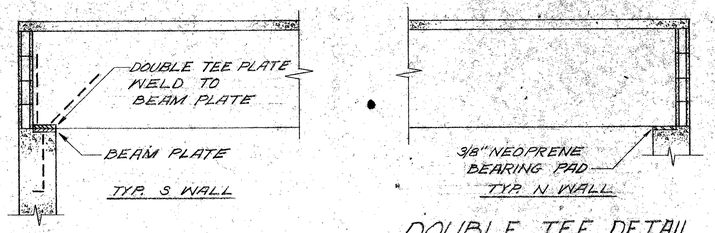
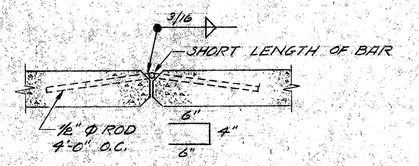
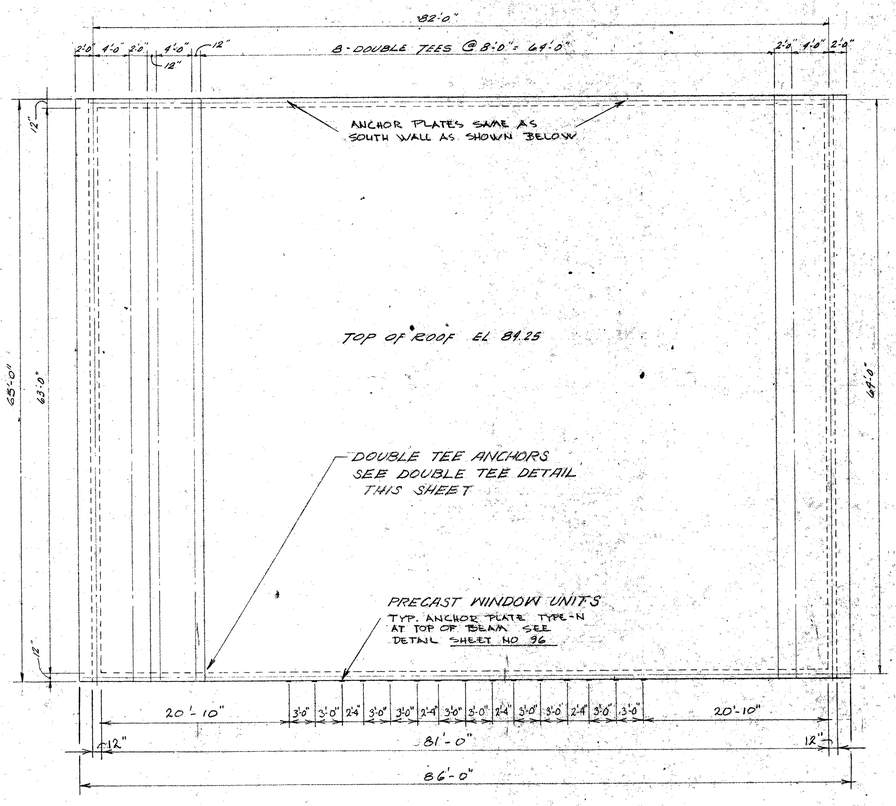


DOUBLE TEE DETAIL

SCALE: NONE

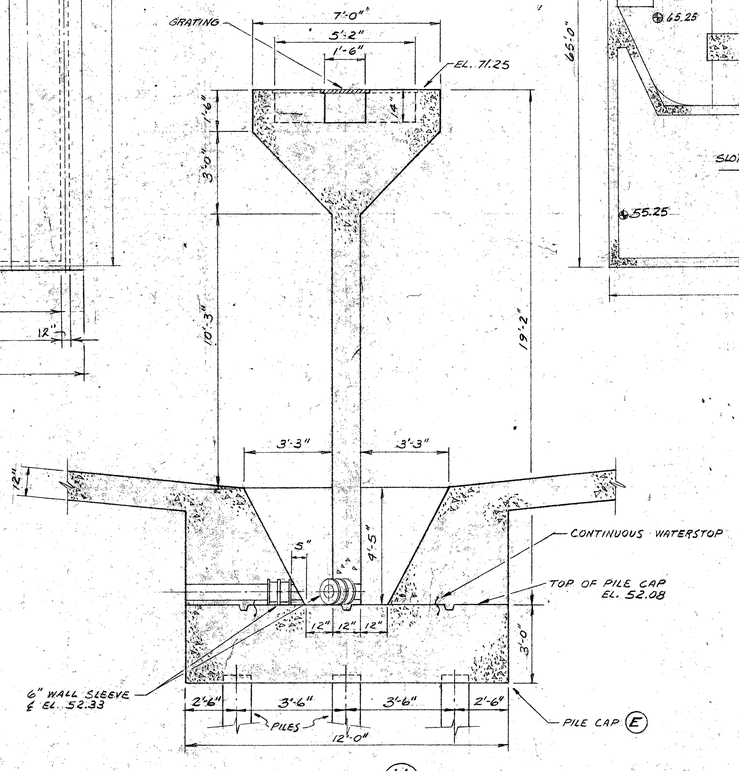


FLANGE DETAIL



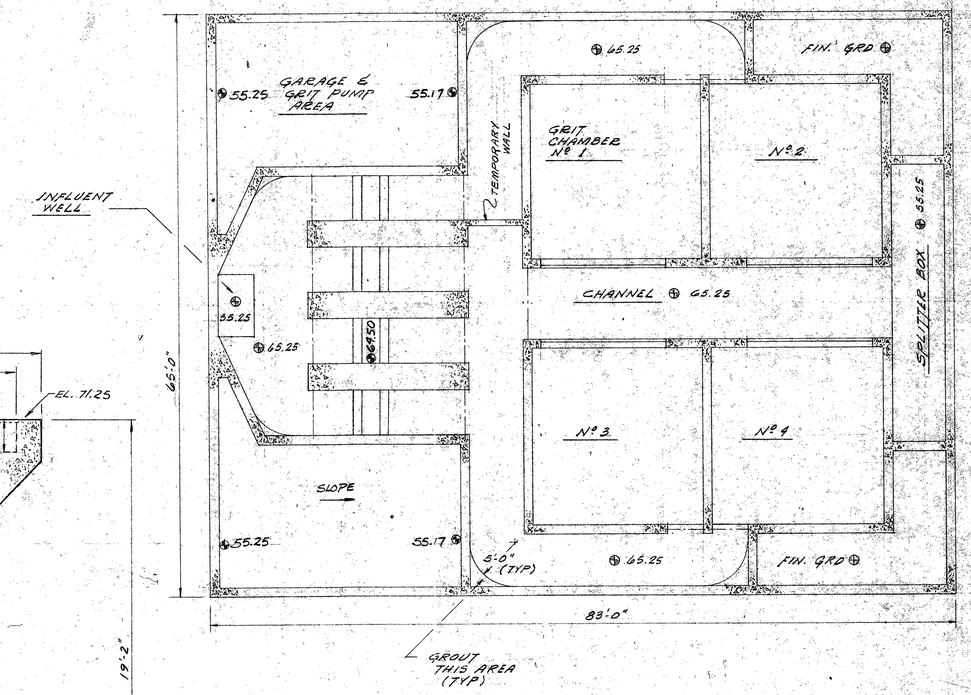
PLAN - ROOF EL. 84.25

SCALE: 1/8" = 1'-0"



SECTION H 100 99

SCALE: 3/8" = 1'-0"



PLAN - EL. 66.00

SCALE: 1/8" = 1'-0"

SCALE IN FEET
SCALE: 1/8" = 1'-0"

SCALE IN FEET
SCALE: 3/8" = 1'-0"

REV. NO	DATE	REVISION	BY	CHECKED
				DESIGNED CWR
				DRAWN RAW
				CHECKED CWR

SUBMITTED: 8/24/76
BRILEY, WILD & ASSOCIATES
APPROVED:

CHARLES S. RICHARDSON CERTIFICATE No. 7900 STATE OF FLORIDA REGISTERED ENGINEER

Briley, Wild & Associates
CONSULTING ENGINEERS
DAYTONA BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
INFLUENT STRUCTURE - PLANS & SECTIONS
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: AS SHOWN
SHEET NO. 100 OF 142
PROJ. NO. 7236-2A
FILE NO. S-8471

GRIT CHAMBER Nº 1

GRIT CHAMBER Nº 2

SECTION (D) 101/99
SCALE 3/8" = 1'-0"

SECTION (A) 101/99
SCALE 1/4" = 1'-0"

DETAIL
ANCHOR PLATE TYPE - N
ANCHOR PLATE TYPE - P

Note: TYPICAL REINF. FOR ALL OUTER GRIT CHAMBER WALLS

SEE DETAIL AND SCHEDULE FOR ALL PILE CAPS SHT. Nº 98

SEE DETAIL FOR THIMBLE, 42" R.C.P., AND SLUICE GATE INSTL. SHT. 44

SEE SECT. E FOR SLAB REINF.

SEE SECT. E FOR REINF.

SCALE IN FEET
SCALE: 1/4" = 1'-0"

SCALE IN FEET
SCALE: 3/8" = 1'-0"

REV. NO	DATE	REVISION	BY	CHECKED
				DESIGNED CLR
				DRAWN GH
				CHECKED CLR

SUBMITTED: C.L. Rubendam 3/24/76 BRILEY, WILD & ASSOCIATES
APPROVED:

HARRY E. WILD No. 11032 STATE OF FLORIDA REGISTERED ENGINEER

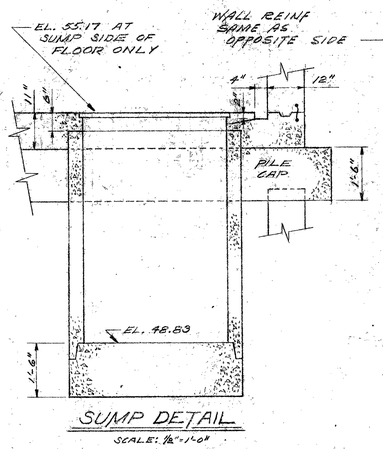
CERTIFICATE OF AUTHORIZATION STATE OF FLORIDA REGISTERED ENGINEER

Briley, Wild & Associates
CONSULTING ENGINEERS
DAYTONA BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
INFLUENT STRUCTURE - SECTIONS
CLEARWATER, FLORIDA

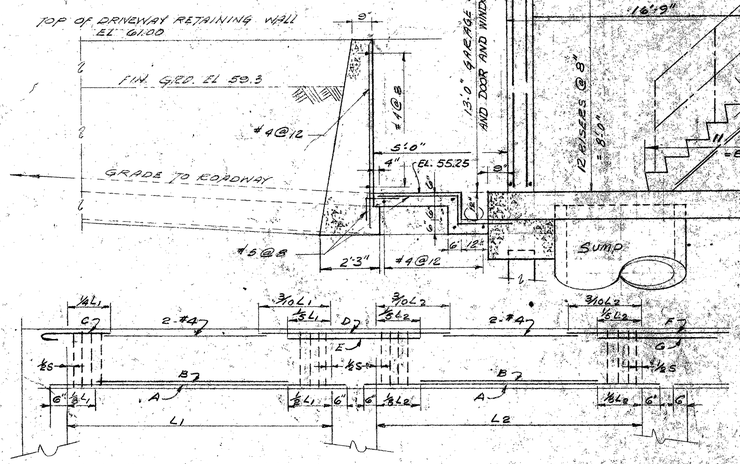
DATE: DEC. 1975
SCALE: AS SHOWN
SHEET NO. 101 OF 142

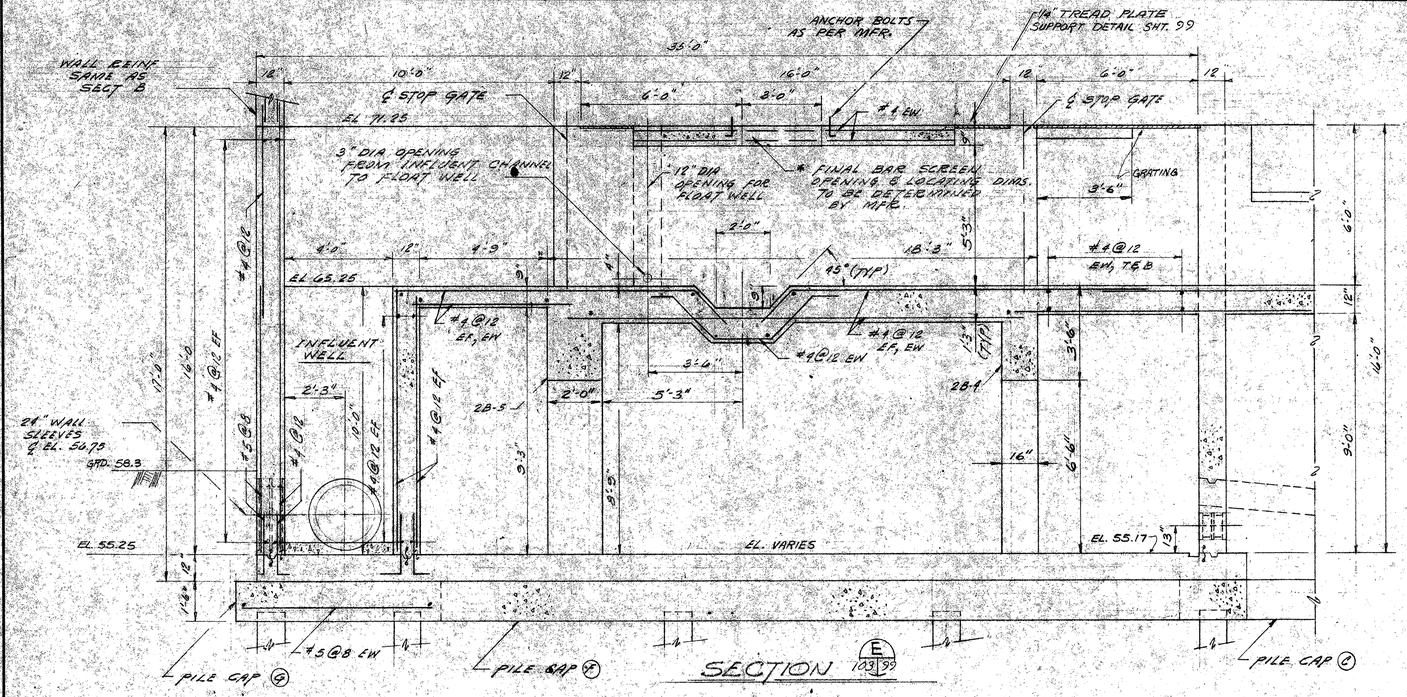
PROJ. NO. 7236 - 2A
FILE NO. S-847



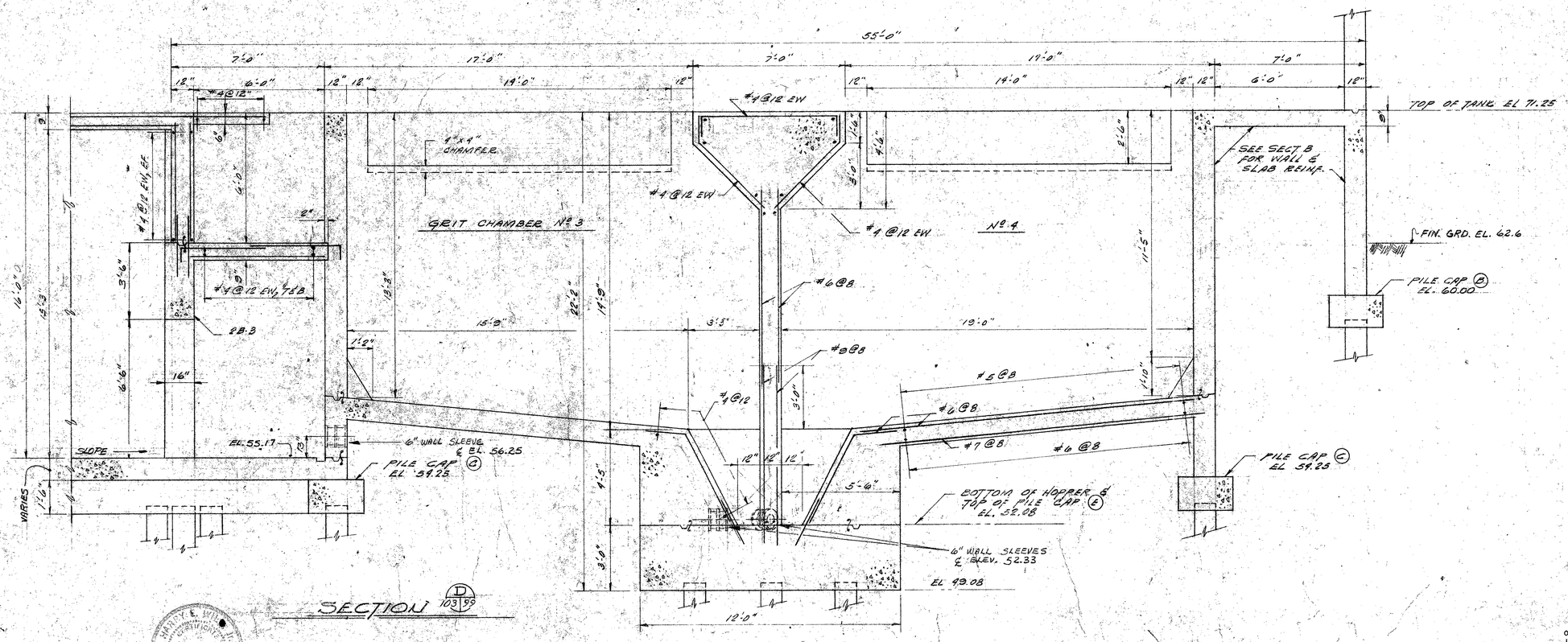
SUMP DETAIL

SCALE: ½"=1'-0"





SECTION (E) 103 99



SECTION (D) 103 99

SCALE IN FEET
SCALE: 3/8" = 1'-0"

REV. NO.	DATE	REVISION	BY

DESIGNED: RJP
DRAWN: BH
CHECKED: RJP

SUBMITTED: R. Richardson 9-24-76
RILEY, WILD & ASSOCIATES
APPROVED:

HARVEY E. WILD No. 11542 STATE OF FLORIDA REGISTERED ENGINEER

CHARLES S. RICHARDSON CERTIFICATE No. 22324 STATE OF FLORIDA REGISTERED ENGINEER

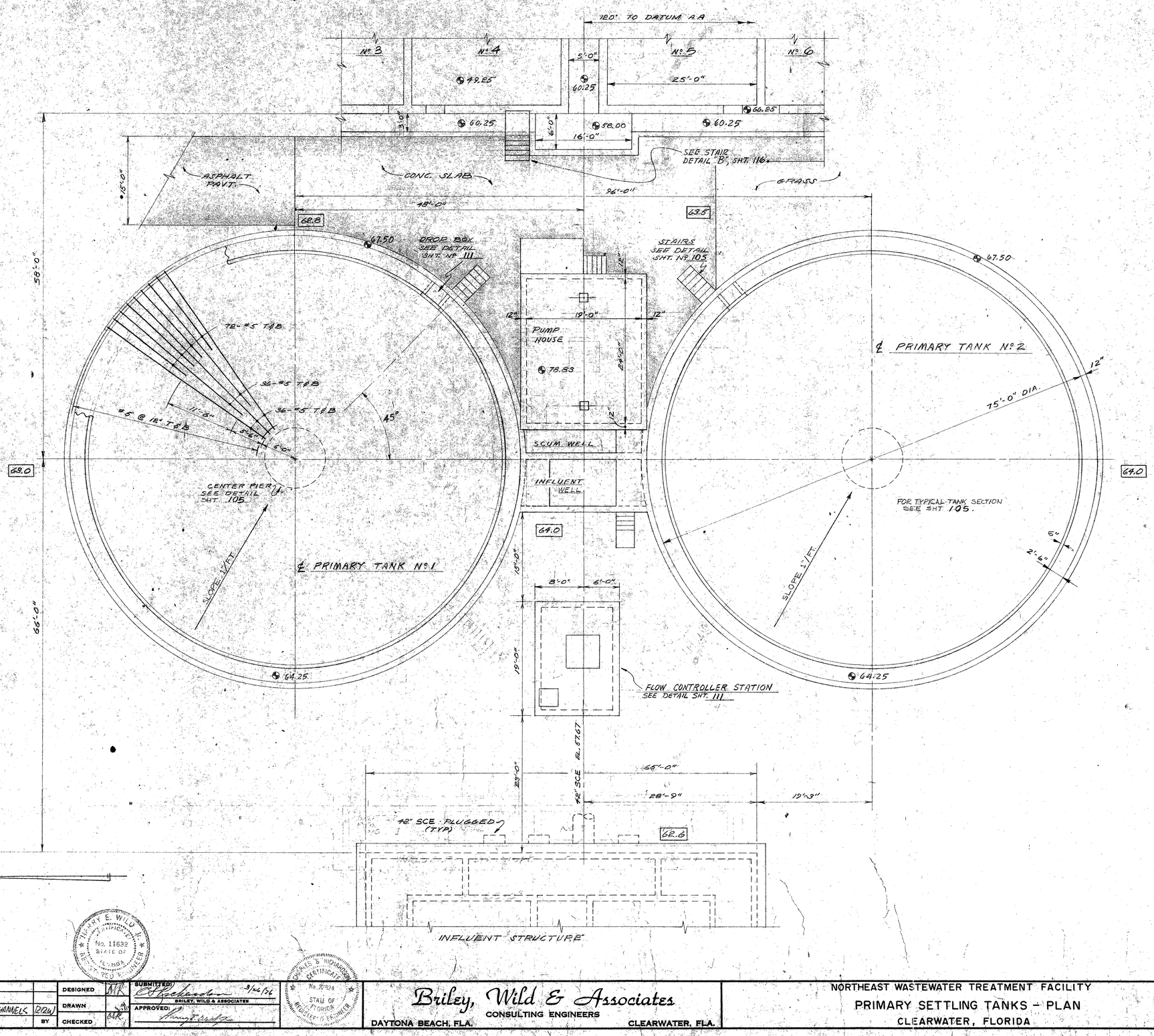
Briley, Wild & Associates
CONSULTING ENGINEERS
DAYTONA BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
INFLUENT STRUCTURE - SECTIONS
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: 3/8" = 1'-0"
SHEET NO. 103 OF 142

PROJ. NO. 7236-2A
FILE NO. S-8474

AERATION TANKS



HARRY E. WILD II — No. 11632 — STATE OF FLORIDA — REGISTERED ENGINEER

JAMES S. RICHARDSON — No. 21924 — STATE OF FLORIDA — REGISTERED ENGINEER

SCALE IN FEET: 0 8 16 24
SCALE: 1/8" = 1'-0"

REV. NO.	DATE	REVISION	BY
1	3-76	CH6D AER. TANK NOS.-LENGTHEN CHANNELS	RJW

DESIGNED MK
DRAWN
CHECKED MK

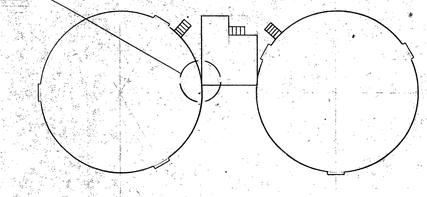
SUBMITTED: 3/26/76
BRILEY, WILD & ASSOCIATES
APPROVED:

Briley, Wild & Associates
CONSULTING ENGINEERS
DAYTONA BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
PRIMARY SETTLING TANKS - PLAN
CLEARWATER, FLORIDA

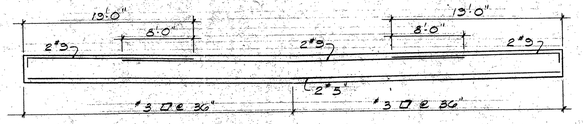
DATE: DEC. 1975
SCALE: 1/8" = 1'-0"
SHEET NO. 104 OF 142
PROJ. NO. 7236-2A
FILE NO. S-8475

DET. & WALL & BLDG. FOR POST-TENSIONING
ALTERNATE SAME AS FOR REBAR SCHEME.



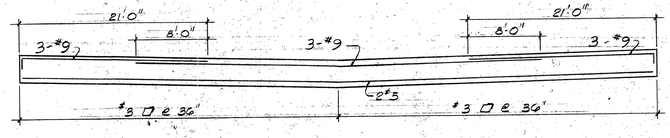
KEY PLAN

ALL DETAILS ARE THE SAME AS ON SHEET #104 (U.N.O.)



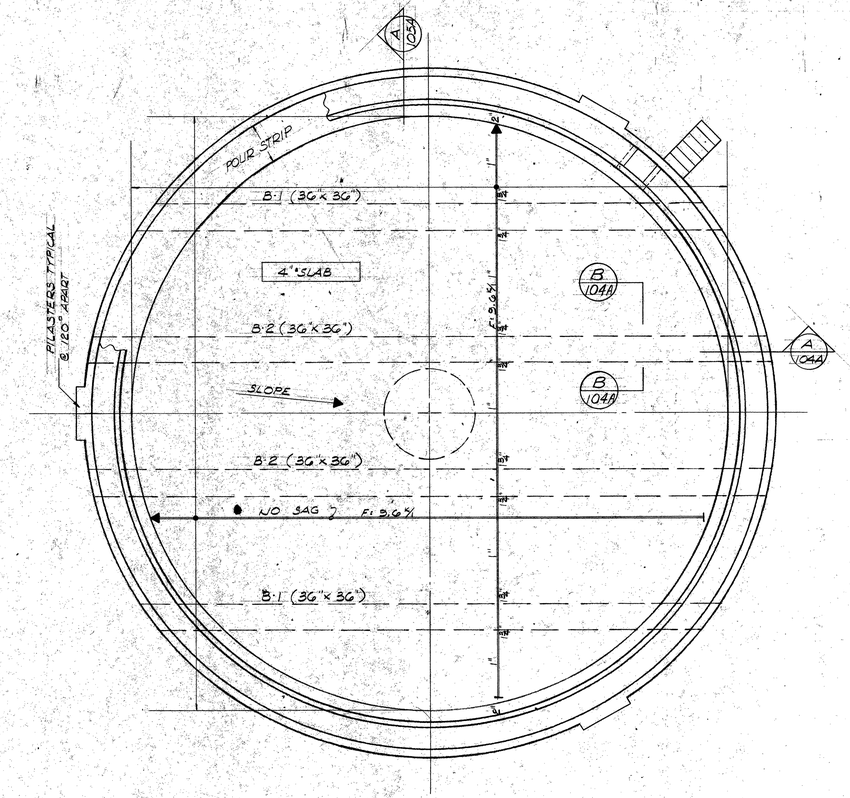
B-1 DETAIL

SCALE: 1/8" = 1'-0"



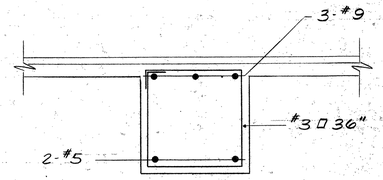
B-2 DETAIL

SCALE: 1/8" = 1'-0"



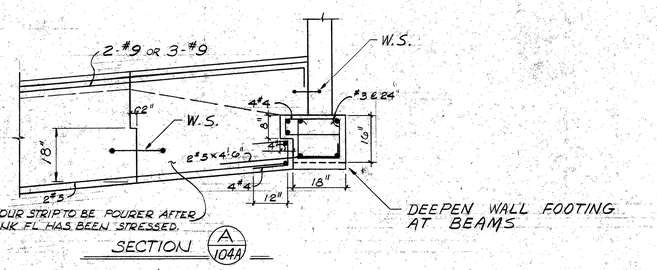
PRIMARY SETTLING TANK FLOOR PLAN

SCALE: 1/8" = 1'-0"



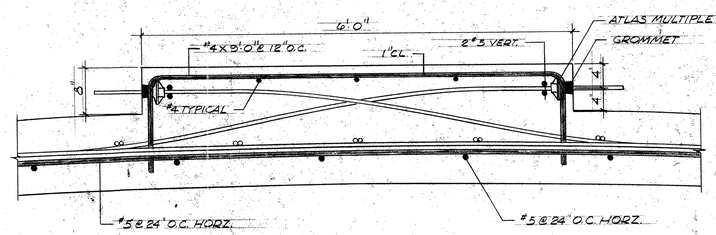
SECTION B 104A

SCALE: 1/2" = 1'-0"



SECTION A 104A

SCALE: 1/2" = 1'-0"



TYPICAL SECTION @ PILASTERS

SCALE: 1" = 1'-0"

FOR BALANCE OF PLAN SEE SHEET #104.

0 1 2 3
SCALE IN FEET
SCALE: 1" = 1'-0"

0 2 4 6
SCALE IN FEET
SCALE: 1/2" = 1'-0"

0 8 16 24
SCALE IN FEET
SCALE: 1/8" = 1'-0"

'ALTERNATE #1'

REV. NO.	DATE	REVISION	BY
1	3-76	CORRECTIONS AS PER CSR	RRW

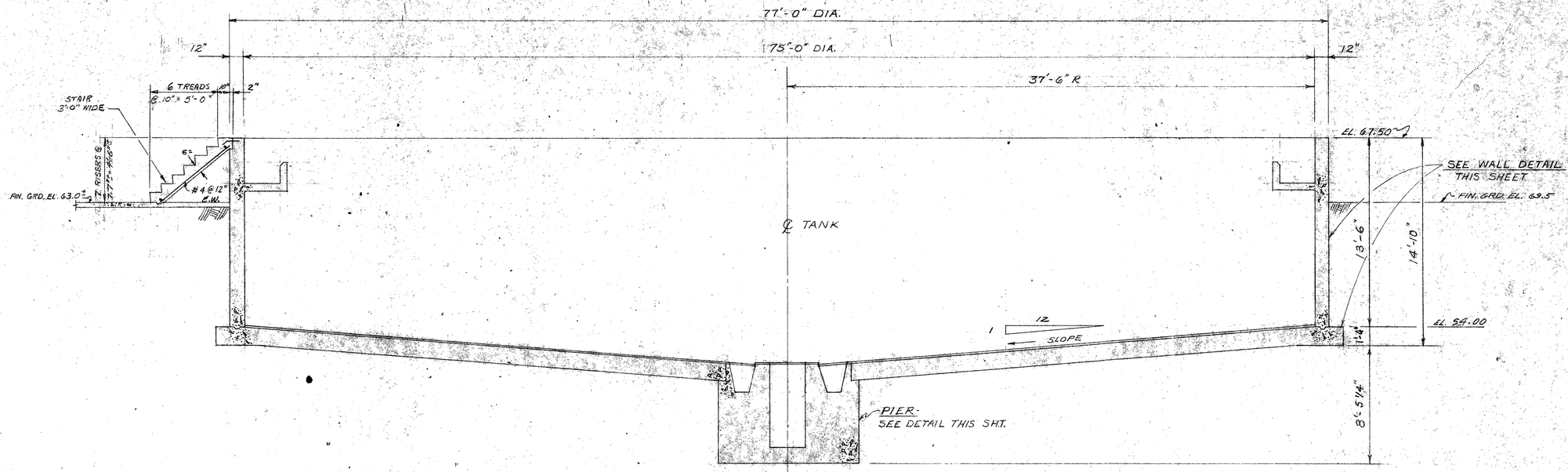
DESIGNED
DRAWN BRW
CHECKED

SUBMITTED: BRILEY, WILD & ASSOCIATES
PRINCIPAL
PROJECT ENGINEER 3/24/76
APPROVED:

Briley, Wild & Associates
CONSULTING ENGINEERS
ORMOND BEACH, FLA. CLEARWATER, FLA.

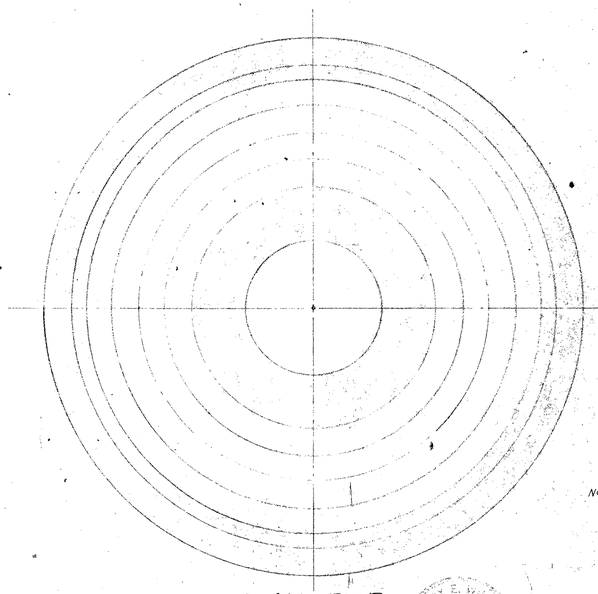
NORTHEAST WASTEWATER TREATMENT FACILITY
PRIMARY SETTLING TANKS (PRESTRESSED) — DETAILS
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: AS SHOWN
SHEET NO. 104 A OF 142
PROJ. NO. 7236-21
FILE NO. S-8475 A

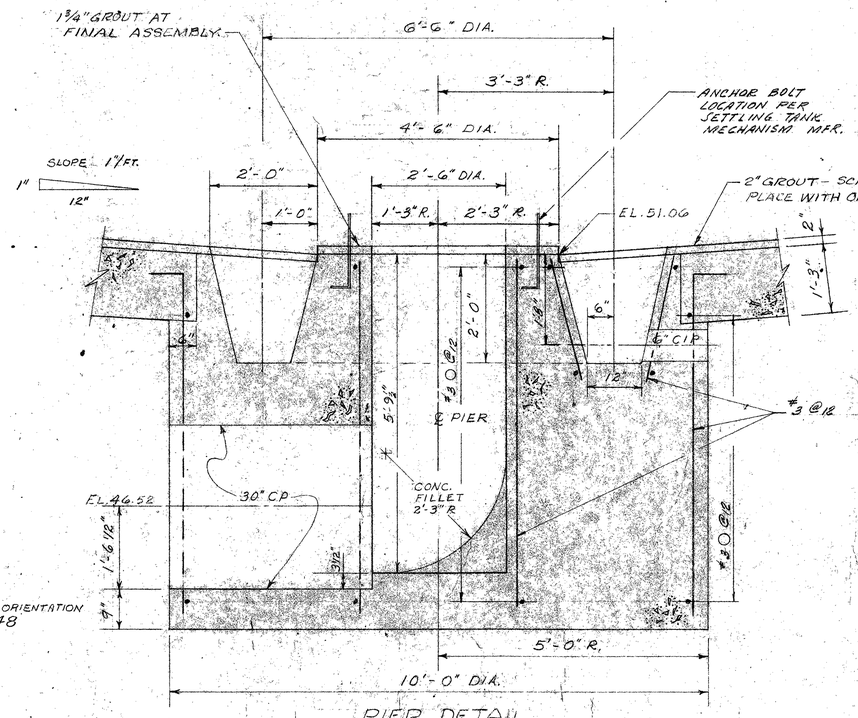


TYPICAL SECTION
SCALE: 1/4" = 1'-0"

NOTE:
POCKETS OF LOOSE SAND (BORINGS B87 AND B88) AND LOOSE SAND AND CLAY (BORING B58) SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL.

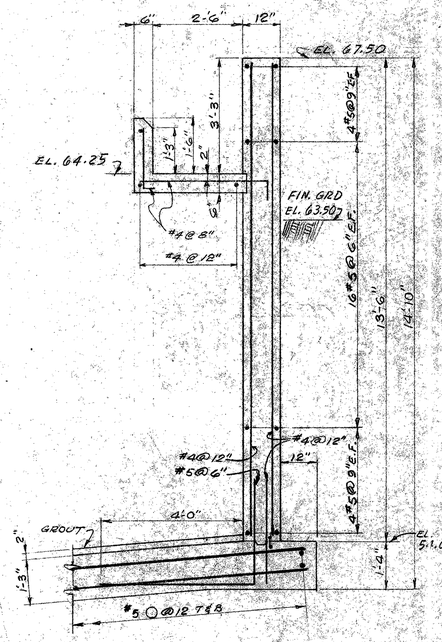


PLAN PIER
SCALE: 3/4" = 1'-0"



NOTE: FOR PIPING ORIENTATION SEE SHT. 48

PIER DETAIL
SCALE: 3/4" = 1'-0"



WALL SECTION
SCALE: 1/2" = 1'-0"

SCALE IN FEET
SCALE: 1/4" = 1'-0"
SCALE IN FEET
SCALE: 3/4" = 1'-0"
SCALE IN FEET
SCALE: 1/2" = 1'-0"

REV. NO.	DATE	REVISION	BY

DESIGNED MAP
DRAWN
CHECKED

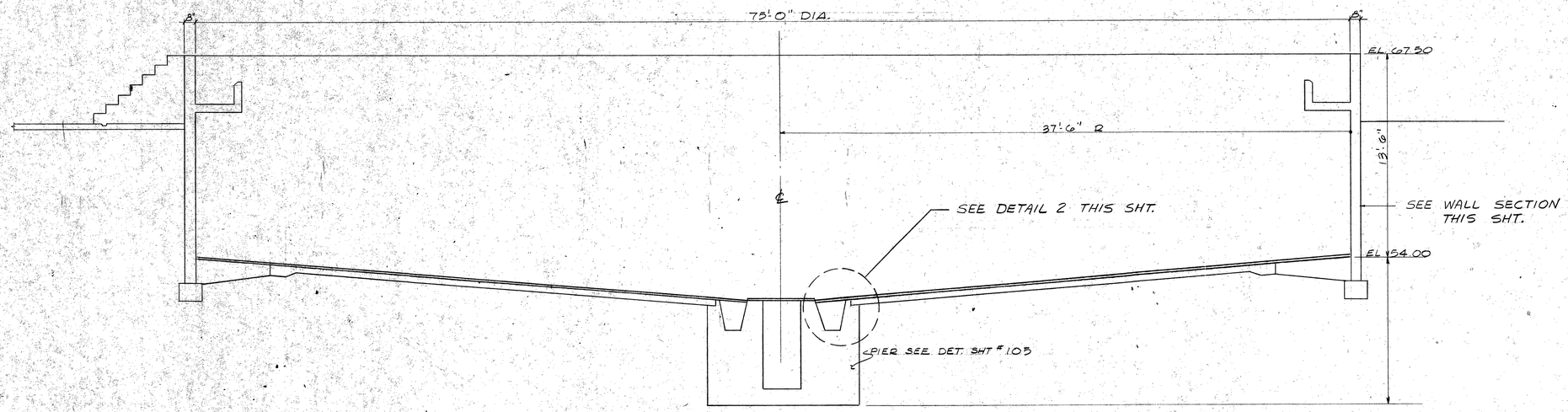
SUBMITTED: 3/24/76
BRILEY, WILD & ASSOCIATES
APPROVED:

STATE OF FLORIDA REGISTERED ENGINEER

Briley, Wild & Associates
CONSULTING ENGINEERS
DAYTONA BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
PRIMARY SETTLING TANKS - SECTION
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: AS SHOWN
SHEET NO. 105 OF 142
PROJ. NO. 7236-11A
FILE NO. S-8476

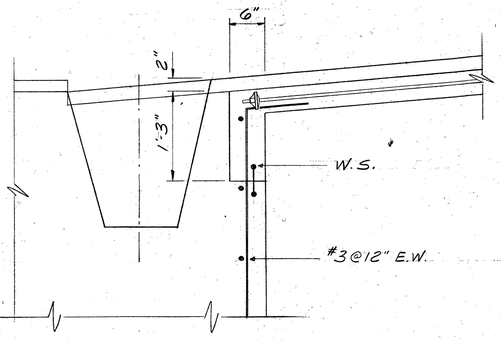


TYP. SECTION

SCALE : 1/4" = 1'-0"

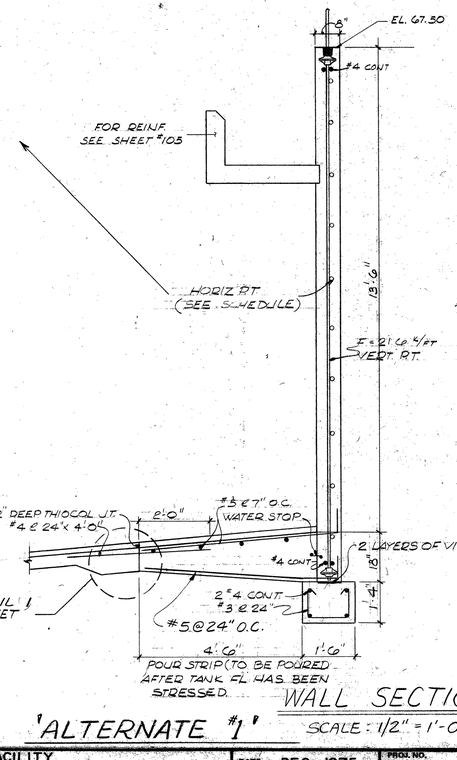
FOR BALANCE OF INFORMATION SEE SHEET #105

HEIGHT OF WALL ABOVE TANK FLOOR	EFFECTIVE HORIZONTAL FORCE
12'-2"	28.5 K/
10'-10"	31.7 K/
9'-6"	34.4 K/
8'-2"	36.3 K/
6'-9"	37.2 K/
5'-5"	37.5 K/
4'-0"	37.5 K/
2'-8"	37.5 K/
1'-4"	37.5 K/
FIN. FL. 0'-0"	37.5 K/



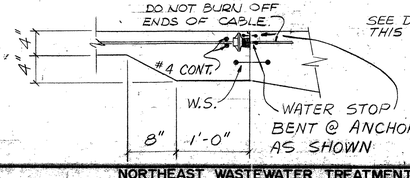
DETAIL 2

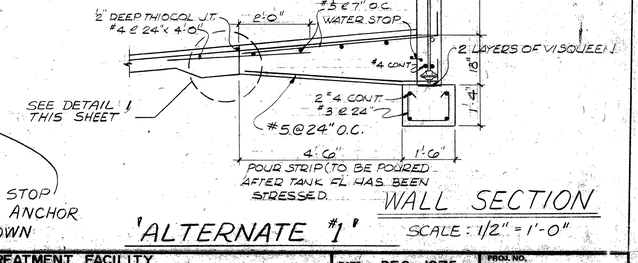
SCALE : 1" = 1'-0"



DETAIL 1

SCALE : 1" = 1'-0"





'ALTERNATE #1'

WALL SECTION

SCALE : 1/2" = 1'-0"

0 1 2 3 — SCALE IN FEET

SCALE : 1" = 1'-0"

0 2 4 6 — SCALE IN FEET

SCALE : 1/2" = 1'-0"

0 4 8 12 — SCALE IN FEET

SCALE : 1/4" = 1'-0"

REV. NO.	DATE	REVISION	BY	CHECKED
1	3-76	CORRECTIONS AS PER CSR	RRW	CSR

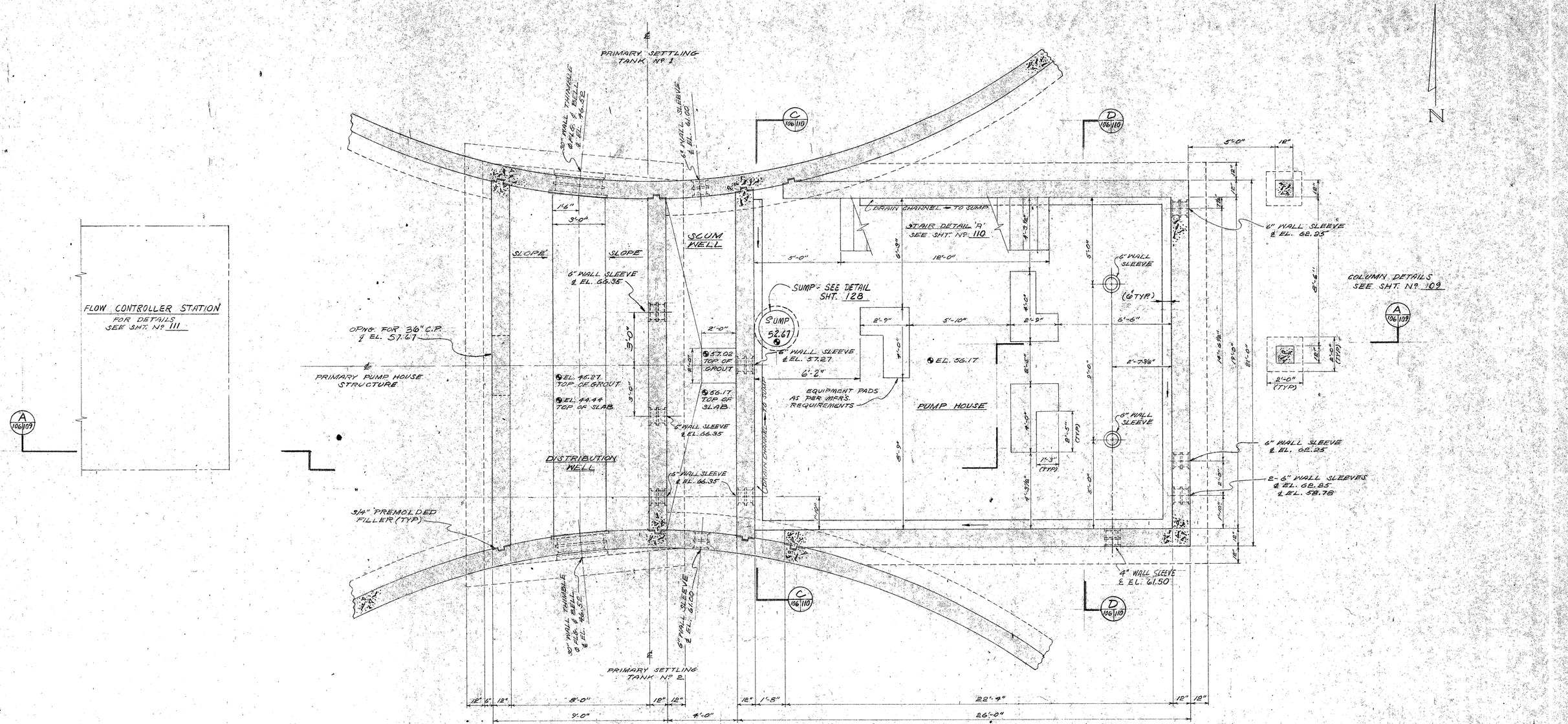
DESIGNED | DRAWN: RRW, ETT | CHECKED: CSR

SUBMITTED: BRILEY, WILD & ASSOCIATES
PRINCIPAL
C.S. Richardson 3/22/76
PROJECT ENGINEER
APPROVED:

Briley, Wild & Associates
CONSULTING ENGINEERS
ORMOND BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
PRIMARY SETTLING TANKS (PRESTRESSED) — SECTIONS
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: AS SHOWN
SHEET NO. 105 A OF 142
PROJ. NO. 7236-2
FILE NO. S-8476



PLAN
BELOW OPERATING PLATFORM LEVEL

SCALE: 3/16" = 1'-0"

SCALE IN FEET
SCALE: 3/8" = 1'-0"

REV. NO	DATE	REVISION	BY	CHECKED
1	3-76	42" TO 36" - MOVED 6" WALL SLEEVE 18" S.	RKW	

DESIGNED: CLK
DRAWN: [illegible]
CHECKED: [illegible]

SUBMITTED: [signature] 3/24/76
BRILEY, WILD & ASSOCIATES
APPROVED:

CHARLES S. RIGHTSON CERTIFICATE No. 20524 STATE OF FLORIDA REGISTERED ENGINEER

Briley, Wild & Associates
CONSULTING ENGINEERS
DAYTONA BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
PRIMARY SETTLING TANKS - DETAILS
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: 3/8"=1'-0"
SHEET NO. 106 OF 142
PROJ. NO. 7236-21
FILE NO. S-8477

N

2 PRIMARY SETTLING TANK

3/4 PREMOLDED JT. FILLER

BEARING ANGLE CAST IN PLACE

GRATING SUPPORT ANGLE SEE DETAIL SHT. 108

GRATING SUPPORT (TYP) SEE DETAIL 108 SHT.

SCUM WELL

44.44 TOP OF SLAB

56.17 TOP OF SLAB

4" (TYP)

GRASS

64.10

FLOW CONTROLLER STATION SEE DETAILS ON SHEET 111

64.17

UP

DISTRIBUTION WELL

BEARING ANGLE (TYP.) SEE DETAIL SHT. 108

67.50 #5 @ 12" BOT. #4 @ 12" TOP

#4 @ 12" TOP

#4 @ 12" BOT.

67.50

12"x12" COL. (TYP) 4-#6 VERT. #3 □ @ 12" 4-#6 DOWELS TO WALL BELOW

UP

SEE STAIR DETAIL "A" SHEET 110

PUMP HOUSE

OPERATING PLATFORM

8"x 3/4"ϕ ANCHOR BOLTS LOCATED AS PER EQUIPT. MFR'S. REQUIREMENTS (TYP.)

EQUIPMENT FOUNDATION PADS AS PER MFR'S REQUIREMENTS

56.17

67.50

63.5±

SEE STAIR DETAIL "B" SHEET 110

#4 @ 12" TOP & BOT.

67.50

OPENING FOR SLUICE GATE INSTALLATION AS PER MFR'S. REQUIREMENTS - 6" ϕ (REF.)

3/4" PREMOLDED JOINT FILLER

2 PRIMARY SETTLING TANK

2¾" 6'-10½" WINDOW OPNG. (TYP.) 2¾"

NOTE: DESIGN LOAD OPERATING PLATFORM 200 P.S.F.

PLAN ABOVE OPERATING FLOOR

SCALE : 3/8" = 1'-0"

3/4" PREMOLDED JT. FILLER

EL. 67.50

1" NEOPRENE BEARING PAD 50 (DUROMETER)

TANK WALL

12"

DETAIL

SCALE : 1 1/2" = 1'-0"

12"x12" COL.

4-#6 DOWELS

EL. 71.50

1" NEOPRENE BEARING PAD (50 DUROMETER)

#4 @ 12"

EL. 67.50

CONST. JT.

EXTEND VERTICAL WALL REINFORCEMENT

TANK WALL

RUMP HOUSE WALL

SECTION B/146A

SCALE : 3/8" = 1'-0"

SCALE IN FEET

SCALE: 3/8" = 1'-0"

SCALE IN FEET

SCALE: 1 1/2" = 1'-0"

REV. NO.	DATE	REVISION	BY
1	3-76	ADDED A.B. FOR MIXER SUPP.	RWJ

DESIGNED: A.P.
DRAWN: R.R.W.
CHECKED: A.B.K.

SUBMITTED: BRILEY, WILD & ASSOCIATES
PRINCIPAL
PROJECT ENGINEER
APPROVED:

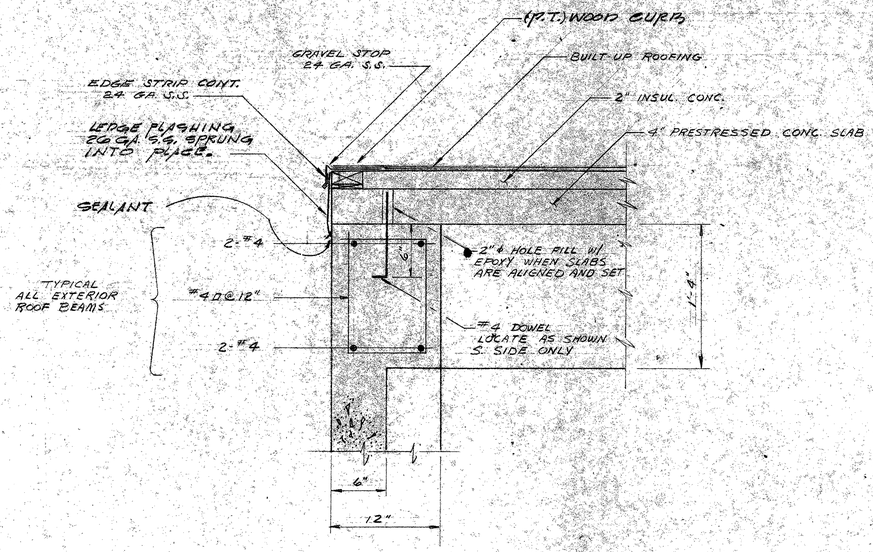
JOHN E. WILD No. 11532 STATE OF FLORIDA REGISTERED ENGINEER

CHARLES S. HOBBS No. 22794 STATE OF FLORIDA REGISTERED ENGINEER

Briley, Wild & Associates
CONSULTING ENGINEERS
ORMOND BEACH, FLA. CLEARWATER, FLA.

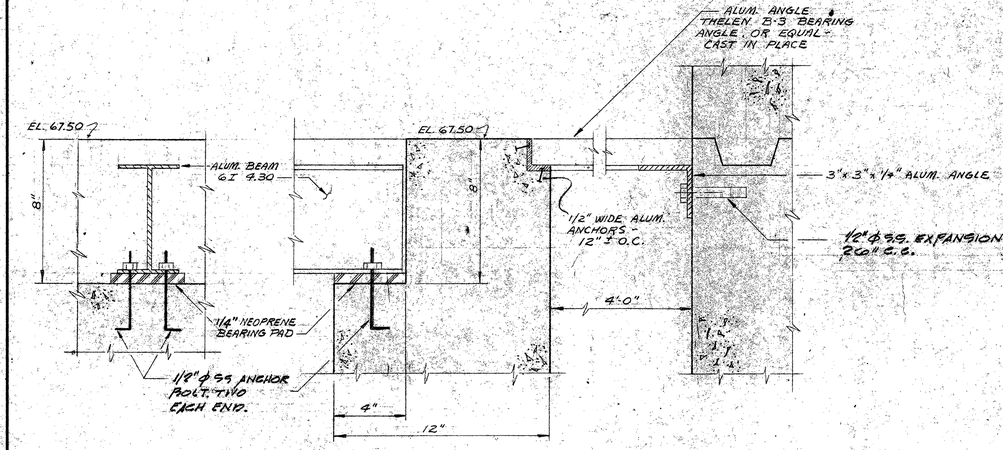
NORTHEAST WASTEWATER TREATMENT FACILITY
PRIMARY SETTLING TANKS - DETAILS
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: AS SHOWN
SHEET NO. 107 OF 142
PROJ. NO. 7236-2A
FILE NO. S-8478



SECTION E/108

SCALE : NONE

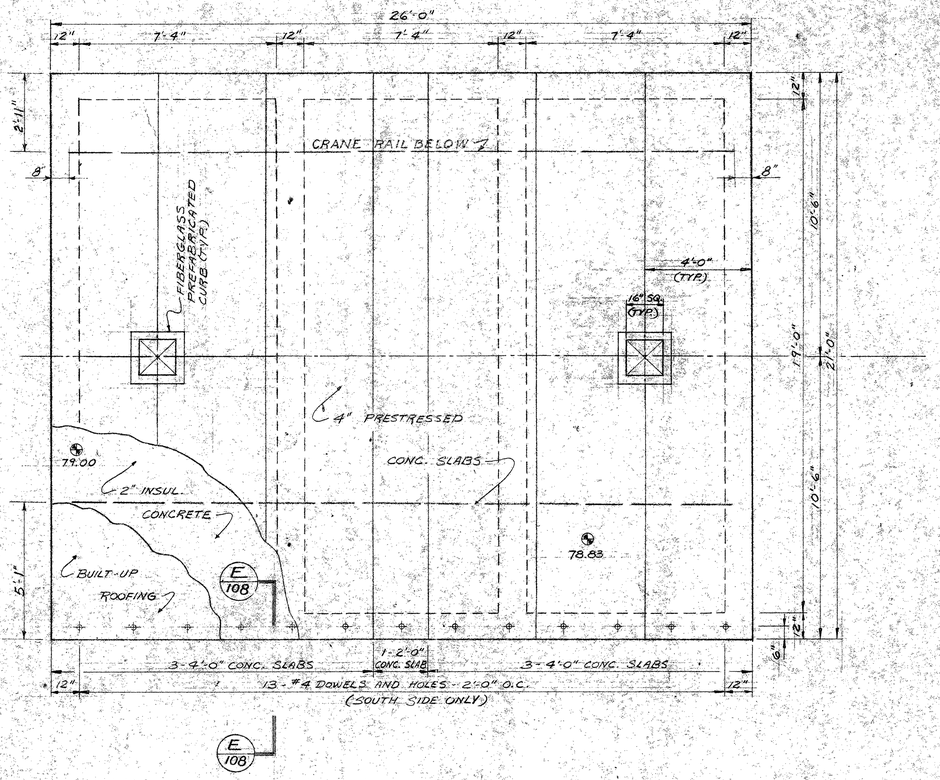


END VIEW

SECTION

GRATING SUPPORT DETAIL

SCALE: 3"=1'-0"



E/108

ROOF PLAN

SCALE: 3/8"=1'-0"

NOTE: PRESTRESSED CONC. SLABS SHALL BE DESIGNED TO SUPPORT LIVE LOAD OF 30PSF IN ADDITION TO WEIGHT OF ROOFING & INSULATING CONCRETE.

N

0 2 4 6 8
SCALE IN FEET
SCALE: 3/8" = 1'-0"

0 1/2
SCALE IN FEET
SCALE: 3" = 1'-0"

REV. NO.	DATE	REVISION	BY

DESIGNED CAP
DRAWN R.P.W.
CHECKED MCR

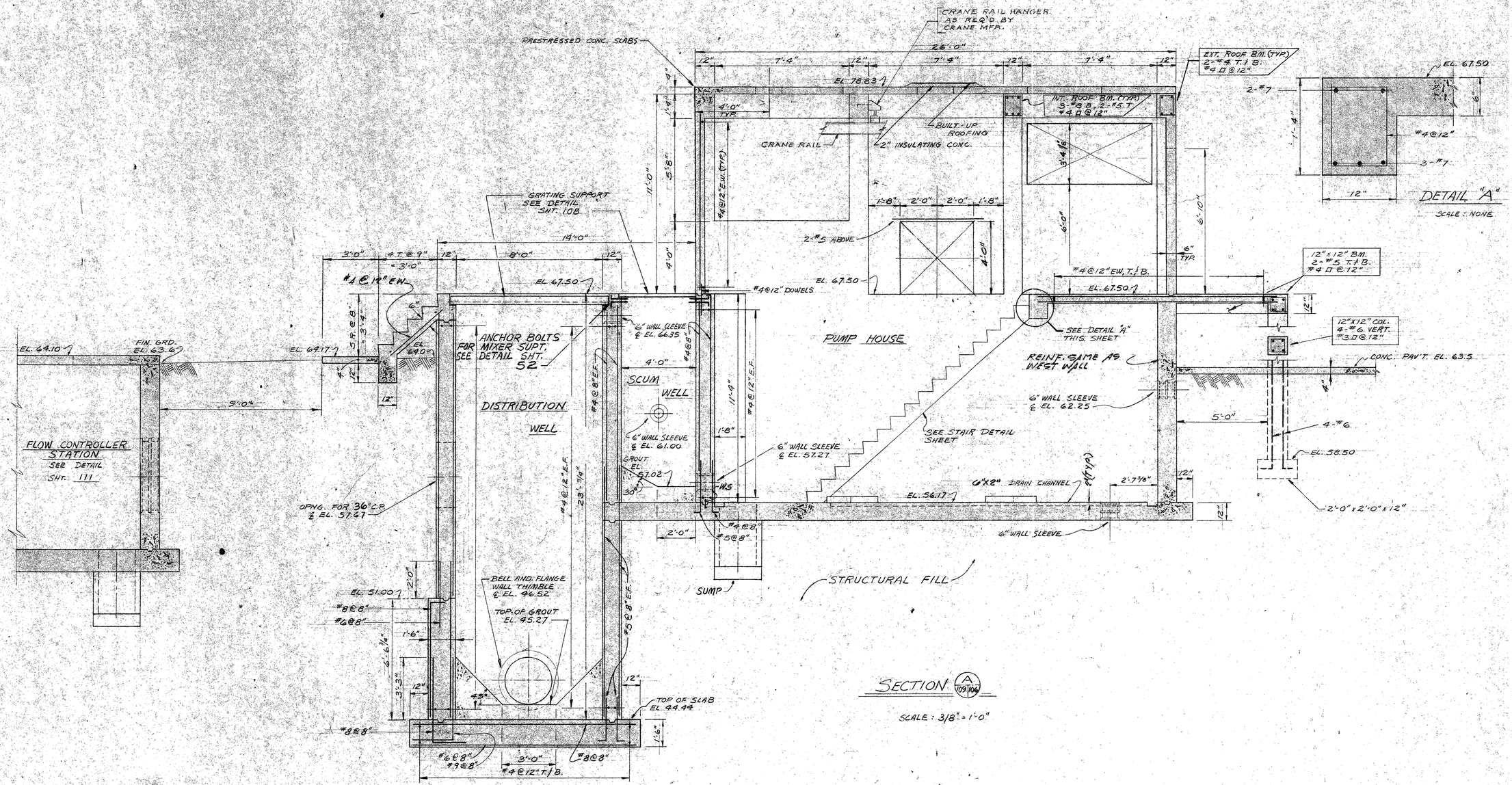
SUBMITTED: BRILEY, WILD & ASSOCIATES
PRINCIPAL
PROJECT ENGINEER
APPROVED:
8/24/71

CHARLES S. BIDGOOD CERTIFICATE No. 22424 STATE OF FLORIDA REGISTERED ENGINEER

Briley, Wild & Associates
CONSULTING ENGINEERS
ORMOND BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
PRIMARY SETTLING TANKS - DETAILS
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: AS SHOWN
SHEET NO. 108 OF 142
PROJ. NO. 7236-21
FILE NO. S-8479



SECTION A (109/106)

SCALE: 3/8" = 1'-0"

SCALE IN FEET
SCALE: 3/8" = 1'-0"

REV. NO.	DATE	REVISION	BY
1	5-76	ADDED A.B. - 42" SCE TO 36" (RCP)	

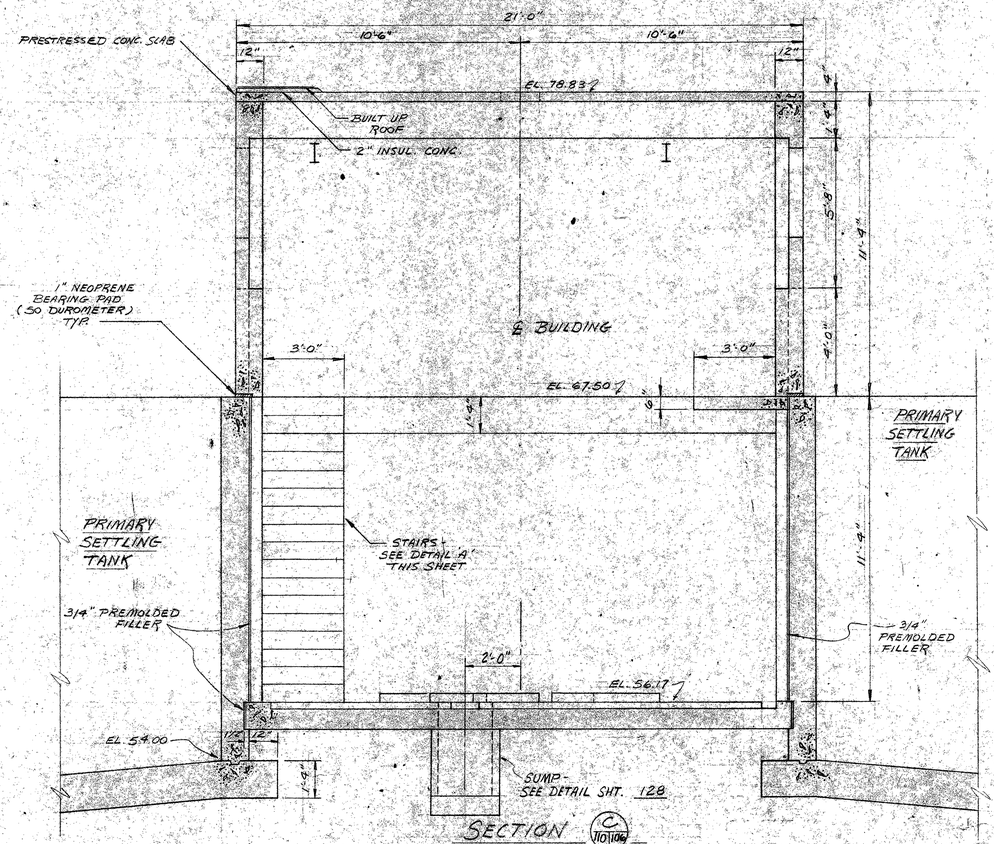
DESIGNED C.M.R.
DRAWN R.R.W.
CHECKED

SUBMITTED: BRILEY, WILD & ASSOCIATES
PRINCIPAL
PROJECT ENGINEER 5/4/76
APPROVED:

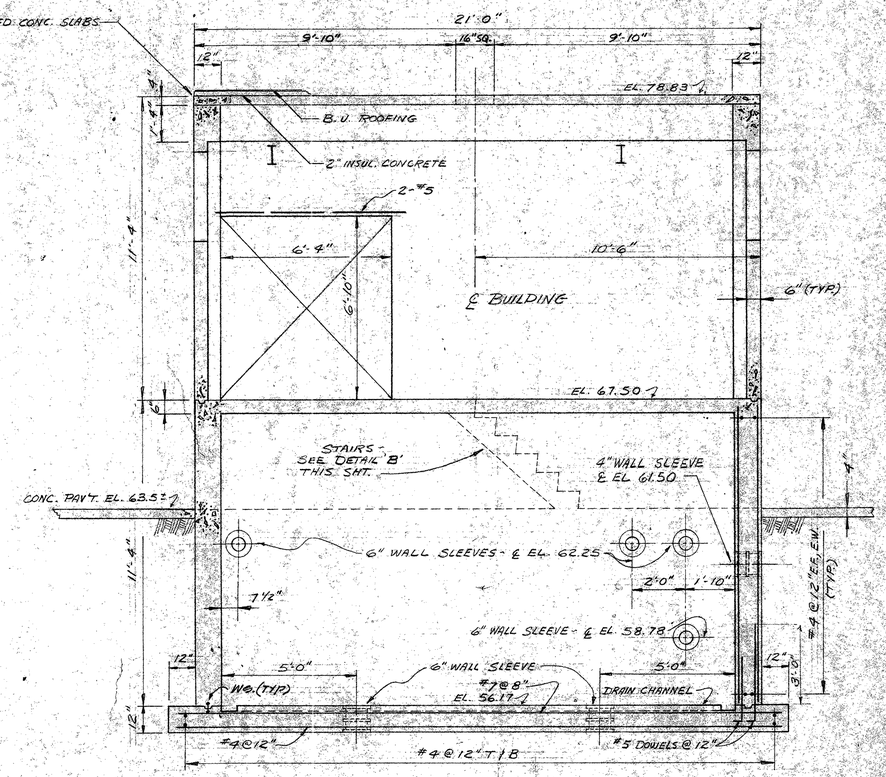
Briley, Wild & Associates
CONSULTING ENGINEERS
ORMOND BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
PRIMARY SETTLING TANKS - DETAILS
CLEARWATER, FLORIDA

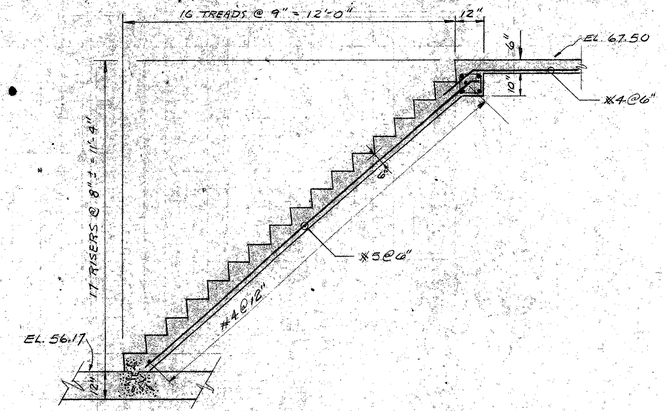
DATE: DEC. 1975
SCALE: AS SHOWN
SHEET NO. 109 OF 142
PROJ. NO. 7236-2
FILE NO. S - 8480



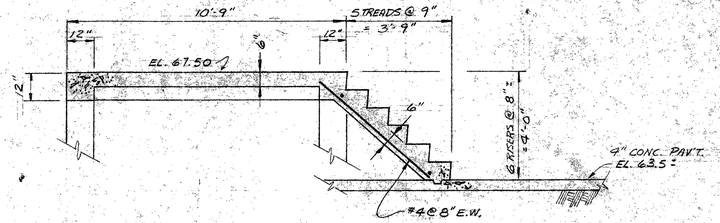
SECTION (C) 110/106



SECTION (D) 110/106



STAIR DETAIL 'A'



STAIR DETAIL 'B'

0 2 4 6 8
SCALE IN FEET
SCALE: 3/8" = 1'-0"

REV. NO.	DATE.	REVISION	BY

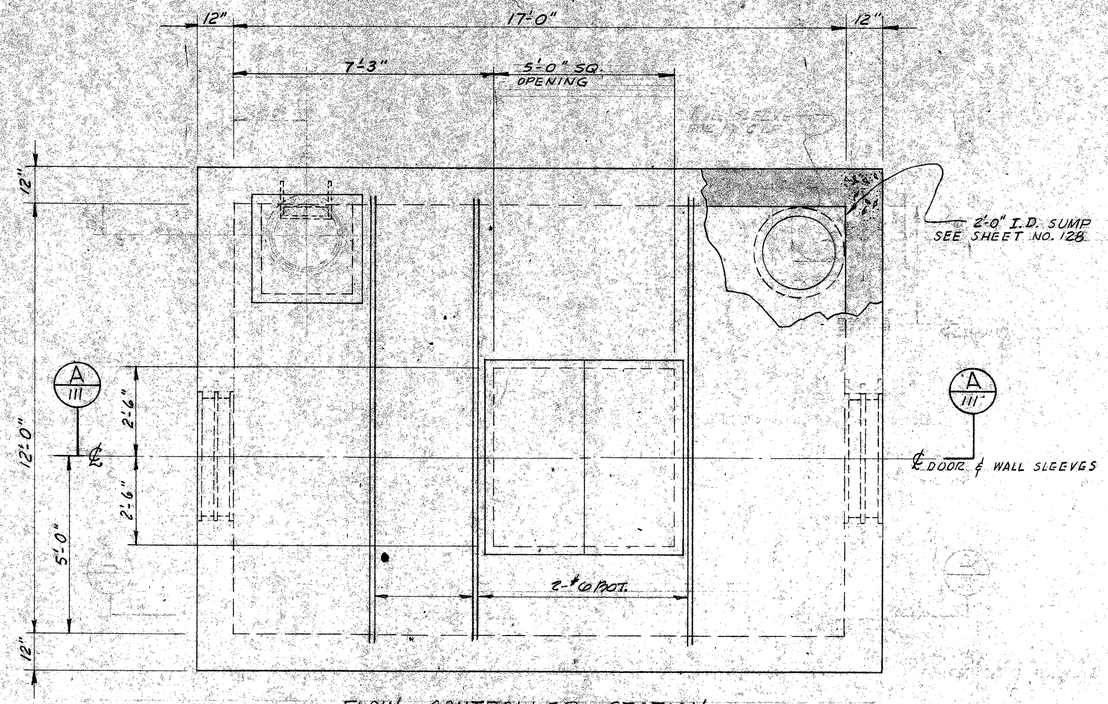
DESIGNED
DRAWN
CHECKED

SUBMITTED: BRILEY, WILD & ASSOCIATES
PRINCIPAL
PROJECT ENGINEER
APPROVED:

Briley, Wild & Associates
CONSULTING ENGINEERS
ORMOND BEACH, FLA. CLEARWATER, FLA.

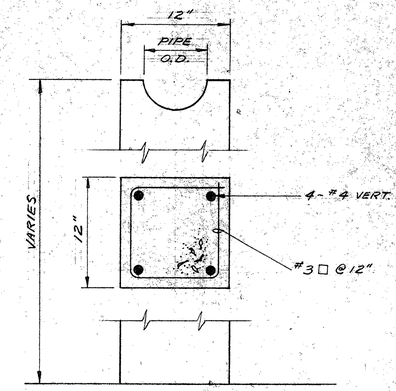
NORTHEAST WASTEWATER TREATMENT FACILITY
PRIMARY SETTLING TANKS - DETAILS
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: 3/8" = 1'-0"
SHEET NO. 110 OF 142
PROJ. NO. 7236-2A
FILE NO. S-8481



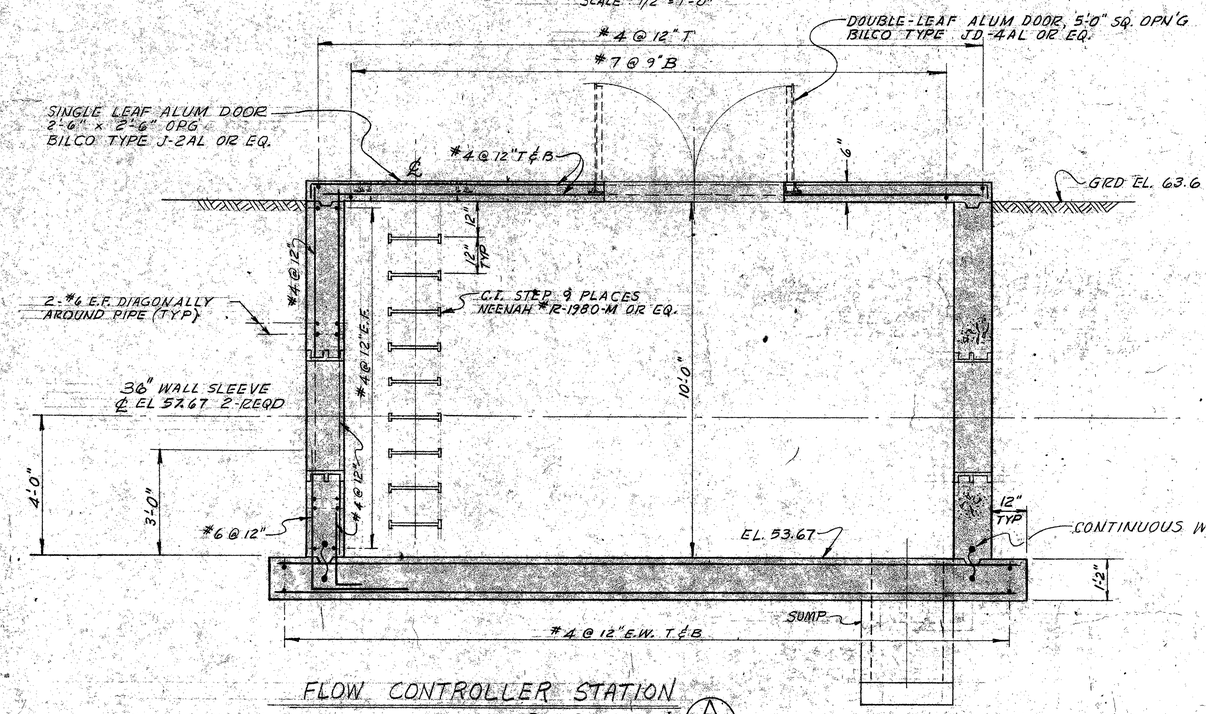
FLOW CONTROLLER STATION PLAN VIEW

SCALE : 1/2" = 1'-0"



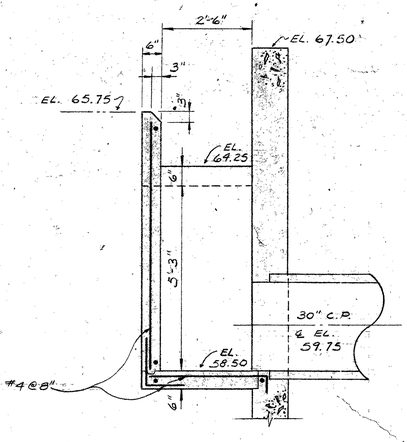
CONCRETE PIPE SUPPORT - DETAIL

SCALE : 1-1/2" = 1'-0"

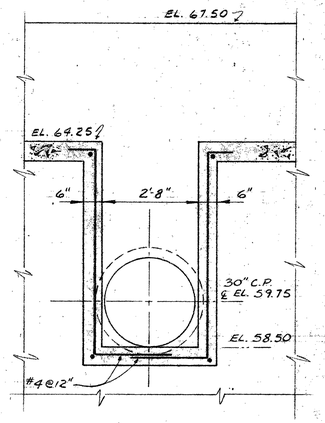


FLOW CONTROLLER STATION SECTION A 111

SCALE : 1/2" = 1'-0"



SIDE SECTION



FRONT SECTION

EFFLUENT DROP BOX - DETAILS

SCALE : 1/2" = 1'-0"

SCALE IN FEET
SCALE : 1/2" = 1'-0"

SCALE IN FEET
SCALE : 1/2" = 1'-0"

REV. NO.	DATE.	REVISION	BY
1	3-76	W.S. TO 36"	RCW

DESIGNED — DRAWN — CHECKED

SUBMITTED: BRISKY, WILD & ASSOCIATES
PRINCIPAL
PROJECT ENGINEER
APPROVED:

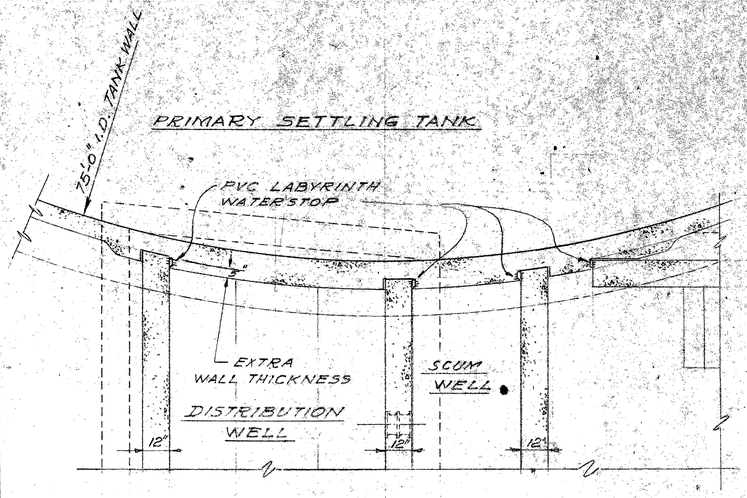
HARRY E. WILD — NO. 11551 — STATE OF FLORIDA

CHARLES B. RICHARDSON — CERTIFICATE — NO. 22524 — STATE OF FLORIDA — REGISTERED ENGINEER

Briley, Wild & Associates
CONSULTING ENGINEERS
ORMOND BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
PRIMARY SETTLING TANKS - DETAILS
CLEARWATER, FLORIDA

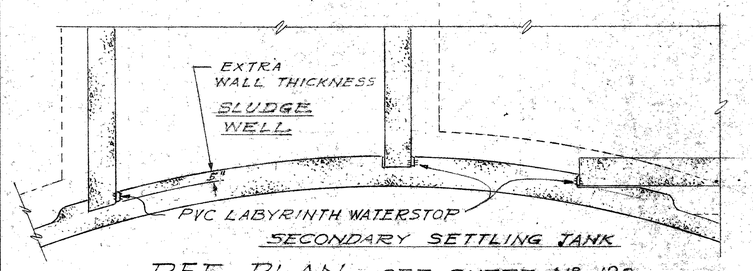
DATE: DEC. 1975
SCALE: 1/2" = 1'-0"
SHEET NO. 111 OF 142
PROJ. NO. 7236-2A
FILE NO. S-8482



PRIMARY SETTLING TANK

REF. PLAN SEE SHEET Nº106

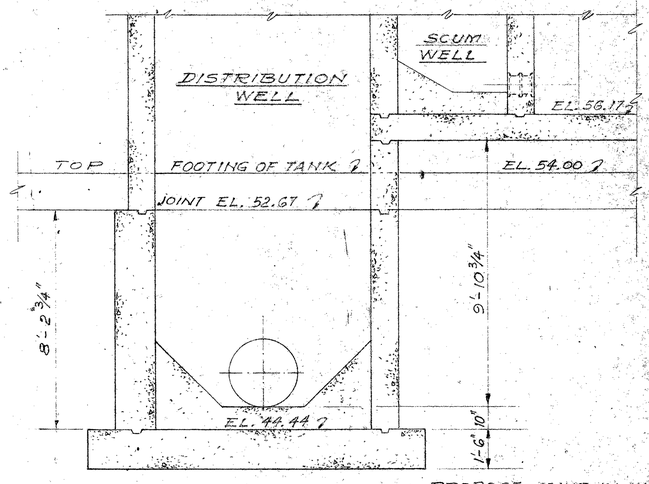
SCALE: 3/8"=1'-0"



SECONDARY SETTLING TANK

REF. PLAN SEE SHEET Nº 120

SCALE: 3/8"=1'-0"



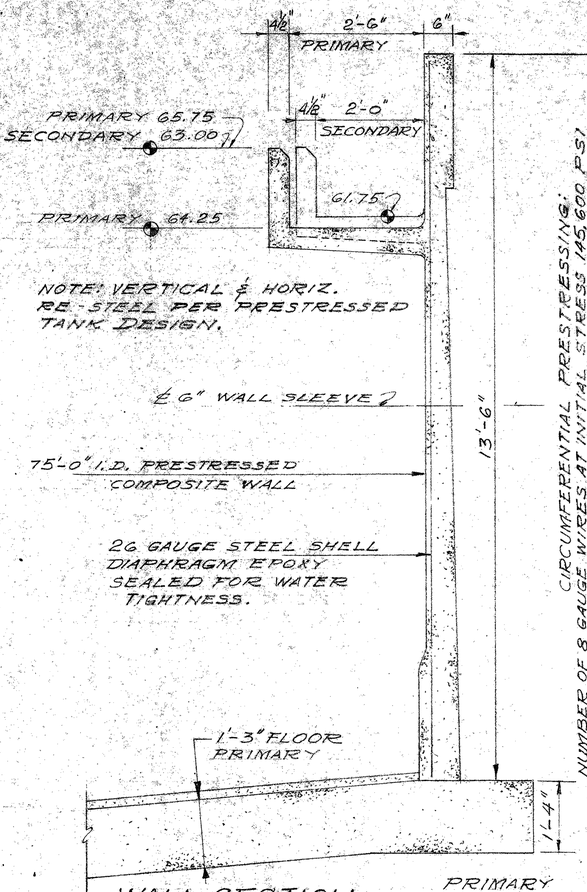
REF: SECTION

SCALE: 3/8"=1'-0"

(PRIMARY)

A III A 109

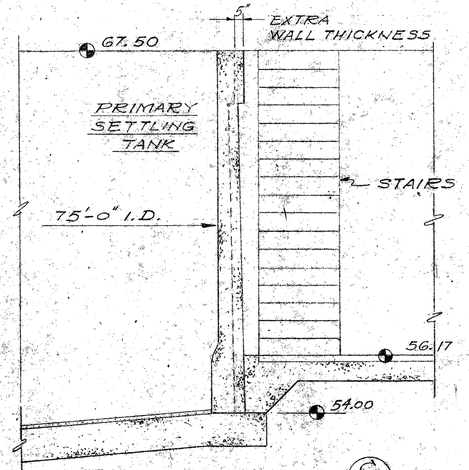
PROPOSE JOINT IN WALL AT ELEVATION 52.67 (UNDERSIDE OF TANK FOOTING.)



WALL SECTION

SCALE: 3/4"=1'-0"

PRIMARY REF.: SHEET Nº105 & REF.: SECONDARY SHEET Nº119

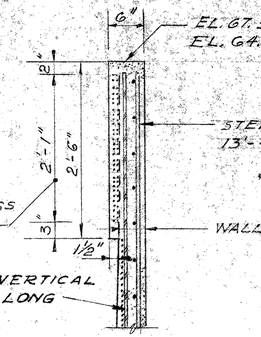


REF: SECTION

SCALE: 3/8"=1'-0"

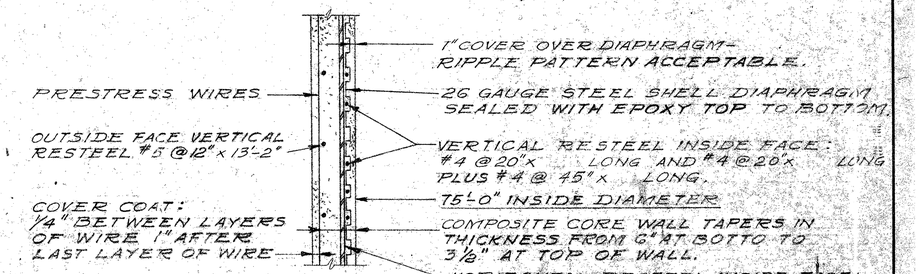
(PRIMARY)

C III A 110

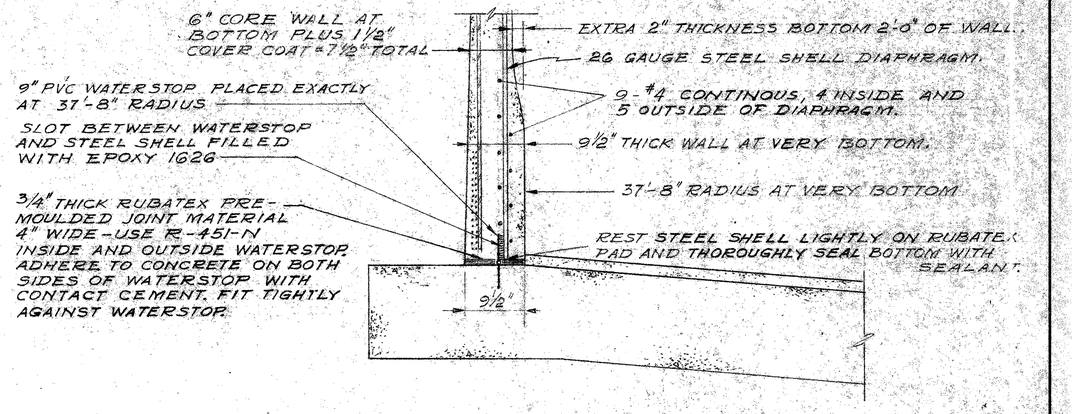


RING DETAIL

SCALE: 1"=1'-0"



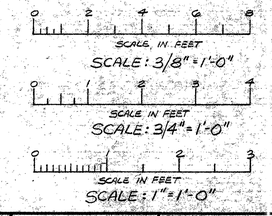
HORIZONTAL WALL SECTION



TYPICAL

FLOOR-WALL DETAIL

SCALE: 1"=1'-0"



'ALTERNATE #2'

REV. NO.	DATE	REVISION	BY

DESIGNED

DRAWN GH

CHECKED

SUBMITTED: BRILEY, WILD & ASSOCIATES

PRINCIPAL 3/26/76

APPROVED: PROJECT ENGINEER

CHARLES LEE CRUSE No. 22824 STATE OF FLORIDA REGISTERED ENGINEER

Briley, Wild & Associates

CONSULTING ENGINEERS

ORMOND BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY

PRIMARY & SECONDARY SETTLING TANKS (PRESTRESSED) — DETAILS

CLEARWATER, FLORIDA

DATE: DEC. 1975

SCALE: AS SHOWN

SHEET NO. III A OF 142

PROJ. NO. 7236-2A

FILE NO. S-8482 A

N

100'-8"

104'-0"

12" 5'-0" 12"

CONSTR. JT. (TYP.)

FOR CHANNEL DETAILS SEE SHT. No. 118.

ELEV. 71

61.5

H 112/114

E 112 D 112 E 112

10" WALL SLEEVES @ EL. 64.48

66.25

59.75

12" WALL SLEEVES @ EL. 64.48

12" TYP.

B 112/115

10"

3'-0"

1'-4"

A 112/115

21'-0"

4'-0"

6" THK. PRESTRESSED SLABS

D 112

49.25 66.25 60.25

6"

6"

112/114

1.3" (TYP.)

8'-9" (TYP.)

2'-6" (TYP.)

10'-0"

17'-6" (TYP.)

20'-0"

EL. 66.25

EL. 66.25

TANK NO. 4

5

6

7

TANK NO. 8

SEE STRUCTURAL DETAIL SHT. 129 FOR Y-WALL DETAIL

59.0

82'-8"

EXIST. JOINT

5'-0"

100'-8"

1'-4"

1'-4"

1'-4"

1'-4"

25'-0"

25'-0"

25'-0"

25'-0"

3'-10"

3'-10"

20'-0"

10'-0"

1/4" TREAD PLATE COVER (TYP.) SEE DETAIL SHEET No. 129

SEE SHT. 115 DETAIL FOR PRESTRESSED SLAB ANCHOR

8"

8"

21'-0"

6" PRESTRESSED CONC. SLAB

G 112/116

F 112/116

6'-0"

6" (TYP.)

4'-0"

12"

66.25

58.00

STOP GATE (TYP.)

3'-0" 3'-2" 3'-2" 3'-0"

66.25

60.25

3'-0" 6'-4" 3'-0"

3'-0"

10'-0"

66.25

4'-0" WIDE CONC. S/W 63.0

B 112/115

10" 20'-0"

10"

4'-0" 10" 16'-0" 10" 17'-8" 15'-0"

30" C.P. @ EL. 59.75

F 112/116 G 112/116 63.6

0 2 4 6 8 10 12 14 16

SCALE IN FEET

SCALE: 3/16" = 1'-0"

SECTION E 112

SCALE: 3/8" = 1'-0"

4'-0" PRESTRESSED CONC. SLAB

ELEV. 66.25

6" 6'-6" 6'-0" 7'-0"

ELEV. 59.75

ELEV. 60.25

9" 9"

2-#6

#4 □ @ 12"

3'-0"

2-#4

16"

18"

ELEV. 49.25

1'-6"

SECTION D 112

SCALE: 3/8" = 1'-0"

2'-0" #4 □ @ 12"

2-#6

EL. 60.25

4'-3"

5" EXP. JT.

2-#4

C 112/116

SEE STAIR DETAIL "A" SHT. 116

CONC. PAV'T.

REV. NO.	DATE	REVISION	BY

DESIGNED P.A.F.

DRAWN

CHECKED

SUBMITTED: BRILEY, WILD & ASSOCIATES 3/4/71

APPROVED:

STATE OF FLORIDA

Briley, Wild & Associates

CONSULTING ENGINEERS

DAYTONA BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY

AERATION TANKS — PLAN

CLEARWATER, FLORIDA

DATE: DEC. 1975

SCALE: 3/16" = 1'-0"

SHEET NO. 112 OF 142

PROJ. NO. 7236-2A

FILE NO. S-8483

A 113|117

165'-8"
164'-0"
10"
12"
GROUT
12" WALL SLEEVE ℄ EL. 64.48
12" (TYP)
12" WALL SLEEVE ℄ EL. 64.48
12" WALL SLEEVE ℄ EL. 64.48
⊕ 62.00
⊕ 66.25
⊕ 59.75
⊕ 66.25
⊕ 49.25
4'-0"
6'-0" (TYP)
6" PRESTRESSED CONC. SLAB (TYP)
3'-0"
1'-4"
8'-0" (TYP)
10'-0"
2'-6" (TYP)
1'-3" (TYP)
SEE DETAIL FOR STRUCTURAL Y WALL SHT Nº 129
38'-10"
14"
⊕ 63.75
22'-0"
11'-6" (TYP)
82'-8"
20'-0"
1 2 3 4 5 6
SLUDGE PUMP PAD
11'-0"
1:4
25'-0"
1:4
25'-0"
1:4
25'-0"
1:4
5'-0"
1:4
25'-0"
1:4
25'-0"
1:4
6" WALL SLEEVE ℄ EL. 53.25
2'-0"
40'-0"
20'-0"
1/4" TREAD PLATE (TYP.) SEE DETAIL SHT. Nº 129
3'-10"
11'-0"
SEE DETAIL FOR PRESTRESSED SLAB ANCHOR (TYP) SHT. Nº 115
6" (TYP)
21'-0" (TYP)
6" PRESTRESSED CONC. SLAB
4'-0"
10'-0"
⊕ 63.25
⊕ 66.25
3'-0"
10"
BLOCK WALL 6'-0" HIGH
12"
STOP GATE (TYP)
⊕ 38.00
⊕ 60.25
3'-0"
3'-2"
3'-2"
3'-0"
10"
20'-0"
12'-0"
8'-1"
4'-0" WIDE CONC. S/W
⊕ 66.25
8'-0"
4'-0"
10"
A 113|117
SEE DETAIL DECANT PUMP STATION SHT. Nº 117
SEE DETAIL "A" FOR STAIRS SHT. 116
NOTE: STEEL REINFORCEMENT SAME AS AERATION TANKS EXCEPT AS NOTED (1)
13'-6"
18'-0"
10"
16'-0"
10"
4'-0"
4'-0"
17'-8"

REV. NO.	DATE	REVISION	BY

DESIGNED MH
DRAWN
CHECKED MP

HARRY E. WILD No. 11682 STATE OF FLORIDA REGISTERED ENGINEER

SUBMITTED: BRILEY, WILD & ASSOCIATES
PRINCIPAL
PROJECT ENGINEER 2/26/76
APPROVED:

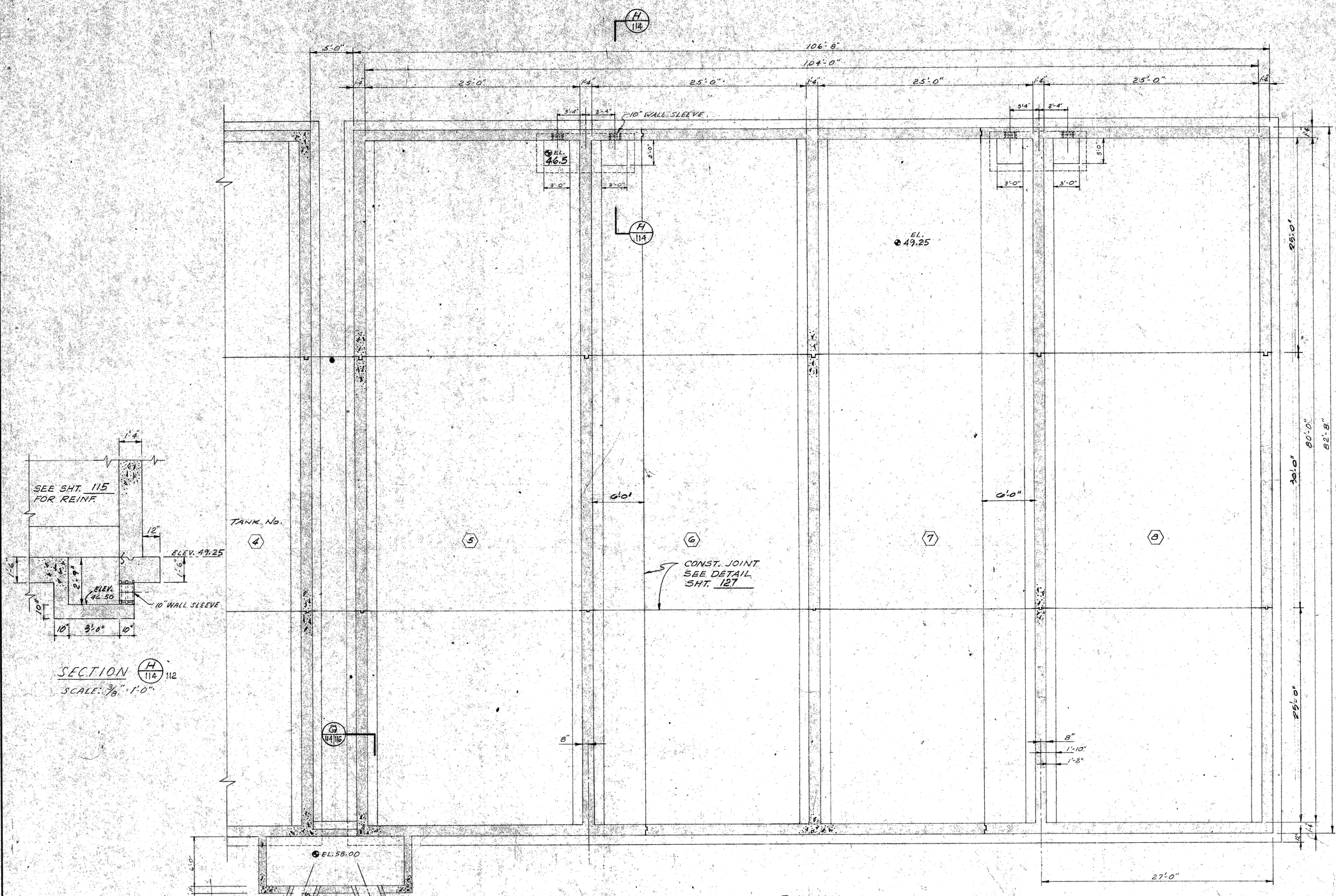
No 22924 STATE OF FLORIDA REGISTERED ENGINEER

Briley, Wild & Associates
CONSULTING ENGINEERS
ORMOND BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
AEROBIC DIGESTION TANKS - PLAN
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: 3/16" = 1'-0"
SHEET NO. 113 OF 142

PROJ. NO. 7236-2A
FILE NO. S-8484



SECTION H/114 112

SCALE: 3/8" = 1'-0"

PLAN

SCALE: 3/16" = 1'-0"

SCALE IN FEET
SCALE: 3/16" = 1'-0"

SCALE IN FEET
SCALE: 3/8" = 1'-0"

REV. NO	DATE	REVISION	BY

DESIGNED BRP
DRAWN P.R.F.
CHECKED C.R.

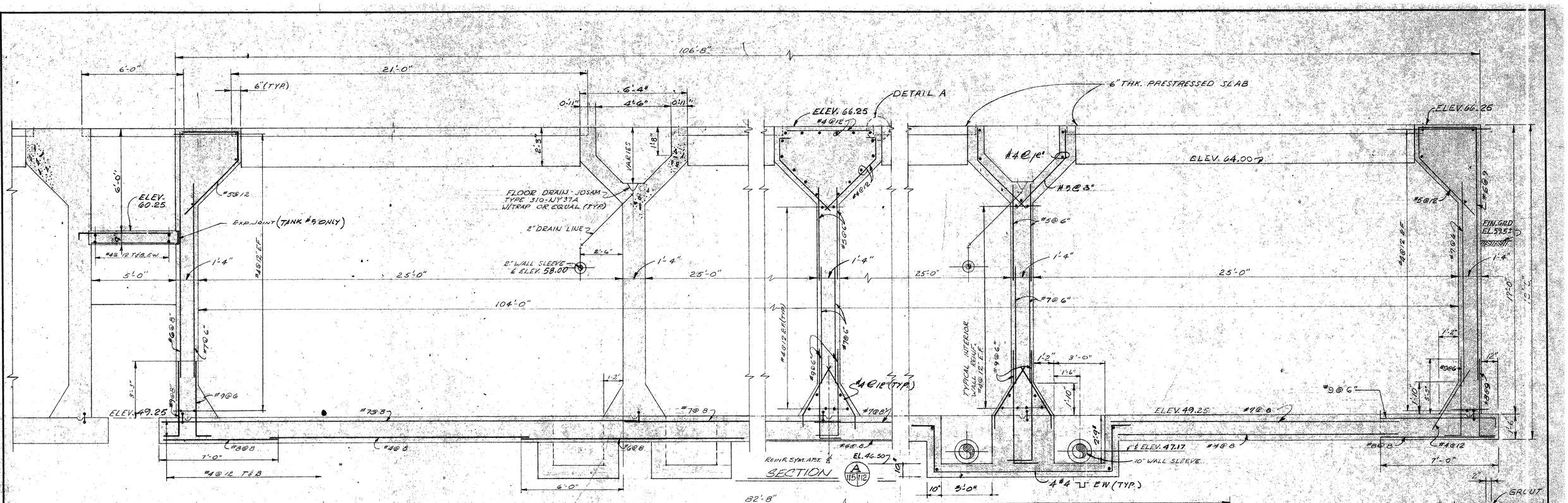
SUBMITTED: BRILEY, WILD & ASSOCIATES 9/20/71
APPROVED:

Briley, Wild & Associates
CONSULTING ENGINEERS
DAYTONA BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
AERATION TANKS — PLAN
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: AS SHOWN
SHEET NO. 114 OF 142

PROJ. NO. 7236 - 2A
FILE NO. S-8485



REV. NO.	DATE	REVISION	BY

DESIGNED C.R.R.
DRAWN P.A.F.
CHECKED C.W.R.

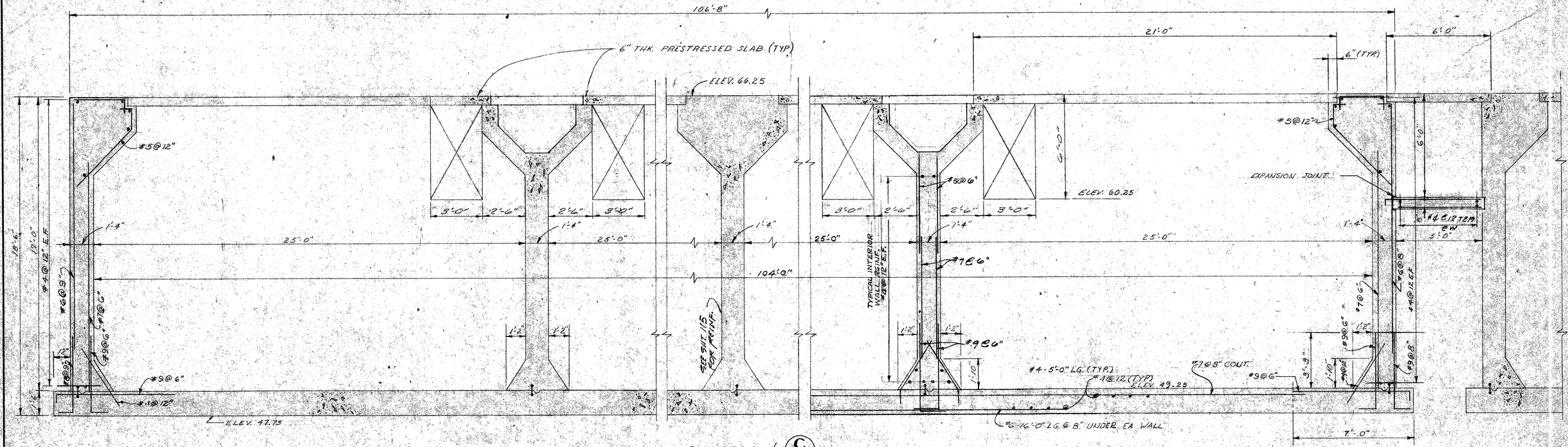
SUBMITTED: C.W. Richardson 3/4/76
BRILEY, WILD & ASSOCIATES
APPROVED:

Briley, Wild & Associates
CONSULTING ENGINEERS
DAYTONA BEACH, FLA. CLEARWATER, FLA.

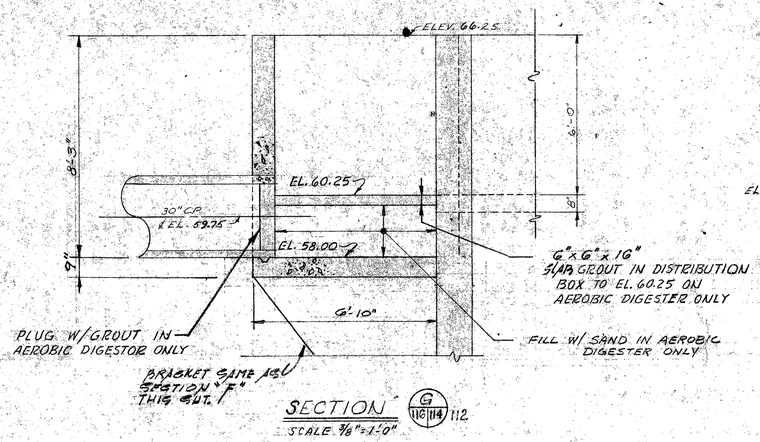
NORTHEAST WASTEWATER TREATMENT FACILITY
AERATION TANKS — AEROBIC DIGESTER
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: 3/8" = 1'-0"
SHEET NO. 115 OF 142

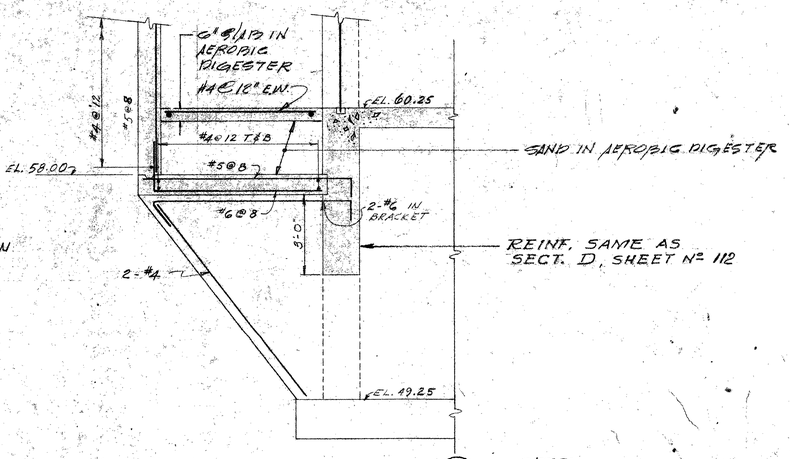
PROJ. NO. 7236-2A
FILE NO. S-8486



SECTION C (116 | 112)
SCALE 3/8"=1'-0"

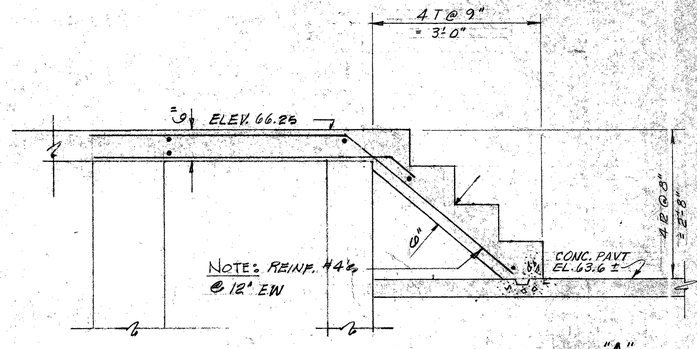


SECTION G (116 | 114) 112
SCALE 3/8"=1'-0"



SECTION F (116 | 112)
SCALE 3/8"=1'-0"

NOTE:
REFER TO SHT. Nº 113 FOR AEROBIC DIGESTION TANKS



STAIR DETAIL "A"
SCALE 3/4"=1'-0"

SCALE IN FEET
SCALE: 3/4" = 1'-0"

SCALE IN FEET
SCALE: 3/8" = 1'-0"

REV. NO.	DATE	REVISION	BY

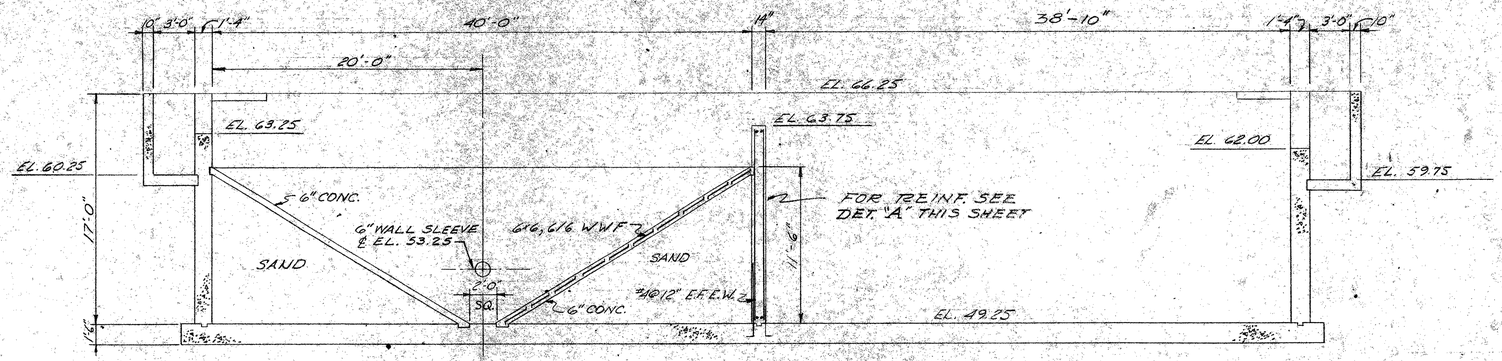
DESIGNED: WH
DRAWN: PAP
CHECKED: WH

SUBMITTED: [signature] 3/4/75
BRILEY, WILD & ASSOCIATES
APPROVED: [signature]

Briley, Wild & Associates
CONSULTING ENGINEERS
DAYTONA BEACH, FLA. CLEARWATER, FLA.

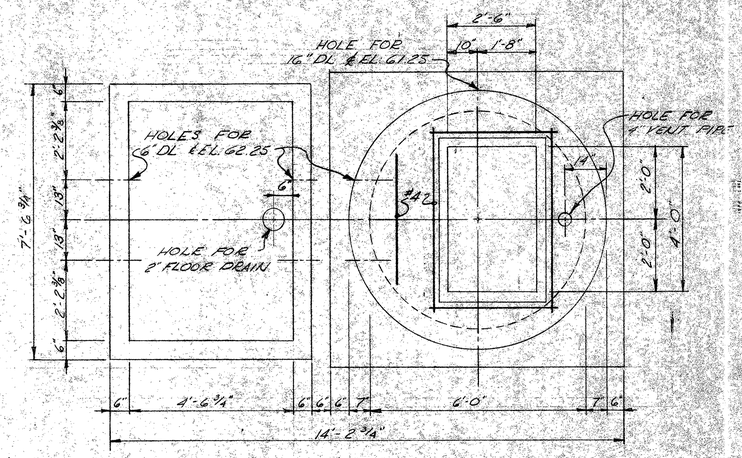
NORTHEAST WASTEWATER TREATMENT FACILITY
AERATION TANKS — AEROBIC DIGESTER
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: AS SHOWN
SHEET NO. 116 OF 142
PROJ. NO. 7236-2A
FILE NO. S-8487



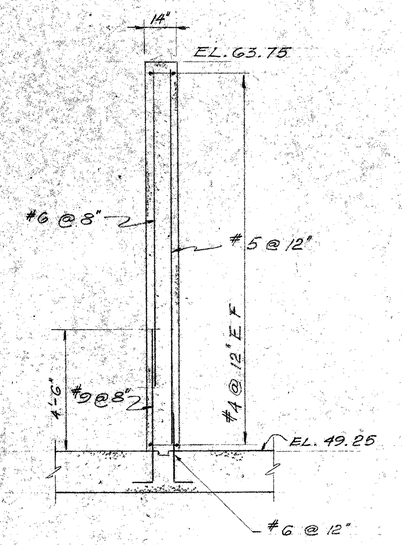
SECTION (A 117/115)

SCALE: 3/16"=1'-0"



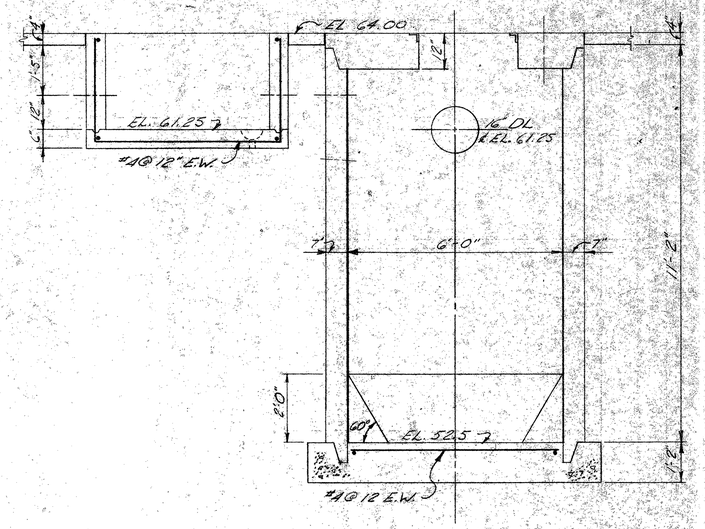
PLAN

SCALE: 1/2"=1'-0"



DETAIL "A"

SCALE: 3/8"=1'-0"



SECTION

DETAIL - DECANT PUMP STATION

SCALE: 1/2"=1'-0"

SCALE IN FEET
SCALE: 3/16"=1'-0"

SCALE IN FEET
SCALE: 1/2"=1'-0"

REV. NO.	DATE	REVISION	BY

DESIGNED: CMR
DRAWN: RDH
CHECKED: CMR

SUBMITTED: BRILEY, WILD & ASSOCIATES
PRINCIPAL
PROJECT ENGINEER 4/24/75
APPROVED:

No. 22924 STATE OF FLORIDA REGISTERED ENGINEER

Briley, Wild & Associates
CONSULTING ENGINEERS
ORMOND BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
AEROBIC DIGESTION TANKS-DETAILS
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: AS SHOWN
SHEET NO. 117 OF 142

PROJ. NO. 7236-21
FILE NO. S-8488

N

SLOPE

1

45°-12"
34°

6" WALL SLEEVE
℄ EL. 59.08

SEE STAIR DETAIL A
THIS SHT. (TYP.)

26°-34'

64.75 61.75

OPENING FOR 24" CP
℄ EL. 56.50

7 R. @ 8.1"±
7 T. @ 9"

60.2

A/118

EL. 64.75

59.75

2'-6"

FOR CHANNEL DETAILS
SEE THIS SHEET

61.0

A/118

36-#6 @ TOP
36-#6 @ BOT.

CONC. SLAB

9'-0"

EL. 61.25

55.00

FOR DISTRIBUTION
STRUCTURE DETAILS
SEE SHT. 124

9'-0"

2'-6"

60.6

6 R. @ 8"±
6 T. @ 9"

72-#5
TOP & BOTTOM

#5 @ 12" TOP & BOTTOM

36-#5
TOP &
BOTTOM

11'-6"

5'-6"

6'-0"

60.8

OPENING FOR 24" C.P.
℄ EL. 56.50

6'-0"

5'-0"

55.50

OPENING FOR 24" C.P.
℄ EL. 56.50 FOR EFFLUENT
DETAIL SEE SHT. 124

57.50

64.50

OPENING FOR 24" C.P.
℄ EL. 56.50 FOR EFFLUENT
DETAIL SEE SHT. 124

CONC. SIDEWALK

FOR CHANNEL DETAIL
SEE SHT. 125

2'-0" 2'-10" 2'-10"

61.75

64.75

61.0

60.6

48'-0"

96'-0"

2

SLOPE

ASPH. PAVT.

60.0

6" WALL SLEEVE
℄ EL. 59.08

OPENING FOR 24" C.P.
℄ EL. 56.50

26°-34'

19°

61.75 64.75

CONC. SLAB

48'-0"

16" SQ. OPENING FOR
ROOF VENTILATOR (TYP)

SEE SHT. 120 FOR
PUMP HOUSE DETAILS

3 @ 8.5"±
7 T @ 9"

UP

9'-6"

96'-0"

59.0

11'-0"

38'-0"

6'-0"

6" WALL SLEEVE
℄ EL. 59.08

19°

℄ STAIR (TYP) 45° TYP

37'-6" R.I.D.

FOR CENTER PIER DETAILS
SEE SHT. 119

60.2

48'-0"

64.75

61.75

SLOPE

4

FOR TYP. TANK SECTION
SEE SHT. 119

48'-0"

96'-0"

60.6

61.0

EXP. JT.

EL. 60.2

EL. 64.75

#6@12"

#4@12"

#4@12"

#6@12"

5'-0"

EL. 61.0

EL. 59.75

9"

#4@12"

#5@12"

12" 5'-0" 12"

SECTION A/118

SCALE: 3/8"=1'-0"

2"

EL. 64.75

#4@12"

4.8"

6"

#4@12" EW

STAIR DETAIL "A" 118

SCALE ½"=1'-0"

0 8 16 24

SCALE IN FEET

SCALE: 1/8" = 1'-0"

REV. NO.	DATE	REVISION	BY

DESIGNED RJR
DRAWN WDT
CHECKED RJR

SUBMITTED: 3/26/72
BRILEY, WILD & ASSOCIATES
APPROVED:

HARRY E. WILD
No. 11632
STATE OF VIRGINIA
REGISTERED ENGINEER

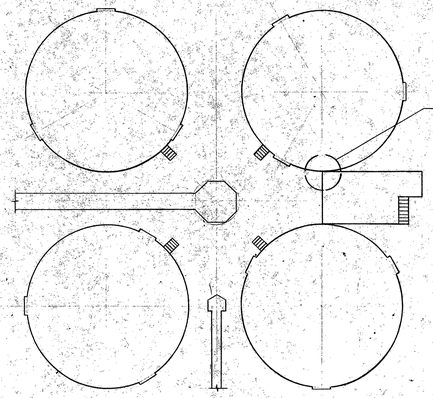
JAMES S. RICHARDSON
CERTIFICATE
REGISTERED ENGINEER

Briley, Wild & Associates
CONSULTING ENGINEERS
DAYTONA BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
SECONDARY SETTLING TANKS - PLAN
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: 1/8"=1'-0"
SHEET NO. 118 OF 142

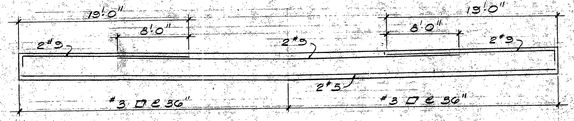
PROJ. NO. 7236-2A
FILE NO. S-8489



DET. @ WALL & BLDG. FOR POST-TENSIONING ALTERNATE. SAME AS FOR REBAR SCHEME.

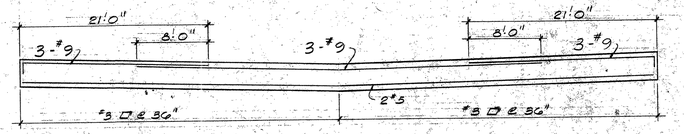
KEY PLAN

ALL DETAILS ARE THE SAME AS ON SHEET #118 (U.U.O.)



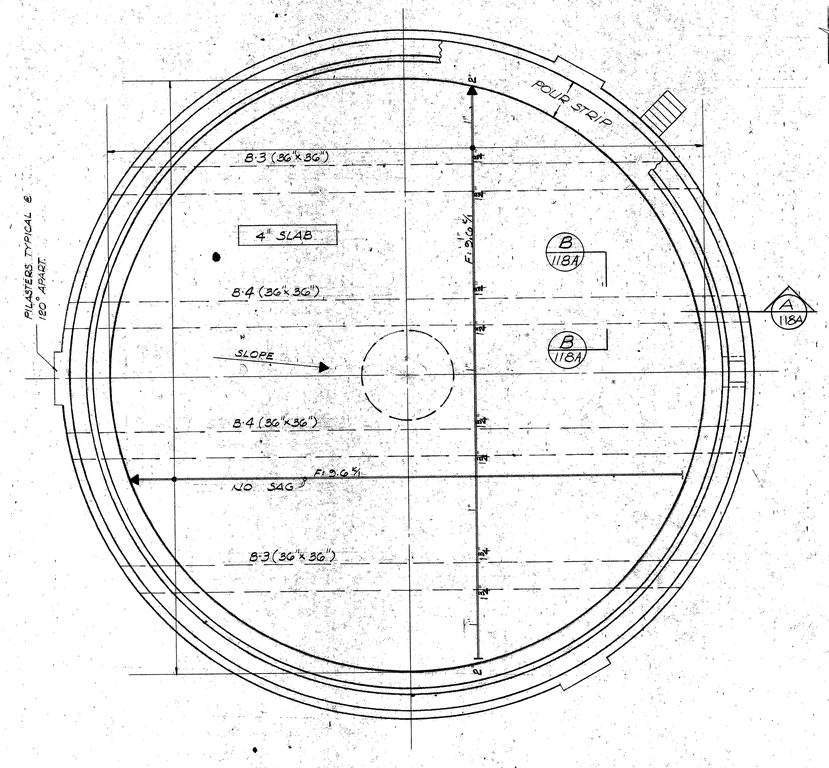
B-3 DETAIL

SCALE: 1/8" = 1'-0"



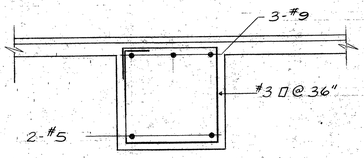
B-4 DETAIL

SCALE: 1/8" = 1'-0"



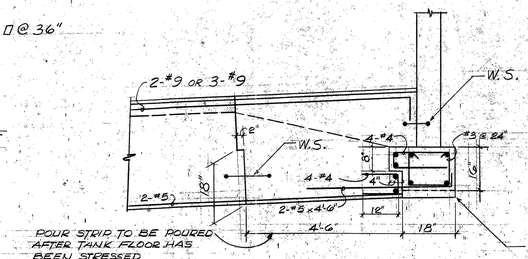
SECONDARY SETTLING TANK FLOOR PLAN

SCALE: 1/8" = 1'-0"



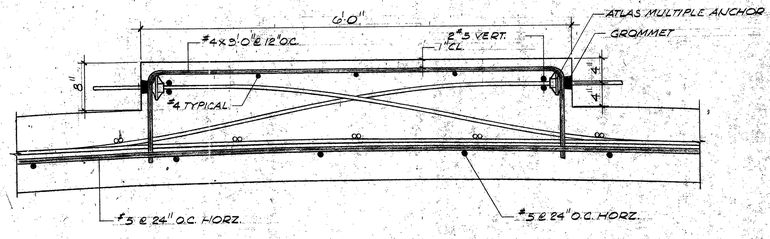
SECTION B 118A

SCALE: 1/2" = 1'-0"



SECTION A 118A

SCALE: 1/2" = 1'-0"



TYPICAL SECTION @ PILASTERS

SCALE: 1" = 1'-0"

FOR BALANCE OF PLAN SEE SHEET # 118.

0 1 2 3
SCALE IN FEET
SCALE: 1" = 1'-0"

0 2 4 16
SCALE IN FEET
SCALE: 1/2" = 1'-0"

0 8 16 24
SCALE IN FEET
SCALE: 1/8" = 1'-0"

'ALTERNATE #1'

REV. NO.	DATE.	REVISION	BY
1	3-76	CORRECTIONS AS PER CSR	REW

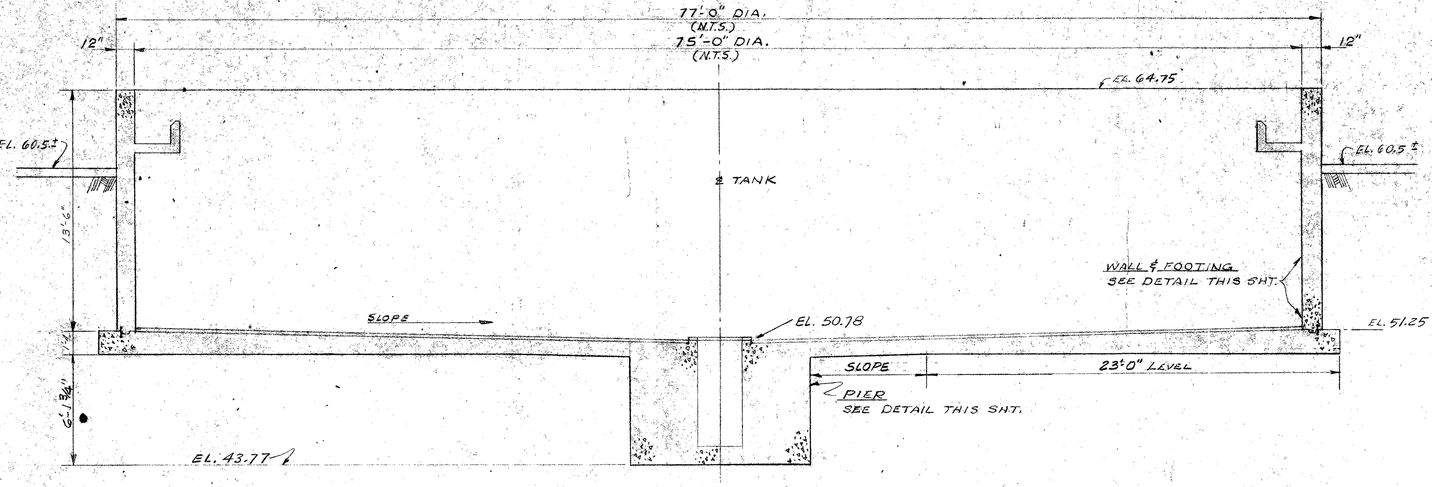
DESIGNED
DRAWN RDW ETT
CHECKED

SUBMITTED: BRILEY, WILD & ASSOCIATES
PRINCIPAL
PROJECT ENGINEER 3/24/76
APPROVED:

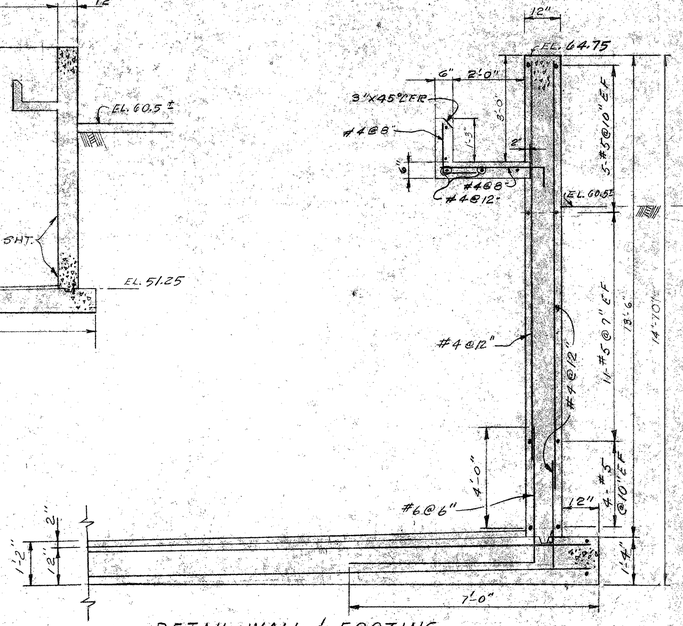
Briley, Wild & Associates
CONSULTING ENGINEERS
ORMOND BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
SECONDARY SETTLING TANKS (PRESTRESSED) — DETAILS
CLEARWATER, FLORIDA

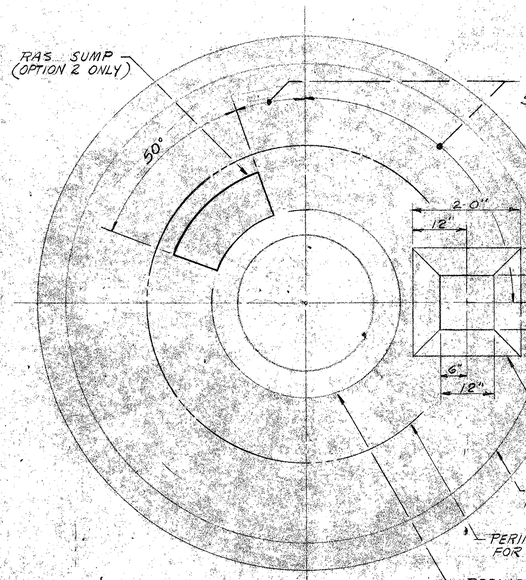
DATE: DEC. 1975
SCALE: AS SHOWN
SHEET NO. 118A OF 142
PROJ. NO. 7236-21
FILE NO. S-8489 A



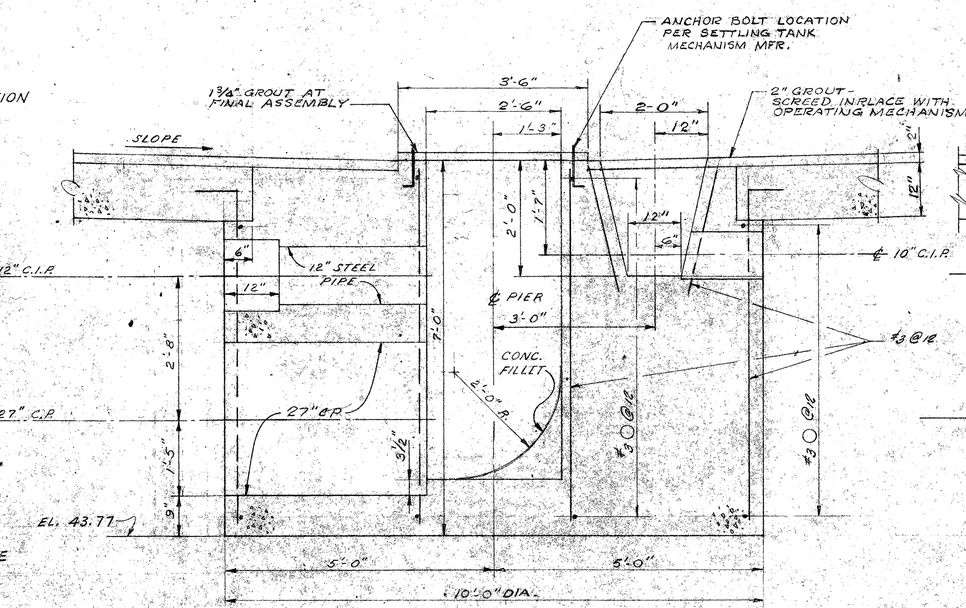
TYPICAL SECTION
SCALE: 1/4"=1'-0"



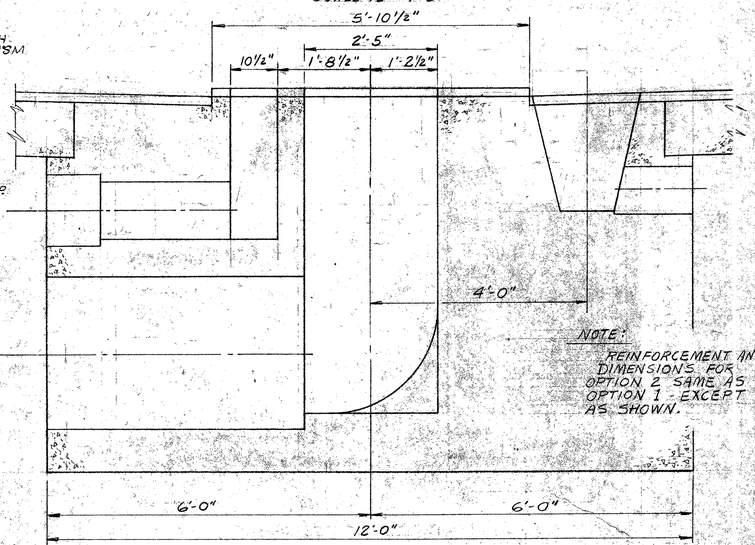
DETAIL WALL & FOOTING (119)
SCALE: 1/2"=1'-0"



PLAN - PIER
SCALE: NONE



OPTION 1 - MULTIPLE UPTAKE PIPE PIER



OPTION 2 - MULTIPLE INLET HEADER PIER

DETAILS PIER - SECONDARY SETTLING TANKS (118) (119)
SCALE: 3/4" = 1'-0"

NOTE: SEE PLANT PIPING PLAN SHT 63 FOR PIPING ORIENTATION

SCALE IN FEET
SCALE: 3/4" = 1'-0"

SCALE IN FEET
SCALE: 1/2" = 1'-0"

SCALE IN FEET
SCALE: 1/4" = 1'-0"

REV. NO	DATE	REVISION	BY	CHECKED
				DESIGNED AHR
				DRAWN RBH
				CHECKED AHR

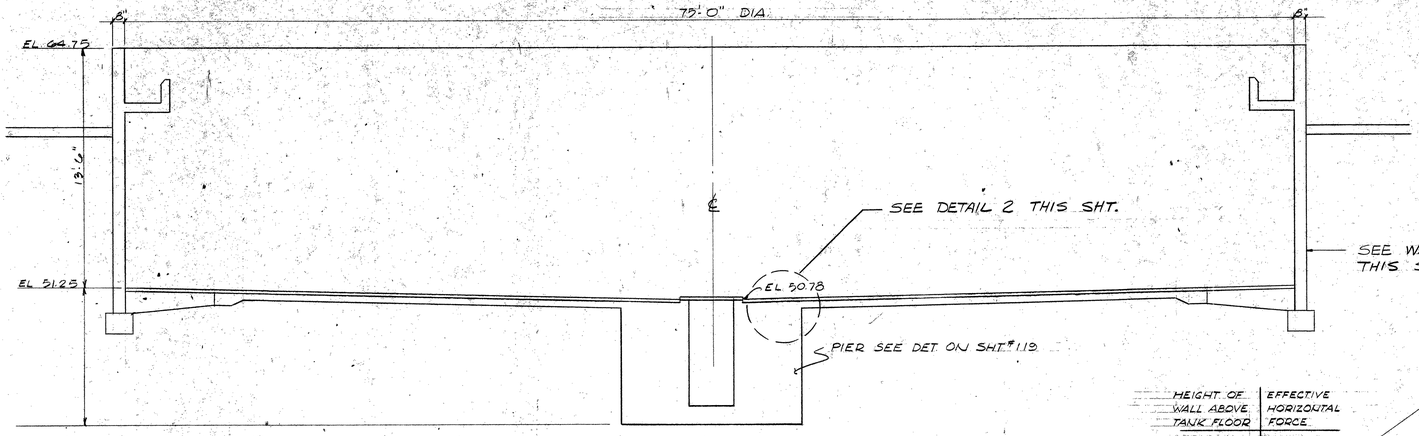
SUBMITTED: Briley, Wild & Associates 3/26/76
APPROVED:

PHILIP E. WILD — No. 1152 — STATE OF FLORIDA — REGISTERED ENGINEER
JAMES S. RICHARDSON — No. 5268 — STATE OF FLORIDA — REGISTERED ENGINEER

Briley, Wild & Associates
CONSULTING ENGINEERS
DAYTONA BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
SECONDARY SETTLING TANKS - SECTIONS
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: AS SHOWN
SHEET NO. 119 OF 142
PROJ. NO. 7236-2A
FILE NO. S-8490

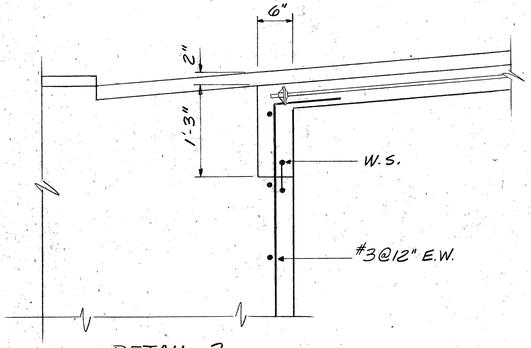


TYP. SECTION

SCALE: 1/4" = 1'-0"

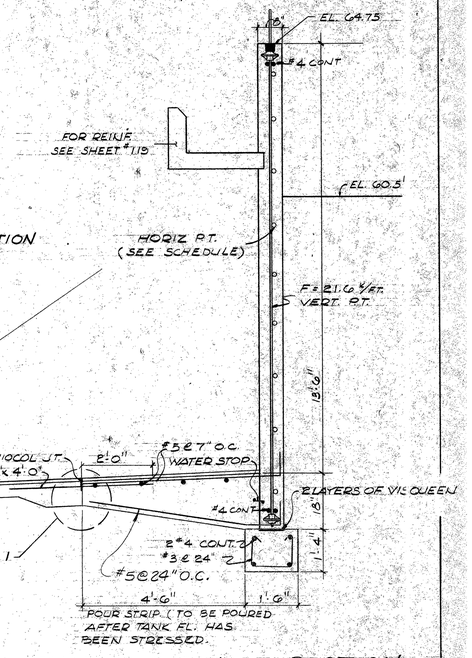
FOR BALANCE OF INFORMATION SEE SHEET #119

HEIGHT OF WALL ABOVE TANK FLOOR	EFFECTIVE HORIZONTAL FORCE
12' 2"	28.3%
10' 10"	31.7%
9' 6"	34.4%
8' 2"	36.3%
6' 9"	37.2%
5' 5"	37.5%
4' 0"	37.5%
2' 8"	37.5%
1' 4"	37.5%
BTM FL 0' 0"	37.5%



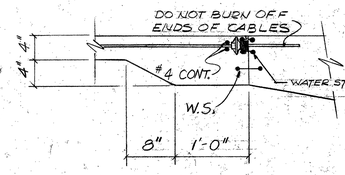
DETAIL 2

SCALE: 1" = 1'-0"



WALL SECTION

SCALE: 1/2" = 1'-0"



DETAIL 1

SCALE: 1" = 1'-0"

0 1 2 3
SCALE IN FEET
SCALE: 1" = 1'-0"

0 2 4 6
SCALE IN FEET
SCALE: 1/2" = 1'-0"

0 4 8 12
SCALE IN FEET
SCALE: 1/4" = 1'-0"

'ALTERNATE #1'

REV. NO.	DATE.	REVISION	BY
1	3-76	CORRECTIONS AS PER CSR	TRW

DESIGNED
DRAWN RRW EJT
CHECKED BJH

SUBMITTED: BRILEY, WILD & ASSOCIATES
PRINCIPAL
3/22/72
PROJECT ENGINEER
APPROVED:

Briley, Wild & Associates
CONSULTING ENGINEERS
ORMOND BEACH, FLA. CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY
SECONDARY SETTLING TANKS (PRESTRESSED) — SECTIONS
CLEARWATER, FLORIDA

DATE: DEC. 1975
SCALE: AS SHOWN
SHEET NO. 119 A OF 142
PROJ. NO. 7236-2A
FILE NO. S-8490 A