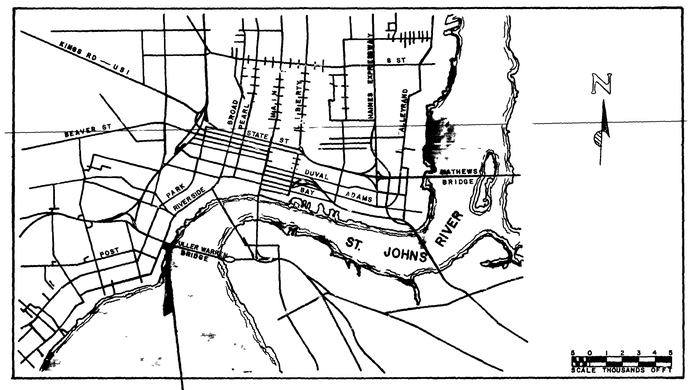
K&E 19 1253 9-71 47606

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM

PHASE 2

RIVERSIDE PUMPING STATION

NO. JS-24



LOCATION PLAN

RIVERSIDE PUMPING STATION

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

7634 S

JANUARY, 1973

SHEET NO.	DWG. NO.	TITLE
1	1	COVER SHEET
2	2	INDEX TO DRAWINGS
		GRADING
3	G-1	SITE PLAN
		MECHANICAL
4	M-1	MECHANICAL SITE PLAN
5	M-2	PLAN AT ELEV. 13.50
6	M-3	PLAN AT ELEV. 2.57
7	M-4	PLAN AT ELEV. -17.44
8	M-5	LONGITUDINAL SECTION
9	M-6	TRANSVERSE SECTION
10	M-7	PLUMBING PLAN AT ELEV. 13.50
11	M-8	PLUMBING PLAN AT ELEV. 2.57
12	M-9	PLUMBING PLAN AT ELEV. -17.44
13	M-10	SECTIONS AND DETAILS
14	M-11	SCHEMATIC AND TYPICAL DETAILS
15	M-12	ACCUMULATOR SYSTEM
16	M-13	STANDARD DETAILS
17	M-14	INFLUENT AND TEMPORARY SEWER/PLAN & PROFILE
18	M-15	HEATING AND VENTILATION/FLOOR PLAN AT ELEV. 13.50
19	M-16	HEATING AND VENTILATION/FLOOR PLAN AT ELEV. -5.42
20	M-17	HEATING AND VENTILATION/SCHEDULES AND SECTION
		STRUCTURAL
21	S-1	GENERAL NOTES AND TYPICAL DETAILS
22	S-2	BOTTOM SLAB PLAN AT ELEV. -17.44
23	S-3	FRAMING PLAN AT ELEV. 2.57

SHEET NO.	DWG. NO.	TITLE
		STRUCTURAL CONT.
24	S-4	GROUND FLOOR FRAMING PLAN
25	S-5	ROOF FRAMING PLAN
26	S-6	CROSS SECTION
27	S-7	CROSS SECTION
28	S-8	STAIR DETAILS
29	S-9	CRANE RAIL AND MONORAIL SYSTEM/COLUMN SCHEDULE
30	S-10	BEAM AND SLAB SCHEDULE
		ARCHITECTURAL
31	A-1	PLAN, ELEVATIONS & SCHEDULES
32	A-2	SECTIONS & DETAILS
33	A-3	SECTIONS & DETAILS
		ELECTRICAL
34	E-1	SITE PLAN AND LEGEND
35	E-2	13.8 KVA OUTDOOR UNIT SUBSTATION
36	E-3	SINGLE LINE DIAGRAM
37	E-4	SINGLE LINE DIAGRAM
38	E-5	POWER DISTRIBUTION CENTER
39	E-6	POWER PLAN AT ELEVATION 9.00
40	E-7	ROOF PLAN/POWER & LIGHTING PLAN
41	E-8	PLAN AT ELEVATION 2.57
42	E-9	PLAN AT ELEVATION -17.44
43	E-10	CONDUIT AND CABLE SCHEDULES

AS BUILT
APRIL 1977

7635 S

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

SUBMITTED BY: Flood & Parcel
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 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: [signature]
REG. ENGR. FLA. NO. 6847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

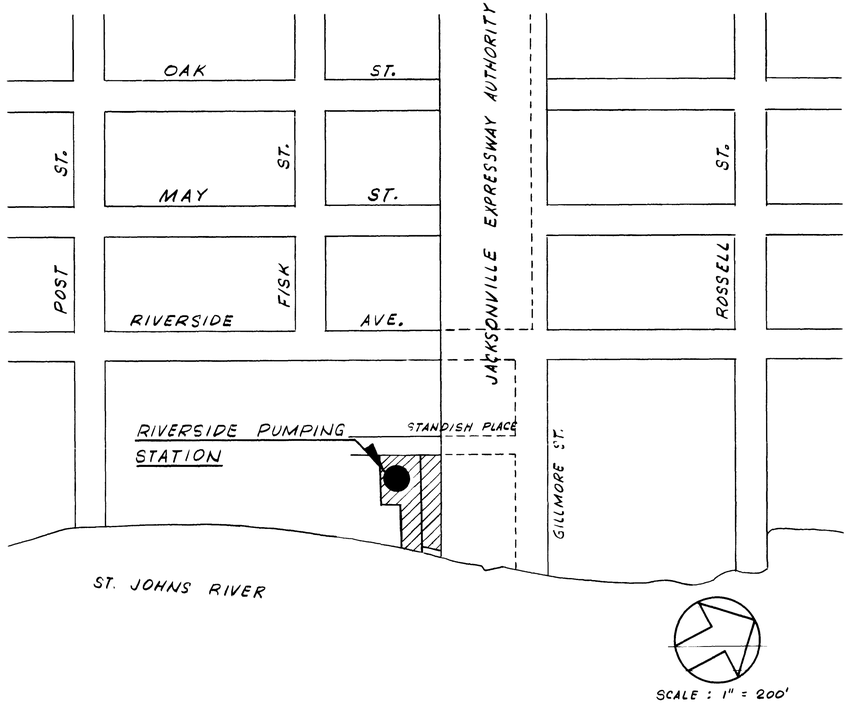
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT

DETAILED BY: SBD | SCALE NONE | DATE AUGUST, 72
CHECKED BY: RVT | 7207

INDEX TO DRAWINGS

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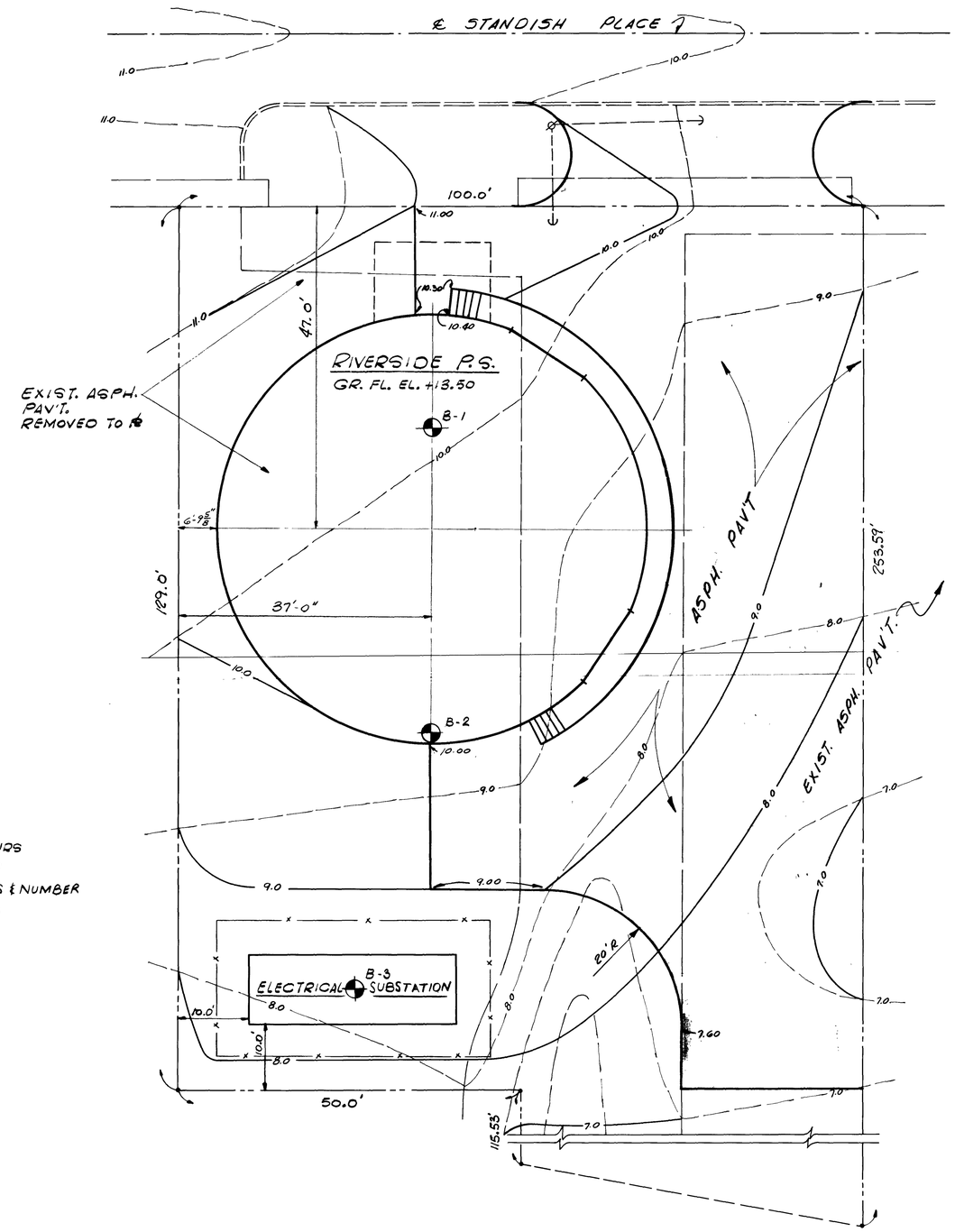
K&E 19-1253 2-72 49357•



VICINITY MAP

LEGEND

- PROPERTY LINE
- 10.0 EXISTING CONTOURS
- 8.0 NEW CONTOURS
- B-1 BORING LOCATIONS & NUMBER
  SEE SPECS. FOR LOG



SITE PLAN

AS BUILT
APRIL 1977

G-1

7636 S

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

SUBMITTED BY: Dan K Traywick
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: W Sanford
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, Inc.

APPROVED BY: H Hyatt
REG. ENGR. FLA. NO 4276 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: Wright
REG. ENGR. FLA. NO 0847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

DETAILED BY: JRH | SCALE AS SHOWN | DATE AUGUST 19, 1972
CHECKED BY: RVT | 7207

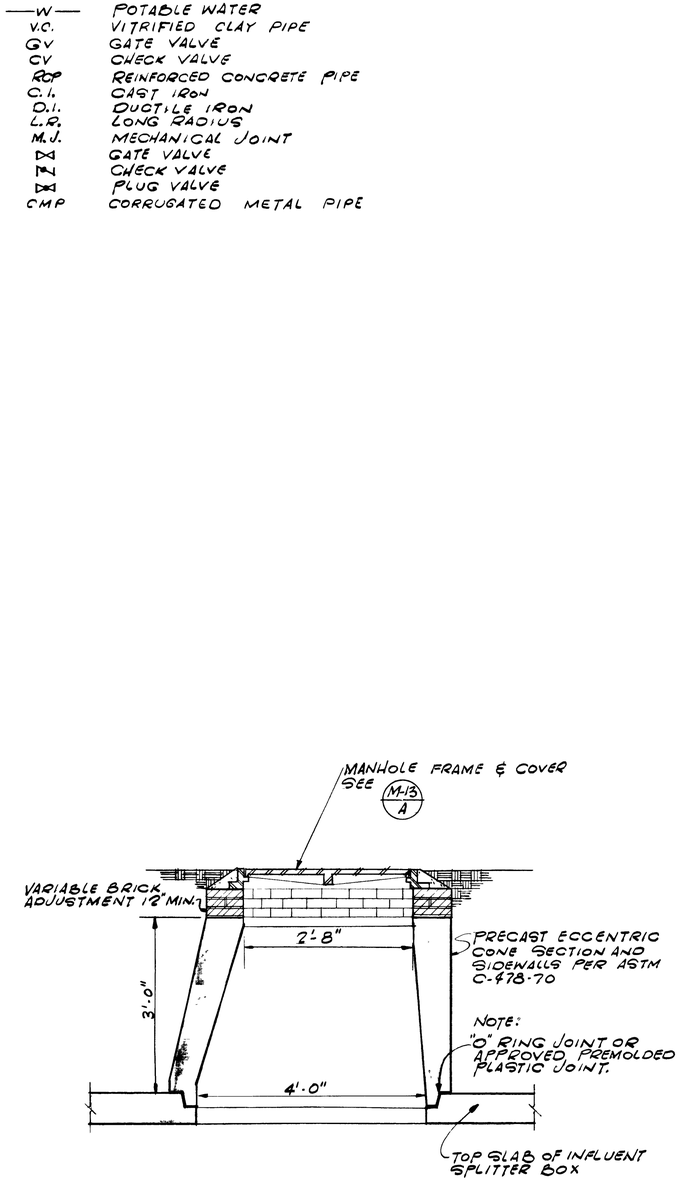
SITE PLAN

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 3 OF 43

K&E 19-1253 2-72 49357-

LEGEND

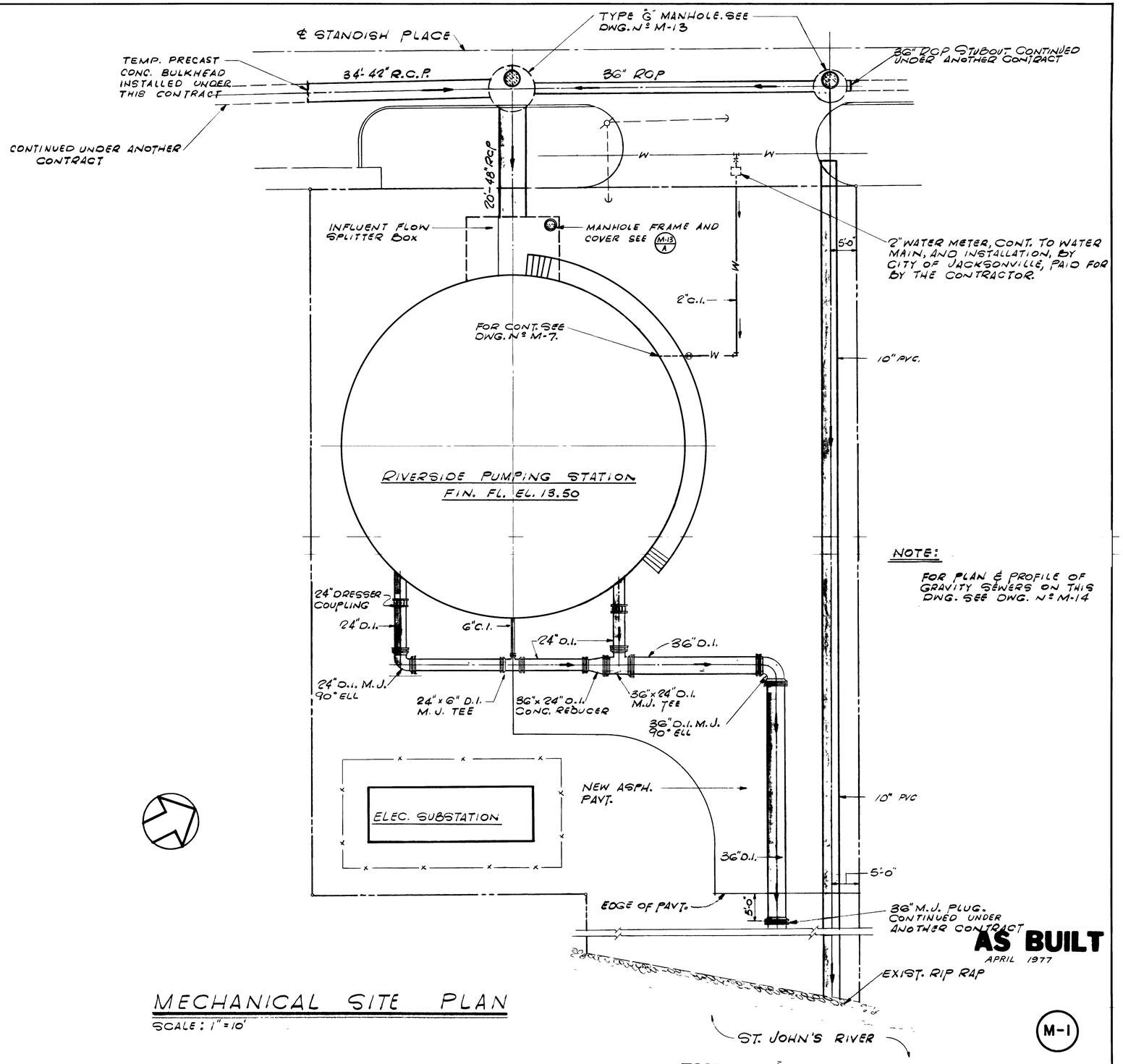
—W—	POTABLE WATER
V.C.	VITRIFIED CLAY PIPE
GV	GATE VALVE
CV	CHECK VALVE
RCP	REINFORCED CONCRETE PIPE
C.I.	CAST IRON
D.I.	DUCTILE IRON
L.R.	LONG RADIUS
M.J.	MECHANICAL JOINT
⋈	GATE VALVE
⋈	CHECK VALVE
⋈	PLUG VALVE
CMP	CORRUGATED METAL PIPE



PRECAST MANHOLE RISER

NOT TO SCALE

M-1 / M-2 A



AS BUILT
APRIL 1977

MECHANICAL SITE PLAN

SCALE : 1" = 10'

M-1

NO	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
	REVISIONS	SUBMITTAL			APPROVAL			

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 2270 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY [signature]
REG ENGR FLA NO 6847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

7637

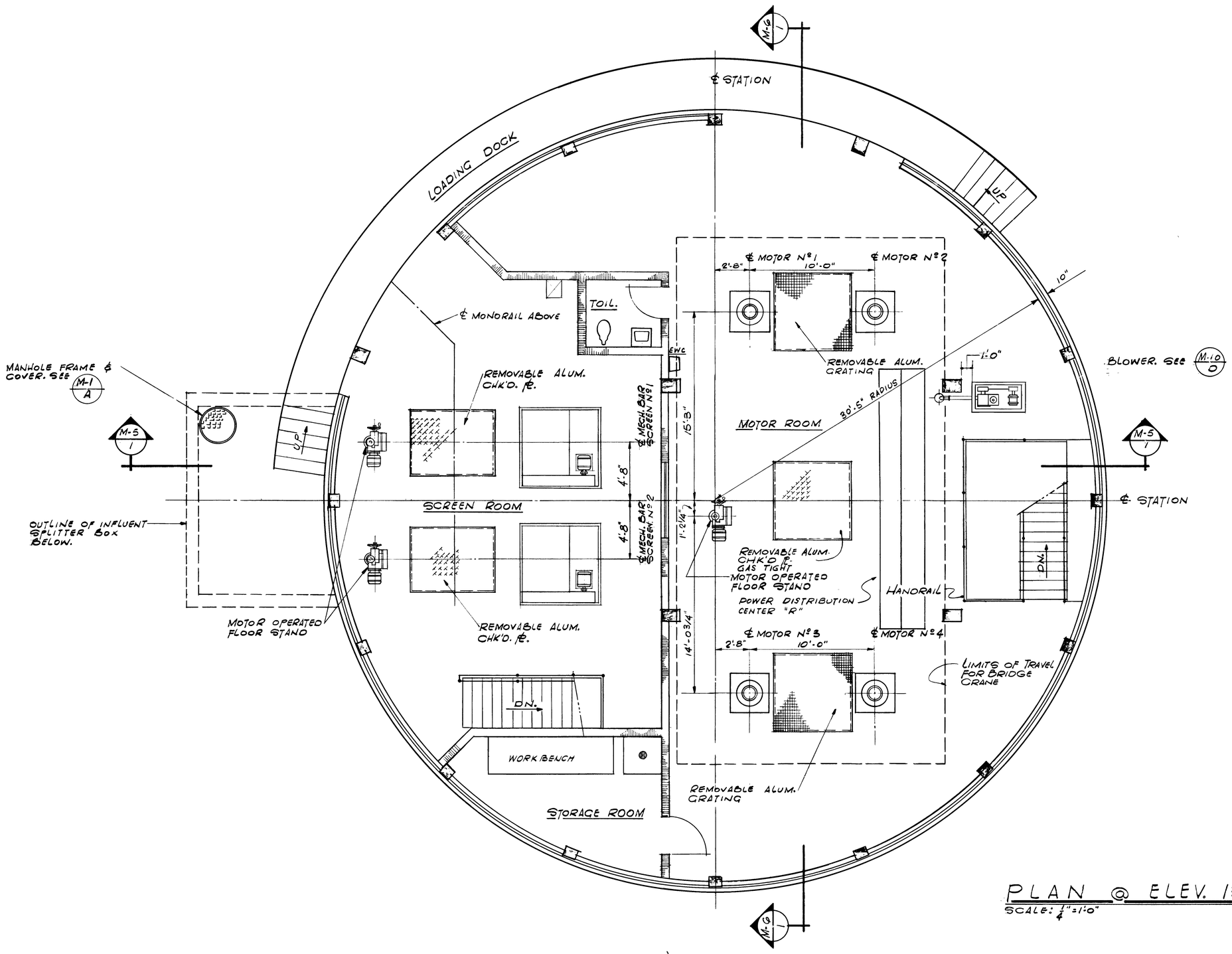
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc --- GENERAL CONSULTANT

DETAILED BY SBD | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY RVT | 7207

MECHANICAL SITE PLAN

CONTR NO JS-24 | PROJ NO 011-5 | SHEET NO 4 OF 43

K&E 19 1253 2 72 49357•



PLAN @ ELEV. 13.50

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

AS BUILT

APRIL 1977

M-2

7638

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

SUBMITTED BY: Dale F. Pierpoint
REG. ENGR. FLA. NO. 4921 DATE 1/72
FLOOD & ASSOCIATES, INC.

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

APPROVED BY: R. H. Nagel
REG. ENGR. FLA. NO. 4270 DATE 2/73
WATER AND SEWER DIVISION

AUTHORIZED BY: Henry Link
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
RIVERSIDE PUMPING STATION

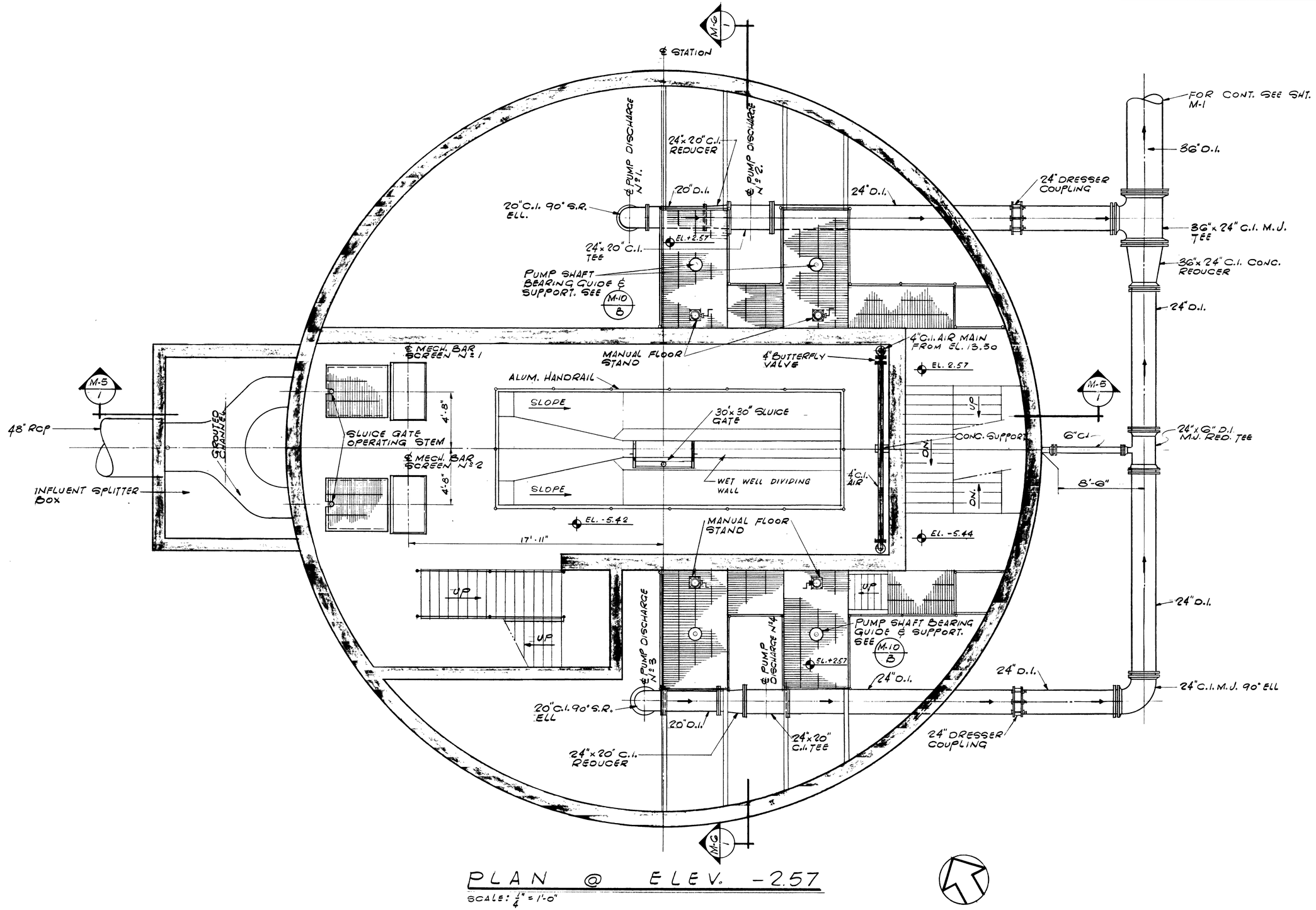
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT

DETAILED BY: SBD
CHECKED BY: RVT
SCALE AS SHOWN
DATE AUGUST 1972
7207

PLAN AT ELEV. 13.50

CONTR. NO. JS-24
PROJ. NO. 011-5
SHEET NO. 5 OF 43

K&E 10-1253 2-72 49357•



PLAN @ ELEV. -2.57

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

AS BUILT
APRIL 1977

M-3

7639

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

SUBMITTED BY: Bill F. Kingaid
REG. ENGR. FLA. NO. 4821 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: W. Lunsford
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: A. N. Hoyt
REG. ENGR. FLA. NO. 4270 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: Jim Smith
REG. ENGR. FLA. NO. 6647 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

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

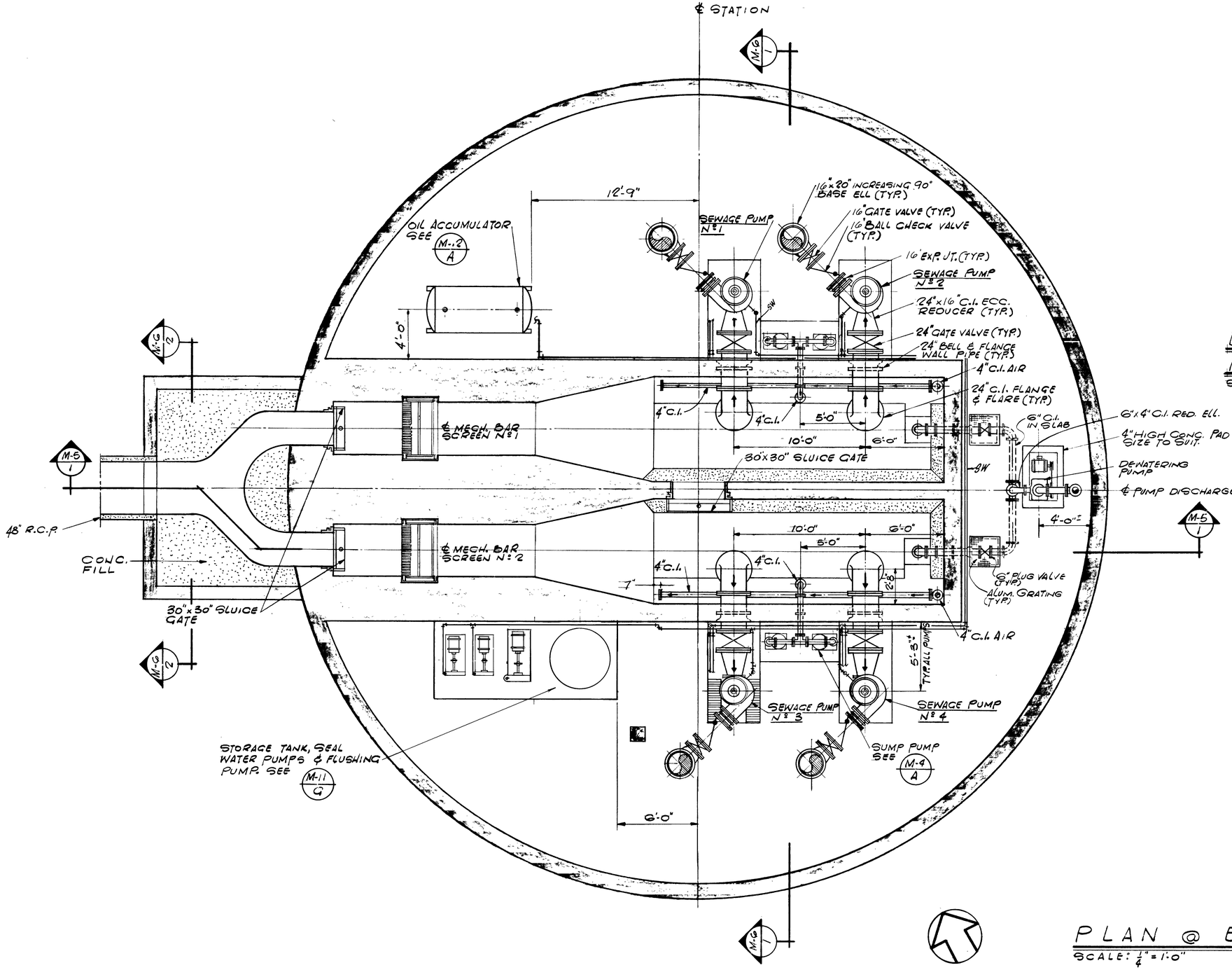
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT

DETAILED BY: SBD
CHECKED BY: RVT
SCALE AS SHOWN
DATE AUGUST 1972
7207

PLAN AT ELEV. - 2.57

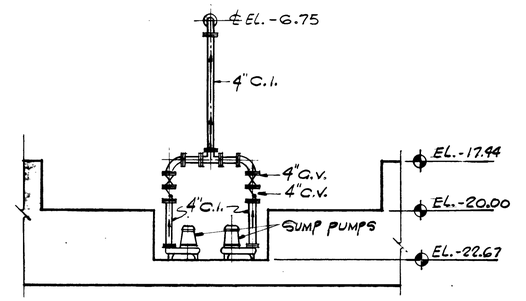
CONTR. NO. JS-24
PROJ. NO. 011-5
SHEET NO. 6 OF 43

K&E 10-1253 2-72 49357•



PLAN @ ELEV. −17.44

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



DETAIL PIPING @ SUMP PUMPS

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

M-4 / M-4 / 4

AS BUILT
APRIL 1977

M-4

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

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

APPROVED BY: [illegible] REG. ENGR. FLA. NO. 4270 DATE 2/17/73
WATER AND SEWER DIVISION
AUTHORIZED BY: [illegible] REG. ENGR. FLA. NO. 8647 DATE 2/23/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM

PHASE 2

RIVERSIDE PUMPING STATION

7640

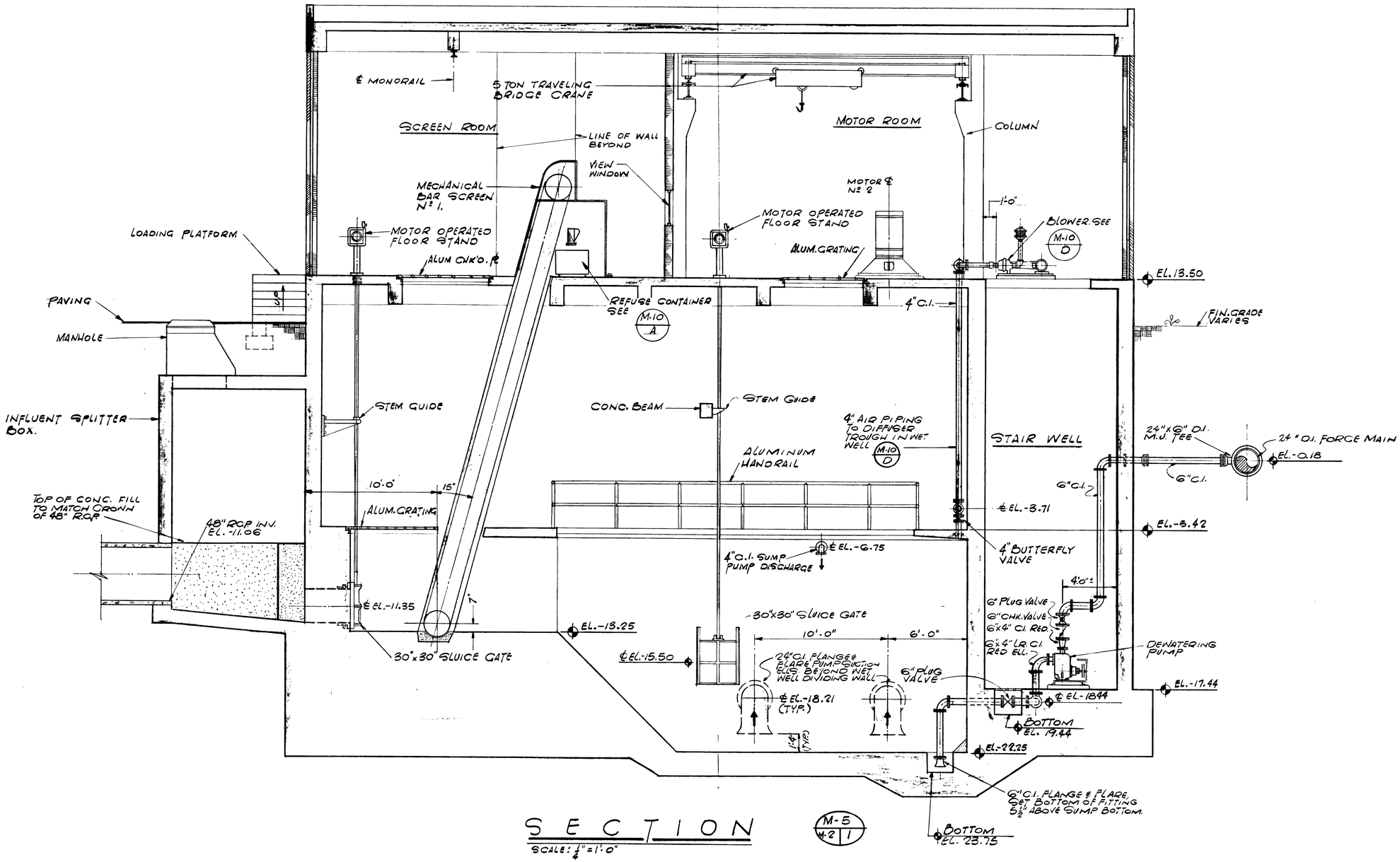
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT

DETAILED BY: SBD | SCALE: AS SHOWN | DATE: AUGUST 1972
CHECKED BY: RVT | 7207

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 7 OF 43

PLAN AT ELEV. -17.44

K&E 10-1253 2-72 49357•



SECTION

M-5 / 4-2 / 1

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

AS BUILT
APRIL 1977

M-5

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

SUBMITTED BY: Bill L Pinyard
REG. ENGR. FLA. NO. 9921 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: H Litchfield
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, Inc.

APPROVED BY: H Litchfield
REG. ENGR. FLA. NO. 4710 DATE
WATER AND SEWER DIVISION
AUTHORIZED BY: Langham
REG. ENGR. FLA. NO. 6647 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

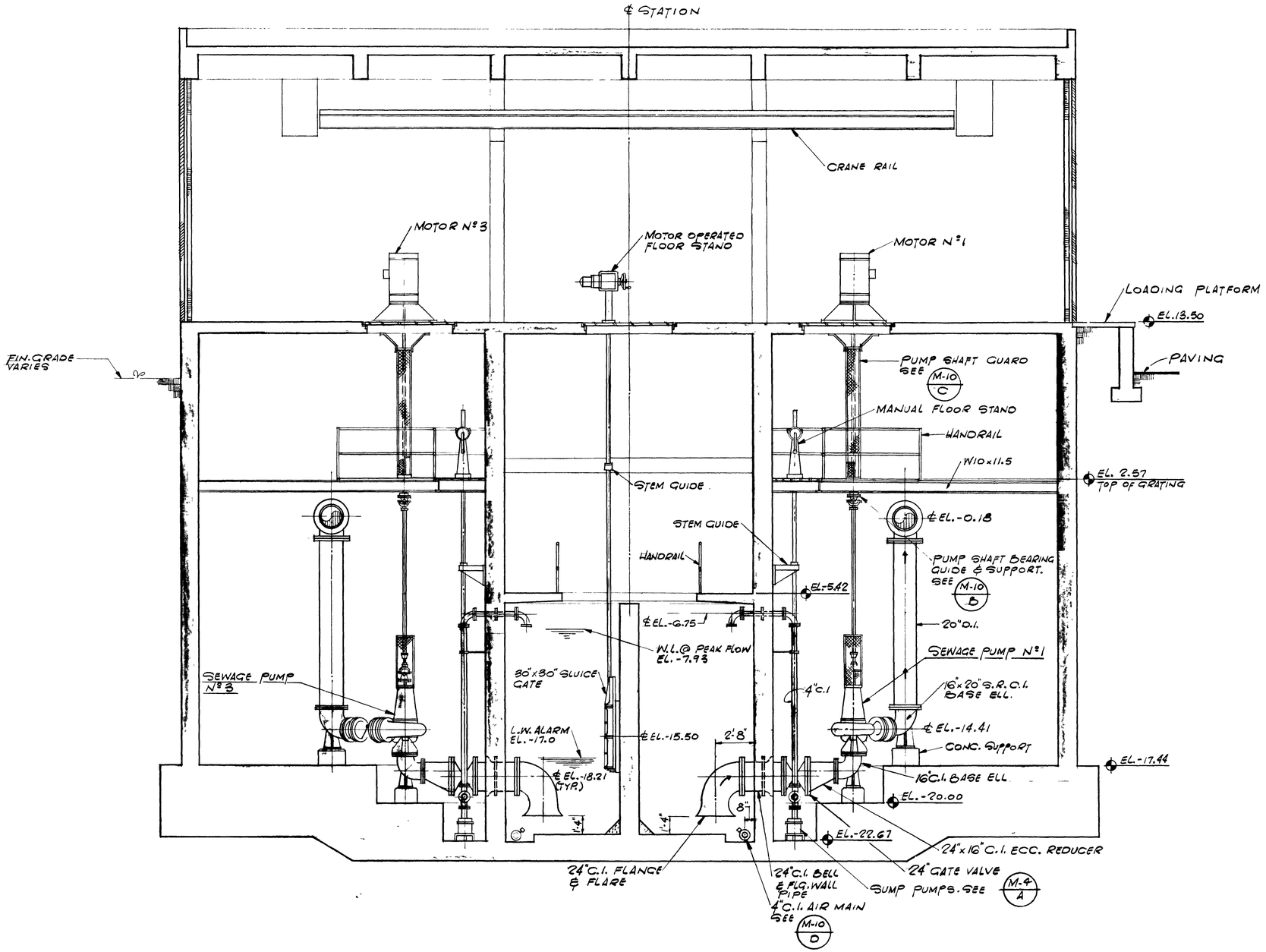
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DETAILED BY: SBD | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY: RVT | 7207

LONGITUDINAL SECTION

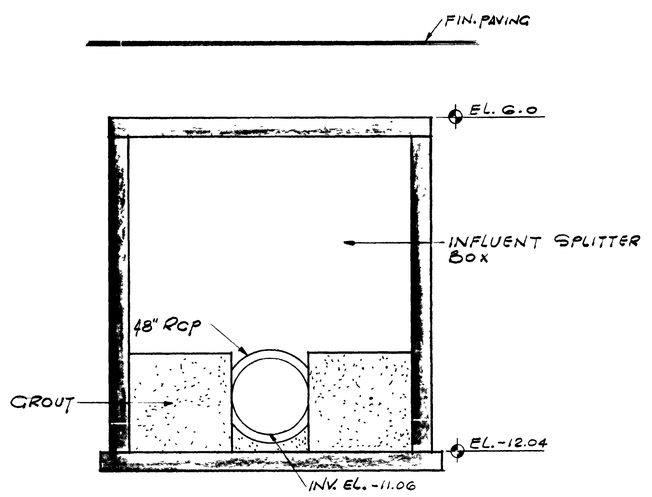
CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 8 OF 43

K&E 19-1253 2-72 49357-



SECTION (M-6 / M-2 | 1)

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



SECTION (M-6 / M-2 | 2)

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

AS BUILT
APRIL 1977

M-6

NO	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
	REVISIONS	SUBMITTAL			APPROVAL			

SUBMITTED BY Bill F. Bergquist
REG ENGR FLA NO 4921 DATE 10/72
FLOOD & ASSOCIATES, INC

APPROVAL RECOMMENDED BY H. Lucas Gilbert
REG ENGR FLA NO 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, Inc

APPROVED BY [illegible]
REG ENGR FLA NO 9270 DATE 2/73
WATER AND SEWER DIVISION

AUTHORIZED BY [illegible]
REG ENGR FLA NO 6642 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

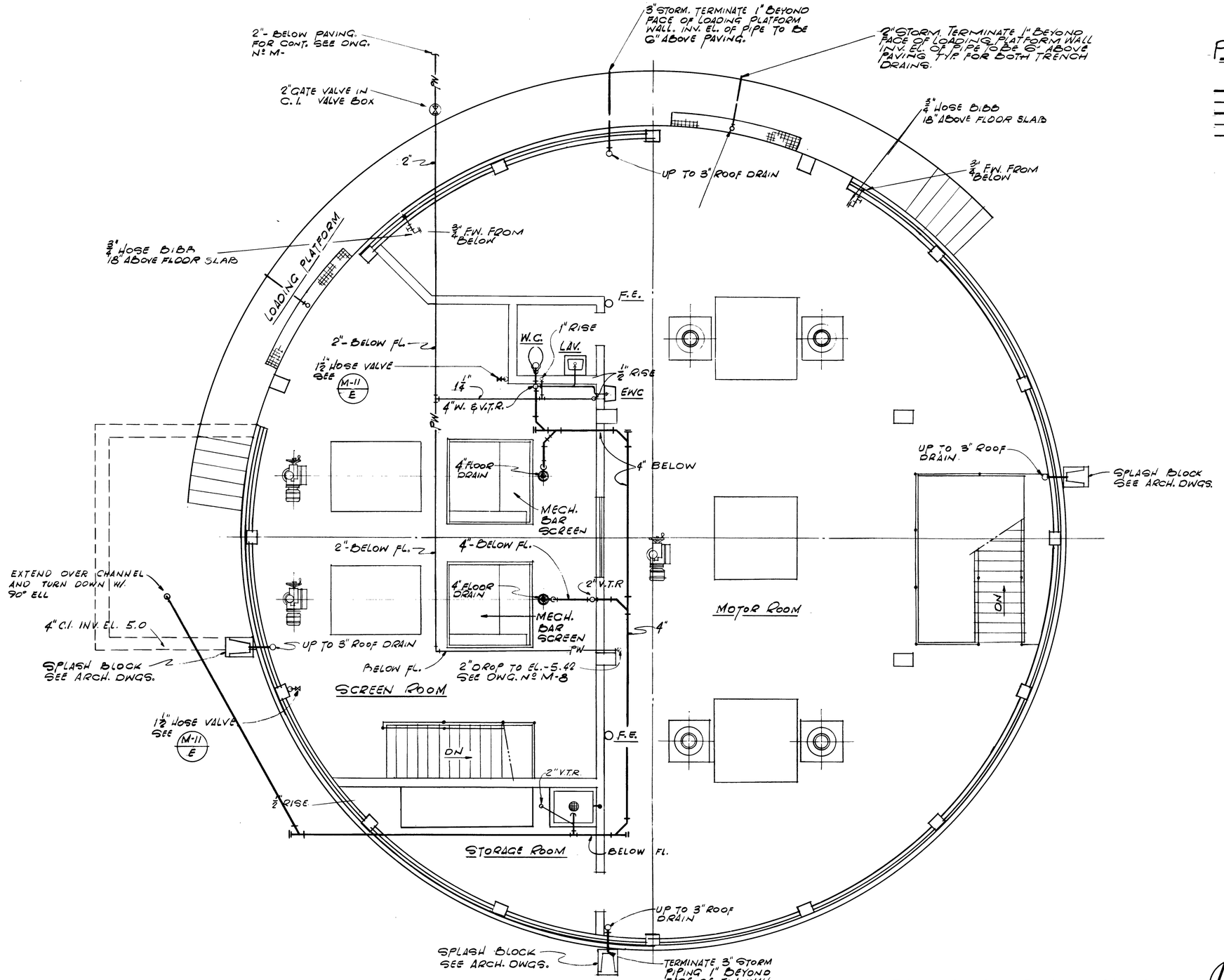
7642 3

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc --- GENERAL CONSULTANT

DETAILED BY SBD | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY RVT | 7207

CONTR NO JS-24 | PROJ NO 011-5 | SHEET NO 9 OF 43

TRANSVERSE SECTION



PLUMBING LEGEND

- SOIL OR WASTE
- VENT
- STORM
- FW — POTABLE WATER
- FW — FLUSHING WATER
- F.E. — FIRE EXTINGUISHER
- CLEANOUT BELOW FLOOR

PLUMBING PLAN : EL. 13.50

SCALE: ¼"=1'-0"

AS BUILT
APRIL 1977

7643

M-7

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

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

APPROVED BY: [illegible]
REG. ENGR. FLA. NO. 4220 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: [illegible]
REG. ENGR. FLA. NO. 6847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

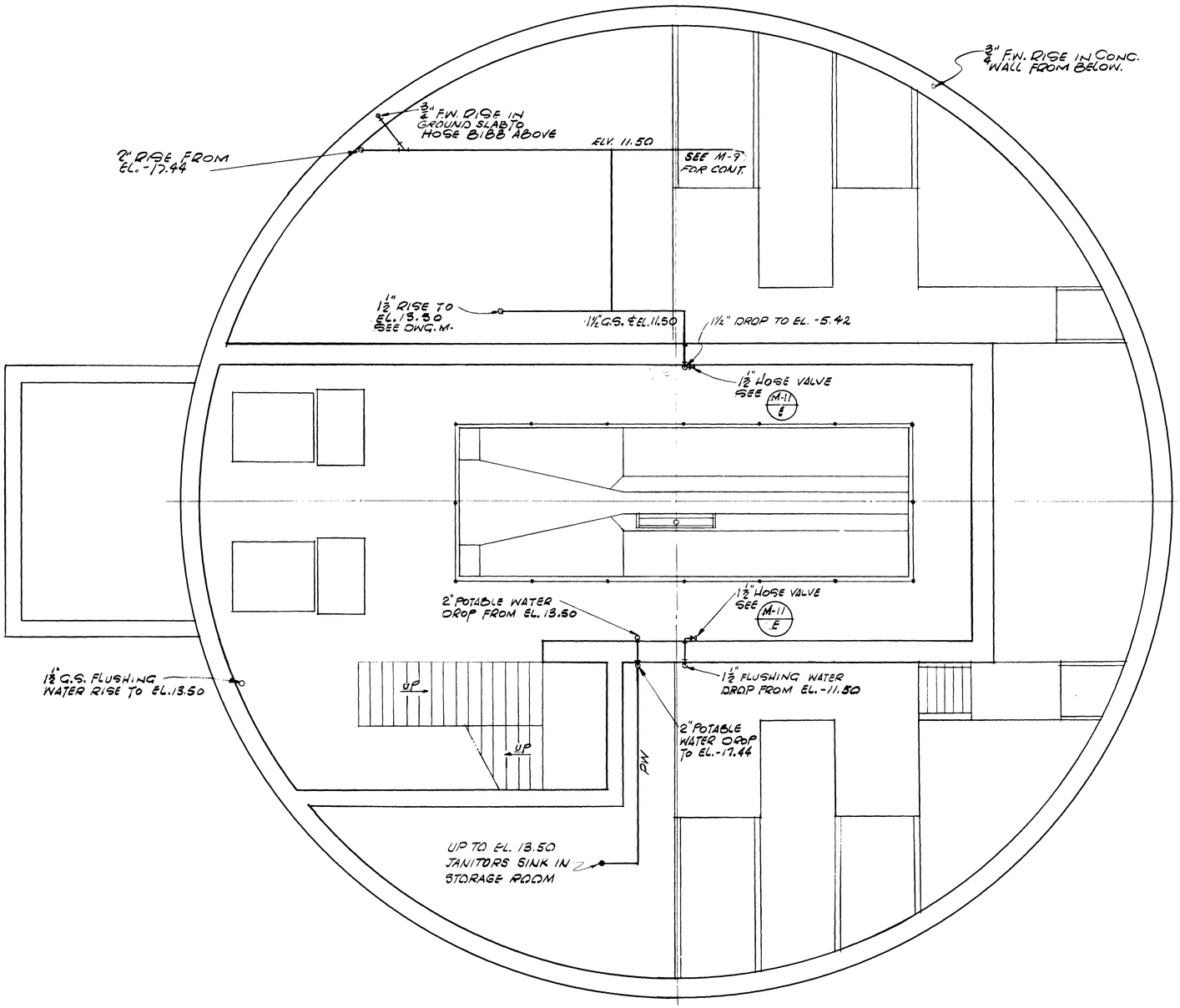
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT

DETAILED BY: SBD | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY: RVT | 7207

PLUMBING PLAN AT ELEV. 13.50

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 10 OF 43

K&E 10-1253 2-72 49357•



PLUMBING PLAN : EL. -2.57

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

7644

AS BUILT
APRIL 1977

M-8

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

SUBMITTED BY: Dan F. Pilcher
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.

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

APPROVED BY: Jan F. Hall
REG. ENGR. FLA. NO. 4270 DATE 2/73
WATER AND SEWER DIVISION

AUTHORIZED BY:
REG. ENGR. FLA. NO. 6867 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

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

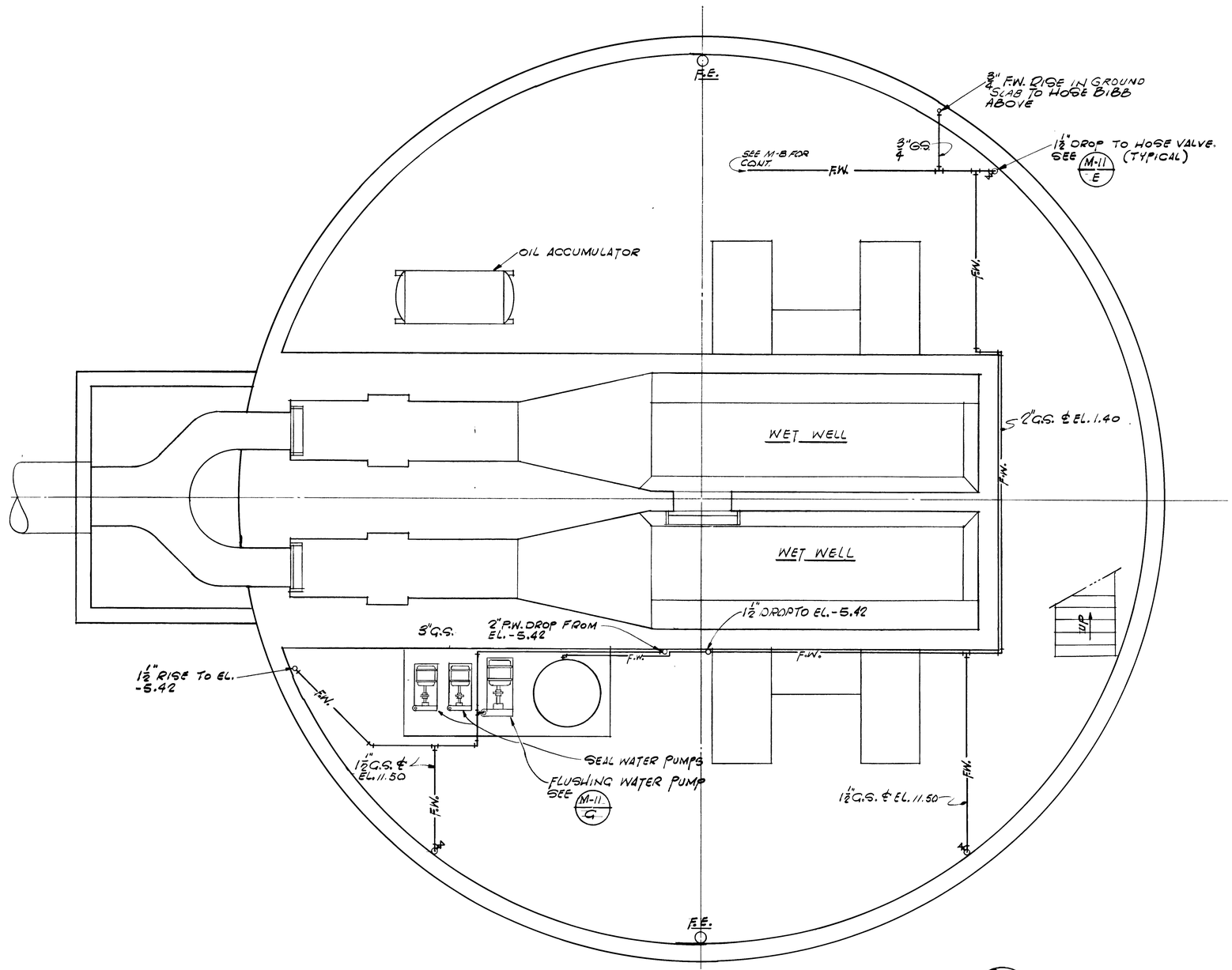
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

DETAILED BY: SBD | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY: RVT | 7207

PLUMBING PLAN AT ELEV. - 2.57

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 11 OF 43

K&E 19-1253 2-72 49357•



PLUMBING PLAN : EL. -17.44

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

AS BUILT
APRIL 1977

M-9

7645 5

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

SUBMITTED BY: Bruce F. Parrish
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: M. Littlefield
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, Inc.

APPROVED BY: A. L. N. Hyatt
REG. ENGR. FLA. NO. 4270 DATE 2-73
WATER AND SEWER DIVISION
AUTHORIZED BY: [signature]
REG. ENGR. FLA. NO. 6247 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

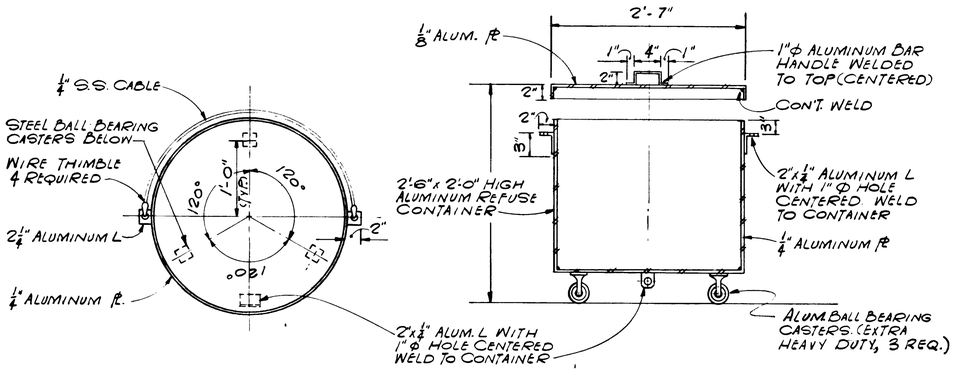
CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT
DETAILED BY: SBD | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY: RVT | 7207

PLUMBING PLAN AT ELEV. -17.44

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 12 OF 43

K&E 19-1253 2-72 49357•

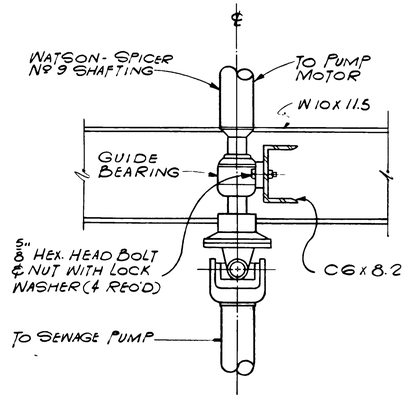


4 REQUIRED

DETAIL REFUSE CONTAINER

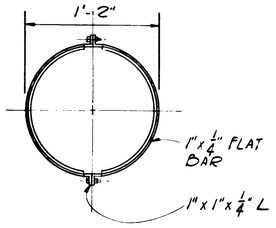
M-10 / M-5 | A

SCALE: 1" = 1'-0" (4 REQUIRED)

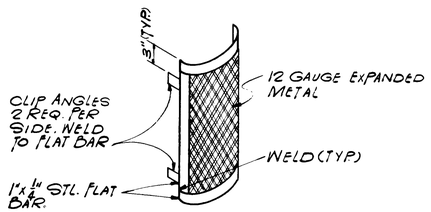


DETAIL GUIDE BEARING SUPPORT

M-10 / M-3 | B

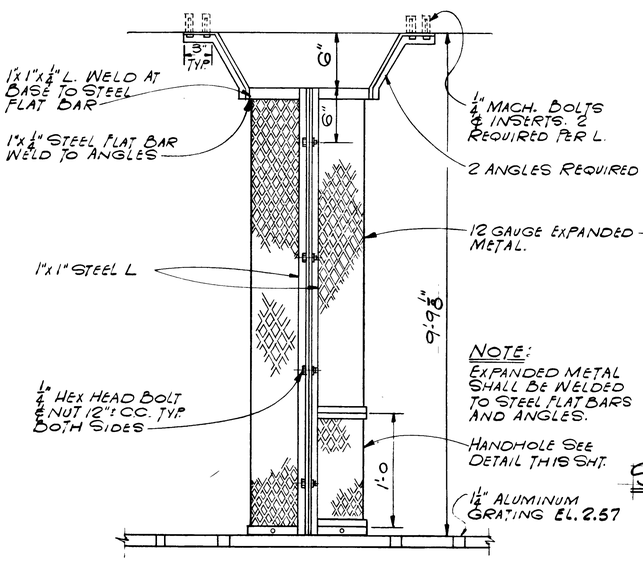


PLAN



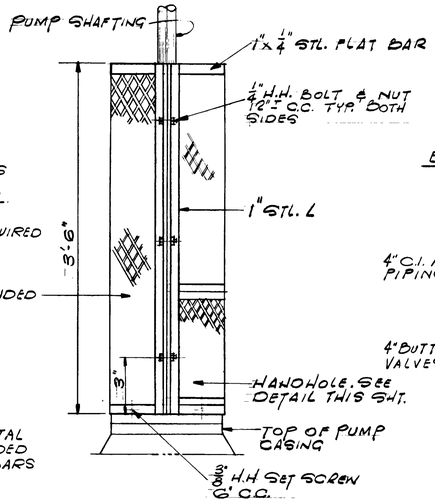
DETAIL HANDHOLE

NOT TO SCALE



NOTE:
EXPANDED METAL SHALL BE WELDED TO STEEL FLAT BARS AND ANGLES.

ELEVATION



SHAFT GUARD @ PUMP

AS BUILT
APRIL 1977

DETAIL PUMP SHAFT GUARD

M-10 / M-3 | C

NOT TO SCALE

BLOWER PIPING SCHEMATIC

M-10 / M-2 | D

NOT TO SCALE

M-10

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

SUBMITTED BY Brian L. Romanelli
REG. ENGR. FLA. NO. 9921 DATE 10/72
FLOOD & ASSOCIATES, INC.

APPROVAL RECOMMENDED BY H. Sheffield
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC

APPROVED BY C. L. Hyatt
REG. ENGR. FLA. NO. 4470 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY Dwight
REG. ENGR. FLA. NO. 6847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

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

7646 S

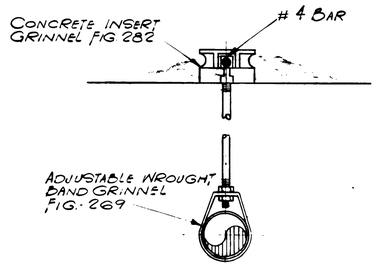
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

DETAILED BY MLN | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY RVT | 7207

SECTIONS AND DETAILS

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 13 OF 43

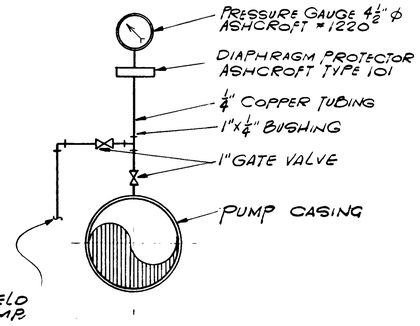
K&E 19-1253 2-72 49357-



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

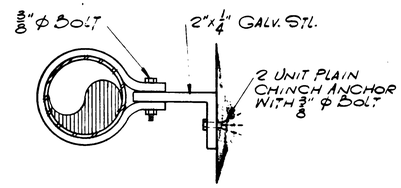
TYPICAL PIPE HANGER FOR 3/4" TO 8" PIPE DETAIL (M-11 / A)

NOT TO SCALE



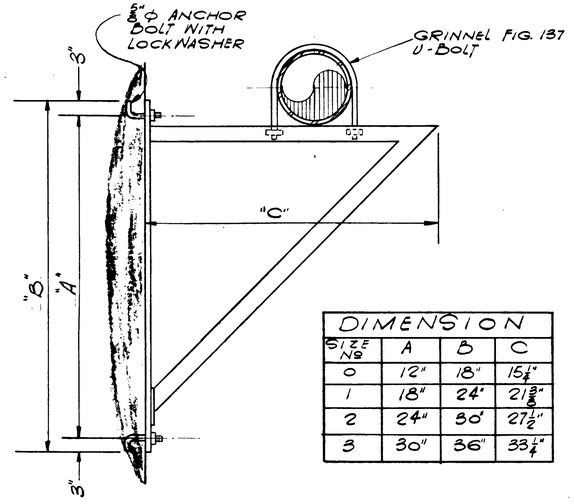
TYPICAL PRESSURE GAGE DETAIL (M-11 / B)

NOT TO SCALE



TYPICAL PIPE STAND-OFF DETAIL (M-11 / C)

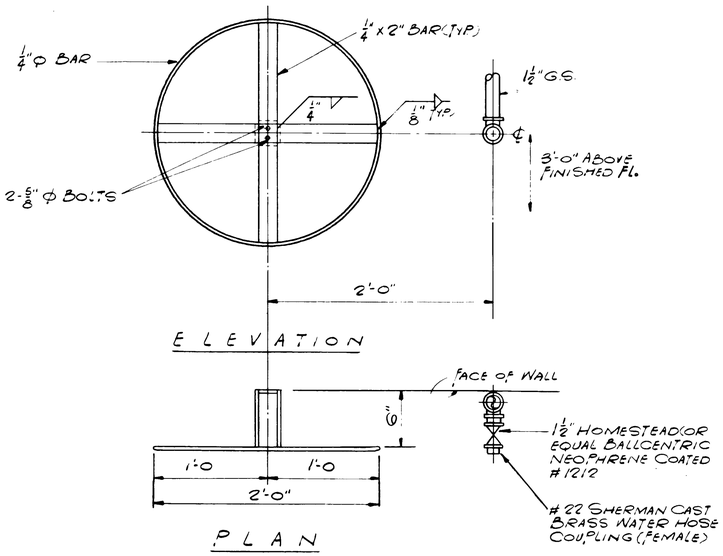
NOT TO SCALE



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"

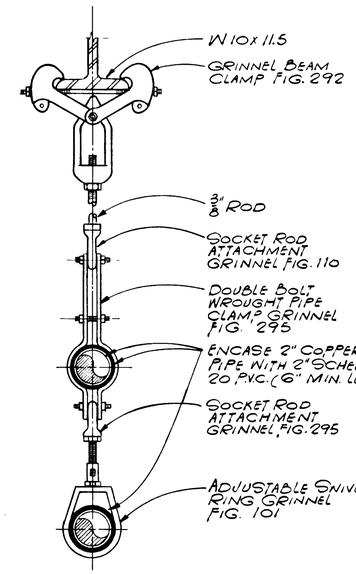
DETAIL TYPICAL WALL & PIPE BRACKET (M-11 / D)

NOT TO SCALE



HOSE STATION & REEL DETAIL (M-11 / M-7 E)

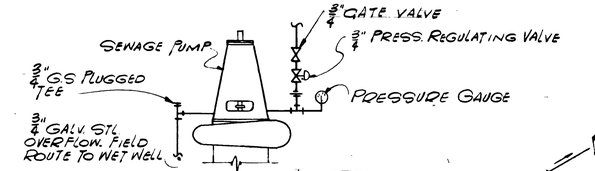
SCALE: 1 1/2" = 1'-0"



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

DETAIL TYPICAL OIL PIPING HANGER (M-11 / F)

NOT TO SCALE



DETAIL (M-11 / H)

N.T.S.

SEAL & FLUSHING WATER PUMPS PIPING SCHEMATIC (M-11 / M-4 G)

NOT TO SCALE

AS BUILT
APRIL 1977

M-11

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

SUBMITTED BY: Bruce K. Brandt
REG. ENGR. FLA. NO. 9821 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: H. Lester Sikes
REG. ENGR. FLA. NO. 9643 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: John Hyatt
REG. ENGR. FLA. NO. 4220 DATE 2/23
WATER AND SEWER DIVISION
AUTHORIZED BY: [signature]
REG. ENGR. FLA. NO. 6842 DATE 2/23
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

7647 S

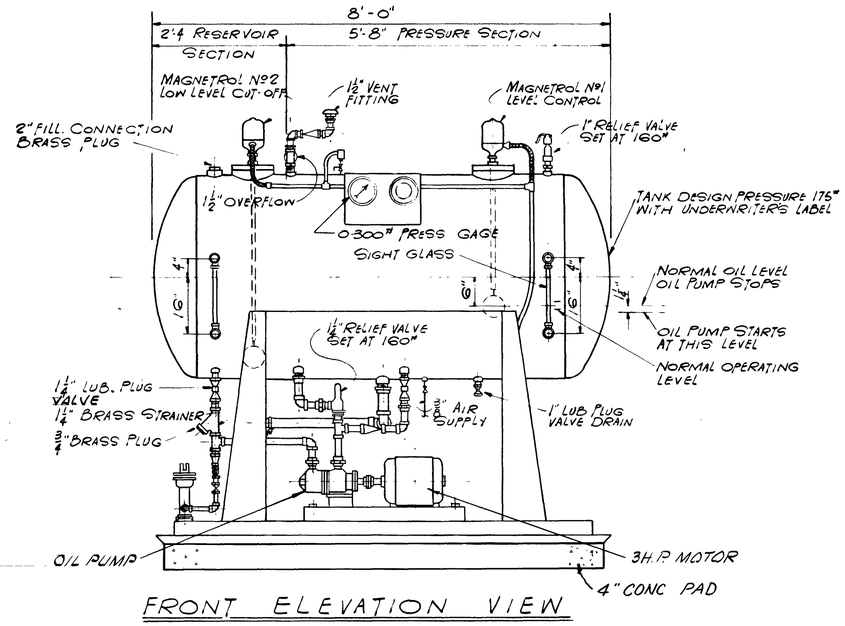
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

DETAILED BY MLN | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY RVT | 7207

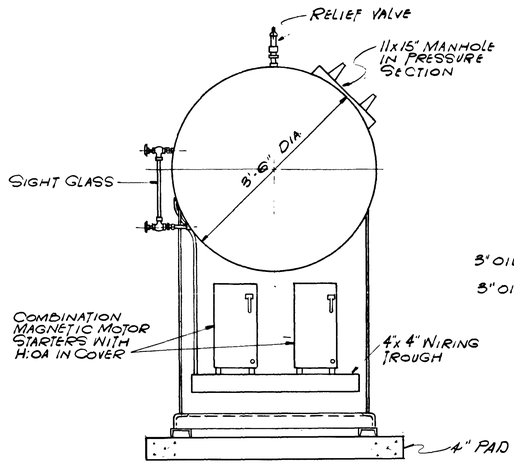
SCHEMATIC AND TYPICAL DETAILS

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 14 OF 43

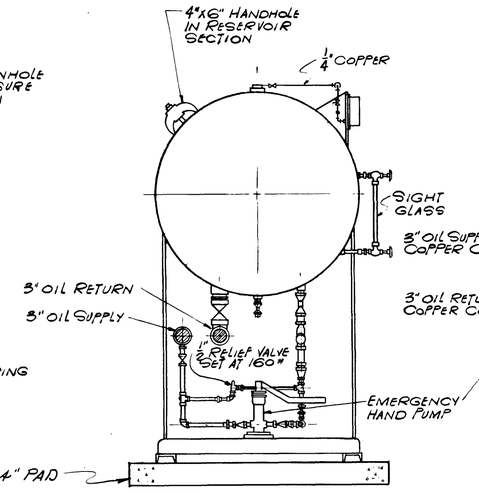
K&E 19-1253 2-72 49357-



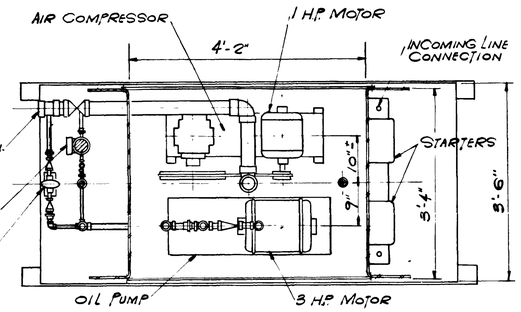
FRONT ELEVATION VIEW



RIGHT END VIEW



LEFT END VIEW

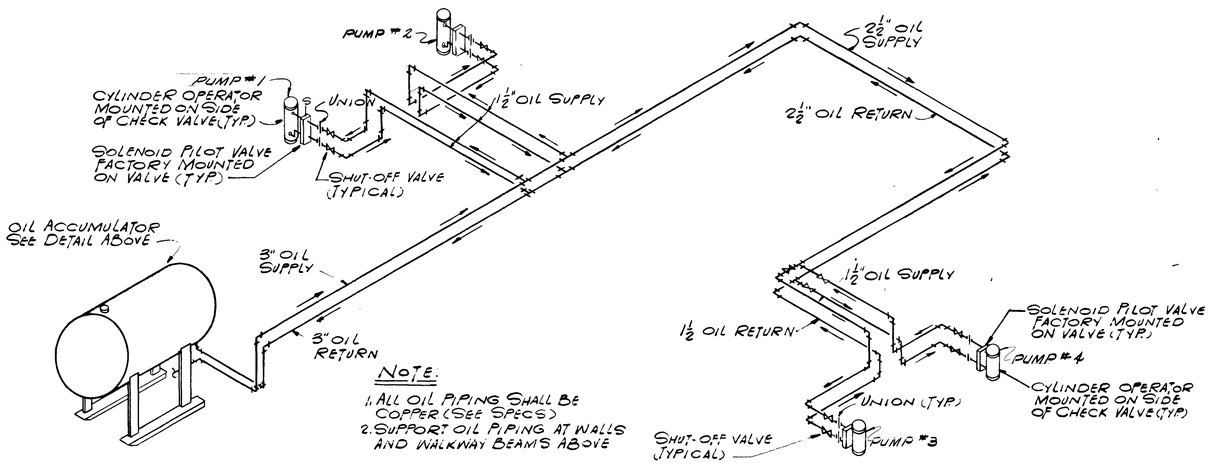


PLAN VIEW BELOW TANK

DETAIL OIL ACCUMULATOR

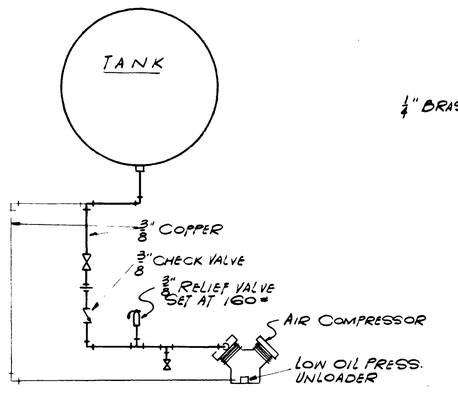
M-12 / M-4 | A

SCALE: ¾" = 1'-0"



OIL ACCUMULATOR PIPING SCHEMATIC

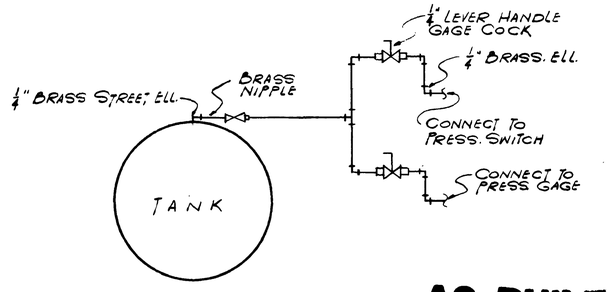
M-12 / — | B



AIR COMPRESSOR PIPING SCHEMATIC

NOT TO SCALE

M-12 / M-12 | C



GAGE PIPING SCHEMATIC

NOT TO SCALE

M-12 / M-12 | D

AS BUILT
APRIL 1977

M-12

7648 5

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

SUBMITTED BY: Bill E. Triplett
REG. ENGR. FLA. NO. 4821 DATE 10/72
FLOOD & ASSOCIATES, INC

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

APPROVED BY: Joe D. Hyatt
REG. ENGR. FLA. NO. 4270 DATE 2/73
WATER AND SEWER DIVISION

AUTHORIZED BY:
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
RIVERSIDE PUMPING STATION

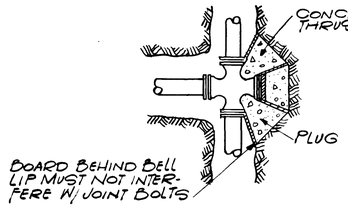
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT

DETAILED BY: MLN | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY: RVT | 7207

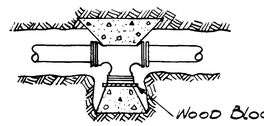
ACCUMULATOR SYSTEM

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 15 OF 43

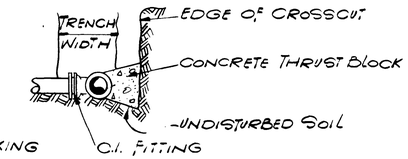
K&E 19-1253 2-72 49-1



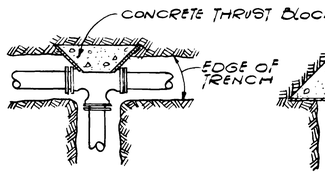
CROSS WITH PLUG



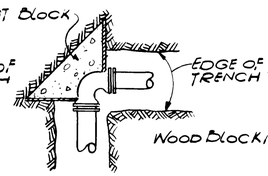
TEE WITH PLUG



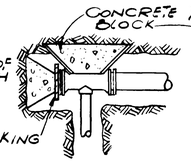
TYPICAL SECTION



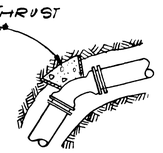
TEE



BEND



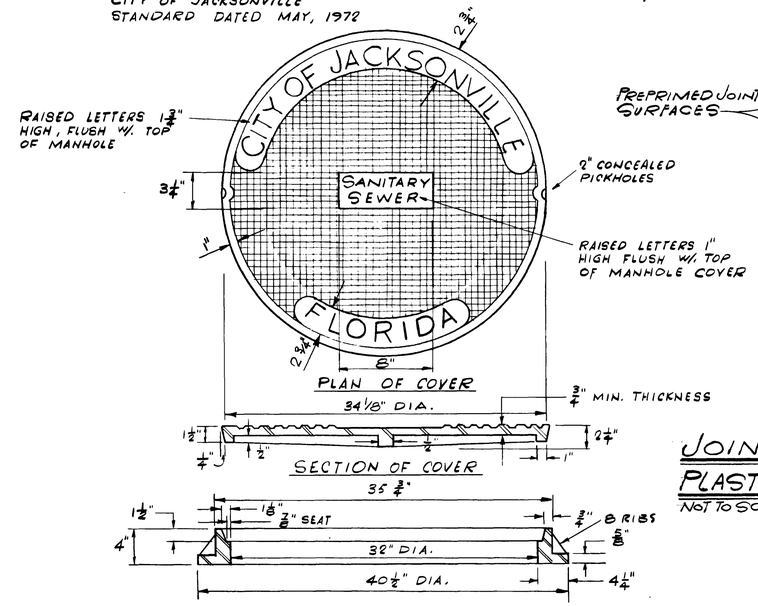
TAPPED TEE WITH PLUG



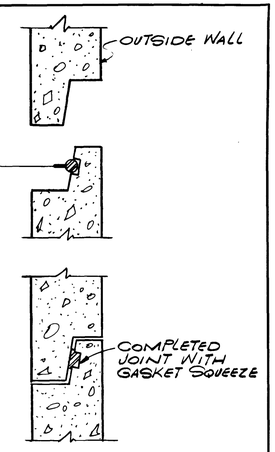
45° BEND & SMALLER

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."

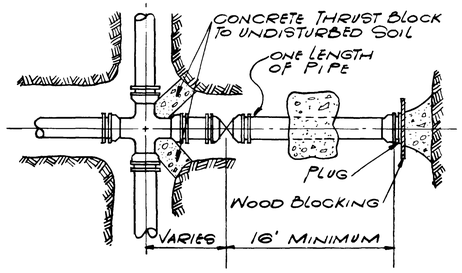
MANHOLE FRAME & COVER
CITY OF JACKSONVILLE
STANDARD DATED MAY, 1972



JOINT DETAIL
PLASTIC SEALER
NOT TO SCALE



JOINT DETAIL
"O" RING GASKET
NOT TO SCALE



MAIN WITH PLUG & STUBOUT

THRUST BLOCK SIZING

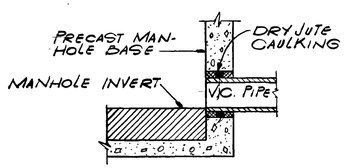
THRUST BLOCK END AREA IN SQ. FT. SHALL BE DETERMINED BY THE FOLLOWING FORMULA.

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

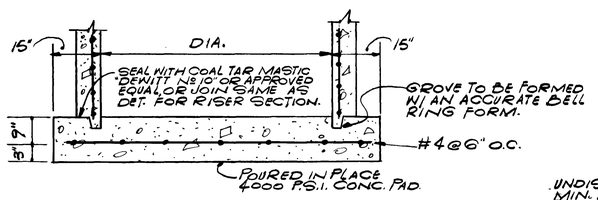
WHERE:
A = END AERA REQ'D. IN SQ. FT.
D^2 = PIPE DIAMETER, SQUARED
P = LINE PRESSURE IN P.S.I.
0.785 = CONSTANT
2500 = Soil Bearing Value.

DETAIL STANDARD MANHOLE FRAME & COVER
NOT TO SCALE

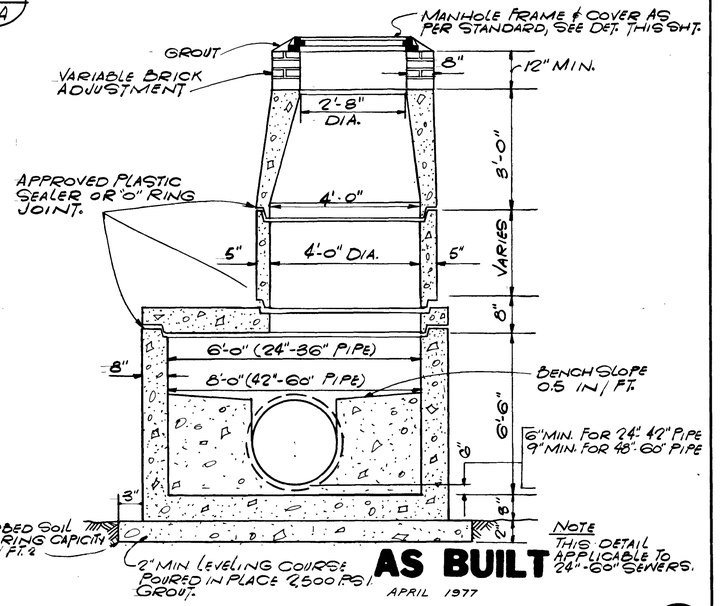
M-13
M-2 A



PRECAST MANHOLE PIPE CONNECTION
NOT TO SCALE



ALTERNATE CONSTRUCTION MANHOLE BOTTOM
NOT TO SCALE



7649

TYPE "G" MANHOLE
NOT TO SCALE

M-13

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

SUBMITTED BY: Bill L. Bourquardt
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: M. Sutterfield
REG. ENGR. FLA. NO. 9663 DATE 3/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: Dell H. Hall
REG. ENGR. FLA. NO. 4770 DATE 3/73
WATER AND SEWER DIVISION
AUTHORIZED BY: Henry Ford
REG. ENGR. FLA. NO. 6847 DATE 3/28
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. — GENERAL CONSULTANT

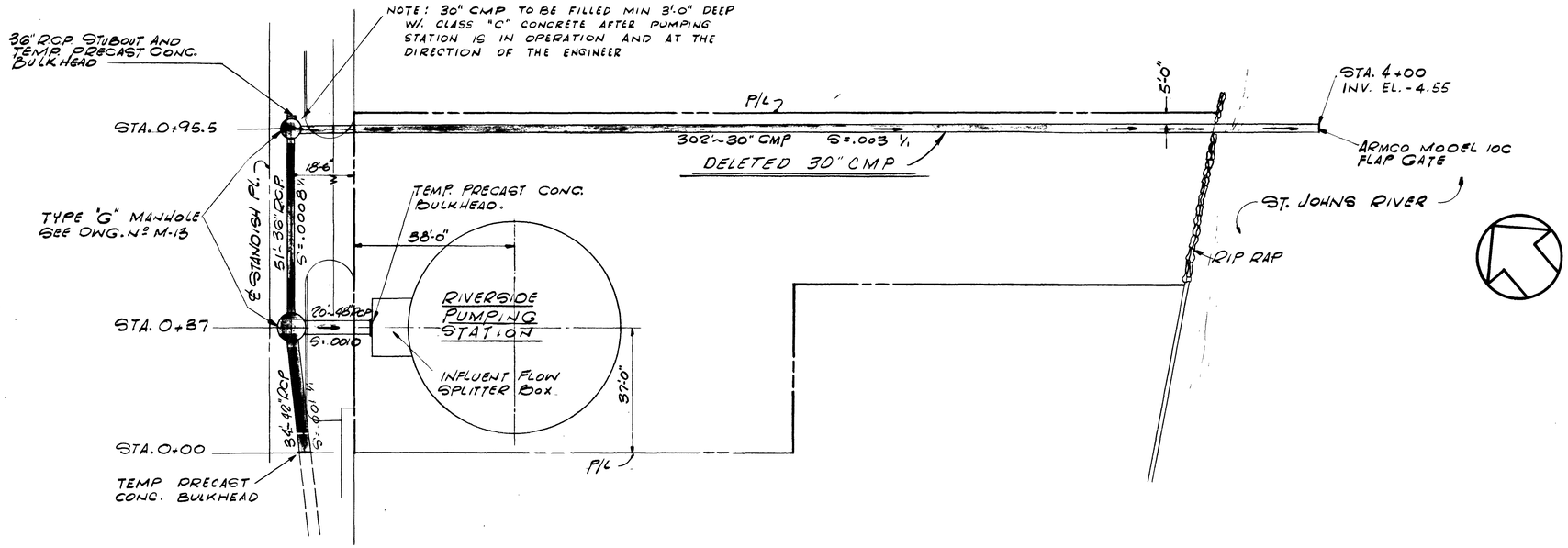
DETAILED BY: MLN
CHECKED BY: RVT
SCALE AS SHOWN
7207
DATE AUGUST 1972

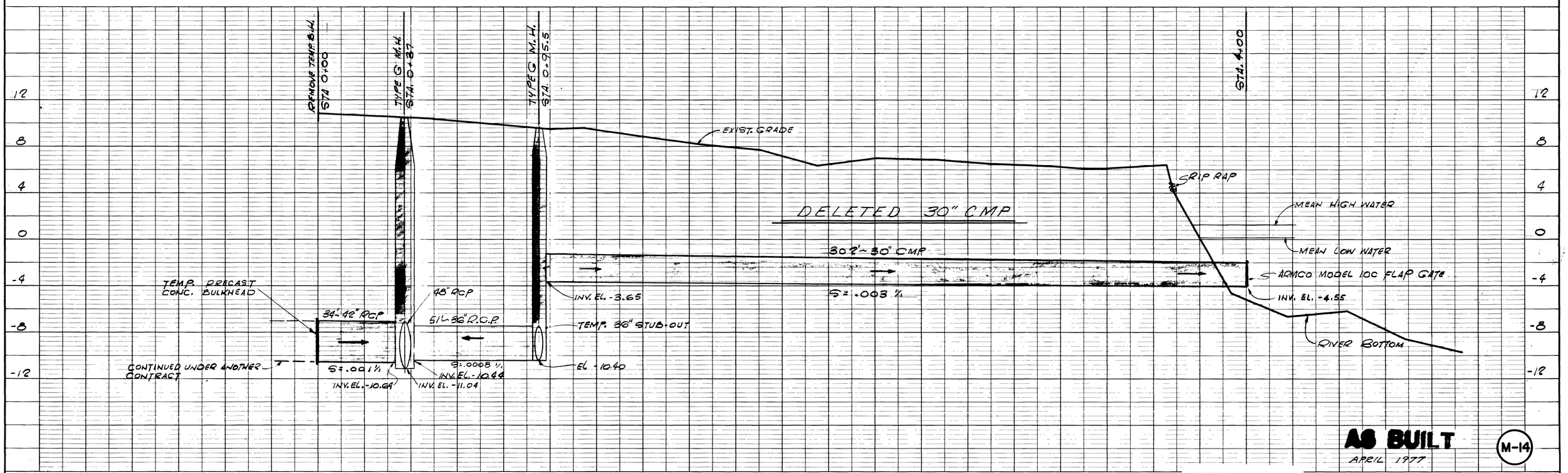
STANDARD DETAILS

CONTR. NO. JS-24
PROJ. NO. 011-4
SHEET NO. 16 OF 43

K&E 10-1253 2-72 46357•

SCALE: 1"= 20' HORIZONTAL
1"= 4' VERTICAL





AS BUILT
APRIL 1977

M-14

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

SUBMITTED BY: Dale F. Sturgeon
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: M. Littlefield
REG. ENGR. FLA. NO. 9263 DATE 3/73
SVERDRUP & PARCEL AND ASSOCIATES, Inc.

APPROVED BY: John N. Hyatt
REG. ENGR. FLA. NO. 4770 DATE 3/23/73
WATER AND SEWER DIVISION
AUTHORIZED BY: [signature]
REG. ENGR. FLA. NO. 6647 DATE 3/23/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

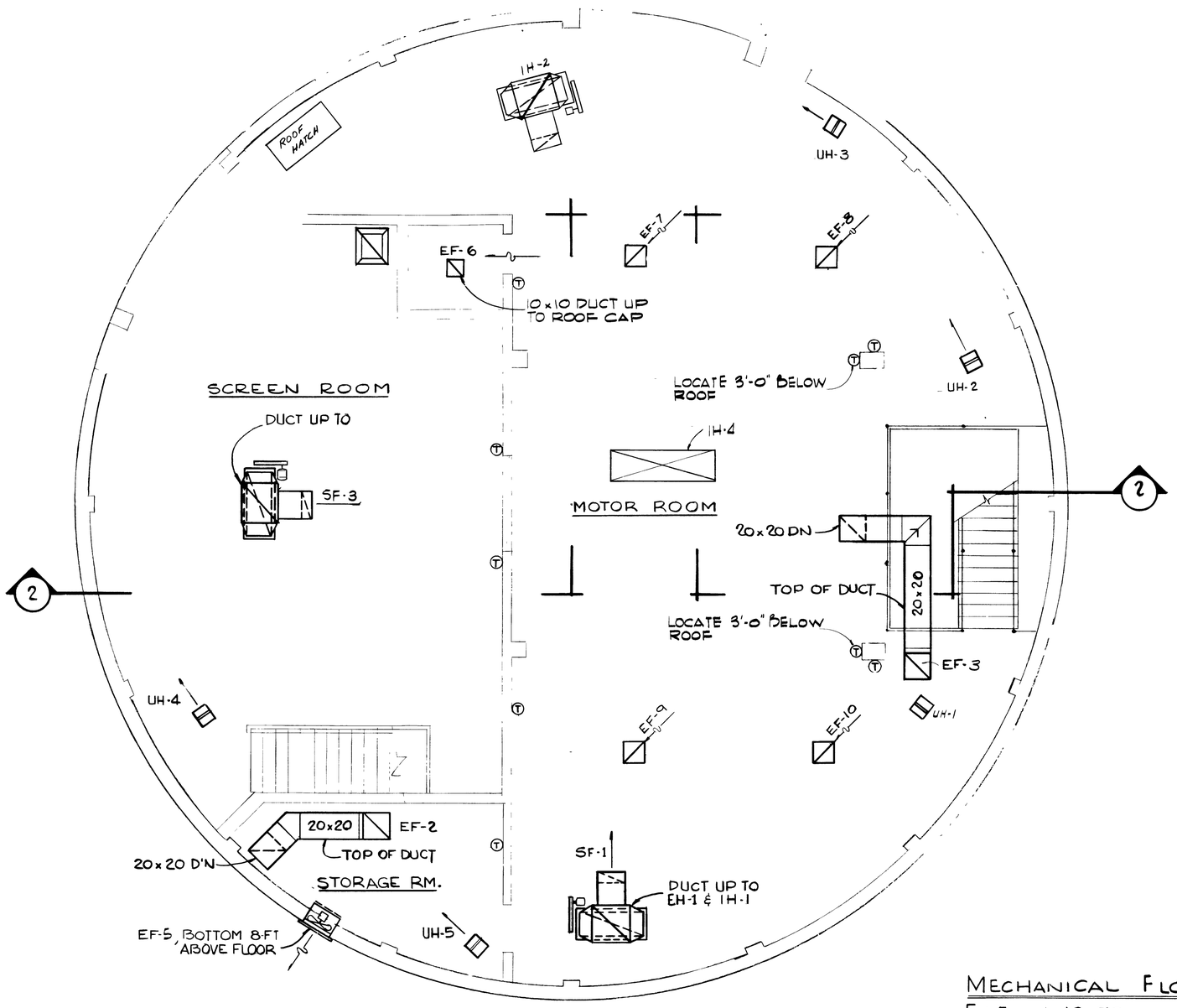
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CHECKED BY: RVT | 7207

7650

INFLUENT AND TEMPORARY SEWER PLAN & PROFILE

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 17 OF 43

K&E 10 1253 8-71 47150-



MECHANICAL FLOOR PLAN AT ELEV. + 13.50

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

AS BUILT
APRIL 1977

M-15

7651

NO	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
	REVISIONS	SUBMITTAL			APPROVAL			

SUBMITTED BY Dell + Pittman
REG ENGR FLA NO 1921 DATE 10/72
FLOOD & ASSOCIATES, INC
APPROVAL RECOMMENDED BY H Lee Turlington
REG ENGR FLA NO 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC

APPROVED BY H H Hyde
REG ENGR FLA NO 4270 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY Stanton
REG ENGR FLA NO 6642 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

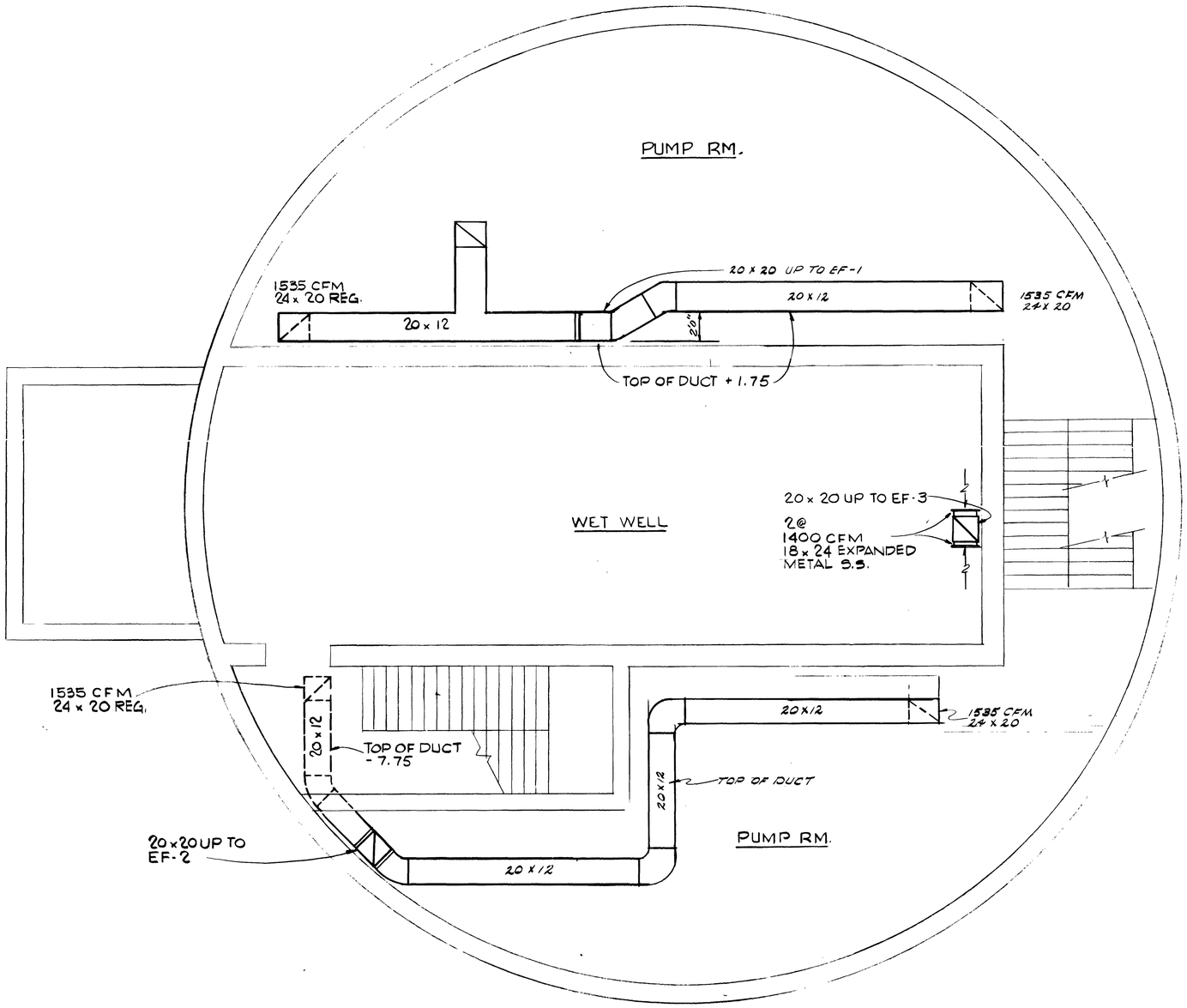
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC --- GENERAL CONSULTANT

DETAILED BY LE | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY RM | 7207

HEATING AND VENTILATION FLOOR PLAN AT ELEV. 13.50

CONTR NO JS-24 | PROJ NO 011-5 | SHEET NO 18 OF 43

K&E 19 1253 2 72 49357•



MECHANICAL FLOOR PLAN
AT ELEV. -5.42
SCALE: 1/4" = 1'-0"

AS BUILT
APRIL 1977

M-16

7652 5

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

SUBMITTED BY: Dan L. Prescott
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: M. Lee Pullo
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: [illegible]
REG. ENGR. FLA. NO. [illegible] DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: J. Berryhill
REG. ENGR. FLA. NO. 6847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

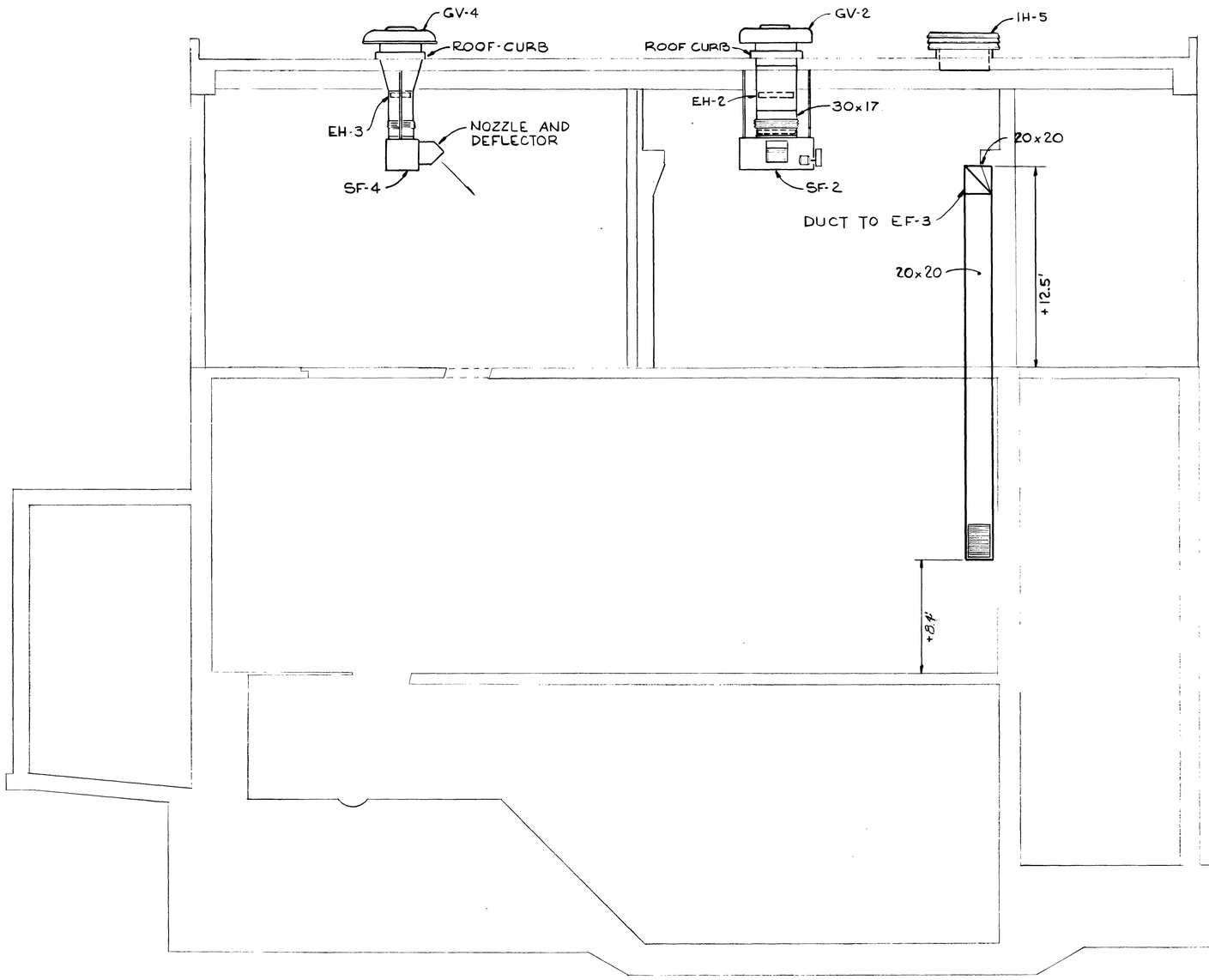
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. — GENERAL CONSULTANT

DETAILED BY: LE | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY: RM | 7207

HEATING AND VENTILATION FLOOR PLAN AT ELEV. 542

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 19 OF 43



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

OUTSIDE AIR INTAKE HOOD SCHEDULE

NO.	LOCATION	CFM	MANF.	MODEL	S.P.	REMARKS
IH-1	MOTOR RM	3,075	PENN	DRR	.06	BRDSCRN, SELF FLASH. CURB
IH-2	"	"	"	"	"	" " " "
IH-3	SCREEN RM	2600	"	DRC	.10	" " " "
IH-4	MOTOR RM	15,050	"	PENNHOUSE	.175	" " " "

ELECTRIC DUCT HEATER SCHEDULE

HEATER NO.	SERVES	STEPS	KW	A.C. UNIT	REMARKS
EH-1	MOTOR RM.	3	24	SF-1	
EH-2	MOTOR RM.	3	24	SF-2	

ELECTRIC UNIT HEATER SCHEDULE

UNIT NO.	KW	MANUF.	MODEL		REMARKS
UH-1	7.5	MARKEL	P3E1507CA		
UH-2	7.5	"	"		
UH-3	5.0	"	P3E1505CA		
UH-5	3.0		P3E1503CA		

AS BUILT
APRIL 1977

FAN SCHEDULE

FAN No.	LOCATION	SERVES	FAN TYPE	CFM	EXT. S.P. IN. W.G.	MAX. R.P.M.	FAN H.P.	DRIVE	INTERLOCK	MANF.	TYPE	MODEL No.	REMARKS
SF-1	MOTOR R'M.	MOTOR R'M.	CENTRIFUGAL	3,075	0.5	755	1	V-BELT	EF-2	TRANE	CABINET FAN	T6	ARR. U-VIV, FLAT FILTER, No.3 NOZZLE, No.14 DEFLECTOR
SF-2	MOTOR R'M.	MOTOR R'M.	"	3,075	0.5	755	1	"	EF-1	"	" "	T6	" " " "
SF-3	SCREEN R'M.	SCREEN R'M.	"	"	0.5	701	3/4	"	EF-3	"	" "	T6	" " " "
EF-1	MOTOR R'M.	PUMP R'M.	"	"	0.25	880	3/4	"	SF-2	PENN	PRV	CB-051	BIRDSCREEN, BACKDRAFT DAMPER, DISC. SW., SELF-FLASHING CURB
EF-2	STORAGE R'M.	PUMP R'M.	"	2,950	0.25	880	3/4	"	SF-1	"	PRV	CB-051	" " " "
EF-3	MOTOR R'M.	WET WELL	"	2,800	0.25	850	1/2	"	SF-3	"	PRV	CB-051	" " " "
EF-5	STORAGE R'M.	STORAGE R'M	PROPELLER	200	0.0	1,550	1/25	DIRECT		PENN	WALL FAN	WXR-60	BIRDSCREEN, BACKDRAFT DAMPER
EF-6	WASHROOM	WASHROOM	CENTRIFUGAL	50	0.1	1,050	1/25	DIRECT		PENN	ZEPHYR	Z-6	10FR ROOF CAP
EF-7,8,9,10	MOTOR R'M.	MOTOR R'M.	CENTRIFUGAL	3,700	0.125	660	1/3	V-BELT		COOLAIR	PRV	XBE2433Q	BIRDSCREEN, BACKDRAFT DAMPER, DISC SW., PFC-1 CURB

7653 S

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

SUBMITTED BY: Bill F. Terry, Asst
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: W. Lester Pickard
REG. ENGR. FLA. NO. 9663 DATE 9/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: Jack N. Heath
REG. ENGR. FLA. NO. 4270 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: John Lash
REG. ENGR. FLA. NO. 6845 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

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

DETAILED BY: LE
CHECKED BY: RM
SCALE AS SHOWN
DATE AUGUST 1972
7207

HEATING AND VENTILATION SCHEDULES AND SECTION

M-17

CONTR. NO. JS-24
PROJ. NO. 011-5
SHEET NO. 20 OF 43

K&E 19-1253 2-72 49357•

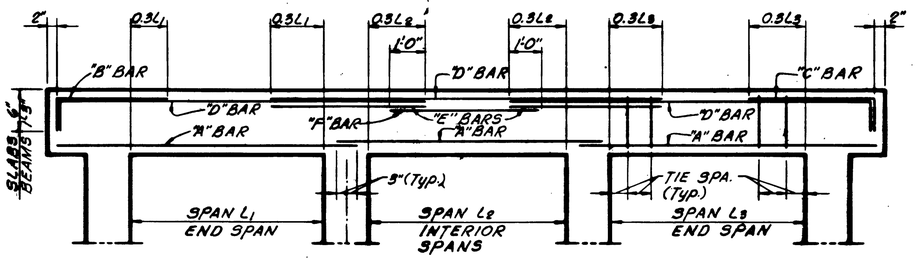
DESIGN CRITERIA

(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 A.C.I.) f'c = AS SPECIFIED.
   - STRUCTURAL STEEL (DESIGN PER CURRENT EDITION A.I.S.C.)
   - SOIL BEARING DESIGN MAXIMUM) -- 2,000# / SQ. FT.

GENERAL STRUCTURAL NOTES

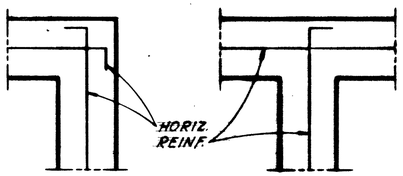
1. CONCRETE FOR SIDEWALKS & FILL SHALL BE CLASS "C". ALL OTHERS SHALL BE CLASS "A". SEE SPECIFICATIONS FOR MIX DESIGN STRENGTH.
2. UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:
   - FOOTINGS ---------- 3"
   - SURFACES CONTACTING LIQUID ---------- 2"
   - COLUMNS & PEDESTALS (OVER VERT. REINF.) --- 2"
   - WALLS ---------- 2"
   - SLABS ---------- ¾"
   - BEAMS (OVER MAIN REINF) ---------- 1½"
   - 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 ½" 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 SLEVES 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 ¾" 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 50FT. o.c. MAX. IN ANY DIRECTION, UNLESS OTHERWISE APPROVED BY THE ENGINEER.



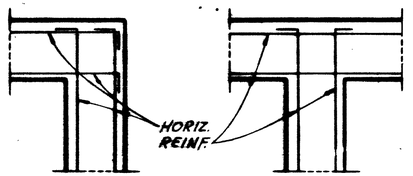
BEAM AND SLAB BENDING DIAGRAM
NO SCALE

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 1½ 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.



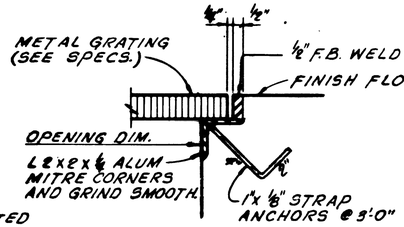
SINGLE LAYER



2 - LAYERS

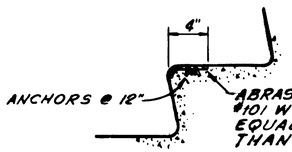
TYPICAL CONCRETE WALL CORNER DETAILS
SCALE: ¾" = 1'0"

NOTE:
ALL HOOKS ARE STANDARD 90°

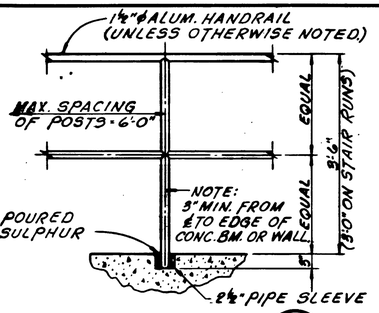


NOTE: ALL GRATING AND FRAMES ARE ALUMINUM UNLESS SPECIFICALLY SHOWN OTHERWISE.

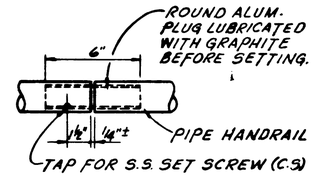
TYPICAL GRATING DETAIL S-1 / D
NO SCALE
(DIMENSIONS SHOWN ON DWG'S ARE CLEAR OPENINGS)



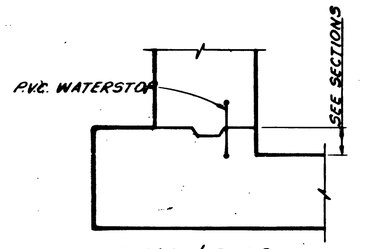
TYPICAL DETAIL CONCRETE STAIR NOSING S-1 / E
NO SCALE



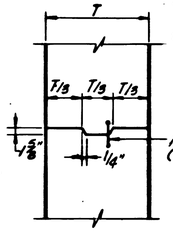
HANDRAIL DETAIL S-1 / A
SCALE: ¾" = 1'0"



HANDRAIL EXPANSION JOINT DETAIL S-1 / B
TYPICAL @ 25'0.C. ± MAX. (TOP AND BOTTOM RAIL)



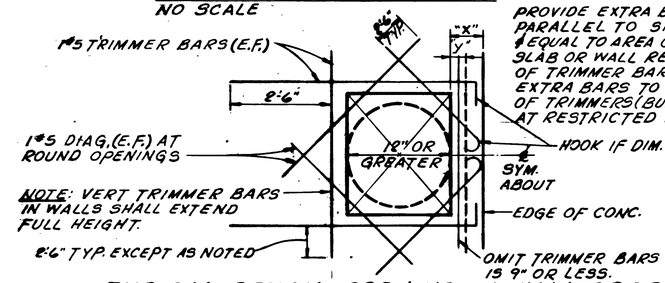
WALL & SLAB



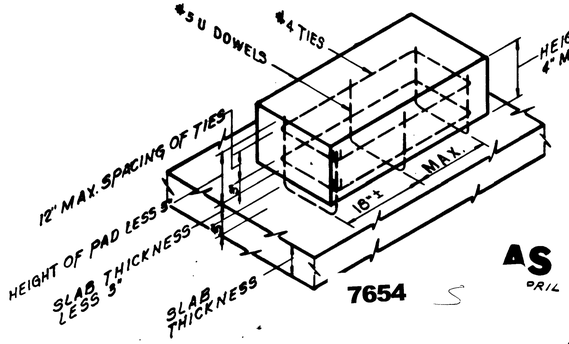
TYPICAL KEY

NOTES:
1. REINF. TO CONTINUE THRU - CONST. JTS.
2. SEE PLANS FOR LOCATIONS OF JTS. THE USE OF DIFFERENT LOCATIONS MUST BE APPROVED BY THE ENGINEER.

TYPICAL JOINT DETAILS
NO SCALE



TYPICAL DETAIL - OPENING IN WALL OR SLAB S-1 / C
NO SCALE



AS BUILT
APRIL 1977
7654

TYPICAL EQUIPMENT PAD DETAIL S-1 / F
NO SCALE

S-1

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

SUBMITTED BY: L. Thomas Hulbert
REG. ENGR. FLA. NO. 6634 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: H. Lindsey Hall
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, Inc.

APPROVED BY: H. Hoyt
REG. ENGR. FLA. NO. 4700 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: Doug Conner
REG. ENGR. FLA. NO. 12622 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

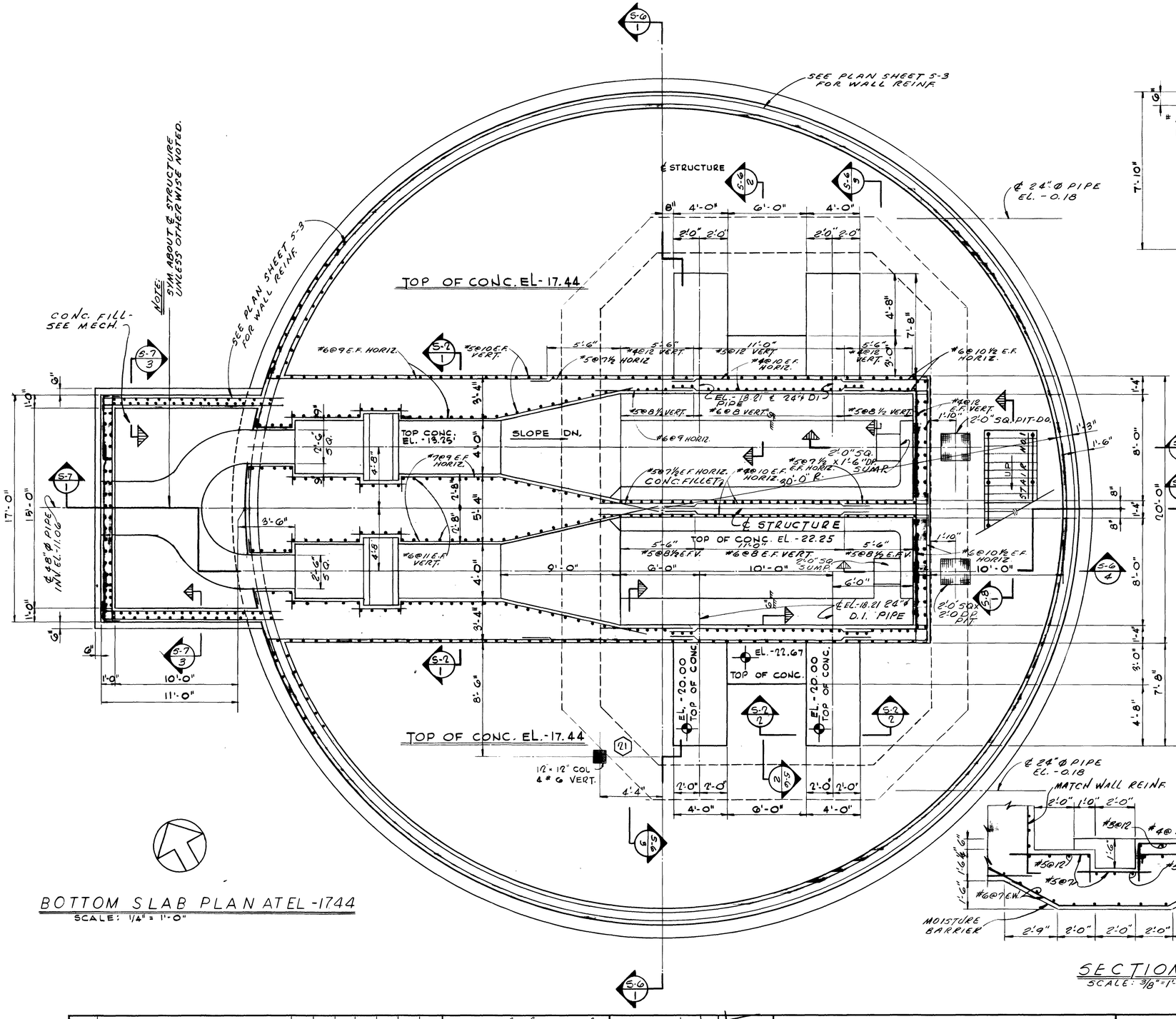
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. — GENERAL CONSULTANT

DETAILED BY: TAL | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY: LTH | 7207

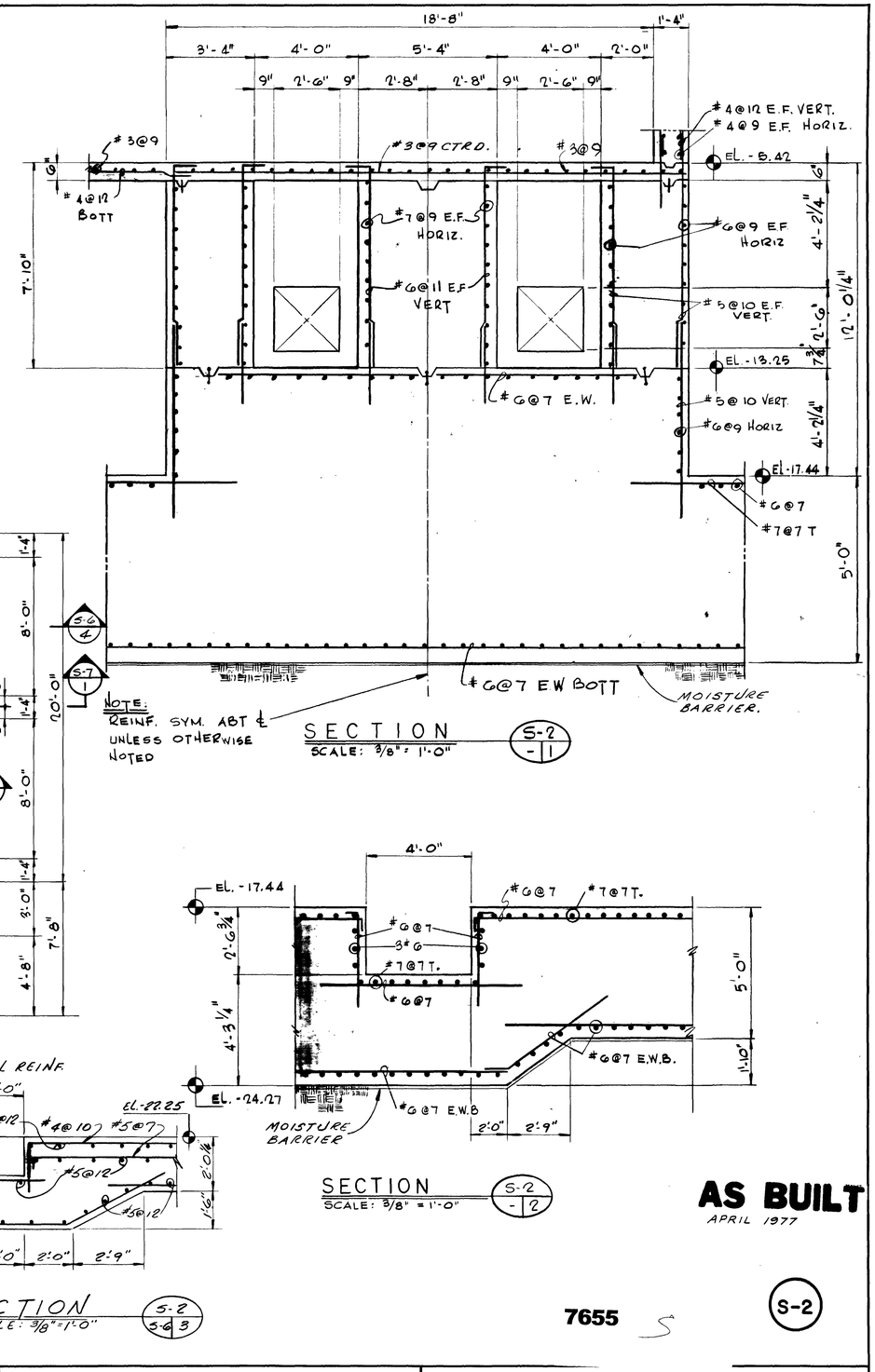
GENERAL NOTES & TYPICAL DETAILS

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 21 OF 43



BOTTOM SLAB PLAN AT EL -1744

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



NOTE:
REINF. SYM. ABT ℄ UNLESS OTHERWISE NOTED

SECTION

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

S-2 / -1

SECTION

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

S-2 / -2

SECTION

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

5-2 / 5-6 3

AS BUILT

APRIL 1977

7655

S-2

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

SUBMITTED BY: L Thomas/dsb
REG. ENGR. FLA. NO. 6634 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: H Littlefield
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: H Hyatt
REG. ENGR. FLA. NO. 4270 DATE 2/73
AUTHORIZED BY: C Ingram
REG. ENGR. FLA. NO. 4247 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

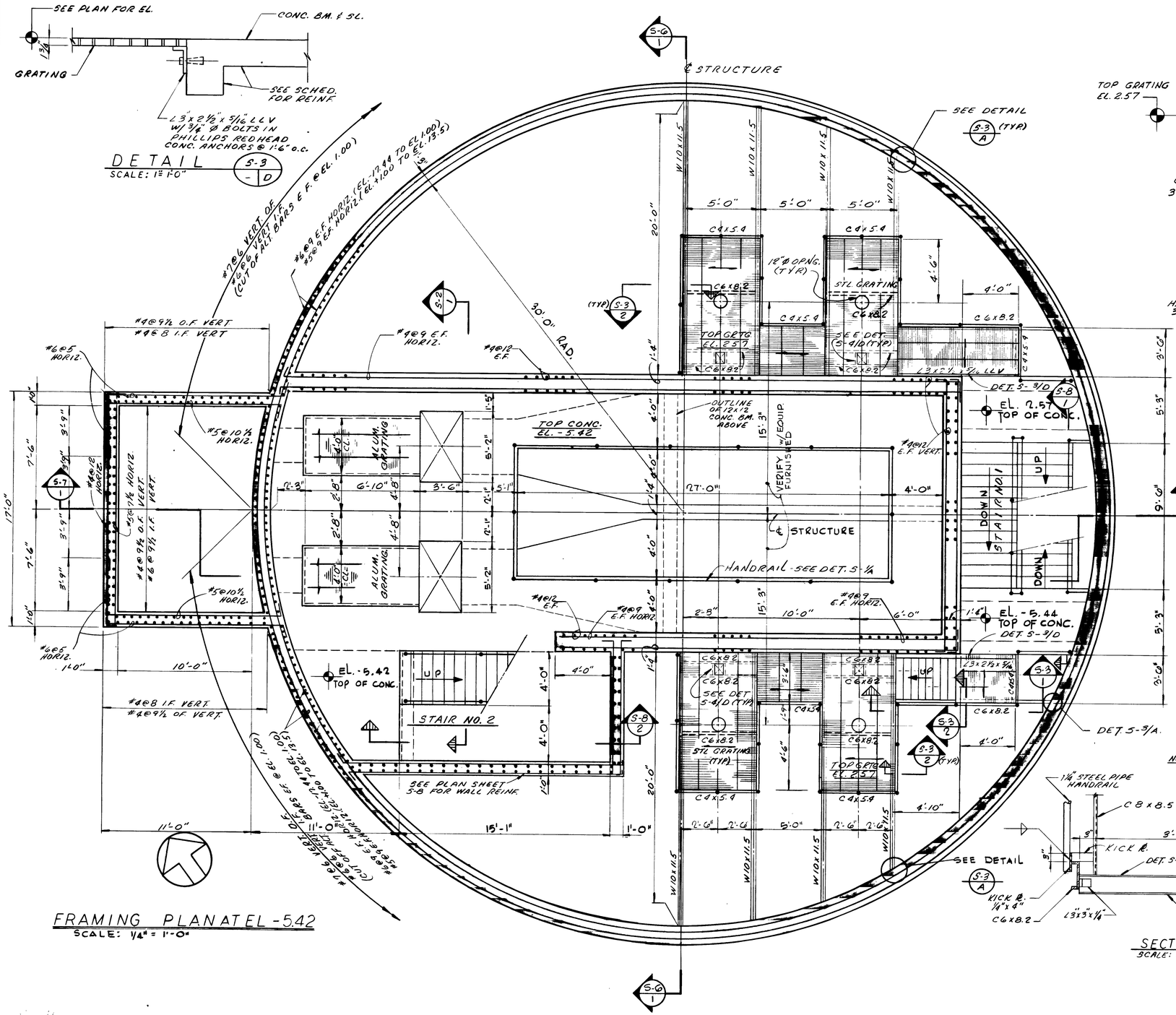
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

DETAILED BY: CD | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY: LTH | 7207

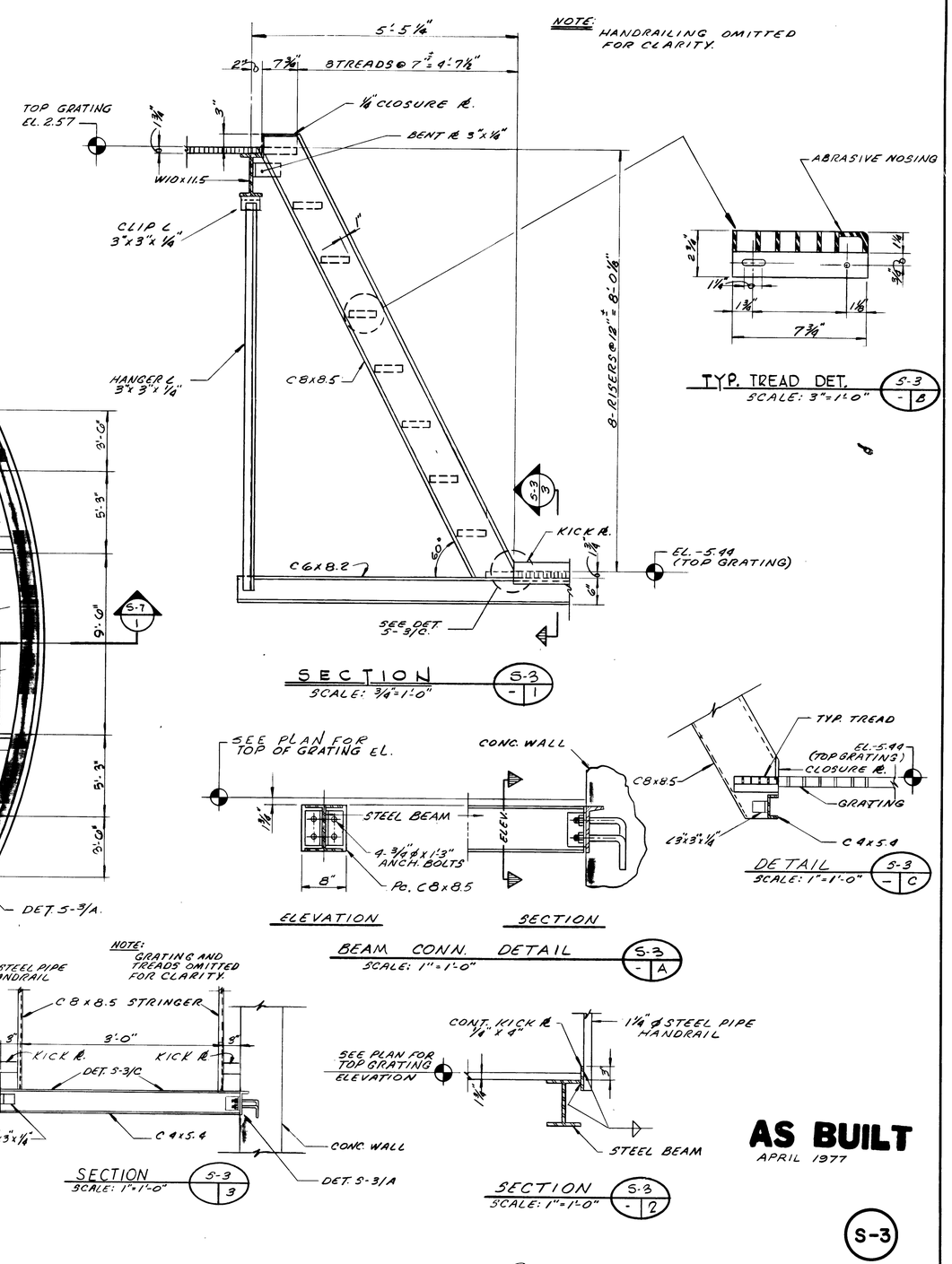
BOTTOM SLAB PLAN AT EL. -17.44

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 22 OF 43

K&E 10-1253 2-72 49357•



FRAMING PLAN AT EL -5.42
SCALE: 1/4" = 1'-0"



AS BUILT
APRIL 1977

S-3

7656

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

SUBMITTED BY: L. Thomas Hubbard
REG. ENGR. FLA. NO. 6634 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: M. Sutterfield
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: J. H. Hyatt
REG. ENGR. FLA. NO. 4220 DATE 3/73
WATER AND SEWER DIVISION
AUTHORIZED BY:
REG. ENGR. FLA. NO. 6547 DATE 3/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

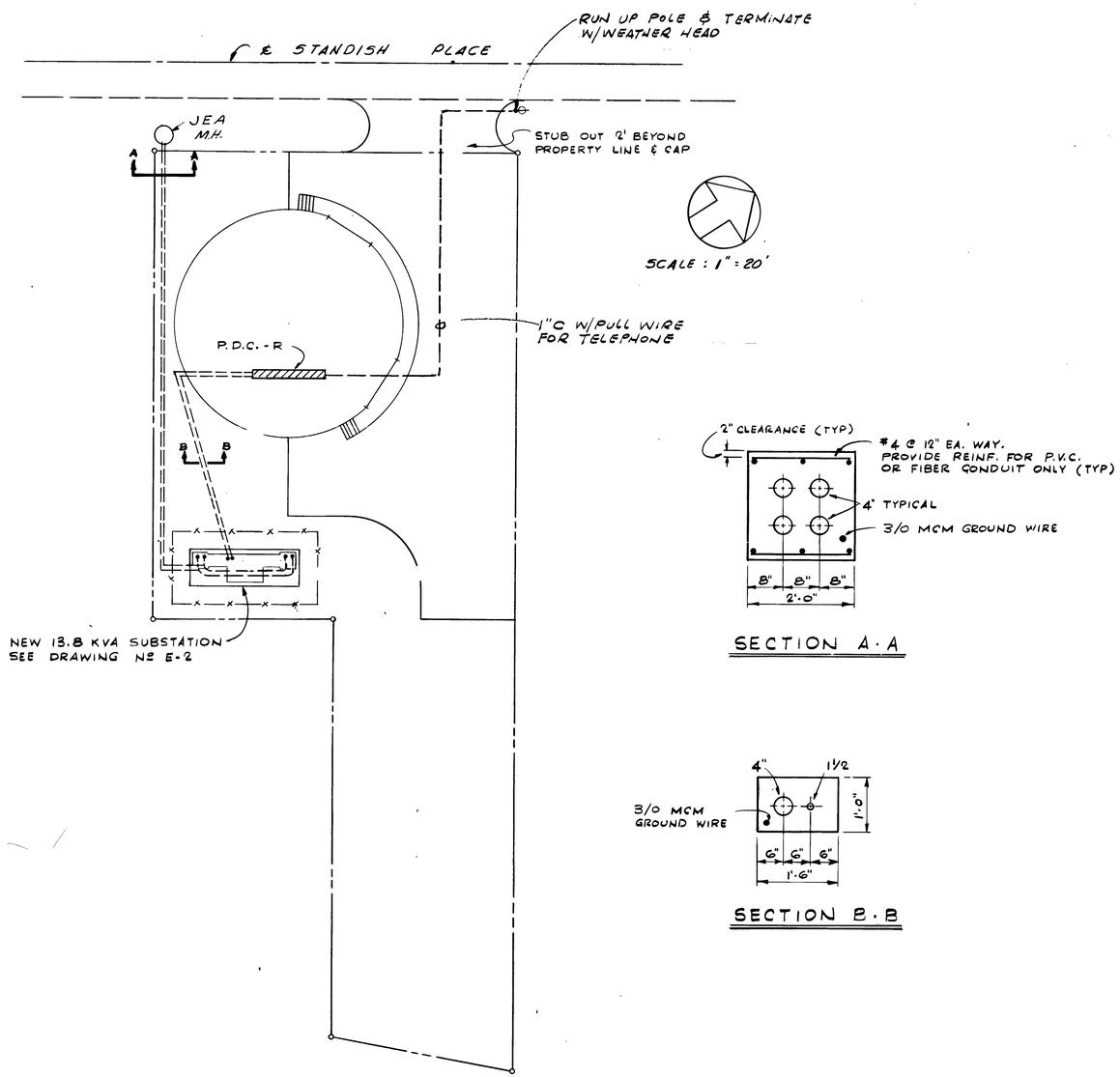
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

DETAILED BY: SEM | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY: LTH | 7207

FRAMING PLAN AT EL. – 2.57

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 23 OF 43

K&E 18-1253 2-72 49357•



PLOT PLAN

RIVERSIDE PUMPING STATION

SECTION A-A

SECTION B-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
PB	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
SV	SOLENOID VALVE
TS	TIME SWITCH
AC	AMPLI SPEED CONTROL UNIT
A	AMMETER
AS	AMMETER SWITCH
F	FREQUENCY METER
FS	FLOAT SWITCH
H	ELAPSED TIME INDICATOR (HOURS OF OPERATION)
HS	HAND SPEAD CONTROL RHEO STAT
S	SPEED INDICATOR
TD	TIME DELAY RELAY ALLEN BRADLEY ADJUSTABLE 0 TO 12 MIN.
VS	VOLTMETER SWITCH
W	INDICATING WATT METER
●R	INDICATES LIGHTS R = RED (STOP) G=GREEN (RUNNING) B = BLUE (AS NOTED) W = WHITE (AS NOTED) A = AMBER (ALARM)
R	INDICATES ASSOCIATED DEVICE REMOTE FROM CONTROL CENTER (USUALLY AT MOTOR)
C	INDICATES ASSOCIATED DEVICE ON INSTRUMENTATION CONTROL PANEL
M	INDICATES ASSOCIATED DEVICE IN MOTOR CONTROL CENTER
P	PRESSURE SWITCH
PBML	SAME AS PBM WITH LOCKING DEVICE
PBL	SAME AS PB WITH LOCKING DEVICE
A	COMMON ALARM IN INSTRUMENTATION CONTROL PANEL (ANNUNCIATOR)
K	KEY INTERLOCK - MECH & ELECTRICALLY
LS	LIMIT SWITCH
100/70	CIRCUIT BREAKER, MOLDED CASE TYPE, THERMAL MAGNETIC TRIP, UPPER NUMERAL INDICATES FRAME SIZE, LOWER INDICATES TRIP SETTING
FVNR SIZE 1	FULL VOLTAGE, NON-REVERSING MAGNETIC MOTOR STARTER. NEMA SIZE INDICATED (PROVIDE STARTERS, C/B, & INDICATOR LIGHTS FOR FUTURE EQUIPMENT)
RVNR SIZE 4	REDUCED VOLTAGE, NON-REVERSING AUTO TRANSFORMER TYPE STARTER NEMA SIZE INDICATED
	POWER TRANSFORMER
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER
10	MOTOR NUMERAL INDICATES HORSEPOWER
⊗	CONDUIT UP AND DOWN
———	CONDUIT RUNS CONCEALED
- - - - -	CONDUIT RUNS EXPOSED
o———	CONDUIT TURNING UP OR TOWARD OBSERVER
●———	CONDUIT TURNING DOWN OR AWAY FROM OBSERVER
A	HOME RUNS TO PANEL. NUMBER OF ARROWS DENOTES NUMBER OF CIRCUITS. ALL LIGHTING CIRCUIT WIRING SHALL BE Nº 12 AWG UNLESS OTHERWISE NOTED.
2½	CEILING MOUNTED INCANDESCENT FIXTURES, TYPE "A" CONNECTED TO CIRCUIT 2 AND SWITCH "d"
	WALL MOUNTED INCANDESCENT FIXTURE
	CEILING MOUNTED FLOURESCENT FIXTURE
8	WALL RECEPTACLE CONNECTED TO CIRCUIT 8, DUPLEX GROUNDING TYPE UNLESS OTHERWISE NOTED
XP	WATERTIGHT EXPLOSION PROOF
	FLOOD LIGHTING FIXTURE
Sa	SINGLE POLE SWITCH, CONTROLS FIXTURES MARKED "a"
Sa W	SINGLE POLE SWITCH, WEATHERPROOF CONTROLS FIXTURES MARKED "a"
Sa X	SINGLE POLE SWITCH, EXPLOSING PROOF CONTROLS FIXTURES MARKED "a"
	PANEL BOARD 277/480 V. 3Ø 4W
	PANEL BOARD 120/280 V 1Ø 3W

ES	EMERGENCY STOP SWITCH
MS	MANUAL MOTOR STARTER
P	WIRING CONCEALED IN SLAB OR BELOW GRADE
	AREA FIXTURES REVERE ISLAND LIGHT
	TELEPHONE OUTLET. PROVIDE 1" EMPTY CONDUIT FROM EA. OUTLET
	SPECIAL PURPOSE OUTLET
P	PRIMARY CABLE AND CONDUIT
	MOTOR DRIVEN HORN
	STREET LIGHT, WESTINGHOUSE "OV -25" WITH BUILT IN FUSED BALLAST 480 VOLT-400 WATT H33-1GL-CIE MERCURY LAMP ALL WIRING AS INDICATED SHEET E-1
P60	P60 INDICATES CONDUIT NUMBER - SEE CONDUIT & CABLE SCHEDULES
T	TELEPHONE CONDUIT
V	VOLTMETER
T	THERMOSTAT
VSC	VARIABLE SPEED CONTROLS
CV	CONE OR BALL CHECK VALVE
R	RELAY

AS BUILT
APRIL 1977

E-1

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

SUBMITTED BY: Bill E. Broughton — REG. ENGR. FLA. NO. 4921 — DATE 10/72 — FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: H. Sverdrup — REG. ENGR. FLA. NO. 9663 — DATE 2/73 — SVERDRUP & PARCEL AND ASSOCIATES, Inc.

APPROVED BY: [illegible] — REG. ENGR. FLA. NO. [illegible] — DATE 2-7-73 — WATER AND SEWER DIVISION
AUTHORIZED BY: [illegible] — REG. ENGR. FLA. NO. 6860 — DATE 2/73 — OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

7657

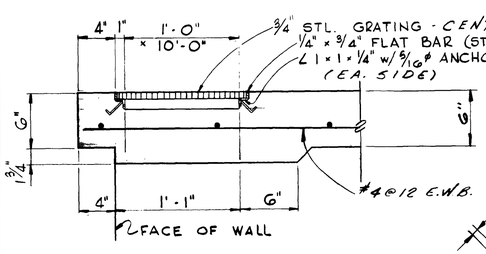
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. — GENERAL CONSULTANT

DETAILED BY: FEW — SCALE AS SHOWN — DATE AUGUST, 72
CHECKED BY: AC — 7207

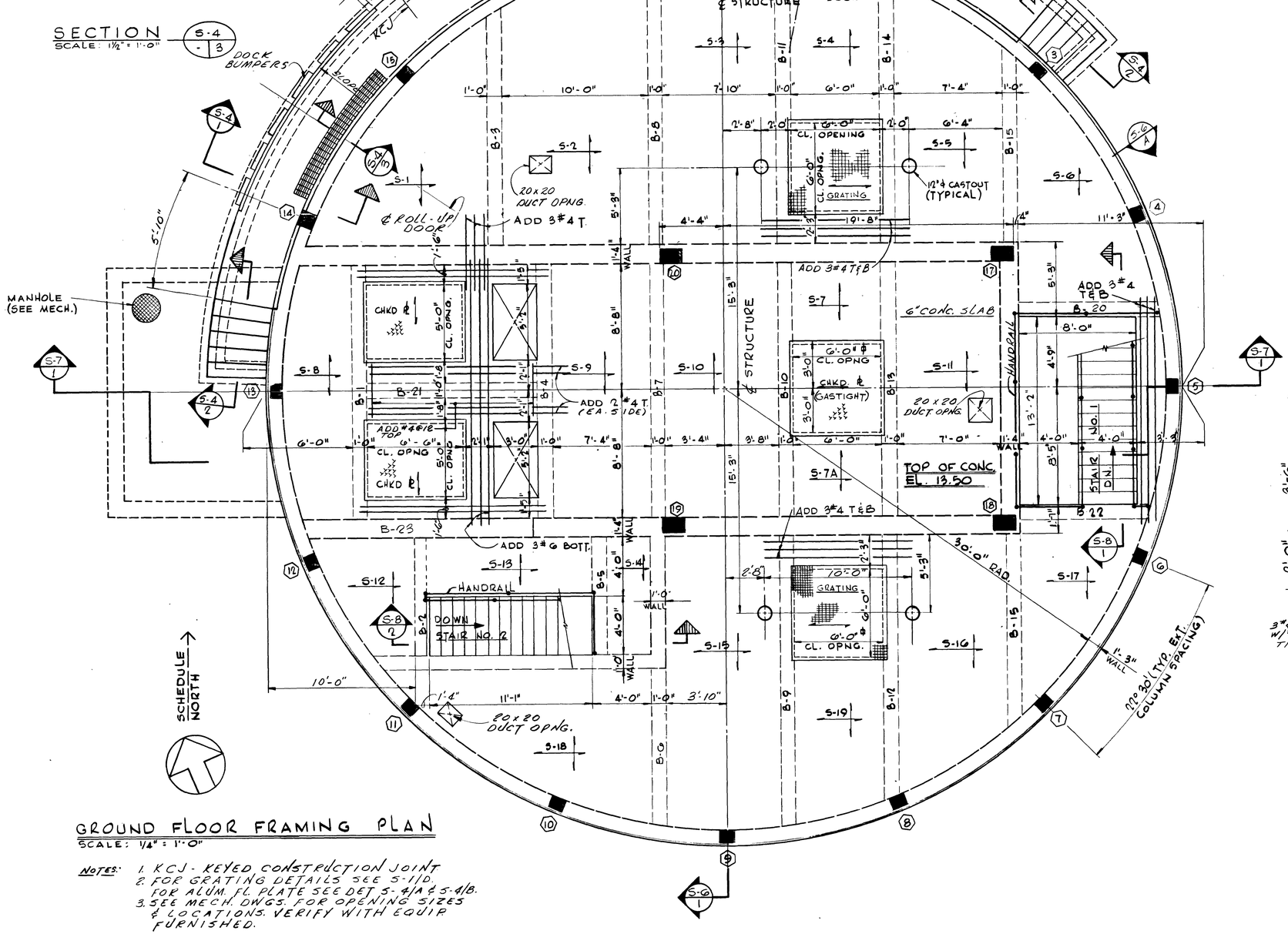
SITE PLAN AND LEGEND

CONTR. NO. JS-24 — PROJ. NO. 011-5 — SHEET NO. 34 OF 43

K&E 10-1253 2-72 49357-

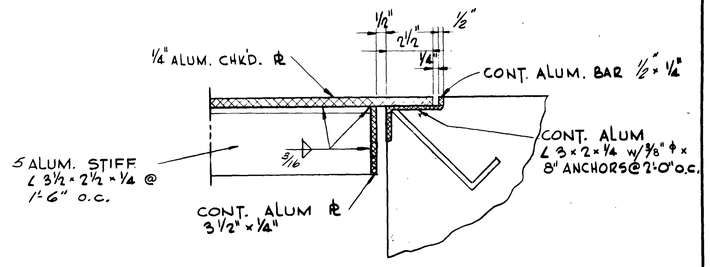


SECTION
SCALE: 1½" = 1'-0"
S-4 / 3

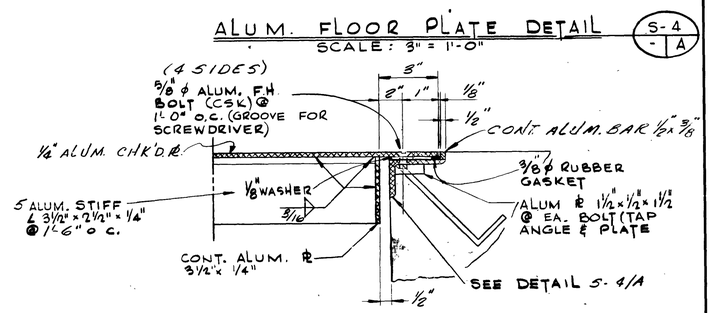


GROUND FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"

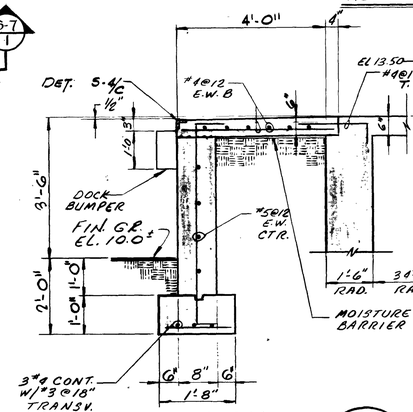
NOTES:
1. KCJ - KEYED CONSTRUCTION JOINT
2. FOR GRATING DETAILS SEE S-1/D. FOR ALUM. FL. PLATE SEE DET S-4/A & S-4/B.
3. SEE MECH. DWGS. FOR OPENING SIZES & LOCATIONS. VERIFY WITH EQUIP FURNISHED.



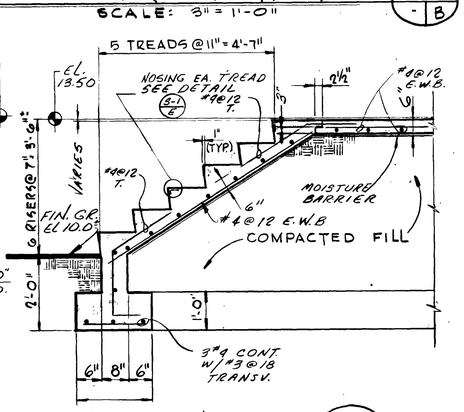
ALUM. FLOOR PLATE DETAIL
SCALE: 3" = 1'-0"
S-4 / A



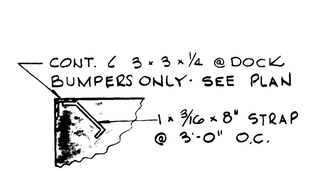
ALUM. FLOOR PLATE (GAS-TIGHT) DETAIL
SCALE: 3" = 1'-0"
S-4 / B



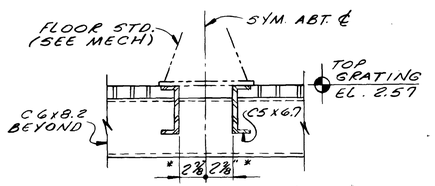
SECTION
SCALE: 1/2" = 1'-0"
S-4 / 1



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



DETAIL
NO SCALE
S-4 / C



* VERIFY WITH EQUIP. PURCHASED.

DETAIL
SCALE: 1½" = 1'-0"
S-4 / D

AS BUILT
APRIL 1977

S-4

7658

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

SUBMITTED BY: L. Thomas Hubbard
REG. ENGR. FLA. NO. 6634 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: M. Lunsford
REG. ENGR. FLA. NO. 4663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: H. Hall
REG. ENGR. FLA. NO. 4270 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: Vaughan
REG. ENGR. FLA. NO. 6847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

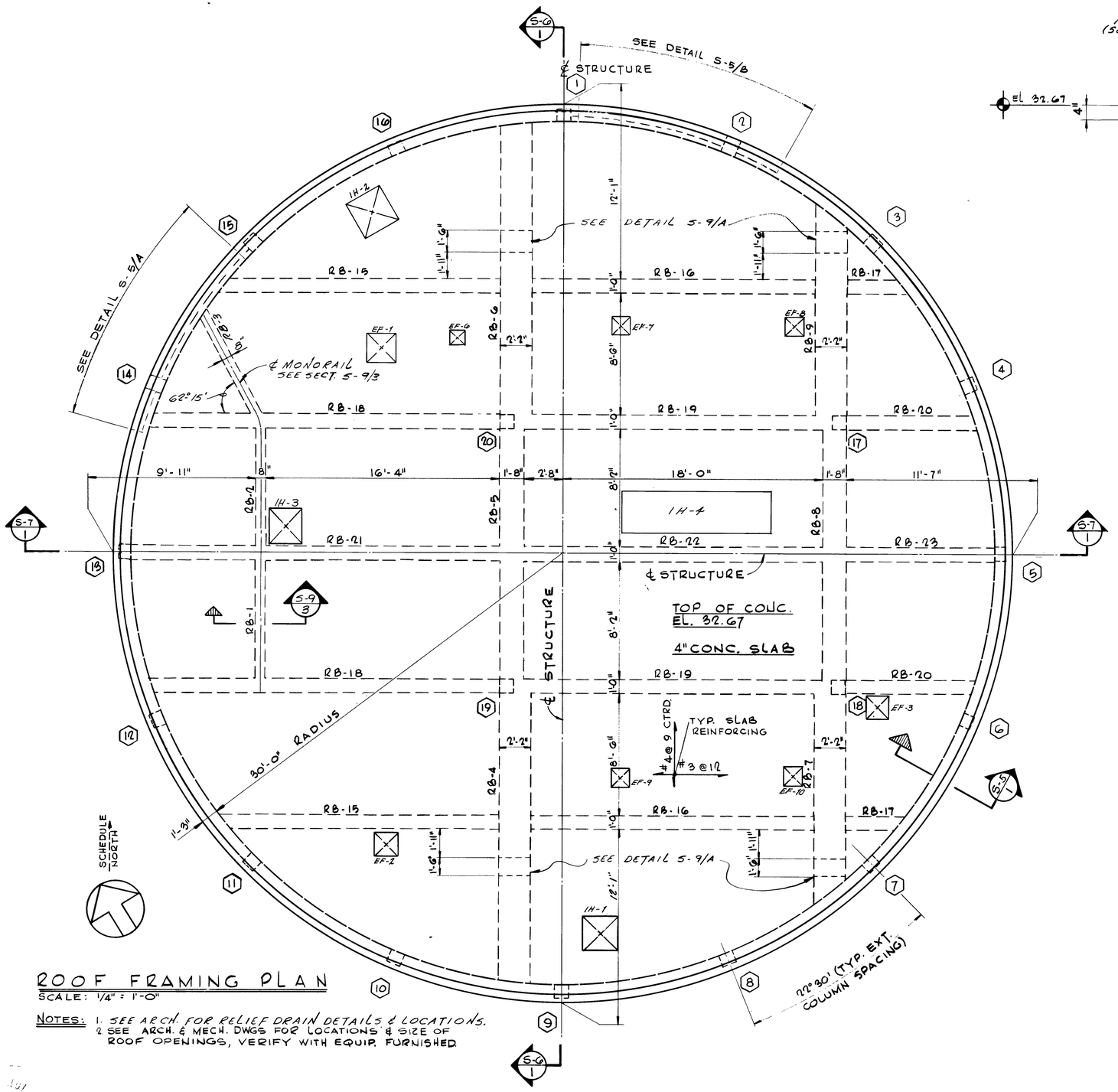
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

DETAILED BY: CD | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY: LTH | 7207

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 24 OF 43

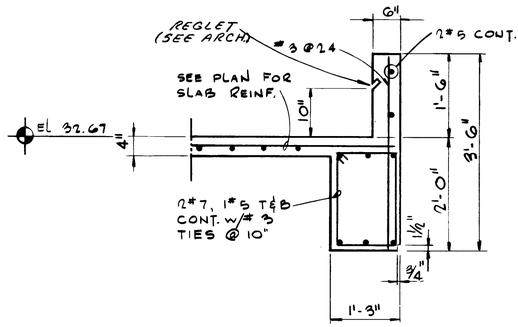
GROUND FLOOR FRAMING PLAN



ROOF FRAMING PLAN

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

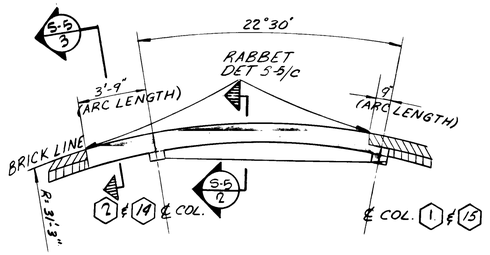
NOTES:
1. SEE ARCH. FOR RELIEF DRAIN DETAILS & LOCATIONS.
2. SEE ARCH. & MECH. DWGS FOR LOCATIONS & SIZE OF ROOF OPENINGS, VERIFY WITH EQUIP. FURNISHED



SECTION

SC. 3/4" = 1'-0"

S-5 / 1



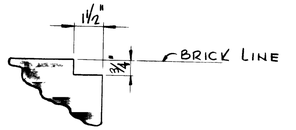
PLAN DETAIL

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

S-5 / A S-5 / B

NOTE:

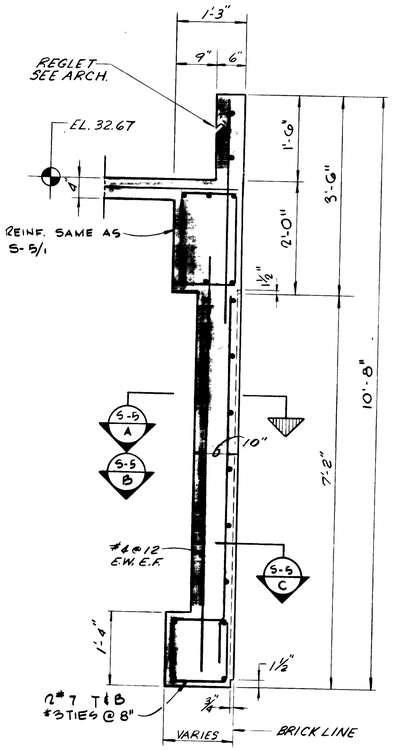
DETAIL S-5/A DRAWN
DETAIL S-5/B OPPOSITE HAND



TYP. REVEAL DETAIL

SCALE: 3" = 1'-0"

S-5 / C



TYPICAL SECTION ABOVE DOOR OPENING

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

S-5 / 2

SECTION

SC. 3/4" 1'-0"

S-5 / 3

AS BUILT
APRIL 1977

S-5

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

SUBMITTED BY: L. Thomas Hubbard
REG. ENGR. FLA. NO. 6634 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: M. Lutz Ladd
REG. ENGR. FLA. NO. 9662 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: L. H. Hyatt 2-27-73
REG. ENGR. FLA. NO. DATE
WATER AND SEWER DIVISION
AUTHORIZED BY: Stanley
REG. ENGR. FLA. NO. 6847 DATE 2/23
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

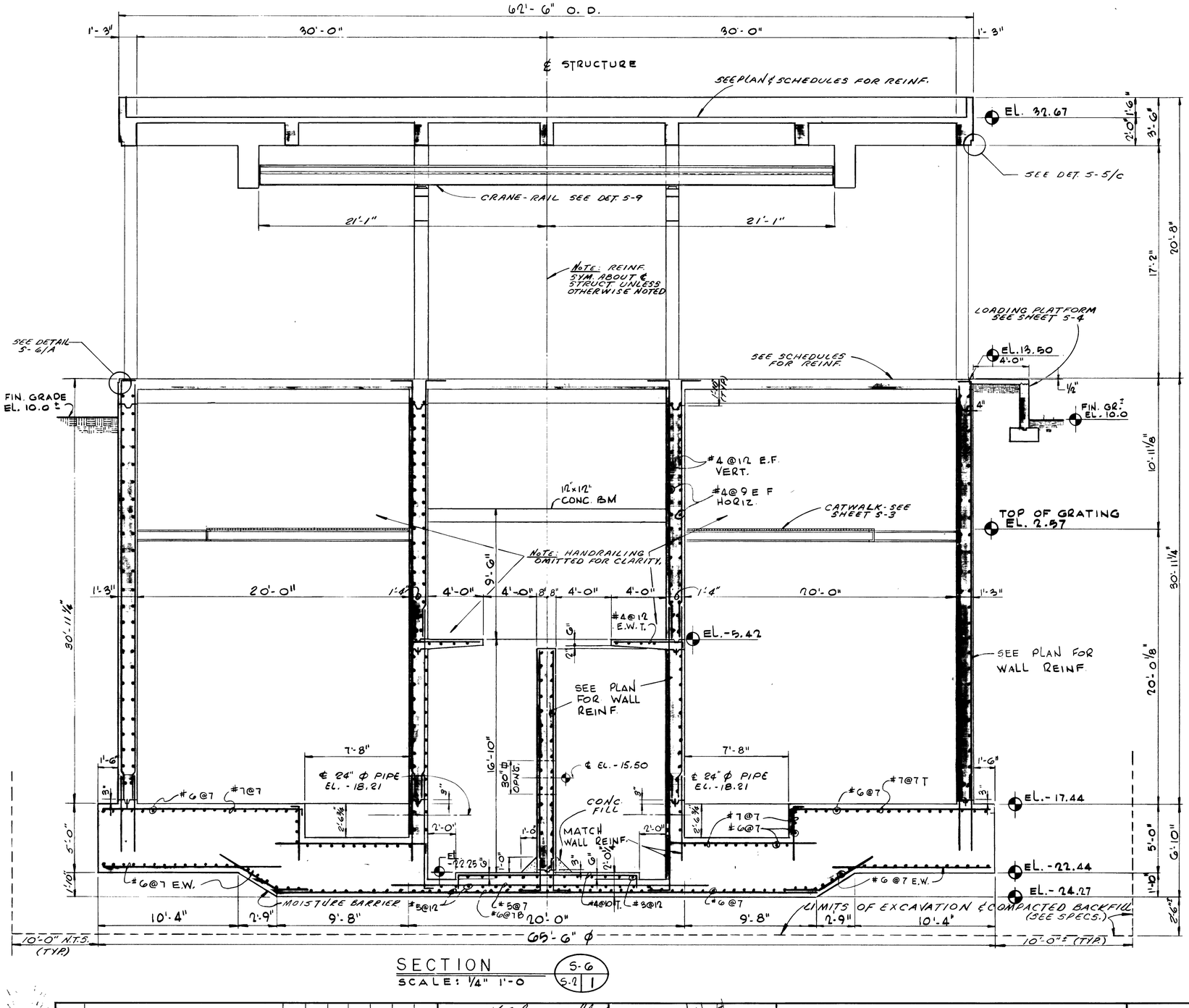
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CHECKED BY: LTH | 7207

7659 S

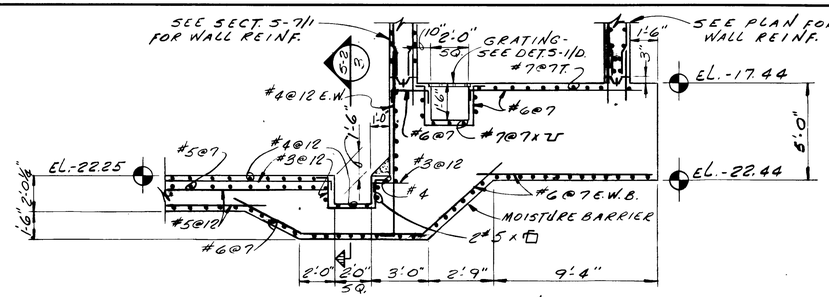
ROOF FRAMING PLAN

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 25 OF 43

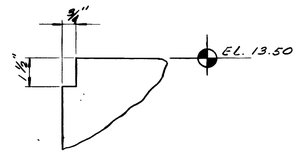
K&E 19-1253 2-72 49357•



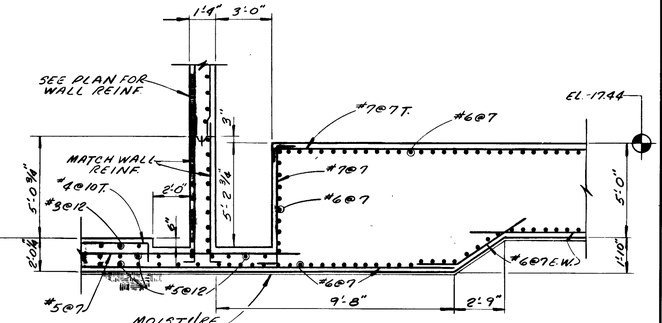
SECTION — SCALE: 1/4" 1'-0" — (S-6 / S-2 | 1)



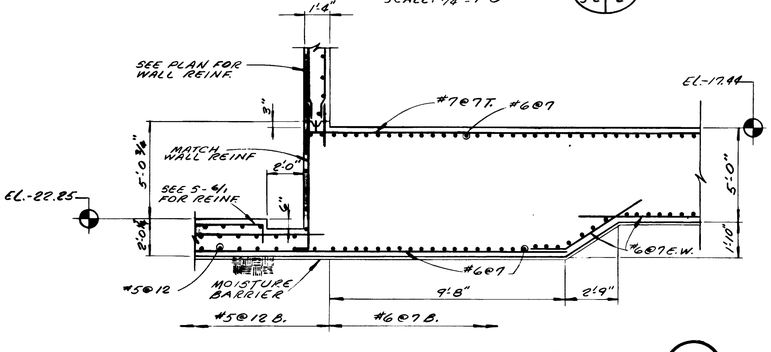
SECTION — SCALE: 1/4"=1'-0" — (S-6 / S-2 | 4)



REVEAL DETAIL — SCALE: 3" = 1'-0" — (S-6 / — | A)



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



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

S-6

AS BUILT

APRIL 1977

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

SUBMITTED BY: L. Thomas Hollister
REG. ENGR. FLA. NO. 6638 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: H. Sutherland
REG. ENGR. FLA. NO. 9063 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: [illegible]
REG. ENGR. FLA. NO. 4270 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: [illegible]
REG. ENGR. FLA. NO. 8777 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM

PHASE 2

RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT

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

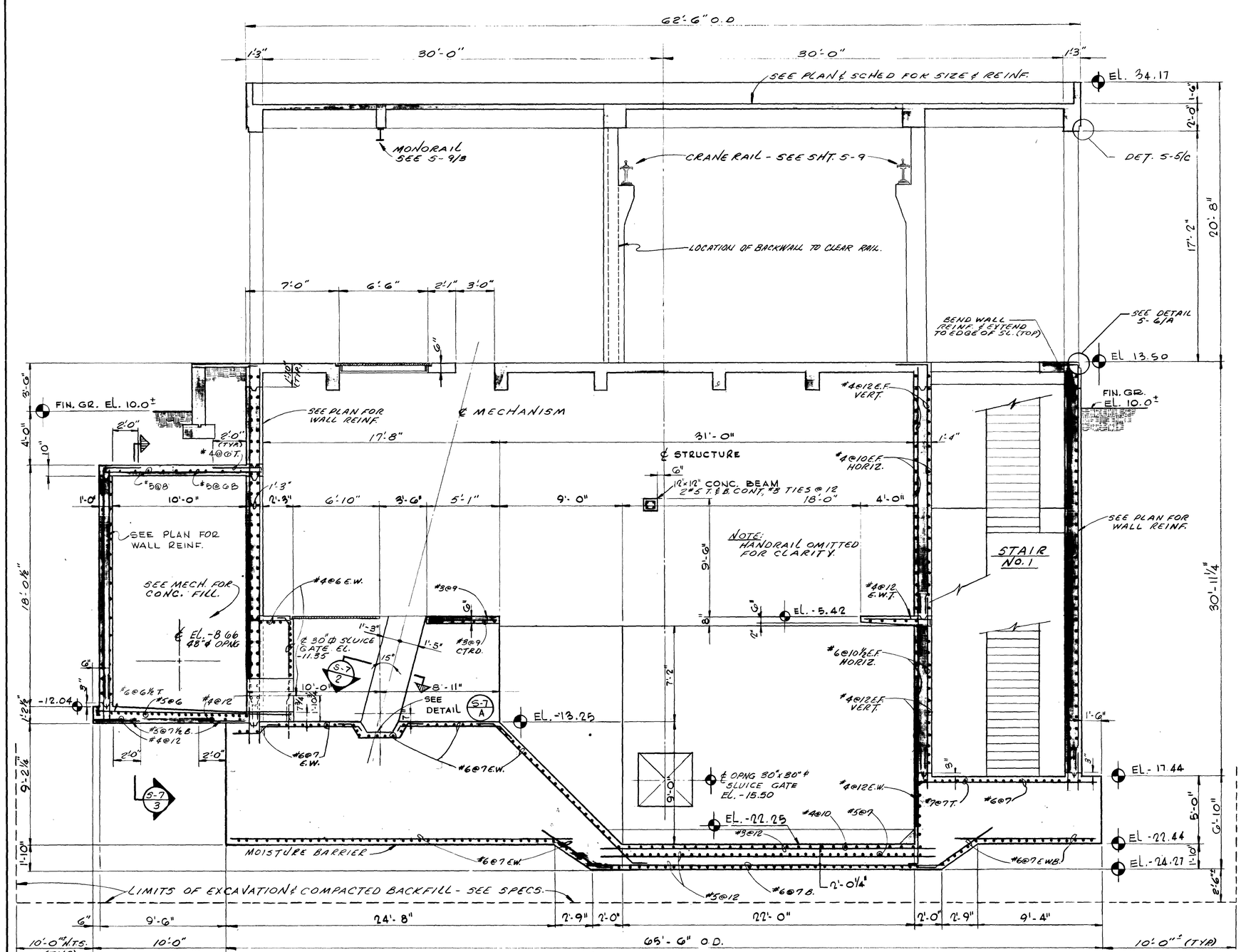
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CHECKED BY: LTH | 7207

7660 S

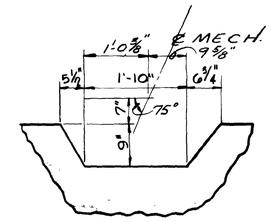
CROSS SECTION

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 26 OF 43

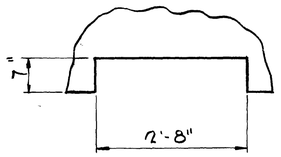
K&E 19-1253 2-72 49357•



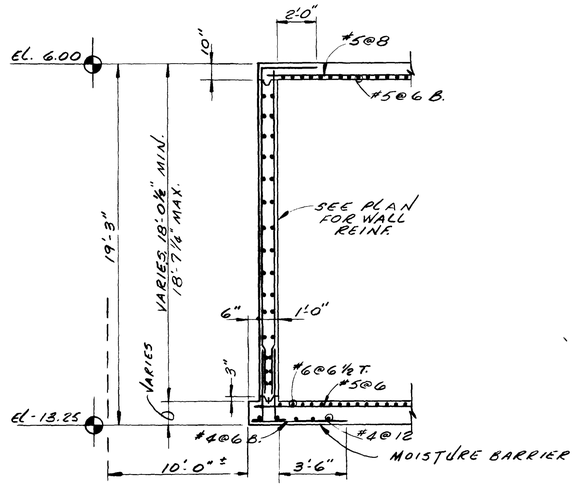
SECTION
SCALE: 1/4" = 1'-0"
S-7 / S-2 | 1



DETAIL S-7 / -A



SECTION S-7 / -2 SCREEN RECESS



LIMITS OF EXC. & COMP. BACKFILL (SEE SPECS.

SECTION
SCALE: 1/4" = 1'-0"
S-7 / S-2 | 3

AS BUILT
APRIL 1977

S-7

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

SUBMITTED BY: L. Thomas Hilliard
REG. ENGR. FLA. NO. 6634 DATE 10/72
FLOOD & ASSOCIATES, INC.

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

APPROVED BY: O. L. Hay
REG. ENGR. FLA. NO. 4270 DATE 2/73
WATER AND SEWER DIVISION

AUTHORIZED BY: [signature]
REG. ENGR. FLA. NO. 6847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM

PHASE 2

RIVERSIDE PUMPING STATION

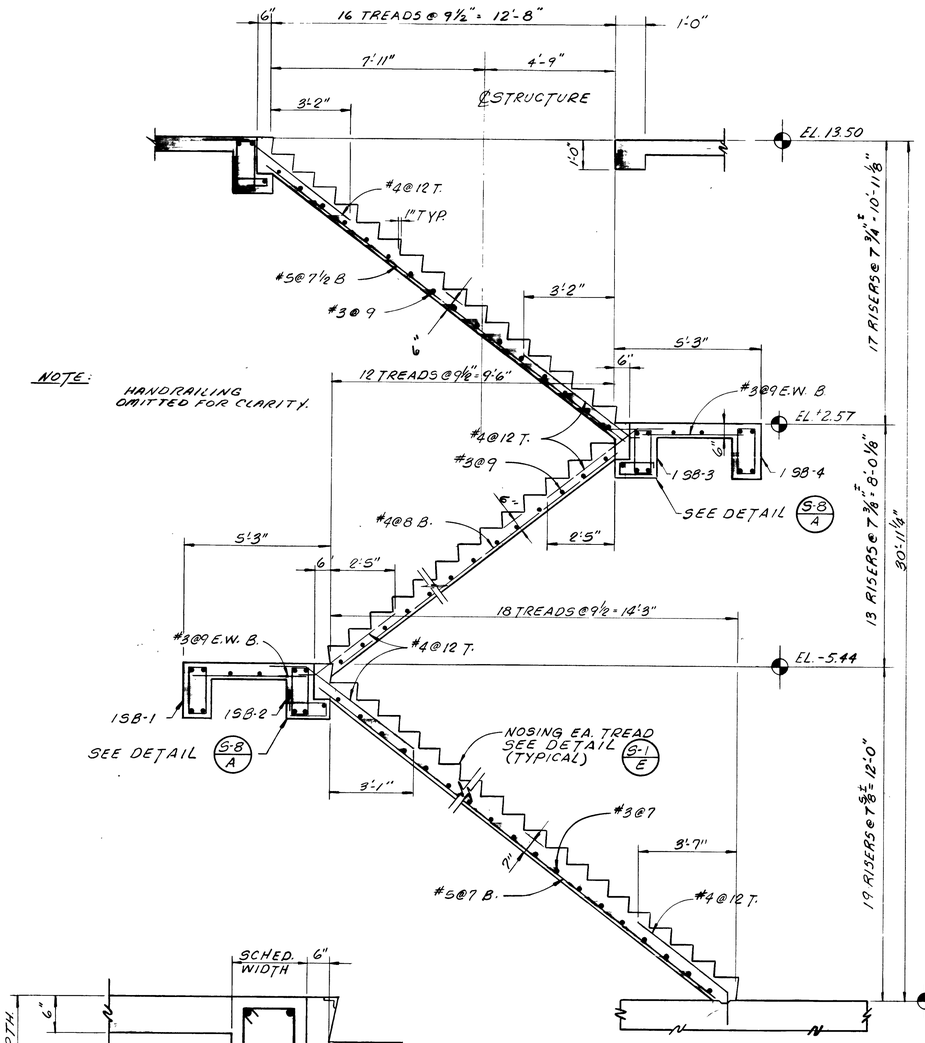
7661

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

DETAILED BY: CD | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY: LTH | 7207

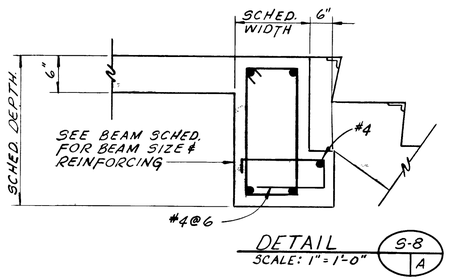
CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 27 OF 43

CROSS SECTION

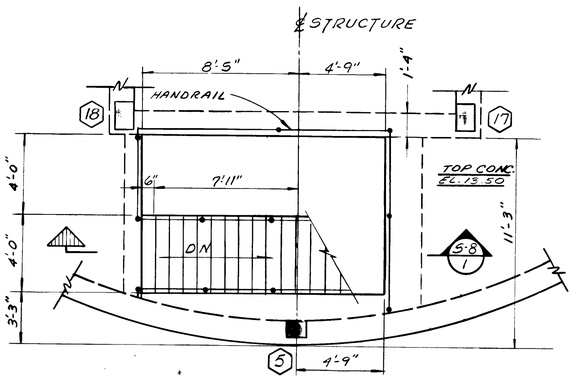


NOTE: HANDRAILING OMITTED FOR CLARITY.

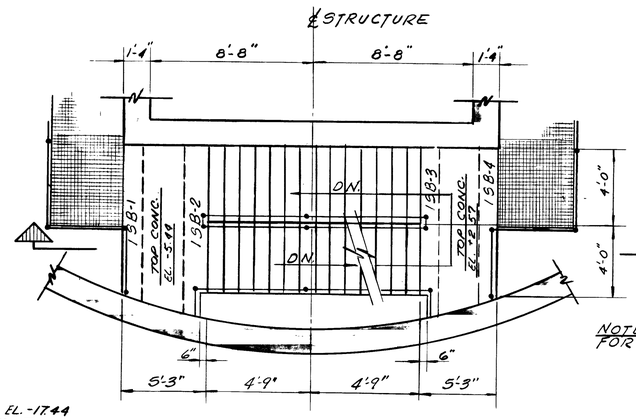
SECTION — STAIR NO. 1
SCALE: 3/8" = 1'-0" (5-8 / 5-8 | 1)



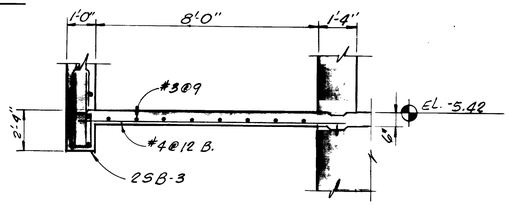
DETAIL — SCALE: 1" = 1'-0" (5-8 / A)



STAIR NO. 1
PLAN AT EL. +13.50
SCALE: 1/4" = 1'-0"

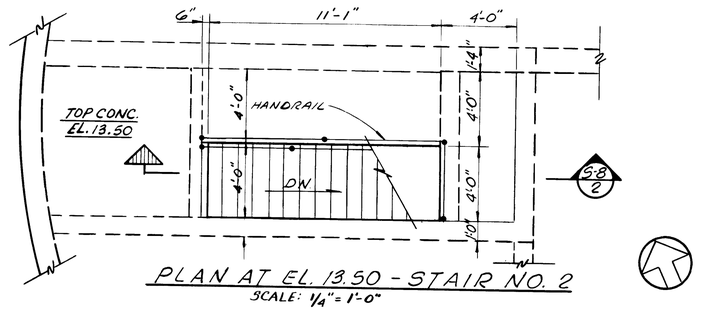


PLAN AT EL. +2.57 - STAIR NO. 1
SCALE: 1/4" = 1'-0"

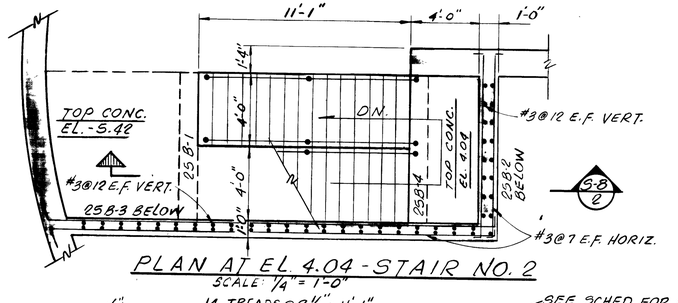


SECTION (5-8 / 5-8 | 3)
SCALE: 3/8" = 1'-0"

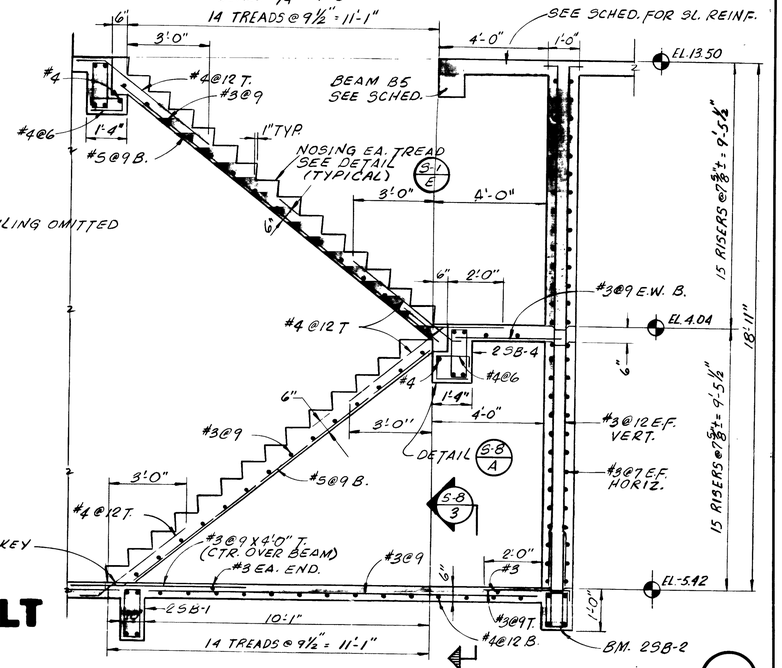
NOTE: HANDRAILING OMITTED FOR CLARITY.



PLAN AT EL. 13.50 - STAIR NO. 2
SCALE: 1/4" = 1'-0"



PLAN AT EL 4.04 - STAIR NO. 2
SCALE: 1/4" = 1'-0"



SECTION — STAIR NO. 2
SCALE: 3/8" = 1'-0" (5-8 / 5-8 | 2)

AS BUILT
APRIL 1977

S-8

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

SUBMITTED BY: L. Thomas Hollon — REG. ENGR. FLA. NO. 6634 DATE 10/72 — FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: W. Quitfield — REG. ENGR. FLA. NO. 9663 DATE 2/73 — SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: W. Hyatt — REG. ENGR. FLA. NO. 4770 DATE 2/73 — WATER AND SEWER DIVISION
AUTHORIZED BY: — REG. ENGR. FLA. NO. 6847 DATE 2/73 — OFFICE OF DIRECTOR OF PUBLIC WORKS — CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

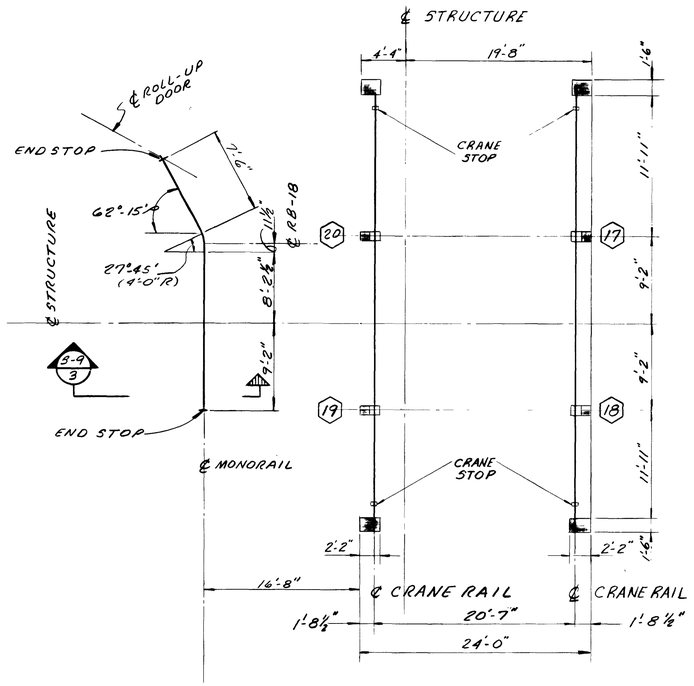
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

DETAILED BY: SEM — SCALE AS SHOWN — DATE AS SHOWN
CHECKED BY: LTH — 7207

STAIR DETAILS 7662

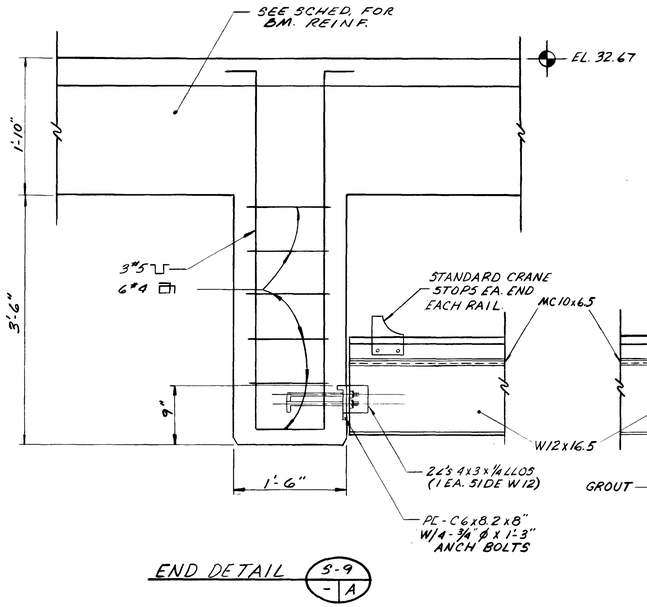
CONTR. NO. JS-24 — PROJ. NO. 011-5 — SHEET NO. 28 OF 43

K&E 19-1253 2-72 49357-

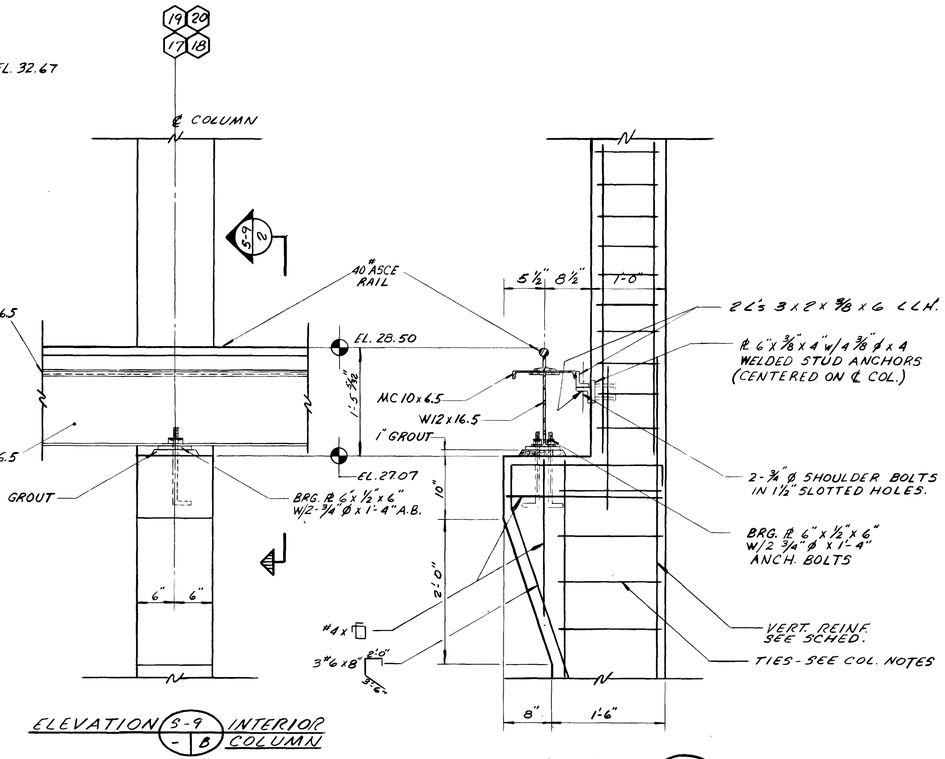


PLAN S-9 / - / 1 — CRANE RAIL & MONORAIL SYSTEM
(TOP CRANE RAIL EL. 28.50)
SCALE: 1/8" = 1'-0"

NOTE: MONORAIL IS DESIGNED FOR 1-2 TON MANUAL HOIST. CRANE RAIL SYSTEM IS DESIGNED FOR 1-5 TON MANUAL BRIDGE CRANE.



END DETAIL S-9 / - / A

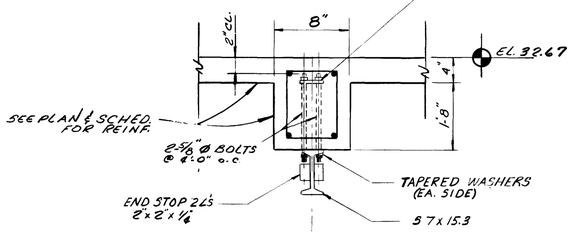


ELEVATION S-9 / - / B — INTERIOR COLUMN

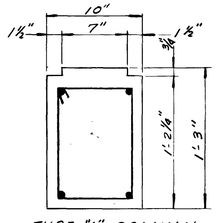
SECTION S-9 / - / 2

DETAIL S-9 / - / C — CRANE RAIL & SUPPORTS
SCALE: 1" = 1'-0"

NOTES:
1. FABRICATE CRANE BEAMS SO THAT MC 10 x 6.5 & W12 x 16.5 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" & MFRS. RECOMMENDATIONS. SPLICES SHALL BE BOLTED WITH TIGHT JOINT FASTENINGS SHALL BE BY "FIXED" TYPE RAIL CLAMPS, PAIRED, PER MFR'S RECCOMMENDATIONS, 24" O.C. MAX.



SECTION S-9 / - / 3
SCALE: 1" = 1'-0"



TYPE "A" COLUMN
SCALE: 1½" = 1'-0"

COLUMN NOTES
1. SEE PLAN FOR ORIENTATION.
2. ALL COLUMN TIES TO BE IN ACCORDANCE WITH AC.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 COLUMNS 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.

AS BUILT
APRIL 1977

COLUMN SCHEDULE

COLUMN NUMBERS	1, 3 THRU 13, 15, 16	2, 14	17, 18, 19, 20	21
EL. TOP OF ROOF BEAM	32.67	32.67	32.67	
SIZE OR TYPE	10 x 10	TYPE "A"	12 x 12	
VERTICAL REINFORCING	4 #6	4 #7	4 #6	
EL. TOP OF HAUNCH			27.07	
SIZE OR TYPE			12 x 18	
VERTICAL REINFORCING			4 #7	
EL. TOP OF GROUND FL. SLAB	13.50	13.50	13.50	
REMARKS			SEE DET. 3-9½	SEE PLAN SHT. S-2

7663 S

S-9

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

SUBMITTED BY: L. Thomas Sullivan
REG. ENGR. FLA. NO. 6634 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: M. Lytle, Jr.
REG. ENGR. FLA. NO. 9662 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, Inc.

APPROVED BY: R. H. Hyatt
REG. ENGR. FLA. NO. 4270 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: Raymond
REG. ENGR. FLA. NO. 12842 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

DETAILED BY: SEM | SCALE: AS SHOWN | DATE: AUGUST 1972
CHECKED BY: LTH | 7207

CRANE RAIL & MONORAIL SYSTEM COLUMN SCHEDULE

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 29 OF 43

K&E 19-1253 2-72 49357•

BEAM SCHEDULE

MARK	SIZE W	SIZE D	REINFORCING A	B	C	D	E	F	TIES SIZE	TIES SPACING EACH END	REMARKS
			GROUND FLOOR BEAMS								
B-1	12	20	2#9,1#8	2#7	2#7				#3	2@8, +1	SEE DET. S-9/A
B-2	10	22	2#6			2#6			#3	CONT. @ 12	SEE DET. S-8/A
B-3	12	22	3#7	2#7	2#7				#3	2@9, 2@12, +1	
B-4	12	20	2#9,1#8	2#7	2#7				#3	2@8, +1	
B-5	10	12	2#5			2#5			#3	CONT. @ 12	
B-6	12	22	3#6	2#7	2#7				#3	3@9, +1	
B-7	12	22	3#7	2#7	2#7				#3	2@9, 2@12, +1	
B-8	12	22	2#9,1#8	2#7	2#7				#3	2@9, 2@12, +1	
B-9	12	22	2#11,1#10	2#7			3#11		#3	2@6, 7@9	SEE DET. S-11/D.
B-10	12	22	3#7				3#11	2#7	#3	CONT. @ 12	SEE DET. S-9/B.
B-11	12	22	2#11,1#10		2#7				#3	2@6, 7@9	SEE DET. S-11/D.
B-12	12	22	2#11,1#10	2#7			3#11		#3	2@6, 7@9	SEE DET. S-11/D.
B-13	12	22	3#7				3#11	2#7	#3	CONT. @ 12	SEE DET. S-9/B.
B-14	12	22	2#11,1#10		2#7				#3	2@6, 7@9	SEE DET. S-11/D.
B-15	12	22	2#8	2#7	2#7				#3	3@9, +1	
B-20	8	12	2#6			2#4			#3	CONT. @ 12	
B-21	12	16	2#7			2#6			#3	CONT. @ 24	
B-22	10	22	1#7,1#6			1#7,1#6			#3	CONT. @ 12	SEE DET. S-8/A
B-23	16	22	3#11	2#8	3#9				#3	B@6, 2@12	
					ROOF BEAMS						
RB-1	8	22	2#6	2#6			2#6		#3	2@9, +1	
RB-2	8	22	2#6				2#6		#3	2@9, +1	
RB-3	8	22	2#6		2#6				#3	2@9, +1	
RB-4	26	22	2#11,1#10	3#8			2#11,1#10		#3	3@9, +1	
RB-5	20	22	2#7,1#8				2#11,1#10	3#7	#3	3@9 CONT. @24	
RB-6	26	22	2#11,1#10		3#8				#3	3@9, +1	
RB-7	26	22	3#8	3#8			3#8	3#7	#3	CONT @ 24	
RB-8	20	22	2#8,1#7				3#8		#3	3@9, +1	
RB-9	26	22	3#8		3#8			3#7	#3	CONT. @ 24	
RB-15	12	18	2#7	2#7			2#9		#3	2@12, +1	
RB-16	12	18	2#7				1#7		#3	2@12+1	
RB-17	12	18	2#7			2#7			#3	CONT. @ 18	
RB-18	12	22	3#8	2#7			2#9,1#8		#3	3@9, +1	
RB-19	12	22	2#7					2#7	#3	3@9, CONT. @ 24	
RB-20	12	22	2#7			2#7			#3	CONT @ 24	
RB-21	12	22	2#9,1#8	2#7			3#9		#3	3@9 +1	
RB-22	12	22	2#7					2#7	#3	3@9, CONT. @ 24	
RB-23	12	22	2#7			2#7			#3	CONT. @ 24	
					STAIR BEAMS						
1SB-1	8	12	2#6			2#4			#3	CONT. @ 12	
1SB-2	10	22	2#6			2#6			#3	CONT. @ 12	SEE DET. S-8/A
1SB-3	10	22	2#6			2#6			#3	CONT. @ 12	SEE DET S-8/A
1SB-4	8	12	2#6			2#4			#3	CONT. @ 12	
2SB-1	10	12	2#6			2#5			#3	CONT. @ 12	
2SB-2	12	12	2#7			2#5			#3	CONT. @ 12	
2SB-3	12	26	3#11	2#8	2#8				#3	11@9, 1@11, +1	
2SB-4	10	22	2#6			2#6			#3	CONT. @ 12	SEE DET S-8/A

SLAB & BEAM NOTES

1. SEE SHEET S-1 FOR ADDITIONAL NOTES AND BENDING DIAGRAM.
2. IN DIAGRAM READING FROM SOUTH TO NORTH & 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.

SLAB SCHEDULE

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

AS BUILT
APRIL 1977

7664 S

S-10

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

SUBMITTED BY: L. Thomas Hibbard
REG. ENGR. FLA. NO. 6634 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY:
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY:
REG. ENGR. FLA. NO. 4270 DATE 2/23
WATER AND SEWER DIVISION
AUTHORIZED BY:
REG. ENGR. FLA. NO. 6647 DATE 2/23
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

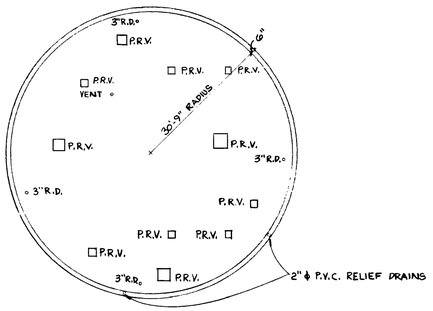
CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT
DETAILED BY: SEM SCALE AS SHOWN DATE AUGUST 1972
CHECKED BY: LTH 7207

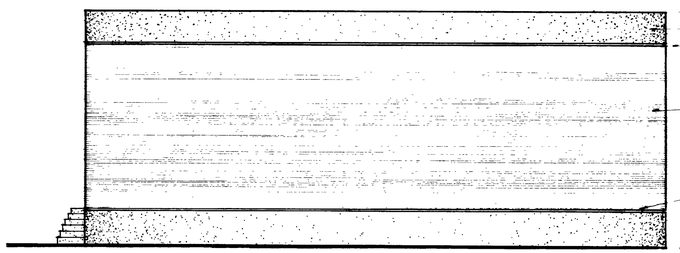
BEAM & SLAB SCHEDULES

CONTR. NO. JS-24 PROJ. NO. 011-5 SHEET NO. 30 OF 43

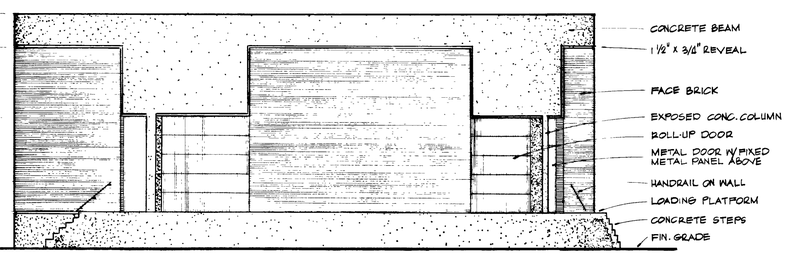
K&E 10-1253 2-72 49357-



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



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



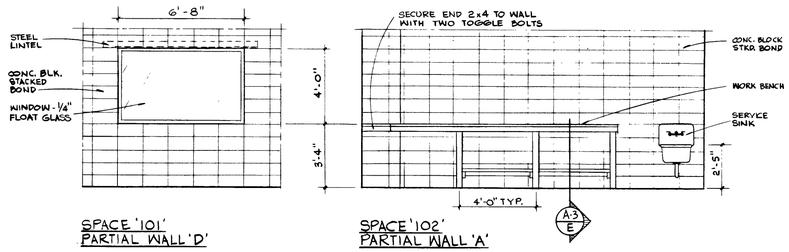
ELEVATION "A"
SCALE: 1/8" = 1'-0"

DOOR SCHEDULE

NO.	OPNG. SIZE	TYPE	MAT'L.	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	LOUVER SIZE	HDWE. GROUP	REMARKS
101	3'-0" x 9'-10"	A	ALUM.	A-2/5 ✱	A-2/3	A-2/8		1	✱2'-10" FIXED PANEL (A-2/6)
102	10'-4" x 10'-0"	B	ALUM.	A-2/1	A-2/2&3	A-2/4			CHAIN OPERATED ROLL-UP VERIFY WIDTH
103	10'-4" x 10'-0"	B	ALUM.	A-2/1	A-2/2&3	A-2/4			CHAIN OPERATED ROLL-UP VERIFY WIDTH
104	3'-0" x 7'-0"	C	ALUM.	A-2/12	A-2/13	A-2/14	24 x 12	3	
105	3'-0" x 9'-10"	A	ALUM.	A-2/5 ✱	A-2/3	A-2/8		1	✱2'-10" FIXED PANEL (A-2/6)
106	2'-4" x 7'-0"	C	ALUM.	A-2/12	A-2/13	A-2/14		2	

FINISH SCHEDULE

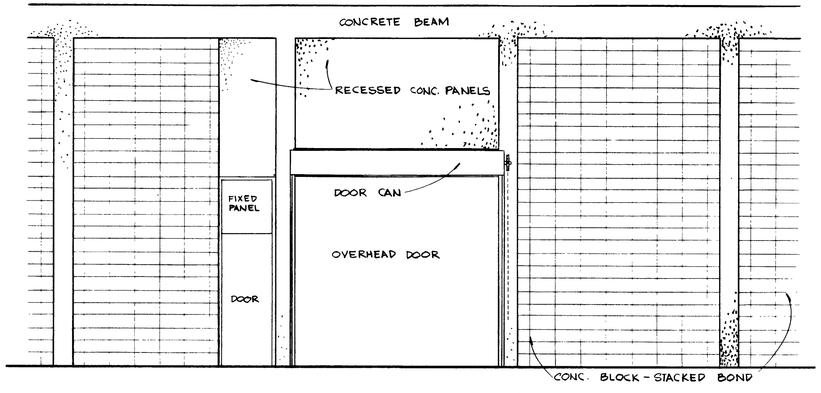
NO.	SPACE DESCRIPTION	FLOOR	BASE	WALLS A	WALLS B	WALLS C	WALLS D	CEIL.	CEIL. HEIGHT	REMARKS
101	MOTOR ROOM	CONC.		CONC. BLK.	CONC. BLK.	CONC. BLK.	CONC. BLK.	CONC.	19'-0"	CONC. ABOVE DOOR
102	STORAGE ROOM	CONC.		CONC. BLK.	CONC. BLK.	CONC. BLK.	CONC. BLK.	CONC.	19'-0"	
103	TOILET	C. TILE	C. TILE	C. TILE	C. TILE	C. TILE	C. TILE	PLASTER	8'-0"	C. TILE TO 6'-0"
104	SCREEN ROOM	CONC.		CONC. BLK.	CONC. BLK.	CONC. BLK.	CONC. BLK.	CONC.	19'-0"	



SPACE '101'
PARTIAL WALL 'D'

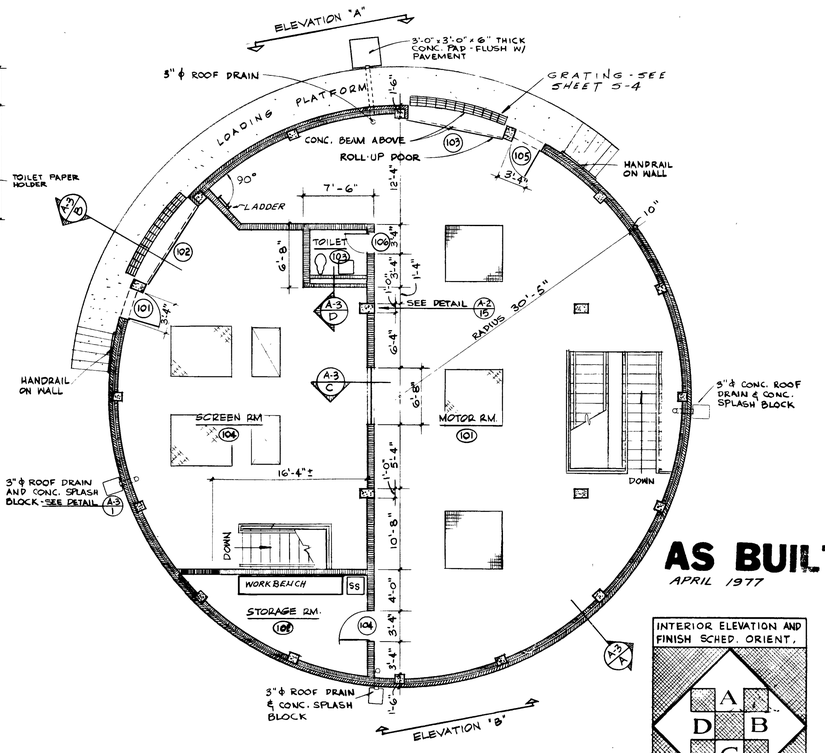
SPACE '102'
PARTIAL WALL 'A'

SPACE '103'
WALL 'B'



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

INTERIOR ELEVATIONS
SCALE: ¼" = 1'-0"



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

AS BUILT
APRIL 1977

INTERIOR ELEVATION AND FINISH SCHED. ORIENT.

7665

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

SUBMITTED BY: J. Don Alford
REG. ENGR. FLA. NO. 2960 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: W. Sutherland
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, Inc.

APPROVED BY: [illegible]
REG. ENGR. FLA. NO. 4270 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: [illegible]
REG. ENGR. FLA. NO. 6847 DATE 3/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

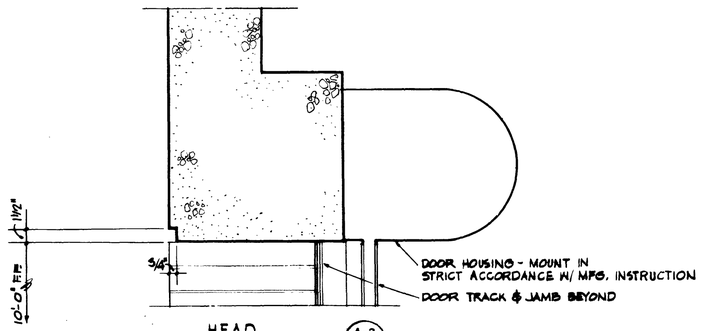
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

DETAILED BY: SBD
CHECKED BY: DA
SCALE: AS SHOWN
DATE: AUGUST, 1972
7207

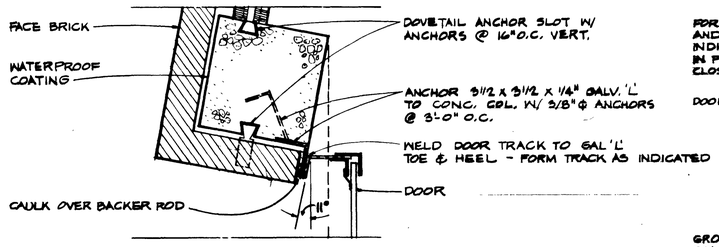
PLAN, ELEVATION & SCHEDULES (A-1)

CONTR. NO. JS-24
PROJ. NO. 011-5
SHEET NO. 31 OF 43

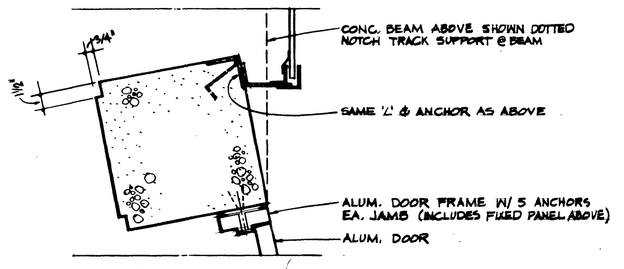
K&E 10-1253 2-72 49357-



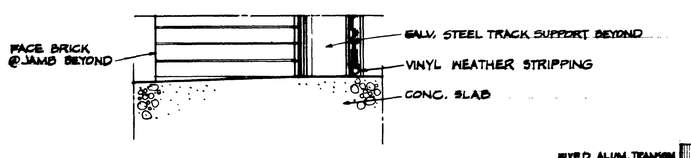
HEAD A-2/1



JAMB A-2/2



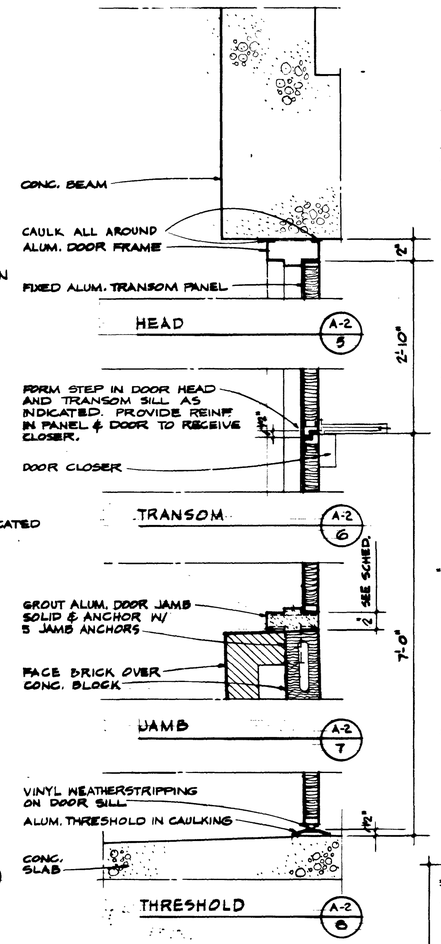
JAMB A-2/3



SILL A-2/4

DOOR & FIXED GLASS DETAILS

ALL DOOR & GLASS DET'S. SCALE 1½"=1'-0"

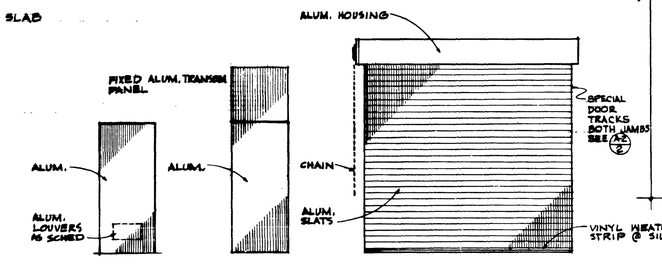


HEAD A-2/5

TRANSOM A-2/6

JAMB A-2/7

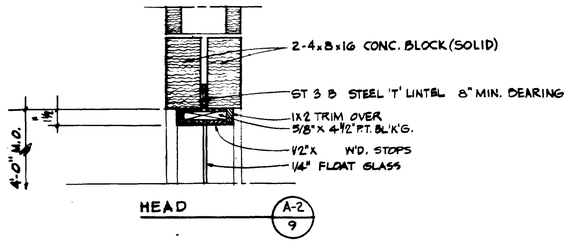
THRESHOLD A-2/8



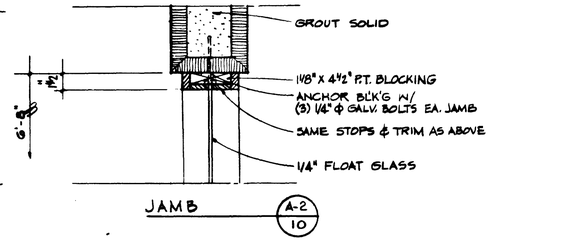
C B A

DOOR TYPES

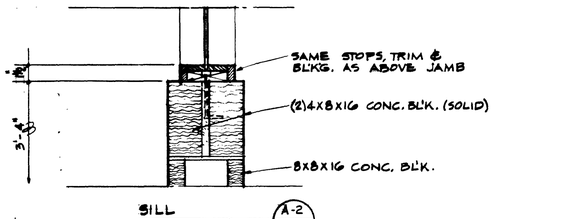
SCALE 1/4" = 1'-0"



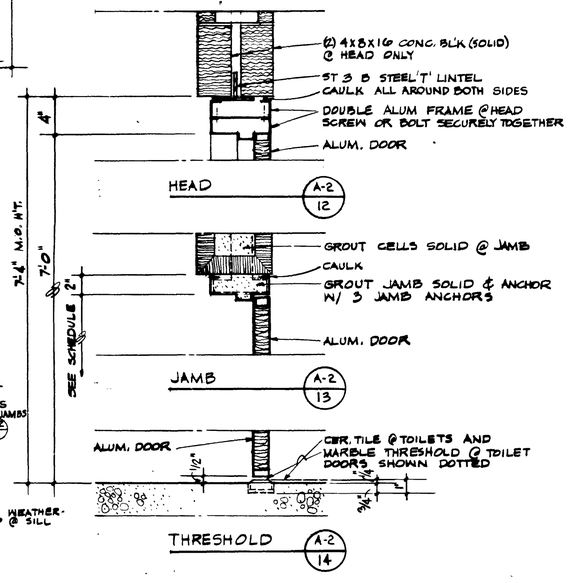
HEAD A-2/9



JAMB A-2/10



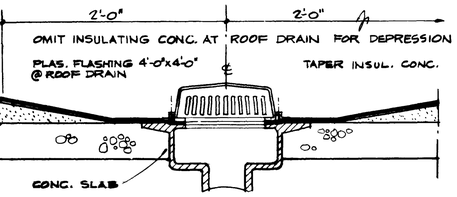
SILL A-2/11



HEAD A-2/12

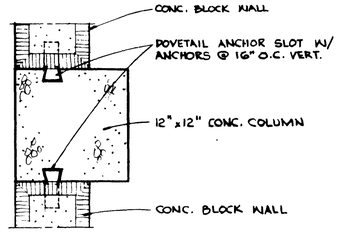
JAMB A-2/13

THRESHOLD A-2/14



TYPICAL ROOF DRAIN DET.

SCALE 1½"=1'-0"



COLUMN A-2/15

AS BUILT
APRIL 1977

7666

A-2

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

SUBMITTED BY: J. Don Asprd
REG. ENGR. FLA. NO. 2960 DATE 10/72
FLOOD & ASSOCIATES, INC.

APPROVAL RECOMMENDED BY: M. Swinfield
REG. ENGR. FLA. NO. 9663 DATE 1/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: J. W. Hyde
REG. ENGR. FLA. NO. 4279 DATE 2-7-73
WATER AND SEWER DIVISION

AUTHORIZED BY: Thompson
REG. ENGR. FLA. NO. 6747 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2

RIVERSIDE PUMPING STATION

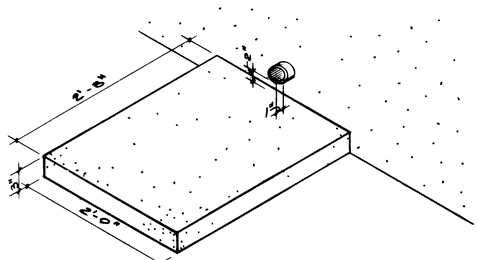
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. — GENERAL CONSULTANT

DETAILED BY: SBD | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY: JDA | 7207

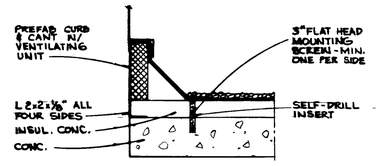
SECTIONS & DETAILS

CONTR. NO. JS-22 | PROJ. NO. 011-4 | SHEET NO. 32 OF 43

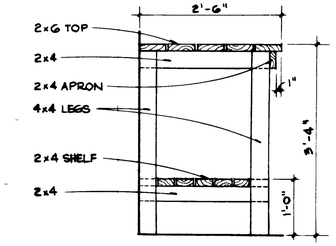
K&E 10-1253 2-72 46357-



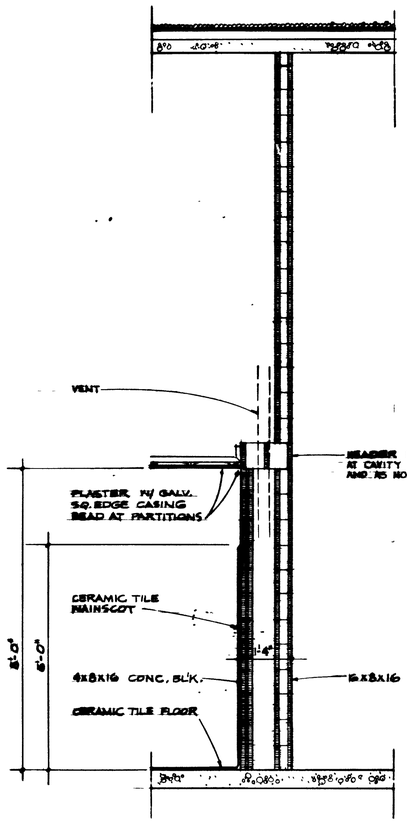
CONC. SPLASHBLOCK DETAIL (A-3 / 1)



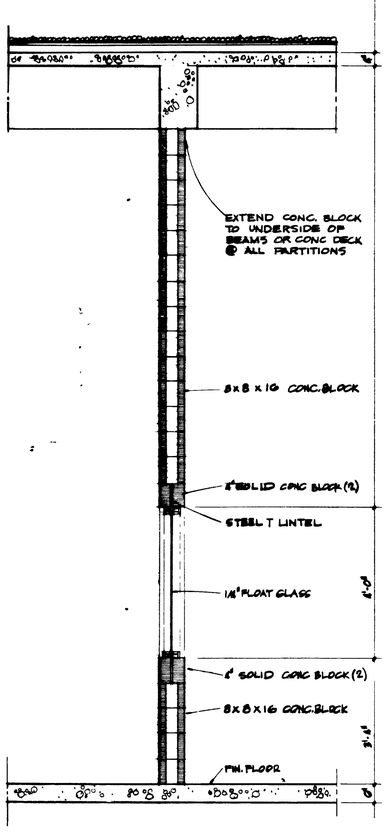
SECTION (A-3 / F)



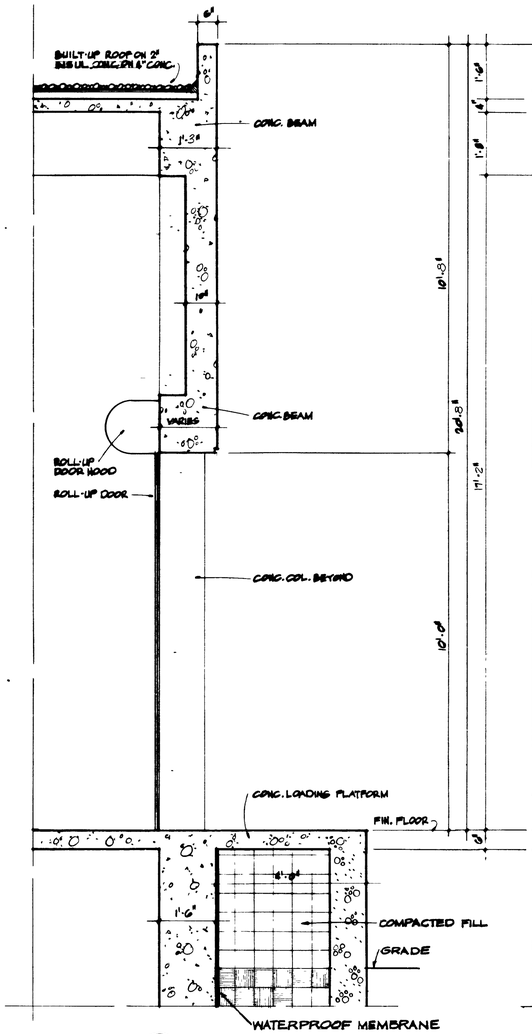
SECTION (A-3 / E)



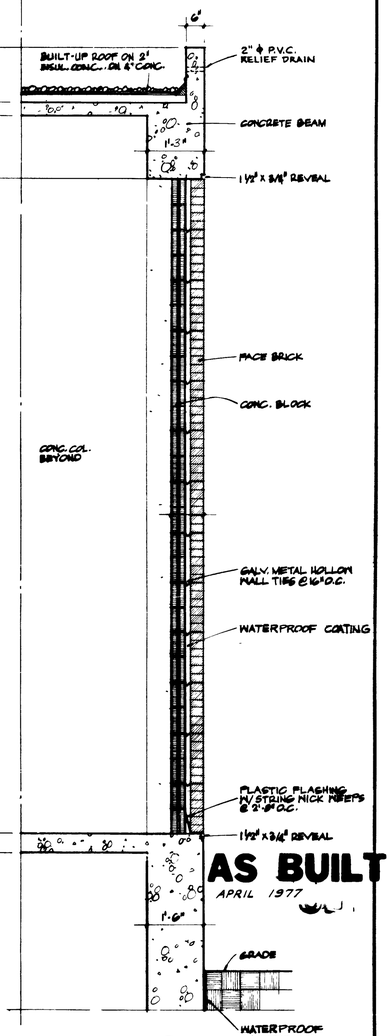
SECTION (A-3 / D)



SECTION (A-3 / C)



SECTION (A-3 / B)



SECTION (A-3 / A)

AS BUILT
APRIL 1977

7667 S

A-3

NO	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
	REVISIONS	SUBMITTAL			APPROVAL			

SUBMITTED BY T. Alton Arnold
REG ENGR FLA NO 2960 DATE 10/72
FLOOD & ASSOCIATES, INC
APPROVAL RECOMMENDED BY M. Lucas Jr. 2/73
REG ENGR FLA NO 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC

APPROVED BY Joe N. Hoyt
REG ENGR FLA NO 4270 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY Glenn Lamb
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

RIVERSIDE PUMPING STATION

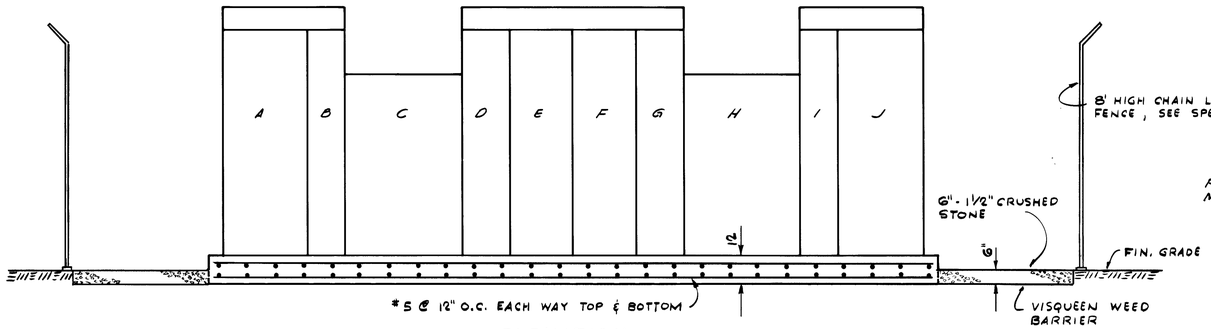
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc — GENERAL CONSULTANT

DETAILED BY SBD | SCALE AS SHOWN | DATE AUGUST 1972
CHECKED BY JDA | 7207

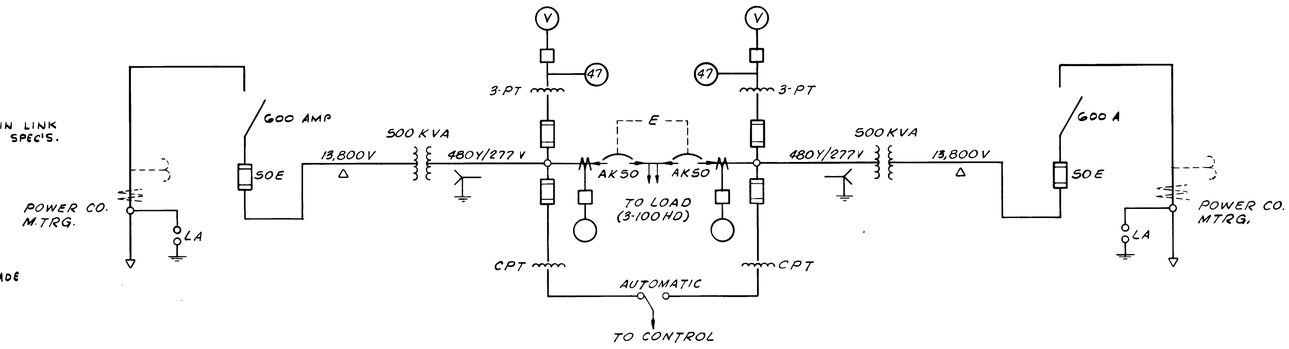
SECTIONS & DETAILS

CONTR NO JS-22 | PROJ NO 011-4 | SHEET NO 33 OF 43

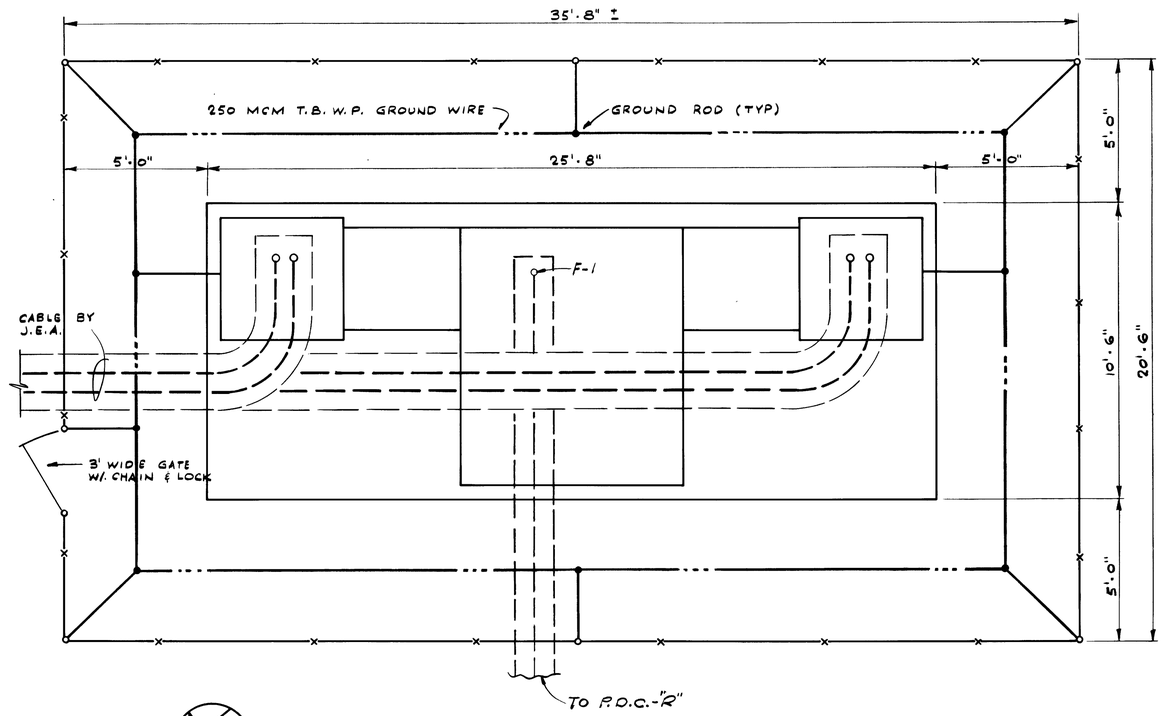
Edw. 10-1253 2-72 46367-



ELEVATION
SC. 3/8" = 1'-0"



SINGLE LINE DIAGRAM



PLAN
SC. 3/8" = 1'-0"

ITEM N°	DESCRIPTION
A	POWER CO. METERING & PRIMARY CIRCUIT BREAKER
B	TRANSITION CABINET
C	500 KVA TRANSFORMER
D	TRANSITION CABINET
E	FEEDER CIRCUIT BREAKER (800 AMP)
F	FEEDER CIRCUIT BREAKER (800 AMP)
G	TRANSITION CABINET
H	500 KVA TRANSFORMER
I	TRANSITION CABINET
J	POWER CO METERING & PRIMARY CIRCUIT BREAKER

AS BUILT
APRIL 1977

7668 S

E-2

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

SUBMITTED BY: Dan F. Bryant
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: M. Littlefield
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: D. H. Hoyt
REG. ENGR. FLA. NO. 4279 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: Olmsted
REG. ENGR. FLA. NO. 4847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

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

DETAILED BY: FEW
CHECKED BY: AC
SCALE AS SHOWN
DATE AUGUST, 72
7207

13.8 KVA OUTDOOR UNIT SUBSTATION

CONTR. NO. JS-24
PROJ. NO. 011-5
SHEET NO. 35 OF 43

KAE 10 1253 8-70

480 / 277 VOLT - 3 ϕ - 3 WIRE BUS

100/20 — FVNR * SIZE 1 — R, G, PBM — 3/4 — 50 (R)

SUPPLY FAN SF 3

100/20 — FVNR * SIZE 1 — R, G, PBM — 1 — 50 (R)

SUPPLY FAN SF 2

100/20 — FVNR * SIZE 1 — R, G, PBM — 1 — 50 (R)

SUPPLY FAN SF 1

* INTERLOCK SUPPLY FANS WITH ASSOCIATED STRIP HEATERS

100/20 — R, G, PBM

WET WELL LEVEL CONTROLS

200/200 — S1, ALT, HS

VARIABLE FREQUENCY INVERTER Nº 1

200/200 — S1, ALT, HS

VARIABLE FREQUENCY INVERTER Nº 2

200/200 — RVNR SIZE 4

EMERGENCY STARTER

200/200 — R, TS, R — 50 (R) — 100

PUMP Nº 1

200/200 — R, TS, R — 50 (R) — 100

PUMP Nº 2

200/200 — R, TS, R — 50 (R) — 100

PUMP Nº 3

200/200 — R, TS, R — 50 (R) — 100

PUMP Nº 4

480/277 VOLT - 3 ϕ - 3 WIRE BUS

100/20 — FVNR SIZE 1 — R, G — 3/4 — 50 (R)

EXHAUST FAN EF-1

100/20 — FVNR SIZE 1 — R, G — 3/4 — 50 (R)

EXHAUST FAN EF-2

100/20 — FVNR SIZE 1 — R, G — 1/2 — 50 (R)

EXHAUST FAN EF-3

100/20 — FVNR SIZE 1 — R, G — 3/4 — 50 (R) — T — (R)

EXHAUST FAN EF-7

100/20 — FVNR SIZE 1 — R, G — 3/4 — 50 (R) — T — (R)

EXHAUST FAN EF-8

100/20 — FVNR SIZE 1 — R, G — 3/4 — 50 (R) — T — (R)

EXHAUST FAN EF-9

100/20 — FVNR SIZE 1 — R, G — 3/4 — 50 (R) — T — (R)

EXHAUST FAN EF-10

100/20 — FVNR SIZE-1 — R, G, PBM

100/20 — FVNR SIZE-1 — R, G, PBM

SPARES

FOR CONT. SEE SHEET Nº E-4

AS BUILT
APRIL 1977

7669

E-3

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

SUBMITTED BY: Dale E. Hayhurst
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.

APPROVAL RECOMMENDED BY: M. Lambertsen
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, Inc.

APPROVED BY: [illegible]
REG. ENGR. FLA. NO. 4270 DATE 2/73
WATER AND SEWER DIVISION

AUTHORIZED BY: [illegible]
REG. ENGR. FLA. NO. 6847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

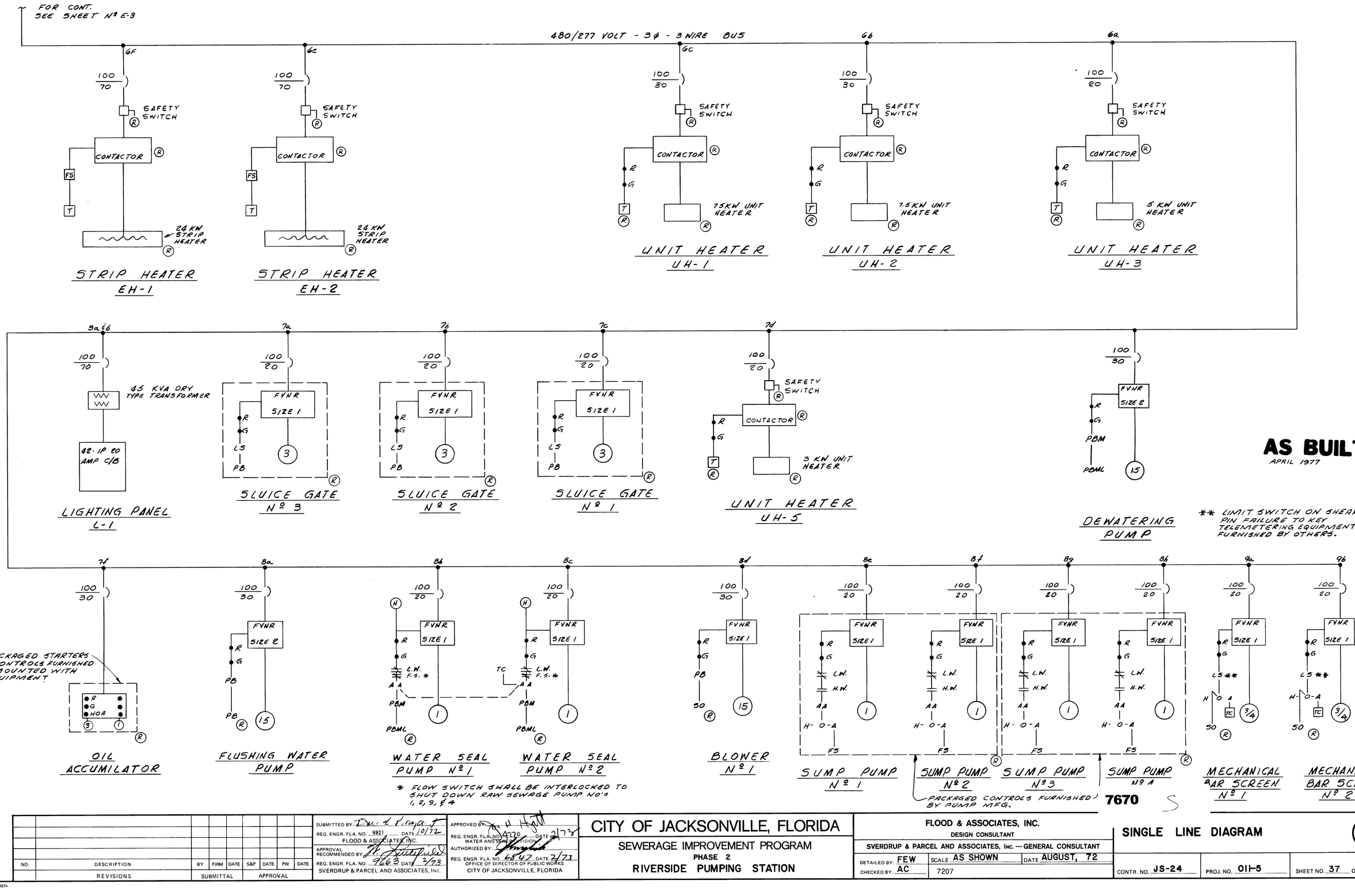
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

DETAILED BY: FEW | SCALE AS SHOWN | DATE AUGUST, 72
CHECKED BY: AC | 7207

SINGLE LINE DIAGRAM

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 36 OF 43



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

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

APPROVED BY: [illegible] REG. ENGR. FLA. NO. 4770 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: [illegible] REG. ENGR. FLA. NO. 6847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

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

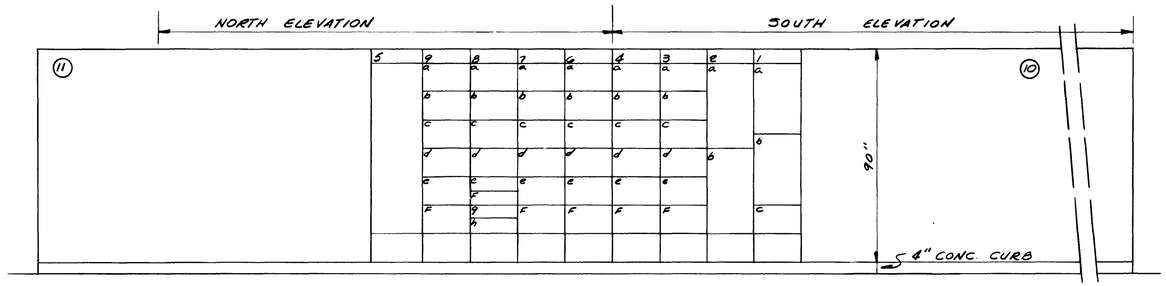
DETAILED BY: FEW SCALE AS SHOWN DATE AUGUST, 72
CHECKED BY: AC 7207

SINGLE LINE DIAGRAM

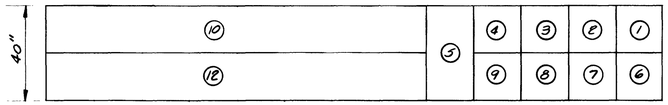
E-4

CONTR. NO. JS-24 PROJ. NO. 011-5 SHEET NO. 37 OF 43

K&E 10-1253 2-72 49357•



ELEVATION P.O.C. - "R"
SCALE : 3/8" = 1'-0"



PLAN - POWER DISTRIBUTION CENTER "R"
SCALE : 3/8" = 1'-0"

ITEM Nº	DESCRIPTION
1a	RAW SEWAGE PUMP Nº 3
1b	" " " Nº 4
1c	REMOTE ON-OFF MAIN FEEDER BREAKER FROM OUTDOOR UNIT SUB-STA.
2a	LIGHTING TRANSFORMER - 45 KVA
2b	LIGHTING PANEL
3a	SUPPLY FAN, SF-1
3b	SUPPLY FAN - SF-2
3c	SUPPLY FAN - SF-3
3d	EXHAUST FAN, EF-1
3e	" " EF-2
3f	" " EF-3
4a	" " EF-7
4b	" " EF-8
4c	" " EF-9
4d	" " EF-10
4e	SPARE - (EQUIPPED)
4f	SPARE - (EQUIPPED)
6a	UNIT HEATER, UH-3
6b	" " , UH-2
6c	" " , UH-1
6d	SPARE
6e	" " , EH-2
6f	" " , EH-1
7a	SLUICE GATE Nº 3
7b	" " Nº 2
7c	" " Nº 1
7d	UNIT HEATER, UH-5
7e	SPARE
7f	OIL ACCUMULATOR
8a	FLUSHING WATER PUMP
8b	WATER SEAL PUMP Nº 1
8c	" " " Nº 2
8d	BLOWER Nº 1
8e	SUMP PUMP Nº 1
8f	" " Nº 2
8g	" " Nº 3
8h	" " Nº 4
9a	MECHANICAL BAR SCREEN Nº 1
9b	" " " Nº 2
9c,d,e,f	BLANK SPACES
5	WET WELL LEVEL CONTROLS
10	SEWAGE PUMP Nºs 1 & 2 VARIABLE SPEED CONTROLLER
11	" " " 3 & 4 " " "

AS BUILT
APRIL 1977

E-5

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

SUBMITTED BY: Dan E. Kingsbury
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: H. Swinfield
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: [illegible]
REG. ENGR. FLA. NO. 4270 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: [illegible]
REG. ENGR. FLA. NO. 6847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

7671 S

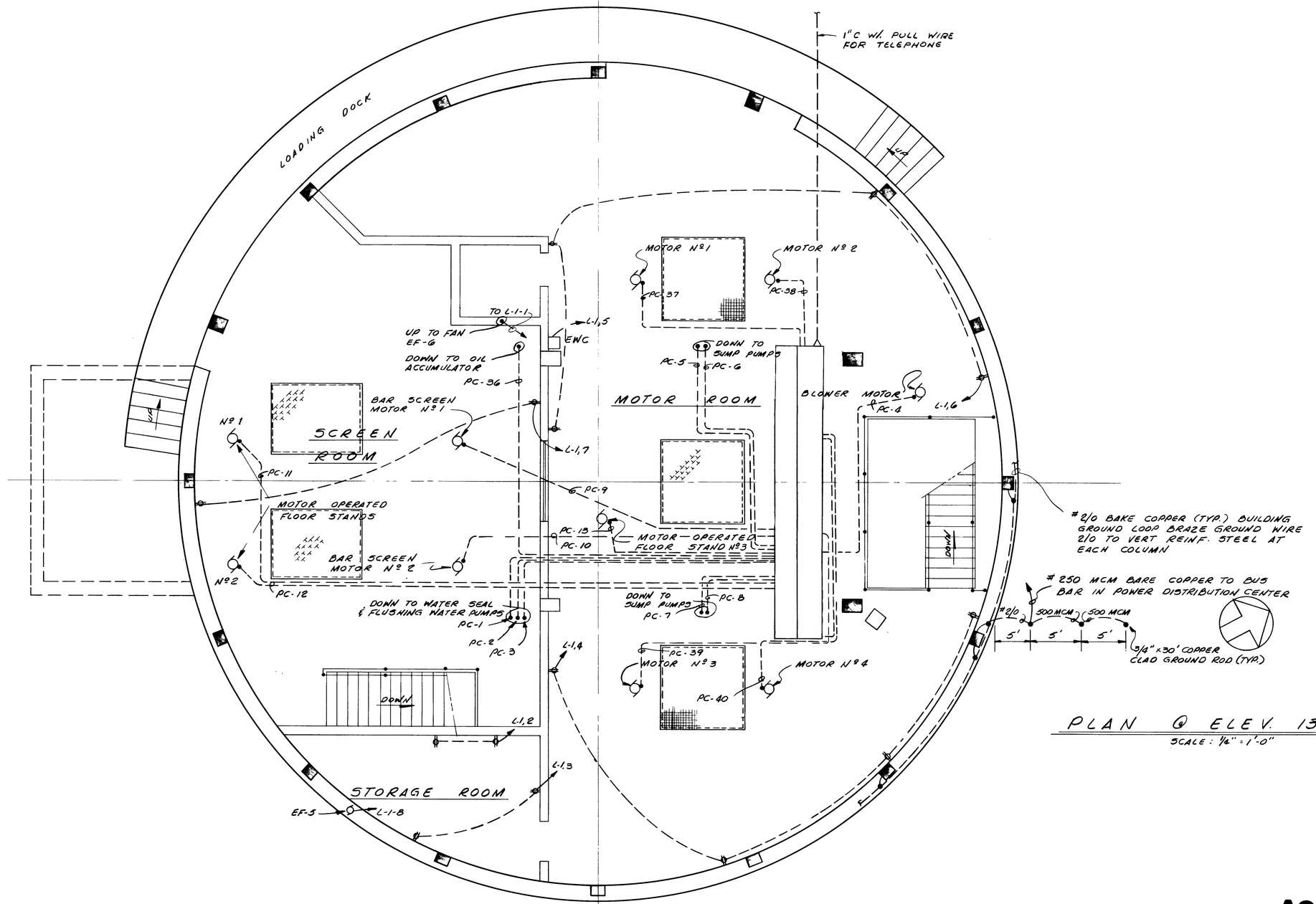
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT

DETAILED BY: FEW | SCALE AS SHOWN | DATE AUGUST, 72
CHECKED BY: AC | 7207

POWER DISTRIBUTION CENTER

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 38 OF 43

K&E 19-1253 2-72 49357-



PLAN @ ELEV. 13.50

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

AS BUILT
APRIL 1977

7672 S

E-6

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

SUBMITTED BY: [signature]
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.

APPROVAL RECOMMENDED BY: [signature]
REG. ENGR. FLA. NO. 7663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: [signature]
REG. ENGR. FLA. NO. 9270 DATE 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY: [signature]
REG. ENGR. FLA. NO. 6847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

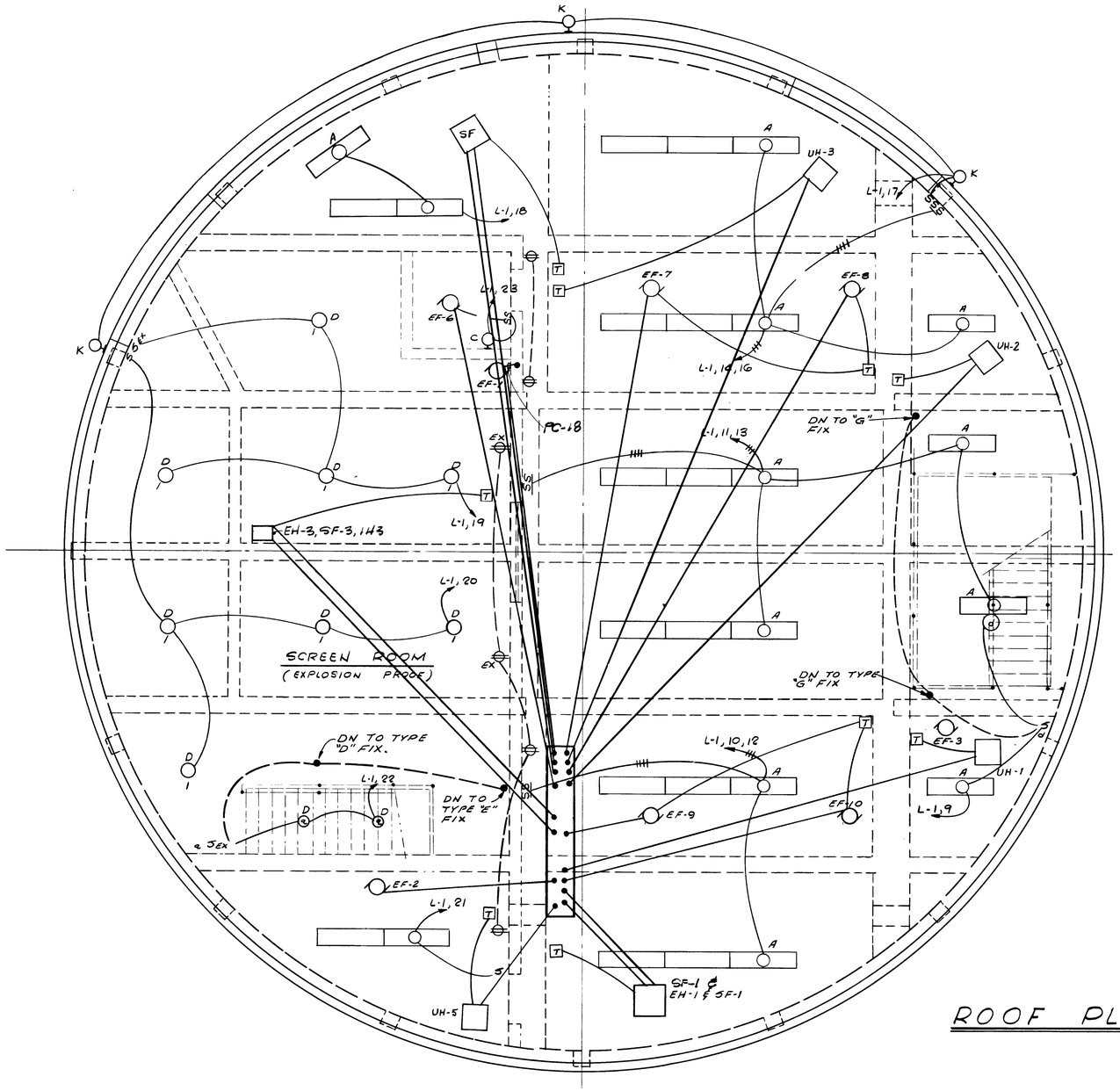
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT

DETAILED BY: FEW | SCALE AS SHOWN | DATE AUGUST, 72
CHECKED BY: AC | 7207

POWER PLAN AT ELEVATION 9.00

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 39 OF 43

K&E 19-1253 2-72 49357•



FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATLOG NO.	LAMP	MOUNTING
A	LITHONIA	AF-248-HO-PO		CEILING
B	CROUSE HINDS	EVCX 2011	150 W	CEILING
C	GUTH	B-1340	75W	BRACKET WITH RECEPT.
D	CROUSE HINDS	EVCX 2051	200 W	CEILING EXPLOSION PROOF
E	CROUSE HINDS	EVBX 205	200 W	BRACKET EXPLOSION PROOF
F	CROUSE HINDS	GS-8	200 W	CEILING
G	CROUSE HINDS	GS-9	200 W	BRACKET
K	McPHILBEN	298-211	100W	BRACKET

NOTE:

ALL FLUORESCENT FIXTURES TYPE A.

ROOF PLAN - POWER & LIGHTING

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

7673 S

AS BUILT
APRIL 1977

E-7

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

SUBMITTED BY: Dell E Fouraker
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.

APPROVAL RECOMMENDED BY: W Sandifer
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, Inc.

APPROVED BY: A Hyatt
REG. ENGR. FLA. NO. 4270 DATE 3/73
WATER AND SEWER DIVISION
AUTHORIZED BY: [illegible]
REG. ENGR. FLA. NO. 6847 DATE 3/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPNG STATION

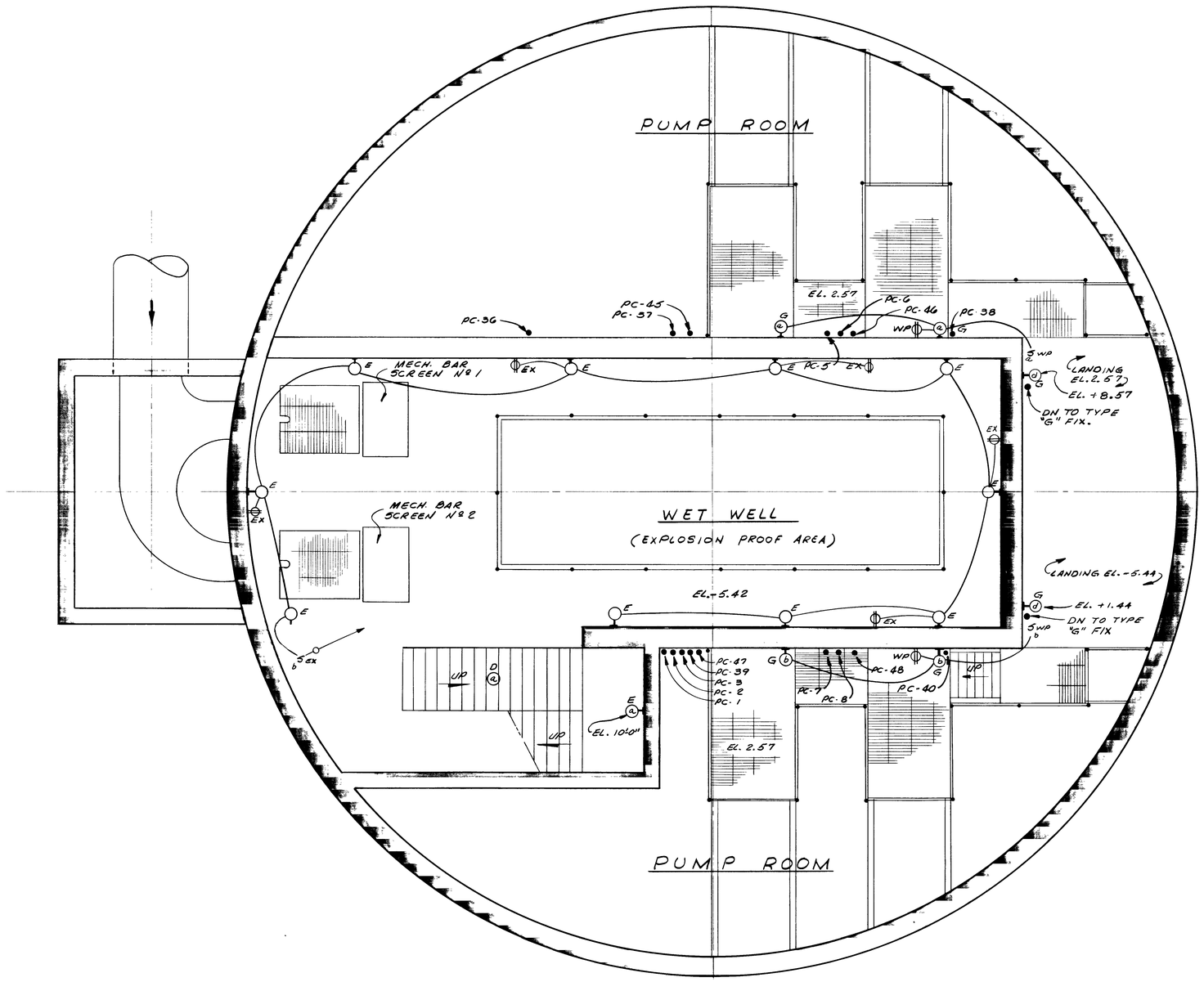
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

DETAILED BY: FEW | SCALE AS SHOWN | DATE AUGUST, 72
CHECKED BY: AC | 7207

ROOF PLAN-POWER & LIGHTING PLAN

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 40 OF 43

K&E 19-1253 2-72 49357-



PLAN @ ELEV. 2.57

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

AS BUILT
APRIL 1977

E-8

7674 S

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

SUBMITTED BY: Dru E. Rayburt
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.
APPROVAL RECOMMENDED BY: H. Littlefield
REG. ENGR. FLA. NO. 9663 DATE 2/73
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: Joe H. Hyatt
REG. ENGR. FLA. NO. 4270 DATE 2/13/73
WATER AND SEWER DIVISION
AUTHORIZED BY:
REG. ENGR. FLA. NO. 6867 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

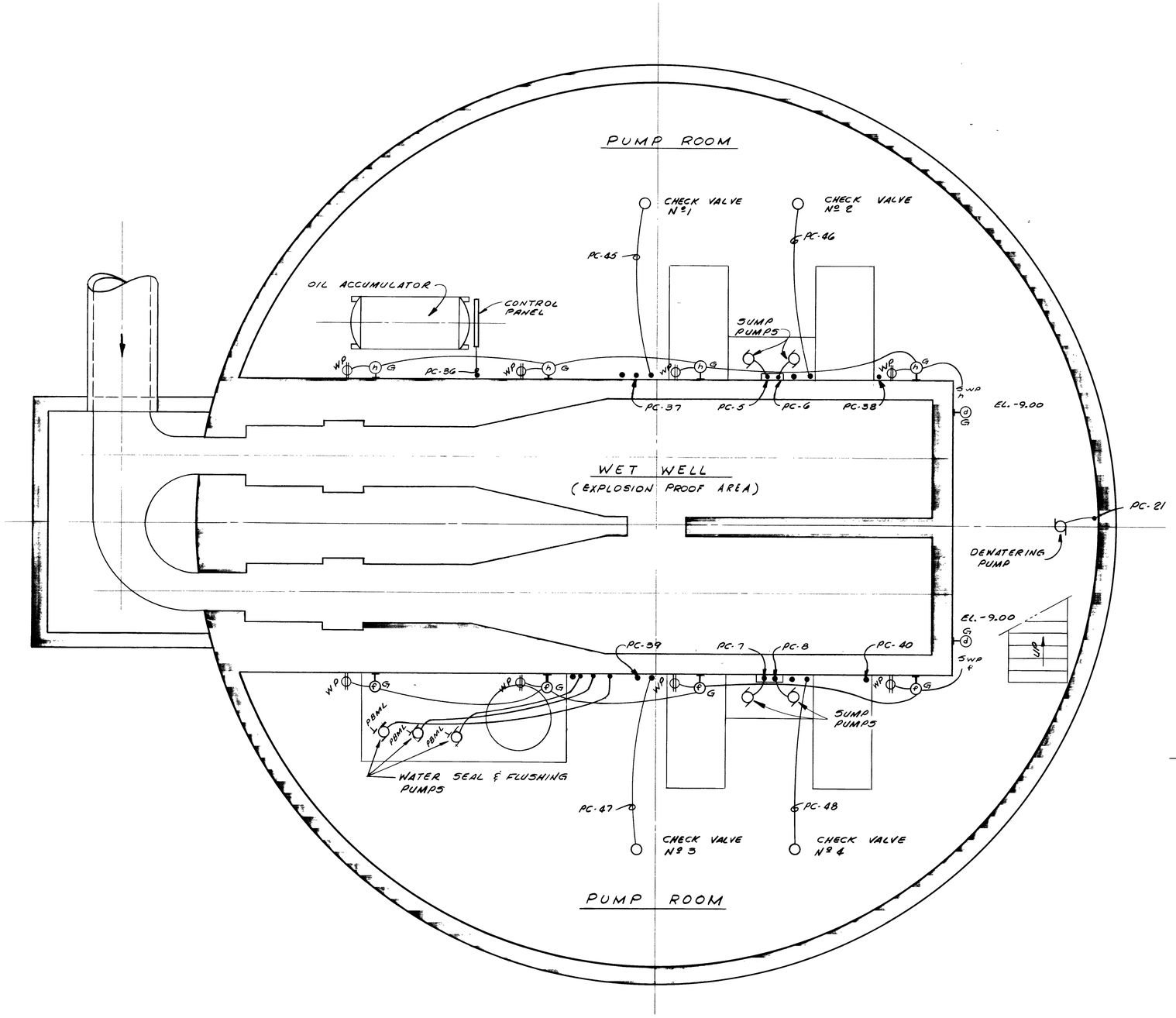
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT

DETAILED BY: FEW | SCALE AS SHOWN | DATE AUGUST, 72
CHECKED BY: AC | 7207

PLAN AT ELEVATION 2.57

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 41 OF 43

K&E 19-1253 2-72 49357•



PLAN @ ELEV. -17.44

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

AS BUILT
APRIL 1977

E-9

7675 S

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

SUBMITTED BY: Duff Hayford
REG. ENGR. FLA. NO. 4921 DATE 10/72
FLOOD & ASSOCIATES, INC.

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

APPROVED BY:
REG. ENGR. FLA. NO. 6270 DATE 2/73
WATER AND SEWER DIVISION

AUTHORIZED BY:
REG. ENGR. FLA. NO. 6847 DATE 2/73
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT

DETAILED BY: FEW | SCALE: AS SHOWN | DATE: AUGUST, 72
CHECKED BY: AC | 7207

PLAN AT ELEVATION - 17.44

CONTR. NO. JS-24 | PROJ. NO. 011-5 | SHEET NO. 42 OF 43

K&E 19-1253 2-72 49357•

CONDUIT		CABLE				FROM	TO *	FOR	REMARKS
NO.	SIZE	COND.	SIZE	INS.	VOLT.				
PC-1	1"	5	10	THW	600	POWER DISTRIBUTION CENTER "R"	FLUSHING WATER PUMP	POWER & "PB"	
PC-2		7					WATER SEAL PUMP NO. 1	POWER PBNL	
PC-3		7					WATER SEAL PUMP NO. 2	POWER PBNL	
PC-4		5					BLOWER NO. 1	POWER & "SO"	
PC-5		5					SUMP PUMP NO. 1	POWER & "SO" & "FS"	
PC-6		5					SUMP PUMP NO. 2	POWER & "SO" & "FS"	
PC-7		5					SUMP PUMP NO. 3	POWER & "SO" & "FS"	
PC-8		5					SUMP PUMP NO. 4	POWER & "SO" & "FS"	
PC-9		7					BAR SCREEN NO. 1	POWER & "SO" & "TC"	
PC-10		7					BAR SCREEN NO. 2	POWER & "SO" & "TC"	
PC-11		5					SLUICE GATE NO. 1	POWER & "PB" & "LS"	
PC-12		5					SLUICE GATE NO. 2	POWER & "PB" & "LS"	
PC-13		5					SLUICE GATE NO. 3	POWER & "PB" & "LS"	
PC-14		7					SUPPLY FAN NO. 1	POWER & "SO"	
PC-15		7					SUPPLY FAN NO. 2	POWER & "SO"	
PC-16	1"	7	10				SUPPLY FAN NO. 3	POWER & "SO"	
PC-17	SPARE								
PC-18	1"	5	10				EXHAUST FAN NO. 1	POWER & "SO"	
PC-19		5	10				EXHAUST FAN NO. 2	POWER & "SO"	
PC-20		5	10				EXHAUST FAN NO. 3	POWER & "SO"	
PC-21		5	10				DEWATERING PUMP	POWER & "SO"	
PC-22		5	10				EXHAUST FAN NO. 5	POWER & "SO"	
PC-23		5	10				EXHAUST FAN NO. 6	POWER & "SO"	
PC-24		5	10				EXHAUST FAN NO. 7	POWER & "SO" & T	
PC-25		3 2	6 12				STRIP HEATER NO. 1	POWER & T	
PC-26		3 2	6 12				STRIP HEATER NO. 2	POWER & T	
PC-28		3 2	8 12				UNIT HEATER NO. 1	POWER & T	
PC-29		3 2	8 12				UNIT HEATER NO. 2	POWER & T	
PC-30		3 2	8 12				UNIT HEATER NO. 3	POWER & T	
PC-32		3 2	8 12				UNIT HEATER NO. 5	POWER & T	
PC-33		5	10				EXHAUST FAN NO. 8	POWER & "SO" & T	
PC-34		5	10				" " NO. 9	POWER & "SO" & T	
PC-35		5	10				" " NO 10	POWER & "SO" & T	
PC-36	1"	3	10				OIL ACCUMULATOR	POWER	
PC-37	2"	3	4/10				SEWAGE PUMP NO 1	POWER	
	1"	6	10				" " NO. 1	"SO"	
PC-38	2"	3	4/0				" " NO. 2	POWER	
	1"	6	10				" " NO. 2	"SO"	
PC-39	2"	3	4/0				" " NO. 3	POWER	
	1"	6	10				" " NO. 3	"SO"	
PC-40	2"	3	4/0				" " NO. 4	POWER	
	1"	6	10				" " NO. 4	"SO"	
PC-45	1"	6	10				PUMP NO. 1 CHECK VALVE	POWER & CONTROL	
PC-46	1"	6	10				" NO. 2 " "	" & "	
PC-47	1"	6	10				" NO. 3 " "	" & "	
PC-48	1"	6	10			POWER DISTRIBUTION CENTER "R"	" NO. 4 " "	POWER & CONTROL	
F-1	3-3"	3 EA	500	THW	600	POWER DISTRIBUTION CENTER "R"	OUTDOOR UNIT SUBSTATION	POWER	

AS BUILT
APRIL 1977

E-10

7676

NO	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
	REVISIONS	SUBMITTAL			APPROVAL			

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 2/73
WATER AND SEWER DIVISION
AUTHORIZED BY [signature]
REG ENGR FLA NO 4267 DATE 2/23
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
PHASE 2
RIVERSIDE PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC — GENERAL CONSULTANT

DETAILED BY FEW | SCALE AS SHOWN | DATE AUGUST, 72
CHECKED BY AC | 7207

CONDUIT AND CABLE SCHEDULES

CONTR NO JS-24 | PROJ. NO 011-5 | SHEET NO 43 OF 43

K&E 10 1253 8-71 47159-