16.1	PE	12	12" HDPE FM from LS-16 north to Coachman Park 24" FM.	1,469	Marshall WRF
68	LS-17.1	NA	8	8" FM from LS-17 to MH 277B8015.	410	Marshall WRF
69	LS-19.1	DIP	12	12" DIP FM from along Jeffords St from LS-19 turning north along S Betty Ln to MH 296B5055	4,503	Marshall WRF
70	LS-20.1	DIP	12	12" DIP FM from LS-20 to FM at Island Way.	36	Marshall WRF
71	LS-20A.1	PVC	6	6" PVC FM from Clearwater Aquarium LS to Marina Way.	79	Marshall WRF
72	LS-20A.2	PE	6	6" HDPE FM along Marina Way.	166	Marshall WRF
73	LS-20A.3	PVC	6	6" PVC FM from Aquarium to MH 267B6065.	26	Marshall WRF
74	LS-21.1	PVC	10	10" PVC FM from Douglas Ave to MH 269A3115 at Marshall St and Harbor Dr.	755	Marshall WRF
75	LS-22.1	DIP	8	8" DIP from LS-22 to GV junction 276B1000.	20	Marshall WRF
76	LS-23.1	NA	8	8" FM from LS-23 across Betty Ln to MH 269B6040 at Engman St and Fairburn Ave.	554	Marshall WRF
77	LS-24.1	NA	12	12" FM from LS-24 to MH 260B7030 at Sunset Point Rd.	17	Marshall WRF
78	LS-26.1	NA	6	6" FM from LS-26 along Apache Tr and Harbor Dr to MH 260A4025 at N MLK Jr Ave.	1,312	Marshall WRF
79	LS-28.1	NA	8	8" FM from LS-28 to west side Island way manifold.	49	Marshall WRF
80	LS-29.1	CAS	4	4" CIP FM from LS-29 along S Fort Harrison Ave to MH 313B8035.	807	Marshall WRF
81	LS-30.1	NA	4	4" FM from LS-30 to valve junction 242B7120 at SE corner of Cypress Pointe Dr W.	30	Marshall WRF
82	LS-31.1	NA	4	4" FM from LS-31 along Palmetto St.	198	Marshall WRF
83	LS-32.1	PVC	4	4" PVC FM from LS-32 along Eldridge St to MH 277B5010 at Osceola Ave and Eldridge St.	293	Marshall WRF
84	LS-35.1	DIP	6	6" DIP FM from LS-35 along Harbor Passage to Island Way.	828	Marshall WRF
85	LS-38.1	NA	6	6" FM from LS-38 along Betty LN to MH 269B5100 at Springdale St.	1,217	Marshall WRF
86	LS-39.1	CAS	6	6" CIP FM from LS-39 along Island Way to Harbor Passage.	1,209	Marshall WRF
87	LS-45.1	NA	16	16" FM from LS-45 to Gulf Blvd.	96	Marshall WRF
88	LS-45.2	DIP	16	16" DIP FM from Sandy Key Bayside Beach to Bridge.	765	Marshall WRF
89	LS-45.2	PVC	16	16" PVC FM running North along Gulf Blvd.	1,299	Marshall WRF
90	LS-45.3	NA	16	16" FM running North along Gulf Blvd to Sandy Key Bayside Park.	3,112	Marshall WRF
91	LS-45.3	PE	16	16" HDPE FM parallel to Gulf Blvd Bridge.	2,485	Marshall WRF
92	LS-45.4	DIP	16	16" DIP FM from Northside of Gulf Blvd bridge to Bayway Blvd.	444	Marshall WRF
93	LS-45.5	DIP	16	16" DIP FM at Sandy Key Bayside Park.	26	Marshall WRF
94	LS-45.6	DIP	16	16" DIP FM crossing under Gulf Blvd Bridge	100	Marshall WRF
95	LS-49.1	NA	4	2" FM from LS-49 to discharge at MH 314A3090.	670	Marshall WRF
96	LS-52.1	NA	6	6" FM from LS 52 along N Hercules Ave and Union St to MH 253A1025.	2,298	Marshall WRF
97	LS-56.1	NA	4	4" FM from LS-56 along Cunningham Dr south to MH 253B5020 at Red Cedar Ln.	1,120	Marshall WRF
98	LS-59.1	NA	6	6" Fm from LS-69 to N Saturn Ave FM junction.	241	Marshall WRF
99	LS-62.1	NA	NA	LS-62-267A2035 at Pier 60.	980	Marshall WRF
100	LS-65.1	PVC	12	12" PVC FF from LS-65 along Virginia Ave, turning south at N Keene Rd to AR junction 242A1601.	1,495	Marshall WRF
101	LS-73.1	NA	4	4" FM from LS-73 across airfield and N Keane Rd to MH 270B7015 at Leo Ln E.	1,312	Marshall WRF
102	LS-74.1	PVC	6	6" PVC FM from LS-74 along Airport Dr, across N Keen Rd to LS 22 at Lickton Park.	838	Marshall WRF
103	LS-77.1	NA	30	30" FM from LS-68 to MH 269B5095.	245	Marshall WRF
104	LS-81.1	PVC	4	4" PVC FM from LS-81 to MH 267A4030 at Clearwater Beach Marina	149	Marshall WRF
105	NA	NA	4	4" FM from LS-84 to to junction 288A4015.	664	Marshall WRF
106	NA	HDP	16	20" HDPE FM from Guld Blvd along S Gulfview Blvd to sub aqueous crossing near 878 S Gufview Blvd to Memorial Causeway.	37	Marshall WRF
107	NA	HDP	20	20" HDPE FM from Guld Blvd along S Gulfview Blvd to sub aqueous crossing near 878 S Gufview Blvd to Memorial Causeway.	3,486	Marshall WRF
108	NA	HDP	20	20" HDPE FM from Guld Blvd along S Gulfview Blvd to sub aqueous crossing near 878 S Gufview Blvd to Memorial Causeway.	191	Marshall WRF
109	292B8721.1	NA	6	6" FM along Gulf to Bay Blvd from FM junction 292B8721 west to S Bayshore Blvd.	1,959	East WRF
110	LS-05.1	NA	8	8" FM from LS-05 along Flourney Cir to US 19.	1,428	East WRF
110	LS-05.1	DIP	6	6" FM at LS-05 at Via Cipriani	37	East WRF
111	LS-05.1	NA	8	8" FM stub out to junction tp 318A1150	13	East WRF
111	LS-05.1	DIP	10	10" FM near LS-05 to 8" FM at Via Cipriani	24	East WRF
112	LS-05.2	PVC	8	8" PVC FM crossing US 19 and running on the west side of US-19, north.	702	East WRF
112	LS-05.3	PVC	8	8" PVC FM running on the west side of US-19, north to MH 308B8050.	1,069	East WRF
113	LS-33.1	NA	6	6" FM from LS-33 to FM junction 292B8721 at Gulf to Bay Blvd.	132	East WRF
113	LS-19.2	NA	10	10" FM along Jeffords St from LS-19 to MH 307B7015 near S Keane Rd.	5,050	East WRF
114	LS-34.1	NA	8	8" FM from LS -34 along bike trail to MH 3098045.	1,277	East WRF

APPENDIX I - FORCE MAIN DESCRIPTIONS

ITEM #	PIPENAME	MATERIAL	DIAMETER	DESCRIPTION	LENGTH (FT)	ZONE
114	LS-37.1	NA	8	6" FM from LS-37 along Bay Cove to east side of US-19.	1,210	East WRF
115	LS-37.3	NA	8	8" FM east side of US-19 to MH 310A2005	806	East WRF
115	LS-37.2	PVC	8	8" PVC FM on east side of US-19 running north from Bay.	621	East WRF
116	LS-40.1	NA	6	6" FM from LS-40 generally east along Bellair Rd, north along Oak Ln, east along Nursery Rd, turning north at Allen Creek to MH 308B6120 near Oak Grove Middle School.	5,484	East WRF
116	LS-43.1	DIP	8	8" DIP FM from LS-43 east along Nursery Rd, turning north at Winchester Rd to MH 317A1005.	1,985	East WRF
117	LS-70.1	NA	6	6" FM from LS-70 to MH 283A4015	913	East WRF
117	LS-47.1	PVC	4	4" PVC FM at Allen's Creek Park to MH 308B5020.	807	East WRF
118	LS-P.2	PVC	4	4" PVC FM connecting Private FM LS-P to MH 291B7200	45	East WRF
119	178A4135.1	NA	12	12" FM along utility easement to MH 178A3010	2,494	Northeast WRF
120	179A1715.1	NA	16	16" FM from LS-63 running south along McMullen Booth to LS-66	2,891	Northeast WRF
121	188B5601.1	NA	12	12" FM along Northside Dr, turning north a utility easement and crossing over to Fox Hill Dr.	4,894	Northeast WRF
122	189A3011.1	NA	12	12" FM along Utility easement to Fox Hill Dr.	578	Northeast WRF
123	189A3012.1	NA	12	12" FM along Fox Hill Dr	57	Northeast WRF
124	189A3012.2	NA	12	12" FM along Fox Hill Dr.	41	Northeast WRF
125	189A3013.1	NA	12	12" FM along Fox Hill Dr to MH 189A3045	314	Northeast WRF
126	190A1601.1	NA	16	16" FM parallel to McMullen Booth Rd from LS-16 south and crosses McMullen Booth Rd near LS-42.	3,386	Northeast WRF
127	201A4020.1	NA	8	8" FM from near Northeast WRF from junction 201A4020 to 30" FM.	72	Northeast WRF
128	201A4717.1	DIP	16	16" DIP from McMullen Booth Rd to Northeast WRF	1,402	Northeast WRF
129	201A4767.1	NA	12	12" FM from LS-42	287	Northeast WRF
130	201A4769.1	NA	12	12" FM from junction 201A4769 to 201A4779 at Northeast WRF	34	Northeast WRF
131	201A4779.1	NA	12	12" FM at Northeast WRF from junction 201A4779 to 201A4768.	79	Northeast WRF
132	201A4780.1	NA	30	30" FM near Northeast WRF from junction 223A4775 to 201A4778.	887	Northeast WRF
133	212A4020.1	NA	NA	FM Stub on Allen Ave from AR 212A4020 to 30" FM	22	Northeast WRF
134	221A4095.1	NA	12	12" FM from junction 221A4095 at Enterprise Rd along Countryside Rd to junction 221B6065	385	Northeast WRF
135	221B6065.1	CAS	12	12" CIP FM from junction 221B6065 to along Countryside Rd, crossing US-19 to junction 221B6719 at LS 50	955	Northeast WRF
136	221B6719.1	CAS	12	12" CIP FM on Countryside Blvd near LS 50 to MH 222A1030.	3,206	Northeast WRF
137	223A1040.1	NA	NA	FM stub out on McMullen Booth Rd, south of Allen Ave.	58	Northeast WRF
138	223A1774.1	NA	30	30" FM at McMullen Booth Rd and Allen Ave to junction AR 212A4020	749	Northeast WRF
139	223A2601.1	NA	30	30" FM along McMullen Booth Rd from AR junction 223A2070 north to junction 223A27270 near LS-46 at Eastland Blvd.	776	Northeast WRF
140	223A2720.1	NA	30	30" FM along McMullen Booth Rd from junction 223A2720 near LS-46, north to junction 223A1774.	1,349	Northeast WRF
141	223A4773.1	NA	30	30" FM along Allen Ave from junction AR 212A4020 to 223A4775.	627	Northeast WRF
142	223A4775.1	NA	30	30" FM along Allen Ave, turning north along Rigsby Ln across State Road 580 to Northeast WRF	3,154	Northeast WRF
143	232A3015.1	NA	NA	LS-25 Pipe from MH 231A3015 to LS-25	14	Northeast WRF
144	232A3031.1	CAS	8	8" CIP along Countryside Rd from junction 232A3031 to MH 232A3030	459	Northeast WRF
145	232A3085.1	CAS	4	4" CIP FM on Countryside Blvd from junction 232A3085 to 232A3031	19	Northeast WRF
146	232A3105.1	CAS	4	4" CIP FM along Countryside Blvd from junction 231A3105 to 231A3085	230	Northeast WRF
147	245A1130.1	DIP	4	4" DIP at Union St from GV junction 245A1130 to 6" FM	13	Northeast WRF
148	245A1135.1	DIP	6	16" FM at Union St and N McMullen Booth Rd from GV junction 245A1135 to GV junction GV 245A2005.	40	Northeast WRF
149	245A1765.1	NA	30	30" FM along McMullen Booth Rd from junction 245A1765 near LS-69 north to AR junction 223A2070.	4,165	Northeast WRF
150	245A2005.1	DIP	16	16" DIP FM from GV junction 245A2005 to McMullen Booth Rd FM at Union St.	105	Northeast WRF
151	245A2705.1	NA	30	30" FM along McMullen Booth Rd from Cedar St junction 245A2705 to junction 245A1765 near LS-69 at Cypress Hollow Ln.	1,645	Northeast WRF
152	245A3005.1	PVC	4	4" PVC from junction 245A1001 parallel to N McMullen Booth Rd.	124	Northeast WRF
153	245A3005.2	NA	NA	FM Stub on west side of McMullen Booth Rd near Lake Cypress Dr.	31	Northeast WRF
154	256A2030.1	NA	NA	Misc. FM stub out on McMullen Booth Rd from AR junction 256A2030 to 256A2772	21	Northeast WRF
155	256A2772.1	NA	24	24" FM along McMullen Booth Rd from junction 256A2772 to Union St.	1,590	Northeast WRF
156	265A4005.1	NA	NA	FM from AR 265A4005 to junction 265A4771	17	Northeast WRF
157	265A4771.1	NA	24	24" FM on McMullen Booth from junction 265A4771 to junction 256A2772	3,163	Northeast WRF
158	271A5005.1	PVC	8	8" FM on Hercules Rd near Palmetto St from GV junction 271A5006. to 6" FM	58	Northeast WRF
159	271A5006.1	PVC	8	8" PVC FM running north along Hercules Rd, turning east along Range Rd from GV junction 271A5006 to MH 271B7100	3,673	Northeast WRF
160	274A1706.1	NA	24	24" FM along McMullen Booth from AR junction 274A1706 to junction 265A4771.	1,284	Northeast WRF
161	279B1010.2	PVC	6	6" FM along Airport Dr.	1,349	Northeast WRF
162	280A5000.1	PVC	6	6" PVC FM along Hercules Ave from GV junction 280A5000 north to Palmetto St.	1,212	Northeast WRF
163	280B1010.3	PVC	6	6" PVC FM along Airport Dr to N Hercules Ave at GV junction 280A5000	1,936	Northeast WRF
164	291A1100.1	PE	6	6" HDPE at RO to AR junction 291A1100	32	Northeast WRF
165	291A1110.1	PE	6	6" HDPE running north from RO to MH 291A1110.	868	Northeast WRF
166	LS-15.1	CAS	4	4" CIP FM from LS-15 through easement to Barkwood Pass, then North to N Belcher Rd to junction 232A3105	1,636	Northeast WRF
167	LS1-RO2.1	PE	3	3" HDPE LS1-RO2.1	382	Northeast WRF
168	LS1-RO2.1	PE	6	6" HDPE LS1-RO2	547	Northeast WRF
169	LS-25.1	CAS	12	12" CIP FM from LS 25 along Countryside Blvd to junction 221A4095 at Enterprise Rd.	818	Northeast WRF
170	LS-27.1	NA	4	4" FM from LS-27 between Enterprise Rd and Alexander Pl to junction 221A4095	1,239	Northeast WRF

APPENDIX I - FORCE MAIN DESCRIPTIONS

ITEM #	PIPENAME	MATERIAL	DIAMETER	DESCRIPTION	LENGTH (FT)	ZONE
171	LS3-RO2.1	PE	6	6" HDPE LS3-RO2	174	Northeast WRF
172	LS-41.1	CAS	6	6" CIP FM from LS-66 to Countryside Blvd junction 232A3031	1,009	Northeast WRF
173	LS-42.1	DIP	12	12" DIP FM from LS-42 east to WRF	1,124	Northeast WRF
174	LS-46.1	NA	6	6" FM from LS-46 to FM at McMullen Booth Rd junction 223A2720	67	Northeast WRF
175	LS-48.1	NA	4	4" FM from LS-28 to along Winding Wood Dr to MH 222A3050	2,031	Northeast WRF
176	LS-50.1	CAS	6	6"CIP from LS-50 to junction 221B6719	73	Northeast WRF
177	LS-51.1	NA	6	6" FM from LS-51 across bike trail bridge to MH 23B7090 at Enterprise Rd.	812	Northeast WRF
178	LS-53.1	NA	16	16" FM from LS-53	43	Northeast WRF
179	LS-54.1	NA	4	4" FM from LS-54 along N McMullen Booth Rd to MH 234A1080.	1,942	Northeast WRF
180	LS-55.1	PVC	12	12" PVC FM from LS-55 to Northside Dr.	1,263	Northeast WRF
181	LS-58.1	NA	24	24" FM from LS-58 along McMullen Booth Rd across railroad to AR junction 274A1706.	946	Northeast WRF
182	LS-60.1	PVC	4	4" PVC FM from LS-60 north t0 LS-62	1,810	Northeast WRF
183	LS-60.2	PVC	6	6"PVC FM Discharge to 201A4005	18	Northeast WRF
184	LS-60.3	PVC	4	4" PV FM connecting LS-60 FM to LS-42	16	Northeast WRF
185	LS-64.1	PVC	4	4" PVC FM along Lake Shore Dr from LS-64 to MH 178A1070	452	Northeast WRF
186	LS-66.1	NA	4	4" FM from LS-66 to McMullen Booth 16" FM	81	Northeast WRF
187	LS-67.1	PVC	4	4" PVC FM along Union St from LS-67 to GV junction 245A1130 at N McMullen Booth Rd.	1,340	Northeast WRF
188	LS-69.1	PVC	4	4" PVC FM from LS-69 parallel to N McMullen Booth Rd to Lake Cypress Dr.	936	Northeast WRF
189	LS-69.2	NA	NA	Fm from LS-69 to McMullen Booth Rd at junction 245A1765.	109	Northeast WRF
190	LS-72.1	NA	3	3" FM from LS-72 at Countryside Rec Park to MH 211A1045	234	Northeast WRF
191	LS-79.1	NA	4	4" FM from LS-39 to MH 281B8100 at Drew St.	1,304	Northeast WRF
192	LS-F.1	NA	4	4" FM from Private LS-F to MH 255A3035.	523	Northeast WRF
193	LS-M.1	PVC	6	6" FM from Private LS-M along Union St to GV junction 245A1135.	607	Northeast WRF
194	NA	NA	8	8" FM Stub out west of CO junction 201A4020.	36	Northeast WRF

LEGEND

- City of Clearwater WRF Service Area
- WRF Location
- Marshall Street WRF Lift Station
- Lift Station with Alternate Route to WRF
- Private Lift Station
- Lift Station Service Area Boundary
- Force Main
- Private Force Main
- Manhole
- Gravity Main
- Private Gravity Main
- Force Main End Points

Source: City of Clearwater Utilities Data

Northeast WRF

East WRF

CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

APPENDIX I - FORCE MAIN LOCATION MAP

TETRA TECH

N

0 1,200 2,400 Feet

Appendix I

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APPENDIX J

OPINION OF PROBABLE COST

Gravity Main R&R Opinion of Probable Cost by Rehabilitation Action

Rehabilitation Action	Marshall Street WRF	East WRF	Northeast WRF
CCTV Short Term	$ 615,000	$ 358,000	$ 145,000
CCTV Long Term	$ 582,000	$ 225,000	$ 1,190,000
Replace	$ 135,263,000	$ 93,833,000	$ 23,765,000
Point Repair	$ 25,318,000	$ 15,003,000	$ 7,027,000
Point Repair and Lining	$ 23,302,000	$ 22,426,000	$ 19,948,000
Lining	$ 5,837,000	$ 3,967,000	$ 2,588,000
Total	**$ 190,917,000**	**$ 135,812,000**	**$ 54,663,000**

Gravity Main R&R Unit Costs – CCTV

Rehabilitation Action	Unit Cost ($/Linear Foot)
CCTV Short Term	$3.00
CCTV Long Term	$3.00

Gravity Main R&R Unit Costs – Replacement

Replacement Pipe Diameter	Unit Cost ($/Linear Foot)
8-inch	$624
10-inch	$632
12-inch	$654
15-inch	$674
18-inch	$698
24-inch	$735
36-inch	$2,185
45-inch	$1,987

Gravity Main R&R Unit Costs – CIPP Lining

CIPP Lining Pipe Diameter	Unit Cost ($/Linear Foot)
6-inch	$68
8-inch	$218
10-inch	$225
12-inch	$240
15-inch	$265
18-inch	$280
24-inch	$272
36-inch	$385

Manhole R&R Opinion of Probable Cost by Rehabilitation Action

Rehabilitation Action	Marshall Street WRF	East WRF	Northeast WRF
Manhole Replacement	$ 24,396,000	$ 14,477,000	$ 19,383,000
Coating (Min. Deterioration)	$ 9,735,000	$ 5,772,000	$ 7,705,000
Coating (Sign. Deterioration)	$ 12,514,000	$ 7,419,000	$ 9,905,000
Misc. Repair	$ 8,400,000	$ 4,980,000	$ 6,648,000
Total	**$ 55,045,000**	**$ 32,648,000**	**$ 43,641,000**

Manhole R&R Unit Costs

Rehabilitation Action	Unit	Unit Cost
Manhole Replacement	EA	$34,800
Coating (Min. Deterioration)	$/Linear Foot	$1,160
Coating (Sign. Deterioration)	$/Linear Foot	$2,248

CAPITAL PROJECTS

Project	MAR-01-A - Martin Luther King Jr. Avenue Flooding, Alternative A: MLK Ave Sewer Replacement				
Item	Description	Quantity	Units	Unit Price	Amount
1	Replace Existing 15" and 18" Gravity Sewer with Proposed 24"	2,100	L.F.	$ 535	$ 1,124,000
2	Replace Existing 15" Gravity Sewer with Proposed 18"	3,900	L.F.	$ 509	$ 1,985,100
3	Replace Existing 10" and 12" Gravity Sewer with Proposed 15"	2,600	L.F.	$ 493	$ 1,281,800
	Subtotal				**$ 4,390,900**
	Contingency	30%			$ 1,317,270
	Engineering	15%			$ 658,635
	TOTAL				**$ 6,367,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

Project	MAR-01-B - Martin Luther King Jr. Avenue Flooding, Alternative B: LS-06 Flow Rerouting				
Item	Description	Quantity	Units	Unit Price	Amount
1	Replace Existing 12" Force Main with Estimated 16"	1,500	L.F.	$ 458	$ -
2	Replace/Improve Combination of Pumps and Wet Well Size at LS-16	1	L.S.	$ -	$ -
3	Replace Existing 12" to 24" Gravity Sewer with Proposed 30"	600	L.F.	$ 709	$ 425,400
4	Replace Existing 12" and 15" Gravity Sewer with Proposed 18"	1,900	L.F.	$ 509	$ 967,100
5	Replace Existing 12" Gravity Sewer with Proposed 15"	1,000	L.F.	$ 493	$ 493,000
6	Replace Existing 8" Gravity Sewer with Proposed 12"	1,800	L.F.	$ 479	$ 862,200
7	Replace Existing 6" Force Main with Estimated 8"	2,900	L.F.	$ 352	$ 1,020,800
8	Replace Existing 8" Gravity Sewer with Proposed 12"	600	L.F.	$ 479	$ 287,400
	Subtotal				**$ 4,055,900**
	Contingency	30%			$ 1,216,770
	Engineering	15%			$ 608,385
	TOTAL				**$ 5,881,000**

Notes: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

Improvements to LS 16 will be made under the Imagine Clearwater Project and are not included in this table.

Project	MAR-02 - LS-09 & LS-10 Improvements				
Item	Description	Quantity	Units	Unit Price	Amount
1	Replace Existing 8" Force Main with Estimated 10"	4,850	L.F.	$ 369	$ 1,789,650
2	Replace/Improve Combination of Pumps and Wet Well Size at LS-10	1	L.S.	$ 550,000	$ 550,000
3	Replace Existing 8" and 10" Gravity Sewer with Proposed 12"	360	L.F.	$ 479	$ 172,440
4	Replace Existing 8" Gravity Sewer with Proposed 10"	400	L.F.	$ 463	$ 185,200
5	Replace Existing 6" Force Main with Estimated 8"	2,700	L.F.	$ 352	$ 950,400
6	Replace/Improve Combination of Pumps and Wet Well Size at LS-09	1	L.S.	$ 550,000	$ 550,000
7	Replace Existing 8" Gravity Sewer with Proposed 12"	100	L.F.	$ 479	$ 47,900
	Subtotal				**$ 4,245,590**
	Contingency	30%			$ 1,273,677
	Engineering	15%			$ 636,839
	TOTAL				**$ 6,156,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

Project	MAR-03 - Gravity Sewer Replacement Upstream of LS-01 Due to Projected Growth (2030 Conditions)				
Item	Description	Quantity	Units	Unit Price	Amount
1	Replace Existing 8" Gravity Sewers with Proposed 12"	2,800	L.F.	$ 479	$ 1,341,200
	Subtotal				**$ 1,341,200**
	Contingency	30%			$ 402,360
	Engineering	15%			$ 201,180
	TOTAL				**$ 1,945,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

CAPITAL PROJECTS

Project	NRE-01-A - LS-58 Service Area: Trunk Sewer Leading to LS-58				
Item	Description	Quantity	Units	Unit Price	Amount
1	Replace Existing 36" Gravity Sewer with Proposed 60"	2,400	L.F.	$ 1,418	$ 3,403,200
2	Replace Existing 30" Gravity Sewer with Proposed 54"	2,700	L.F.	$ 1,276	$ 3,445,200
3	Replace Existing 30" Gravity Sewer with Proposed 48"	2,600	L.F.	$ 1,134	$ 2,948,400
	Subtotal				**$ 9,796,800**
	Contingency	30%			$ 2,939,040
	Engineering	15%			$ 1,469,520
	TOTAL				**$ 14,205,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

Project	NRE-02-A - LS-58 Service Area: Local Capacity Issues at Sunset Point Drive				
Item	Description	Quantity	Units	Unit Price	Amount
1	Replace Existing 18" Gravity Sewer with Proposed 30"	1,100	L.F.	$ 709	$ 779,900
2	Replace Existing 10 and 15" Gravity Sewer with Proposed 24"	6,900	L.F.	$ 535	$ 3,691,500
3	Replace Existing 12" Gravity Sewer with Proposed 18"	1,800	L.F.	$ 509	$ 916,200
	Subtotal				**$ 5,387,600**
	Contingency	30%			$ 1,616,280
	Engineering	15%			$ 808,140
	TOTAL				**$ 7,812,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

Project	NRE-01-B - LS-58 Service Area: Trunk Sewer Leading to LS-58				
Item	Description	Quantity	Units	Unit Price	Amount
1	Replace Existing 30" and 36" Gravity Sewer with Proposed 54"	2,400	L.F.	$ 1,276	$ 3,062,400
2	Replace Existing 30" Gravity Sewer with Proposed 48"	4,200	L.F.	$ 1,134	$ 4,762,800
3	Replace Existing 30" Gravity Sewer with Proposed 42"	1,100	L.F.	$ 992	$ 1,091,200
	Subtotal				**$ 8,916,400**
	Contingency	30%			$ 2,674,920
	Engineering	15%			$ 1,337,460
	TOTAL				**$ 12,929,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

Project	NRE-02-B - LS-58 Service Area: Local Capacity Issues at Sunset Point Drive				
Item	Description	Quantity	Units	Unit Price	Amount
1	Construct New Lift Station with Firm Capacity of 3.2 MGD	1	L.S.	$ 1,000,000	$ 1,000,000
2	Furnish and Install 10" Force Main	4,500	L.F.	$ 369	$ 1,660,500
3	Replace Existing 14" Gravity Sewer with Proposed 24"	1,300	L.F.	$ 535	$ 695,500
4	Replace Existing 12" Gravity Sewer with Proposed 18"	1,800	L.F.	$ 509	$ 916,200
	Subtotal				**$ 4,272,200**
	Contingency	30%			$ 1,281,660
	Engineering	15%			$ 640,830
	TOTAL				**$ 6,195,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

Project	NRE-03 - LS-58 Service Area: Local Capacity Issues at 12-Inch Sewer West of US-19				
Item	Description	Quantity	Units	Unit Price	Amount
1	Replace Existing 12" Gravity Sewer with Proposed 18"	2,100	L.F.	$ 509	$ 1,068,900
2	Replace Existing 10" Gravity Sewer with Proposed 15"	2,000	L.F.	$ 493	$ 986,000
	Subtotal				**$ 2,054,900**
	Contingency	30%			$ 616,470
	Engineering	15%			$ 308,235
	TOTAL				**$ 2,980,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

CAPITAL PROJECTS

Project	NRE-04 - Gravity Sewer Upstream of LS-46 - Enterprise Road				
Item	**Description**	**Quantity**	**Units**	**Unit Price**	**Amount**
1	Replace Existing 8" Gravity Sewer with Proposed 12"	1,550	L.F.	$ 479	$ 742,450
	Subtotal				**$ 742,450**
	Contingency	30%			$ 222,735
	Engineering	15%			$ 111,368
	TOTAL				**$ 1,077,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

Project	NRE-05 - Gravity Sewer Upstream of LS-25				
Item	**Description**	**Quantity**	**Units**	**Unit Price**	**Amount**
1	Replace Existing 8" and 10" Gravity Sewer with Proposed 12"	1,900	L.F.	$ 479	$ 910,100
2	Replace Existing 8" Gravity Sewer with Proposed 10"	1,400	L.F.	$ 463	$ 648,200
	Subtotal				**$ 1,558,300**
	Contingency	30%			$ 467,490
	Engineering	15%			$ 233,745
	TOTAL				**$ 2,260,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

Project	NRE-06 - LS-69				
Item	**Description**	**Quantity**	**Units**	**Unit Price**	**Amount**
1	Install New Pumps with a Higher Head Condition	1	L.S.	$ 30,000	$ 30,000
	Subtotal				**$ 30,000**
	Contingency	30%			$ 9,000
	Engineering	15%			$ 4,500
	TOTAL				**$ 44,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

Project	NRE-07 - LS-48 Discharge Force Main				
Item	**Description**	**Quantity**	**Units**	**Unit Price**	**Amount**
1	Replace Existing 4" Force Main with Proposed 6"	2,000	L.F.	$ 108	$ 216,000
	Subtotal				**$ 216,000**
	Contingency	30%			$ 64,800
	Engineering	15%			$ 32,400
	TOTAL				**$ 313,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

Project	NRE-08 - LS-42 Improvements Due to Projected Growth				
Item	**Description**	**Quantity**	**Units**	**Unit Price**	**Amount**
1	Replace/Improve Combination of Pumps and Wet Well Size to Increase Capacity to 6.5 MGD	1	L.S.	$ 3,500,000	$ 3,500,000
2	Replace Existing 21" and 24" Gravity Sewer with Proposed 30"	4,000	L.F.	$ 709	$ 2,836,000
3	Replace Existing 21" Gravity Sewer with Proposed 24"	600	L.F.	$ 535	$ 321,000
4	Replace Existing 18" Gravity Sewer with Proposed 21"	1,000	L.F.	$ 524	$ 524,000
	Subtotal				**$ 7,181,000**
	Contingency	30%			$ 2,154,300
	Engineering	15%			$ 1,077,150
	TOTAL				**$ 10,412,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

CAPITAL PROJECTS

Project	Potential NRE-09 - Integration of OTOTW WRF Flows				
Item	**Description**	**Quantity**	**Units**	**Unit Price**	**Amount**
1	Furnish and Install 10" Force Main	21,000	L.F.	$ 369	$ 7,749,000
	Subtotal				**$ 7,749,000**
	Contingency	30%			$ 2,324,700
	Engineering	15%			$ 1,162,350
	TOTAL				**$ 11,236,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

CAPITAL PROJECTS

Project EAS-01 -East WRF Influent Pump Station (if NRE-01-A and NRE-02-A are selected)

Item	Description	Quantity	Units	Unit Price	Amount
1	Piping and Valves	1	L.S.	$ 322,712	$ 322,712
2	Submersible Pump	2	L.F.	$ 85,600	$ 171,200
3	General Requirements	1	L.S.	$ 230,000	$ 230,000
4	Labor	1	L.S.	$ 110,160	$ 110,160
5	Subcontract Work	1	L.S.	$ 306,950	$ 306,950
	Subtotal				**$ 1,141,022**
	Contingency	30%			$ 342,307
	Engineering	15%			$ 171,153
	TOTAL				**$ 1,654,000**

Note: Unit prices are inclusive of Mobilization/Demobilization and Bypass Pumping costs.

Project EAS-01 - East WRF Influent Pump Station (if NRE-01-B and NRE-02-B are selected)

Item	Description	Quantity	Units	Unit Price	Amount
1	Piping and Valves	1	L.S.	$ 277,237	$ 277,237
2	Submersible Pump	2	L.F.	$ 64,200	$ 128,400
3	General Requirements	1	L.S.	$ 230,000	$ 230,000
4	Labor	1	L.S.	$ 103,768	$ 103,768
5	Subcontract Work	1	L.S.	$ 286,650	$ 286,650
	Subtotal				**$ 1,026,055**
	Contingency	30%			$ 307,817
	Engineering	15%			$ 153,908
	TOTAL				**$ 1,488,000**

Note: Unit prices are inclusive of Mobilization/Demobilization and Bypass Pumping costs.

Project EAS-02 - Gulf to Bay Boulevard

Item	Description	Quantity	Units	Unit Price	Amount
1	Replace Existing 36" Gravity Sewer with Proposed 48"	200	L.F.	$ 1,134	$ 226,800
2	Replace Existing 30" Gravity Sewer with Proposed 42"	400	L.F.	$ 992	$ 396,800
3	Replace Existing 15" Gravity Sewer with Proposed 21"	3,800	L.F.	$ 524	$ 1,991,200
4	Replace Existing 15" Gravity Sewer with Proposed 18"	700	L.F.	$ 509	$ 356,300
	Subtotal				**$ 2,971,100**
	Contingency	30%			$ 891,330
	Engineering	15%			$ 445,665
	TOTAL				**$ 4,308,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

Project EAS-03 - Del Oro Groves Residential Neighborhood

Item	Description	Quantity	Units	Unit Price	Amount
1	Replace Existing 8" Gravity Sewer with Proposed 12"	2,500	L.F.	$ 479	$ 1,197,500
	Subtotal				**$ 1,197,500**
	Contingency	30%			$ 359,250
	Engineering	15%			$ 179,625
	TOTAL				**$ 1,736,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

Project	**EAS-04 - Gravity Sewer Replacement Along Bayshore Boulevard Due to Projected Growth**				
Item	**Description**	**Quantity**	**Units**	**Unit Price**	**Amount**
1	Replace Existing 36" Gravity Sewer with Proposed 42"	2,800	L.F.	$ 992	$ 2,777,600
2	Replace Existing 30" and 36" Gravity Sewer with Proposed 42"	4,700	L.F.	$ 992	$ 4,662,400
	Subtotal				**$ 7,440,000**
	Contingency	30%			$ 2,232,000
	Engineering	15%			$ 1,116,000
	TOTAL				**$ 10,788,000**

Note: Unit prices are inclusive of General Requirements, Mobilization/Demobilization, and Bypass Pumping costs.

APPENDIX K

MANHOLE BRE CLASS

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
1	296B5015	Marshall Street WRF	5	5	5 x 5	High Priority Immediate Action		
2	308B5155	East WRF	5	5	5 x 5	High Priority Immediate Action		
3	201A4005	Northeast WRF	5	5	5 x 5	High Priority Immediate Action		
4	272B8030	Northeast WRF	5	5	5 x 5	High Priority Immediate Action		
5	273A2055	Northeast WRF	5	5	5 x 5	High Priority Immediate Action		
6	269B5125	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
7	287B7025	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
8	296A3160	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
9	267A3015	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab	MANDALAY AVE	2021
10	269B6020	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
11	286B6010	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
12	285A3085	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
13	285A3095	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
14	286A4010	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab	PIERCE ST	2021
15	285A3150	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
16	269B5105	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
17	296B6005	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
18	258A4085	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab	MANDALAY AVE	2021
19	269B5100	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
20	269B6015	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
21	287B7035	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab	N EVERGREEN AVE	2020
22	251B8040	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab	KINGS HWY	2019
23	269B5120	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
24	269B6030	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
25	278A3025	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
26	260A3070	Marshall Street WRF	5	4	5 x 4	High Priority Program Rehab		
27	269B5112	Marshall Street WRF	4	5	4 x 5	High Priority Program Rehab		
28	269B5111	Marshall Street WRF	4	5	4 x 5	High Priority Program Rehab		
29	316B7005	East WRF	5	4	5 x 4	High Priority Program Rehab		
30	298A1130	East WRF	5	4	5 x 4	High Priority Program Rehab	S ARCTURAS AVE	2021
31	298A1150	East WRF	5	4	5 x 4	High Priority Program Rehab	S ARCTURAS AVE	2021
32	298A1110	East WRF	5	4	5 x 4	High Priority Program Rehab	S ARCTURAS AVE	2021
33	300B5135	East WRF	5	4	5 x 4	High Priority Program Rehab		
34	289A2130	East WRF	5	4	5 x 4	High Priority Program Rehab		
35	298A3005	East WRF	5	4	5 x 4	High Priority Program Rehab		
36	289A2125	East WRF	5	4	5 x 4	High Priority Program Rehab	S ARCTURAS AVE	2021
37	298A4045	East WRF	5	4	5 x 4	High Priority Program Rehab		
38	308A3110	East WRF	5	4	5 x 4	High Priority Program Rehab		
39	289A2120	East WRF	5	4	5 x 4	High Priority Program Rehab		
40	292A2100	East WRF	5	4	5 x 4	High Priority Program Rehab		
41	292A2095	East WRF	5	4	5 x 4	High Priority Program Rehab		
42	308B8105	East WRF	5	4	5 x 4	High Priority Program Rehab		
43	298A1030	East WRF	5	4	5 x 4	High Priority Program Rehab	S ARCTURAS AVE	2021
44	292A2110	East WRF	5	4	5 x 4	High Priority Program Rehab		
45	308B6040	East WRF	5	4	5 x 4	High Priority Program Rehab	S HERCULES AVE	2020
46	MH57	East WRF	5	4	5 x 4	High Priority Program Rehab		
47	308B5150	East WRF	4	5	4 x 5	High Priority Program Rehab		
48	283B7025	East WRF	4	5	4 x 5	High Priority Program Rehab	BAYSHORE BLVD	2019
49	283B7045	East WRF	4	5	4 x 5	High Priority Program Rehab	BAYSHORE BLVD	2019
50	308B6005	East WRF	4	5	4 x 5	High Priority Program Rehab		
51	290B7005	Northeast WRF	5	4	5 x 4	High Priority Program Rehab		
52	233A3045	Northeast WRF	5	4	5 x 4	High Priority Program Rehab		
53	233A3040	Northeast WRF	5	4	5 x 4	High Priority Program Rehab		
54	280B5020	Northeast WRF	5	4	5 x 4	High Priority Program Rehab		
55	222B7085	Northeast WRF	5	4	5 x 4	High Priority Program Rehab		
56	281B8090	Northeast WRF	5	4	5 x 4	High Priority Program Rehab		
57	222B7070	Northeast WRF	5	4	5 x 4	High Priority Program Rehab		
58	233A3035	Northeast WRF	5	4	5 x 4	High Priority Program Rehab		
59	272B7020	Northeast WRF	5	4	5 x 4	High Priority Program Rehab		
60	282A3010	Northeast WRF	5	4	5 x 4	High Priority Program Rehab		
61	281B8105	Northeast WRF	5	4	5 x 4	High Priority Program Rehab		
62	290B5020	Northeast WRF	5	4	5 x 4	High Priority Program Rehab		
63	290A3035	Northeast WRF	5	4	5 x 4	High Priority Program Rehab		
64	267A3065	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
65	296A3100	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
66	287B5145	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	GROVE ST	2021
67	287A3120	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
68	253A2040	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
69	269B8130	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
70	269A3015	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
71	296A3155	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
72	253A1010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
73	296B6030	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
74	258A4045	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	MANDALAY AVE	2021
75	276A2040	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
76	253A1135	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
77	287A1075	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	BOOTH AVE	2021
78	258A3125	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
79	269A3125	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
80	287A2110	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
81	306A3020	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
82	305B7070	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
83	314A2090	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
84	286B5020	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	N OSCEOLA AVE	2021
85	305B5085	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
86	270A1025	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
87	288A3105	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	N CREST AVE	2020
88	306A3040	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
89	296B5009	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
90	270A4095	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	FLAGLER DR	2018
91	270A4070	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	CLARK ST	2018
92	270A4055	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	FLAGLER DR	2018
93	258A4020	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	MANDALAY AVE	2021
94	296B5195	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
95	305B5040	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
96	296A3005	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
97	287A2115	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
98	287B8065	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
99	253A1045	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
100	260A3120	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
101	269B6075	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
102	276A1115	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
103	269A3310	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
104	MH63	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
105	MH65	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
106	MH67	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
107	MH69	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
108	287A3085	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
109	296A3010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
110	306A3075	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
111	296A4115	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
112	269B6035	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
113	278A2030	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	LEE ST	2018
114	314A3170	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
115	288A3090	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
116	270B7015	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	E LEO LN	2018
117	305B7055	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
118	258A2020	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
119	269A4145	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
120	287B7070	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
121	260A3031	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
122	267B8090	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
123	296A2040	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
124	270A3020	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	SCOTT ST	2018
125	285A3105	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
126	252A3070	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
127	288A2125	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
128	286B5100	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
129	252A1100	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	RIDGELANE RD	2019
130	252A2005	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	BYRAM DR	2019
131	287A1015	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	BOOTH AVE	2021
132	287B5070	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	GROVE ST	2021
133	269B5090	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
134	278A3030	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
135	269A2150	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
136	269A3170	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
137	297A1060	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
138	278B6010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	N JEFFERSON AVE	2018
139	258B5060	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
140	253A1130	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
141	269A4115	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
142	258A3060	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	MANDALAY AVE	2021
143	269A3005	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
144	288A3075	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	N CREST AVE	2020
145	313B7080	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
146	268B8095	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
147	287A1045	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	BOOTH AVE	2021
148	296B7055	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
149	253A2015	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
150	270B6010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	LONG ST	2018

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
151	267A1010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
152	269B6060	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
153	267A1025	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
154	270A4065	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	FLAGLER DR	2018
155	295B7005	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
156	286A4005	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
157	296A3105	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
158	261A3075	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
159	270A1035	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
160	258B6005	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
161	251B8025	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	KINGS HWY	2019
162	287A2055	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	FRANKLIN ST	2021
163	242A2100	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
164	267A1015	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
165	258A2005	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
166	269B6065	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
167	269B8125	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
168	279A2060	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	HILLCREST DR	2020
169	279A2165	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	HILLCREST DR	2020
170	287A1085	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	PARK ST	2021
171	296B5190	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
172	296A3130	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
173	287A2080	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
174	287A3040	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
175	287A2040	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	PIERCE ST	2021
176	322A1010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
177	258A4055	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	MANDALAY AVE	2021
178	261A3080	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
179	267A4010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
180	296B5125	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
181	287A2085	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
182	296A3045	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
183	285A3060	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
184	285A3070	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
185	267B7015	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
186	269B6010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
187	269A2135	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
188	269A3315	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
189	258A4082	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
190	269A4165	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
191	279A9296	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	HILLCREST DR	2020
192	MH104	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
193	MH130	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
194	MH149	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
195	296A4170	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
196	287A3100	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
197	278A1055	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
198	267A1040	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
199	278A3040	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
200	270A1005	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
201	267A3055	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
202	276A4010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
203	306A4035	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
204	313B7105	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
205	242A2060	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
206	286B5025	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
207	305B8040	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
208	287B8010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
209	251B8005	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	KINGS HWY	2019
210	258A4080	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	MANDALAY AVE	2021
211	296A4045	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
212	296B7015	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
213	260A3055	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
214	269A3050	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
215	277B8115	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
216	296B7030	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
217	287A2120	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
218	306A4055	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
219	278A1060	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
220	286B7020	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	N GARDEN AVE	2021
221	258A4052	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	MANDALAY AVE	2021
222	278B7020	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
223	270B6015	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	LONG ST	2018
224	285A3100	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
225	258A4060	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		

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*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
226	258A4065	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
227	287A2090	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
228	269A3010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
229	278B5015	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
230	269A2040	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
231	306A4015	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
232	277B7030	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
233	287A3095	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
234	258A4025	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
235	305B7065	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
236	251A3100	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
237	287A2010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
238	287A2035	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
239	296A2105	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
240	269A3135	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
241	258A4050	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	MANDALAY AVE	2021
242	285A3005	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
243	305B7060	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
244	251A3105	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	GRANADA ST	2023
245	261A3105	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
246	287A2125	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
247	287A1090	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	PARK ST	2021
248	270A1030	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
249	296B5130	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
250	268B8150	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
251	278A1030	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
252	267B7020	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
253	276A2030	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
254	278A1065	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
255	268B8105	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
256	287B8045	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
257	296A2035	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
258	277B8085	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	JONES ST	2018
259	258A3105	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
260	296A3150	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
261	295B7015	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
262	279A2170	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
263	296A4130	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
264	306A3125	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
265	306A3090	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
266	253A1065	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
267	242A4140	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
268	287A2170	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	PARK ST	2021
269	267A3025	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	MANDALAY AVE	2021
270	287B5005	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	NE CLEVELAND ST	2021
271	287B7060	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	N EVERGREEN AVE	2020
272	287B6100	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
273	303B6020	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
274	269B6085	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
275	287A3090	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
276	269B5130	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
277	287A2100	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
278	285A3010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
279	285B5035	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
280	252A4015	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
281	305B5180	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
282	295B8025	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
283	253A1005	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
284	296A2025	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
285	296A2030	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
286	286B6110	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	S OSCEOLA AVE	2021
287	313B7110	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
288	269A1030	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
289	270B8040	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
290	285A3050	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
291	314A4060	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
292	269B8045	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
293	269A3155	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
294	260A4055	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
295	287A4100	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
296	269B7120	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
297	287A5030	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
298	277B8110	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	N GARDEN AVE	2018
299	286B7010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	N GARDEN AVE	2021
300	278B5020	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
301	270A2035	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
302	306A3080	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
303	286B5070	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
304	296A1060	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
305	279A2005	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	MAPLE ST	2020
306	258A3100	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
307	269A1055	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
308	287A3115	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
309	277B7025	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
310	277B8075	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	JONES ST	2018
311	278B8010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
312	288A3025	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	N LAKE DR	2020
313	296B6025	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
314	305B8025	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
315	286B5040	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
316	277B8080	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	JONES ST	2018
317	268B8160	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
318	278A3035	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
319	296B8050	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
320	306A1075	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
321	269A4140	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
322	287A3070	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	GROVE ST	2021
323	251A2105	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
324	276A1025	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
325	267B5010	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
326	276A2190	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
327	287B6130	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
328	287B6180	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
329	269A3110	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
330	306A3095	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
331	305A3075	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
332	286B6090	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program	PIERCE ST	2021
333	276A2065	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
334	249A4030	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
335	296B5080	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
336	287B8035	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
337	276A1100	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
338	276A3105	Marshall Street WRF	5	3	5 x 3	Priority Rehab Program		
339	252B5055	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
340	252B6035	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
341	295A4005	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
342	270B5015	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
343	261A1070	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
344	297A1085	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
345	268B7025	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	FAIRMONT ST	2022
346	269A2020	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
347	278A4040	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	JACKSON RD	2018
348	278A4045	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	N MADISON AVE	2018
349	252A1060	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
350	251A4090	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	OVERBROOK AVE	2023
351	269A1155	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
352	238A3045	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	ELDORADO AVE	2021
353	278A4020	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	NA	2018
354	287B6145	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
355	260A3030	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	OVERBROOK AVE	2023
356	252B6040	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
357	238A3030	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	ELDORADO AVE	2021
358	252B5105	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
359	270A3015	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
360	306B5010	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
361	295B6035	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
362	287B8095	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
363	252A3075	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
364	278A2095	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	HART ST	2018
365	253A1120	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
366	252A4140	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
367	252A4145	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
368	252A4040	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
369	251A3080	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
370	261B8130	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
371	261B8110	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
372	251A2115	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
373	251A2110	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
374	270B5050	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	SCOTT ST	2018
375	270B7030	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	ARIES LN	2018

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
376	296B6020	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
377	286B5045	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
378	278B6115	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	N PRESCOTT AVE	2018
379	278B6040	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	N PRESCOTT AVE	2018
380	296B6105	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
381	288A2110	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	DE LEON ST	2020
382	268B7045	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	SUNSET DR	2022
383	305B8005	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
384	296B8140	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
385	288A4005	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	PIERCE ST	2020
386	278A4085	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
387	296A2045	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
388	252A1010	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	RIDGELANE RD	2019
389	296B5140	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
390	287B6105	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
391	270A1040	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
392	278A2100	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	HART ST	2018
393	286B7065	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	N GARDEN AVE	2021
394	277B1000	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
395	277B1010	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
396	252B5065	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
397	287A2020	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
398	269A3165	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
399	287A4095	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
400	252B5085	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
401	313B7010	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
402	296A1070	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
403	252A3045	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
404	278B5085	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
405	267A3040	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
406	287B8130	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
407	314A4065	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
408	251A2120	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
409	270B8055	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
410	277B8045	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	N GARDEN AVE	2018
411	277B8100	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	N GARDEN AVE	2018
412	278B6070	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	JACKSON RD	2018
413	260A4030	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
414	287B8030	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
415	306B7040	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
416	314A3175	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
417	278A4055	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	JACKSON RD	2018
418	252A1035	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	RIDGELANE RD	2019
419	296B8070	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
420	286B7110	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	N GARDEN AVE	2021
421	261B6060	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
422	279A2155	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	MARIVA AVE	2020
423	270B5020	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	RIDGE AVE	2018
424	296B6070	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
425	270A1015	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
426	313B7075	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
427	261B6055	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
428	252B5155	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
429	269B7115	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
430	296B8085	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
431	295B6090	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
432	288B5005	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
433	269B8050	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
434	296B5105	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
435	288A1085	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	N SAN REMO AVE	2020
436	251A1070	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
437	277B1005	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
438	296B5040	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
439	269A2025	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
440	252B5050	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
441	253A2055	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
442	252B6070	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
443	251A4050	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	OVERBROOK AVE	2023
444	270A3010	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	FLAGLER DR	2018
445	260A4050	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
446	249A3095	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	MANDALAY AVE	2021
447	287A3125	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
448	287A1055	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	LAURA ST	2021
449	279A2160	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
450	278B6110	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
451	286B5075	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
452	287B7105	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
453	287A1025	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	GROVE ST	2021
454	287B8105	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
455	261B8115	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	MURRAY AVE	2018
456	287A4055	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
457	287A4070	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
458	313B7005	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
459	287B6135	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
460	287B5105	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
461	278B5080	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
462	269B7110	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
463	260B8090	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
464	267A3050	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
465	261B8125	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	ARDEN AVE	2018
466	306B5005	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
467	295B6030	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
468	288A1095	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	CLEVELAND ST	2020
469	288A1105	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	CLEVELAND ST	2020
470	296B6100	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
471	253A1125	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
472	252A2100	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
473	251A4030	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
474	261B8105	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
475	261B8100	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
476	261B6115	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	LYNN AVE	2018
477	261B6085	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
478	261B6110	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
479	267B5015	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
480	261B8120	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
481	270B7005	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
482	270B7010	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
483	270A1010	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
484	267B5005	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
485	269A4040	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
486	277B8120	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
487	296A1065	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
488	260B8085	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
489	258A3075	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
490	260A4040	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
491	261B6100	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	LOGAN ST	2018
492	270B5040	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	SCOTT ST	2018
493	288A2025	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	PIERCE ST	2020
494	278A4110	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
495	287A4075	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
496	276A4030	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
497	287B5110	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
498	252A3080	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
499	252A1105	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	RIDGELANE RD	2019
500	278A4025	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	N WASHINGTON AVE	2018
501	287A4020	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
502	296A2005	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
503	287A4040	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
504	296B8145	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
505	276A2055	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
506	270A2040	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
507	288A3125	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
508	288A2130	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
509	287B5065	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	GROVE ST	2021
510	305B6005	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
511	296B8160	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
512	287A2050	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
513	252B7060	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
514	252B7080	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
515	252A2075	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
516	251A4025	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
517	261A1075	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
518	261B8095	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	FLAGLER DR	2018
519	261B6120	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
520	270B5045	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	SCOTT ST	2018
521	270B7020	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	SCOTT ST	2018
522	278B6030	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	N JEFFERSON AVE	2018
523	269A4045	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
524	286B7005	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	WATTERSON AVE	2021
525	269A2140	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
526	258A2025	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
527	287A1050	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program	LAURA ST	2021
528	276A2005	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
529	253A2050	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
530	269A2145	Marshall Street WRF	5	2	5 x 2	Priority Rehab Program		
531	296B6040	Marshall Street WRF	5	1	5 x 1	Priority Rehab Program		
532	258A2015	Marshall Street WRF	5	1	5 x 1	Priority Rehab Program		
533	296B7060	Marshall Street WRF	5	1	5 x 1	Priority Rehab Program		
534	296B6035	Marshall Street WRF	5	1	5 x 1	Priority Rehab Program		
535	287B6210	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
536	286B6138	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
537	260A3100	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
538	269A3090	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
539	287B8155	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
540	286B1255	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
541	287B7045	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
542	296A3165	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
543	296B5055	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
544	296B8005	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program	MARK DR	2018
545	278B5005	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
546	269A3095	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
547	314A3090	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
548	296B8010	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
549	278B8050	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
550	314A3120	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
551	278B7045	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
552	287B8135	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
553	270A1135	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
554	278A3050	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
555	287B7140	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
556	287B7020	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
557	287B7100	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
558	260A1025	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
559	269A3105	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
560	287B7110	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
561	286B6060	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program	PIERCE ST	2021
562	286B6040	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
563	278B7010	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
564	286B6050	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program	PIERCE ST	2021
565	269A3085	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
566	279A1020	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
567	286B6020	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program	PIERCE ST	2021
568	286B6042	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program	PIERCE ST	2021
569	286B6041	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
570	286B6064	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program	PIERCE ST	2021
571	285A3145	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
572	306A2005	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
573	285A3040	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
574	286B6066	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
575	269A1085	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
576	269A3100	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
577	286B6025	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
578	279A1025	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
579	285A3075	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
580	269A1110	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
581	279A1015	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
582	269A1140	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
583	279A1030	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
584	278B7015	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
585	285A3015	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
586	286B6190	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
587	286B6165	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
588	269A3080	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
589	278B7005	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
590	286B6045	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program	PIERCE ST	2021
591	260A1030	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
592	306A2010	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
593	267B8045	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
594	286B6139	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
595	251B8055	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program	KINGS HWY	2019
596	269A1120	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
597	306A2035	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
598	267B8035	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
599	306A4005	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
600	287B6205	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
601	306A2045	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
602	296A3140	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
603	269B6170	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
604	278B7050	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
605	278B6015	Marshall Street WRF	4	4	4 x 4	Priority Rehab Program		
606	295B7130	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	HAMILTON CRES	2020
607	249A3120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	BAY ESPLANADE	2021
608	270A3045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	FLAGLER DR	2018
609	269A2230	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
610	260A3095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
611	258A3115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	MANDALAY AVE	2021
612	278A1095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
613	270A3005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
614	269B6090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
615	305B7035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
616	269A2225	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
617	270A1115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
618	278A1115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
619	279A1050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
620	294A2010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
621	285B5020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
622	267B7090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
623	276A1085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
624	269A2080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
625	269B6045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
626	269A4125	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
627	269A2160	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
628	269A2105	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
629	286B7100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
630	287A2105	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
631	305B7005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
632	277B8140	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
633	296A1075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
634	258A3095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	MANDALAY AVE	2021
635	269B8140	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
636	269B8145	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
637	270A4090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	LEVERN ST	2018
638	270A2005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
639	296A3065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
640	276A4005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
641	258B6030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
642	287A3020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N MADISON AVE	2018
643	258B6015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
644	286B8190	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
645	286B6055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PIERCE ST	2021
646	314A4110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
647	296A3109	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
648	314A4120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
649	285A3020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
650	288A3020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N CREST AVE	2020
651	287B8110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
652	313B8005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
653	306A2015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
654	258B5005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
655	249B5015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
656	268B7035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	FAIRMONT ST	2022
657	258A4035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
658	258B5040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
659	278B7060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
660	278A1170	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	VINE AVE	2018
661	258B8050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
662	286B8185	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
663	296B7025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
664	259B7041	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	CALUMET ST	2022
665	270A2131	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
666	278A1070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
667	278A1160	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	MAPLE ST	2018
668	260A1075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	APACHE TRL	2022
669	258A3130	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	MANDALAY AVE	2021
670	287A2070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	FRANKLIN ST	2021
671	286B8205	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
672	286B8160	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
673	286B6145	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
674	306A4020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
675	305B5170	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
676	314B5015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
677	267B8070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
678	251A2100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
679	296B5150	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
680	305A3025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
681	276A2145	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
682	251A2125	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
683	251A2135	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
684	251A2130	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
685	267B8030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
686	260A1015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
687	269B6005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
688	269B6115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
689	269A2200	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
690	286B7075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	LAURA ST	2021
691	286B6075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PIERCE ST	2021
692	286B7145	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	S GARDEN AVE	2021
693	260A2125	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	MOHAWK ST	2022
694	286B7140	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
695	287A2165	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
696	269B6080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
697	295B1005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
698	285A3045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
699	269B8025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
700	287B5010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N JEFFERSON AVE	2021
701	295B5005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PALM AVE	2020
702	287A2064	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	FRANKLIN ST	2021
703	277B8070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
704	267A2010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
705	287A4085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
706	314A4075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
707	288A3055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	LAURA ST	2020
708	287A2065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	FRANKLIN ST	2021
709	279A2175	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	ORANGEVIEW AVE	2020
710	278A4060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	HART ST	2018
711	286B7085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	LAURA ST	2021
712	296A1055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
713	252A4031	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N HIGHLAND AVE	2019
714	251B8056	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	KINGS HWY	2019
715	276A1205	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
716	258A3120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
717	285A3035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
718	269B8135	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
719	258A4075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
720	296B7035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
721	305B5135	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
722	287B5025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	KENWOOD AVE	2021
723	305B7030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
724	296B5115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
725	286B8145	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
726	288A1110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
727	286B8170	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
728	287A2156	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
729	314A4020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
730	269A4150	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
731	259B7060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	VENETIAN DR	2022
732	269B7160	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
733	296B8015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
734	296A1100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
735	287A1095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
736	287B5035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	KENWOOD AVE	2021
737	278B5065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
738	305B7010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
739	287A2130	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
740	305B5010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
741	277B5015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
742	260A1005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
743	286B8130	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
744	296A1050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
745	286B5800	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
746	287A1200	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
747	287B7021	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
748	267A2020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
749	314A3180	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
750	278A1100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
751	278B7055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
752	288A3010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
753	267A3060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
754	269A1150	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
755	259B8075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	SUNBURST CT	2022
756	251A2075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
757	279A3045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
758	295B7025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
759	251A2005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	CHARLES ST	2023
760	288A2160	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
761	258A3090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	MANDALAY AVE	2021
762	279A3100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
763	277B6030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	JONES ST	2018
764	269A2120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
765	276A1035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
766	295B8055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
767	278B6020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N LINCOLN AVE	2018
768	252A2041	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	BYRAM DR	2019
769	267B8055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
770	295B5015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	BAY AVE	2020
771	258B8045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
772	258A4040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
773	286B6005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
774	295B8100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
775	295B7060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
776	276A2070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
777	279A2150	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	ORANGEVIEW AVE	2020
778	287A4030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
779	269A2220	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
780	287B8120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
781	314A4100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
782	258B6025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
783	269B8085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
784	285B5065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
785	279A4115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
786	296A2100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
787	285B5040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
788	287B7010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N HILLCREST AVE	2020
789	288A1075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
790	287B5040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N LINCOLN AVE	2021
791	297A1040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
792	268B8025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
793	295B6080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
794	269A4050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
795	277B7040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
796	249A3075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	GARDENIA ST	2021
797	252B5125	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
798	252A4170	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
799	279A4015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
800	279B5105	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
801	288A2145	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
802	252A3065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
803	297A1005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
804	288B5010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
805	306A4060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
806	252A4050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
807	269B8060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
808	268B8155	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
809	288A3120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PARK ST	2020
810	288A3110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
811	296B5045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
812	305B8050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
813	322A1015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
814	306A1055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
815	253A1110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	DAWN DR	2019
816	261A2085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
817	267B5025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
818	267B5030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
819	269A4100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
820	286B7181	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
821	286B7115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N GARDEN AVE	2021
822	295B5025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PALM AVE	2020
823	286B5815	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
824	279A4200	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
825	295B7110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
826	279B5030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
827	260A1055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	CALUMET ST	2022
828	279A2180	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
829	252A4135	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N HIGHLAND AVE	2019
830	296A1080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
831	313B8070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
832	269A3055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
833	261A1100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
834	286B5810	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	FRANKLIN ST	2021
835	287B6200	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
836	285A3090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
837	261A1020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
838	251A2070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
839	286B7170	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	S GARDEN AVE	2021
840	261A4045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
841	251A2015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	CHARLES ST	2023
842	252B5140	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
843	269A1170	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
844	252B7035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
845	286B7050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N GARDEN AVE	2021
846	295B5020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	OAK AVE	2020
847	286B8110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
848	269A1080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
849	295B7065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
850	295B8010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
851	258B7015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
852	288A1005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N SAN REMO AVE	2020
853	253A1085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
854	270A1095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
855	306A8000	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
856	268A2025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
857	306A4155	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
858	251A1095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	GRANADA ST	2023
859	260A2025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	APACHE TRL	2022
860	305B7050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
861	287B6140	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
862	287B8125	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
863	287B8085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
864	286B9020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PARK ST	2021
865	286B8120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
866	259B7055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	VENETIAN DR	2022
867	252A2115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
868	252A2125	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
869	295B5055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PALM AVE	2020
870	249A3105	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	VERBENA ST	2021
871	278A1050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
872	252B6005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
873	314A3085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
874	279B5110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
875	297A1015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
876	251B7110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	KINGS HWY	2019
877	251B7175	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	KINGS HWY	2019
878	251B8060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	KINGS HWY	2019
879	269A2090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
880	251B8080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	KINGS HWY	2019
881	260B8060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
882	278A3045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
883	268B8100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
884	279A1010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
885	269A2100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
886	269B6125	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
887	259B7020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
888	258B6035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
889	258B6010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
890	258A4070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
891	260A1085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
892	270A1120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
893	269B8120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
894	269A3145	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
895	270A1110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
896	270A3040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
897	267A4025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
898	286B8045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PIERCE ST	2021
899	269B8055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
900	261A2095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
901	270B6090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	WEBB DR	2018
902	279A3085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
903	286B6120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
904	269B6155	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
905	270A4160	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
906	253A2090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
907	260A1060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	CALUMET ST	2022
908	295B7045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
909	278B7040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
910	267A2030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
911	260A1050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	CALUMET ST	2022
912	269B6160	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
913	269A2125	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
914	279B5010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	CASLER AVE	2018
915	260A2090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	OSAGE ST	2022
916	261A1005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
917	269A3070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
918	271A1010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
919	267A2005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
920	270A1130	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
921	278B7025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
922	288A1100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
923	296A3145	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
924	278A2175	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
925	279A3095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
926	277B7125	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
927	279A3060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
928	296B5175	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
929	287A2025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PIERCE ST	2021
930	288A3005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
931	286B8055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
932	278B5075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
933	305B5030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
934	305A3030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
935	279B5035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
936	287B7130	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
937	287B8060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
938	305B8090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
939	305B8045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
940	305B8035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
941	305B5075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
942	252A1025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	ALPINE RD	2019
943	251B7095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	KINGS HWY	2019
944	261A1010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
945	269B6175	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
946	249A3110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	VERBENA ST	2021
947	295B7050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
948	278A1165	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	MAPLE ST	2018
949	296A3135	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
950	288A1090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
951	278A2180	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
952	286B8175	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
953	286B6175	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
954	287A1080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PARK ST	2021
955	294A2020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
956	295B8075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
957	287A4090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
958	296A1045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
959	287B5045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	KENWOOD AVE	2021
960	314A3065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
961	277B8135	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
962	287A3025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	NA	2018
963	278A2015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	LEE ST	2018
964	296B5005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
965	305B5100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
966	305B5090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
967	306A2020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
968	305B5095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
969	287B7115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
970	314A4140	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
971	305B5070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
972	253A2060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
973	249B5005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
974	252A1080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	ALPINE RD	2019
975	251B8035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	KINGS HWY	2019

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
976	251B7055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	KINGS HWY	2019
977	270A2030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
978	268B8070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
979	269A1025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
980	269A1105	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
981	269A1045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
982	267A2040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
983	268B7090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
984	279A3065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
985	261A2090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
986	267A2035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
987	269A2005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
988	259B8025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
989	268B7085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
990	267A2025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
991	268B7055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	MARSHALL ST	2022
992	270A2055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
993	270A4100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	LEVERN ST	2018
994	287A2135	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
995	287A3050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	GROVE ST	2021
996	286B6080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PIERCE ST	2021
997	286B8140	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
998	286B5080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
999	286B8010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PIERCE ST	2021
1000	305B5080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1001	296B7020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1002	286B8080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	FRANKLIN ST	2021
1003	285A3025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1004	286B8025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PIERCE ST	2021
1005	306B5030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1006	296B5030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1007	287A1060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1008	305B5055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1009	286B8125	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1010	287B8090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1011	287B7160	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1012	287B5050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	GROVE ST	2021
1013	306A4135	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1014	314A3145	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1015	305B5210	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1016	314A4050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1017	251A3140	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1018	252A1085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	ALPINE RD	2019
1019	252A1050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	ALPINE RD	2019
1020	278B5040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1021	278B7030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1022	258B8060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1023	270A4145	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1024	269B8035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1025	267A3020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	MANDALAY AVE	2021
1026	279A3075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1027	269B8065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1028	279B5005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1029	278B7035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1030	269B5110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1031	269A2210	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1032	269A1060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1033	278B5070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1034	279B5095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1035	269A2215	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1036	278A1175	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PENNSYLVANIA AVE	2018
1037	258A1020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1038	286B6085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PIERCE ST	2021
1039	287A4065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1040	296B5120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1041	296A2055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1042	286B8165	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1043	279A4105	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1044	295B7055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	TURNER ST	2020
1045	287A2075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	FRANKLIN ST	2021
1046	305B5110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1047	287B7015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1048	286B6180	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1049	288A3015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1050	305B5020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
1051	296A3035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1052	305B5045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1053	277B6035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	JONES ST	2018
1054	296A2070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1055	287A3105	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1056	295B7040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1057	287B7125	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1058	287B7155	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1059	287B7165	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1060	306A4120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1061	287B7135	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1062	287B5085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N JEFFERSON AVE	2021
1063	306A3115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1064	261A1102	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1065	306A4083	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1066	270A3070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1067	270A3065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1068	269B8075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1069	253A2085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1070	269B8115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1071	251A3135	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	BROADWAY	2023
1072	261A1101	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1073	278A2096	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1074	267B8085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1075	267B8065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1076	251A2095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1077	270B6601	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1078	287B7170	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1079	296B5160	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1080	305B5140	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1081	305B5150	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1082	305B5155	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1083	305B5160	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1084	269B5035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1085	269B6145	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1086	269B8105	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1087	269B8110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1088	267B8060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1089	267B8050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1090	276A4025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1091	286B7130	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1092	277B6045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N OSCEOLA AVE	2018
1093	277B8065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	NA	2018
1094	278A1135	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1095	278A2035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1096	279A3055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1097	295B9990	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1098	285A1005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1099	285A1010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1100	267B8010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1101	267A2070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1102	269A4120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1103	269A2035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1104	269A2110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1105	269A2115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1106	286B5005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1107	286B7015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1108	286B5050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1109	286B8005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PIERCE ST	2021
1110	268B8060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1111	295B6100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1112	295B6105	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1113	295B7135	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1114	252A4190	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N HIGHLAND AVE	2019
1115	306A1090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1116	286B5805	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1117	269A4155	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1118	269A4175	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1119	MH5	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1120	MH10	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1121	MH45	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1122	MH52	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1123	MH91	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1124	MH101	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1125	MH108	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
1126	MH110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1127	MH111	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1128	MH112	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1129	MH115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1130	MH131	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1131	MH138	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1132	MH151	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1133	MH162	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1134	MH163	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1135	MH164	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1136	286B6140	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1137	269A1175	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1138	277B8060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	HART ST	2018
1139	287B7120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1140	251B7065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	KINGS HWY	2019
1141	270B6085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	MACRAE AVE	2018
1142	286B7095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	LAURA ST	2021
1143	252A4030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N HIGHLAND AVE	2019
1144	249A4040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	BAY ESPLANADE	2021
1145	249A3115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	VERBENA ST	2021
1146	286B7220	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PARK ST	2021
1147	285A3065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1148	270A1090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1149	268B8015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1150	268B8030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1151	276A2035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1152	267A2050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1153	295B7708	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1154	286B7180	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1155	252A4005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N HIGHLAND AVE	2019
1156	261A1015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1157	260A4005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1158	253A2045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1159	278A1085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1160	287A3010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1161	270A2130	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1162	269A2055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1163	269B5095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1164	286B5055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1165	269A3140	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1166	279B5060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1167	279B5100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1168	295B8020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1169	287B5150	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	GROVE ST	2021
1170	313B8060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1171	288A2155	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1172	287A4060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1173	286B8040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PIERCE ST	2021
1174	294A2015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1175	286B7090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	LAURA ST	2021
1176	294A2025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1177	306A2030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1178	242A2045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1179	279A1040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1180	277B8025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1181	270A1125	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1182	278A1155	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PENNSYLVANIA AVE	2018
1183	269B6055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1184	277B7075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1185	314A2020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1186	278A1080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	NA	2018
1187	260A3115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1188	278A1125	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	NA	2018
1189	267A4040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1190	270B6105	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1191	260A2005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	NOKOMIS ST	2022
1192	288A2190	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1193	286B8085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	FRANKLIN ST	2021
1194	287A1105	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PARK ST	2021
1195	313B7020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1196	313B8010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1197	287B6155	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1198	270A1085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1199	252A4010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1200	285B5010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
1201	268B8120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1202	278A1140	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1203	276A2135	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1204	287A2155	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1205	269A4015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1206	286B6136	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1207	258A3117	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	MANDALAY AVE	2021
1208	268B8020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	ENGMAN ST	2022
1209	269A4110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1210	295B8080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1211	276A1090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1212	269A1050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1213	313B8095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1214	287A3045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	GROVE ST	2021
1215	306A4085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1216	278A1150	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	MAPLE ST	2018
1217	288A1045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	GROVE ST	2020
1218	270B8010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1219	270B8020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N SATURN AVE	2018
1220	270B8030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	LONG ST	2018
1221	279A4110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1222	260A1020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1223	258B7020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1224	306A4010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1225	260A3005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	SPRINGTIME AVE	2023
1226	314A3045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1227	306A3120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1228	269A2075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1229	278A1130	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1230	252A4175	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N HIGHLAND AVE	2019
1231	260A3085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1232	269A1100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1233	260A1070	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	CALUMET ST	2022
1234	270A4150	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1235	270B6055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	WEBB DR	2018
1236	271A1015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1237	260A1045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	CALUMET ST	2022
1238	270A3050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1239	252A4125	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N HIGHLAND AVE	2019
1240	278A1005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1241	269A4105	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1242	286B6185	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1243	287B8115	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1244	295B7090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1245	296A3060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1246	286B8090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	FRANKLIN ST	2021
1247	306B5085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1248	251A2065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1249	252A4130	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1250	260A3010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1251	279A1045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1252	269B5040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1253	270B6020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	CASLER AVE	2018
1254	306B5025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1255	295B7085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1256	260B8055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1257	269B8040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1258	279A4080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1259	286B8060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	FRANKLIN ST	2021
1260	278A2085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	HART ST	2018
1261	286B7205	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PARK ST	2021
1262	313B8040	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1263	253A1095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1264	251A3130	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1265	270A2060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1266	261B8085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1267	261B8080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1268	267B7095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1269	270B7120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1270	270A2095	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1271	269B5045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1272	295B7080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1273	295B5045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	BAY AVE	2020
1274	269A4035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1275	277B7090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
1276	286B6076	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1277	305B1520	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1278	253A2005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1279	270A2020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1280	259B7075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	VENETIAN DR	2022
1281	287A3005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1282	314B6025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1283	270A2010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1284	267A4020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1285	270A2075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1286	259B8015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PRINCESS ST	2022
1287	277B8090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	JONES ST	2018
1288	285A3080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1289	286B8035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PIERCE ST	2021
1290	270A2100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1291	269B8100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1292	295B7105	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1293	252A4035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1294	270B8015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1295	269B5060	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1296	286B5030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1297	278A1120	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1298	279A3025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1299	258A4062	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1300	278A2170	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	BOOTH AVE	2021
1301	296A1015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1302	296B7050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1303	286B7035	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	GROVE ST	2021
1304	286B7225	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PARK ST	2021
1305	252A4045	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	N HIGHLAND AVE	2019
1306	268B8090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1307	276A4020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1308	286B7210	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PARK ST	2021
1309	267A1100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	MANDALAY AVE	2021
1310	276A2075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1311	267A2065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1312	296A3110	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1313	306A3105	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1314	287B8025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1315	287A2005	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PIERCE ST	2021
1316	287A2030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	PIERCE ST	2021
1317	305B5145	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1318	261A2080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1319	278A2010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	VINE AVE	2018
1320	276A2150	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1321	276A1010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1322	286B8200	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1323	286B8150	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1324	286B8195	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1325	297A1010	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1326	314A4080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1327	267B8075	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1328	269B5050	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1329	277B7100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1330	279A3020	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1331	252A2031	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	BYRAM DR	2019
1332	278A1090	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1333	268A2015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1334	252A2007	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	BYRAM DR	2019
1335	249A4080	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	BAY ESPLANADE	2021
1336	313B7100	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1337	305B8085	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1338	249A4025	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1339	269A4055	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1340	287A2225	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	NE CLEVELAND ST	2021
1341	288A2065	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program	FRANKLIN ST	2020
1342	313B7015	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1343	269A2030	Marshall Street WRF	4	3	4 x 3	Priority Rehab Program		
1344	288B6075	East WRF	5	3	5 x 3	Priority Rehab Program		
1345	299B6050	East WRF	5	3	5 x 3	Priority Rehab Program		
1346	315B7060	East WRF	5	3	5 x 3	Priority Rehab Program		
1347	291A4095	East WRF	5	3	5 x 3	Priority Rehab Program		
1348	298A4005	East WRF	5	3	5 x 3	Priority Rehab Program		
1349	298A2020	East WRF	5	3	5 x 3	Priority Rehab Program	BROOKSIDE DR	2021
1350	297A4135	East WRF	5	3	5 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
1351	316A2020	East WRF	5	3	5 x 3	Priority Rehab Program		
1352	291B6085	East WRF	5	3	5 x 3	Priority Rehab Program		
1353	291A4100	East WRF	5	3	5 x 3	Priority Rehab Program		
1354	291A2070	East WRF	5	3	5 x 3	Priority Rehab Program		
1355	290B8040	East WRF	5	3	5 x 3	Priority Rehab Program		
1356	299B6045	East WRF	5	3	5 x 3	Priority Rehab Program		
1357	290B8065	East WRF	5	3	5 x 3	Priority Rehab Program		
1358	298A1070	East WRF	5	3	5 x 3	Priority Rehab Program		
1359	298A1111	East WRF	5	3	5 x 3	Priority Rehab Program	S ARCTURAS AVE	2021
1360	307A3030	East WRF	5	3	5 x 3	Priority Rehab Program		
1361	298A2015	East WRF	5	3	5 x 3	Priority Rehab Program		
1362	306B6010	East WRF	5	3	5 x 3	Priority Rehab Program		
1363	297A4140	East WRF	5	3	5 x 3	Priority Rehab Program		
1364	298A4090	East WRF	5	3	5 x 3	Priority Rehab Program		
1365	298A4120	East WRF	5	3	5 x 3	Priority Rehab Program		
1366	298B6015	East WRF	5	3	5 x 3	Priority Rehab Program		
1367	289A1055	East WRF	5	3	5 x 3	Priority Rehab Program		
1368	297A2145	East WRF	5	3	5 x 3	Priority Rehab Program		
1369	307A1125	East WRF	5	3	5 x 3	Priority Rehab Program		
1370	300B5120	East WRF	5	3	5 x 3	Priority Rehab Program		
1371	317A3010	East WRF	5	3	5 x 3	Priority Rehab Program	RANCHWOOD DR	2019
1372	317B5020	East WRF	5	3	5 x 3	Priority Rehab Program	SUMMERLIN DR	2019
1373	289B6095	East WRF	5	3	5 x 3	Priority Rehab Program		
1374	297A4030	East WRF	5	3	5 x 3	Priority Rehab Program	S CREST AVE	2021
1375	315B7055	East WRF	5	3	5 x 3	Priority Rehab Program		
1376	289A4055	East WRF	5	3	5 x 3	Priority Rehab Program		
1377	289A3045	East WRF	5	3	5 x 3	Priority Rehab Program		
1378	280A2075	East WRF	5	3	5 x 3	Priority Rehab Program		
1379	298B5005	East WRF	5	3	5 x 3	Priority Rehab Program		
1380	289A1080	East WRF	5	3	5 x 3	Priority Rehab Program		
1381	289A1085	East WRF	5	3	5 x 3	Priority Rehab Program		
1382	289A1050	East WRF	5	3	5 x 3	Priority Rehab Program		
1383	291A2090	East WRF	5	3	5 x 3	Priority Rehab Program		
1384	309B5030	East WRF	5	3	5 x 3	Priority Rehab Program		
1385	288B6070	East WRF	5	3	5 x 3	Priority Rehab Program		
1386	317A1025	East WRF	5	3	5 x 3	Priority Rehab Program		
1387	299B5005	East WRF	5	3	5 x 3	Priority Rehab Program		
1388	298A1015	East WRF	5	3	5 x 3	Priority Rehab Program	BROOKSIDE DR	2021
1389	298A4030	East WRF	5	3	5 x 3	Priority Rehab Program		
1390	298A1040	East WRF	5	3	5 x 3	Priority Rehab Program	BROOKSIDE DR	2021
1391	298A1010	East WRF	5	3	5 x 3	Priority Rehab Program		
1392	289A1090	East WRF	5	3	5 x 3	Priority Rehab Program		
1393	307B5020	East WRF	5	3	5 x 3	Priority Rehab Program		
1394	289A1110	East WRF	5	3	5 x 3	Priority Rehab Program		
1395	289A4090	East WRF	5	3	5 x 3	Priority Rehab Program		
1396	289A3065	East WRF	5	3	5 x 3	Priority Rehab Program		
1397	300A3015	East WRF	5	3	5 x 3	Priority Rehab Program		
1398	308B6065	East WRF	5	3	5 x 3	Priority Rehab Program	S HERCULES AVE	2020
1399	300A4110	East WRF	5	3	5 x 3	Priority Rehab Program		
1400	298B5025	East WRF	5	3	5 x 3	Priority Rehab Program		
1401	290A4085	East WRF	5	3	5 x 3	Priority Rehab Program		
1402	289B6140	East WRF	5	3	5 x 3	Priority Rehab Program		
1403	289A4095	East WRF	5	3	5 x 3	Priority Rehab Program		
1404	299A3010	East WRF	5	3	5 x 3	Priority Rehab Program		
1405	298A1025	East WRF	5	3	5 x 3	Priority Rehab Program	BROOKSIDE DR	2021
1406	298A1020	East WRF	5	3	5 x 3	Priority Rehab Program	BROOKSIDE DR	2021
1407	298B5010	East WRF	5	3	5 x 3	Priority Rehab Program		
1408	289A1075	East WRF	5	3	5 x 3	Priority Rehab Program		
1409	289A2025	East WRF	5	3	5 x 3	Priority Rehab Program		
1410	315A2075	East WRF	5	3	5 x 3	Priority Rehab Program		
1411	308B5120	East WRF	5	3	5 x 3	Priority Rehab Program		
1412	316A2005	East WRF	5	3	5 x 3	Priority Rehab Program		
1413	289A1030	East WRF	5	3	5 x 3	Priority Rehab Program		
1414	300A3025	East WRF	5	3	5 x 3	Priority Rehab Program		
1415	297B7020	East WRF	5	3	5 x 3	Priority Rehab Program		
1416	289A4085	East WRF	5	3	5 x 3	Priority Rehab Program		
1417	291B8090	East WRF	5	3	5 x 3	Priority Rehab Program		
1418	308B5060	East WRF	5	3	5 x 3	Priority Rehab Program		
1419	307A3015	East WRF	5	3	5 x 3	Priority Rehab Program		
1420	315A2070	East WRF	5	3	5 x 3	Priority Rehab Program		
1421	298B5040	East WRF	5	3	5 x 3	Priority Rehab Program		
1422	299B5010	East WRF	5	3	5 x 3	Priority Rehab Program		
1423	297A4070	East WRF	5	3	5 x 3	Priority Rehab Program		
1424	307A3010	East WRF	5	3	5 x 3	Priority Rehab Program		
1425	316B8005	East WRF	5	3	5 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
1426	298A4075	East WRF	5	3	5 x 3	Priority Rehab Program		
1427	291A4085	East WRF	5	3	5 x 3	Priority Rehab Program		
1428	299A3015	East WRF	5	3	5 x 3	Priority Rehab Program		
1429	308B5100	East WRF	5	3	5 x 3	Priority Rehab Program		
1430	298A1060	East WRF	5	3	5 x 3	Priority Rehab Program	BROOKSIDE DR	2021
1431	299A3005	East WRF	5	3	5 x 3	Priority Rehab Program		
1432	308B8095	East WRF	5	3	5 x 3	Priority Rehab Program		
1433	291B6090	East WRF	5	3	5 x 3	Priority Rehab Program		
1434	316B7040	East WRF	5	3	5 x 3	Priority Rehab Program		
1435	297A4090	East WRF	5	3	5 x 3	Priority Rehab Program		
1436	298A4010	East WRF	5	3	5 x 3	Priority Rehab Program		
1437	289B6170	East WRF	5	3	5 x 3	Priority Rehab Program		
1438	291A4105	East WRF	5	3	5 x 3	Priority Rehab Program		
1439	289B6185	East WRF	5	3	5 x 3	Priority Rehab Program		
1440	298A4145	East WRF	5	3	5 x 3	Priority Rehab Program		
1441	291A2080	East WRF	5	3	5 x 3	Priority Rehab Program		
1442	291A2075	East WRF	5	3	5 x 3	Priority Rehab Program		
1443	291B8095	East WRF	5	3	5 x 3	Priority Rehab Program		
1444	299B5080	East WRF	5	3	5 x 3	Priority Rehab Program		
1445	290B8045	East WRF	5	3	5 x 3	Priority Rehab Program		
1446	290A4090	East WRF	5	3	5 x 3	Priority Rehab Program		
1447	291A2086	East WRF	5	3	5 x 3	Priority Rehab Program		
1448	298A1005	East WRF	5	3	5 x 3	Priority Rehab Program	VIRGINIA LN	2021
1449	274B8010	East WRF	5	3	5 x 3	Priority Rehab Program	ROSE RD	2018
1450	289A2060	East WRF	5	3	5 x 3	Priority Rehab Program		
1451	298A4065	East WRF	5	3	5 x 3	Priority Rehab Program		
1452	291B6100	East WRF	5	3	5 x 3	Priority Rehab Program		
1453	308A3065	East WRF	5	3	5 x 3	Priority Rehab Program		
1454	307A1145	East WRF	5	3	5 x 3	Priority Rehab Program		
1455	299B5085	East WRF	5	3	5 x 3	Priority Rehab Program		
1456	307B5025	East WRF	5	3	5 x 3	Priority Rehab Program		
1457	308B6100	East WRF	5	3	5 x 3	Priority Rehab Program	S HERCULES AVE	2020
1458	308B8035	East WRF	5	3	5 x 3	Priority Rehab Program		
1459	309B6095	East WRF	5	3	5 x 3	Priority Rehab Program	SUMMERLIN DR	2019
1460	274B8005	East WRF	5	3	5 x 3	Priority Rehab Program		
1461	308B6070	East WRF	5	3	5 x 3	Priority Rehab Program	AMBASSADOR DR	2020
1462	307A3080	East WRF	5	3	5 x 3	Priority Rehab Program		
1463	307A3083	East WRF	5	3	5 x 3	Priority Rehab Program		
1464	299A4010	East WRF	5	3	5 x 3	Priority Rehab Program		
1465	297A4095	East WRF	5	3	5 x 3	Priority Rehab Program		
1466	299A1075	East WRF	5	3	5 x 3	Priority Rehab Program		
1467	291B6080	East WRF	5	3	5 x 3	Priority Rehab Program		
1468	309B5055	East WRF	5	3	5 x 3	Priority Rehab Program		
1469	291A4080	East WRF	5	3	5 x 3	Priority Rehab Program		
1470	297A3050	East WRF	5	3	5 x 3	Priority Rehab Program	S CREST AVE	2021
1471	309B6055	East WRF	5	3	5 x 3	Priority Rehab Program	DICKENSON DR	2019
1472	290B6065	East WRF	5	3	5 x 3	Priority Rehab Program		
1473	299B6025	East WRF	5	3	5 x 3	Priority Rehab Program		
1474	300A1005	East WRF	5	3	5 x 3	Priority Rehab Program		
1475	290A4080	East WRF	5	3	5 x 3	Priority Rehab Program		
1476	290B8060	East WRF	5	3	5 x 3	Priority Rehab Program		
1477	297B6005	East WRF	5	2	5 x 2	Priority Rehab Program	YELVINGTON AVE	2021
1478	290B6075	East WRF	5	2	5 x 2	Priority Rehab Program		
1479	309B5100	East WRF	5	2	5 x 2	Priority Rehab Program		
1480	309A3005	East WRF	5	2	5 x 2	Priority Rehab Program	FLUSHING AVE	2019
1481	290B6020	East WRF	5	2	5 x 2	Priority Rehab Program		
1482	309B5095	East WRF	5	2	5 x 2	Priority Rehab Program		
1483	290A4040	East WRF	5	2	5 x 2	Priority Rehab Program		
1484	297A2160	East WRF	5	2	5 x 2	Priority Rehab Program		
1485	288B7050	East WRF	5	2	5 x 2	Priority Rehab Program		
1486	309B6075	East WRF	5	2	5 x 2	Priority Rehab Program	HARN BLVD	2019
1487	307B5060	East WRF	5	2	5 x 2	Priority Rehab Program		
1488	283A3045	East WRF	5	2	5 x 2	Priority Rehab Program	SAN PEDRO ST	2019
1489	289A2045	East WRF	5	2	5 x 2	Priority Rehab Program		
1490	280A2055	East WRF	5	2	5 x 2	Priority Rehab Program		
1491	288B5110	East WRF	5	2	5 x 2	Priority Rehab Program		
1492	283A3060	East WRF	5	2	5 x 2	Priority Rehab Program	SAN BERNADINO ST	2019
1493	283A3025	East WRF	5	2	5 x 2	Priority Rehab Program		
1494	289B6085	East WRF	5	2	5 x 2	Priority Rehab Program		
1495	291B6045	East WRF	5	2	5 x 2	Priority Rehab Program		
1496	307B5075	East WRF	5	2	5 x 2	Priority Rehab Program		
1497	297B6135	East WRF	5	2	5 x 2	Priority Rehab Program		
1498	309A3085	East WRF	5	2	5 x 2	Priority Rehab Program	FLUSHING AVE	2019
1499	315B6040	East WRF	5	2	5 x 2	Priority Rehab Program		
1500	314B7030	East WRF	5	2	5 x 2	Priority Rehab Program		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
1501	314B7025	East WRF	5	2	5 x 2	Priority Rehab Program		
1502	283A3100	East WRF	5	2	5 x 2	Priority Rehab Program	SAN MATEO ST	2019
1503	291B6075	East WRF	5	2	5 x 2	Priority Rehab Program		
1504	291B6055	East WRF	5	2	5 x 2	Priority Rehab Program		
1505	298B6055	East WRF	5	2	5 x 2	Priority Rehab Program		
1506	309A4095	East WRF	5	2	5 x 2	Priority Rehab Program	RANCHWOOD DR	2019
1507	309A3015	East WRF	5	2	5 x 2	Priority Rehab Program	GLENMOOR RD N	2019
1508	309B5075	East WRF	5	2	5 x 2	Priority Rehab Program		
1509	315A2055	East WRF	5	2	5 x 2	Priority Rehab Program		
1510	309B5070	East WRF	5	2	5 x 2	Priority Rehab Program		
1511	290A4050	East WRF	5	2	5 x 2	Priority Rehab Program		
1512	298B6105	East WRF	5	2	5 x 2	Priority Rehab Program		
1513	290A4060	East WRF	5	2	5 x 2	Priority Rehab Program		
1514	297A3130	East WRF	5	2	5 x 2	Priority Rehab Program	S CREST AVE	2021
1515	297B5095	East WRF	5	2	5 x 2	Priority Rehab Program	YELVINGTON AVE	2021
1516	298B8010	East WRF	5	2	5 x 2	Priority Rehab Program		
1517	317A2145	East WRF	5	2	5 x 2	Priority Rehab Program		
1518	309B5105	East WRF	5	2	5 x 2	Priority Rehab Program		
1519	309B5080	East WRF	5	2	5 x 2	Priority Rehab Program		
1520	297B5065	East WRF	5	2	5 x 2	Priority Rehab Program	TURNER ST	2021
1521	289B5041	East WRF	5	2	5 x 2	Priority Rehab Program		
1522	306B7060	East WRF	5	2	5 x 2	Priority Rehab Program		
1523	306B7090	East WRF	5	2	5 x 2	Priority Rehab Program		
1524	309A1040	East WRF	5	2	5 x 2	Priority Rehab Program		
1525	317A2135	East WRF	5	2	5 x 2	Priority Rehab Program		
1526	298B1000	East WRF	5	2	5 x 2	Priority Rehab Program		
1527	307B5015	East WRF	5	2	5 x 2	Priority Rehab Program		
1528	299B6005	East WRF	5	2	5 x 2	Priority Rehab Program		
1529	289A3055	East WRF	5	2	5 x 2	Priority Rehab Program		
1530	298B7005	East WRF	5	2	5 x 2	Priority Rehab Program		
1531	297A4035	East WRF	5	2	5 x 2	Priority Rehab Program	S LAKE DR	2021
1532	298A2005	East WRF	5	2	5 x 2	Priority Rehab Program		
1533	297B8030	East WRF	5	2	5 x 2	Priority Rehab Program		
1534	307B5050	East WRF	5	2	5 x 2	Priority Rehab Program		
1535	314B7085	East WRF	5	2	5 x 2	Priority Rehab Program		
1536	297B6010	East WRF	5	2	5 x 2	Priority Rehab Program	S KEYSTONE AVE	2021
1537	297A3095	East WRF	5	2	5 x 2	Priority Rehab Program	S CREST AVE	2021
1538	306B8185	East WRF	5	2	5 x 2	Priority Rehab Program		
1539	307A1065	East WRF	5	2	5 x 2	Priority Rehab Program		
1540	297B8005	East WRF	5	2	5 x 2	Priority Rehab Program	S DUNCAN AVE	2021
1541	309B5060	East WRF	5	2	5 x 2	Priority Rehab Program		
1542	316B5010	East WRF	5	2	5 x 2	Priority Rehab Program	AMBASSADOR DR	2020
1543	315B7030	East WRF	5	2	5 x 2	Priority Rehab Program		
1544	314B5045	East WRF	5	2	5 x 2	Priority Rehab Program		
1545	307B5010	East WRF	5	2	5 x 2	Priority Rehab Program		
1546	290A4015	East WRF	5	2	5 x 2	Priority Rehab Program		
1547	298A2050	East WRF	5	2	5 x 2	Priority Rehab Program		
1548	299B6015	East WRF	5	2	5 x 2	Priority Rehab Program		
1549	317B5070	East WRF	5	2	5 x 2	Priority Rehab Program	SUMMERLIN DR	2019
1550	308A1040	East WRF	5	2	5 x 2	Priority Rehab Program		
1551	315B7020	East WRF	5	2	5 x 2	Priority Rehab Program		
1552	288B8050	East WRF	5	2	5 x 2	Priority Rehab Program		
1553	288B7030	East WRF	5	2	5 x 2	Priority Rehab Program		
1554	297A3135	East WRF	5	2	5 x 2	Priority Rehab Program	S LAKE DR	2021
1555	314B7050	East WRF	5	2	5 x 2	Priority Rehab Program		
1556	306B6035	East WRF	5	2	5 x 2	Priority Rehab Program		
1557	300A1025	East WRF	5	2	5 x 2	Priority Rehab Program		
1558	297B5085	East WRF	5	2	5 x 2	Priority Rehab Program	SPENCER AVE	2021
1559	289A2050	East WRF	5	2	5 x 2	Priority Rehab Program		
1560	288B8060	East WRF	5	2	5 x 2	Priority Rehab Program		
1561	297B5060	East WRF	5	2	5 x 2	Priority Rehab Program	YELVINGTON AVE	2021
1562	297B6115	East WRF	5	2	5 x 2	Priority Rehab Program		
1563	314B8075	East WRF	5	2	5 x 2	Priority Rehab Program		
1564	298A2055	East WRF	5	2	5 x 2	Priority Rehab Program		
1565	298A4095	East WRF	5	2	5 x 2	Priority Rehab Program		
1566	316A2065	East WRF	5	2	5 x 2	Priority Rehab Program		
1567	297B6030	East WRF	5	2	5 x 2	Priority Rehab Program		
1568	309A3040	East WRF	5	2	5 x 2	Priority Rehab Program	GLENMOOR CT	2019
1569	297B6015	East WRF	5	2	5 x 2	Priority Rehab Program	SPENCER AVE	2021
1570	289A4050	East WRF	5	2	5 x 2	Priority Rehab Program		
1571	289A2055	East WRF	5	2	5 x 2	Priority Rehab Program		
1572	MH137	East WRF	5	2	5 x 2	Priority Rehab Program		
1573	314B7020	East WRF	5	2	5 x 2	Priority Rehab Program		
1574	309B5040	East WRF	5	2	5 x 2	Priority Rehab Program		
1575	298A1115	East WRF	5	2	5 x 2	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
1576	288B6050	East WRF	5	2	5 x 2	Priority Rehab Program		
1577	309B5085	East WRF	5	2	5 x 2	Priority Rehab Program		
1578	309B7105	East WRF	5	2	5 x 2	Priority Rehab Program		
1579	283A3105	East WRF	5	2	5 x 2	Priority Rehab Program	SAN MATEO ST	2019
1580	297B7145	East WRF	5	2	5 x 2	Priority Rehab Program		
1581	298A4115	East WRF	5	2	5 x 2	Priority Rehab Program		
1582	296B8165	East WRF	5	2	5 x 2	Priority Rehab Program		
1583	297A3100	East WRF	5	2	5 x 2	Priority Rehab Program	SKYVIEW AVE	2021
1584	289A4025	East WRF	5	2	5 x 2	Priority Rehab Program		
1585	307A1100	East WRF	5	2	5 x 2	Priority Rehab Program		
1586	297B5075	East WRF	5	2	5 x 2	Priority Rehab Program	TURNER ST	2021
1587	309A3115	East WRF	5	2	5 x 2	Priority Rehab Program	FLUSHING AVE	2019
1588	298B6010	East WRF	5	2	5 x 2	Priority Rehab Program		
1589	297B5080	East WRF	5	2	5 x 2	Priority Rehab Program	S KEYSTONE AVE	2021
1590	288B7045	East WRF	5	2	5 x 2	Priority Rehab Program		
1591	300A1010	East WRF	5	2	5 x 2	Priority Rehab Program		
1592	298B8005	East WRF	5	2	5 x 2	Priority Rehab Program		
1593	297A3090	East WRF	5	2	5 x 2	Priority Rehab Program	TURNER ST	2021
1594	314B7005	East WRF	5	2	5 x 2	Priority Rehab Program		
1595	309B5005	East WRF	5	2	5 x 2	Priority Rehab Program		
1596	290A4020	East WRF	5	2	5 x 2	Priority Rehab Program		
1597	308A3060	East WRF	5	2	5 x 2	Priority Rehab Program		
1598	317A1055	East WRF	5	2	5 x 2	Priority Rehab Program		
1599	299B6010	East WRF	5	2	5 x 2	Priority Rehab Program		
1600	308A1035	East WRF	5	2	5 x 2	Priority Rehab Program		
1601	289B6135	East WRF	5	2	5 x 2	Priority Rehab Program		
1602	309B6015	East WRF	5	2	5 x 2	Priority Rehab Program	MORELAND DR	2019
1603	297B6035	East WRF	5	2	5 x 2	Priority Rehab Program		
1604	299A1065	East WRF	5	2	5 x 2	Priority Rehab Program		
1605	298B5105	East WRF	5	2	5 x 2	Priority Rehab Program		
1606	290B6050	East WRF	5	2	5 x 2	Priority Rehab Program		
1607	317B5050	East WRF	5	2	5 x 2	Priority Rehab Program	SUMMERLIN DR	2019
1608	309B7055	East WRF	5	2	5 x 2	Priority Rehab Program		
1609	317B5045	East WRF	5	2	5 x 2	Priority Rehab Program	SUMMERLIN DR	2019
1610	309B6010	East WRF	5	2	5 x 2	Priority Rehab Program	MORELAND DR	2019
1611	316B5080	East WRF	5	2	5 x 2	Priority Rehab Program	S HERCULES AVE	2020
1612	297A4100	East WRF	5	2	5 x 2	Priority Rehab Program		
1613	290B6055	East WRF	5	2	5 x 2	Priority Rehab Program		
1614	316B5045	East WRF	5	2	5 x 2	Priority Rehab Program	S HERCULES AVE	2020
1615	307A1175	East WRF	5	2	5 x 2	Priority Rehab Program		
1616	307B5045	East WRF	5	2	5 x 2	Priority Rehab Program		
1617	314B5055	East WRF	5	2	5 x 2	Priority Rehab Program		
1618	289B5010	East WRF	5	2	5 x 2	Priority Rehab Program		
1619	289A3080	East WRF	5	2	5 x 2	Priority Rehab Program		
1620	289A4020	East WRF	5	2	5 x 2	Priority Rehab Program		
1621	289A4080	East WRF	5	2	5 x 2	Priority Rehab Program		
1622	314B7190	East WRF	5	2	5 x 2	Priority Rehab Program		
1623	315A1005	East WRF	5	2	5 x 2	Priority Rehab Program		
1624	315A2050	East WRF	5	2	5 x 2	Priority Rehab Program		
1625	307A1070	East WRF	5	2	5 x 2	Priority Rehab Program		
1626	290B6015	East WRF	5	2	5 x 2	Priority Rehab Program		
1627	290A4045	East WRF	5	2	5 x 2	Priority Rehab Program		
1628	283B5025	East WRF	5	2	5 x 2	Priority Rehab Program	SAN PEDRO ST	2019
1629	283A3055	East WRF	5	2	5 x 2	Priority Rehab Program	SAN BERNADINO ST	2019
1630	288B6055	East WRF	5	2	5 x 2	Priority Rehab Program		
1631	316B5015	East WRF	5	2	5 x 2	Priority Rehab Program	S HERCULES AVE	2020
1632	316A2040	East WRF	5	2	5 x 2	Priority Rehab Program		
1633	308B6095	East WRF	5	2	5 x 2	Priority Rehab Program	AMBASSADOR DR	2020
1634	290A4075	East WRF	5	2	5 x 2	Priority Rehab Program		
1635	315B6035	East WRF	5	2	5 x 2	Priority Rehab Program		
1636	314B8100	East WRF	5	2	5 x 2	Priority Rehab Program		
1637	309A4100	East WRF	5	2	5 x 2	Priority Rehab Program	WILLIAMS DR	2019
1638	298B5100	East WRF	5	2	5 x 2	Priority Rehab Program		
1639	290B6080	East WRF	5	2	5 x 2	Priority Rehab Program		
1640	290B6070	East WRF	5	2	5 x 2	Priority Rehab Program		
1641	290B6085	East WRF	5	2	5 x 2	Priority Rehab Program		
1642	309A1020	East WRF	5	2	5 x 2	Priority Rehab Program	GLENMOOR RD N	2019
1643	309B7075	East WRF	5	2	5 x 2	Priority Rehab Program		
1644	309A4075	East WRF	5	2	5 x 2	Priority Rehab Program	STEWART BLVD	2019
1645	309B7045	East WRF	5	2	5 x 2	Priority Rehab Program		
1646	283A3065	East WRF	5	2	5 x 2	Priority Rehab Program	MADERA AVE	2019
1647	296B8170	East WRF	5	2	5 x 2	Priority Rehab Program		
1648	288B8025	East WRF	5	2	5 x 2	Priority Rehab Program		
1649	297B5100	East WRF	5	2	5 x 2	Priority Rehab Program	S KEYSTONE AVE	2021
1650	289B6090	East WRF	5	2	5 x 2	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
1651	309B7070	East WRF	5	2	5 x 2	Priority Rehab Program		
1652	309A3050	East WRF	5	2	5 x 2	Priority Rehab Program	FLUSHING AVE	2019
1653	317A1070	East WRF	5	2	5 x 2	Priority Rehab Program		
1654	317A1060	East WRF	5	2	5 x 2	Priority Rehab Program		
1655	309A4080	East WRF	5	2	5 x 2	Priority Rehab Program	WILLIAMS DR	2019
1656	297B5070	East WRF	5	2	5 x 2	Priority Rehab Program	TURNER ST	2021
1657	289B5040	East WRF	5	2	5 x 2	Priority Rehab Program		
1658	289B5030	East WRF	5	2	5 x 2	Priority Rehab Program		
1659	289A2035	East WRF	5	2	5 x 2	Priority Rehab Program		
1660	306B7095	East WRF	5	2	5 x 2	Priority Rehab Program		
1661	309B7100	East WRF	5	2	5 x 2	Priority Rehab Program		
1662	314B7140	East WRF	5	2	5 x 2	Priority Rehab Program		
1663	297B7095	East WRF	5	2	5 x 2	Priority Rehab Program	TURNER ST	2021
1664	MH136	East WRF	5	2	5 x 2	Priority Rehab Program		
1665	309B6070	East WRF	5	2	5 x 2	Priority Rehab Program		
1666	298B8145	East WRF	5	2	5 x 2	Priority Rehab Program		
1667	297B6060	East WRF	5	2	5 x 2	Priority Rehab Program		
1668	309B6045	East WRF	5	1	5 x 1	Priority Rehab Program		
1669	309B6040	East WRF	5	1	5 x 1	Priority Rehab Program		
1670	297B6055	East WRF	5	1	5 x 1	Priority Rehab Program		
1671	309B6060	East WRF	5	1	5 x 1	Priority Rehab Program		
1672	298B8105	East WRF	5	1	5 x 1	Priority Rehab Program		
1673	298B8110	East WRF	5	1	5 x 1	Priority Rehab Program		
1674	298B8120	East WRF	5	1	5 x 1	Priority Rehab Program		
1675	308B5125	East WRF	4	4	4 x 4	Priority Rehab Program		
1676	301A3005	East WRF	4	4	4 x 4	Priority Rehab Program		
1677	308A3130	East WRF	4	4	4 x 4	Priority Rehab Program		
1678	308B8120	East WRF	4	4	4 x 4	Priority Rehab Program		
1679	308B8115	East WRF	4	4	4 x 4	Priority Rehab Program		
1680	301A3007	East WRF	4	4	4 x 4	Priority Rehab Program		
1681	308A3135	East WRF	4	4	4 x 4	Priority Rehab Program		
1682	308A3120	East WRF	4	4	4 x 4	Priority Rehab Program		
1683	308A3085	East WRF	4	4	4 x 4	Priority Rehab Program		
1684	292B5020	East WRF	4	4	4 x 4	Priority Rehab Program	BAYSHORE BLVD	2019
1685	308A3115	East WRF	4	4	4 x 4	Priority Rehab Program		
1686	316B7030	East WRF	4	4	4 x 4	Priority Rehab Program		
1687	309B8010	East WRF	4	4	4 x 4	Priority Rehab Program		
1688	283B6040	East WRF	4	4	4 x 4	Priority Rehab Program	BAYSHORE BLVD	2019
1689	274B8135	East WRF	4	4	4 x 4	Priority Rehab Program		
1690	301A3015	East WRF	4	4	4 x 4	Priority Rehab Program		
1691	274B8130	East WRF	4	4	4 x 4	Priority Rehab Program	BAYSHORE BLVD	2019
1692	283B8005	East WRF	4	4	4 x 4	Priority Rehab Program	BAYSHORE BLVD	2019
1693	283B8025	East WRF	4	4	4 x 4	Priority Rehab Program	BAYSHORE BLVD	2019
1694	283B6060	East WRF	4	4	4 x 4	Priority Rehab Program	BAYSHORE BLVD	2019
1695	308B5140	East WRF	4	4	4 x 4	Priority Rehab Program		
1696	283B6050	East WRF	4	4	4 x 4	Priority Rehab Program	BAYSHORE BLVD	2019
1697	308B6120	East WRF	4	4	4 x 4	Priority Rehab Program		
1698	301A3010	East WRF	4	4	4 x 4	Priority Rehab Program		
1699	308A3090	East WRF	4	4	4 x 4	Priority Rehab Program		
1700	308B6010	East WRF	4	4	4 x 4	Priority Rehab Program		
1701	283B7065	East WRF	4	4	4 x 4	Priority Rehab Program	NA	2019
1702	283B7080	East WRF	4	4	4 x 4	Priority Rehab Program	BAYSHORE BLVD	2019
1703	283B8015	East WRF	4	4	4 x 4	Priority Rehab Program	BAYSHORE BLVD	2019
1704	283B6080	East WRF	4	4	4 x 4	Priority Rehab Program	BAYSHORE BLVD	2019
1705	274B8140	East WRF	4	4	4 x 4	Priority Rehab Program		
1706	274B7010	East WRF	4	4	4 x 4	Priority Rehab Program	ARLIE AVE	2018
1707	292A4135	East WRF	4	4	4 x 4	Priority Rehab Program		
1708	274A4011	East WRF	4	4	4 x 4	Priority Rehab Program		
1709	292B5015	East WRF	4	4	4 x 4	Priority Rehab Program	BAYSHORE BLVD	2019
1710	289A2080	East WRF	4	4	4 x 4	Priority Rehab Program		
1711	308B6115	East WRF	4	4	4 x 4	Priority Rehab Program	EMBASSY DR	2020
1712	275A1025	East WRF	4	4	4 x 4	Priority Rehab Program	ARLIE AVE	2018
1713	292A2090	East WRF	4	4	4 x 4	Priority Rehab Program		
1714	316A4095	East WRF	4	3	4 x 3	Priority Rehab Program		
1715	290B8025	East WRF	4	3	4 x 3	Priority Rehab Program		
1716	298A4025	East WRF	4	3	4 x 3	Priority Rehab Program		
1717	289A1005	East WRF	4	3	4 x 3	Priority Rehab Program		
1718	292A3020	East WRF	4	3	4 x 3	Priority Rehab Program	BAYSHORE BLVD	2019
1719	307A1150	East WRF	4	3	4 x 3	Priority Rehab Program		
1720	306B7215	East WRF	4	3	4 x 3	Priority Rehab Program		
1721	290B6090	East WRF	4	3	4 x 3	Priority Rehab Program		
1722	300A1006	East WRF	4	3	4 x 3	Priority Rehab Program		
1723	309B6085	East WRF	4	3	4 x 3	Priority Rehab Program	HARN BLVD	2019
1724	274A4015	East WRF	4	3	4 x 3	Priority Rehab Program		
1725	290A2125	East WRF	4	3	4 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
1726	290B8080	East WRF	4	3	4 x 3	Priority Rehab Program		
1727	299B6060	East WRF	4	3	4 x 3	Priority Rehab Program		
1728	307A4005	East WRF	4	3	4 x 3	Priority Rehab Program		
1729	307A4010	East WRF	4	3	4 x 3	Priority Rehab Program		
1730	315B8010	East WRF	4	3	4 x 3	Priority Rehab Program		
1731	297A3210	East WRF	4	3	4 x 3	Priority Rehab Program		
1732	307A3081	East WRF	4	3	4 x 3	Priority Rehab Program		
1733	307A3005	East WRF	4	3	4 x 3	Priority Rehab Program		
1734	316B7065	East WRF	4	3	4 x 3	Priority Rehab Program		
1735	297A4110	East WRF	4	3	4 x 3	Priority Rehab Program		
1736	316B7095	East WRF	4	3	4 x 3	Priority Rehab Program		
1737	306B8015	East WRF	4	3	4 x 3	Priority Rehab Program		
1738	315B8055	East WRF	4	3	4 x 3	Priority Rehab Program		
1739	307A3095	East WRF	4	3	4 x 3	Priority Rehab Program		
1740	274A4045	East WRF	4	3	4 x 3	Priority Rehab Program		
1741	297A4045	East WRF	4	3	4 x 3	Priority Rehab Program		
1742	298B6005	East WRF	4	3	4 x 3	Priority Rehab Program		
1743	297B7040	East WRF	4	3	4 x 3	Priority Rehab Program	FLORIDA AVE	2021
1744	316A2110	East WRF	4	3	4 x 3	Priority Rehab Program		
1745	288B6040	East WRF	4	3	4 x 3	Priority Rehab Program		
1746	316A4090	East WRF	4	3	4 x 3	Priority Rehab Program		
1747	291B8115	East WRF	4	3	4 x 3	Priority Rehab Program		
1748	291B8110	East WRF	4	3	4 x 3	Priority Rehab Program		
1749	288B6080	East WRF	4	3	4 x 3	Priority Rehab Program		
1750	315B8050	East WRF	4	3	4 x 3	Priority Rehab Program		
1751	308A3095	East WRF	4	3	4 x 3	Priority Rehab Program		
1752	317B5025	East WRF	4	3	4 x 3	Priority Rehab Program	FAIRBANKS DR	2019
1753	283A3120	East WRF	4	3	4 x 3	Priority Rehab Program	MADERA AVE	2019
1754	288B6130	East WRF	4	3	4 x 3	Priority Rehab Program		
1755	289A2085	East WRF	4	3	4 x 3	Priority Rehab Program		
1756	298A2025	East WRF	4	3	4 x 3	Priority Rehab Program	S ARCTURAS AVE	2021
1757	316B7060	East WRF	4	3	4 x 3	Priority Rehab Program		
1758	291B8116	East WRF	4	3	4 x 3	Priority Rehab Program		
1759	306B7210	East WRF	4	3	4 x 3	Priority Rehab Program		
1760	288B7035	East WRF	4	3	4 x 3	Priority Rehab Program		
1761	318A1030	East WRF	4	3	4 x 3	Priority Rehab Program		
1762	288B6140	East WRF	4	3	4 x 3	Priority Rehab Program	YELVINGTON AVE	2021
1763	315B8070	East WRF	4	3	4 x 3	Priority Rehab Program		
1764	317B7110	East WRF	4	3	4 x 3	Priority Rehab Program		
1765	315B8040	East WRF	4	3	4 x 3	Priority Rehab Program		
1766	308B8050	East WRF	4	3	4 x 3	Priority Rehab Program		
1767	309B6080	East WRF	4	3	4 x 3	Priority Rehab Program	HARN BLVD	2019
1768	292A1065	East WRF	4	3	4 x 3	Priority Rehab Program		
1769	308B7005	East WRF	4	3	4 x 3	Priority Rehab Program		
1770	308A2015	East WRF	4	3	4 x 3	Priority Rehab Program		
1771	308A1050	East WRF	4	3	4 x 3	Priority Rehab Program		
1772	306B7020	East WRF	4	3	4 x 3	Priority Rehab Program		
1773	292A2060	East WRF	4	3	4 x 3	Priority Rehab Program		
1774	299A1010	East WRF	4	3	4 x 3	Priority Rehab Program		
1775	308B6110	East WRF	4	3	4 x 3	Priority Rehab Program		
1776	306B8030	East WRF	4	3	4 x 3	Priority Rehab Program		
1777	309B6050	East WRF	4	3	4 x 3	Priority Rehab Program	MORELAND DR	2019
1778	298A4130	East WRF	4	3	4 x 3	Priority Rehab Program		
1779	297A3125	East WRF	4	3	4 x 3	Priority Rehab Program	SKYVIEW AVE	2021
1780	297A3120	East WRF	4	3	4 x 3	Priority Rehab Program	S GLENWOOD AVE	2021
1781	309A4110	East WRF	4	3	4 x 3	Priority Rehab Program	STEWART BLVD	2019
1782	317B5010	East WRF	4	3	4 x 3	Priority Rehab Program	FAIRBANKS DR	2019
1783	308B7015	East WRF	4	3	4 x 3	Priority Rehab Program		
1784	315A3010	East WRF	4	3	4 x 3	Priority Rehab Program		
1785	317A3005	East WRF	4	3	4 x 3	Priority Rehab Program	WHISPERING PINES DR	2019
1786	309A4105	East WRF	4	3	4 x 3	Priority Rehab Program	WILLIAMS DR	2019
1787	306B7205	East WRF	4	3	4 x 3	Priority Rehab Program		
1788	308B6080	East WRF	4	3	4 x 3	Priority Rehab Program		
1789	289A1045	East WRF	4	3	4 x 3	Priority Rehab Program		
1790	289A1040	East WRF	4	3	4 x 3	Priority Rehab Program		
1791	288B6135	East WRF	4	3	4 x 3	Priority Rehab Program		
1792	298A2075	East WRF	4	3	4 x 3	Priority Rehab Program		
1793	289B6160	East WRF	4	3	4 x 3	Priority Rehab Program		
1794	299B5075	East WRF	4	3	4 x 3	Priority Rehab Program		
1795	308B5090	East WRF	4	3	4 x 3	Priority Rehab Program		
1796	315B8030	East WRF	4	3	4 x 3	Priority Rehab Program		
1797	316B5030	East WRF	4	3	4 x 3	Priority Rehab Program	EMBASSY DR	2020
1798	297B5005	East WRF	4	3	4 x 3	Priority Rehab Program	S DUNCAN AVE	2021
1799	308B5030	East WRF	4	3	4 x 3	Priority Rehab Program		
1800	288B6085	East WRF	4	3	4 x 3	Priority Rehab Program		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
1801	291B8050	East WRF	4	3	4 x 3	Priority Rehab Program		
1802	306B7165	East WRF	4	3	4 x 3	Priority Rehab Program		
1803	314B7105	East WRF	4	3	4 x 3	Priority Rehab Program		
1804	289A4060	East WRF	4	3	4 x 3	Priority Rehab Program		
1805	315B8100	East WRF	4	3	4 x 3	Priority Rehab Program		
1806	290B8050	East WRF	4	3	4 x 3	Priority Rehab Program		
1807	297A2125	East WRF	4	3	4 x 3	Priority Rehab Program	E LOTUS PATH	2018
1808	280A2110	East WRF	4	3	4 x 3	Priority Rehab Program		
1809	274B8040	East WRF	4	3	4 x 3	Priority Rehab Program		
1810	275A2035	East WRF	4	3	4 x 3	Priority Rehab Program		
1811	274B6030	East WRF	4	3	4 x 3	Priority Rehab Program		
1812	289B6130	East WRF	4	3	4 x 3	Priority Rehab Program		
1813	292A3005	East WRF	4	3	4 x 3	Priority Rehab Program		
1814	292B5005	East WRF	4	3	4 x 3	Priority Rehab Program		
1815	299A1005	East WRF	4	3	4 x 3	Priority Rehab Program		
1816	275A2020	East WRF	4	3	4 x 3	Priority Rehab Program		
1817	289B6165	East WRF	4	3	4 x 3	Priority Rehab Program		
1818	300B5025	East WRF	4	3	4 x 3	Priority Rehab Program		
1819	288B6030	East WRF	4	3	4 x 3	Priority Rehab Program		
1820	290B8015	East WRF	4	3	4 x 3	Priority Rehab Program		
1821	298A4050	East WRF	4	3	4 x 3	Priority Rehab Program		
1822	274A4005	East WRF	4	3	4 x 3	Priority Rehab Program		
1823	300B5030	East WRF	4	3	4 x 3	Priority Rehab Program		
1824	289A1025	East WRF	4	3	4 x 3	Priority Rehab Program		
1825	299B6065	East WRF	4	3	4 x 3	Priority Rehab Program		
1826	299A4090	East WRF	4	3	4 x 3	Priority Rehab Program		
1827	300A3010	East WRF	4	3	4 x 3	Priority Rehab Program		
1828	299A4095	East WRF	4	3	4 x 3	Priority Rehab Program	FLUSHING AVE	2019
1829	299B6040	East WRF	4	3	4 x 3	Priority Rehab Program		
1830	308B8040	East WRF	4	3	4 x 3	Priority Rehab Program		
1831	308B6030	East WRF	4	3	4 x 3	Priority Rehab Program	EMBASSY DR	2020
1832	316A2120	East WRF	4	3	4 x 3	Priority Rehab Program		
1833	308B6050	East WRF	4	3	4 x 3	Priority Rehab Program	EMBASSY DR	2020
1834	292A4130	East WRF	4	3	4 x 3	Priority Rehab Program		
1835	297A3005	East WRF	4	3	4 x 3	Priority Rehab Program		
1836	297B7085	East WRF	4	3	4 x 3	Priority Rehab Program	FLORIDA AVE	2021
1837	315A3005	East WRF	4	3	4 x 3	Priority Rehab Program		
1838	308B6004	East WRF	4	3	4 x 3	Priority Rehab Program		
1839	309B8030	East WRF	4	3	4 x 3	Priority Rehab Program		
1840	308A3100	East WRF	4	3	4 x 3	Priority Rehab Program		
1841	292B5010	East WRF	4	3	4 x 3	Priority Rehab Program	BAYSHORE BLVD	2019
1842	297A3015	East WRF	4	3	4 x 3	Priority Rehab Program		
1843	308B6060	East WRF	4	3	4 x 3	Priority Rehab Program		
1844	318A1015	East WRF	4	3	4 x 3	Priority Rehab Program		
1845	308B6085	East WRF	4	3	4 x 3	Priority Rehab Program	EMBASSY DR	2020
1846	274B8030	East WRF	4	3	4 x 3	Priority Rehab Program		
1847	274B8025	East WRF	4	3	4 x 3	Priority Rehab Program		
1848	274B8055	East WRF	4	3	4 x 3	Priority Rehab Program	ROSE RD	2018
1849	274B8125	East WRF	4	3	4 x 3	Priority Rehab Program		
1850	288B6160	East WRF	4	3	4 x 3	Priority Rehab Program	S DUNCAN AVE	2021
1851	299A3135	East WRF	4	3	4 x 3	Priority Rehab Program		
1852	289A1020	East WRF	4	3	4 x 3	Priority Rehab Program		
1853	299A4105	East WRF	4	3	4 x 3	Priority Rehab Program	FLUSHING AVE	2019
1854	299A3140	East WRF	4	3	4 x 3	Priority Rehab Program		
1855	288B5115	East WRF	4	3	4 x 3	Priority Rehab Program		
1856	288B6155	East WRF	4	3	4 x 3	Priority Rehab Program		
1857	300B5015	East WRF	4	3	4 x 3	Priority Rehab Program		
1858	289A2115	East WRF	4	3	4 x 3	Priority Rehab Program		
1859	299A4100	East WRF	4	3	4 x 3	Priority Rehab Program	CHINABERRY RD	2019
1860	300A3005	East WRF	4	3	4 x 3	Priority Rehab Program		
1861	289A1015	East WRF	4	3	4 x 3	Priority Rehab Program		
1862	300A3020	East WRF	4	3	4 x 3	Priority Rehab Program		
1863	309A1100	East WRF	4	3	4 x 3	Priority Rehab Program	HARN BLVD	2019
1864	317B7105	East WRF	4	3	4 x 3	Priority Rehab Program		
1865	307A1130	East WRF	4	3	4 x 3	Priority Rehab Program		
1866	317B7035	East WRF	4	3	4 x 3	Priority Rehab Program		
1867	274B6025	East WRF	4	3	4 x 3	Priority Rehab Program		
1868	274B6005	East WRF	4	3	4 x 3	Priority Rehab Program		
1869	274B6020	East WRF	4	3	4 x 3	Priority Rehab Program		
1870	275A2025	East WRF	4	3	4 x 3	Priority Rehab Program		
1871	288B6120	East WRF	4	3	4 x 3	Priority Rehab Program		
1872	288B5090	East WRF	4	3	4 x 3	Priority Rehab Program		
1873	309B5025	East WRF	4	3	4 x 3	Priority Rehab Program		
1874	288B6145	East WRF	4	3	4 x 3	Priority Rehab Program	S KEYSTONE AVE	2021
1875	300B5020	East WRF	4	3	4 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
1876	288B6100	East WRF	4	3	4 x 3	Priority Rehab Program		
1877	308B6035	East WRF	4	3	4 x 3	Priority Rehab Program	EMBASSY DR	2020
1878	318A1040	East WRF	4	3	4 x 3	Priority Rehab Program		
1879	308A3105	East WRF	4	3	4 x 3	Priority Rehab Program		
1880	316A2105	East WRF	4	3	4 x 3	Priority Rehab Program		
1881	315B8005	East WRF	4	3	4 x 3	Priority Rehab Program		
1882	316A2115	East WRF	4	3	4 x 3	Priority Rehab Program		
1883	308B8075	East WRF	4	3	4 x 3	Priority Rehab Program		
1884	315B8025	East WRF	4	3	4 x 3	Priority Rehab Program		
1885	316A2100	East WRF	4	3	4 x 3	Priority Rehab Program		
1886	318A1005	East WRF	4	3	4 x 3	Priority Rehab Program		
1887	318A1020	East WRF	4	3	4 x 3	Priority Rehab Program		
1888	289A1070	East WRF	4	3	4 x 3	Priority Rehab Program		
1889	289A1065	East WRF	4	3	4 x 3	Priority Rehab Program		
1890	289A1035	East WRF	4	3	4 x 3	Priority Rehab Program		
1891	288B7020	East WRF	4	3	4 x 3	Priority Rehab Program		
1892	307A3090	East WRF	4	3	4 x 3	Priority Rehab Program		
1893	307A2010	East WRF	4	3	4 x 3	Priority Rehab Program		
1894	299A1070	East WRF	4	3	4 x 3	Priority Rehab Program		
1895	315B8045	East WRF	4	3	4 x 3	Priority Rehab Program		
1896	317B7055	East WRF	4	3	4 x 3	Priority Rehab Program		
1897	318A1200	East WRF	4	3	4 x 3	Priority Rehab Program		
1898	MH23	East WRF	4	3	4 x 3	Priority Rehab Program		
1899	MH30	East WRF	4	3	4 x 3	Priority Rehab Program		
1900	MH55	East WRF	4	3	4 x 3	Priority Rehab Program		
1901	MH56	East WRF	4	3	4 x 3	Priority Rehab Program		
1902	308B8070	East WRF	4	3	4 x 3	Priority Rehab Program		
1903	274B6015	East WRF	4	3	4 x 3	Priority Rehab Program		
1904	274B8035	East WRF	4	3	4 x 3	Priority Rehab Program		
1905	297A3010	East WRF	4	3	4 x 3	Priority Rehab Program	S CREST AVE	2021
1906	299A4005	East WRF	4	3	4 x 3	Priority Rehab Program		
1907	297A3020	East WRF	4	3	4 x 3	Priority Rehab Program	S LAKE DR	2021
1908	288B6005	East WRF	4	3	4 x 3	Priority Rehab Program		
1909	318A1025	East WRF	4	3	4 x 3	Priority Rehab Program		
1910	318A1055	East WRF	4	3	4 x 3	Priority Rehab Program		
1911	292A2065	East WRF	4	3	4 x 3	Priority Rehab Program		
1912	315B8020	East WRF	4	3	4 x 3	Priority Rehab Program		
1913	318A1035	East WRF	4	3	4 x 3	Priority Rehab Program		
1914	290A2130	East WRF	4	3	4 x 3	Priority Rehab Program		
1915	299A1120	East WRF	4	3	4 x 3	Priority Rehab Program		
1916	318A1010	East WRF	4	3	4 x 3	Priority Rehab Program		
1917	308B6025	East WRF	4	3	4 x 3	Priority Rehab Program	CORONET LN	2020
1918	300A9000	East WRF	4	3	4 x 3	Priority Rehab Program		
1919	307A3035	East WRF	4	3	4 x 3	Priority Rehab Program		
1920	299A1090	East WRF	4	3	4 x 3	Priority Rehab Program		
1921	308B5095	East WRF	4	3	4 x 3	Priority Rehab Program		
1922	315B8015	East WRF	4	3	4 x 3	Priority Rehab Program		
1923	275A2050	East WRF	4	3	4 x 3	Priority Rehab Program		
1924	274B7005	East WRF	4	3	4 x 3	Priority Rehab Program		
1925	300B7015	East WRF	4	3	4 x 3	Priority Rehab Program		
1926	308B6045	East WRF	4	3	4 x 3	Priority Rehab Program		
1927	316A2095	East WRF	4	3	4 x 3	Priority Rehab Program		
1928	318A1060	East WRF	4	3	4 x 3	Priority Rehab Program		
1929	300B5005	East WRF	4	3	4 x 3	Priority Rehab Program		
1930	283B7075	East WRF	4	3	4 x 3	Priority Rehab Program	SAN MATEO ST	2019
1931	300B7010	East WRF	4	3	4 x 3	Priority Rehab Program		
1932	288B5095	East WRF	4	3	4 x 3	Priority Rehab Program		
1933	289B6180	East WRF	4	3	4 x 3	Priority Rehab Program		
1934	283B7040	East WRF	4	3	4 x 3	Priority Rehab Program	SAN PEDRO ST	2019
1935	307A3025	East WRF	4	3	4 x 3	Priority Rehab Program		
1936	297A4075	East WRF	4	3	4 x 3	Priority Rehab Program		
1937	283A3115	East WRF	4	3	4 x 3	Priority Rehab Program	MADERA AVE	2019
1938	288B6150	East WRF	4	3	4 x 3	Priority Rehab Program	S DUNCAN AVE	2021
1939	309A2005	East WRF	4	3	4 x 3	Priority Rehab Program		
1940	299A4130	East WRF	4	3	4 x 3	Priority Rehab Program	FLUSHING AVE	2019
1941	316B7090	East WRF	4	3	4 x 3	Priority Rehab Program		
1942	297A2185	East WRF	4	3	4 x 3	Priority Rehab Program		
1943	316A2090	East WRF	4	3	4 x 3	Priority Rehab Program		
1944	308B5105	East WRF	4	3	4 x 3	Priority Rehab Program		
1945	308B8045	East WRF	4	3	4 x 3	Priority Rehab Program		
1946	283B7060	East WRF	4	3	4 x 3	Priority Rehab Program	SAN BERNADINO ST	2019
1947	299A4085	East WRF	4	3	4 x 3	Priority Rehab Program		
1948	298B5015	East WRF	4	3	4 x 3	Priority Rehab Program		
1949	274B8020	East WRF	4	3	4 x 3	Priority Rehab Program	ROSE RD	2018
1950	283B7020	East WRF	4	3	4 x 3	Priority Rehab Program	SAN JOSE ST	2019

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
1951	290B6025	East WRF	4	3	4 x 3	Priority Rehab Program		
1952	318A1050	East WRF	4	3	4 x 3	Priority Rehab Program		
1953	308B8080	East WRF	4	3	4 x 3	Priority Rehab Program		
1954	306B8075	East WRF	4	3	4 x 3	Priority Rehab Program		
1955	299A1060	East WRF	4	3	4 x 3	Priority Rehab Program		
1956	309B8025	East WRF	4	3	4 x 3	Priority Rehab Program		
1957	308B8015	East WRF	4	3	4 x 3	Priority Rehab Program		
1958	275A2010	East WRF	4	3	4 x 3	Priority Rehab Program	BAYSHORE BLVD	2019
1959	316B8030	East WRF	4	3	4 x 3	Priority Rehab Program		
1960	317B7040	East WRF	4	3	4 x 3	Priority Rehab Program		
1961	288B5125	East WRF	4	3	4 x 3	Priority Rehab Program		
1962	299A1025	East WRF	4	3	4 x 3	Priority Rehab Program		
1963	288B5025	East WRF	4	3	4 x 3	Priority Rehab Program		
1964	309B6065	East WRF	4	3	4 x 3	Priority Rehab Program	SUMMERLIN DR	2019
1965	317A1075	East WRF	4	3	4 x 3	Priority Rehab Program		
1966	290B6035	East WRF	4	3	4 x 3	Priority Rehab Program		
1967	292A4010	East WRF	4	3	4 x 3	Priority Rehab Program		
1968	309B5050	East WRF	4	3	4 x 3	Priority Rehab Program		
1969	298B5030	East WRF	4	3	4 x 3	Priority Rehab Program		
1970	288B8040	East WRF	4	3	4 x 3	Priority Rehab Program		
1971	306B8035	East WRF	4	3	4 x 3	Priority Rehab Program		
1972	290B6095	East WRF	4	3	4 x 3	Priority Rehab Program		
1973	307A1020	East WRF	4	3	4 x 3	Priority Rehab Program		
1974	291B6095	East WRF	4	3	4 x 3	Priority Rehab Program		
1975	297A4010	East WRF	4	3	4 x 3	Priority Rehab Program	S GLENWOOD AVE	2021
1976	297A4015	East WRF	4	3	4 x 3	Priority Rehab Program	SKYVIEW AVE	2021
1977	290B8075	East WRF	4	3	4 x 3	Priority Rehab Program		
1978	308A3020	East WRF	4	3	4 x 3	Priority Rehab Program		
1979	315A2080	East WRF	4	3	4 x 3	Priority Rehab Program		
1980	310A2010	East WRF	4	3	4 x 3	Priority Rehab Program		
1981	288B7060	East WRF	4	3	4 x 3	Priority Rehab Program		
1982	290A2025	East WRF	4	3	4 x 3	Priority Rehab Program		
1983	308B5025	East WRF	4	3	4 x 3	Priority Rehab Program		
1984	308A1030	East WRF	4	3	4 x 3	Priority Rehab Program		
1985	306B8055	East WRF	4	3	4 x 3	Priority Rehab Program		
1986	298B6065	East WRF	4	3	4 x 3	Priority Rehab Program		
1987	300B7055	East WRF	4	3	4 x 3	Priority Rehab Program		
1988	289B7065	Northeast WRF	5	3	5 x 3	Priority Rehab Program	S STARCREST DR	2018
1989	271B6025	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
1990	273A4065	Northeast WRF	5	3	5 x 3	Priority Rehab Program	APPLEWOOD DR	2020
1991	264A4130	Northeast WRF	5	3	5 x 3	Priority Rehab Program	EVANS DR	2022
1992	291A3010	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
1993	234A1045	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
1994	232B5105	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
1995	222A3010	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
1996	222B7045	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
1997	222A1025	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
1998	273A3005	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
1999	273A4050	Northeast WRF	5	3	5 x 3	Priority Rehab Program	BEACHWOOD AVE	2020
2000	264A1045	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2001	233A2020	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2002	233A2010	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2003	273A2005	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2004	273A4040	Northeast WRF	5	3	5 x 3	Priority Rehab Program	BEACHWOOD AVE	2020
2005	222B8110	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2006	264A2005	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2007	271A4035	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2008	253A4100	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2009	272B7005	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2010	234A1040	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2011	232B8020	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2012	234A1080	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2013	233A3020	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2014	282A3015	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2015	234A1050	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2016	233A3025	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2017	222A1040	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2018	282A3020	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2019	273B6105	Northeast WRF	5	3	5 x 3	Priority Rehab Program	APPLEWOOD DR	2020
2020	232B8015	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2021	289B7105	Northeast WRF	5	3	5 x 3	Priority Rehab Program	S STARCREST DR	2018
2022	279B8050	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2023	232B8025	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2024	222A3005	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2025	232B5100	Northeast WRF	5	3	5 x 3	Priority Rehab Program		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
2026	254B8065	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2027	282A3025	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2028	271A4015	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2029	280B5170	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2030	233A1065	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2031	271B6020	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2032	262A1005	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2033	254B8060	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2034	282A4070	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2035	290B5015	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2036	280B5110	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2037	271A4005	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2038	265A2040	Northeast WRF	5	3	5 x 3	Priority Rehab Program	SARAH DR	2022
2039	274A2010	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2040	279B8075	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2041	281B5005	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2042	233B5060	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2043	233A1075	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2044	290A3065	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2045	289B8025	Northeast WRF	5	3	5 x 3	Priority Rehab Program	S STARCREST DR	2018
2046	273A3125	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2047	273A2010	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2048	265A2030	Northeast WRF	5	3	5 x 3	Priority Rehab Program	SARAH DR	2022
2049	264A1030	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2050	261B7010	Northeast WRF	5	3	5 x 3	Priority Rehab Program		
2051	261B7050	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2052	233B5045	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2053	232A2090	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2054	281A3045	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2055	262B7065	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2056	262B7095	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2057	189B6015	Northeast WRF	5	2	5 x 2	Priority Rehab Program	MASTERS DR	2022
2058	273B6075	Northeast WRF	5	2	5 x 2	Priority Rehab Program	FAIRWOOD AVE	2020
2059	261B7005	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2060	261B7025	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2061	263A3040	Northeast WRF	5	2	5 x 2	Priority Rehab Program	PRINCETON DR	2020
2062	281A3065	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2063	211B6050	Northeast WRF	5	2	5 x 2	Priority Rehab Program	FOREST VIEW DR	2022
2064	233B5015	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2065	200B5050	Northeast WRF	5	2	5 x 2	Priority Rehab Program	EAGLE ESTATES CIR N	2018
2066	244B8060	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2067	264A2020	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2068	271A4030	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2069	178A1070	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2070	272B5045	Northeast WRF	5	2	5 x 2	Priority Rehab Program	RIDGE TOP WAY	2023
2071	189A4005	Northeast WRF	5	2	5 x 2	Priority Rehab Program	SUN GLOW WAY	2022
2072	281A3070	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2073	261B7065	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2074	261B7085	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2075	281A2005	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2076	253A4080	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2077	261B8020	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2078	263A3020	Northeast WRF	5	2	5 x 2	Priority Rehab Program	PRINCETON DR	2020
2079	244B8075	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2080	253A4095	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2081	281A2025	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2082	222B8115	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2083	188B1000	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2084	272B5055	Northeast WRF	5	2	5 x 2	Priority Rehab Program	RIDGE TOP WAY	2023
2085	178A2010	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2086	244A1020	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2087	178A1100	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2088	232A2085	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2089	211A4030	Northeast WRF	5	2	5 x 2	Priority Rehab Program	LONG VIEW DR	2022
2090	262B7090	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2091	261B7090	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2092	273B6040	Northeast WRF	5	2	5 x 2	Priority Rehab Program	FAIRWOOD AVE	2020
2093	289B8050	Northeast WRF	5	2	5 x 2	Priority Rehab Program	S STARCREST DR	2018
2094	233B5055	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2095	233B5035	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2096	200B5045	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2097	280A4085	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2098	211A4010	Northeast WRF	5	2	5 x 2	Priority Rehab Program	LONG VIEW DR	2022
2099	264A1025	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2100	261B7030	Northeast WRF	5	2	5 x 2	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
2101	261B7095	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2102	261B7100	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2103	261B7105	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2104	261B7070	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2105	261B7110	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2106	273A3130	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2107	280A4090	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2108	264A1015	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2109	178A1095	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2110	244A1015	Northeast WRF	5	2	5 x 2	Priority Rehab Program		
2111	273A2080	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2112	272B8035	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2113	273A2060	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2114	271B7085	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2115	282B5030	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2116	281B8095	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2117	281B8070	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2118	272A1035	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2119	273B6145	Northeast WRF	4	4	4 x 4	Priority Rehab Program	PARK TRAIL LN	2020
2120	281B5035	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2121	273A4090	Northeast WRF	4	4	4 x 4	Priority Rehab Program	PARK TRAIL LN	2020
2122	272A4075	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2123	272A4065	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2124	272A1040	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2125	262B8075	Northeast WRF	4	4	4 x 4	Priority Rehab Program	S LAGOON CIR	2023
2126	282A4075	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2127	274A4010	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2128	274A2707	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2129	221A4075	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2130	279B8005	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2131	282A4085	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2132	271B8020	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2133	273A4095	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2134	265A2075	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2135	280B8105	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2136	271B8045	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2137	265A2085	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2138	281B8035	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2139	281B8050	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2140	281B8020	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2141	282A3004	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2142	271B8050	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2143	271B8010	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2144	273A2065	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2145	282A3005	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2146	281B8040	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2147	265A4015	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2148	271B8025	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2149	271B8225	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2150	281A2050	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2151	281B7040	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2152	289B7005	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2153	281B6015	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2154	280B8115	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2155	273B8085	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2156	290B5010	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2157	273A2050	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2158	272B8045	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2159	282B5025	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2160	265A2090	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2161	265A2035	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2162	274A2708	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2163	221A4050	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2164	280B5025	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2165	282B2077	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2166	273A3110	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2167	272A4040	Northeast WRF	4	4	4 x 4	Priority Rehab Program		
2168	221B6060	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2169	271A3055	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2170	280B5105	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2171	280A4105	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2172	273A2040	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2173	273A3145	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2174	280B8095	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2175	289B7030	Northeast WRF	4	3	4 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
2176	281B8115	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2177	280A4125	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2178	263A1135	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2179	271B6015	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2180	264A2075	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2181	271A4010	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2182	273A2015	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2183	271A3005	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2184	280B6120	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2185	271B6010	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2186	271B6005	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2187	271B7095	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2188	280B7025	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2189	271A3015	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2190	281A2040	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2191	281A3005	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2192	289B7080	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2193	281B8120	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2194	232B5080	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2195	273A1120	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2196	271A3010	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2197	221A3065	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2198	280B8135	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2199	280B6125	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2200	272A4080	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2201	280B7010	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2202	264A1040	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2203	271B7090	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2204	290B7010	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2205	279B8010	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2206	255A2075	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2207	274A2025	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2208	279B8020	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2209	264A2080	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2210	274A2015	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2211	280B8010	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2212	290B7015	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2213	MH86	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2214	254B6040	Northeast WRF	4	3	4 x 3	Priority Rehab Program	E SKYLINE DR	2020
2215	264A2045	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2216	223A1030	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2217	280B5140	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2218	281A4025	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2219	281A1105	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2220	273A3120	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2221	279B8060	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2222	221A3085	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2223	256A2145	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2224	264A4010	Northeast WRF	4	3	4 x 3	Priority Rehab Program	N TERRACE DR	2022
2225	232A3005	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2226	271B8005	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2227	264A1005	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2228	281A2015	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2229	280B8005	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2230	221B8055	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2231	279B8015	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2232	273A2045	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2233	281A2045	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2234	289B7055	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2235	281A1050	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2236	256A2110	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2237	281A1020	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2238	280B8125	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2239	279B8035	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2240	200B5010	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2241	200B5030	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2242	200B5015	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2243	289B7045	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2244	279B8055	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2245	280B8045	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2246	281A1049	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2247	281B7005	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2248	281B7025	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2249	280B8090	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2250	289B7095	Northeast WRF	4	3	4 x 3	Priority Rehab Program		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
2251	255A2065	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2252	280B5160	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2253	272A4085	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2254	280B7030	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2255	282B6010	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2256	279B8070	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2257	289B7025	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2258	280B8035	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2259	282B5020	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2260	279B8090	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2261	MH121	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2262	MH122	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2263	MH152	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2264	279B8030	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2265	290B5005	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2266	223A1025	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2267	281A3010	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2268	272A2035	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2269	255A2080	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2270	281B5040	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2271	264A1035	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2272	273A3070	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2273	255A2070	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2274	273A3105	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2275	200B5035	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2276	272A1050	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2277	280B5145	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2278	273A2030	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2279	273A2035	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2280	232B8010	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2281	290A1040	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2282	281A1065	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2283	280B6105	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2284	279B8025	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2285	274A2045	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2286	289B8040	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2287	221A4005	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2288	289B7060	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2289	280A4100	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2290	279B8045	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2291	221A3090	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2292	274A2030	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2293	289B7100	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2294	290A1045	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2295	280A4120	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2296	280B5165	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2297	280B6110	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2298	280B6100	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2299	189B6055	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2300	281A4010	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2301	256A2100	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2302	263B5005	Northeast WRF	4	3	4 x 3	Priority Rehab Program	E SKYLINE DR	2020
2303	256A2115	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2304	256A2140	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2305	211B8100	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2306	264A4005	Northeast WRF	4	3	4 x 3	Priority Rehab Program	EVANS DR	2022
2307	281A2035	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2308	281B7020	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2309	281B7010	Northeast WRF	4	3	4 x 3	Priority Rehab Program		
2310	201A2025	Northeast WRF	3	5	3 x 5	Priority Rehab Program		
2311	271B7075	Northeast WRF	3	5	3 x 5	Priority Rehab Program		
2312	271B7065	Northeast WRF	3	5	3 x 5	Priority Rehab Program		
2313	271B7080	Northeast WRF	3	5	3 x 5	Priority Rehab Program		
2314	295B7115	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2315	252A1070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	S RIDGELANE CIR	2019
2316	252A4020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2317	252A1075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	RIDGELANE RD	2019
2318	238A3035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MANDALAY AVE	2021
2319	249A3085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MANDALAY AVE	2021
2320	249A3035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MANDALAY AVE	2021
2321	252A4155	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2322	269A1115	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2323	269A4095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2324	269B6130	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2325	277B7150	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ALDEN AVE	2018

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
2326	288A1130	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	PARK ST	2020
2327	252B8105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2328	251A2055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SEDEEVA ST	2023
2329	260B8020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2330	277B7055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2331	270B6025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	WEBB DR	2018
2332	258A3050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MANDALAY AVE	2021
2333	270B6035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	CASLER AVE	2018
2334	261A1110	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2335	277B7060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2336	270A1100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2337	269A1070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2338	261B6105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	LOGAN ST	2018
2339	276A3020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2340	271A1005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2341	269A1130	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2342	270B5080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2343	268B7040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MARSHALL ST	2022
2344	270B8075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N SATURN AVE	2018
2345	269A1040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2346	268B7100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2347	260B8015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2348	261A1095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2349	270A1105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2350	261A4110	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2351	276A3015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2352	288A2085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2353	270B8085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N SATURN AVE	2018
2354	249A4150	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ASTER ST	2021
2355	259B7005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	VENETIAN POINT DR	2022
2356	268B7075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2357	296B5050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2358	279A2100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ORANGEVIEW AVE	2020
2359	277B7170	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2360	287A3030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	NE CLEVELAND ST	2021
2361	279B5015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2362	270B5030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SCOTT ST	2018
2363	279A3090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2364	252A4085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2365	269A1125	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2366	279A2035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MAPLE ST	2020
2367	261A4105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2368	261B8075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2369	258A3030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MANDALAY AVE	2021
2370	261A4100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2371	270A4155	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2372	252A4180	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2373	252A4090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2374	270B8050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N SATURN AVE	2018
2375	261A1115	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2376	279B6030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2377	297A1055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2378	278B6120	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2379	288B5035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	GROVE ST	2020
2380	270B6040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	WEBB DR	2018
2381	260B8010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2382	279B5020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2383	279B5065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2384	258A3080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2385	295B6010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BAY AVE	2020
2386	279A2130	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	CRESTVIEW ST	2020
2387	279A4125	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2388	295B5010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ROGERS ST	2020
2389	288A2035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2390	279B6065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2391	279A2020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MAPLE ST	2020
2392	279B6040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2393	279B6080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2394	278A3060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2395	288A2105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	DE LEON ST	2020
2396	296A2060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2397	249A3031	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BRUCE AVE	2021
2398	306A1060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2399	260A1056	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2400	313B8080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
2401	305B6010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2402	260B8005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2403	279B5075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2404	279A2125	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	CRESTVIEW ST	2020
2405	238A4725	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BRUCE AVE	2021
2406	287B6040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2407	287B6010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2408	313B8075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2409	252A2070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2410	252A2060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2411	249A3015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BAY ESPLANADE	2021
2412	253A1105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2413	270B6030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	WEBB DR	2018
2414	278A3065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2415	249A4060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BRUCE AVE	2021
2416	296A2080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2417	278A2055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	PLAZA ST	2018
2418	287A3060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2419	286B8115	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2420	253A1055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2421	252B7075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2422	279A2185	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2423	277B8015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ALDEN AVE	2018
2424	279A2145	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ORANGEVIEW AVE	2020
2425	278A4070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N MADISON AVE	2018
2426	278B6100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2427	278A4050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	JACKSON RD	2018
2428	288A2075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2429	288B5030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	GROVE ST	2020
2430	287B6090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2431	287B6150	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2432	287B6050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2433	288A4010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2434	279A4085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2435	279A2070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	FOREST RD	2020
2436	287B8080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2437	279A3105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2438	288A1015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2439	296B8130	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	LOTUS PATH	2018
2440	306A3085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2441	287B5080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N LINCOLN AVE	2021
2442	313B8055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2443	287B5060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	GROVE ST	2021
2444	252A2095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2445	249A2015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ELDORADO AVE	2021
2446	252A2080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2447	252A4080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2448	249A4045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2449	252B7095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2450	252A4055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2451	252A1090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	RIDGELANE RD	2019
2452	258B6020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2453	278A2005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MAPLE ST	2018
2454	270A3060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2455	261A4095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2456	261A4125	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2457	270A2070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2458	261A4090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2459	279A4025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2460	259B8080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SUNBURST CT	2022
2461	269A1095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2462	259B8065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SUNBURST CT	2022
2463	269A2060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2464	269B5010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2465	259B7065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	VENETIAN DR	2022
2466	269B6150	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2467	277B7135	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2468	260A2050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	IROQUOIS ST	2022
2469	279A4045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2470	269A1015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2471	270B6070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	CASLER AVE	2018
2472	279B5025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2473	258A3045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ACACIA ST	2021
2474	279B6020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2475	279A4035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
2476	261A4120	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2477	279A2025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MAPLE ST	2020
2478	259B7010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	VENETIAN POINT DR	2022
2479	278A2045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	PLAZA ST	2018
2480	270B8065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N SATURN AVE	2018
2481	259B8050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SUNBURST CT	2022
2482	261B6095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2483	268A2035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2484	286B7230	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	S GARDEN AVE	2021
2485	279A4120	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2486	279A2115	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ORANGEVIEW AVE	2020
2487	295B6050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2488	285B5070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2489	286B8030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	PIERCE ST	2021
2490	288A1020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2491	295B7070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2492	295B8005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2493	295B8060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2494	279B6095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2495	296A2065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2496	279B6100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2497	279A2135	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	CRESTVIEW ST	2020
2498	288A3030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	GROVE ST	2020
2499	296A3050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2500	296A2075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2501	278A4090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N WASHINGTON AVE	2018
2502	296A3040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2503	296A2015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2504	287A4005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2505	288A2010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2506	287B5090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2507	287B8100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2508	306A4150	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2509	314A3060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2510	287B6195	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2511	305B8010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2512	322A1030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2513	305B6030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2514	305B8075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2515	313B8065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2516	287B6030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2517	251A1100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	GRANADA ST	2023
2518	252A4165	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2519	252A1055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	RIDGELANE RD	2019
2520	252A2055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	FLORA RD	2019
2521	249A3050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BRUCE AVE	2021
2522	252B7070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2523	249B5010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2524	252A4160	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2525	249A1020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ELDORADO AVE	2021
2526	252A4150	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2527	249A3010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	NARCISSUS AVE	2021
2528	252A2050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	FLORA RD	2019
2529	252A2085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2530	258A3035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ACACIA ST	2021
2531	279B5045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2532	279B5070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2533	270A3055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2534	269A1135	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2535	261B8055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2536	261A4130	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2537	268B8040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2538	270B6050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	CASLER AVE	2018
2539	261A4115	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2540	269B8070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2541	259B7045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	VENETIAN POINT DR	2022
2542	278A3055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2543	270B8035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	LONG ST	2018
2544	270A3025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SCOTT ST	2018
2545	270B7080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SHERWOOD ST	2018
2546	279A4030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2547	279A2010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MAPLE ST	2020
2548	269B5015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2549	277A1025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2550	269A4090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
2551	278A4030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N MADISON AVE	2018
2552	270A1050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2553	261A4170	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2554	258A4015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2555	277B7145	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2556	277A1020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2557	277B7015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2558	258B7030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2559	288A2150	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2560	288A2005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2561	288A1010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2562	278A4065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N WASHINGTON AVE	2018
2563	295B5105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ORANGE AVE	2020
2564	296A2050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2565	278A2090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	HART ST	2018
2566	279B6110	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2567	279B6075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2568	296A3055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2569	288A3100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2570	279A4140	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2571	286B6170	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2572	295B7075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2573	279A2120	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	CRESTVIEW ST	2020
2574	287A1020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	GROVE ST	2021
2575	279B6105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2576	288A1040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	GROVE ST	2020
2577	286B5090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	S OSCEOLA AVE	2021
2578	296A1085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2579	278B6075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	JACKSON RD	2018
2580	249A3032	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BRUCE AVE	2021
2581	267A3034	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2582	306A1065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2583	306B7065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2584	287B5055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	GROVE ST	2021
2585	285B5046	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2586	270A2065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2587	253A1100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SETON DR	2019
2588	252B7120	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2589	252B7090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2590	252B7045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2591	252B6100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2592	252B6050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2593	252B6125	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2594	252B6130	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2595	252A1005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2596	252A4105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2597	252A4110	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2598	252A2065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2599	252A2105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2600	252A2090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2601	252A2140	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2602	252A2110	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	WILSON RD	2019
2603	252A2120	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2604	251A1105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2605	260B8045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2606	260B8050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2607	260B8075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2608	261A1080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2609	261A1030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2610	261A1025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2611	261A1035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2612	261A1040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2613	261A1085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2614	261A1060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2615	261A1090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2616	261A1055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2617	261A1050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2618	261A1105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2619	261B8070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2620	261B8060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2621	261B8065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2622	261B8090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2623	261B6090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2624	267B6150	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2625	260B8065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
2626	260B8070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2627	260B8030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2628	270B5095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SHERWOOD ST	2018
2629	270B5055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2630	270B5090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2631	270B5105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	GENTRY ST	2018
2632	270B7070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2633	270B5065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	RIDGE AVE	2018
2634	270B6005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2635	270B7075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SHERWOOD ST	2018
2636	270B7105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2637	270B7095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2638	270A1045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2639	270A1080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2640	288A2185	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2641	288A1025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2642	287B5115	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2643	287B7180	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2644	287A3055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2645	305B6025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2646	269B5055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2647	269B5030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2648	269B5075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2649	268B8010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ENGMAN ST	2022
2650	268B8075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2651	268B8080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2652	268B8130	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2653	268B8145	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2654	267B5020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2655	277B8050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	HART ST	2018
2656	277B6010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2657	277B7050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2658	278A2155	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	VINE AVE	2018
2659	278B6050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N JEFFERSON AVE	2018
2660	278B6095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N JEFFERSON AVE	2018
2661	278B6055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	JACKSON RD	2018
2662	279A4040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2663	314A3055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2664	267B5035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2665	260A3045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2666	260A3065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2667	269A3200	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2668	269A4005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2669	269A3195	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2670	269A4070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2671	269A4075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2672	269A2065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2673	277B6020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2674	286B7040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	WATTERSON AVE	2021
2675	286B7045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	WATTERSON AVE	2021
2676	277B8130	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2677	277B8125	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2678	268B8135	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2679	295B5040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	TURNER ST	2020
2680	305B8095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2681	277B1015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2682	314A4175	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2683	286B1200	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	S GARDEN AVE	2021
2684	286B1205	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	S GARDEN AVE	2021
2685	286B1210	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	FRANKLIN ST	2021
2686	269A4170	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2687	269A4180	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2688	269A4185	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2689	269A4190	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2690	277B1012	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2691	277B7012	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2692	MH7	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2693	MH11	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2694	MH12	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2695	MH13	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2696	MH20	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2697	MH44	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2698	MH78	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2699	MH79	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2700	MH80	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
2701	MH92	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2702	MH94	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2703	MH95	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2704	MH109	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2705	MH114	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2706	MH117	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2707	MH118	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2708	MH119	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2709	MH120	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2710	MH127	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2711	MH128	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2712	MH134	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2713	MH139	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2714	MH140	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2715	MH142	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2716	MH143	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2717	MH157	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2718	MH158	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2719	MH159	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2720	295B5060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	OAK AVE	2020
2721	269A1010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2722	268B7050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MARSHALL ST	2022
2723	260A2035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	APACHE TRL	2022
2724	279A2030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MAPLE ST	2020
2725	306A4090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2726	269A1035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2727	252A4025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2728	259B8055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SUNBURST CT	2022
2729	259B7070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SUNSET DR	2022
2730	279A4065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2731	269B7015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2732	260B8080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2733	270B5035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SCOTT ST	2018
2734	305B6020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2735	252A3040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2736	238A3060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MANDALAY AVE	2021
2737	276A3010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2738	252A4100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2739	277A1015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2740	286B6105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2741	270A2015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2742	252A3060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2743	270B7110	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	AMBLE LN	2018
2744	259B7015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	VENETIAN POINT DR	2022
2745	260A2030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	NOKOMIS ST	2022
2746	295B7095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2747	305B7080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2748	252B6060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2749	252A4065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2750	285A3110	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2751	296B8080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MARK DR	2018
2752	288A3070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	LAURA ST	2020
2753	286B8105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2754	288A2135	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2755	313B7065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2756	287B5155	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2757	238A4120	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MANDALAY AVE	2021
2758	277A1005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2759	279B6010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2760	260A2010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	NOKOMIS ST	2022
2761	296B6080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2762	287A4035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2763	306A4130	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2764	313B8085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2765	251A2020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	CHARLES ST	2023
2766	252B5100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2767	276A1030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2768	267A3035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2769	269B8080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2770	260A4045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2771	259B7040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	VENETIAN POINT DR	2022
2772	288A2040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2773	288A2165	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2774	296A2085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2775	306B7070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
2776	314A3160	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2777	252B7115	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2778	252B6120	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2779	252A2045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2780	251A1075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2781	251A3125	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2782	261B8050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2783	261B6125	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2784	249A3020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BRUCE AVE	2021
2785	270B5075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2786	270B5070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2787	270B7115	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2788	297A1090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2789	268A1025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2790	277B7065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2791	278B6035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N LINCOLN AVE	2018
2792	261A4085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2793	269A2070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2794	279A2015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MAPLE ST	2020
2795	258A3025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BRUCE AVE	2021
2796	269A3175	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2797	279A4050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2798	306B7075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2799	238A3065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BRUCE AVE	2021
2800	260A2100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	APACHE TRL	2022
2801	285B5045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2802	286B8075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	FRANKLIN ST	2021
2803	286B8020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	PIERCE ST	2021
2804	306B5020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2805	314A3070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2806	277B8055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	HART ST	2018
2807	249A3100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BRUCE AVE	2021
2808	278A2040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	VINE AVE	2018
2809	259B8005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SUNSET DR	2022
2810	269A1165	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2811	314A4070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2812	252B6045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2813	269A1160	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2814	306B7005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2815	251A1040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2816	267B6155	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2817	287A3035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	NE CLEVELAND ST	2021
2818	278A2130	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	VINE AVE	2018
2819	295B5080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BAY AVE	2020
2820	295B5065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	TURNER ST	2020
2821	277B7010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2822	252B5020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2823	249A3055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MANDALAY AVE	2021
2824	249A3090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	LANTANA AVE	2021
2825	261A4140	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2826	288A2115	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2827	259B8060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SUNBURST CT	2022
2828	277B7045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2829	279A3015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2830	270A2045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2831	252B6055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2832	279A2140	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	CRESTVIEW ST	2020
2833	249A3045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BAY ESPLANADE	2021
2834	279B5085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2835	288A2020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	PIERCE ST	2020
2836	296B6085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2837	314A4055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2838	296A2095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2839	287B6015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2840	269B6095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2841	279B5080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2842	287B6025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2843	288A3050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	GROVE ST	2020
2844	305B8080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2845	249A4065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	LANTANA AVE	2021
2846	238A3070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BRUCE AVE	2021
2847	249A4105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BRUCE AVE	2021
2848	261A4165	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2849	260A2065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	APACHE TRL	2022
2850	278A4010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N WASHINGTON AVE	2018

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
2851	260A4035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2852	279B5040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2853	278A2105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	HART ST	2018
2854	296B5025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2855	306A1005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2856	295B6015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2857	288A1140	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	PARK ST	2020
2858	296B8105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MARK DR	2018
2859	279B6055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2860	279A4100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2861	278A4095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N MADISON AVE	2018
2862	296A1090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2863	287B8055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2864	287B6170	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2865	251A2045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2866	252A4115	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2867	261A4150	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2868	270A2050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2869	269A1090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2870	279B5055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2871	278B5035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2872	306A1015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2873	295B6045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2874	295B6055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2875	288A2060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	FRANKLIN ST	2020
2876	296A2090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2877	314A3185	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2878	287B6055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2879	314A4035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2880	253A1075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	DAWN DR	2019
2881	253A1070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2882	251A2025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	WILSON BLVD	2023
2883	261A1065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2884	270B5100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SHERWOOD ST	2018
2885	270B5085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2886	269B5005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2887	268A2005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2888	277B7095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2889	277B8010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MAPLE ST	2018
2890	277B8035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2891	278A1020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2892	278B6105	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N LINCOLN AVE	2018
2893	314A3005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2894	314A3130	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2895	276A1086	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2896	269A4030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2897	295B1000	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	OAK AVE	2020
2898	MH35	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2899	MH48	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2900	287B6095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2901	268B7015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	SUNSET DR	2022
2902	269B7025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2903	261A4155	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2904	279B6035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2905	252B5080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2906	279B6085	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2907	249A1015	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ELDORADO AVE	2021
2908	249A4155	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BRUCE AVE	2021
2909	285B5055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2910	287A4010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2911	314A3040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2912	249A3060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	BRUCE AVE	2021
2913	279A2055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MARIVA AVE	2020
2914	288A1135	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	PARK ST	2020
2915	251A1060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2916	270A1075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2917	286B7195	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	PARK ST	2021
2918	314A4170	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2919	249A3040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	NARCISSUS AVE	2021
2920	249B5020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2921	260A2080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2922	258A3065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2923	271A1025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2924	269B7055	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2925	249A2020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ELDORADO AVE	2021

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
2926	288A1035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	GROVE ST	2020
2927	277B7140	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2928	288A2045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2929	252B8100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2930	258A1005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ACACIA ST	2021
2931	287B6020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2932	249A4090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	LANTANA AVE	2021
2933	252B6065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2934	279A2190	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MARIVA AVE	2020
2935	288A2090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2936	277B8020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	MAPLE ST	2018
2937	286B6091	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	S OSCEOLA AVE	2021
2938	238A3095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	NARCISSUS AVE	2021
2939	252B5040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2940	278A2050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	PLAZA ST	2018
2941	261A4175	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2942	296B5035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2943	288A3035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	GROVE ST	2020
2944	287A2060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2945	286B8070	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	S GARDEN AVE	2021
2946	258B7025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2947	277A1010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2948	261A2075	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2949	261A1120	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2950	270A1060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2951	276A4040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2952	279B6050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2953	314A3115	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2954	252B6135	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2955	252B6115	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2956	252A2130	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2957	251A1110	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2958	260B8040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2959	261A1045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2960	251A4080	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2961	260B8035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2962	270B5060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2963	270B7035	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2964	270B7040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2965	270B7065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2966	270B7090	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2967	286B1215	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	S GARDEN AVE	2021
2968	295B6005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	ORANGE AVE	2020
2969	252B7050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2970	279A3050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2971	295B6025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2972	297A1050	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2973	297A1045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2974	296B6045	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2975	252A1065	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2976	260A2135	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	APACHE TRL	2022
2977	314A1020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2978	288A2100	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	DE LEON ST	2020
2979	278A4005	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	N MADISON AVE	2018
2980	314A3190	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2981	295A4010	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2982	252A1095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	RIDGELANE RD	2019
2983	278A1040	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2984	277B8095	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	JONES ST	2018
2985	277B7020	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2986	296B8120	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation	S EVERGREEN AVE	2018
2987	269A2185	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2988	287B5135	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2989	269B7060	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2990	322A1025	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2991	252B7030	Marshall Street WRF	4	2	4 x 2	Frequent Condition Evaluation		
2992	297A1025	Marshall Street WRF	4	1	4 x 1	Frequent Condition Evaluation		
2993	297A1020	Marshall Street WRF	4	1	4 x 1	Frequent Condition Evaluation		
2994	252A1045	Marshall Street WRF	4	1	4 x 1	Frequent Condition Evaluation		
2995	297A1030	Marshall Street WRF	4	1	4 x 1	Frequent Condition Evaluation		
2996	279B5050	Marshall Street WRF	4	1	4 x 1	Frequent Condition Evaluation		
2997	306A1080	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
2998	306A1085	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
2999	270A3105	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3000	286B6067	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
3001	286B6068	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3002	306A2040	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3003	260B5010	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3004	286B6069	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3005	296B5205	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3006	287B8165	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3007	287B7030	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3008	286B6137	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3009	260B5005	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3010	319B5005	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3011	303B6035	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3012	287B7075	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3013	287B7190	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3014	260A3110	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3015	303B6045	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3016	319B5020	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3017	260B7015	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3018	303B6030	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3019	296B5085	Marshall Street WRF	3	4	3 x 4	Frequent Condition Evaluation		
3020	249A4035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	BAY ESPLANADE	2021
3021	242B8060	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3022	242B8040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3023	242A2075	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3024	242A2055	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3025	242A2020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3026	242A1130	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3027	242A2025	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3028	251A3115	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	PLAZA DOLORES	2023
3029	242A1140	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3030	251A3040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	STARBOARD WAY	2023
3031	251A3110	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	GRANADA ST	2023
3032	260B6020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3033	251B7075	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3034	242A2040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3035	269A2235	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3036	270B8080	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3037	258A1015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3038	258A2010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3039	294A2045	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3040	269B6050	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3041	270A2110	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3042	270B7100	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3043	260B7025	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3044	251A4035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	SEDEEVA ST	2023
3045	311B6035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3046	311B7005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3047	306A1025	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3048	311B7035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3049	258A4005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3050	279B6005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3051	294A2060	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3052	251A3070	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	PORT WAY	2023
3053	303B5005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3054	303B6010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3055	311B7020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3056	311B6015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3057	303B7040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3058	253A3130	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3059	249B6020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3060	242B8065	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3061	242A1115	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3062	242B7035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3063	238A3010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	ELDORADO AVE	2021
3064	294A2070	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3065	286B7120	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3066	311B7010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3067	295B8015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3068	278B8015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3069	303B7005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3070	314B5005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3071	303B7015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3072	242A1045	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3073	253A3040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3074	242A2010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3075	251A4005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	IVA ST	2023

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
3076	242B8070	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3077	253A3090	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3078	251A3035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	STARBOARD WAY	2023
3079	242A2085	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3080	253A2020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3081	242A1090	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3082	253A2065	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3083	270A2085	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3084	269A2085	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3085	270A2025	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3086	270A2115	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3087	260B7005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3088	258A1010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3089	270B6100	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3090	270A2120	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3091	260B7010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3092	294A4020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3093	296A4050	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3094	294A4005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3095	276A2160	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3096	288A2180	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3097	296A1020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3098	306B6095	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3099	287B6185	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3100	303B7030	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3101	287B7145	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3102	303B7035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3103	311B7015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3104	303B7011	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3105	311B8005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3106	251A3095	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	PLAZA DOLORES	2023
3107	242B7050	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3108	242B7045	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3109	253A3070	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3110	251A3145	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	GRANADA ST	2023
3111	242A2080	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3112	251A4045	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	SEDEEVA ST	2023
3113	251A3120	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	GRANADA ST	2023
3114	242A1125	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3115	242A1020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3116	270B8095	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3117	276A1050	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3118	269A2205	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3119	279A1005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3120	294A4010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3121	295B8070	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3122	294A2035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3123	286B7125	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3124	303B5010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3125	306B6045	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3126	303B6040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3127	313B7025	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3128	306B6065	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3129	311B6020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3130	311B7030	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3131	306B6070	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3132	287B8160	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3133	242A4130	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3134	253B5050	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3135	253B5055	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3136	260A3035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3137	253A2080	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3138	253A2100	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3139	285B5021	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3140	270A2105	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3141	270A2080	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3142	267B8040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3143	267B8020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3144	267B7100	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3145	267B6005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3146	267B7055	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3147	260A4010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3148	260A4020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3149	270B8045	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3150	270B8060	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
3151	286B7175	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3152	269A4010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3153	269A2155	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3154	277B6050	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	N OSCEOLA AVE	2018
3155	286B5010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	N OSCEOLA AVE	2021
3156	253A3065	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3157	253A3050	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3158	253A3080	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3159	253A3010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3160	253A3015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3161	260A3101	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3162	269A4160	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3163	MH19	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3164	MH93	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3165	MH132	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3166	251A3075	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	PORT WAY	2023
3167	242A2070	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3168	313B8015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3169	249A4005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	NARCISSUS AVE	2021
3170	286B7155	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3171	242A1110	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3172	242A1025	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3173	303B6015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3174	238A3015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	BAY ESPLANADE	2021
3175	253A3020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3176	251A1090	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	GRANADA ST	2023
3177	270A4130	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	FLAGLER DR	2018
3178	258B5020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3179	249B6030	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3180	279A1035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3181	270A2090	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3182	295B7125	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3183	287B8040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3184	242B7040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3185	242A4090	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3186	286B7160	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3187	296A4140	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3188	242A1120	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3189	287A3015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	N WASHINGTON AVE	2018
3190	287B7050	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3191	242A2030	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3192	270A4060	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	FLAGLER DR	2018
3193	270A2125	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3194	296B7010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3195	296B7005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3196	306A2025	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3197	270A1055	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3198	253A2035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3199	285B5030	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3200	267B6065	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3201	267B5040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3202	270B8090	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3203	276A4015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3204	286B7185	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3205	269A4135	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3206	278A3010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3207	276A2085	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3208	276A1070	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3209	286B5035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	LAURA ST	2021
3210	286B7135	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3211	253A3045	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3212	MH50	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3213	251A4040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	SEDEEVA ST	2023
3214	251A4070	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3215	306A1035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3216	242A1070	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3217	305B7040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3218	251A3015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3219	251A4020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	IVA ST	2023
3220	270A3030	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	FLAGLER DR	2018
3221	253A1015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3222	238A3020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	ELDORADO AVE	2021
3223	253A3115	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3224	269B6110	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3225	270B8005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
3226	296B5100	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3227	270A3115	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	FLAGLER DR	2018
3228	251A4095	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	SPRINGTIME AVE	2023
3229	278A2125	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	JONES ST	2018
3230	278B8020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3231	251A3010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3232	242A1105	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3233	242B8035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3234	242B8055	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3235	249B6005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3236	279B6015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3237	242A2090	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3238	278B8030	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3239	278B8025	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3240	296B5065	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3241	260B6015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3242	295B7100	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3243	295B8065	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3244	278A4115	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3245	242A4120	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3246	270B6095	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3247	251A4010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	IVA ST	2023
3248	253B5035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3249	253A3035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3250	242A1040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3251	242A2095	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3252	261A4190	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3253	267A4035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3254	260B5050	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3255	270A3080	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	FLAGLER DR	2018
3256	251A2010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	CHARLES ST	2023
3257	249B5025	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3258	258B6045	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3259	296B8045	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	MARK DR	2018
3260	279A4095	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3261	270B6060	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	MACRAE AVE	2018
3262	277B7080	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3263	251A4085	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3264	319B7005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3265	270B7130	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3266	253A3005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3267	269B5065	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3268	286B7030	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	GROVE ST	2021
3269	253A3025	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3270	270A3075	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	FLAGLER DR	2018
3271	270A3110	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	FLAGLER DR	2018
3272	314A1010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3273	306A4115	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3274	242B7055	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3275	267A2055	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3276	253B5030	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3277	269A4060	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3278	253A3085	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3279	258B8040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3280	294A4015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3281	287B8015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3282	253A3055	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3283	238A3005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	BAY ESPLANADE	2021
3284	258A3110	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	MANDALAY AVE	2021
3285	287A1110	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	PARK ST	2021
3286	287A1065	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	N PROSPECT AVE	2021
3287	296A4190	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3288	287A2160	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3289	251A2050	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3290	311B6045	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3291	287B5030	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3292	313B7085	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3293	260A3050	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3294	260A3040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3295	260A3020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3296	268A2020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3297	286B7025	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	GROVE ST	2021
3298	276A2115	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3299	276A2095	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3300	276A2110	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
3301	260A3060	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3302	253A3060	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3303	253A3110	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3304	296B5131	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3305	278B8035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3306	276A2060	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3307	253B5060	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3308	305B7020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3309	253A3030	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3310	253A3100	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3311	278B6025	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	N PRESCOTT AVE	2018
3312	252A2021	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	BYRAM DR	2019
3313	261A3035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3314	279A3005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3315	251A2060	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3316	286B7215	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	PARK ST	2021
3317	287B7175	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3318	313B8020	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3319	278B5060	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3320	253A2105	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3321	253B5080	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3322	269A4085	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3323	267A3030	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3324	278A2065	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	PLAZA ST	2018
3325	278A4035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3326	267B6045	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3327	270B8070	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3328	268B8005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3329	287B6035	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3330	305B7045	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3331	295B8090	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3332	249A2005	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3333	260B5040	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3334	288A1115	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation	PARK ST	2020
3335	287B8050	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3336	261A3010	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3337	252B5110	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3338	276A2015	Marshall Street WRF	3	3	3 x 3	Frequent Condition Evaluation		
3339	251A3005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BROADWAY	2023
3340	242A1050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3341	252A1030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3342	238A2005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	ELDORADO AVE	2021
3343	238A2015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	ELDORADO AVE	2021
3344	251A3020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3345	242A1085	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3346	251A3045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BROADWAY	2023
3347	242B8030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3348	242A4025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3349	242A4065	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3350	242A1035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3351	251B5005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3352	270A3125	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3353	242A1095	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3354	242A1055	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3355	251A3085	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3356	242A1060	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3357	278B5055	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3358	251A4100	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3359	269B7130	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3360	270A3120	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	WOOD AVE	2018
3361	261B5025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3362	270B6075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BONAIR ST	2018
3363	268B8035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3364	261B5060	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3365	261B5100	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3366	261A2025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3367	261B5105	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3368	269B7135	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3369	261B5020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3370	261B5085	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3371	278A4075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	NA	2018
3372	276A3005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3373	288A3065	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	LAURA ST	2020
3374	261B6050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3375	253A2125	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
3376	261A2035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3377	276A1055	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3378	296B5060	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3379	253A2075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3380	314B6030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3381	279A2040	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3382	251B6010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3383	249A4085	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BAY ESPLANADE	2021
3384	270A4135	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BONAIR ST	2018
3385	259B7025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	VENETIAN POINT DR	2022
3386	258B6040	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3387	261B5080	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3388	261A3015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3389	278A2060	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	PLAZA ST	2018
3390	286B8015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	PIERCE ST	2021
3391	306B5035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3392	314A3025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3393	314A3135	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3394	242B8010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3395	238A2010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	ELDORADO AVE	2021
3396	305B8015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3397	296B6075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3398	305B8030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3399	314A3020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3400	242B8025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3401	252A3005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3402	242A1080	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3403	253A2115	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3404	238A3055	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	ELDORADO AVE	2021
3405	242B8020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3406	252B7055	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3407	242B8045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3408	278A2135	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	JONES ST	2018
3409	253B5015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3410	296B5095	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3411	296B8110	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3412	269B6135	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3413	319B7035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3414	314B6035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3415	314A3015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3416	306A4075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3417	306A4095	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3418	251A3065	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BROADWAY	2023
3419	253B5020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3420	238A4155	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	NARCISSUS AVE	2021
3421	253B5025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3422	242A4115	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3423	242A1065	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3424	238A4150	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	LANTANA AVE	2021
3425	252A4095	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3426	242A1075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3427	242A1100	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3428	252A3020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3429	238A4055	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	MANDALAY AVE	2021
3430	261B5010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3431	261A3045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3432	279A3030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3433	261B5090	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3434	261B6005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3435	261A1130	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3436	253A2120	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3437	270A4140	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BONAIR ST	2018
3438	270B7055	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	S LEO LN	2018
3439	286B6100	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3440	279A4075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3441	306B5040	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3442	287B5075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3443	313B7030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3444	306B7085	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3445	313B8090	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3446	242B8050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3447	252B6085	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3448	238A4115	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BAY ESPLANADE	2021
3449	253A3120	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3450	242B8015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
3451	251A3090	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BROADWAY	2023
3452	238A3085	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BAY ESPLANADE	2021
3453	238A3080	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	ELDORADO AVE	2021
3454	242B8005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3455	238A4045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BAY ESPLANADE	2021
3456	238A4075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	MANDALAY AVE	2021
3457	249A2010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	ELDORADO AVE	2021
3458	252B5015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3459	242A4050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3460	260B5070	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3461	261A4075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3462	261B5015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3463	261B6010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3464	268B7060	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3465	258A3055	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3466	259B7035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	VENETIAN POINT DR	2022
3467	261B5040	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3468	267B8005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3469	261B6075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3470	278B6060	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	JACKSON RD	2018
3471	288A2170	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3472	314A3155	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3473	306A4045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3474	305B6015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3475	287B6045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3476	306A4160	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3477	270A4040	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	LONG ST	2018
3478	253A1030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3479	253A1115	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	SETON DR	2019
3480	252B5005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3481	252B5010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3482	252B7005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3483	252B7015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3484	252B7010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3485	252B5060	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3486	252B5025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3487	252B5045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3488	252B7020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3489	252B7110	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3490	252B6030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3491	252B6080	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3492	252B6110	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3493	251A1010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3494	251A1045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	ANCHORAGE WAY	2023
3495	251A1030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	ANCHORAGE WAY	2023
3496	251A1035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3497	251A1065	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3498	251A3060	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3499	251A3055	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3500	251A3050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3501	261A2020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3502	261A2015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3503	261B6080	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3504	270B5010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3505	270B5025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3506	270B7125	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	AMBLE LN	2018
3507	270B6065	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3508	288A2175	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3509	297A1080	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3510	305B8020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3511	269B7040	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3512	269B7125	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3513	276B6005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3514	277B8005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	N GARDEN AVE	2018
3515	278A3020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3516	278A3005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3517	278A3015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3518	251A1050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	WILSON BLVD	2023
3519	251A4015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	NA	2023
3520	253B5040	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3521	253B5045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3522	253B5075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3523	253A3125	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3524	253A3095	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3525	269A2190	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
3526	MH188	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3527	238A4040	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	MANDALAY AVE	2021
3528	238A4135	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	GUAVA ST	2021
3529	261B6065	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3530	259B8020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	SUNSET DR	2022
3531	259B8030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	SUNSET DR	2022
3532	287B6080	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3533	238A4020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	ELDORADO AVE	2021
3534	238A4080	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	LAUREL ST	2021
3535	238A3075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BAY ESPLANADE	2021
3536	251A2035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3537	252A3035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3538	258A3040	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BAY ESPLANADE	2021
3539	278A1145	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3540	258B5010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3541	270A4125	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	WOOD AVE	2018
3542	249B6035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3543	251A1025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	MARINE ST	2023
3544	270A3085	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3545	267A4005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3546	260A2160	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	APACHE TRL	2022
3547	261B5030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3548	314A3010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3549	259B8035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	PLEASANT ST	2022
3550	287B6160	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3551	252B5145	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3552	238A4110	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	LANTANA AVE	2021
3553	306A4105	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3554	314A3165	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3555	296B6090	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3556	314A4085	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3557	252A4060	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3558	238A4010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	MANDALAY AVE	2021
3559	238A3090	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	ISLAND DR	2021
3560	242A1030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3561	267B8025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3562	267B7065	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3563	270A3095	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3564	261B5045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3565	287B7005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	LAURA ST	2020
3566	314A3075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3567	306A4110	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3568	306A4050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3569	252A4120	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3570	279A4020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3571	288A1050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	LAURA ST	2020
3572	287B6165	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3573	253A1020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3574	252A4075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3575	251A2040	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3576	267B6010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3577	260A2045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3578	297A1065	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3579	268A1020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3580	276B6010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3581	276B6015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3582	277B5005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3583	277B5010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	N OSCEOLA AVE	2018
3584	277B8030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	N GARDEN AVE	2018
3585	278B6080	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	N PRESCOTT AVE	2018
3586	278B6065	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	JACKSON RD	2018
3587	279A3010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3588	295B5050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	ORANGE AVE	2020
3589	270A4045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	LONG ST	2018
3590	252B7025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3591	296B6015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3592	252B7040	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3593	242A4055	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3594	249A4075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BAY ESPLANADE	2021
3595	238A4050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	JUNIPER ST	2021
3596	238A4035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	NARCISSUS AVE	2021
3597	287B6060	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3598	251A3030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BROADWAY	2023
3599	261B5005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3600	261B6070	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
3601	251A2030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3602	249A4125	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BAY ESPLANADE	2021
3603	278A2150	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3604	270A4020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3605	270B7050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	S LEO LN	2018
3606	251A1020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	WILSON BLVD	2023
3607	295B5085	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	OAK AVE	2020
3608	238A4065	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BAY ESPLANADE	2021
3609	261B5065	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3610	261B5050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3611	260B5065	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3612	278B5050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3613	261B5035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3614	261B6045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3615	261A3055	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3616	249A4095	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	BAY ESPLANADE	2021
3617	261B5055	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3618	313B7035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3619	306B5045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3620	278A4015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	NA	2018
3621	260B6010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3622	270A3100	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3623	270A3130	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3624	314A3050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3625	253B5005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3626	278A4105	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	NA	2018
3627	287A4045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3628	288A1125	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	PARK ST	2020
3629	314A3095	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3630	249A3070	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	GARDENIA ST	2021
3631	238A4025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	NARCISSUS AVE	2021
3632	251A3025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3633	269B7020	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3634	261A4185	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3635	261A3065	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3636	296A3090	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3637	295B6040	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3638	286B8050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	S GARDEN AVE	2021
3639	278A2140	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	PENNSYLVANIA AVE	2018
3640	296B5185	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3641	276A4050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3642	261A1125	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3643	270B5005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	RIDGE AVE	2018
3644	261B5075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3645	268A2030	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3646	267B8080	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3647	261B5070	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3648	288A2050	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3649	296B5145	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3650	297A1095	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3651	296A3085	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3652	314A2025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3653	287B6125	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3654	314A1040	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3655	270A3035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3656	253A1090	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	DAWN DR	2019
3657	252B6025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3658	252B6105	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3659	251A1015	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3660	251A1071	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3661	251A1120	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3662	261A3095	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3663	261A2005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3664	261B8045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3665	251A2090	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3666	251A2085	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3667	249A3025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	LANTANA AVE	2021
3668	269B7035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3669	269B7100	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3670	276A4035	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3671	276A4045	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3672	277B5025	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	N OSCEOLA AVE	2018
3673	314A4005	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3674	269B7145	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3675	253A2070	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
3676	276A1075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3677	253A2110	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3678	261A2010	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3679	269B7095	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3680	270A4080	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation	CLARK ST	2018
3681	297A1070	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3682	297A1075	Marshall Street WRF	3	2	3 x 2	Frequent Condition Evaluation		
3683	269B5115	Marshall Street WRF	2	5	2 x 5	Frequent Condition Evaluation		
3684	296B5200	Marshall Street WRF	2	4	2 x 4	Frequent Condition Evaluation		
3685	260A5015	Marshall Street WRF	2	4	2 x 4	Frequent Condition Evaluation		
3686	269B6025	Marshall Street WRF	2	4	2 x 4	Frequent Condition Evaluation		
3687	269B7165	Marshall Street WRF	2	4	2 x 4	Frequent Condition Evaluation		
3688	303B6724	Marshall Street WRF	2	4	2 x 4	Frequent Condition Evaluation		
3689	260B5015	Marshall Street WRF	2	4	2 x 4	Frequent Condition Evaluation		
3690	311B6050	Marshall Street WRF	2	4	2 x 4	Frequent Condition Evaluation		
3691	269B7140	Marshall Street WRF	2	4	2 x 4	Frequent Condition Evaluation		
3692	278B6005	Marshall Street WRF	2	4	2 x 4	Frequent Condition Evaluation		
3693	296B5090	Marshall Street WRF	2	4	2 x 4	Frequent Condition Evaluation		
3694	296B5196	Marshall Street WRF	2	4	2 x 4	Frequent Condition Evaluation		
3695	278B7075	Marshall Street WRF	2	4	2 x 4	Frequent Condition Evaluation		
3696	260A3105	Marshall Street WRF	2	4	2 x 4	Frequent Condition Evaluation		
3697	283B5015	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN JOSE ST	2019
3698	298B5110	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3699	275A2055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3700	283B5010	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN JOSE ST	2019
3701	289B6125	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3702	283B5060	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN BERNADINO ST	2019
3703	275A2045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3704	288B7080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3705	290B6010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3706	299B5025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3707	297A2130	East WRF	4	2	4 x 2	Frequent Condition Evaluation	E LOTUS PATH	2018
3708	283B5065	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN BERNADINO ST	2019
3709	283B7050	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN BERNADINO ST	2019
3710	288B6035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3711	298B5070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3712	283B5005	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN JOSE ST	2019
3713	280A2060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3714	283B7055	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN BERNADINO ST	2019
3715	288B8085	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3716	298B5060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3717	290B8055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3718	283B5050	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN BERNADINO ST	2019
3719	283A3080	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN BERNADINO ST	2019
3720	288B5055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3721	280A2030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3722	283B5070	East WRF	4	2	4 x 2	Frequent Condition Evaluation	MAXIMO AVE	2019
3723	301A1005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3724	309A3065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3725	316A4045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3726	308B5080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3727	309A3125	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3728	306B8050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3729	309A3105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3730	316A2075	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3731	308B8060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3732	316B8020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3733	306B8085	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3734	315B6025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3735	316A2080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3736	308B8025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3737	317A3070	East WRF	4	2	4 x 2	Frequent Condition Evaluation	MONTE CARLO DR	2019
3738	315B8080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3739	310A2020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3740	288B8070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3741	298B5065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3742	308B5040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3743	306B8190	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3744	315B8060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3745	315B8075	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3746	309A3010	East WRF	4	2	4 x 2	Frequent Condition Evaluation	CHINABERRY RD	2019
3747	315B8090	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3748	309A4005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3749	309A2010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3750	309A1090	East WRF	4	2	4 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
3751	307A1170	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3752	299A4125	East WRF	4	2	4 x 2	Frequent Condition Evaluation	CHINABERRY RD	2019
3753	309A1060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3754	292A4005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3755	298B5095	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3756	289B6155	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3757	298B7015	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3758	289B5025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3759	299A4080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3760	297B6085	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3761	289B6175	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3762	297A4105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3763	289B6035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3764	298B5075	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3765	288B8045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3766	288B8065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3767	288B5085	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3768	297A2030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3769	290A4070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3770	297A4125	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3771	316B8025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3772	309B8015	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3773	309A1055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3774	309A3035	East WRF	4	2	4 x 2	Frequent Condition Evaluation	GLENMOOR RD N	2019
3775	309A4085	East WRF	4	2	4 x 2	Frequent Condition Evaluation	STEWART BLVD	2019
3776	323A1165	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3777	309A1110	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3778	289B5045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3779	288B8005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3780	300B7020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3781	301A1010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3782	300B5010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3783	323A1175	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3784	317A3045	East WRF	4	2	4 x 2	Frequent Condition Evaluation	MONTE CARLO DR	2019
3785	296B8175	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3786	318A1065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3787	309B6035	East WRF	4	2	4 x 2	Frequent Condition Evaluation	MORELAND DR	2019
3788	309B6110	East WRF	4	2	4 x 2	Frequent Condition Evaluation	FAIRBANKS DR	2019
3789	316B5095	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3790	309A1015	East WRF	4	2	4 x 2	Frequent Condition Evaluation	GLENMOOR RD N	2019
3791	315A4020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3792	307B5040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3793	309A1105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3794	316A2070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3795	314B7035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3796	299A2095	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3797	317A3025	East WRF	4	2	4 x 2	Frequent Condition Evaluation	WILLIAMS DR	2019
3798	309A2025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3799	309B7085	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3800	306B6100	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3801	307B7010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3802	308B8010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3803	309B6030	East WRF	4	2	4 x 2	Frequent Condition Evaluation	MORELAND DR	2019
3804	283B7015	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN JOSE ST	2019
3805	283B5080	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN MATEO ST	2019
3806	283B7035	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN PEDRO ST	2019
3807	283B5055	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN BERNADINO ST	2019
3808	280A2010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3809	283A3070	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN BERNADINO ST	2019
3810	283A3015	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN JOSE ST	2019
3811	283B5030	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN PEDRO ST	2019
3812	283B7070	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN MATEO ST	2019
3813	275A2040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3814	292A2030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3815	298B7035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3816	298A2045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3817	296B8100	East WRF	4	2	4 x 2	Frequent Condition Evaluation	S HILLCREST AVE	2018
3818	289A2015	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3819	290A2060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3820	288B7075	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3821	289A2010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3822	297A4085	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3823	290A2065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3824	297A2180	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3825	298B7050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		

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*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
3826	288B6115	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3827	297A2150	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3828	297A2175	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3829	301A1030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3830	289B6065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3831	296B8135	East WRF	4	2	4 x 2	Frequent Condition Evaluation	S HILLCREST AVE	2018
3832	298A1050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3833	289A1100	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3834	323A1160	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3835	309A3100	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3836	314B6045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3837	317A1040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3838	316B5040	East WRF	4	2	4 x 2	Frequent Condition Evaluation	ATTACHE CT	2020
3839	308B8085	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3840	316B5085	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3841	315B8065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3842	323A1155	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3843	309A3030	East WRF	4	2	4 x 2	Frequent Condition Evaluation	GLENMOOR RD N	2019
3844	314B7185	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3845	315B6030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3846	309A1080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3847	309A1085	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3848	308A2030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3849	309A1095	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3850	306B8195	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3851	309B7030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3852	309A1025	East WRF	4	2	4 x 2	Frequent Condition Evaluation	GLENMOOR RD	2019
3853	292A4006	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3854	316B5020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3855	306B8080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3856	316A2055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3857	308B5035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3858	306B7115	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3859	316A2015	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3860	306B8095	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3861	309A1005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3862	309B8020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3863	315B6020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3864	316A2085	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3865	308B5045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3866	306B8045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3867	316A2050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3868	300B7054	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3869	283B5020	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN JOSE ST	2019
3870	283B5085	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN MATEO ST	2019
3871	283A3075	East WRF	4	2	4 x 2	Frequent Condition Evaluation	MADERA AVE	2019
3872	280A2035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3873	280A2025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3874	283B5090	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN MATEO ST	2019
3875	290A4065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3876	299A4120	East WRF	4	2	4 x 2	Frequent Condition Evaluation	CHINABERRY RD	2019
3877	288B5120	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3878	297A3075	East WRF	4	2	4 x 2	Frequent Condition Evaluation	TURNER ST	2021
3879	288B8110	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3880	297A3035	East WRF	4	2	4 x 2	Frequent Condition Evaluation	S GLENWOOD AVE	2021
3881	288B8030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3882	288B7070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3883	289B6010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3884	309A1010	East WRF	4	2	4 x 2	Frequent Condition Evaluation	GLENMOOR RD N	2019
3885	288B8080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3886	300B7005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3887	288B8105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3888	309A3025	East WRF	4	2	4 x 2	Frequent Condition Evaluation	GLENMOOR RD N	2019
3889	289B6060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3890	298B8155	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3891	290B6045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3892	288B6105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3893	288B8075	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3894	297A3040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3895	288B8095	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3896	288B8100	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3897	288B5100	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3898	288B6110	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3899	307A3020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3900	288B5105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
3901	288B8020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3902	307A1005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3903	309A2030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3904	308B8020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3905	323A1170	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3906	317A3020	East WRF	4	2	4 x 2	Frequent Condition Evaluation	WHISPERING PINES DR	2019
3907	315B8035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3908	308B8030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3909	316A4035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3910	308B8090	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3911	317A1020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3912	309A3070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3913	316A2025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3914	316A2010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3915	308B8065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3916	317A3060	East WRF	4	2	4 x 2	Frequent Condition Evaluation	MONTE CARLO DR	2019
3917	308B8005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3918	309A1075	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3919	307B5055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3920	309A4020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3921	308B5075	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3922	309A4025	East WRF	4	2	4 x 2	Frequent Condition Evaluation	WILLIAMS DR	2019
3923	309A1065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3924	316A4050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3925	309B7035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3926	318A1045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3927	307A1155	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3928	309B7090	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3929	316B5060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3930	309A3055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3931	297B5030	East WRF	4	2	4 x 2	Frequent Condition Evaluation	S DUNCAN AVE	2021
3932	297B7130	East WRF	4	2	4 x 2	Frequent Condition Evaluation	MARION ST	2021
3933	289B5005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3934	289B5075	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3935	289B5080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3936	289B5085	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3937	289A3005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3938	289A3070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3939	289A1105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3940	289A1095	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3941	289A2005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3942	289A3010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3943	289A3030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3944	289A3075	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3945	289A3085	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3946	289A4015	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3947	289A4010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3948	289A4035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3949	289A4045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3950	289A4070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3951	289A2095	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3952	289A2105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3953	297B6025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3954	297B6070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3955	297B8040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3956	297B8035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3957	307A1085	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3958	307A1075	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3959	307A1110	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3960	307A1165	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3961	307A3050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3962	306B7100	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3963	306B7180	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3964	306B8155	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3965	306B7145	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3966	306B7140	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3967	306B7105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3968	280A2115	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3969	280A2050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3970	297B6120	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3971	299A1040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3972	309B7095	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3973	309A1030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3974	309A1035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3975	309A1050	East WRF	4	2	4 x 2	Frequent Condition Evaluation	GLENMOOR RD S	2019

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
3976	309A1070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3977	309A3095	East WRF	4	2	4 x 2	Frequent Condition Evaluation	YORK DR	2019
3978	309A3080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3979	309A3110	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3980	309A3090	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3981	309A1115	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3982	309A2015	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3983	309A2020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3984	309A4015	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3985	309A3120	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3986	309A4045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3987	309A2035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3988	307B7025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3989	307B7050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3990	307B7040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3991	307B7005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3992	307B7020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3993	307B7030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3994	307B7035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3995	307B7045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3996	307B7055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3997	314B8010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3998	314B8045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
3999	315B8095	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4000	316A4040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4001	316B8010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4002	297B7065	East WRF	4	2	4 x 2	Frequent Condition Evaluation	PLUMOSA AVE	2021
4003	297B7025	East WRF	4	2	4 x 2	Frequent Condition Evaluation	PLUMOSA AVE	2021
4004	297B5040	East WRF	4	2	4 x 2	Frequent Condition Evaluation	S KEYSTONE AVE	2021
4005	297B5015	East WRF	4	2	4 x 2	Frequent Condition Evaluation	S KEYSTONE AVE	2021
4006	280A4005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4007	MH1	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4008	MH54	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4009	MH58	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4010	MH60	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4011	MH135	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4012	MH141	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4013	MH144	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4014	MH145	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4015	MH146	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4016	MH147	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4017	MH148	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4018	MH186	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4019	315A2010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4020	306B8100	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4021	314B8035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4022	292A2005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4023	309A3075	East WRF	4	2	4 x 2	Frequent Condition Evaluation	FLUSHING AVE	2019
4024	296B8055	East WRF	4	2	4 x 2	Frequent Condition Evaluation	S HILLCREST AVE	2018
4025	315B8105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4026	296B8020	East WRF	4	2	4 x 2	Frequent Condition Evaluation	S HILLCREST AVE	2018
4027	283B5075	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN MATEO ST	2019
4028	298B5080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4029	297A2105	East WRF	4	2	4 x 2	Frequent Condition Evaluation	E MAGNOLIA ST	2018
4030	298B6130	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4031	309A4070	East WRF	4	2	4 x 2	Frequent Condition Evaluation	RANCHWOOD DR	2019
4032	297A2135	East WRF	4	2	4 x 2	Frequent Condition Evaluation	E LOTUS PATH	2018
4033	316B5090	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4034	292A2015	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4035	297A2140	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4036	309A2045	East WRF	4	2	4 x 2	Frequent Condition Evaluation	MORNINGSIDE DR	2019
4037	307A2045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4038	297B7035	East WRF	4	2	4 x 2	Frequent Condition Evaluation	PHOENIX AVE	2021
4039	288B5075	East WRF	4	2	4 x 2	Frequent Condition Evaluation	LAURA ST	2020
4040	292A3030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4041	316B5075	East WRF	4	2	4 x 2	Frequent Condition Evaluation	AMBASSADOR DR	2020
4042	308B5020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4043	316B5100	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4044	307A3070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4045	309A2040	East WRF	4	2	4 x 2	Frequent Condition Evaluation	MORNINGSIDE DR	2019
4046	306B7195	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4047	316B5025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4048	275A2005	East WRF	4	2	4 x 2	Frequent Condition Evaluation	ARLIE AVE	2018
4049	283A3050	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN BERNADINO ST	2019
4050	297B6130	East WRF	4	2	4 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
4051	299A2075	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4052	299A4135	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4053	288B6060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4054	296B8095	East WRF	4	2	4 x 2	Frequent Condition Evaluation	S HILLCREST AVE	2018
4055	306B8110	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4056	309B6025	East WRF	4	2	4 x 2	Frequent Condition Evaluation	MORELAND DR	2019
4057	317A3075	East WRF	4	2	4 x 2	Frequent Condition Evaluation	STEWART BLVD	2019
4058	316B5050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4059	307A2050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4060	296B8075	East WRF	4	2	4 x 2	Frequent Condition Evaluation	S HILLCREST AVE	2018
4061	308B5015	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4062	290A4035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4063	288B8090	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4064	288B5070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4065	298B5055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4066	308A3025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4067	306B6080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4068	314B8060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4069	298B7009	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4070	306B7170	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4071	316B5070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4072	306B8180	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4073	297B7125	East WRF	4	2	4 x 2	Frequent Condition Evaluation	MARION ST	2021
4074	292A3035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4075	289B5055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4076	289A3035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4077	289A4040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4078	289A4030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4079	289A2030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4080	289A2040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4081	307A1120	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4082	280A2105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4083	280A2100	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4084	309A1045	East WRF	4	2	4 x 2	Frequent Condition Evaluation	GLENMOOR RD S	2019
4085	315B8110	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4086	298B5050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4087	289B6055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4088	308B6105	East WRF	4	2	4 x 2	Frequent Condition Evaluation	ENVOY CT	2020
4089	316B5055	East WRF	4	2	4 x 2	Frequent Condition Evaluation	EMBASSY DR	2020
4090	307A1055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4091	314B7200	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4092	297B7100	East WRF	4	2	4 x 2	Frequent Condition Evaluation	TURNER ST	2021
4093	289B5050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4094	307A1060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4095	297A3065	East WRF	4	2	4 x 2	Frequent Condition Evaluation	S GLENWOOD AVE	2021
4096	298B5020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4097	289B5070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4098	307B8025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4099	288B6125	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4100	298A2070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4101	297B7135	East WRF	4	2	4 x 2	Frequent Condition Evaluation	PHOENIX AVE	2021
4102	316B7085	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4103	298A4125	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4104	298B8130	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4105	297A2155	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4106	314B8030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4107	307A3075	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4108	309A4055	East WRF	4	2	4 x 2	Frequent Condition Evaluation	RANCHWOOD DR	2019
4109	306B7050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4110	315B6045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4111	316B5035	East WRF	4	2	4 x 2	Frequent Condition Evaluation	AMBASSADOR DR	2020
4112	314B5020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4113	298B7010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4114	297B5035	East WRF	4	2	4 x 2	Frequent Condition Evaluation	YELVINGTON AVE	2021
4115	299A2060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4116	298B8150	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4117	314B6020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4118	314B7015	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4119	315B6015	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4120	314B8105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4121	307B5065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4122	309A4040	East WRF	4	2	4 x 2	Frequent Condition Evaluation	WILLIAMS DR	2019
4123	297A2090	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4124	288B8010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4125	297A2005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
4126	299A2020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4127	288B6020	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4128	297B8020	East WRF	4	2	4 x 2	Frequent Condition Evaluation	PHOENIX AVE	2021
4129	289B6105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4130	314B8040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4131	308B8055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4132	306B7130	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4133	306B6060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4134	314B8080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4135	307A1135	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4136	306B6030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4137	275A2030	East WRF	4	2	4 x 2	Frequent Condition Evaluation	BAYSHORE BLVD	2019
4138	298A1035	East WRF	4	2	4 x 2	Frequent Condition Evaluation	VIRGINIA LN	2021
4139	288B7025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4140	307B5030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4141	298B5090	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4142	306B8160	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4143	306B7120	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4144	314B6040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4145	306B8170	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4146	309A4060	East WRF	4	2	4 x 2	Frequent Condition Evaluation	WILLIAMS DR	2019
4147	307A1160	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4148	306B7125	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4149	315B6055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4150	306B8065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4151	307B8035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4152	289B5065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4153	289A3050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4154	289A2090	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4155	297A4080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4156	297B6100	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4157	307A1090	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4158	307A1105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4159	306B8125	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4160	309A3060	East WRF	4	2	4 x 2	Frequent Condition Evaluation	GLENMOOR CT	2019
4161	314B7090	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4162	314B7135	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4163	314B7175	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4164	314B8065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4165	315A2040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4166	297B5090	East WRF	4	2	4 x 2	Frequent Condition Evaluation	MARION ST	2021
4167	MH61	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4168	291B8080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4169	297A3080	East WRF	4	2	4 x 2	Frequent Condition Evaluation	TURNER ST	2021
4170	317B5030	East WRF	4	2	4 x 2	Frequent Condition Evaluation	FAIRBANKS DR	2019
4171	315A2025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4172	315A2005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4173	297A2170	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4174	299A4145	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4175	288B7055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4176	283A3110	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN MATEO ST	2019
4177	314B8070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4178	299A2045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4179	288B5080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4180	288B6095	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4181	307A1045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4182	314B8110	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4183	289B6070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4184	307A3055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4185	309A3020	East WRF	4	2	4 x 2	Frequent Condition Evaluation	GLENMOOR RD N	2019
4186	MH59	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4187	297B7070	East WRF	4	2	4 x 2	Frequent Condition Evaluation	PHOENIX AVE	2021
4188	283B7010	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN JOSE ST	2019
4189	283B7005	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN JOSE ST	2019
4190	315A2045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4191	306B8130	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4192	314B7155	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4193	298B6070	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4194	317A1065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4195	297A2070	East WRF	4	2	4 x 2	Frequent Condition Evaluation	JASMINE WAY	2018
4196	297A2075	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4197	298B6110	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4198	299B5060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4199	315B6060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4200	297A2100	East WRF	4	2	4 x 2	Frequent Condition Evaluation	E MAGNOLIA ST	2018

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
4201	317A1050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4202	309A4090	East WRF	4	2	4 x 2	Frequent Condition Evaluation	WHISPERING PINES DR	2019
4203	298B6125	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4204	298B6115	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4205	290B6005	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4206	299B5030	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4207	288B6010	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4208	315A3015	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4209	309B7050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4210	317A3030	East WRF	4	2	4 x 2	Frequent Condition Evaluation	WILLIAMS CT	2019
4211	309B7065	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4212	289A3025	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4213	289A3060	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4214	289A2100	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4215	289A2075	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4216	307A3045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4217	307A2035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4218	306B7110	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4219	306B8105	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4220	297B8045	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4221	298A1055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4222	297B5045	East WRF	4	2	4 x 2	Frequent Condition Evaluation	S DUNCAN AVE	2021
4223	314B7100	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4224	307A1180	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4225	283A3010	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN JOSE ST	2019
4226	283B7030	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN PEDRO ST	2019
4227	297A2050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4228	307A1140	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4229	298B8125	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4230	297A2080	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4231	301A1040	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4232	307A1220	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4233	283A3035	East WRF	4	2	4 x 2	Frequent Condition Evaluation	SAN PEDRO ST	2019
4234	298B5120	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4235	297B5020	East WRF	4	2	4 x 2	Frequent Condition Evaluation	YELVINGTON AVE	2021
4236	307A1215	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4237	288B8055	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4238	297A2095	East WRF	4	2	4 x 2	Frequent Condition Evaluation	E MAGNOLIA ST	2018
4239	288B5050	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4240	314B5035	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4241	299A2015	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4242	298B8135	East WRF	4	2	4 x 2	Frequent Condition Evaluation		
4243	283A3005	East WRF	4	1	4 x 1	Frequent Condition Evaluation	SAN JOSE ST	2019
4244	283B5040	East WRF	4	1	4 x 1	Frequent Condition Evaluation	SAN PEDRO ST	2019
4245	283B5035	East WRF	4	1	4 x 1	Frequent Condition Evaluation	SAN PEDRO ST	2019
4246	283B5045	East WRF	4	1	4 x 1	Frequent Condition Evaluation	SAN PEDRO ST	2019
4247	307A1180	East WRF	4	1	4 x 1	Frequent Condition Evaluation		
4248	298B8080	East WRF	4	1	4 x 1	Frequent Condition Evaluation		
4249	298B8070	East WRF	4	1	4 x 1	Frequent Condition Evaluation		
4250	298B8140	East WRF	4	1	4 x 1	Frequent Condition Evaluation		
4251	307A1185	East WRF	4	1	4 x 1	Frequent Condition Evaluation		
4252	298B8050	East WRF	4	1	4 x 1	Frequent Condition Evaluation		
4253	298B8060	East WRF	4	1	4 x 1	Frequent Condition Evaluation		
4254	298B8040	East WRF	4	1	4 x 1	Frequent Condition Evaluation		
4255	298B8035	East WRF	4	1	4 x 1	Frequent Condition Evaluation		
4256	298B8095	East WRF	4	1	4 x 1	Frequent Condition Evaluation		
4257	301A3025	East WRF	3	4	3 x 4	Frequent Condition Evaluation		
4258	301A1020	East WRF	3	4	3 x 4	Frequent Condition Evaluation		
4259	292B5025	East WRF	3	4	3 x 4	Frequent Condition Evaluation	BAYSHORE BLVD	2019
4260	292B5030	East WRF	3	4	3 x 4	Frequent Condition Evaluation	BAYSHORE BLVD	2019
4261	310A3035	East WRF	3	4	3 x 4	Frequent Condition Evaluation		
4262	292A4120	East WRF	3	4	3 x 4	Frequent Condition Evaluation	BAYSHORE BLVD	2019
4263	283B6045	East WRF	3	4	3 x 4	Frequent Condition Evaluation		
4264	292B6005	East WRF	3	4	3 x 4	Frequent Condition Evaluation	BAYSHORE BLVD	2019
4265	317A1010	East WRF	3	4	3 x 4	Frequent Condition Evaluation		
4266	308B5130	East WRF	3	4	3 x 4	Frequent Condition Evaluation		
4267	317A2020	East WRF	3	4	3 x 4	Frequent Condition Evaluation	COUNTRY OAKS LN	2019
4268	308B8135	East WRF	3	4	3 x 4	Frequent Condition Evaluation		
4269	310A4005	East WRF	3	4	3 x 4	Frequent Condition Evaluation		
4270	275A1020	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4271	283A1005	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4272	292A3070	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4273	292B6010	East WRF	3	3	3 x 3	Frequent Condition Evaluation	BAYSHORE BLVD	2019
4274	316B7070	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4275	274B6045	East WRF	3	3	3 x 3	Frequent Condition Evaluation	ALAMEDA AVE	2019

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
4276	297A3070	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4277	283B6065	East WRF	3	3	3 x 3	Frequent Condition Evaluation	BAYSHORE BLVD	2019
4278	288B5015	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4279	283B8010	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4280	317A3080	East WRF	3	3	3 x 3	Frequent Condition Evaluation	WINCHESTER RD	2019
4281	308B8100	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4282	317A4005	East WRF	3	3	3 x 3	Frequent Condition Evaluation	WINCHESTER RD	2019
4283	315B5005	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4284	297A3025	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4285	317A1080	East WRF	3	3	3 x 3	Frequent Condition Evaluation	COUNTRY OAKS LN	2019
4286	310A4015	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4287	292B6015	East WRF	3	3	3 x 3	Frequent Condition Evaluation	BAYSHORE BLVD	2019
4288	283B6075	East WRF	3	3	3 x 3	Frequent Condition Evaluation	BAYSHORE BLVD	2019
4289	297B7090	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4290	292A3040	East WRF	3	3	3 x 3	Frequent Condition Evaluation	BAYSHORE BLVD	2019
4291	317B7120	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4292	306B7200	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4293	299B7055	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4294	316B7075	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4295	291B8091	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4296	317B7020	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4297	308B8110	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4298	318A3005	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4299	308B5050	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4300	308B6020	East WRF	3	3	3 x 3	Frequent Condition Evaluation	CORONET LN	2020
4301	307A2005	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4302	308B5135	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4303	308B8125	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4304	317B7115	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4305	317B6040	East WRF	3	3	3 x 3	Frequent Condition Evaluation	S HAVEN DR	2019
4306	274A4025	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4307	283A2005	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4308	283B6055	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4309	300A4105	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4310	297A3055	East WRF	3	3	3 x 3	Frequent Condition Evaluation	S LAKE DR	2021
4311	283B8020	East WRF	3	3	3 x 3	Frequent Condition Evaluation	BAYSHORE BLVD	2019
4312	288B5020	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4313	316A4100	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4314	317B6020	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4315	317A3095	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4316	310A3010	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4317	274B8065	East WRF	3	3	3 x 3	Frequent Condition Evaluation	SAN DOMINGO CT	2019
4318	283A2010	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4319	317A1085	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4320	308B6015	East WRF	3	3	3 x 3	Frequent Condition Evaluation	CORONET LN	2020
4321	308B8145	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4322	317B6025	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4323	317B8005	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4324	308B5065	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4325	315A2065	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4326	300A2030	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4327	292A1045	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4328	292A1046	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4329	289A4065	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4330	307B7015	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4331	317B5090	East WRF	3	3	3 x 3	Frequent Condition Evaluation	ROSETREE CT	2019
4332	317B6005	East WRF	3	3	3 x 3	Frequent Condition Evaluation	ROSETREE CT	2019
4333	MH51	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4334	299A1085	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4335	299A1100	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4336	291B8025	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4337	315B7065	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4338	315B5010	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4339	290A2100	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4340	290A4095	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4341	297B7045	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4342	299A1115	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4343	308A1005	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4344	290A2110	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4345	316B7130	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4346	317B6015	East WRF	3	3	3 x 3	Frequent Condition Evaluation	S HAVEN DR	2019
4347	317A3085	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4348	317B5120	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4349	274B8015	East WRF	3	3	3 x 3	Frequent Condition Evaluation	ARLIE AVE	2018
4350	283A4035	East WRF	3	3	3 x 3	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
4351	274B6050	East WRF	3	3	3 x 3	Frequent Condition Evaluation	ALAMEDA AVE	2019
4352	274B6035	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4353	308B5055	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4354	283A1010	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4355	283B6070	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4356	299B7005	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4357	316A4105	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4358	315A2060	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4359	275A1015	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4360	283A4010	East WRF	3	3	3 x 3	Frequent Condition Evaluation	THOMAS RD	2019
4361	298A4035	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4362	300A2040	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4363	316A4080	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4364	317B7010	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4365	274B6010	East WRF	3	3	3 x 3	Frequent Condition Evaluation	ALAMEDA AVE	2019
4366	300A4095	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4367	298B5045	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4368	308A3040	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4369	317B8045	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4370	299B8110	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4371	297A3110	East WRF	3	3	3 x 3	Frequent Condition Evaluation	S LAKE DR	2021
4372	292A3015	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4373	317B7045	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4374	317A2030	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4375	274B8050	East WRF	3	3	3 x 3	Frequent Condition Evaluation	SAN DOMINGO CT	2019
4376	308B5110	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4377	317B6010	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4378	274B8060	East WRF	3	3	3 x 3	Frequent Condition Evaluation	MAXIMO AVE	2019
4379	298A4015	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4380	317A3090	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4381	317A2005	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4382	317A2015	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4383	317A3015	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4384	316B7045	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4385	297A4025	East WRF	3	3	3 x 3	Frequent Condition Evaluation	SKYVIEW AVE	2021
4386	283A4030	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4387	299B7060	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4388	283A4015	East WRF	3	3	3 x 3	Frequent Condition Evaluation	THOMAS RD	2019
4389	297A3115	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4390	299B7050	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4391	308A3075	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4392	299A1095	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4393	297A4065	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4394	290B6100	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4395	316A2030	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4396	274A4030	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4397	298A4020	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4398	310A3015	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4399	317A1005	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4400	290B6105	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4401	308B7010	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4402	310A3020	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4403	308B5085	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4404	306B7185	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4405	306B8200	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4406	297B7210	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4407	317B5005	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4408	309B7020	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4409	309B8045	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4410	307B7070	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4411	309B8005	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4412	274B8045	East WRF	3	3	3 x 3	Frequent Condition Evaluation	SAN DOMINGO ST	2019
4413	274B8070	East WRF	3	3	3 x 3	Frequent Condition Evaluation	SAN DOMINGO ST	2019
4414	299B5020	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4415	309B7115	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4416	308B5070	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4417	292A3060	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4418	299B5015	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4419	316A2035	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4420	315B7035	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4421	288B8015	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4422	288B6045	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4423	283A4020	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4424	306B6020	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4425	297B6125	East WRF	3	3	3 x 3	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
4426	308B5115	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4427	300B5115	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4428	301A1045	East WRF	3	3	3 x 3	Frequent Condition Evaluation		
4429	274B8100	East WRF	3	2	3 x 2	Frequent Condition Evaluation	SAN GABRIEL ST	2019
4430	274B6060	East WRF	3	2	3 x 2	Frequent Condition Evaluation	SAN CARLOS ST	2019
4431	274B8075	East WRF	3	2	3 x 2	Frequent Condition Evaluation	SAN DOMINGO ST	2019
4432	280A2125	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4433	290B6060	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4434	297B5050	East WRF	3	2	3 x 2	Frequent Condition Evaluation	TURNER ST	2021
4435	274A4050	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4436	298A4060	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4437	289B6080	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4438	274B6065	East WRF	3	2	3 x 2	Frequent Condition Evaluation	ALAMEDA AVE	2019
4439	288B6065	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4440	288B7015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4441	283A4080	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4442	297A3105	East WRF	3	2	3 x 2	Frequent Condition Evaluation	TURNER ST	2021
4443	283A4060	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4444	283A4055	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4445	283A4045	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4446	291B6010	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4447	299A1015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4448	301A1035	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4449	296B8155	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4450	317B5080	East WRF	3	2	3 x 2	Frequent Condition Evaluation	ROSETREE CT	2019
4451	307B7065	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4452	318A2070	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4453	309B6105	East WRF	3	2	3 x 2	Frequent Condition Evaluation	FAIRBANKS DR	2019
4454	306B8060	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4455	316A4060	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4456	307A3065	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4457	316A4070	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4458	306B8025	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4459	317A3065	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4460	299A4115	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4461	317A3050	East WRF	3	2	3 x 2	Frequent Condition Evaluation	STEWART BLVD	2019
4462	306B7190	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4463	292A3025	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4464	298B6030	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4465	309B7005	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4466	308A3055	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4467	309B7010	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4468	316A4065	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4469	317B5075	East WRF	3	2	3 x 2	Frequent Condition Evaluation	ROSETREE CT	2019
4470	306B7150	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4471	283A3085	East WRF	3	2	3 x 2	Frequent Condition Evaluation	SAN MATEO ST	2019
4472	297A4055	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4473	292A2025	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4474	300A2055	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4475	306B7055	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4476	317A3055	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4477	299A2035	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4478	300A2065	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4479	315A2015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4480	317A4030	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4481	309A2050	East WRF	3	2	3 x 2	Frequent Condition Evaluation	MORNINGSIDE DR	2019
4482	317A2150	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4483	283A3095	East WRF	3	2	3 x 2	Frequent Condition Evaluation	MADERA AVE	2019
4484	283A3090	East WRF	3	2	3 x 2	Frequent Condition Evaluation	SAN MATEO ST	2019
4485	283A4070	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4486	299B7010	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4487	299A2030	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4488	283A4075	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4489	300A2060	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4490	291B8055	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4491	297B7005	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4492	299A4110	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4493	297A3085	East WRF	3	2	3 x 2	Frequent Condition Evaluation	TURNER ST	2021
4494	297B7030	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4495	289B6005	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4496	290A2035	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4497	291A4065	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4498	291B6030	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4499	298B5085	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4500	290B6030	East WRF	3	2	3 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
4501	316A4005	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4502	314B8085	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4503	316A4085	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4504	317A3035	East WRF	3	2	3 x 2	Frequent Condition Evaluation	STEWART BLVD	2019
4505	306B8175	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4506	314B6015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4507	308A3030	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4508	314B6005	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4509	318A2065	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4510	317A2140	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4511	316A4075	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4512	306B7155	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4513	283A4005	East WRF	3	2	3 x 2	Frequent Condition Evaluation	THOMAS RD	2019
4514	274B8085	East WRF	3	2	3 x 2	Frequent Condition Evaluation	SAN DOMINGO ST	2019
4515	274B6040	East WRF	3	2	3 x 2	Frequent Condition Evaluation	MAXIMO AVE	2019
4516	298A2065	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4517	283A4090	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4518	283A4065	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4519	300A2070	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4520	283A4040	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4521	298B5035	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4522	292A3010	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4523	288B7040	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4524	280A2070	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4525	316B5065	East WRF	3	2	3 x 2	Frequent Condition Evaluation	EMBASSY DR	2020
4526	307B5035	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4527	317B7085	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4528	317B7005	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4529	316A4055	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4530	316A4010	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4531	314B8120	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4532	317B5055	East WRF	3	2	3 x 2	Frequent Condition Evaluation	SUMMERLIN DR	2019
4533	306B7160	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4534	316A4020	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4535	316A4015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4536	308A3035	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4537	309A4035	East WRF	3	2	3 x 2	Frequent Condition Evaluation	WHISPERING PINES DR	2019
4538	297B5055	East WRF	3	2	3 x 2	Frequent Condition Evaluation	TURNER ST	2021
4539	283A3020	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4540	283A4085	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4541	283A4050	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4542	289B5090	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4543	289B6015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4544	289B6030	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4545	289B6075	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4546	289B6120	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4547	289B6100	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4548	289B6145	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4549	289A3015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4550	289A3020	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4551	289A4005	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4552	288B8115	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4553	280A2095	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4554	280A2090	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4555	309A3045	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4556	314B8090	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4557	317B5105	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4558	317A2050	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4559	317A2055	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4560	317A2070	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4561	317A2110	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4562	317A2095	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4563	317B7015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4564	317B8050	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4565	317B8030	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4566	MH14	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4567	MH53	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4568	MH150	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4569	307B5005	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4570	316A4030	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4571	292A3045	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4572	299A1020	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4573	291B6050	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4574	298A1105	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4575	308A3015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
4576	309B5035	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4577	317B5065	East WRF	3	2	3 x 2	Frequent Condition Evaluation	SUMMERLIN DR	2019
4578	306B7045	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4579	318A2050	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4580	306B6050	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4581	315B7045	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4582	297B6105	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4583	314B8025	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4584	318A2060	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4585	306B6015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4586	306B8145	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4587	307B5080	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4588	316A4025	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4589	317B5035	East WRF	3	2	3 x 2	Frequent Condition Evaluation	GLENANN DR	2019
4590	309B6100	East WRF	3	2	3 x 2	Frequent Condition Evaluation	FAIRBANKS DR	2019
4591	314B8015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4592	290A4025	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4593	289B6115	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4594	288B8035	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4595	315B7015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4596	315B7040	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4597	306B6090	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4598	314B8140	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4599	317B7070	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4600	314B5010	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4601	309A4050	East WRF	3	2	3 x 2	Frequent Condition Evaluation	RANCHWOOD DR	2019
4602	315A1015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4603	290A4030	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4604	289B6110	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4605	308A3045	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4606	307A1205	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4607	314B7110	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4608	314B7010	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4609	306B8135	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4610	317A4015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4611	289B5060	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4612	289A3040	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4613	297A4060	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4614	307A1050	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4615	307A1095	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4616	307A1200	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4617	314B7145	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4618	274B8090	East WRF	3	2	3 x 2	Frequent Condition Evaluation	SAN GABRIEL ST	2019
4619	274B6055	East WRF	3	2	3 x 2	Frequent Condition Evaluation	SAN CARLOS ST	2019
4620	283A3040	East WRF	3	2	3 x 2	Frequent Condition Evaluation	SAN PEDRO ST	2019
4621	314B7045	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4622	292A2010	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4623	317B5060	East WRF	3	2	3 x 2	Frequent Condition Evaluation	SUMMERLIN DR	2019
4624	314B8095	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4625	314B7160	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4626	314B8050	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4627	292A1055	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4628	298B6025	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4629	297B6080	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4630	307A2040	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4631	307A1040	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4632	309B5045	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4633	274B8105	East WRF	3	2	3 x 2	Frequent Condition Evaluation	SAN CARLOS ST	2019
4634	298B5125	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4635	309A4030	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4636	306B8150	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4637	309B5010	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4638	296B8040	East WRF	3	2	3 x 2	Frequent Condition Evaluation	S HILLCREST AVE	2018
4639	288B6090	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4640	296B8025	East WRF	3	2	3 x 2	Frequent Condition Evaluation	S HILLCREST AVE	2018
4641	306B7025	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4642	314B7195	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4643	309A4065	East WRF	3	2	3 x 2	Frequent Condition Evaluation	WHISPERING PINES DR	2019
4644	315B7005	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4645	309B5090	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4646	289B5035	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4647	289B6040	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4648	297B6075	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4649	298B8015	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4650	314B7055	East WRF	3	2	3 x 2	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
4651	314B7325	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4652	299A2070	East WRF	3	2	3 x 2	Frequent Condition Evaluation		
4653	308A3125	East WRF	2	4	2 x 4	Frequent Condition Evaluation		
4654	317A2010	East WRF	2	4	2 x 4	Frequent Condition Evaluation		
4655	292A2105	East WRF	2	4	2 x 4	Frequent Condition Evaluation		
4656	232A4060	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4657	273A3095	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4658	273A3135	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4659	280A4070	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4660	280A4115	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4661	273A3035	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4662	280A4055	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4663	280B6040	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4664	273A3085	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4665	281A1030	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4666	280B6030	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4667	273A3060	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4668	273A3090	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4669	281A3080	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4670	273A3075	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4671	280A4095	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4672	280A4065	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4673	280B6005	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4674	280A4130	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4675	273A3100	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4676	178B8035	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4677	223A1010	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4678	289B7020	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4679	280A4080	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4680	280B6055	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4681	289B8080	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4682	280A4075	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4683	280B6020	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4684	271B8006	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4685	221A1010	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4686	233A1085	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4687	221B8025	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4688	280B6015	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4689	273A3080	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4690	280B8020	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4691	281A4050	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4692	280A4050	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4693	280A4140	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4694	290A3075	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4695	289B8010	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4696	280B8030	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4697	280A4110	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4698	289B8065	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation	RAINBOW DR	2018
4699	280A4135	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4700	280A4015	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4701	273A1065	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4702	280B6025	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4703	289B7115	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4704	289B8100	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4705	280B6095	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4706	279B8095	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4707	280B6050	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4708	261B7055	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4709	261B8015	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4710	261B8010	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4711	261B8005	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4712	289B7040	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4713	280A4035	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4714	280A4040	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4715	280B5030	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4716	280B6080	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4717	280B8015	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4718	280B8025	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4719	280B8040	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4720	280B6060	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4721	280B6075	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4722	280B6090	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4723	281A2003	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4724	MH16	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4725	MH17	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
4726	MH18	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4727	MH182	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4728	280A4020	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4729	264B6110	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4730	222B8065	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4731	221A4010	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4732	273B6030	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation	EDENWOOD ST	2020
4733	273A1115	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4734	280A4025	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4735	290A3080	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4736	221A1005	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4737	223A1005	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4738	178B7120	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4739	188B5150	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4740	272A4045	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4741	289B8090	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4742	264B6095	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4743	273A3030	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4744	290A1035	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4745	200A1050	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation	AUGUSTA DR W	2022
4746	264B6155	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4747	200A1025	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation	AUGUSTA DR W	2022
4748	232A4070	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4749	264A1010	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4750	271B6045	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4751	272B5025	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation	RIDGE TOP WAY	2023
4752	222A3050	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation	WINDING WOOD DR	2022
4753	273A3040	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4754	280A4030	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4755	289B8070	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation	RAINBOW DR	2018
4756	271B6040	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4757	261B7060	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4758	264A1020	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4759	280A4045	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4760	289B8075	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation	RAINBOW DR	2018
4761	188B5170	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4762	222B8095	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4763	223A1120	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4764	280B6035	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4765	222A3060	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4766	273A3140	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4767	261B8030	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4768	264A2010	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4769	261B8035	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4770	263B6105	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation	RIDGE TOP WAY	2023
4771	279B8080	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4772	281A1110	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4773	222B7065	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4774	279B8065	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4775	281A4030	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4776	222A3045	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4777	211B8095	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4778	281A1035	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4779	281A4040	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4780	280B6085	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4781	280B6045	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4782	280B6065	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4783	280B1125	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4784	222A3025	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4785	281A4005	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4786	289B7035	Northeast WRF	4	2	4 x 2	Frequent Condition Evaluation		
4787	273B6050	Northeast WRF	4	1	4 x 1	Frequent Condition Evaluation	HOMEWOOD ST	2020
4788	273B6055	Northeast WRF	4	1	4 x 1	Frequent Condition Evaluation	JADEWOOD AVE	2020
4789	212A1010	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4790	201A2005	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4791	262A4030	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4792	178B7045	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4793	254A4065	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation	ALBANY DR	2020
4794	272B7025	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4795	271B7055	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4796	262A4020	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4797	212A2030	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4798	178B7010	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4799	178B7015	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4800	233A1060	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
4801	262B8095	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4802	262B8090	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4803	272B7050	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4804	262B8070	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4805	178B7025	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4806	178B7020	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4807	178B7055	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4808	272B7045	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4809	MH172	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4810	MH173	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4811	271B7040	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4812	273A1145	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4813	272A1005	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4814	212A2050	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4815	272A1010	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4816	282A4080	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4817	290B7030	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4818	274A3020	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4819	178B7070	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4820	262A3105	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4821	262A4005	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4822	272A3095	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4823	272A1060	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4824	212A1035	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4825	265A1070	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4826	265A2005	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4827	265A4035	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4828	272A3135	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4829	265A4025	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4830	265A4020	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4831	262B8060	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4832	178B7005	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4833	201A2010	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4834	282A2050	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4835	178B5025	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4836	265A4030	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4837	262B8055	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4838	233A1050	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4839	254A4075	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation	MEADOW DR	2020
4840	262B6015	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4841	290B7035	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4842	255A4025	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4843	273A2020	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4844	272B6095	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4845	178B7090	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4846	201A2020	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4847	262A3100	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4848	262B8080	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4849	254A2010	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4850	262B6030	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4851	262A3095	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4852	212A2020	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4853	262B8085	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4854	274A3025	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4855	178B5020	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4856	254A4060	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation	ATLANTIS DR	2020
4857	263A1005	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4858	201A2045	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4859	211B8115	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4860	262B8065	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4861	212A1005	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4862	232B5050	Northeast WRF	3	4	3 x 4	Frequent Condition Evaluation		
4863	232B5045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4864	232B7055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4865	188B5055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4866	222B8145	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4867	223A2080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4868	179A1075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4869	223A2055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4870	232A3025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4871	222B5080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4872	189B8055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4873	178B5090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4874	189B8045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4875	222B6110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
4876	232B7020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4877	223A2090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4878	221B6055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4879	178A1005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4880	189B5015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4881	232B7065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4882	211A1020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4883	223A1070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4884	222A4090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	WINDING WOOD DR	2022
4885	222B6115	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4886	232B7045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4887	221B6085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4888	223A1125	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4889	222B6035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4890	234A1010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4891	221B6015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4892	233B7010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4893	178B6040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4894	222A4080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	WINDING WOOD DR	2022
4895	189B7070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4896	253B8135	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4897	265A2065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4898	201A2035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4899	178A1015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4900	189B8025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4901	189B5020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4902	189A2015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4903	273B5010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4904	263B8090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	STAG RUN BLVD	2023
4905	262A3015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4906	280B5075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4907	282A3075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FAIRWOOD FOREST DR	2020
4908	273A1135	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4909	254B8080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4910	265A2155	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	ST. JOHN DR	2022
4911	271B7030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4912	254A2020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4913	273A1060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4914	264B8005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	ST. CROIX DR	2022
4915	264B8075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	CATHERINE DR	2022
4916	262B8035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4917	274A3015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4918	263A1110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4919	262A3090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4920	262B7010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4921	274A3010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4922	253B6045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4923	262A1025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4924	265A2020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4925	263B7085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4926	282A3030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FAIRWOOD FOREST DR	2020
4927	282A3050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FAIRWOOD LN	2020
4928	262A1010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4929	263B8045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	STAG RUN BLVD	2023
4930	262B5040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4931	280B5120	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4932	263A1100	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4933	262B6010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4934	254A4055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	YALE DR	2020
4935	223A2040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4936	232A3035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4937	178A1065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4938	189B8040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4939	232B5055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4940	263B8050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	STAG RUN BLVD	2023
4941	263B7045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4942	263B7040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4943	263A1045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4944	273A1085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4945	280B5080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4946	265A1015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4947	262B8010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	MANOR BLVD N	2023
4948	265A1050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4949	272A2045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4950	272B6030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	OLD COACH TRL	2023

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
4951	264B8010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	ST. CROIX DR	2022
4952	263A1075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4953	254B8085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4954	290B7090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4955	273A4060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	BEACHWOOD AVE	2020
4956	262A3085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4957	254A4080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	ELLIOTT DR	2020
4958	273A1075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4959	262A3005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4960	263A1070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4961	290B7125	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4962	282A3060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FAIRWOOD FOREST DR	2020
4963	282A2080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4964	280B5115	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4965	263B8055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	STAG RUN BLVD	2023
4966	263A3055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4967	222A1030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4968	189B8065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4969	232A3020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4970	232B5090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4971	189B7060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4972	178B6045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4973	223A1020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4974	222B5120	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4975	189A3020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4976	179A2020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4977	178B5095	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4978	221B8160	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4979	211B8055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4980	221A2045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4981	221B6025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4982	254B8025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4983	265A2055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4984	223A2060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4985	212A1060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4986	188B5050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4987	254B7040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4988	212A1025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4989	232A3015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4990	201A1015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4991	223A1080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4992	178A1045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4993	222B5090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4994	222B6045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4995	178B7065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4996	178B5005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4997	223A2035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4998	178B6050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
4999	281A4045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5000	254B8045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5001	280B5150	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5002	280A4010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5003	280A4060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5004	281A4035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5005	280A2045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5006	282A2090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5007	281A4070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5008	281A4060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5009	290A3055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5010	212A2015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5011	178A3050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5012	188B5095	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5013	212A1050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5014	222A4115	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5015	254B8055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5016	222A4065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	WINDING WOOD DR	2022
5017	254B7035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5018	222B6040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5019	212A1045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5020	221B8145	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5021	178A3005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5022	221A2040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5023	178B5010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5024	178A1010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5025	222B5085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
5026	221B8150	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5027	201A2015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5028	221B6070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5029	222A4085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	WINDING WOOD DR	2022
5030	212A1040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5031	233A1055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5032	201A2030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5033	222A4050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	WINDING WOOD DR	2022
5034	232B7095	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5035	188B5090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5036	222A4015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	WINDING WOOD DR	2022
5037	212A1055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5038	178A3010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5039	178B5045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5040	189B8060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5041	253B6010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5042	200A1055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5043	188B5075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5044	222A4030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	WINDING WOOD DR	2022
5045	223A1015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5046	232A3030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5047	223A2005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5048	262A3025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5049	282A3055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5050	254B6055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5051	280B5155	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5052	262A1020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5053	262B5055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5054	254A4070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5055	265A4040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5056	265A2060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5057	262A3010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5058	282A3085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FAIRWOOD FOREST DR	2020
5059	262B8030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5060	264B8020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	ST. CROIX DR	2022
5061	273A1130	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5062	282A3040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FAIRWOOD FOREST DR	2020
5063	262B5045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5064	273A1090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5065	280A3005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5066	273A3025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5067	272A2005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5068	271B7010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5069	262A3110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5070	262B5050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5071	280B5125	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5072	262B7005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5073	262B5075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5074	281A3025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5075	262B6020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5076	273A3010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5077	281A3030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5078	272B6025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	OLD COACH TRL	2023
5079	273A4070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	BEACHWOOD AVE	2020
5080	265A2070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5081	256A2155	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5082	290A3045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5083	290B7100	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5084	290B7065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5085	282A2115	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5086	282A2120	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5087	290B7060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5088	274A2005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5089	281B6012	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5090	221A4055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5091	200B5040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5092	254B8095	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5093	222A4025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5094	222A4070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	WINDING WOOD DR	2022
5095	211B8105	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5096	222B8130	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5097	222B6125	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5098	222B5050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5099	234A1005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5100	254B8030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
5101	233B7005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5102	232B7040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5103	222B5065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5104	179A1135	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5105	232B5110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5106	233B5020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5107	221A2055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5108	179A2045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5109	253B6005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5110	189B5035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5111	223A2085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5112	178A3055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5113	211A4040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5114	222B8125	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5115	243B8105	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5116	211A3115	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5117	222B7035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5118	178B5180	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5119	221A2050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5120	189B7075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5121	221B8165	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5122	221B6030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5123	254B8090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5124	223A2075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5125	254B7045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5126	178B5015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5127	212A1030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5128	262A3070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5129	280A2005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5130	282A3035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FAIRWOOD FOREST DR	2020
5131	262B6025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5132	280B5095	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5133	263A1095	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5134	254A2015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5135	282A3045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FAIRWOOD LN	2020
5136	265A2080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	LAWRENCE DR	2022
5137	263B7060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5138	265A2050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5139	274A3005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5140	273A1110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5141	271A4020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5142	263B8060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	STAG RUN BLVD	2023
5143	262A1015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5144	271B7070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5145	271B7025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5146	272A3060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5147	254B6050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5148	262B5085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5149	253B8130	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5150	262B5080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5151	265A2095	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	CATHERINE DR	2022
5152	265A2100	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	CATHERINE DR	2022
5153	272A1055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5154	280B5060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5155	262A3030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5156	256A2160	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5157	290B7050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5158	290A3050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5159	290B7045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5160	290B7110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5161	290B7070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5162	282A2085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5163	290B7055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5164	201A2016	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5165	274A4012	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5166	201A2017	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5167	211A4022	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5168	262B6005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5169	201A2050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5170	211B6150	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5171	222A4105	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	DOGWOOD CT	2022
5172	264B8006	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5173	253B8125	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5174	265A2025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5175	265A2045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		

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*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
5176	273A1155	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5177	273A4005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5178	273A4010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5179	271B7050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5180	271B7005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5181	290A1025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5182	290A1015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5183	280A2040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5184	280B5040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5185	280B5070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5186	280B5035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5187	280B5045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5188	280B5100	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5189	280B5135	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5190	280B5055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5191	280B5065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5192	280B5130	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5193	280B5050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5194	232B8070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5195	272A3110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FARRIER TRL	2023
5196	272A3120	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FLINT LOCK DR	2023
5197	272A3100	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	STAG RUN BLVD	2023
5198	272A4015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	OLD COACH TRL	2023
5199	273A1095	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5200	MH105	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5201	MH106	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5202	MH107	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5203	MH133	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5204	MH154	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5205	MH156	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5206	254A2025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5207	273A2025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5208	232A3010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5209	282A2110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5210	222B7040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5211	223A2095	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5212	272A3090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	STAG RUN BLVD	2023
5213	272A4010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	OLD COACH TRL	2023
5214	253A2130	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5215	233A1070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5216	264B8015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	ST. CROIX DR	2022
5217	281A1080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5218	290A1010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5219	178B7075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5220	280A4145	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5221	178A3015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5222	262A3020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5223	280B8120	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5224	280B8130	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5225	211A4095	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5226	291A1010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5227	272A3125	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FLINT LOCK DR	2023
5228	272A3140	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	OLD COACH TRL	2023
5229	280B1100	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5230	178A1090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5231	189A3040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5232	254B7005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5233	223A2025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5234	254B8100	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5235	178B6095	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	COUNTRYSIDE BLVD	2022
5236	280B5085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5237	265A2135	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	LAWRENCE DR	2022
5238	178B6065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FAIR GREEN DR	2022
5239	222B6135	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5240	211A4020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5241	233B7035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5242	254B6045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	W SKYLINE DR	2020
5243	281B5020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5244	178B6120	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	MASTERS DR	2022
5245	273A1160	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5246	211B8035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5247	263B8085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	STAG RUN BLVD	2023
5248	254B8005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5249	222B5055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5250	280A2015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
5251	178A4150	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5252	178B5035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5253	232A3040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5254	189A2005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5255	188B5100	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5256	200B8060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5257	222B6005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5258	211B6135	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5259	178A4145	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5260	222A4095	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	WINDING WOOD DR	2022
5261	233B8035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5262	188B5160	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5263	221A2030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5264	263B7035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5265	263B7080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5266	273B6140	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	NUTWOOD ST	2020
5267	263A3135	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5268	262B7085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5269	262A3050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5270	254B8110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5271	290B7085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5272	178A1040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5273	223A1135	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5274	274A3045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5275	262A3065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5276	272A3035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5277	264B6015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	ST. CROIX DR	2022
5278	280B5090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5279	282A4005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5280	256A2150	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5281	263A3080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5282	281B6011	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5283	221B6080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5284	290A3060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5285	223A2020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5286	211B6130	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5287	271A4025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5288	263B7055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5289	221B6045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5290	178B8070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5291	222B6105	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5292	178B6030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5293	200A1060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5294	189A3065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5295	282A3095	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FAIRWOOD FOREST DR	2020
5296	189B7055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5297	281A4055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5298	222B5115	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5299	254A4025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	ATLANTIS DR	2020
5300	201A1010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5301	190A1110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5302	232A3045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5303	188B5165	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5304	211A3085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5305	223A2030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5306	263B7025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5307	262A3035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5308	254B6025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	E SKYLINE DR	2020
5309	274A3035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5310	263B7050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5311	274A3040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5312	262A3080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5313	273B5055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5314	262B5060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5315	256A2135	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5316	273A1050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5317	222B6085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5318	179A1115	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5319	179A2040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5320	222A3165	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	WINDING WOOD DR	2022
5321	233B7050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5322	223A1150	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5323	188B5125	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5324	211B6140	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5325	233B5040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
5326	274A3030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5327	272A2010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5328	262A4010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5329	263B6070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	STAG RUN BLVD	2023
5330	263A1140	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5331	273B6120	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FAIRWOOD AVE	2020
5332	290B7075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5333	211B6145	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5334	211A4085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5335	264B8040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5336	273B5045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5337	273A4075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5338	290A1030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5339	280B8070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5340	281A4065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5341	272A3065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	STAG RUN BLVD	2023
5342	233B5025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5343	179A1005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5344	244A1035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5345	273B6130	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	JADEWOOD AVE	2020
5346	271B6030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5347	222B8140	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5348	178B7080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5349	263A2080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	S LAGOON CIR	2023
5350	200B6015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5351	253B8110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5352	190A1075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5353	263A2085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	S LAGOON CIR	2023
5354	272A2015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5355	222A4110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	CYPRESS BEND DR	2022
5356	178B7110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5357	253B6015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5358	189B8080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5359	272B6005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	OLD COACH TRL	2023
5360	233B8040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5361	254A4040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5362	200A1075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	AUGUSTA DR S	2022
5363	179A1105	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5364	179A1125	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5365	281B6005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5366	232A3050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5367	263A1160	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	MANOR BLVD N	2023
5368	263B7070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5369	264B8025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	SUE DR	2022
5370	271B7035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5371	272A3055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	FARRIER TRL	2023
5372	255A4010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5373	222B5070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5374	221A2075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5375	178A1110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5376	189B7030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5377	200B6040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5378	211B7110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5379	283A1015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5380	282B5010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	PARK TRAIL LN	2020
5381	281A1075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5382	290A3020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5383	178A3035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5384	211B6175	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5385	290A3030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5386	221B8155	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5387	188B5085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5388	290A3025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5389	290A3040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5390	253B8120	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5391	280A2020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5392	289B7070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5393	211A4090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5394	254B7030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5395	221A4060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5396	222A3030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	WINDING WOOD DR	2022
5397	282B5015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	PARK TRAIL LN	2020
5398	211A4115	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5399	200A1040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5400	282A2100	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
5401	282A2105	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5402	211B8070	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5403	221B8115	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5404	211B8130	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5405	188B5045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5406	273B5005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5407	265A2015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	ST. CROIX DR	2022
5408	289B7075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5409	291A3005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5410	291A3015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5411	188B5065	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5412	254A4050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5413	255A4060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5414	281A3020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5415	281A4020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5416	221A3015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5417	272B8040	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5418	280B8060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5419	211B6165	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5420	232B7090	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5421	282B5005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	PARK TRAIL LN	2020
5422	211B6180	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5423	211B6155	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5424	211B6160	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5425	222B5095	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5426	264A4020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	N TERRACE DR	2022
5427	281B5010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5428	255A3035	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5429	273B8075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	NUTWOOD ST	2020
5430	273B6125	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	GRANTWOOD AVE	2020
5431	280B8100	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5432	211B8110	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5433	289B7050	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5434	200A1045	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	PEBBLE BEACH DR	2022
5435	189B8030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5436	254A4030	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5437	189B8020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5438	264A2060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5439	273A4055	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	DOVEWOOD ST	2020
5440	273B5020	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5441	263B6075	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	STAG RUN BLVD	2023
5442	281A4015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5443	221A3005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5444	273A4080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5445	264A3005	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5446	264A3165	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5447	188B7080	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5448	200A1085	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	CLUBHOUSE DR N	2022
5449	273B6135	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation	NUTWOOD ST	2020
5450	232B7015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5451	253A4060	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5452	211A1025	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5453	211B7010	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5454	262B8015	Northeast WRF	3	3	3 x 3	Frequent Condition Evaluation		
5455	178A4035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5456	232A3080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5457	189A1030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5458	178B8050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5459	200B8065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5460	222B8015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5461	189A1065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5462	179A2035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5463	222B8010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5464	189A3005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5465	189B7050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5466	178B5145	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5467	190A1025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5468	245A1025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5469	232A3100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5470	178A1025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5471	178B8015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5472	232A1045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5473	190A2055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5474	189A1055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5475	222B6020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
5476	222B5110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5477	189B8100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5478	188B7065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5479	223A1140	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5480	211B7085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5481	211B6045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ROCKLEDGE LN	2022
5482	189A2020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5483	178A4015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5484	254A4005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	AMERICUS DR	2020
5485	179A2075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5486	233B7025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5487	190A2050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5488	178B5060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5489	233B7015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5490	232A3115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5491	232A4035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5492	222B6065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5493	233A2015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5494	211B6075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	QUAIL HOLLOW RD E	2022
5495	221A1055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5496	189B7035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5497	244B6005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5498	189B5010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MASTERS DR	2022
5499	221B6050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5500	233B8015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5501	189A3060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5502	179A1120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5503	222A2060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CYPRESS BEND DR	2022
5504	189B6005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MASTERS DR	2022
5505	188B7165	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5506	188B7070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5507	233B7065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5508	221A2070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5509	211B7080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5510	188B7050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5511	211B8020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5512	189A2095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5513	211B6085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5514	222A2040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	BRIARWOOD CT	2022
5515	232A3060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5516	252B8020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5517	188B5155	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5518	178B6080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MASTERS DR	2022
5519	233B7090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5520	222B8030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5521	200A1020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	AUGUSTA DR N	2022
5522	189A2010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5523	200A2045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5524	222B8060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5525	211B5010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5526	222A2005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WINDING WOOD DR	2022
5527	190A2080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5528	200A2010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ST. ANDREWS DR	2022
5529	222B6130	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5530	222B6120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5531	211B7030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5532	189B7010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5533	211B6115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5534	253B8010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5535	178A4130	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5536	232A3055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5537	221A1090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5538	178B6070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	FAIR GREEN DR	2022
5539	232A4075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5540	200B6060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5541	188B7130	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5542	200B6005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5543	200B6010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5544	211B8030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5545	179A1080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5546	211A3095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	QUAIL HOLLOW RD W	2022
5547	222A2010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WINDING WOOD DR	2022
5548	178B6035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MASTERS DR	2022
5549	189A2080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5550	222B6140	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
5551	222A2030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HOLLYHOCK CT	2022
5552	178B8105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5553	211B7035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5554	178B8060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5555	221A4030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5556	179A2090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5557	188B7135	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5558	244B8045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5559	189A1035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5560	178B8125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5561	178A2060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5562	263A4110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5563	263A4075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WETHERINGTON RD	2023
5564	273A1015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5565	263A2090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	S LAGOON CIR	2023
5566	263A2095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	S LAGOON CIR	2023
5567	265A1055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5568	263B6010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5569	273B5075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5570	273B5025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5571	189A3015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5572	221A1075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5573	200A2075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5574	221A1015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5575	179A2050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5576	200A2050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WESTCHESTER DR N	2022
5577	211B7055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5578	211B6095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5579	211A3070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WESTCHESTER DR S	2022
5580	222A3085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5581	233B7020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5582	189B7040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5583	222A3095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	PEACHTREE CIR E	2022
5584	179A2055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5585	200A2005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ST. ANDREWS DR	2022
5586	178B8075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HYDE PARK DR	2022
5587	188B7025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5588	211B6025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	FOREST VIEW DR	2022
5589	232A4130	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5590	189A1060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5591	222B6100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5592	189A4030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5593	263A2010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MANOR BLVD N	2023
5594	263A2075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	RAGLAND AVE	2023
5595	273B6025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	EDENWOOD ST	2020
5596	272A3080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WIND GAP PL	2023
5597	262B7070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5598	263B5045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5599	265A1005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5600	252B8050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5601	254B6005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	E SKYLINE DR	2020
5602	272A2040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5603	263A1065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5604	273B5065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5605	272B5040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MISTY PLATEAU TRL	2023
5606	253B8020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5607	264B6010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ST. CROIX DR	2022
5608	263A1145	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5609	272A3075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WIND GAP PL	2023
5610	263B5060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5611	263B8080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	STAG RUN BLVD	2023
5612	263B7100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5613	256A2120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5614	253B8070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5615	254B6035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	RAYMONT DR	2020
5616	256A2025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5617	252B8045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5618	264B6070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5619	264B8095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ST. JOHN DR	2022
5620	254A4010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5621	264B8050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5622	254B6030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	W SKYLINE DR	2020
5623	254B6020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	SUMMIT DR	2020
5624	264B8080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5625	253B8040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
5626	264B6085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5627	272A3050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	COACHMAKERS LN	2023
5628	253B8025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5629	265A1065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5630	264B6065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5631	273A1025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5632	281B5025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5633	263A3090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5634	263B6055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5635	253B6020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5636	281A3055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5637	273B5070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5638	263B6035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5639	263B7010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5640	263A4025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5641	272A3015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5642	256A2095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5643	262A4015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5644	263A3125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	EMORY DR	2020
5645	263A4005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5646	263A1080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5647	263B8040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5648	263A3120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	VANDERBILT DR	2020
5649	272B5010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MISTY PLATEAU TRL	2023
5650	264B6040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ST. CROIX DR	2022
5651	263A2060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	RAGLAND AVE	2023
5652	178A1050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5653	211B7095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5654	221A2025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5655	222B8085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5656	211A3090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	QUAIL HOLLOW RD W	2022
5657	189A1050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5658	178B6130	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HYDE PARK DR	2022
5659	211A3025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	SEA PINES CIR E	2022
5660	256A2045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5661	272A2025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5662	264B6150	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5663	263A1035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5664	200B6070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5665	178A4115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5666	179A2030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5667	265A1040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5668	256A2085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5669	263A2025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MANOR BLVD N	2023
5670	263A2005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MANOR BLVD N	2023
5671	253B8065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5672	256A2055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5673	256A2070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5674	262B7080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5675	263B5050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5676	263A3030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5677	263A4010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5678	263B6040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5679	264B6140	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5680	263A1120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5681	263B7030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5682	263A3075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5683	272B5020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	COACHMAKERS LN	2023
5684	273B6100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	GRANTWOOD AVE	2020
5685	263B6085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	STAG RUN BLVD	2023
5686	264A2025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5687	264B6080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5688	282A3065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	FAIRWOOD FOREST DR	2020
5689	263A1015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5690	263A1030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5691	264B8045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5692	263A3065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5693	256A2075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5694	263B7005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5695	256A2090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5696	263A2040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	RAGLAND AVE	2023
5697	255B8010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5698	281A3050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5699	289B8085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5700	263A1115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
5701	281B6007	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5702	200A2055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	TORREY PINES CT	2022
5703	189A1015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5704	222A2055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CYPRESS BEND DR	2022
5705	253B8035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5706	232A4045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5707	253B8105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5708	263A4080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WETHERINGTON RD	2023
5709	255B8015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5710	253B8030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5711	233B7030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5712	232A1140	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5713	222B7120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5714	222B8020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5715	244B8010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5716	222A3120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5717	190A2085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5718	200A2025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	COUNTRYCLUB DR	2022
5719	245A1010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5720	234A1085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5721	189A2045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5722	178B8065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5723	178A2050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5724	232A2035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5725	222B7110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5726	211B7105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5727	200A2060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CLUBHOUSE DR W	2022
5728	221A1095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5729	222B5025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5730	189A3070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5731	253B6030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5732	211B7060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5733	190A1030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5734	234A1125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5735	222B7100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5736	179A1070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5737	223A2050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5738	178B8020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5739	253B6040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5740	178A1020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5741	222B5045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5742	244B8005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5743	232A4025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5744	178B8100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HYDE PARK DR	2022
5745	244B8055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5746	211B7045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5747	222B8105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5748	211A3040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	SEA PINES CIR E	2022
5749	178B6110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MASTERS DR	2022
5750	222B7030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5751	189A2050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5752	211B7115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5753	190A2070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5754	263B7015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5755	273B6090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	DOVEWOOD ST	2020
5756	189B6035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5757	190A1065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5758	211B5040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	BRIARBLUFF LN	2022
5759	244B6065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5760	189B7080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5761	178A4075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5762	222A3110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	PEACHTREE CIR E	2022
5763	233B7110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5764	222B6030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5765	211A3050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	SEA PINES CIR W	2022
5766	189A1005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5767	211B6070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	LONG VIEW DR	2022
5768	188B7100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5769	221A1085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5770	222B8005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5771	211B7075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5772	189A4050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HYDE PARK DR	2022
5773	178B8045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5774	178A2020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5775	211A4045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
5776	178A1035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5777	188B7110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5778	222B5020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5779	190A1005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5780	200B8070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5781	244B8040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5782	178B6105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HYDE PARK DR	2022
5783	211B6040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CAPWOOD LN	2022
5784	233B7055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5785	221A1080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5786	221A1070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5787	232A1005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5788	190A2075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5789	222A2035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HICKORY CT	2022
5790	179A2065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5791	234A1110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5792	211B6110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5793	244B6030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5794	252B8025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5795	211B6125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5796	222A3170	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5797	232A1130	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5798	244B6020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5799	244B8025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5800	211A4055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5801	222B5035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5802	190A2065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5803	211B5035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	QUAIL HOLLOW RD E	2022
5804	178A4030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5805	222A4100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CYPRESS BEND DR E	2022
5806	200A4020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WESTCHESTER DR N	2022
5807	222A2050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CYPRESS BEND DR	2022
5808	200A2080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5809	232A3090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5810	233B7075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5811	200A1015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5812	211B6030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	FOREST VIEW DR	2022
5813	211B7065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5814	232A2115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5815	200A1005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5816	190A2060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5817	222A3065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	PEACHTREE CIR	2022
5818	232A4015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5819	223A2010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5820	222B6050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5821	211B6100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	QUAIL HOLLOW RD E	2022
5822	189B8035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5823	211B6120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5824	200B6080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5825	200A2030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	COUNTRYCLUB DR	2022
5826	222A3040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	PEACHTREE CIR	2022
5827	232A4125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5828	234A1070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5829	290A3090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5830	272B5015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	COACHMAKERS LN	2023
5831	264A2035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5832	281B6006	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5833	290A3100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5834	188B5175	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5835	244B6010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5836	189B6010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HYDE PARK DR	2022
5837	232A2095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5838	178A3085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5839	178A4020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5840	232A3125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5841	189A1040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5842	188B7115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5843	244B6060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5844	233B7105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5845	222B5030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5846	178A2100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5847	211A1005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CLUBHOUSE DR S	2022
5848	188B7125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5849	188B7015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5850	244B6050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
5851	211B7005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5852	253B8005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5853	189A3045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5854	221B6075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5855	188B7095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5856	232A4040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5857	232A4080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5858	200A1065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	AUGUSTA DR S	2022
5859	222B8025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5860	253B6060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5861	234A1130	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5862	179A2085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5863	234A1090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5864	178B8080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5865	200A2035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CLUBHOUSE DR W	2022
5866	178A1105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5867	189A1070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5868	222A2025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CYPRESS BEND DR W	2022
5869	188B7090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5870	256A2080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5871	221A4025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5872	245A1020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5873	253B8015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5874	178B8130	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5875	178B8040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5876	244B8095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5877	232A3110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5878	211B7025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5879	200A3005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HYDE PARK DR	2022
5880	253B8045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5881	200B6075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5882	178B8095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5883	234A1120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5884	253B8080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5885	190A1020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5886	211B6065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	LONG VIEW DR	2022
5887	244B6070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5888	189A3055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5889	254A4015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ATLANTIS DR	2020
5890	188B7140	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5891	189A2100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5892	178A2015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5893	200B6085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5894	211B8010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5895	232A2130	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5896	211A3080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	QUAIL HOLLOW RD W	2022
5897	222B7080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5898	222B8070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5899	188B7160	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5900	232A4065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5901	190A1035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5902	222B8055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5903	188B7055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5904	189B5005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MASTERS DR	2022
5905	190A1050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5906	233B8010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5907	189A3035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5908	256A2040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5909	179A1020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5910	232A3120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5911	211B8005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5912	178A2055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5913	245A1015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5914	232A1125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5915	244B8015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5916	189B7005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5917	178B8030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5918	232A1110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5919	178B6085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5920	232A3095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5921	232A3075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5922	233B7040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5923	178A4045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5924	190A1045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5925	221A4020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
5926	221A4015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5927	189A1010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5928	233B7060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5929	211B6105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5930	189A2040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5931	254A4020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5932	200A2070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WESTCHESTER DR N	2022
5933	188B7155	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5934	254B6010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	W SKYLINE DR	2020
5935	188B7060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5936	188B7075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5937	221A2080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5938	178A4055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5939	200A1010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5940	178B6135	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HYDE PARK CT	2022
5941	200A2040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5942	200B5055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5943	178B5055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5944	211A3020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	SEA PINES CIR E	2022
5945	200A2065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WESTCHESTER DR N	2022
5946	189A2060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5947	221A1030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5948	189A2055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5949	211B5005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5950	179A2060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5951	245A1005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5952	232A3135	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5953	244B6055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5954	244B8030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5955	189A2070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5956	178B8110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5957	222B8090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5958	264B6120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5959	272B5130	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5960	273B5040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5961	263A3025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5962	262B8005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5963	263A4015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5964	264B6100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5965	264B6145	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	LORI DR	2022
5966	264B6050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5967	253B8085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5968	263A3110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	PRINCETON DR	2020
5969	272A4035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5970	263A2015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	RAGLAND AVE	2023
5971	281B5030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5972	272A2030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5973	281A3040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5974	263B6050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5975	263A2045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5976	262A4025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5977	262A3060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5978	264B6135	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5979	263A4070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WETHERINGTON RD	2023
5980	254B8105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5981	264B6030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ST. CROIX DR	2022
5982	272B5120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5983	263A4020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5984	281B6010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5985	272B5110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	RIDGE TOP WAY	2023
5986	263A1020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5987	263A3115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	VANDERBILT DR	2020
5988	264B8070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CATHERINE DR	2022
5989	264B8030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	SARAH DR	2022
5990	264B8100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5991	264B8055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5992	289B8095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5993	263B7081	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5994	179A1035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5995	233B7100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5996	190A2025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5997	189A2030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5998	222B7025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
5999	200A1080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6000	178A4060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
6001	222B6025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6002	256A2050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6003	232A2045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6004	200A4035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WESTCHESTER DR N	2022
6005	232A1145	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6006	222B8080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6007	189B5060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MASTERS DR	2022
6008	211B8060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6009	200A1070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	AUGUSTA DR S	2022
6010	188B5145	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6011	222B8075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6012	189A2025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6013	222B6080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6014	211B7040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6015	189A2105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6016	188B7085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6017	178B8055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6018	200B6065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6019	200B8075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6020	232A1040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6021	188B7150	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6022	221A2015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6023	233B7080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6024	211B5020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	QUAIL HOLLOW RD W	2022
6025	178B5040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6026	233B7070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6027	188B5140	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6028	244B8035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6029	232A3070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6030	252B8070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6031	211A3110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	TIMBERLINE CT	2022
6032	232A1120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6033	188B7105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6034	254B6015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	E SKYLINE DR	2020
6035	189B8090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6036	200B6025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6037	200A4025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WESTCHESTER DR N	2022
6038	222B6010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6039	256A2060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6040	189A2085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6041	178A2095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6042	189A1025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6043	222B5005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6044	178A1060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6045	244B6040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6046	253B6035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6047	178B8090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6048	178A2080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6049	178A2030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6050	178B8120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6051	232A1020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6052	222B6060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6053	178B6025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6054	222B5105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6055	189A2065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6056	178A2085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6057	252B8015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6058	189A1045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6059	178B6115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HYDE PARK DR	2022
6060	178B8085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6061	200B6035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6062	200B6090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6063	223A2015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6064	211B5030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	QUAIL HOLLOW RD W	2022
6065	189A1020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6066	200A4030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WESTCHESTER DR N	2022
6067	232A1150	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6068	222A2045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CYPRESS BEND DR	2022
6069	253B8060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6070	211B7100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6071	244B6045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6072	211B8015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6073	179A1095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6074	179A1060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6075	188B7035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
6076	178B8115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6077	200B6030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6078	201A1005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6079	211B8090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6080	232A3065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6081	178A1030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6082	222B6055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6083	211B6035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	QUAIL HOLLOW RD E	2022
6084	178B6090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MASTERS DR	2022
6085	223A1155	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6086	211B8025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6087	222A2015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WINDING WOOD DR	2022
6088	223A2045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6089	232A2110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6090	252B8010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6091	189B5030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MONTROSE LN	2022
6092	222B8050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6093	221A1020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6094	178A1055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6095	200B6020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6096	233B5005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6097	211B8040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6098	178B7105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6099	222A2020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WINDING WOOD DR	2022
6100	253B6025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6101	188B7120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6102	211A3030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	SEA PINES CIR E	2022
6103	189A4025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6104	178B6075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	FAIR GREEN DR	2022
6105	178A4065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6106	190A1040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6107	255A4005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6108	211A4035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6109	200A4050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	BURNING TREE LN	2022
6110	178A2025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6111	178B7085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6112	232A1105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6113	211B6090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6114	253B6055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6115	252B8005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6116	222A4075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WINDING WOOD DR	2022
6117	222B6090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6118	222A3115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6119	222B6070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6120	189A2075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6121	222B6015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6122	222B8035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6123	273B5060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6124	262A3040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6125	263B5030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6126	262A3045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6127	263B6025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6128	263A1085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6129	263A2020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	W LAGOON CIR	2023
6130	263A3105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6131	256A2130	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6132	263A3095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6133	263A4085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	STAG RUN BLVD	2023
6134	263B8005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6135	282A3090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6136	272B5105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MISTY PLATEAU TRL	2023
6137	263A4090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	STAG RUN BLVD	2023
6138	264B6125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ST. CROIX DR	2022
6139	262B7075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6140	263B7020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6141	263B7075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6142	263A3010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6143	281B5015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6144	263A3015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6145	264B8105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6146	262B8040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6147	263A1050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6148	263A1090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6149	264B8110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	LEONARD DR	2022
6150	264B6165	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ST. JOHN DR	2022

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
6151	262A3055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6152	263B5035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6153	272A2020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6154	264B6005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ST. CROIX DR	2022
6155	262A3075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6156	263A2035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	W LAGOON CIR	2023
6157	263B6090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	STAG RUN BLVD	2023
6158	263B5040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6159	264B6020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ST. CROIX DR	2022
6160	281A3085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6161	272B5050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MISTY PLATEAU TRL	2023
6162	264B6025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ST. CROIX DR	2022
6163	263B5065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6164	290A3070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6165	279B8110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6166	280B8085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6167	282A4055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6168	290B7080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6169	282A4045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6170	262B8025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6171	190A1015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6172	190A1010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6173	190A2045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6174	189A2035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6175	189A2090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6176	189A3030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6177	189A3010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6178	188B7045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6179	188B7145	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6180	200A2090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	TORREY PINES CT	2022
6181	211B6080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6182	211B8050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6183	211B8075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6184	211A3010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6185	211A3015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6186	253B8095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6187	253B8050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6188	253B8055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6189	253B6075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6190	253B6080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6191	253B8100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6192	253B8115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6193	261B7035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6194	261B7015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6195	261B7020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6196	262B5065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6197	262B5070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6198	263A1155	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6199	263A1150	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6200	263A1125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6201	263A3045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6202	263A3050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6203	263A3130	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6204	263B7065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6205	264A2030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6206	264B6060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6207	264B6090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6208	264B6105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ST. CROIX DR	2022
6209	179A1010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6210	189A1075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6211	179A1025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6212	178B6010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6213	178B8010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6214	178B7100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6215	178B7095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6216	272B5095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MISTY PLATEAU TRL	2023
6217	272A3020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6218	271B7060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6219	271B7045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6220	271B7015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6221	280B6010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6222	282A1005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6223	282A3070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	FAIRWOOD FOREST DR	2020
6224	179A1055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6225	179A1110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
6226	263A4100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	LEE RD	2023
6227	264B8120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6228	272A3010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	STAG RUN BLVD	2023
6229	272A3070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WIND GAP PL	2023
6230	263A4095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	STAG RUN BLVD	2023
6231	272A3030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	FARRIER TRL	2023
6232	263A4105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	STAG RUN BLVD	2023
6233	272A3005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	FARRIER TRL	2023
6234	272A3040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	FARRIER TRL	2023
6235	272A3045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	STAG RUN BLVD	2023
6236	272A3085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WIND GAP PL	2023
6237	272A3025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6238	263A1083	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6239	255B7105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6240	MH85	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6241	MH102	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6242	MH103	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6243	MH123	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6244	MH124	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6245	MH126	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6246	MH160	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6247	MH176	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6248	178A2040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6249	211B6060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	LONG VIEW DR	2022
6250	178A1075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6251	178A4095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6252	189A4035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HYDE PARK DR	2022
6253	190A2030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6254	244B6015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6255	188B7030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6256	178B6055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MASTERS DR	2022
6257	273A4025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	BEACHWOOD AVE	2020
6258	233A2030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6259	271A4040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6260	273B5035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6261	280B8075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6262	233B8005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6263	233B5010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6264	189B8015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6265	189B6020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HYDE PARK DR	2022
6266	190A1070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6267	256A2010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6268	233B8030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6269	222B8135	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6270	265A1025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6271	263A4050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6272	273A3050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6273	178B6060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	FAIR GREEN DR	2022
6274	273A3045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6275	211A3060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WEATHERSFIELD CT	2022
6276	189B8070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6277	233B8020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6278	189B7020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6279	255A3115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6280	234A1075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6281	200A4055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	BURNING TREE LN	2022
6282	244B6025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6283	252B8030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6284	256A2015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6285	244A4005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6286	233A2025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6287	255A3055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6288	179A1130	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6289	178A4105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6290	264A4045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	GROVE DR	2022
6291	263B5020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6292	263B5025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6293	263B6045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6294	223A1035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6295	222B5040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6296	211B6055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	LONG VIEW DR	2022
6297	190A2035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6298	263B5055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6299	200A4045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6300	211A3045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WEATHERSFIELD CT	2022

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
6301	256A2065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6302	261B7040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6303	261B7045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6304	264B6185	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	LORI DR	2022
6305	280B8080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6306	211A4025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	QUAIL HOLLOW RD W	2022
6307	211A4005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	TIMBERLINE CT	2022
6308	179A1045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6309	233B5030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6310	273B6060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	GRANTWOOD AVE	2020
6311	273B8050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MELONWOOD AVE	2020
6312	273B6115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	LEMONWOOD ST	2020
6313	222B6095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6314	222B7095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6315	232A2055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6316	189B5025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HYDE PARK DR	2022
6317	232A1135	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6318	178A4005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6319	179A2070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6320	244B8085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6321	263A3100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6322	264B8090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	LEONARD DR	2022
6323	244B8050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6324	188B7010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6325	188B7020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6326	232A2015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6327	232A4005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6328	200A2020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CLUBHOUSE DR W	2022
6329	211B6020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CEDAR RUN CT	2022
6330	232A4030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6331	211A3055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	SEA PINES CIR W	2022
6332	211A3065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WEATHERSFIELD CT	2022
6333	211A1015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CLUBHOUSE DR S	2022
6334	211B6010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	FOREST VIEW DR	2022
6335	244B6035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6336	222B8045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6337	263A1025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6338	252B8090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6339	264B8035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	SUE DR	2022
6340	233B7095	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6341	234A1105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6342	178A4090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6343	263B6005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6344	263A4065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WETHERINGTON RD	2023
6345	188B7040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6346	234A2100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6347	178B8025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6348	178B7125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6349	178B7115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6350	244A4507	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6351	245A1125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6352	234A2085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6353	189A3080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6354	222A3075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	PEACHTREE CIR E	2022
6355	211B5015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	QUAIL HOLLOW RD W	2022
6356	222B5010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6357	222B7010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6358	244A4030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6359	232A4050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6360	253A4010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6361	178A1080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6362	222B7105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6363	234A1115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6364	232A2070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6365	264B8085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6366	211B5025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	QUAIL HOLLOW RD W	2022
6367	253A4015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6368	264B6170	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6369	263A1060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6370	272B5100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	RIDGE TOP WAY	2023
6371	263A1055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6372	273B8070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MELONWOOD AVE	2020
6373	265A1045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6374	253B8075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6375	264A2065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
6376	232A4115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6377	232A2020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6378	211A3105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	FOREST VIEW DR	2022
6379	211B7020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6380	252B8040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6381	190A1120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6382	232A2120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6383	200A2085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CLUBHOUSE DR W	2022
6384	222B8100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6385	232A2005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6386	290A3085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6387	222B8040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6388	244B8065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6389	211A1010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CLUBHOUSE DR S	2022
6390	211B7070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6391	189B5065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HYDE PARK DR	2022
6392	189B5045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MASTERS DR	2022
6393	178A4110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6394	223A1090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6395	232A2050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6396	232A2030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6397	253A4085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6398	189A4045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	MASTERS DR	2022
6399	178A1085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6400	222B8120	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6401	178B6100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ALLAPATTAH DR	2022
6402	189A3075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6403	263A1010	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6404	264A2055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6405	281A1025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6406	273B5050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6407	273A4045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CANDLEWOOD ST	2020
6408	263A3085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	PRINCETON DR	2020
6409	256A2125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6410	279B8040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6411	279B8085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6412	244B8020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6413	232A4110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6414	189B5055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	INVERRARY LN	2022
6415	200B6050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6416	178B6125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	ALLAPATTAH DR	2022
6417	244B8080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6418	233B7045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6419	189B7045	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6420	179A2080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6421	222B5100	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6422	232A2040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6423	222B7115	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6424	222A3035	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	PEACHTREE CIR	2022
6425	232A2125	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6426	272B5005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	EL TAIR TRL	2023
6427	263A1105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6428	263A2070	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	W MANOR AVE	2023
6429	281A1015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6430	264B7005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6431	264B8065	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CATHERINE DR	2022
6432	264A3170	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6433	263B6080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	STAG RUN BLVD	2023
6434	262B8020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6435	263A1130	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6436	178B8005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6437	272B5075	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	FLINT LOCK DR	2023
6438	211A3005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	WESTCHESTER DR N	2022
6439	234A2105	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6440	232A4055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6441	281A1040	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6442	232A2025	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6443	253A4055	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6444	222B7015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6445	232A4085	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6446	190A2015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6447	272B5080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	RIDGE TOP WAY	2023
6448	265A1020	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6449	211B7090	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6450	253A4050	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
6451	200A2015	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	CLUBHOUSE DR W	2022
6452	273A4030	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	EDENWOOD ST	2020
6453	272A5005	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6454	244A2080	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6455	273B6110	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation	HOLLYWOOD AVE	2020
6456	244A2060	Northeast WRF	3	2	3 x 2	Frequent Condition Evaluation		
6457	233A3030	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6458	281A2060	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6459	290B5025	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6460	255A4030	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6461	281B8100	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6462	281B8110	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6463	273A2070	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6464	271B7105	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6465	281A2065	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6466	255A4020	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6467	281B8125	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6468	281A2055	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6469	290B7040	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6470	273A4015	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6471	271B7100	Northeast WRF	2	4	2 x 4	Frequent Condition Evaluation		
6472	270A4035	Marshall Street WRF	3	1	3 x 1	Regular Monitoring	LONG ST	2018
6473	296B6010	Marshall Street WRF	3	1	3 x 1	Regular Monitoring		
6474	252B7065	Marshall Street WRF	3	1	3 x 1	Regular Monitoring		
6475	252B7085	Marshall Street WRF	3	1	3 x 1	Regular Monitoring		
6476	242B7080	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6477	242A1015	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6478	242B7105	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6479	242B7085	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6480	267A3045	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6481	252A4070	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	N HIGHLAND AVE	2019
6482	269B6165	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6483	260B5060	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6484	260B5030	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6485	260B5025	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6486	319B5015	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6487	314A4125	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6488	314A1015	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6489	279A1055	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6490	287B7040	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6491	242B7075	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6492	242B7025	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6493	287A2145	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6494	251B5000	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	PORT WAY	2023
6495	242B7020	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6496	314B5025	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6497	314A4135	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6498	287B7065	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6499	314A4090	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6500	242B7070	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6501	242A2065	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6502	249A4010	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	NARCISSUS AVE	2021
6503	242B7060	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6504	278B7070	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6505	270A4105	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	FLAGLER DR	2018
6506	270A4010	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	FLAGLER DR	2018
6507	270A4005	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	FLAGLER DR	2018
6508	269A3185	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6509	258A1030	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6510	288A3060	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	LAURA ST	2020
6511	278A2165	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	VINE AVE	2018
6512	286B5065	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	N OSCEOLA AVE	2021
6513	296A4135	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6514	314A4095	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6515	314A4130	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6516	313B8035	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6517	319B5010	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6518	287B5015	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	N LINCOLN AVE	2018
6519	287B5140	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6520	242B7065	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6521	242A2050	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6522	242B7030	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6523	258A1025	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6524	260B5020	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6525	269B5070	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
6526	260B5055	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6527	296A4105	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6528	287A2150	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6529	305B7015	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6530	306A4140	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6531	287B7085	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	N EVERGREEN AVE	2020
6532	313B8030	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6533	287B5020	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	N LINCOLN AVE	2021
6534	287B6065	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6535	268B5014	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	N OSCEOLA AVE	2021
6536	286B5013	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	N OSCEOLA AVE	2021
6537	287A2200	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6538	287A3140	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6539	287A2195	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6540	287A2175	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	PARK ST	2021
6541	287A3135	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6542	260A3090	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6543	267B6085	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6544	260B5035	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6545	260B5085	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6546	260B5090	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6547	297A1035	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6548	279A3040	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6549	305A3055	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6550	276A2140	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6551	276A2155	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6552	276A2125	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6553	276A2105	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6554	260A3080	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6555	313B8025	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6556	286B7150	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6557	296A4175	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6558	296A1095	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6559	260A2155	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	APACHE TRL	2022
6560	242B7110	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6561	253A3140	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6562	314A1050	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6563	303B5015	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6564	269B8015	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6565	260B5053	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6566	MH15	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6567	MH49	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6568	MH98	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6569	MH116	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6570	MH129	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6571	MH170	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6572	MH174	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6573	MH175	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6574	242B7010	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6575	288A3085	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	CLEVELAND ST	2020
6576	296A4195	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6577	251B5095	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6578	296A1010	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6579	269B6040	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6580	296A1005	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6581	269B8010	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6582	269B6140	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6583	306A4070	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6584	296B5010	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6585	306A4030	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6586	306A4025	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6587	295B7010	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6588	314A1005	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6589	238A3025	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	BAY ESPLANADE	2021
6590	269A3130	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6591	296A4155	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6592	287A2140	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6593	296A1025	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6594	286B6150	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6595	319B5030	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6596	314A4015	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6597	319B5025	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6598	242B7015	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6599	268B8110	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6600	267A3005	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	MANDALAY AVE	2021

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
6601	296A4110	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6602	306A4040	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6603	314B5060	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6604	286B5015	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	N OSCEOLA AVE	2021
6605	286B7060	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	HENDRICKS ST	2021
6606	253A3075	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6607	253A3105	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6608	269B8017	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6609	305A3060	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6610	260B5018	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6611	251B5160	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6612	242B7090	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6613	269A3115	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6614	269B6100	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6615	242A4075	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6616	295B5100	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	HAMILTON CRES	2020
6617	249A4055	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	NARCISSUS AVE	2021
6618	270A4015	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6619	306A4065	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6620	287B7055	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6621	269A3120	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6622	295B8095	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6623	306A3035	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6624	306A1050	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6625	249A3065	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	BAY ESPLANADE	2021
6626	314A4105	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6627	258B8020	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6628	278B5090	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6629	278A4080	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	JONES ST	2018
6630	306A3005	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6631	285B5060	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6632	296A4165	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6633	270A4110	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	FLAGLER DR	2018
6634	253A1060	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	DAWN DR	2019
6635	242B7115	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6636	267A2341	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6637	261A4290	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6638	261A4285	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6639	269B8005	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6640	278A2025	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	VINE AVE	2018
6641	314A2080	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6642	269B8090	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6643	253B5010	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6644	288A4015	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6645	314A2075	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6646	279A3070	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6647	296A4180	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6648	296A3070	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6649	253A1050	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	DAWN DR	2019
6650	251A2080	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6651	269B5020	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6652	279A3035	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6653	313B8100	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6654	287A1030	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	GROVE ST	2021
6655	238A3040	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	BAY ESPLANADE	2021
6656	313B7045	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6657	314A4030	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6658	269B5080	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6659	296A3115	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6660	276A1305	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6661	251B5075	Marshall Street WRF	2	3	2 x 3	Regular Monitoring		
6662	288A3045	Marshall Street WRF	2	3	2 x 3	Regular Monitoring	GROVE ST	2020
6663	242B7100	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6664	249B8005	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6665	238A3050	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	BAY ESPLANADE	2021
6666	249B6015	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6667	249A1025	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6668	238A4090	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	LAUREL ST	2021
6669	249A3005	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	BAY ESPLANADE	2021
6670	249B8015	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6671	267B7005	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6672	270A4120	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6673	277B7035	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6674	258B8025	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6675	258B5055	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
6676	279A4005	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6677	288A1145	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	PARK ST	2020
6678	258B8015	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6679	270B6045	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	MACRAE AVE	2018
6680	268A1015	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6681	279A2045	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	JACARANDA CIR N	2020
6682	287A4080	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6683	285B5050	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6684	238A4070	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	LANTANA AVE	2021
6685	279A2085	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	MARIVA AVE	2020
6686	288A4025	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6687	295B6060	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6688	249A4120	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	BAY ESPLANADE	2021
6689	249A4140	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	BAY ESPLANADE	2021
6690	279A2080	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6691	288A1055	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	LAURA ST	2020
6692	279B6090	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6693	279A2110	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	MARIVA AVE	2020
6694	279B5090	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6695	314A3080	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6696	287B6175	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6697	296B8125	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	CHESTER DR	2018
6698	287B5120	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6699	306B7030	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6700	287B6085	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6701	314A3195	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6702	258B5045	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6703	296A3095	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6704	288A2070	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6705	249B6010	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6706	306B5015	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6707	314A4115	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6708	305B8070	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6709	314A2100	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6710	242B7095	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6711	251A1080	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	GRANADA ST	2023
6712	261A4145	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6713	258B8035	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6714	249B6025	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6715	296B8035	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	CHESTER DR	2018
6716	238A4125	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	BRUCE AVE	2021
6717	278B6045	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	JACKSON RD	2018
6718	296B8065	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	CHESTER DR	2018
6719	288B5060	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	LAURA ST	2020
6720	296B6060	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6721	279B6025	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6722	279A2095	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	JACARANDA CIR S	2020
6723	314A2015	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6724	314A3110	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6725	287A1010	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6726	313B7070	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6727	314A2065	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6728	314A2045	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6729	252B5165	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6730	238A4060	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	NARCISSUS AVE	2021
6731	252A3015	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6732	252B5160	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6733	251B6090	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6734	249B8010	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6735	258B7005	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6736	267B7025	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6737	269B7070	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6738	258B7035	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6739	270A3090	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	WOOD AVE	2018
6740	278B5030	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6741	269B7075	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6742	259B8040	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	PLEASANT ST	2022
6743	258A3015	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	BAY ESPLANADE	2021
6744	267A4030	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6745	258B5035	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6746	258B8010	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6747	258B8030	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6748	288A2080	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6749	296A4185	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6750	288A4020	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
6751	279B6070	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6752	279A2090	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	JACARANDA CIR S	2020
6753	287A4015	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6754	296B8090	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	CHESTER DR	2018
6755	296A3030	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6756	287A3065	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	GROVE ST	2021
6757	288B5065	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	LAURA ST	2020
6758	296B6055	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6759	306A1045	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6760	314A3030	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6761	306A4145	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6762	313B7095	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6763	251B6065	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6764	252A3055	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6765	251A1005	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6766	249A4115	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	BAY ESPLANADE	2021
6767	251A1085	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	GRANADA ST	2023
6768	252A3050	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6769	238A4015	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	CARLOUEL DR	2021
6770	267A4015	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6771	258B8005	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6772	258B7010	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6773	269A3160	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6774	279A2050	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	JACARANDA CIR N	2020
6775	268A1005	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6776	268A1030	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6777	278B5025	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6778	267A1005	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6779	279A2105	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6780	295B6020	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6781	306A1020	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6782	279A2065	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	FOREST RD	2020
6783	279A2075	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	MARIVA AVE	2020
6784	306A3010	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6785	314A2055	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6786	314A2050	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6787	287B6115	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6788	306A4080	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6789	314A1025	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6790	305B8055	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6791	314A3140	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6792	314A3100	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6793	270A4115	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6794	253A1025	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6795	253A1035	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6796	253A1040	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	SETON DR	2019
6797	253A1080	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	SETON DR	2019
6798	252B6090	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6799	252B6095	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6800	251A1055	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6801	260A2120	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	MOHAWK ST	2022
6802	260A2110	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6803	260A2105	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6804	287B7080	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6805	268A1010	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6806	278B6085	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	N LINCOLN AVE	2018
6807	295B6075	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6808	296B7385	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	S EVERGREEN AVE	2018
6809	287A4105	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	GROVE ST	2021
6810	276A2080	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6811	295B5070	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	ORANGE AVE	2020
6812	253B5090	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6813	269A1180	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6814	269A4020	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6815	242B5195	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6816	269A2170	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6817	295B5099	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	HAMILTON CRES	2020
6818	314A4155	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6819	267A2342	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6820	251A7065	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6821	261A4295	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6822	261A4292	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6823	261A4280	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6824	MH34	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6825	MH46	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
6826	MH47	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6827	MH96	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6828	MH97	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6829	MH99	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6830	MH100	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6831	MH113	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6832	288A2015	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	S SAN REMO AVE	2020
6833	314A1030	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6834	314A3105	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6835	314A1035	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6836	258A3010	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	BAY ESPLANADE	2021
6837	313B7040	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6838	252B5150	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6839	249B7005	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6840	251B6095	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6841	268B7080	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6842	261A4135	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6843	279A3080	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6844	260A2070	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	APACHE TRL	2022
6845	261A2065	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6846	288A1120	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	PARK ST	2020
6847	260A2145	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	APACHE TRL	2022
6848	279B6060	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6849	288A2055	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	S SAN REMO AVE	2020
6850	314A2060	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6851	314A4040	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6852	238A4005	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	BRUCE AVE	2021
6853	314A2030	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6854	249A4070	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	MANDALAY AVE	2021
6855	288A3040	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	GROVE ST	2020
6856	287B5095	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6857	249A4020	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	LANTANA AVE	2021
6858	268A2010	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6859	261B6040	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6860	296B8060	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	S EVERGREEN AVE	2018
6861	288A2030	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6862	287A3075	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	NE CLEVELAND ST	2021
6863	296B8115	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	MARK DR	2018
6864	288A3080	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	LAURA ST	2020
6865	296B6065	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6866	306A4125	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6867	314A2005	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6868	306B7035	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6869	251B6070	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6870	269B8020	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6871	267B7010	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6872	279B6045	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6873	288A1060	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	LAURA ST	2020
6874	288A1080	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6875	314A2035	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6876	305B8065	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6877	252B6075	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6878	252B6020	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6879	252A1020	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6880	251A4075	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6881	238A4140	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	BRUCE AVE	2021
6882	306A1030	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6883	287A4110	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6884	276A2050	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6885	253B5070	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6886	287A5005	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6887	269A2175	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6888	261A1047	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6889	295B7140	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6890	267A3070	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6891	MH33	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6892	238A4095	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	LAUREL ST	2021
6893	269B7065	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6894	252B5075	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6895	252B5090	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6896	261A2070	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6897	295B6070	Marshall Street WRF	2	2	2 x 2	Regular Monitoring		
6898	270A4025	Marshall Street WRF	2	2	2 x 2	Regular Monitoring	WOOD AVE	2018
6899	287B6190	Marshall Street WRF	1	5	1 x 5	Regular Monitoring		
6900	251B8115	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
6901	251B8095	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		
6902	251B8120	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		
6903	251B6055	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		
6904	251B6160	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		
6905	251B8085	Marshall Street WRF	1	4	1 x 4	Regular Monitoring	KINGS HWY	2019
6906	251B6060	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		
6907	260B7020	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		
6908	251B8125	Marshall Street WRF	1	4	1 x 4	Regular Monitoring	KINGS HWY	2019
6909	278B7065	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		
6910	260A3075	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		
6911	296B5161	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		
6912	251B8070	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		
6913	251B8065	Marshall Street WRF	1	4	1 x 4	Regular Monitoring	KINGS HWY	2019
6914	251B6085	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		
6915	251B8100	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		
6916	251B9990	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		
6917	251B6040	Marshall Street WRF	1	4	1 x 4	Regular Monitoring		
6918	251B7025	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6919	242B7005	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6920	251B7115	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6921	277B8105	Marshall Street WRF	1	3	1 x 3	Regular Monitoring	JONES ST	2018
6922	258A4030	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6923	269B8095	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6924	251B6105	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6925	270A4075	Marshall Street WRF	1	3	1 x 3	Regular Monitoring	CLARK ST	2018
6926	251B8075	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6927	296A1030	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6928	313B7050	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6929	258A3085	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6930	287B8005	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6931	251B7015	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6932	251B6140	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6933	251B6035	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6934	251B7045	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6935	296A3015	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6936	295B7020	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6937	296A3020	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6938	278B8045	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6939	287B8020	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6940	305B7025	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6941	267A2021	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6942	251B7210	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6943	251B7150	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6944	252A3090	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6945	251B7010	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6946	251B7102	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6947	251B7140	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6948	251B6110	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6949	251B7165	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6950	251B6030	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6951	251B7020	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6952	258A4010	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6953	259B7050	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6954	286B8135	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6955	278B8040	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6956	296B5075	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6957	314A4025	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6958	314B5065	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6959	313B7090	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6960	251B7190	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6961	251B6145	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6962	251B7118	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6963	251B7100	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6964	251B6115	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6965	227A4005	Marshall Street WRF	1	3	1 x 3	Regular Monitoring	ELDORADO AVE	2021
6966	251B6135	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6967	251B7120	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6968	278B8005	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6969	269B6120	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6970	261A2030	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6971	269B6070	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6972	261A2055	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6973	296B5070	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6974	287A3080	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6975	287B8070	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
6976	314A2085	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6977	287B8075	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6978	251B9880	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6979	260A3025	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6980	252A3085	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6981	296B5155	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6982	306A3110	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6983	305A3065	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6984	305A3070	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6985	276A2130	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6986	305A3020	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6987	276A4055	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6988	276A4060	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6989	276A2045	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6990	260B7030	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6991	253A3135	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6992	253A3145	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6993	295B8085	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6994	252A2032	Marshall Street WRF	1	3	1 x 3	Regular Monitoring	BARBARA AVE	2019
6995	252A2008	Marshall Street WRF	1	3	1 x 3	Regular Monitoring	BYRAM DR	2019
6996	276A4100	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6997	287A5080	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6998	287B7185	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
6999	286B1250	Marshall Street WRF	1	3	1 x 3	Regular Monitoring	PIERCE ST	2021
7000	269A3305	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7001	269A3300	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7002	295B8165	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7003	260B5017	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7004	279A4210	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7005	279A4230	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7006	279A4225	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7007	279A4235	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7008	279A4240	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7009	279A3110	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7010	279A3115	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7011	279A3120	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7012	279A3125	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7013	279A3145	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7014	279A3150	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7015	279A3155	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7016	270A4200	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7017	270A4205	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7018	251B6150	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7019	251B6155	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7020	267A2070	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7021	MH6	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7022	MH8	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7023	MH62	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7024	MH64	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7025	MH66	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7026	MH68	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7027	MH70	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7028	MH71	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7029	MH72	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7030	MH73	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7031	MH74	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7032	MH75	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7033	MH76	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7034	MH77	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7035	MH161	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7036	251B7112	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7037	251B6080	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7038	251B7040	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7039	267A4045	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7040	276A5000	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7041	251B7090	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7042	287A1100	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7043	269B7155	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7044	270A1020	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7045	270B7025	Marshall Street WRF	1	3	1 x 3	Regular Monitoring	E LEO LN	2018
7046	251B5090	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7047	296A3120	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7048	296B7040	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7049	288A1030	Marshall Street WRF	1	3	1 x 3	Regular Monitoring	N SAN REMO AVE	2020
7050	261A3005	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
7051	279A4010	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7052	269B5025	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7053	277B7144	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7054	269B7150	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7055	251B7890	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7056	295A4025	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7057	269A4080	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7058	295B1030	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7059	276A1120	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7060	276A1200	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7061	276A5010	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7062	276A5020	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7063	279A4205	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7064	279A4220	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7065	279A4215	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7066	279A3130	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7067	279A3140	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7068	251B5155	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7069	251B6130	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7070	251B7050	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7071	251B7060	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7072	251B6075	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7073	253B5065	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7074	287A5000	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7075	276A2170	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7076	276A3100	Marshall Street WRF	1	3	1 x 3	Regular Monitoring		
7077	252B5035	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7078	252A1040	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7079	251B5065	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7080	252B6015	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7081	252B5070	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7082	251B5025	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7083	251B6020	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7084	253A2010	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7085	251B5020	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7086	251B5110	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7087	251B5060	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7088	252B5030	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7089	249A4135	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	MANDALAY AVE	2021
7090	261B6025	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7091	251B7070	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7092	258B8055	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7093	261B5095	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7094	251B6125	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7095	269B7080	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7096	296B5180	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7097	261A2060	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7098	260B8025	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7099	278B6090	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	N JEFFERSON AVE	2018
7100	269B7090	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7101	258A3070	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7102	278A1105	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7103	249A2025	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	ELDORADO AVE	2021
7104	251B5045	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7105	269B7045	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7106	270A1070	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7107	251B5010	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7108	249A4100	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	MANDALAY AVE	2021
7109	269B7085	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7110	269B7010	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7111	261B6015	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7112	270A1065	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7113	261A4180	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7114	287A2095	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7115	297A1105	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7116	296A3075	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7117	297A1100	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7118	314A3150	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7119	278B5045	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7120	314A4045	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7121	322A1045	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7122	287B5130	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7123	270B7045	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	E LEO LN	2018
7124	261B6020	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7125	287B6110	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
7126	251B5135	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7127	251B5125	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7128	287B5125	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7129	251B5085	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7130	252B5130	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7131	251B5120	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7132	261A3070	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7133	251B5015	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7134	252B6010	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7135	251B5070	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7136	251B7035	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7137	251B5080	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7138	296B5165	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7139	295B8035	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7140	276A2010	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7141	288A2095	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7142	314A2010	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7143	314A2095	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7144	306B5050	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7145	306A4100	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7146	251B6015	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7147	251B5040	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7148	251B5055	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7149	238A4100	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	BAY ESPLANADE	2021
7150	251B7030	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7151	252B5120	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7152	251B6045	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7153	251B5130	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7154	269B7005	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7155	261B6035	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7156	261B6030	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7157	251B6120	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7158	261A4160	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7159	268B7065	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7160	269B7105	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7161	269A3030	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7162	296B5020	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7163	296B7045	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7164	296B8030	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	S EVERGREEN AVE	2018
7165	287A4050	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7166	288A1070	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	LAURA ST	2020
7167	288A1065	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	LAURA ST	2020
7168	287B6005	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7169	287B6070	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7170	314A3125	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7171	314A2070	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7172	314A4010	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7173	251B5035	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7174	251B6025	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7175	238A4145	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7176	251B7180	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7177	251B6050	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7178	252B5135	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7179	252B5095	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7180	251B6100	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7181	253A2025	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7182	251B5115	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7183	252B5115	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7184	251B5105	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7185	251B5100	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7186	251B7104	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7187	251B5030	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7188	251B5050	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7189	249A4110	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	IRIS ST	2021
7190	249A1010	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	ELDORADO AVE	2021
7191	261A3100	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7192	278A1110	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7193	269B5085	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7194	260B6005	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7195	278A1035	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7196	269B7050	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7197	269A3045	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7198	276B7005	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7199	270B5110	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7200	270B7060	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	S LEO LN	2018

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
7201	278A4100	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7202	287B5100	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7203	287B6120	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7204	305B8060	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7205	287B6075	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7206	314A2040	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7207	306A3070	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7208	252A1015	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7209	251A1115	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7210	261A2045	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7211	261A2040	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7212	261A2050	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7213	261B8040	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7214	252A2135	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7215	270B5101	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7216	251B3395	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7217	251B9965	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7218	251B5365	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7219	267B8095	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7220	306A1040	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7221	251A4065	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7222	251A4060	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7223	269B7030	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7224	268B8115	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7225	277B7085	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7226	277B6005	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	N OSCEOLA AVE	2018
7227	277B6015	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	N OSCEOLA AVE	2018
7228	278A1025	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7229	314A3035	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7230	295A4015	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7231	295A4035	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7232	276A1080	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7233	276A1060	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7234	276A1065	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7235	253B5085	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7236	269A2050	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7237	277B6025	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7238	269A2165	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7239	295B1010	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7240	295B1015	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7241	295B1020	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7242	295B1025	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7243	295B1035	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7244	314A4145	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7245	286B1220	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	S GARDEN AVE	2021
7246	286B1225	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	S GARDEN AVE	2021
7247	276A1105	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7248	276A1110	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7249	276A1125	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7250	276A5015	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7251	276A1215	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7252	277B1025	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	N OSCEOLA AVE	2018
7253	277B1030	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	N OSCEOLA AVE	2018
7254	277A1035	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7255	277B1065	Marshall Street WRF	1	2	1 x 2	Regular Monitoring	N OSCEOLA AVE	2018
7256	313B8105	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7257	269B5082	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7258	260B5043	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7259	279A3135	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7260	251B5145	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7261	251B5150	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7262	251B5140	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7263	267A3075	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7264	295B6065	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7265	295B6110	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7266	252B6140	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7267	252B6145	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7268	252B6150	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7269	MH21	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7270	MH22	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7271	MH31	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7272	MH32	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7273	MH40	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7274	MH41	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7275	MH42	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
7276	MH43	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7277	252B7100	Marshall Street WRF	1	2	1 x 2	Regular Monitoring		
7278	270A4030	Marshall Street WRF	1	1	1 x 1	Regular Monitoring		
7279	270A4085	Marshall Street WRF	1	1	1 x 1	Regular Monitoring	CLARK ST	2018
7280	252B7105	Marshall Street WRF	1	1	1 x 1	Regular Monitoring		
7281	274B8110	East WRF	3	1	3 x 1	Regular Monitoring	MAXIMO AVE	2019
7282	299A2005	East WRF	3	1	3 x 1	Regular Monitoring		
7283	274B8120	East WRF	3	1	3 x 1	Regular Monitoring	SAN CARLOS ST	2019
7284	274B8095	East WRF	3	1	3 x 1	Regular Monitoring	SAN GABRIEL ST	2019
7285	298B8085	East WRF	3	1	3 x 1	Regular Monitoring		
7286	298B8075	East WRF	3	1	3 x 1	Regular Monitoring		
7287	298B8115	East WRF	3	1	3 x 1	Regular Monitoring		
7288	298B8090	East WRF	3	1	3 x 1	Regular Monitoring		
7289	283A3030	East WRF	3	1	3 x 1	Regular Monitoring	SAN PEDRO ST	2019
7290	299A2065	East WRF	3	1	3 x 1	Regular Monitoring		
7291	299A2040	East WRF	3	1	3 x 1	Regular Monitoring		
7292	292B8005	East WRF	2	3	2 x 3	Regular Monitoring		
7293	299A1110	East WRF	2	3	2 x 3	Regular Monitoring		
7294	291A2015	East WRF	2	3	2 x 3	Regular Monitoring		
7295	291A2085	East WRF	2	3	2 x 3	Regular Monitoring		
7296	290A2120	East WRF	2	3	2 x 3	Regular Monitoring		
7297	299A1105	East WRF	2	3	2 x 3	Regular Monitoring		
7298	299B6055	East WRF	2	3	2 x 3	Regular Monitoring		
7299	309B7060	East WRF	2	3	2 x 3	Regular Monitoring		
7300	308A3080	East WRF	2	3	2 x 3	Regular Monitoring		
7301	316B7035	East WRF	2	3	2 x 3	Regular Monitoring		
7302	299B8055	East WRF	2	3	2 x 3	Regular Monitoring		
7303	308A1010	East WRF	2	3	2 x 3	Regular Monitoring		
7304	306B6005	East WRF	2	3	2 x 3	Regular Monitoring		
7305	292A2020	East WRF	2	3	2 x 3	Regular Monitoring		
7306	308B5145	East WRF	2	3	2 x 3	Regular Monitoring		
7307	316B7010	East WRF	2	3	2 x 3	Regular Monitoring		
7308	291A2016	East WRF	2	3	2 x 3	Regular Monitoring		
7309	308A1055	East WRF	2	3	2 x 3	Regular Monitoring		
7310	308A1015	East WRF	2	3	2 x 3	Regular Monitoring		
7311	306B8010	East WRF	2	3	2 x 3	Regular Monitoring		
7312	292A1070	East WRF	2	3	2 x 3	Regular Monitoring		
7313	280A2080	East WRF	2	3	2 x 3	Regular Monitoring		
7314	309B7015	East WRF	2	3	2 x 3	Regular Monitoring		
7315	299B5065	East WRF	2	3	2 x 3	Regular Monitoring		
7316	292A3140	East WRF	2	3	2 x 3	Regular Monitoring	BAYSHORE BLVD	2019
7317	298A4135	East WRF	2	3	2 x 3	Regular Monitoring		
7318	291A2050	East WRF	2	3	2 x 3	Regular Monitoring		
7319	291A2040	East WRF	2	3	2 x 3	Regular Monitoring		
7320	316B7050	East WRF	2	3	2 x 3	Regular Monitoring		
7321	292B8010	East WRF	2	3	2 x 3	Regular Monitoring		
7322	290A2115	East WRF	2	3	2 x 3	Regular Monitoring		
7323	299A1080	East WRF	2	3	2 x 3	Regular Monitoring		
7324	298A1125	East WRF	2	3	2 x 3	Regular Monitoring	BROOKSIDE DR	2021
7325	309B7040	East WRF	2	3	2 x 3	Regular Monitoring		
7326	299B8090	East WRF	2	3	2 x 3	Regular Monitoring		
7327	299B8095	East WRF	2	3	2 x 3	Regular Monitoring		
7328	317A2016	East WRF	2	3	2 x 3	Regular Monitoring		
7329	317A4095	East WRF	2	3	2 x 3	Regular Monitoring		
7330	MH192	East WRF	2	3	2 x 3	Regular Monitoring		
7331	298A1080	East WRF	2	3	2 x 3	Regular Monitoring	S ARCTURAS AVE	2021
7332	297A4040	East WRF	2	3	2 x 3	Regular Monitoring	SKYVIEW AVE	2021
7333	299B6035	East WRF	2	3	2 x 3	Regular Monitoring		
7334	292B8020	East WRF	2	3	2 x 3	Regular Monitoring		
7335	291B8100	East WRF	2	3	2 x 3	Regular Monitoring		
7336	308A1020	East WRF	2	3	2 x 3	Regular Monitoring		
7337	298A1100	East WRF	2	3	2 x 3	Regular Monitoring	BROOKSIDE DR	2021
7338	291A4090	East WRF	2	3	2 x 3	Regular Monitoring		
7339	298A1085	East WRF	2	3	2 x 3	Regular Monitoring	BROOKSIDE DR	2021
7340	316B7055	East WRF	2	3	2 x 3	Regular Monitoring		
7341	307A1030	East WRF	2	3	2 x 3	Regular Monitoring		
7342	308A3070	East WRF	2	3	2 x 3	Regular Monitoring		
7343	290B8085	East WRF	2	3	2 x 3	Regular Monitoring		
7344	308A3010	East WRF	2	3	2 x 3	Regular Monitoring		
7345	290B8030	East WRF	2	3	2 x 3	Regular Monitoring		
7346	292A2035	East WRF	2	3	2 x 3	Regular Monitoring		
7347	297B7015	East WRF	2	3	2 x 3	Regular Monitoring		
7348	315B5015	East WRF	2	3	2 x 3	Regular Monitoring		
7349	307A1190	East WRF	2	3	2 x 3	Regular Monitoring		
7350	297B7060	East WRF	2	3	2 x 3	Regular Monitoring		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
7351	306B7015	East WRF	2	3	2 x 3	Regular Monitoring		
7352	306B8205	East WRF	2	3	2 x 3	Regular Monitoring		
7353	299B8135	East WRF	2	3	2 x 3	Regular Monitoring		
7354	MH38	East WRF	2	3	2 x 3	Regular Monitoring		
7355	297A3215	East WRF	2	3	2 x 3	Regular Monitoring	SKYVIEW AVE	2021
7356	300B7070	East WRF	2	3	2 x 3	Regular Monitoring		
7357	308A3050	East WRF	2	3	2 x 3	Regular Monitoring		
7358	316B7015	East WRF	2	3	2 x 3	Regular Monitoring		
7359	317A4010	East WRF	2	3	2 x 3	Regular Monitoring		
7360	290A2080	East WRF	2	3	2 x 3	Regular Monitoring		
7361	316B7025	East WRF	2	3	2 x 3	Regular Monitoring		
7362	291B8010	East WRF	2	3	2 x 3	Regular Monitoring		
7363	317B7075	East WRF	2	3	2 x 3	Regular Monitoring		
7364	309B7080	East WRF	2	3	2 x 3	Regular Monitoring		
7365	317B5115	East WRF	2	3	2 x 3	Regular Monitoring		
7366	306B8040	East WRF	2	3	2 x 3	Regular Monitoring		
7367	299B7020	East WRF	2	3	2 x 3	Regular Monitoring		
7368	307B7075	East WRF	2	3	2 x 3	Regular Monitoring		
7369	297A2020	East WRF	2	3	2 x 3	Regular Monitoring		
7370	292B8015	East WRF	2	3	2 x 3	Regular Monitoring		
7371	307A1015	East WRF	2	3	2 x 3	Regular Monitoring		
7372	307B5085	East WRF	2	3	2 x 3	Regular Monitoring		
7373	315A4125	East WRF	2	3	2 x 3	Regular Monitoring		
7374	292A3135	East WRF	2	3	2 x 3	Regular Monitoring		
7375	307A1310	East WRF	2	3	2 x 3	Regular Monitoring		
7376	289A2070	East WRF	2	3	2 x 3	Regular Monitoring		
7377	308A1045	East WRF	2	3	2 x 3	Regular Monitoring		
7378	306B7010	East WRF	2	3	2 x 3	Regular Monitoring		
7379	298A2010	East WRF	2	3	2 x 3	Regular Monitoring		
7380	314B7320	East WRF	2	3	2 x 3	Regular Monitoring		
7381	301A1065	East WRF	2	3	2 x 3	Regular Monitoring		
7382	297B8010	East WRF	2	2	2 x 2	Regular Monitoring		
7383	298A2030	East WRF	2	2	2 x 2	Regular Monitoring		
7384	291B7145	East WRF	2	2	2 x 2	Regular Monitoring		
7385	290A4010	East WRF	2	2	2 x 2	Regular Monitoring		
7386	299A4140	East WRF	2	2	2 x 2	Regular Monitoring		
7387	290A4005	East WRF	2	2	2 x 2	Regular Monitoring		
7388	297A3045	East WRF	2	2	2 x 2	Regular Monitoring	SKYVIEW AVE	2021
7389	297B8015	East WRF	2	2	2 x 2	Regular Monitoring		
7390	298A4085	East WRF	2	2	2 x 2	Regular Monitoring		
7391	292A2055	East WRF	2	2	2 x 2	Regular Monitoring		
7392	299B7015	East WRF	2	2	2 x 2	Regular Monitoring		
7393	300A1020	East WRF	2	2	2 x 2	Regular Monitoring		
7394	315B6050	East WRF	2	2	2 x 2	Regular Monitoring		
7395	306B7080	East WRF	2	2	2 x 2	Regular Monitoring		
7396	307B7060	East WRF	2	2	2 x 2	Regular Monitoring		
7397	306B6085	East WRF	2	2	2 x 2	Regular Monitoring		
7398	307B5070	East WRF	2	2	2 x 2	Regular Monitoring		
7399	315A1025	East WRF	2	2	2 x 2	Regular Monitoring		
7400	292B8025	East WRF	2	2	2 x 2	Regular Monitoring		
7401	288B7010	East WRF	2	2	2 x 2	Regular Monitoring		
7402	298A2035	East WRF	2	2	2 x 2	Regular Monitoring		
7403	318A2055	East WRF	2	2	2 x 2	Regular Monitoring		
7404	290A2050	East WRF	2	2	2 x 2	Regular Monitoring		
7405	314B8020	East WRF	2	2	2 x 2	Regular Monitoring		
7406	314B7075	East WRF	2	2	2 x 2	Regular Monitoring		
7407	307B8015	East WRF	2	2	2 x 2	Regular Monitoring		
7408	306B6105	East WRF	2	2	2 x 2	Regular Monitoring		
7409	316B7080	East WRF	2	2	2 x 2	Regular Monitoring		
7410	317B5110	East WRF	2	2	2 x 2	Regular Monitoring	PREMIER VILLAGE WAY	2019
7411	315B7025	East WRF	2	2	2 x 2	Regular Monitoring		
7412	292A3050	East WRF	2	2	2 x 2	Regular Monitoring		
7413	299A2085	East WRF	2	2	2 x 2	Regular Monitoring		
7414	299A2025	East WRF	2	2	2 x 2	Regular Monitoring		
7415	290A2010	East WRF	2	2	2 x 2	Regular Monitoring		
7416	291B6035	East WRF	2	2	2 x 2	Regular Monitoring		
7417	298A1045	East WRF	2	2	2 x 2	Regular Monitoring	VIRGINIA LN	2021
7418	298B5115	East WRF	2	2	2 x 2	Regular Monitoring		
7419	314B7130	East WRF	2	2	2 x 2	Regular Monitoring		
7420	306B8070	East WRF	2	2	2 x 2	Regular Monitoring		
7421	314B8005	East WRF	2	2	2 x 2	Regular Monitoring		
7422	316B7020	East WRF	2	2	2 x 2	Regular Monitoring		
7423	317B5100	East WRF	2	2	2 x 2	Regular Monitoring	PREMIER VILLAGE WAY	2019
7424	306B6040	East WRF	2	2	2 x 2	Regular Monitoring		
7425	300B7069	East WRF	2	2	2 x 2	Regular Monitoring		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
7426	306B8165	East WRF	2	2	2 x 2	Regular Monitoring		
7427	315A1010	East WRF	2	2	2 x 2	Regular Monitoring		
7428	314B7165	East WRF	2	2	2 x 2	Regular Monitoring		
7429	274B8080	East WRF	2	2	2 x 2	Regular Monitoring	BAYSHORE BLVD	2019
7430	299A2080	East WRF	2	2	2 x 2	Regular Monitoring		
7431	288B7005	East WRF	2	2	2 x 2	Regular Monitoring		
7432	288B5040	East WRF	2	2	2 x 2	Regular Monitoring		
7433	297A2035	East WRF	2	2	2 x 2	Regular Monitoring	JASMINE WAY	2018
7434	297A3060	East WRF	2	2	2 x 2	Regular Monitoring	SKYVIEW AVE	2021
7435	307A1115	East WRF	2	2	2 x 2	Regular Monitoring		
7436	291B7155	East WRF	2	2	2 x 2	Regular Monitoring		
7437	300A1015	East WRF	2	2	2 x 2	Regular Monitoring		
7438	314B6050	East WRF	2	2	2 x 2	Regular Monitoring		
7439	306B6055	East WRF	2	2	2 x 2	Regular Monitoring		
7440	307B8010	East WRF	2	2	2 x 2	Regular Monitoring		
7441	315B7010	East WRF	2	2	2 x 2	Regular Monitoring		
7442	317B5040	East WRF	2	2	2 x 2	Regular Monitoring	GLENANN DR	2019
7443	306B6025	East WRF	2	2	2 x 2	Regular Monitoring		
7444	317B5085	East WRF	2	2	2 x 2	Regular Monitoring	PREMIER VILLAGE WAY	2019
7445	314B8055	East WRF	2	2	2 x 2	Regular Monitoring		
7446	314B7065	East WRF	2	2	2 x 2	Regular Monitoring		
7447	317B5095	East WRF	2	2	2 x 2	Regular Monitoring	PREMIER VILLAGE WAY	2019
7448	306B8115	East WRF	2	2	2 x 2	Regular Monitoring		
7449	315B8120	East WRF	2	2	2 x 2	Regular Monitoring		
7450	292A1050	East WRF	2	2	2 x 2	Regular Monitoring		
7451	297B5025	East WRF	2	2	2 x 2	Regular Monitoring		
7452	297B6020	East WRF	2	2	2 x 2	Regular Monitoring		
7453	307A1080	East WRF	2	2	2 x 2	Regular Monitoring		
7454	314B7125	East WRF	2	2	2 x 2	Regular Monitoring		
7455	314B7120	East WRF	2	2	2 x 2	Regular Monitoring		
7456	314B7170	East WRF	2	2	2 x 2	Regular Monitoring		
7457	314B8115	East WRF	2	2	2 x 2	Regular Monitoring		
7458	314B8135	East WRF	2	2	2 x 2	Regular Monitoring		
7459	297B7105	East WRF	2	2	2 x 2	Regular Monitoring	TURNER ST	2021
7460	307A1300	East WRF	2	2	2 x 2	Regular Monitoring		
7461	292A3155	East WRF	2	2	2 x 2	Regular Monitoring		
7462	314B7095	East WRF	2	2	2 x 2	Regular Monitoring		
7463	306B7135	East WRF	2	2	2 x 2	Regular Monitoring		
7464	314B7300	East WRF	2	2	2 x 2	Regular Monitoring		
7465	306B8120	East WRF	2	2	2 x 2	Regular Monitoring		
7466	292A1210	East WRF	2	2	2 x 2	Regular Monitoring		
7467	297A2015	East WRF	2	2	2 x 2	Regular Monitoring		
7468	292A3150	East WRF	2	2	2 x 2	Regular Monitoring		
7469	297B8050	East WRF	2	2	2 x 2	Regular Monitoring		
7470	314B5030	East WRF	2	2	2 x 2	Regular Monitoring		
7471	298B6100	East WRF	2	2	2 x 2	Regular Monitoring		
7472	297B8025	East WRF	2	2	2 x 2	Regular Monitoring		
7473	292A3130	East WRF	2	2	2 x 2	Regular Monitoring		
7474	292A3145	East WRF	2	2	2 x 2	Regular Monitoring		
7475	298B6050	East WRF	2	2	2 x 2	Regular Monitoring		
7476	309B5065	East WRF	2	2	2 x 2	Regular Monitoring		
7477	299A2055	East WRF	2	2	2 x 2	Regular Monitoring		
7478	298A4080	East WRF	2	2	2 x 2	Regular Monitoring		
7479	288B5045	East WRF	2	2	2 x 2	Regular Monitoring		
7480	299A4150	East WRF	2	2	2 x 2	Regular Monitoring		
7481	298A2060	East WRF	2	2	2 x 2	Regular Monitoring		
7482	308A3005	East WRF	2	2	2 x 2	Regular Monitoring		
7483	297A2065	East WRF	2	2	2 x 2	Regular Monitoring		
7484	301A1055	East WRF	2	2	2 x 2	Regular Monitoring		
7485	315A1020	East WRF	2	2	2 x 2	Regular Monitoring		
7486	314B6010	East WRF	2	2	2 x 2	Regular Monitoring		
7487	314B5050	East WRF	2	2	2 x 2	Regular Monitoring		
7488	315B6010	East WRF	2	2	2 x 2	Regular Monitoring		
7489	318A2030	East WRF	2	2	2 x 2	Regular Monitoring		
7490	314B7040	East WRF	2	2	2 x 2	Regular Monitoring		
7491	297A2060	East WRF	2	2	2 x 2	Regular Monitoring		
7492	297B7110	East WRF	2	2	2 x 2	Regular Monitoring	TURNER ST	2021
7493	297A2110	East WRF	2	2	2 x 2	Regular Monitoring		
7494	298B6085	East WRF	2	2	2 x 2	Regular Monitoring		
7495	297B7140	East WRF	2	2	2 x 2	Regular Monitoring		
7496	314B7150	East WRF	2	2	2 x 2	Regular Monitoring		
7497	297A2165	East WRF	2	2	2 x 2	Regular Monitoring		
7498	297A2115	East WRF	2	2	2 x 2	Regular Monitoring		
7499	297B6040	East WRF	2	2	2 x 2	Regular Monitoring		
7500	298A1065	East WRF	2	2	2 x 2	Regular Monitoring		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
7501	314B7060	East WRF	2	2	2 x 2	Regular Monitoring		
7502	315A2030	East WRF	2	2	2 x 2	Regular Monitoring		
7503	307A1305	East WRF	2	2	2 x 2	Regular Monitoring		
7504	291B7225	East WRF	2	2	2 x 2	Regular Monitoring		
7505	291B7220	East WRF	2	2	2 x 2	Regular Monitoring		
7506	314B7315	East WRF	2	2	2 x 2	Regular Monitoring		
7507	298A4105	East WRF	2	2	2 x 2	Regular Monitoring		
7508	307A1035	East WRF	2	2	2 x 2	Regular Monitoring		
7509	291B7115	East WRF	2	2	2 x 2	Regular Monitoring		
7510	315B6065	East WRF	2	2	2 x 2	Regular Monitoring		
7511	314B5040	East WRF	2	2	2 x 2	Regular Monitoring		
7512	298A4100	East WRF	2	2	2 x 2	Regular Monitoring		
7513	298B6080	East WRF	2	2	2 x 2	Regular Monitoring		
7514	298B8020	East WRF	2	2	2 x 2	Regular Monitoring		
7515	314B8130	East WRF	2	2	2 x 2	Regular Monitoring		
7516	298B8100	East WRF	2	1	2 x 1	Regular Monitoring		
7517	307A1195	East WRF	2	1	2 x 1	Regular Monitoring		
7518	298B8025	East WRF	2	1	2 x 1	Regular Monitoring		
7519	298B8030	East WRF	2	1	2 x 1	Regular Monitoring		
7520	298B8045	East WRF	2	1	2 x 1	Regular Monitoring		
7521	307A1225	East WRF	2	1	2 x 1	Regular Monitoring		
7522	298B8065	East WRF	2	1	2 x 1	Regular Monitoring		
7523	310A3065	East WRF	1	4	1 x 4	Regular Monitoring		
7524	300A4100	East WRF	1	4	1 x 4	Regular Monitoring		
7525	298A1135	East WRF	1	4	1 x 4	Regular Monitoring	S ARCTURAS AVE	2021
7526	301A1025	East WRF	1	4	1 x 4	Regular Monitoring		
7527	310A2015	East WRF	1	4	1 x 4	Regular Monitoring		
7528	300A4075	East WRF	1	4	1 x 4	Regular Monitoring		
7529	300B6005	East WRF	1	4	1 x 4	Regular Monitoring		
7530	310A4010	East WRF	1	4	1 x 4	Regular Monitoring		
7531	309B8050	East WRF	1	4	1 x 4	Regular Monitoring		
7532	289A2135	East WRF	1	4	1 x 4	Regular Monitoring		
7533	300B6025	East WRF	1	3	1 x 3	Regular Monitoring		
7534	300B7075	East WRF	1	3	1 x 3	Regular Monitoring		
7535	290B8070	East WRF	1	3	1 x 3	Regular Monitoring		
7536	300B6015	East WRF	1	3	1 x 3	Regular Monitoring		
7537	291B6105	East WRF	1	3	1 x 3	Regular Monitoring		
7538	310A2005	East WRF	1	3	1 x 3	Regular Monitoring		
7539	299B7065	East WRF	1	3	1 x 3	Regular Monitoring		
7540	300B5105	East WRF	1	3	1 x 3	Regular Monitoring		
7541	297B7010	East WRF	1	3	1 x 3	Regular Monitoring		
7542	297A4020	East WRF	1	3	1 x 3	Regular Monitoring		
7543	300B7085	East WRF	1	3	1 x 3	Regular Monitoring		
7544	315A4135	East WRF	1	3	1 x 3	Regular Monitoring		
7545	300B6045	East WRF	1	3	1 x 3	Regular Monitoring		
7546	317B5015	East WRF	1	3	1 x 3	Regular Monitoring		
7547	306B7175	East WRF	1	3	1 x 3	Regular Monitoring		
7548	297A4005	East WRF	1	3	1 x 3	Regular Monitoring		
7549	300B7065	East WRF	1	3	1 x 3	Regular Monitoring		
7550	290B8090	East WRF	1	3	1 x 3	Regular Monitoring		
7551	307B8020	East WRF	1	3	1 x 3	Regular Monitoring		
7552	307B8005	East WRF	1	3	1 x 3	Regular Monitoring		
7553	290B8010	East WRF	1	3	1 x 3	Regular Monitoring		
7554	300B7080	East WRF	1	3	1 x 3	Regular Monitoring		
7555	291B8105	East WRF	1	3	1 x 3	Regular Monitoring		
7556	301A1075	East WRF	1	3	1 x 3	Regular Monitoring		
7557	301A1070	East WRF	1	3	1 x 3	Regular Monitoring		
7558	297A2025	East WRF	1	3	1 x 3	Regular Monitoring		
7559	300B7090	East WRF	1	3	1 x 3	Regular Monitoring		
7560	301A1060	East WRF	1	3	1 x 3	Regular Monitoring		
7561	300B5085	East WRF	1	3	1 x 3	Regular Monitoring		
7562	297A4050	East WRF	1	3	1 x 3	Regular Monitoring		
7563	308A1025	East WRF	1	3	1 x 3	Regular Monitoring		
7564	298A4140	East WRF	1	3	1 x 3	Regular Monitoring		
7565	315B1005	East WRF	1	3	1 x 3	Regular Monitoring		
7566	318A1155	East WRF	1	3	1 x 3	Regular Monitoring		
7567	297A3200	East WRF	1	3	1 x 3	Regular Monitoring		
7568	297A3205	East WRF	1	3	1 x 3	Regular Monitoring		
7569	299B8165	East WRF	1	3	1 x 3	Regular Monitoring		
7570	290B8035	East WRF	1	3	1 x 3	Regular Monitoring		
7571	290B8032	East WRF	1	3	1 x 3	Regular Monitoring		
7572	299B8140	East WRF	1	3	1 x 3	Regular Monitoring		
7573	299B8145	East WRF	1	3	1 x 3	Regular Monitoring		
7574	299B8150	East WRF	1	3	1 x 3	Regular Monitoring		
7575	299B8155	East WRF	1	3	1 x 3	Regular Monitoring		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
7576	299B8160	East WRF	1	3	1 x 3	Regular Monitoring		
7577	307A3082	East WRF	1	3	1 x 3	Regular Monitoring		
7578	297B7200	East WRF	1	3	1 x 3	Regular Monitoring	FLORIDA AVE	2021
7579	297B7205	East WRF	1	3	1 x 3	Regular Monitoring		
7580	317A2200	East WRF	1	3	1 x 3	Regular Monitoring		
7581	308B5440	East WRF	1	3	1 x 3	Regular Monitoring		
7582	308B5435	East WRF	1	3	1 x 3	Regular Monitoring		
7583	308B5430	East WRF	1	3	1 x 3	Regular Monitoring		
7584	308B5420	East WRF	1	3	1 x 3	Regular Monitoring		
7585	298A1140	East WRF	1	3	1 x 3	Regular Monitoring	S ARCTURAS AVE	2021
7586	298A1145	East WRF	1	3	1 x 3	Regular Monitoring	S ARCTURAS AVE	2021
7587	MH24	East WRF	1	3	1 x 3	Regular Monitoring		
7588	MH25	East WRF	1	3	1 x 3	Regular Monitoring		
7589	MH26	East WRF	1	3	1 x 3	Regular Monitoring		
7590	MH27	East WRF	1	3	1 x 3	Regular Monitoring		
7591	MH28	East WRF	1	3	1 x 3	Regular Monitoring		
7592	MH29	East WRF	1	3	1 x 3	Regular Monitoring		
7593	309B8055	East WRF	1	3	1 x 3	Regular Monitoring		
7594	283A4025	East WRF	1	3	1 x 3	Regular Monitoring		
7595	300B7060	East WRF	1	3	1 x 3	Regular Monitoring		
7596	307B8030	East WRF	1	3	1 x 3	Regular Monitoring		
7597	309B7110	East WRF	1	3	1 x 3	Regular Monitoring		
7598	307A1025	East WRF	1	3	1 x 3	Regular Monitoring		
7599	297A4120	East WRF	1	3	1 x 3	Regular Monitoring		
7600	298B6035	East WRF	1	3	1 x 3	Regular Monitoring		
7601	298A2040	East WRF	1	3	1 x 3	Regular Monitoring		
7602	298A4040	East WRF	1	3	1 x 3	Regular Monitoring		
7603	299B6030	East WRF	1	3	1 x 3	Regular Monitoring		
7604	299B7045	East WRF	1	3	1 x 3	Regular Monitoring		
7605	315A4130	East WRF	1	3	1 x 3	Regular Monitoring		
7606	318A2025	East WRF	1	3	1 x 3	Regular Monitoring		
7607	308B9020	East WRF	1	3	1 x 3	Regular Monitoring		
7608	315B1000	East WRF	1	3	1 x 3	Regular Monitoring		
7609	291B7210	East WRF	1	3	1 x 3	Regular Monitoring		
7610	291B7215	East WRF	1	3	1 x 3	Regular Monitoring		
7611	308B5445	East WRF	1	3	1 x 3	Regular Monitoring		
7612	308B5425	East WRF	1	3	1 x 3	Regular Monitoring		
7613	308B5315	East WRF	1	3	1 x 3	Regular Monitoring		
7614	MH37	East WRF	1	3	1 x 3	Regular Monitoring		
7615	308B5415	East WRF	1	3	1 x 3	Regular Monitoring		
7616	292A4140	East WRF	1	2	1 x 2	Regular Monitoring		
7617	274B8115	East WRF	1	2	1 x 2	Regular Monitoring	SAN CARLOS ST	2019
7618	290B6040	East WRF	1	2	1 x 2	Regular Monitoring		
7619	298B6060	East WRF	1	2	1 x 2	Regular Monitoring		
7620	289A2020	East WRF	1	2	1 x 2	Regular Monitoring		
7621	298B6020	East WRF	1	2	1 x 2	Regular Monitoring		
7622	289B6025	East WRF	1	2	1 x 2	Regular Monitoring		
7623	297A2010	East WRF	1	2	1 x 2	Regular Monitoring		
7624	298A4070	East WRF	1	2	1 x 2	Regular Monitoring		
7625	292A1005	East WRF	1	2	1 x 2	Regular Monitoring		
7626	290A2030	East WRF	1	2	1 x 2	Regular Monitoring		
7627	298B6040	East WRF	1	2	1 x 2	Regular Monitoring		
7628	314B7070	East WRF	1	2	1 x 2	Regular Monitoring		
7629	308B5005	East WRF	1	2	1 x 2	Regular Monitoring		
7630	308B5010	East WRF	1	2	1 x 2	Regular Monitoring		
7631	306B8090	East WRF	1	2	1 x 2	Regular Monitoring		
7632	297B6110	East WRF	1	2	1 x 2	Regular Monitoring		
7633	298B6135	East WRF	1	2	1 x 2	Regular Monitoring		
7634	316A2045	East WRF	1	2	1 x 2	Regular Monitoring		
7635	307A1010	East WRF	1	2	1 x 2	Regular Monitoring		
7636	314B7180	East WRF	1	2	1 x 2	Regular Monitoring		
7637	317A3040	East WRF	1	2	1 x 2	Regular Monitoring	WILLIAMS CT	2019
7638	297B6090	East WRF	1	2	1 x 2	Regular Monitoring		
7639	289B6045	East WRF	1	2	1 x 2	Regular Monitoring		
7640	298B6095	East WRF	1	2	1 x 2	Regular Monitoring		
7641	297B6095	East WRF	1	2	1 x 2	Regular Monitoring		
7642	298B6045	East WRF	1	2	1 x 2	Regular Monitoring		
7643	298B6120	East WRF	1	2	1 x 2	Regular Monitoring		
7644	299A2050	East WRF	1	2	1 x 2	Regular Monitoring		
7645	298B6075	East WRF	1	2	1 x 2	Regular Monitoring		
7646	290A2005	East WRF	1	2	1 x 2	Regular Monitoring		
7647	288B7065	East WRF	1	2	1 x 2	Regular Monitoring		
7648	298A4055	East WRF	1	2	1 x 2	Regular Monitoring		
7649	288B6025	East WRF	1	2	1 x 2	Regular Monitoring		
7650	306B8005	East WRF	1	2	1 x 2	Regular Monitoring		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
7651	314B5070	East WRF	1	2	1 x 2	Regular Monitoring		
7652	315B6005	East WRF	1	2	1 x 2	Regular Monitoring		
7653	316A2060	East WRF	1	2	1 x 2	Regular Monitoring		
7654	307A3085	East WRF	1	2	1 x 2	Regular Monitoring		
7655	289B6050	East WRF	1	2	1 x 2	Regular Monitoring		
7656	298A1090	East WRF	1	2	1 x 2	Regular Monitoring		
7657	298A4110	East WRF	1	2	1 x 2	Regular Monitoring		
7658	299B7040	East WRF	1	2	1 x 2	Regular Monitoring		
7659	298A1120	East WRF	1	2	1 x 2	Regular Monitoring		
7660	297A4130	East WRF	1	2	1 x 2	Regular Monitoring		
7661	297A2120	East WRF	1	2	1 x 2	Regular Monitoring		
7662	298B6090	East WRF	1	2	1 x 2	Regular Monitoring		
7663	297A4115	East WRF	1	2	1 x 2	Regular Monitoring		
7664	298A1095	East WRF	1	2	1 x 2	Regular Monitoring		
7665	289B6020	East WRF	1	2	1 x 2	Regular Monitoring		
7666	297A2040	East WRF	1	2	1 x 2	Regular Monitoring		
7667	309B5020	East WRF	1	2	1 x 2	Regular Monitoring		
7668	306B8020	East WRF	1	2	1 x 2	Regular Monitoring		
7669	315A2035	East WRF	1	2	1 x 2	Regular Monitoring		
7670	315B6070	East WRF	1	2	1 x 2	Regular Monitoring		
7671	288B6015	East WRF	1	2	1 x 2	Regular Monitoring		
7672	289B5015	East WRF	1	2	1 x 2	Regular Monitoring		
7673	297A2045	East WRF	1	2	1 x 2	Regular Monitoring	JASMINE WAY	2018
7674	299B6020	East WRF	1	2	1 x 2	Regular Monitoring		
7675	297B7115	East WRF	1	2	1 x 2	Regular Monitoring		
7676	307A3060	East WRF	1	2	1 x 2	Regular Monitoring		
7677	315A2020	East WRF	1	2	1 x 2	Regular Monitoring		
7678	308B6075	East WRF	1	2	1 x 2	Regular Monitoring		
7679	289B5020	East WRF	1	2	1 x 2	Regular Monitoring		
7680	289A1010	East WRF	1	2	1 x 2	Regular Monitoring		
7681	289A4075	East WRF	1	2	1 x 2	Regular Monitoring		
7682	289A2110	East WRF	1	2	1 x 2	Regular Monitoring		
7683	297A2085	East WRF	1	2	1 x 2	Regular Monitoring		
7684	297A2055	East WRF	1	2	1 x 2	Regular Monitoring		
7685	297B5010	East WRF	1	2	1 x 2	Regular Monitoring		
7686	297B7120	East WRF	1	2	1 x 2	Regular Monitoring		
7687	297B6050	East WRF	1	2	1 x 2	Regular Monitoring		
7688	297B6065	East WRF	1	2	1 x 2	Regular Monitoring		
7689	307A1210	East WRF	1	2	1 x 2	Regular Monitoring		
7690	307A3040	East WRF	1	2	1 x 2	Regular Monitoring		
7691	317B8075	East WRF	1	2	1 x 2	Regular Monitoring		
7692	317B8080	East WRF	1	2	1 x 2	Regular Monitoring		
7693	317B8085	East WRF	1	2	1 x 2	Regular Monitoring		
7694	317B8070	East WRF	1	2	1 x 2	Regular Monitoring		
7695	317B8090	East WRF	1	2	1 x 2	Regular Monitoring		
7696	317B8095	East WRF	1	2	1 x 2	Regular Monitoring		
7697	317B8100	East WRF	1	2	1 x 2	Regular Monitoring		
7698	317B8105	East WRF	1	2	1 x 2	Regular Monitoring		
7699	299A4155	East WRF	1	2	1 x 2	Regular Monitoring		
7700	309B8060	East WRF	1	2	1 x 2	Regular Monitoring		
7701	292A4145	East WRF	1	2	1 x 2	Regular Monitoring		
7702	301A4000	East WRF	1	2	1 x 2	Regular Monitoring		
7703	301A4005	East WRF	1	2	1 x 2	Regular Monitoring		
7704	301A4010	East WRF	1	2	1 x 2	Regular Monitoring		
7705	301A4015	East WRF	1	2	1 x 2	Regular Monitoring		
7706	291B7230	East WRF	1	2	1 x 2	Regular Monitoring		
7707	291B7235	East WRF	1	2	1 x 2	Regular Monitoring		
7708	291B7200	East WRF	1	2	1 x 2	Regular Monitoring		
7709	291B7205	East WRF	1	2	1 x 2	Regular Monitoring		
7710	314B7305	East WRF	1	2	1 x 2	Regular Monitoring		
7711	292A1200	East WRF	1	2	1 x 2	Regular Monitoring		
7712	292A1205	East WRF	1	2	1 x 2	Regular Monitoring		
7713	308B5400	East WRF	1	2	1 x 2	Regular Monitoring		
7714	308B5405	East WRF	1	2	1 x 2	Regular Monitoring		
7715	308B5410	East WRF	1	2	1 x 2	Regular Monitoring		
7716	308B5310	East WRF	1	2	1 x 2	Regular Monitoring		
7717	308B5305	East WRF	1	2	1 x 2	Regular Monitoring		
7718	308B5300	East WRF	1	2	1 x 2	Regular Monitoring		
7719	MH36	East WRF	1	2	1 x 2	Regular Monitoring		
7720	MH171	East WRF	1	2	1 x 2	Regular Monitoring		
7721	309A4010	East WRF	1	2	1 x 2	Regular Monitoring	FLUSHING AVE	2019
7722	297B6045	East WRF	1	2	1 x 2	Regular Monitoring		
7723	314B8125	East WRF	1	1	1 x 1	Regular Monitoring		
7724	299A2090	East WRF	1	1	1 x 1	Regular Monitoring		
7725	298B8055	East WRF	1	1	1 x 1	Regular Monitoring		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
7726	233B5080	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7727	233B5070	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7728	233B5125	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7729	273B8060	Northeast WRF	3	1	3 x 1	Regular Monitoring	LEMONWOOD ST	2020
7730	273B6080	Northeast WRF	3	1	3 x 1	Regular Monitoring	KINGSWOOD DR	2020
7731	273B8035	Northeast WRF	3	1	3 x 1	Regular Monitoring	MELONWOOD AVE	2020
7732	233B5065	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7733	244A2055	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7734	233B5085	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7735	233B5050	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7736	233B5090	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7737	233B5075	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7738	233B5100	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7739	233B5120	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7740	273B6010	Northeast WRF	3	1	3 x 1	Regular Monitoring	EDENWOOD ST	2020
7741	273B6015	Northeast WRF	3	1	3 x 1	Regular Monitoring	KINGSWOOD DR	2020
7742	273B6020	Northeast WRF	3	1	3 x 1	Regular Monitoring	GRANTWOOD AVE	2020
7743	273B8015	Northeast WRF	3	1	3 x 1	Regular Monitoring	MELONWOOD AVE	2020
7744	273B6045	Northeast WRF	3	1	3 x 1	Regular Monitoring	HOMEWOOD ST	2020
7745	273B6070	Northeast WRF	3	1	3 x 1	Regular Monitoring	HOMEWOOD ST	2020
7746	233B5105	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7747	233B5115	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7748	233B5095	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7749	233B5110	Northeast WRF	3	1	3 x 1	Regular Monitoring		
7750	273B6005	Northeast WRF	3	1	3 x 1	Regular Monitoring	EDENWOOD ST	2020
7751	273B8010	Northeast WRF	3	1	3 x 1	Regular Monitoring	EDENWOOD ST	2020
7752	273B6035	Northeast WRF	3	1	3 x 1	Regular Monitoring	KINGSWOOD DR	2020
7753	273B6085	Northeast WRF	3	1	3 x 1	Regular Monitoring	HOLLYWOOD AVE	2020
7754	279B9060	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7755	234A1015	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7756	255A3015	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7757	244A2005	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7758	244A2025	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7759	244A2030	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7760	234A2070	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7761	244A2035	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7762	221A3075	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7763	263A2065	Northeast WRF	2	3	2 x 3	Regular Monitoring	W LAGOON CIR	2023
7764	255A4040	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7765	263B8095	Northeast WRF	2	3	2 x 3	Regular Monitoring	STAG RUN BLVD	2023
7766	271B6065	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7767	273A3020	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7768	290A3015	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7769	263A2050	Northeast WRF	2	3	2 x 3	Regular Monitoring	W LAGOON CIR	2023
7770	264B6035	Northeast WRF	2	3	2 x 3	Regular Monitoring	EL TRINDAD DR E	2022
7771	280B7020	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7772	254A2005	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7773	280B6130	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7774	233A2005	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7775	178A3075	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7776	221A3070	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7777	244A1065	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7778	280B6135	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7779	280B8065	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7780	279B8105	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7781	255A4045	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7782	244A1050	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7783	233A1080	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7784	255A3025	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7785	178A3040	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7786	244A2010	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7787	264A2050	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7788	280B5005	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7789	280A1025	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7790	290A3010	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7791	179A1015	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7792	255A4035	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7793	222B5060	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7794	281B7030	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7795	281A1095	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7796	271B6060	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7797	273A3065	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7798	280B8110	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7799	290A3005	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7800	281A2070	Northeast WRF	2	3	2 x 3	Regular Monitoring		

Appendix K - Manhole BRE Class

*Resurfacing Data Eff. Feb 2020. City resurfacing plan is constantly being updated and the staff of the R&R program should contact the City's Stormwater Engineering Group for the latest plan.

ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
7801	280B5003	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7802	201A2040	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7803	221A3040	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7804	279B9025	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7805	279B9030	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7806	279B9020	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7807	272A3105	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7808	272A3130	Northeast WRF	2	3	2 x 3	Regular Monitoring	FLINT LOCK DR	2023
7809	272B5125	Northeast WRF	2	3	2 x 3	Regular Monitoring	RIDGE TOP WAY	2023
7810	253A2135	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7811	201B5010	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7812	201B5015	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7813	201B5020	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7814	271A4080	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7815	MH9	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7816	MH81	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7817	MH88	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7818	MH125	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7819	MH169	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7820	MH184	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7821	MH185	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7822	MH189	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7823	MH190	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7824	MH191	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7825	255A4015	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7826	211B8125	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7827	273A3015	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7828	265A2010	Northeast WRF	2	3	2 x 3	Regular Monitoring	ST. CROIX DR	2022
7829	234A1030	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7830	211A4105	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7831	244A2015	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7832	273A4020	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7833	264A2085	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7834	273A1005	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7835	281A1100	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7836	244A2020	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7837	281B7035	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7838	221A3025	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7839	279B9040	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7840	254B1015	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7841	190A1630	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7842	211B8120	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7843	279B2135	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7844	264A4015	Northeast WRF	2	3	2 x 3	Regular Monitoring	N TERRACE DR	2022
7845	264A3160	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7846	280B6115	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7847	255A3010	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7848	264A3025	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7849	264A3060	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7850	221A3080	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7851	264B6075	Northeast WRF	2	3	2 x 3	Regular Monitoring	EL TRINDAD DR E	2022
7852	255A3005	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7853	222A3055	Northeast WRF	2	3	2 x 3	Regular Monitoring	WINDING WOOD DR	2022
7854	233A2050	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7855	289B7085	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7856	282A4195	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7857	263B8097	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7858	264A3185	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7859	264A4090	Northeast WRF	2	3	2 x 3	Regular Monitoring	EVANS DR	2022
7860	264A4055	Northeast WRF	2	3	2 x 3	Regular Monitoring	EVANS DR	2022
7861	281A1070	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7862	272A3115	Northeast WRF	2	3	2 x 3	Regular Monitoring	FLINT LOCK DR	2023
7863	271B9000	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7864	271A4075	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7865	264A3155	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7866	178A3045	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7867	178A3030	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7868	200B8035	Northeast WRF	2	3	2 x 3	Regular Monitoring	EAGLE ESTATES CIR E	2018
7869	264A3090	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7870	233A1205	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7871	234A2075	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7872	244A2040	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7873	264A3120	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7874	279B9015	Northeast WRF	2	3	2 x 3	Regular Monitoring		
7875	234A2030	Northeast WRF	2	2	2 x 2	Regular Monitoring		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
7876	221A3100	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7877	200B7005	Northeast WRF	2	2	2 x 2	Regular Monitoring	EAGLE ESTATES CIR W	2018
7878	200B8050	Northeast WRF	2	2	2 x 2	Regular Monitoring	EAGLE ESTATES CIR S	2018
7879	178A3090	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7880	178A3070	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7881	200B8055	Northeast WRF	2	2	2 x 2	Regular Monitoring	EAGLE ESTATES CIR S	2018
7882	178A3065	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7883	178A2075	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7884	244A4010	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7885	244A4055	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7886	189B7085	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7887	221A3050	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7888	178A2035	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7889	178A2065	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7890	200A4010	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7891	264A4035	Northeast WRF	2	2	2 x 2	Regular Monitoring	LUCAS DR	2022
7892	263A4035	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7893	263A4060	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7894	273A3055	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7895	264A4125	Northeast WRF	2	2	2 x 2	Regular Monitoring	GROVE DR	2022
7896	264B6190	Northeast WRF	2	2	2 x 2	Regular Monitoring	EL TRINDAD DR E	2022
7897	264A3065	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7898	264A4075	Northeast WRF	2	2	2 x 2	Regular Monitoring	LUCAS DR	2022
7899	281A1060	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7900	264A3105	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7901	263B6065	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7902	291A1025	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7903	264A4115	Northeast WRF	2	2	2 x 2	Regular Monitoring	LUCAS DR	2022
7904	222B5075	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7905	178A2105	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7906	263B6060	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7907	263B5010	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7908	200B8040	Northeast WRF	2	2	2 x 2	Regular Monitoring	EAGLE ESTATES CIR W	2018
7909	244A4070	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7910	244A4035	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7911	264B7030	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7912	178A2005	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7913	178A4050	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7914	178A3060	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7915	200B7020	Northeast WRF	2	2	2 x 2	Regular Monitoring	EAGLE ESTATES CIR N	2018
7916	200B8005	Northeast WRF	2	2	2 x 2	Regular Monitoring	EAGLE ESTATES CIR E	2018
7917	289B8005	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7918	255A4011	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7919	200B8030	Northeast WRF	2	2	2 x 2	Regular Monitoring	EAGLE ESTATES CIR W	2018
7920	200B8045	Northeast WRF	2	2	2 x 2	Regular Monitoring	EAGLE ESTATES CIR S	2018
7921	221A3045	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7922	189B8050	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7923	256A2020	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7924	200B7015	Northeast WRF	2	2	2 x 2	Regular Monitoring	EAGLE ESTATES CIR N	2018
7925	200B8010	Northeast WRF	2	2	2 x 2	Regular Monitoring	EAGLE TRL	2018
7926	244A4050	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7927	178A3095	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7928	263A4055	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7929	273A4035	Northeast WRF	2	2	2 x 2	Regular Monitoring	EDENWOOD ST	2020
7930	271B6035	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7931	263A4045	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7932	264B6130	Northeast WRF	2	2	2 x 2	Regular Monitoring	EL TRINDAD DR E	2022
7933	200B8015	Northeast WRF	2	2	2 x 2	Regular Monitoring	EAGLE ESTATES CIR E	2018
7934	178A2070	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7935	233B8050	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7936	232A3130	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7937	178A3080	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7938	244A1025	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7939	233A2045	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7940	254B8010	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7941	221A3095	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7942	244A4065	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7943	200B8025	Northeast WRF	2	2	2 x 2	Regular Monitoring	EAGLE ESTATES CIR E	2018
7944	221A3035	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7945	189B7015	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7946	178A2045	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7947	256A2005	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7948	263B5015	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7949	264A4040	Northeast WRF	2	2	2 x 2	Regular Monitoring	THOMAS DR	2022
7950	272B5065	Northeast WRF	2	2	2 x 2	Regular Monitoring	FLINT LOCK DR	2023

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
7951	264A3045	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7952	264B7015	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7953	264A4085	Northeast WRF	2	2	2 x 2	Regular Monitoring	GROVE DR	2022
7954	262B8014	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7955	262B8013	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7956	244A4060	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7957	255B8005	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7958	279B9005	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7959	279B9010	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7960	279B9000	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7961	261B7075	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7962	261B7080	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7963	263B8115	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7964	178A3025	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7965	178A3020	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7966	282A4190	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7967	264A3100	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7968	264A3095	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7969	233A1220	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7970	244A1100	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7971	244A1105	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7972	MH2	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7973	MH3	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7974	MH4	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7975	MH87	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7976	MH89	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7977	MH90	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7978	MH155	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7979	MH168	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7980	244A4025	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7981	233A2040	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7982	211A1053	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7983	189B6030	Northeast WRF	2	2	2 x 2	Regular Monitoring	HYDE PARK DR	2022
7984	200B7010	Northeast WRF	2	2	2 x 2	Regular Monitoring	TALON DR	2018
7985	244A4503	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7986	244B8115	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7987	190A2020	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7988	255A3080	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7989	264A4080	Northeast WRF	2	2	2 x 2	Regular Monitoring	THOMAS DR	2022
7990	264B6180	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7991	211A1054	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7992	189B7065	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7993	234A2035	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7994	264A3125	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7995	264A3015	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7996	272B5090	Northeast WRF	2	2	2 x 2	Regular Monitoring	EL TAIR TRL	2023
7997	189A4010	Northeast WRF	2	2	2 x 2	Regular Monitoring	MASTERS DR	2022
7998	211A1045	Northeast WRF	2	2	2 x 2	Regular Monitoring		
7999	178A2110	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8000	264B7010	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8001	252B8035	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8002	255A3075	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8003	200B6045	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8004	244A4045	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8005	178A2115	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8006	281A3075	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8007	271B6050	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8008	289B8045	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8009	189B8010	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8010	190A2010	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8011	272B5035	Northeast WRF	2	2	2 x 2	Regular Monitoring	EL TAIR TRL	2023
8012	264B7035	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8013	273B5030	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8014	281A3060	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8015	281A1010	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8016	272B9000	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8017	233A1235	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8018	244A4501	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8019	253A4065	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8020	264B7020	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8021	232A4010	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8022	233A1230	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8023	178A1155	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8024	244A1110	Northeast WRF	2	2	2 x 2	Regular Monitoring		
8025	273B6095	Northeast WRF	2	2	2 x 2	Regular Monitoring	JADEWOOD AVE	2020

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
8026	222A3020	Northeast WRF	2	1	2 x 1	Regular Monitoring		
8027	212A2055	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8028	272A4070	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8029	273A2075	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8030	290B7025	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8031	272B6100	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8032	272A4055	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8033	272B6110	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8034	272B6105	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8035	272A1045	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8036	272A4060	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8037	272A1030	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8038	211B8116	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8039	272A4050	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8040	272B6115	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8041	272B8015	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8042	272B8025	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8043	279B8006	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8044	282B7071	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8045	282B2072	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8046	282B2073	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8047	282B2074	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8048	282B2075	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8049	272A1020	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8050	282B7070	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8051	232B5015	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8052	272A4005	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8053	272A4030	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8054	290B7020	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8055	272A4025	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8056	272B8010	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8057	271A4045	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8058	271A4050	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8059	279B8007	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8060	282B2076	Northeast WRF	1	4	1 x 4	Regular Monitoring		
8061	211A4110	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8062	211B6170	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8063	273A1080	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8064	274A2035	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8065	281A2020	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8066	274A2040	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8067	273A1030	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8068	279B7045	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8069	255A4014	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8070	211A4100	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8071	281A1106	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8072	232B5005	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8073	211B7015	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8074	264A2070	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8075	273A1010	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8076	291A3025	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8077	211A4120	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8078	211B7050	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8079	232B7085	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8080	280B7005	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8081	274A2020	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8082	273A3115	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8083	221A3020	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8084	273A4085	Northeast WRF	1	3	1 x 3	Regular Monitoring	APPLEWOOD DR	2020
8085	271A4055	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8086	279B2145	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8087	221A4085	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8088	272B8020	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8089	282B5042	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8090	282B5040	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8091	282B5041	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8092	283A1019	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8093	283A1017	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8094	283A1016	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8095	283A1018	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8096	281B8135	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8097	262B5090	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8098	262B5095	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8099	254B1000	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8100	254B1010	Northeast WRF	1	3	1 x 3	Regular Monitoring		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
8101	190A1625	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8102	190A1620	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8103	280B8140	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8104	264B7070	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8105	264B7065	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8106	MH153	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8107	MH177	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8108	MH179	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8109	MH183	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8110	272A4020	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8111	264B7075	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8112	233A2035	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8113	211B8065	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8114	255A4013	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8115	222B7055	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8116	253B8090	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8117	281A3015	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8118	280A2065	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8119	271A4060	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8120	280A2140	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8121	281B8140	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8122	262B5100	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8123	264B7080	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8124	264B7060	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8125	MH178	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8126	283A1100	Northeast WRF	1	3	1 x 3	Regular Monitoring		
8127	234A2050	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8128	234A2055	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8129	178A4120	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8130	244B8070	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8131	189A3050	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8132	178A4025	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8133	222B7090	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8134	232A2065	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8135	234A2045	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8136	232A2100	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8137	232A4100	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8138	234A2025	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8139	232A4105	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8140	232A2105	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8141	211B8080	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8142	178A4080	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8143	189A3085	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8144	189A4020	Northeast WRF	1	2	1 x 2	Regular Monitoring	MASTERS DR	2022
8145	252B8065	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8146	265A1060	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8147	234A2065	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8148	211B8045	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8149	189B8005	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8150	253A4090	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8151	253A4045	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8152	263A2055	Northeast WRF	1	2	1 x 2	Regular Monitoring	W MANOR AVE	2023
8153	252B8085	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8154	273B6065	Northeast WRF	1	2	1 x 2	Regular Monitoring	CANDLEWOOD ST	2020
8155	289B7015	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8156	252B8055	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8157	265A1030	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8158	252B8080	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8159	264B7040	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8160	234A2080	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8161	264B8060	Northeast WRF	1	2	1 x 2	Regular Monitoring	SUE DR	2022
8162	200B8020	Northeast WRF	1	2	1 x 2	Regular Monitoring	TALON DR	2018
8163	264B7025	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8164	263A3005	Northeast WRF	1	2	1 x 2	Regular Monitoring	PRINCETON DR	2020
8165	252B8060	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8166	263A2030	Northeast WRF	1	2	1 x 2	Regular Monitoring	W MANOR AVE	2023
8167	263A3070	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8168	272B5030	Northeast WRF	1	2	1 x 2	Regular Monitoring	MIDNIGHT PASS WAY	2023
8169	263A3035	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8170	281A3035	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8171	279B8100	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8172	280A2085	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8173	211B6015	Northeast WRF	1	2	1 x 2	Regular Monitoring	CEDAR RUN CT	2022
8174	253A4040	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8175	253A4005	Northeast WRF	1	2	1 x 2	Regular Monitoring		

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
8176	232A2080	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8177	234A2010	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8178	234A2060	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8179	189A4040	Northeast WRF	1	2	1 x 2	Regular Monitoring	MASTERS DR	2022
8180	178A4070	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8181	234A2015	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8182	178A4100	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8183	222B7050	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8184	244A4020	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8185	211B8085	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8186	232A4120	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8187	189B5050	Northeast WRF	1	2	1 x 2	Regular Monitoring	HYDE PARK DR	2022
8188	234A2040	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8189	189B5040	Northeast WRF	1	2	1 x 2	Regular Monitoring	HYDE PARK DR	2022
8190	211A3035	Northeast WRF	1	2	1 x 2	Regular Monitoring	WESTCHESTER DR N	2022
8191	244A4040	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8192	280B6070	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8193	264A3020	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8194	281A2010	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8195	200B6055	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8196	178A4140	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8197	211B6005	Northeast WRF	1	2	1 x 2	Regular Monitoring	CEDAR RUN CT	2022
8198	253A4020	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8199	200A1095	Northeast WRF	1	2	1 x 2	Regular Monitoring	CLUBHOUSE DR N	2022
8200	189B6025	Northeast WRF	1	2	1 x 2	Regular Monitoring	SUN GLOW WAY	2022
8201	222B7060	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8202	232A4095	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8203	232A2060	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8204	253A4075	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8205	222B7020	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8206	222B6075	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8207	244A4015	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8208	190A2005	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8209	178A4010	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8210	178A4085	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8211	252B8075	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8212	234A2090	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8213	234A2020	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8214	178A2090	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8215	200A4040	Northeast WRF	1	2	1 x 2	Regular Monitoring	WESTCHESTER DR N	2022
8216	264A3140	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8217	264A3180	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8218	281A1005	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8219	264A4120	Northeast WRF	1	2	1 x 2	Regular Monitoring	THOMAS DR	2022
8220	261B8025	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8221	263A3060	Northeast WRF	1	2	1 x 2	Regular Monitoring	PRINCETON DR	2020
8222	264A3175	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8223	281A1045	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8224	263B6095	Northeast WRF	1	2	1 x 2	Regular Monitoring	MIDNIGHT PASS WAY	2023
8225	272B5060	Northeast WRF	1	2	1 x 2	Regular Monitoring	MIDNIGHT PASS WAY	2023
8226	232A2010	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8227	178A4125	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8228	232A2075	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8229	222B5015	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8230	188B7005	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8231	253A4025	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8232	234A1100	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8233	222B7005	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8234	211A1030	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8235	234A2095	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8236	178A4040	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8237	232A4090	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8238	232A4020	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8239	252B8095	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8240	253A4070	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8241	189A3025	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8242	222B7075	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8243	200A1090	Northeast WRF	1	2	1 x 2	Regular Monitoring	CLUBHOUSE DR N	2022
8244	189A4015	Northeast WRF	1	2	1 x 2	Regular Monitoring	MASTERS DR	2022
8245	234A2005	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8246	233B7085	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8247	211A1040	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8248	234A1095	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8249	263A4040	Northeast WRF	1	2	1 x 2	Regular Monitoring	CASEY JONES CT	2023
8250	264A2015	Northeast WRF	1	2	1 x 2	Regular Monitoring		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
8251	281A3090	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8252	272B5070	Northeast WRF	1	2	1 x 2	Regular Monitoring	MIDNIGHT PASS WAY	2023
8253	265A1035	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8254	281A2030	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8255	263B6100	Northeast WRF	1	2	1 x 2	Regular Monitoring	MIDNIGHT PASS WAY	2023
8256	281A1055	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8257	290A3095	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8258	221A3010	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8259	272B9005	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8260	272B9010	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8261	271B6055	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8262	271A4065	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8263	271A4070	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8264	263A4030	Northeast WRF	1	2	1 x 2	Regular Monitoring	CASEY JONES CT	2023
8265	233A3110	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8266	233A3115	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8267	281B8145	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8268	245A1050	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8269	245A1055	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8270	245A1060	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8271	245A1065	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8272	245A1070	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8273	245A1075	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8274	245A1080	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8275	245A1085	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8276	245A1090	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8277	245A1095	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8278	245A1100	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8279	245A1105	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8280	245A1110	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8281	245A1115	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8282	245A1120	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8283	233A1200	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8284	233A1210	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8285	233A1215	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8286	233A1225	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8287	244A1115	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8288	178A1150	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8289	244A4502	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8290	244A4504	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8291	262B5105	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8292	280B1130	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8293	283A1105	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8294	281B7019	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8295	272A5055	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8296	272A5050	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8297	272A5045	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8298	272A5040	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8299	272A5035	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8300	272A5030	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8301	272A5025	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8302	272A5015	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8303	272A5020	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8304	272A5010	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8305	211A1220	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8306	211A1230	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8307	264B7085	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8308	264B7055	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8309	264B7050	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8310	291A1125	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8311	291A1130	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8312	291A1150	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8313	291A1145	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8314	MH39	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8315	MH180	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8316	MH181	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8317	MH187	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8318	MH193	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8319	271B9005	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8320	281B7018	Northeast WRF	1	2	1 x 2	Regular Monitoring		
8321	281B7015	Northeast WRF	1	1	1 x 1	Regular Monitoring		
8322	271B9010	Northeast WRF	1	1	1 x 1	Regular Monitoring		
8323	271B9015	Northeast WRF	1	1	1 x 1	Regular Monitoring		
8324	281B7017	Northeast WRF	1	1	1 x 1	Regular Monitoring		
8325	MH165	Northeast WRF	1	1	1 x 1	Regular Monitoring		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
8326	MH166	Northeast WRF	1	1	1 x 1	Regular Monitoring		
8327	MH167	Northeast WRF	1	1	1 x 1	Regular Monitoring		
8328	238A2025	Marshall Street WRF	NA	NA	NA	NA		
8329	252A2015	Marshall Street WRF	NA	NA	NA	NA		
8330	252A2010	Marshall Street WRF	NA	NA	NA	NA		
8331	321B7010	Marshall Street WRF	NA	NA	NA	NA		
8332	321B7045	Marshall Street WRF	NA	NA	NA	NA		
8333	321B7065	Marshall Street WRF	NA	NA	NA	NA		
8334	321B7005	Marshall Street WRF	NA	NA	NA	NA		
8335	267A1020	Marshall Street WRF	NA	NA	NA	NA		
8336	269B6105	Marshall Street WRF	NA	NA	NA	NA		
8337	267A1035	Marshall Street WRF	NA	NA	NA	NA		
8338	321B7035	Marshall Street WRF	NA	NA	NA	NA		
8339	321B7015	Marshall Street WRF	NA	NA	NA	NA		
8340	321B7025	Marshall Street WRF	NA	NA	NA	NA		
8341	321B7020	Marshall Street WRF	NA	NA	NA	NA		
8342	321B7040	Marshall Street WRF	NA	NA	NA	NA		
8343	252A2025	Marshall Street WRF	NA	NA	NA	NA		
8344	267A1030	Marshall Street WRF	NA	NA	NA	NA		
8345	306A3100	Marshall Street WRF	NA	NA	NA	NA		
8346	321B7060	Marshall Street WRF	NA	NA	NA	NA		
8347	286B9005	Marshall Street WRF	NA	NA	NA	NA		
8348	251B9985	Marshall Street WRF	NA	NA	NA	NA		
8349	260A4025	Marshall Street WRF	NA	NA	NA	NA		
8350	277B6040	Marshall Street WRF	NA	NA	NA	NA		
8351	294A4060	Marshall Street WRF	NA	NA	NA	NA		
8352	277B1045	Marshall Street WRF	NA	NA	NA	NA	JONES ST	2018
8353	279B9075	Marshall Street WRF	NA	NA	NA	NA		
8354	297B7050	East WRF	NA	NA	NA	NA		
8355	283B6010	East WRF	NA	NA	NA	NA		
8356	292A1010	East WRF	NA	NA	NA	NA		
8357	301A3020	East WRF	NA	NA	NA	NA		
8358	275A1010	East WRF	NA	NA	NA	NA		
8359	283B6005	East WRF	NA	NA	NA	NA		
8360	283B6035	East WRF	NA	NA	NA	NA		
8361	283B6020	East WRF	NA	NA	NA	NA		
8362	297B7055	East WRF	NA	NA	NA	NA		
8363	297B7080	East WRF	NA	NA	NA	NA		
8364	317A1035	East WRF	NA	NA	NA	NA		
8365	317A1045	East WRF	NA	NA	NA	NA		
8366	316B7100	East WRF	NA	NA	NA	NA		
8367	292A1015	East WRF	NA	NA	NA	NA		
8368	317A1015	East WRF	NA	NA	NA	NA		
8369	316B7105	East WRF	NA	NA	NA	NA		
8370	316B7115	East WRF	NA	NA	NA	NA		
8371	316B7110	East WRF	NA	NA	NA	NA		
8372	307A2015	East WRF	NA	NA	NA	NA		
8373	316B7135	East WRF	NA	NA	NA	NA		
8374	317A1030	East WRF	NA	NA	NA	NA		
8375	309B6020	East WRF	NA	NA	NA	NA		
8376	275A1005	East WRF	NA	NA	NA	NA		
8377	297B7061	East WRF	NA	NA	NA	NA		
8378	283B6030	East WRF	NA	NA	NA	NA		
8379	283B6015	East WRF	NA	NA	NA	NA		
8380	316B7120	East WRF	NA	NA	NA	NA		
8381	307A2025	East WRF	NA	NA	NA	NA		
8382	317B8015	East WRF	NA	NA	NA	NA		
8383	317A2130	East WRF	NA	NA	NA	NA		
8384	309B8040	East WRF	NA	NA	NA	NA		
8385	309B8035	East WRF	NA	NA	NA	NA		
8386	307A2030	East WRF	NA	NA	NA	NA		
8387	316B7125	East WRF	NA	NA	NA	NA		
8388	307A2020	East WRF	NA	NA	NA	NA		
8389	297B6082	East WRF	NA	NA	NA	NA		
8390	317A2045	East WRF	NA	NA	NA	NA		
8391	317A2035	East WRF	NA	NA	NA	NA		
8392	297B7075	East WRF	NA	NA	NA	NA		
8393	232B5025	Northeast WRF	NA	NA	NA	NA		
8394	221B8120	Northeast WRF	NA	NA	NA	NA		
8395	188B5110	Northeast WRF	NA	NA	NA	NA		
8396	221B8140	Northeast WRF	NA	NA	NA	NA		
8397	244A1010	Northeast WRF	NA	NA	NA	NA		
8398	265A2120	Northeast WRF	NA	NA	NA	NA		
8399	265A2105	Northeast WRF	NA	NA	NA	NA		
8400	188B5105	Northeast WRF	NA	NA	NA	NA		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
8401	290A1005	Northeast WRF	NA	NA	NA	NA		
8402	263B8110	Northeast WRF	NA	NA	NA	NA		
8403	221B8135	Northeast WRF	NA	NA	NA	NA		
8404	221B8090	Northeast WRF	NA	NA	NA	NA		
8405	244A1040	Northeast WRF	NA	NA	NA	NA		
8406	221A1060	Northeast WRF	NA	NA	NA	NA		
8407	221A1045	Northeast WRF	NA	NA	NA	NA		
8408	244A1005	Northeast WRF	NA	NA	NA	NA		
8409	221B8035	Northeast WRF	NA	NA	NA	NA		
8410	221A1035	Northeast WRF	NA	NA	NA	NA		
8411	221A2010	Northeast WRF	NA	NA	NA	NA		
8412	221A1025	Northeast WRF	NA	NA	NA	NA		
8413	244A1055	Northeast WRF	NA	NA	NA	NA		
8414	289B7010	Northeast WRF	NA	NA	NA	NA		
8415	212A2025	Northeast WRF	NA	NA	NA	NA		
8416	244A1045	Northeast WRF	NA	NA	NA	NA		
8417	188B5080	Northeast WRF	NA	NA	NA	NA		
8418	221A1040	Northeast WRF	NA	NA	NA	NA		
8419	221B8130	Northeast WRF	NA	NA	NA	NA		
8420	221A1050	Northeast WRF	NA	NA	NA	NA		
8421	221A2005	Northeast WRF	NA	NA	NA	NA		
8422	221B8125	Northeast WRF	NA	NA	NA	NA		
8423	188B5130	Northeast WRF	NA	NA	NA	NA		
8424	262B8045	Northeast WRF	NA	NA	NA	NA		
8425	262B5030	Northeast WRF	NA	NA	NA	NA		
8426	188B5135	Northeast WRF	NA	NA	NA	NA		
8427	188B5115	Northeast WRF	NA	NA	NA	NA		
8428	188B5120	Northeast WRF	NA	NA	NA	NA		
8429	262B5015	Northeast WRF	NA	NA	NA	NA		
8430	262B5035	Northeast WRF	NA	NA	NA	NA		
8431	262B5005	Northeast WRF	NA	NA	NA	NA		
8432	262B5010	Northeast WRF	NA	NA	NA	NA		
8433	262B5020	Northeast WRF	NA	NA	NA	NA		
8434	262B5025	Northeast WRF	NA	NA	NA	NA		
8435	221A4095	Northeast WRF	NA	NA	NA	NA		
8436	264A2090	Northeast WRF	NA	NA	NA	NA		
8437	MH82	Northeast WRF	NA	NA	NA	NA		
8438	MH83	Northeast WRF	NA	NA	NA	NA		
8439	MH84	Northeast WRF	NA	NA	NA	NA		
8440	177B5090	NA	NA	NA	NA	NA		
8441	177B6065	NA	NA	NA	NA	NA		
8442	177B8055	NA	NA	NA	NA	NA		
8443	177B5020	NA	NA	NA	NA	NA		
8444	177B6035	NA	NA	NA	NA	NA		
8445	177B5050	NA	NA	NA	NA	NA		
8446	177B8005	NA	NA	NA	NA	NA		
8447	177B5060	NA	NA	NA	NA	NA		
8448	177B5035	NA	NA	NA	NA	NA		
8449	177B6030	NA	NA	NA	NA	NA		
8450	177B8080	NA	NA	NA	NA	NA		
8451	177B5030	NA	NA	NA	NA	NA		
8452	177B6025	NA	NA	NA	NA	NA		
8453	177B8015	NA	NA	NA	NA	NA		
8454	177B6005	NA	NA	NA	NA	NA		
8455	177B5005	NA	NA	NA	NA	NA		
8456	177B5065	NA	NA	NA	NA	NA		
8457	177B8050	NA	NA	NA	NA	NA		
8458	177B8060	NA	NA	NA	NA	NA		
8459	177B8065	NA	NA	NA	NA	NA		
8460	177B6020	NA	NA	NA	NA	NA		
8461	177B8040	NA	NA	NA	NA	NA		
8462	177B5040	NA	NA	NA	NA	NA		
8463	177B5070	NA	NA	NA	NA	NA		
8464	177B5015	NA	NA	NA	NA	NA		
8465	177B8085	NA	NA	NA	NA	NA		
8466	177B8070	NA	NA	NA	NA	NA		
8467	177B6015	NA	NA	NA	NA	NA		
8468	177B6055	NA	NA	NA	NA	NA		
8469	177B8045	NA	NA	NA	NA	NA		
8470	177B8010	NA	NA	NA	NA	NA		
8471	177B6070	NA	NA	NA	NA	NA		
8472	177B5080	NA	NA	NA	NA	NA		
8473	177B6040	NA	NA	NA	NA	NA		
8474	177B5010	NA	NA	NA	NA	NA		
8475	177B6045	NA	NA	NA	NA	NA		

Appendix K - Manhole BRE Class

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ORDER	SS_ID	ZONE	CONDITION	CRITICALITY	BRE MATRIX	BRE	CIP PAVING STREET*	PAVING YEAR*
8476	177B5025	NA	NA	NA	NA	NA		
8477	177B6060	NA	NA	NA	NA	NA		
8478	177B8030	NA	NA	NA	NA	NA		
8479	177B8020	NA	NA	NA	NA	NA		
8480	177B5045	NA	NA	NA	NA	NA		
8481	177B8095	NA	NA	NA	NA	NA		
8482	177B5100	NA	NA	NA	NA	NA		
8483	177B5075	NA	NA	NA	NA	NA		
8484	177B8090	NA	NA	NA	NA	NA		
8485	177B5095	NA	NA	NA	NA	NA		
8486	177B5055	NA	NA	NA	NA	NA		
8487	177B6090	NA	NA	NA	NA	NA		
8488	177B6095	NA	NA	NA	NA	NA		
8489	177B5085	NA	NA	NA	NA	NA		
8490	177B6010	NA	NA	NA	NA	NA		
8491	177B8025	NA	NA	NA	NA	NA		
8492	177B8035	NA	NA	NA	NA	NA		
8493	177B8075	NA	NA	NA	NA	NA		
8494	177B6050	NA	NA	NA	NA	NA		
8495	177B6075	NA	NA	NA	NA	NA		
8496	177B6080	NA	NA	NA	NA	NA		
8497	177B6085	NA	NA	NA	NA	NA		

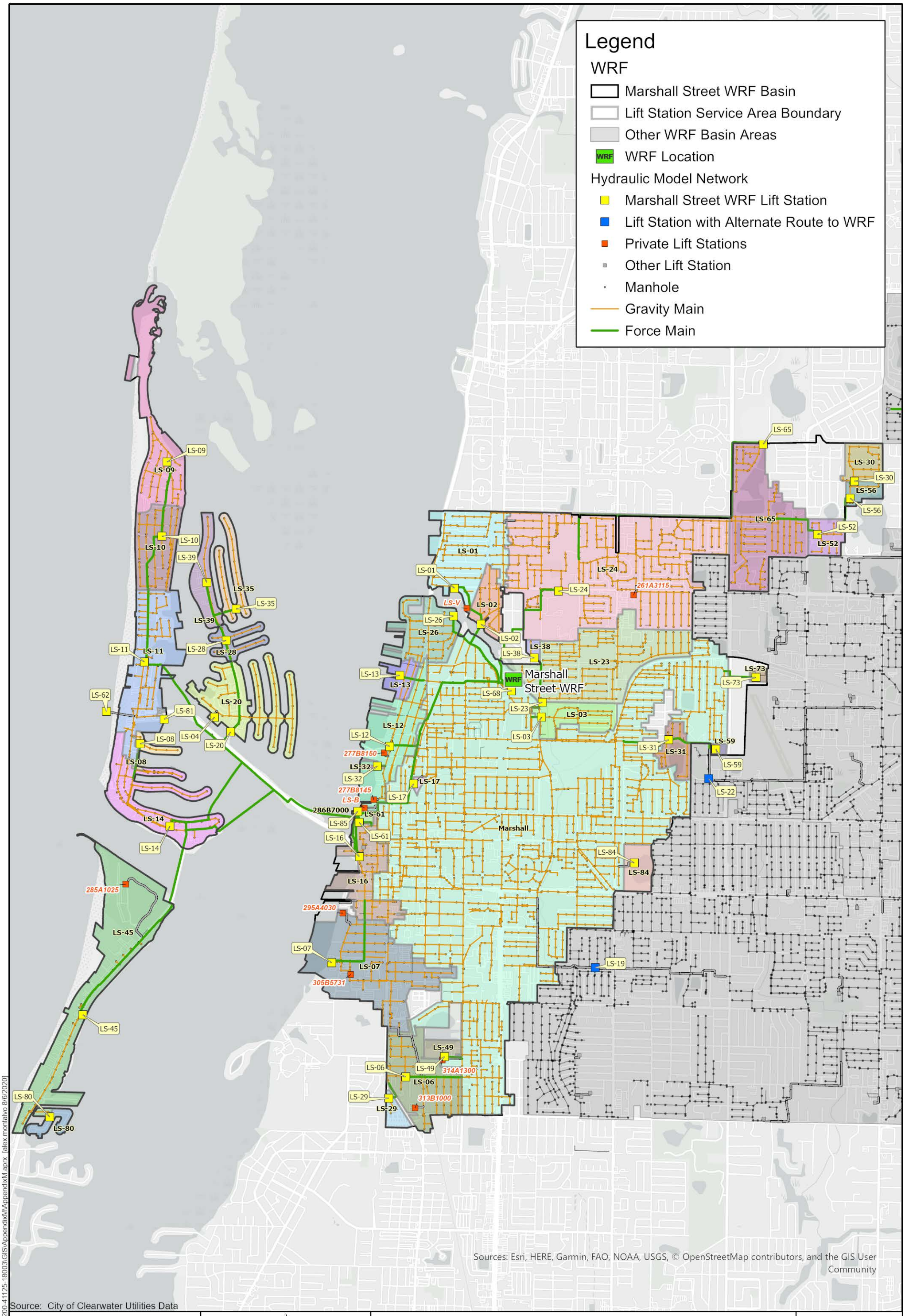
APPENDIX L

GIS SHAPEFILES

- GM_CONDITION.SHP
  - EXPORT OF ALL PIPES WITH CONDITION SCORES
  - KEY DATA FIELDS:
    - COND_TT: IDENTIFIES ASSET CONDITION SCORE 1-5
    - COND_SRC: IDENTIFIES SOURCE OF SCORE, CCTV OR CALCULATION BASED ON AGE AND MATERIAL
- GM_CCTV.SHP:
  - DESC: EXPORT OF 3559 GM ASSETS WITH CCTV INSPECTION DATA
  - KEY DATA FIELDS:
    - CCTV: IDENTIFIES ASSETS WITH CCTV DATA
- GM_CCTV_NEED.SHP
  - DESC: EXPORT OF 5296 GM ASSETS THAT MAY NEED CCTV INSPECTION IN THE FUTURE
  - KEY DATA FIELDS:
    - ACTIONS: IDENTIFIES SHORT TERM OR LONG TERM CCTV NEED
- GM_RNR.SHP
  - DESC: EXPORT OF GM ASSETS IN THE HIGHEST PRIORITY (IMMEDEATE), HIGH PRIORITY, AND PRIORITY BRE CLASSES
  - KEY DATA FIELDS:
    - COND_TT: IDENTIFIES ASSET CONDITION SCORE 1-5
    - COND_SRC: FIELD IDENTIFIES SOURCE OF SCORE, CCTV OR CALCULATION BASED ON AGE AND MATERIAL
    - CRITICAL: CRITICALITY SCORE FROM BRE ANALYSIS
    - BRE_MATRIX: CONDITION AND CRITICALITY MATRIX (EX. 5X3)
    - BRE_GROUP: IDENTIFIES THE RESPECTIVE BRE CLASS]HIGHEST PRIORITY (IMMEDEATE), HIGH PRIORITY, AND PRIORITY]
- MH_RNR.SHP
  - DESC: EXPORT OF MH ASSETS THE HIGHEST PRIORITY (IMMEDEATE), HIGH PRIORITY, AND PRIORITY BRE CLASSES
  - KEY DATA FIELDS:
    - COND_TT: IDENTIFIES ASSET CONDITION SCORE 1-5
    - COND_SRC: IDENTIFIES SOURCE OF SCORE, CCTV OR CALCULATION BASED ON AGE AND MATERIAL
    - CRITICAL: CRITICALITY SCORE FROM BRE ANALYSIS
    - BRE_MATRIX: CONDITION AND CRITICALITY MATRIX (EX. 5X3)
    - BRE_GROUP: IDENTIFIES THE RESPECTIVE BRE CLASS]HIGHEST PRIORITY (IMMEDEATE), HIGH PRIORITY, AND PRIORITY]

APPENDIX M

HYDRAULIC MODEL NETWORK AND LIFT STATION LOCATIONS ILLUSTRATIONS



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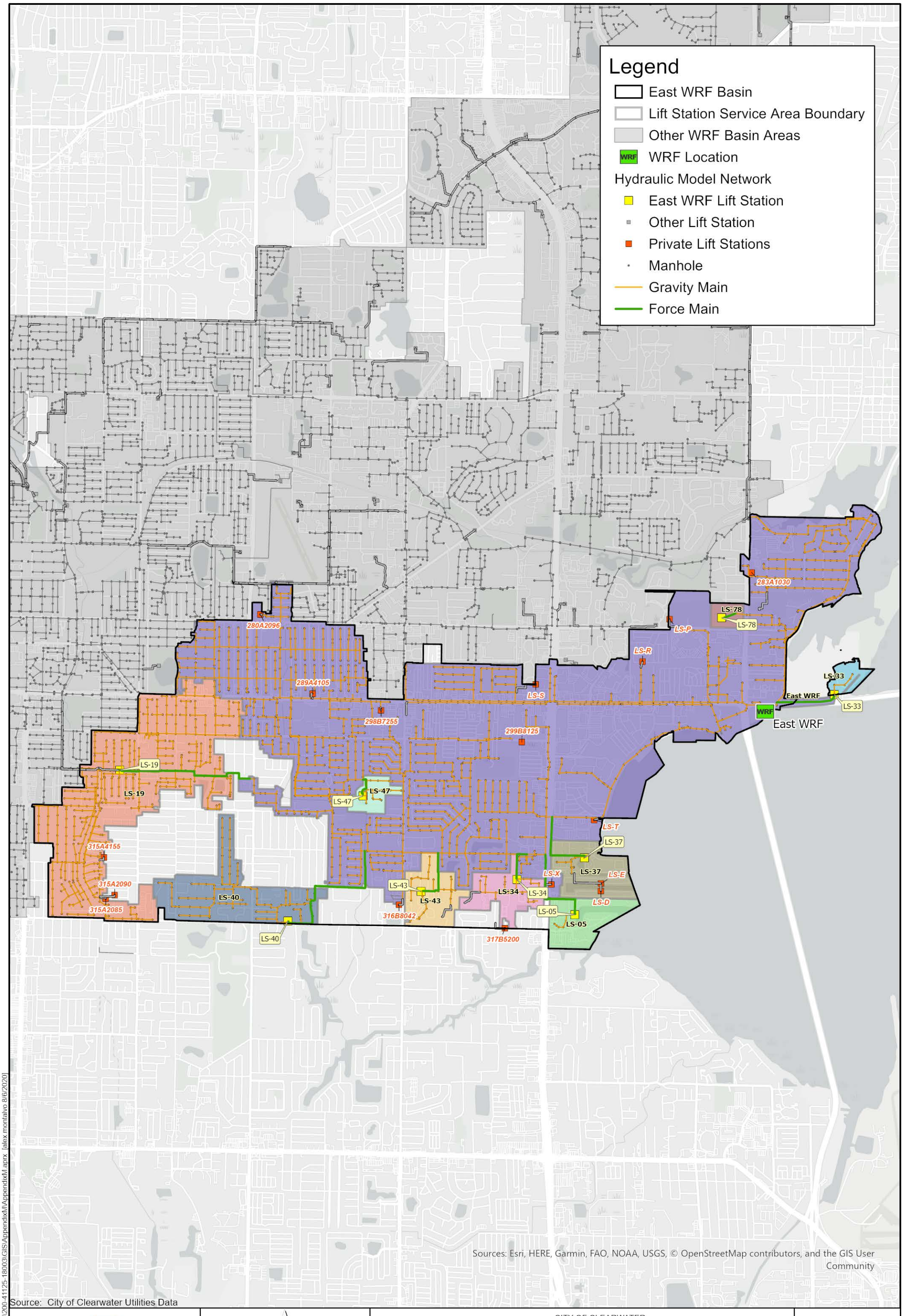
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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN

MARSHALL STREET WRF BASIN
HYDRAULIC MODEL NETWORK AND LIFT STATION LOCATIONS

APPENDIX M-1


Legend
East WRF Basin
Lift Station Service Area Boundary
Other WRF Basin Areas
WRF Location
Hydraulic Model Network
East WRF Lift Station
Other Lift Station
Private Lift Stations
Manhole
Gravity Main
Force Main
283A1030
LS-78
LS-78
LS-P
LS-R
LS-33
East WRF
LS-33
WRF
East WRF
280A2096
289A4105
LS-S
298B7255
299B8125
LS-19
LS-19
LS-47
LS-47
LS-T
LS-37
315A4155
LS-37
LS-X
LS-E
315A2090
LS-43
LS-34
LS-34
LS-43
LS-D
LS-40
315A2085
316B8042
LS-05
LS-05
LS-40
317B5200
Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community
Source: City of Clearwater Utilities Data
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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
EAST WRF BASIN
HYDRAULIC MODEL NETWORK AND LIFT STATION LOCATIONS
APPENDIX M-2
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Legend

- Northeast WRF Basin
- Lift Station Service Area Boundary
- Other WRF Basin Areas
- WRF Location

Hydraulic Model Network

- Northeast WRF Lift Station
- Other Lift Station
- Private Lift Stations
- Manhole
- Gravity Main
- Force Main

LS-L, LS-64, LS-53, 179A3000, LS-66, LS-W, LS-55, LS-O, LS-N, LS-I, NEWRF, LS-42, LS-82, Northeast WRF, LS-60, LS-72, 212A1090, 212A5000, LS-G, LS-83, LS-27, LS-41, LS-48, LS-46, LS-50, LS-25, LS-15, LS-51, LS-54, LS-69, 245A3000, LS-67, 245A1350, LS-M, 254B8125, LS-F, LS-K, 253A4105, 264A4155, LS-H, LS_NA, LS-58, LS-J, 271B7155, 271B7140, LS-A, 272A5000, 280B1000, LS-22, LS-74, LS-79, LS-U, LS-Q, 282B6080, WRF, East WRF

Sources: Esri, HERE, Garmin, FAQ, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Source: City of Clearwater Utilities Data

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CITY OF CLEARWATER
COLLECTION SYSTEM MASTER PLAN
NORTHEAST WRF BASIN
HYDRAULIC MODEL NETWORK AND LIFT STATION LOCATIONS

APPENDIX M-3