





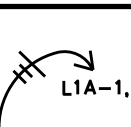
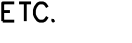


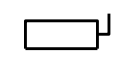



GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED DURING TIME PERIODS ACCEPTABLE TO THE OWNER. SCHEDULE ALL WORK WITH THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING.
2. THE CONTRACTOR SHALL PERFORM ALL TEMPORARY WORK NECESSARY TO MAINTAIN CONTINUITY OF ELECTRICAL SERVICE WHEN CONNECTION IS MADE TO EXISTING SYSTEMS AND FACILITIES. EXISTING SERVICE SHALL NOT BE INTERRUPTED WITHOUT PRIOR CONSENT OF THE OWNER'S REPRESENTATIVE AND MAY BE INTERRUPTED ONLY AT AND FOR THE SPECIFIED TIME DESIGNATED BY OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE GUIDED BY THE OWNER'S REPRESENTATIVE AT ALL TIMES IN MATTERS AFFECTING THE EXISTING FACILITIES.
3. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL ENSURE THAT ALL SYSTEMS OPERATE AS DESIGNED AND REQUIRED AND SHALL REVIEW THEIR OPERATION WITH THE OWNER. COMPLETE SET OF AS-BUILT DRAWINGS SHALL BE COMPILED (BY THE CONTRACTOR) AND ISSUED (1 EACH) TO THE ENGINEER UPON COMPLETION OF CONSTRUCTION AND TESTING.
4. ALL ELECTRICAL AND INSTRUMENTATION WIRING AND CONDUIT SHALL BE INSTALLED BELOW GRADE AND SHALL NOT CROSS SIDEWALKS OR WALKWAYS.
5. ABOVE GRADE CONDUITS SHALL BE CONSTRUCTED OF RIGID ALUMINUM PER SPECIFICATION SECTION 16110, 2.01.
6. BELOW GRADE CONDUITS SHALL BE CONSTRUCTED OF SCHEDULE 80 PVC PER SPECIFICATION SECTION 16110, 2.02.

GENERAL DEMOLITION NOTES:

1. REMOVE AND/OR RELOCATE ALL CONDUIT WIRE, OUTLET BOXES, ETC. WHICH ARE MADE UNNECESSARY BECAUSE OF DEMOLITION/NEW CONSTRUCTION. VERIFY LOCATIONS AND QUANTITIES OF ELECTRICAL EQUIPMENT AND WIRING AT THE SITE. CONDUIT TO BE REMOVED OR ABANDONED SHALL BE REMOVED COMPLETELY IF POSSIBLE. WHERE (ABOVE GRADE) REMOVAL IS NOT POSSIBLE, CONDUIT SHALL BE CAPPED AND TAGGED AS SPARE. WHERE (BELOW GRADE) REMOVAL IS NOT POSSIBLE, CONDUIT SHALL BE CUT BELOW THE SURFACE AND CAPPED. ALL MATERIALS REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR. PATCH CONCRETE FLOOR TO MATCH EXISTING.
2. ANY DEMOLITION OR REMOVAL INDICATED IS SHOWN TO PROVIDE THE GENERAL EXTENT OF DEMOLITION. THIS INFORMATION IS NOT A RECORD DRAWING OF EXISTING CONDITIONS.
3. ANY DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT (AS INDICATED IN NOTES 1 & 2 ABOVE) SHALL BE CONFIRMED AND APPROVED BY OWNER BEFORE EXISTING EQUIPMENT IS DISCONNECTED AND REMOVED.

ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	DUPLEX RECEPTACLE WITH GROUND FAULT PROTECTION (20A,125V) PROVIDE WITH WEATHERPROOF WHILE-IN-USE COVER	M.H. 18" TO CENTERLINE
	PANELBOARD, 120/208V.	
	JUNCTION BOX OR OUTLET BOX, 4"x2 1/8" DEEP BOX UNLESS OTHERWISE NOTED	SEE SPECIFICATIONS
	RACEWAY CONCEALED IN WALL OR ABOVE CEILINGS	SEE SPECIFICATIONS
	RACEWAY CONCEALED UNDER FLOOR OR BELOW GRADE	SEE SPECIFICATIONS
	RACEWAY EXPOSED ON WALL OR CEILING	SEE SPECIFICATIONS
	HOMERUN TO PANEL, LETTERS INDICATE PANEL, NUMBERS INDICATE CIRCUIT. NOTE: ANY CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A TWO WIRE CIRCUIT. A GREATER NUMBER OF WIRES IS INDICATED AS SHOWN:  (3 WIRES & EQUIPMENT GROUND),  (4 WIRES & EQUIPMENT GROUND), ETC.	SEE SPECIFICATIONS
	MOTOR, NUMERAL INDICATES HORSEPOWER	SEE SPECIFICATIONS
	NON-FUSIBLE SAFETY SWITCH	SEE SPECIFICATIONS
	VARIABLE FREQUENCY DRIVES	SEE SPECIFICATIONS
EX	DENOTES EXISTING DEVICE OR CIRCUIT TO REMAIN	
WP	DENOTES WEATHERPROOF	
GFI	DENOTES GROUND FAULT INTERRUPTER TYPE	
AI	ANALOG INPUT	
AO	ANALOG OUTPUT	
DI	DIGITAL INPUT	
DO	DIGITAL OUTPUT	

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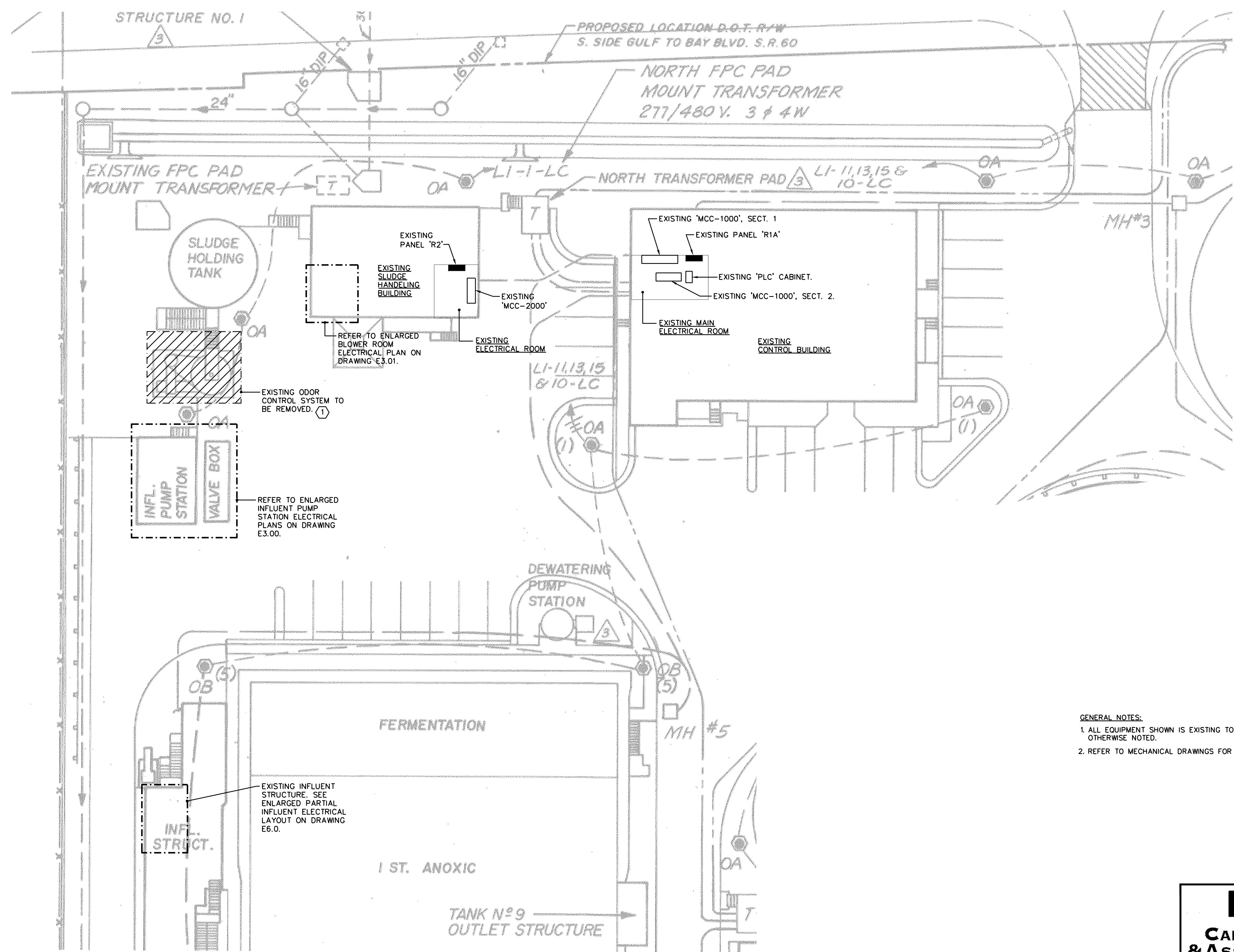
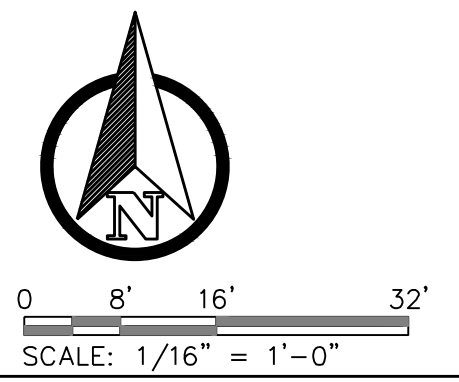
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**EAST WRF INFLUENT PUMP STATION
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 ELECTRICAL SYMBOL LEGEND & NOTES**

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GENERAL NOTES:
 1. ALL EQUIPMENT SHOWN IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
 2. REFER TO MECHANICAL DRAWINGS FOR AREA OF WORK.

DRAWING NOTES:
 ① SEE GENERAL DEMOLITION NOTES ON DRAWING E1.00.

ELECTRICAL SITE PLAN

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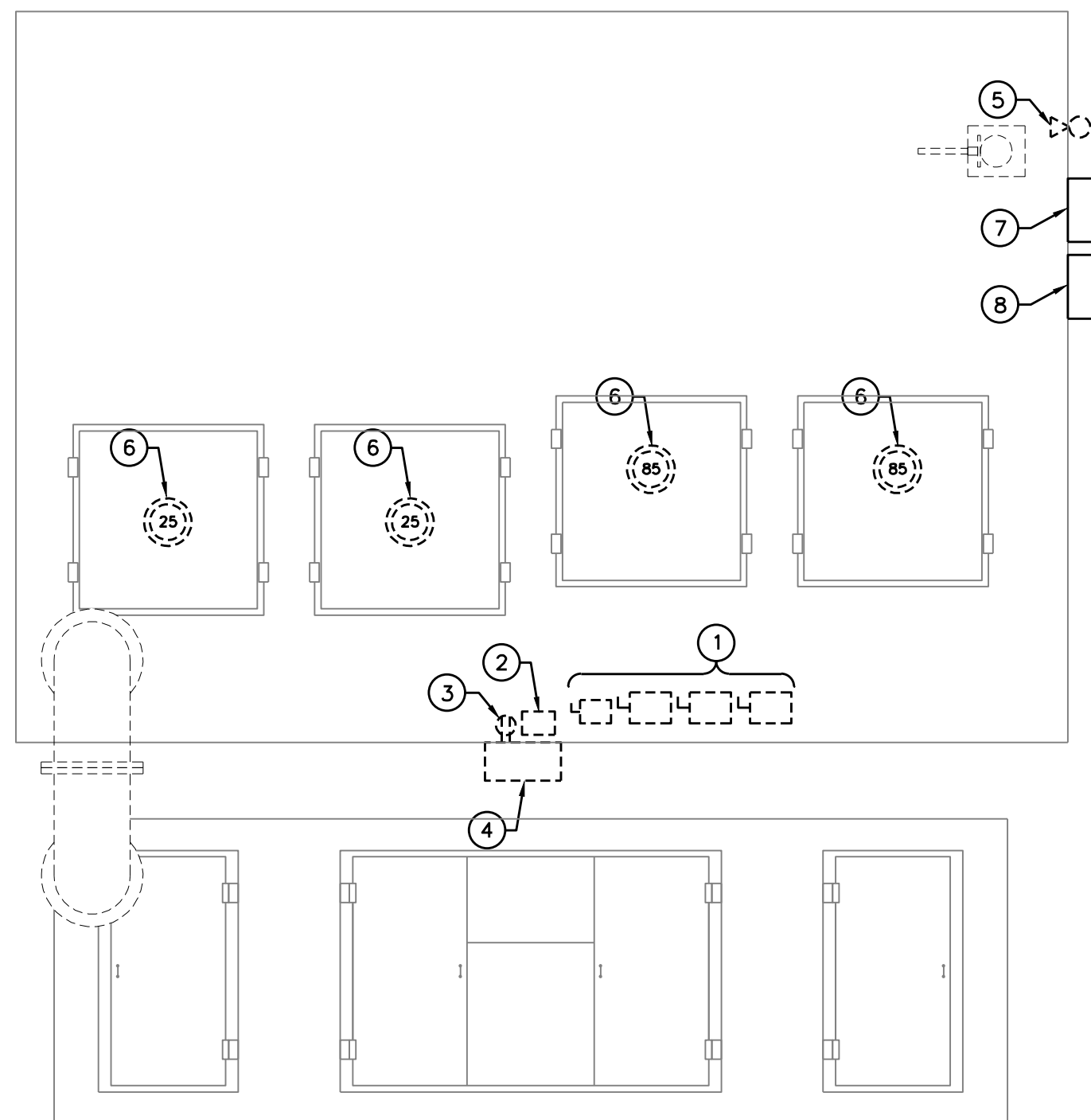
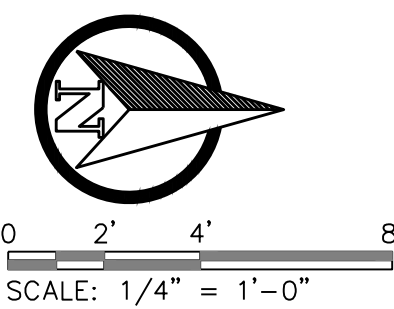
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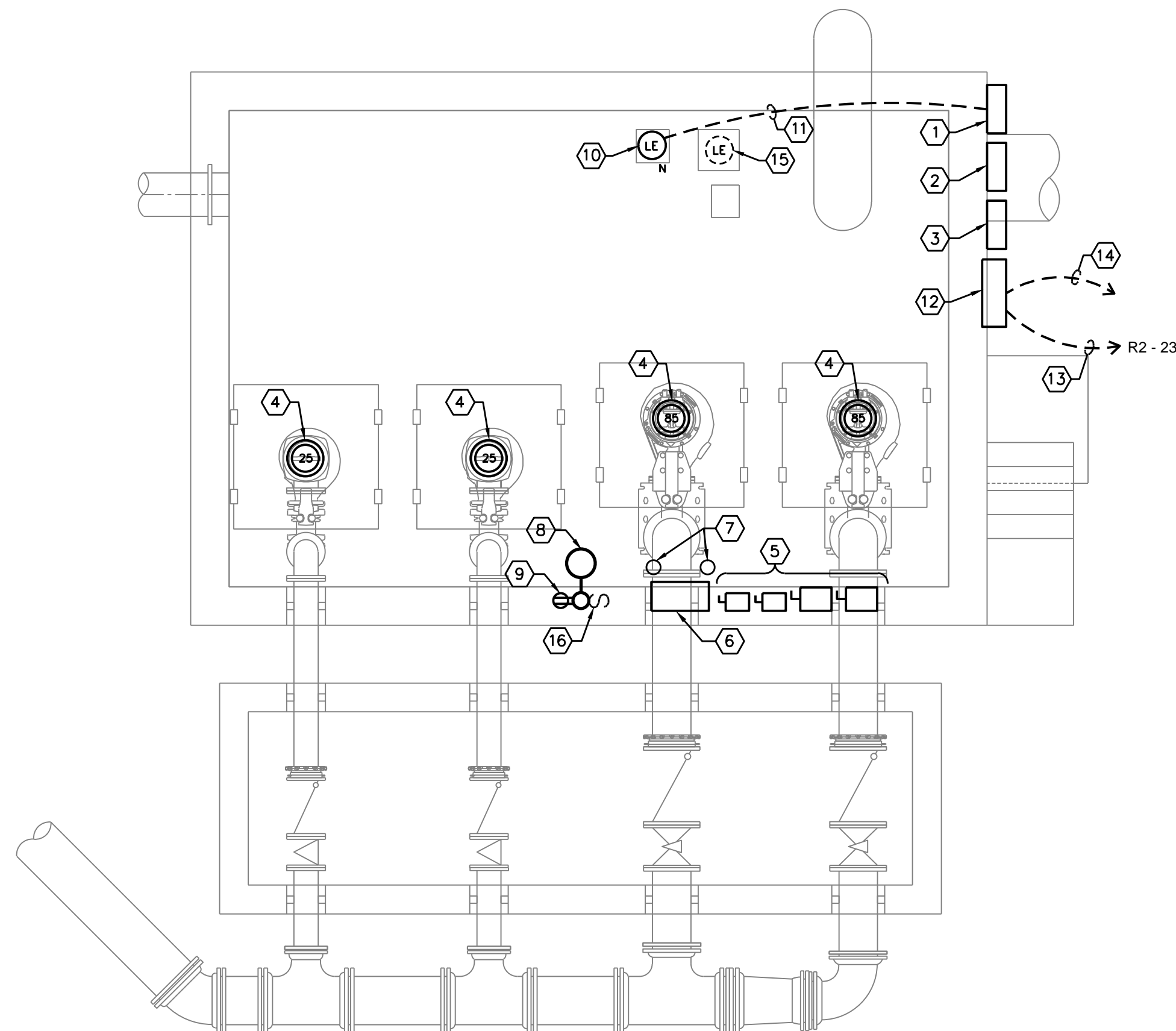
INFLUENT PUMP STATION ELECTRICAL PLAN – DEMOLITION

DEMOLITION NOTES:

- ① EXISTING DISCONNECT SWITCHES TO BE REMOVED.
- ② EXISTING LOW VOLTAGE JUNCTION BOX TO BE REMOVED.
- ③ EXISTING GFI DUPLEX RECEPTACLE TO BE REMOVED.
- ④ EXISTING TERMINATION/JUNCTION TO BE REMOVED.
- ⑤ EXISTING LIGHT FIXTURE AND POLE TO BE REMOVED.
- ⑥ EXISTING SUBMERSIBLE PUMP TO BE REMOVED.
- ⑦ EXISTING (ANALOG) JUNCTION BOX TO BE REMOVED AND RELOCATED TO NEW LOCATION SHOWN ON RENOVATION PLAN. EXTEND EXISTING CONDUIT AND CONDUCTORS TO NEW LOCATION.
- ⑧ EXISTING (DIGITAL) JUNCTION BOX TO BE REMOVED AND RELOCATED TO NEW LOCATION SHOWN ON RENOVATION PLAN. EXTEND EXISTING CONDUIT AND CONDUCTORS TO NEW LOCATION.

GENERAL NOTES:

- 1. PROVIDE AND INSTALL RIGID ALUMINUM CONDUITS FOR ALL ABOVE GRADE INSTALLATIONS. SEE SPECIFICATION SECTION 16110.
- 2. ALL ABOVE GRADE BOXES, FITTINGS AND COVER PLATES TO BE CAST ALUMINUM. SEE SPECIFICATION SECTION 16143.
- 3. PROVIDE AND INSTALL (SCHEDULE 80) PVC CONDUITS FOR ALL BELOW GRADE INSTALLATIONS. SEE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION. SEE SPECIFICATION SECTION 16110.



INFLUENT PUMP STATION ELECTRICAL PLAN – RENOVATION

DRAWING NOTES:

- ① EXISTING LEVEL INDICATING TRANSMITTER CONTROL PANEL TO BE REMOVED AND REPLACED WITH NEW RADAR LEVEL TRANSMITTER. REUSE EXISTING 120 VOLT POWER AND CONTROL WIRING. EXISTING PANEL ENCLOSURE TO REMAIN.
- ② RELOCATED (ANALOG) JUNCTION BOX.
- ③ RELOCATED (DIGITAL) JUNCTION BOX TO REMAIN.
- ④ NEW SUBMERSIBLE PUMP BY OTHERS.
- ⑤ FURNISH AND INSTALL NEW PUMP DISCONNECT SWITCHES.
- ⑥ FURNISH AND INSTALL NEW TERMINAL/JUNCTION BOX.
- ⑦ EXISTING 6" SLEEVE PENETRATIONS TO REMAIN.
- ⑧ FURNISH AND INSTALL NEW POLE MOUNTED (LED) LIGHT FIXTURE. SEE POLE LIGHTING DETAIL ON DRAWING E5.00.
- ⑨ FURNISH AND INSTALL NEW WEATHERPROOF GFI DUPLEX RECEPTACLE WITH IN-USE COVERPLATE. SEE POLE LIGHTING DETAIL ON DRAWING E5.00.
- ⑩ EXISTING ULTRASONIC LEVEL SENSOR TO BE REMOVED AND REPLACED WITH NEW RADAR LEVEL SENSOR.
- ⑪ EXISTING CONDUIT AND WIRING TO BE REMOVED AND REPLACED WITH NEW MANUFACTURER SUPPLIED CABLE(S) IN 3/4" C.
- ⑫ NEW SECONDARY VALVE ENCLOSURE (SVE) PANEL.
- ⑬ FURNISH AND INSTALL NEW 20A., 120V., 1-POLE CIRCUIT BREAKER IN EXISTING PANEL 'R2', LOCATED IN EXISTING ELECTRICAL ROOM WITHIN SLUDGE HANDLING BUILDING. 2 NO. 12 AND 1 NO. 12 E.G. - 3/4" C. BREAKER TYPE AND AIC RATING TO MATCH EXISTING.
- ⑭ NEW 8 NO. #14 - 3/4" C TO 'PLC' CABINET, LOCATED IN EXISTING MAIN ELECTRICAL ROOM WITHIN CONTROL BUILDING. STATUS CONDUCTORS FOR THE FOLLOWING CONDITIONS (RUNNING, ALARM, OVERRIDE, INTERRUPT, INTERRUPT).
- ⑮ EXISTING ULTRASONIC LEVEL SENSOR TO BE REMOVED.
- ⑯ FURNISH AND INSTALL NEW WEATHERPROOF LIGHT SWITCH WITH IN-USE COVERPLATE. SEE POLE LIGHTING DETAIL ON DRAWING E5.00.

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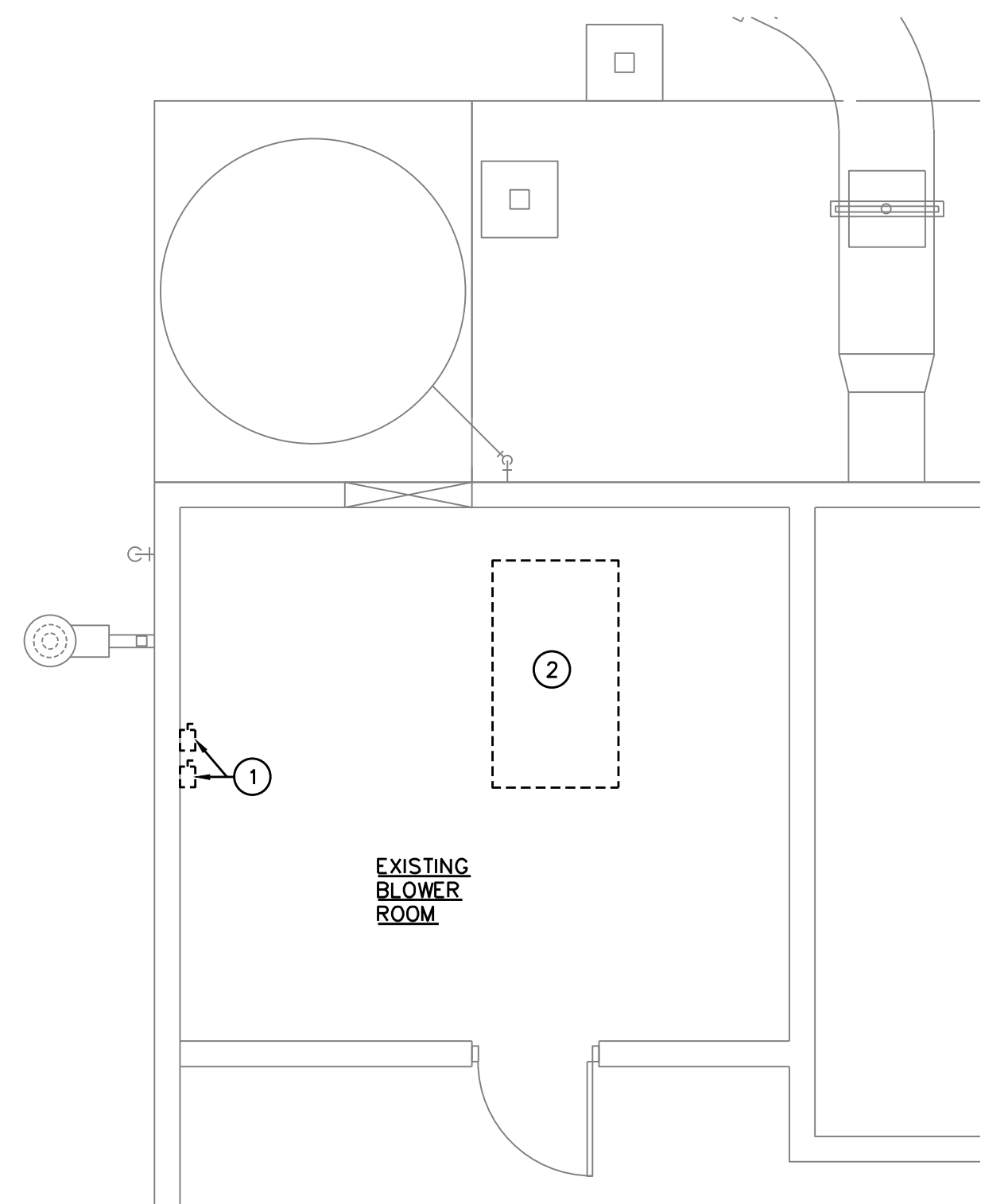
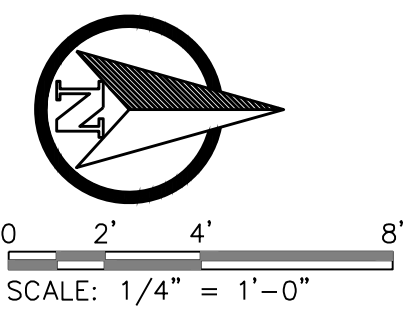
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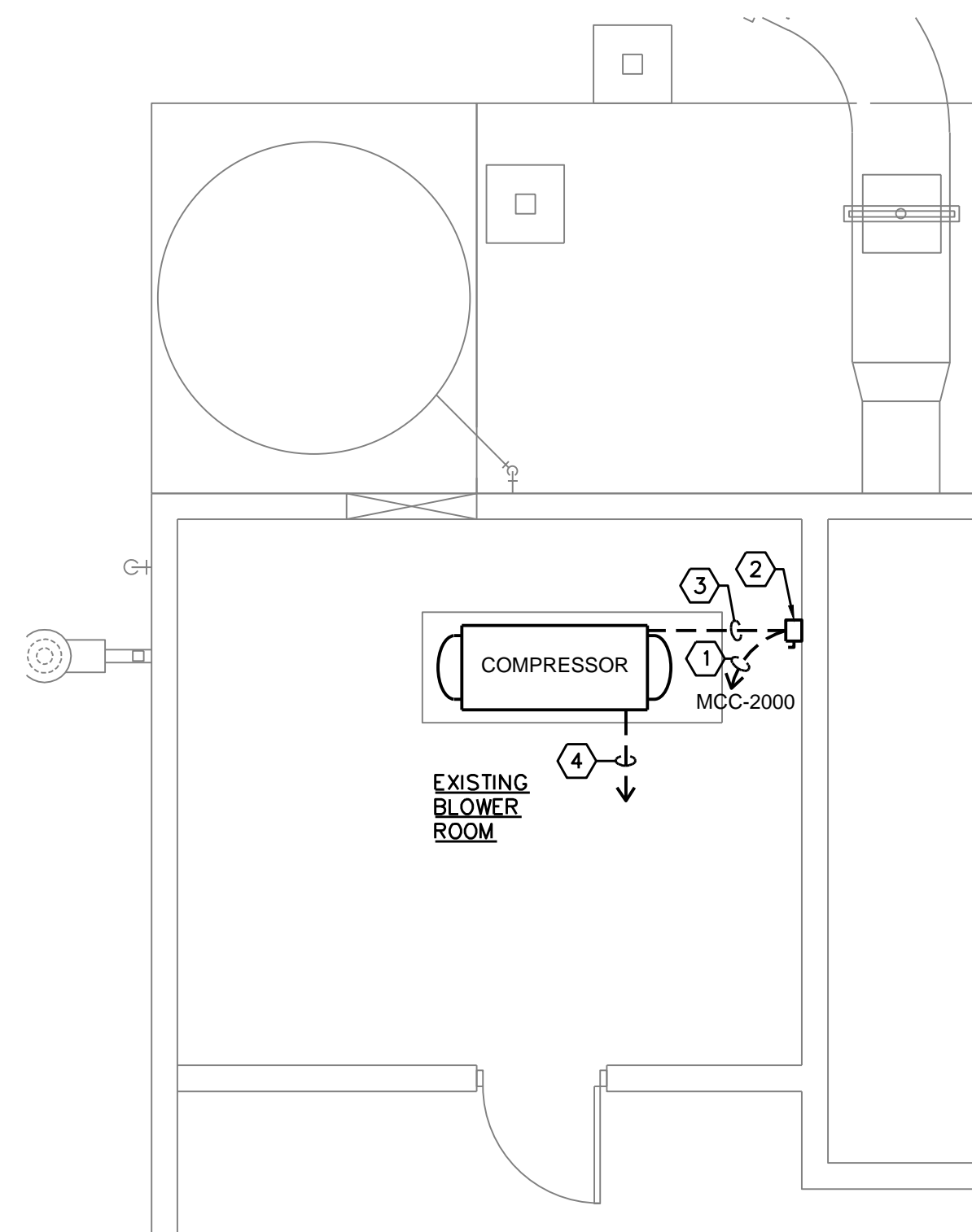
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BLOWER ROOM ELECTRICAL PLAN = DEMOLITION

DEMOLITION NOTES:

- ① EXISTING DISCONNECT SWITCHES TO BE REMOVED.
- ② ABANDONED BLOWER TO BE REMOVED.



BLOWER ROOM ELECTRICAL PLAN – RENOVATION


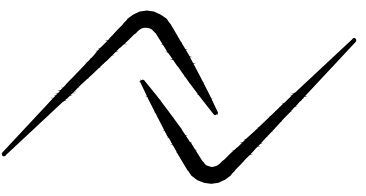
GENERAL NOTES:

- 1. PROVIDE AND INSTALL RIGID ALUMINUM CONDUITS FOR ALL ABOVE GRADE INSTALLATIONS. SEE SPECIFICATION SECTION 16110.
- 2. ALL ABOVE GRADE BOXES, FITTINGS AND COVER PLATES TO BE CAST ALUMINUM. SEE SPECIFICATION SECTION 16143.

DRAWING NOTES:

- ① SEE POWER ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES.
- ② SEE POWER ONE-LINE DIAGRAM FOR DISCONNECT SWITCH SIZING.
- ③ NEW 3 NO. 10 AND 1 NO. 10 E.G. – 3/4" C.
- ④ NEW 4 NO. #14 – 3/4" C TO 'PLC' CABINET, LOCATED IN EXISTING MAIN ELECTRICAL ROOM WITHIN CONTROL BUILDING. STATUS CONDUCTORS FOR THE FOLLOWING CONDITIONS (RUNNING, FAULT).

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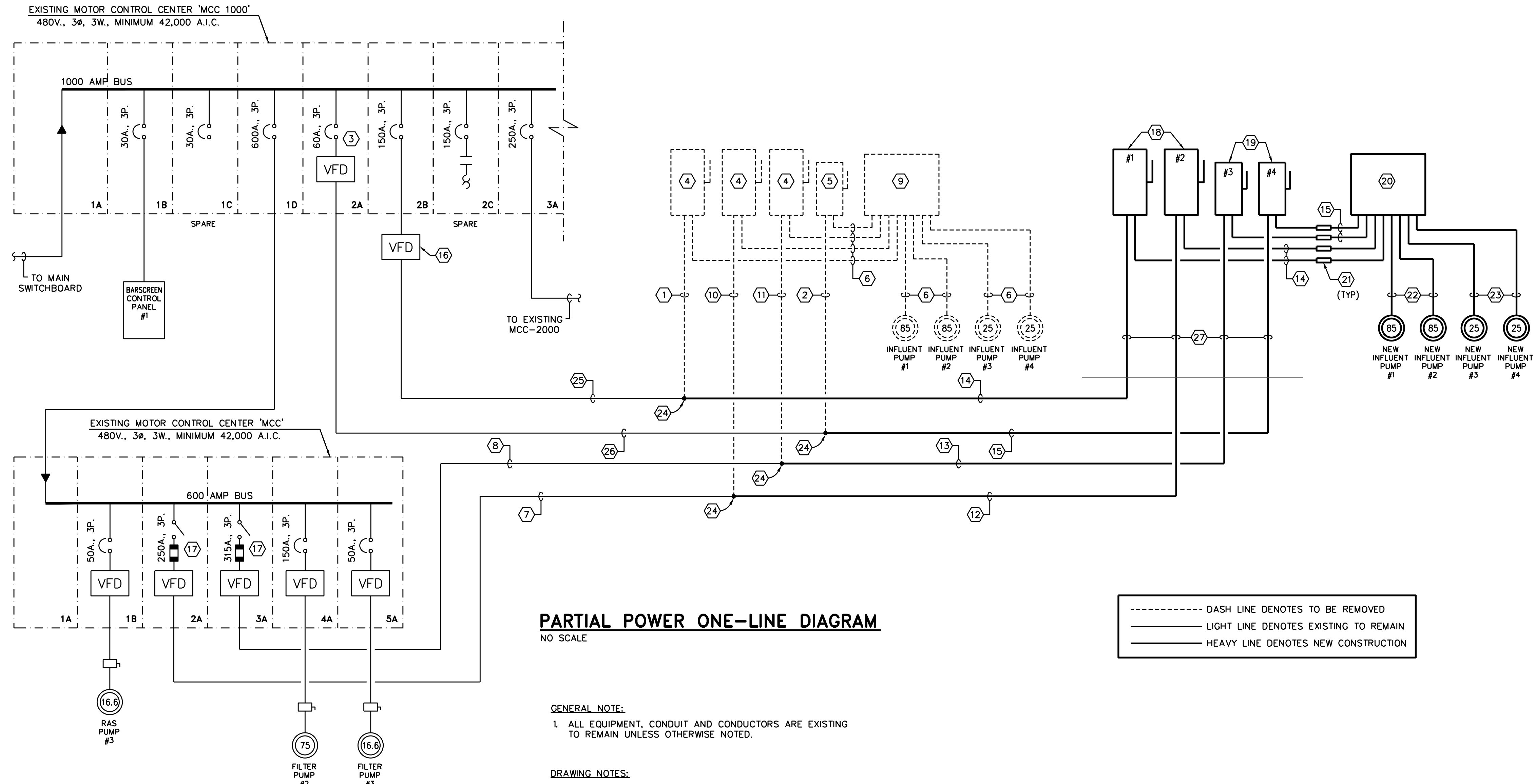
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EAST WRF INFLUENT PUMP STATION
REHABILITATION PROJECT
ELECTRICAL PLAN – SLUDGE HANDLING BLDG.



PARTIAL POWER ONE-LINE DIAGRAM
NO SCALE

----- DASH LINE DENOTES TO BE REMOVED
 _____ LIGHT LINE DENOTES EXISTING TO REMAIN
 _____ HEAVY LINE DENOTES NEW CONSTRUCTION

GENERAL NOTE:

1. ALL EQUIPMENT, CONDUIT AND CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

DRAWING NOTES:

- ① EXISTING 3 NO. 1 AND 1 NO. 6 E.G. - 1 1/2" C. TO BE REMOVED.
- ② EXISTING 3 NO. 6 AND 1 NO. 8 E.G. - 1" C. TO BE REMOVED.
- ③ EXISTING CIRCUIT BREAKER AND VFD TO REMAIN.
- ④ EXISTING 200A., 3-POLE, NEMA '4X' (316 STAINLESS STEEL) DISCONNECT SWITCH TO BE REMOVED.
- ⑤ EXISTING 60A., 3-POLE, NEMA '4X' (316 STAINLESS STEEL) DISCONNECT SWITCH TO BE REMOVED.
- ⑥ EXISTING CONDUIT AND WIRE TO BE REMOVED.
- ⑦ REMOVE 3 NO. 1 AND 1 NO. 6 E.G. AND REPLACE WITH NEW 3 NO. 1 AND 1 NO. 6 E.G. IN EXISTING 2" C.
- ⑧ REMOVE 3 NO. 6 AND 1 NO. 8 E.G. AND REPLACE WITH NEW 3 NO. 6 AND 1 NO. 8 E.G. IN EXISTING 2" C.
- ⑨ EXISTING TERMINATION/JUNCTION BOX TO BE REMOVED.
- ⑩ EXISTING 3 NO. 1 AND 1 NO. 6 E.G. - 2" C. TO BE REMOVED.
- ⑪ EXISTING 3 NO. 6 AND 1 NO. 8 E.G. - 2" C. TO BE REMOVED.
- ⑫ NEW 3 NO. 1 AND 1 NO. 6 E.G. IN NEW 2" C.
- ⑬ NEW 3 NO. 6 AND 1 NO. 8 E.G. IN NEW 2" C.
- ⑭ NEW 3 NO. 1 AND 1 NO. 6 E.G. IN NEW 2" C.
- ⑮ NEW 3 NO. 6 AND 1 NO. 8 E.G. IN NEW 1" C.
- ⑯ EXISTING VFD TO REMAIN.
- ⑰ EXISTING DISCONNECT SWITCH, FUSE & VFD TO REMAIN.
- ⑱ NEW 200A., 3-POLE, NEMA '4X' (316 STAINLESS STEEL) DISCONNECT SWITCH FOR PUMPS #1 & #2.
- ⑲ NEW 60A., 3-POLE, NEMA '4X' (316 STAINLESS STEEL) DISCONNECT SWITCH FOR PUMPS #3 & #4.
- ⑳ NEW TERMINATION/JUNCTION BOX.
- ㉑ NEW SEAL-OFF FITTING.
- ㉒ NEW 3 NO. 1 AND 1 NO. 6 E.G. SUBMERSIBLE CABLE INCLUDED WITH PUMP.
- ㉓ NEW 3 NO. 6 AND 1 NO. 8 E.G. SUBMERSIBLE CABLE INCLUDED WITH PUMP.
- ㉔ CONNECT NEW CONDUIT TO EXISTING. NEW CONDUIT & CONDUCTORS SHALL MATCH EXISTING.
- ㉕ REMOVE 3 NO. 1 AND 1 NO. 6 E.G. AND REPLACE WITH NEW 3 NO. 1 AND 1 NO. 6 E.G. IN EXISTING 1 1/2" C.
- ㉖ REMOVE 3 NO. 6 AND 1 NO. 8 E.G. AND REPLACE WITH NEW 3 NO. 6 AND 1 NO. 8 E.G. IN EXISTING 1" C.
- ㉗ PROVIDE ALUMINUM CONDUIT ABOVE GRADE. TYPICAL FOR EACH PUMP CIRCUIT.

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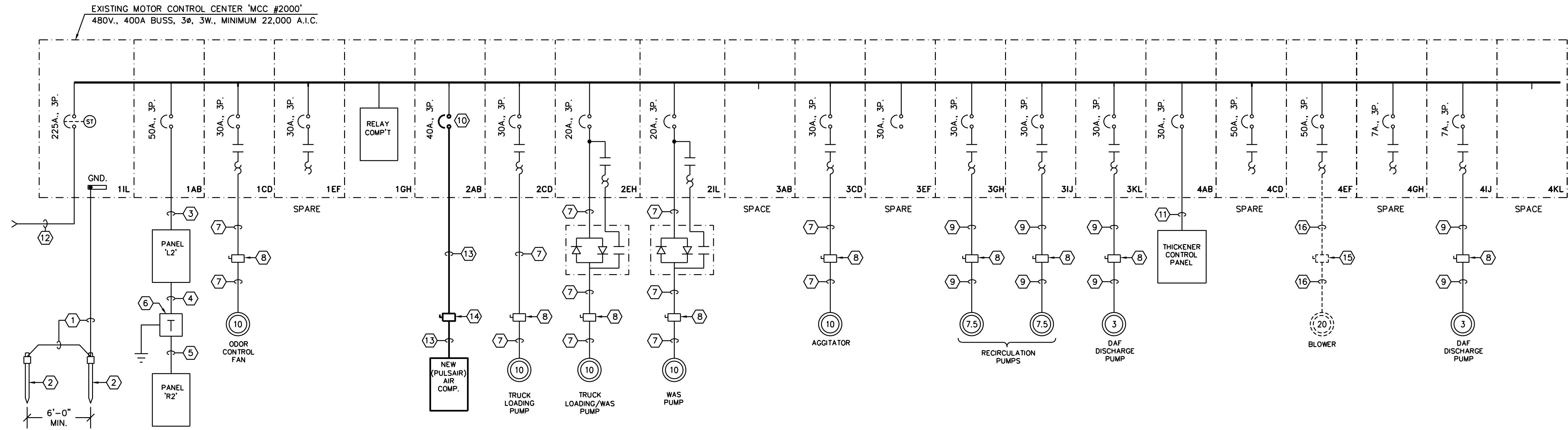


EAST WRF INFLUENT PUMP STATION
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PARTIAL POWER ONE-LINE DIAGRAM

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POWER ONE-LINE DIAGRAM (MCC-2000)
NOT TO SCALE

DRAWING NOTES:

- 1 EXISTING GROUND CONDUCTOR TO REMAIN.
- 2 EXISTING GROUND ROD TO REMAIN.
- 3 EXISTING 3 NO. 8 AND 1 NO. 10 E.G. - 3/4" C. TO REMAIN.
- 4 EXISTING 2 NO. 8 AND 1 NO. 10 E.G. - 3/4" C. TO REMAIN.
- 5 EXISTING 3 NO. 4 AND 1 NO. 6 E.G. - 1" C. TO REMAIN.
- 6 EXISTING 15KVA (480-120/240V., 1Ø, 3W) DRY TYPE TRANSFORMER TO REMAIN.
- 7 EXISTING 3 NO. 10 AND 1 NO. 12 E.G. - 3/4" C. TO REMAIN.
- 8 EXISTING DISCONNECT SWITCH TO REMAIN.
- 9 EXISTING 3 NO. 12 AND 1 NO. 12 - 3/4" C. TO REMAIN.
- 10 REMOVE EXISTING 50A., 3-POLE CIRCUIT BREAKER AND REPLACE WITH NEW CIRCUIT BREAKER SHOWN. CIRCUIT BREAKER TO MATCH 65,000 A.I.C. RATING.
- 11 EXISTING 3 NO. 8 AND 1 NO. 10 E.G. - 3/4" C. TO REMAIN.
- 12 FED FROM EXISTING MCC-1000, LOCATED IN MAIN ELECTRICAL ROOM WITHIN SLUDGE HANDLING BUILDING.
- 13 NEW 3 NO. 10 AND 1 NO. 10 E.G. - 3/4" C.
- 14 NEW 60A., 3-POLE, NEMA '4X' (316 STAINLESS STEEL) DISCONNECT SWITCH.
- 15 EXISTING DISCONNECT SWITCH TO BE REMOVED.
- 16 EXISTING CONDUIT AND CONDUCTORS TO BE REMOVED.

LINE LEGEND

	NEW CONSTRUCTION
	EXISTING TO REMAIN
	TO BE REMOVED

GENERAL NOTE:

1. EXISTING MOTOR CONTROL CENTER ONE-LINE DIAGRAMS SHOWN ABOVE HAS NOT BEEN FIELD VERIFIED FOR ACCURACY. MCC CUBICLE CHANGES MADE TO MCC ARE NOT DEPICTED ABOVE. ACTUAL LOCATION OF LOAD MAY BE DIFFERENT THAN SHOWN ABOVE; TOTAL MCC LOAD IS ACCURATE TO DATE.

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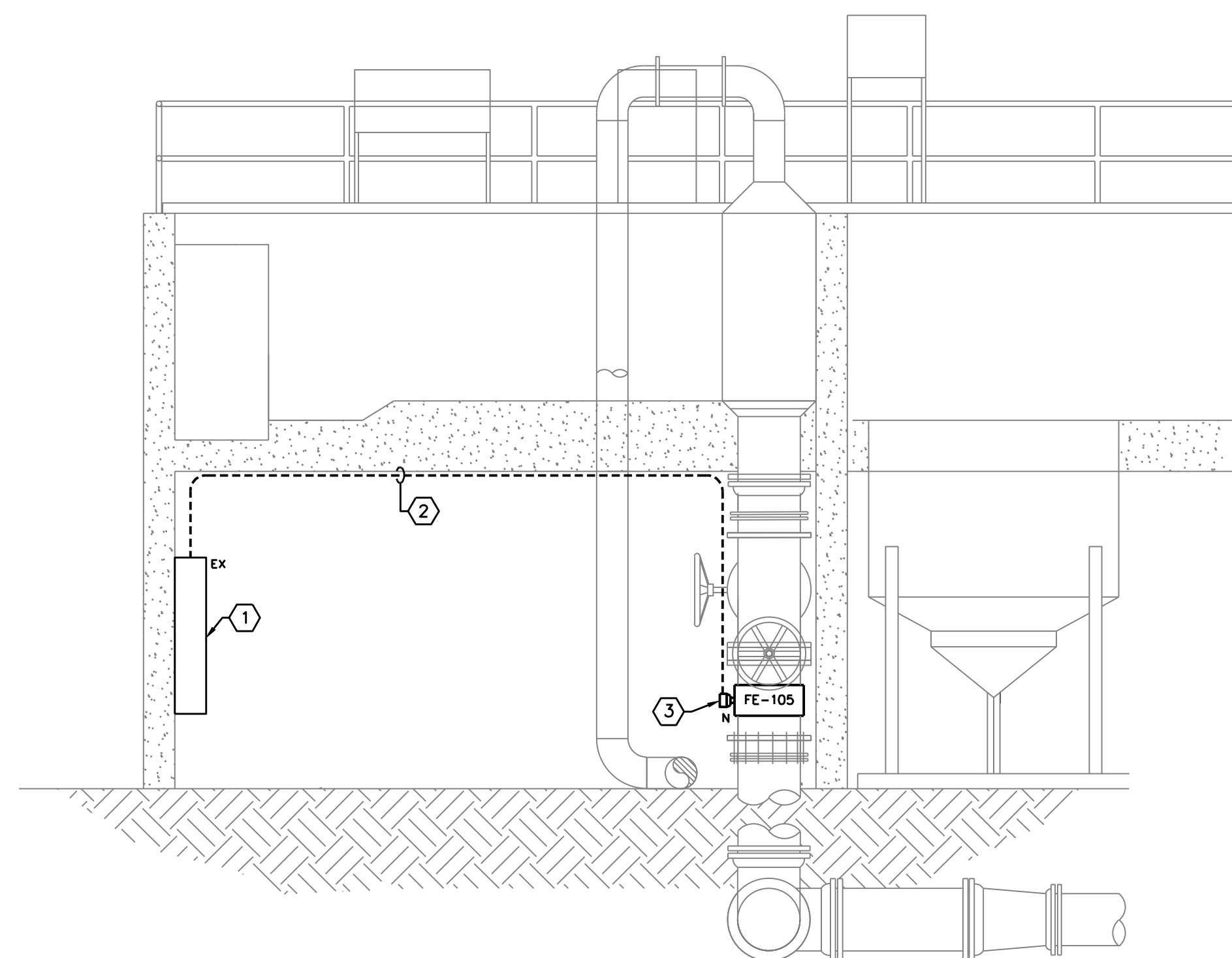
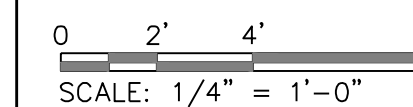
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DWG NAME	6652-E4.01.dwg	FIELD BOOK:		SURVEYED BY:		SCALE:	N/A
CONTRACT NO.:		DATE DRAWN:	9/29/2023	DRAWN BY:	RFB	HORIZ:	AS SHOWN
JOB NO.:	2018-1721-01	DESIGNED BY:	RFB	CHECKED BY:	PSC	SHEET NO.:	34 OF 40
APPROVED BY:		DATE:					



PARTIAL INFLUENT ELECTRICAL LAYOUT

DRAWING NOTES:

- ① EXISTING PANEL TO REMAIN. REMOVE AND REPLACE EXISTING FLOW INDICATING TRANSMITTER WITHIN EXISTING PANEL. REUSE EXISTING 120 VOLT POWER AND CONTROL WIRING.
- ② EXISTING CONDUIT AND CONDUCTOR TO BE REMOVED AND REPLACED WITH NEW MANUFACTURER SUPPLIED CABLE IN 3/4\".
- ③ EXISTING FLOW METER TO BE REMOVED AND REPLACED WITH NEW.

P:\1-6699\6652\elec\6652-E6.00.dwg, September 29, 2023 10:39 AM, RICHARD BARBEITO

<p>CARASTRO & ASSOCIATES</p> <p>NOW BSA LIFESTRUCTURES</p> <p>BSA LifeStructures 2609 W. De Leon St. Tampa FL. 33609 ph 813.874.9494 Reg # - 4968</p>	<p>4921 Memorial Highway One Memorial Center, Suite 300 Tampa, Florida 33634 Phone: (813) 880-8881 www.Ardurra.com License #2610</p> <p>COLLABORATE. INNOVATE. CREATE.</p>		
DWG NAME: 6652-E6.00.dwg CONTRACT NO.: JOB NO.: 2018-1721-01	FIELD BOOK: DATE DRAWN: 9/29/2023 DESIGNED BY: RFB	SURVEYED BY: DRAWN BY: RFB CHECKED BY: PSC	SCALE: N/A HORIZ: AS SHOWN SHEET NO.: 36 OF 40
APPROVED BY: _____		DATE: _____	

RECORD DRAWINGS	1	BID DOCUMENTS	PSC	9/29/2023
SURVEYED BY:	DRAWN BY:			
REVIEWED BY:				
PROJECT ENGINEER	DATE			
APPROVED BY:				
	REVISION	BY	DATE	

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756



EAST WRF INFLUENT PUMP STATION
REHABILITATION PROJECT
PARTIAL INFLUENT ELECTRICAL LAYOUT