

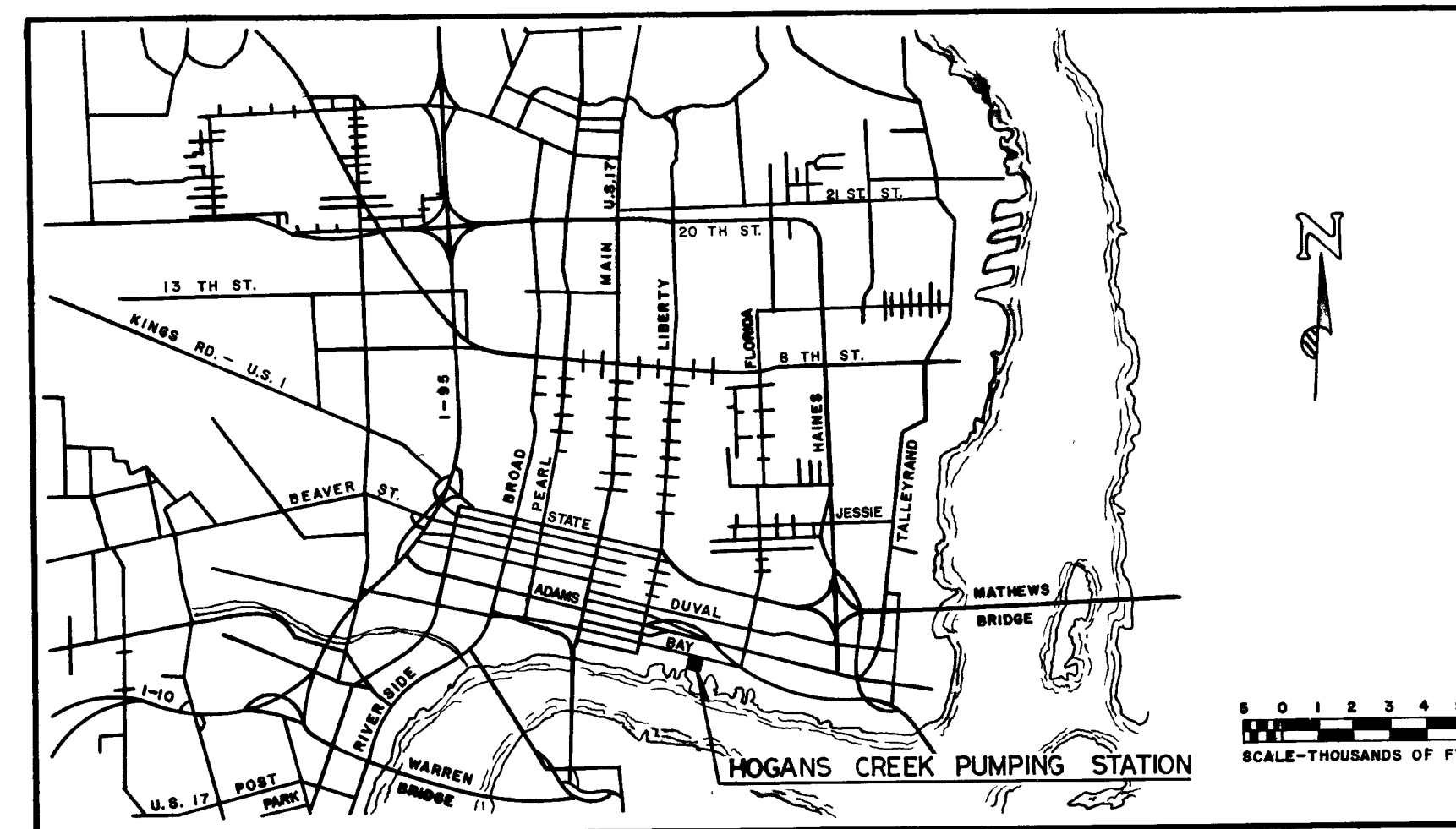
CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM

PHASE 2

HOGANS CREEK PUMPING STATION

JS. NO. 23

PART 3



LOCATION PLAN

HANS G. TANZLER, JR.
MAYOR

JAMES S. ENGLISH, P.E.
DIRECTOR, DEPARTMENT OF PUBLIC WORKS

FLOOD & ASSOCIATES, Inc.

DESIGN CONSULTANT

JACKSONVILLE, FLORIDA

SVERDRUP & PARCEL AND ASSOCIATES, Inc.

GENERAL CONSULTANT

JACKSONVILLE, FLORIDA

AS BUILT
APRIL 1977

7521

JANUARY, 1973

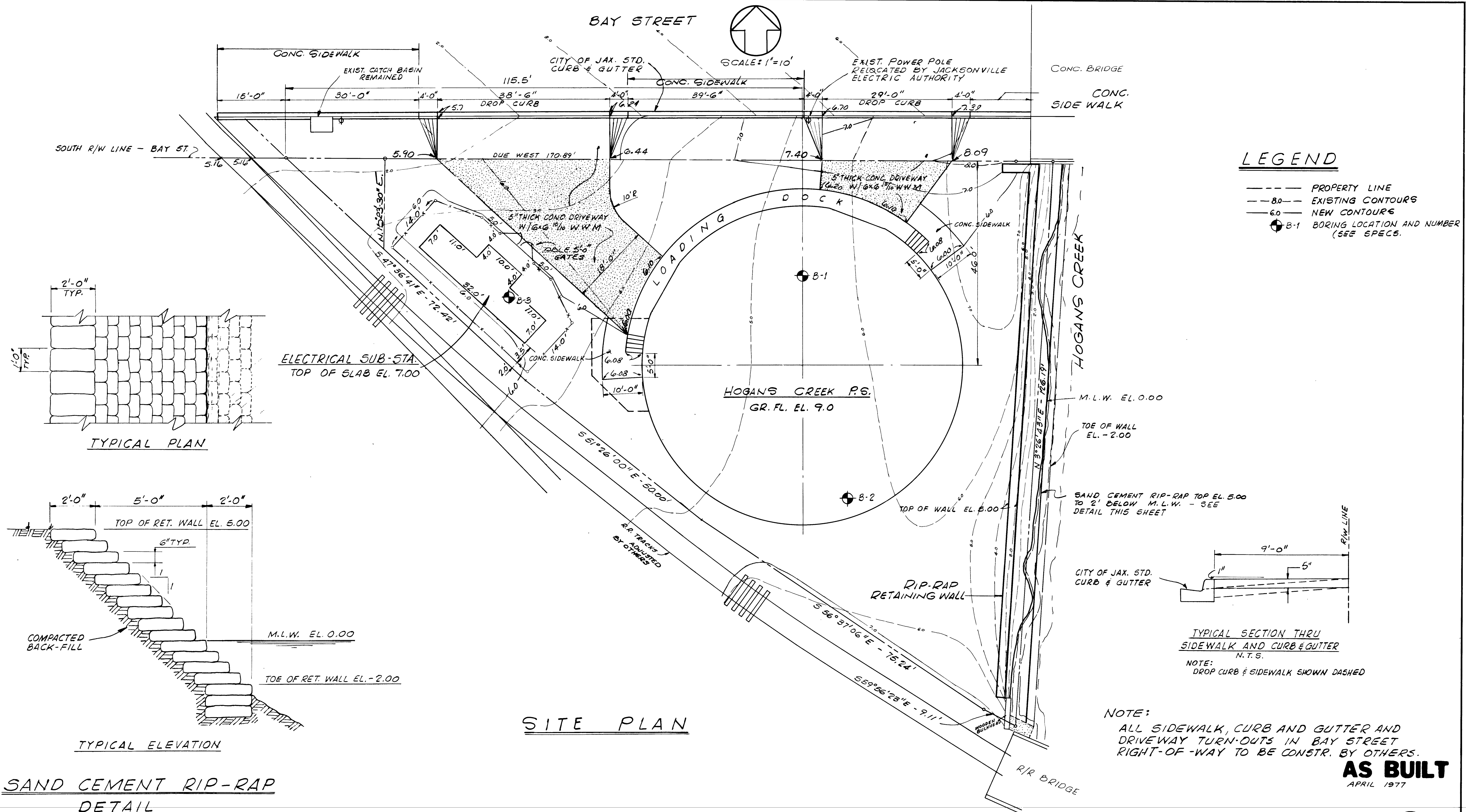
SHEET NO.	DWG. NO.	TITLE	SHEET NO.	DWG. NO.	TITLE
1	1	COVER SHEET	STRUCTURAL CONT.		
2	2	INDEX TO DRAWINGS	22	S-3	FRAMING PLAN AT ELEV. - 1.95
GRADING			23	S-4	GROUND FLOOR FRAMING PLAN
			24	S-5	ROOF FRAMING PLAN
3	G-1	SITE PLAN	25	S-6	CROSS SECTION
MECHANICAL			26	S-7	CROSS SECTION
			27	S-8	STAIR DETAILS
4	M-1	MECHANICAL SITE PLAN	28	S-9	CRANE RAIL AND MONORAIL SYSTEM/COLUMN SCHEDULE
5	M-2	PLAN AT ELEV. 9.00	29	S-10	BEAM AND SLAB SCHEDULE
6	M-3	PLAN AT ELEV. - 1.95	ARCHITECTURAL		
7	M-4	PLAN AT ELEV. -16.75	30	A-1	PLAN, ELEVATIONS & SCHEDULES
8	M-5	LONGITUDINAL SECTION	31	A-2	SECTIONS & DETAILS
9	M-6	TRANSVERSE SECTION	32	A-3	SECTIONS & DETAILS
10	M-7	PLUMBING PLAN AT ELEV. 9.00	ELECTRICAL		
11	M-8	PLUMBING PLAN AT ELEV. -5.42	33	E-1	SITE PLAN AND LEGEND
12	M-9	PLUMBING PLAN AT ELEV. -16.75	34	E-2	13.8 KVA OUTDOOR UNIT SUBSTATION
13	M-10	SECTIONS AND DETAILS	35	E-3	SINGLE LINE DIAGRAM
14	M-11	SCHEMATICS AND TYPICAL DETAILS	36	E-4	SINGLE LINE DIAGRAM
15	M-12	ACCUMULATOR SYSTEM	37	E-5	POWER DISTRIBUTION CENTER
16	M-13	STANDARD DETAILS	38	E-6	POWER PLAN AT ELEVATION +9.00
17	M-14	HEATING AND VENTILATION/FLOOR PLAN AT ELEV. 9.00	39	E-7	ROOF PLAN/POWER & LIGHTING PLAN
18	M-15	HEATING AND VENTILATION/FLOOR PLAN AT ELEV. -5.42	40	E-8	PLAN AT ELEVATION -1.95
19	M-16	HEATING AND VENTILATION/SCHEDULES AND SECTION	41	E-9	PLAN AT ELEVATION -16.75
STRUCTURAL			42	E-10	CONDUIT AND CABLE SCHEDULES
20	S-1	GENERAL NOTES AND TYPICAL DETAILS			
21	S-2	BOTTOM SLAB PLAN AT ELEV. -16.75			

7522

S

AS BUILT
APRIL 1977

										SUBMITTED BY: <i>Dwight Bryant</i> REG. ENGR. FLA. NO. <u>4921</u> DATE <u>10/1/72</u> FLOOD & ASSOCIATES, INC.		APPROVED BY: <i>[Signature]</i> REG. ENGR. FLA. NO. <u>2170</u> DATE <u>2/1/73</u> WATER AND SEWER DIVISION AUTHORIZED BY: <i>[Signature]</i> REG. ENGR. FLA. NO. <u>2170</u> DATE <u>2/1/73</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA		CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM PHASE 2 HOGANS CREEK PUMPING STATION		FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT DETAILED BY: <u>AL</u> SCALE <u>AS SHOWN</u> DATE <u>AUGUST 1972</u> CHECKED BY: <u>NB</u> 7205-3			INDEX TO DRAWINGS CONTR. NO. <u>JS-23</u> PROJ. NO. <u>011-3</u> SHEET NO. <u>2</u> OF <u>42</u>		
NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE													
REVISIONS		SUBMITTAL			APPROVAL																

[illegible]

LEGEND

—W—	POTABLE WATER
—SW—	PUMP GLAND SEAL WATER
—FW—	FLUSHING WATER
GV	GATE VALVE
CV	CHECK VALVE
RCP	REINFORCED CONCRETE PIPE
C.I.	CAST IRON
D.I.	DUCTILE IRON
L.R.	LONG RADIUS
M.J.	MECHANICAL JOINT

MECHANICAL SITE PLAN

SCALE: 1"=10'

NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
	REVISIONS							

SUBMITTED BY: <i>Burkhardt</i>	APPROVED BY: <i>H. H. H.</i>
REG. ENGR. FLA. NO. 4921 DATE 10/72	REG. ENGR. FLA. NO. 4270 DATE 2/73
FLOOD & ASSOCIATES, INC.	WATER AND SEWER DIVISION
APPROVAL	AUTHORIZED BY: <i>[Signature]</i>
RECOMMENDED BY: <i>[Signature]</i>	REG. ENGR. FLA. NO. 6847 DATE 2/73
REG. ENGR. FLA. NO. 9063 DATE 2/73	OFFICE OF DIRECTOR OF PUBLIC WORKS
SVERDRUP & PARCEL AND ASSOCIATES, INC.	CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

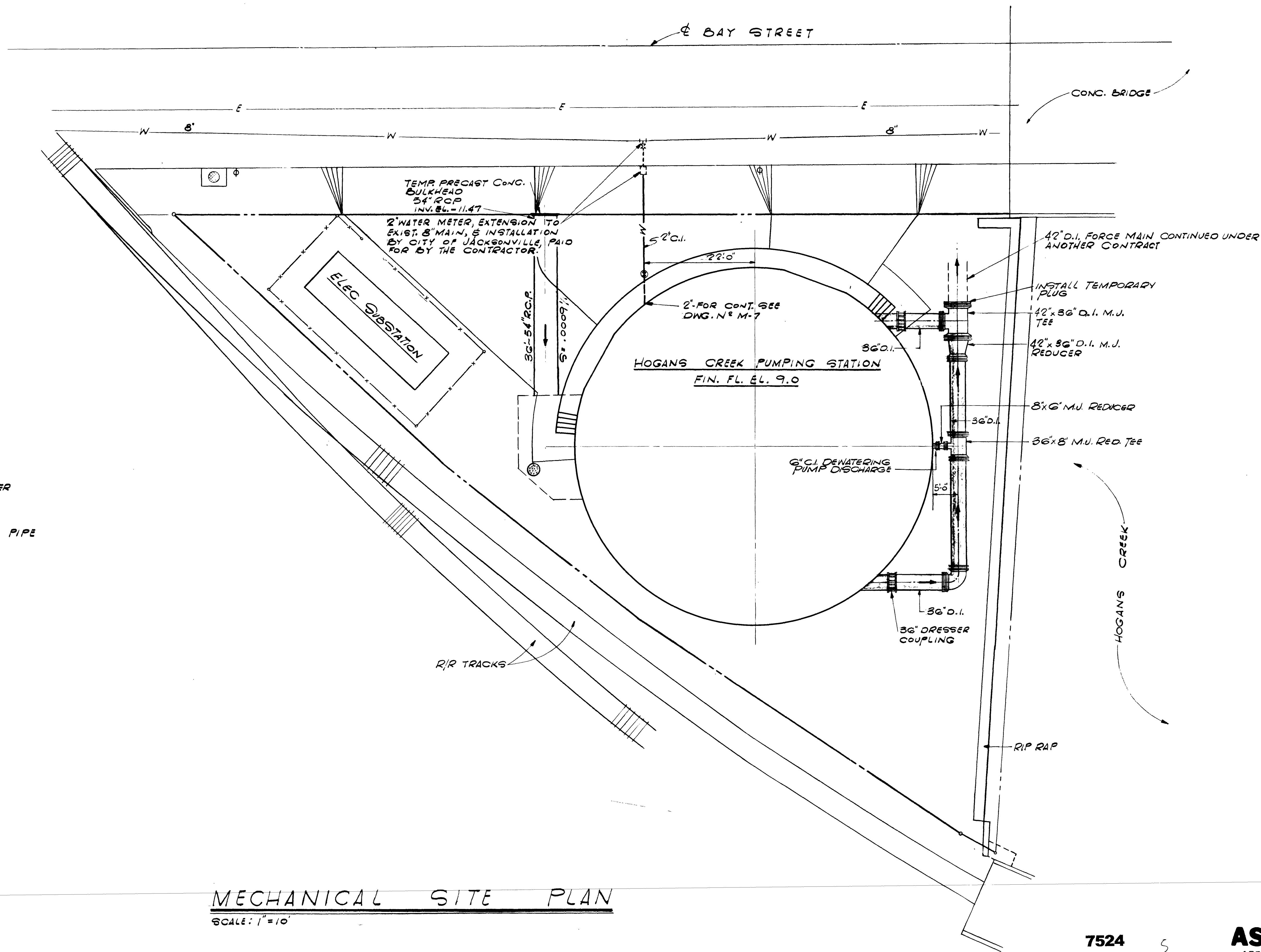
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT
DETAILED BY: SBD SCALE AS SHOWN DATE AUGUST 1972
CHECKED BY: RVT 7205-3

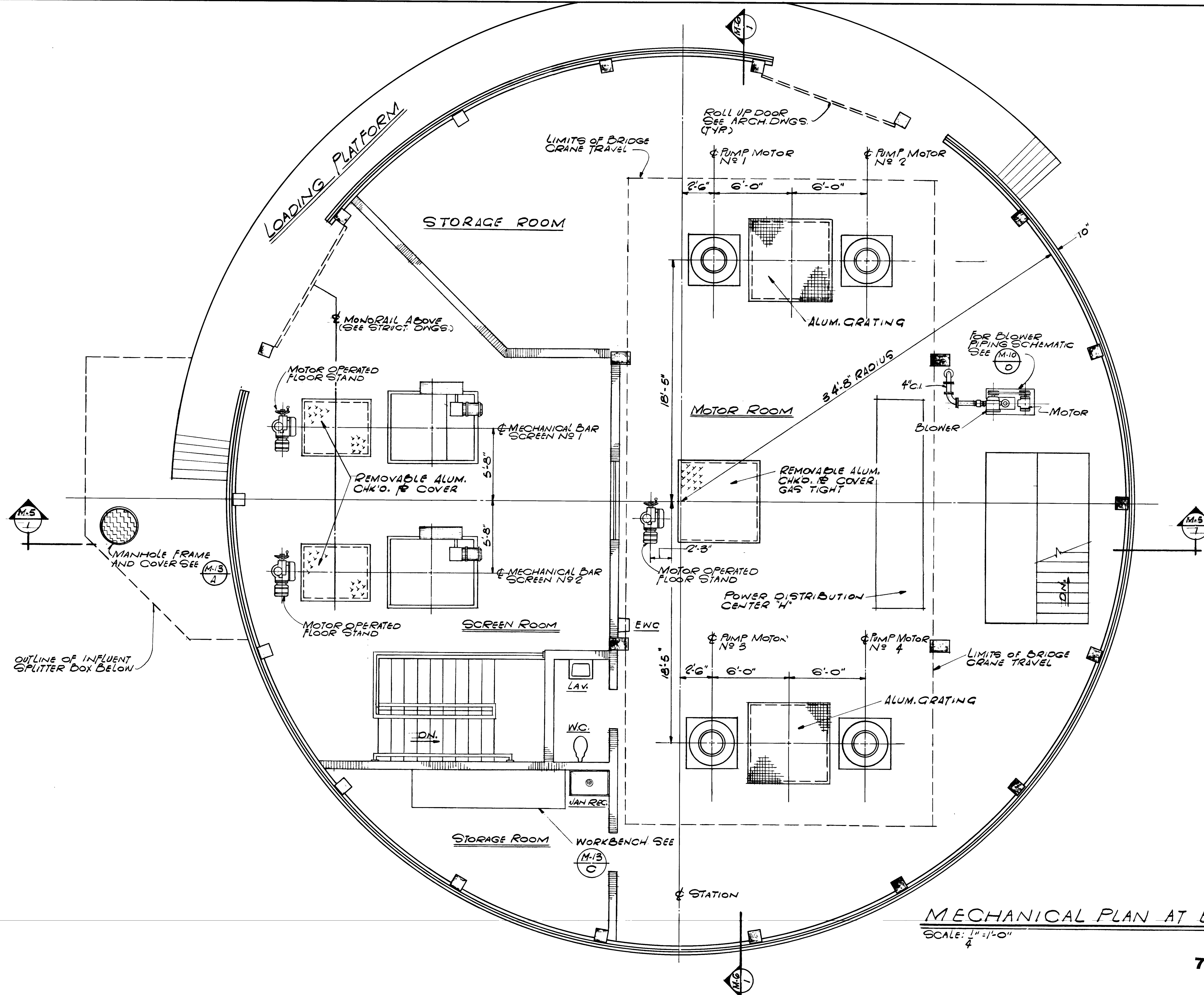
MECHANICAL SITE PLAN
CONTR. NO. JS-23
PROJ. NO. 011-3
SHEET NO. 4 OF 42

7524

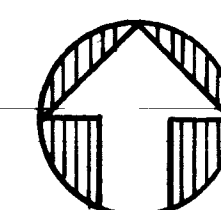
5

AS BUILT (M-1)
APRIL 1977





7525



AS BUILT
APRIL 1977

M-2

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

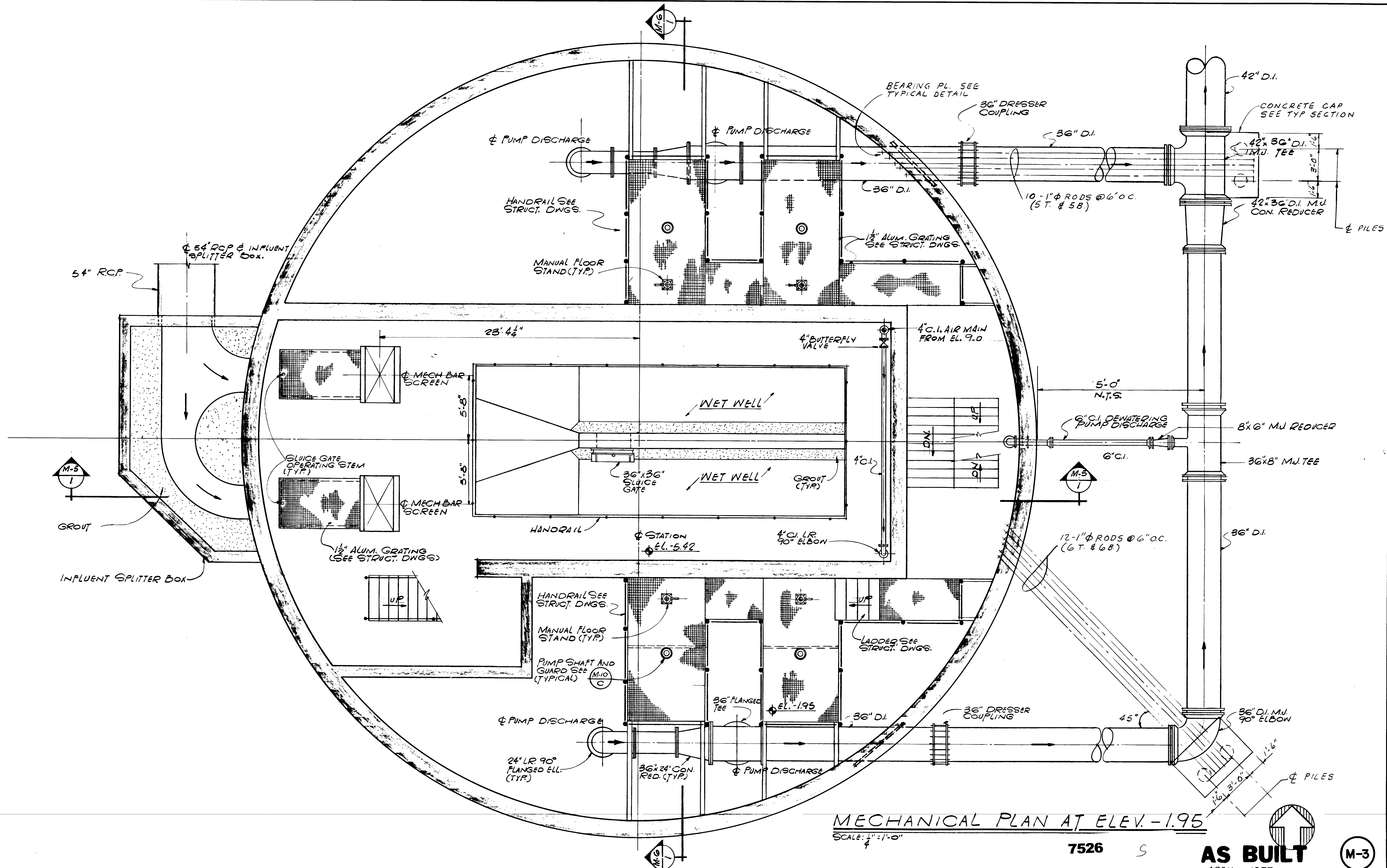
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT

SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT
DETAILED BY: **MLN** SCALE **AS SHOWN** DATE **AUGUST 1972**
CHECKED BY: **RVT** 7205-3

PLAN AT ELEV. 9.00

CONTR. NO. **JS-23** PROJ. NO. **011-3** SHEET NO. **5** OF **42**

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MECHANICAL PLAN AT ELEV. -1.95
SCALE: 1/4" = 1'-0"

7526

AS BUILT
APRIL 1977

M-3

NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE

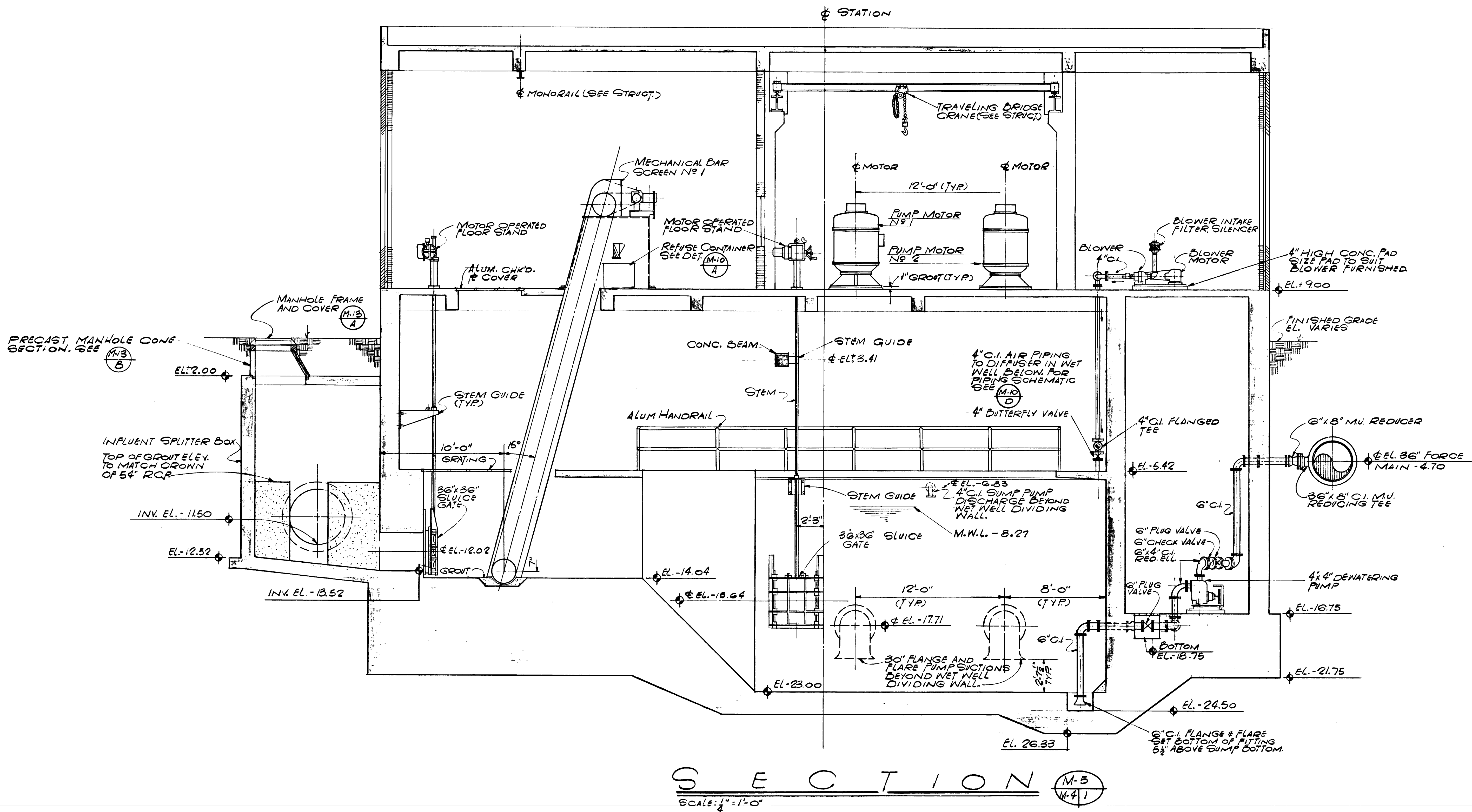
SUBMITTED BY: *[Signature]*
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL
RECOMMENDED BY: *[Signature]*
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: *[Signature]*
REG. ENGR. FLA. NO. 4270 DATE 2/72
WATER AND SEWER DIVISION
AUTHORIZED BY: *[Signature]*
REG. ENGR. FLA. NO. 4647 DATE 2/72
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT
DETAILED BY: MLN SCALE AS SHOWN DATE AUGUST 1972
CHECKED BY: RVT 7205-3

PLAN AT ELEV. -1.95
CONTR. NO. JS-23 PROJ. NO. 011-3 SHEET NO. 6 OF 42



7528

AS BUILT
APRIL 1977

M-5

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

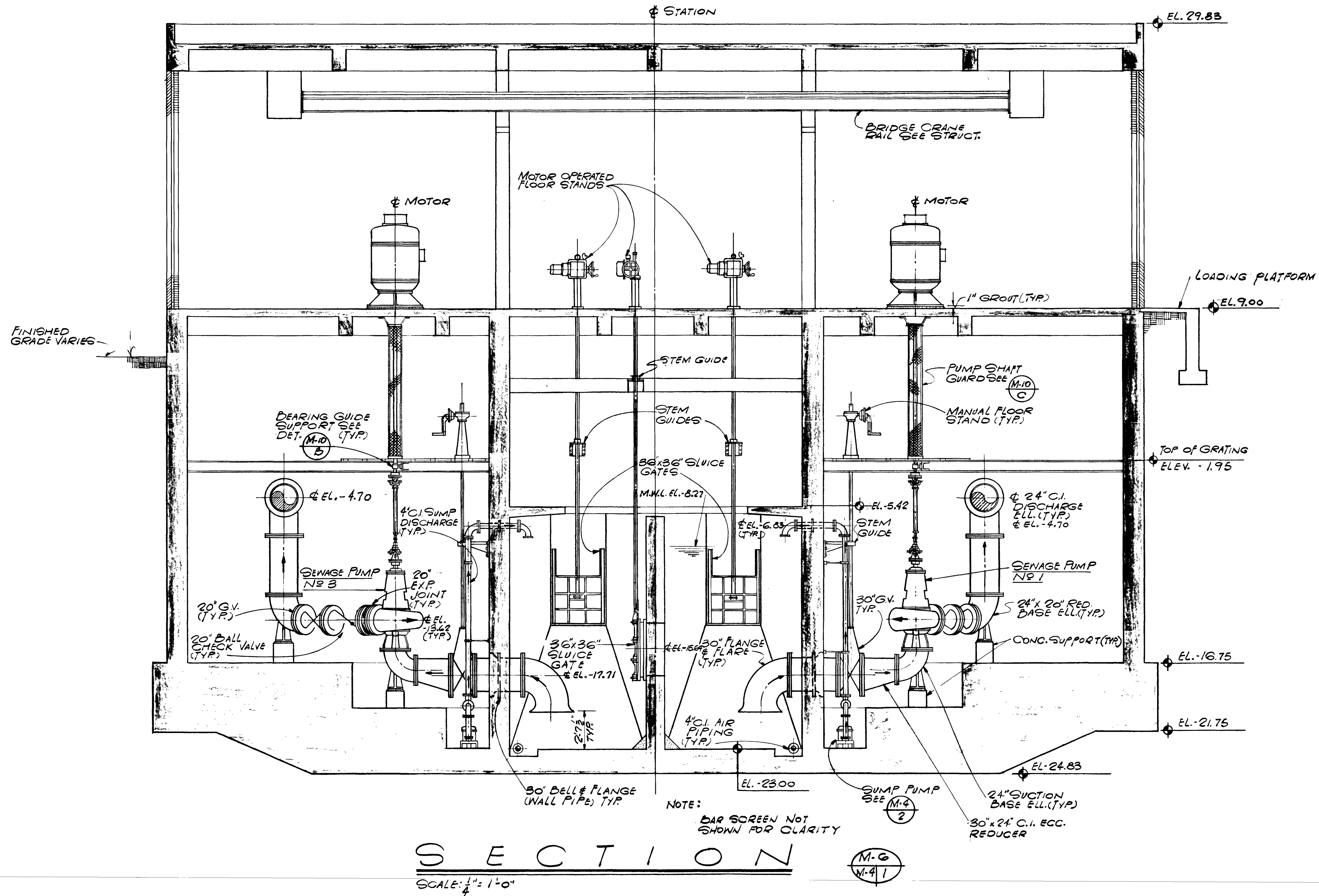
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT

SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT
DETAILED BY: **MLN** SCALE AS SHOWN DATE **AUGUST 1972**
CHECKED BY: **RVT** 7205-3

LONGITUDINAL SECTION

CONTR. NO. **JS-23** PROJ. NO. **OII-3** SHEET NO. **8** OF **42**

SUBMITTED BY: <i>Don F. McQuinn</i>		APPROVED BY: <i>Don F. McQuinn</i>	
REG. ENGR. FLA. NO. 4921 DATE 10/72		REG. ENGR. FLA. NO. 4776 DATE 2/73	
FLOOD & ASSOCIATES, INC.		WATER AND SEWER DIVISION	
APPROVAL		AUTHORIZED BY: <i>Don F. McQuinn</i>	
RECOMMENDED BY: <i>Don F. McQuinn</i>		REG. ENGR. FLA. NO. 6847 DATE 2/73	
NO.		CITY OF JACKSONVILLE, FLORIDA	
DESCRIPTION		OFFICE OF DIRECTOR OF PUBLIC WORKS	
BY		SVERDRUP & PARCEL AND ASSOCIATES, INC.	
FIRM			
DATE			
S&P			
DATE			
PW			
DATE			
SUBMITTAL			
APPROVAL			



7529

AS BUILT
APRIL 1977

M-6

NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
	REVISIONS							

SUBMITTED BY: <i>Don L. Prosser</i>	APPROVED BY: <i>Don L. Prosser</i>
REG. ENGR. FLA. NO. 4921 DATE 10/72	REG. ENGR. FLA. NO. 4270 DATE 2/73
FLOOD & ASSOCIATES, INC.	WATER AND SEWER DIVISION
APPROVAL RECOMMENDED BY: <i>Don L. Prosser</i>	AUTHORIZED BY: <i>Don L. Prosser</i>
REG. ENGR. FLA. NO. 4270 DATE 2/73	REG. ENGR. FLA. NO. 4270 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.	OFFICE OF DIRECTOR OF PUBLIC WORKS
	CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA	
SEWERAGE IMPROVEMENT PROGRAM	
PHASE 2	
HOGANS CREEK PUMPING STATION	

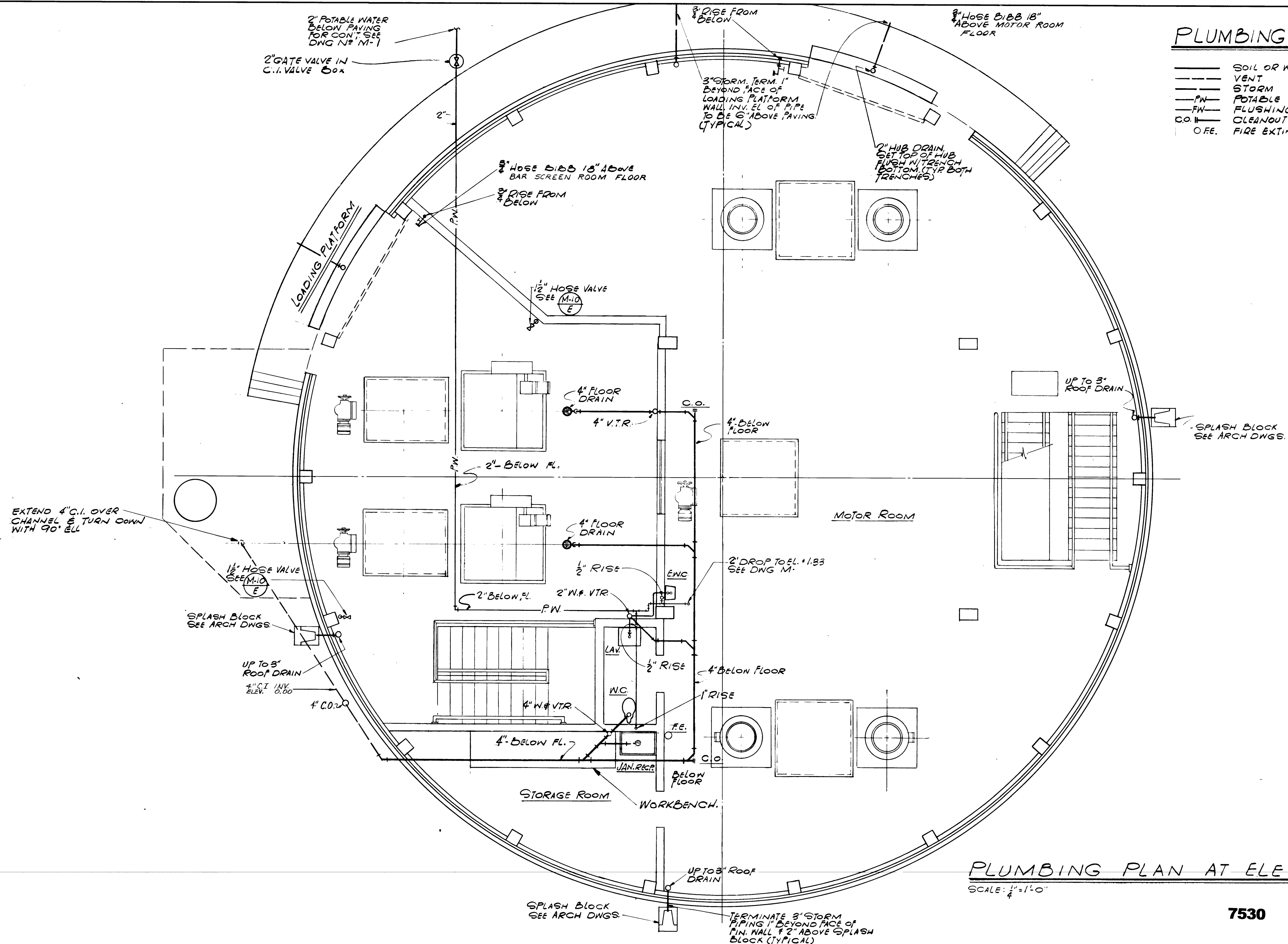
FLOOD & ASSOCIATES, INC.	
DESIGN CONSULTANT	
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT	
DETAILED BY: <i>MLN</i>	SCALE AS SHOWN
CHECKED BY: <i>RVT</i>	DATE AUGUST 1972
	7205-3

TRANSVERSE SECTION	
CONTR. NO. JS-23	PROJ. NO. 011-3
SHEET NO. 9	OF 42

CONTR. NO. JS-23	
PROJ. NO. 011-3	
SHEET NO. 9 OF 42	

PLUMBING LEGEND

---	SOIL OR WASTE
---	VENT
---	STORM
---	P.W. POTABLE WATER
---	F.W. FLUSHING WATER
---	C.O. CLEANOUT BELOW FL. OR GRADE
○	FE. FIRE EXTINGUISHER



PLUMBING PLAN AT ELEV. 9.00
SCALE: 1/4" = 1'-0"

7530

AS BUILT
APRIL 1977

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

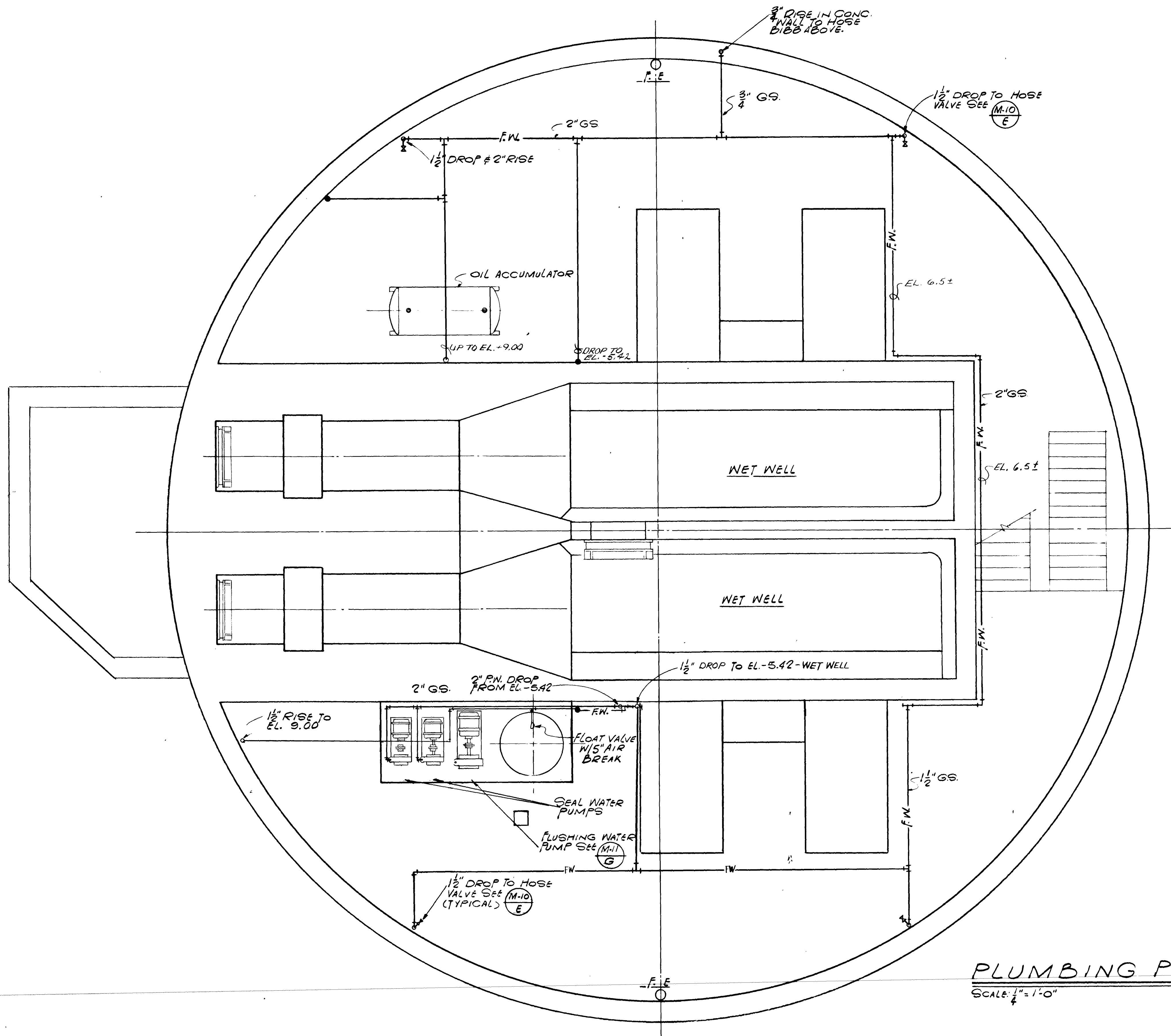
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT
DETAILED BY: MLN
CHECKED BY: RVT
SCALE AS SHOWN
DATE AUGUST 1972
7205-3

PLUMBING PLAN AT ELEV. 9.00
CONTR. NO. JS-23
PROJ. NO. OII-3
SHEET NO. 10 OF 42

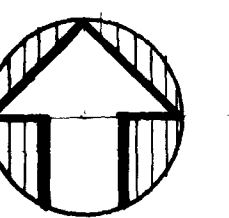
NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
	REVISIONS							

SUBMITTED BY: Bill E. Prunty
REG. ENGR. FLA. NO. 1921 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVED BY: [Signature]
REG. ENGR. FLA. NO. 4270 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: [Signature]
REG. ENGR. FLA. NO. 6842 DATE 2/72
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

APPROVAL
RECOMMENDED BY: [Signature]
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.



PLUMBING PLAN AT ELEV. -16.75
SCALE: 1/4" = 1'-0"

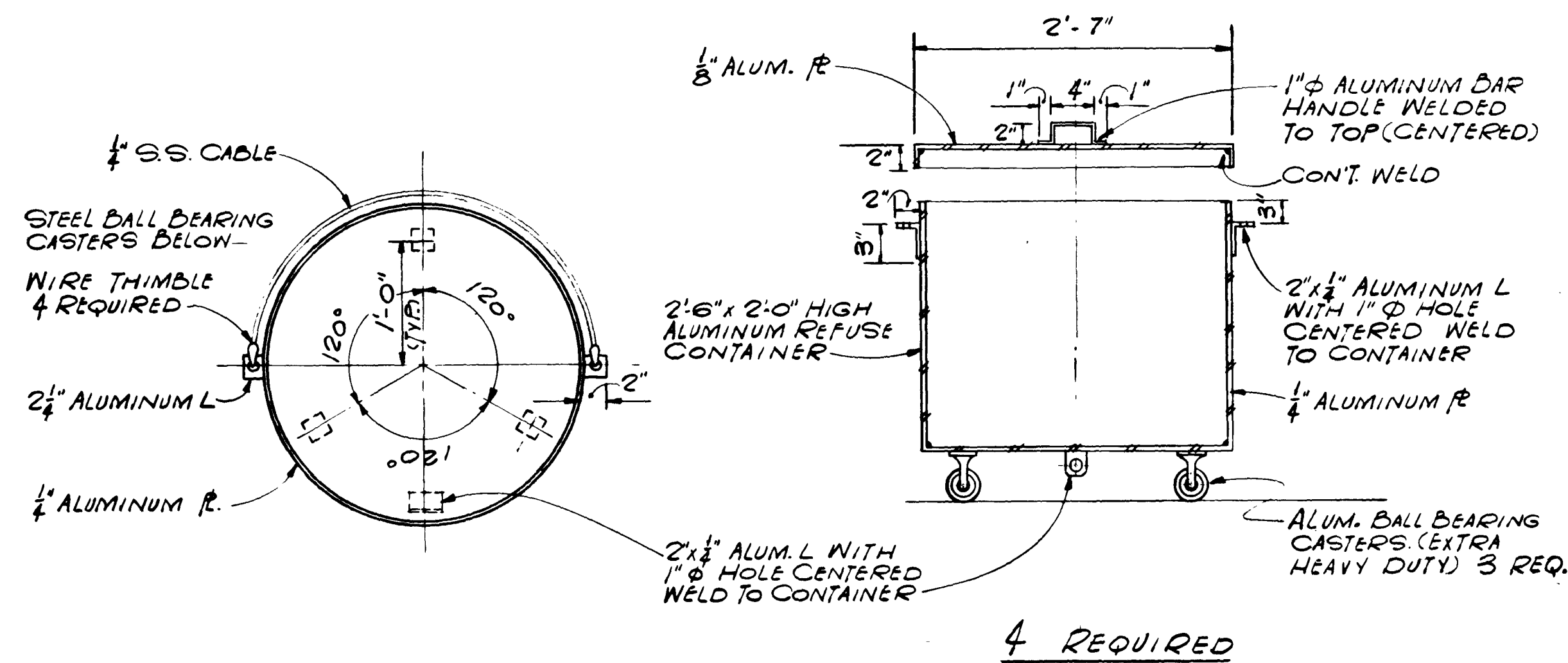


7532

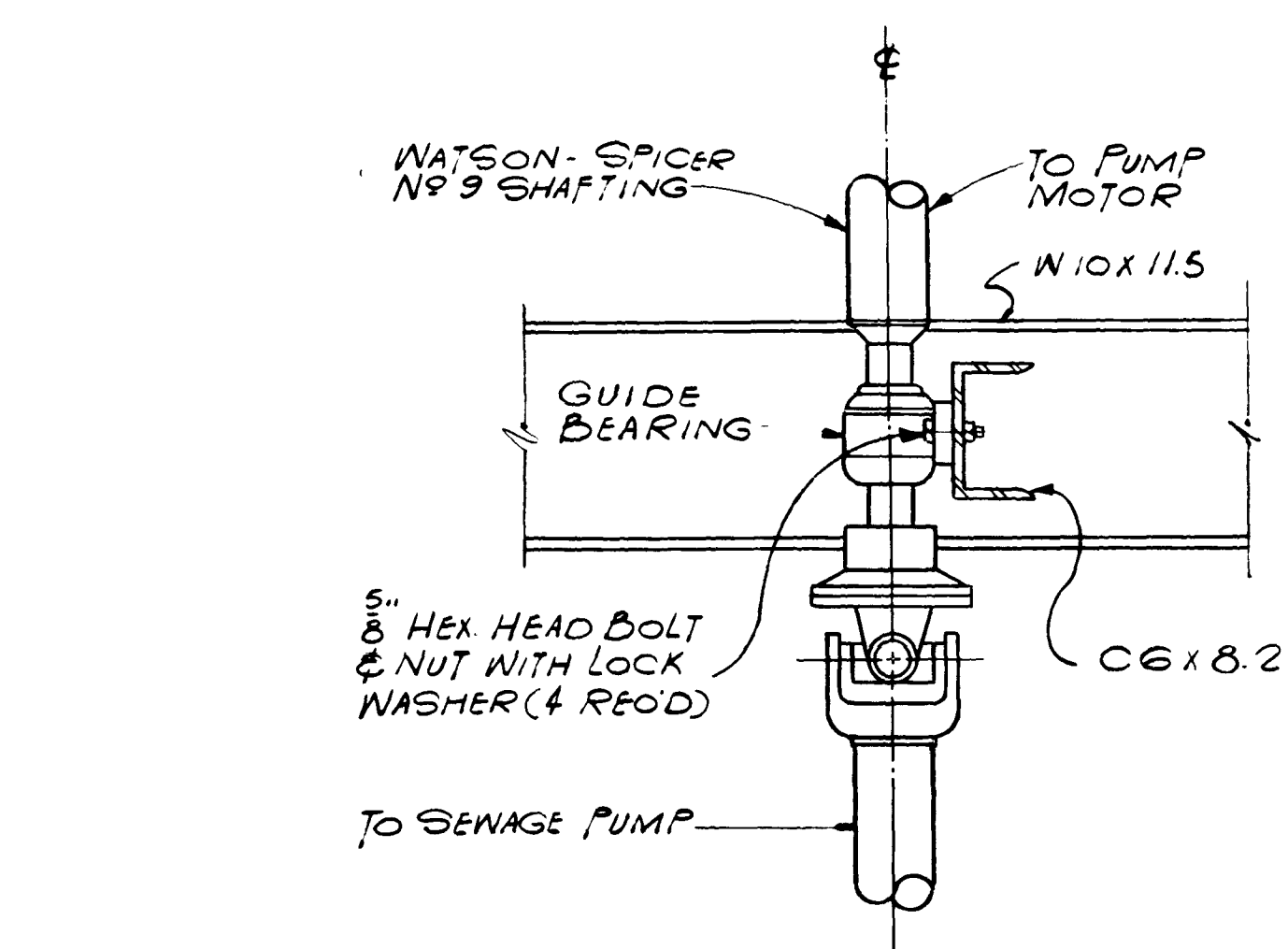
AS BUILT
APRIL 1977

M-9

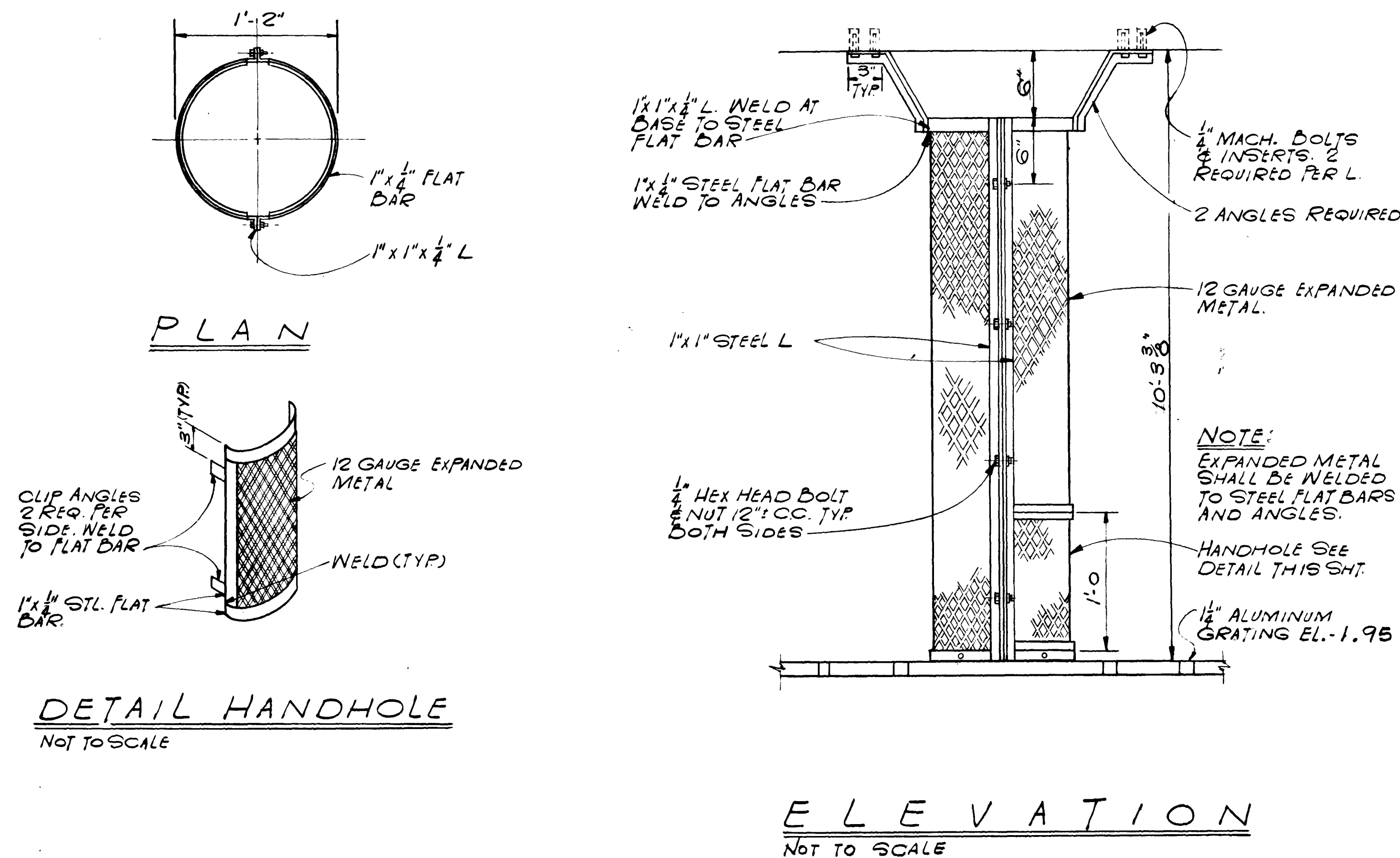
										SUBMITTED BY: <i>Burt Tom and</i> REG. ENGR. FLA. NO. 4921 DATE 10/72 FLOOD & ASSOCIATES, INC.		APPROVED BY: <i>[Signature]</i> REG. ENGR. FLA. NO. 4278 DATE 1/73 WATER AND SEWER DIVISION		CITY OF JACKSONVILLE, FLORIDA		FLOOD & ASSOCIATES, INC.		PLUMBING PLAN AT ELEV. -16.75	
										APPROVAL RECOMMENDED BY: <i>[Signature]</i> REG. ENGR. FLA. NO. 9063 DATE 2/73 SVERDRUP & PARCEL AND ASSOCIATES, INC.		AUTHORIZED BY: <i>[Signature]</i> REG. ENGR. FLA. NO. 4847 DATE 2/73 OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA		SEWERAGE IMPROVEMENT PROGRAM PHASE 2 HOGANS CREEK PUMPING STATION		DESIGN CONSULTANT SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT			
										NO.		DESCRIPTION		BY		FIRM		DATE	
										REVISIONS		SUBMITTAL		APPROVAL		DATE		PW	
										CONTR. NO. JS-23		PROJ. NO. 011-3		SHEET NO. 12 OF 42		DATE AUGUST 1972		SCALE AS SHOWN	
										CHECKED BY: RVT		7205-3							



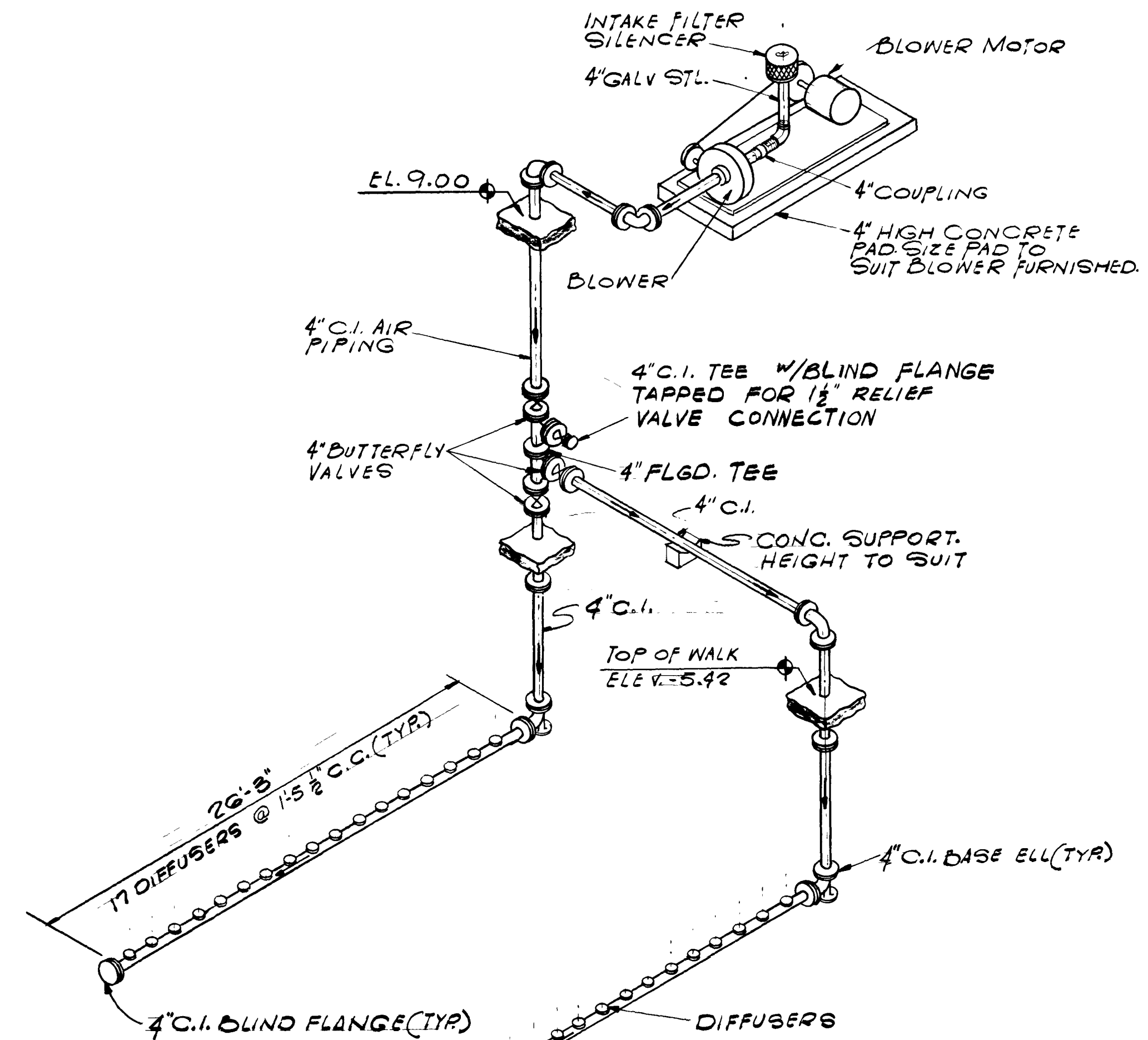
DETAIL REFUSE CONTAINER (4 REQ.)



DETAIL GUIDE BEARING SUPPORT (M-10 M-6 B)

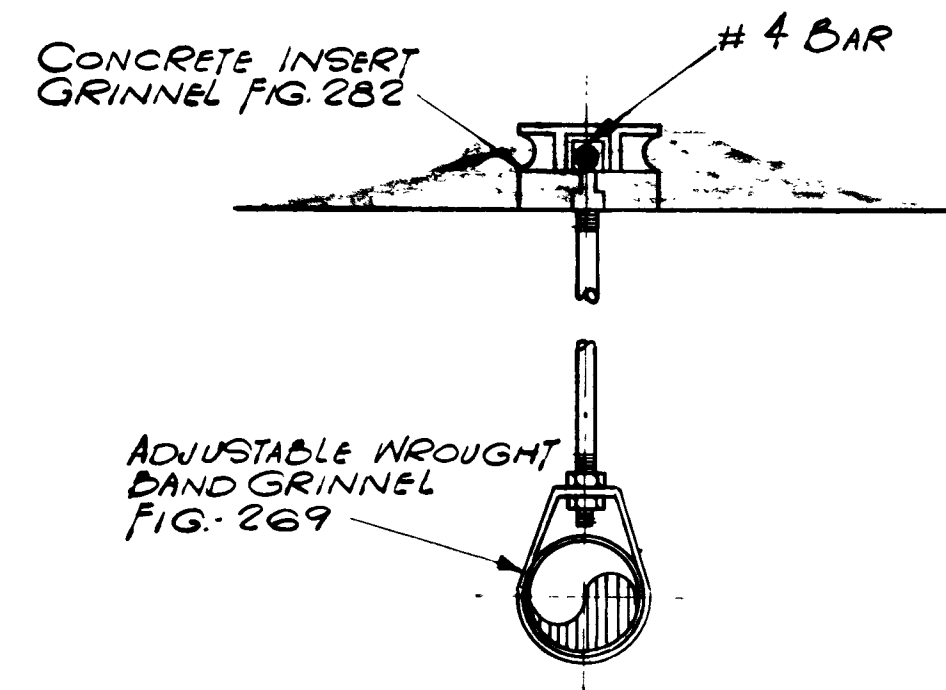


DETAIL HANDHOLE (NOT TO SCALE)



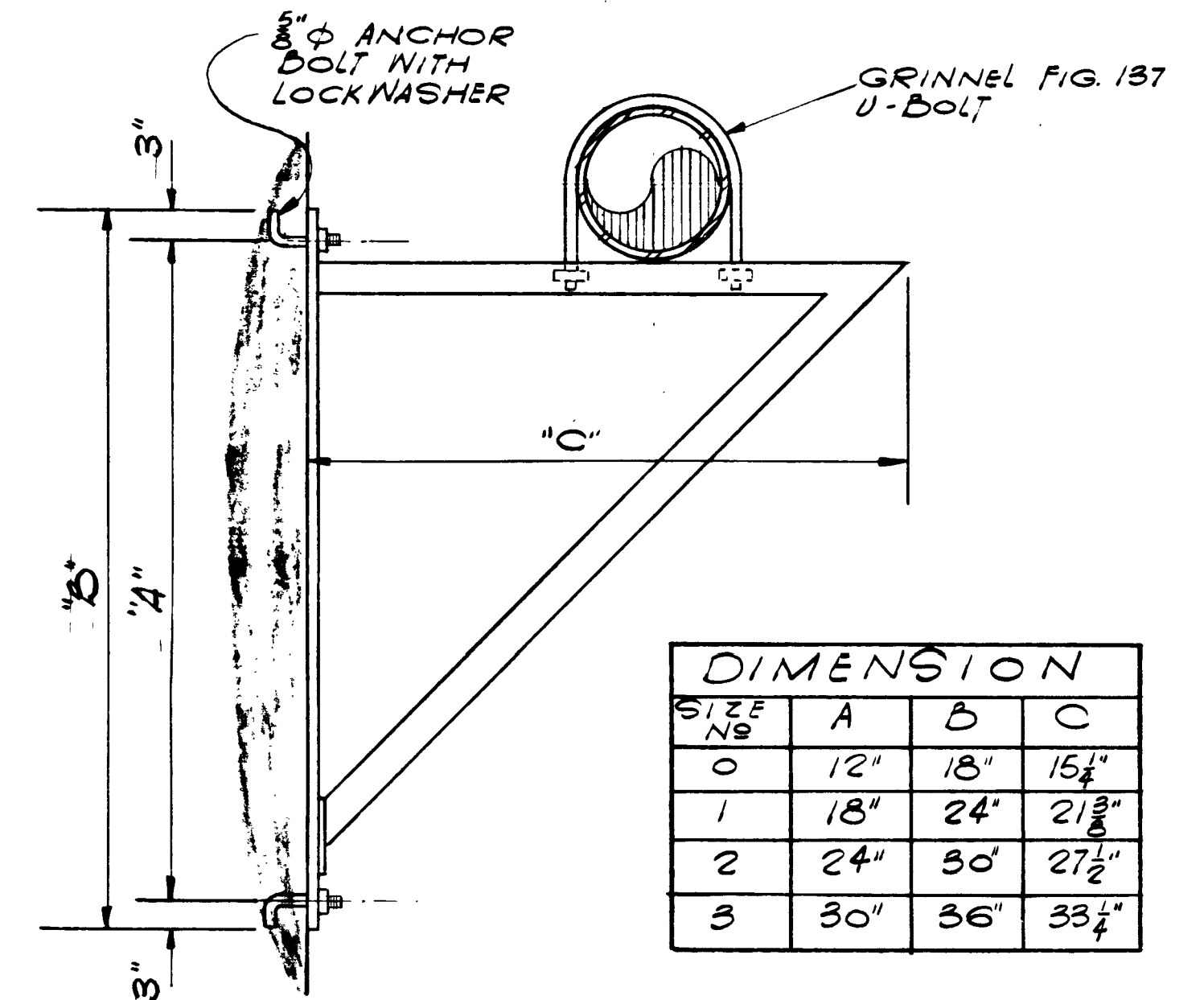
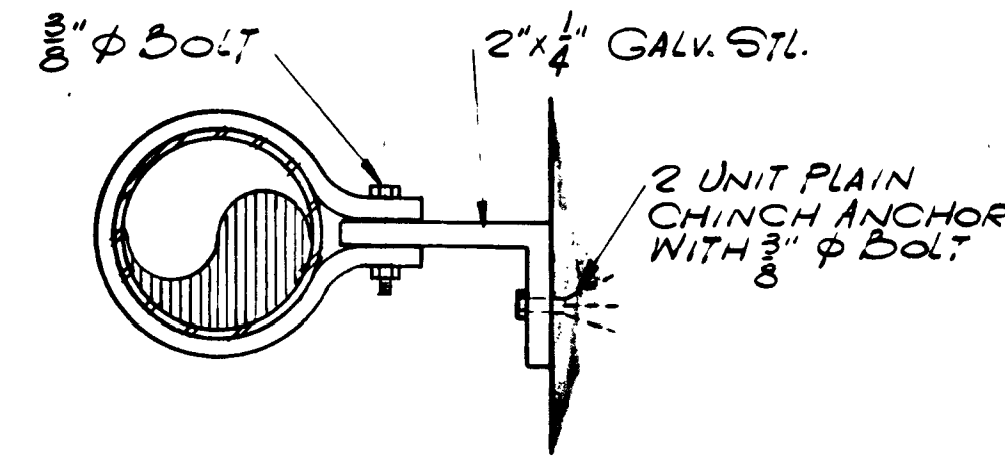
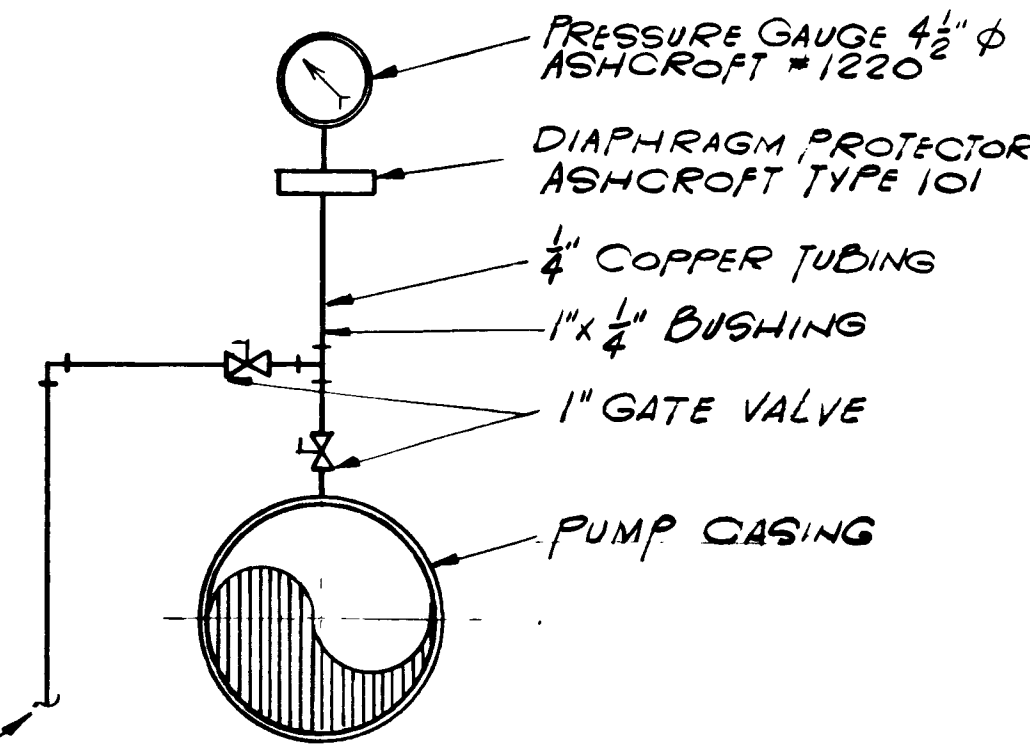
BLOWER PIPING SCHEMATIC (M-10 M-2 D)

SUBMITTED BY: <i>Don L. Pittman</i> REG. ENGR. FLA. NO. 5921 DATE 10/72 FLOOD & ASSOCIATES, INC.										APPROVED BY: <i>W. H. Hottel</i> REG. ENGR. FLA. NO. 421 DATE 2/73 WATER AND SEWER DIVISION AUTHORIZED BY: <i>W. H. Hottel</i> REG. ENGR. FLA. NO. 6547 DATE 2/73 OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM PHASE 2 HOGANS CREEK PUMPING STATION										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT DETAILED BY: MLN CHECKED BY: RVT SCALE AS SHOWN DATE AUGUST 1972 7205-3										SECTIONS AND DETAILS CONTR. NO. JS-23 PROJ. NO. 011-3 SHEET NO. 13 OF 42									
NO. DESCRIPTION REVISIONS										BY FIRM DATE S&P DATE PW DATE SUBMITTAL APPROVAL										NOT TO SCALE										7533										AS BUILT (M-10) APRIL 1977									



ROD LOAD - TABLE "A"	
ROD SIZE	MAX. LOAD LBS.
3/8"	610
1/2"	1130
5/8"	1810
3/4"	2710
7/8"	3770
1"	4960
1 1/8"	6230
1 1/4"	8000
1 1/2"	11630

1" COPPER FIELD
ROUTE TO PUMP



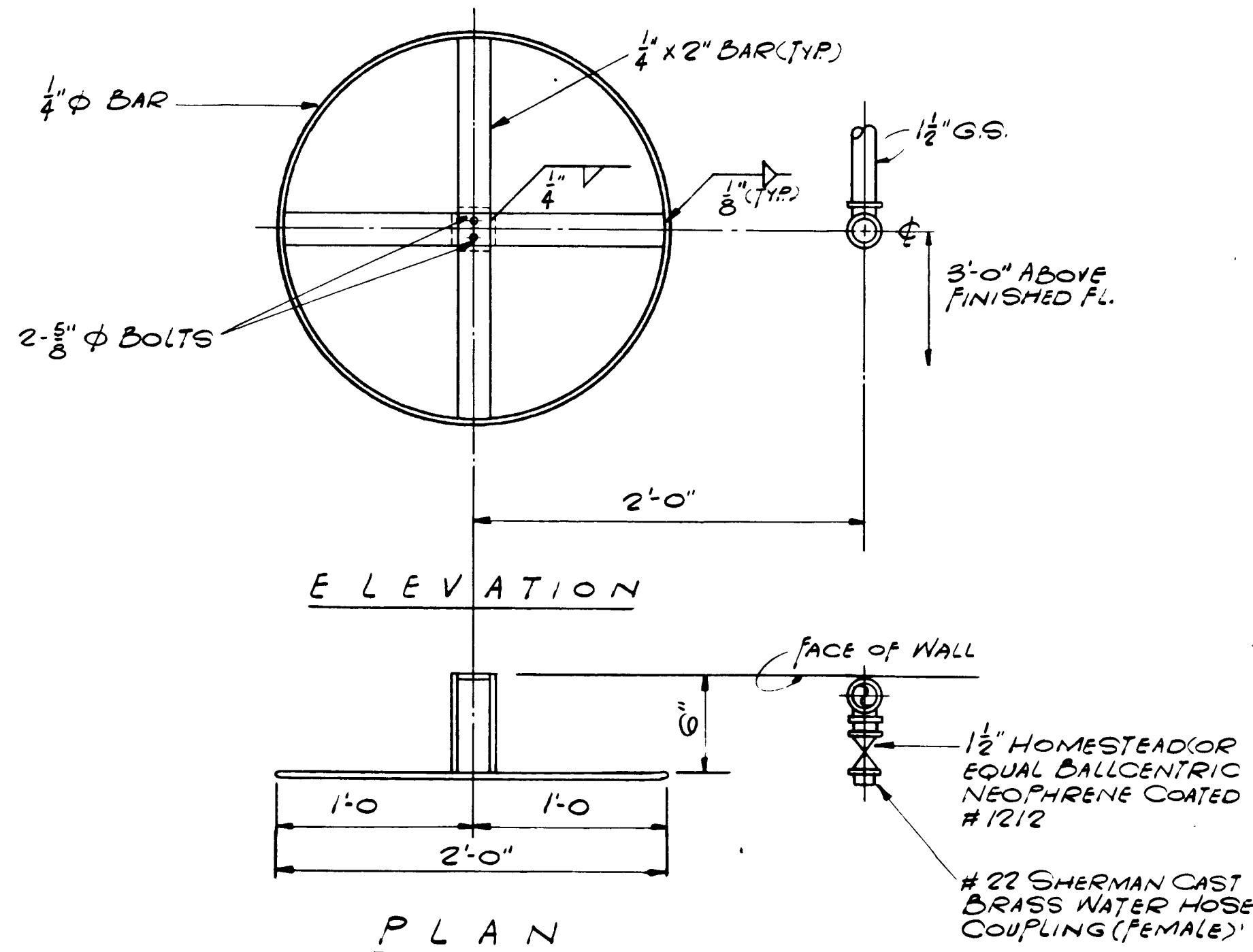
DIMENSION			
SIZE No.	A	B	C
0	12"	18"	15 1/4"
1	18"	24"	21 3/8"
2	24"	30"	27 1/2"
3	30"	36"	33 1/4"

**TYPICAL PIPE HANGER
FOR 3/4 TO 8" PIPE DETAIL**
NOT TO SCALE

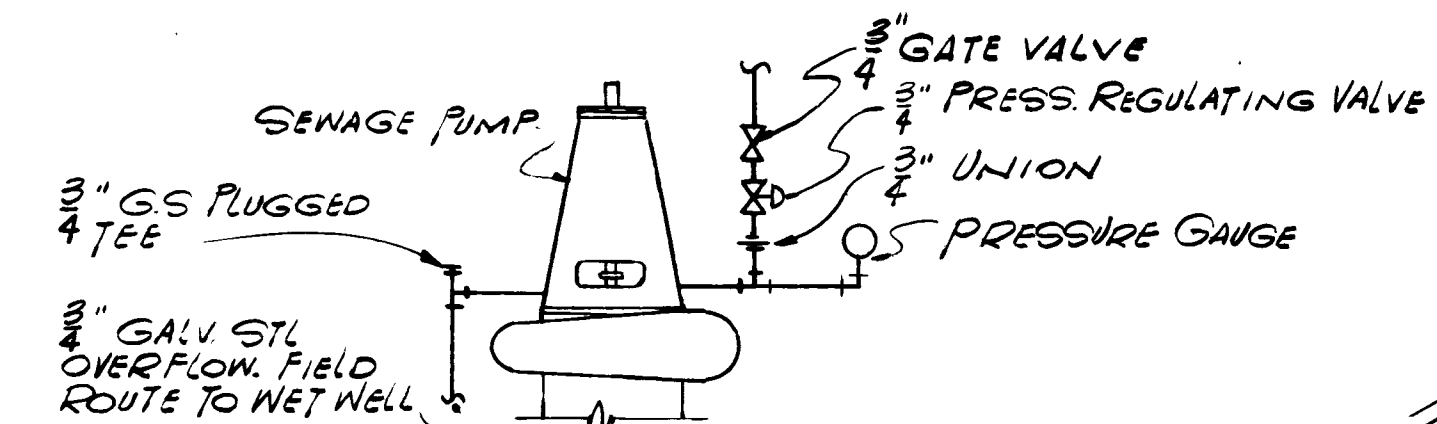
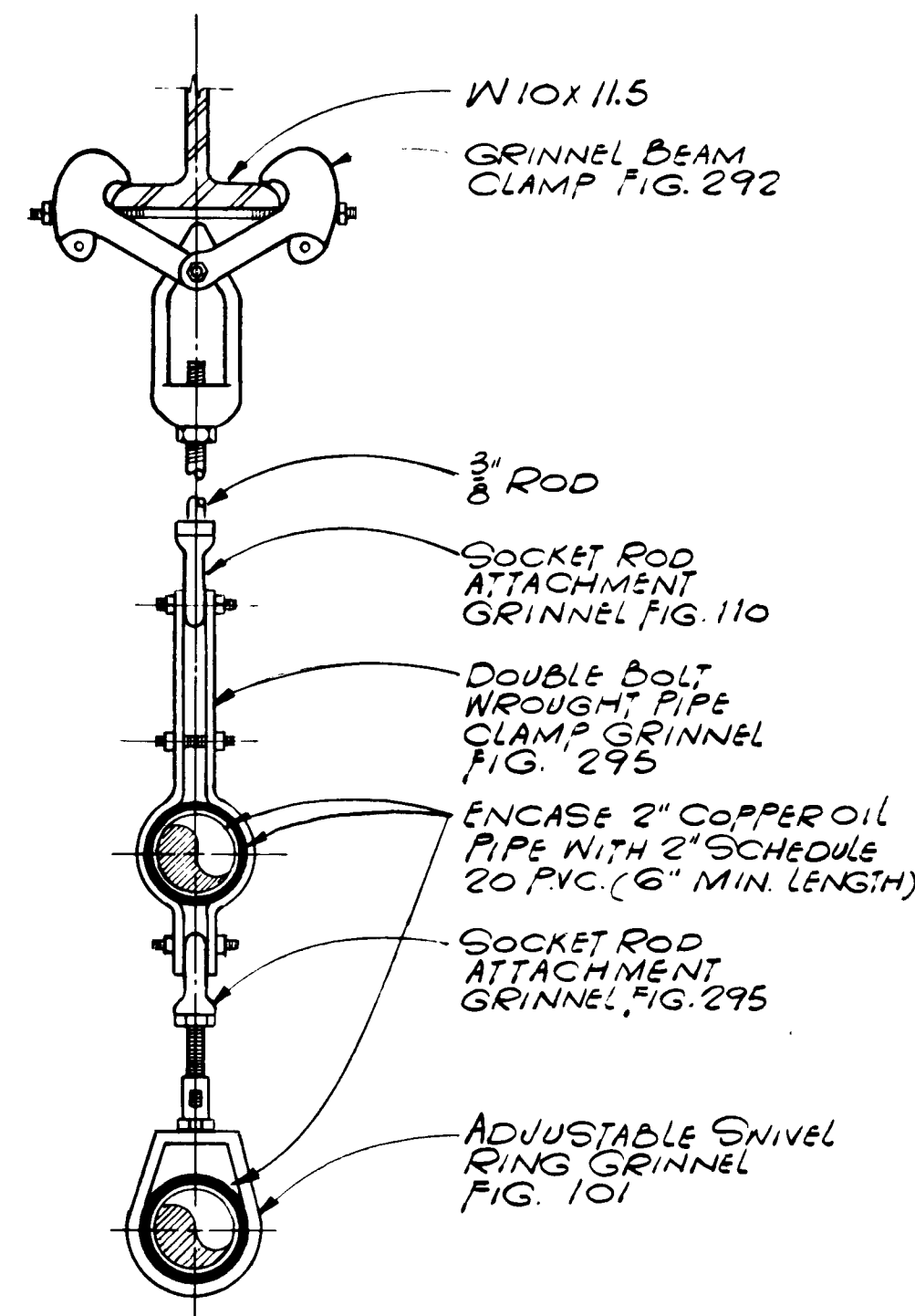
**TYPICAL PRESSURE
GAGE DETAIL**
NOT TO SCALE

**TYPICAL PIPE STAND-
OFF DETAIL**
NOT TO SCALE

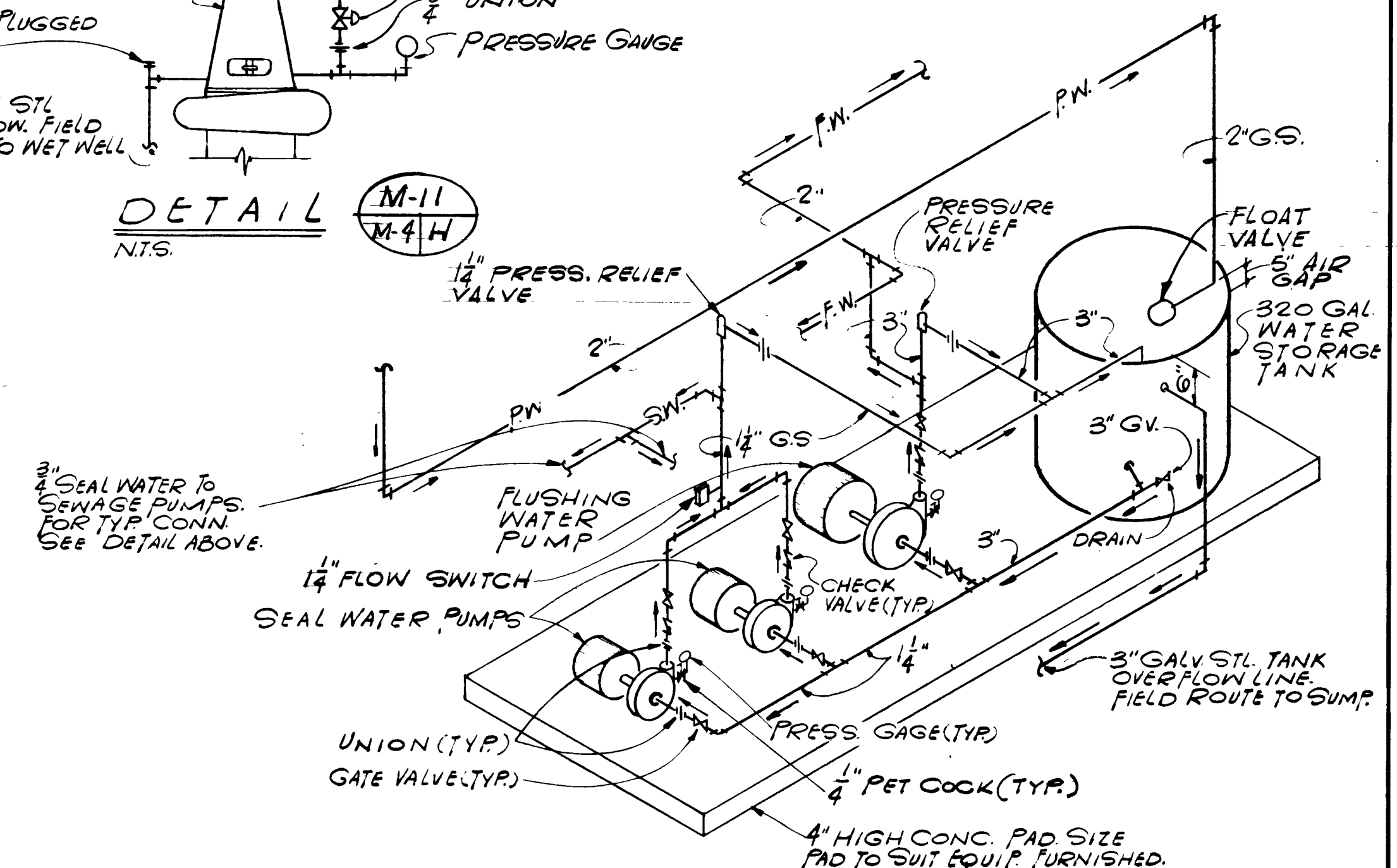
DETAIL TYPICAL WALL & PIPE BRACKET



NOTE:
MAXIMUM WEIGHT
PER HANGER SHALL
NOT EXCEED 300 LBS.



DETAIL
N.T.S.



HOSE STATION & REEL DETAIL
SCALE: 1/2" = 1'-0"

**DETAIL TYPICAL OIL PIPING
HANGER**
NOT TO SCALE

**SEAL & FLUSHING WATER PUMPS
PIPING SCHEMATIC**
NOT TO SCALE

7534

AS BUILT
APRIL 1977

M-11

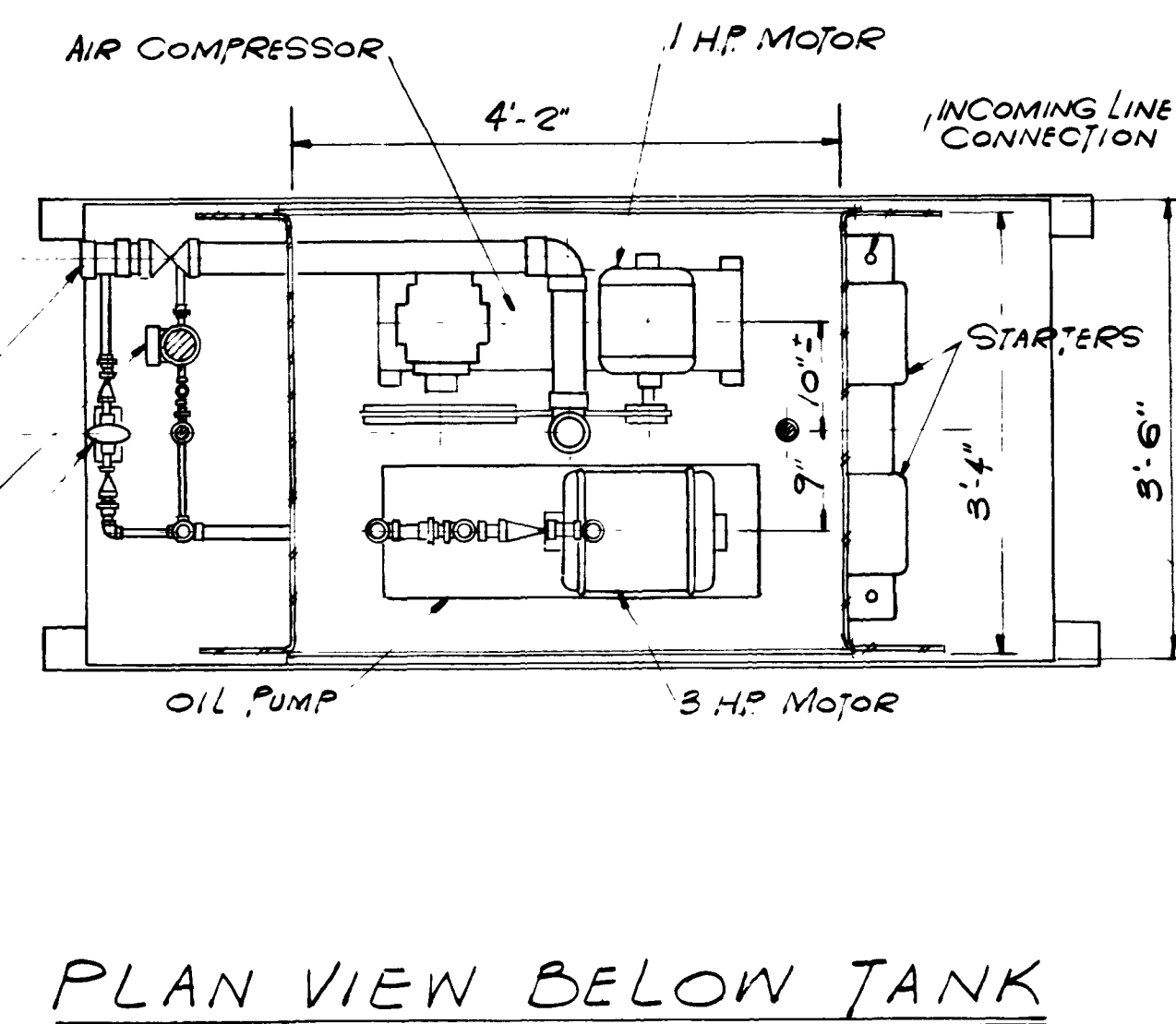
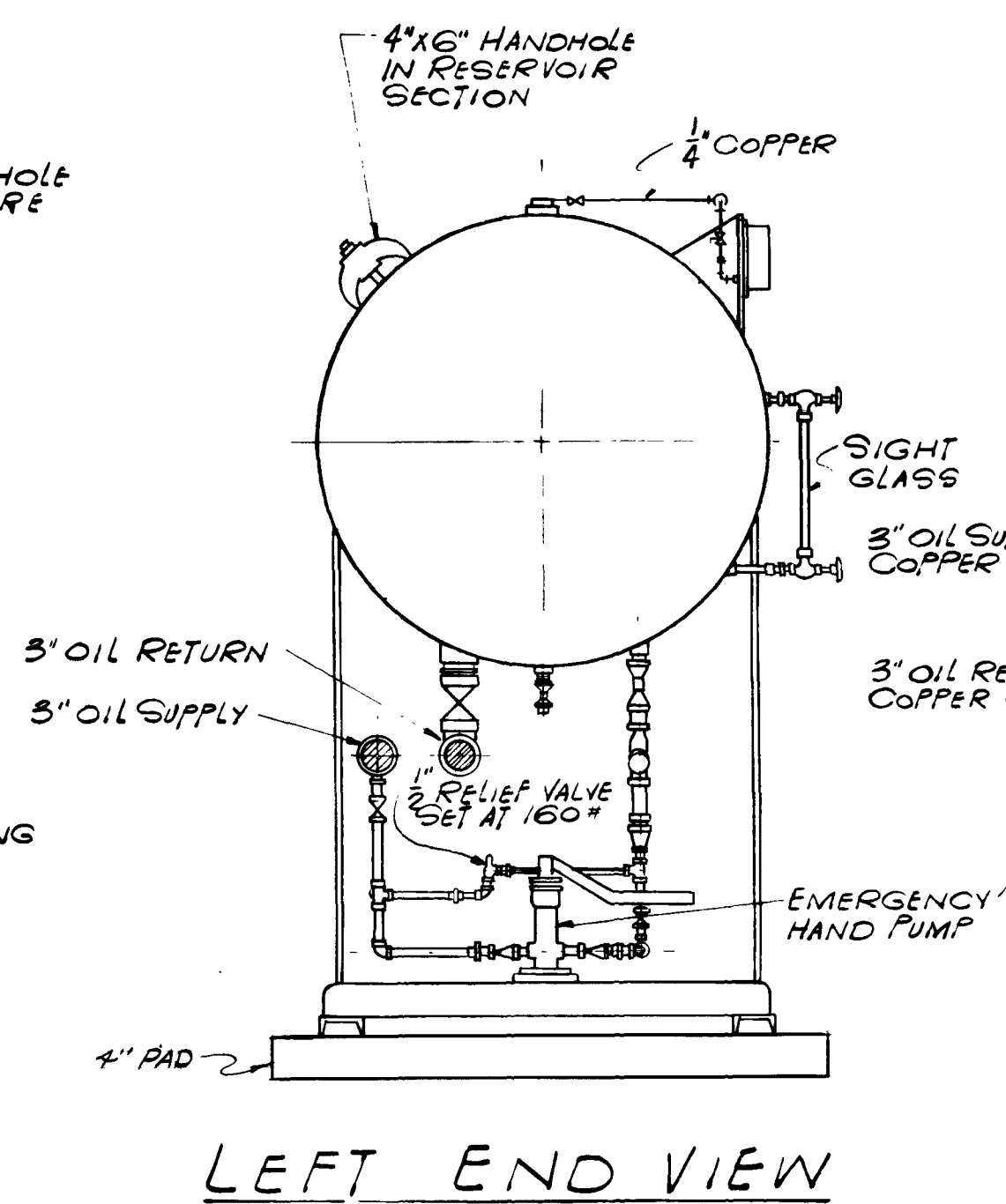
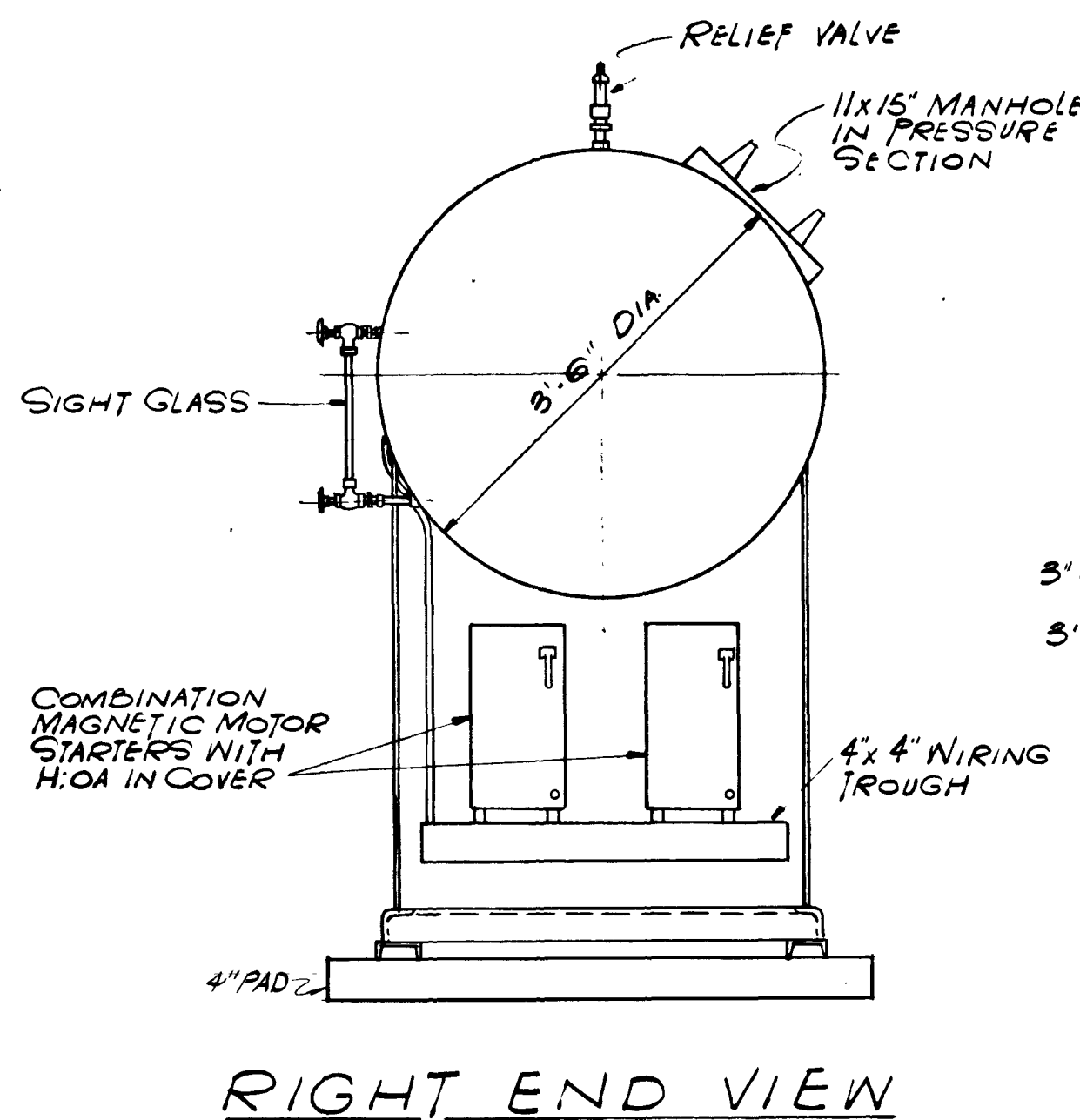
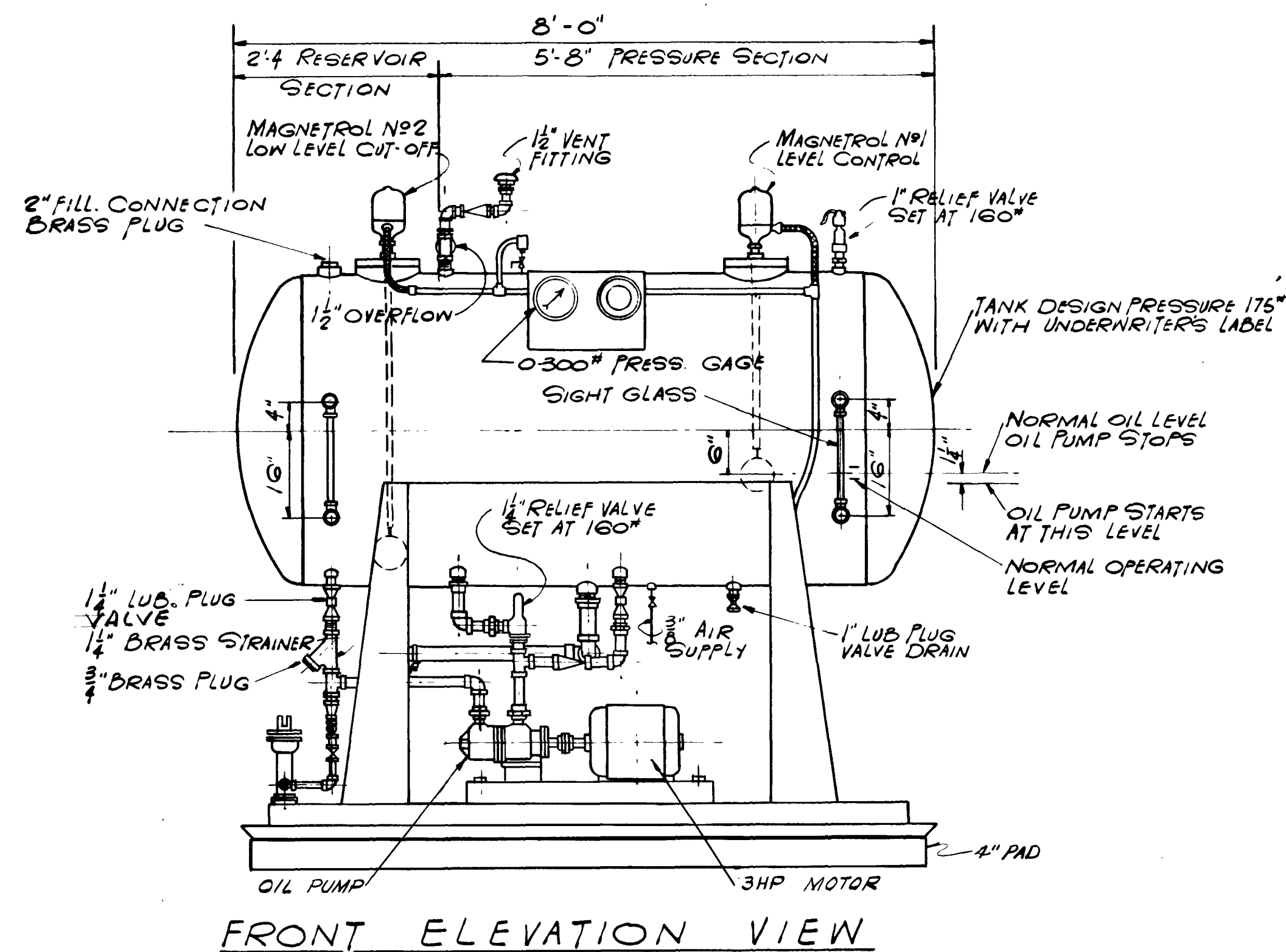
NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
1	REVISIONS							
2								
3								
4								
5								
6								
7								
8								
9								
10								

SUBMITTED BY: <i>Bill E. Pate</i>	APPROVED BY: <i>W. H. Hight</i>
REG. ENGR. FLA. NO. 4921 DATE 10/72	REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.	WATER AND SEWER DIVISION
RECOMMENDED BY: <i>W. H. Hight</i>	AUTHORIZED BY: <i>W. H. Hight</i>
REG. ENGR. FLA. NO. 9265 DATE 2/73	REG. ENGR. FLA. NO. 4921 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.	CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

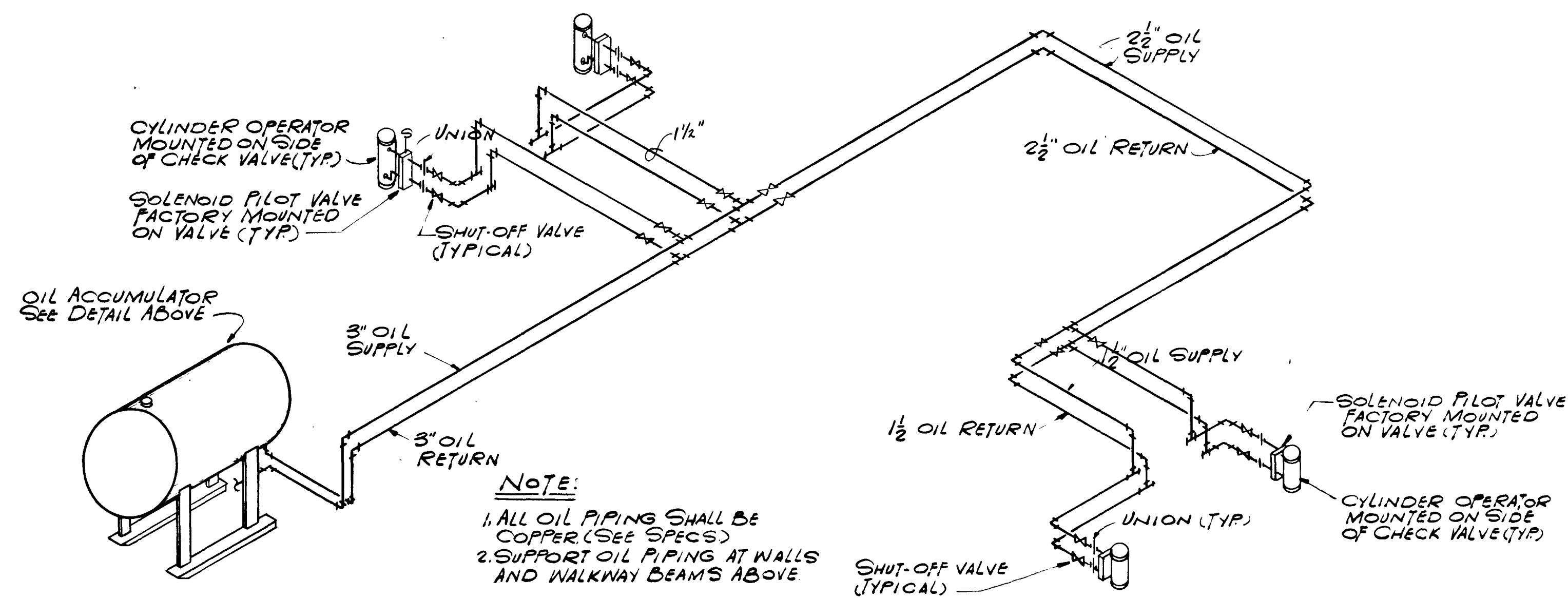
FLOOD & ASSOCIATES, INC.	
DESIGN CONSULTANT	
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT	
DETAILED BY: MLN	SCALE AS SHOWN
CHECKED BY: RVT	DATE AUGUST 1972
7205-3	

SCHEMATICS AND TYPICAL DETAILS			
CONTR. NO. JS-23	PROJ. NO. OII-3	SHEET NO. 14 OF 42	

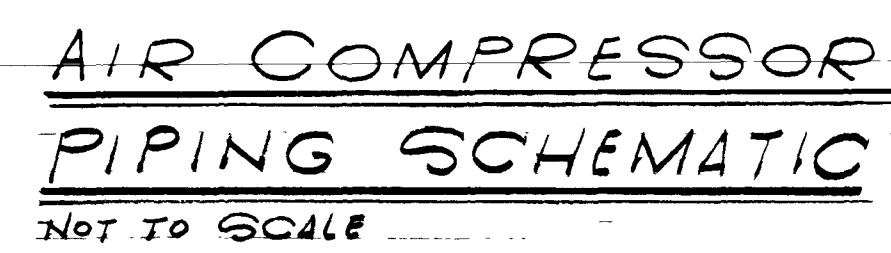


DETAIL OIL ACCUMULATOR SCALE: $\frac{3}{4}$ " = 1'-0"

M-12
M-4 A



M-12
B



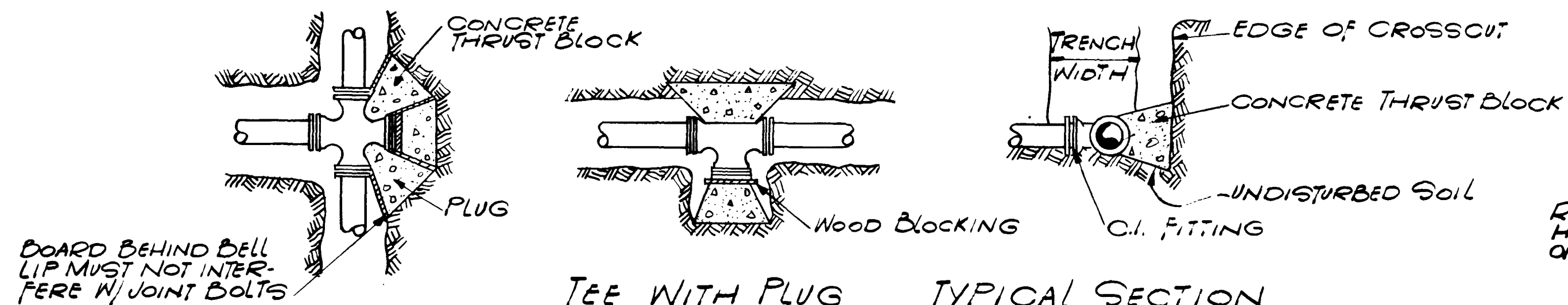
M-12
M-12 C



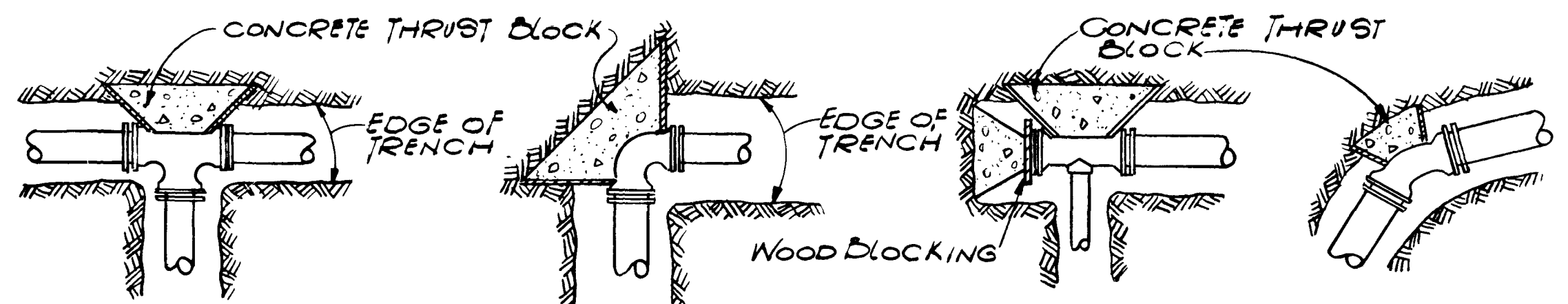
M-12
M-12 D

AS BUILT M-12
APRIL 1977

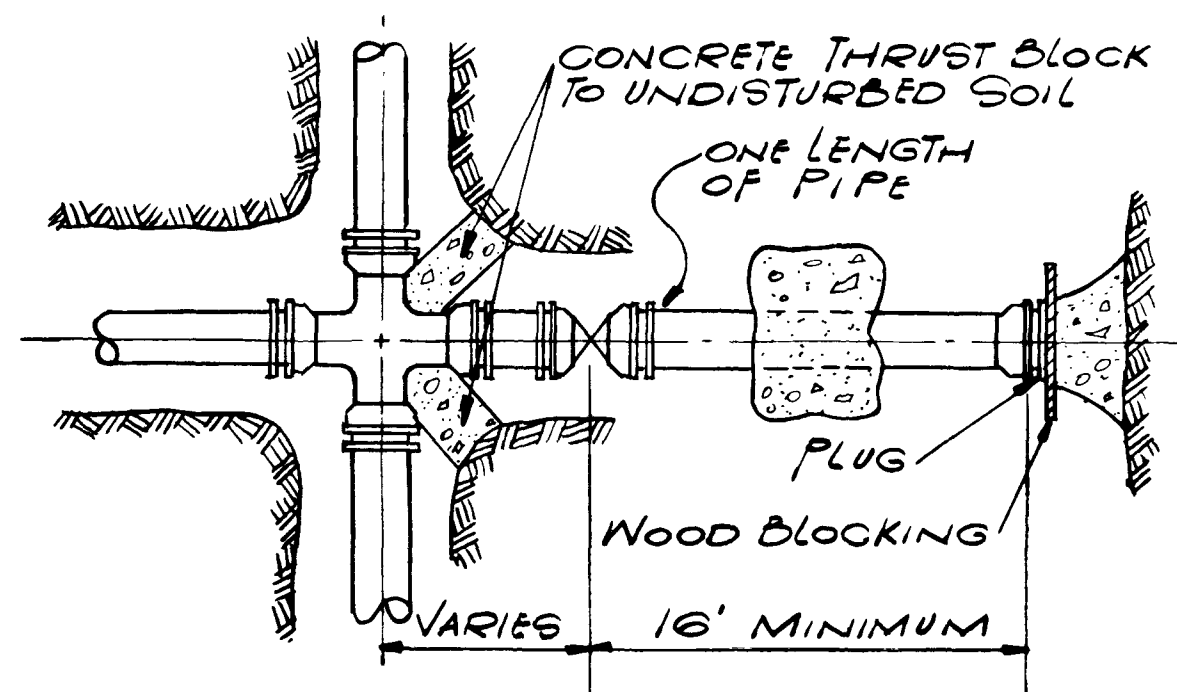
										SUBMITTED BY <u>Brian L. Brown</u> REG. ENGR. FLA. NO. <u>4921</u> DATE <u>10/72</u> FLOOD & ASSOCIATES, INC.										APPROVED BY <u>J. H. H. Jett</u> REG. ENGR. FLA. NO. <u>9270</u> DATE <u>2/73</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM PHASE 2 HOGANS CREEK PUMPING STATION										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT DETAILED BY <u>MLN</u> SCALE <u>AS SHOWN</u> DATE <u>AUGUST 1972</u> CHECKED BY <u>RVT</u> 7205-3 CONTR. NO. <u>JS-23</u> PROJ. NO. <u>OII-3</u> SHEET NO. <u>15</u> OF <u>42</u>										ACCUMULATOR SYSTEM																													
NO. DESCRIPTION BY FIRM DATE S&P DATE PW DATE										APPROVAL RECOMMENDED BY <u>M. J. Jett</u> REG. ENGR. FLA. NO. <u>9663</u> DATE <u>2/73</u> SVERDRUP & PARCEL AND ASSOCIATES, INC.																																																																					
REVISIONS										SUBMITTAL										APPROVAL																																																											



CROSS WITH PLUG



1. THRUST BLOCKS SHALL BE REQUIRED AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE ALL LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL.
2. ON TEES AND BENDS, EXTEND THRUST BLOCK FULL LENGTH. PUT BOARD IN FRONT OF PLUG BEFORE POURING CONCRETE THRUST BLOCK.
3. BACKFILL SHALL CONSIST ENTIRELY OF CLEAN SAND AND ROCK FRAGMENTS. ANY MUCK ENCOUNTERED SHALL BE REPLACED WITH ACCEPTABLE BACKFILL.
4. ALL WOOD BLOCKING SHALL BE PRESSURE TREATED.
5. CONCRETE THRUST BLOCKING SHALL BE CLASS "C".



MAIN WITH PLUG & STUBOUT

THRUST BLOCK SIZING

THRUST BLOCK END AREA IN SQ. FT. SHALL BE DETERMINED BY THE FOLLOWING FORMULA:

$$A = \frac{0.785 \times D^2 \times P}{2500}$$

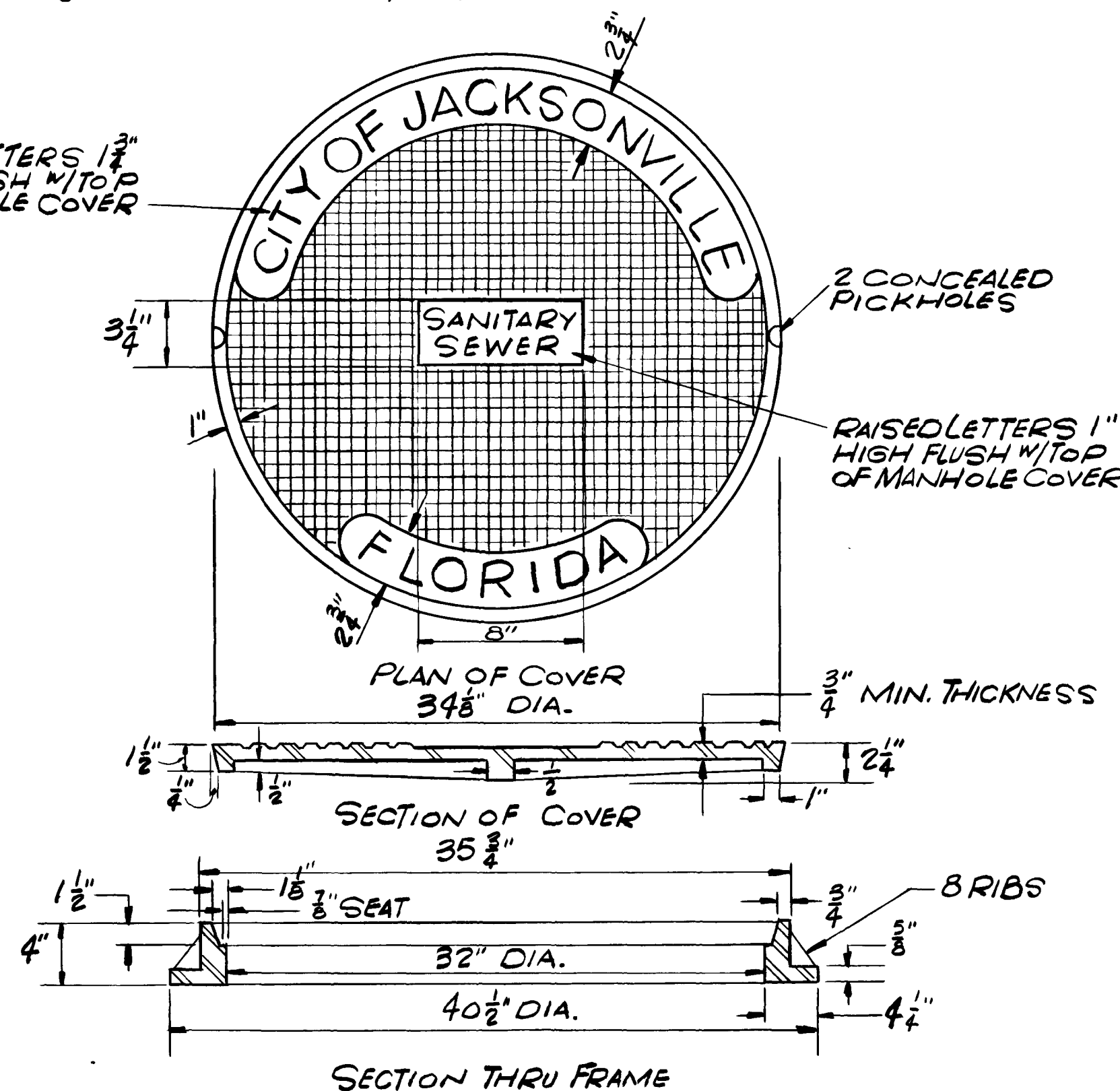
WHERE:

A = END AREA REQ'D. IN SQ. FT.
D = PIPE DIAMETER, SQUARED
P = LINE PRESSURE IN P.S.I.

0.785 = CONSTANT
2500 = SOIL BEARING VALUE.

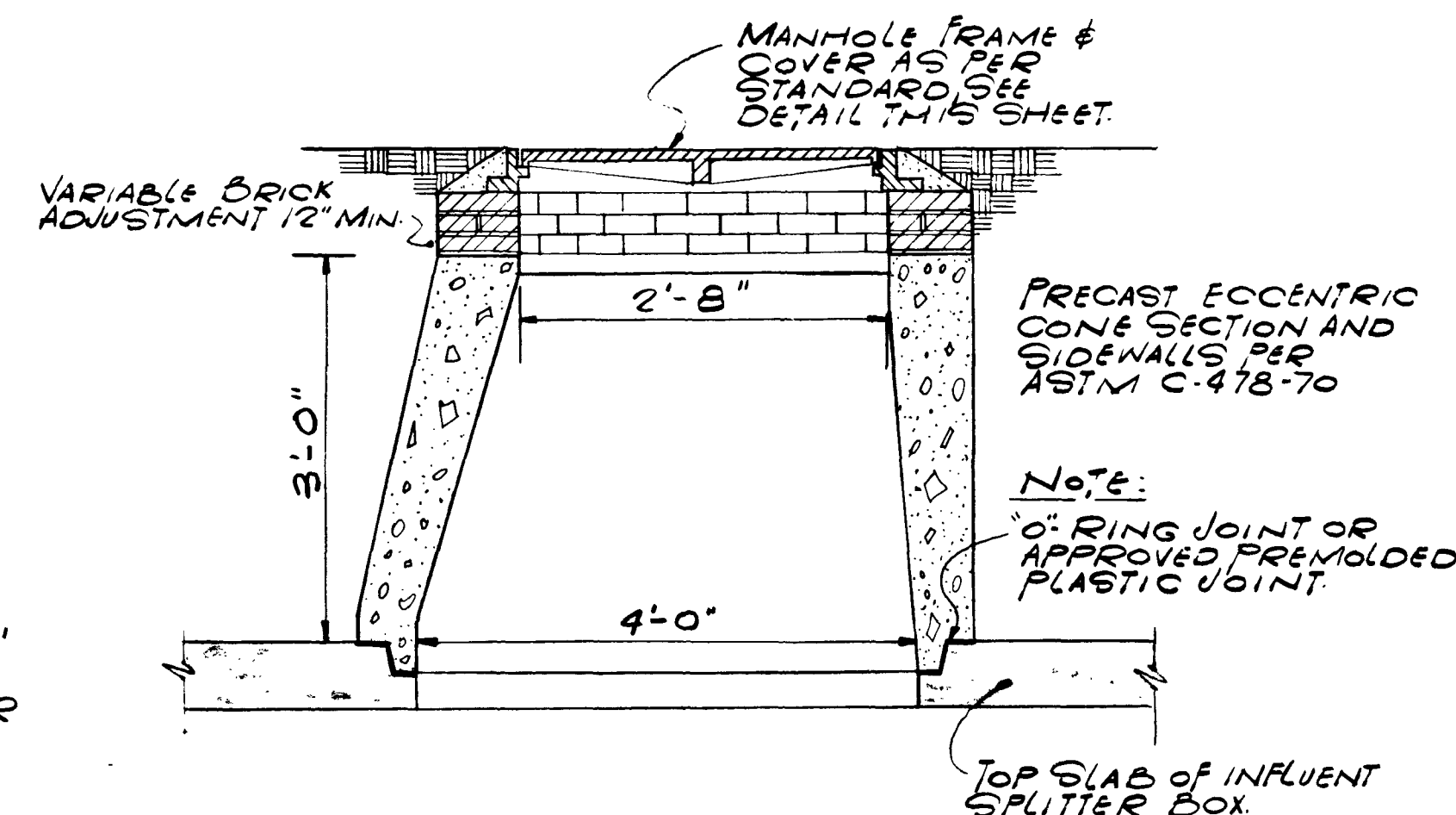
MANHOLE FRAME & COVER
CITY OF JACKSONVILLE
STANDARD DATED MAY, 1972

RAISED LETTERS 1 1/2" HIGH FLUSH W/ TOP OF MANHOLE COVER



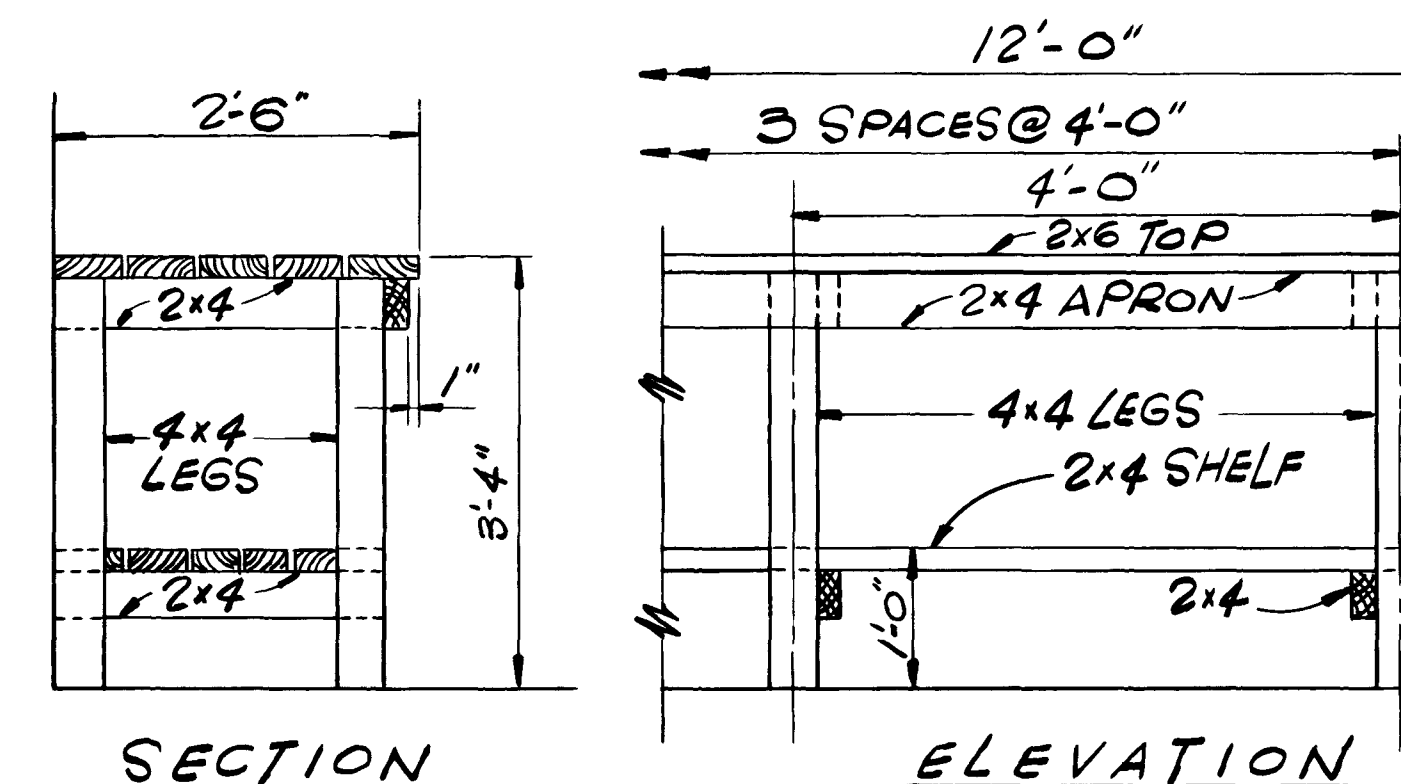
DETAIL STANDARD MANHOLE FRAME & COVER

NOT TO SCALE



PRECAST MANHOLE RISER

NOT TO SCALE



DETAIL WORK BENCH

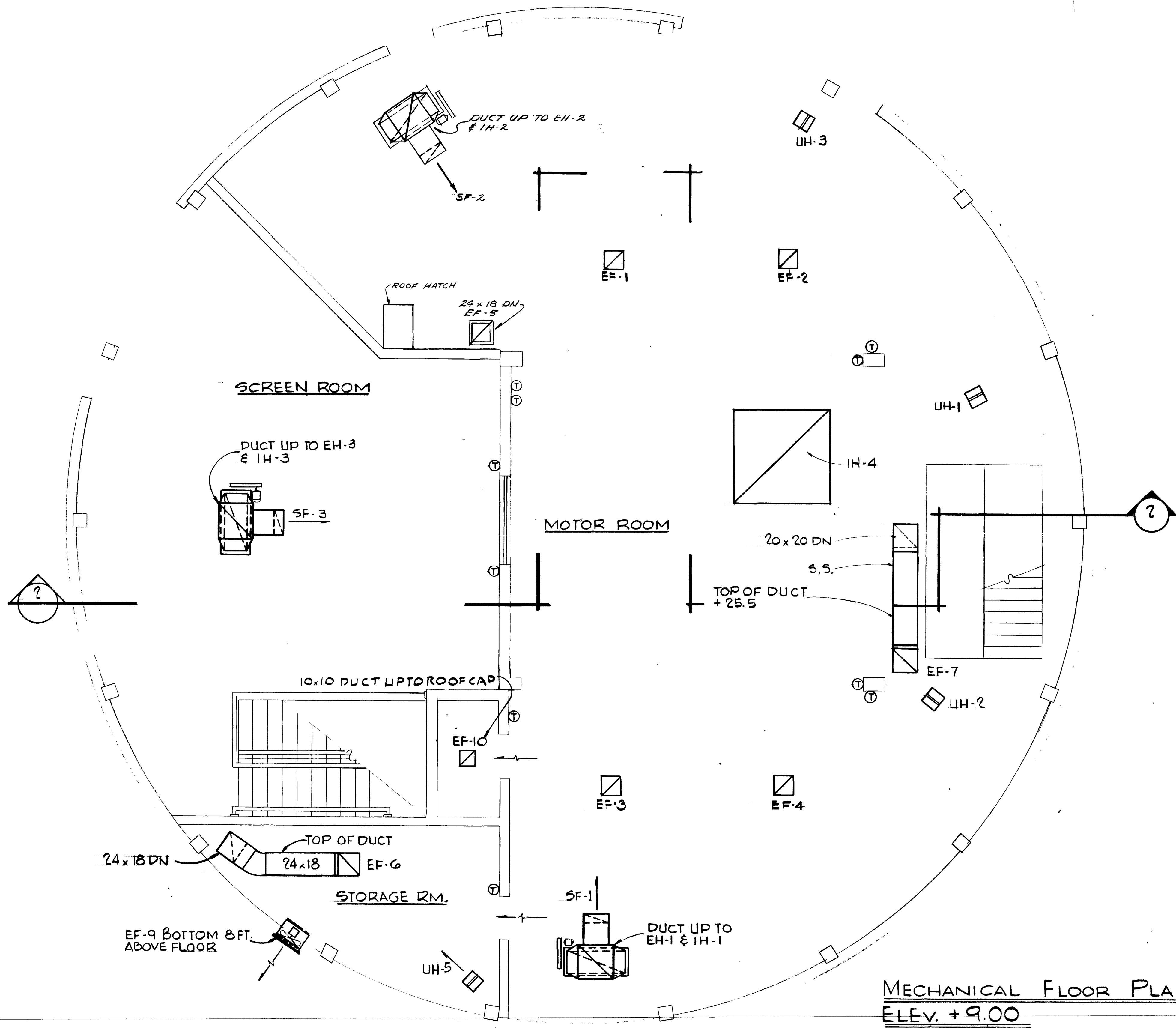
SCALE: 3/4" = 1'-0"

AS BUILT
APRIL 1977

7536

SUBMITTED BY: <i>Dis & Brumant</i> REG. ENGR. FLA. NO. 1021 DATE 10/72 FLOOD & ASSOCIATES, INC.										APPROVED BY: <i>Joe H. Hunt</i> REG. ENGR. FLA. NO. 2170 DATE 2/73 WATER AND SEWER DIVISION										CITY OF JACKSONVILLE, FLORIDA										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT										STANDARD DETAILS									
APPROVAL RECOMMENDED BY: <i>W. L. L. L.</i> REG. ENGR. FLA. NO. 2663 DATE 2/73 SVERDRUP & PARCEL AND ASSOCIATES, INC.										AUTHORIZED BY: <i>W. L. L. L.</i> REG. ENGR. FLA. NO. 2663 DATE 2/73 OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT										DETAILED BY: <i>MLN</i> SCALE AS SHOWN DATE AUGUST 1972										CONTR. NO. JS-23 PROJ. NO. 011-3 SHEET NO. 16 OF 42									
NO. DESCRIPTION BY FIRM DATE S&P DATE PW DATE										REVISIONS SUBMITTAL APPROVAL										CITY OF JACKSONVILLE, FLORIDA										HOGANS CREEK PUMPING STATION										7205-3									

M-13



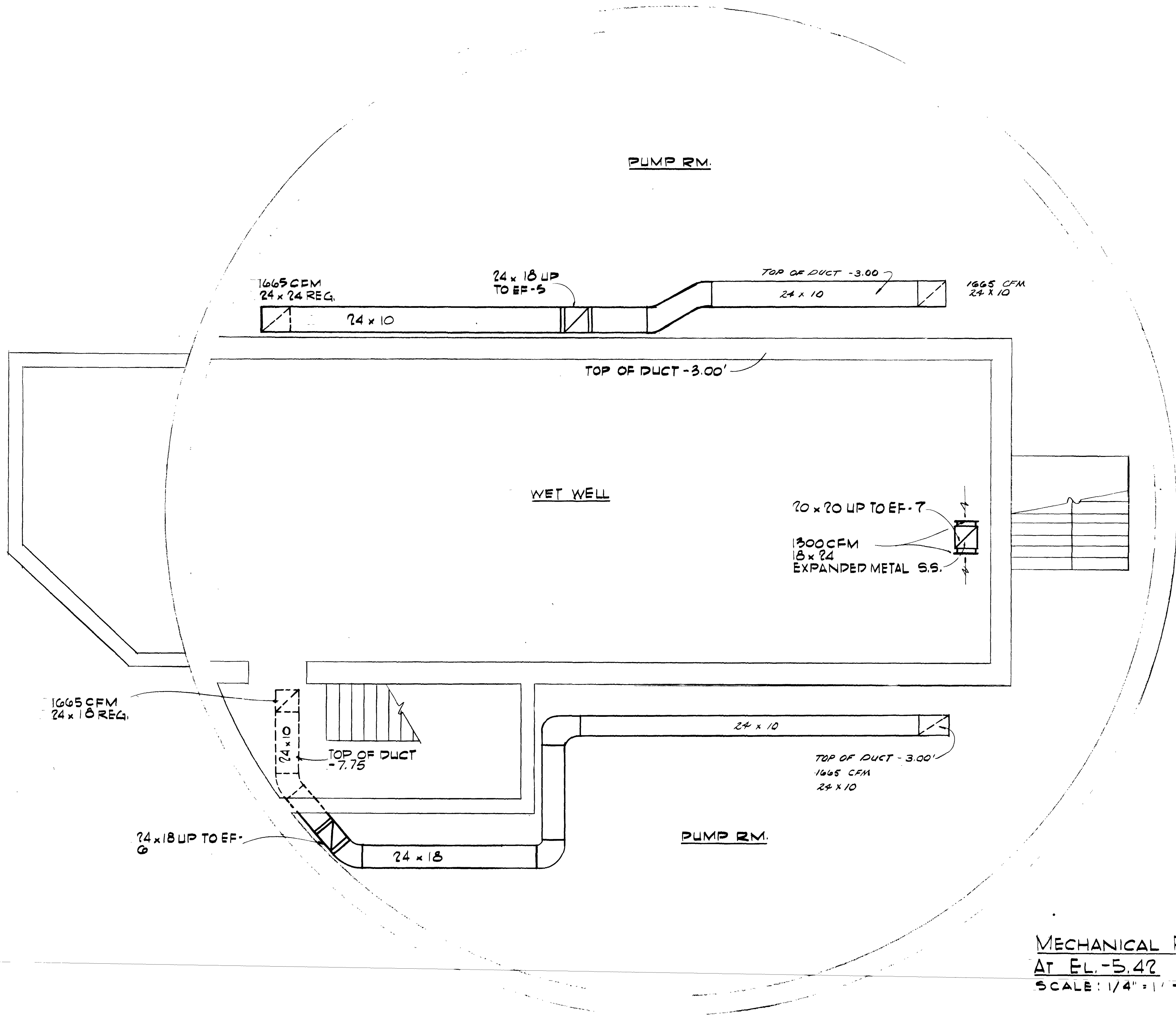
AS BUILT
APRIL 1977

**MECHANICAL FLOOR PLAN AT
ELEV. +9.00**
SCALE: 1/4" = 1'-0"

7537

M-14

										SUBMITTED BY: <u>Don L. Sverdrup</u> REG. ENGR. FLA. NO. <u>4921</u> DATE <u>10/72</u> FLOOD & ASSOCIATES, INC.										APPROVED BY: <u>[Signature]</u> REG. ENGR. FLA. NO. <u>4270</u> DATE <u>2/73</u> WATER AND SEWER DIVISION AUTHORIZED BY: <u>[Signature]</u> REG. ENGR. FLA. NO. <u>4245</u> DATE <u>2/72</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM PHASE 2 HOGANS CREEK PUMPING STATION										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT										HEATING AND VENTILATION FLOOR PLAN AT ELEV. 9.00									
NO. DESCRIPTION BY FIRM DATE S&P DATE PW DATE										RECOMMENDED BY: <u>[Signature]</u> REG. ENGR. FLA. NO. <u>9663</u> DATE <u>2/73</u> SVERDRUP & PARCEL AND ASSOCIATES, INC.																				DETAILED BY: <u>LE</u> SCALE <u>AS SHOWN</u> DATE <u>AUGUST 1972</u>										CONTR. NO. <u>JS-23</u>																			
REVISIONS										SUBMITTAL APPROVAL																				CHECKED BY: <u>RM</u> 7205-3										PROJ. NO. <u>011-3</u> SHEET NO. <u>17</u> OF <u>42</u>																			

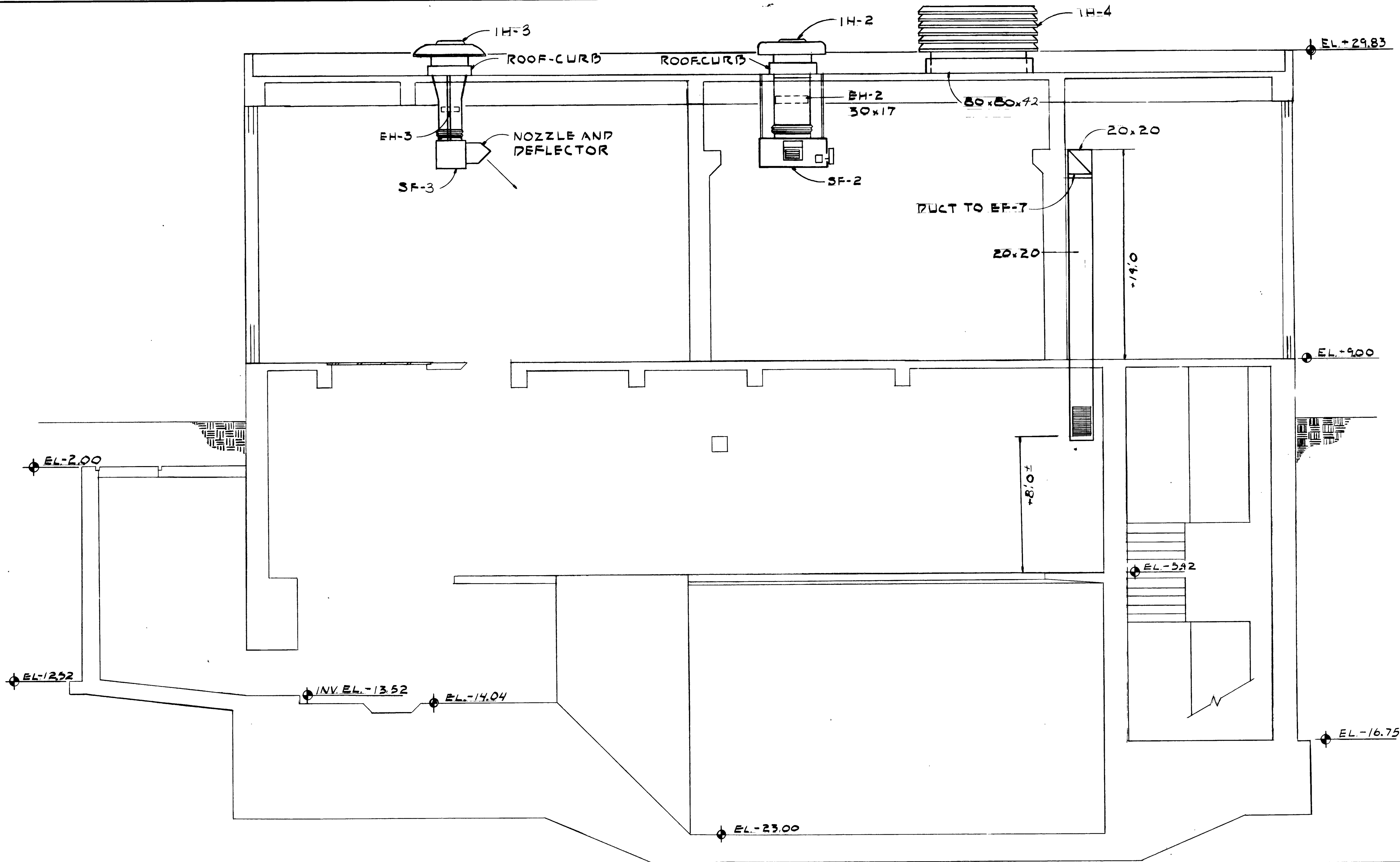


AS BUILT
APRIL 1977

7538

M-15

										SUBMITTED BY: <i>Bill J. Poremba</i> REG. ENGR. FLA. NO. 4921 DATE 10/72 FLOOD & ASSOCIATES, INC.		APPROVED BY: <i>H. Hyatt</i> REG. ENGR. FLA. NO. 4270 DATE 2/73 WATER AND SEWER DIVISION AUTHORIZED BY: <i>[Signature]</i> REG. ENGR. FLA. NO. 6547 DATE 2/73 OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA		CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM PHASE 2 HOGANS CREEK PUMPING STATION		FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT DETAILED BY: <u>LE</u> SCALE <u>AS SHOWN</u> DATE <u>AUGUST 1972</u> CHECKED BY: <u>RM</u> 7205-3			HEATING AND VENTILATION FLOOR PLAN AT ELEV. -5.42 CONTR. NO. <u>JS-23</u> PROJ. NO. <u>OII-3</u> SHEET NO. <u>18</u> OF <u>42</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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OUTSIDE AIR INTAKE HOOD SCHEDULE						
NO.	LOCATION	CFM	MANF.	MODEL	S.P.	REMARKS
IH-1	MOTOR RM.	3330	PENN	DRR	.06	BRO. SRN. SELF FLASH. CURB
IH-2	"	"	"	"	.06	" " " "
IH-3	SCREEN RM.	2400	"	DRC	.09	" " " "
IH-4	MOTOR RM.	30,000	"	PENTHOUSE	.25	" " " "

ELECTRIC DUCT HEATER SCHEDULE					
HEATER NO.	SERVES	STEPS	KW	AC UNIT	REMARKS
EH-1	MOTOR RM.	3	30	SF-1	
EH-2	MOTOR RM.	3	30	SF-2	

ELECTRIC UNIT HEATER SCHEDULE				
UNIT NO.	KW	MANF.	MODEL	REMARKS
UH-1	10	MARKEL	P3E1510CA	
UH-2	10	"	"	
UH-3	5	"	P3E1505CA	
UH-5		"	P3E1505CA	

AS BUILT
APRIL 1977

SECTION 2-2
SCALE: 1/4" = 1'-0"

FAN SCHEDULE													
FAN No.	LOCATION	SERVES	FAN TYPE	CFM	EXT. S.P. IN. W.G.	MAX. RPM.	FAN HP	DRIVE	INTERLOCK	MANF.	TYPE	MODEL NO.	REMARKS
SF-1	MOTOR RM.	MOTOR RM.	CENTRIFUGAL	3330	0.5	784	1	V-BELT	EF-6	TRANE	CABINET	TG	ARR. U-VIV FLAT FILTER NO. 3 NOZZLE NO. 14 DEFLECTOR
SF-2	MOTOR RM.	MOTOR RM.	"	"	0.5	"	"	"	EF-5	"	"	"	" " " " " " " "
SF-3	SCREEN RM.	SCREEN RM.	"	2400	0.5	691	3/4	"	EF-7	"	"	"	" " " " " " " "
EF-1	MOTOR RM.	MOTOR RM.	"	7,000	0.125	875	1 1/2	"		COOL AIR	PRV	JB24150	BIRD SCREEN, BACKDRAFT DAMPER, DISC SC., SELF FLASHING CURB
EF-2	MOTOR RM.	MOTOR RM.	"	"	0.125	"	"	"		"	"	"	" " " " " " " "
EF-3	MOTOR RM.	MOTOR RM.	"	"	0.125	"	"	"		"	"	"	" " " " " " " "
EF-4	MOTOR RM.	MOTOR RM.	"	"	0.125	"	"	"		"	"	"	" " " " " " " "
EF-5	MOTOR RM.	PUMP RM.	"	3330	0.25	535	1/2	"	SF-2	PENN	PRV	LB242	" " " " " " " "
EF-6	STORAGE RM.	PUMP RM.	"	3330	0.25	770	1/2	"	SF-1	"	PRV	CB051	" " " " " " " "
EF-7	MOTOR RM.	WET WELL	"	2600	0.25	790	1/2	"	SF-3	"	PRV	CB-051	" " " " " " " "
										COOK	WALL	12P/50	AXIAL-PACK ASSEMBLY
EF-9	STORAGE RM.	STORAGE RM.	"	525	0.0	1050	1/40	"				12P10	" " " " " " " "
EF-10	WASH RM.	WASHROOM	CENTRIFUGAL	50	0.1	"	1/25	"		PENN	ZEPHYR	Z-6	10 FR ROOF CAP

NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
	REVISIONS							

SUBMITTED BY: <i>D. L. Pugh</i>	APPROVED BY: <i>[Signature]</i>
REG. ENGR. FLA. NO. 4821 DATE 10/12	REG. ENGR. FLA. NO. 4821 DATE 2/78
FLOOD & ASSOCIATES, INC.	WATER AND SEWER DIVISION
RECOMMENDED BY: <i>[Signature]</i>	AUTHORIZED BY: <i>[Signature]</i>
REG. ENGR. FLA. NO. 7663 DATE 2/73	REG. ENGR. FLA. NO. 4842 DATE 2/72
SVERDRUP & PARCEL AND ASSOCIATES, INC.	CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA	
SEWERAGE IMPROVEMENT PROGRAM	
PHASE 2	
HOGANS CREEK PUMPING STATION	

FLOOD & ASSOCIATES, INC.	
DESIGN CONSULTANT	
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT	
DETAILED BY: LE	SCALE AS SHOWN
CHECKED BY: RM	7205-3
DATE AUGUST 1972	

HEATING AND VENTILATION SCHEDULES AND SECTION	
CONTR. NO. JS-23	PROJ. NO. 011-3
SHEET NO. 19 OF 42	

M-16

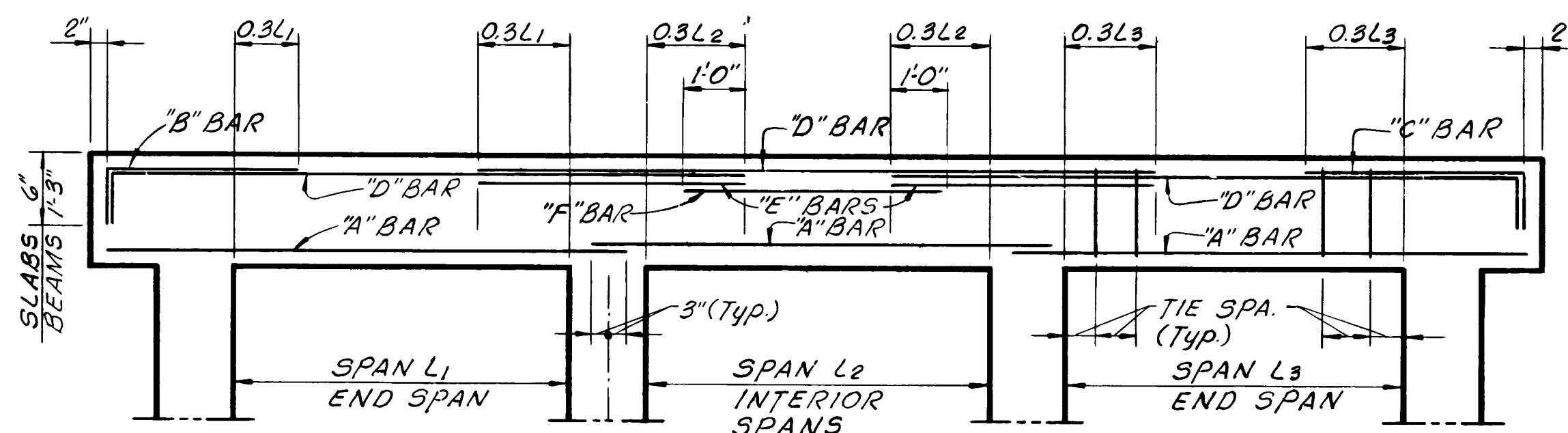
(ALL DESIGN PER "CITY OF JACKSONVILLE, FLORIDA"
BUILDING CODE, EXCEPT AS NOTED.)

1. LIVE LOADS:
 ROOF-----20#/SQ.FT.
 FLOORS-----100#/SQ.FT.
 CATWALKS-----75#/SQ.FT.
2. ALLOWABLE UNIT STRESSES:
 CONCRETE (DESIGN PER CURRENT EDITION ACI.)
 : f'c = AS SPECIFIED.
 STRUCTURAL STEEL (DESIGN PER CURRENT EDITION
 A.I.S.C.)
 SOIL BEARING DESIGN MAXIMUM)--2,000#/SQ.FT.

1. CONCRETE FOR SIDEWALKS & FILL SHALL BE CLASS "C". ALL OTHERS SHALL BE CLASS "A". SEE SPECIFICATIONS FOR MIX DESIGN STRENGTH.
2. UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:

FOOTINGS-----	3"
SURFACES CONTACTING LIQUID-----	2"
COLUMNS & PEDESTALS (OVER VERT. REINF.)-----	2"
WALLS-----	2"
SLABS-----	3/4"
BEAMS (OVER MAIN REINF.)-----	1 1/2"
ALL CONC. POURED DIRECTLY ON GROUND----	3"
3. ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF THE CONCRETE. ACCESSORIES TO HAVE PRIOR APPROVAL.
4. SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE.):

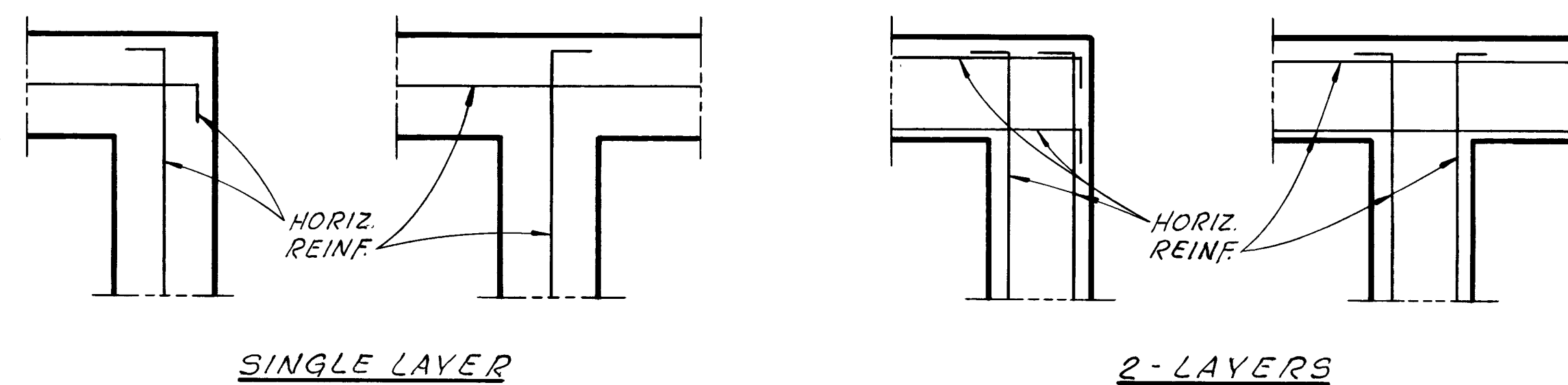
TEMPERATURE REINF.-----	12"
ALL OTHER-----	24 BAR DIAMETERS.
5. IN TWO-WAY SLABS PLACE SHORT SPAN BARS IN OUTER LAYER.
6. TERMINATE ALL DISCONTINUOUS TOP BARS WITH A STD. 90° HOOK.
7. MOISTURE BARRIER UNDERLAYMENT TO BE POLYETHYLENE SHEETS (SEE SPECIFICATIONS.)
8. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS NOT DETAILED.
9. UNLESS OTHERWISE NOTED, SPLICES IN TOP REINFORCING SHALL BE MADE AT MID-SPAN.
10. PROVIDE 1/4" PREMOULDED EXPANSION JOINT MATERIAL WHERE SLAB ON GRADE IS POURED AROUND COLUMNS & AGAINST GRADE BEAMS OR WALLS UNLESS OTHERWISE SHOWN.
11. STEEL STAIR STRINGERS SHALL BE FABRICATED AS CONTINUOUS BENT BEAMS UNLESS OTHERWISE SHOWN.
12. A LIFT HOLE SHALL BE PROVIDED IN EACH PIECE OF FLOOR PLATE.
13. SET PIPE HANDRAILS ON CONC. STAIRS IN PIPE SLEEVES UNLESS OTHERWISE SHOWN.
14. ALL PRECAST LINTELS SHALL BE REINFORCED WITH 2#4 TOP & BOT. AS A MIN. & SHALL HAVE A MIN. MASONRY END BEARING OF 8".
15. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS BEFORE PROCEEDING WITH CONSTRUCTION.
16. ALL STRUCT. OPENINGS AROUND OR AFFECTED BY MECH., ELECT. & PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCT. WORK AFFECTED.
17. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CORNERS OF BEAMS, COLUMNS, WALLS, ETC.
18. DOWELS FROM SLABS TO WALLS, SHALL MATCH WALL REINF. LAP 24 BAR DIAMETERS.
19. IT IS THE REQUIREMENT AND INTENT OF THE PLANS & SPECS. THAT THE PUMPING STATION AND OTHER SUB-GRADE STRUCTURES TO BE CONSTRUCTED WATER TIGHT TO PREVENT EITHER EXFILTRATION OF TANK CONTENTS OR INFILTRATION OF GROUNDWATER; TO THIS END EFFECT, WATERSTOPS SHALL BE USED IN ALL EXTERIOR CONST. JTS. OF TANKS, PITS & WALLS, WHETHER OR NOT SPECIFICALLY NOTED.
20. CONSTRUCTION JOINTS SHALL BE SPACED 50 FT. o.c. MAX. IN ANY DIRECTION, UNLESS OTHERWISE APPROVED BY THE ENGINEER.



BEAM AND SLAB BENDING DIAGRAM
NO SCALE

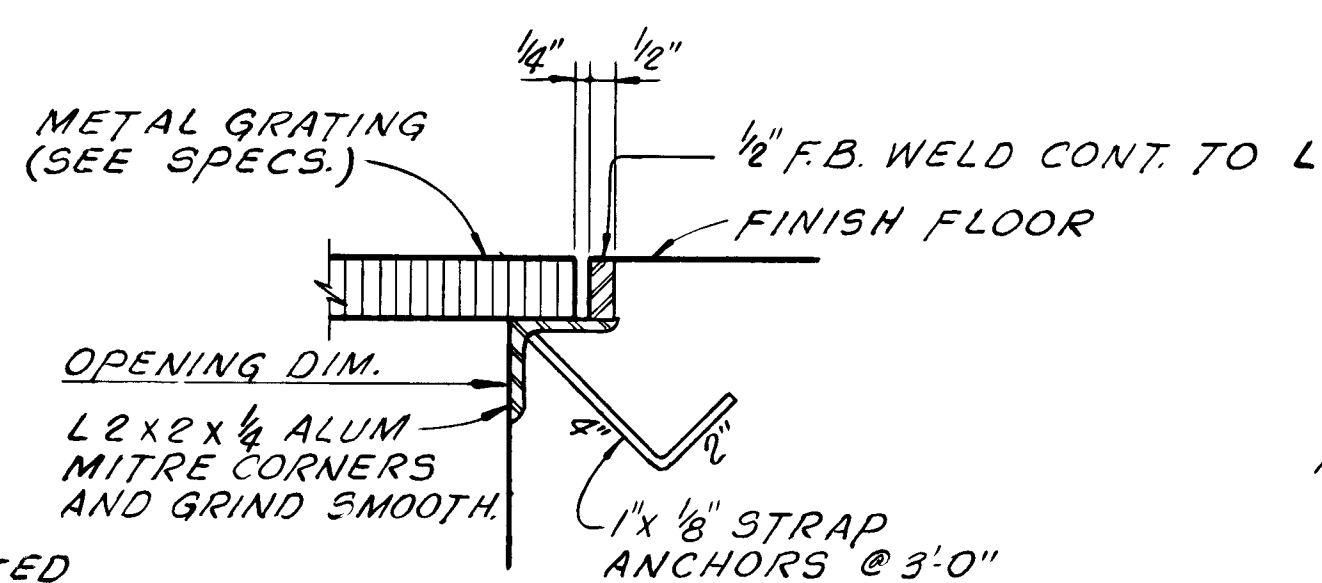
BEAM AND SLAB NOTES:

1. IN BEAM SCHEDULE, TIE SPACING +1 INDICATES A TIE PLACED NEAR END OF TOP BAR.
2. MINIMUM CLEAR HORIZ. DISTANCE BETWEEN BARS TO BE $1\frac{1}{2}$ TIMES DIAMETER BAR;
WHERE NECESSARY BARS SHALL BE PLACED IN TWO LAYERS TO MAINTAIN
THIS REQUIREMENT.
3. SEE PLANS & SECTIONS FOR ADDITIONAL REINFORCING NOT SHOWN.
4. DEPTH OF BEAM SHOWN IN SCHEDULE IS MEASURED FROM DEEPEST
DEPRESSION IN BEAM.
5. WHERE TIE PLACEMENT EXCEEDS LENGTH OF TOP BARS PROVIDE 2#3
SPACER BARS FOR SUPPORT OF FREE STANDING TIES.
6. IN BEAM SCHEDULE, WHERE BARS ARE IN TWO LAYERS: THE TOP LAYER IS
SCHEDULED FIRST; PROVIDE 1" CLEAR BETWEEN LAYERS.



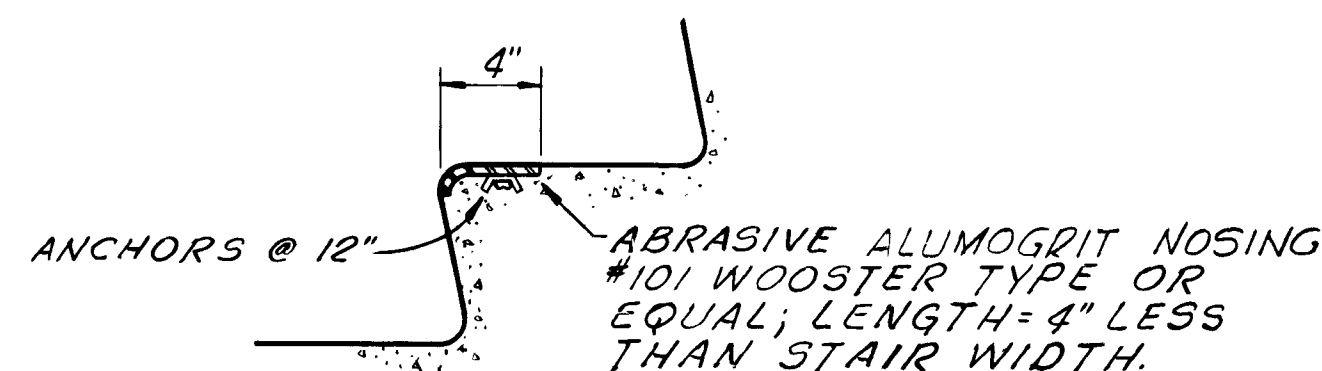
TYPICAL CONCRETE WALL CORNER DETAILS
SCALE: $\frac{3}{8}" = 1'-0"$

NOTE:
ALL HOOKS ARE STANDARD 90°

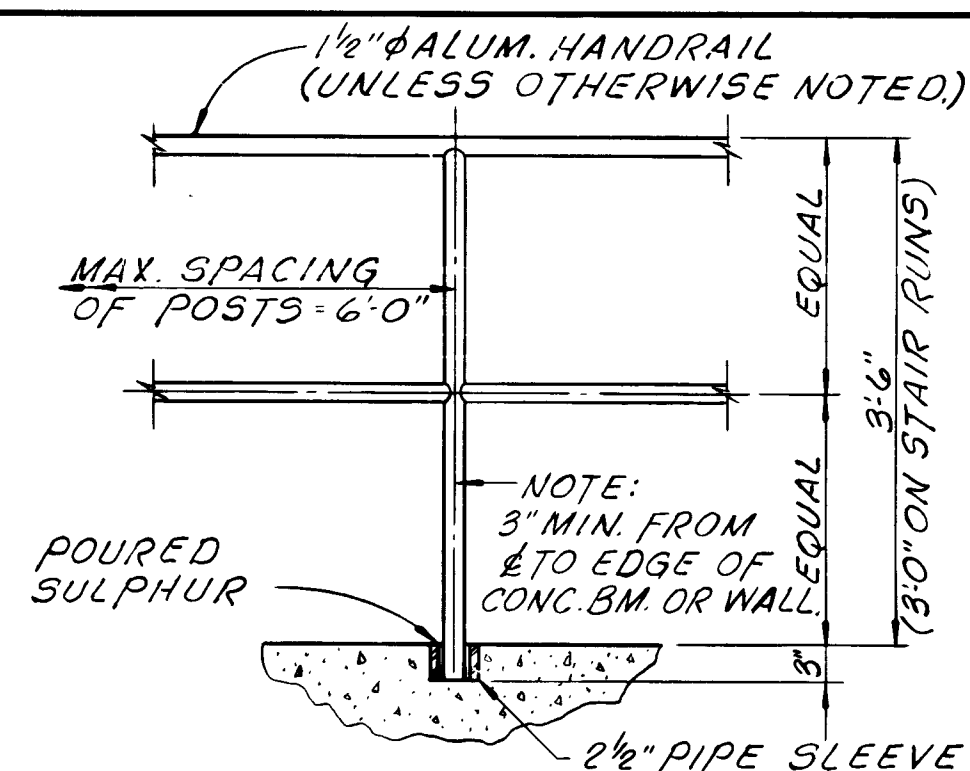


NOTE: ALL GRATING AND FRAMES ARE ALUMINUM UNLESS SPECIFICALLY SHOWN OTHERWISE.

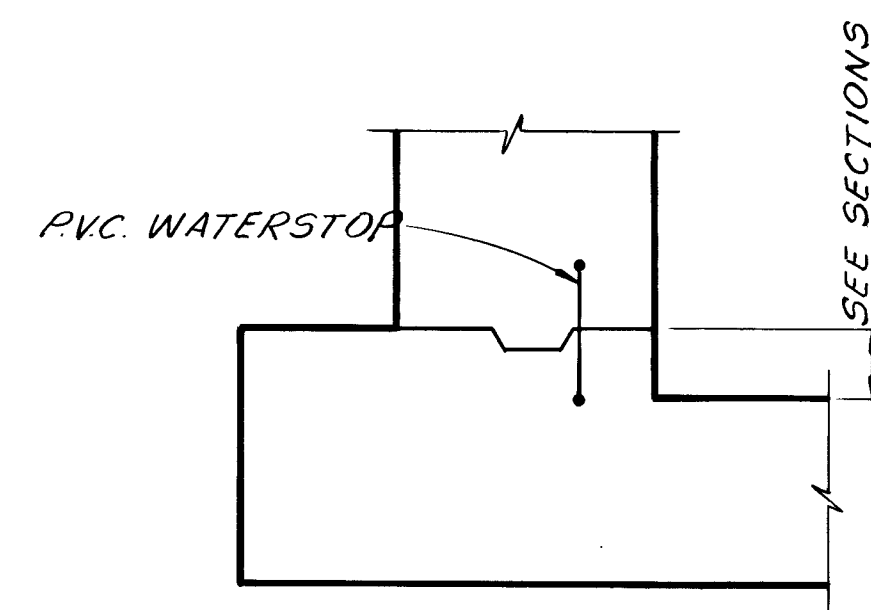
TYPICAL GRATING DETAIL
NO SCALE
(DIMENSIONS SHOWN ON DWG'S
ARE CLEAR OPENINGS)



TYPICAL DETAIL
CONCRETE STAIR NOSING
NO SCALE

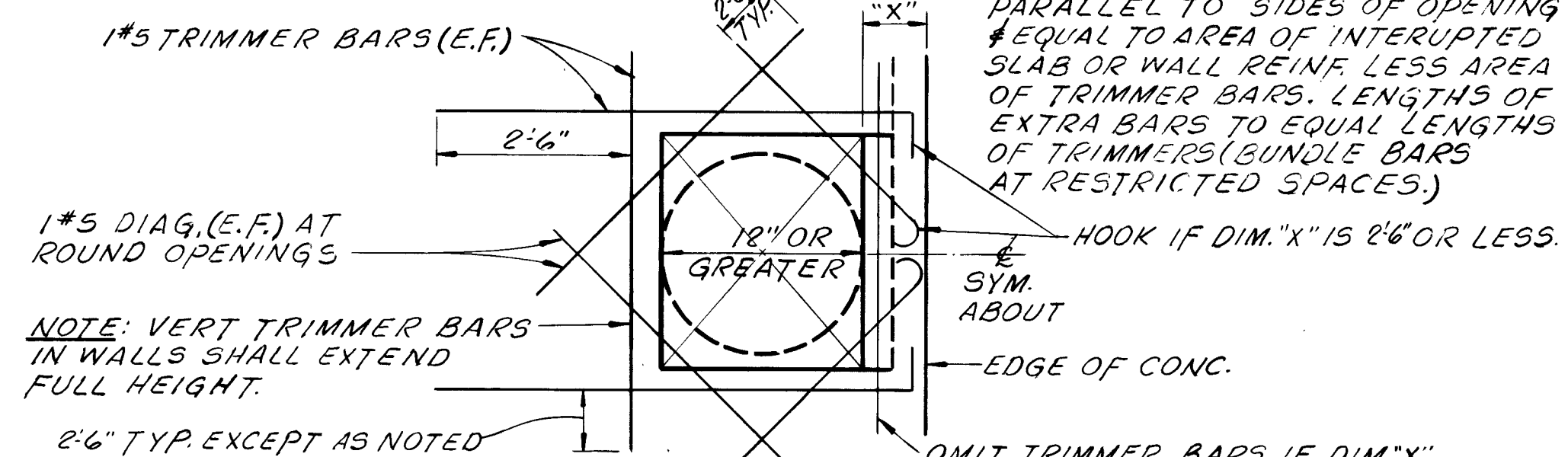


HANDRAIL DETAIL (S-1)
SCALE: $\frac{3}{4}" = 1'-0"$ A

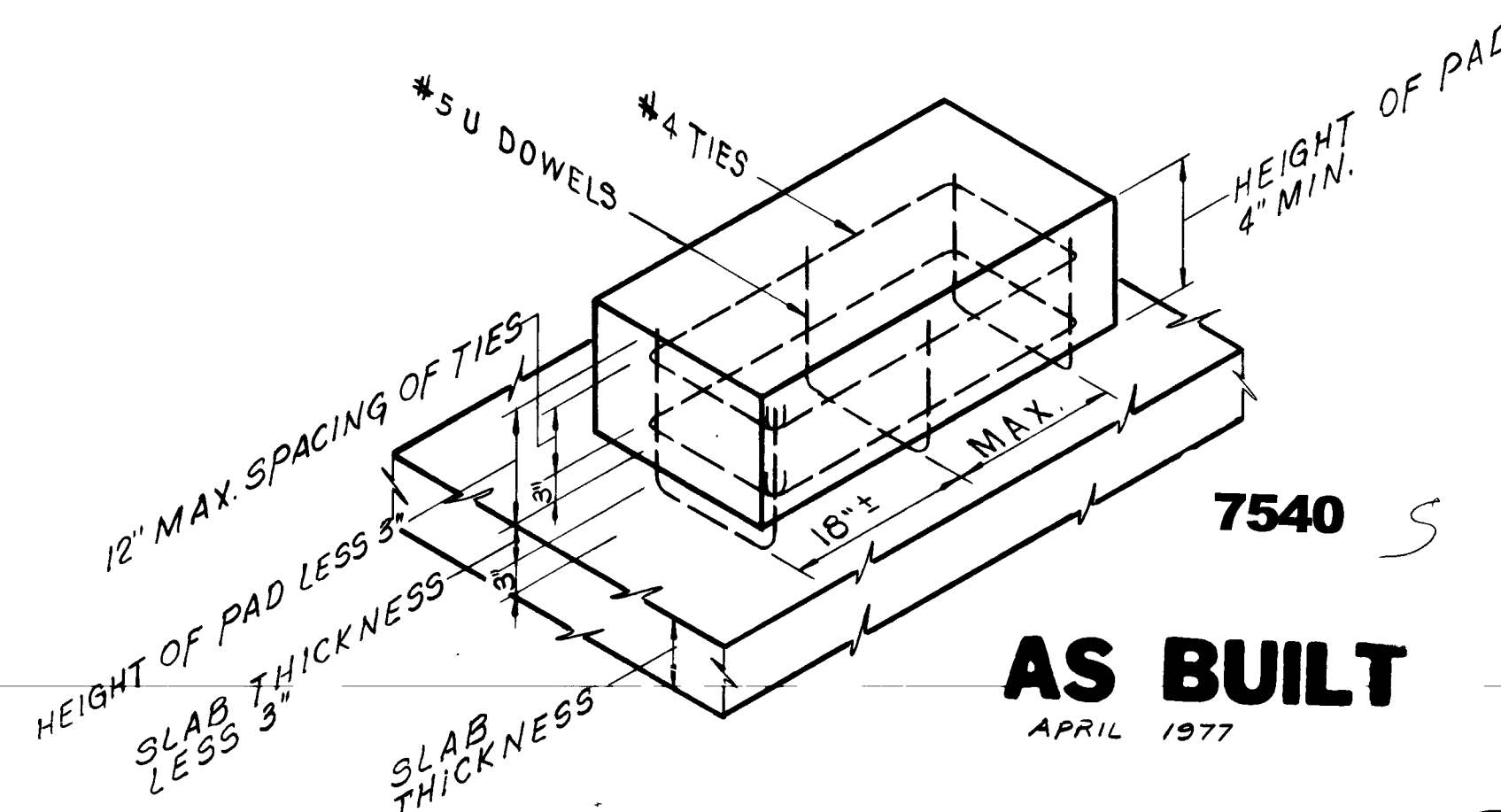


WALL & SLAB

TYPICAL JOINT DETAILS
NO SCALE



TYPICAL DETAIL~OPENING IN WALL OR SLAB
NO SCALE



TYPICAL EQUIPMENT PAD DETAIL
NO SCALE

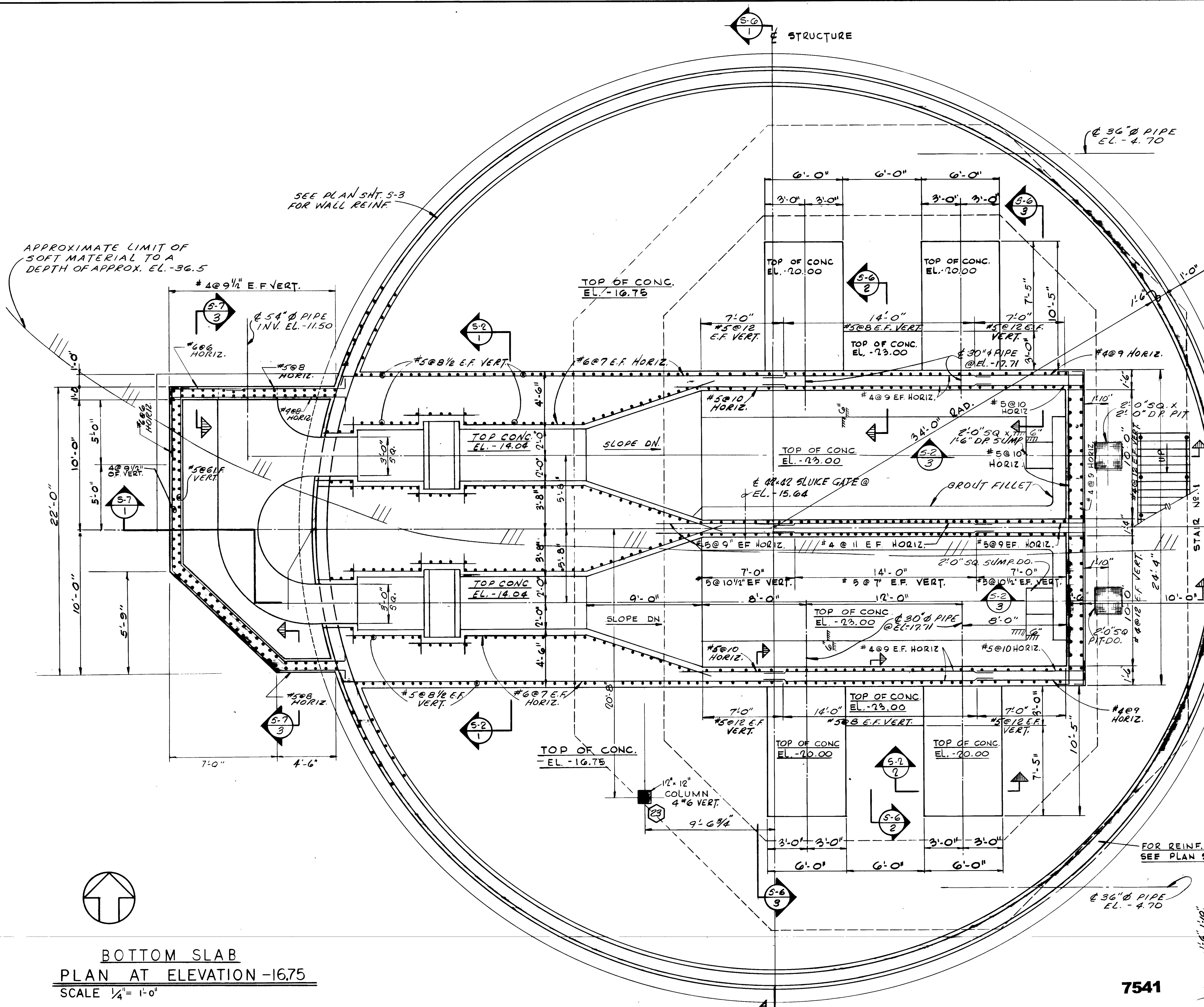
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CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

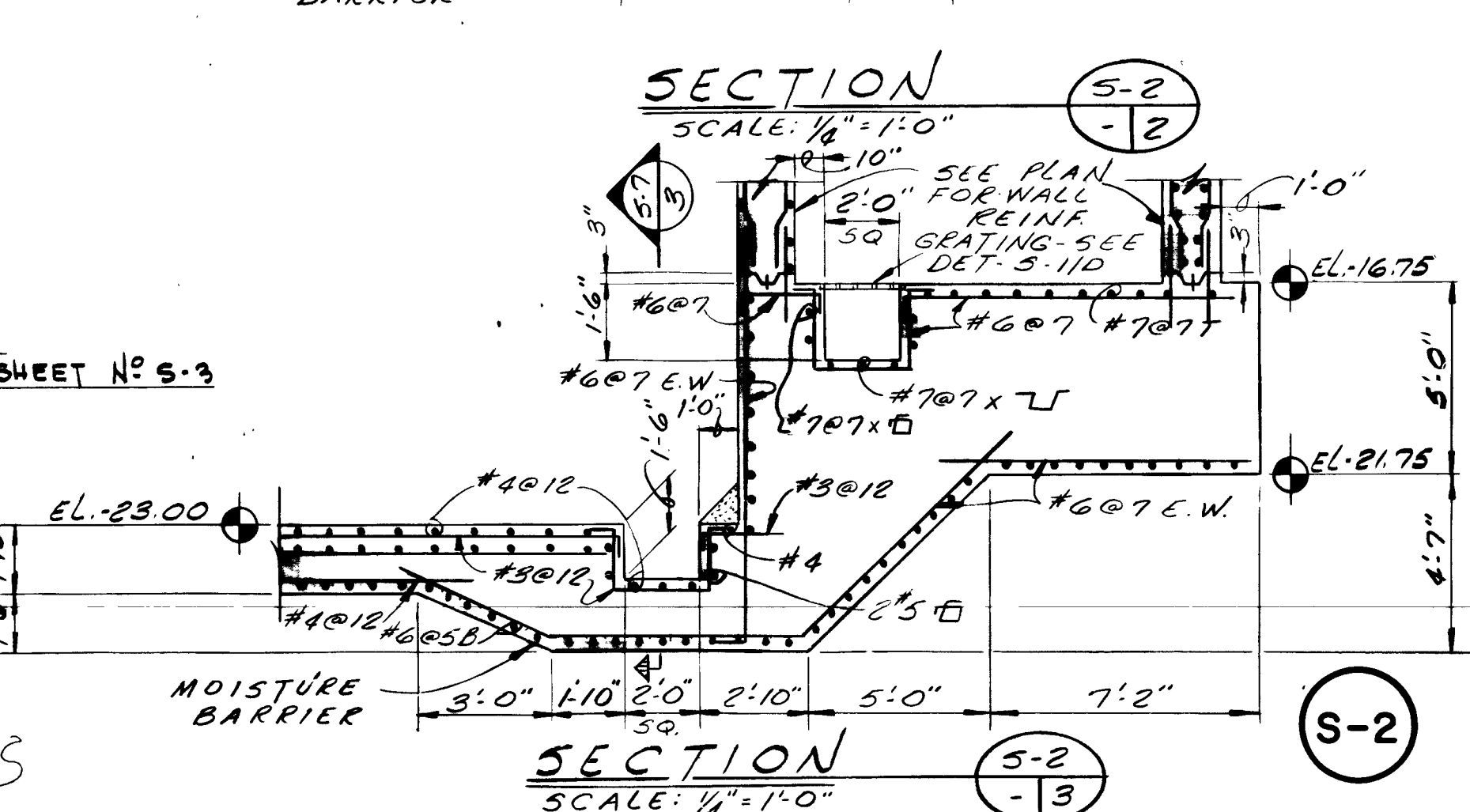
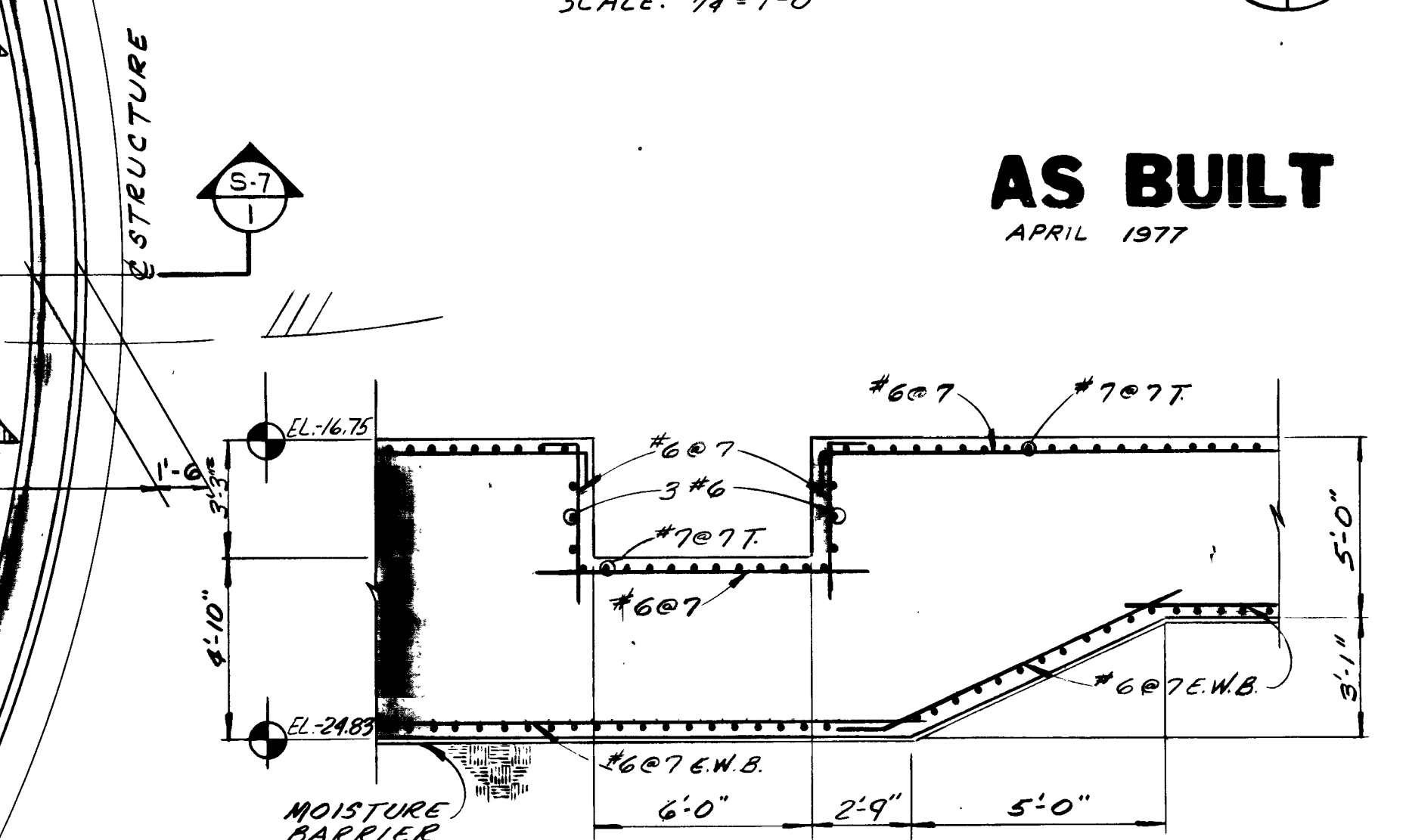
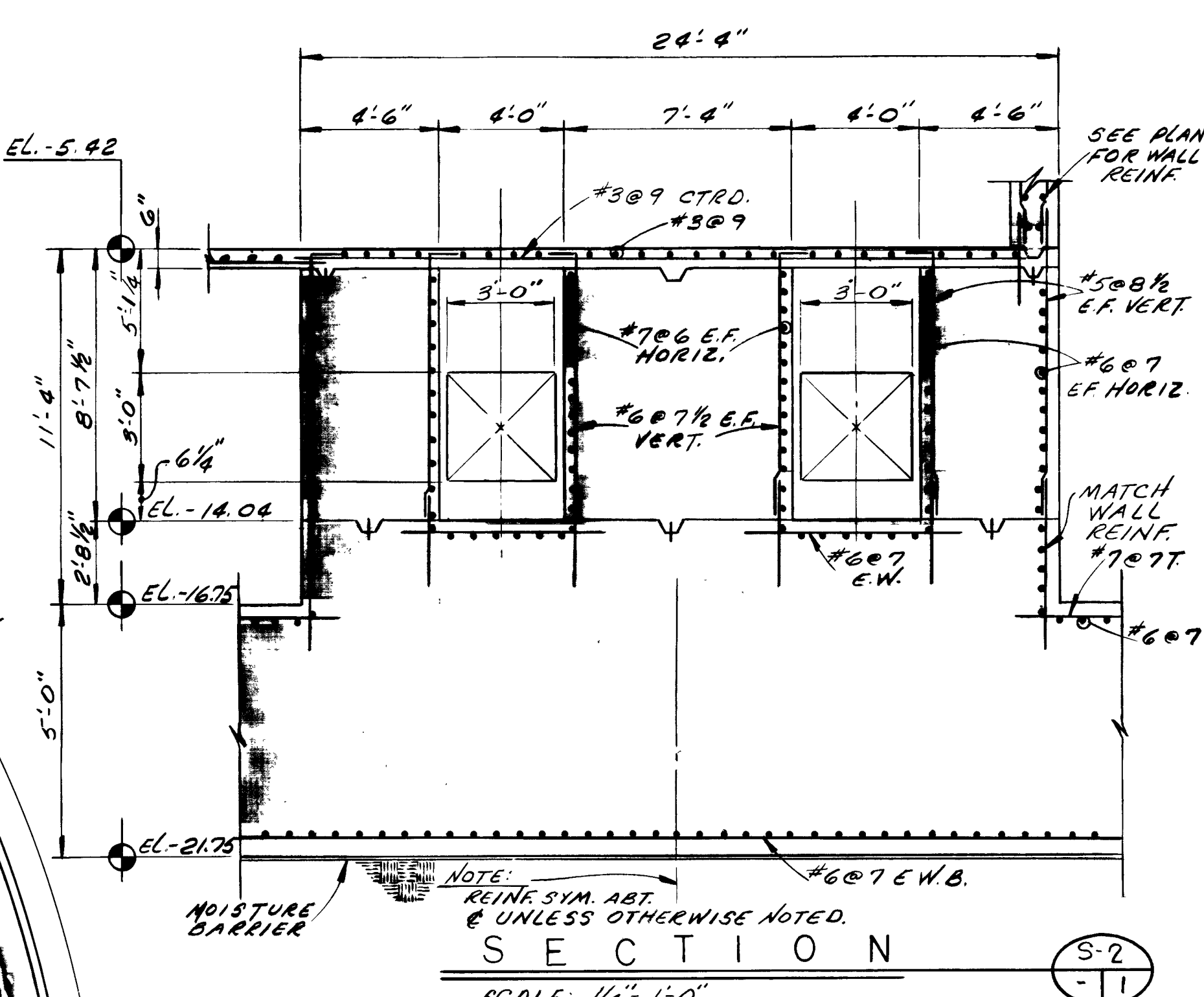
FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT		
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT		
DETAILED BY: T.A.L. CHECKED BY: L.T.H.	SCALE AS SHOWN 7205-3	DATE AUGUST 1972

GENERAL NOTES & TYPICAL DETAILS

CONTR. NO. <u>JS-23</u>	PROJ. NO. <u>011-3</u>	SHEET NO. <u>20</u> OF <u>42</u>
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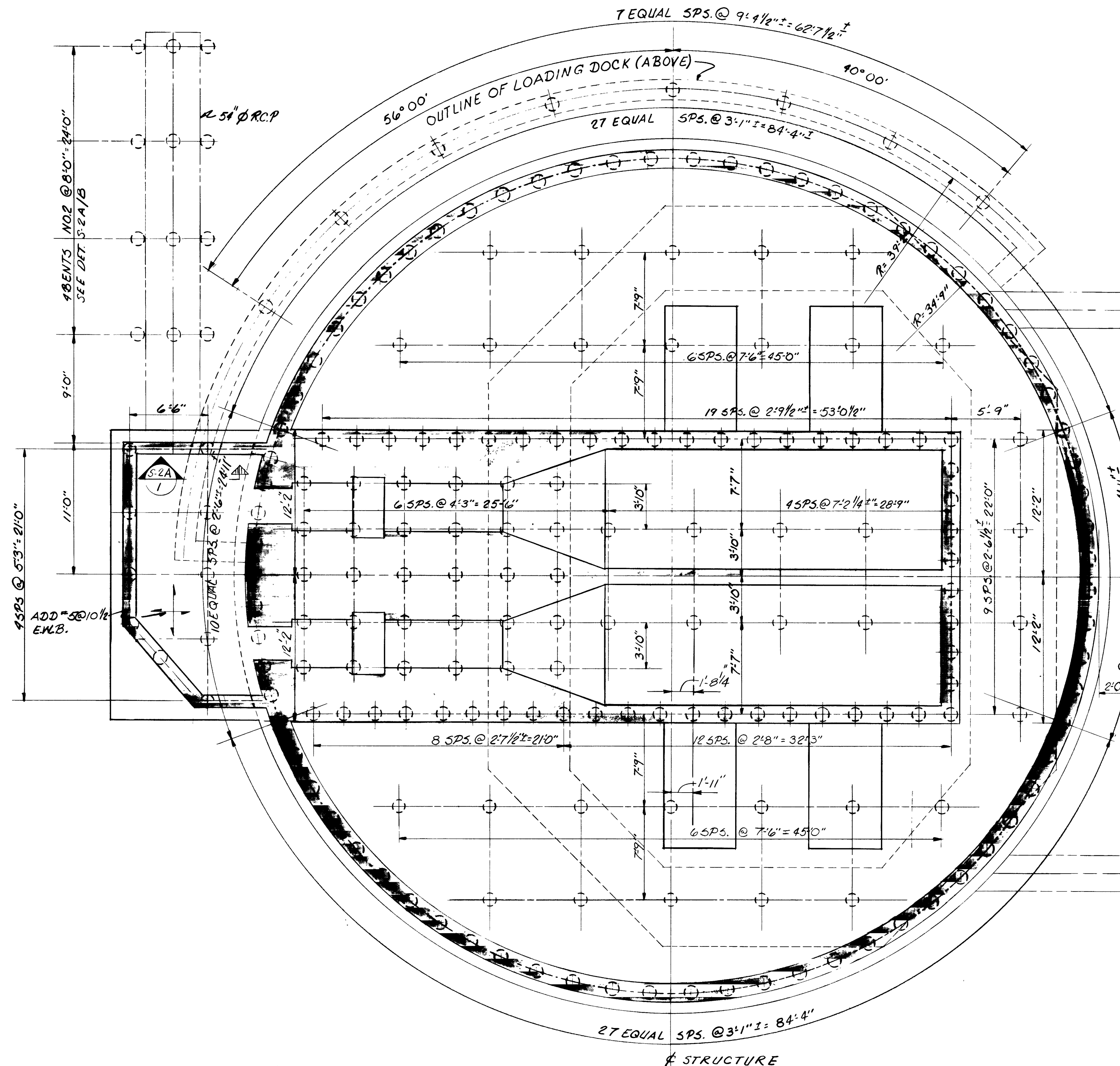


**BOTTOM SLAB
PLAN AT ELEVATION -16.75**
SCALE 1/4" = 1'-0"



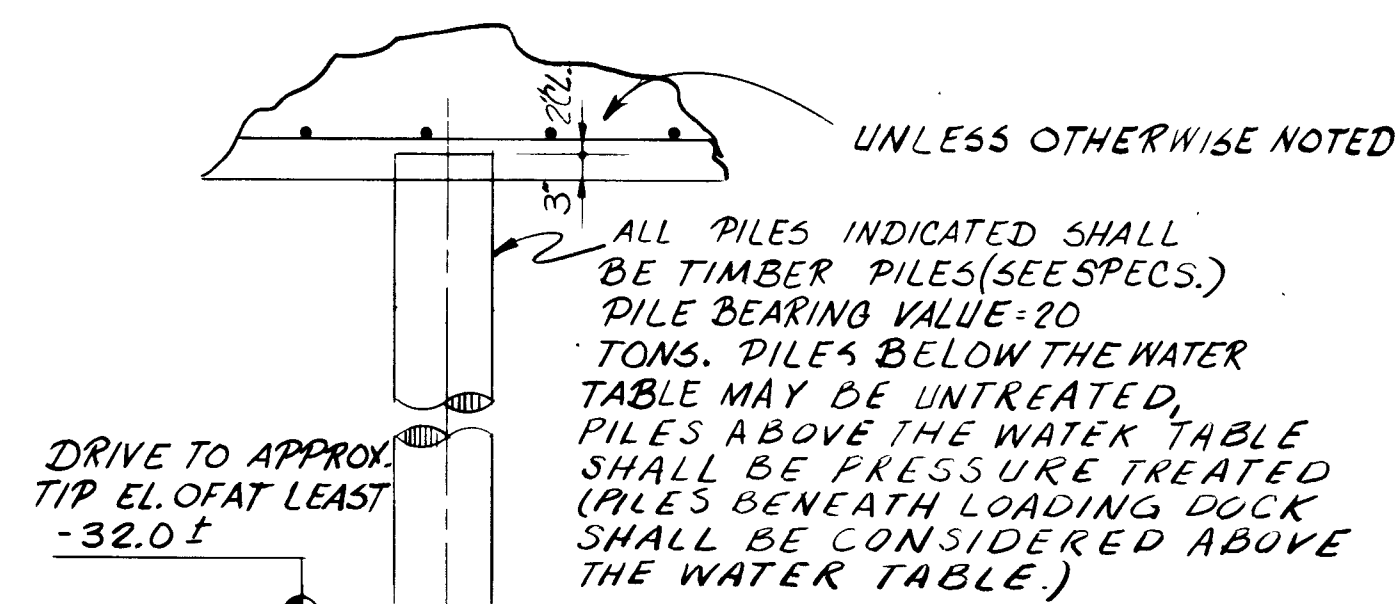
AS BUILT
APRIL 1977

NO. DESCRIPTION BY FIRM DATE S&P DATE PW DATE REVISIONS SUBMITTAL APPROVAL SUBMITTED BY: <i>L. Thomas Hill</i> REG. ENGR. FLA. NO. 6634 DATE 10/72 FLOOD & ASSOCIATES, INC. APPROVAL: <i>L. Thomas Hill</i> RECOMMENDED BY: <i>L. Thomas Hill</i> REG. ENGR. FLA. NO. 9663 DATE 3/73 SVERDRUP & PARCEL AND ASSOCIATES, INC. APPROVED BY: <i>J. D. Hight</i> REG. ENGR. FLA. NO. 1270 DATE 2/74 WATER AND SEWER DIVISION AUTHORIZED BY: <i>J. D. Hight</i> REG. ENGR. FLA. NO. 4840 DATE 2/72 OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM PHASE 2 HOGANS CREEK PUMPING STATION FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT DETAILED BY: C.D. SCALE: AS SHOWN DATE: AUGUST 1972 CHECKED BY: L.T.H. 7205-3 BOTTOM SLAB PLAN AT ELEV.-16.75 CONTR. NO. JS-23 PROJ. NO. 011-3 SHEET NO. 21 OF 42									
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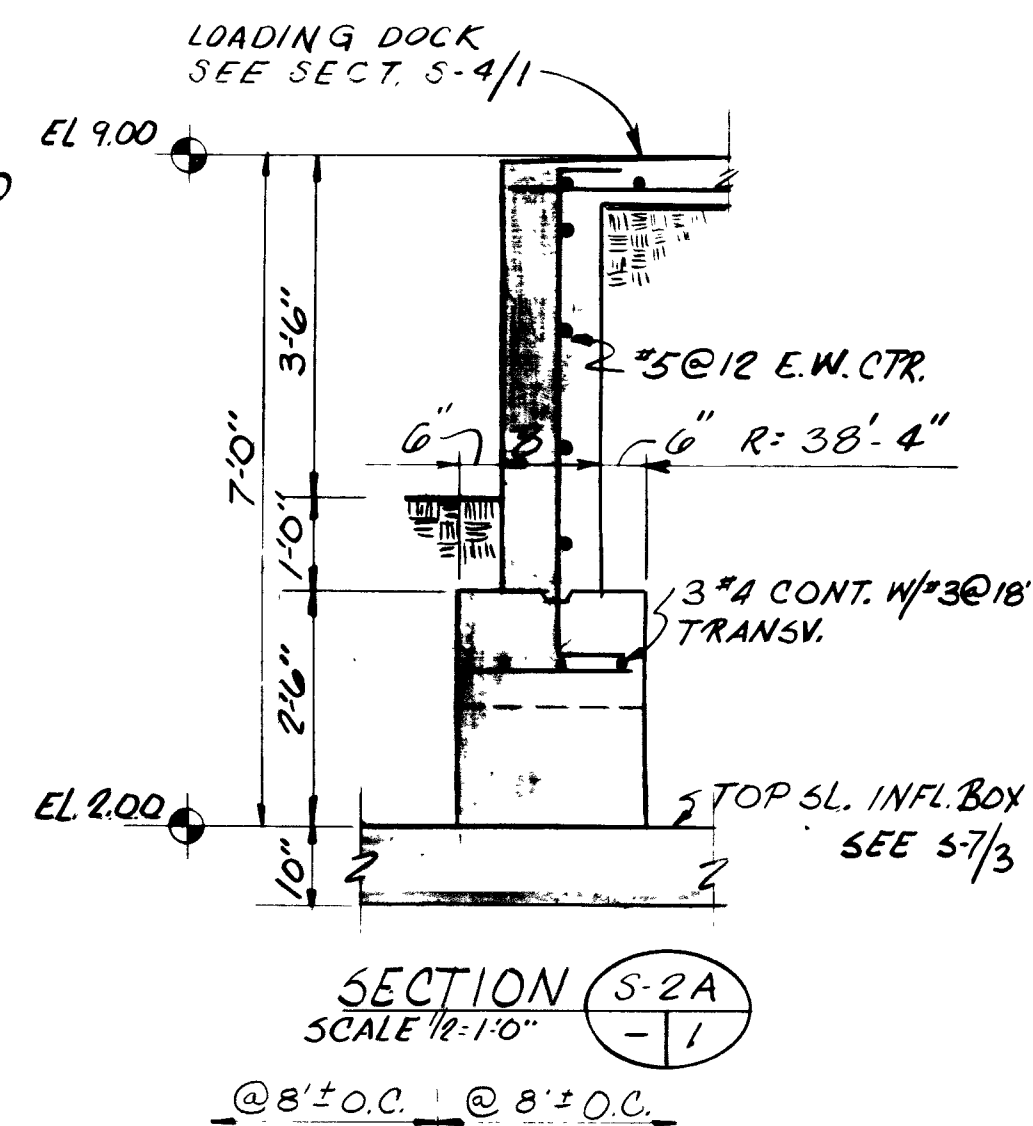


PILE PLAN
SCALE: 3/16"=1'-0"

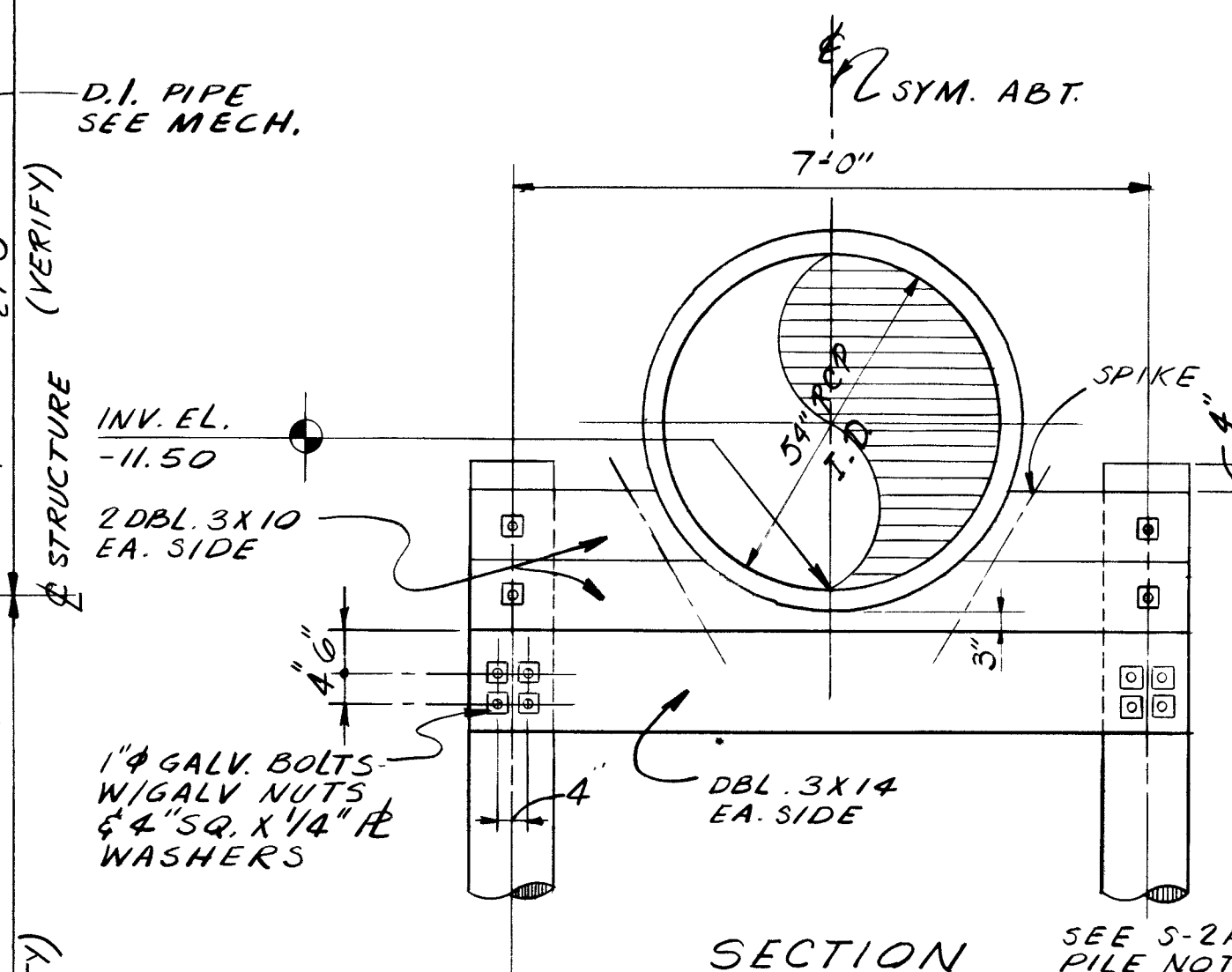
- NOTES:
1. 22 G. PILES. SEE SECTIONS FOR PILE CUT-OFF ELEVATIONS.
2. PILE BEARING VALUE = 20 TONS.



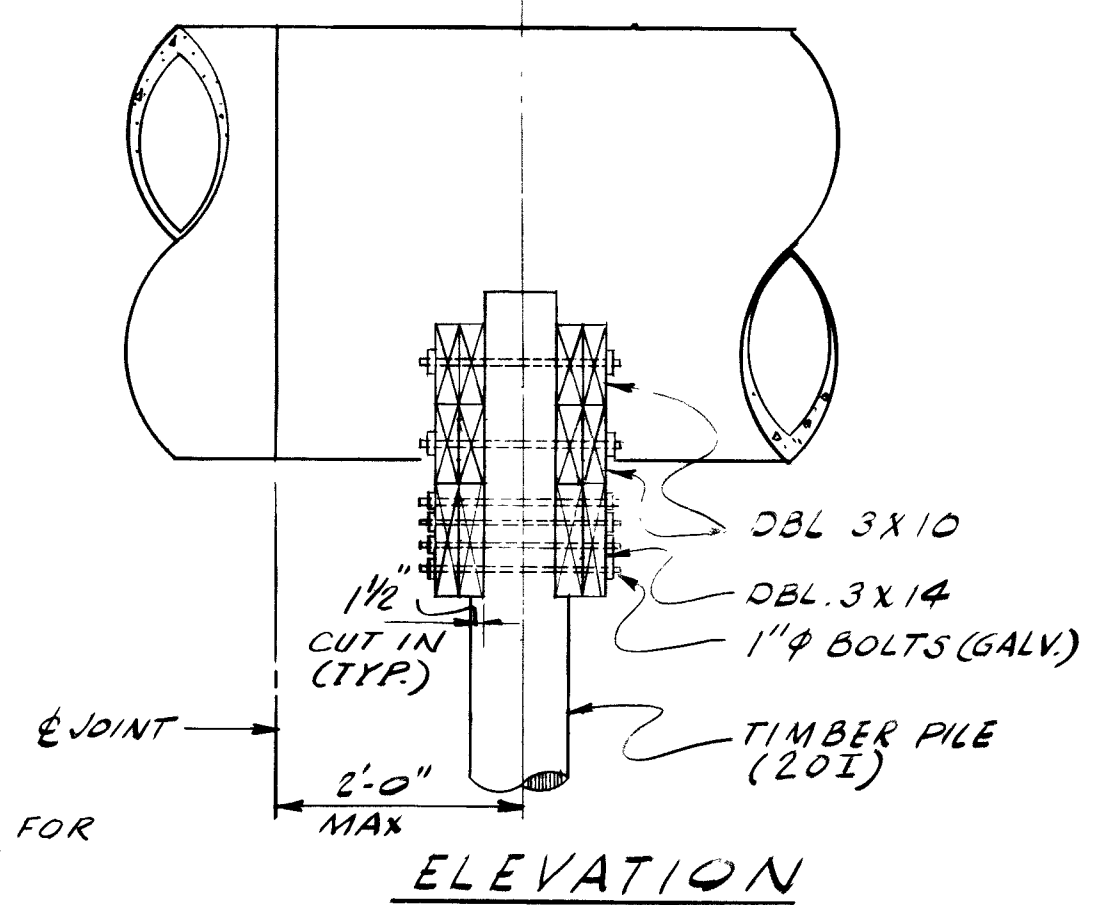
TYPICAL PILE DETAIL
NO SCALE



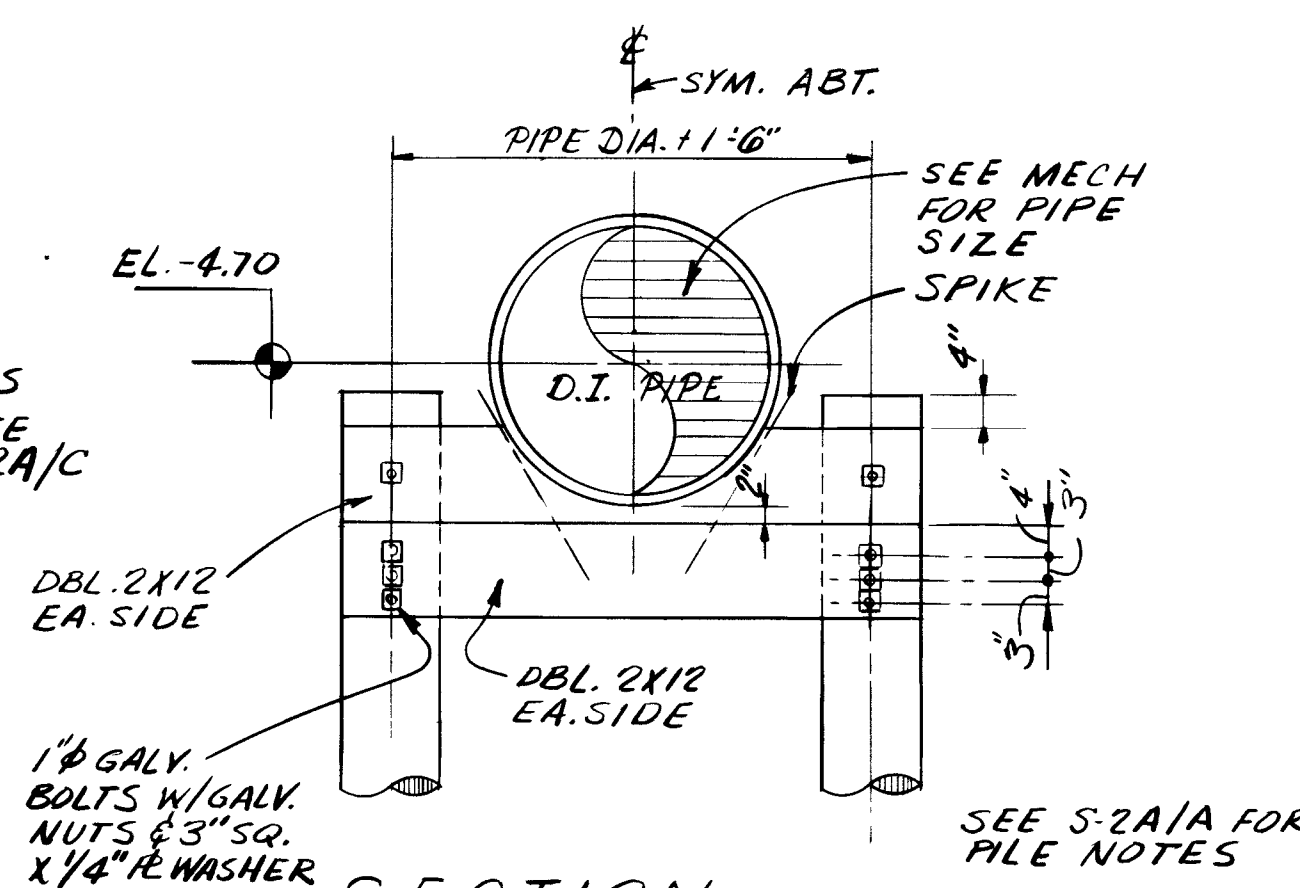
SECTION S-2A
SCALE: 1/2"=1'-0"



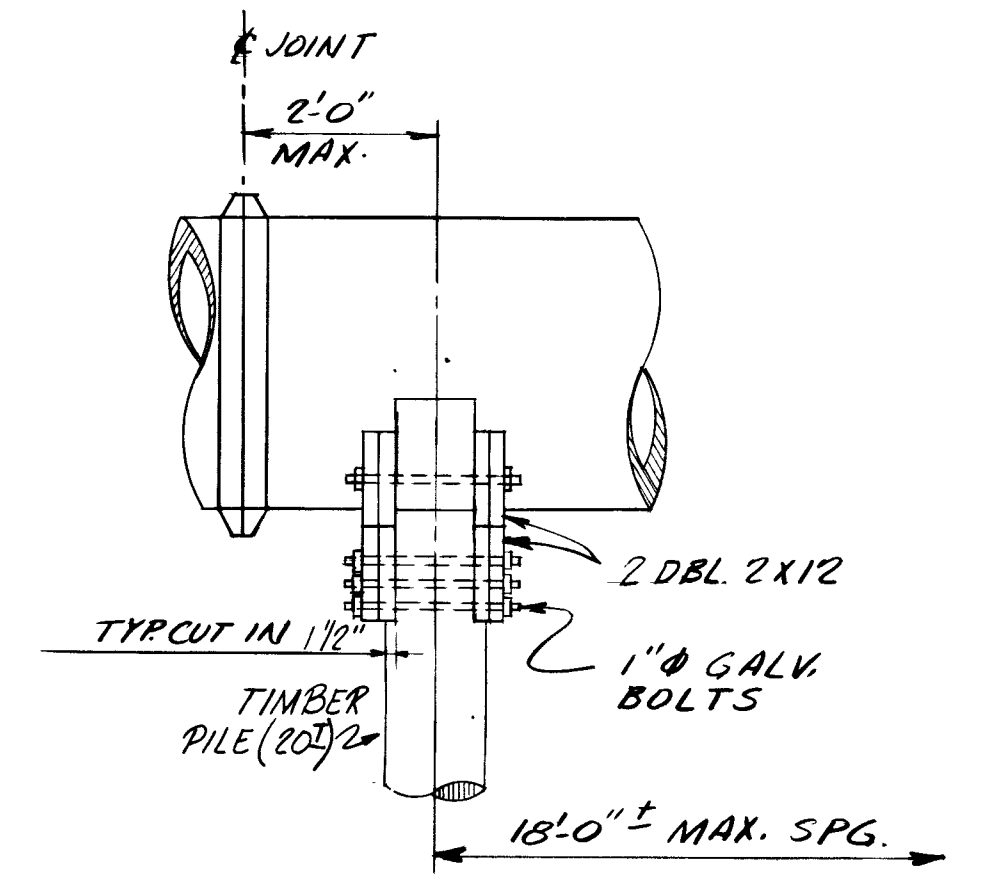
SECTION S-2A
SCALE: 1/2"=1'-0"



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



SECTION S-2A



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

AS BUILT
APRIL 1977

S-2A

SUBMITTED BY: <i>[Signature]</i>		APPROVED BY: <i>[Signature]</i>	
REG. ENGR. FLA. NO. 6634 DATE: <i>[Date]</i>		REG. ENGR. FLA. NO. 4270 DATE: <i>[Date]</i>	
FLOOD & ASSOCIATES, INC.		OFFICE OF DIRECTOR OF PUBLIC WORKS	
APPROVAL: <i>[Signature]</i>		SVERDRUP & PARCEL AND ASSOCIATES, INC.	
RECOMMENDED BY: <i>[Signature]</i>		CITY OF JACKSONVILLE, FLORIDA	
DATE: <i>[Date]</i>			

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

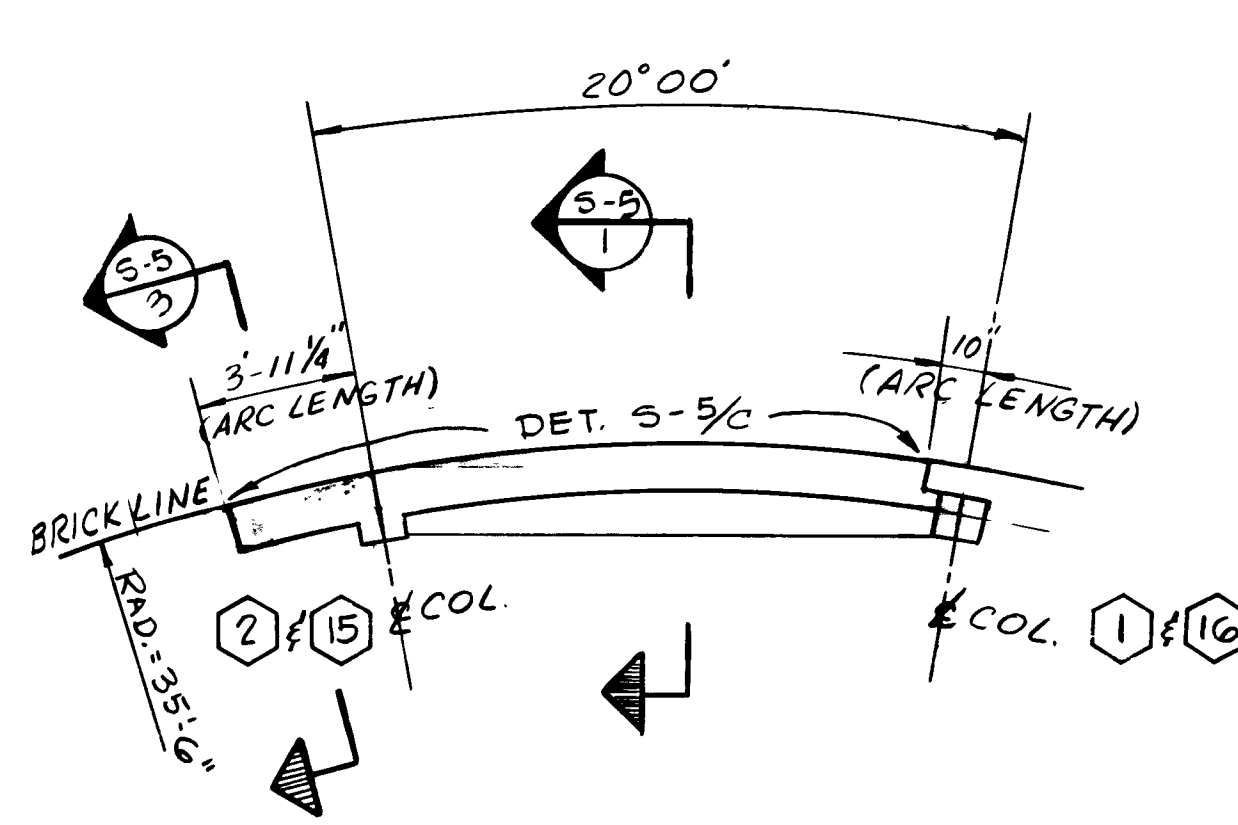
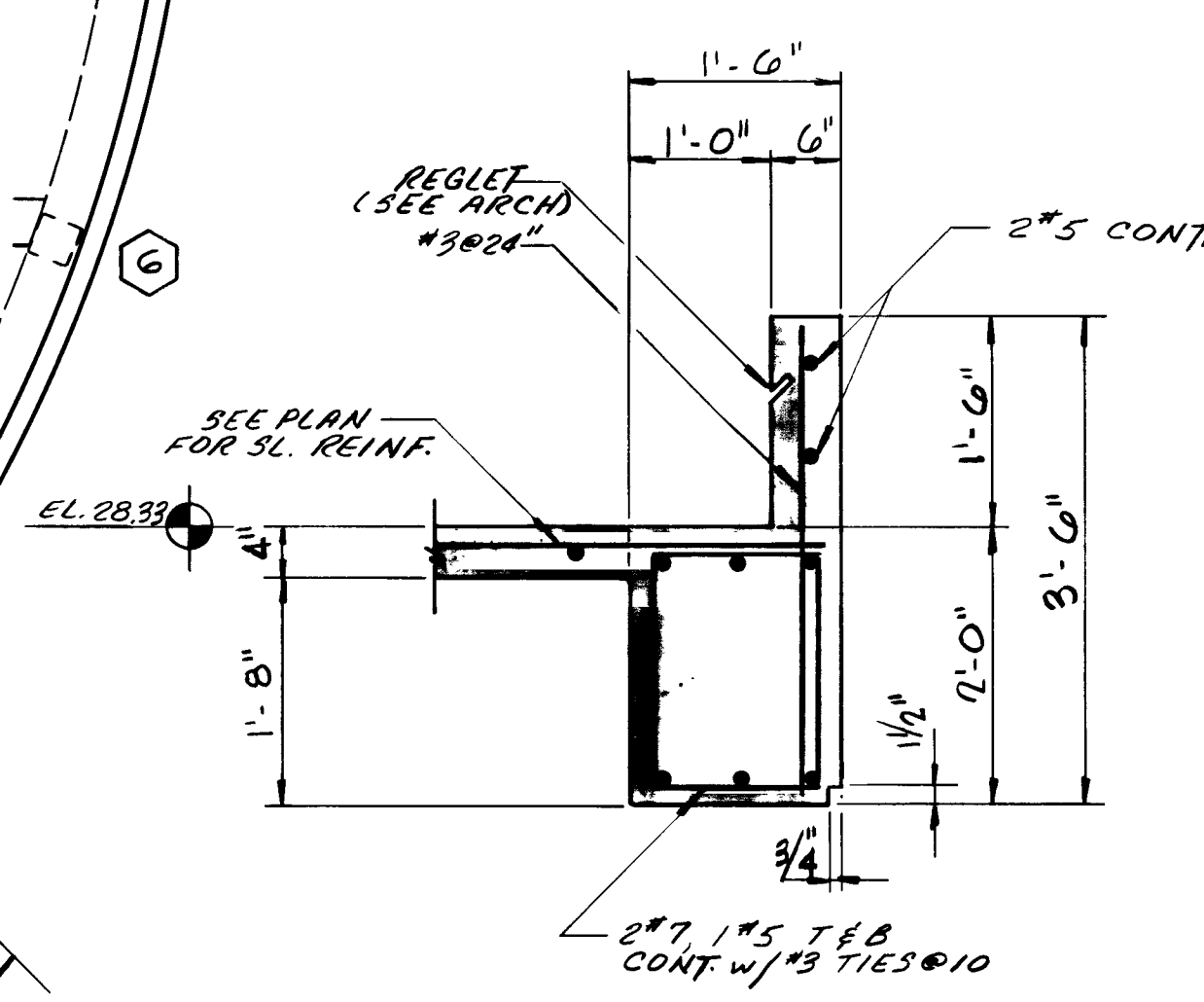
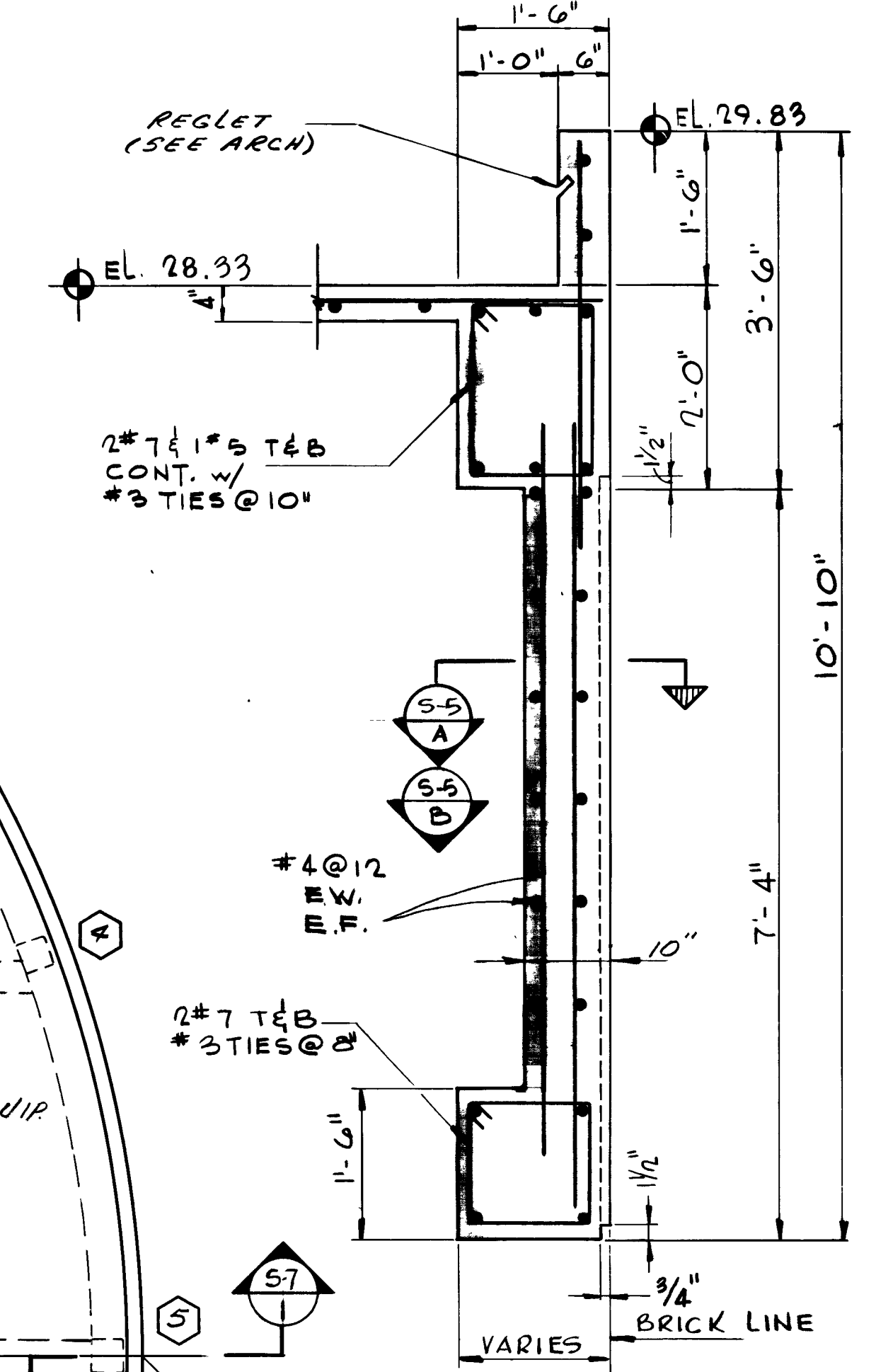
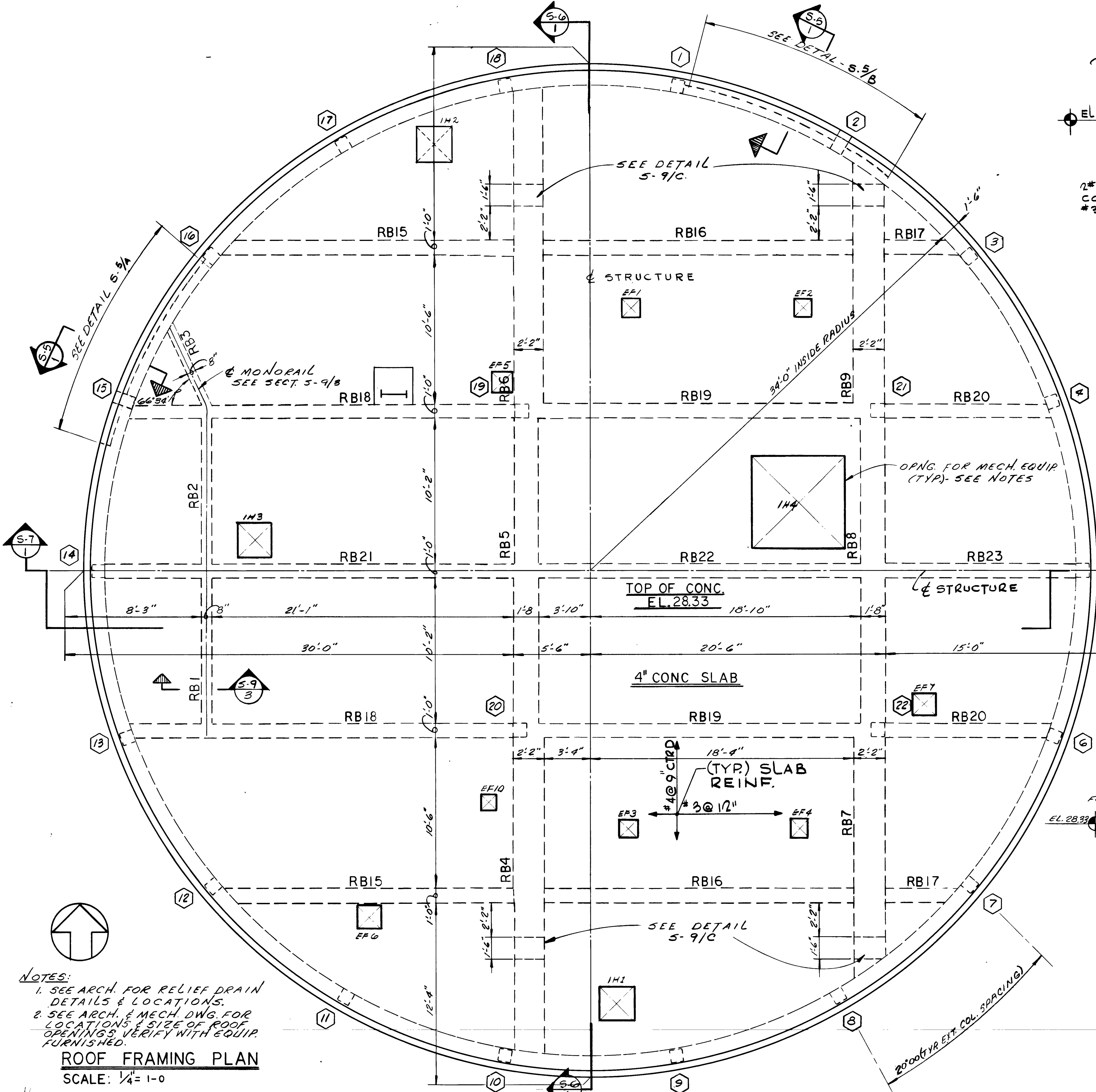
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT

7542

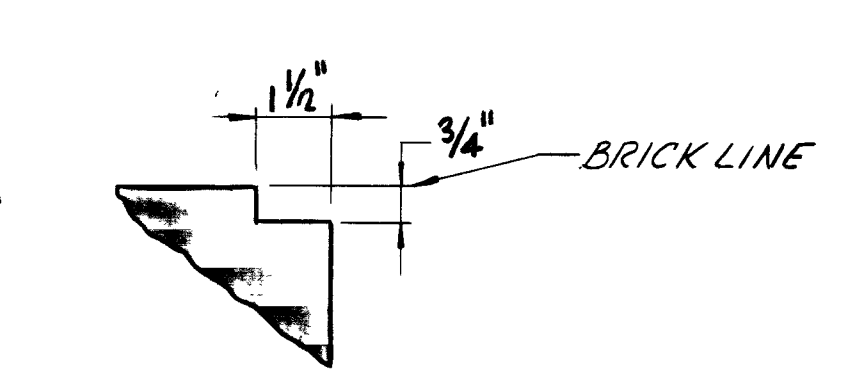
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT	
DETAILED BY: <i>R.J.L.</i>	SCALE: AS SHOWN
CHECKED BY: <i>L.T.H.</i>	DATE: AUGUST 1973
7205-3	

ALTERNATE FOUNDATION PLAN

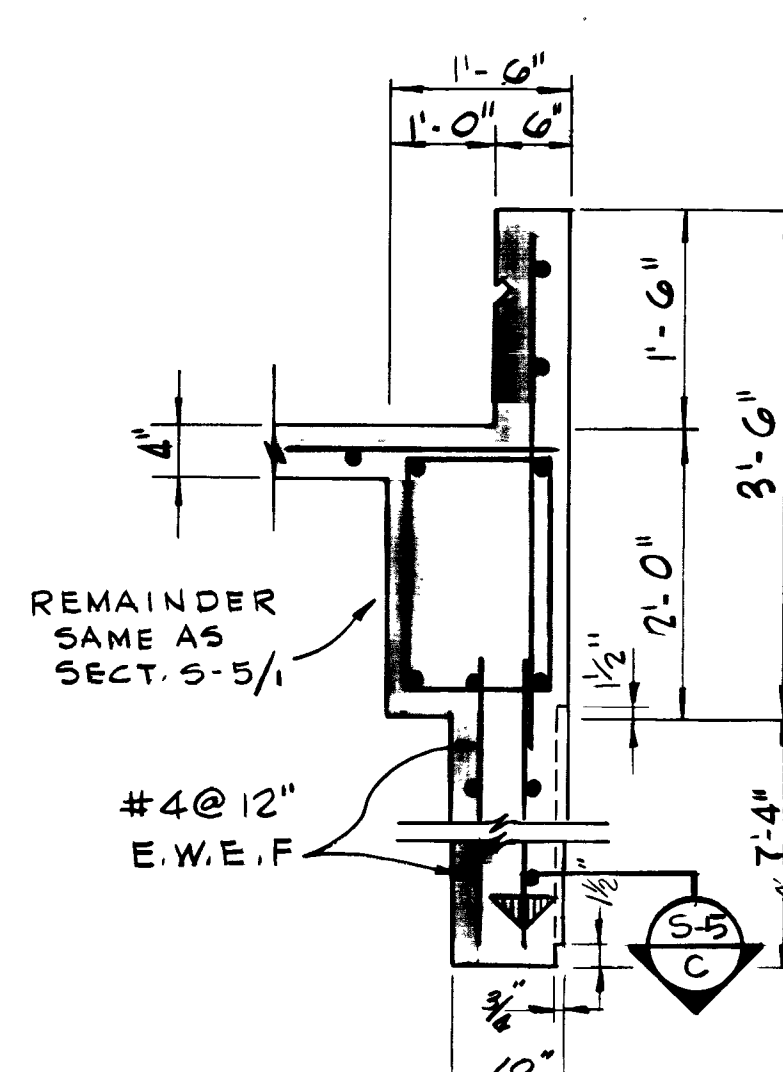
CONTR. NO. JS-23 PROJ. NO. 011-3 SHEET NO. 2/A OF 42A



NOTE: DETAIL S-5/A DRAWN
DETAIL S-5/B OPP. HAND



TYP. REVEAL S-5/C
SCALE: 3/4" = 1'-0"



SECTION S-5/3
SCALE: 3/4" = 1'-0"

AS BUILT S-5
APRIL 1977

NOTES:
1. SEE ARCH. FOR RELIEF DRAIN DETAILS & LOCATIONS.
2. SEE ARCH. & MECH. DWG. FOR LOCATIONS & SIZE OF ROOF OPENINGS. VERIFY WITH EQUIP. FURNISHED.

ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE

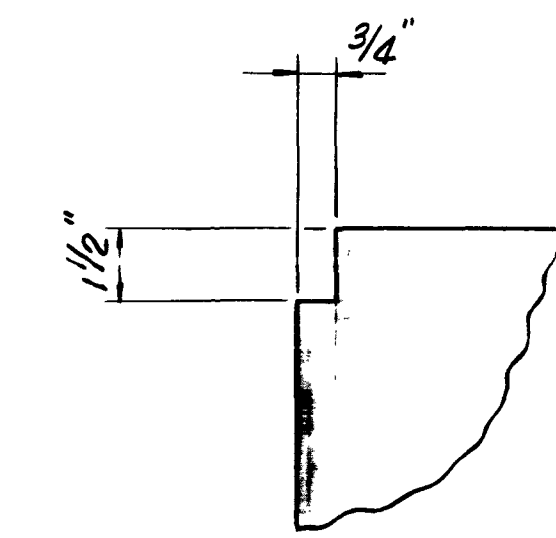
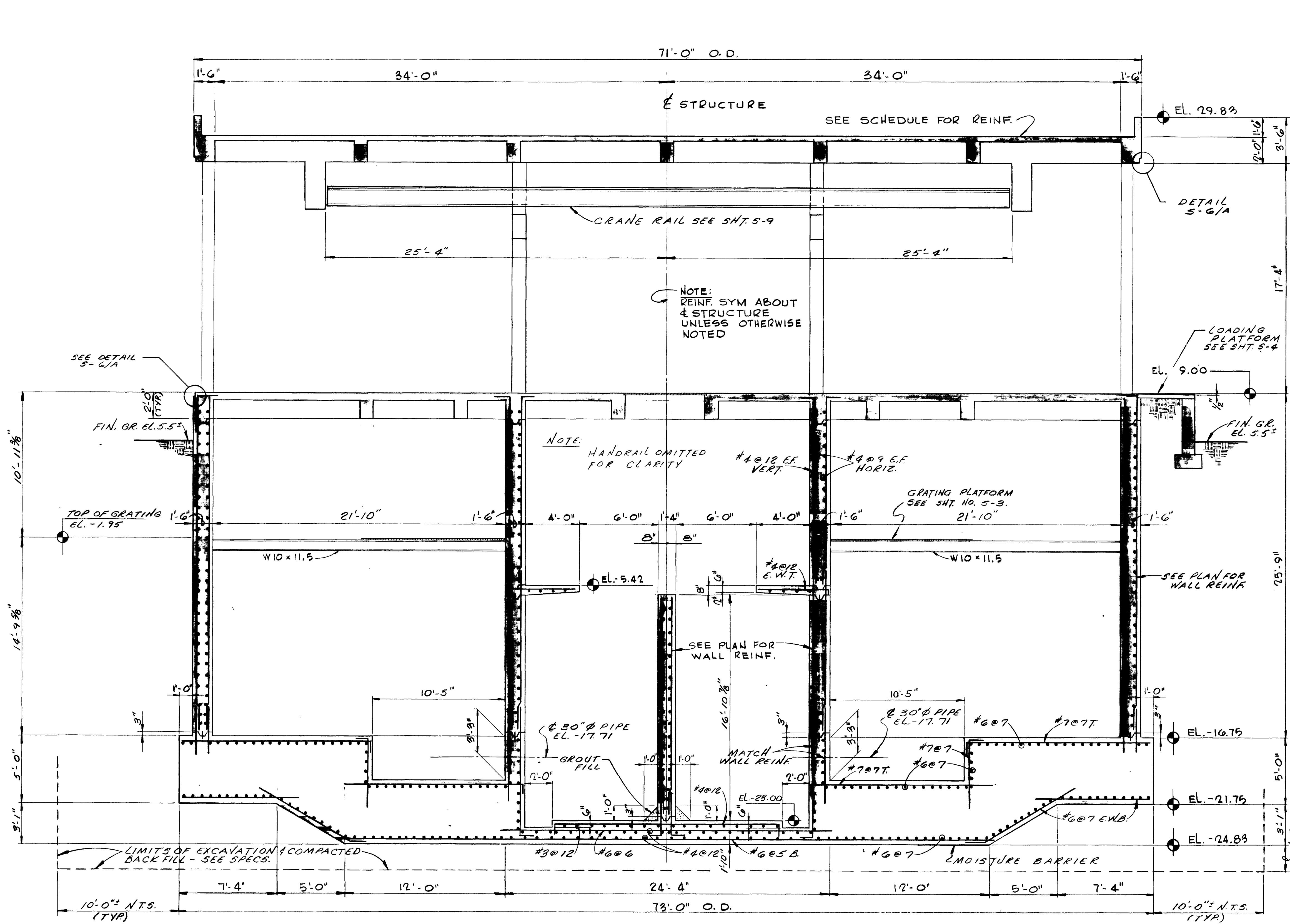
SUBMITTED BY: *John H. H. H.*
REG. ENGR. FLA. NO. 6634 DATE 1/1/72
FLOOD & ASSOCIATES, INC.
APPROVAL
RECOMMENDED BY: *John H. H. H.*
REG. ENGR. FLA. NO. 9663 DATE 2/7/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: *John H. H. H.*
REG. ENGR. FLA. NO. 2770 DATE 2/7/73
WATER AND SEWER DIVISION
AUTHORIZED BY: *John H. H. H.*
REG. ENGR. FLA. NO. 6647 DATE 2/2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

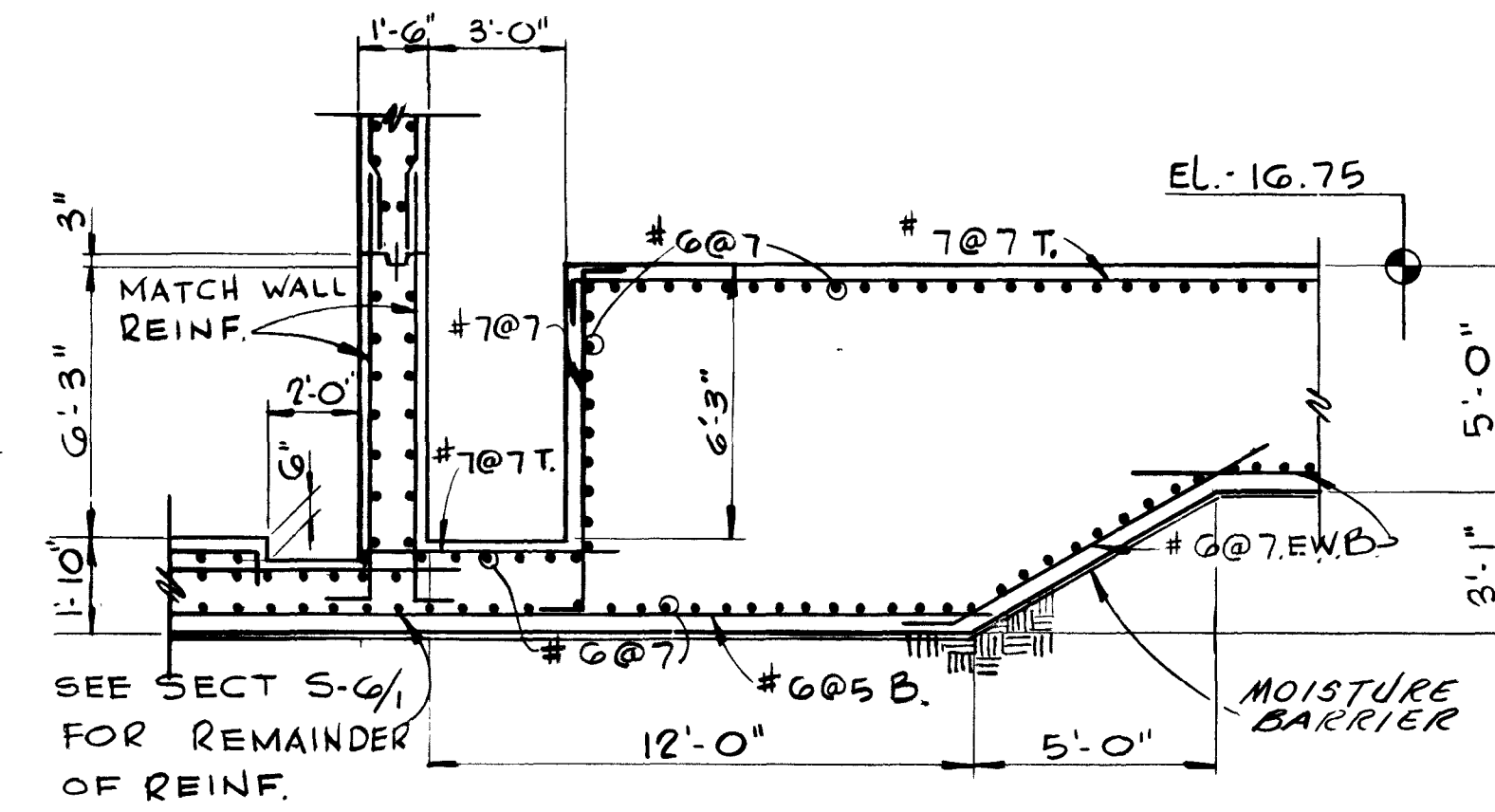
CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT
DETAILED BY: **C.D.** SCALE: **AS SHOWN** DATE: **AUGUST 1972**
CHECKED BY: **L.T.H.** 7205-3

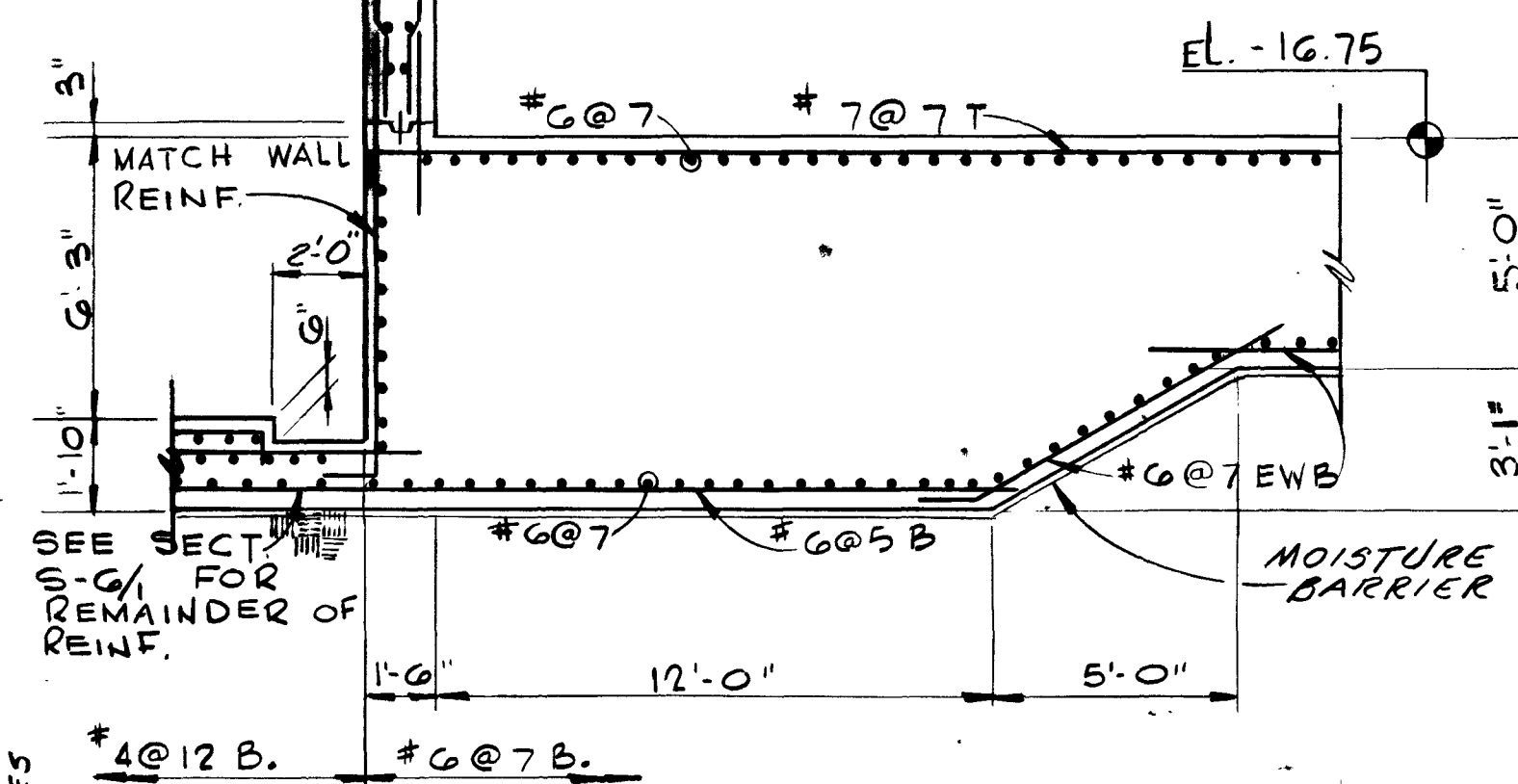
7545
ROOF FRAMING PLAN
CONTR. NO. **JS-23** PROJ. NO. **011-3** SHEET NO. **24** OF **42**



REVEAL DETAIL (S-6) 5-6/4
SCALE: 3" = 1'-0"



SECTION (S-6) 5-2/2
SCALE: 1/4" = 1'-0"



SECTION (S-6) 5-2/3
SCALE: 1/4" = 1'-0"

SECTION (S-6) 5-2/1
SCALE: 1/4" = 1'-0"

AS BUILT (S-6)
APRIL 1977

NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE

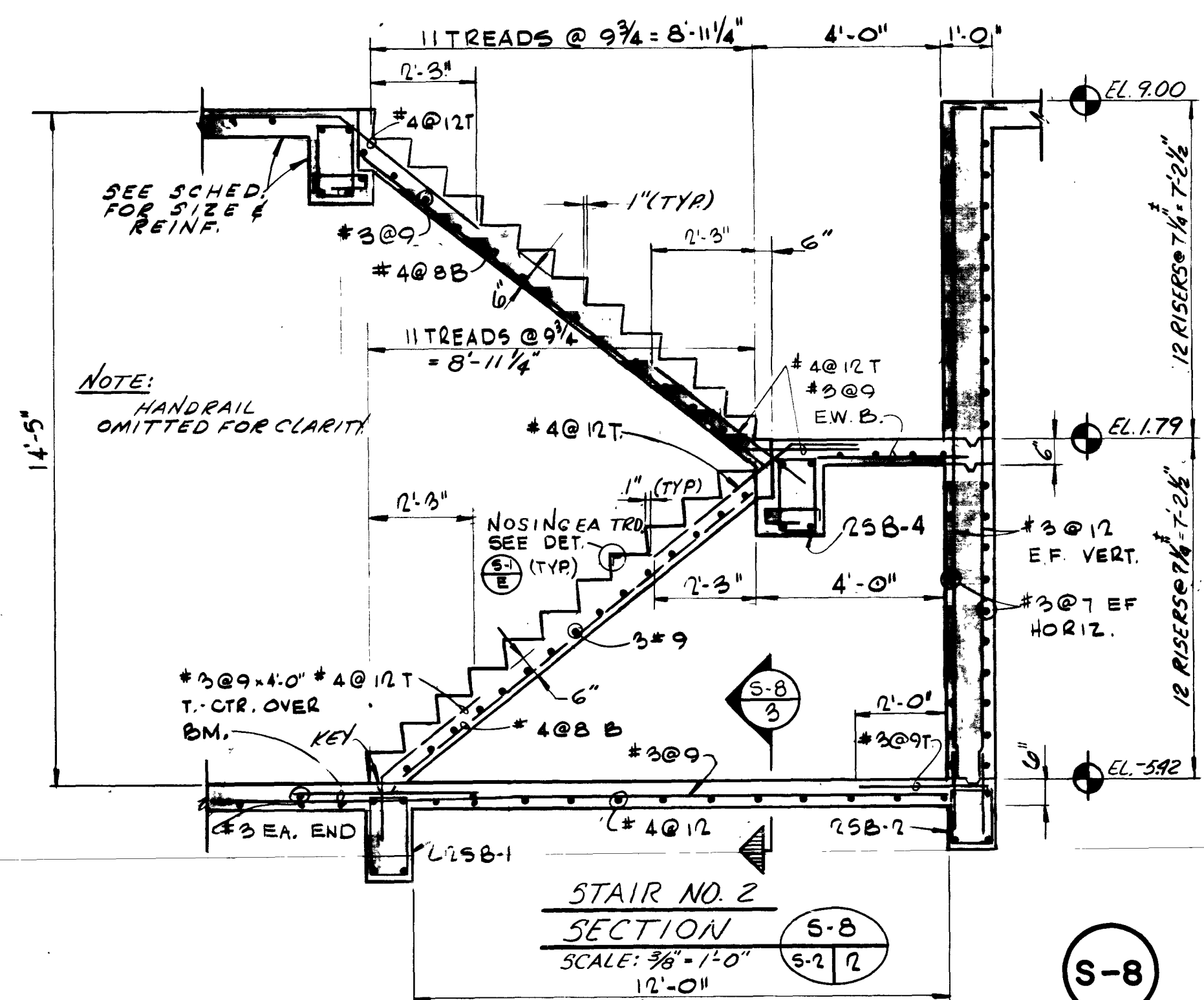
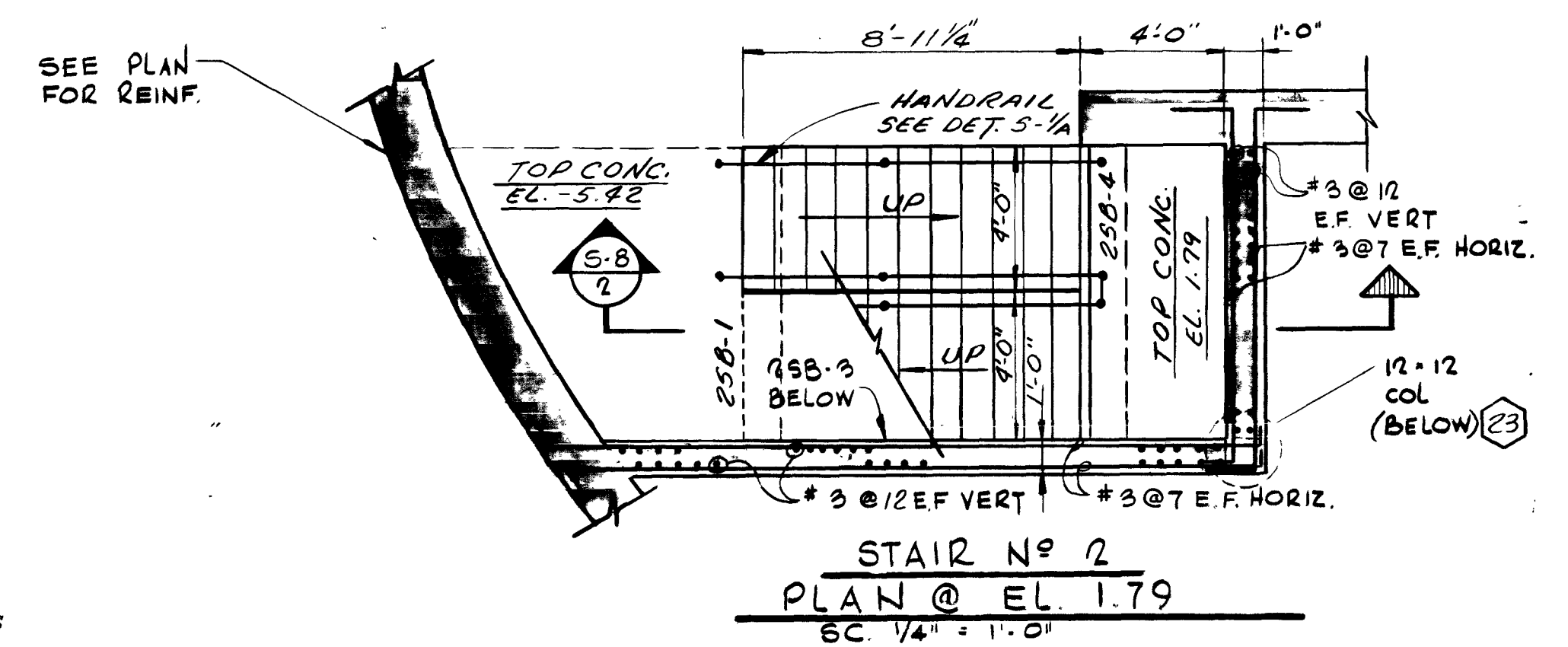
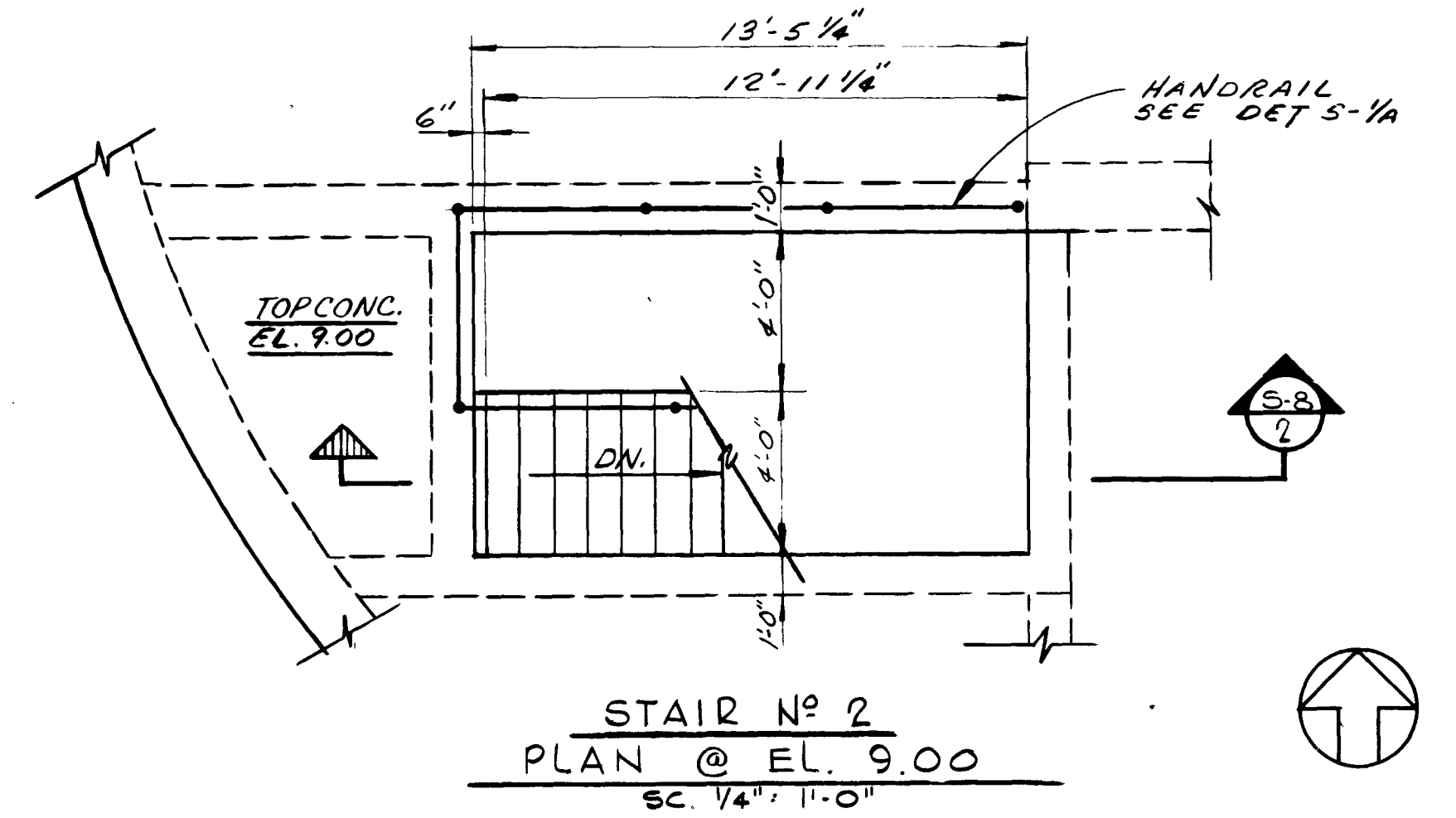
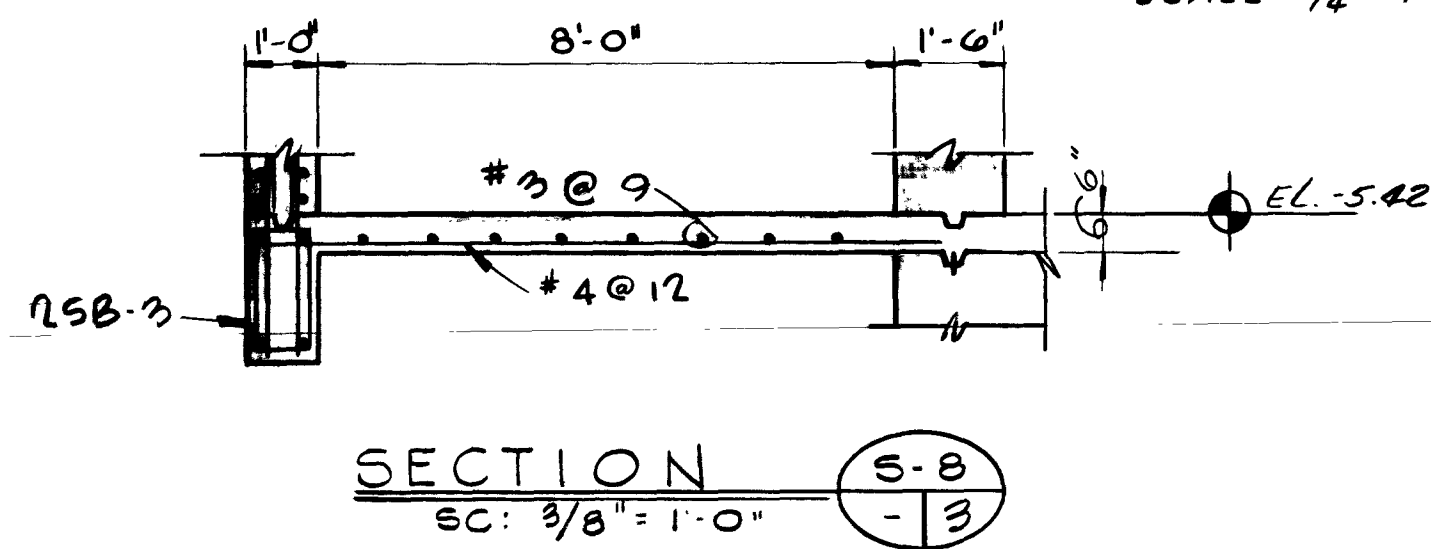
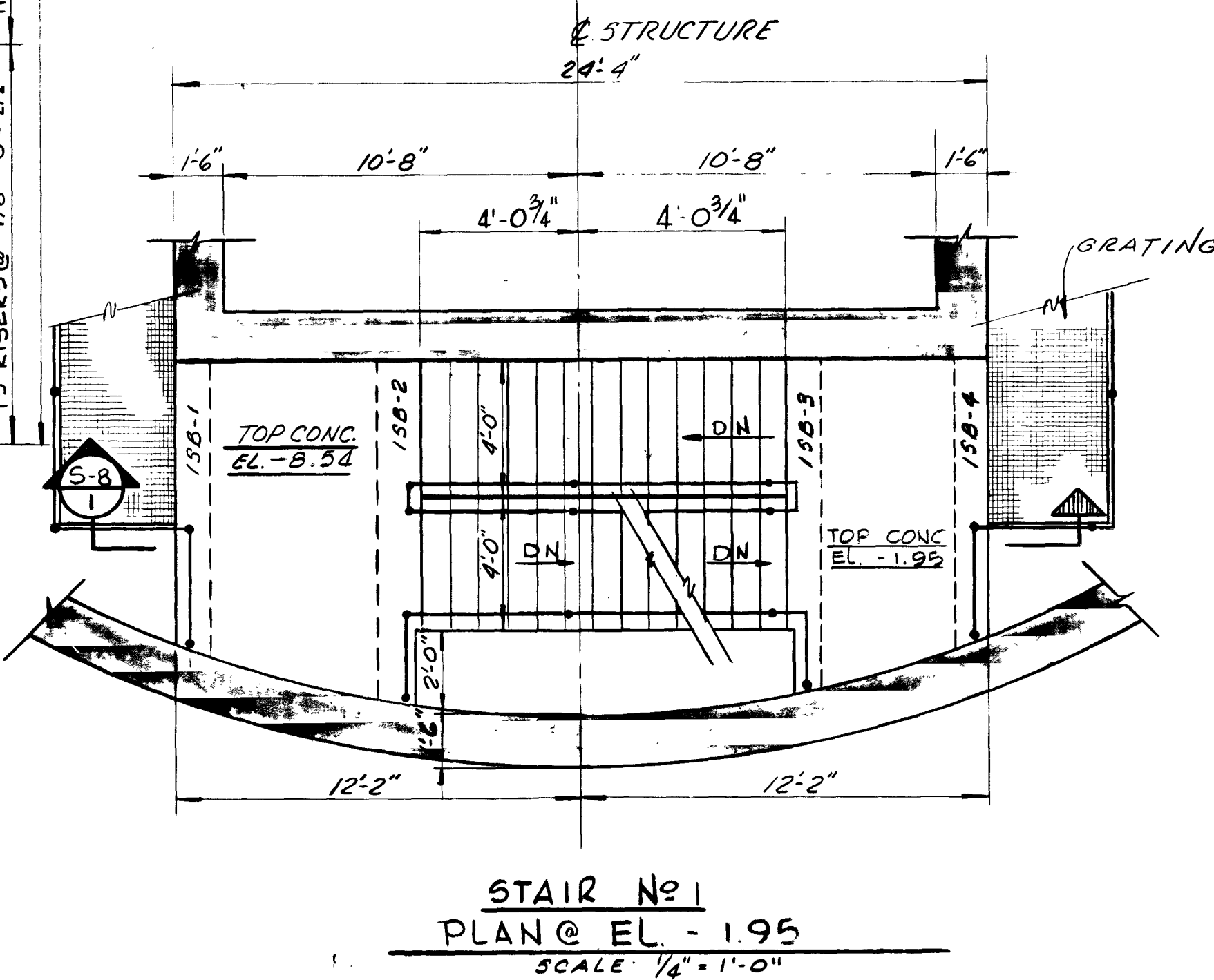
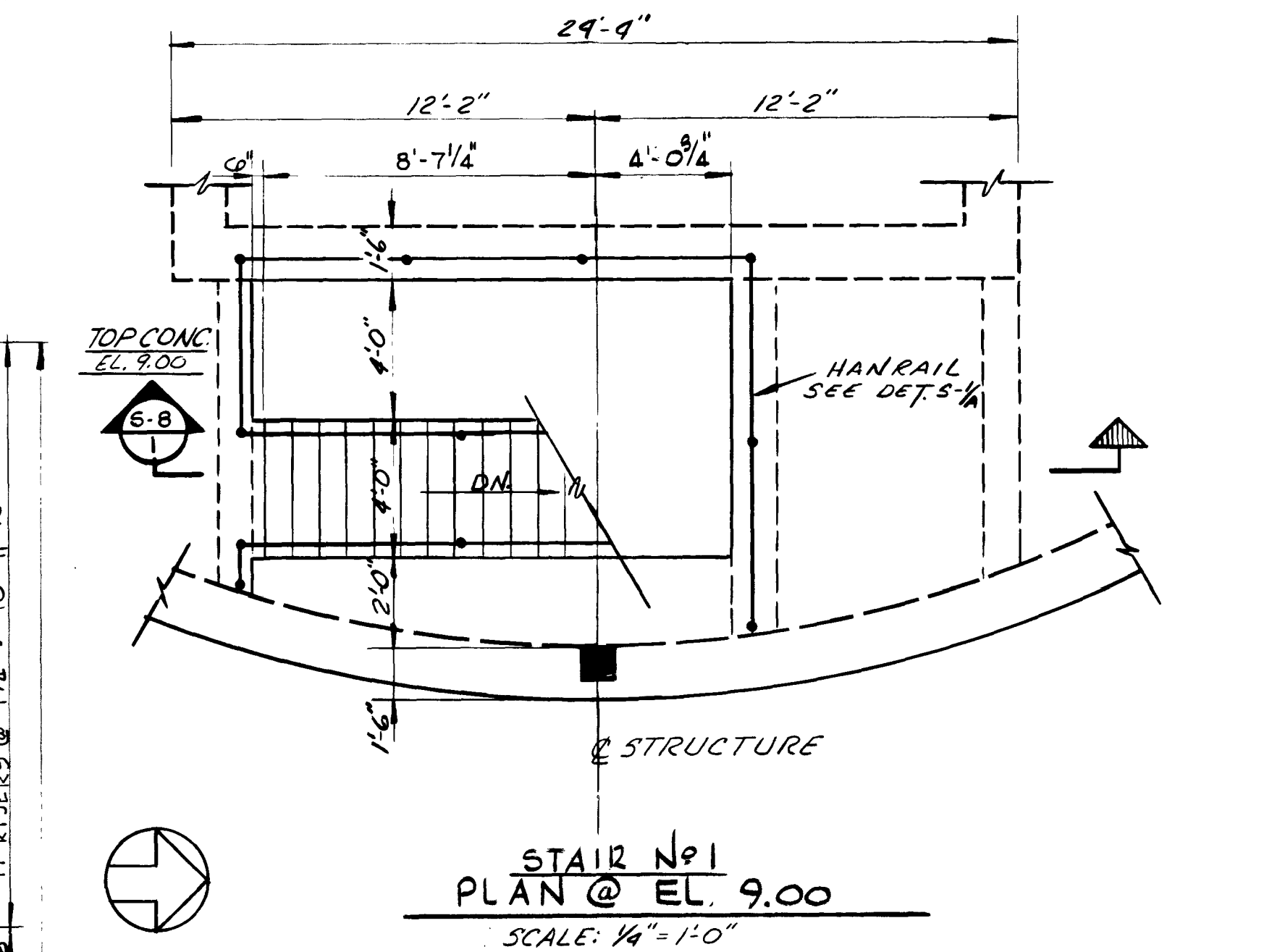
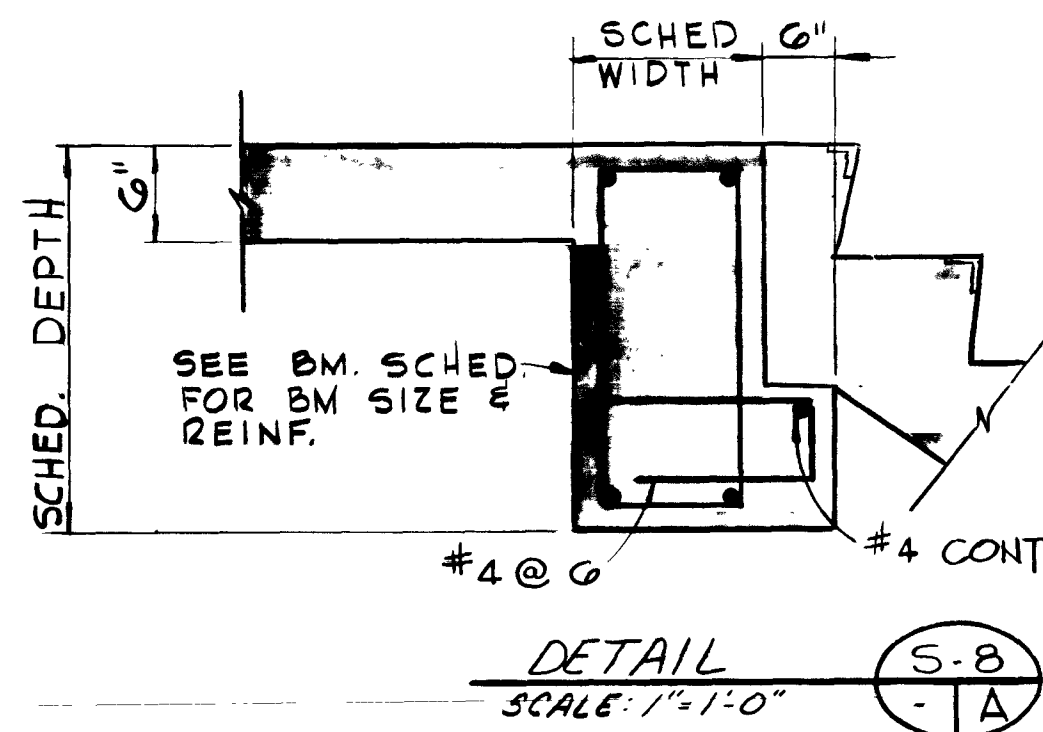
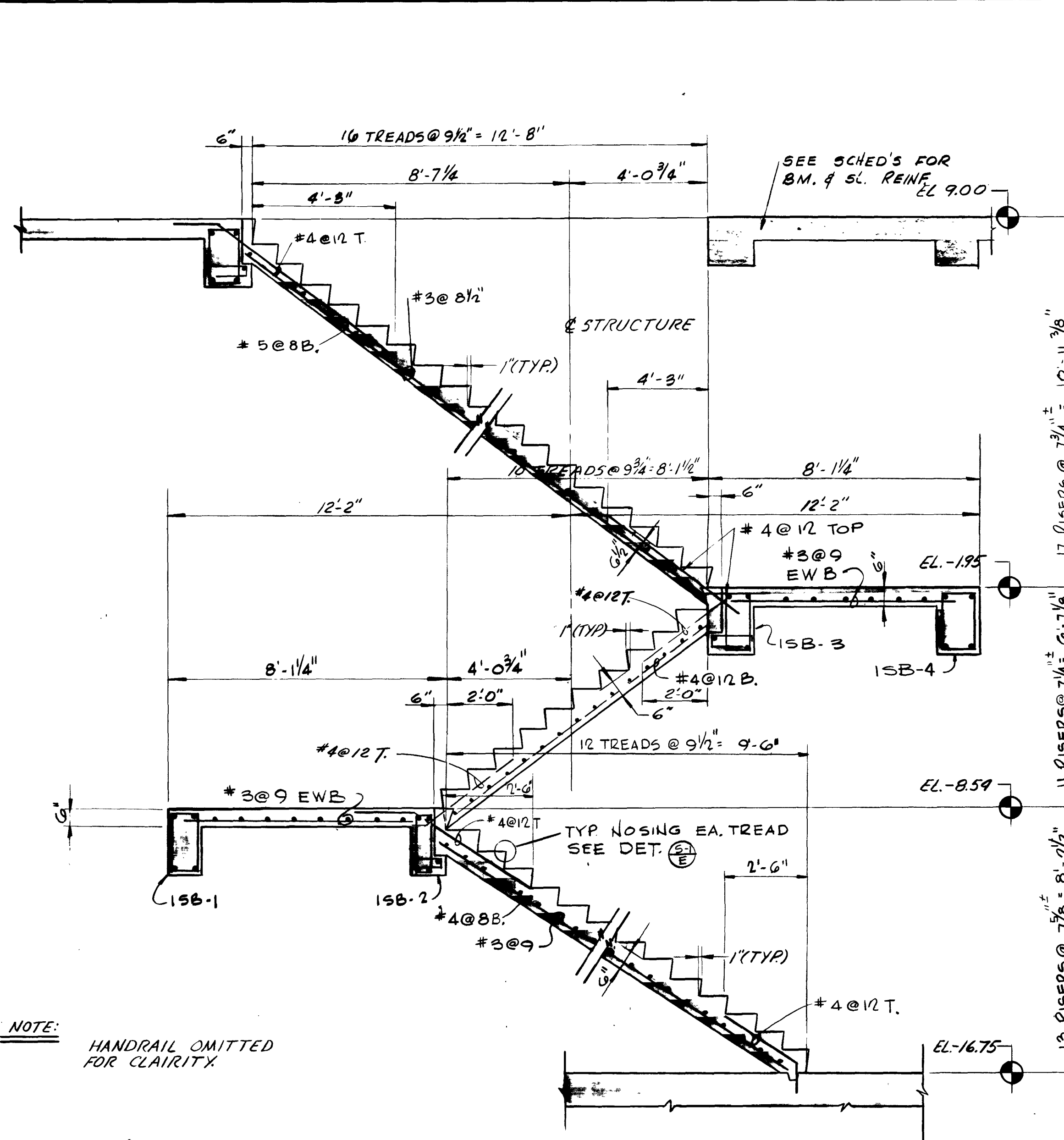
SUBMITTED BY: *L. J. Korman*
REG. ENGR. FLA. NO. 6634 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL: *H. J. Korman*
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: *L. J. Korman*
REG. ENGR. FLA. NO. 2170 DATE 1/73
WATER AND SEWER DIVISION
AUTHORIZED BY: *L. J. Korman*
REG. ENGR. FLA. NO. 1847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT
DETAILED BY: C.D. SCALE AS SHOWN
CHECKED BY: L.T.H. 7205-3
DATE AUGUST 1972

7546
CROSS SECTION
CONTR. NO. JS-23 PROJ. NO. 011-3 SHEET NO. 25 OF 42

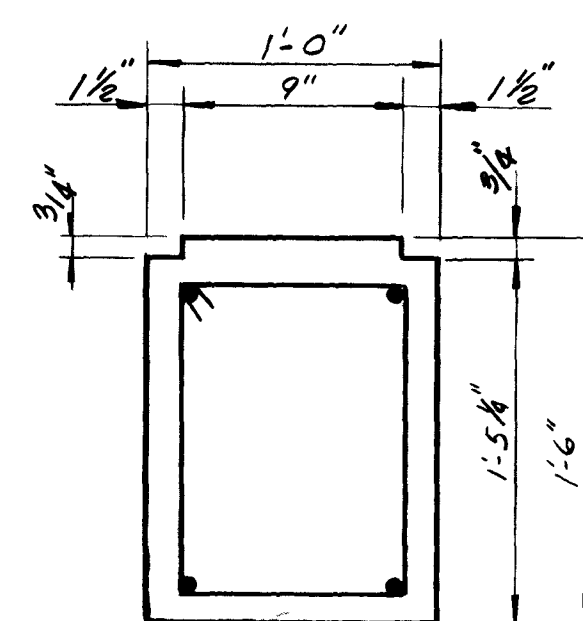
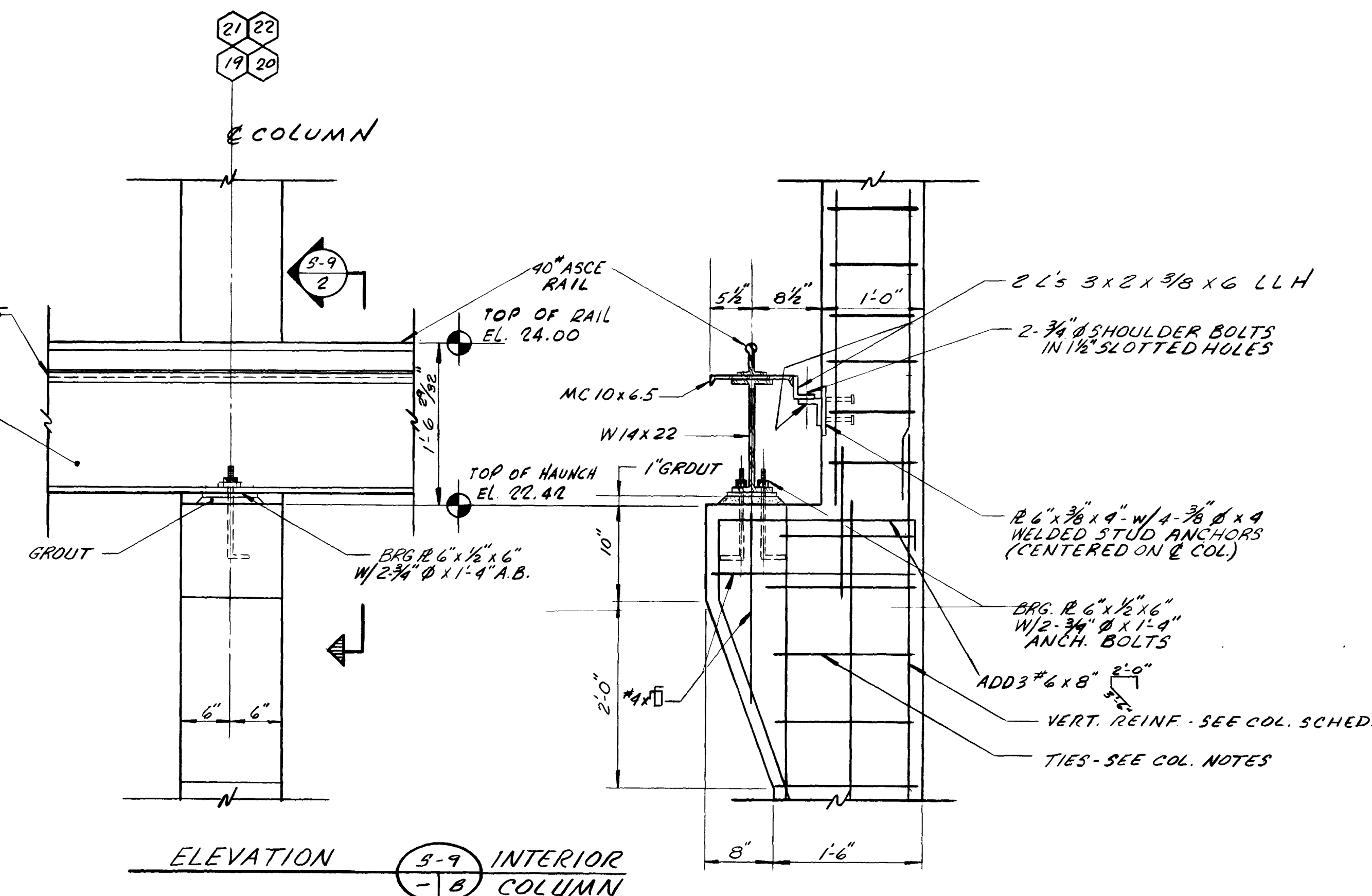
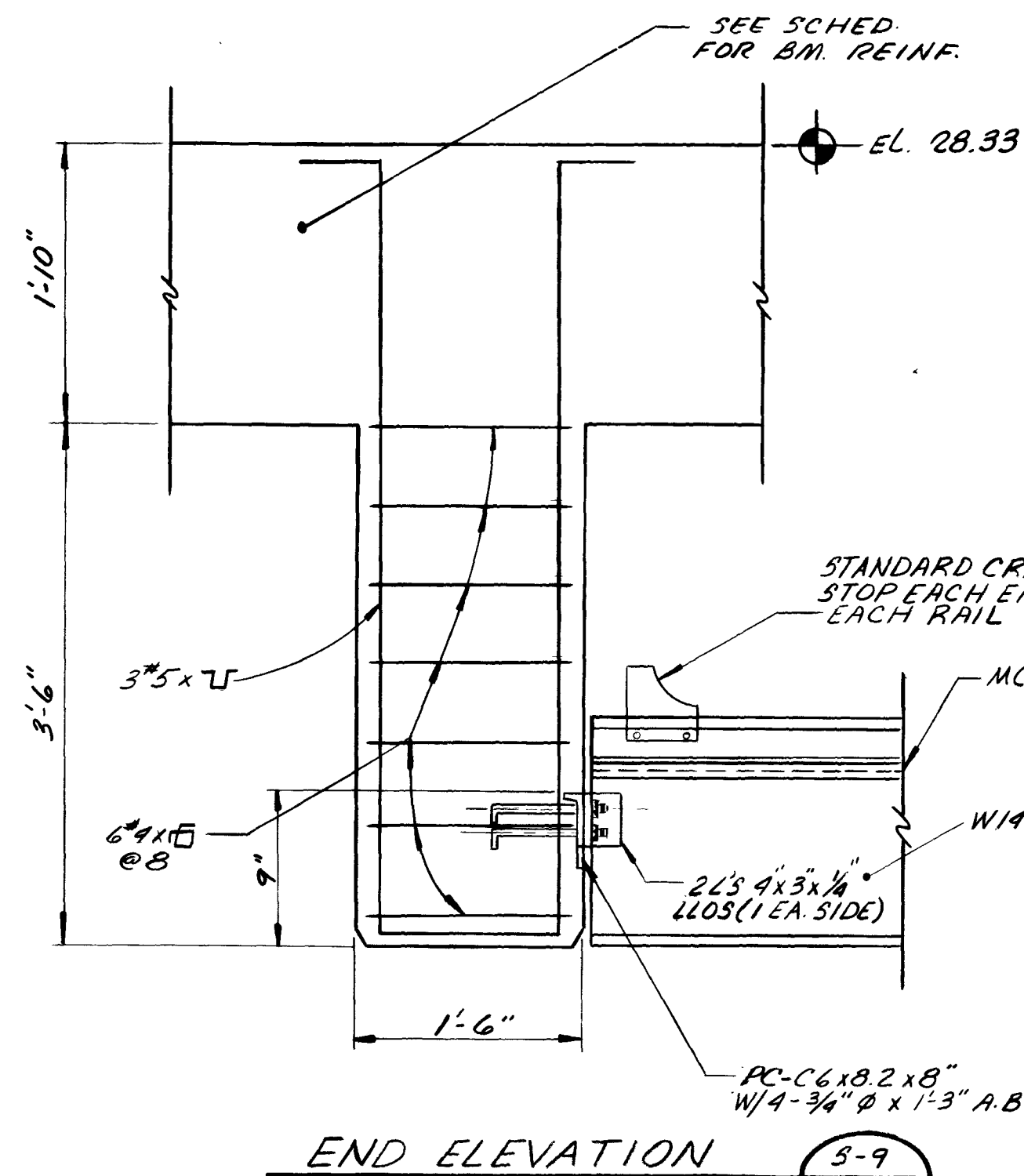
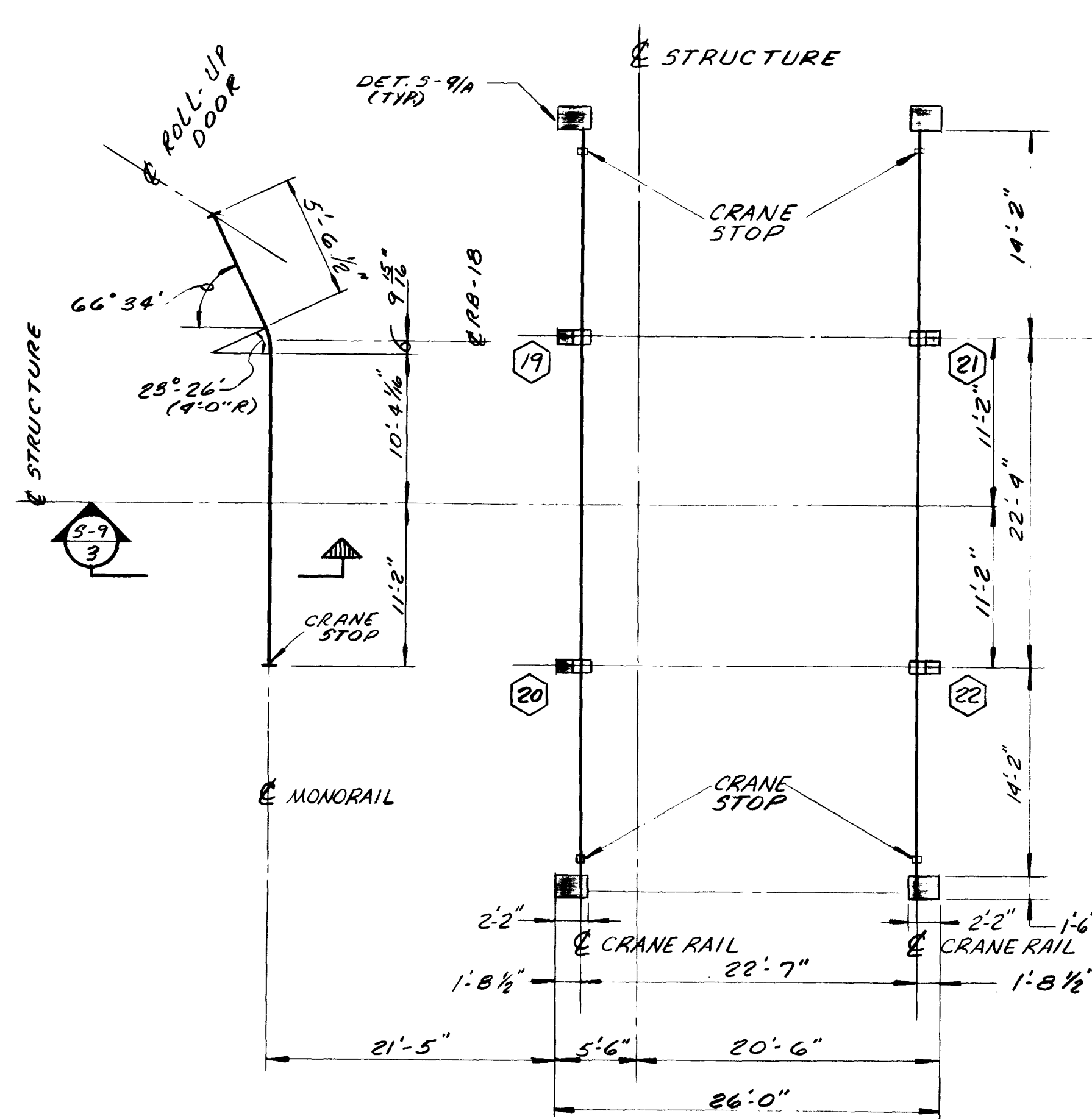


CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT
DETAILED BY: S.E.M. SCALE: AS SHOWN DATE: AUGUST 1972
CHECKED BY: L.T.H. 7205-3

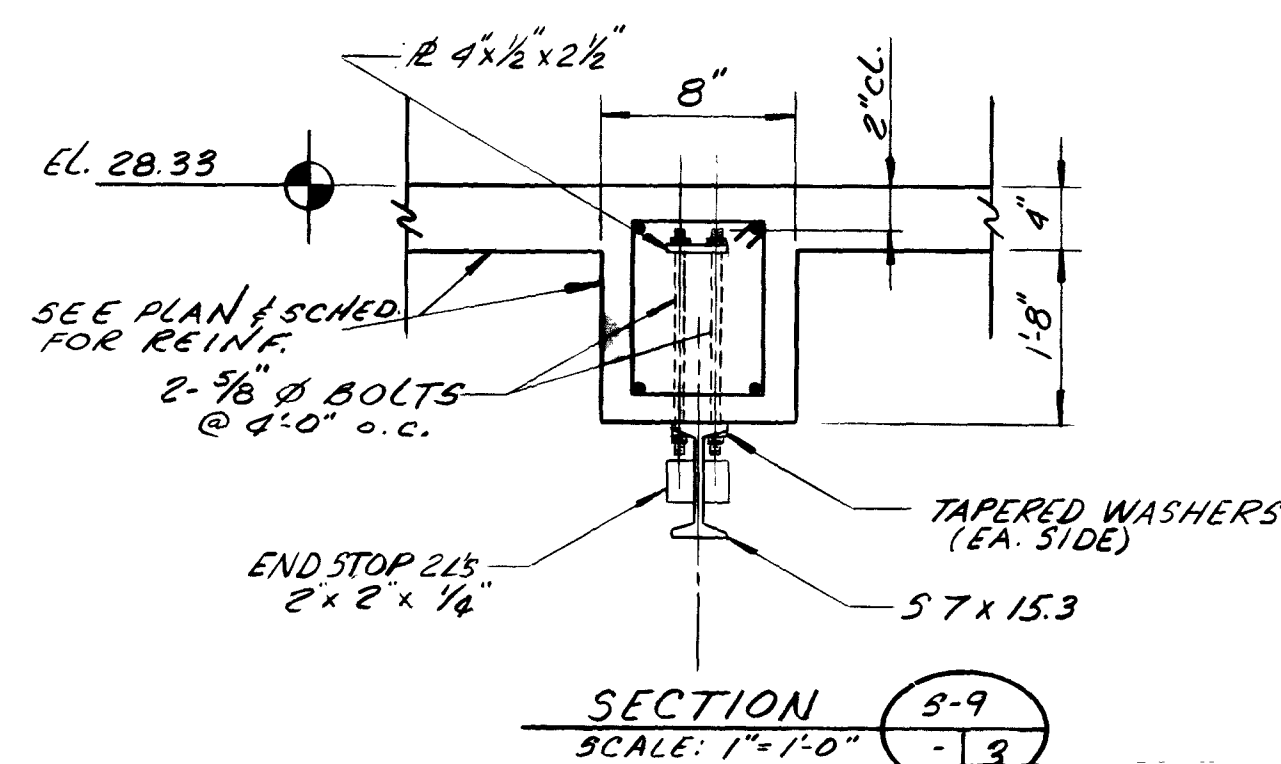
STAIR DETAILS

CONTR. NO. JS-23 PROJ. NO. 011-3 SHEET NO. 27 OF 42



DETAIL (S-9) CRANE RAIL & SUPPORTS
SCALE: 1" = 1'-0"

- NOTES:
1. FABRICATE CRANE BEAMS SO THAT MC10x6.5 & W14x22 ACT INTEGRALLY. COMPOSITE SECTION TO BE WELDED IN SHOP PER APPROVED SHOP DWG'S.
 2. CRANE RAIL SHALL BE INSTALLED IN ACCORDANCE WITH AISC "MANUAL OF STEEL CONSTRUCTION" & MFR'S RECOMMENDATIONS. SPLICES SHALL BE BOLTED WITH TIGHT JOINT FASTENINGS SHALL BE BY "FIXED" TYPE RAIL CLAMPS, PAIRED, PER MFR'S RECOMMENDATIONS, 24" O.C. MAX.



COLUMN NOTES

1. SEE PLAN FOR ORIENTATION.
2. ALL COLUMN TIES TO BE IN ACCORDANCE WITH A.C.I. MANUAL OF STANDARD PRACTICE, 315 (LATEST EDITION).
3. EACH COLUMN TIE TO CONTAIN AT LEAST FOUR (4) REINFORCING BARS.
4. ENDS OF ALL TIES TO HAVE MINIMUM 135° BEND.
5. VERTICAL COLUMN REINFORCING #7 AND SMALLER SHALL HAVE #2 TIES @ 12". #8 BARS AND LARGER SHALL HAVE #3 TIES @ 12".
6. WHERE COLUMN IS PART OF CONCRETE WALL, EXTEND COLUMN REINFORCING AND TIES THRU WALL.
7. POUR COLUMN'S INTEGRAL WITH CONCRETE WALLS.
8. TERMINATE DISCONTINUOUS VERTICAL REINFORCING WITH A 90° HOOK AND 1'-0" HORIZONTAL EXTENSION.
9. DOWEL COLUMNS INTO WALL OR SLAB BELOW. DOWELS TO MATCH VERT REINF.

COLUMN SCHEDULE				
COLUMN NUMBERS	1 3 THRU 16	2 15 19 20 21 22	23	
EL. TOP OF ROOF BEAM	28.33	28.33	28.33	
SIZE OR TYPE	12 x 12	TYPE "A"	12 x 12	
VERTICAL REINFORCING	4#6	4#7	4#6	
EL. TOP OF HAUNCH			22.42	
SIZE OR TYPE			12 x 12	
VERTICAL REINFORCING			4#7	
EL. TOP OF GROUND FL. SLAB	9.00	9.00	9.00	
REMARKS			SEE SECT. S- 1/2	SEE PLAN SHT. S-2

AS BUILT
APRIL 1977

7549

(S-9)

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT
DETAILED BY: S.E.M. SCALE AS SHOWN DATE AUGUST 1972
CHECKED BY: L.T.H. 7205-3

CRANE RAIL & MONORAIL SYSTEM
COLUMN SCHEDULE
CONTR. NO. JS-23 PROJ. NO. 011-3 SHEET NO. 28 OF 42

NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
	REVISIONS							

SUBMITTED BY: Thomas J. Flood
REG. ENGR. FLA. NO. 6634 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVED BY: [Signature]
REG. ENGR. FLA. NO. [Signature] DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

B E A M S C H E D U L E													
MARK	SIZE		REINFORCING						T I E S				REMARKS
	W	D	A	B	C	D	E	F	SIZE	SPACING	EACH	END	

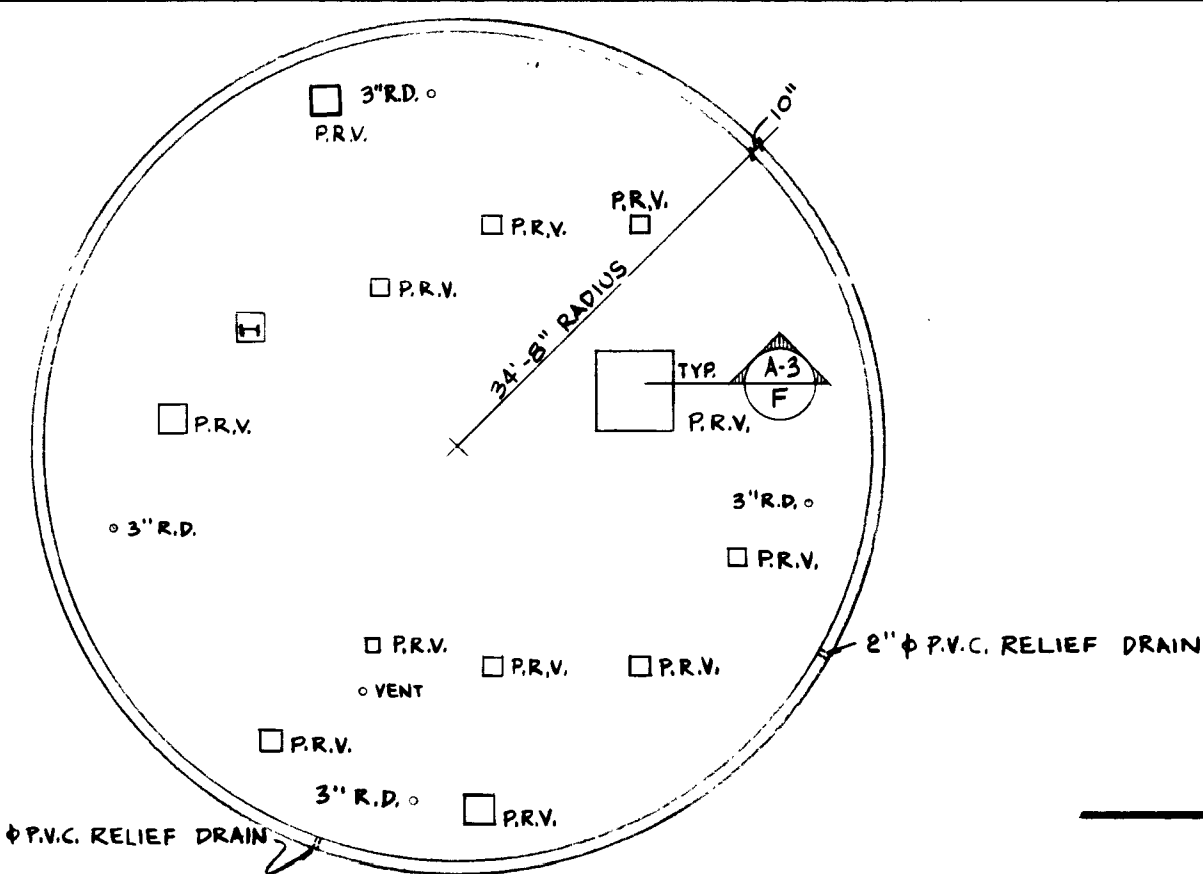
SLAB & BEAM NOTES

1. SEE SHEET S-1 FOR ADDITIONAL NOTES & BENDING DIAGRAMS

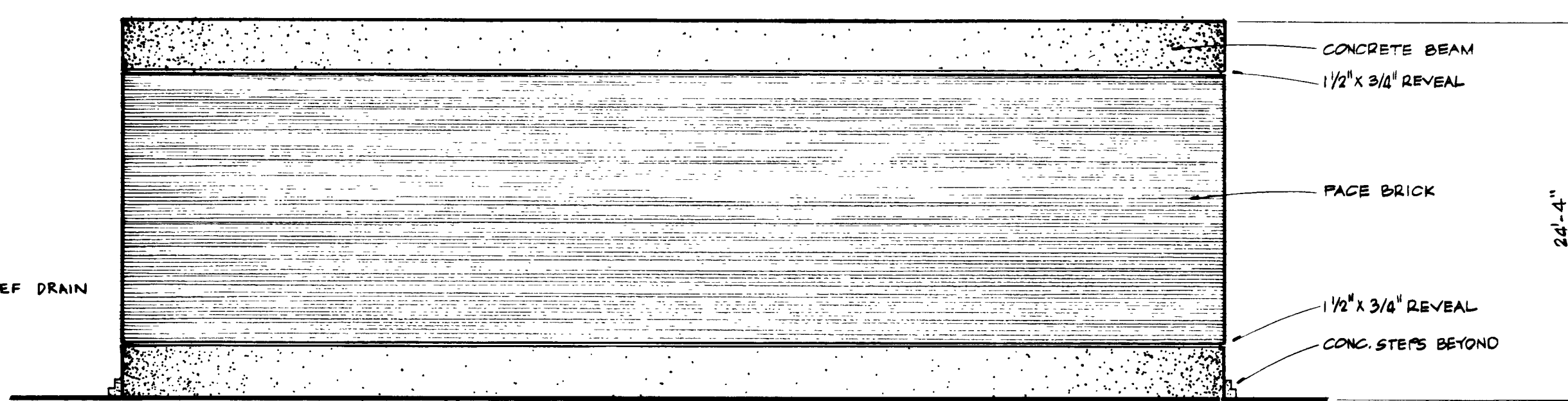
2. IN DIAGRAM READING FROM SOUTH TO NORTH OR WEST TO EAST "E" BARS ARE PLACED IN NORTH OR EAST END OF BEAM OR SLAB IN WHICH THEY ARE SCHEDULED

3. REINFORCING IN BEAMS OR SLABS RUNNING IN WEST TO EAST DIRECTION SHALL BE PLACED IN OUTER LAYER AT INTERSECTION WITH BEAMS OR SLABS RUNNING IN SOUTH TO NORTH DIRECTION.

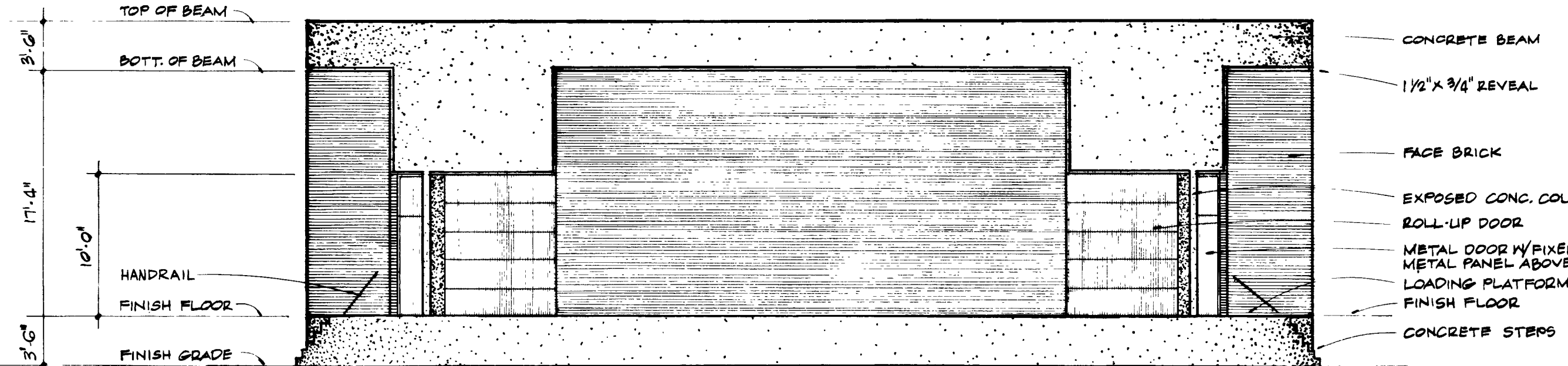
S L A B S C H E D U L E															
MARK	DEPTH	R E I N F O R C I N G												REMARKS	
		NORTH-SOUTH DIRECTION						EAST-WEST DIRECTION							
		A	B	C	D	E	F	A	B	C	D	E	F		
		GROUND FLOOR SLABS													
S-1	6	#4@9½		#3@9				#4@9½	#3@9				#4@9½	#3@9	
S-2	6	#3@9		#3@9				#4@12					#3@9	#3@9	
S-3	6	#3@9		#3@9				#3@9					#6@8	#3@9	OMIT "E" BARS @ S-7A
S-4	6	#3@9	#3@9	#3@9				#3@9					#3@9		N-S "B" BARS @ OPNG. ONLY
S-5	6	#3@9	#3@9	#3@9				#3@9					#3@9		N-S "B" BARS @ OPNG. ONLY
S-6	6	#4@12			#4@7½			#4@12		#3@9				#3@9	
S-7	6	#3@9					#3@9	#3@9				#6@8			
S-8	6	#3@9					#3@9	#3@9				#6@8			
S-7A	6	#3@9				#4@9½	#3@9	#3@9				#6@8			
S-8A	6	#3@9				#4@9½	#3@9	#5@9				#6@8			
S-9	6	#4@8			#5@8			#4@12					#6@8		
S-10	6	#3@9						#3@9				#4@9½			
S-11	6	#3@9	#3@9			#3@9		#3@9				#4@12			
S-12	6	#3@9				#3@9		#3@9					#3@9		
S-13	6	#3@9	#3@9					#3@9					#5@8		
S-13A	6	#3@9		#3@9				#3@9					#5@8		
S-14	6	#5@10½						#6@8	#3@9	#3@9					E-W "B" & "C" BARS @ OPNG. ONLY
S-15	6	#3@9	#3@9				#3@9	#3@9			#4@6				
S-16	6	#4@9½	#3@9					#3@9	#3@9	#3@9					
S-17	6	#3@9	#3@9			#3@9						#5@7½	#3@9		OMIT E-W "E" BARS @ S-7 E-W "B" BARS @ STAIR OPNG ONLY
S-18	6	#3@9			#5@8			#5@10½				#5@6			
S-19	6	#4@12	#3@9	#4@12		#4@7½		#4@9½		#3@9			#3@9		N-S "C" BARS @ STAIR ONLY. OMIT "E" BARS
S-20	6	#4@9½	#3@9	#3@9				#4@6	#3@9			#4@8			
S-21	6	#3@9	#3@9	#3@9		#4@9½		#4@12				#4@9½			N-S "C" BARS @ OPNG. OMIT "E" BARS
S-22	6	#3@9	#3@9	#3@9		#4@9½		#4@12				#4@12			N-S "C" BARS @ OPNG. OMIT "E" BARS



ROOF PLAN
SCALE: 1/16" = 1'-0"



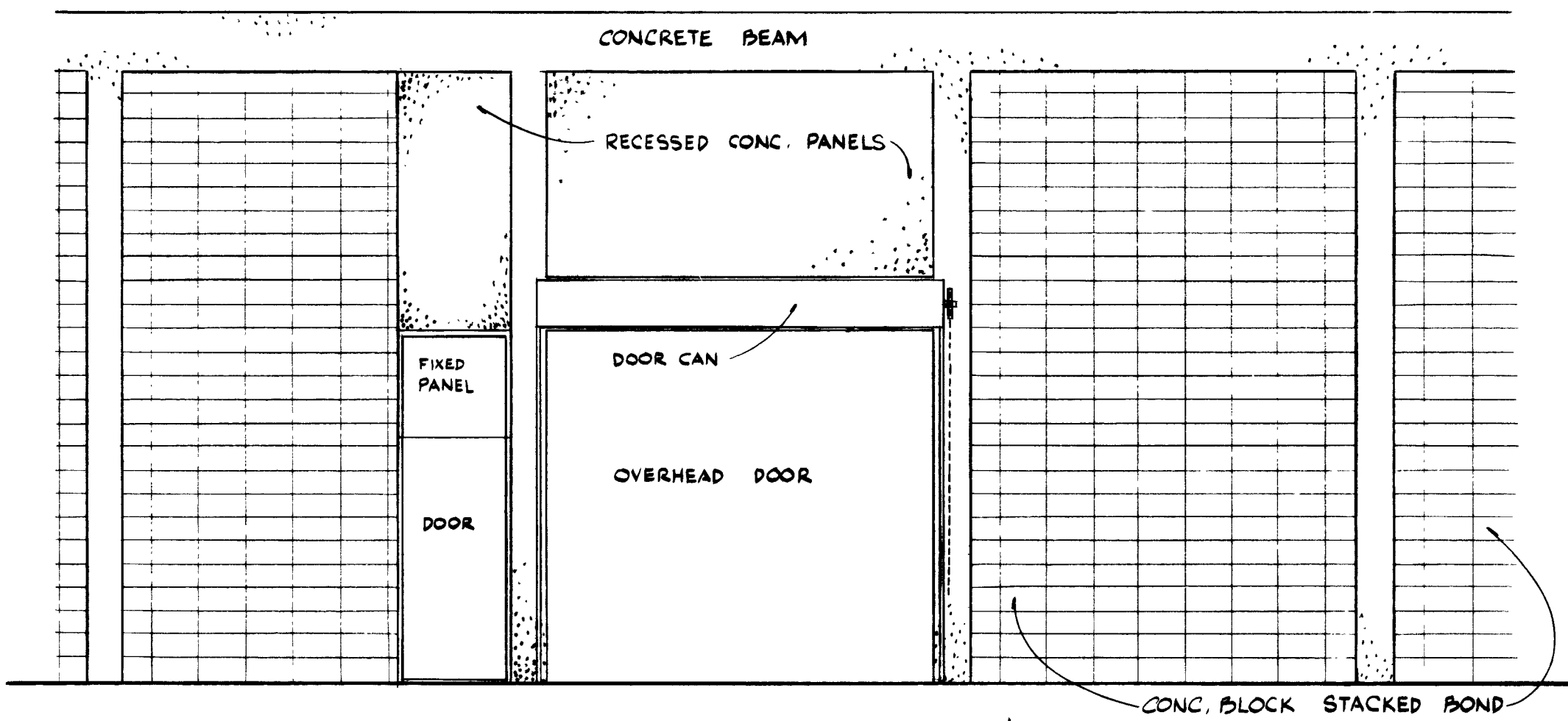
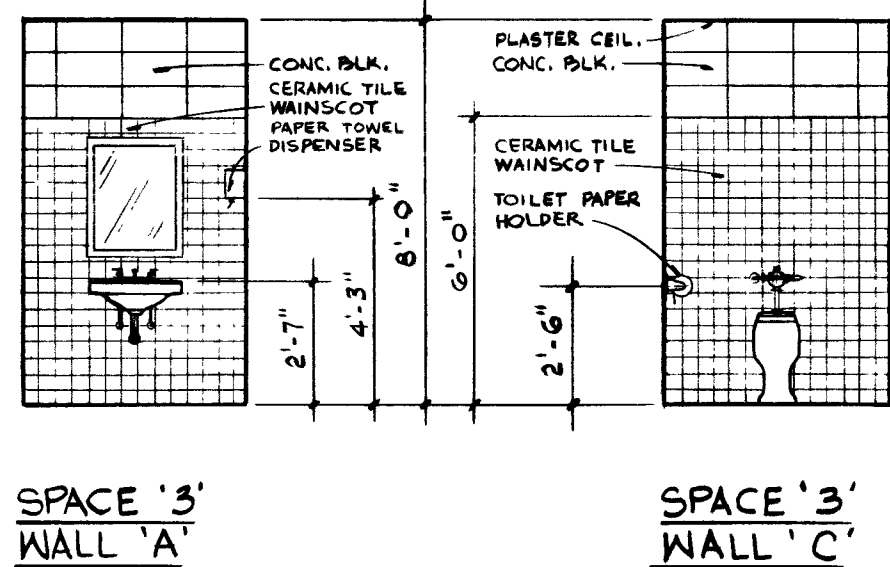
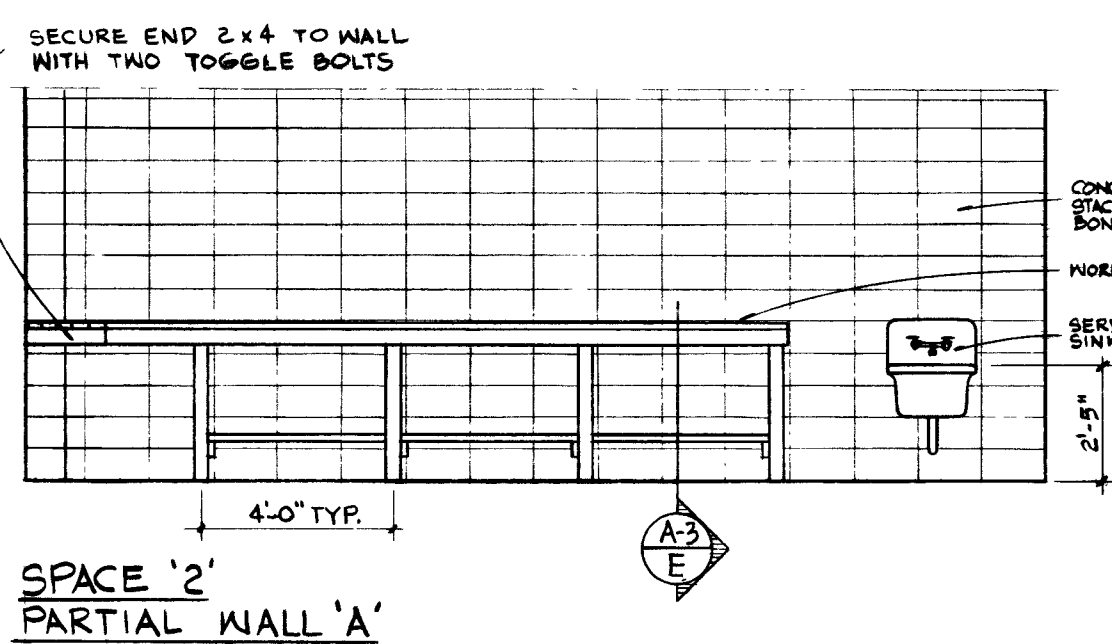
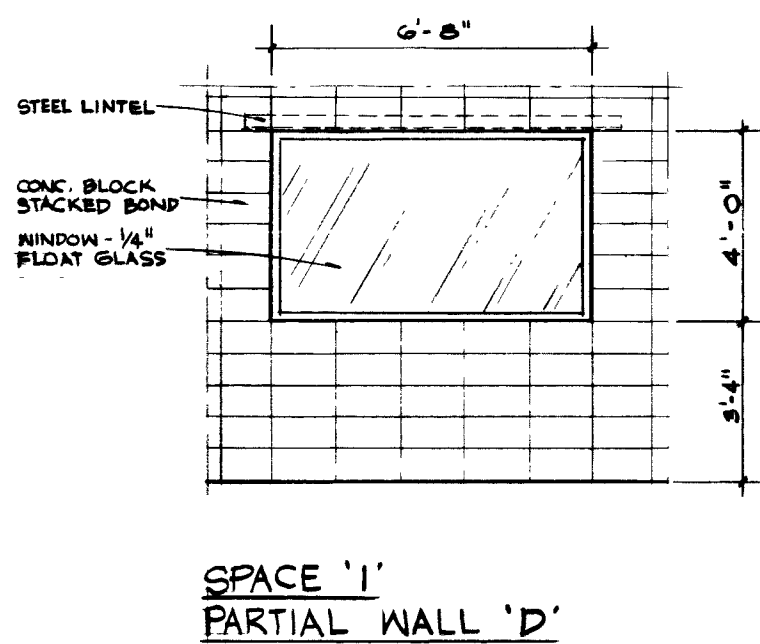
ELEVATION "B"
SCALE: 1/8" = 1'-0"



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

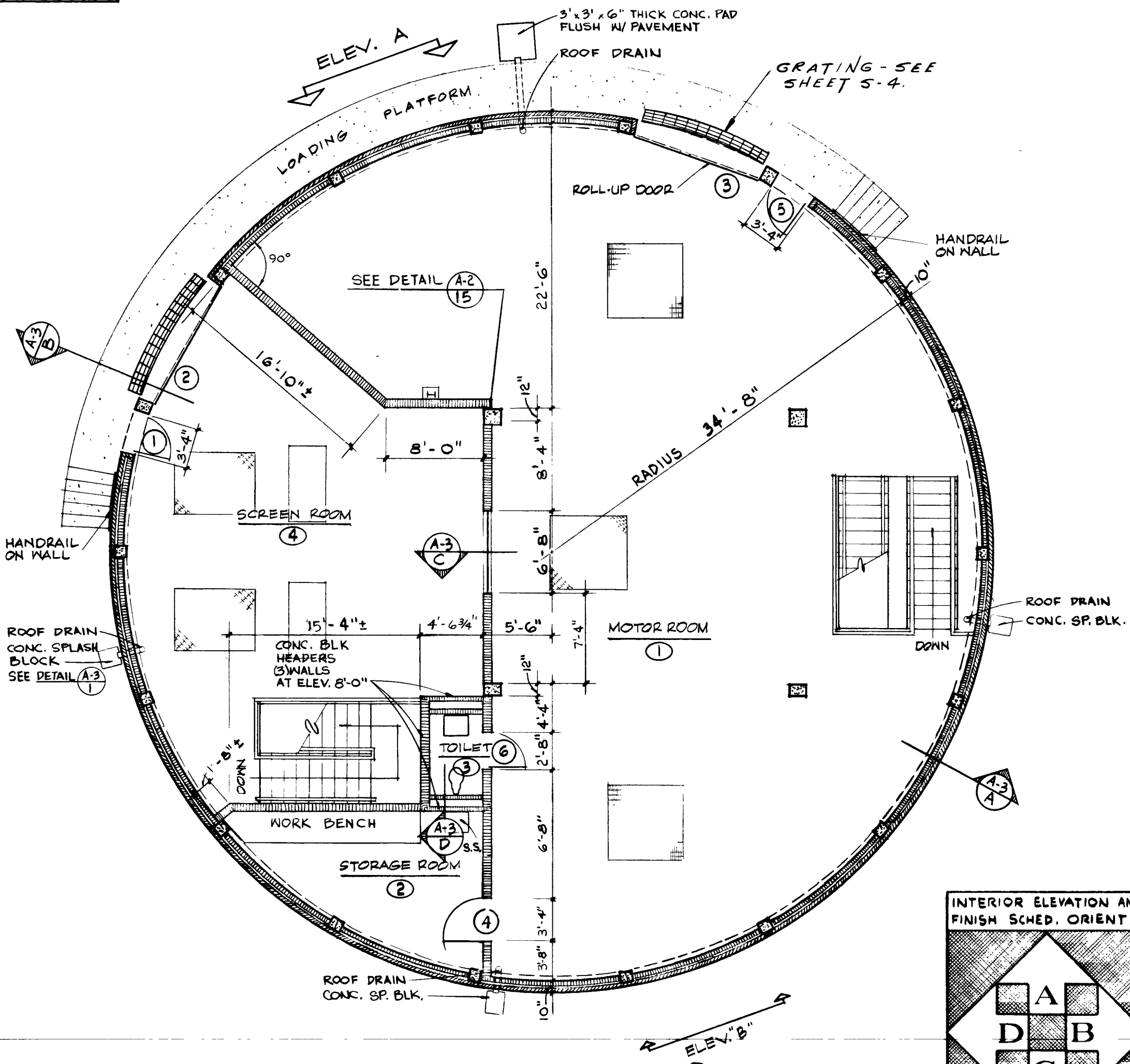
DOOR SCHEDULE									
NO.	OPNG. SIZE	TYPE	MAT'L.	DETAILS			LOUVER SIZE	HW. GROUP	REMARKS
				HEAD	JAMB	SILL			
1	3'-0" x 9'-10"	A	ALUM.	A-2/5*	A-2/3	A-2/8		1	*2'-10" FIXED PANEL (A-2/G)
2	10'-4" x 10'-0"	B	ALUM.	A-2/1	A-2/2*	A-2/4			CHAIN OPERATED ROLL-UP
3	10'-4" x 10'-0"	B	ALUM.	A-2/1	A-2/2*	A-2/4			CHAIN OPERATED ROLL-UP
4	3'-0" x 7'-0"	C	ALUM.	A-2/12	A-2/13	A-2/14	12" x 24"	3	
5	3'-0" x 9'-10"	A	ALUM.	A-2/5*	A-2/3	A-2/8		1	*2'-10" FIXED PANEL (A-2/G)
6	2'-4" x 7'-0"	C	ALUM.	A-2/12	A-2/13	A-2/14		2	

FINISH SCHEDULE									
NO.	SPACE DESCRIPTION	FLOOR	BASE	WALLS				CEIL.	REMARKS
				A	B	C	D	HEIGHT	
1	MOTOR ROOM	CONC.		CONC. BLK.	CONC. BLK.	CONC. BLK.	CONC. BLK.	CONC. 19'-0"	CONC. ABOVE DOOR
2	STORAGE ROOM	CONC.		CONC. BLK.	CONC. BLK.	CONC. BLK.	CONC. BLK.	CONC. 19'-0"	
3	TOILET	C. TILE	C. TILE	C. TILE	C. TILE	C. TILE	C. TILE	PLASTER 8'-0"	C. TILE WALLS TO 6'-0"
4	SCREEN ROOM	CONC.		CONC. BLK.	CONC. BLK.	CONC. BLK.	CONC. BLK.	CONC. 19'-0"	



TYPICAL PERSONELL DOOR, TYPICAL OVERHEAD DOOR & TYPICAL BAY
INTERIOR WALLS NOT SHOWN FOR CLARITY

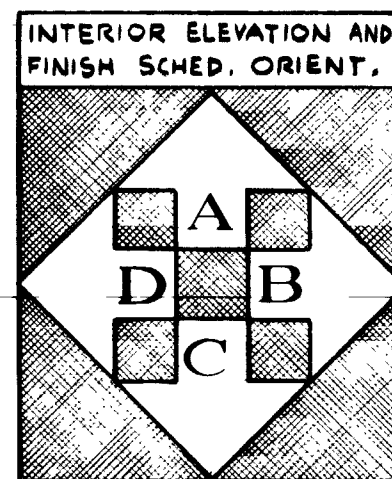
INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



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

AS BUILT
APRIL 1977

7551



NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
	REVISIONS							

SUBMITTED BY: <i>[Signature]</i>	DATE: 10/12
REG. ENGR. FLA. NO. 2960	FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: <i>[Signature]</i>	DATE: 2/73
REG. ENGR. FLA. NO. 9663	OFFICE OF DIRECTOR OF PUBLIC WORKS
SVERDRUP & PARCEL AND ASSOCIATES, INC.	CITY OF JACKSONVILLE, FLORIDA

APPROVED BY: <i>[Signature]</i>	DATE: 2/73
REG. ENGR. FLA. NO. 6662	OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA	

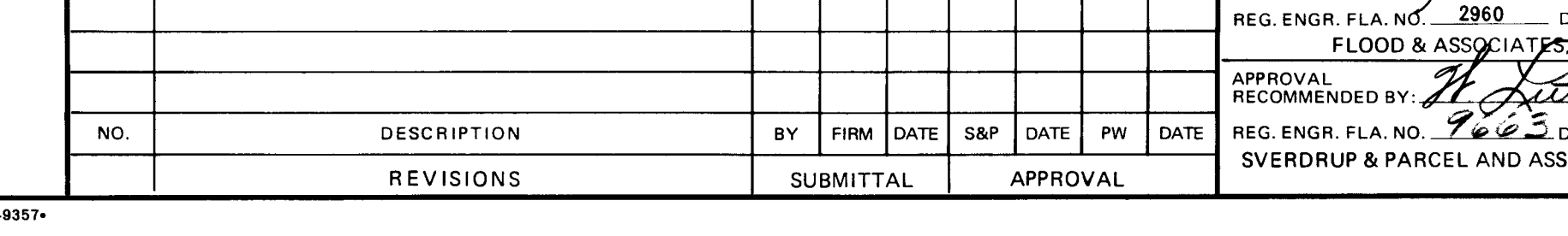
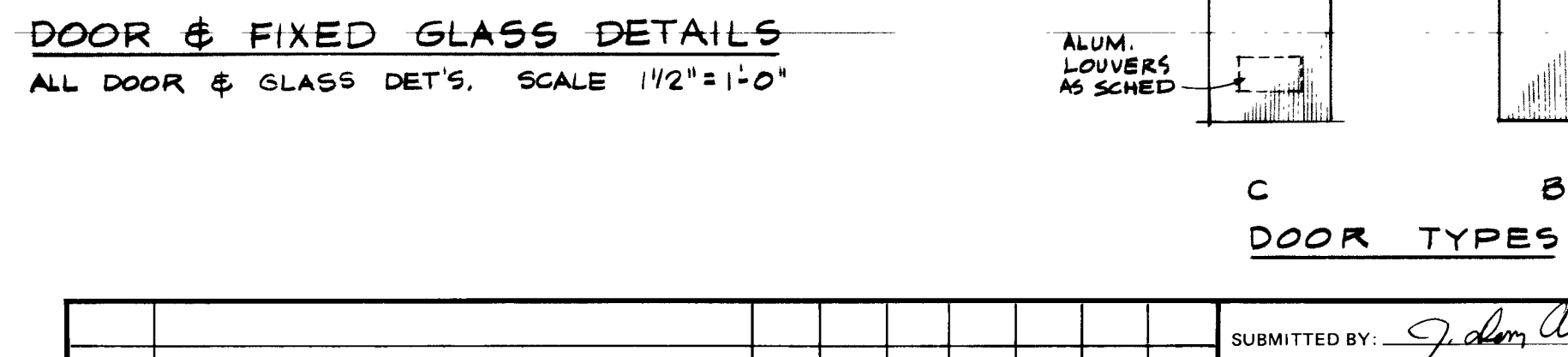
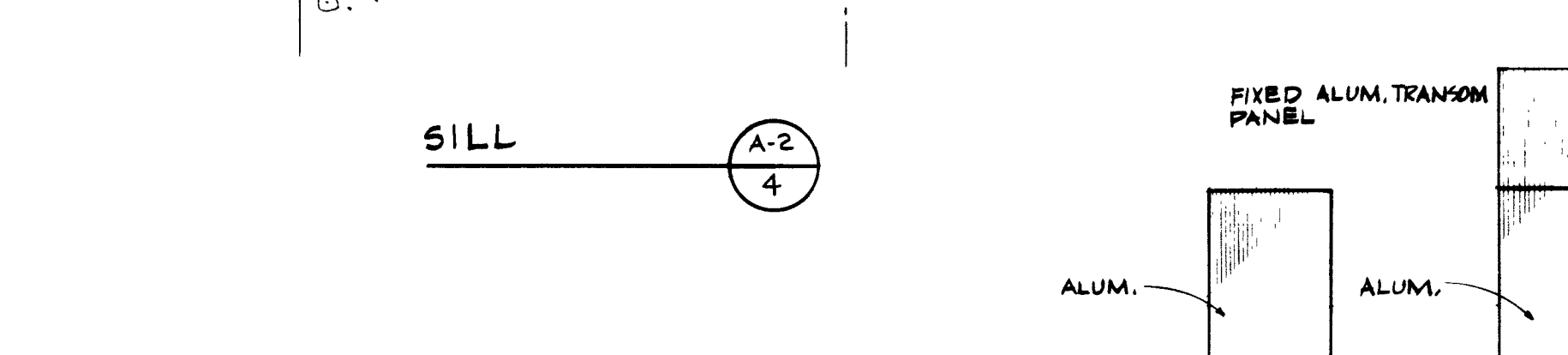
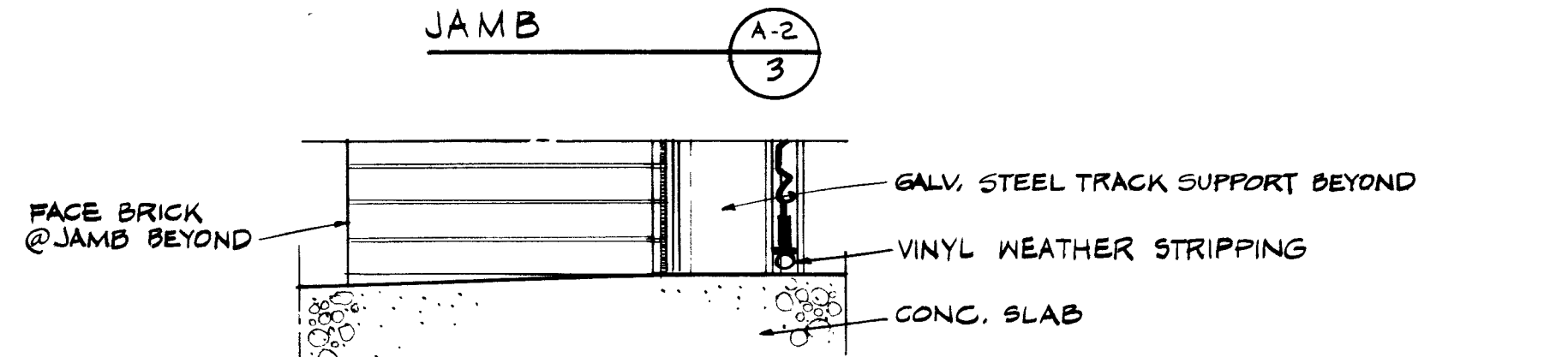
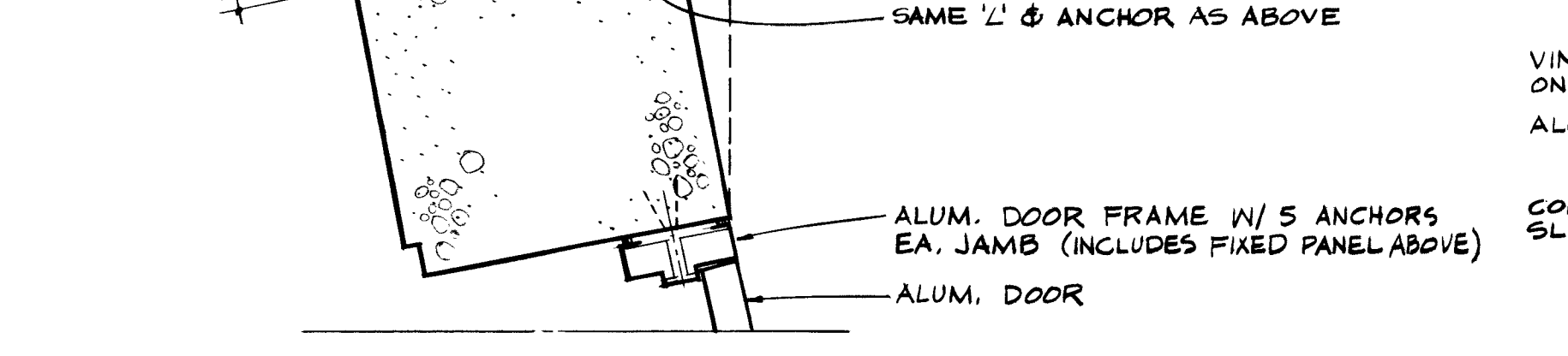
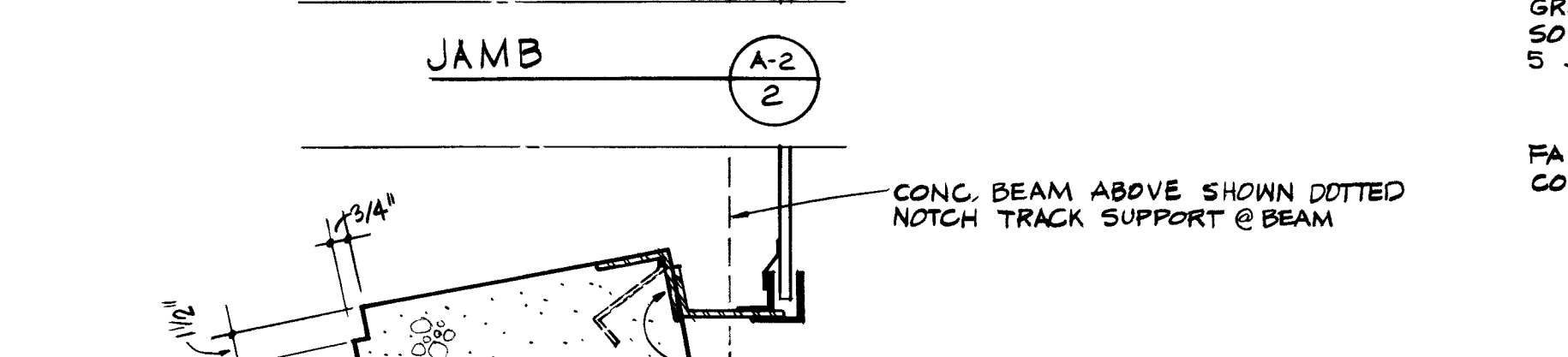
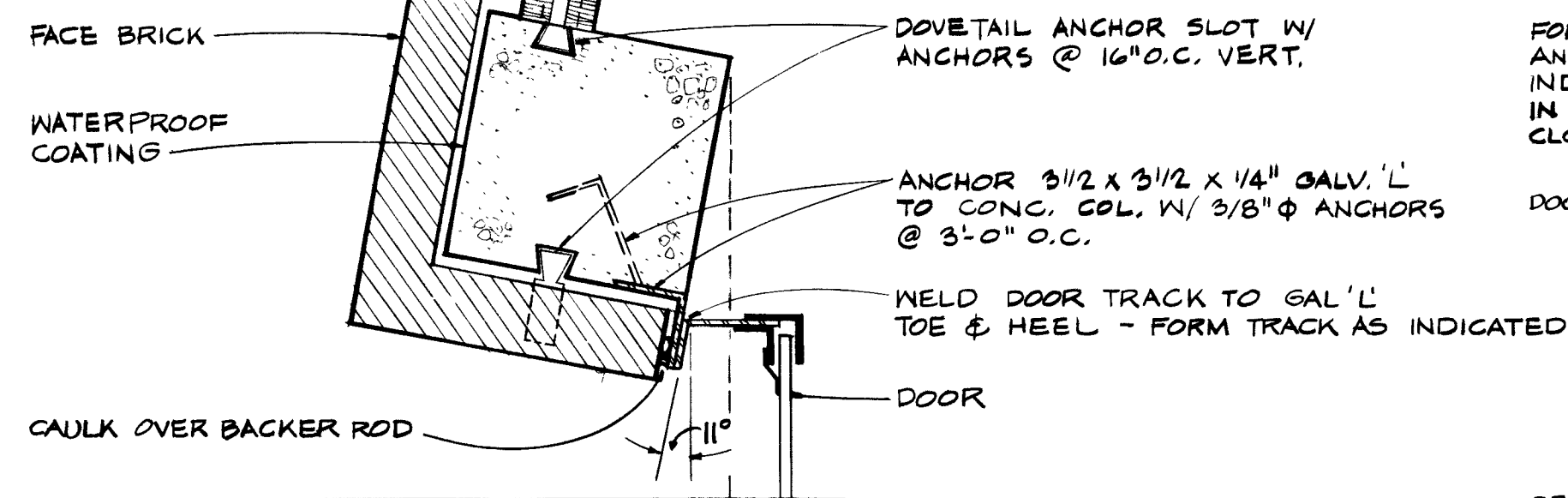
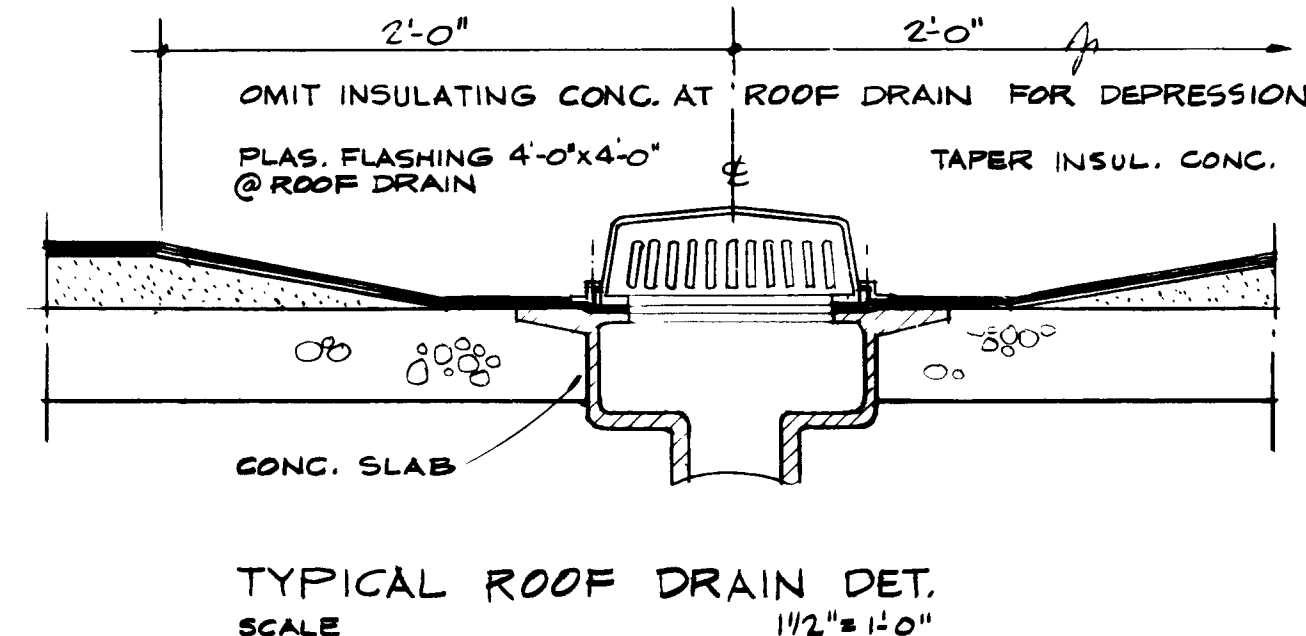
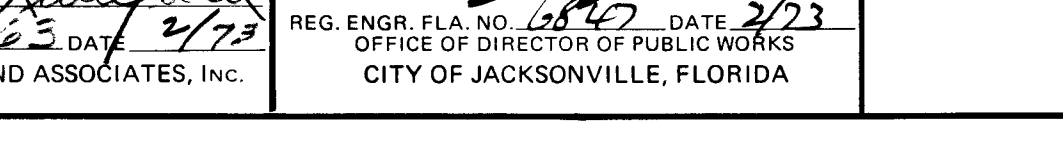
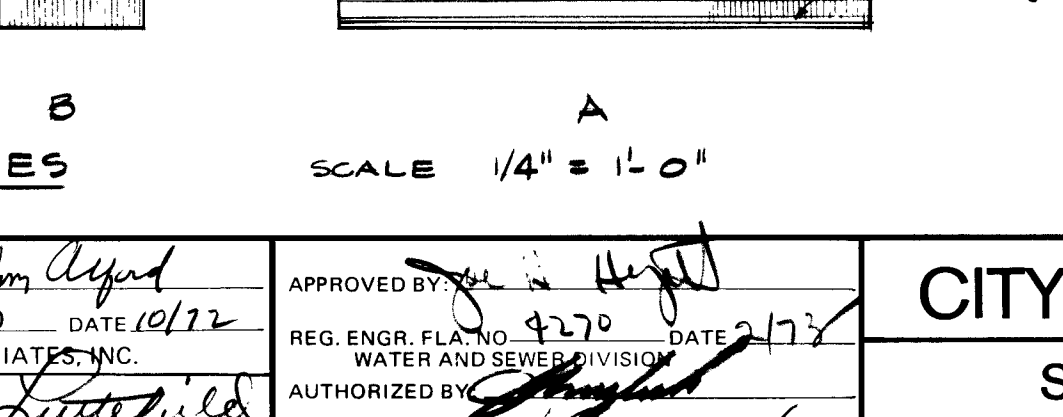
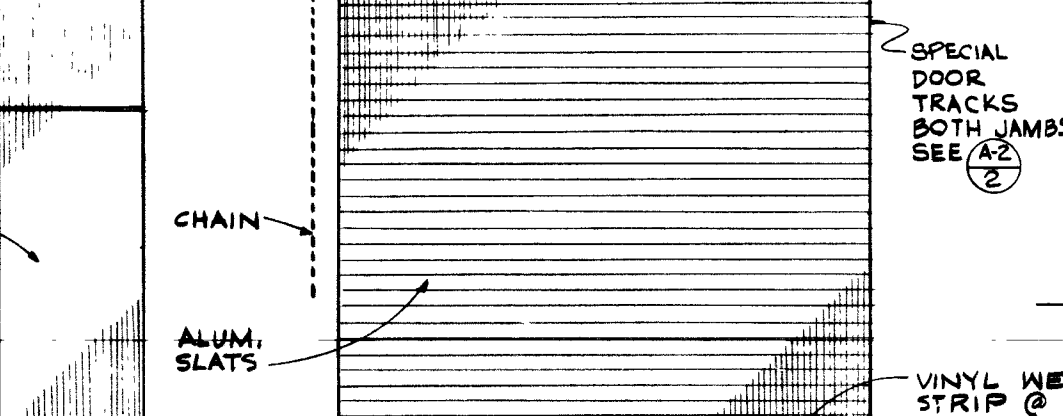
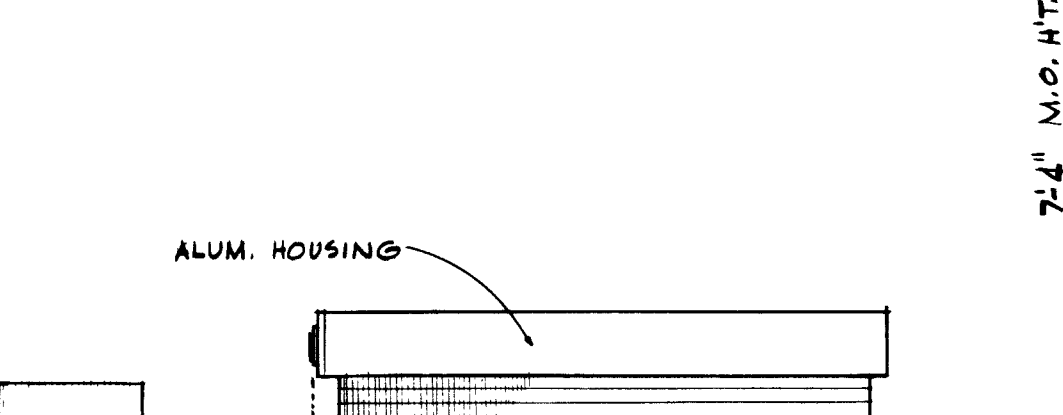
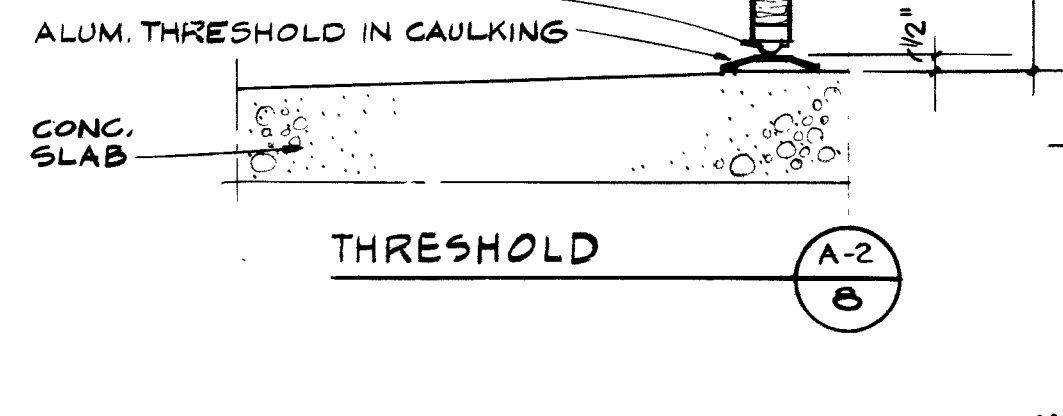
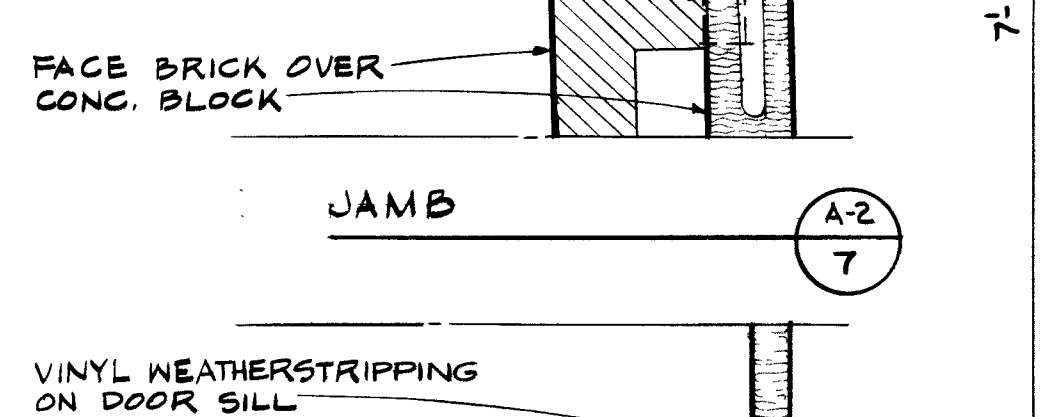
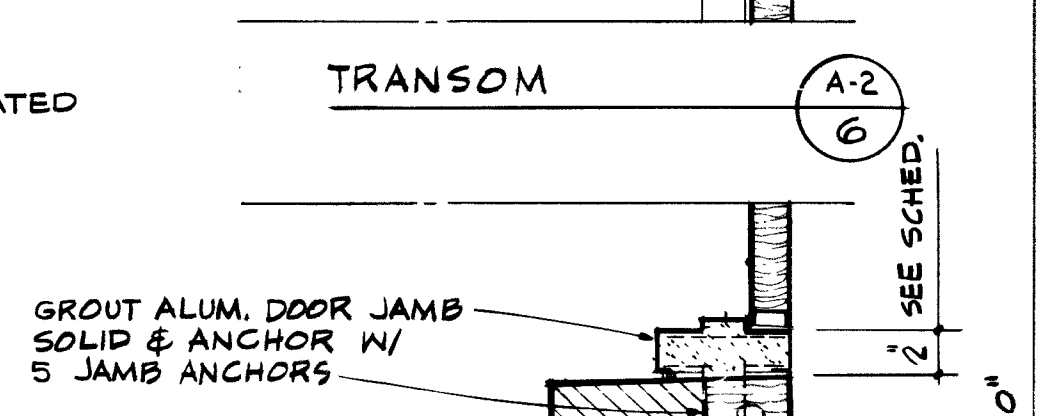
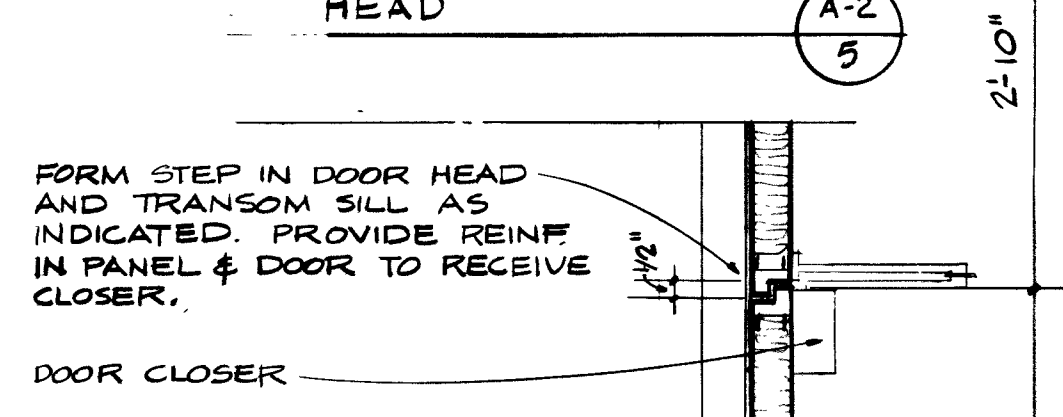
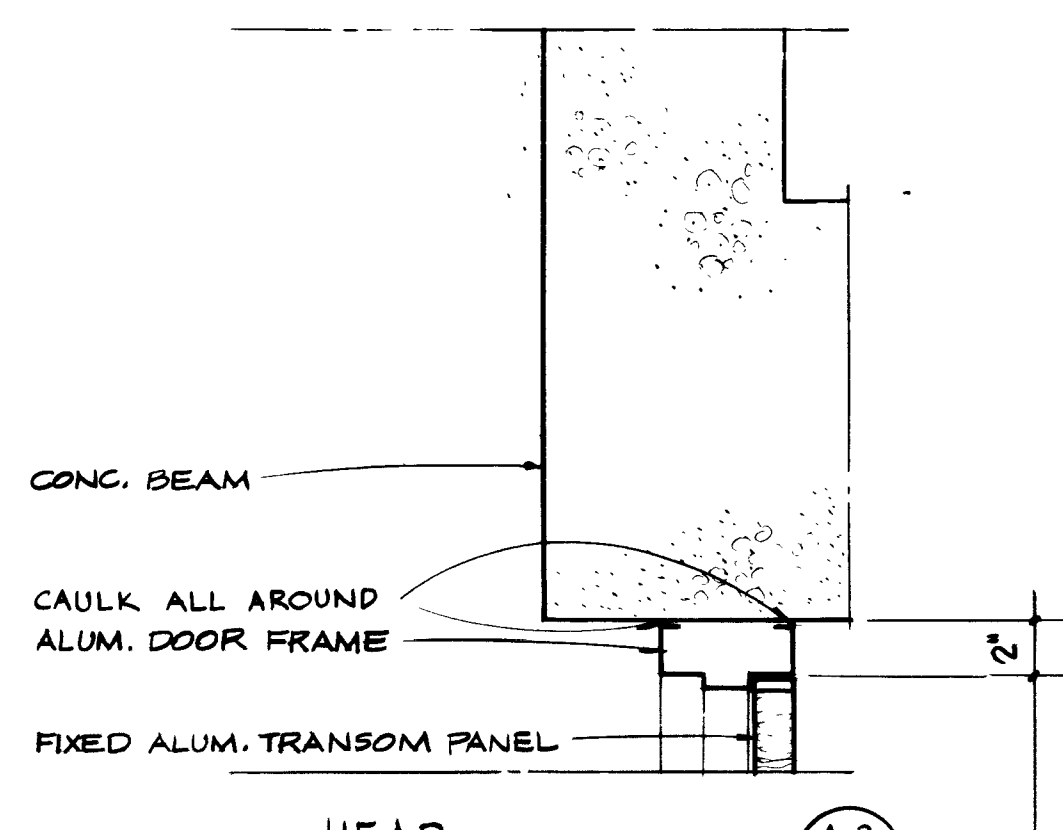
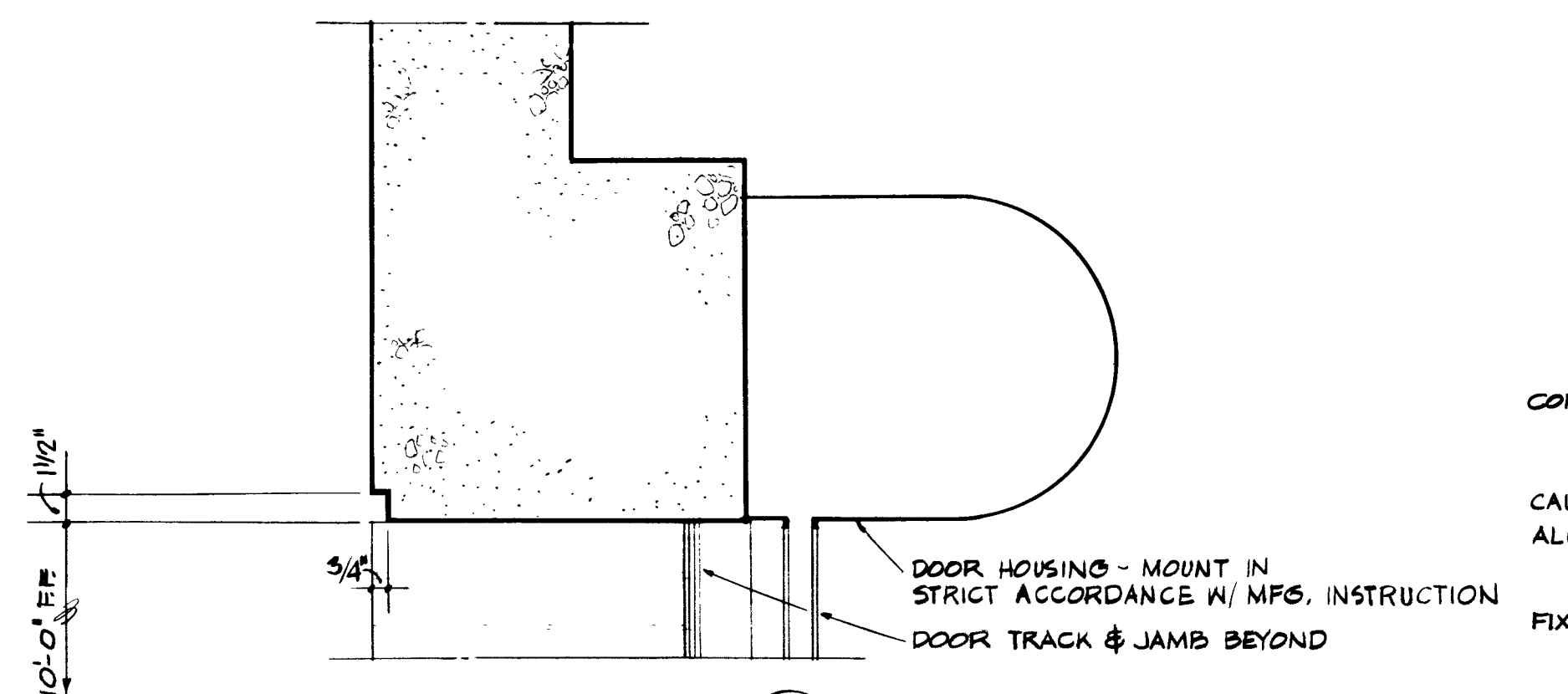
CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

FLOOD & ASSOCIATES, INC.	DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC.	GENERAL CONSULTANT
DETAILED BY: SBD	SCALE AS SHOWN
CHECKED BY: JDA	DATE AUGUST 1972

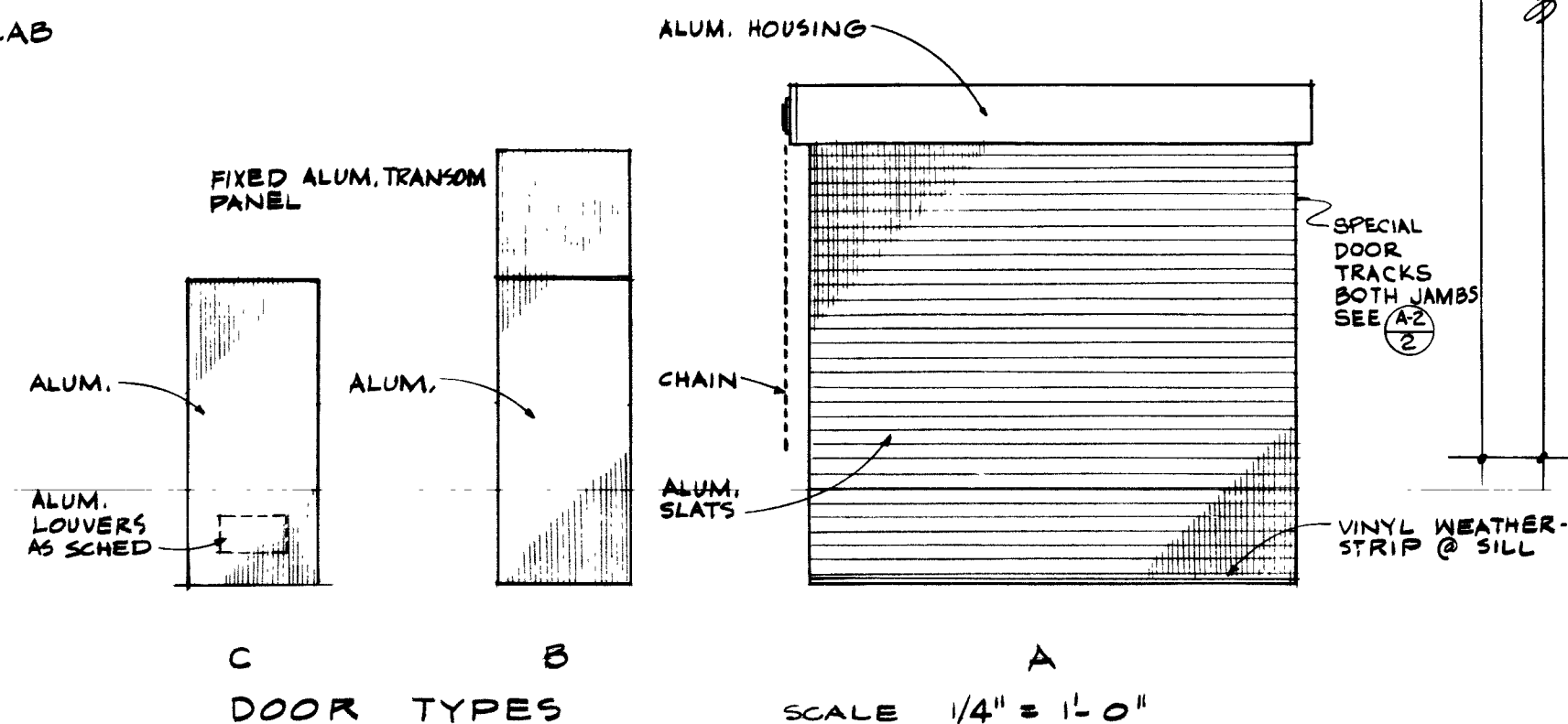
PLAN, ELEVATIONS & SCHEDULES

A-1

CONTR. NO. JS-22 PROJ. NO. 011-4 SHEET NO. 30 OF 42



DOOR & FIXED GLASS DETAILS
ALL DOOR & GLASS DET'S. SCALE 1/2" = 1'-0"



CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT
DETAILED BY: SBD
CHECKED BY: JDA
SCALE AS SHOWN
7206
DATE AUGUST 1972

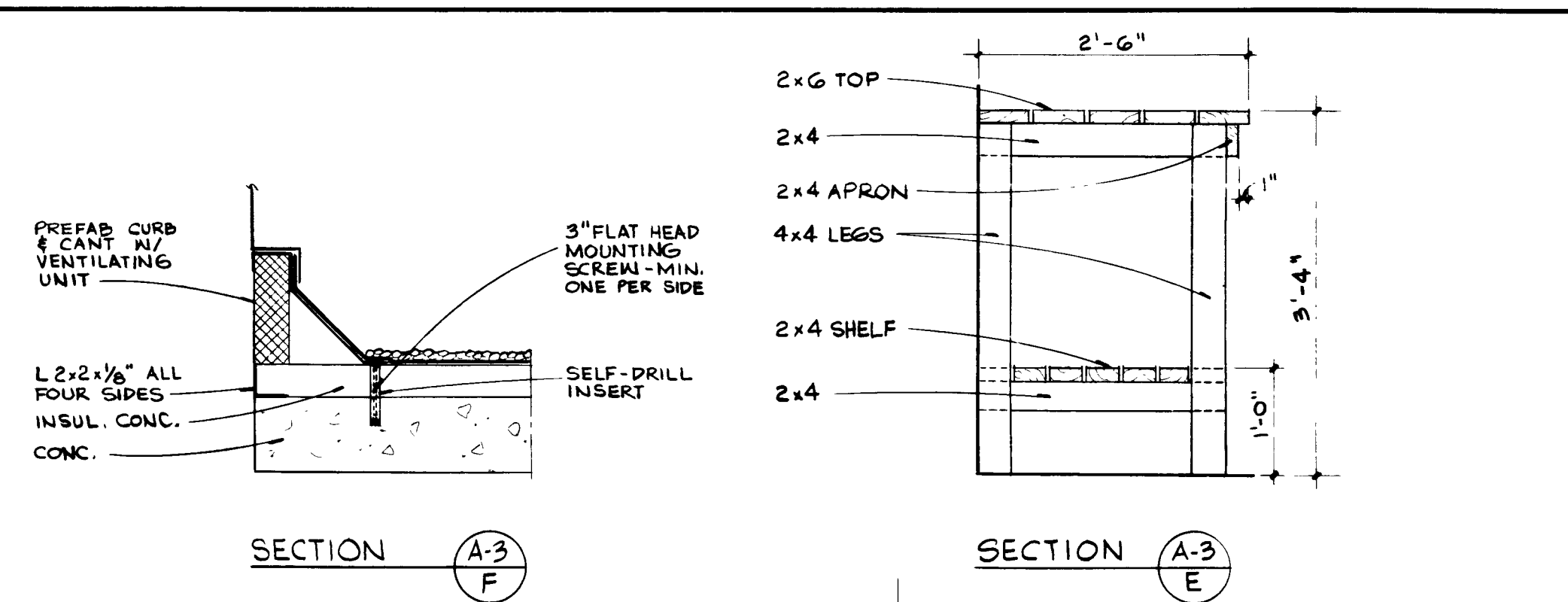
SECTIONS & DETAILS

CONTR. NO. JS-22
PROJ. NO. 011-4
SHEET NO. 31 OF 42

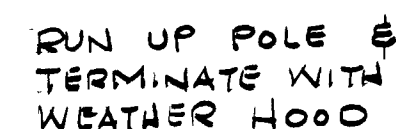
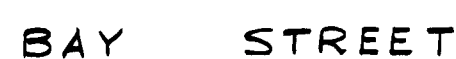
AS BUILT
APRIL 1977

A-2

7552



										SUBMITTED BY <u>J. don O'neal</u> REG ENGR. FLA. NO. <u>2980</u> DATE <u>2/12</u> FLOOD & ASSOCIATES, INC. APPROVAL RECOMMENDED BY <u>H. J. Hagan</u> REG ENGR. FLA. NO. <u>9663</u> DATE <u>2/73</u> SEVERDRUP & PARCEL AND ASSOCIATES, INC.		APPROVED BY <u>H. J. Hagan</u> REG. ENGR. FLA. NO. <u>2275</u> DATE <u>2/73</u> AUTHORIZED BY <u>H. J. Hagan</u> REG ENGR. FLA. NO. <u>6245</u> DATE <u>2/73</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA		CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM PHASE 2 HOGANS CREEK PUMPING STATION		FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT SEVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT DETAILED BY <u>SBD</u> SCALE <u>AS SHOWN</u> DATE <u>AUGUST 1972</u> CHECKED BY <u>JDA</u> 7206		APRIL 1977 SECTIONS & DETAILS CONTR. NO. <u>JS-22</u> PROJ. NO. <u>011-4</u> SHEET NO. <u>32</u> OF <u>42</u>	
NO	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE											
REVISIONS		SUBMITTAL		APPROVAL															



13.8 KVA SUBSTATION
SEE DRAWING E-2

STUB OUT 2' BEYOND
PROPERTY LINE & CAP

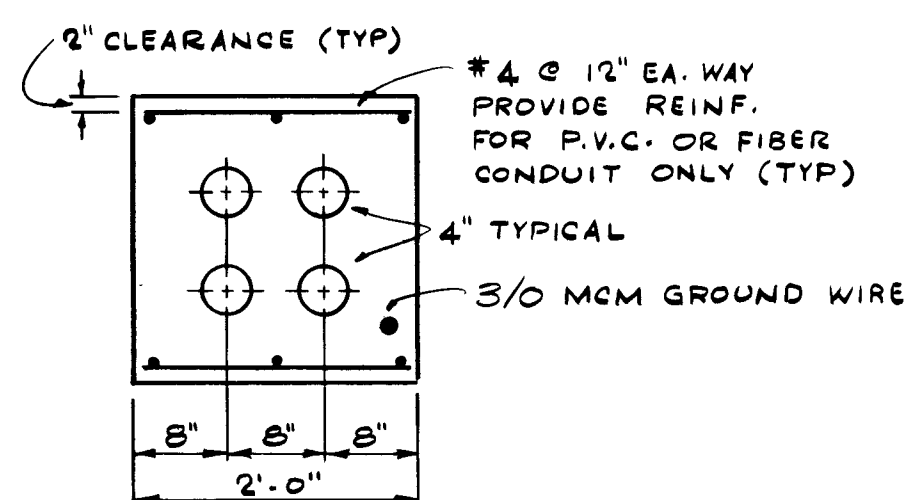
1" C W/PULL WIRE
FOR TELEPHONE

P.O.C. - R →

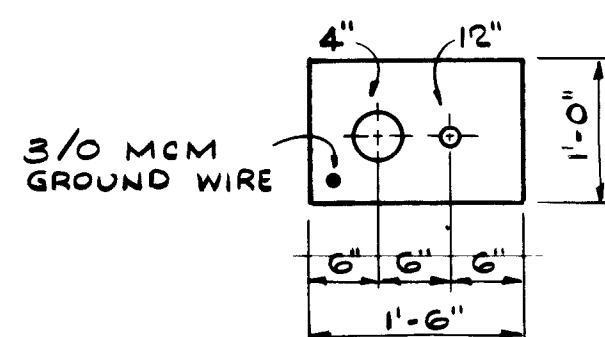
HOGAN CREEK

ELECTRICAL SITE PLAN

SCALE : 1" = 20'



SECTION A-A



SECTION E.B

- ## LEGEND
- | | |
|--------|--|
| AA | AUTOMATIC ALTERNATOR HEALY - RUFF MODEL 7 AUTO-TROL |
| AX | AUXILIARY RELAY |
| HOA | HAND OFF AUTOMATIC SWITCH |
| LW | LOW LEVEL CUT OFF DEVICE CONTACT IN LIQUID LEVEL CONTROL |
| PA | START-STOP SWITCH, MOMENTARY CONTACT TYPE |
| PBM | START-STOP SWITCH, MAINTAINING CONTACT TYPE |
| PC | PILOT CONTACT DEVICE CONTACT IN LIQUID LEVEL CONTROL |
| S | SELECTOR SWITCH (MANUAL ALTERNATOR) |
| 'S O' | SAFE OFF SWITCH WITH LOCK OUT LATCH |
| S V | SOLENOID VALVE |
| TS | TIME SWITCH |
| AC | AMPLI SPEED CONTROL UNIT |
| A | AMMETER |
| AS | AMMETER SWITCH |
| F | FREQUENCY METER |
| FS | FLOAT SWITCH |
| ET | ELAPSED TIME INDICATOR (HOURS OF OPERATION) |
| HS | HAND SPEED CONTROL RHEO STAT |
| SI | SPEED INDICATOR |
| TD | TIME DELAY RELAY ALLEN BRADLEY ADJUSTABLE 0 TO 12 MIN. |
| VS | VOLTMETER SWITCH |
| WM | INDICATING WATT METER |
| R | INDICATES LIGHTS R = RED (STOP) G = GREEN (RUNNING) B = BLUE (AS NOTED) W = WHITE (AS NOTED) A = AMBER (ALARM) |
| G | INDICATES ASSOCIATED DEVICE REMOTE FROM CONTROL CENTER (USUALLY AT MOTOR) |
| N | INDICATES ASSOCIATED DEVICE ON INSTRUMENTATION CONTROL PANEL |
| P | INDICATES ASSOCIATED DEVICE IN MOTOR CONTROL CENTER |
| PS | PRESSURE SWITCH |
| PBML | SAME AS PBM WITH LOCKING DEVICE |
| PBL | SAME AS PB WITH LOCKING DEVICE |
| CA | COMMON ALARM IN INSTRUMENTATION CONTROL PANEL (ANNUNCIATOR) |
| IE | KEY INTERLOCK - MECH & ELECTRIGALLY |
| LS | LIMIT SWITCH |
| CB | CIRCUIT BREAKER, MOLDED CASE TYPE, THERMAL MAGNETIC TRIP, UPPER NUMERAL INDICATES FRAME SIZE, LOWER INDICATES TRIP SETTING |
| FVNR | FULL VOLTAGE, NON-REVERSING MAGNETIC MOTOR STARTER, NEMA SIZE INDICATED |
| SIZE 1 | (PROVIDE STARTERS, CJB, & INDICATOR LIGHTS FOR FUTURE EQUIPMENT) |
| RVNR | REDUCED VOLTAGE, NON-REVERSING AUTO TRANSFORMER TYPE STARTER |
| SIZE 4 | NEMA SIZE INDICATED |
| PT | POWER TRANSFORMER |
| PT | POTENTIAL TRANSFORMER |
| CT | CURRENT TRANSFORMER |
| HP | MOTOR NUMERAL INDICATES HORSEPOWER |
| CU | CONDUIT UP AND DOWN |
| CC | CONDUIT RUNS CONCEALED |
| CE | CONDUIT RUNS EXPOSED |
| CU | CONDUIT TURNING UP OR TOWARD OBSERVER |
| CD | CONDUIT TURNING DOWN OR AWAY FROM OBSERVER |
| A | HOME RUNS TO PANEL. NUMBER OF ARROWS DENOTES NUMBER OF CIRCUITS. |
| 2 | ALL LIGHTING CIRCUIT WIRING SHALL BE #12 AWG UNLESS OTHERWISE NOTED. |
| 2 | CEILING MOUNTED INCANDESCENT FIXTURES, TYPE "A" CONNECTED TO CIRCUIT 2 AND SWITCH "d" |
| 2 | WALL MOUNTED INCANDESCENT FIXTURE |
| 2 | CEILING MOUNTED FLOURESCENT FIXTURE |
| XP | WALL RECEPTACLE CONNECTED TO CIRCUIT 8, DUPLEX GROUNDING TYPE UNLESS OTHERWISE NOTED |
| XP | WATERTIGHT EXPLOSION PROOF |
| XP | FLOOD LIGHTING FIXTURE |
| 5a | SINGLE POLE SWITCH, CONTROLS FIXTURES MARKED "a" |
| 5aW | SINGLE POLE SWITCH, WEATHERPROOF CONTROLS FIXTURES MARKED "a" |
| 5aX | SINGLE POLE SWITCH, EXPLOSION PROOF CONTROLS FIXTURES MARKED "a" |
| 5aX | PANEL BOARD 277/480 V. 3ø 4W |
| 5aX | PANEL BOARD 120/280 V. 1ø 3W |
| ES | EMERGENCY STOP SWITCH |
| MS | MANUAL MOTOR STARTER |
| P | WIRING CONCEALED IN SLAB OR BELOW GRADE |
| P | AREA FIXTURES REVERSE ISLAND LIGHT |
| TE | TELEPHONE OUTLET PROVIDE 1" EMPTY CONDUIT FROM EA. OUTLET |
| TE | SPECIAL PURPOSE OUTLET |
| P | PRIMARY CABLE AND CONDUIT |
| MD | MOTOR DRIVEN HORN |
| SL | STREET LIGHT, WESTINGHOUSE "OV - 25" WITH BUILT IN FUSED BALLAST 480 VOLT-400 WATT H33-1GL - CIE |
| CP&Q | MERCURY LAMP ALL WIRING AS INDICATED SHEET E-1 |
| PGO | PGO INDICATES CONDUIT NUMBER - SEE CONDUIT & CABLE SCHEDULES |
| T | TELEPHONE CONDUIT |
| V | VOLTMETER |
| T | THERMOSTAT |
| VSC | VARIABLE SPEED CONTROL |
| CV | CONE OR BALL CHECK VALVE |
| R | RELAY |

AS BUILT

APRIL 1977

(E-1)

7554

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
HOGANS CREEK PUMPING STATION

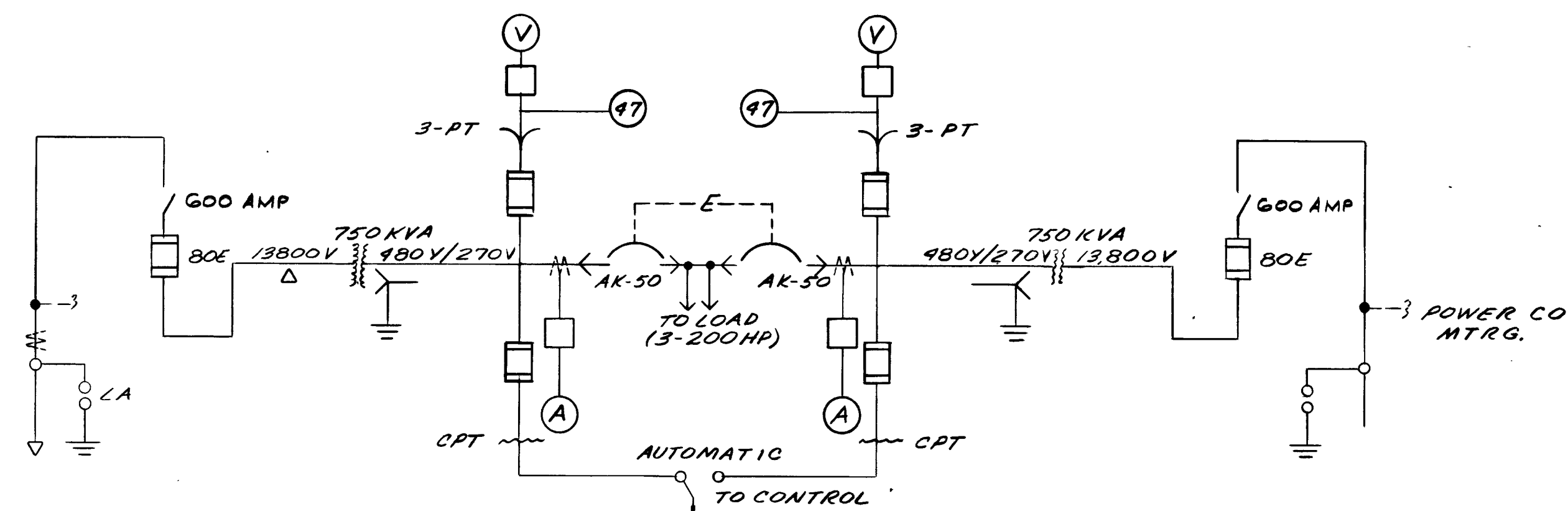
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT

SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT

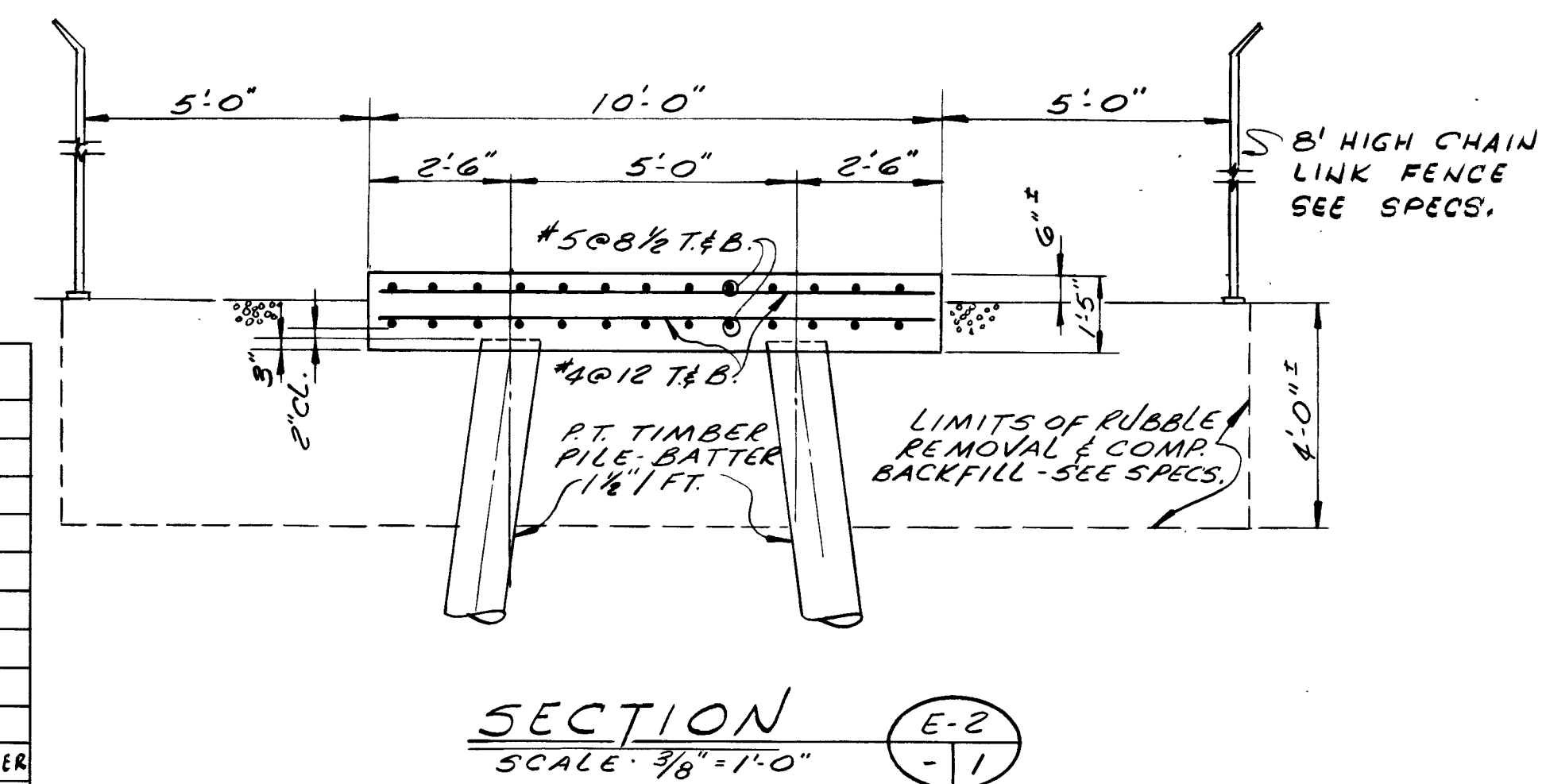
DETAILED BY <u>FEW</u>	SCALE <u>AS SHOWN</u>	DATE <u>AUGUST 1972</u>
CHECKED BY <u>AC</u>	7205-3	

SITE PLAN AND LEGEND

CONTR. NO. JS-23 PROJ. NO. OII-3 SHEET NO. 33 OF 42

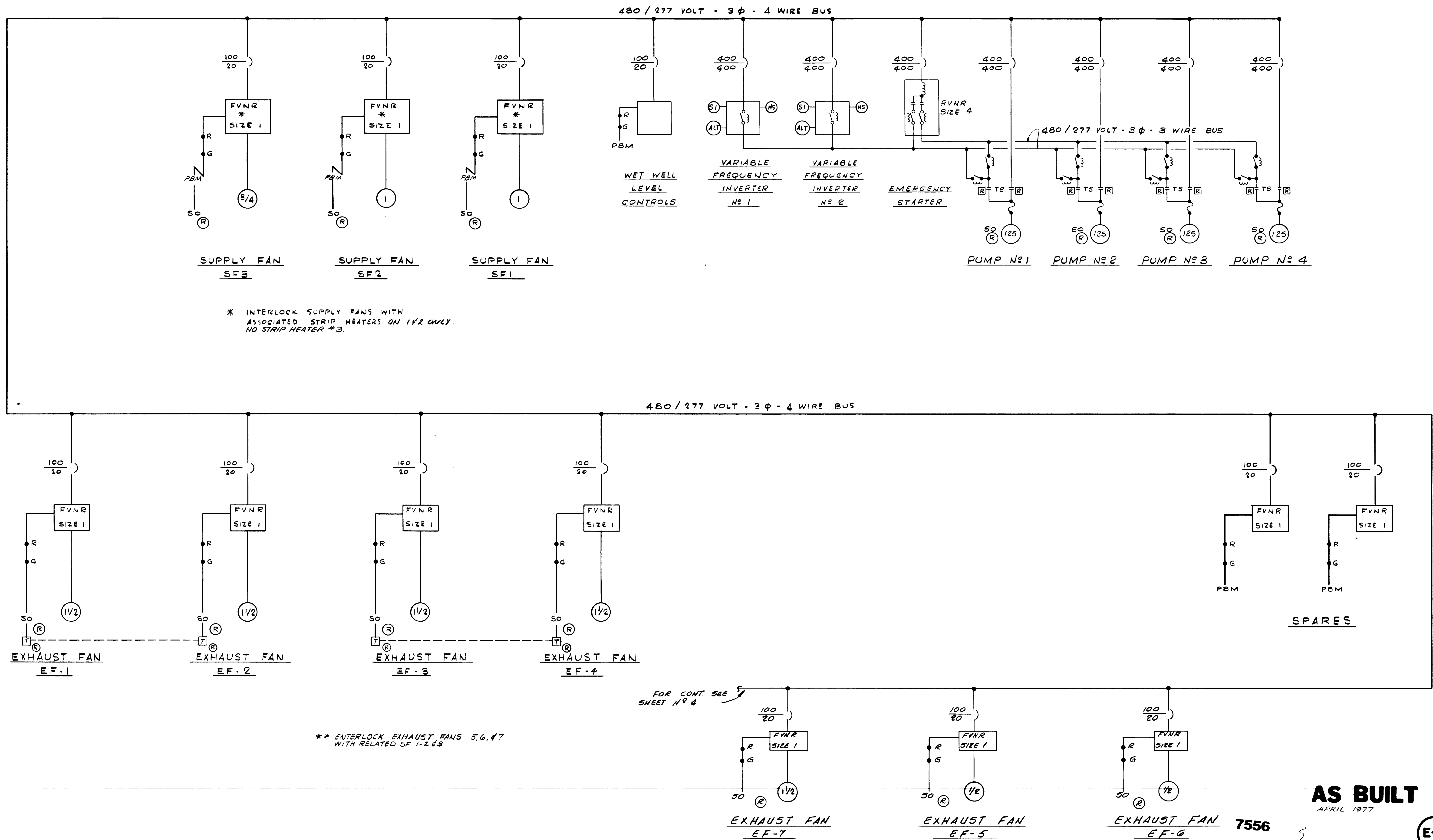


SINGLE LINE DIAGRAM



ITEM N°S	DESCRIPTION
A	POWER CO. METERING & PRIMARY CIRCUIT BREAKER
B	TRANSITION CABINET
C	750 KVA TRANSFORMER
D	TRANSITION CABINET
E	FEEDER CIRCUIT BREAKER (1200 AMPS)
F	FEEDER CIRCUIT BREAKER (1'200 AMPS)
G	TRANSITION CABINET
H	750 KVA TRANSFORMER
I	.TRANSITION CABINET
J	POWER COMPANY METERING & PRIMARY CIRCUIT BREAKER

[illegible]



AS BUILT

APRIL 1977

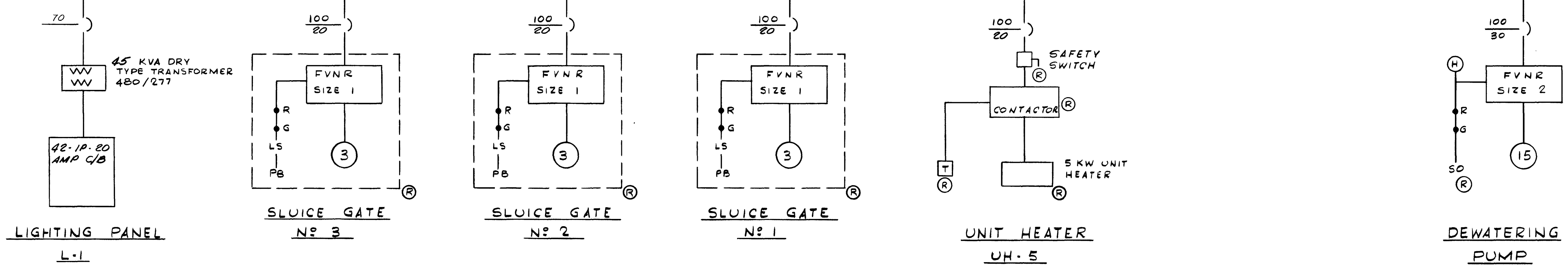
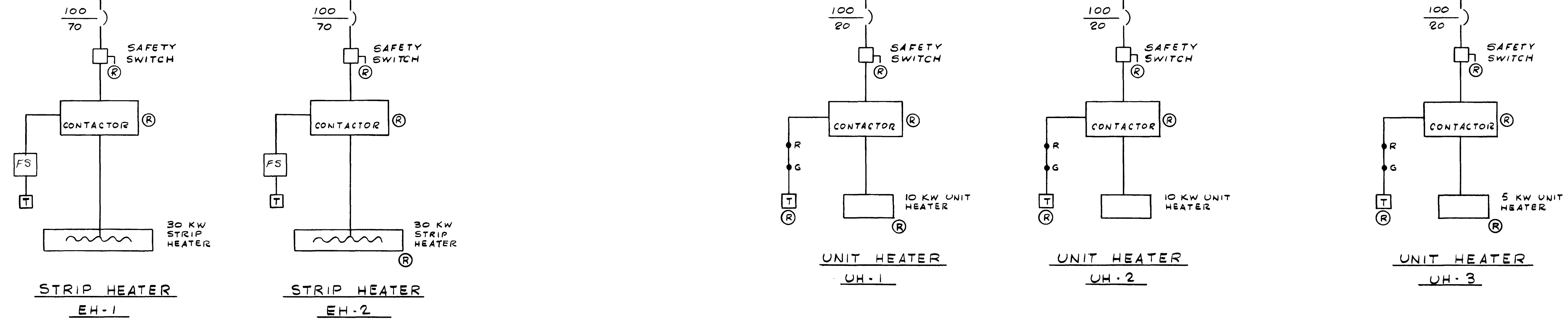
7556

E-3

										SUBMITTED BY <u>Bruce L. Proffitt</u> REG. ENGR. FLA. NO. <u>4921</u> DATE <u>10-72</u> FLOOD & ASSOCIATES, INC.										APPROVED BY <u>[Signature]</u> REG. ENGR. FLA. NO. <u>24270</u> DATE <u>2-73</u> WATER AND SEWER DIVISION AUTHORIZED BY <u>[Signature]</u> REG. ENGR. FLA. NO. <u>2663</u> DATE <u>2-73</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM PHASE 2 HOGANS CREEK PUMPING STATION										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT DETAILED BY <u>FEW</u> SCALE <u>AS SHOWN</u> DATE <u>AUGUST 1972</u> CHECKED BY <u>AC</u> 7205-3										SINGLE LINE DIAGRAM CONTR. NO. <u>JS-23</u> PROJ. NO. <u>OII-3</u> SHEET NO. <u>35</u> OF <u>42</u>									
NO. DESCRIPTION BY FIRM DATE S&P DATE PW DATE REVISIONS SUBMITTAL APPROVAL																																																											

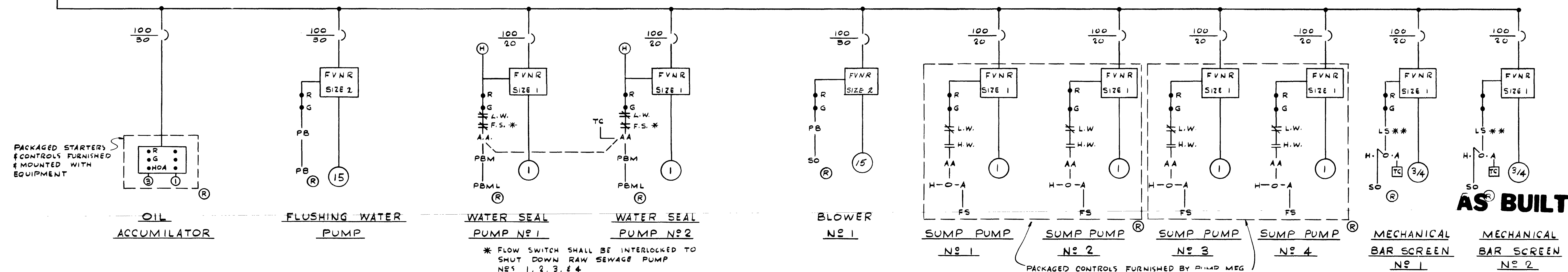
FOR CONT.
SEE SHEET NO E-3

480/277 VOLT - 3 ϕ - 3 WIRE BUS



AS BUILT
APRIL 1977

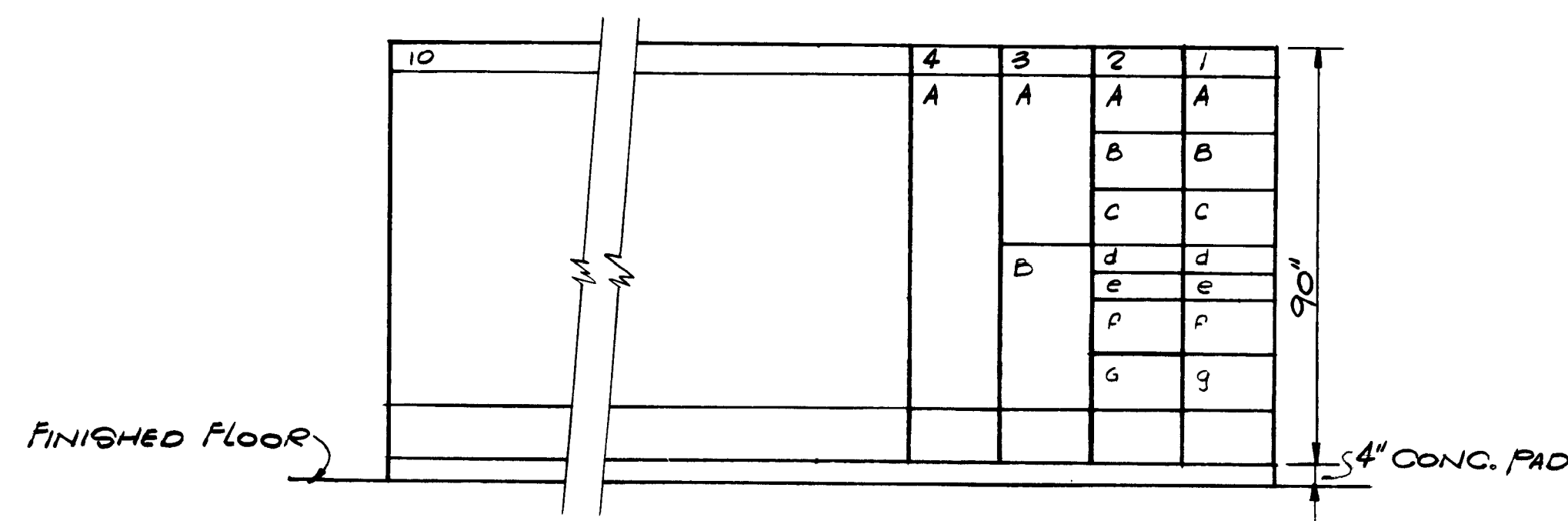
** LIMIT SWITCH ON SHEAR PIN
FAILURE TO KEY TELEMETERING
EQUIPMENT FURNISHED BY
OTHERS



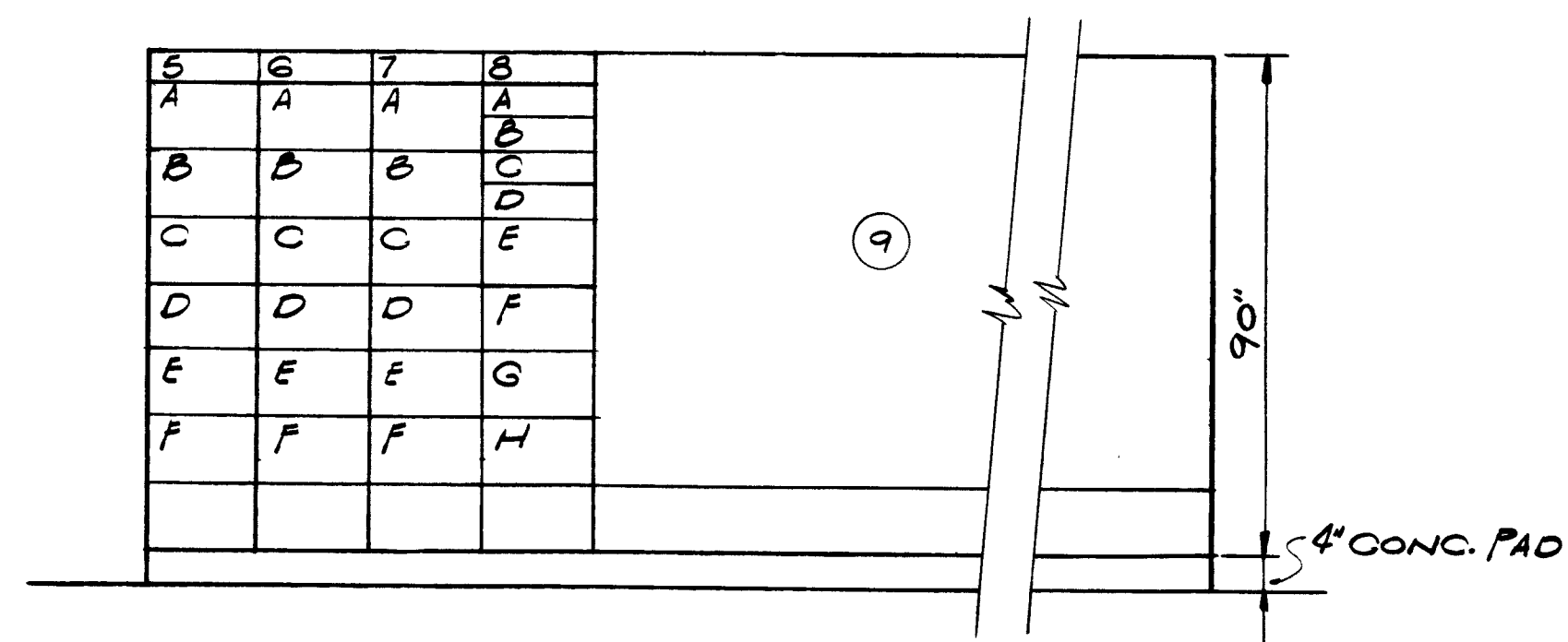
AS BUILT

PACKAGED CONTROLS FURNISHED BY PUMP MFG

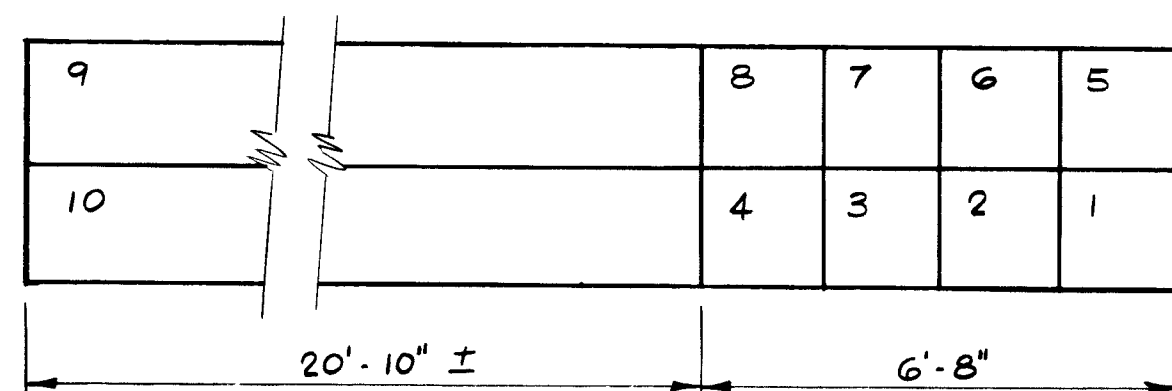
						SUBMITTED BY: <i>Don L. Tomlin</i>		APPROVED BY: <i>Don L. Tomlin</i>		CITY OF JACKSONVILLE, FLORIDA		FLOOD & ASSOCIATES, INC. 7557		SINGLE LINE DIAGRAM E-4	
						REG. ENGR. FLA. NO. 9821 DATE 10/22		REG. ENGR. FLA. NO. 7570 DATE 1/73		SEWERAGE IMPROVEMENT PROGRAM		DESIGN CONSULTANT			
						FLOOD & ASSOCIATES, INC.		WATER AND SEWER DIVISION		PHASE 2		SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT			
						APPROVAL		AUTHORIZED BY: <i>Don L. Tomlin</i>		HOGANS CREEK PUMPING STATION		DETAILED BY: FEW		SCALE AS SHOWN	
						RECOMMENDED BY: <i>Don L. Tomlin</i>		OFFICE OF DIRECTOR OF PUBLIC WORKS		CHECKED BY: AC		DATE AUGUST 1972		CONTR. NO. JS-23	
						REG. ENGR. FLA. NO. 9663 DATE 2/73		CITY OF JACKSONVILLE, FLORIDA				7205-3		PROJ. NO. 011-3	
						SVERDRUP & PARCEL AND ASSOCIATES, INC.								SHEET NO. 36 OF 42	
						NO.									
						DESCRIPTION									
						BY									
						FIRM									
						DATE									
						S&P									
						DATE									
						PW									
						DATE									
						REVISIONS									
						SUBMITTAL									
						APPROVAL									



WEST ELEVATION - POWER DISTRIBUTION CENTER "H"
 SCALE: $\frac{3}{8}" = 1'-0"$



EAST ELEVATION - POWER DISTRIBUTION CENTER "H"
 SCALE: $\frac{3}{8}" = 1'-0"$



PLAN - POWER DISTRIBUTION CENTER H
 SCALE: $\frac{3}{8}" = 1'-0"$

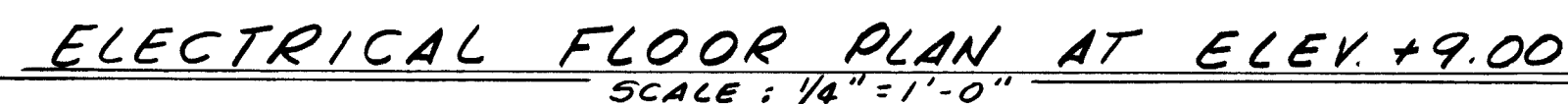
ITEM NO.	DESCRIPTION
1B	SUMP NO. 1
1C	SUPPLY FAN SF-1
1D	SUPPLY FAN SF-2
2B	SUMP PUMP NO. 2
2C	SUPPLY FAN SF-3
2D	EXHAUST FAN EF-1
1d	SUMP PUMP NO. 3
1a	EXHAUST FAN EF-2
1b	EXHAUST FAN EF-3
2d	SUMP PUMP NO. 4
2a	EXHAUST FAN EF-7
5A	DEWATERING PUMP
5B	EXHAUST FAN EF-10
5C	SPARE (EQUIPPED)
5D	SPARE (EQUIPPED)
5E	STRIP HEATER SH-1
5F	STRIP HEATER SH-2
6A	SPARE
6B	UNIT HEATER UH-1
6C	UNIT HEATER UH-2
6D	UNIT HEATER UH-3
6E	UNIT HEATER UH-5
6F	SPARE
7A	FLUSHING WATER PUMP
7B	WATER SEAL PUMP NO. 1
7C	WATER SEAL PUMP NO. 2
7D	BLOWER NO. 1
7E	MECH. BAR SCREEN NO. 1
7F	MECH. BAR SCREEN NO. 2
8A	SLUICE GATE NO. 1
8B	SLUICE GATE NO. 2
8C	SLUICE GATE NO. 3
8D	OIL ACCUMULATOR
8E	SPACE
8F	SPACE
8G	SPACE
8H	SPACE
3A	45 KVA TRANSFORMER
3B	LIGHTING PANEL (42 CKT'S)
9	SEWAGE PUMP NO. 1 VARIABLE SPEED CONTROLS
10	SEWAGE PUMP NO. 2 VARIABLE SPEED CONTROLS
4	WET WELL LEVEL CONTROLS

AS BUILT
 APRIL 1977

7558

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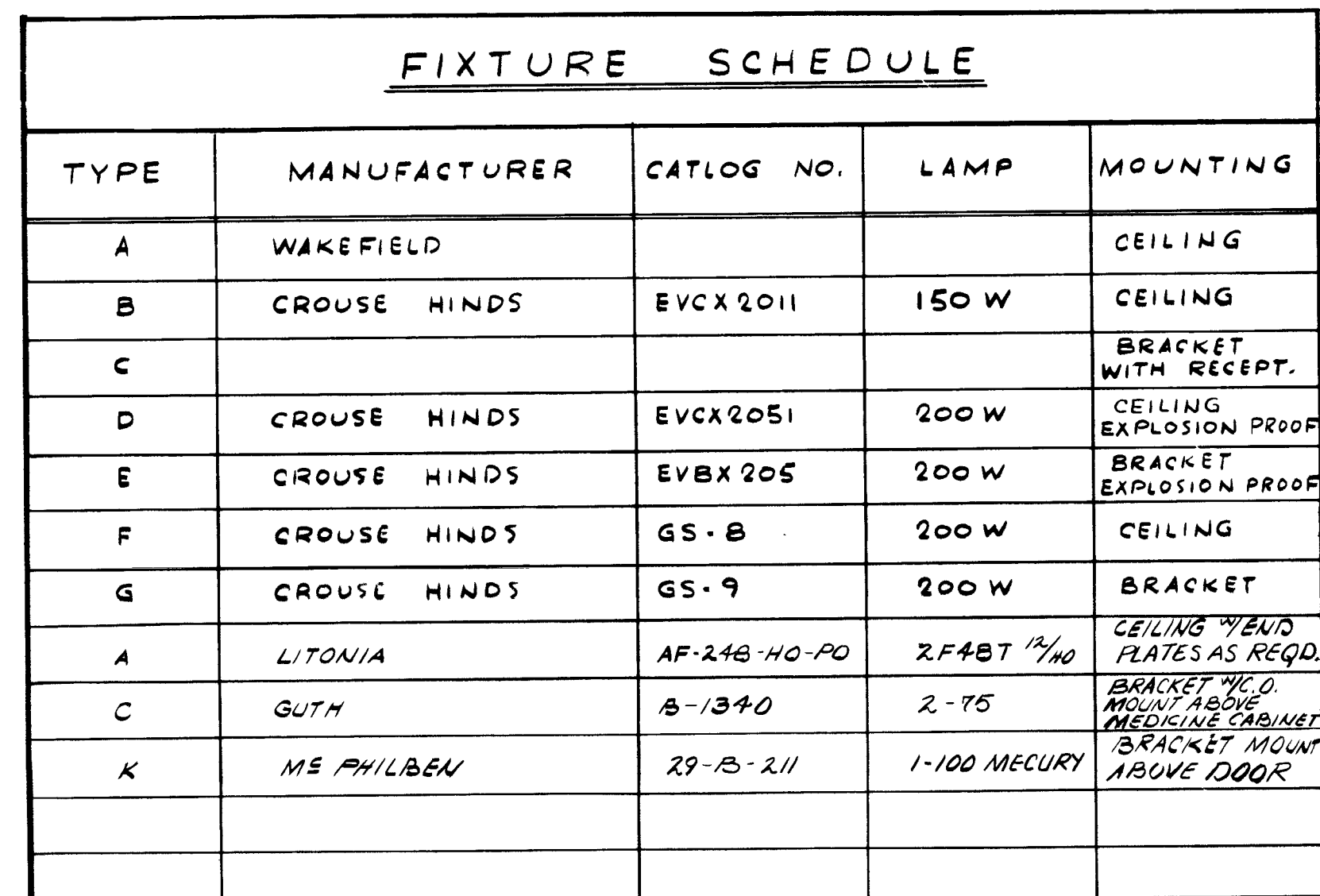
SUBMITTED BY: <i>[Signature]</i> DATE: 10/72 REG. ENGR. FLA. NO. 4921 FLOOD & ASSOCIATES, INC.										APPROVED BY: <i>[Signature]</i> DATE: 2/73 REG. ENGR. FLA. NO. 4270 WATER AND SEWER DIVISION										CITY OF JACKSONVILLE, FLORIDA										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT										POWER DISTRIBUTION CENTER									
APPROVAL RECOMMENDED BY: <i>[Signature]</i> DATE: 2/73 REG. ENGR. FLA. NO. 9663 SVERDRUP & PARCEL AND ASSOCIATES, INC.										AUTHORIZED BY: <i>[Signature]</i> DATE: 2/73 REG. ENGR. FLA. NO. 6847 OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										SEWERAGE IMPROVEMENT PROGRAM PHASE 2 HOGANS CREEK PUMPING STATION										SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT																			
NO. DESCRIPTION BY FIRM DATE S&P DATE PW DATE																				DETAILED BY: FEW SCALE AS SHOWN DATE AUGUST 1972										CONTR. NO. JS-23																			
REVISIONS SUBMITTAL APPROVAL																				CHECKED BY: AC 7205-3										PROJ. NO. 011-3 SHEET NO. 37 OF 42																			



7559

CONTR. NO. JS-23	PROJ. NO. 011-3	SHEET NO. 38 OF 42
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K&E 18-1253 2-72 49357•



NOTE :
ALL FLUORESCENT FIXTURES TYPE 'A'

ROOF PLAN - POWER & LIGHTING

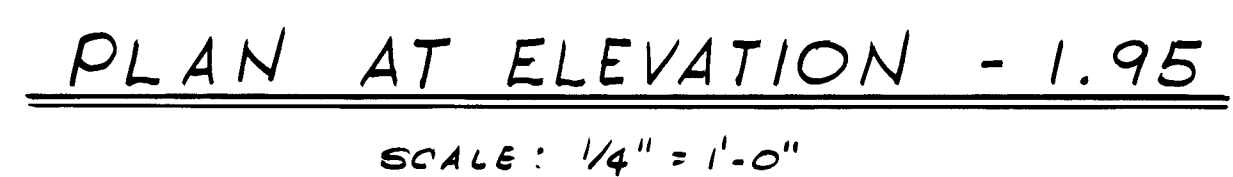
SCALE : 1/4" = 1'-0"

AS BUILT
APRIL 1977

7560

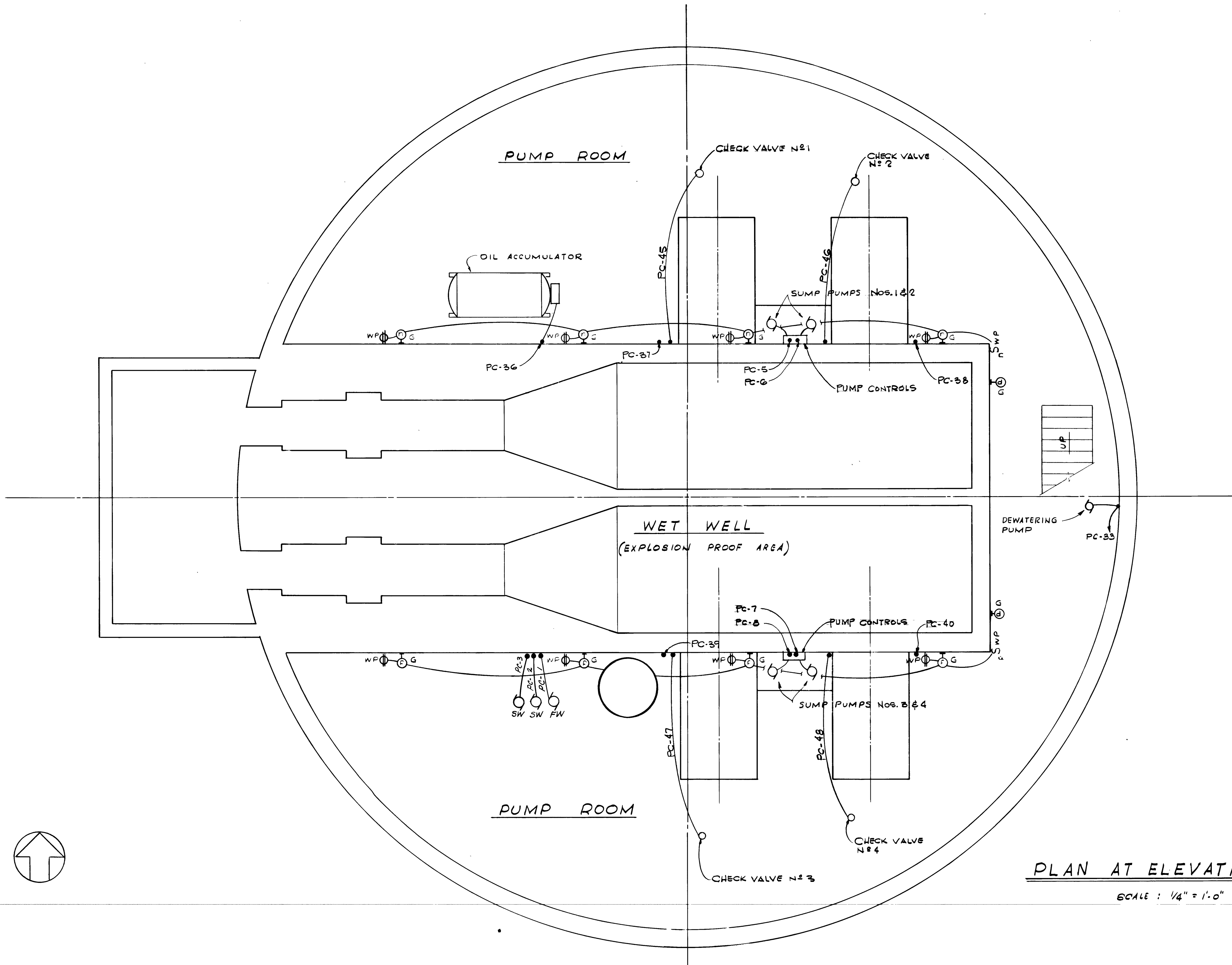
(E-7)

										SUBMITTED BY <u>D. L. E. H. H. H.</u> REG. ENGR. FLA. NO. <u>4921</u> DATE <u>10/12</u> FLOOD & ASSOCIATES, INC. APPROVAL RECOMMENDED BY <u>H. H. H. H. H.</u> REG. ENGR. FLA. NO. <u>9663</u> DATE <u>2/13</u> SVERDRUP & PARCEL AND ASSOCIATES, INC.										APPROVED BY <u>H. H. H. H. H.</u> REG. ENGR. FLA. NO. <u>4230</u> DATE <u>2/13</u> WATER AND SEWER DIVISION AUTHORIZED BY <u>H. H. H. H. H.</u> REG. ENGR. FLA. NO. <u>6817</u> DATE <u>2/13</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM PHASE 2 HOGANS CREEK PUMPING STATION										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT DETAILED BY <u>FEW</u> SCALE <u>AS SHOWN</u> DATE <u>AUGUST 1972</u> CHECKED BY <u>AC</u> 7205-3										ROOF PLAN/POWER & LIGHTING PLAN CONTR. NO. <u>JS-23</u> PROJ. NO. <u>011-3</u> SHEET NO. <u>39</u> OF <u>42</u>									
NO. DESCRIPTION BY FIRM DATE S&P DATE PW DATE REVISIONS SUBMITTAL APPROVAL																																																											



E-8

										SUBMITTED BY: <u>D. L. Horn, Inc.</u> REG. ENGR. F.L.A. NO. <u>4921</u> DATE <u>10/72</u> FLOOD & ASSOCIATES, INC.										APPROVED BY: <u>J. H. Haynes</u> REG. ENGR. F.L.A. NO. <u>9770</u> DATE <u>2/73</u> WATER AND SEWER DIVISION AUTHORIZED BY: <u>[Signature]</u> REG. ENGR. F.L.A. NO. <u>6847</u> DATE <u>2/73</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM PHASE 2 HOGANS CREEK PUMPING STATION										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT DETAILED BY: <u>FEW</u> SCALE <u>AS SHOWN</u> DATE <u>AUGUST 1972</u> CHECKED BY: <u>AC</u> 7205-3										PLAN AT ELEVATION -1.95									
NO. DESCRIPTION BY FIRM DATE S&P DATE PW DATE										APPROVAL RECOMMENDED BY: <u>[Signature]</u> REG. ENGR. F.L.A. NO. <u>9663</u> DATE <u>2/73</u> SVERDRUP & PARCEL AND ASSOCIATES, INC.																				CONTR. NO. <u>JS-23</u> PROJ. NO. <u>OII-3</u> SHEET NO. <u>40</u> OF <u>42</u>																													
REVISIONS SUBMITTAL APPROVAL																																																											



PLAN AT ELEVATION -16.75

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

AS BUILT
APRIL 1977

7562

E-9

										SUBMITTED BY <i>Bill E. Bryant</i> REG. ENGR. FLA. NO. <u>4921</u> DATE <u>12/72</u> FLOOD & ASSOCIATES, INC.										APPROVED BY <i>[Signature]</i> REG. ENGR. FLA. NO. <u>4271</u> DATE <u>2/73</u> WATER AND SEWER DIVISION AUTHORIZED BY <i>[Signature]</i> REG. ENGR. FLA. NO. <u>6847</u> DATE <u>2/73</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT										PLAN AT ELEVATION -16.75																													
										APPROVAL RECOMMENDED BY <i>M. L. Bryant</i> REG. ENGR. FLA. NO. <u>9663</u> DATE <u>2/73</u> SVERDRUP & PARCEL AND ASSOCIATES, INC.																				SEWERAGE IMPROVEMENT PROGRAM PHASE 2 HOGANS CREEK PUMPING STATION										SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT																																							
NO. DESCRIPTION										BY FIRM DATE S&P DATE PW DATE																														DETAILED BY: <u>FEW</u> SCALE <u>AS SHOWN</u> DATE <u>AUGUST 1972</u>										CONTR. NO. <u>JS-23</u>										PROJ. NO. <u>OII-3</u>										SHEET NO. <u>41</u> OF <u>42</u>									
REVISIONS										SUBMITTAL APPROVAL																														CHECKED BY: <u>AC</u> 7205-3																																							

CONDUIT		CABLE				FROM	TO	FOR	REMARKS
NO.	SIZE	COND.	SIZE	INS.	VOLT.				
PC-1	1"	5	10	THW	600	POWER DISTRIBUTION CENTER "H"	FLUSHING WATER PUMP	POWER & "PB"	
PC-2	1"	7	10	THW	600		WATER SEAL PUMP NO 1	POWER PBML	
PC-3	1"	7	10	THW	600		WATER SEAL PUMP NO 2	POWER PBML	
PC-4	1"	5	10	THW	600		BLOWER NO 1	POWER & "SO"	
PC-5	1"	5	10	THW	600		SUMP PUMP NO 1	POWER & "SO" & "FS"	
PC-6	1"	5	10	THW	600		SUMP PUMP NO 2	POWER & "SO" & "FS"	
PC-7	1"	5	10	THW	600		SUMP PUMP NO 3	POWER & "SO" & "FS"	
PC-8	1"	5	10	THW	600		SUMP PUMP NO 4	POWER & "SO" & "FS"	
PC-9	1"	7	10	THW	600		BAR SCREEN NO 1	POWER & "SO" & "TC"	
PC-10	1"	7	10	THW	600		BAR SCREEN NO 2	POWER & "SO" & "TC"	
PC-11	1"	5	10	THW	600		SLUICE GATE NO 1	POWER & "PB" & "LS"	
PC-12	1"	5	10	THW	600		SLUICE GATE NO 2	POWER & "PB" & "LS"	
PC-13	1"	5	10	THW	600		SLUICE GATE NO 3	POWER & "PB" & "LS"	
PC-14	1"	7	10	THW	600		SUPPLY FAN NO 1	POWER & "SO"	
PC-15	1"	7	10	THW	600		SUPPLY FAN NO 2	POWER & "SO"	
PC-16	1"	7	10	THW	600		SUPPLY FAN NO 3	POWER & "SO"	
PC-17	1"	5	10	THW	600		EXHAUST FAN NO 1	POWER & "SO" & "T"	
PC-18	1"	5	10	THW	600		EXHAUST FAN NO 2	POWER & "SO" & "T"	
PC-19	1"	5	10	THW	600		EXHAUST FAN NO 3	POWER & "SO" & "T"	
PC-20	1"	5	10	THW	600		EXHAUST FAN NO 4	POWER & "SO" & "T"	
PC-21	1"	5	10	THW	600		EXHAUST FAN NO 5	POWER & "SO"	
PC-22	1"	5	10	THW	600		EXHAUST FAN NO 6	POWER & "SO"	
PC-23	1"	5	10	THW	600		EXHAUST FAN NO 7	POWER & "SO"	
PC-24	1"	3	2	6	12		STRIP HEATER NO 1	POWER & "T"	
PC-25	1"	3	2	6	12		STRIP HEATER NO 2	POWER & "T"	
PC-26	1"	3	2	6	12		UNIT HEATER NO 1	POWER & "T"	
PC-27	1"	3	2	6	12		UNIT HEATER NO 2	POWER & "T"	
PC-28	1"	3	2	6	12		UNIT HEATER NO 3	POWER & "T"	
PC-29	1"	3	2	6	12		UNIT HEATER NO 5	POWER & "T"	
PC-30	1"	3	2	6	12				
PC-31	1"	3	2	6	12				
PC-32	1"	3	2	6	12				
PC-33	1"	3	2	6	12				
PC-34	1"	3	2	6	12				
PC-35	1"	3	2	6	12				
PC-36	1"	3	2	6	12				
PC-37	1"	3	2	6	12				
PC-38	1"	3	2	6	12				
PC-39	1"	3	2	6	12				
PC-40	1"	3	2	6	12				
PC-41	1"	3	2	6	12				
PC-42	1"	3	2	6	12				
PC-43	1"	3	2	6	12				
PC-44	1"	3	2	6	12				
PC-45	1"	6	10	THW	600		PUMP NO. 1 CHECK VALVE	POWER & CONTROL	
PC-46	1"	6	10	THW	600		" NO. 2 " "	" "	
PC-47	1"	6	10	THW	600		" NO. 3 " "	" "	
PC-48	1"	6	10	THW	600	POWER DISTRIBUTION CENTER "H"	" NO. 4 " "	" "	
PC-49	1"	6	10	THW	600				
PC-50	1"	6	10	THW	600				
PC-51	1"	6	10	THW	600				
PC-52	1"	6	10	THW	600				
PC-53	1"	6	10	THW	600				
PC-54	1"	6	10	THW	600				
PC-55	1"	6	10	THW	600				
PC-56	1"	6	10	THW	600				
PC-57	1"	6	10	THW	600				
PC-58	1"	6	10	THW	600				
PC-59	1"	6	10	THW	600				
PC-60	1"	6	10	THW	600				
PC-61	1"	6	10	THW	600				
PC-62	1"	6	10	THW	600				
PC-63	1"	6	10	THW	600				
PC-64	1"	6	10	THW	600				
PC-65	1"	6	10	THW	600				
PC-66	1"	6	10	THW	600				
PC-67	1"	6	10	THW	600				
PC-68	1"	6	10	THW	600				
PC-69	1"	6	10	THW	600				
PC-70	1"	6	10	THW	600				
PC-71	1"	6	10	THW	600				
PC-72	1"	6	10	THW	600				
PC-73	1"	6	10	THW	600				
PC-74	1"	6	10	THW	600				
PC-75	1"	6	10	THW	600				
PC-76	1"	6	10	THW	600				
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PC-78	1"	6	10	THW	600				
PC-79	1"	6	10	THW	600				
PC-80	1"	6	10	THW	600				
PC-81	1"	6	10	THW	600				
PC-82	1"	6	10	THW	600				
PC-83	1"	6	10	THW	600				
PC-84	1"	6	10	THW	600				
PC-85	1"	6	10	THW	600				
PC-86	1"	6	10	THW	600				
PC-87	1"	6	10	THW	600				
PC-88	1"	6	10	THW	600				
PC-89	1"	6	10	THW	600				
PC-90	1"	6	10	THW	600				
PC-91	1"	6	10	THW	600				
PC-92	1"	6	10	THW	600				
PC-93	1"	6	10	THW	600				
PC-94	1"	6	10	THW	600				
PC-95	1"	6	10	THW	600				
PC-96	1"	6	10	THW	600				
PC-97	1"	6	10	THW	600				
PC-98	1"	6	10	THW	600				
PC-99	1"	6	10	THW	600				
PC-100	1"	6	10	THW	600				
F-1	4-3"	3EA	500	THW	600	POWER DISTRIBUTION CENTER "H"	OUTDOOR UNIT SUBSTATION	POWER	
F-2	4-3"	3EA	500	THW	600				
F-3	4-3"	3EA	500	THW	600				
F-4	4-3"	3EA	500	THW	600				
F-5	4-3"	3EA	500	THW	600				
F-6	4-3"	3EA	500	THW	600				
F-7	4-3"	3EA	500	THW	600				
F-8	4-3"	3EA	500	THW	600				
F-9	4-3"	3EA	500	THW	600				
F-10	4-3"	3EA	500	THW	600				
F-11	4-3"	3EA	500	THW	600				
F-12	4-3"	3EA	500	THW	600				
F-13	4-3"	3EA	500	THW	600				
F-14	4-3"	3EA	500	THW	600				
F-15	4-3"	3EA	500	THW	600				
F-16	4-3"	3EA	500	THW	600				
F-17	4-3"	3EA	500	THW	600				
F-18	4-3"	3EA	500	THW	600				
F-19	4-3"	3EA	500	THW	600				
F-20	4-3"	3EA	500	THW	600				
F-21	4-3"	3EA	500	THW	600				
F-22	4-3"	3EA	500	THW	600				
F-23	4-3"	3EA	500	THW	600				
F-24	4-3"	3EA	500	THW	600				
F-25	4-3"	3EA	500	THW	600				
F-26	4-3"	3EA	500	THW	600				
F-27	4-3"	3EA	500	THW	600				
F-28	4-3"	3EA	500	THW	600				
F-29	4-3"	3EA	500	THW	600				
F-30	4-3"	3EA	500	THW	600				
F-31	4-3"	3EA	500	THW	600				
F-32	4-3"	3EA	500	THW	600				
F-33	4-3"	3EA	500	THW	600				
F-34	4-3"	3EA	500	THW	600				
F-35	4-3"	3EA	500	THW	600				
F-36	4-3"	3EA	500	THW	600				
F-37	4-3"	3EA	500	THW	600				
F-38	4-3"	3EA	500	THW	600				
F-39	4-3"	3EA	500	THW	600				
F-40	4-3"	3EA	500	THW	600				
F-41	4-3"	3EA	500	THW	600				
F-42	4-3"	3EA	500	THW	600				
F-43	4-3"	3EA	500	THW	600				
F-44	4-3"	3EA	500	THW	600				
F-45	4-3"	3EA	500	THW	600				
F-46	4-3"	3EA	500	THW	600				
F-47	4-3"	3EA	500	THW	600				
F-48	4-3"	3EA	500	THW	600				
F-49	4-3"	3EA	500	THW	600				
F-50	4-3"	3EA	500	THW	600				
F-51	4-3"	3EA	500	THW	600				
F-52	4-3"	3EA	500	THW	600				
F-53	4-3"	3EA	500	THW	600				
F-54	4-3"	3EA	500	THW	600				
F-55	4-3"	3EA	500	THW	600				
F-56	4-3"	3EA	500	THW	600				
F-57	4-3"	3EA	500	THW	600				
F-58	4-3"	3EA	500	THW	600				
F-59	4-3"	3EA	500	THW	600				
F-60	4-3"	3EA	500	THW	600				
F-61	4-3"	3EA	500	THW	600				
F-62	4-3"	3EA	500	THW	600				
F-63	4-3"	3EA	500	THW	600				
F-64	4-3"	3EA	500	THW	600				
F-65	4-3"	3EA	500	THW	600				
F-66	4-3"	3EA	500	THW	600				
F-67	4-3"	3EA	500	THW	600				
F-68	4-3"	3EA	500	THW	600				
F-69	4-3"	3EA	500	THW	600				
F-70	4-3"	3EA	500	THW	600				
F-71	4-3"	3EA	500	THW	600				
F-72	4-3"	3EA	500	THW	600				
F-73	4-3"	3EA	500	THW	600				
F-74	4-3"	3EA	500	THW	600				
F-75	4-3"	3EA	500	THW	600				
F-76	4-3"	3EA	500	THW	600				
F-77	4-3"	3EA	500	THW	600				
F-78	4-3"	3EA	500	THW	600				
F-79	4-3"	3EA	500	THW	600				
F-80	4-3"	3EA	500	THW	600				
F-81	4-3"	3EA	500	THW	600				
F-82	4-3"	3EA	500	THW	600				
F									