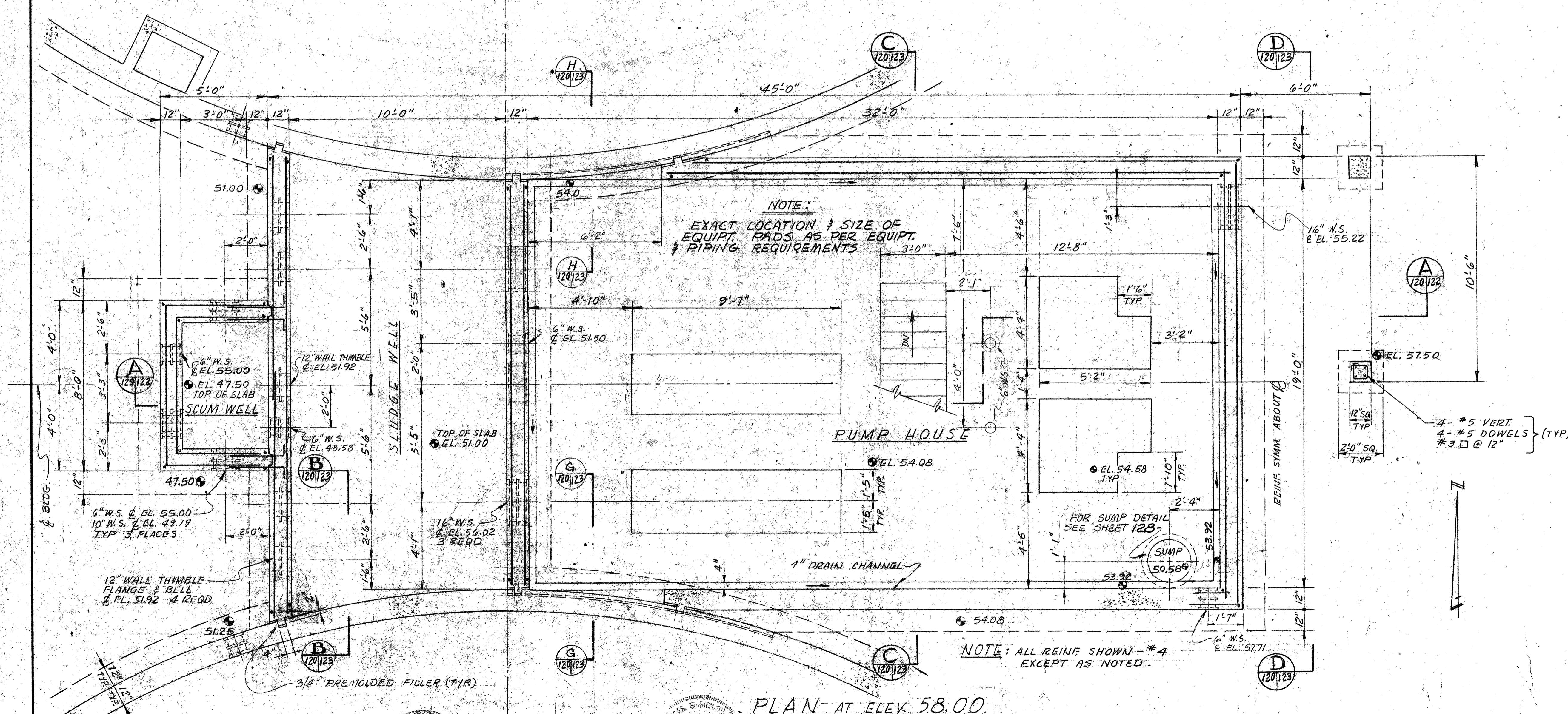


SECONDARY SETTLING TANK (TYP)



ROOF PLAN  
SCALE  $\frac{1}{4}'' = 1'-0''$

NOTE: PRESTRESSED ROOF SLABS SHALL BE DESIGNED TO SUPPORT A LIVE LOAD OF 30 PSF IN ADDITION TO THE INSULATING CONCRETE, ROOFING & EQUIPMENT

DESIGNED BY	NO. 1155 STATE OF FLA.	PRINCIPAL PROJECT ENGINEER	APPROVED BY
DRAWN BY	RECORDED BY	APR 26 1976	APR 26 1976
CHECKED BY	RECORDED BY	APR 26 1976	APR 26 1976

PLAN AT ELEV. 58.00

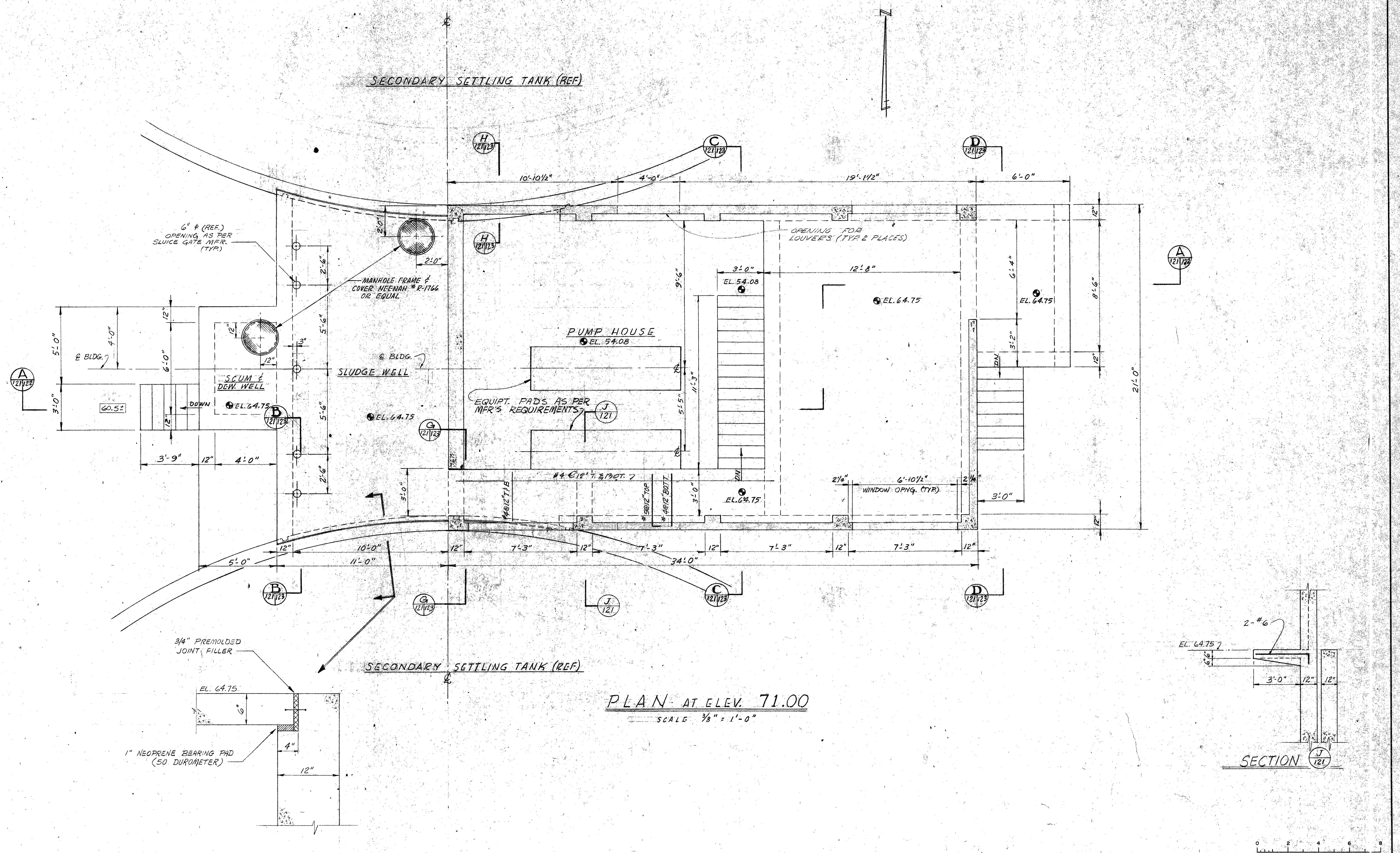
SCALE  $\frac{3}{16}'' = 1'-0''$

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

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

DATE: DEC. 1975  
SCALE: AS SHOWN  
FILE NO. S-8491  
PROJ. NO. 7236-2A  
SHEET NO. 120 OF 142

## SECONDARY SETTLING TANK (REF)



# Briley, Wild & Associates CONSULTING ENGINEERS

**MOND BEACH, FLA.**

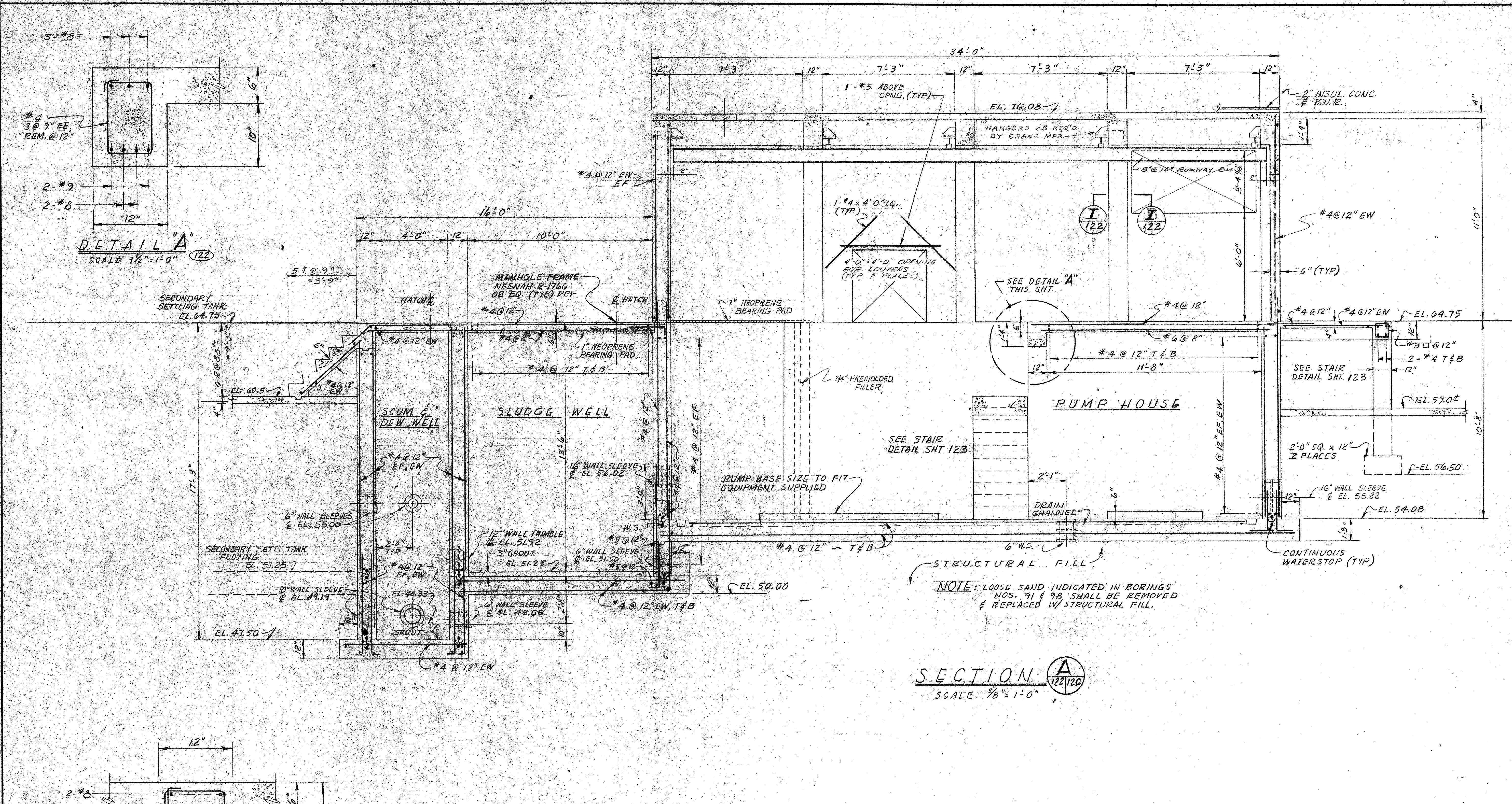
**MOND BEACH, FLA.**

**NORTHEAST WASTEWATER TREATMENT FACILITY  
SECONDARY SETTLING TANKS - DETAILS  
CLEARWATER, FLORIDA**

				DESIGNED DRAWN	NO. 11852 STATE OF FLORIDA PROJECT EN	SUBMITTED BY, TITLE PRINCIPAL C.S. Richardson
				BY RRW		
REV. NO.	DATE.	REVISION	BY	CHECKED		APPROVED:

ASSOCIATES		NO. 2291
AL	3/26/76	
<i>John</i> ENGINEER		STATE OF FLORIDA REGISTERED

DATE: DEC. 1975	PROJ. NO. 7236-2A
SCALE: AS SHOWN	FILE NO. S-8492
HEET NO. 121 OF 142	



REV. NO.	DATE:	REVISION	BY	DESIGNED	DRAWN	CHECKED
			BK	124	RW	



APPROVED:

STATE OF FLORIDA  
REGISTERED ENGINEER

APPROVED:

12/12

PROJECT ENGINEER

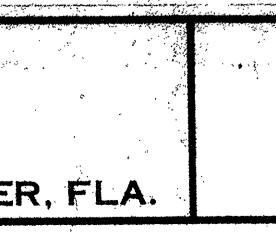
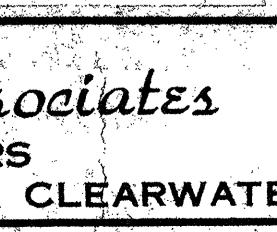
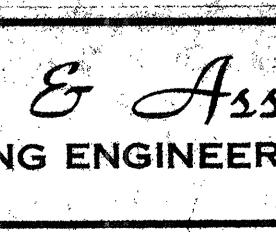
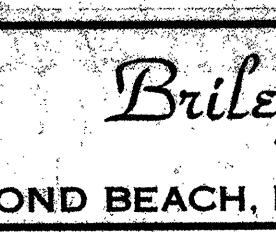
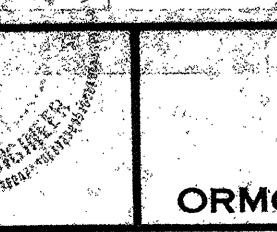
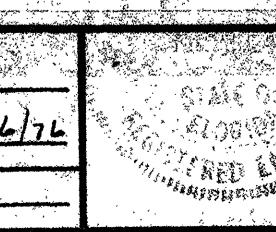
PRINCIPAL

PROJECT ENGINEER

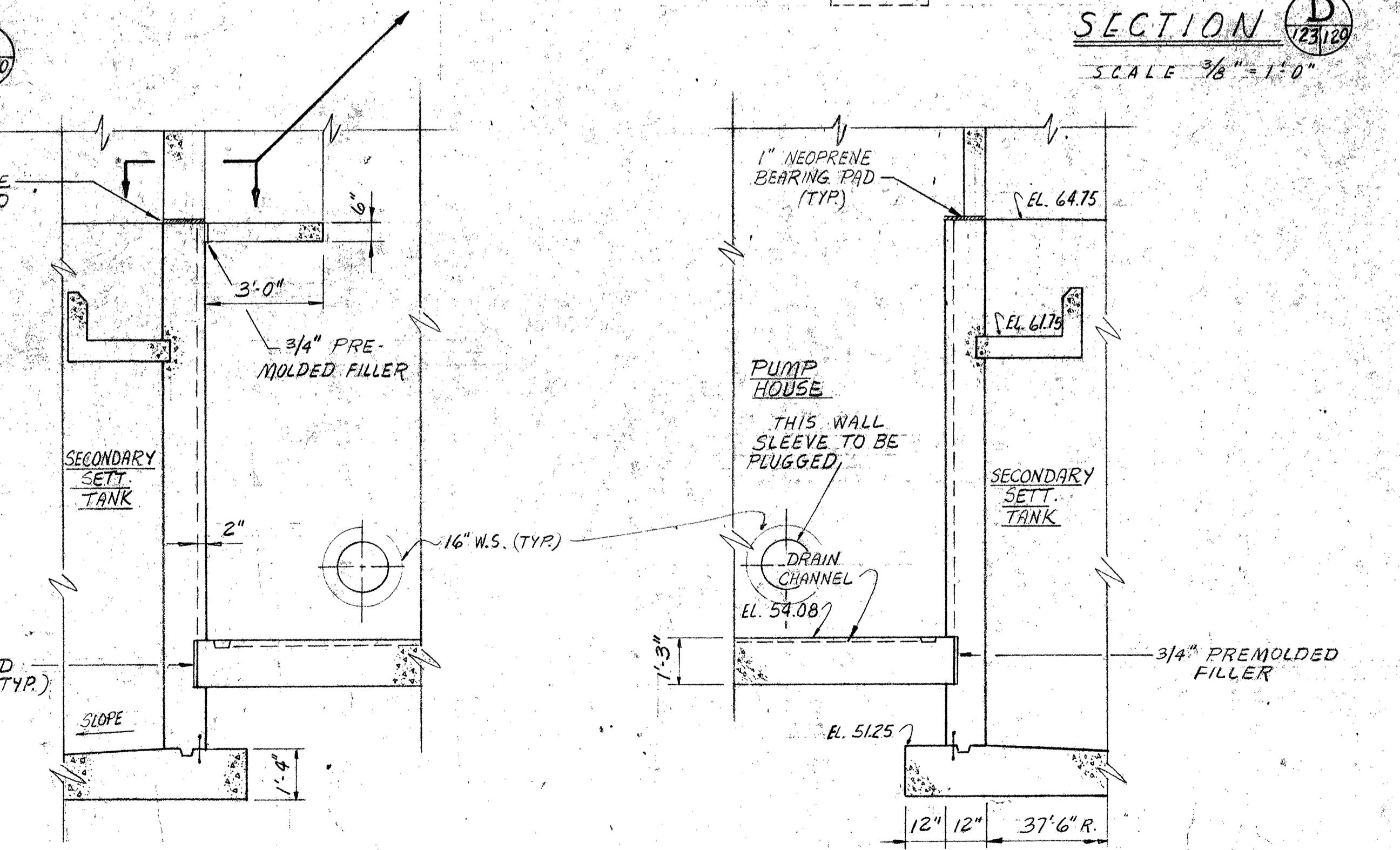
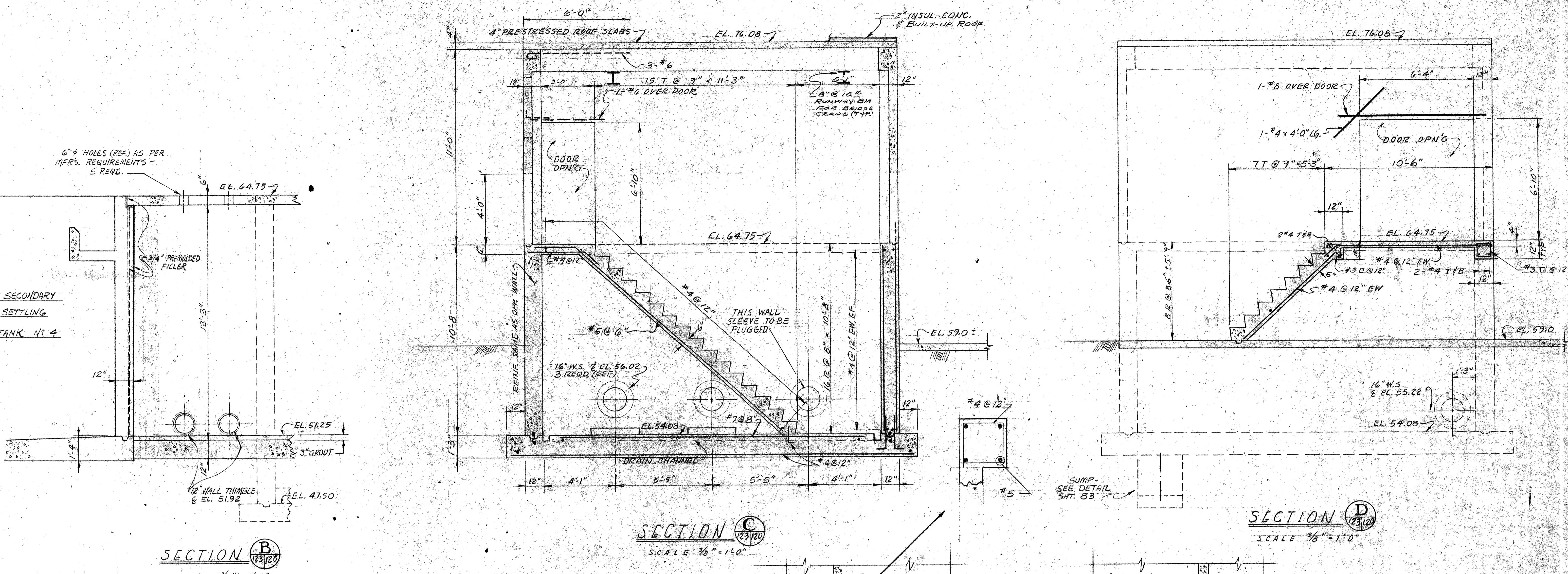
12/12

PROJECT ENGINEER

REV. NO.	DATE	REVISION	BY	DESIGNED	DRAWN	CHECKED	APPROVED
				MR	RW	CR	



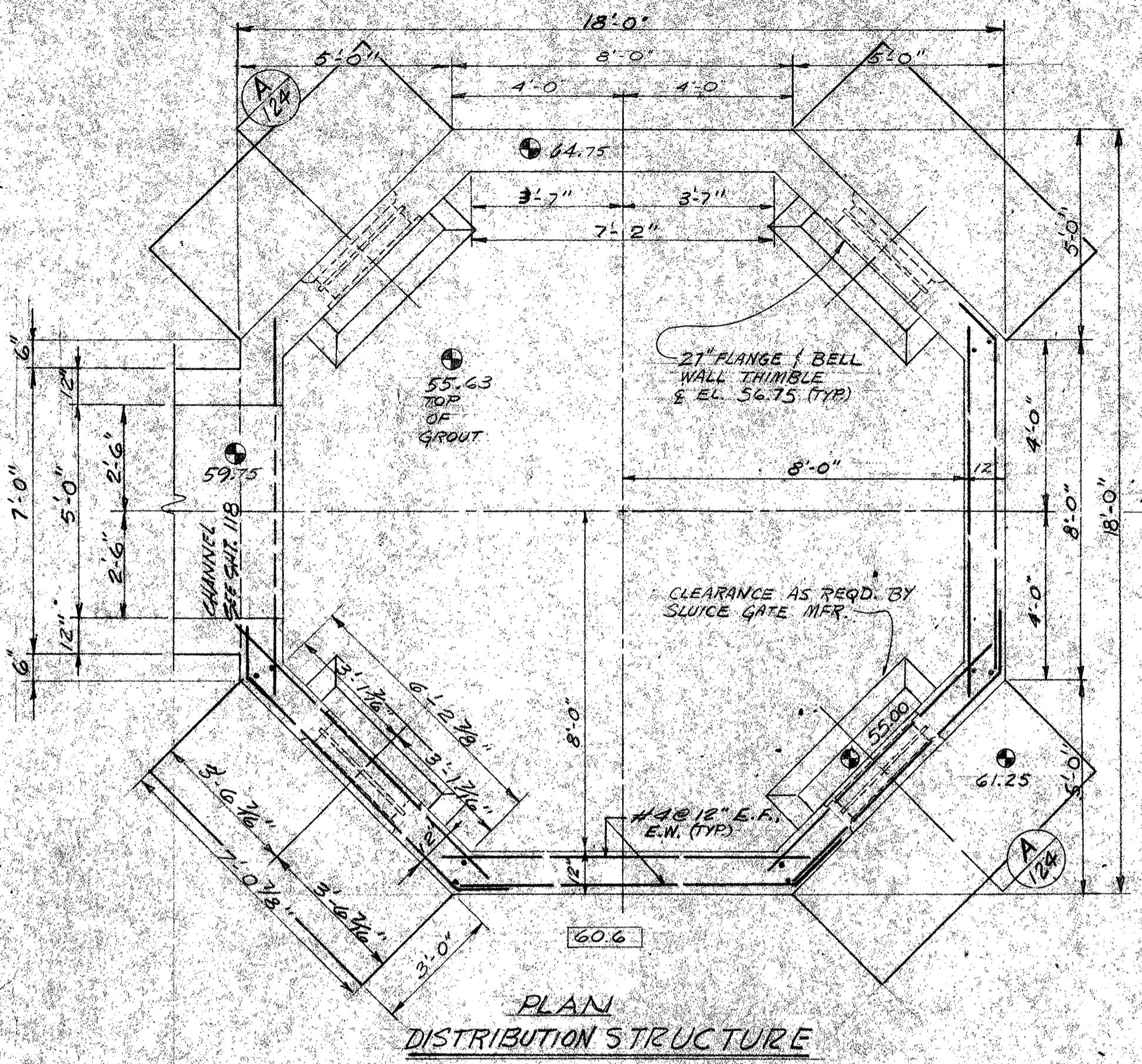
SUBMITTED BY BRILEY, WILD & ASSOCIATES No. 11632 STATE OF FLA. C. S. Richardson, P.E. PRINCIPAL PROJECT ENGINEER APPROVED:		NORTHEAST WASTEWATER TREATMENT FACILITY SECONDARY SETTLING TANKS - DETAILS CLEARWATER, FLA.		DATE: DEC. 1975 SCALE: 3/8" = 1'-0" FILE NO. 7236-2 A SHEET NO. 123 OF 142 S - 8494	
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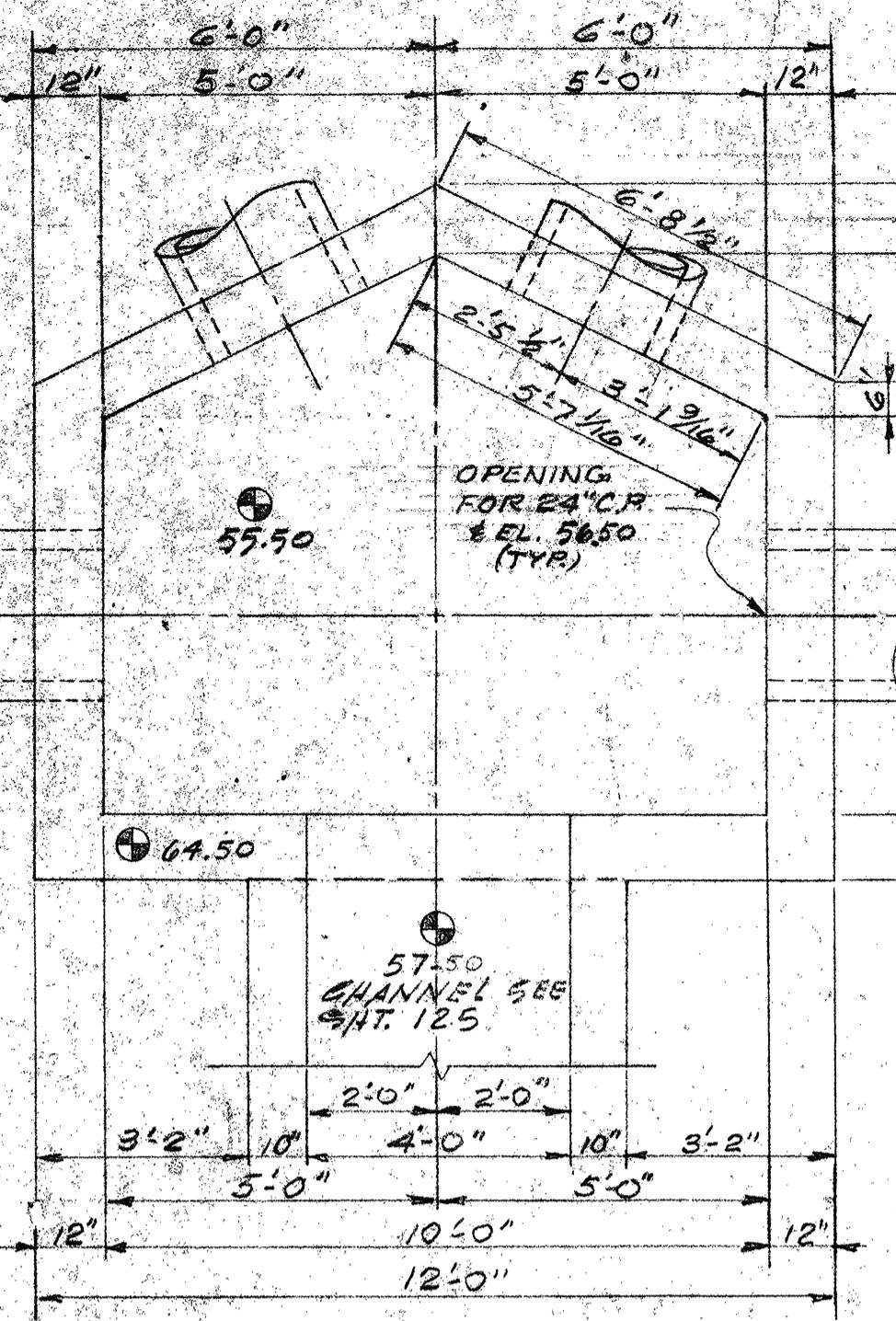
SCALE IN FEET  
SCALE:  $\frac{3}{8}$ " = 1'-0"

PROJ. NO.  
7236-2 A

FILE NO.  
S - 8494



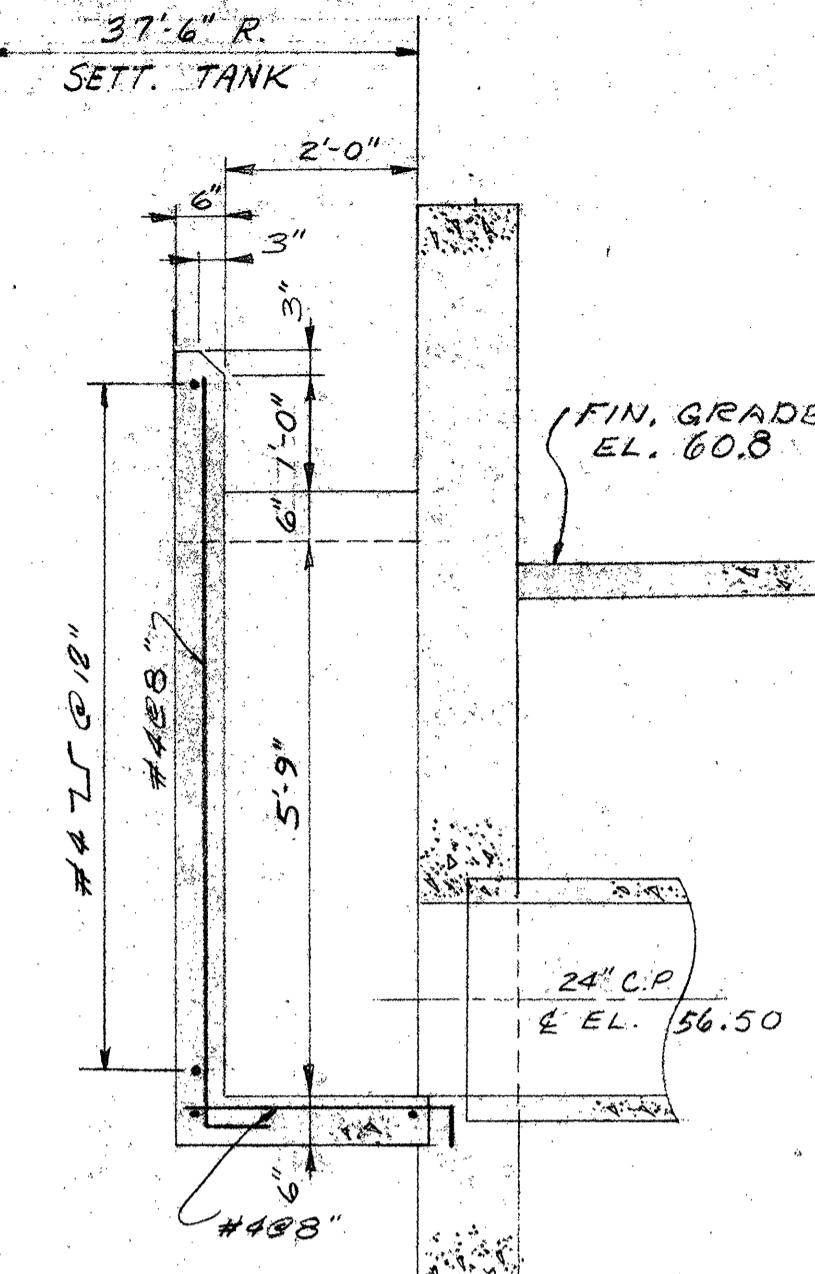
# PLAN DISTRIBUTION STRUCTURE



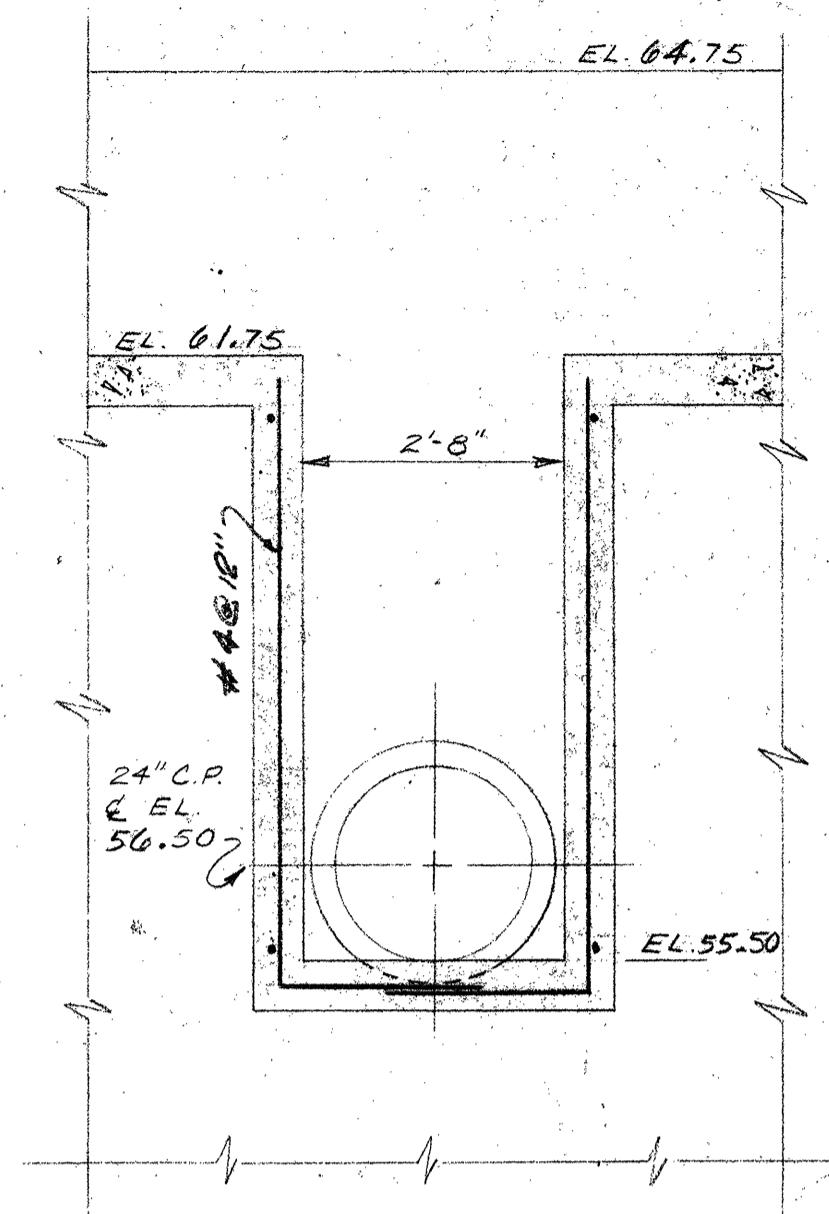
*NOTE: REINFORCE SAME AS  
DISTRIBUTION STRUCTURE*

# PLAN

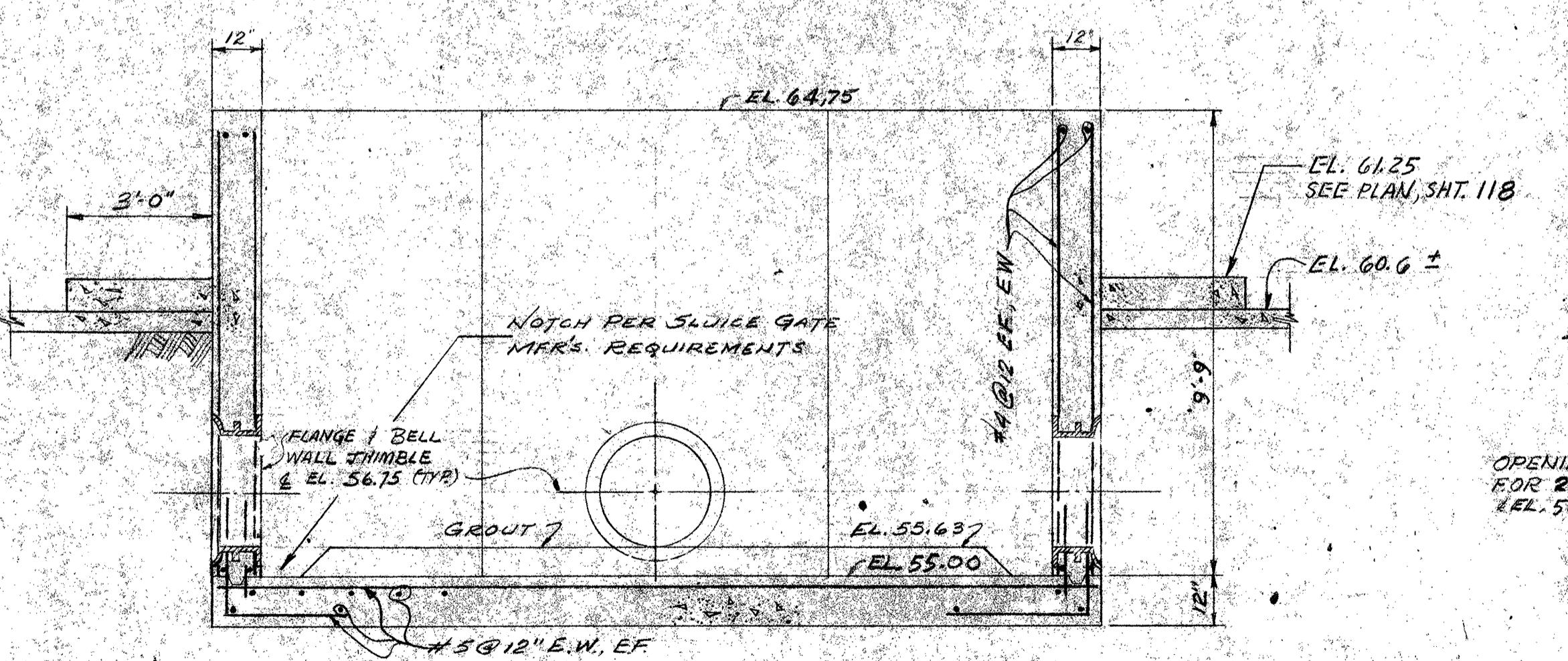
## COLLECTION STRUCTURE



## SECTION



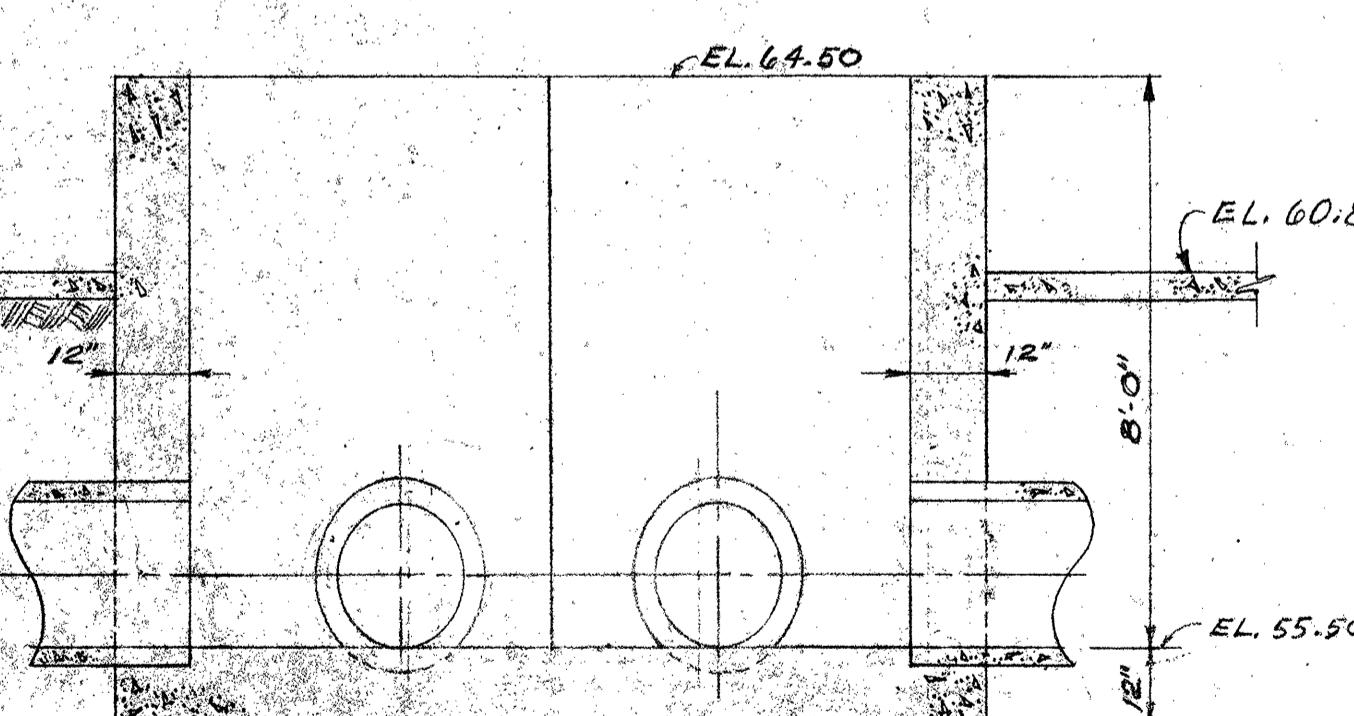
## ELEVATION



SECTION A  
1824

## DISTRIBUTION STRUCTURE

SCALE  $\frac{3}{8}$ " = 1'-0"



SECTION B  
124

## COLLECTION STRUCTURE

SCALE 3/8" = 1'-0"



**NORTHEAST WASTEWATER TREATMENT FACILITY  
SECONDARY SETTLING TANKS - DETAILS  
CLEARWATER, FLORIDA**

			DESIGNED	<i>John</i>	No. 11632	SUBMITTED BY:	BRUCE A. WILSON & ASSOCIATES
			DRAWN	R.W. B3	STATE OF	PRINCIPAL	<i>John B. Wilson</i>
REV. NO.	DATE.	REVISION	BY	CHECKED	RE	PROJECT ENGINEER	<i>John B. Wilson</i>
				APPROVED:			

STATE OF  
FLORIDA  
NOTARIZED IN TAMPA

SCALE IN FEET

SCALE:  $\frac{1}{2}$ " = 1'-0"

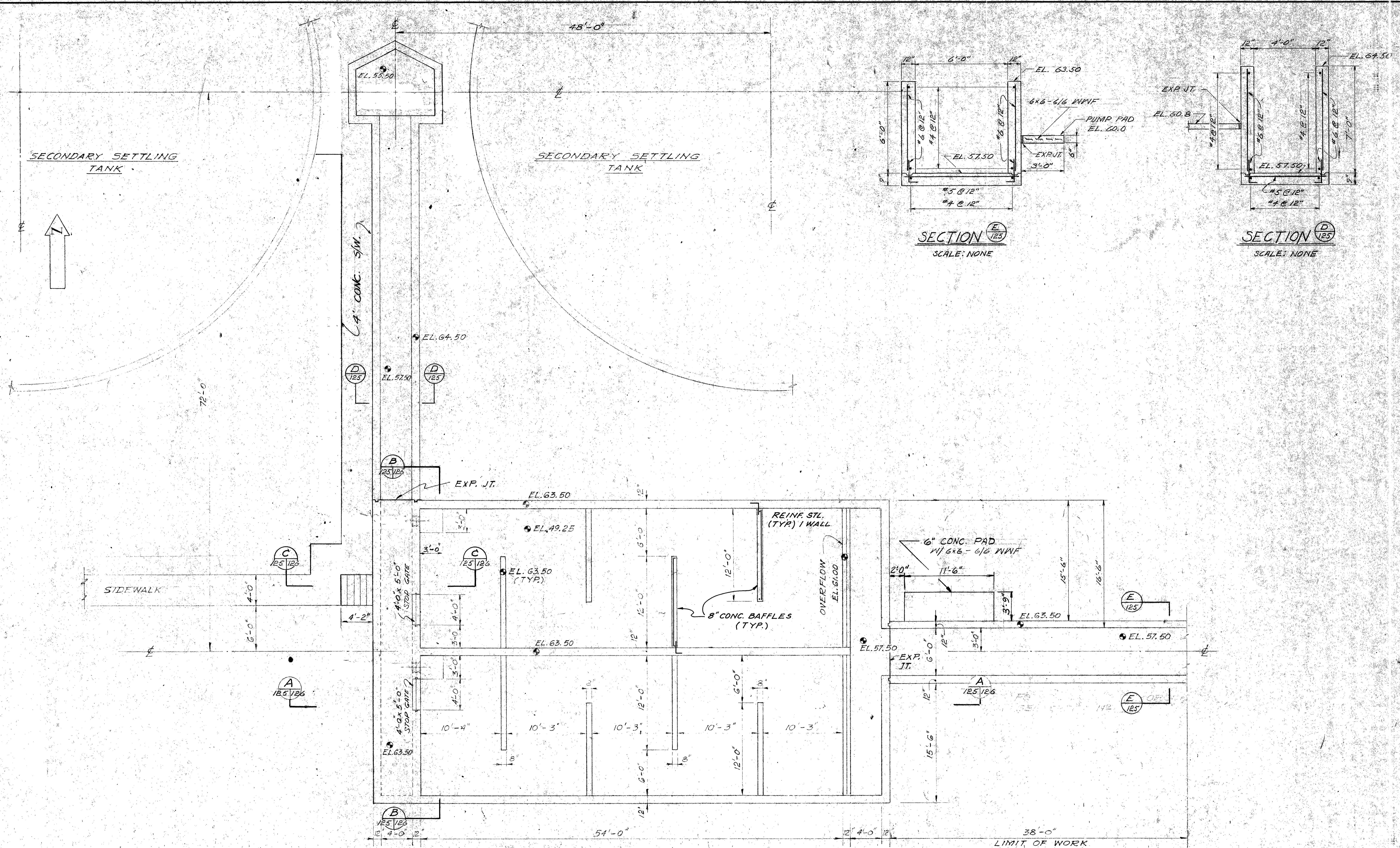
A horizontal scale bar with numerical markings at 0, 2, 4, 6, and 8. The text "200 METERS" is written below the scale.

SCALE IN FEET

100

DEC. 1975 | PROJ. NO. 7236-2A

AS SHOWN 1256-2A  
FILE NO.

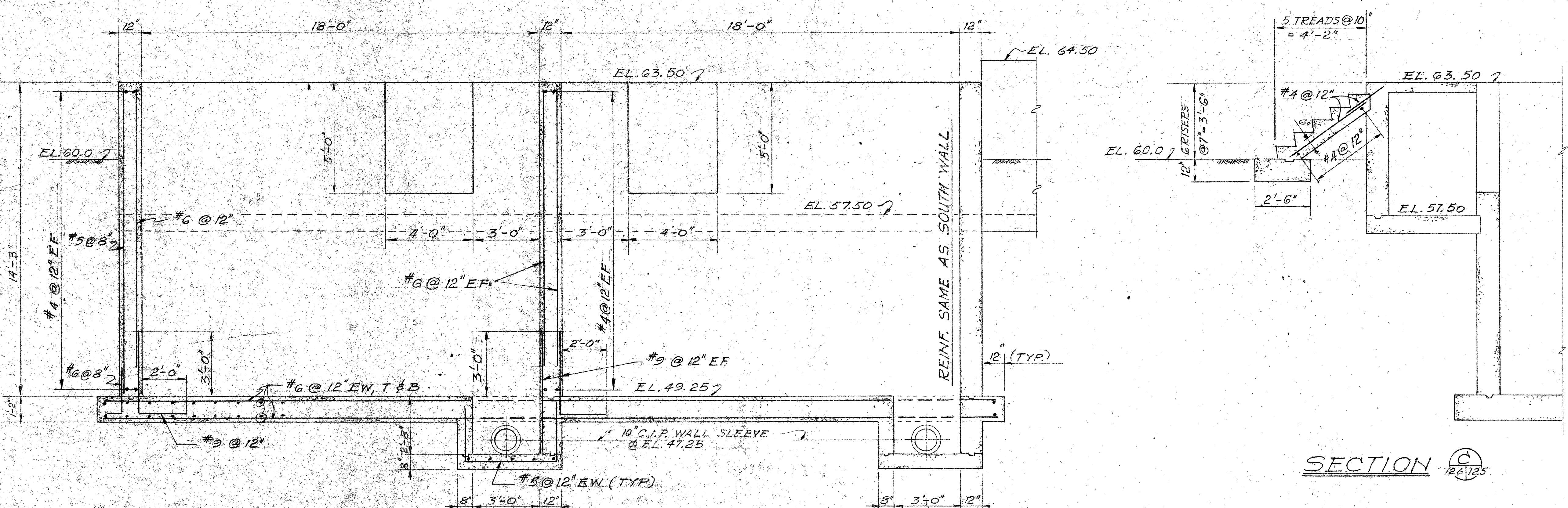
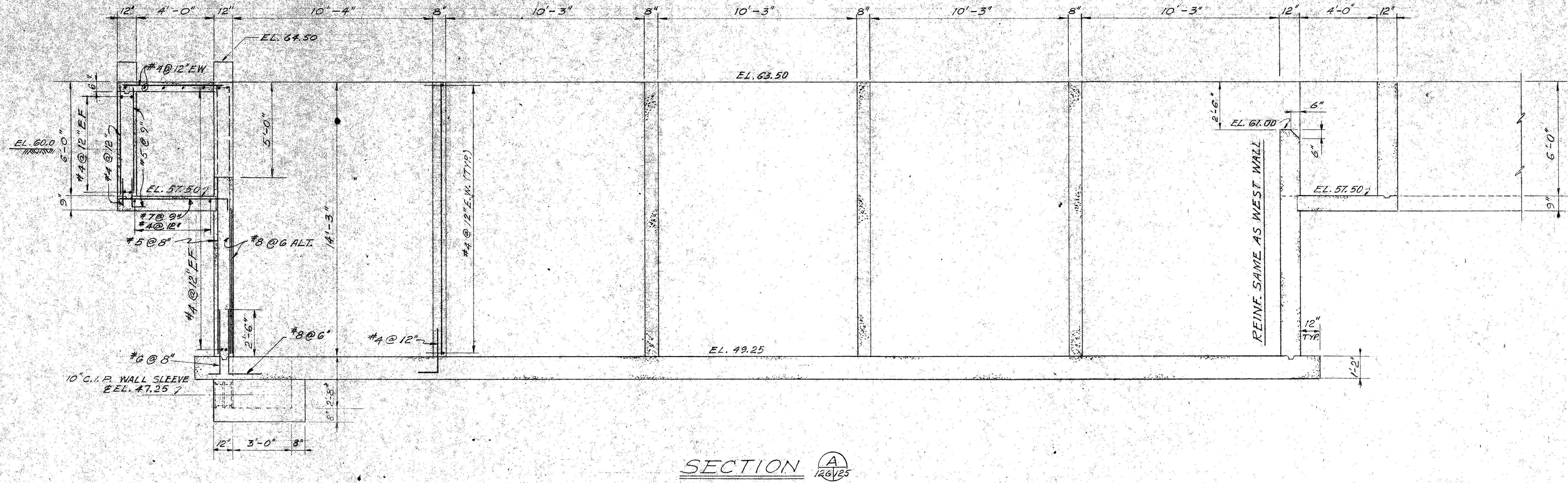


		DESIGNED	DRW.	SUBMITTED
REV. NO.	DATE	3-76	REV. PUMP PAD - ADDED S/W RZW	BRILEY, WILD & ASSOCIATES
BY	CHECKED	GH	JR	PRINCIPAL PROJECT ENGINEER C. Richardson 3/24/76
				APPROVED:

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

NORTHEAST WASTEWATER TREATMENT FACILITY  
CHLORINE DETENTION TANKS - PLAN  
CLEARWATER, FLA.

DATE: DEC. 1975  
SCALE: 3/16" = 1'-0"  
FILE NO. 7236-2A  
SHEET NO. 125 OF 142  
S - 8496



## SECTION

A circular metal stamp with a serrated outer edge. The top half contains the numbers "125" on the left and "125" on the right, separated by a vertical line. The bottom half contains the word "REGISTERED" on the left and "ENGINEERS" on the right, separated by a vertical line. The center of the stamp has the word "FLORIDA" at the top, "STATE OF" in the middle, and "NOV 1 1924" at the bottom.

*Briley, Wild & Associates*  
CONSULTING ENGINEERS  
SRMOND BEACH, FLA. CLEARW.

*Briley, Wild & Associates*  
CONSULTING ENGINEERS  
SRMOND BEACH, FLA. CLEARWATER, FLA.

**NORTHEAST WASTEWATER TREATMENT FACILITY  
CHLORINE DETENTION TANKS - SECTIONS  
CLEARWATER, FLORIDA**

DATE: DEC. 1975	PROJ. NO.
SCALE: 3/8 " = 1'-0"	7236 - 21
HEET NO. 126 OF 142	FILE NO.
	S-8497

A. CONCRETE CONSTRUCTION

- ALL CONCRETE SHALL BE CLASS AA HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3750 PSI AT THE END OF 28 DAYS, UNLESS OTHERWISE NOTED.
- CONCRETE FILL TO BE CLASS B UNLESS OTHERWISE NOTED.
- CONCRETE EXPOSED TO THE ELEMENTS SHALL BE AIR-ENTRAINED CONCRETE.
- ALL CONCRETE CONSTRUCTION AND REINFORCING BAR DETAILS SHALL CONFORM TO THE LATEST A.C.I. CODE AND MANUAL.
- ALL REINFORCING SHALL BE #615 GRADE 60 EXCEPT HOOPS AND STIRRUPS WHICH MAY BE #615 GRADE 40.
- UNLESS OTHERWISE NOTED, CONTINUOUS REINFORCEMENT SHALL BE LAPPED 30 BAR DIAMETERS FOR NO. 8 BARS AND SMALLER, 35 DIAMETERS FOR NO. 8 BARS AND SPLICES OF ADJACENT BARS SHALL BE STAGGERED.
- VERTICAL REINFORCEMENT IN COLUMN SPLICES SHALL BE LAPPED A MINIMUM OF 20 DIAMETERS.
- SPACERS OR TIE BARS SHALL BE AS NOTED ON DRAWINGS OR A MINIMUM OF NO. 4 AT 18".
- FOR BEAMS AND GIRDERS PROVIDE NO. 8 SPACER BARS AT 5'-0" ON CENTER WHERE TWO LAYERS OF REINFORCEMENT ARE USED.
- FOR CONCRETE BEAMS AND GIRDERS DEEPER THAN 20 INCHES, THE CONTRACTOR SHALL PROVIDE CONTINUOUS NO. 5 TIE BARS AT 12 INCHES ON CENTERS ON EACH FACE, UNLESS OTHERWISE SHOWN.
- UNLESS OTHERWISE NOTED, MAIN REINFORCING STEEL SHALL BE PLACED AND MAINTAINED AT THE MINIMUM CLEAR DISTANCES FROM SURFACE OF CONCRETE AS SHOWN IN TABLE BELOW. TIES, STIRRUPS AND SPACER BARS NO. 4 AND SMALLER ARE NOT CONSIDERED AS MAIN REINFORCING STEEL AND MAY PROJECT INTO THE MINIMUM CLEAR DISTANCES GIVEN.
- ALL CONCRETE WALLS, SLABS AND BEAMS SHALL BE BUILT TO MINIMIZE THE EFFECT OF CONCRETE SHRINKAGE, BY PLACING ALTERNATING SECTIONS OR PLACING SLABS IN CHECKER BOARD STYLE. ALLOW SUFFICIENT CURING TIME FOR INITIAL CONCRETE SHRINKAGE BEFORE PLACING SKIPPED SECTIONS.
- AT LEAST TWO HOURS SHALL ELAPSE AFTER DEPOSITING CONCRETE IN PIERS, WALLS AND COLUMNS BEFORE DEPOSITING IN BEAMS OR SLABS SUPPORTED THEREON.
- CONSTRUCTION JOINTS SHALL BE LOCATED WHERE SHOWN ON THE DRAWINGS.
- CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED BY EQUIPMENT AND PIPING WHETHER OR NOT INDICATED ON THE DRAWINGS.
- WATERSTOP SHALL BE PROVIDED IN ALL JOINTS WHETHER INDICATED OR NOT WHEN SUCH JOINTS SEPARATE A DRY STRUCTURE AND A SOURCE OF WATER (A TANK WHICH CAN BE EMPTIED SHALL BE CONSIDERED A DRY STRUCTURE) WATERSTOP SHALL BE PVC OF THE SIZE AND SHAPE INDICATED ON THIS SHEET.
- EXPOSED CONCRETE EDGES SHALL HAVE A "V" CHAMFER, SUCH AS COLUMNS, PILASTERS, BEAMS, CURBS AND EQUIPMENT PADS.
- DOWELS TO BE SET IN EXISTING CONCRETE SHALL BE BONDED WITH EPOXY GROUT AS DETAILED ON THIS SHEET. THE EPOXY GROUT SHALL CONSIST OF EPOXY RESIN AND FEDERAL FINE SAND MIXED IN RATIO OF 1:1. THE EPOXY RESIN SHALL BE COLMA PATCHING COMPOUND AS MANUFACTURED BY SIKA CHEMICAL COMPANY, PERMAGLUE AS MANUFACTURED BY THE PERMAGLUE CORPORATION OF AMERICA OR APPROVED EQUAL.
- ALL FOOTINGS AND SLABS ON SOIL SHALL BE PLACED ON UNDISTURBED SOIL OR ON FILL COMPACTED TO 90% DENSITY PER AASHO-T99.
- FOUNDATIONS ON SOIL ARE DESIGNED BASED ON A MAXIMUM ALLOWABLE SOIL BEARING VALUE OF 2 TONS PER SQ. FT.
- THE CONTRACTOR SHALL PROVIDE SUPPORT FOR WALLS WITH FILL ON ONE SIDE BY SHORING OR PLACEMENT OF EARTH AS APPROVED BY THE ENGINEER UNTIL THE FLOOR SLAB IS IN PLACE. BACKFILL AGAINST CANTILEVER WALLS SHALL NOT BE PLACED UNTIL CONCRETE HAS GAINED ITS 28 DAY STRENGTH.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL STRUCTURES AGAINST FLOATATION DURING CONSTRUCTION. COMPLETED STRUCTURES HAVE BEEN DESIGNED AGAINST FLOATATION WITH BACKFILL IN PLACE.

B. CONCRETE EXCAVATION

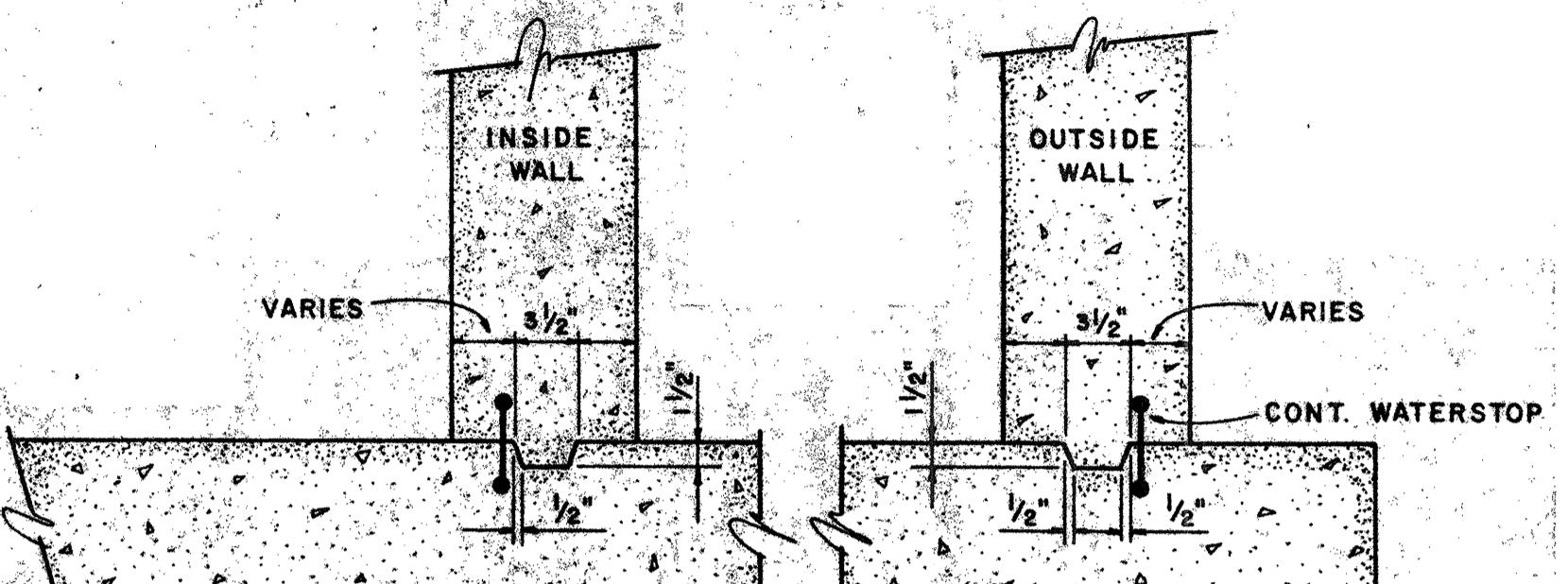
- THE CONTRACTOR SHALL BE RESPONSIBLE, TO SATISFACTION OF THE ENGINEER, FOR TAKING ALL NECESSARY MEASURES TO PREVENT DAMAGE TO EXISTING STRUCTURES DURING CONCRETE EXCAVATION.
- IN CUTTING AND CHIPPING OF EXISTING CONCRETE, THE CONTRACTOR SHALL REMOVE ANY REINFORCING OR OTHER EMBEDDED ITEMS WHICH CANNOT BE BENT INTO AREAS WHERE NEW CONCRETE WOULD FULLY COVER THEM.
- THE CONTRACTOR SHALL PATCH AND FINISH, AFTER CONCRETE EXCAVATION, ALL EXPOSED SURFACES TO MATCH EXISTING AREAS TO A SATISFACTORY AND WORKMANLIKE MANNER.

C. STEEL CONSTRUCTION

- ALL STRUCTURAL STEEL SHALL BE ASTM-A36 AND SHALL BE DETAILED AND ERECTED IN ACCORDANCE WITH THE LATEST "A.I.S.C. MANUAL AND SPECIFICATIONS FOR BUILDING CONSTRUCTION".
- SHOP AND FIELD WELDING SHALL BE IN ACCORDANCE WITH THE "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.
- SHOP CONNECTIONS, UNLESS NOTED SPECIFICALLY, SHALL BE MADE WITH "V" DIAMETER (FRICTION TYPE) HIGH STRENGTH BOLTS, "V" DIAMETER RIVETS OR BY WELDING. GIRTS SHALL BE CONNECTED WITH A MINIMUM OF NINE UNFINISHED BOLTS WITH SUITABLE LOCK WASHERS AND HEX NUTS.
- FIELD CONNECTIONS, UNLESS NOTED SPECIFICALLY, SHALL BE MADE WITH "V" DIAMETER HIGH STRENGTH BOLTS A-325; BRACING AND BRIDGING MEMBERS MAY BE CONNECTED WITH UNFINISHED BOLTS USING SUITABLE LOCK WASHERS.
- ALL BRACING SHALL BE DETAILED TO AVOID ECCENTRIC CONNECTIONS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ONE WASHER AND ONE HEX NUT WITH ALL ANCHOR BOLTS.
- ELEVATIONS OF TOP OF STEEL NOTED ON THE DRAWINGS REFER TO TOP OF FLANGE.
- PROVIDE TEMPORARY TIES AND BRACING WHERE NECESSARY DURING CONSTRUCTION, AND UNTIL THE BUILDING IS COMPLETED.

D. ALUMINUM CONSTRUCTION

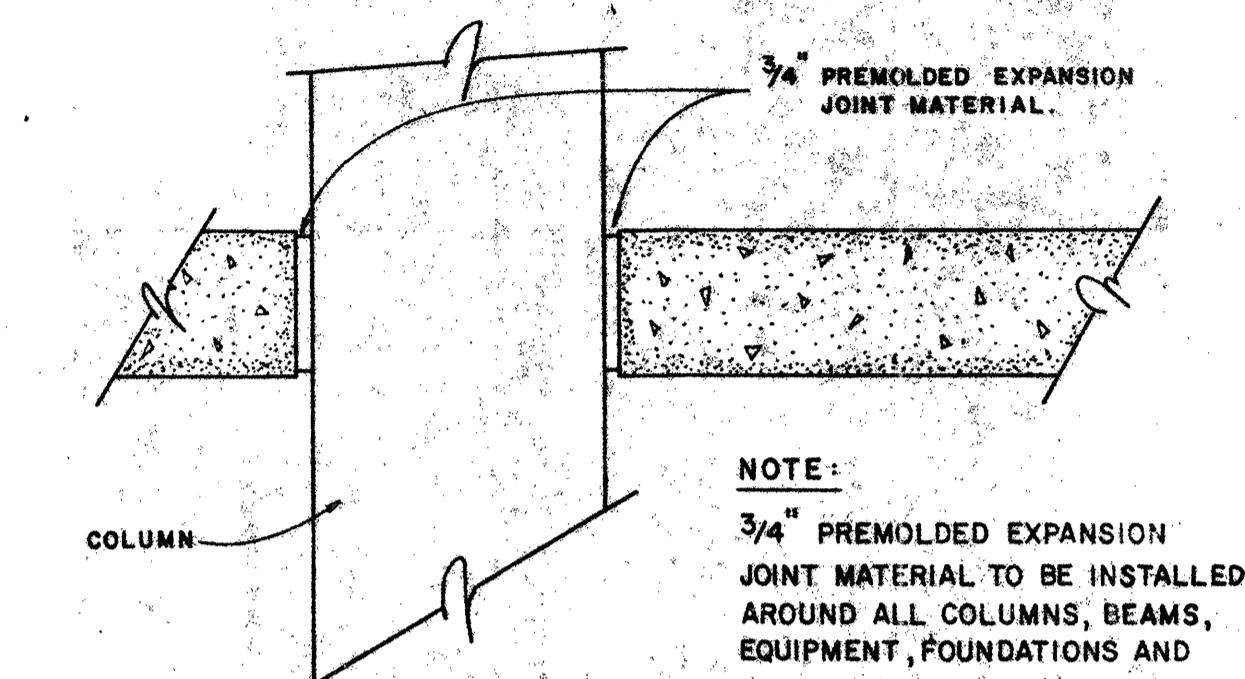
- STRUCTURAL ALUMINUM SHALL BE ALLOY 6061-T6 AND SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE LATEST "SPECIFICATIONS FOR STRUCTURES OF ALUMINUM ALLOY 6061-T6" AS PUBLISHED BY A.S.C.E.
- FIELD CONNECTIONS, UNLESS NOTED SPECIFICALLY, SHALL BE MADE WITH STAINLESS STEEL BOLTS AS NOTED ON THE DRAWINGS AND IN THE SPECIFICATION.
- ALUMINUM IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH INERTOL STANDARD THICK OR APPROVED EQUAL.



CONSTRUCTION JOINT CENTERED ON WALL  
WATERSTOP SET TO OUTSIDE ON OUTSIDE WALLS &  
SET ON EITHER SIDE ON INSIDE WALLS.

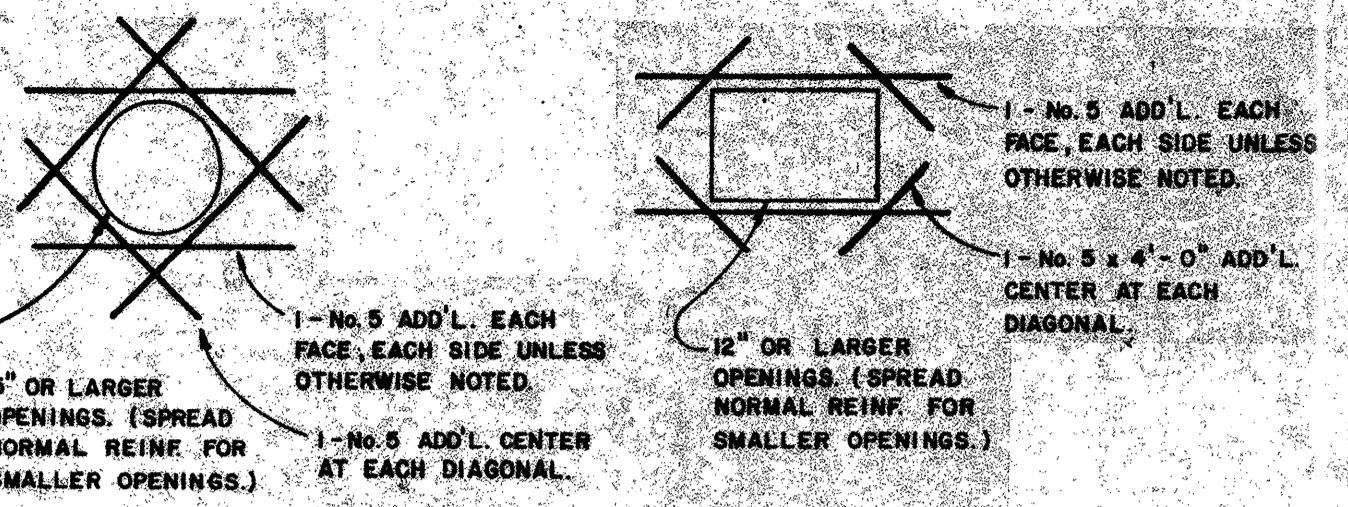
CONSTRUCTION JOINT & WATERSTOP DETAIL

NO SCALE



EXPANSION JOINT DETAIL

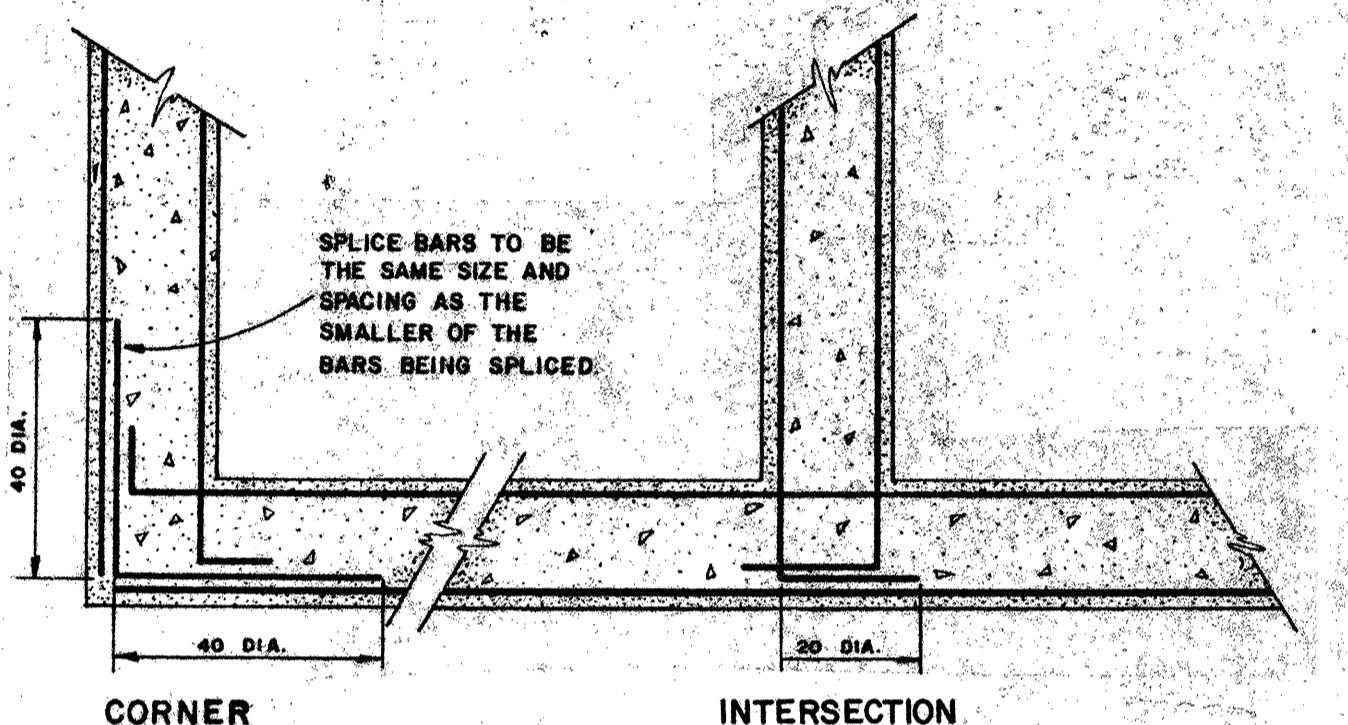
SCALE: 1 1/2" = 1'-0"



REINFORCEMENT AT ROUND OPENINGS

NO SCALE

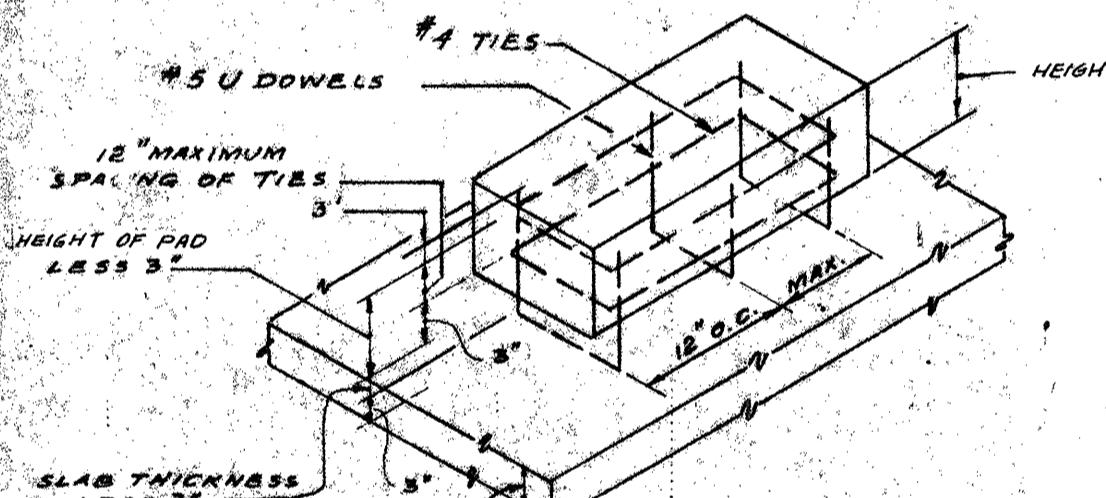
WALL PENETRATION DETAILS



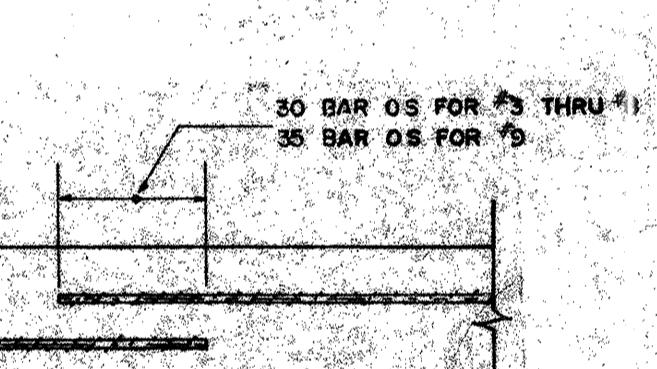
WALL REINFORCING DETAILS

NO SCALE

CLEAR CONCRETE COVER OVER REINFORCEMENT EXPOSURE					
STRUCTURAL ELEMENT	AIR	WATER	SEWAGE	AIR OVER LIQUID	EARTH ON FORMED SURFACES
SLABS	3/4"	1"	1 1/2"	1"	-
BEAMS	1 1/2"	2"	2"	1 1/2"	2"
COLUMNS	1 1/2"	1 1/2"	2"	1 1/2"	1/2"
WALLS	1"	1 1/2"	2"	1 1/2"	1/2"
FOOTINGS	-	2"	-	-	2"



TYPICAL EQUIPMENT PAD DETAIL



RE-BAR LAP

NO SCALE



TYPICAL WATERSTOP DETAILS

NOTE: ALL WATERSTOPS SHALL BE PVC OF THE MULTI-RIB TYPE. DURING CONC. PLACEMENT WS. SHALL BE SECURELY HELD IN PLACE TO PREVENT BENDING OR DISPLACEMENT BY WIRING TO REINFORCING OR OTHER ACCEPTABLE METHOD.

DEPTH OF HOLE 13 MM. FOR #4 DOWEL AND SMALLER. NORMAL DEPTH FOR EACH 1/8 ADDITION TO DOWEL DIA.

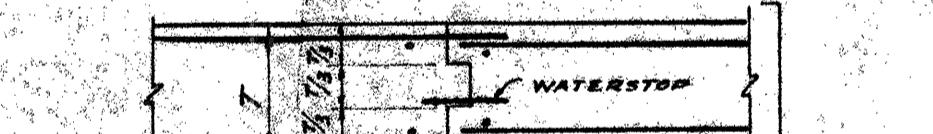
HOLE SHALL BE CLEAN, DRY AND FILLED WITH EPOXY MORTAR. DOWEL TO BE TAPEGED GENTLY INTO HOLE AS GENERAL NOTE 16 FOR EPOXY.

DIAMETER OF HOLE APPROX. EQUAL TO NOMINAL DIAMETER OF DOWEL PLUS DEFORMATIONS, BUT SHALL NOT EXCEED 1/8" LARGER THAN NOMINAL BAR DIAMETER.

DETAIL

DOWEL SET INTO EXIST. CONCRETE

NO SCALE



CONSTRUCTION JOINT IN WALLS & SLABS

CUT ALTERNATE BARS  
SCORE ON EXPOSED SIDE ONLY

CONTROL JOINT IN WALLS  
1" JOINT SEALER INSIDE FACE  
1" PREMOLDED FILLER

WATERSTOP  
WATERSTOP

(DOWEL) SEE DETAIL THIS SHEET

EXPANSION JOINT

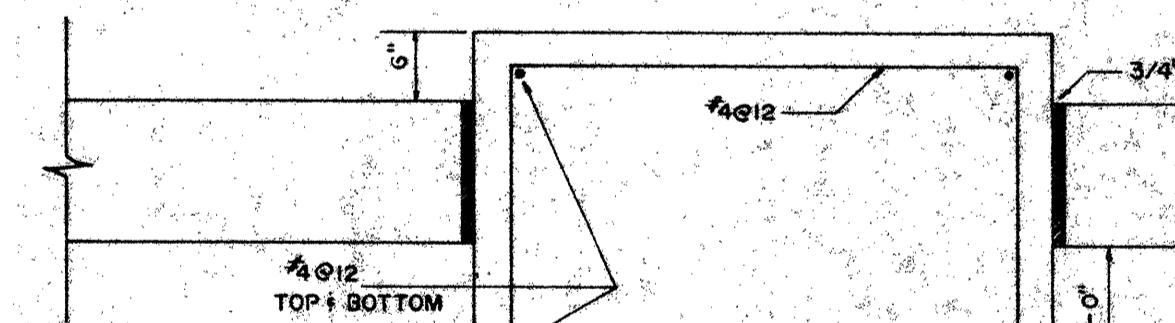
TYPICAL JOINT DETAILS

NO SCALE

EXISTING CONCRETE TO BE CLEANED IN ACCORDANCE W/M.R.'S RECOMMENDATIONS BEFORE APPLYING EPOXY. EPOXY COMPOUND AS MFD. BY SIKA CHEM. CORP. OR APPROVED EQUAL.

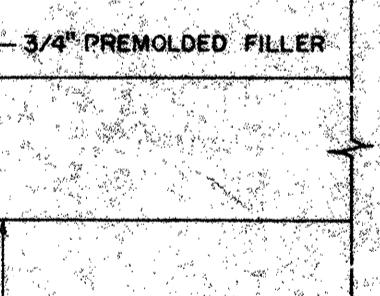
DETAIL  
BONDING TO EXIST. CONC.

NO SCALE



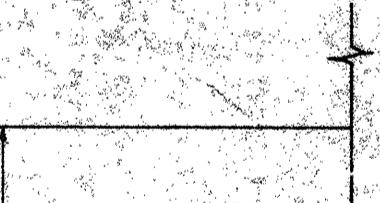
HEAVY EQUIPMENT FOUNDATION  
VIBRATION ISOLATION  
SEISMIC

NO SCALE



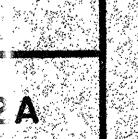
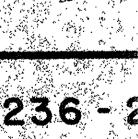
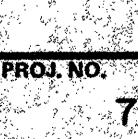
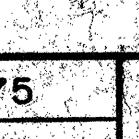
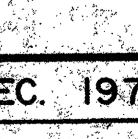
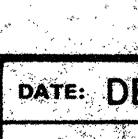
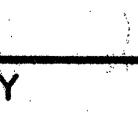
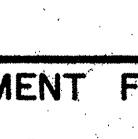
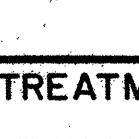
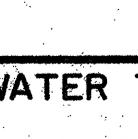
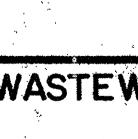
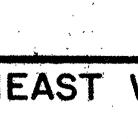
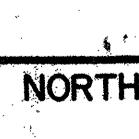
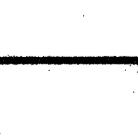
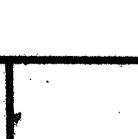
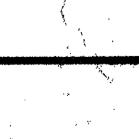
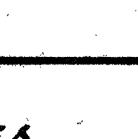
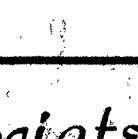
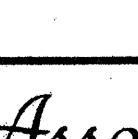
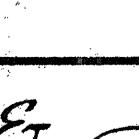
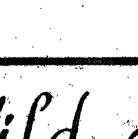
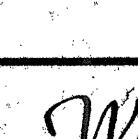
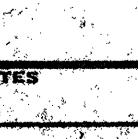
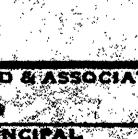
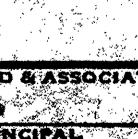
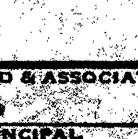
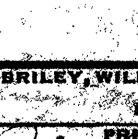
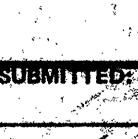
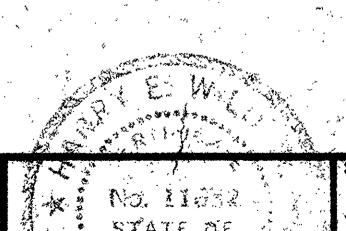
STANDARD DETAILS

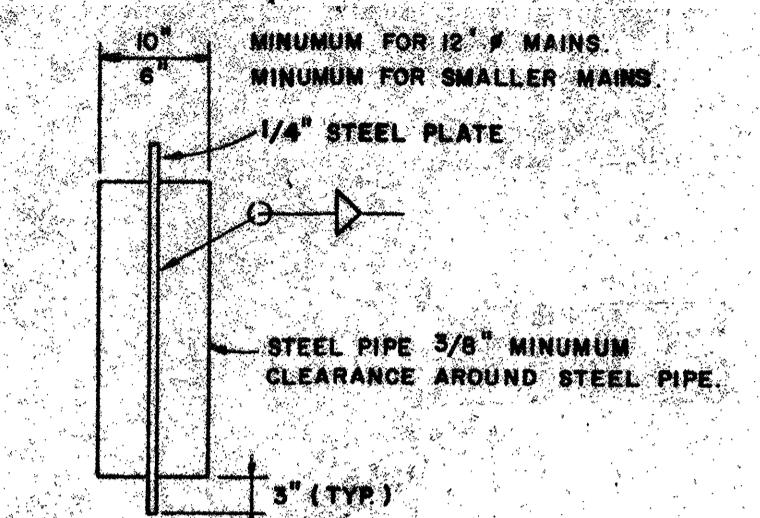
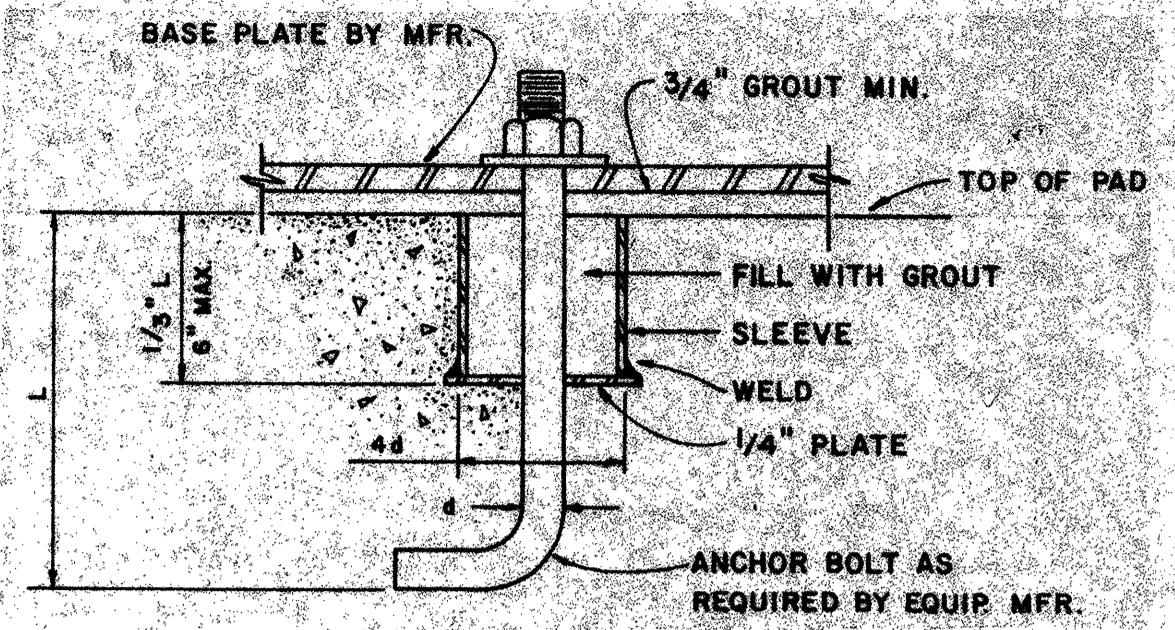
NO SCALE



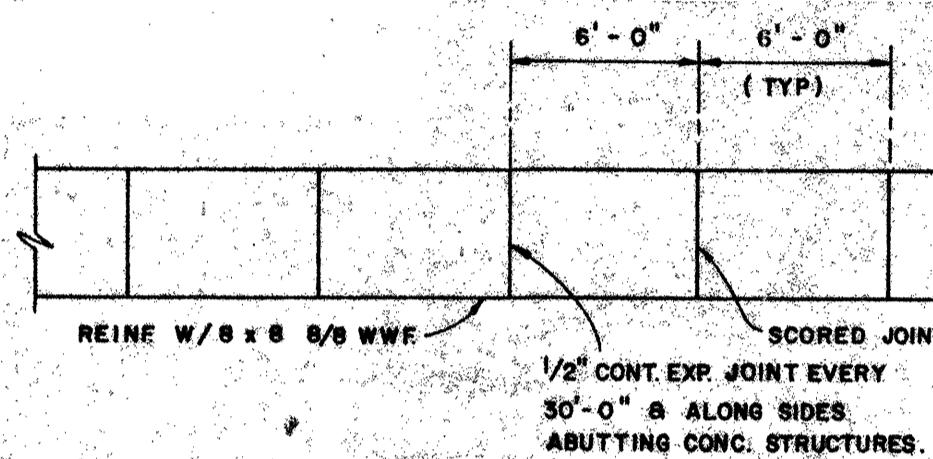
STANDARD DETAILS

NO SCALE



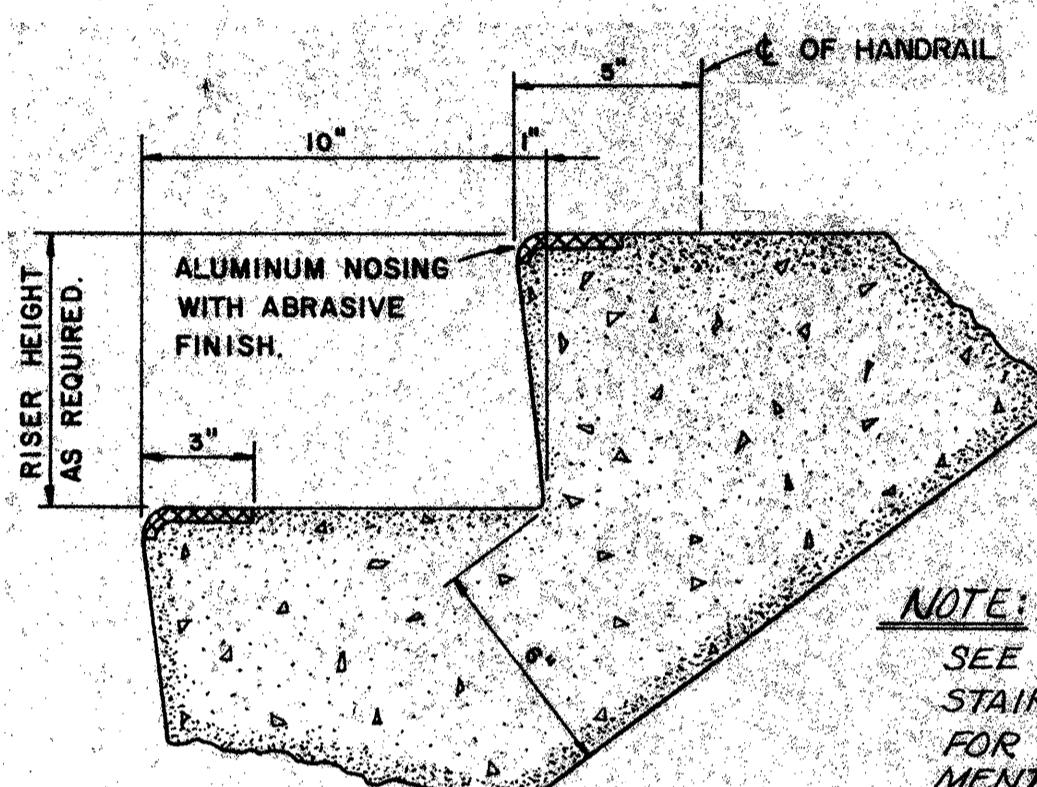


**STEEL PIPE WALL SLEEVE DETAIL**  
NO SCALE



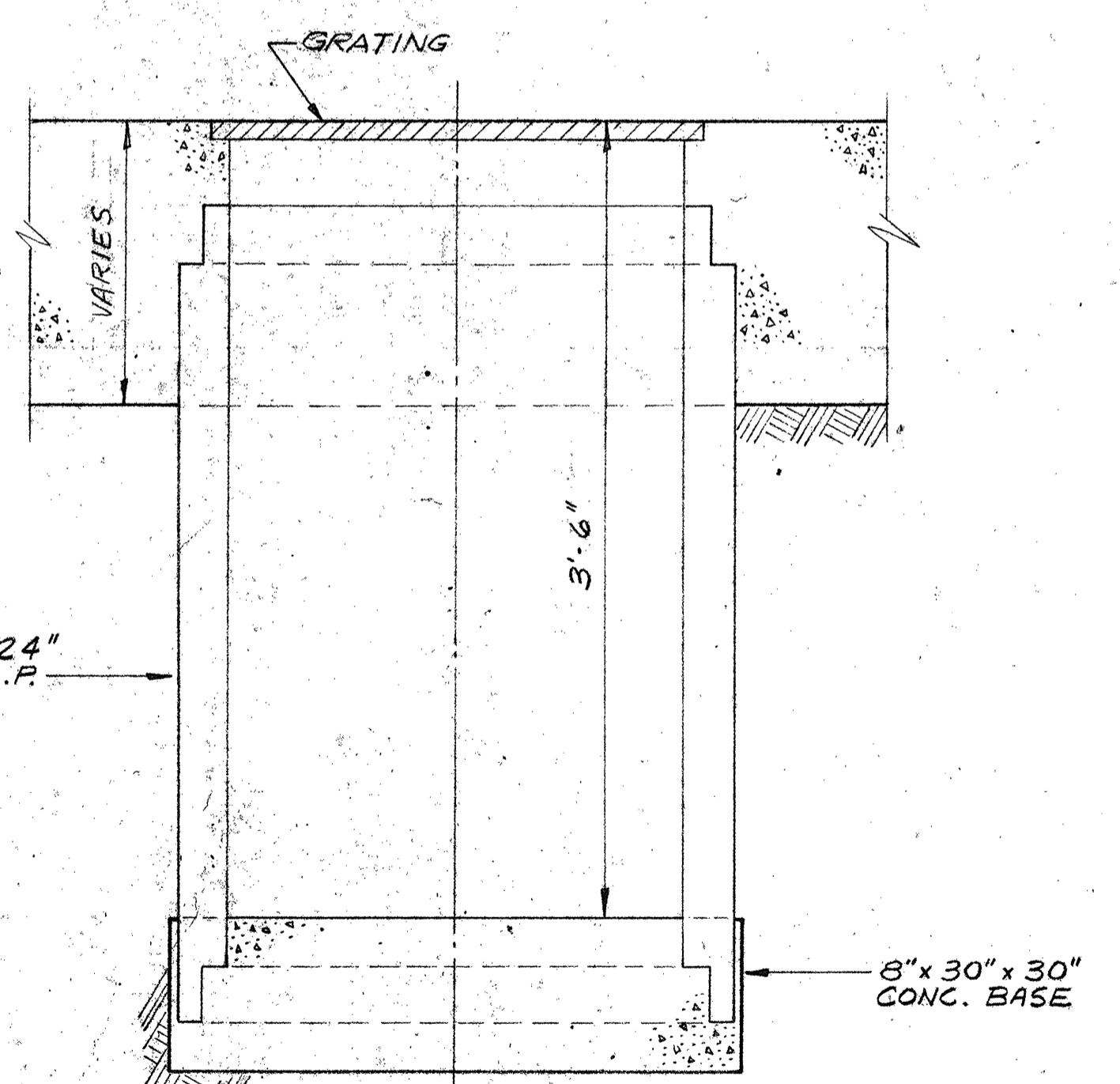
NOTE: 4" THICK CONC. SIDEWALKS.

**SIDEWALK DETAIL**  
NO SCALE



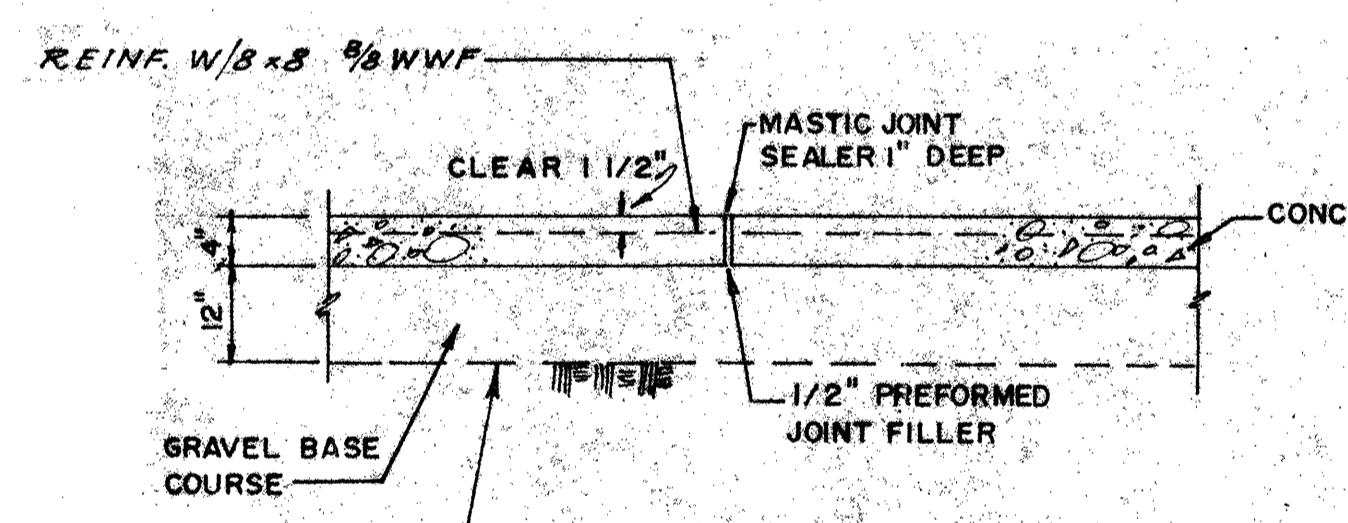
NOTE:  
SEE SPECIFIC  
STAIR DETAILS  
FOR REINFORCE-  
MENT SIZES &  
LOCATION.

**TYPICAL CONCRETE STAIR DETAIL**  
NO SCALE



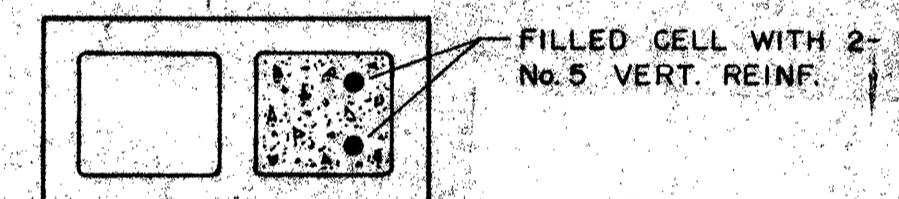
### SUMP - DETAIL

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

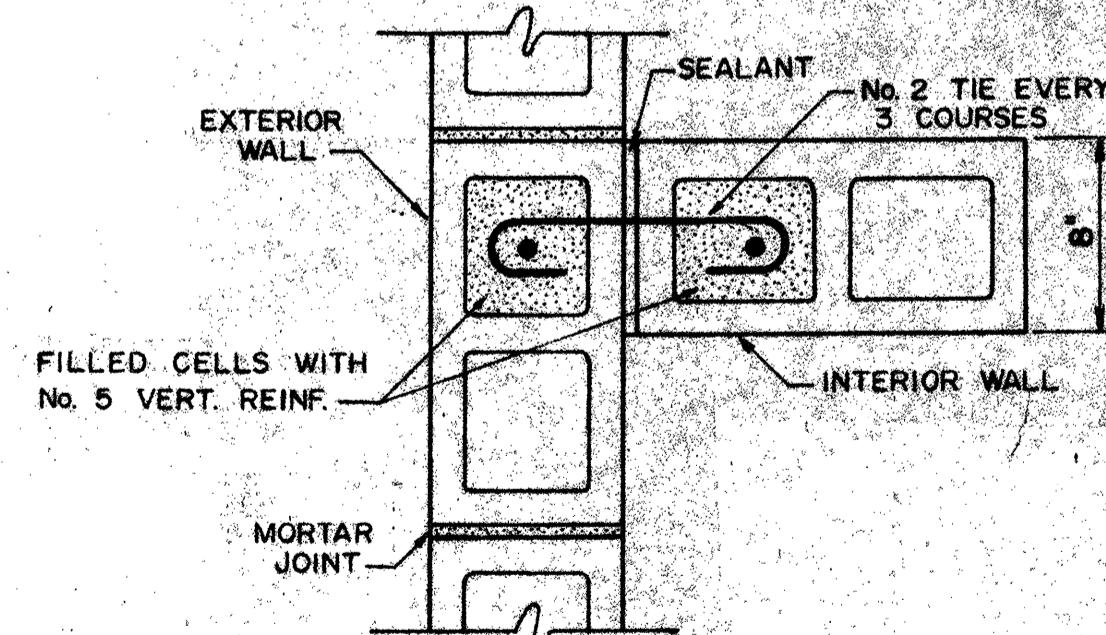


WHERE CONC. WALKWAYS ABUT STRUCTURES  
USE 1/2" PREFORMED JOINT FILLER 1"  
DEEP MASTIC JOINT SEALER.

**FORMAT FOR EXPANSION JOINTS FOR  
CONCRETE WALKWAYS**

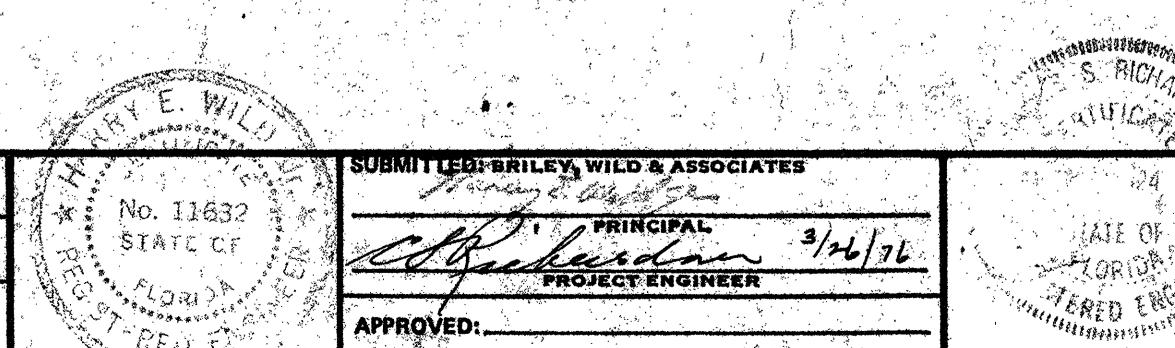


**CONCRETE BLOCK DETAILS  
AT OPENINGS**  
SCALE: 1/2" = 1'-0"



**WALL INTERSECTION DETAIL**  
SCALE: 1/2" = 1'-0"

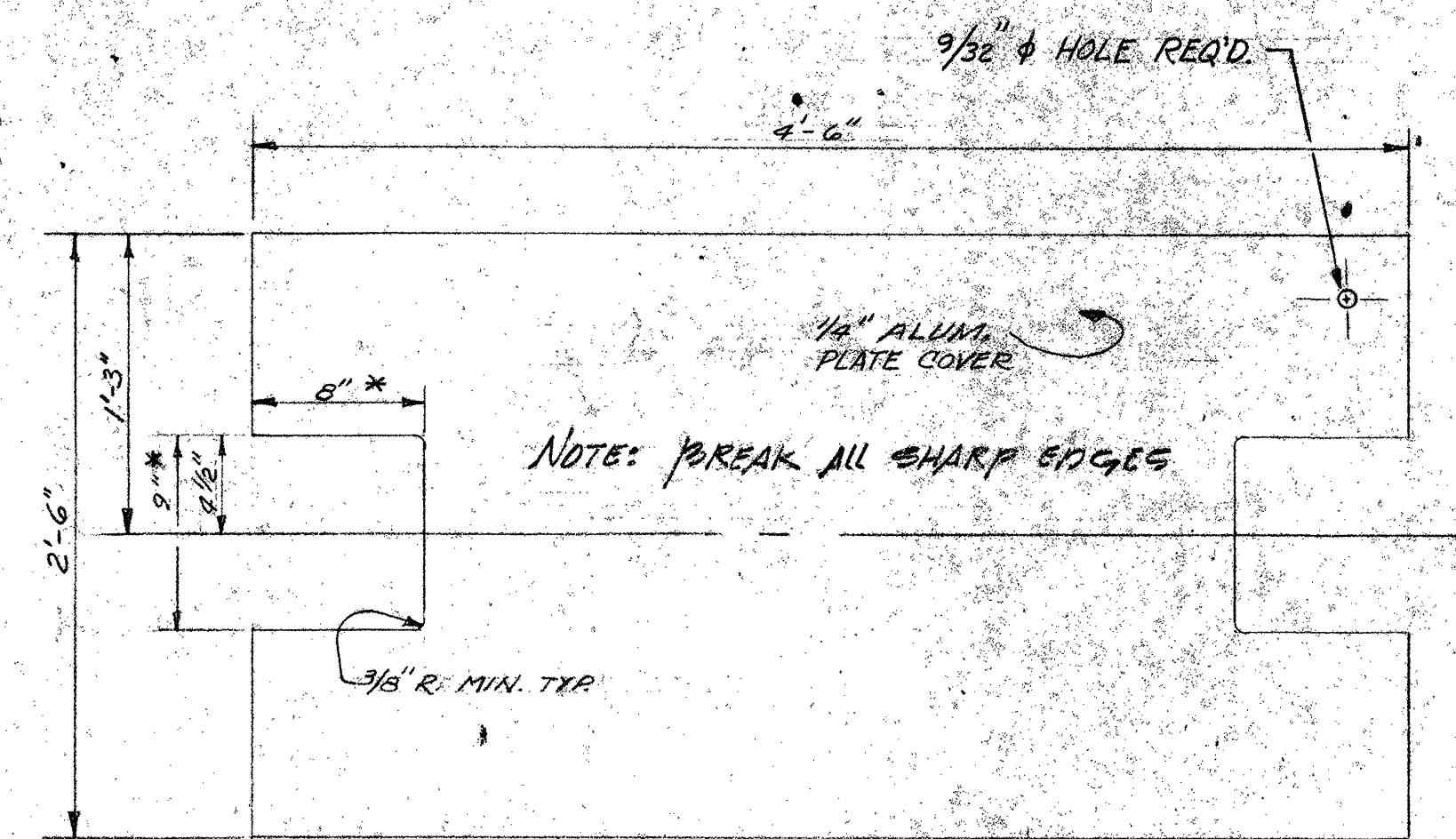
REV. NO.	DATE	REVISION	BY	DESIGNED	DRAWN	CHECKED



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

NORTHEAST WASTEWATER TREATMENT FACILITY  
STANDARD DETAILS  
CLEARWATER, FLORIDA

DATE: DEC. 1975  
PROJ. NO.  
7236-2A  
SCALE: AS SHOWN  
FILE NO.  
S-8499  
SHEET NO. 128 OF 142

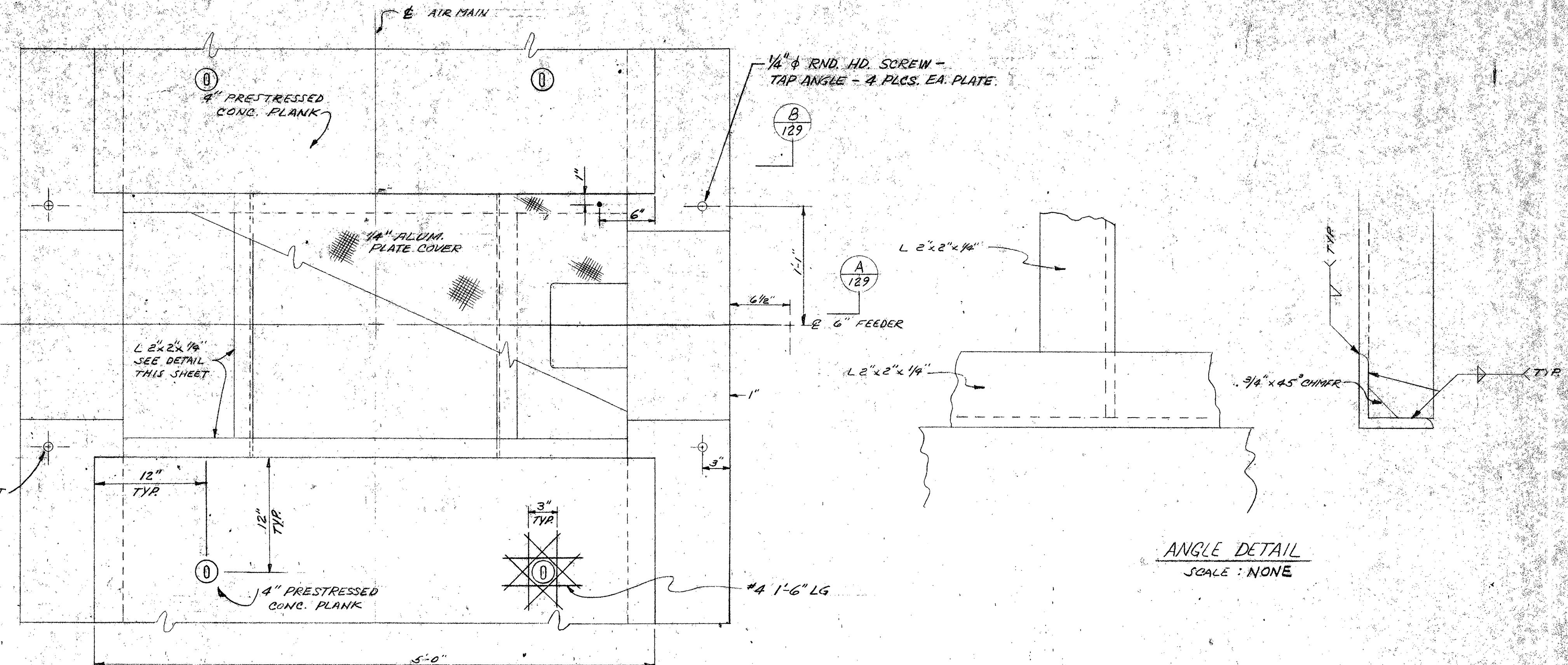


ALUM. PLATE COVER DETAIL

SCALE:  $1\frac{1}{2}'' = 1'-0''$

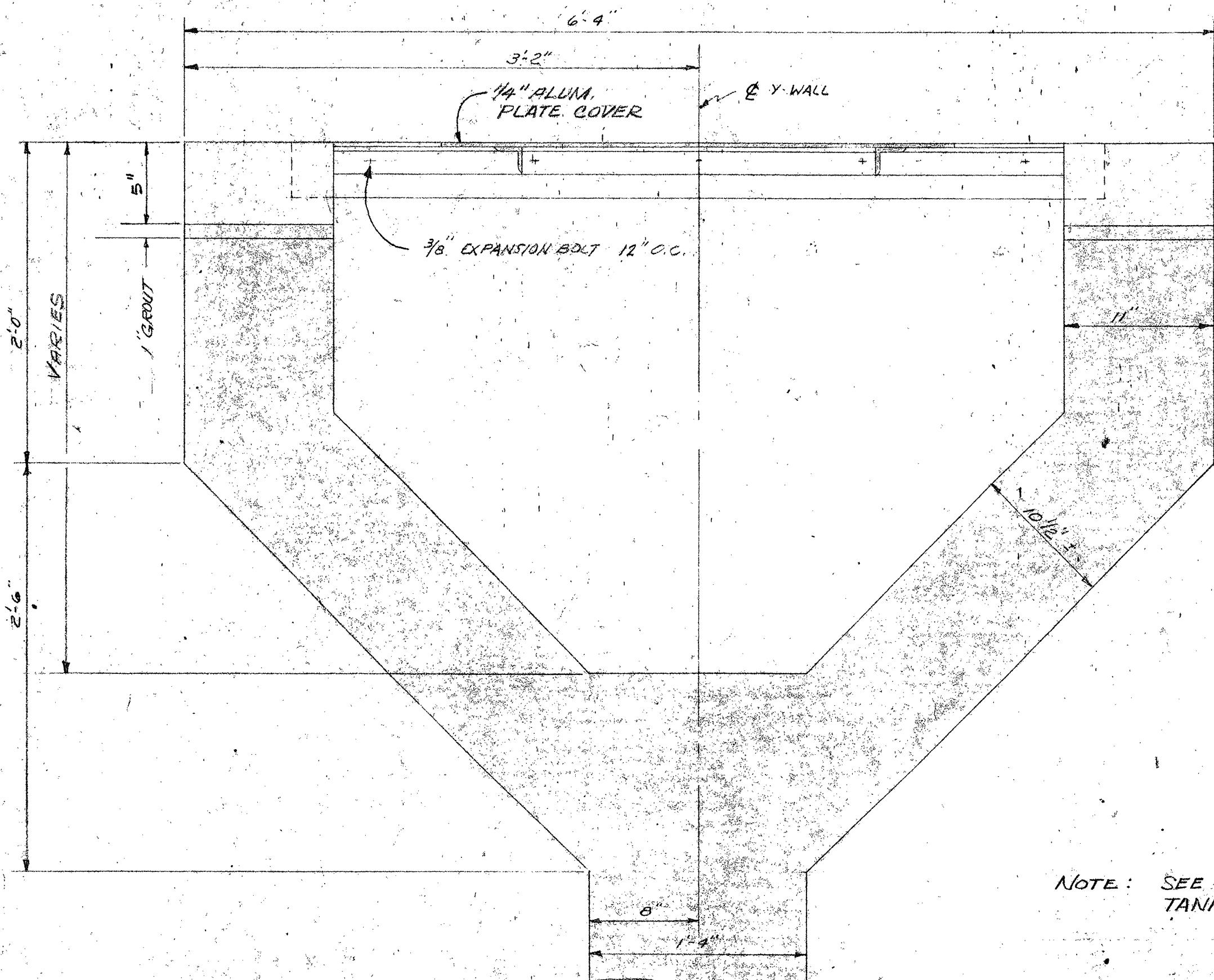
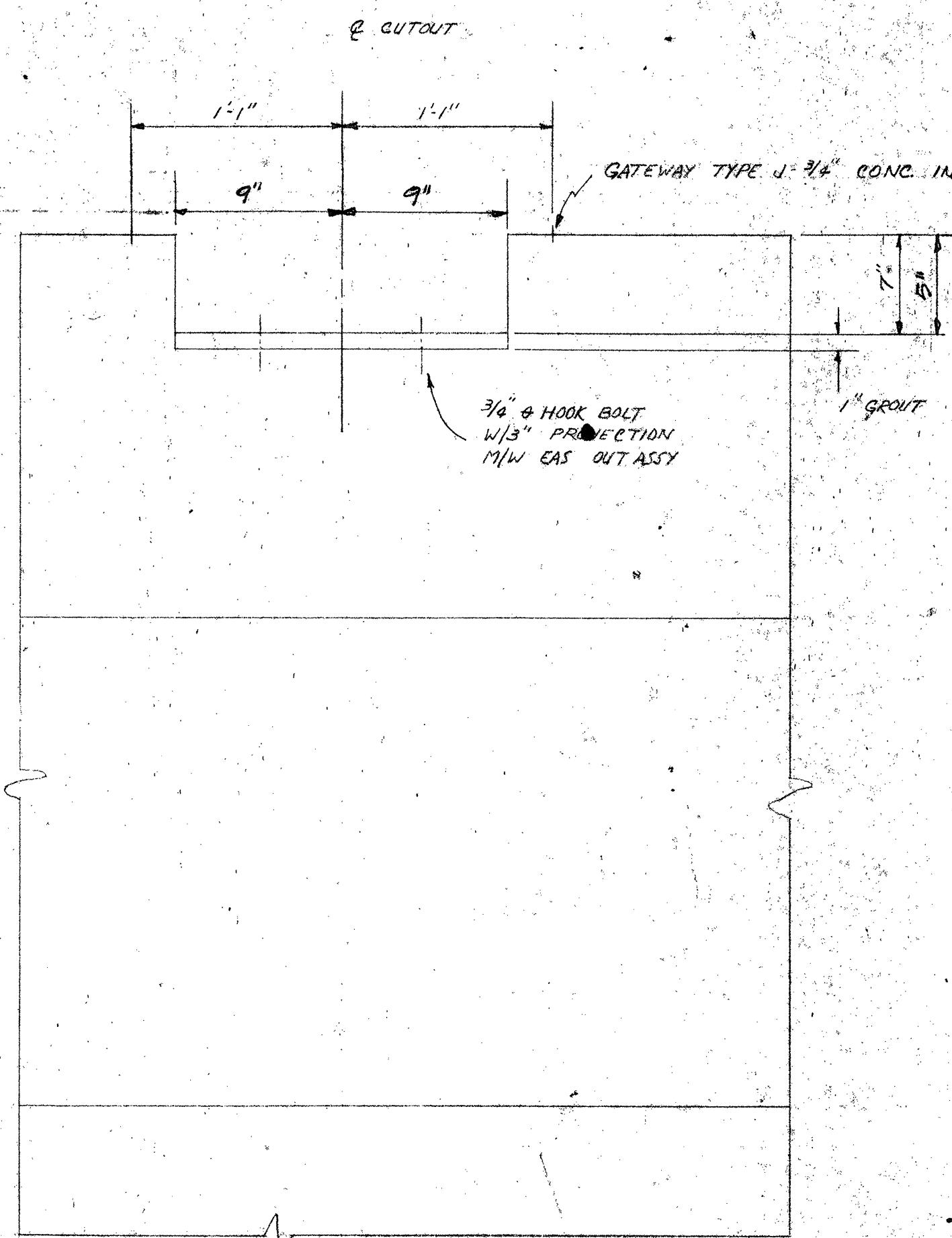
GATEWAY TYPE J- $\frac{3}{4}$ " CONC. INSERT

\* PROVIDE  $1\frac{1}{2}'' \pm$  CLEARANCE  
AROUND AIR HEADERS

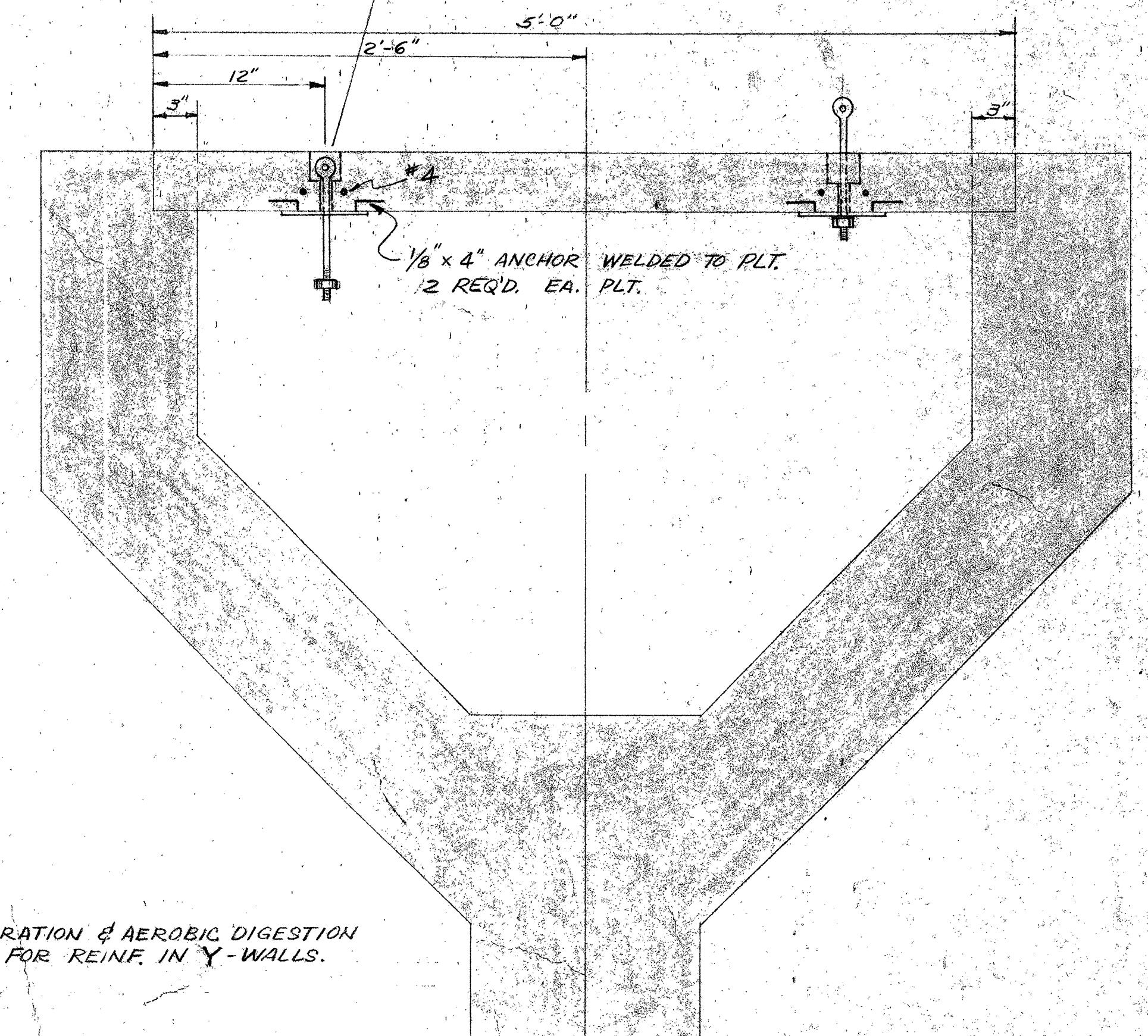


ANGLE DETAIL  
SCALE: NONE

$2\frac{1}{4}'' \times 2''$  DEEP HOLE W/ $\frac{3}{4}'' \phi \times \frac{1}{4}''$  DEEP HOLE  
 $\frac{1}{2}'' \times 10''$  EYE BOLT W/NUT & COTTER PIN & 2 WASHERS  
 $1/4'' \times 6''$  SQ. STL. PLT. W/ $9/16'' \phi$  HOLE  
4 REQ'D. EA. PLANK.



SECTION A



SECTION B

SCALE IN FEET  
SCALE:  $1\frac{1}{2}'' = 1'-0''$

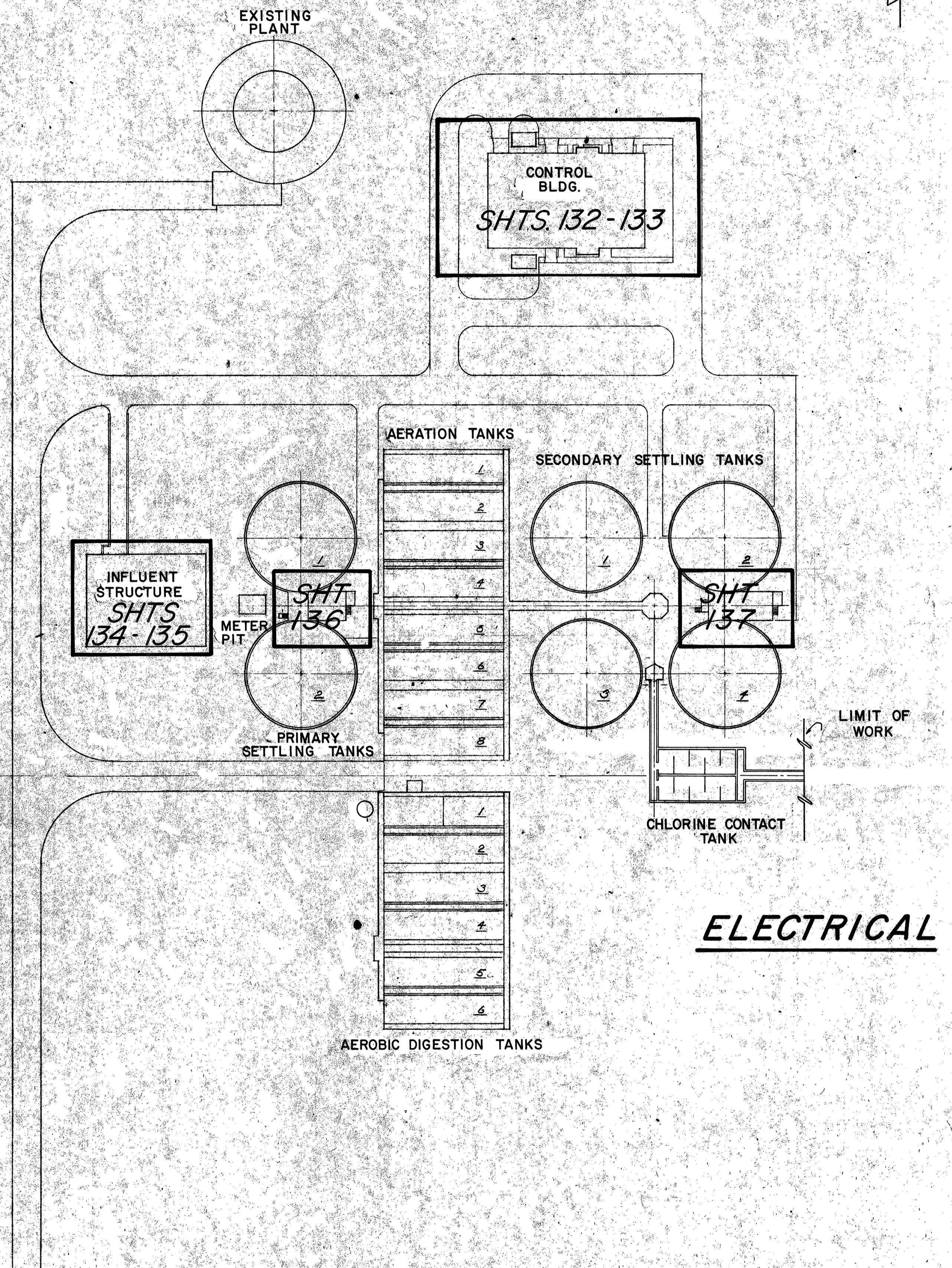
REV. NO.	DATE	REVISION	BY	DESIGNED:	DRAWN	SUBMITTED:	APPROVED:	CHARLES S. RICHARDSON CERTIFICATE NO. 22524 STATE OF FLORIDA REGISTERED ENGINEER
				CW	DR	C. L. Briley, Wild & Associates		

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

CLEARWATER, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY  
STANDARD DETAILS  
CLEARWATER, FLORIDA

DATE: DEC. 1975  
PROJ. NO. 7236-2A  
SCALE:  $1\frac{1}{2}'' = 1'-0''$   
FILE NO. S-8500  
SHEET NO. 129 OF 142



## ELECTRICAL

LEGEND	
H	HORSEPOWER
MCC	MOTOR CONTROL CENTER
LP-RP	LIGHTING PANEL - RECEPICAL PANEL
● ½	PROPOSED EQUIPMENT APPROX. HORSEPOWER
○ 5	FUTURE EQUIPMENT & APPROX. HORSEPOWER
■ 7½	EXISTING EQUIPMENT & APPROX. HORSEPOWER
×	JUNCTION BOX (MANHOLE - MH)
◆	OUTDOOR LIGHTING (WALL-MOUNTED)
○	OUTDOOR LIGHTING (POLE-MOUNTED)
W	WALL SWITCH
3-WAY W	3-WAY WALL SWITCH
CONVENIENCE OUTLET	CONVENIENCE OUTLET MOUNTED ABOVE COUNTER,
WP	WEATHERPROOF OUTLET
PHOTO-ELECTRIC CELL CONTROLLED	PHOTO-ELECTRIC CELL CONTROLLED
PAGING SPEAKER	PAGING SPEAKER
INTERNAL COMMUNICATIONS SYSTEM	INTERNAL COMMUNICATIONS SYSTEM
TELEPHONE OUTLETS	TELEPHONE OUTLETS
MOTOR WITH HORSEPOWER INDICATED - SCHEMATICS	MOTOR WITH HORSEPOWER INDICATED - SCHEMATICS
BREAKER WITH FRAME & TRIP INDICATED	BREAKER WITH FRAME & TRIP INDICATED
MOTOR STARTER	MOTOR STARTER
FULL VOLTAGE NON REVERSING	FULL VOLTAGE NON REVERSING
FVR	FULL VOLTAGE REVERSING
RVNR	REDUCED VOLTAGE NON REVERSING
PANEL	PANEL
LE	FLOAT SWITCH
DP	PRESSURE SWITCH
LT	LAPSED TIME METER
A	FLOOR, SUSPENDED 100 WATT 2-40 W-RS DAY-BRITE CFI-10 RAPID START EXCEPT FOR 277 VOLT
B	FLOOR, SURFACE MTD. 50 WATT 1-40 W-RS KEYSTONE-PROTON II PT-140A EXCEPT FOR 277 VOLT
C	FLOOR, SURFACE MTD. 100 WATT 2-40W-RS LITHONIA DV SERIES DV-240A-277 VOLT
C-I	FLOOR, SURFACE MTD. 50 WATT 1-40W-RS LITHONIA DV SERIES DV-140A-277 VOLT
D	INCAN. SURFACE MTD. 150 WATT INC-CROUSE-HINDS VAPORGUARD VXHF156P
E	INCAN. SURFACED MTD. 20 WATT LITHONIA ESIREL - 02 277 VOLT
F	FLOOR, RECESSED 200 WATT 4-40W-RS LITHONIA 2G SERIES 2G-440 PL-277 VOLT
G	INCAN. SURFACED MTD. 75 WATT THOMAS M-1510
H	RECESSED 150 WATT EXHAUST FAN 150 CFM MIN-SEE MECHANICAL
J	FLOOR, RECESSED 100 WATT 2-40W-RS LITHONIA 2G-SERIES 2G-240 PL-277 VOLT
K	FLOOR, RECESSED 100 WATT 2-40W-RS LITHONIA G-SERIES G-240 PL-277 VOLT
L	FLOOR, VALANCE 50 WATT 1-40 W-RS D-W-W- LITHONIA S-SERIES S-140 PH-277VOLT SEE DETAILS, TO BE BUILT UP.
M	FLOOR, SURFACE MTD. 100 WATT 2-40 W-RS LITHONIA UN.GEN. PURPOSE CHAN. CAT. NO. UN-240
N	HID SURFACE MTD. 250 WATT LU 250/BD G.E. LOWMOUNT 400 CAT. NO. C768 G304
O	HID SURFACE MTD. 150 WATT LU 150/BD G.E. LOWMOUNT 150 CAT. NO. C768 G454
P	HID POLE MTD. 175 WATT MV G.E. - WL-250 CAT. NO. C730 G010
R	HID POLE MTD. 175 WATT MV G.E. PMA 117 CAT. NO. C7086675 MOUNT ON G.E. 10' POLE CAT. NO. 8964027 - TYPE III FOR 277 VOLT.
S	HID WALL MTD. 150 WATT MV HALO CAT. NO. H-240I
T	FLOOR, SUSPENDED 100 WATT 2-40W-RS-LITHONIA DL-240 AR FOR 277 VOLTS
U	HID POLE MTD. 175 MV SAME AS P EXCEPT ON 14' POLE
V	INCAN. SURFACE MOUNTED 100 WATTS PROGRESS/LCA CAT. NO. P-3721-16
W	INCAN. WALL MOUNTED 75 WATTS BENJAMINE CAT. NO. M-875-3
X	MOTOR OPERATOR
Z	ALARM AT CONTROL CONSOLE STATUS TO CONTROL CONSOLE

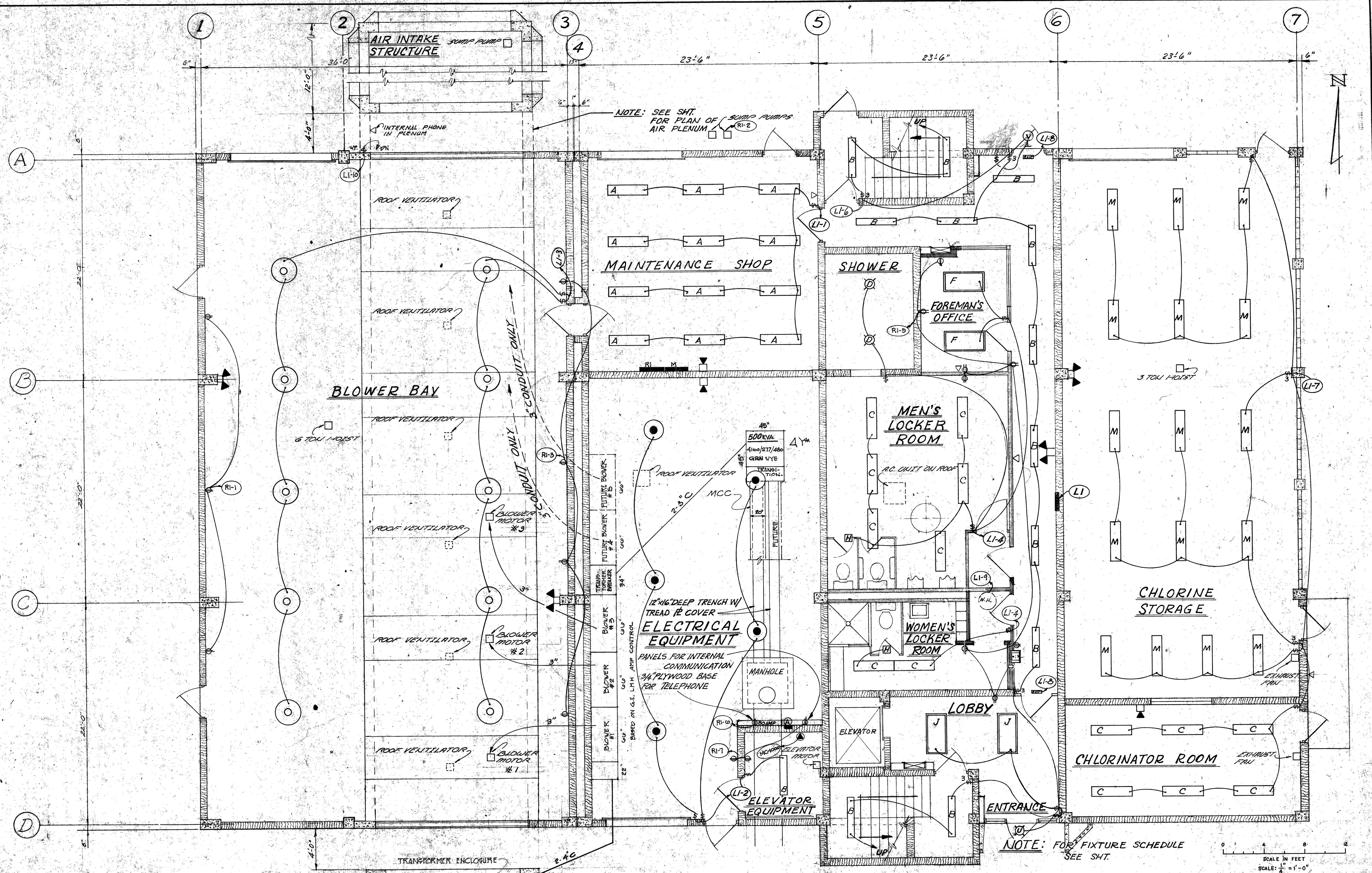
50 0 50 100

SCALE IN FEET

SCALE: 1" = 50'-0"

DESIGNED	DRAWN	SUBMITTED: BRILEY, WILD & ASSOCIATES PRINCIPAL 3-25-76 PROJECT ENGINEER	APPROVED:	NORTHEAST WASTEWATER TREATMENT FACILITY KEY SHEET CLEARWATER, FLORIDA	DATE: DEC. 1975	PROJ. NO. 7236-2A
3-76 ADDITIONS TO LEGEND	RRW	W. J. Dubois	APPROVED:		SCALE: 1" = 50'	FILE NO. E-8501
REV. NO.	DATE	REVISION	BY	CHECKED	SHEET NO. 130 OF 142	





*Briley, Wild & Associates*  
CONSULTING ENGINEERS

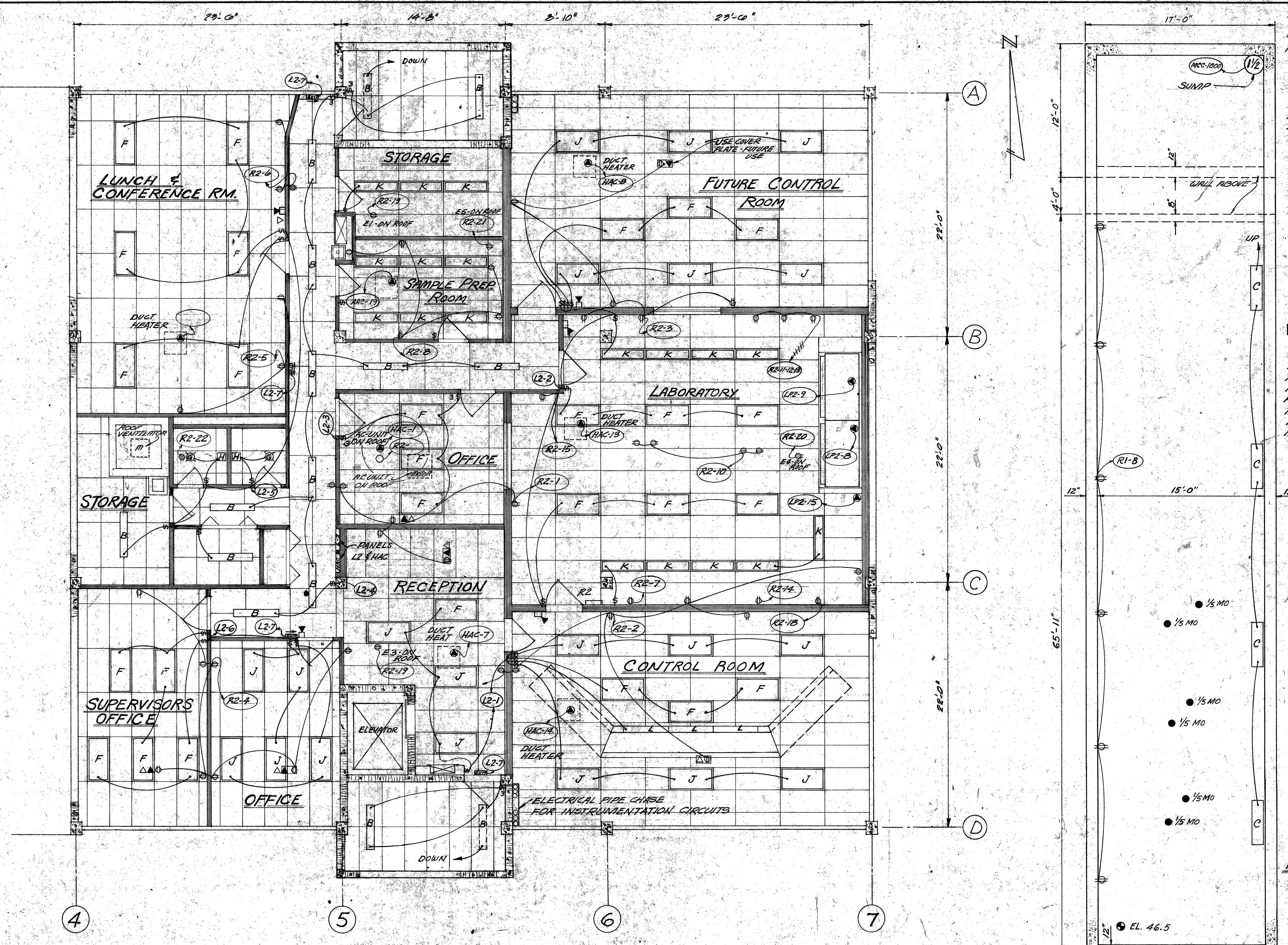
**BEACH, FLA.**      **CLEARWATER, FLA.**

NORTHEAST WASTEWATER TREATMENT FACILITY  
CONTROL BUILDING — FIRST FLOOR PLAN  
CLEARWATER, FLORIDA

REV. NO.	DATE	REVISION	BY	DESIGNED	DRAWN	checked	V.I.D

SUBMITTED BY BRILLY, WIED & ASSOCIATES	
<b>PRINCIPAL</b>  3-25-76 <b>PROJECT ENGINEER</b>	
APPROVED:	

DATE: DEC. 1975	PROJ. NO.
CALE: 1/4" = 1'-0"	7236-2A
HEET NO. 132 OF 142	FILE NO.
	E- 8503



NOTE: ALL COMMUNICATION HOME RUNS TO BE  $\frac{3}{4}$ " CONDUIT WITH PULL WIRES EXCEPT RECEPTIONIST WHICH WILL BE  $\frac{1}{2}$ " CONDUIT WITH PULL WIRES. INSTALL 2" CONDUIT TO OUTSIDE OF BUILDING FROM TELEPHONE EQUIPMENT PANEL PER TELEPHONE CO. SPECIFICATIONS.

PAGING SYSTEMS & INTERNAL COMMUNICATIONS TO CONSIST OF:

① ■ AMPLIFIER BOGEN CAT # CHB100 100 WATT LOCATED AT COMMUNICATIONS PANEL

► □ PAGING SPEAKERS - 20 REQD. UNIVERSITY 10 WATT CMULT-042 BOGEN # WAH WITH # DR-30T DRIVER. 18 INDOOR - 2 OUTDOOR.

CONNECT ALL COMPONENTS TOGETHER WITH MULTIPLES OF 6 PAIR 22 GAUGE POLYETHYLENE INSULATED CABLE WITH 2100 VOLT BREAK-DOWN IN  $\frac{1}{2}$ " CONDUIT.

► INTERCOM SYSTEM COMPOSED OF BOGEN SERIES TSL-X MULTICHANNEL SYSTEM, WITH 12 MASTER TSL-16X STATIONS, WALL MOUNTED INDOORS, AND 5 DESK MOUNTED. A TRC PHONE-PAGE ADAPTER TO PERMIT TIE-IN TO PA SYSTEM. ONE PRS-16A POWER SUPPLY, TRC AND PRS-16A TO BE MOUNTED AT COMMUNICATIONS PANEL.

NOTE: FOR FIXTURE SCHEDULE SEE SHT 140

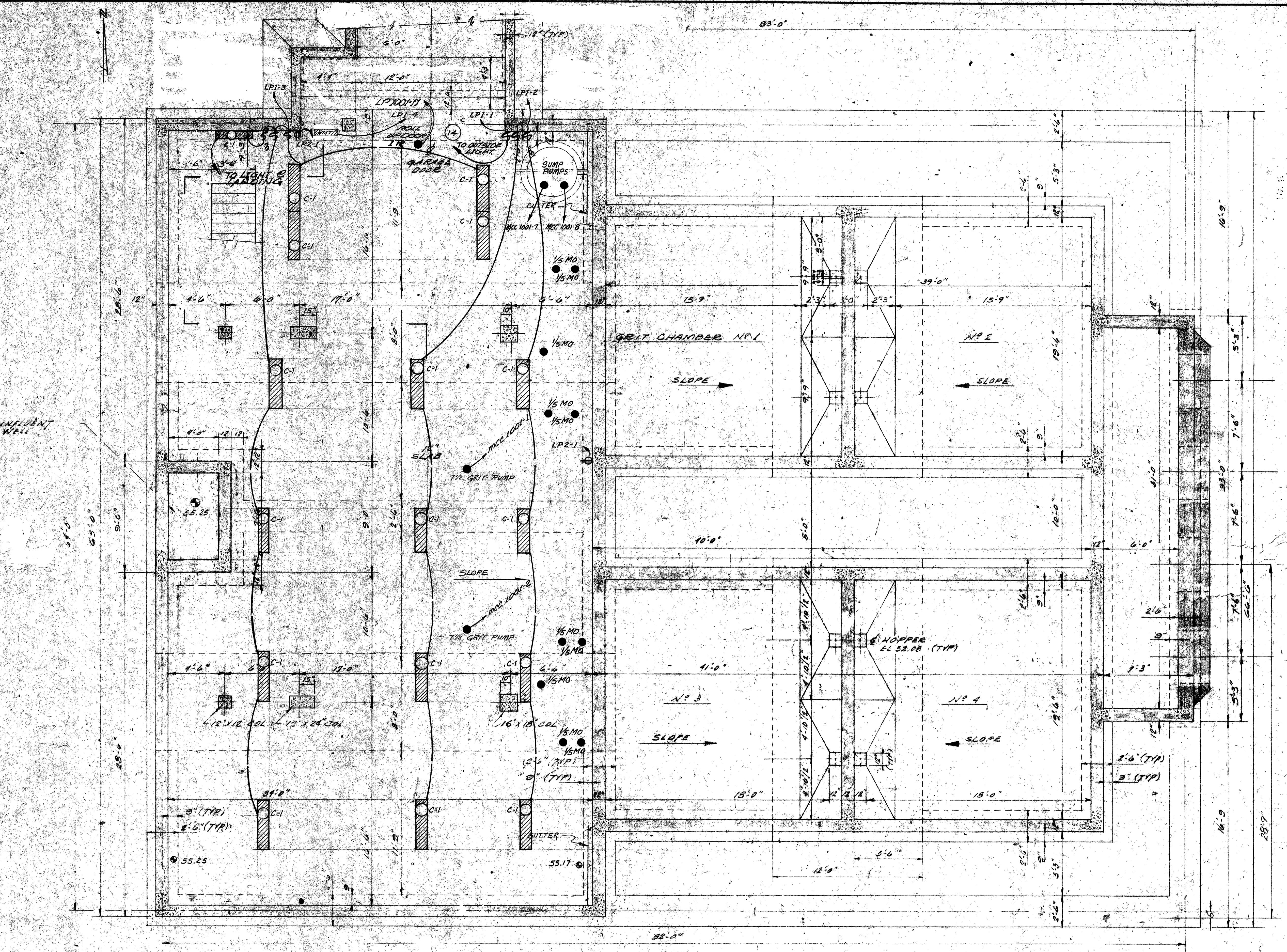
REV. NO.	DATE	REVISION	BY	DESIGNED	DRAWN	CHECKED
				V.W.D.	EL.H.	W.J.S.

SUBMITTED: BRILEY, WILD & ASSOCIATES  
PRINCIPAL PROJECT ENGINEER: J. B. BRILEY  
APPROVED: APPROVED: J. B. BRILEY  
REV. NO. DATE: DRAWN BY: CHECKED BY:

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

NORTHEAST WASTEWATER TREATMENT FACILITY  
CONTROL BUILDING - SECOND FLOOR PLAN  
CLEARWATER, FLORIDA

DATE: DEC. 1975 PROJ. NO. 7236-2A  
SCALE: 1/4" = 1'-0" FILE NO.  
SHEET NO. 133 OF 142 E-8504



REV. NO.	DATE	REVISION	BY	DESIGNED	W/D	SUBMITTED	APPROVED
				John D. Briley	3-25-74	BRILEY, WILD & ASSOCIATES	John D. Briley

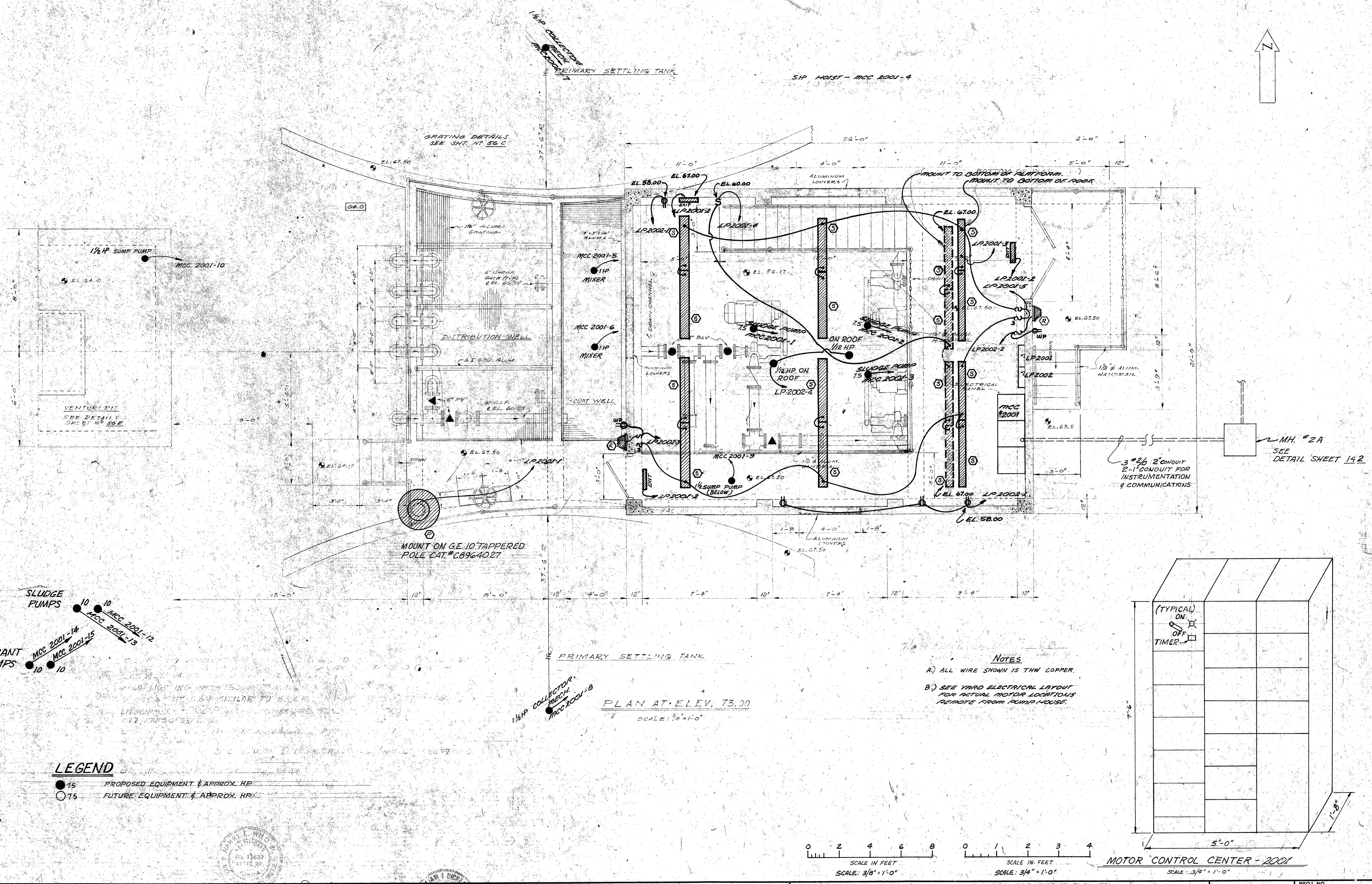
Briley, Wild & Associates  
CONSULTING ENGINEERS  
DAYTONA BEACH, FLA.

NORTHEAST WASTEWATER TREATMENT FACILITY  
INFLUENT STRUCTURE ELECTRICAL PLAN - FIRST FLOOR  
CLEARWATER, FLORIDA

DATE: SEPT. 1974  
SCALE: 1/4" = 1'-0"  
FILE NO.: 7236-2A  
SHEET NO. 134 OF 142  
E-8505

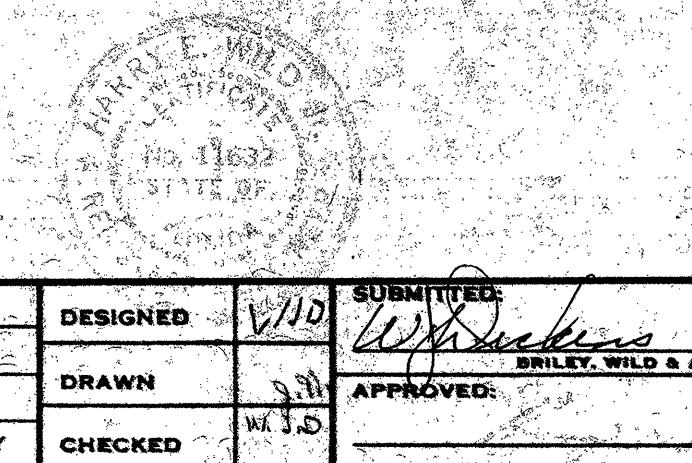
0 4 8  
SCALE IN FEET





## LEGEND

- 15 PROPOSED EQUIPMENT & APPROX. HP  
 15 FUTURE EQUIPMENT & APPROX. HP



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

*Briley, Wild &*  
CONSULTING ENGI  
DAYTONA BEACH, FLA.

**DAYTONA BEACH, FLA.** **CLEARWATER**

NORTHEAST WASTEWATER TREATMENT FACILITY

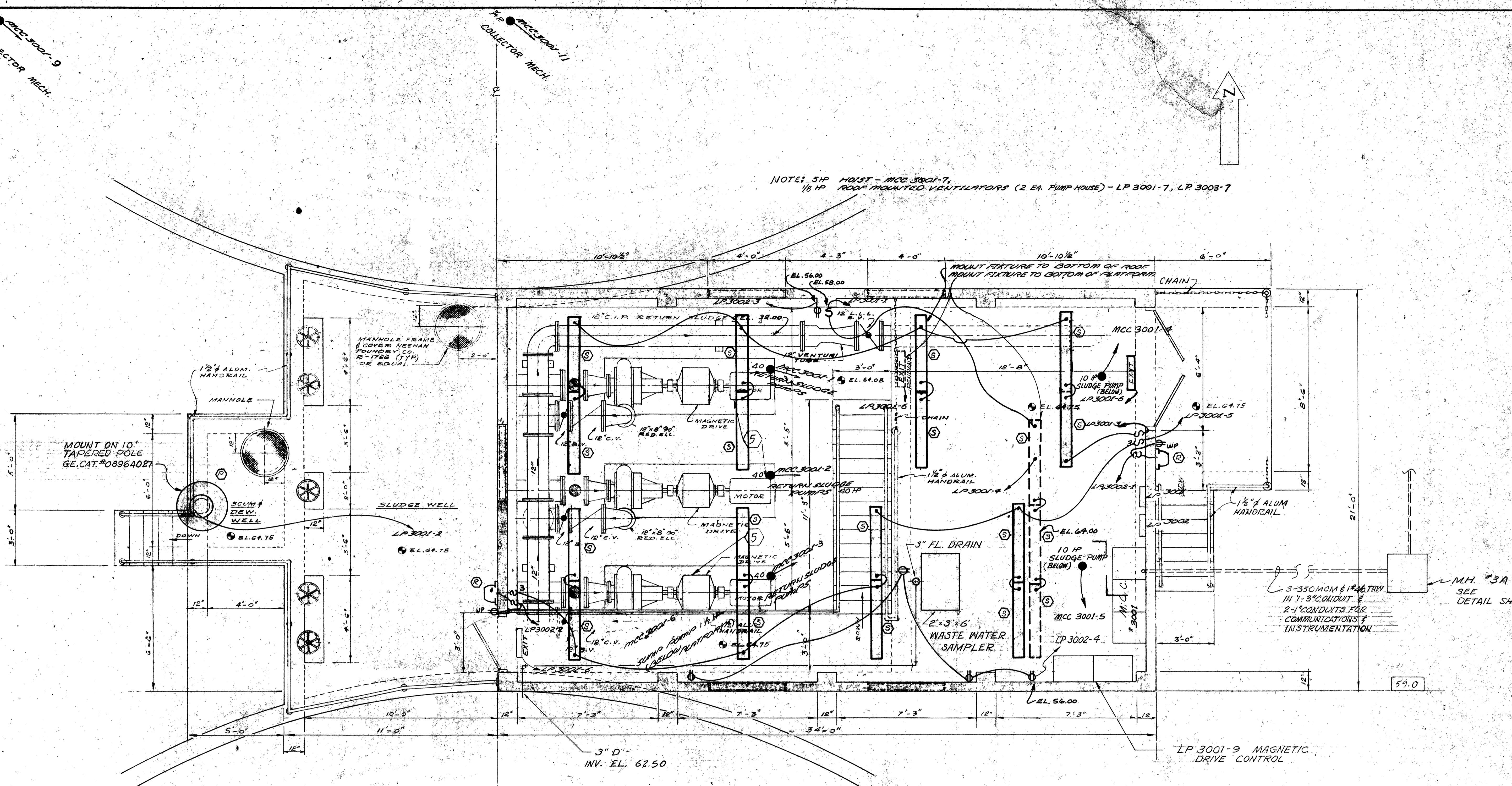
## **PRIMARY SETTLING TANK PUMP HOUSE-ELECTRICAL LAYOUT**

CLEARWATER, FLORIDA

DATE: SEPT. 1974

LAYOUT

SHEET NO. 136 OF 142 E-8507



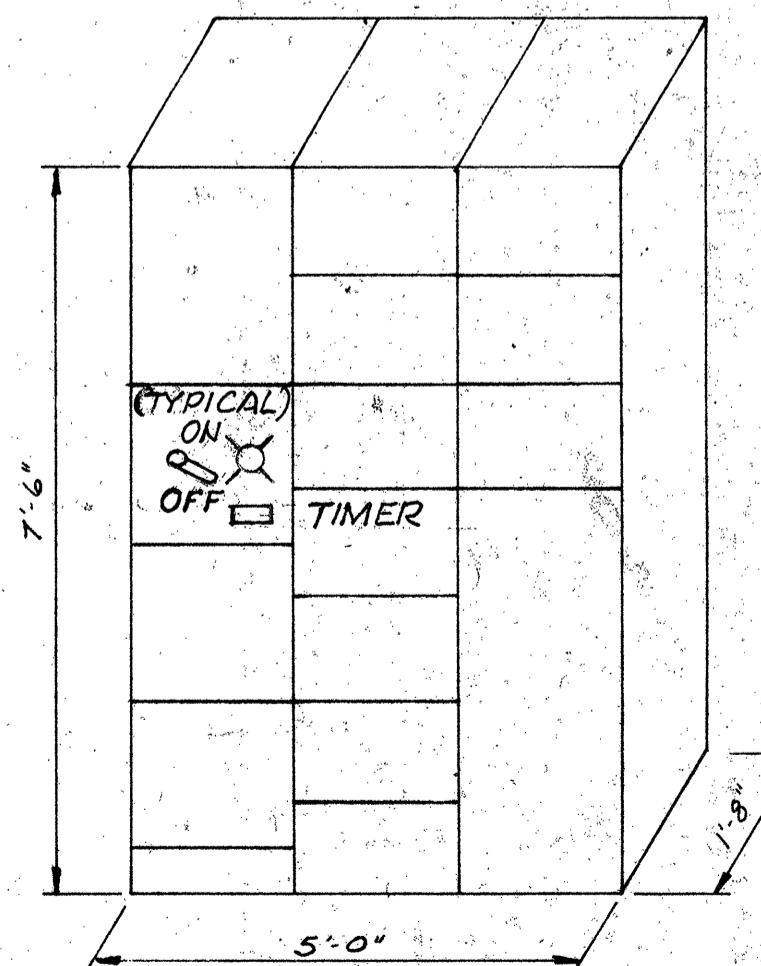
NOTE:

1. ALL WIRE SHOWN IS THW COPPER.
2. SEE YARD ELECTRICAL LAYOUT FOR ACTUAL MOTOR LOCATIONS REMOTE FROM PUMP HOUSE.

PLAN AT ELEV. 70.00

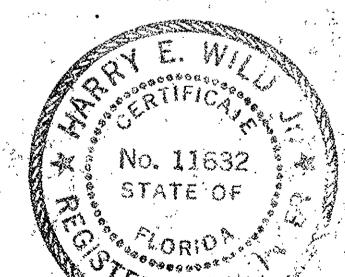
$$E241 = \frac{3/8}{2} = 1' - 0''$$

The diagram illustrates a piping system with two vertical pipes. Each pipe has a black circular valve at its bottom end. Above each valve, the text "1½" is written. A diagonal line labeled "MCC 3001-13" connects the top of the left valve to the top of the right valve. Another diagonal line labeled "MCC 3001-14" connects the top of the right valve back down to the left valve. The entire assembly is labeled "SAMPLE PUMPS" in large, bold, capital letters at the bottom.



# MOTOR CONTROL CENTER -3001

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



*Briley, Wild & Associates*  
CONSULTING ENGINEERS

**NORTHEAST WASTEWATER TREATMENT FACILITY  
SECONDARY SETTLING TANK PUMP HOUSE  
ELECTRICAL LAYOUT  
CLEARWATER, FLORIDA**

DATE: DEC. 1975	PROJ. NO. 7236-2A
CALE: AS SHOWN	FILE NO. E-8508
HEET NO 137 OF 142	

LEGEND

(1) 3# 1/0 CU - 5000 VOLT SHIELDED CABLE  
SIMILAR TO ANACONDA WIRE & CABLE CO.  
XLPE UNIBLEND CAT# AP 15105 INSTALLED  
LED IN 3" CONCRETE-ENCASED  
PLASTIC CONDUIT.

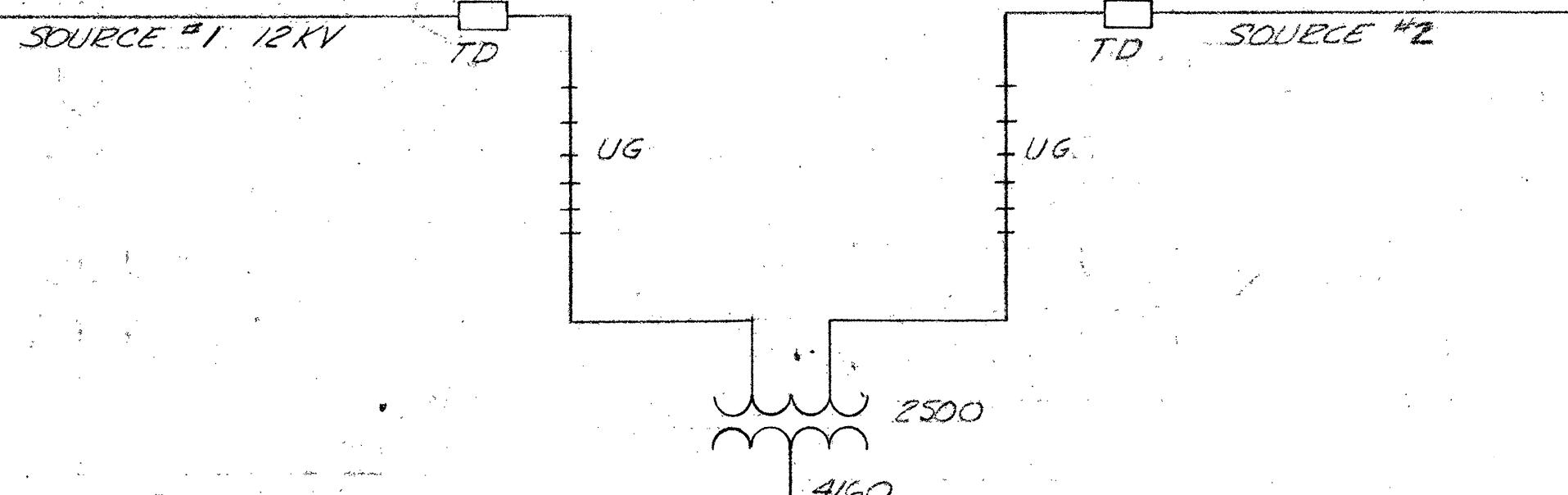
(2) 3# 750 MCM CU - 5000 VOLT SHIELDED  
CABLE SIMILAR TO ANACONDA WIRE &  
CABLE CO., XLPE UNIBLEND CAT#  
15105 IN 4" CONDUIT.

BLOWER ALARM TO CONTROL CONSOLE  
FOR:  
1. WINDING TEMP.  
2. BEARING TEMP.  
3. CURRENT O.L.

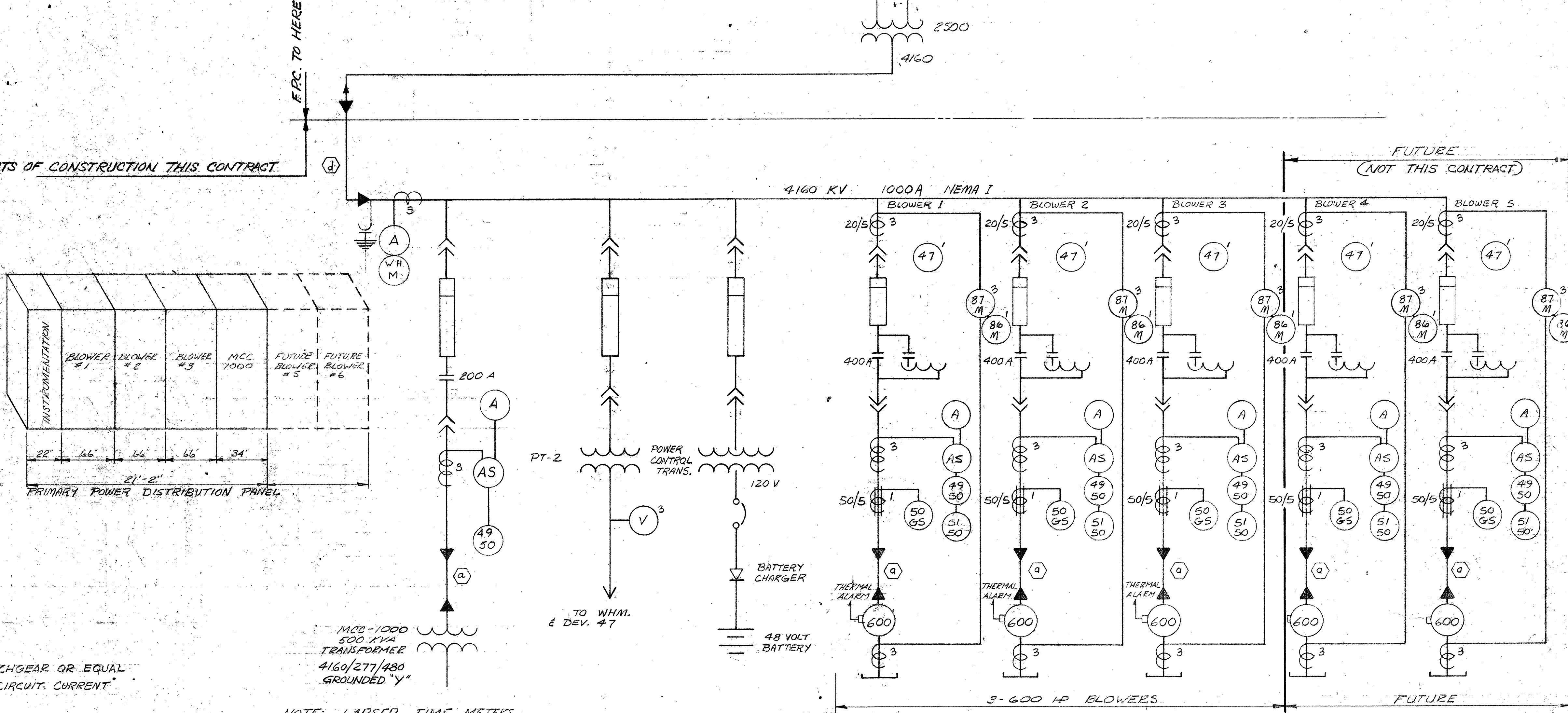
STATUS CONDITION TO CONTROL  
CONSOLE;  
1. BLOWER MOTORS

50 - INSTANT OVERLOAD  
51 - OVERCURRENT, NEUTRAL T.D.  
51 - OVERCURRENT DEVICE T.D.  
A - AMMETER  
AS - AMMETER SWITCH  
VHM - VATT HOUR METER  
V - VOLTMETER  
87 - DIFFERENTIAL RELAYS  
86 - AUX. SWITCH, HAND RESET,  
FOR TRIP AND LOCKOUT OF ALL  
BREAKERS WHEN ENERGIZED  
FROM 87.  
47 - POLYPHASE UNDERRVOLTAGE &  
PHASE SEQUENCE RELAY.  
49/50 - THERMAL OVERLOAD RELAYS w/  
INSTANT TRIP ATTACHMENTS.  
CABLE TERMINATIONS TO BE OF  
JOCLYN PS CONES. SUPPLIED BY ELECTRICAL  
CONTRACTOR TO MATCH EQUIP-  
MENT & CABLES.

FLORIDA POWER CORP TO PROVIDE



NOTE: LIMITS OF CONSTRUCTION THIS CONTRACT



COORDINATED SWITCH GEAR: SIMILAR TO GENERAL ELECTRIC SWITCHGEAR OR EQUAL  
BRACED FOR A MINIMUM OF 10,000 AMPS SYMMETRICAL SHORT CIRCUIT CURRENT

NOTE: LAPSED TIME METERS  
ON ALL BLOWERS

PRIMARY POWER DISTRIBUTION SCHEMATIC

DESIGNED	WJD
DRAWN	RDN ERD
CHECKED	WJD
APPROVED	

1 3-76 ADDED NOTES TO LEGEND (REV)

REV. NO. DATE: REVISION BY

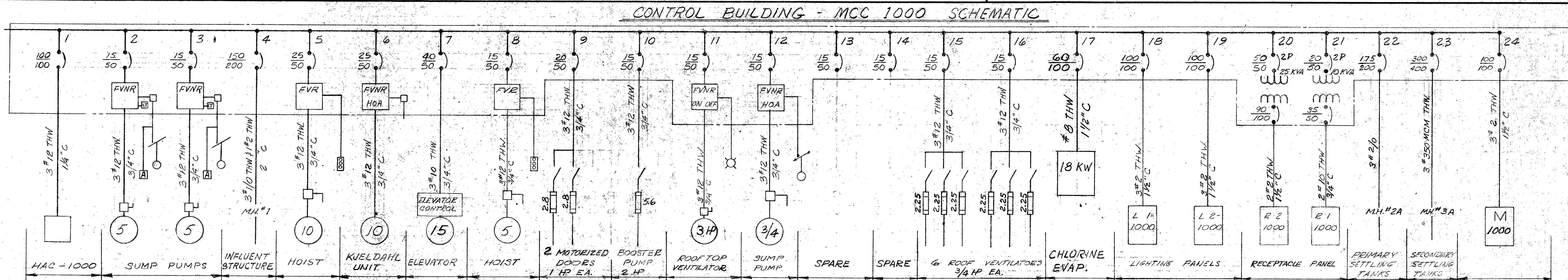
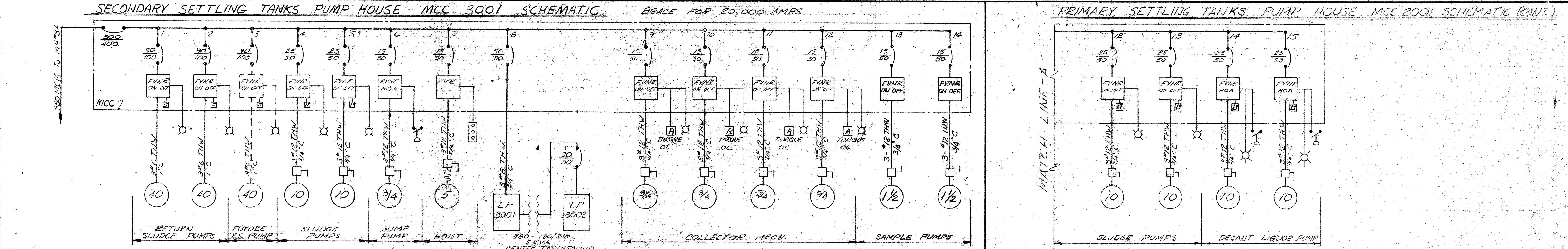
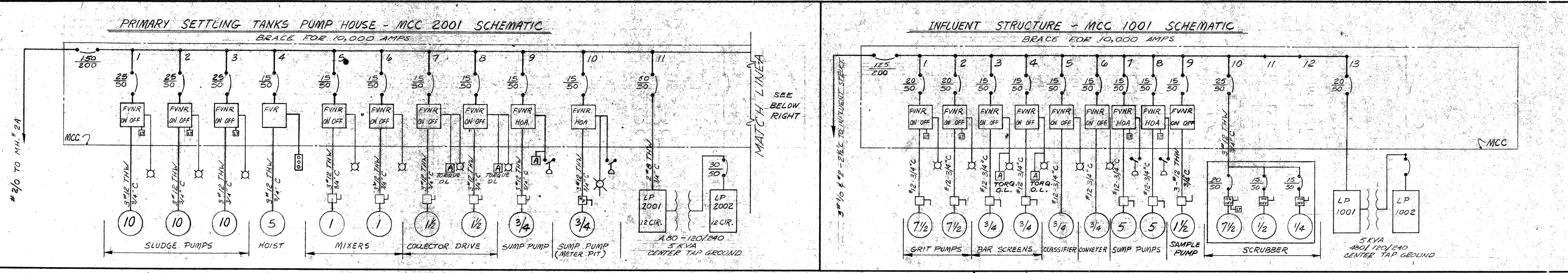
SUBMITTED: BRILEY, WILD & ASSOCIATES  
PRINCIPAL: *Briley, Wild & Associates*  
PROJECT ENGINEER: *3-25-76*  
APPROVED: *3-25-76*

NO. 9235 STATE OF FLORIDA  
REGISTERED ENGINEERS

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

NORTHEAST WASTEWATER TREATMENT FACILITY  
LOAD CENTER SCHEMATICS  
CLEARWATER, FLORIDA

DATE: SEPT. 1974  
SCALE: NONE  
FILE NO. 7236-2A  
SHEET NO. 138 OF 142  
E-8509



NOTE:  INDICATES STATUS INDICATION AT  
CONTROL CONSOLE  
 LT HOBBS SERIES 1900. LAPSED TIME METER

			DESIGNED
			DRAWN
REV. NO.	DATE,	REVISION	BY
1	3-76	VARIOUS CHANGES	RRW

	<b>SUBMITTED:</b> BRILBY, WILSON <i>Brilby</i> <b>PR</b>
NO. 31632 STATE OF <i>W. J. Dickason</i> <b>PROJECT</b>	
<b>APPROVED:</b>	

The image shows a business card for 'ED & ASSOCIATES'. The card features a large, stylized signature of 'Ed & Associates' at the top. Below the signature, the word 'INCIPAL' is written in a bold, sans-serif font. At the bottom, the words 'A' and 'ENGINEER' are printed. The entire card has a textured, almost embossed appearance.

LAWRENCE J. DICKENSON  
TREASURER  
FLORIDA  
NO. 9736  
STATE OF  
FLORIDA  
REGISTERED  
MAY 1964

*Briley, Wild & Associates*  
CONSULTING ENGINEERS  
ERMOND BEACH, FLA. CLEARWATER, FLA.

**NORTHEAST WASTEWATER TREATMENT FACILITY**

**LOAD CENTER SCHEMATICS**

**CLEARWATER, FLORIDA**

DATE: DEC. 1975	PROJ. NO. 7236-2A
SCALE: NONE	FILE NO. E - 8510
SHEET NO. 139 OF 142	



# LIGHTING PANEL SCHEDULES

## INFLOW STRUCTURE

LP 1001 277/480 V. 3 $\phi$  4 WIRE "WYE" 125 AMP 24 CIRCUIT

CIRCUIT	ITEM	BREAKER FRAME TRIP POLE	WIRE# CONDUIT	LOAD AMPS A $\phi$ B $\phi$ C $\phi$	CONTROLLED BY	REMARKS
1	OUTSIDE LIGHTS	50 15 1	12 3/4	2		
2	FIRST FLOOR LIGHTS	50 20 1	12 3/4	1.4		
3	FIRST FLOOR LIGHTS	50 20 1	12 3/4	2.8		
4	EXIT LIGHTS	50 20 1	12 3/4	.5		
5	SECOND FLOOR LIGHTS	50 20 1	12 3/4	2.3		
6	SECOND FLOOR LIGHTS	50 20 1	12 3/4	.72		
7	SECOND FLOOR LIGHTS	50 20 1	12 3/4	4.6		
8	LP 1002	50 20 2	12 3/4	10	10	SKVA TRANSFORMER 480/120/240 GE CAT #9T21B100762
9	SPARE					
10	YARD LIGHT	50 15 1	12 3/4	.6	PE	
11	DOOR	50 15 3	12 3/4	1.8	1.8	MANUAL 1 HP

LP 1002 120/240 V. 1 $\phi$  CENTER TAP GROUND 12 CIRCUIT

CIRCUIT	ITEM	BREAKER FRAME TRIP POLE	WIRE# CONDUIT	LOAD AMPS A $\phi$ B $\phi$ C $\phi$	CONTROLLED BY	REMARKS
1	RECEPTACLES	50 20 1	12 3/4	4.3		GFI
2	RECEPTACLES	50 20 1	12 3/4	6		GFI
3	MOTOR OPERATOR	50 15 1	12 3/4	9		3 EA. 1/2 HP
4	MOTOR OPERATOR	50 15 1	12 3/4	9		3 EA. 1/2 HP
5	MOTOR OPERATOR	50 15 1	12 3/4	12		4 EA. 1/2 HP
MAIN BREAKER		50 30				5 QD-GH 12-24 WG

## PRIMARY SETTLING TANKS PUMP HOUSE

LP 2001 277/480 V. 3 $\phi$  MLO 4 WIRE "WYE" 125 AMP 12 CIRCUIT

CIRCUIT	ITEM	BREAKER FRAME TRIP POLE	WIRE# CONDUIT	LOAD AMPS A $\phi$ B $\phi$ C $\phi$	CONTROLLED BY	REMARKS
1	OUTDOOR LIGHTS	50 15 1	12 3/4	2.5		
2	EXIT SIGNS	50 15 1	12 3/4	1.0		
3	SPARE					
4	LIGHTS	50 15 1	12 3/4	1.4		
5	LIGHTS	50 15 1	12 3/4	2.3		
6	RECEPTICAL TRANS.	50 20 2	12 3/4	10	10	5 KVA TRANS. 480/120/240 GENO. GE CAT #9T21B100762
TOTAL				10 10 7.2		

LP 2002 120/240 V. 1 $\phi$  MLS CENTER TAP GROUND 12 CIRCUIT

CIRCUIT	ITEM	BREAKER FRAME TRIP POLE	WIRE# CONDUIT	LOAD AMPS A $\phi$ B $\phi$ C $\phi$	CONTROLLED BY	REMARKS
1	RECEPTACLES	50 20 1	12 3/4	2.6		GFI
2	OUTSIDE LIGHT	50 20 1	12 3/4	2.75		
3	OUTSIDE LIGHT	50 20 1	12 3/4	2.75		
4	VENTILATORS	50 20 1	12 3/4	4.0	THERMOSTAT	(2) 1/2 HP
5	MOTOR OPERATOR	50 15 1	12 3/4	3		1/2 HP
MAIN BREAKER		50 25				5 QD-GH 12-24 WG

## SECONDARY SETTLING TANKS PUMP HOUSE

LP 3001 277/480 V. 3 $\phi$  MLO 4 WIRE "WYE" 125 AMP 12 CIRCUIT

CIRCUIT	ITEM	BREAKER FRAME TRIP POLE	WIRE# CONDUIT	LOAD AMPS A $\phi$ B $\phi$ C $\phi$	CONTROLLED BY	REMARKS
1	LIGHTS	50 15 1	12 3/4	1.08		
2	OUTSIDE LIGHTS	50 15 1	12 3/4	2.5		
3	LIGHTS	50 15 1	12 3/4	3.0		
4	SPARE					
5	LIGHTS	50 15 1	12 3/4	3		
6	EXIT SIGNS	50 15 1	12 3/4	1.5		
8	RECEPTACLE TRANS.	50 20 2	12 3/4	10	10	5 KVA 480/120/240 GENO. GE CAT #9T21B100762
9	MAGNETIC DRIVE CONTROL	50 15 2	12 3/4	10	10	
TOTAL				10 20 21.08		

LP 3002 120/240 V. 50-1 $\phi$  MLS CENTER TAP GROUND 12 CIRCUIT

CIRCUIT	ITEM	BREAKER FRAME TRIP POLE	WIRE# CONDUIT	LOAD AMPS A $\phi$ B $\phi$ C $\phi$	CONTROLLED BY	REMARKS
1	OUTSIDE LIGHT	50 20 1	12 3/4	2.75		
2	OUTSIDE LIGHT	50 20 1	12 3/4	2.75		
3	RECEPTACLE	50 20 1	12 3/4	1.5		GFI
4	RECEPTACLES	50 20 1	12 3/4	4.5		GFI
5	VENTILATORS	50 15 1	12 3/4	8	THERMOSTAT	(2) 1/2 HP
6	MOTOR OPERATOR	50 15 1	12 3/4	12		4 EA. 1/2 HP

## CONTROL BUILDING

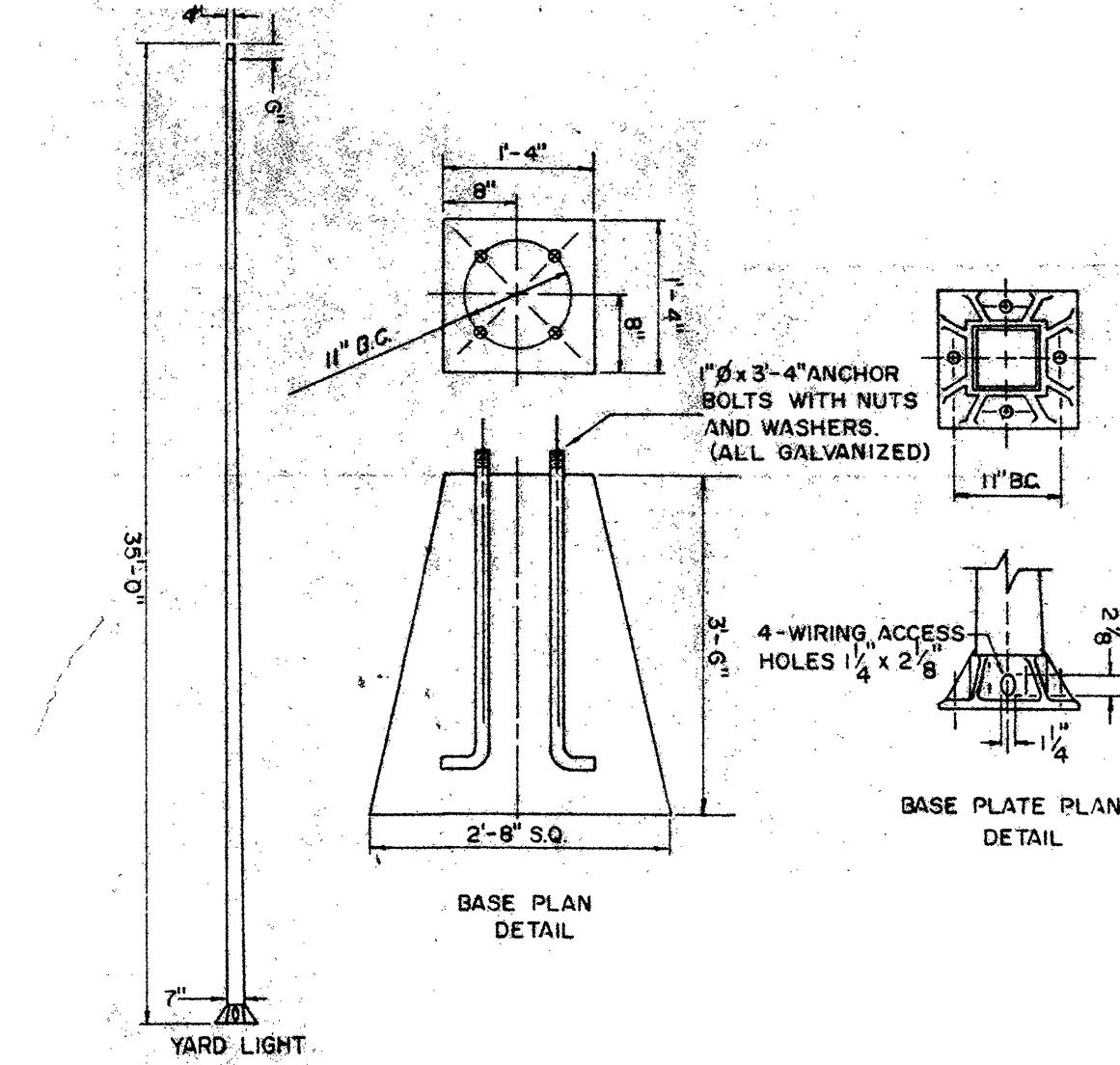
LI-1000 277/480 V. 3 $\phi$  4 WIRE "WYE" 125 AMP MLO 24 CIRCUIT

CIRCUIT	ITEM	BREAKER FRAME TRIP POLE	WIRE# CONDUIT	LOAD AMPS A $\phi$ B $\phi$ C $\phi$	CONTROLLED BY	REMARKS
1	MAINT. SHOP LIGHTS	50 20 1	#12 3/4"	1.2		
2	ELECT. EQUIP. ROOM LIGHTS	50 20 1	#12 3/4"	2.0		MANUAL
3	BLOWER ROOM LIGHTS	50 20 1	#12 3/4"	3		MANUAL
4	LOCKER ROOM LIGHTS	50 20 1	#12 3/4"	1.9		MANUAL
5	OUTSIDE LIGHTS	50 20 1	#12 3/4"	2.5		PECELL
6	CORRIDOR & STAIRS	50 20 1	#12 3/4"	.9		MANUAL
7	CHLORINE ROOMS	50 20 1	#12 3/4"	2.2		MANUAL
8	EXIT LIGHTS	50 20 1	#12 3/4"	.2		MANUAL
9	WATER HEATER	50 35 1	#8	1.0		THEMOSTAT
10	PLENUM LIGHTS	50 20 1	#12 3/4"	.2		MANUAL
11	EXHAUST FANS E4	50 15 1	#12 3/4"	2.9		THERMOSTAT 1/4 HP
12	EXHAUST FANS E1,E2,E3,E5	50 20 1	#12 3/4"	2		THERMOSTAT 2EA. 1/2 HP; 1EA. 1/2 HP; 1EA. 1/2 HP

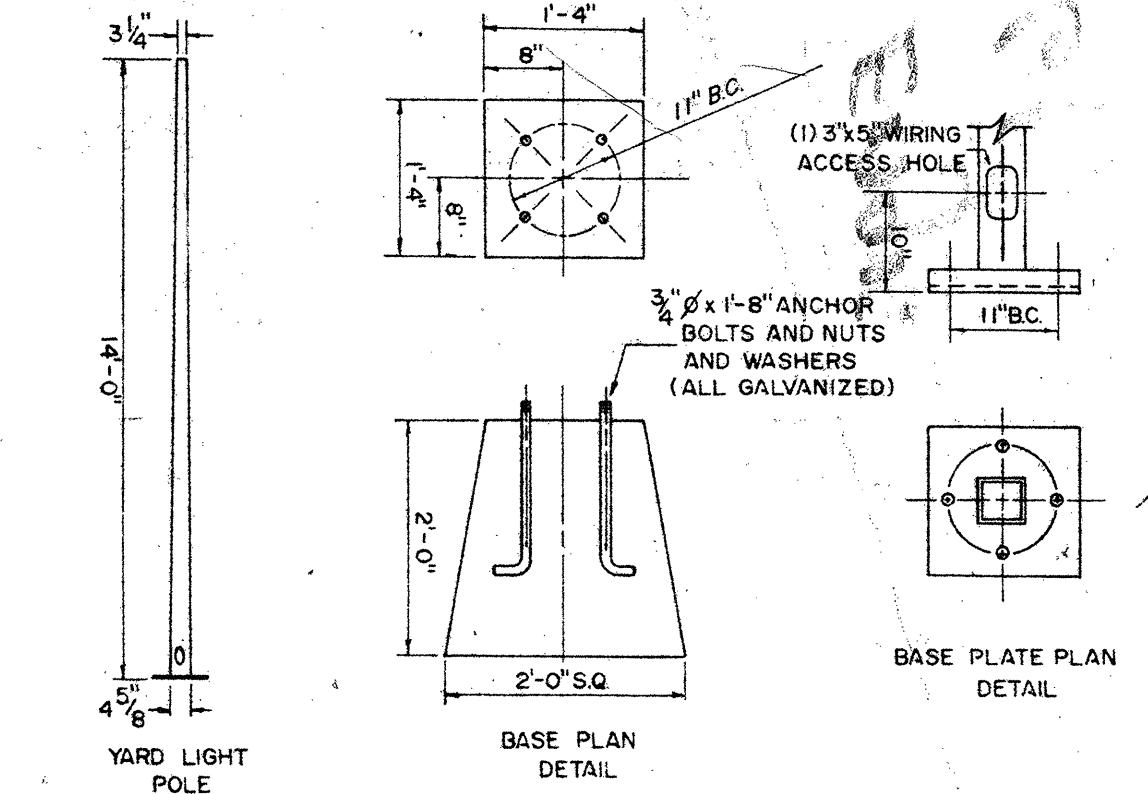
## CONTROL BUILDING

HAC-1000 277/480 3 $\phi$  4 WIRE WYE MLO 200 AMP 30 CIRCUIT

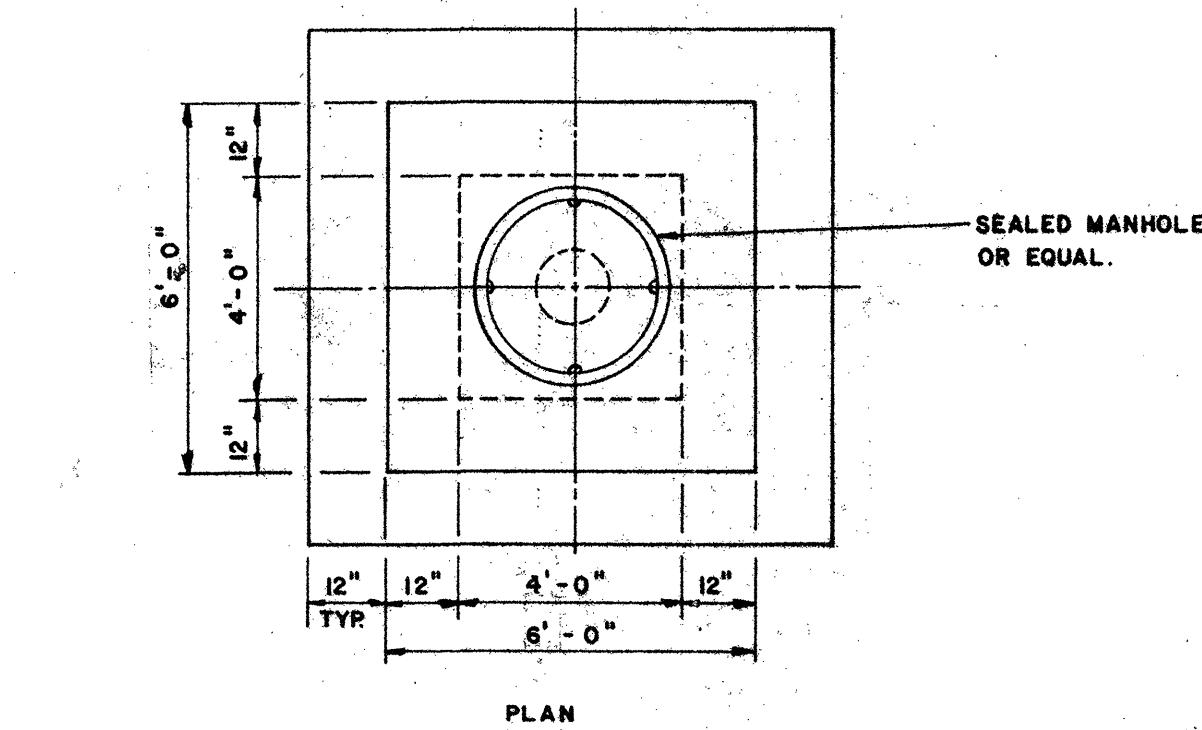
CIRCUIT	ITEM	BREAKER FRAME TRIP POLE	WIRE# CONDUIT	LOAD AMPS A $\phi$ B $\phi$ C $\phi$	CONTROLLED BY	REMARKS
1	AC UNIT	100 75 3	#6 1/2"	17	17	THEMOSTAT
2	CONFERENCE RM. HEAT STRIP	50 20 3	#12 3/4"	1.7	1.7	THEMOSTAT
3						



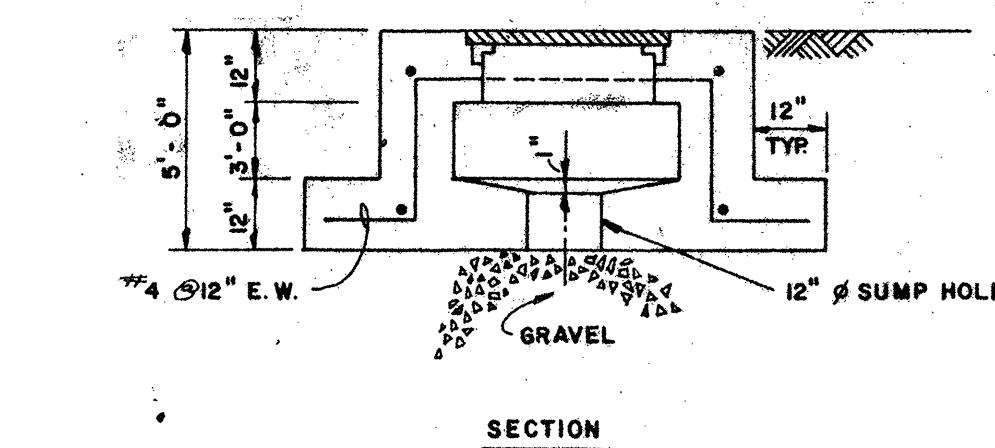
POWERGLOW FIXTURE POLE  
N.T.S.



P.M.A. FIXTURE POLE  
N.T.S.

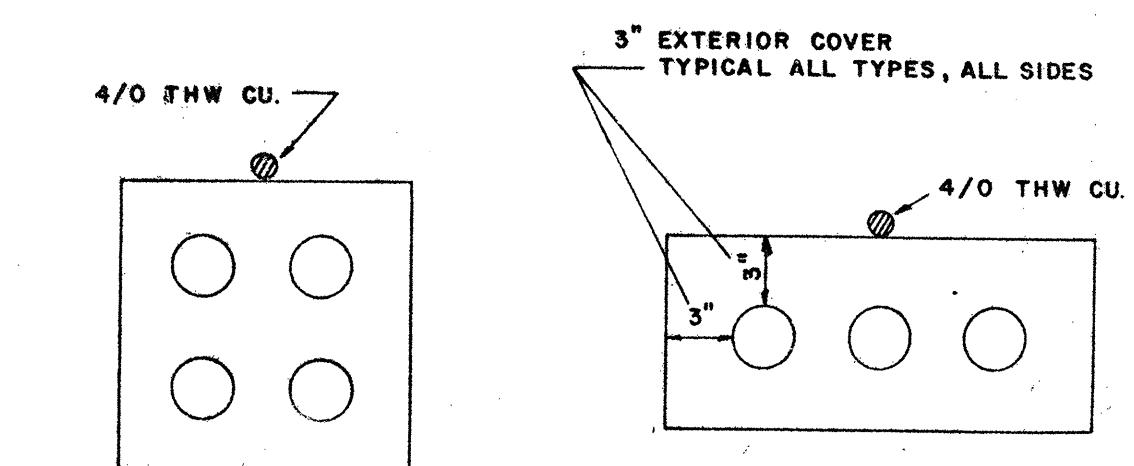


PLAN

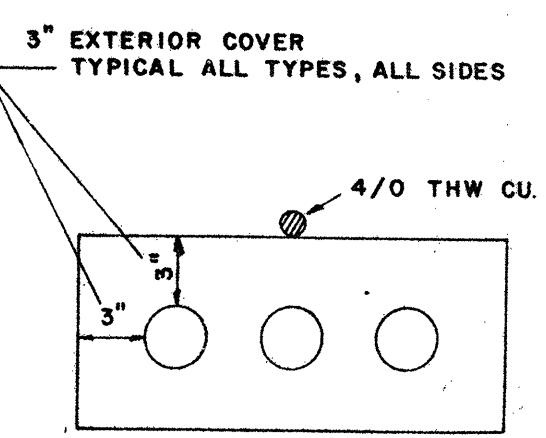


SECTION

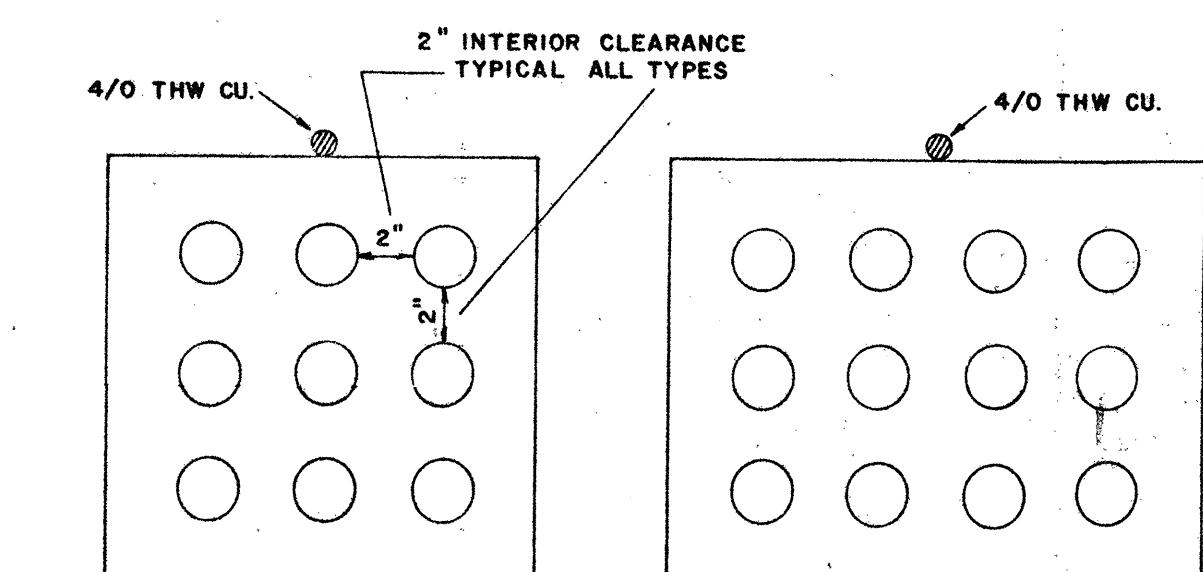
MANHOLE DETAILS  
N.T.S.



SINGLE DUCT  
DETAIL  
N.T.S.



TWIN DUCT  
DETAIL  
N.T.S.



DUCT TYPE - DETAILS  
N.T.S.

DESIGNED	VJD
DRAWN	
CHECKED	VJD
APPROVED	

NO. 11533
PRINCIPAL NO. 9736 PROJECT ENGINEER
STATE OF FLORIDA

REV. NO.	DATE	REVISION
BY		

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

NORTHEAST WASTEWATER TREATMENT FACILITY  
STANDARD DETAILS  
CLEARWATER, FLORIDA

DATE: DEC. 1975  
SCALE: AS SHOWN  
FILE NO.  
SHET NO. 142 OF 142  
E-8513