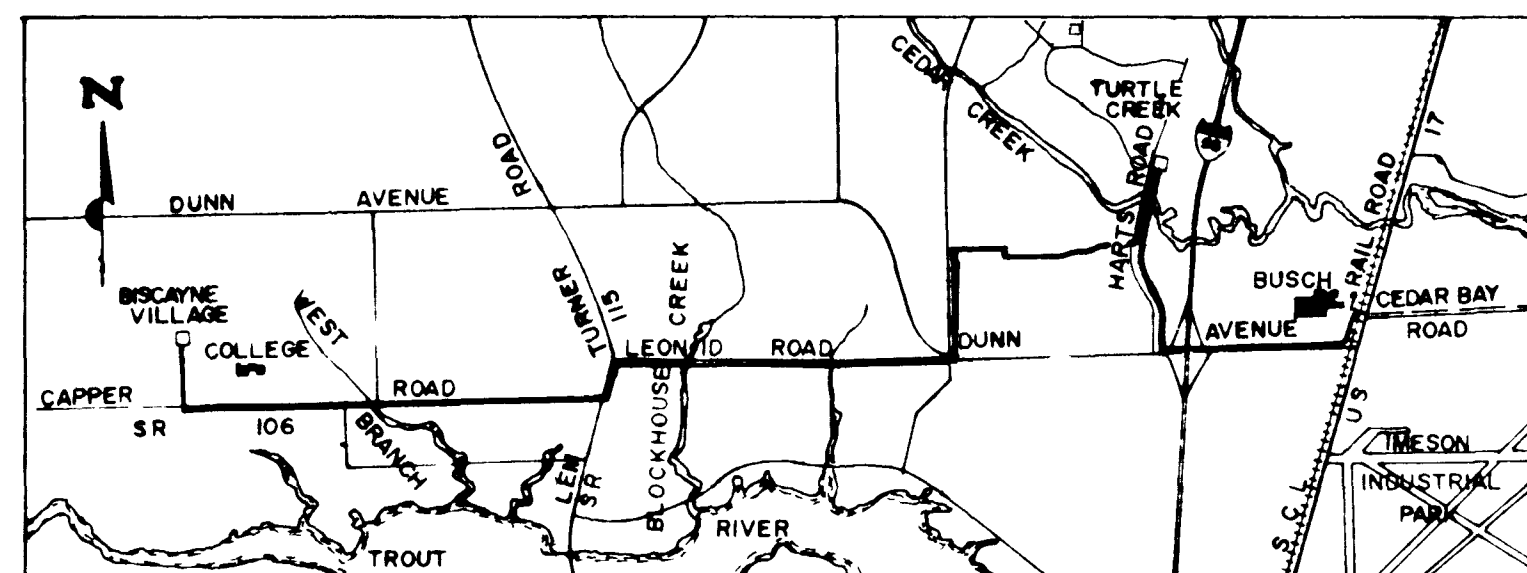


CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM

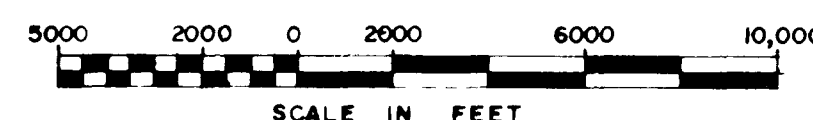
PHASE 2

PRESSURE MANIFOLD SYSTEM
SEWAGE PUMPING STATIONS
NORTH DISTRICT

NO. JS-41.1 PART I
EPA PROJECT CONTROL NO. C120543030



VICINITY MAP



JAKE M. GODBOLD
MAYOR

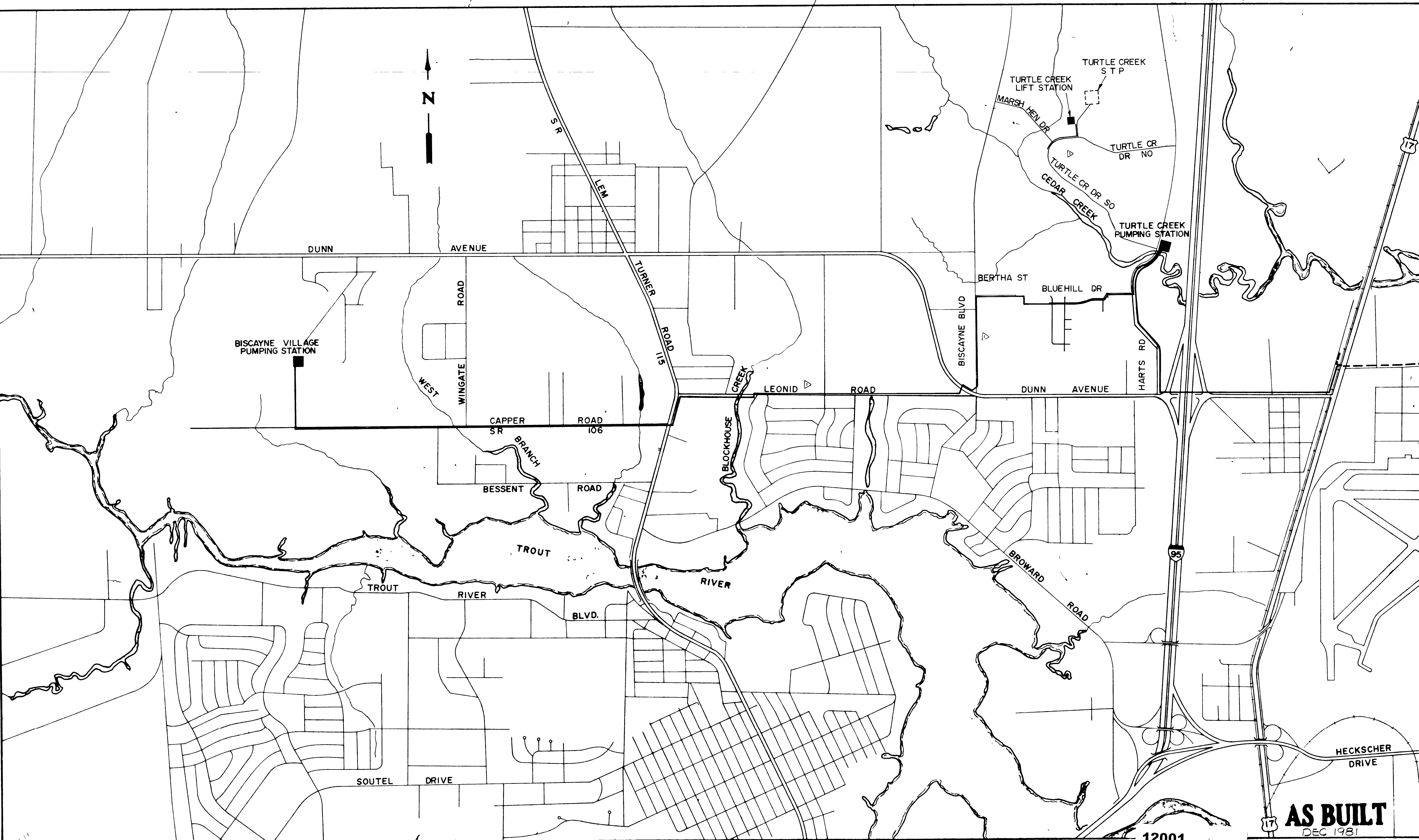
SANITARY APPROVED
DATE 6-11-82 BY *MB*
DEPARTMENT OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

WAITZ & FRYE CONSULTING ENGINEERS INC.
DESIGN CONSULTANT JACKSONVILLE, FLORIDA
SVERDRUP & PARCEL AND ASSOCIATES, INC.
GENERAL CONSULTANT JACKSONVILLE, FLORIDA

12000

JANUARY 1979

AS BUILT
DEC 1981



SUBMITTED BY <i>Human Work</i> REG. ENGR. FLA. NO. 7654 DATE 7-15-78 WAITZ & FRYE CONSULTING ENGINEERS, INC.										APPROVED BY _____ DATE _____ REG. ENGR. FLA. NO. _____ DATE _____ WATER AND SEWER DIVISION AUTHORIZED BY <i>[Signature]</i> DATE 7-17-78 REG. ENGR. FLA. NO. 4270 DATE 7-17-78 OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM SEWAGE PUMPING STATION NORTH DISTRICT PART I										WAITZ & FRYE CONSULTING ENGINEERS, INC. SVRDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT DETAILED BY D K CHECKED BY S W SCALE 1" = 1000' DATE _____ CONTRACT NO. JS-41.1 PROJECT NO. _____ SHEET NO. 2 OF 65									
APPROVAL RECOMMENDED BY <i>[Signature]</i> REG. ENGR. FLA. NO. 9663 DATE 7-25-78 SVRDRUP & PARCEL AND ASSOCIATES, INC.																																							
REVISIONS										SUBMITTAL										APPROVAL																			

I N D E X

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2	LOCATION PLAN	35	TURTLE CREEK PUMPING STATION - STRUCTURAL FLOOR PLAN
3	INDEX	36	TURTLE CREEK PUMPING STATION - STRUCTURAL FLOOR PLAN
4	GENERAL NOTES	37	TURTLE CREEK PUMPING STATION - STRUCTURAL FLOOR PLAN
5	LEGEND AND ABBREVIATIONS	38	TURTLE CREEK PUMPING STATION - STRUCTURAL CROSS SECTION
6	BISCAYNE VILLAGE PUMPING STATION-SITE PLAN	39	TURTLE CREEK PUMPING STATION - STRUCTURAL CROSS SECTION
7	BISCAYNE VILLAGE PUMP STA.-SITE LTG., PAVING & DRAINAGE PLAN	40	TURTLE CREEK PUMPING STATION - STRUCTURAL REINF. PLAN
8	BISCAYNE VILLAGE PUMPING STATION - ENTRANCE ROAD	41	TURTLE CREEK PUMPING STATION - STRUCTURAL REINF. PLAN
9	BISCAYNE VILLAGE PUMPING STATION - EXTERIOR ELEVATIONS	42	TURTLE CREEK PUMPING STATION - STRUC. BASE SLAB REINF. PLAN
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13	BISCAYNE VILLAGE PUMPING STATION - STRUCTURAL FLOOR PLAN	46	TURTLE CREEK PUMPING STATION - VENTILATION CROSS SECTIONS
14	BISCAYNE VILLAGE PUMPING STATION - STRUCTURAL FLOOR PLAN	47	TURTLE CREEK PUMPING STATION - LIGHTING PLAN
15	BISCAYNE VILLAGE PUMPING STATION - STRUCTURAL FLOOR PLAN	48	TURTLE CREEK PUMPING STATION - LIGHTING PLAN & SCHEDULE
16	BISCAYNE VILLAGE PUMPING STATION - STRUCTURAL CROSS SECTION	49	TURTLE CREEK PUMPING STATION - ELEC. SINGLE LINE DIAGRAM
17	BISCAYNE VILLAGE PUMPING STATION - STRUC. BASE SLAB REINF. PLAN	50	TURTLE CREEK PUMPING STATION - SEQUENCING DIAGRAM
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33	TURTLE CREEK PUMPING STATION - MECHANICAL CROSS SECTION		

NOTE:

INASMUCH AS THIS IS A SET OF AS-BUILT DRAWINGS, ALL WORK SAID TO BE DONE, HAS BEEN DONE.

AS BUILT

DEC. 1981

INDEX

12002

CITY OF JACKSONVILLE, FLORIDA

WAITZ & FRYE CONSULTING ENGINEERS, INC.

SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

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

DETAILED BY: R. R. SCALE: DATE:
CHECKED BY: S. W.

CONTR. NO. JS-41.1

PROJ. NO.

SHEET NO. 3 OF 65



GENERAL NOTES

- 1 ALL ELEVATIONS BASED ON U S C & G S DATUM
- 2 ALL ELEVATIONS SHOWN ARE IN FEET
- 3 IN ACCORDANCE WITH THE GENERAL CONDITIONS, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW THE GROUND SURFACE
- 4 THE CONTRACTOR SHALL RESTORE ALL STORM DRAIN PIPE AND INLETS REMOVED OR DISTURBED BY THE CONSTRUCTION OPERATION THE COST OF THE ITEM SHALL BE INCLUDED IN THE BID PRICE FOR FURNISHING AND INSTALLING NEW GRAVITY SEWER PIPE AND FORCE MAIN
- 5 THE JACKSONVILLE ELECTRIC AUTHORITY IS TO BE NOTIFIED PRIOR TO EXCAVATING IN THE AREA OF EXISTING BURIED ELECTRIC LINES
- 6 THE EXISTING BURIED TELEPHONE LINES AS SHOWN ON THE DRAWINGS WERE FURNISHED BY SOUTHERN BELL TEL & TEL CO AND CERTAIN LINES WERE FIELD LOCATED AS SHOWN IN THE PROFILE THE TELEPHONE CO IS TO BE NOTIFIED PRIOR TO EXCAVATING IN THE AREA OF EXISTING BURIED TELEPHONE LINES
- 7 STATIONING SHOWN ON DRAWING REFER TO CENTERLINE OF FORCE MAIN
- 8 CONTRACTOR SHALL EMPLOY LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNERS AND LAND MARKERS WHICH MAY BE DISTURBED BY CONSTRUCTION
9. EXISTING TOPOGRAPHIC FEATURES SHOWN ON THE DRAWINGS WERE TAKEN FROM AERIAL PHOTOGRAPHS AND ARE TO BE USED FOR GENERAL INFORMATION ONLY
- 10 PROFILE GRADE SHOWN ON DRAWINGS REFER TO ACTUAL CENTERLINE OF FORCE MAIN AND WERE TAKEN FROM AERIAL PHOTOGRAPH CONTOUR MAPS
- 11 NEW CONSTRUCTION IS SHADED ON PROFILE DRAWINGS
- 12 ALL NEW PIPES SHALL HAVE A MINIMUM DEPTH OF COVER OF THREE(3) FEET, MEASURED FROM TOP OF PIPE TO GROUND LEVEL, EXCEPT AS OTHERWISE NOTED ON DRAWINGS
- 13 UNDERGROUND ELECTRIC AND UNDERGROUND TELEPHONE LOCATED FROM RECORDS NOT ACTUALLY LOCATED IN FIELD ALL WATER LINES SHOWN AT 3' BURY ARE ASSUMED
- 14 THE DEPARTMENT OF TRANSPORTATION IS TO BE NOTIFIED 24 HOURS IN ADVANCE OF CONSTRUCTION WITHIN STATE RIGHT-OF-WAY
- 15 ALL PAVING TO BE CASE I UNLESS OTHERWISE NOTED ON PLANS

- 16 EXISTING SEWER SERVICES ARE TO REMAIN CONTINUOUS THROUGH - OUT CONSTRUCTION.
- 17 WHERE FORCE MAIN IS LAID UNDER CANALS, DITCHES, CULVERTS, OR OTHER PIPELINES, WITHOUT FITTINGS, THE MAXIMUM DEFLECTION AT ANY JOINT SHALL NOT EXCEED 90% OF THE MAXIMUM DEFLECTION RECOMMENDED BY THE MANUFACTURER OF THE PIPE FURNISHED.
- 18 THE CONTRACTOR SHALL PROVIDE NO LESS THAN A 6-INCH CLEARANCE BETWEEN ALL UTILITIES, UNLESS OTHERWISE DIRECTED. NO SPECIAL PAYMENT ALLOWED

12003

AS BUILT

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.

SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT

DETAILED BY ASH SCALE NONE DATE
CHECKED BY S W

GENERAL NOTES

CONTR NO JS-41.1

PROJ NO

SHEET NO 4 OF 65

NO	DESCRIPTION	BY	FWM	DATE	SAP	DATE	PW	DATE
	REVISIONS							

SUBMITTED BY *James Wait*
REG ENGR FLA NO 7694 DATE 7-15-74
WAITZ & FRYE CONSULTING ENGINEERS INC
APPROVAL
RECOMMENDED BY *H. Lutz*
REG ENGR FLA NO 9663 DATE 7-25-74
SVERDRUP & PARCEL AND ASSOCIATES INC

APPROVED BY
REG ENGR FLA NO DATE
WATER AND SEWER DIVISION
AUTHORIZED BY *H. Lutz*
REG ENGR FLA NO 8313 DATE 7-25-74
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE FLORIDA

LEGEND

- 8" VC PROPOSED SANITARY SEWER AND MH UP TO 24"
- 36" RCP PROPOSED SANITARY SEWER AND MH 30" AND LARGER
- FM NEW FORCE MAIN
- FM EXIST FORCE MAIN
- S 8" EXIST SANITARY SEWER AND MANHOLE
- 24" D EXIST STORM SEWER AND INLET
- W 8" EXIST WATER LINE
- W VALVE EXIST WATER VALVE
- EXIST FIRE HYDRANT
- G EXIST GAS LINE
- T EXIST. BURIED TELEPHONE CABLE OR CONDUIT AND MH
- E EXIST BURIED ELECTRICAL CABLE OR CONDUIT AND VAULT
- EXIST UTILITY POLE
- X-X FENCE
- R/W
- EXIST PAVEMENT (NO CURB)
- EXIST PAVEMENT W/CURB & GUTTER
- RESIDENCE AND/OR BUSINESS BLDG
- CONC SIDEWALK OR DRIVEWAY
- SHRUBS, FLOWERS, TREES
- SOIL BORING LOCATION
- SIGN
- TRAFFIC CONTROL
- EXIST. DRAINAGE JUNCTION BOX
- TELEPHONE RISER
- SOUNDING LOCATION
- EXIST CONCRETE UTILITY POLE
- EXIST GUY WIRE

ABBREVIATIONS

- W V. - WATER VALVE
- CB - CATCH BASIN
- CI - CAST IRON
- C & G - CURB & GUTTER
- CONC - CONCRETE
- CULV - CULVERT
- DW - DRIVEWAY
- FH - FIRE HYDRANT
- HC - HOUSE CONNECTION
- INV - INVERT
- RCP - REINFORCED CONCRETE PIPE
- WS - WATER SERVICE
- GS - GAS SERVICE
- WM - WATER METER
- HP - HIGH PRESSURE GAS LINE
- SW - SIDEWALK
- TC - TERRA COTTA
- VC - VITRIFIED CLAY
- MH - MANHOLE
- G - GAS
- D - STORM SEWER
- LP - LOW PRESSURE GAS LINE
- IP - INTERMEDIATE PRESSURE GAS LINE
- DIP - DUCTILE IRON PIPE
- UP - UTILIZATION PRESSURE GAS LINE

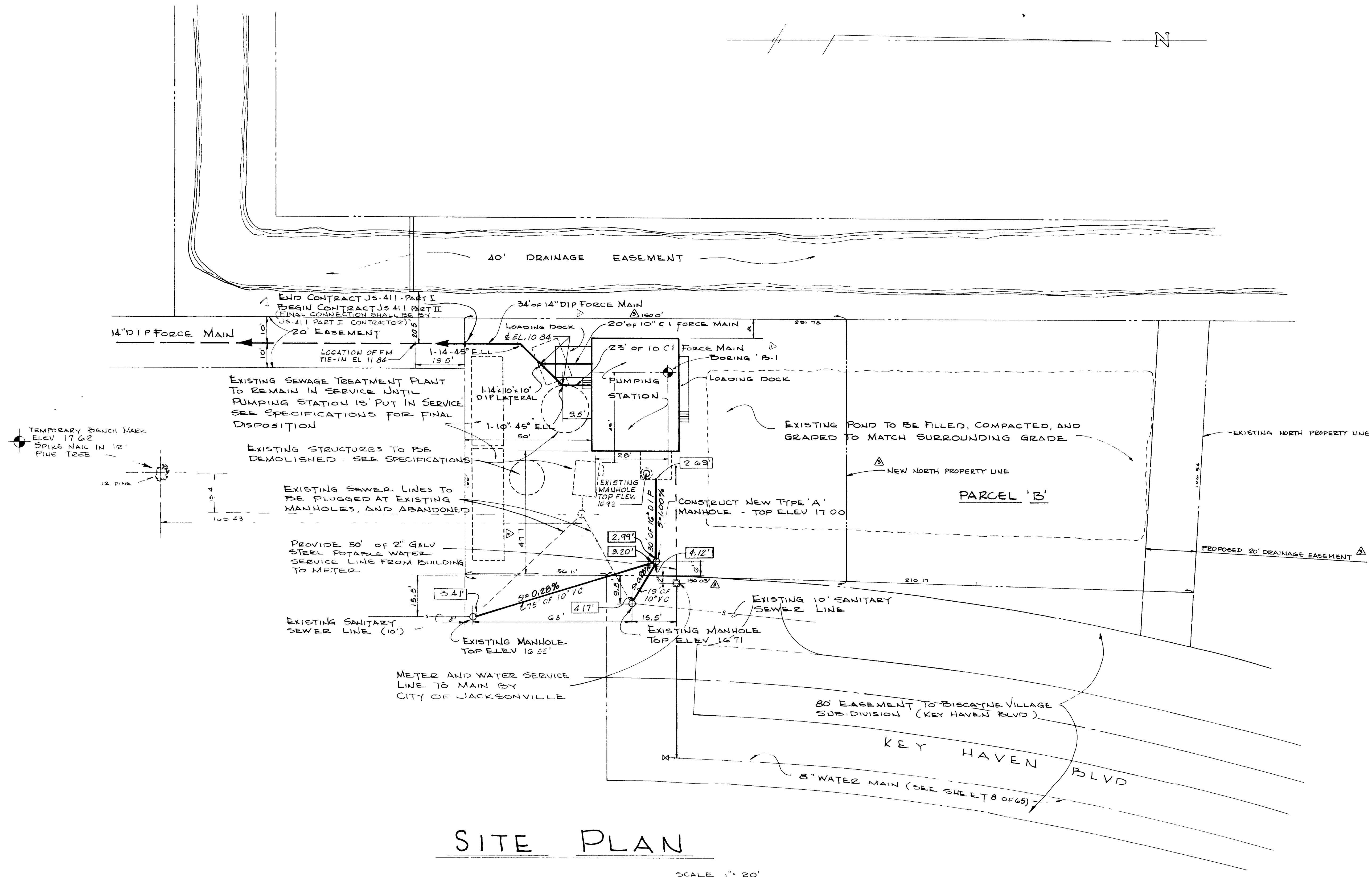
THE CONTRACTOR SHALL NOTIFY THE UTILITY OWNERS LISTED BELOW NOT LESS THAN ONE WEEK PRIOR TO CONSTRUCTION OF SEWERAGE FACILITIES IN THEIR RESPECTIVE AREAS.

- A CITY WATER SERVICES DIVISION C.E. FLYNN JR., 633-3052
- B AMERICAN TELEPHONE & TELEGRAPH COMPANY, D.TOLER, 350-5417
- C FLORIDA GAS COMPANY, J W CARDEN, 354-8391
- D JACKSONVILLE ELECTRIC AUTHORITY:
C D ANDERSEN JR , DISTRIBUTION (UNDER 26KV) 633-4816
C.A.WILKERSON, TRANSMISSION (OVER 26KV) 633-4990
- E SOUTHERN BELL TELEPHONE & TELEGRAPH COMPANY:
EDWARD E ROULS, 721-5133

12004

AS BUILT
DEC 1981

										SUBMITTED BY <i>James Waitz</i> REG ENGR FLA NO 1694 DATE 1-15-74 WAITZ & FRYE CONSULTING ENGINEERS INC										APPROVED BY _____ REG ENGR FLA NO _____ DATE _____ WATER AND SEWER DIVISION CITY OF JACKSONVILLE FLORIDA										CITY OF JACKSONVILLE, FLORIDA										WAITZ & FRYE CONSULTING ENGINEERS, INC.										LEGEND AND ABBREVIATIONS									
										APPROVAL RECOMMENDED BY <i>James Waitz</i> REG ENGR FLA NO 9663 DATE 7-25-74 SVERDRUP & PARCEL AND ASSOCIATES INC										AUTHORIZED BY <i>James Waitz</i> REG ENGR FLA NO 4274 DATE 7/25/74 OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE FLORIDA										SEWERAGE IMPROVEMENT PROGRAM SEWAGE PUMPING STATION NORTH DISTRICT PART I										SVERDRUP & PARCEL AND ASSOCIATES, Inc. - GENERAL CONSULTANT																			
UPDATED NAMES & TELEPHONE NUMBERS										BY <i>SW</i> DATE <i>7/25/74</i> S&P DATE <i>7/25/74</i> PW DATE _____																				DETAILED BY <i>ASH</i> SCALE <i>NONE</i> DATE _____										CONTR NO <i>JS-41.1</i> PROJ NO _____ SHEET NO <i>5</i> OF <i>65</i>																			
REVISIONS										SUBMITTAL										APPROVAL																																							



SITE PLAN

SCALE 1" = 20'

12005

AS BUILT
DEC, 1981



NO	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
1	REVISED TO REFLECT CHANGES CAUSED BY PARCEL 'B' PROPERTY EXCHANGE W/ WORTH END CO, INC - ORD. NO. 79-241-109	JWM	W&F	7-28-80	GFC	7/28	JWH	7/10-8
2	ADDED DIMENSION & TEMP BENCH MARK	JWM	W&F	4-17-79				
3	ADDED PILING LOCATION B-1 & PILING	JWM	W&F	7-14-78				
REVISIONS								
SUBMITTAL			APPROVAL					

SUBMITTED BY *Sumner Waitz*
REG ENGR FLA NO 1634 DATE 7-15-74
WAITZ & FRYE CONSULTING ENGINEERS, INC.
APPROVAL
RECOMMENDED BY _____ DATE _____
REG ENGR FLA NO 2 DATE 1-2-74
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY _____
REG ENGR FLA NO _____ DATE _____
WATER AND SEWER DIVISION
AUTHORIZED BY _____
REG ENGR FLA NO 1 DATE 1-2-74
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.

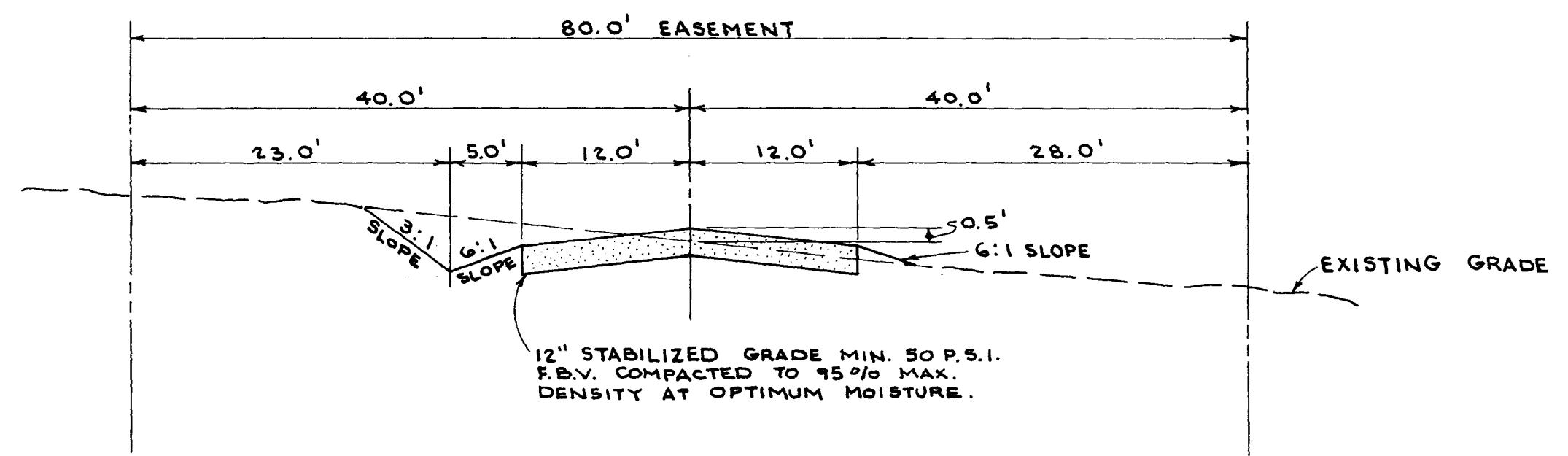
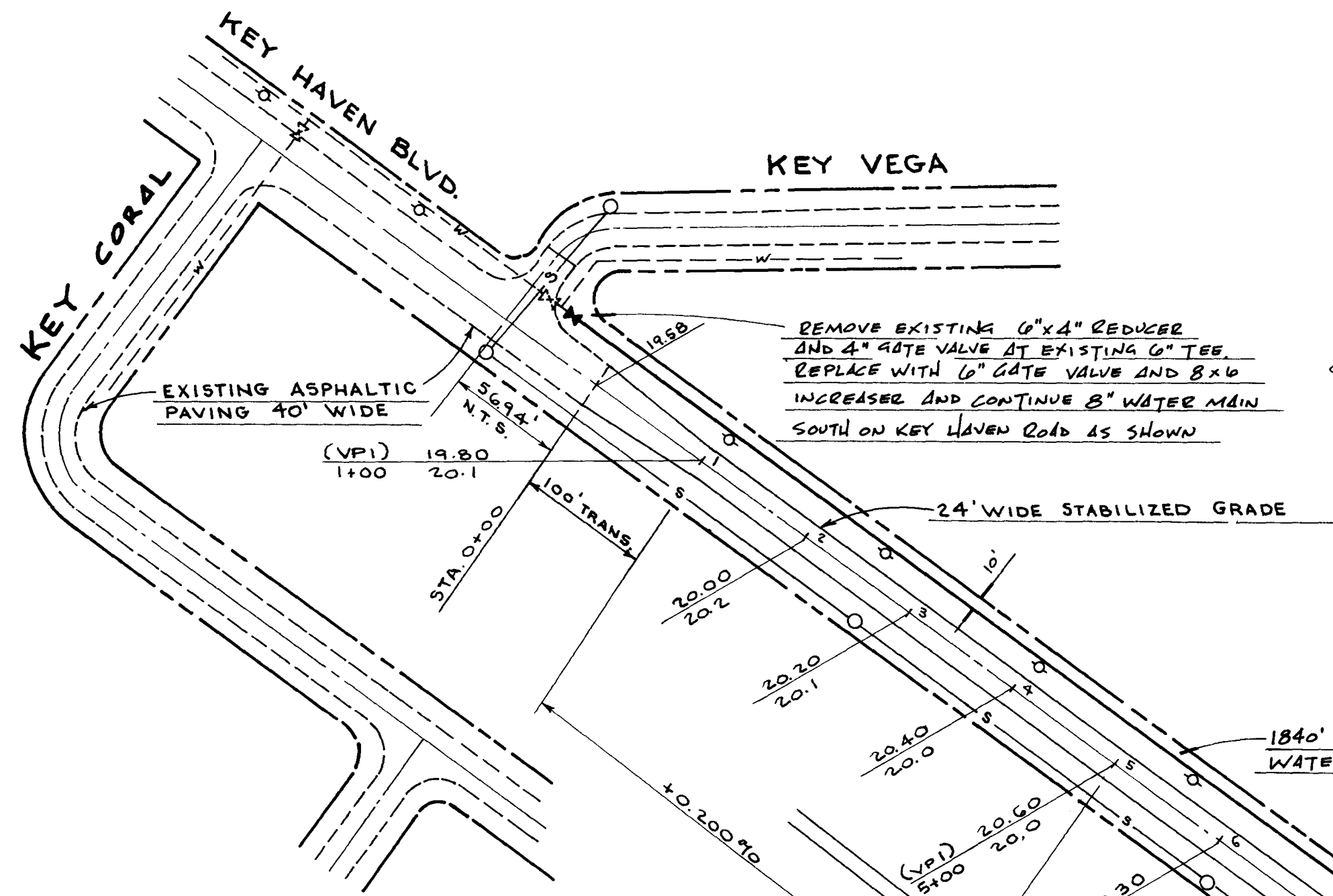
SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT

DETAILED BY JWM SCALE _____ DATE _____
CHECKED BY SW

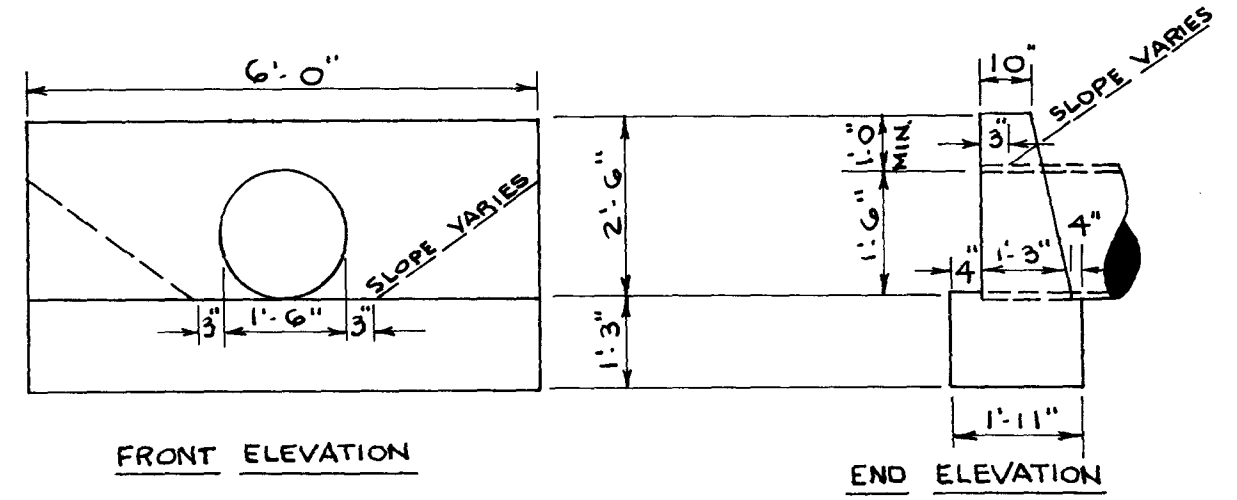
BISCAYNE VILLAGE PUMPING STATION
SITE PLAN

CONTR NO JS-41.1 PROJ NO _____ SHEET NO 6 OF 65

N 1" = 100'

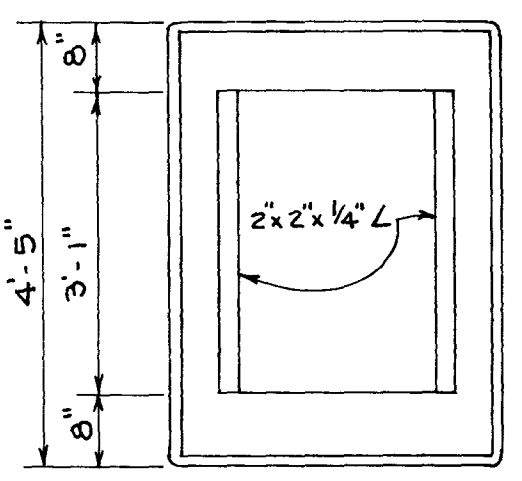
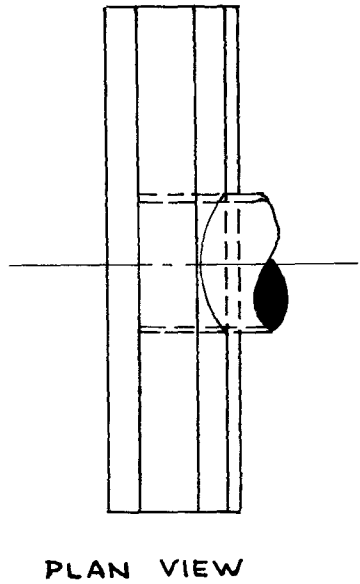


TYPICAL CROSS SECTION
SCALE 1" = 10' HORIZONTAL
1" = 5' VERTICAL

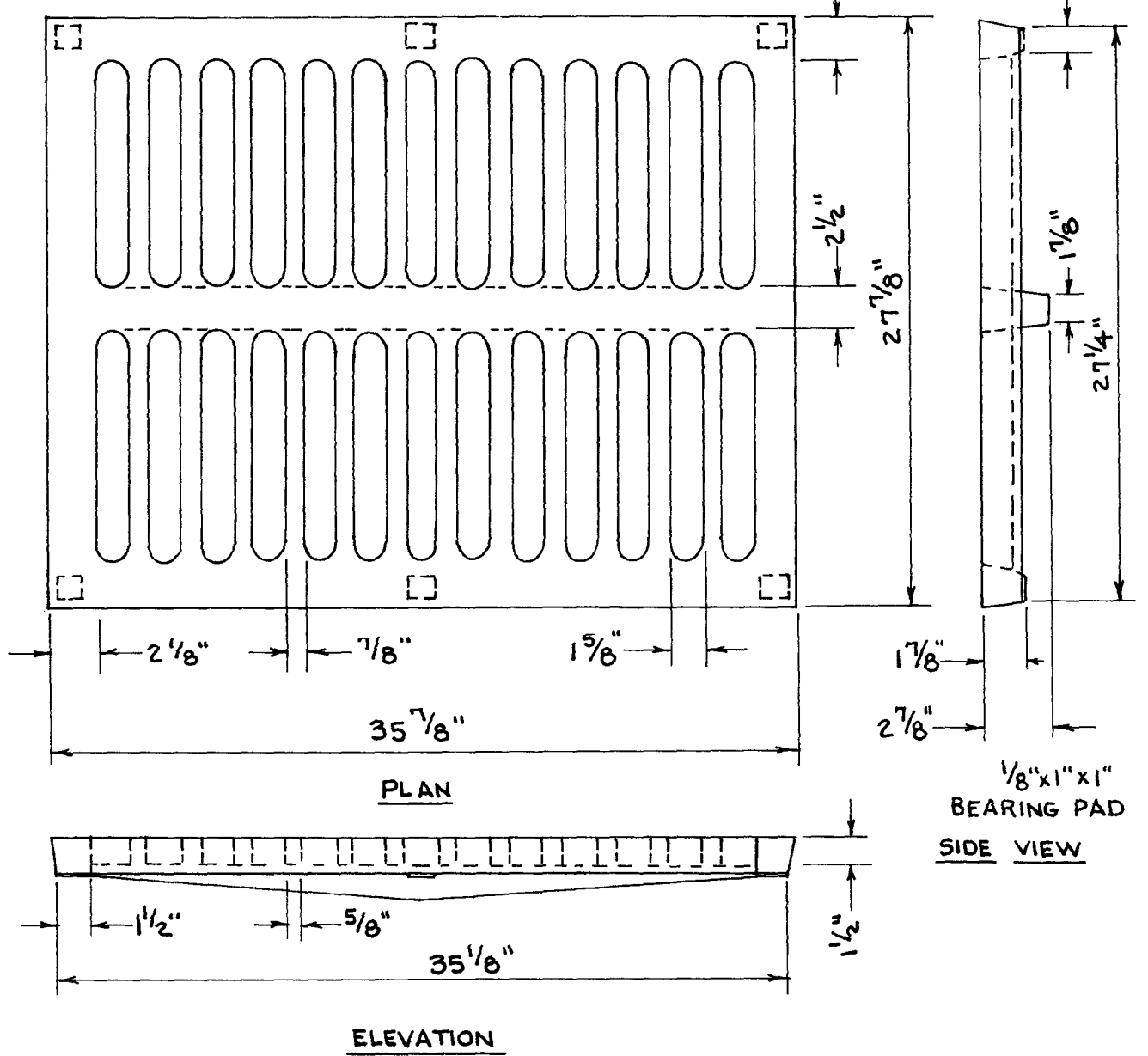
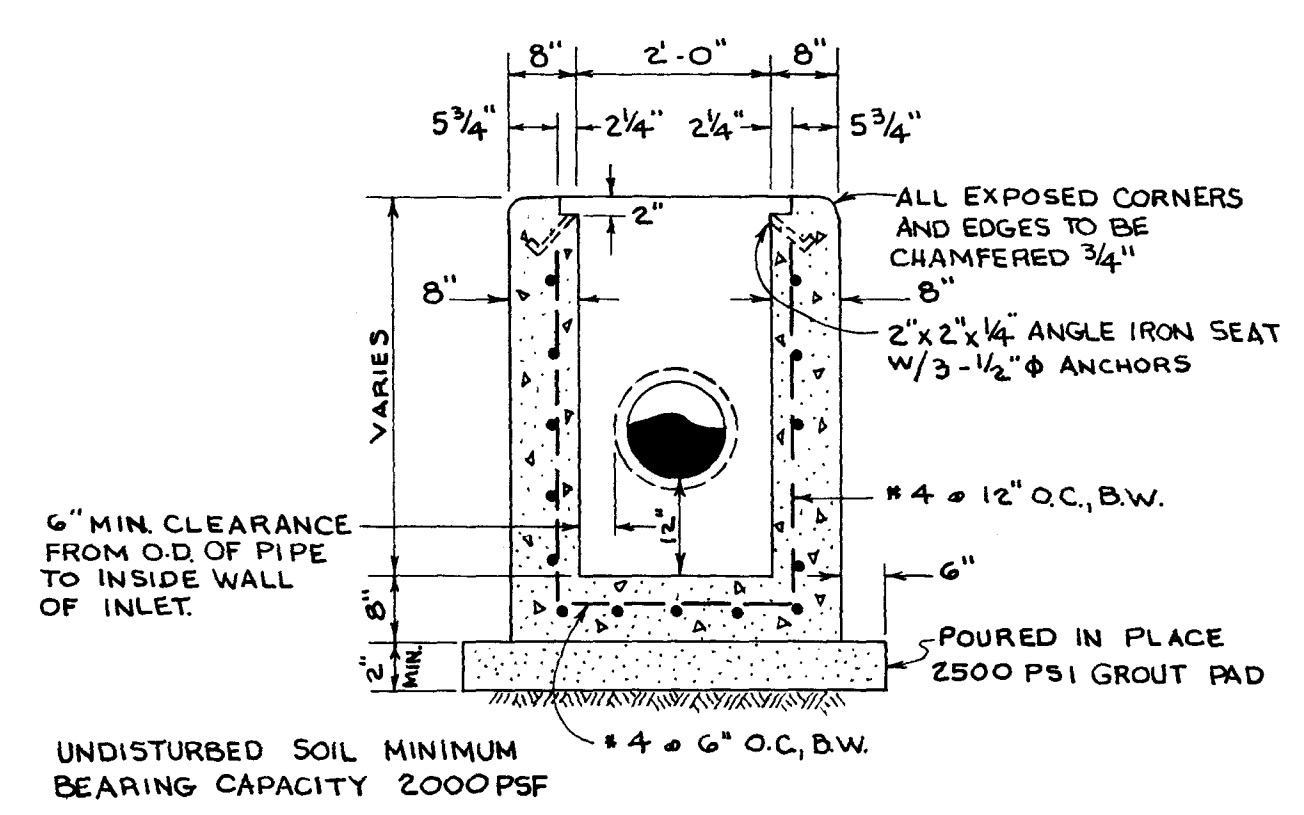


NOTE:
CHAMFER ALL EXPOSED EDGES 3/4"
PROVIDE GOOD FOUNDATION UNDER PIPES,
USING CONCRETE, IF NATURAL CONDITIONS
ARE VERY BAD, WHERE THE RODS ARE
REQUIRED, THE COST OF THE SAME SHALL
BE INCLUDED IN THE UNIT PRICE BID FOR
CONCRETE, CLASS "A".

STRAIGHT ENDWALL



PRECAST IN ACCORDANCE
WITH LATEST EDITIONS
OF ASTM C16 AND C418



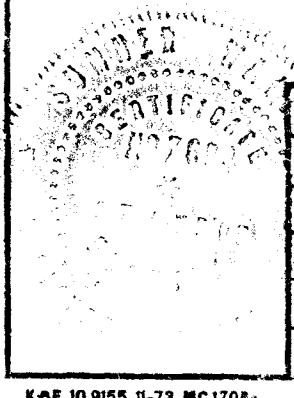
STORM SEWER - TYPE "C" INLET

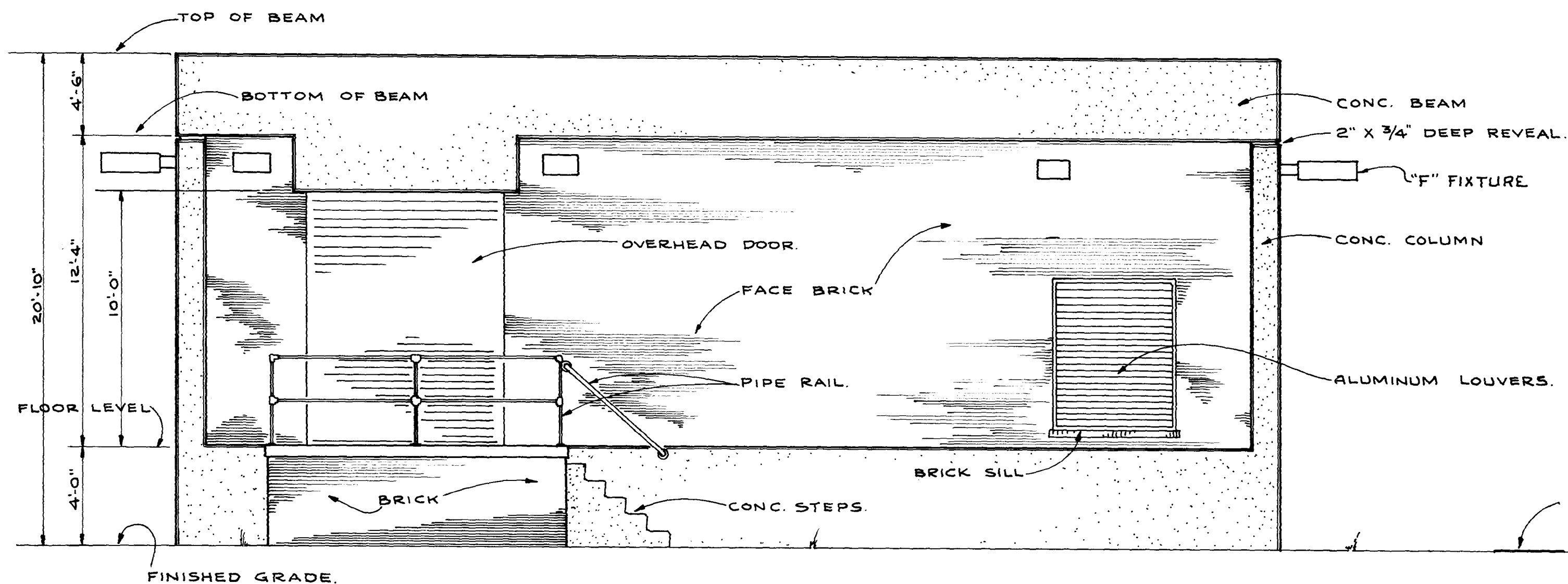
STORM SEWER INLET GRATE

12007 B

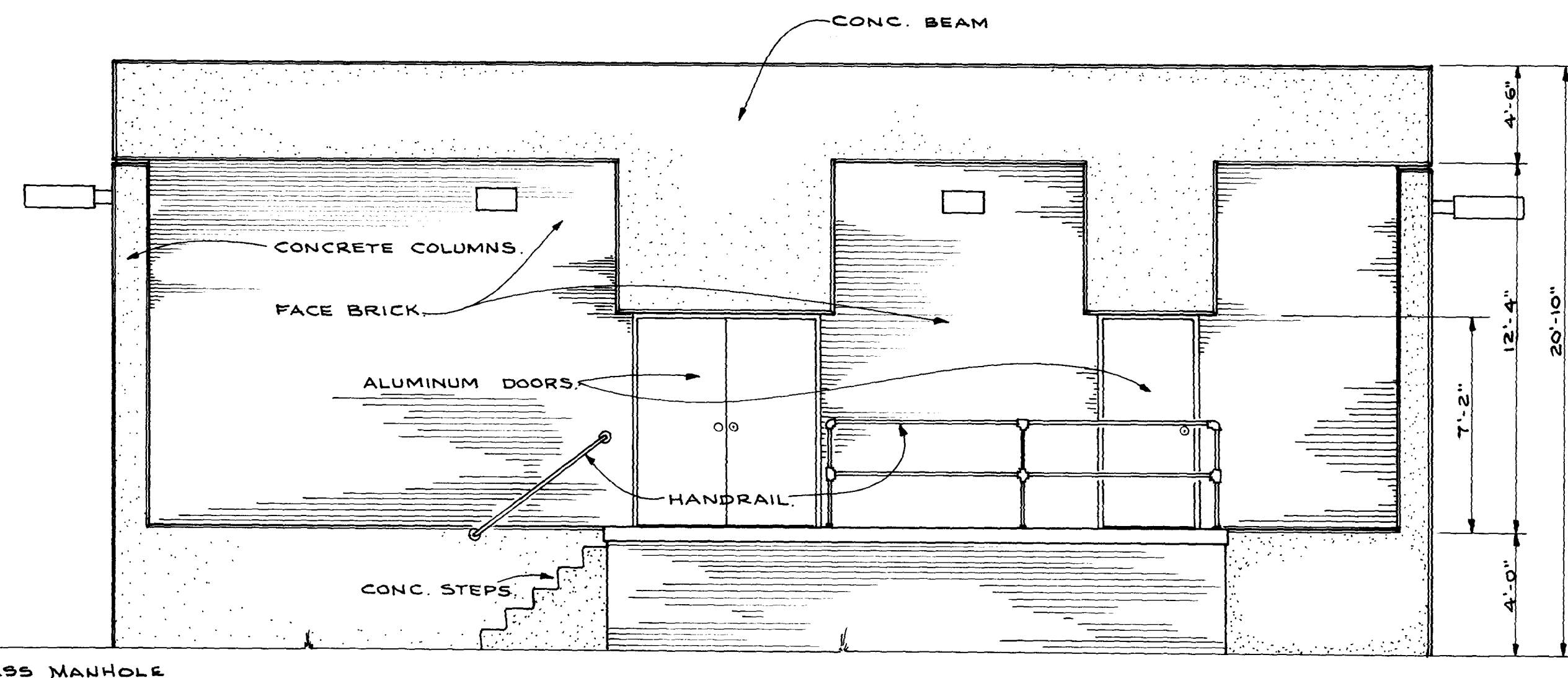
AS BUILT
DEC. 1981

CITY OF JACKSONVILLE, FLORIDA										WAITZ & FRYE CONSULTING ENGINEERS, INC.										BISCAYNE VILLAGE PUMPING STATION ENTRANCE ROAD									
SEWERAGE IMPROVEMENT PROGRAM										SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT										CONTR. NO. JS-41.1									
SEWAGE PUMPING STATION NORTH DISTRICT PART I										PAGE NO. _____										SHEET NO. 8 OF 65									
SUBMITTED BY: <i>Sumner West</i>										RECEIVED BY: <i>H.E.F.</i>										DATE: 7/21/84									
REG. ENGR. FLA. NO. 7624 DATE 1-18-74										REG. ENGR. FLA. NO. 9663 DATE 7-25-74										DATE: 7/21/84									
APPROVED BY: <i>H.E.F.</i>										APPROVED BY: <i>H.E.F.</i>										DATE: 7/21/84									
OFFICE OF DIRECTOR OF PUBLIC WORKS										OFFICE OF DIRECTOR OF PUBLIC WORKS										CITY OF JACKSONVILLE, FLORIDA									

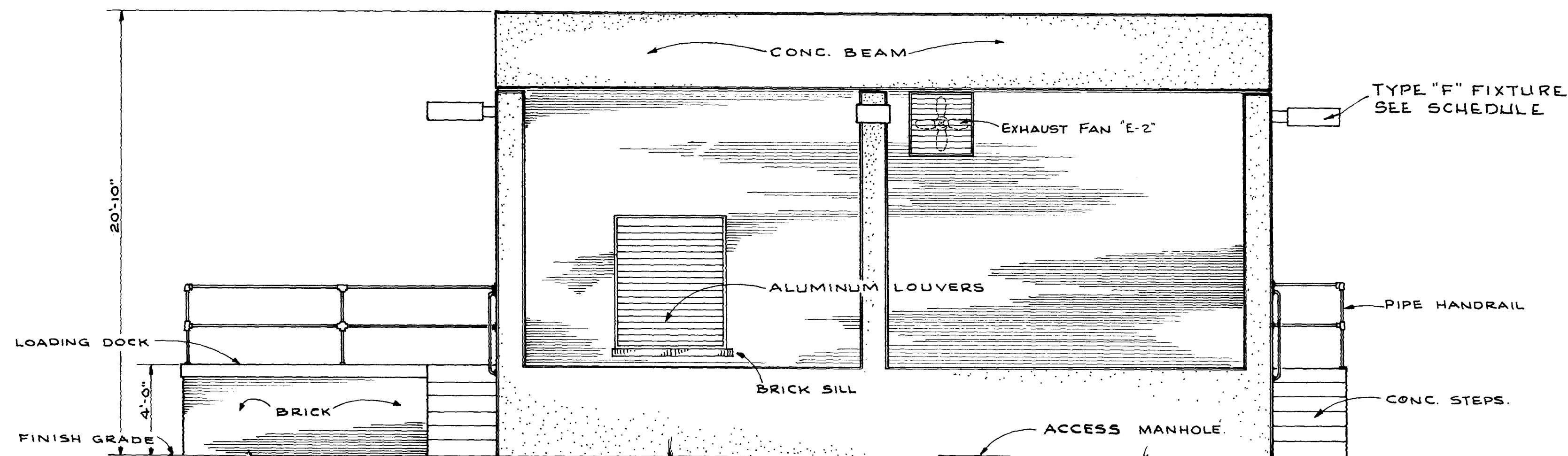




SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



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



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

12008

AS BUILT
DEC. 1981

BISCAYNE VILLAGE PUMPING STATION
EXTERIOR ELEVATIONS

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.

SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT

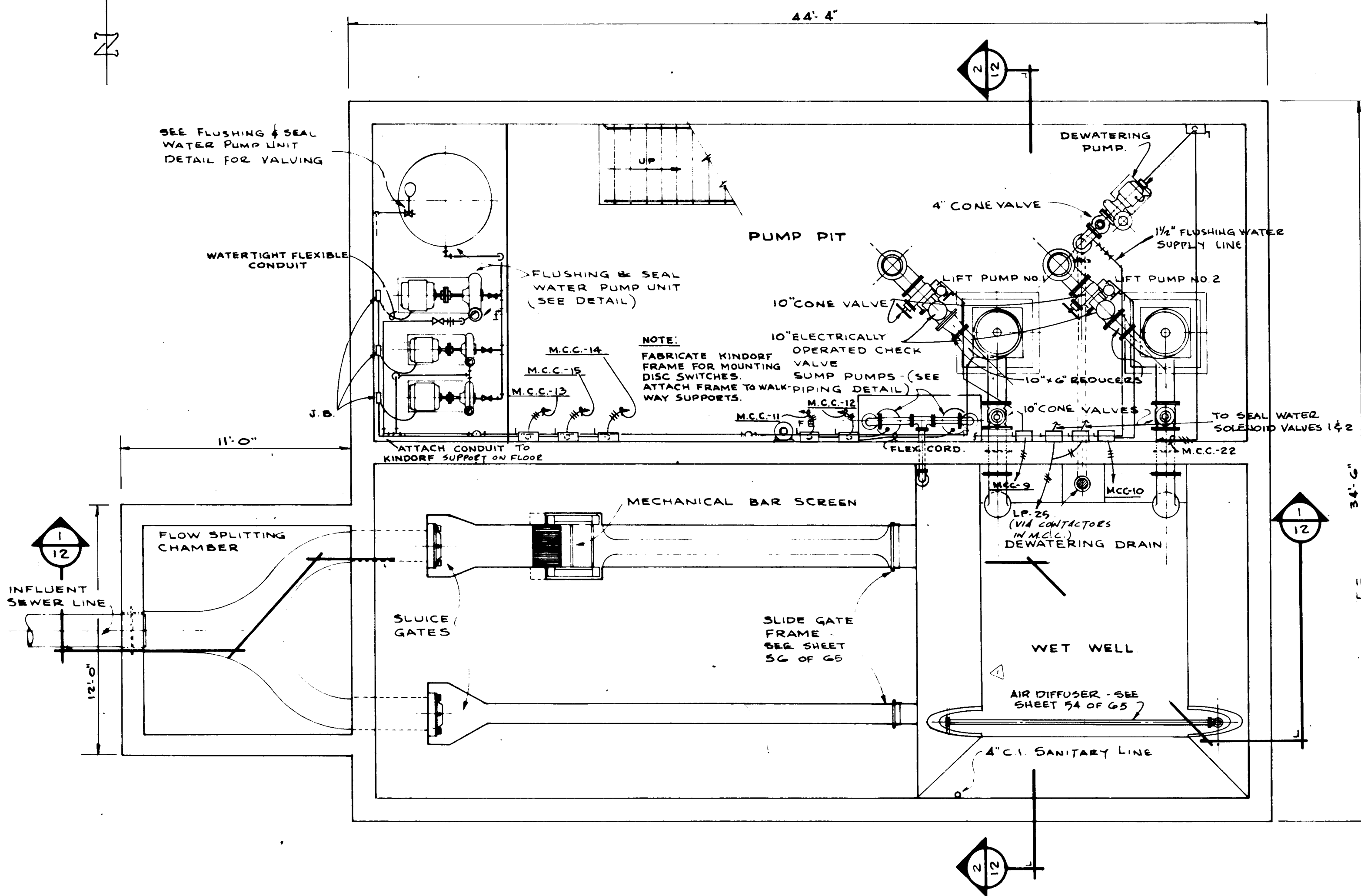
DETAILED BY: J.W.M. SCALE: DATE:
CHECKED BY: S.W.

CONTROL NO. JS-41.1 PROJECT NO. SHEET NO. 9 OF 65

NO.	DESCRIPTION	BY	DATE	CHK	DATE	CHK	DATE
1	REVISIONS						
2	SUBMITTAL						
3	APPROVAL						

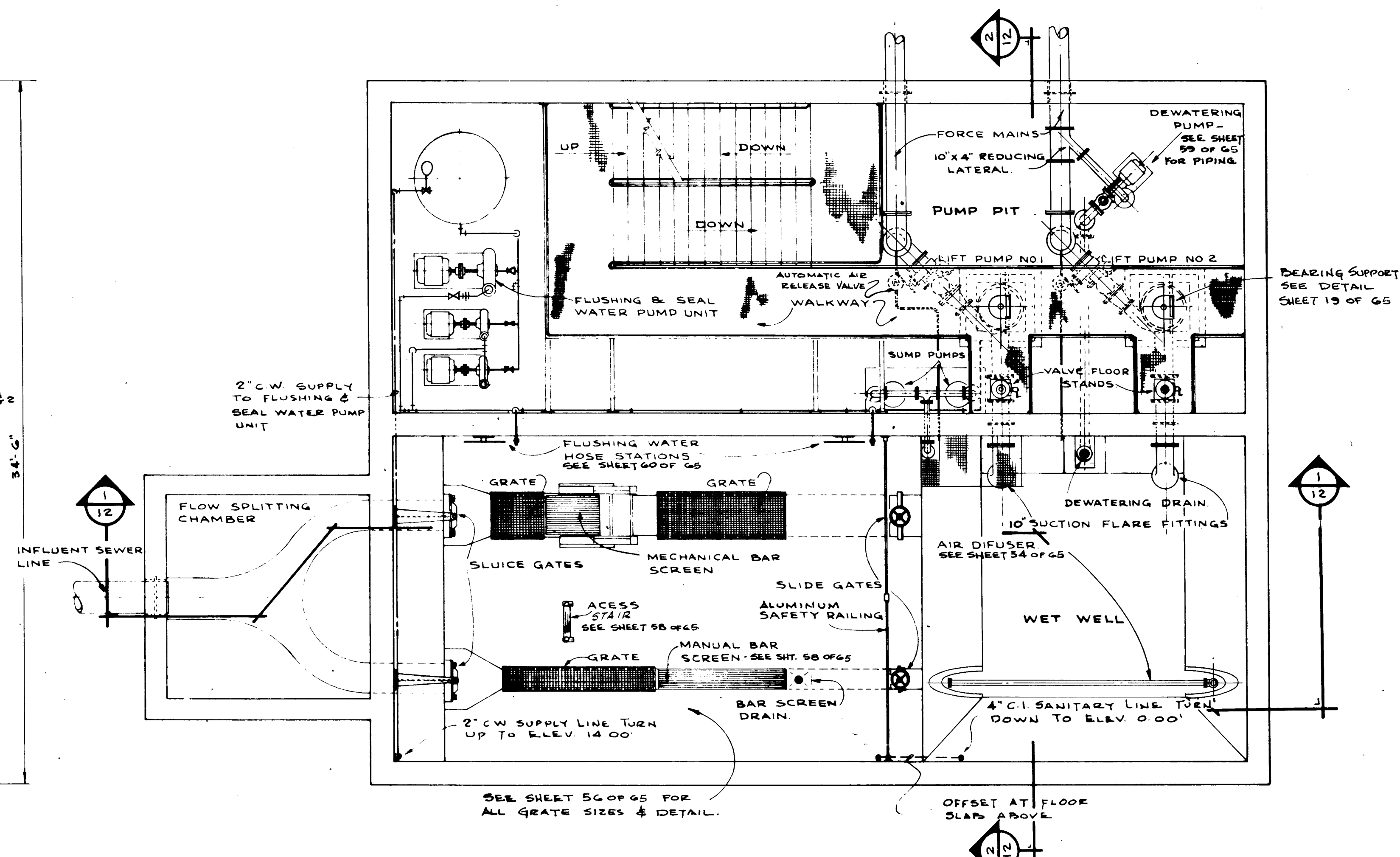
SUBMITTED BY: *Sumner Waitz*
REG. ENGR. FLA. NO. 7624 DATE 7-15-74
WAITZ & FRYE CONSULTING ENGINEERS, INC.
APPROVED BY: *John S. Light*
RECOMMENDED BY: *John S. Light*
REG. ENGR. FLA. NO. 9063 DATE 7-25-74
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: *John S. Light*
REG. ENGR. FLA. NO. 4270 DATE 7-15-74
CITY OF JACKSONVILLE, FLORIDA



MECHANICAL FLOOR PLAN @ ELEV. 0.00'

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



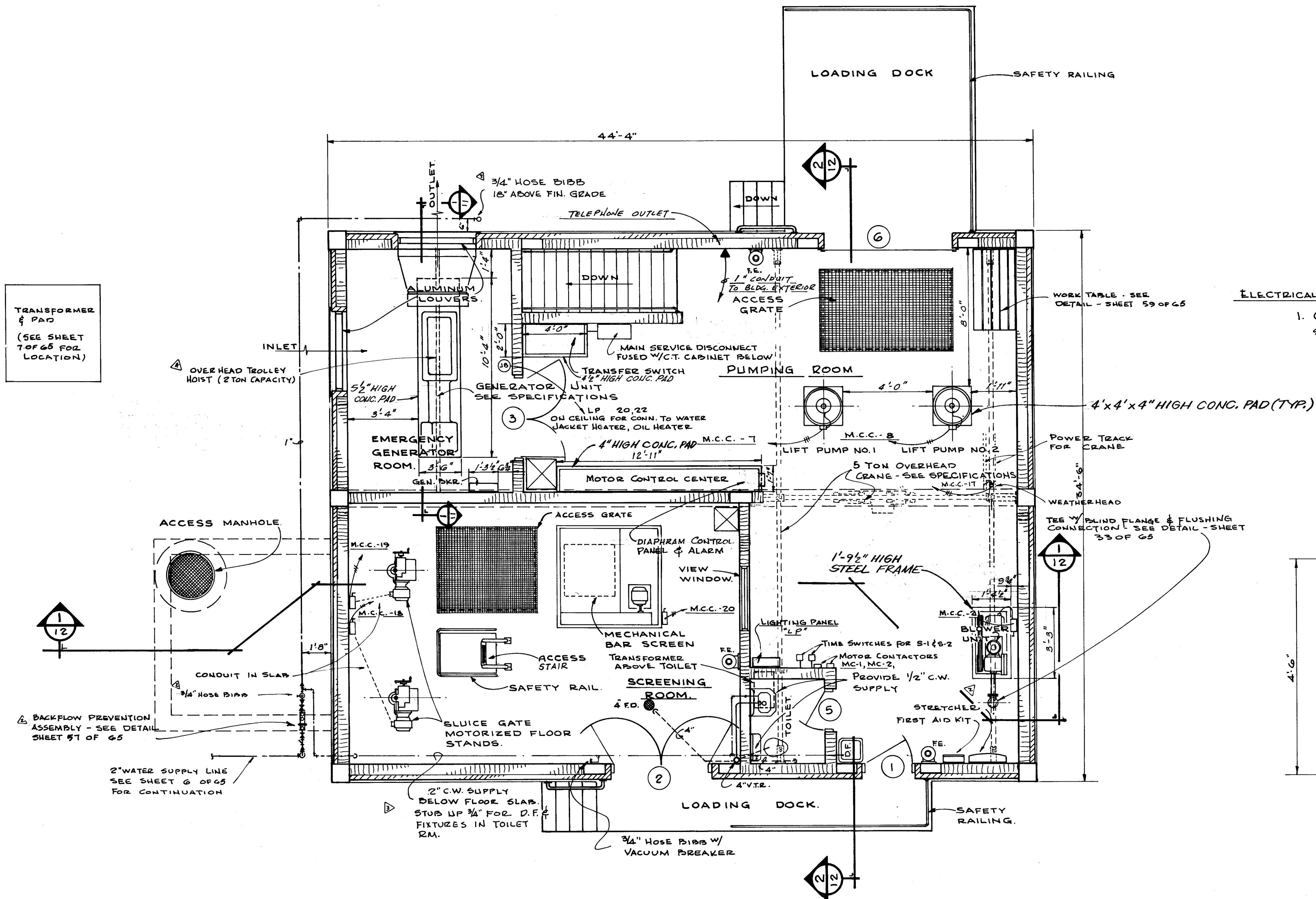
MECHANICAL FLOOR PLAN @ ELEV. 12.58'

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

SUBMITTED BY <i>James Waitz</i>										APPROVED BY _____									
REG. ENGR. FLA. NO. 7694 DATE 7-15-74										REG. ENGR. FLA. NO. _____ DATE _____									
WAITZ & FRYE CONSULTING ENGINEERS, INC.										WATER AND SEWER DIVISION									
RELOCATED AIR DIFFUSER IN WET WELL										AUTHORIZED BY _____									
BY <i>J.W.M.</i> DATE <i>3-22-79</i> S&P <i>J.H.</i> DATE <i>3-22-79</i>										REG. ENGR. FLA. NO. <i>76270</i> DATE <i>7-25-74</i>									
APPROVAL										OFFICE OF DIRECTOR OF PUBLIC WORKS									
REVISIONS										CITY OF JACKSONVILLE, FLORIDA									
SUBMITTAL										SEWERAGE IMPROVEMENT PROGRAM									
APPROVAL										SEWAGE PUMPING STATION									
										NORTH DISTRICT PART I									
										WAITZ & FRYE CONSULTING ENGINEERS, INC.									
										SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT									
										BISCAYNE VILLAGE PUMPING STATION									
										MECHANICAL FLOOR PLANS									
										CONTR. NO. JS-41.1									
										PROJ. NO. _____									
										SHEET NO. 10 OF 65									

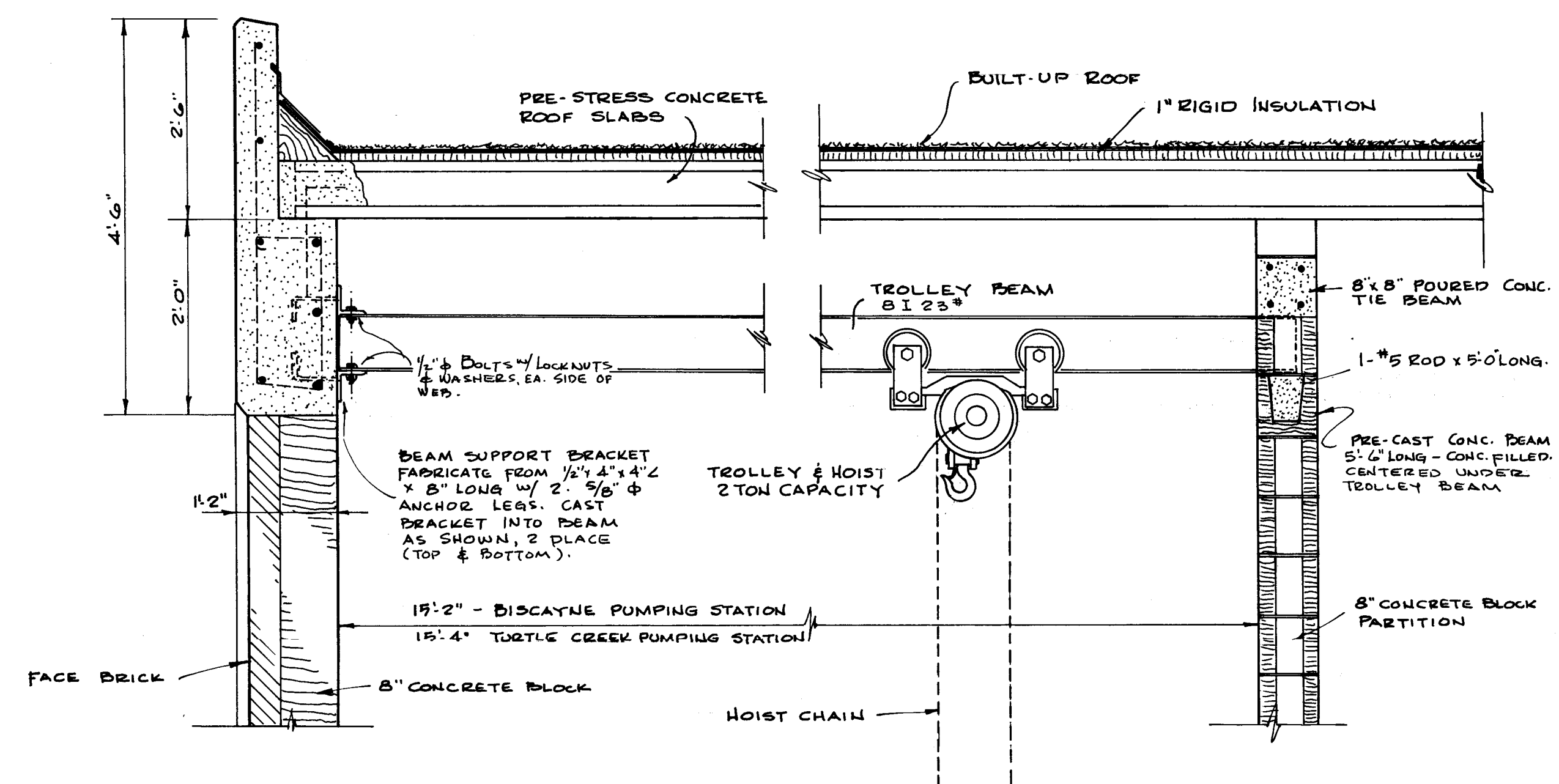
12009

AS BUILT
DEC. 1981



ELECTRICAL NOTE:

1. CONDUIT AND WIRE FOR SENSING DEVICES, FLOAT SWITCHES, LIMIT SWITCHES AND OTHER CONTROL CIRCUITS ARE NOT HEREIN SHOWN. REFER TO SHEET 26 OF 65 FOR DIAGRAMS.



MECHANICAL PLAN @ ELEVATION 21.0'
SCALE: 1/4" = 1'-0"

SECTION 11

12010

AS BUILT
DEC. 1981

NO.	DESCRIPTION	BY	FIRM	DATE	SUB	DATE	PK	DATE
1	REVISED 2" WATER SUPPLY ROUTING CONNECTION AFTER BACKFLOW PREVENTER	J.W.M.	W&F	7-17-74	GFC	9/80	J.H.H.	4/1/77
2	ADDED NOTE, OVERHEAD TROLLEY HOIST, & SECT. 11	J.W.M.	W&F	4-17-74	GFC	4-17-74	J.H.H.	4-17-74
3	REVISED WATER SUPPLY TO PROVIDE FOR FLUSHING WATER SUPPLY	J.W.M.	W&F	7-17-74	GFC	3-22-79	J.H.H.	3-22-79
4	REMOVED WET WELL ACCESS DOORS	J.W.M.	W&F	7-17-74	GFC	3-22-79	J.H.H.	3-22-79
5	RELOCATED BLOWER UNIT & HOSE DIAB SYSTEM	J.W.M.	W&F	7-17-74	GFC	3-22-79	J.H.H.	3-22-79

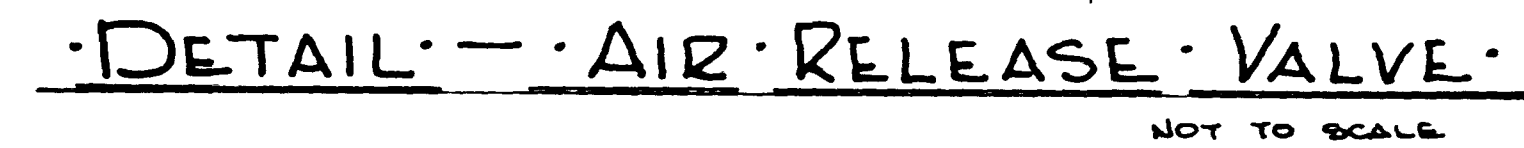
DESIGNED BY: <i>James Waitz</i>	APPROVED BY: <i>[Signature]</i>
REG. ENGR. FLA. NO. 7694 DATE 7-15-74	REG. ENGR. FLA. NO. 7694 DATE 7-15-74
WAITZ & FRYE CONSULTING ENGINEERS, INC.	WAITZ & FRYE CONSULTING ENGINEERS, INC.
DESIGNED BY: <i>[Signature]</i>	APPROVED BY: <i>[Signature]</i>
REG. ENGR. FLA. NO. 9663 DATE 7-25-74	REG. ENGR. FLA. NO. 9663 DATE 7-25-74
SVERDRUP & PARCEL AND ASSOCIATES, INC.	SVERDRUP & PARCEL AND ASSOCIATES, INC.

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.
SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT
DETAILED BY: *J.W.M.* SCALE: _____ DATE: _____
CHECKED BY: *S.W.*

BISCAYNE VILLAGE PUMPING STATION
MECHANICAL FLOOR PLAN

CONTR. NO. **JS-41.1** PROJ. NO. _____ SHEET NO. **11** OF **65**



SCALE 1/4" = 10'



12011

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

AS BUILT

DEC 1981

DEC 1981
DISCAYNE VILLAGE PUMPING STATION
MECHANICAL CROSS SECTION

REMOVED WET WELL ACCESS DOORS REMOVED AIR OPERATED LINE LOCATION ABOVE DRAINAGE PUMP SUCTION LINE & CEILING RAIL BY JWM WMS DATE 9/27/90 9/27/90 9/27/90										SUBMITTED BY <i>Shuman Watts</i> REG. ENGR. FLA. NO. <i>7616</i> DATE <i>7-15-79</i> WATZ & FRYE CONSULTING ENGINEERS, INC. APPROVAL RECOMMENDED BY <i>Shuman Watts</i> REG. ENGR. FLA. NO. <i>9663</i> DATE <i>7-25-79</i> SEVERINO & PANCEL AND ASSOCIATES, INC.										APPROVED BY _____ REG. ENGR. FLA. NO. _____ DATE _____ NATURAL RESOURCES DIVISION AUTHORIZED BY <i>JWM</i> DATE <i>9/27/90</i> REG. ENGR. FLA. NO. <i>9270</i> DATE <i>7/19/91</i> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA									
NO _____ DESCRIPTION _____										BY _____ WMS DATE _____										9/27/90 9/27/90									
REVISIONS _____										SUBMITTAL _____										APPROVAL _____									

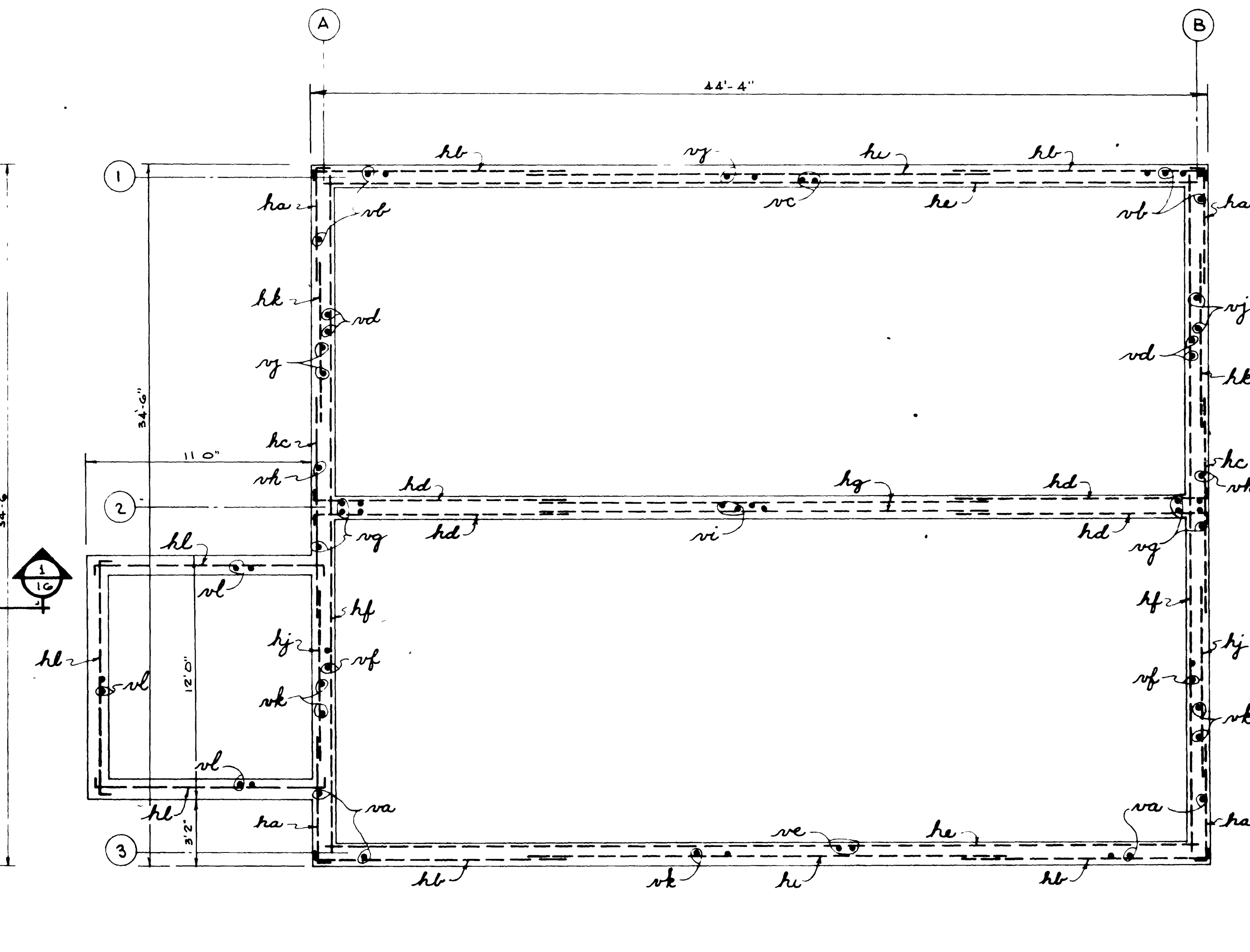
SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

SVERDRUP & PARCEL AND ASSOCIATES, INC. — GENERAL CONSULTANT

DETAILED BY <u>J W M.</u>	SCALE _____	DATE _____
CHECKED BY <u>SW</u>		

CONTR NO JS-41.1

PROJ. NO. _____ SHEET NO. 12 OF 65

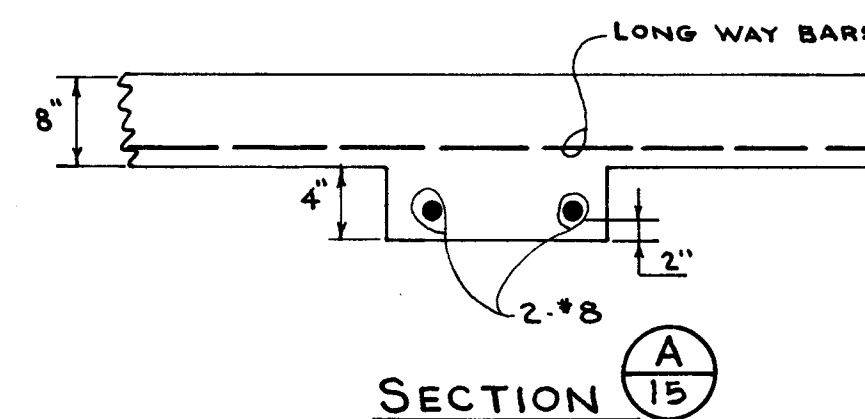
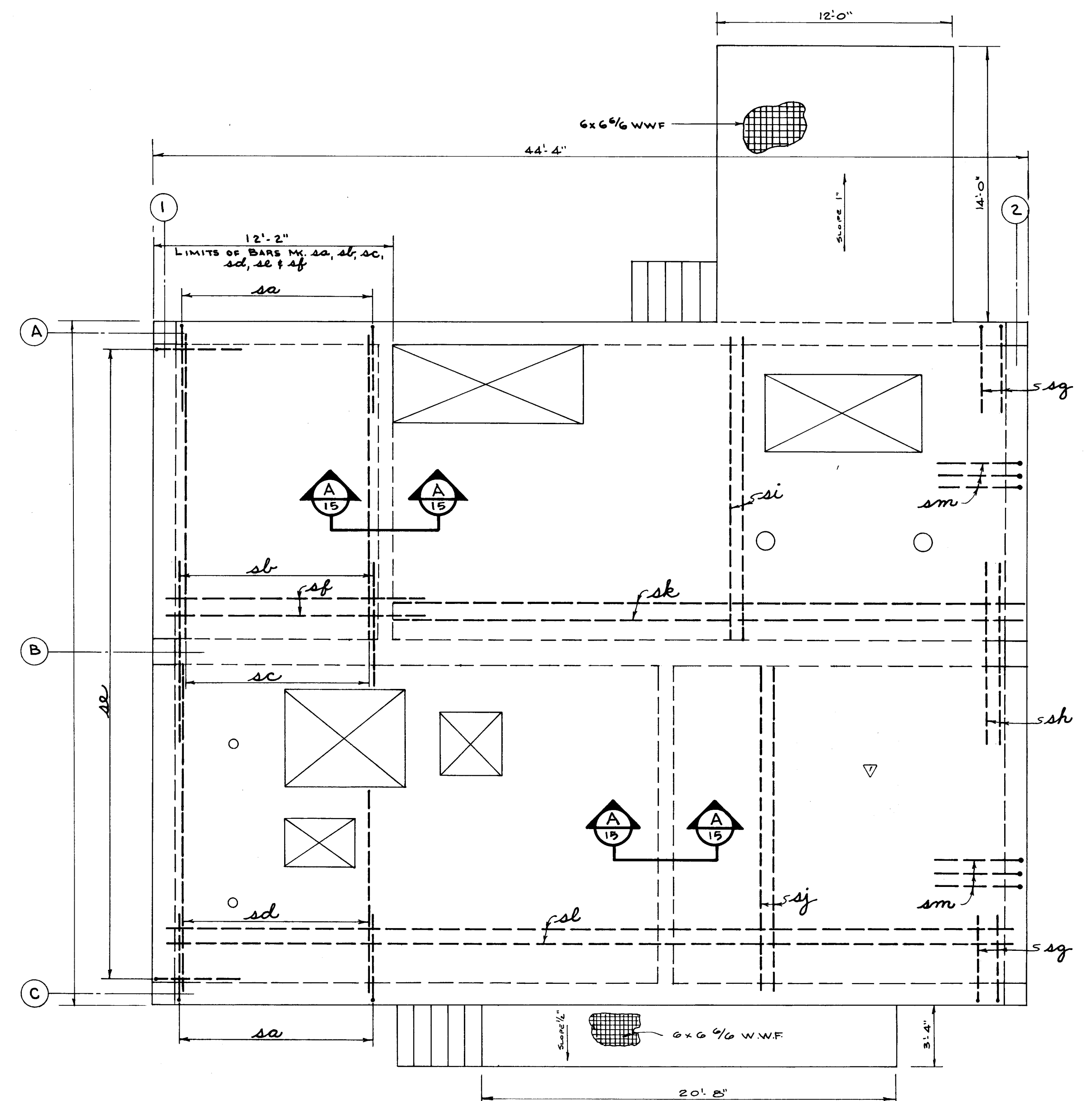
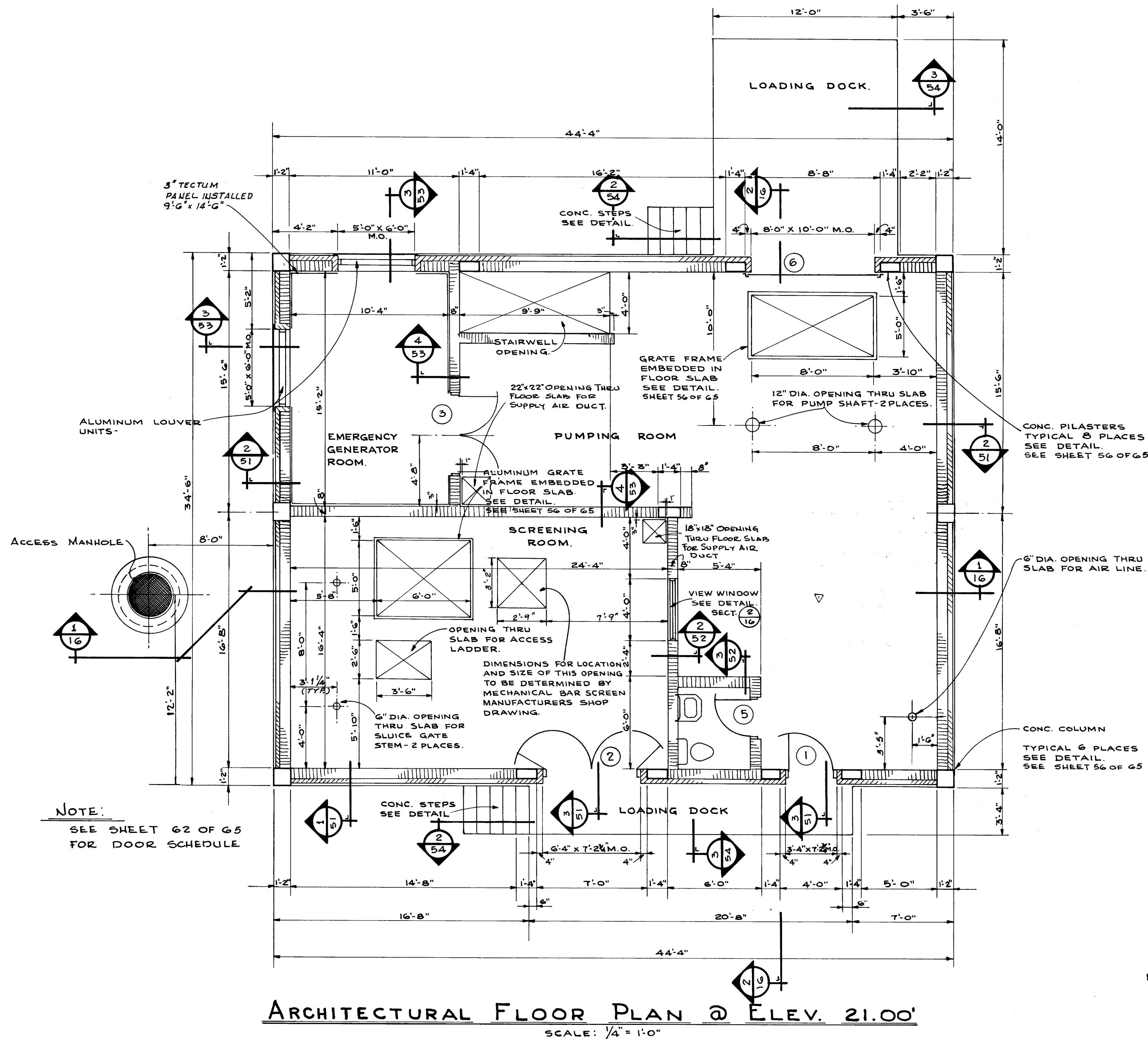


WALL REINFORCING PLAN

SCALE $1/4" = 1' 0"$

AS BUILT
DEC. 1981

6-22 10-0000 0-20 0001700-



12014

AS BUILT
DEC. 1981

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.

SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT

DETAILED BY: J.W.M.
CHECKED BY: H.R.F.

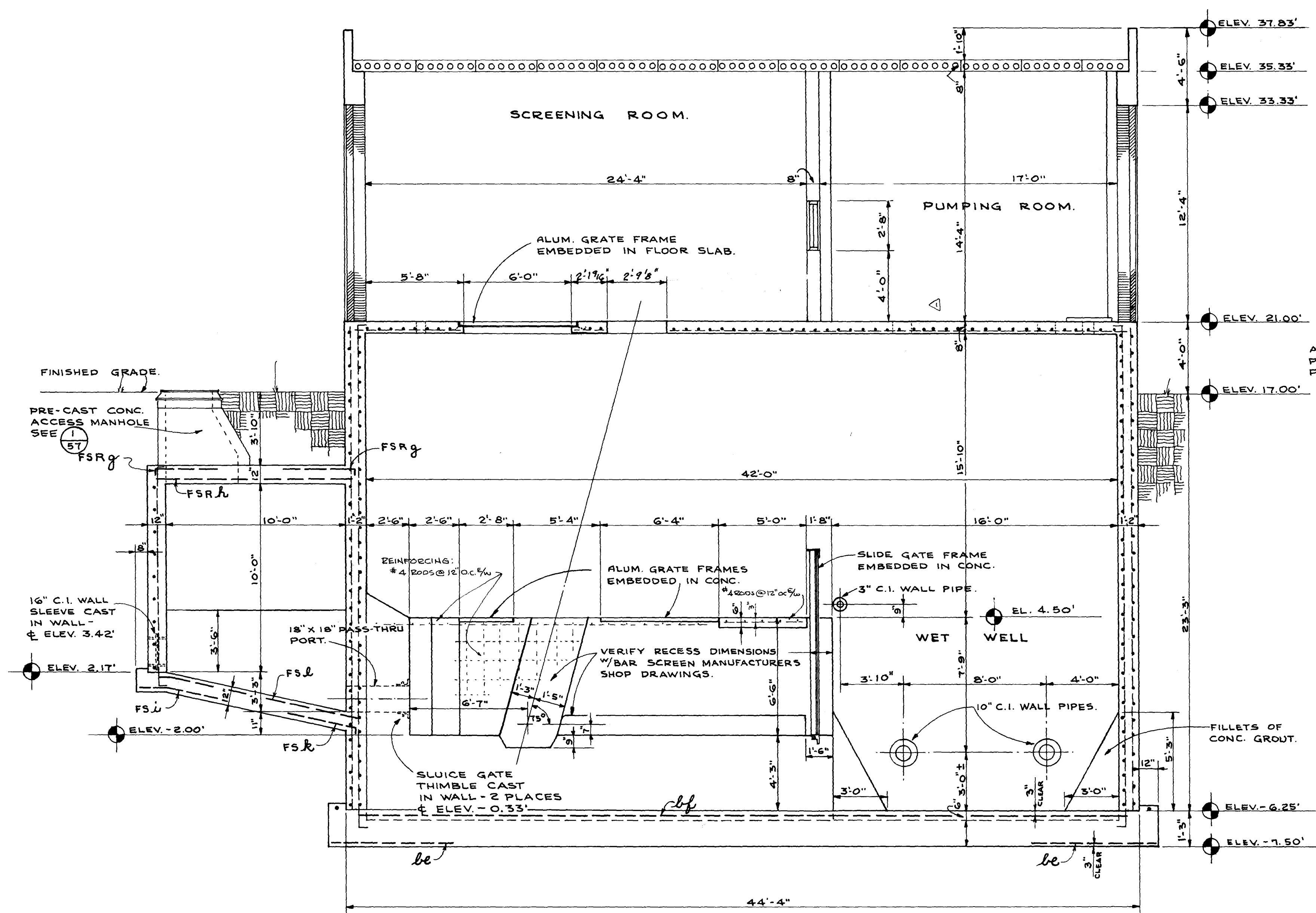
BISCAYNE VILLAGE PUMPING STATION
STRUCTURAL FLOOR PLAN

CONTR. NO. JS-41.1

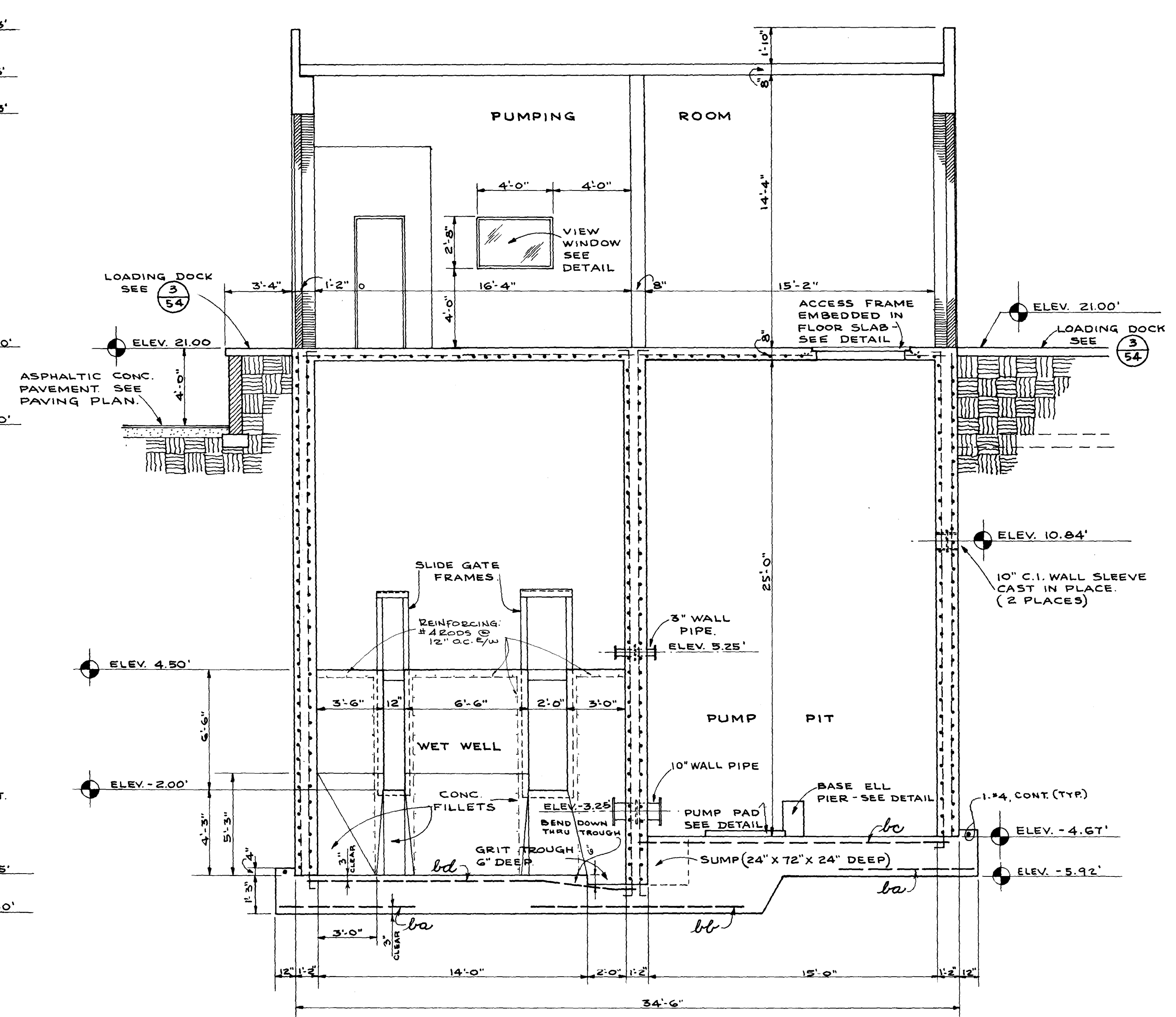
PROJ. NO.

SHEET NO. 15 OF 65

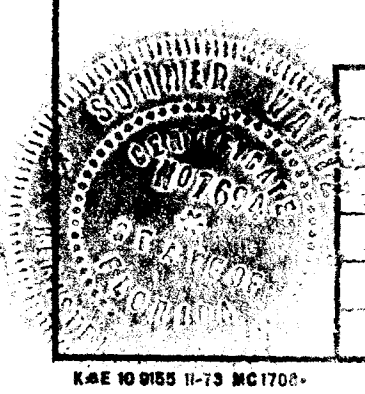
SUBMITTED BY: <i>James Waitz</i>		APPROVED BY: <i>[Signature]</i>	
REG. ENGR. FLA. NO. 7694 DATE 7-15-74		REG. ENGR. FLA. NO. 4372 DATE 7-25-74	
WAITZ & FRYE CONSULTING ENGINEERS, INC.		OFFICE OF DIRECTOR OF PUBLIC WORKS	
APPROVAL RECOMMENDED BY: <i>[Signature]</i>		CITY OF JACKSONVILLE, FLORIDA	
REG. ENGR. FLA. NO. 9463 DATE 7-25-74			
SVERDRUP & PARCEL AND ASSOCIATES, INC.			
NO.	DESCRIPTION	BY	FIRM
1	REMOVED WET WELL ACCESS DOORS	J.W.M.	W&F
2		S&P	DATE
3		PW	DATE
4		DATE	
5		DATE	
6		DATE	
7		DATE	
8		DATE	
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STRUCTURAL CROSS-SECTION (1/16)
SCALE: 1/4" = 1'-0"

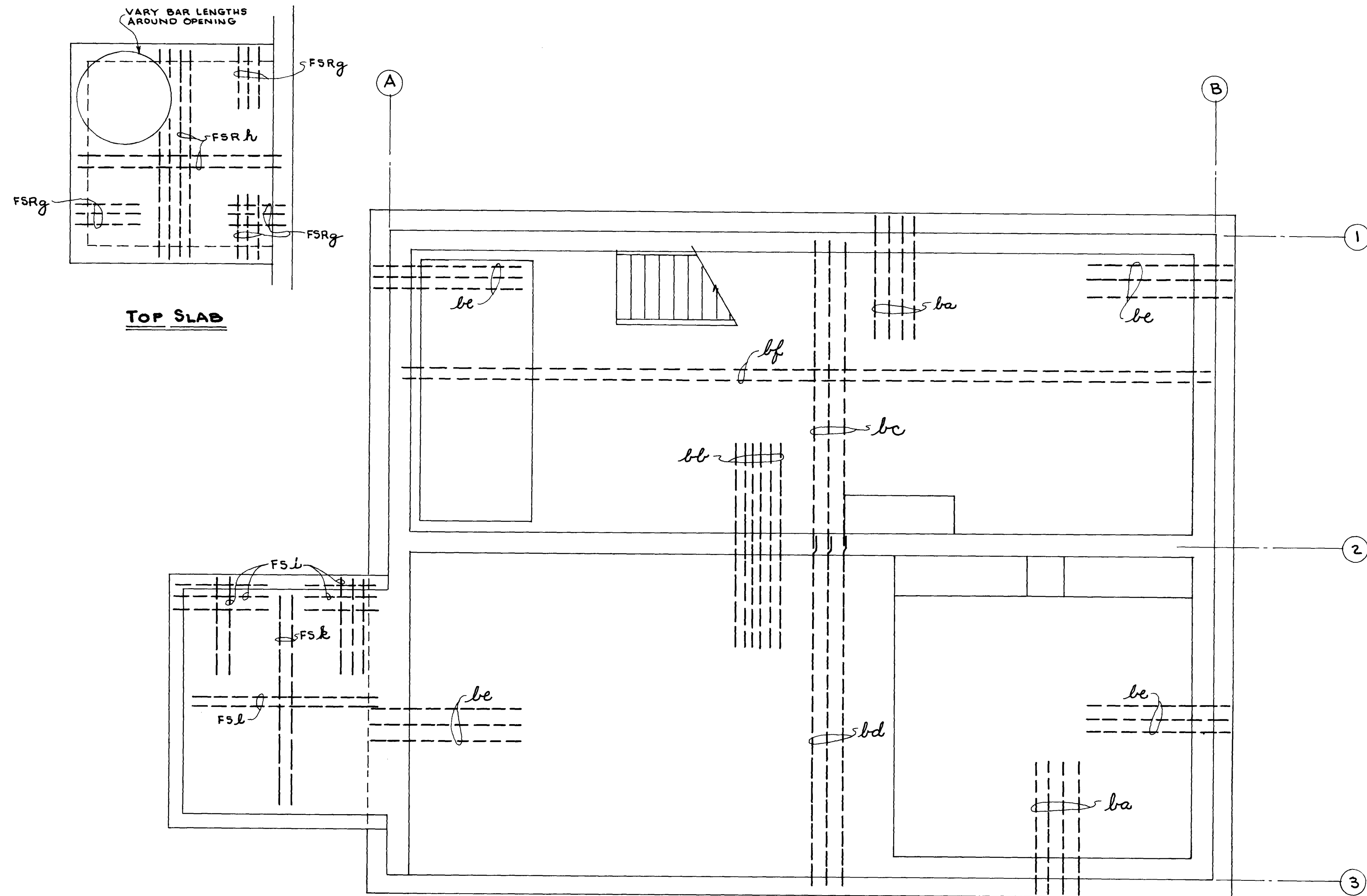


STRUCTURAL CROSS-SECTION (2/16)
SCALE: 1/4" = 1'-0"



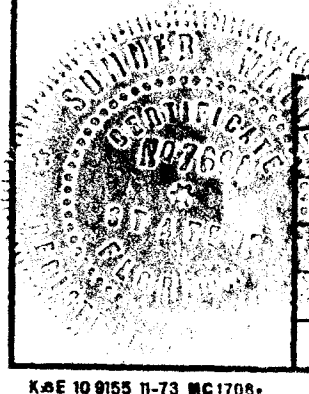
SUBMITTED BY: <i>James Wait</i> REG. ENGR. FLA. NO. 7694 DATE 7-15-74 WAITZ & FRYE CONSULTING ENGINEERS, INC.				APPROVED BY: <i>[Signature]</i> REG. ENGR. FLA. NO. 9663 DATE 7-25-74 SVERDRUP & PARCEL AND ASSOCIATES, INC.				CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM SEWAGE PUMPING STATION NORTH DISTRICT PART I				WAITZ & FRYE CONSULTING ENGINEERS, INC. SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT DETAILED BY: J.W.M. SCALE: DATE: CHECKED BY: H.R.F.				BISCAYNE VILLAGE PUMPING STATION STRUCTURAL CROSS SECTIONS CONTR. NO. JS-41.1 PROJ. NO. SHEET NO. 16 OF 65			
NO. DESCRIPTION BY FIRM DATE SSP DATE PW DATE				REMOVED WET WELL ACCESS DOOR J.W.M. 3-2-79 10/11/79 3-22-79															
REVISIONS				SUBMITTAL				APPROVAL											

12015 N
AS BUILT
DEC. 1981



BOTTOM SLAB REINFORCING						
MARK	SIZE	SPACING	LENGTH	TYPE	LOCATION	REMARKS
ba	8	7	6-11	STR.	BOTTOM FACE BASE SLAB UNDER EXTERIOR WALLS ① & ③.	
bb	10	5 1/2	11-2	STR.	BOTTOM FACE UNDER WALL ②.	
bc	10	7	16-0	STR.	TOP FACE - SHORT WAY 15'-0" SPAN ① TO ②.	EXCEPT THRU SUMP. USE SAME RODS & SPACING BUT VARY LENGTHS.
bd	10	7	17-0	STR.	TOP FACE - SHORT WAY 16'-0" SPAN ③ TO ③.	6" INTO WALLS - BEND DOWN UNDER TROUGH.
be	8	12	6-11	STR.	BOTTOM FACE UNDER EXTERIOR WALLS ④ & ⑤.	
bf	8	7 1/2	43-0	STR.	TOP FACE - LONG WAY BOTH SLABS.	6" INTO WALLS - BEND DOWN UNDER TROUGH.
FSRg	4	13	4-3	0.3 4.0	TOP FLOW SPLITTING CHAMBER - ROOF SLAB.	1-90° HOOK - 3" LONG INTO WALLS.
FSRh	4	9	11-0	STR.	BOTTOM FLOW SPLITTING CHAMBER ROOF SLAB - BOTH WAYS.	6" LAP OVER WALLS.
FSL	5	10	4-11	STR.	BOTTOM FLOW SPLITTING CHAMBER BASE SLAB UNDER EXTERIOR WALLS.	
FRj	5	10	4-3	0.3 4.0	BOTTOM FLOW SPLITTING CHAMBER BASE SLAB INTO WALL ④.	
FSL	6	9 1/2	11-0	STR.	TOP FLOW SPLITTING CHAMBER BASE SLAB PARALLEL WITH WALL ④.	
FSL	6	9 1/2	11-6	STR.	TOP FLOW SPLITTING CHAMBER BASE SLAB PERPENDICULAR TO WALL ④.	

STRUCTURAL BASE FLOOR SLAB @ ELEV. 0.00'
SCALE: 1/4" = 1'-0"



SUBMITTED BY: <i>William Waitz</i>		APPROVED BY: <i>[Signature]</i>	
REG. ENGR. FLA. NO. 7674 DATE 7-15-74		REG. ENGR. FLA. NO. 9663 DATE 7-25-74	
WAITZ & FRYE CONSULTING ENGINEERS, INC.		SVERDRUP & PARCEL AND ASSOCIATES, INC.	
APPROVAL RECOMMENDED BY: <i>[Signature]</i>		OFFICE OF DIRECTOR OF PUBLIC WORKS	
CITY OF JACKSONVILLE, FLORIDA		CITY OF JACKSONVILLE, FLORIDA	
NO.	DESCRIPTION	BY	DATE
1	REVISIONS	SUBMITTAL	APPROVAL

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.	
SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT	
DETAILED BY: <i>ASH</i>	SCALE: _____ DATE: _____
CHECKED BY: <i>H.R.F.</i>	

12016

N

AS BUILT
DEC. 1981

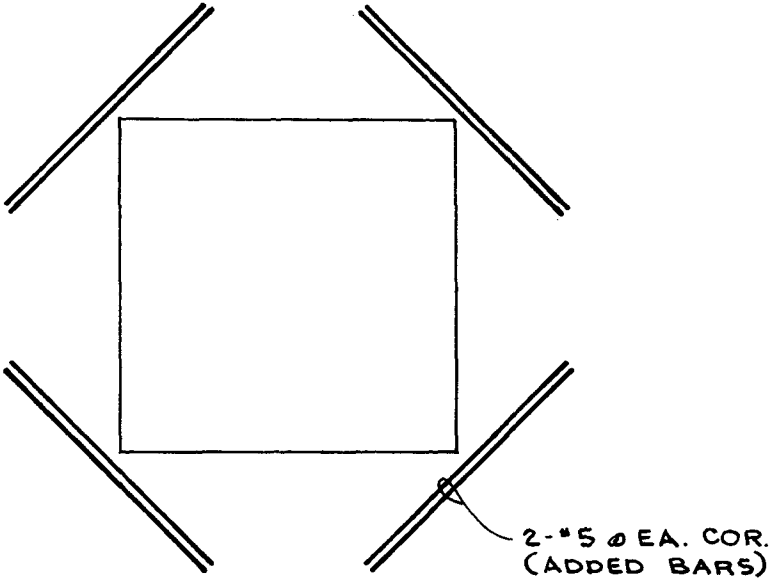
BISCAYNE VILLAGE PUMPING STATION
STRUCTURAL BASE SLAB REINFORCING PLAN.

CONTR. NO. JS-41.1 PROJ. NO. _____ SHEET NO. 17 OF 65

SLAB REINFORCING

MARK	SIZE	SPACING	LENGTH	TYPE	LOCATION	REMARKS
sa	6	8 1/2	4-9	0.3' 4.6	TOP SLAB OVER WALLS A & C (WITHIN LIMITS - SEE PLAN)	1-3"-90° HOOK.
sb	7	6	9-2	STR.	TOP SLAB - CENTER OVER WALL B.	
sc	7	8	15-4	STR.	BOTTOM SLAB - SHORT WAY AS SHOWN.	6" LAP OVER WALL A.
sd	7	8	16-6	STR.	BOTTOM SLAB - SHORT WAY AS SHOWN.	6" LAP OVER WALL C.
se	5	10	4-9	0.3' 4.6	TOP SLAB OVER WALL D.	1-3"-90° HOOK.
sf	5	7	13-2	13-2	BOTTOM SLAB - LONG WAY - 6" LAP OVER WALL D.	32 DIA. LAP WITH BARS MK. sk.
sg	6	12	4-9	0.3' 4.6	TOP SLAB OVER WALLS A & C AS SHOWN.	1-3"-90° HOOK.
sh	7	8 1/2	9-2	STR.	TOP SLAB - CENTER OVER WALL B AS SHOWN.	
si	6	8	15-4	STR.	BOTTOM SLAB - S.W. BETWEEN WALLS 1 & 2.	6" LAP OVER WALL A.
sj	6	8	16-6	STR.	BOTTOM SLAB - S.W. BETWEEN WALLS 1 & 2.	6" LAP OVER WALL C.
sk	5	9 1/2"	31-6	STR.	BOTTOM SLAB - LONG WAY.	LAP WITH BARS MK. sf - 32 DIA.
sl	5	9 1/2"	43-0	STR.	BOTTOM SLAB - LONG WAY.	6" LAP OVER WALLS 1 & 2.
sm	5	15	4-9	0.3' 4.6	TOP SLAB OVER WALL E	1-3" 90° HOOK.

NOTE - CONTINUE SAME BARS & SPACING WHERE OPENINGS DO NOT PERMIT FULL LENGTH SCHEDULED.



OPENING DETAIL

(TYPICAL @ ALL OPENINGS THRU FLOOR SLABS)

WALL REINFORCING

MARK	SIZE	SPACING	LENGTH	TYPE	LOCATION	REMARKS
ha	10	8	7-0	1.0' 6.0	OUTSIDE CORNERS IN WALLS A & B.	1-90° HOOK - 12" LONG.
hb	10	8	12-6	1.0' 11.6	OUTSIDE CORNERS IN WALLS 1 & 2.	DO
hc	10	9	10-11	STR.	OUTSIDE WALLS A & B @ WALL 2.	
hd	10	9	12-6	1.0' 11.6	INSIDE CORNERS 2A & 2B IN WALL 2.	1-90° HOOK - 12" LONG.
he	8	10	43-0	STR.	INSIDE FACE WALLS 1 & 3.	
hf	8	9 1/2	33-2	STR.	INSIDE FACE WALLS A & B.	
hg	6	12	23-0	STR.	BOTH FACES WALL 2 CENTER ON MID-SPAN.	32 DIA. LAP WITH BARS MK. hd.
hi	4	11	21-8	STR.	OUTSIDE FACES - WALLS 1 & 3 CENTER ON MID-SPAN.	32 DIA. LAP WITH BARS MK. hb.
hj	4	11	8-8	STR.	OUTSIDE FACES - WALLS A & B @ ON SPANS 2 TO 3.	32 DIA. LAP WITH BARS MK. ha & hc.
hk	4	11	7-8	STR.	OUTSIDE FACES - WALLS A & B @ ON SPANS 1 TO 2.	32 DIA. LAP WITH BARS MK. ha & hc.
hl	6	15	12-0	0.6' 11.0 10.6	E WALLS IN FLOW SPLITTING CHAMBER.	2-90° HOOKS - 6" LONG.
va	5	10	28-9	27.9 0.6 0.6	VERTICAL CORNERS A3 & B3 WITH BARS MK. ha & hb.	2-90° - 6" HOOKS - 4" INTO TOP SLAB & 6" INTO BOTTOM SLAB.
vb	5	10	26-10	25.10 0.6 0.6	CORNERS A1 & B1 WITH BARS MK. ha & hb.	DO
vc	10	7	26-10	25.10 0.6 0.6	INSIDE FACE WALL 1.	DO
vd	8	9 1/2	26-10	25.10 0.6 0.6	INSIDE FACES WALL A & B BETWEEN WALLS 1 & 2.	DO
ve	10	7	28-9	27.9 0.6 0.6	INSIDE FACE WALL 3.	DO
vf	8	9 1/2	28-9	27.9 0.6 0.6	INSIDE FACES WALLS A & B BETWEEN WALLS 2 & 3.	DO
vg	5	11	28-9	27.9 0.6 0.6	CORNERS A3 & B3 IN WALLS 2 AND A1 & B1 BETWEEN 2 & 3.	DO
vh	5	11	26-10	25.10 0.6 0.6	CORNERS A2 & B2 IN WALLS A & B BETWEEN 1 & 2.	DO
vi	4	9	28-9	27.9 0.6 0.6	SPACERS FOR BARS MK. hg BOTH FACES WALL 2. STOP @ MK. vg BARS.	DO
vj	4	18	25-0	STR.	SPACERS - BARS MK. hi & hk.	
vk	4	18	26-11	STR.	SPACERS - BARS MK. hi & hj.	
vl	4	11	VARIES	VARIES 0.6 0.6	SPACERS - BARS MK. hl IN FLOW SPLITTING CHAMBER.	2-90° - 6" HOOKS INTO TOP & BOTTOM SLAB.

NOTE - REINF. PREFIXED h = HORIZONTAL. v = VERTICAL.

NO.

DESCRIPTION

BY

FIRM

DATE

S&P

DATE

PM

DATE

REVISIONS

SUBMITTAL

APPROVAL

SUBMITTED BY: *Sumner W. Waitz*

REG. ENGR. FLA. NO. *7674* DATE *7-15-74*

WAITZ & FRYE CONSULTING ENGINEERS, INC.

APPROVED BY: *W. H. Sverdrup*

REG. ENGR. FLA. NO. *9663* DATE *7-25-74*

SVERDRUP & PARCEL AND ASSOCIATES, INC.

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM

SEWAGE PUMPING STATION

NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.

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

DETAILED BY: *ASH* SCALE: DATE:

CHECKED BY: *H.R.F.*

12017

AS BUILT

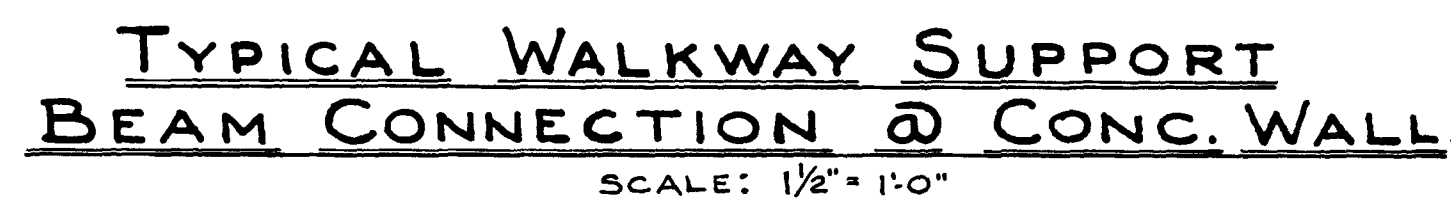
DEC. 1981

BISCAYNE VILLAGE PUMPING STATION

STRUCTURAL REINFORCING SCHEDULE

CONTR. NO. *JS-41.1* PROJ. NO. SHEET NO. *18* OF *65*

K&E 10 8155 11-73 MC1708



CONTR. NO. **JS-41.1** PROJ. NO. _____ SHEET NO. **19** OF **65**

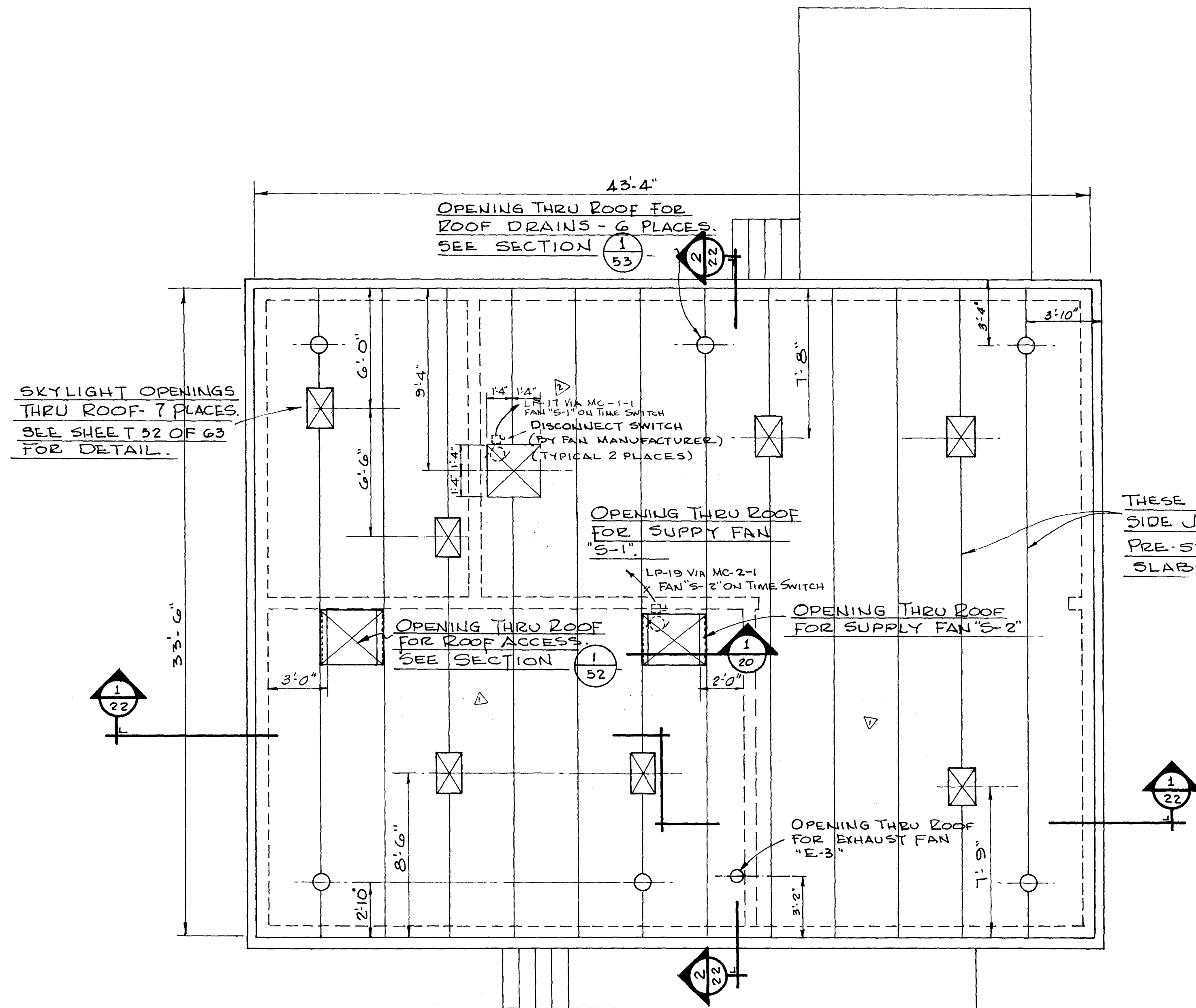
WAITZ & FRYE CONSULTING ENGINEERS, INC.

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

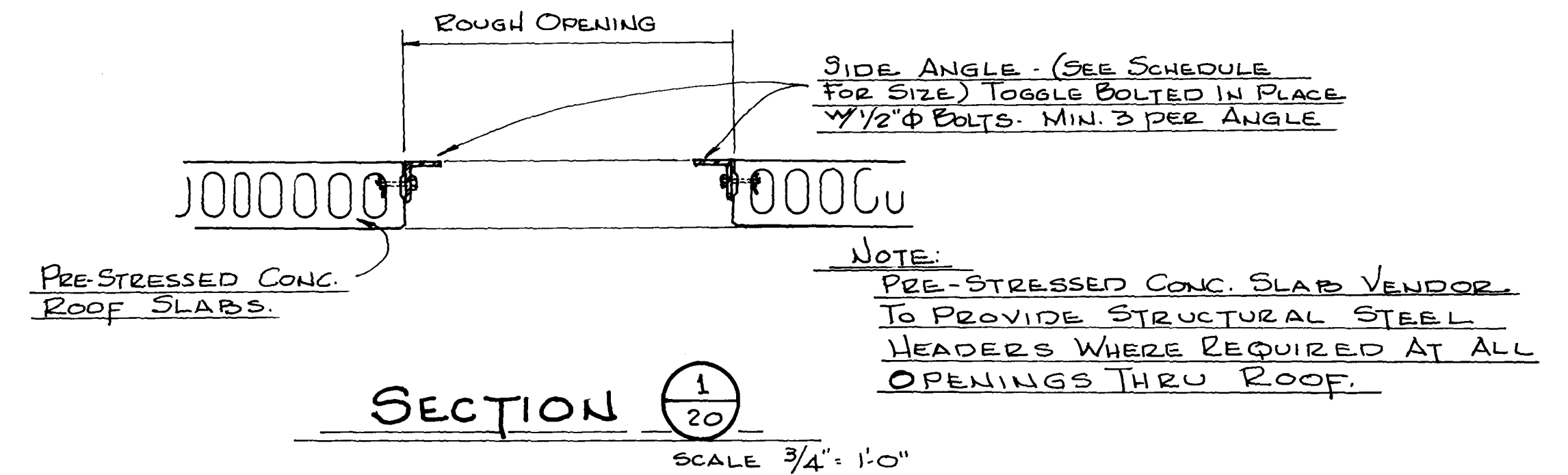
DETAILED BY: **J.W.M.** SCALE _____ DATE _____

CHECKED BY: **H.R.F.**

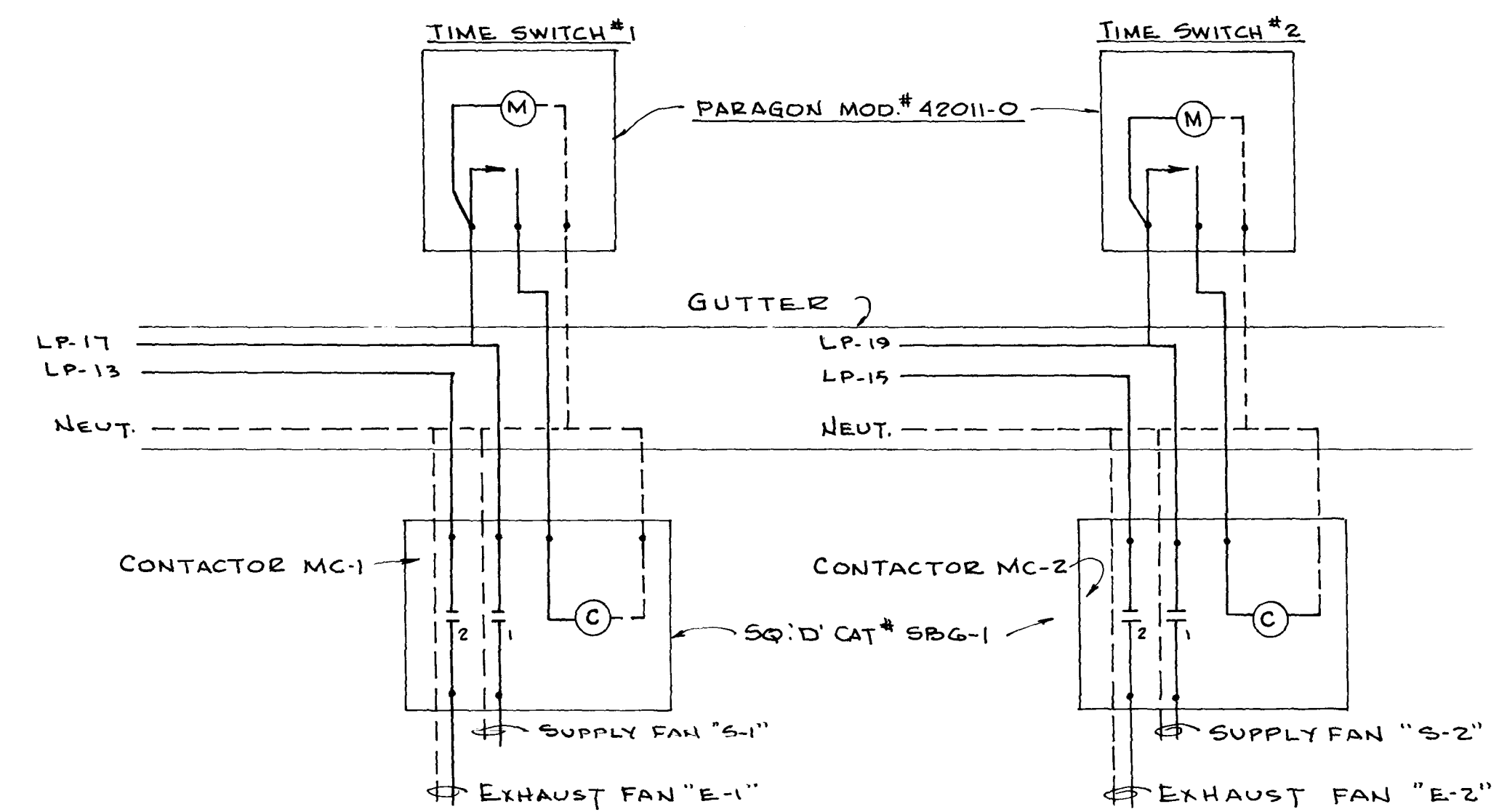
										SUBMITTED BY <u>James Watz</u> REG. ENGR. FLA. NO. <u>7094</u> DATE <u>7-15-74</u> <u>WATZ & FRYE CONSULTING ENGINEERS, INC.</u> APPROVAL REG. AUTHORIZED BY <u>H. L. G. 118</u> REG. ENGR. FLA. NO. <u>9663</u> DATE <u>7-25-74</u> <u>SVERDRUP & KASCH, AND ASSOCIATES, INC.</u>										APPROVED BY _____ DATE _____ REG. ENGR. FLA. NO. _____ DATE _____ AUTHORIZED BY <u>H. L. G. 118</u> REG. ENGR. FLA. NO. _____ DATE <u>7/1/74</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA									
NO.	DESCRIPTION				REV.	FIRM	DATE	CRP	DATE	SV	DATE																		
REVISIONS				SUBMITTAL				APPROVAL																					



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



Roof Fan Opening Schedule		
FAN	ROUGH OPENING SIZE	SIDE ANGLE SIZE
S-1	32" x 32"	NONE
S-2	32 3/4" x 40"	5" x 3 1/2" x 1/4" ONE EACH SIDE
E-3	7" DIA.	NONE

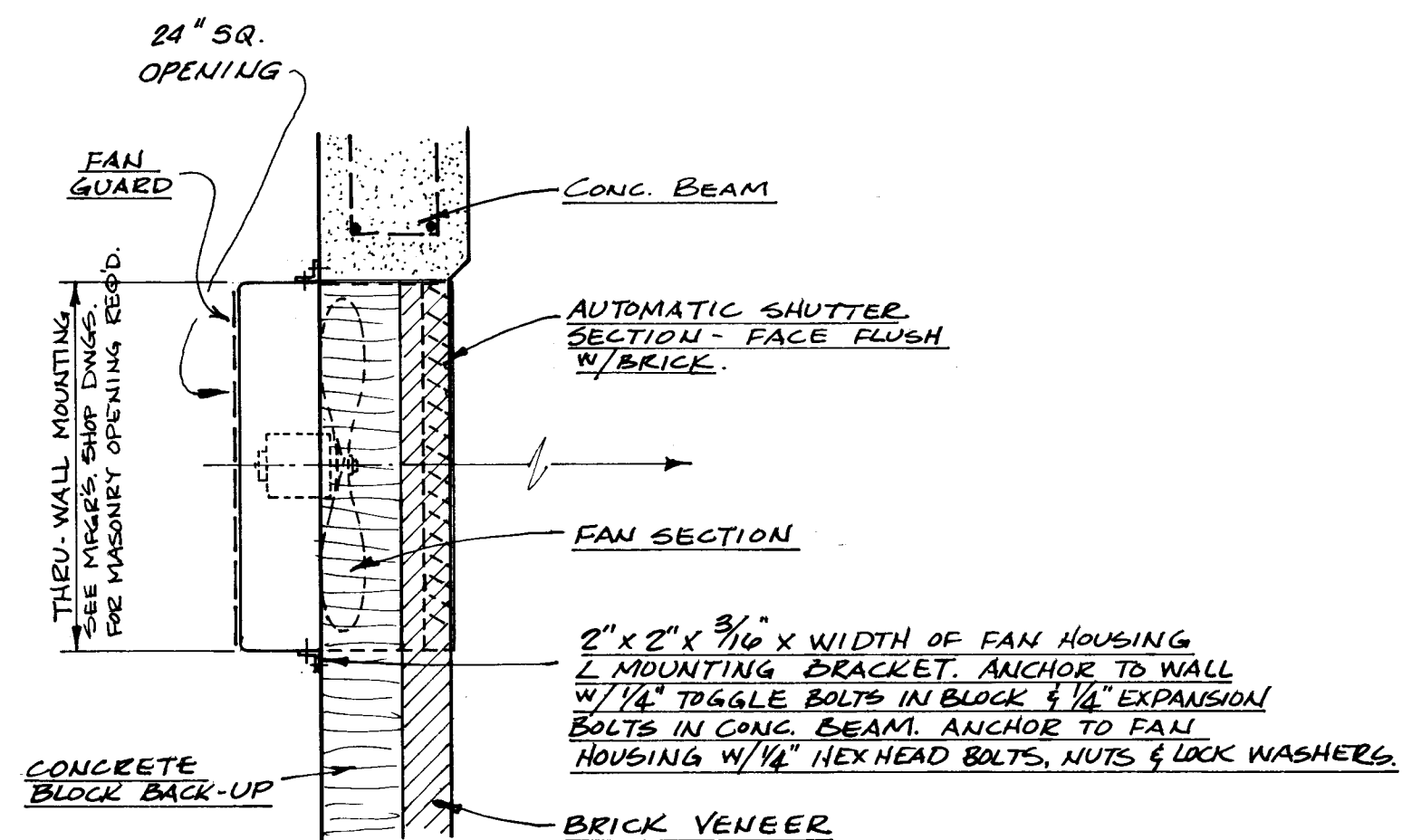


CONTROL DIAGRAM - SUPPLY & EXHAUST FANS

12019

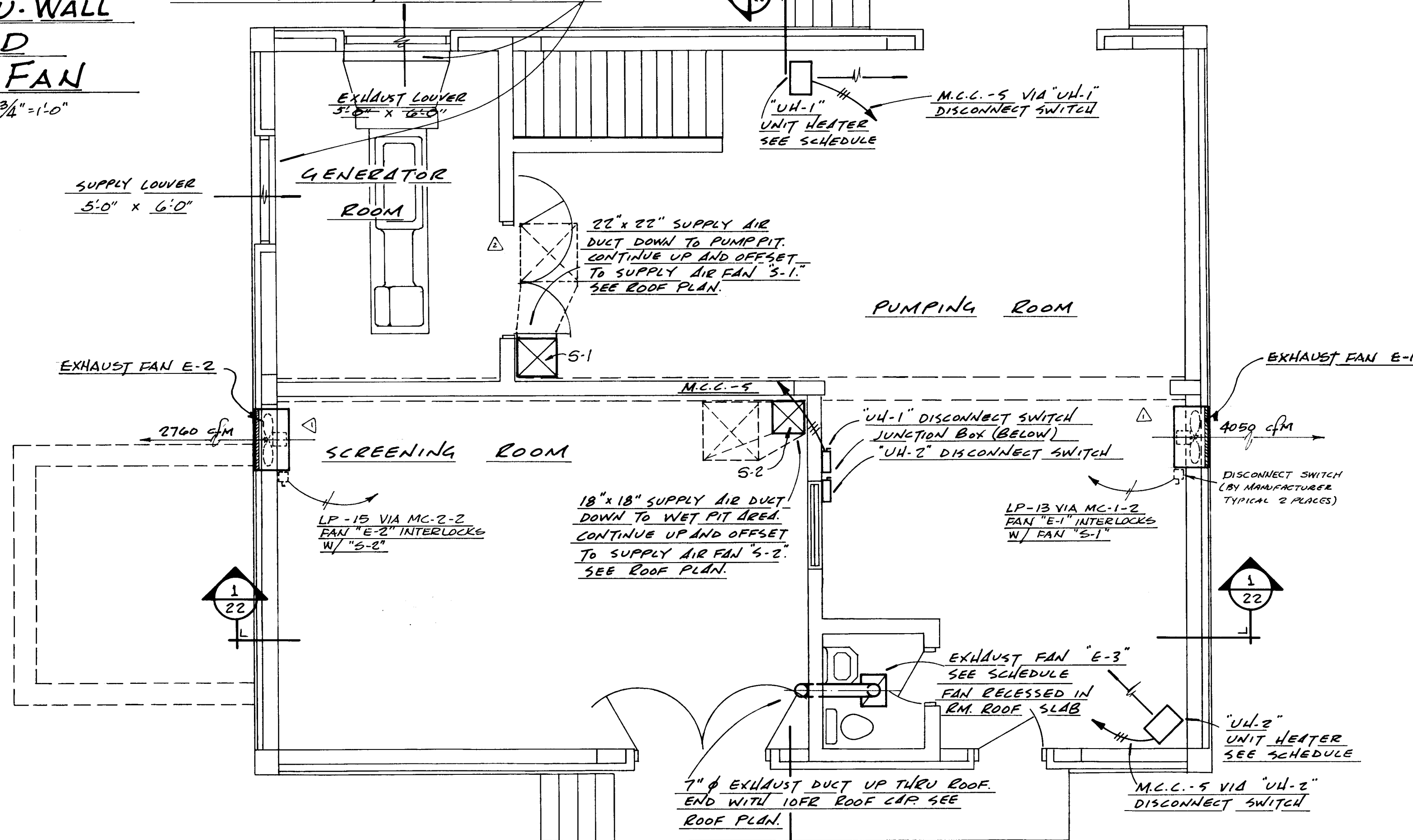
AS BUILT
DEC. 1981

SUBMITTED BY: <i>James Waitz</i> REG. ENGR. FLA. NO. 7674 DATE 7-15-74 WAITZ & FRYE CONSULTING ENGINEERS, INC. APPROVED BY: <i>M. S. [Signature]</i> REG. ENGR. FLA. NO. 9663 DATE 7-25-74 SVERDRUP & PARCEL AND ASSOCIATES, INC.				CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM SEWAGE PUMPING STATION NORTH DISTRICT PART I				WAITZ & FRYE CONSULTING ENGINEERS, INC. SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT DETAILED BY: J.W.M. SCALE: _____ DATE: _____ CHECKED BY: C.H.				BISCAYNE VILLAGE PUMPING STATION ROOF PLAN CONTR. NO. JS-41.1 PROJ. NO. _____ SHEET NO. 20 OF 65			
REVISIONS NO. DESCRIPTION BY FIRM DATE S.F. DATE PW DATE 1 DELETED EXHAUST AIR FAN OPENINGS JWM WAF 3-27-79 3-27-79 3-27-79 2 DELETED EXHAUST AIR FAN OPENINGS JWM WAF 3-27-79 3-27-79 3-27-79															

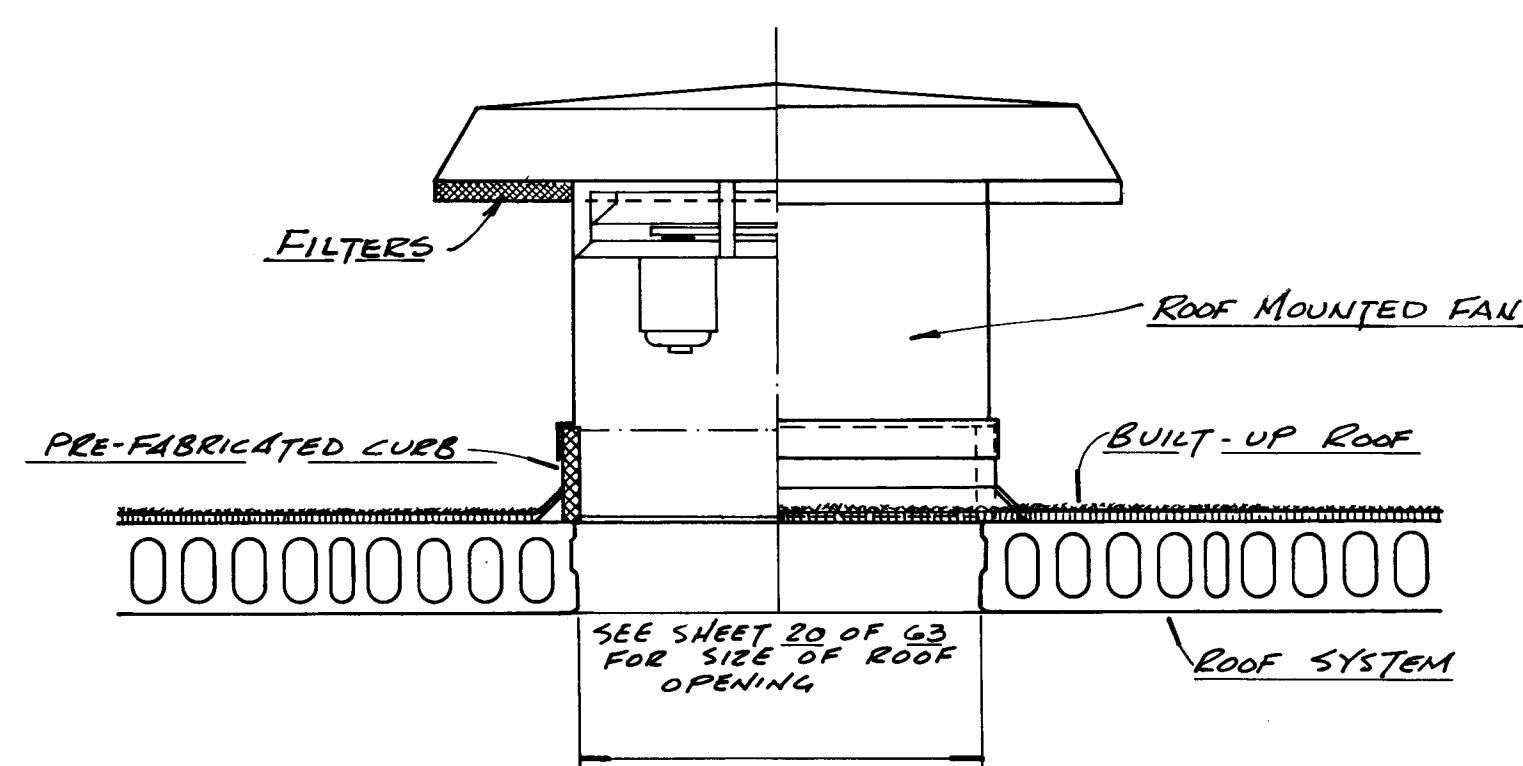


**DETAIL THRU-WALL
MOUNTED
EXHAUST FAN**
3/4" = 1'-0"

ALUMINUM VENTILATION LOUVERS EQUAL TO
CARNES L-31 COMPLETE WITH BIRD SCREENS.



VENTILATION AND HEATING PLAN
1/4" = 1'-0"



DETAIL ROOF MOUNTED FAN
NOT TO SCALE

EQUIPMENT SCHEDULE				
MARK	DESCRIPTION	H.P.	K.W.	VOLTAGE
E-1	EXHAUST FAN (PUMPING ROOM) AEROVENT MODEL NO. 24L428 4050 CFM @ 1/4" S.P.	1/3		120
E-2	EXHAUST FAN (SCREENING ROOM) AEROVENT MODEL NO. 21L432 2760 CFM @ 1/4" S.P. (EXPLOSION PROOF)	1/4		120
E-3	EXHAUST FAN (TOILET ROOM) PENN MODEL NO. 2-10 350 CFM @ 1/8" S.P.	1/10		120
S-1	SUPPLY AIR FAN (PUMPING ROOM) COOLAIR MODEL NO. KSDC24GBF 3750 CFM @ 1/8" S.P.	1/3		120
S-2	SUPPLY AIR FAN (SCREENING ROOM) COOLAIR MODEL NO. K5BC24GBF 2400 CFM @ 1/4" S.P. (EXPLOSION PROOF)	1/3		120
UH-1	ELECTRIC UNIT HEATER CHROMALOX MODEL 'A' CAT. NO. LUH 125	1	12.5	480
UH-2	ELECTRIC UNIT HEATER CHROMALOX MODEL 'A' CAT. NO. LUH 75	1	7.5	480

AS BUILT
DEC. 1981

- NOTES**
1. PROVIDE PRE-FABRICATED 8" HIGH CURBS, DISCONNECT SWITCH, AND BIRD SCREENS FOR FANS E-1, E-2
 2. PROVIDE SELF ACTING SHUTTERS AND GUARD FOR FANS E-1, E-2 ONLY
 3. FANS SHALL BE OF ALUMINUM CONSTRUCTION. STEEL SURFACES SHALL BE INCAPSULATED IN PVC OR HAVE EQUAL CORROSION PROTECTIVE COATING.

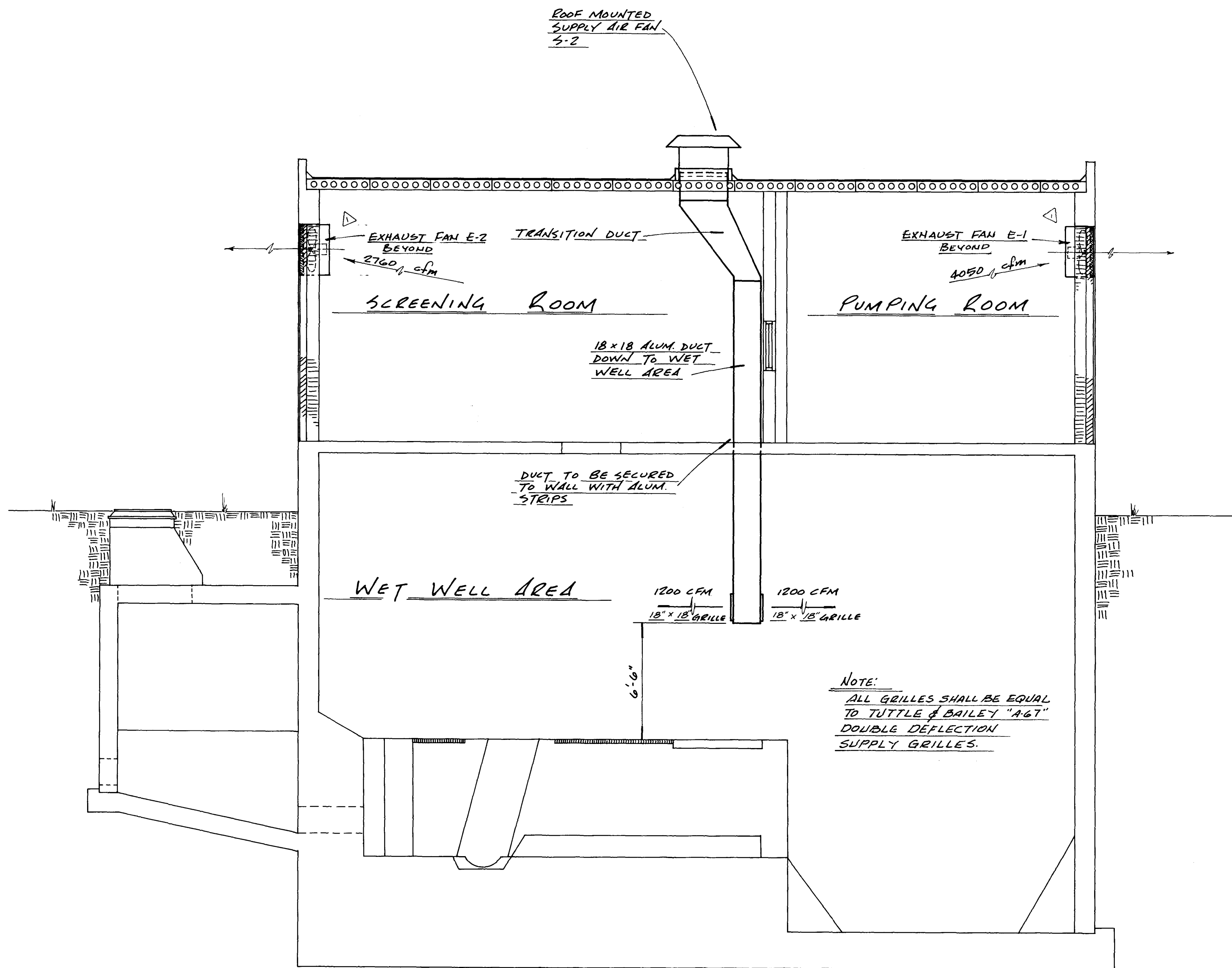
12020



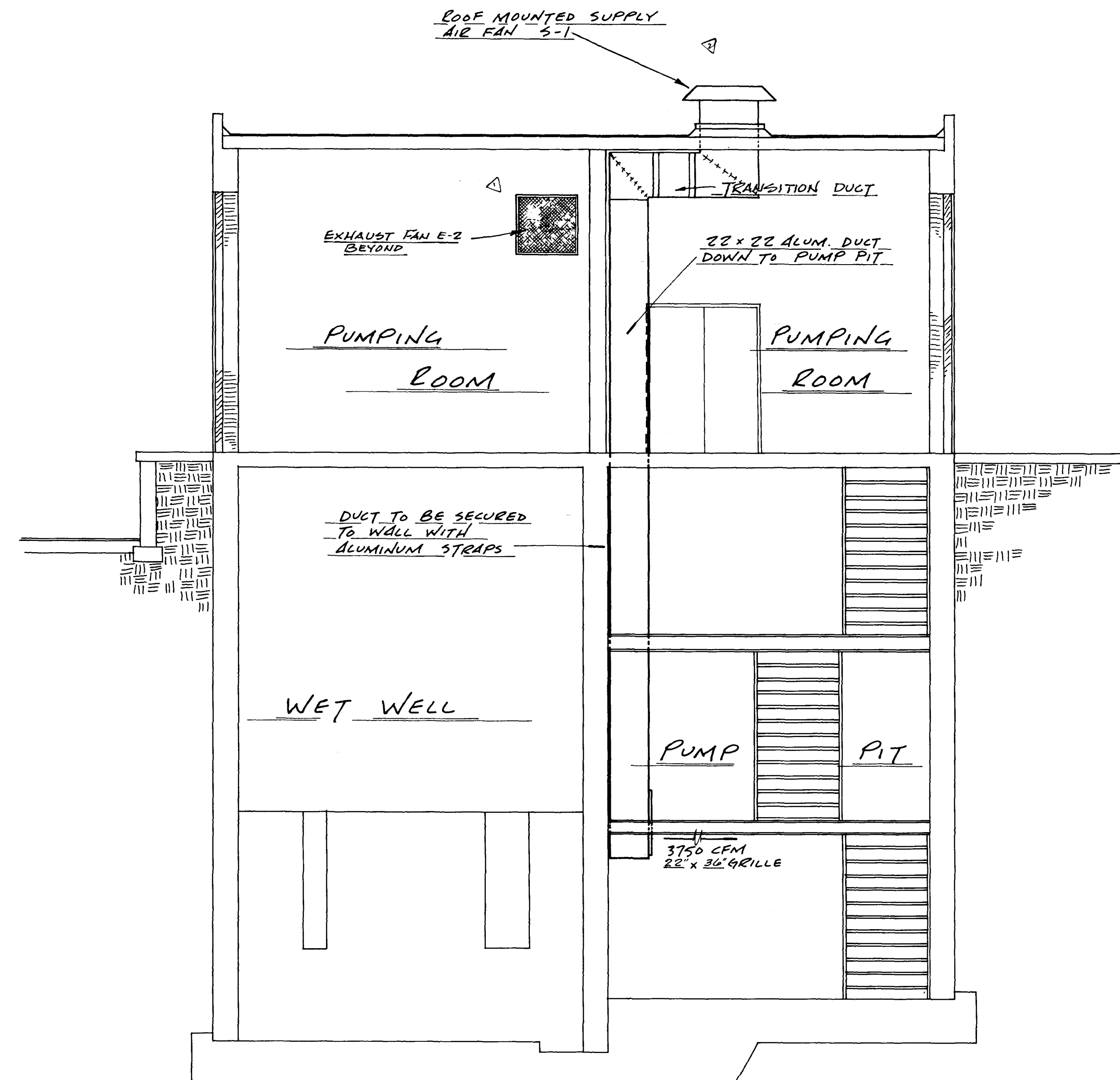
SUBMITTED BY: <i>James W. Waitz</i> REG. ENGR. FLA. NO. 7694 DATE 7-8-74		APPROVED BY: <i>James W. Waitz</i> REG. ENGR. FLA. NO. 7694 DATE 7-8-74	
RELOCATED SUPPLY AIR FAN S-1 FOR MEMO 7-8-79 CITY OF JACKSONVILLE		RELOCATED EXHAUST AIR FANS & REVISED FAN EQUIP. SCHEDULE & NOTES	
NO.	DESCRIPTION	BY	DATE
1	RELOCATED SUPPLY AIR FAN S-1 FOR MEMO 7-8-79 CITY OF JACKSONVILLE	JWW	7-8-79
2	RELOCATED EXHAUST AIR FANS & REVISED FAN EQUIP. SCHEDULE & NOTES	JWW	7-8-79

CITY OF JACKSONVILLE, FLORIDA		SEWERAGE IMPROVEMENT PROGRAM SEWAGE PUMPING STATION NORTH DISTRICT PART I	
SUBMITTED BY: <i>James W. Waitz</i> REG. ENGR. FLA. NO. 7694 DATE 7-8-74		APPROVED BY: <i>James W. Waitz</i> REG. ENGR. FLA. NO. 7694 DATE 7-8-74	
RELOCATED SUPPLY AIR FAN S-1 FOR MEMO 7-8-79 CITY OF JACKSONVILLE		RELOCATED EXHAUST AIR FANS & REVISED FAN EQUIP. SCHEDULE & NOTES	
NO.	DESCRIPTION	BY	DATE
1	RELOCATED SUPPLY AIR FAN S-1 FOR MEMO 7-8-79 CITY OF JACKSONVILLE	JWW	7-8-79
2	RELOCATED EXHAUST AIR FANS & REVISED FAN EQUIP. SCHEDULE & NOTES	JWW	7-8-79

WAITZ & FRYE CONSULTING ENGINEERS, INC.		BISCAYNE VILLAGE PUMPING STATION VENTILATION & HEATING PLAN	
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT		CONTR. NO. JS-41.1 PROJ. NO. SHEET NO. 21 OF 65	
DETAILED BY: D.K.	SCALE:	DATE:	
CHECKED BY: D.B.M.			



CROSS SECTION 1
1/4" = 1'-0"



CROSS SECTION 2
1/4" = 1'-0"

12021

AS BUILT
DEC. 1981

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.

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

DETAILED BY: D.K. SCALE: DATE:
CHECKED BY: D.B.M.

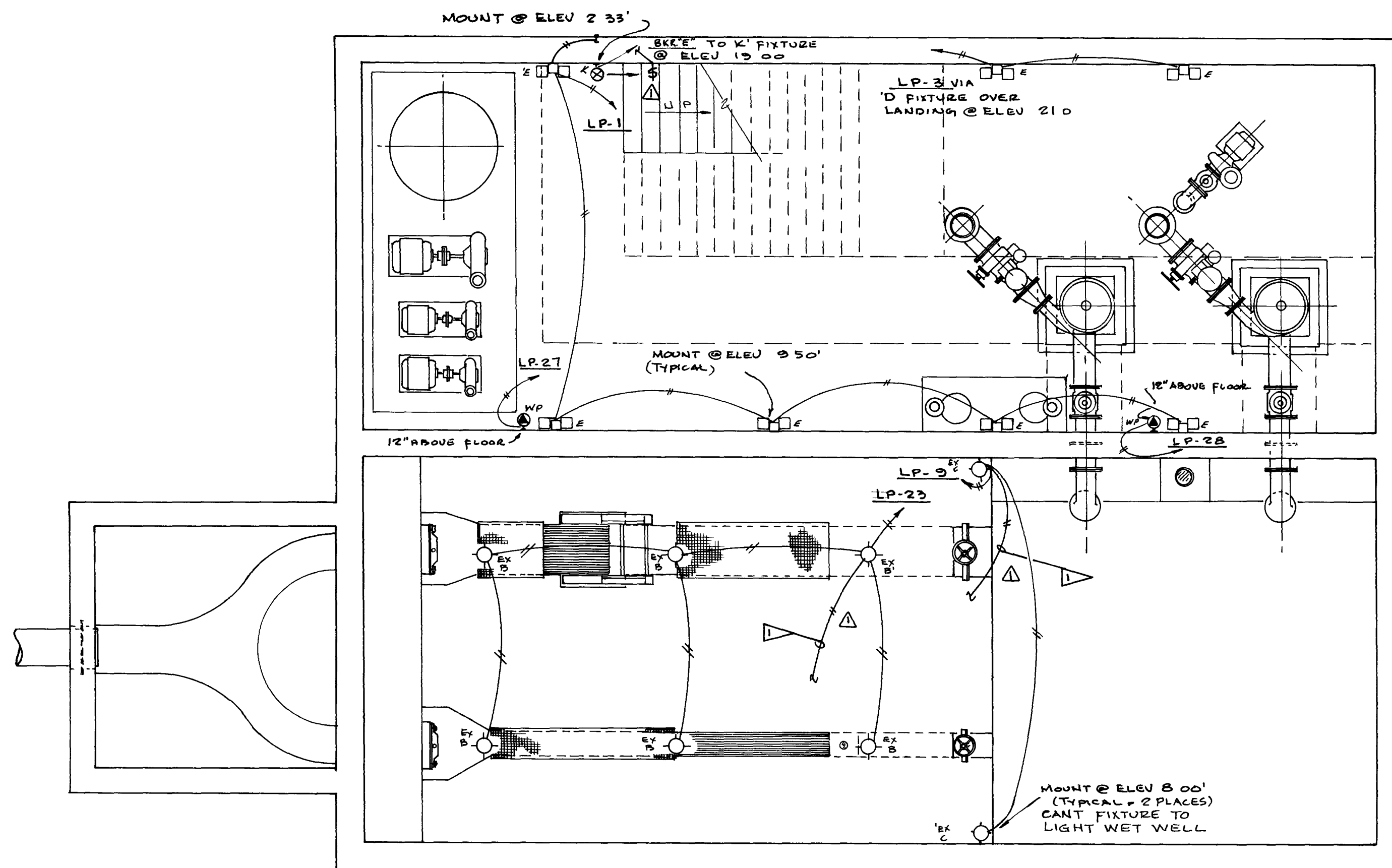
BISCAYNE VILLAGE PUMPING STATION
VENTILATION CROSS SECTION

CONTR. NO. JS-41.1 PROJ. NO. SHEET NO. 22 OF 65

SUBMITTED BY: <i>James Waitz</i>		APPROVED BY: <i>[Signature]</i>	
REG. ENGR. FLA. NO. 7694 DATE: 7-15-74		REG. ENGR. FLA. NO. 7694 DATE: 7-15-74	
WAITZ & FRYE CONSULTING ENGINEERS, INC.		WAITZ & FRYE CONSULTING ENGINEERS, INC.	
SUBMITTED BY: <i>[Signature]</i>		APPROVED BY: <i>[Signature]</i>	
REG. ENGR. FLA. NO. 9663 DATE: 7-25-74		REG. ENGR. FLA. NO. 9663 DATE: 7-25-74	
SVERDRUP & PARCEL AND ASSOCIATES, INC.		SVERDRUP & PARCEL AND ASSOCIATES, INC.	
NO. DESCRIPTION		NO. DESCRIPTION	
1. RELOCATED SUPPLY AIR FAN "S-1"		1. RELOCATED SUPPLY AIR FAN "S-1"	
2. ASSOCIATED DUCTWORK		2. ASSOCIATED DUCTWORK	
3. RELOCATED EXHAUST FANS		3. RELOCATED EXHAUST FANS	
SUBMITTAL		APPROVAL	

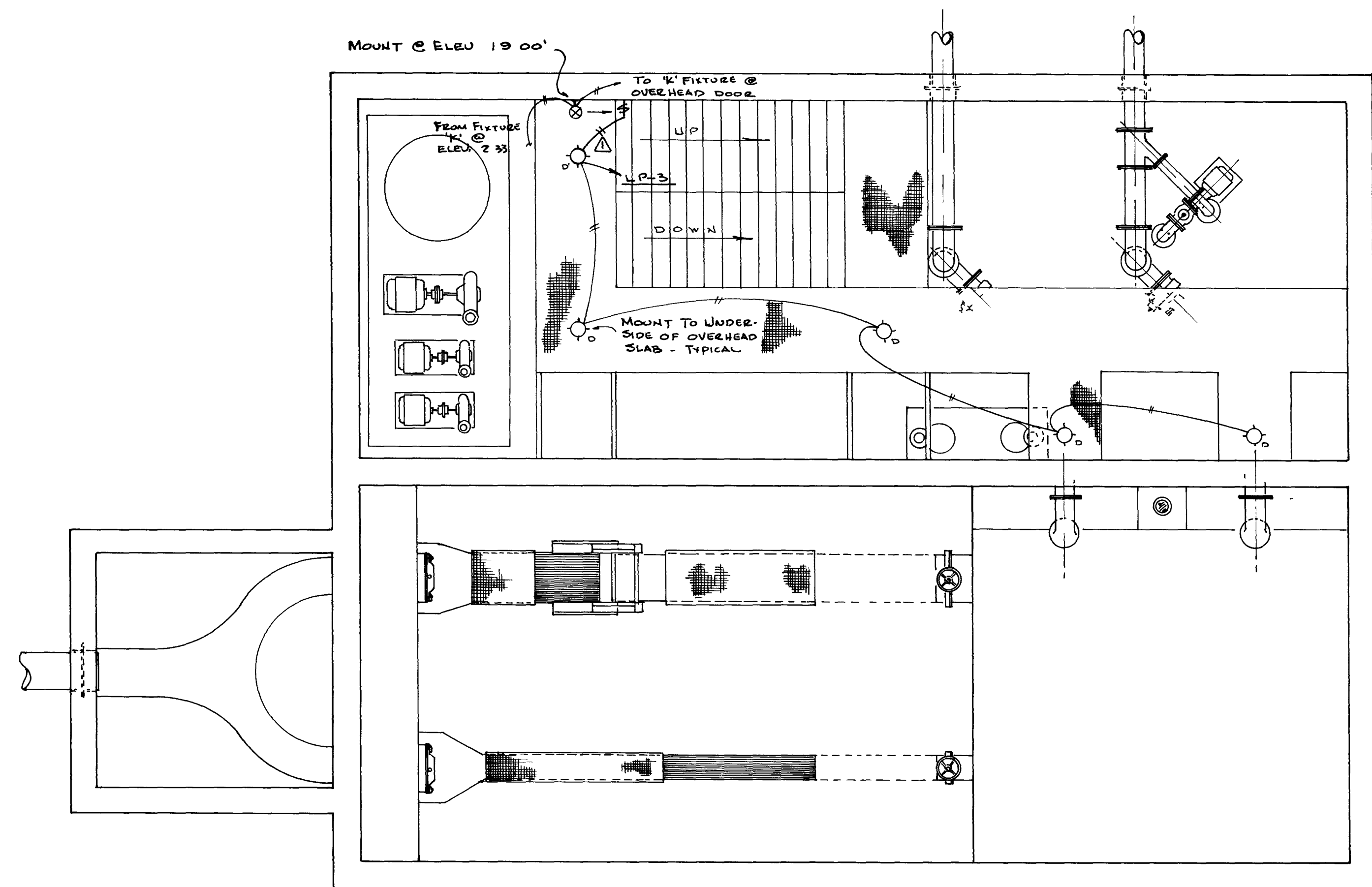
NOTES

△ TO WEATHERPROOF SWITCH LOCATED AT SCREENING ROOM ENTRANCE, MAIN FLOOR



LIGHTING PLAN - LOWER LEVEL

SCALE 1/4" = 1'-0"



LIGHTING PLAN - INTERMEDIATE LEVEL

SCALE 1/4" = 1'-0"

12022

AS BUILT
DEC. 1981

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.

SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT

DETAILED BY J.W.M. SCALE DATE
CHECKED BY C.H.

BISCAYNE VILLAGE PUMPING STATION
LIGHTING PLANS

CONTRACT NO. JS-41.1

SHEET NO. 23 OF 65

NO.	DESCRIPTION	BY	DATE	REVISION	DATE
1	ADDED LIGHTING SWITCHES	H.M.Z.	11-10-80	1	11-10-80
2					
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DESIGNED BY: *James W. Waitz*
DATE: 7-15-74
CHECKED BY: *John H. Frye*
DATE: 7-25-74
APPROVED BY: *John H. Frye*
DATE: 7-25-74
PROJECT NO. 9663
CITY OF JACKSONVILLE, FLORIDA

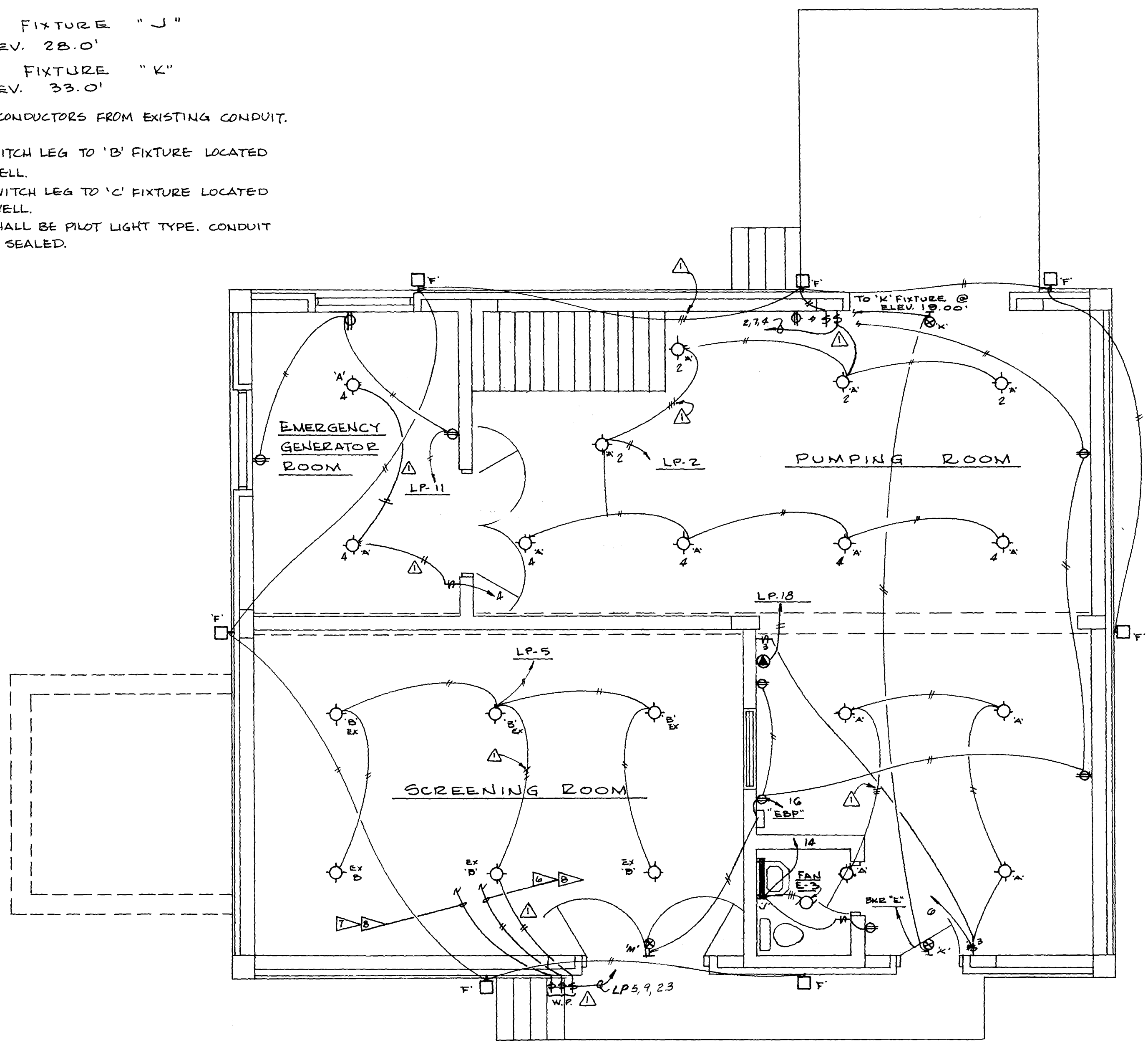
APPROVED BY: *John H. Frye*
DATE: 7-25-74
PROJECT NO. 9663
CITY OF JACKSONVILLE, FLORIDA

APPROVED BY: *John H. Frye*
DATE: 7-25-74
PROJECT NO. 9663
CITY OF JACKSONVILLE, FLORIDA

APPROVED BY: *John H. Frye*
DATE: 7-25-74
PROJECT NO. 9663
CITY OF JACKSONVILLE, FLORIDA

NOTE:

1. MOUNT FIXTURES "A" & "B" AT ELEV. 35.0'
 2. MOUNT FIXTURE "F" AT ELEV. 32.5'
 3. MOUNT FIXTURE "J" AT ELEV. 28.0'
 4. MOUNT FIXTURE "K" AT ELEV. 33.0'
- △ ▷ REMOVE CONDUCTORS FROM EXISTING CONDUIT.
- △ ▷ ROUTE SWITCH LEG TO 'B' FIXTURE LOCATED IN WET WELL.
- △ ▷ ROUTE SWITCH LEG TO 'C' FIXTURE LOCATED IN WET WELL.
- △ ▷ SWITCH SHALL BE PILOT LIGHT TYPE. CONDUIT SHALL BE SEALED.



LIGHTING PLAN - MAIN FLOOR

SCALE 1/4" = 1'-0"

FIXTURE SCHEDULE		
MARK	LAMP	FIXTURE
A	250 W M.V.	CROUSE-HINDS CAT. No. LBM-C2C 250M
B	250 W M.V.	CROUSE-HINDS CAT. No. EVMCX T2251 W/ EV 3912 REFLECTOR
C	250 W M.V.	CROUSE-HINDS CAT. No. EVA 32517
D	100W INCAND.	STONCO CAT. No. VCXL - 11 GC
E	250 W M.V.	HOLOPHANE WALL PACK CAT. No. 588-120V.
F	175W M.V.	KIM LIGHT FIXTURE CAT. No. EKG-195, 175W M.V. LAMP - SPECIAL ANCHOR BOLT ASSEMBLY REQ'D.
G	400W M.V.	KIM LTG. FIXTURE CAT. No. EKG-125, BLACK W/400W M.V. LAMP, 16" ALUM., SQUARE, NON-TAPERED, BLACK, POLE CAT. No. PNTSA-16A-BL-E
H	2-400W M.V.	SAME AS "G" EXCEPT TWIN FIXTURE W/ POLE CAT. No. PNTSA-16P-BL-E
J	40W FLUOR/OUTLET	PRESOLITE CAT. No. 308T FLUORESCENT WITH GROUNDED CONVENIENCE OUTLET.
K	2-20 + 6 1/2 DC/IF	PRESOLITE CAT. No. TG221 W/ARROWS AS SHOWN ON PLANS.
L	2-20 + 6 1/2 DC/IF	PRESOLITE CAT. No. TG321 W/ARROWS AS SHOWN ON PLANS.
M	1-12VOLT D.C./18 WATT	DUAL-LITE CAT. No. Ex-100 WITH No. DS-DB2F5H WALL MOUNTED 277V. EMERGENCY BATTERY UNIT "EBU"

PANEL SCHEDULE - "LP"											
120/208V-3φ-4W 150A MAIN CIRCUIT BREAKER-225A LUGS AND BUS											
CKT. NO.	PHASE	LOAD AMPS	T P	AWG SIZE	DESIGNATION	CKT. NO.	PHASE	LOAD AMPS	T P	AWG SIZE	DESIGNATION
1	1	13	20	12	PUMP PIT LIGHTING	2	1	13	20	12	PUMPING & GEN. RM. LIGHTING
3	1	10	20	12	PUMP PIT & WALKWAY LTG.	4	1	13	20	12	" " " " "
5	1	15	20	12	SCREENING RM. LIGHTING	6	1	14	20	12	TOILET RM. LIGHT & FAN-3 & PUMPING RM. LIGHTING
7	1	13	20	12	EXTERIOR LIGHTING	8	1	12	20	12	PARKING LIGHTS
9	1	5	20	12	WET PIT LIGHTING	10	1	16	20	12	" "
11	1	9	20	12	GEN. ROOM RECEPT.	12	1	12	20	12	" " FUTURE
13	1	6	20	12	EXHAUST FAN-1 VIA MC-1-2	14	1	6	20	12	TRANSFER CONTROL
15	1	6	20	12	EXHAUST FAN-2 VIA MC-2-2	16	1	15	20	12	RECEPTACLES
17	1	8	20	12	SUPPLY FAN S-1 VIA MC-1-1	18	1	10	20	12	BUBBLER CONTROL AND ALARM PANEL
19	1	8	20	12	SUPPLY FAN S-2 VIA MC-2-1	20	1	10	20	12	WATER JACKET HEATER
21	1	2	20		SPARE	22	1	10	20	12	OIL HEATER
23	1	13	20	12	WET PIT OVERHEAD LTG.	24	2	10	20	12	SPECIAL PURPOSE OUTLET
25	1	2	20	12	SOLENOID VALVES 1 & 2	26	-	10	-	-	" " "
27	2	10	20	12	SPECIAL PURPOSE OUTLET	28	2	10	20	12	SLUICE GATE HEATERS 1 & 2
29	-	10	-	-	" " "	30	-	10	-	-	" " "
31					SPACE	32					SPACE
33						34					
35						36					
37						38					
39						40					
41					SPACE	42					SPACE

12023

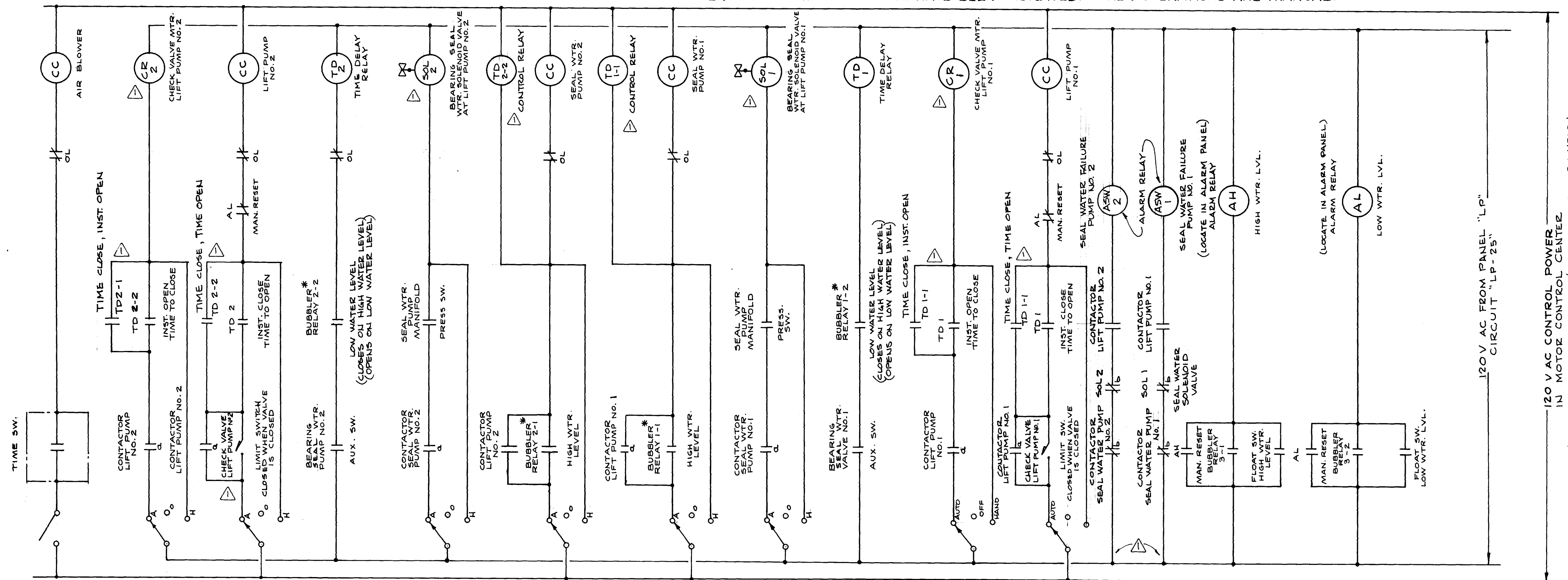
AS BUILT
DEC. 1981



SUBMITTED BY: <i>Shuman White</i> REG. ENGR. FLA. NO. 7674 DATE 7-15-74 WATZ & FRYE CONSULTING ENGINEERS, INC.				APPROVED BY: <i>W. J. M. M.</i> REG. ENGR. FLA. NO. 427 DATE 7-15-74 SVERDRUP & PARFEL AND ASSOCIATES, INC.				CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM SEWAGE PUMPING STATION NORTH DISTRICT PART I				WATZ & FRYE CONSULTING ENGINEERS, INC. SVERDRUP & PARFEL AND ASSOCIATES, INC. - GENERAL CONSULTANT DETAILED BY: J.W.M. SCALE: DATE: CHECKED BY: C.H.				BISCAYNE VILLAGE PUMPING STATION LIGHTING PLAN & SCHEDULE CONTR. NO. JS-41.1 PROJ. NO. SHEET NO. 24 OF 65			
ADDED LIGHT SWITCHES				REVISIONS															

SCHEMATIC DIAGRAM PUMP AND AUXILIARY DEVICE CONTROL

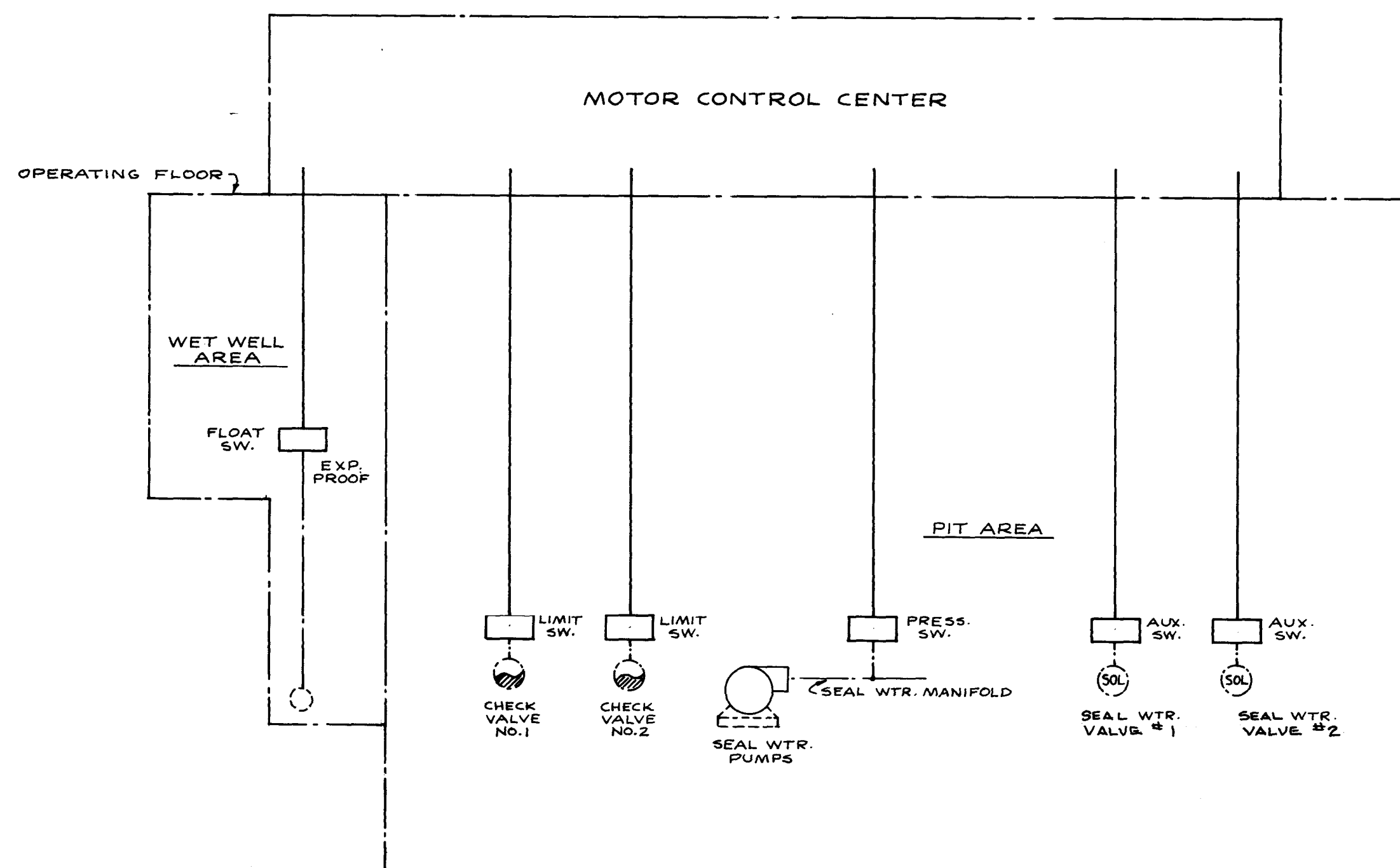
NOTE: THIS DIAGRAM REPRESENTS THE ELECTRICAL DEVICES AND LOGIC FUNCTIONS WHICH ARE REQUIRED TO SEQUENCE AND TO OPERATE THE ASSOCIATED MECHANICAL SYSTEM. TYP. DEVICES AND CONFIGURATIONS ARE SHOWN TO ASSURE THE INTENT OF THE CONTROL SCHEME. ACTUAL CONFIGURATION AND DEGREE OF SOPHISTICATION WILL VARY WITH THE EQUIP. FURNISHED. ONLY THOSE OPERATIONS WHICH REQUIRE AUTOMATIC CONTROL HAVE BEEN INDICATED. OTHER OPERATIONS ARE MANUAL.



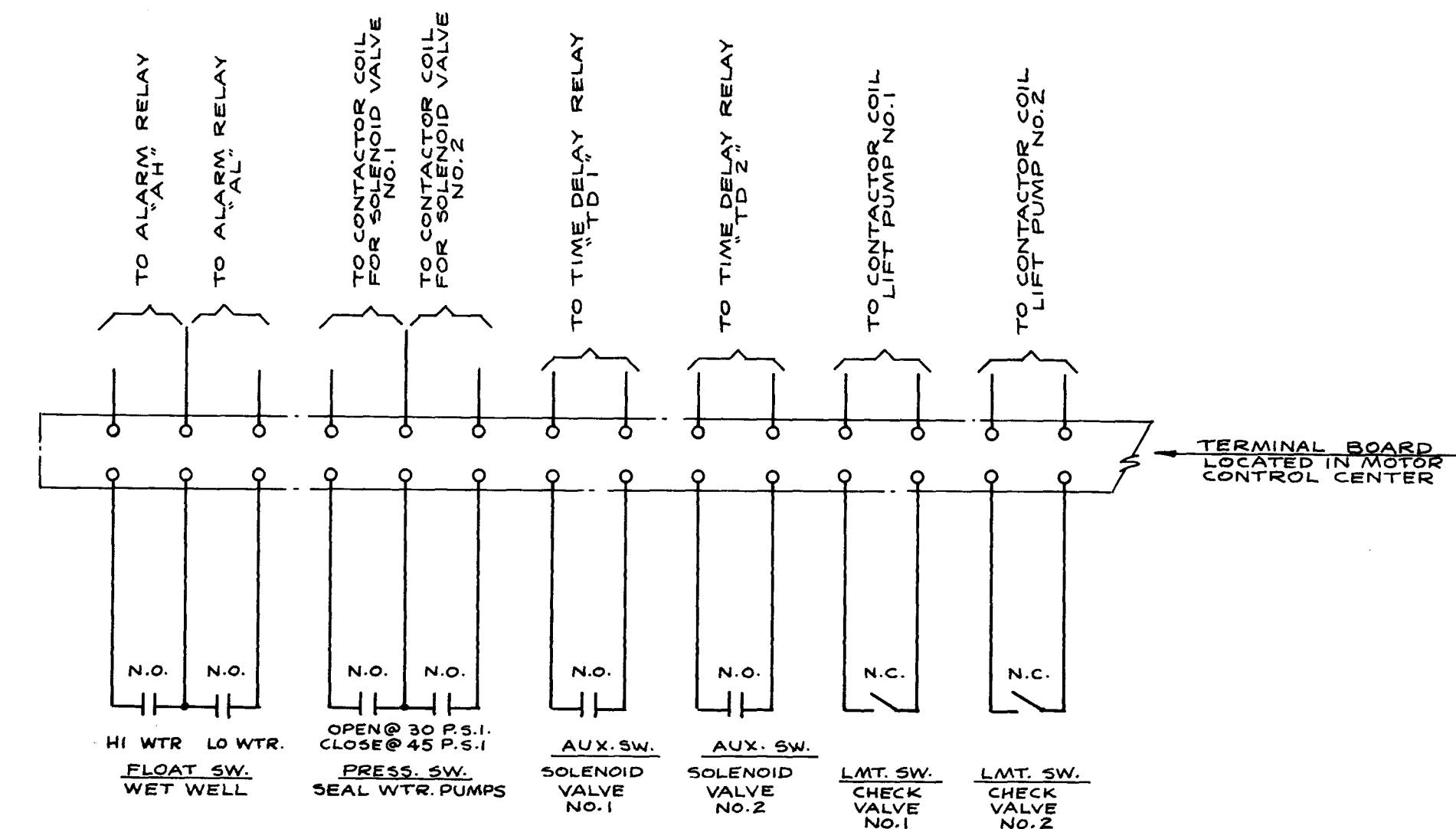
SEQUENCE OF OPERATION

1. RISE IN WET WELL WTR. LEVEL CLOSES BUBBLER RELAY "HI WATER LEVEL" CONTACTS. SEAL WATER PUMP STARTS.
2. PRESSURE SWITCH ON SEAL WATER PUMP MANIFOLD ENERGIZES SEAL WATER SOLENOID VALVE.
- 3a. AUXILIARY SWITCH ON SEAL WATER SOLENOID ENERGIZES TIME DELAY RELAY. LIFT PUMP STARTS. AFTER DELAY, CHECK VALVE OPENS.
- 3b. A FAILURE IN THE SEAL WATER SYSTEM SEQUENCE WILL: (1) START LIFT PUMP, AFTER ADDITIONAL DELAY, AND (2) ENERGIZE "SEAL WATER FAILURE" RELAY.
4. LOWERING OF WET WELL WATER LEVEL OPENS LEVEL CONTROLLER "LOW WATER LEVEL" CONTACTS. TIME DELAY RELAYS ARE DE-ENERGIZED.
5. EMERGENCY SHUT DOWN OF WET WELL PUMPS AND AUXILIARY DEVICES:
 - 1) EITHER THE BUBBLER RELAY CONTACTS OR THE FLOAT SWITCH CONTACTS ENERGIZE "LOW WATER LEVEL" ALARM RELAY.
 - 2) LIFT PUMP STOPS. CHECK VALVE CLOSES. SEAL WATER PUMP STOPS.
 - 3) SEAL WATER SOLENOID IS DE-ENERGIZED. SEAL WATER VALVE CLOSES.
 - 4) AUXILIARY SWITCH ON SEAL WATER SOLENOID DE-ENERGIZES TIME DELAY RELAY.
 - 5) AFTER MALFUNCTIONING COMPONENT IS REPAIRED, RESET "LO WATER LEVEL" ALARM RELAY.
 - 6) SYSTEM IS READY FOR AUTOMATIC SEQUENCE.

* BUBBLER RELAY CONTACTS RESPOND TO FOUR LEVELS IN WET WELL: (1) LOW LEVEL ALARM (2) LIFT PUMP STOP (3) LIFT PUMP START (4) HIGH LEVEL ALARM. ALTERNATOR RELAY IN BUBBLER CONTROL SYSTEM SELECTS LEAD AND LAG LIFT PUMP.



REMOTE SENSING DEVICES
PICTORIAL DIAGRAM
NOT TO SCALE



TERMINAL BOARD CONNECTION DIAGRAM
FOR
REMOTE SENSING DEVICES

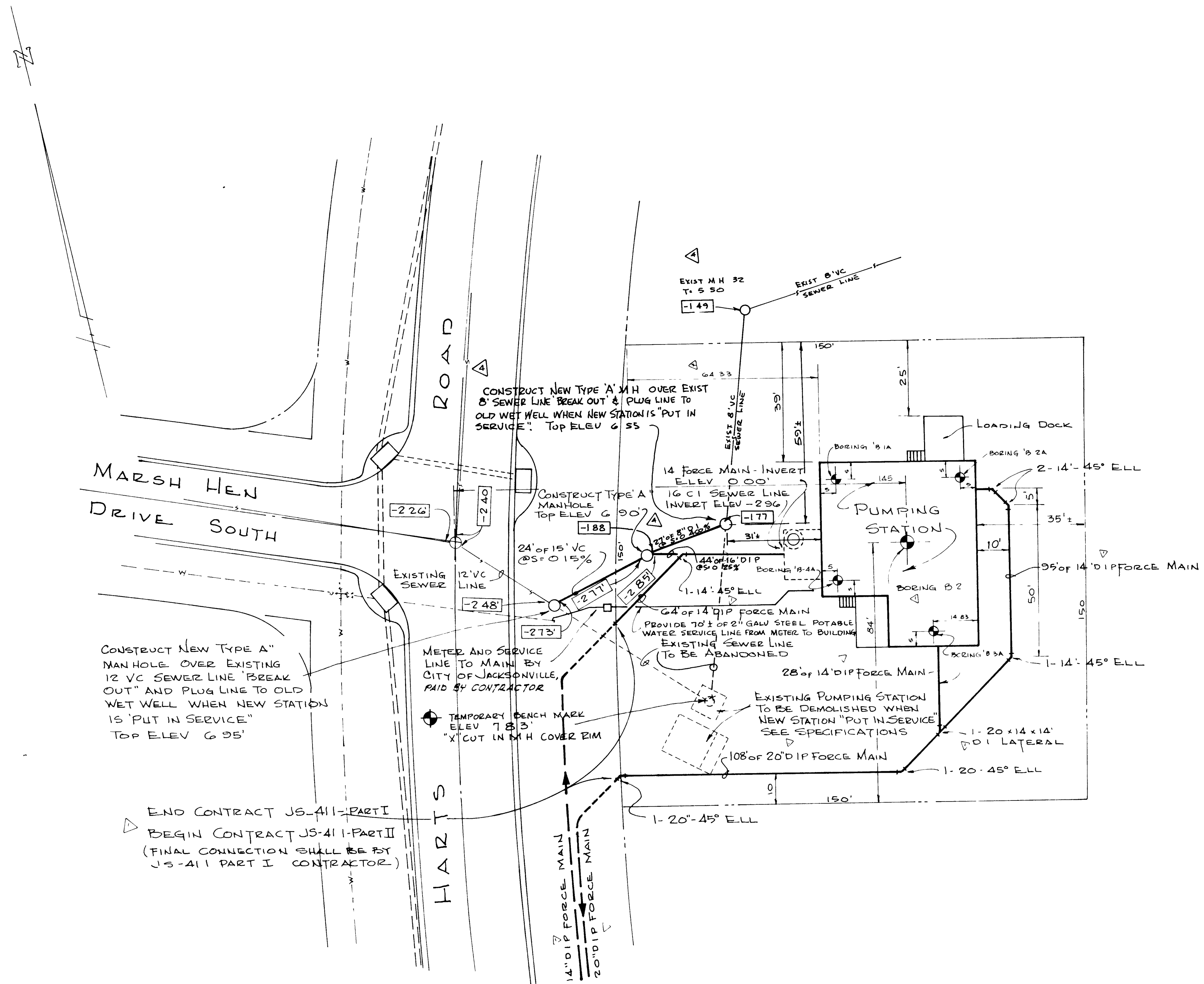
(REFER TO CONTROL SCHEMATIC DIAGRAM FOR SEQUENCE OF OPERATION.)

12025

AS BUILT
DEC. 1981

SUBMITTED BY: <i>James W. Wait</i> DATE: <i>2-18-74</i> REG. ENGR. FLA. NO. <i>7674</i> WAITZ & FRYE CONSULTING ENGINEERS, INC. APPROVED BY: <i>[Signature]</i> DATE: <i>1-25-74</i> REG. ENGR. FLA. NO. <i>9463</i> SVERDRUP & PARCEL AND ASSOCIATES, INC.									
CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM SEWAGE PUMPING STATION NORTH DISTRICT PART I									
WAITZ & FRYE CONSULTING ENGINEERS, INC. SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT BISCAYNE VILLAGE PUMPING STATION SEQUENCING DIAGRAMS									
REVISIONS: NO. DESCRIPTION BY FIRM DATE SSP DATE PW DATE 1. REVISED TO MEET CITY OF JACKSONVILLE REQUIREMENT FOR SEAL PUMP OPERATION. H.M.Z. W.F.F. 1/27/74 12/1/74 12/1/74									
SUBMITTAL: APPROVAL:									
CONTRACT NO. JS-41.1 PROJECT NO. SHEET NO. 26 OF 65									

ADD LOCATION BORINGS - B-1A, B-2A, B-3A, B-4A JWM WCF 7-17-74 REG 7-7-74 JWM WCF 4-17-74 CFC 4-7-74 JWM WCF 7-16-74 155227 REV FROM CL TO DIP - ADDED BORING LOCATION & PILING NOTES NO UNCHANGED REVISIONS BY EPM CTE SGP GTE TV DATE SUBMITTAL APPROVAL										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM SEWAGE PUMPING STATION NORTH DISTRICT PART I										WAITZ & FRYE CONSULTING ENGINEERS, INC. SVERDRUP & PARCEL AND ASSOCIATES INC - GENERAL CONSULTANT DETAILS BY JWM CHECKED BY SW DATE COUNTY NO JS-41.1 SHEET NO 27 OF 65									
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SITE PLAN

SCALE 1" = 20'

1012

12027



NO	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
1	ADDED MH OVER EXIST 8 SEWER LINE	JWM	W&F	1/14/74	GEG	1/15/74	J.H.H.	1/18/74
2	ADDED LOCATION BORINGS B 1A, B 2A, B 3A, B 4A	JWM	W&F	7/16/74	C	7/17/74		
3	ADDED DIMENSIONS & TEMP BENCH MARK	JWM	W&F	4/17/74	C	4/17/74		
4	REV FROM C1 TO DIP - ADDED BORING LOCATION & PIPING NOTES	JWM	W&F	7/14/74		8/22/74		8/22/74

SUBMITTED BY	DATE
REG ENGR FLA NO 7074	DATE 7-15-74
WAITZ & FRYE CONSULTING ENGINEERS, INC.	
APPROVAL	DATE
REG ENGR FLA NO 7111	DATE 7-22-74
SVERDRUP & PARCEL AND ASSOCIATES, INC.	

APPROVED BY	DATE
REG ENGR FLA NO	DATE
OFFICE OF DIRECTOR OF PUBLIC WORKS	
CITY OF JACKSONVILLE FLORIDA	

CITY OF JACKSONVILLE, FLORIDA

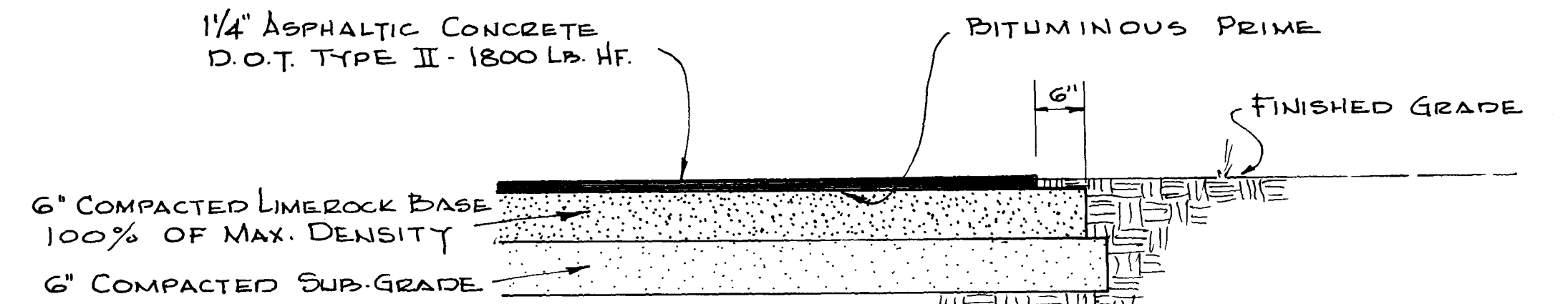
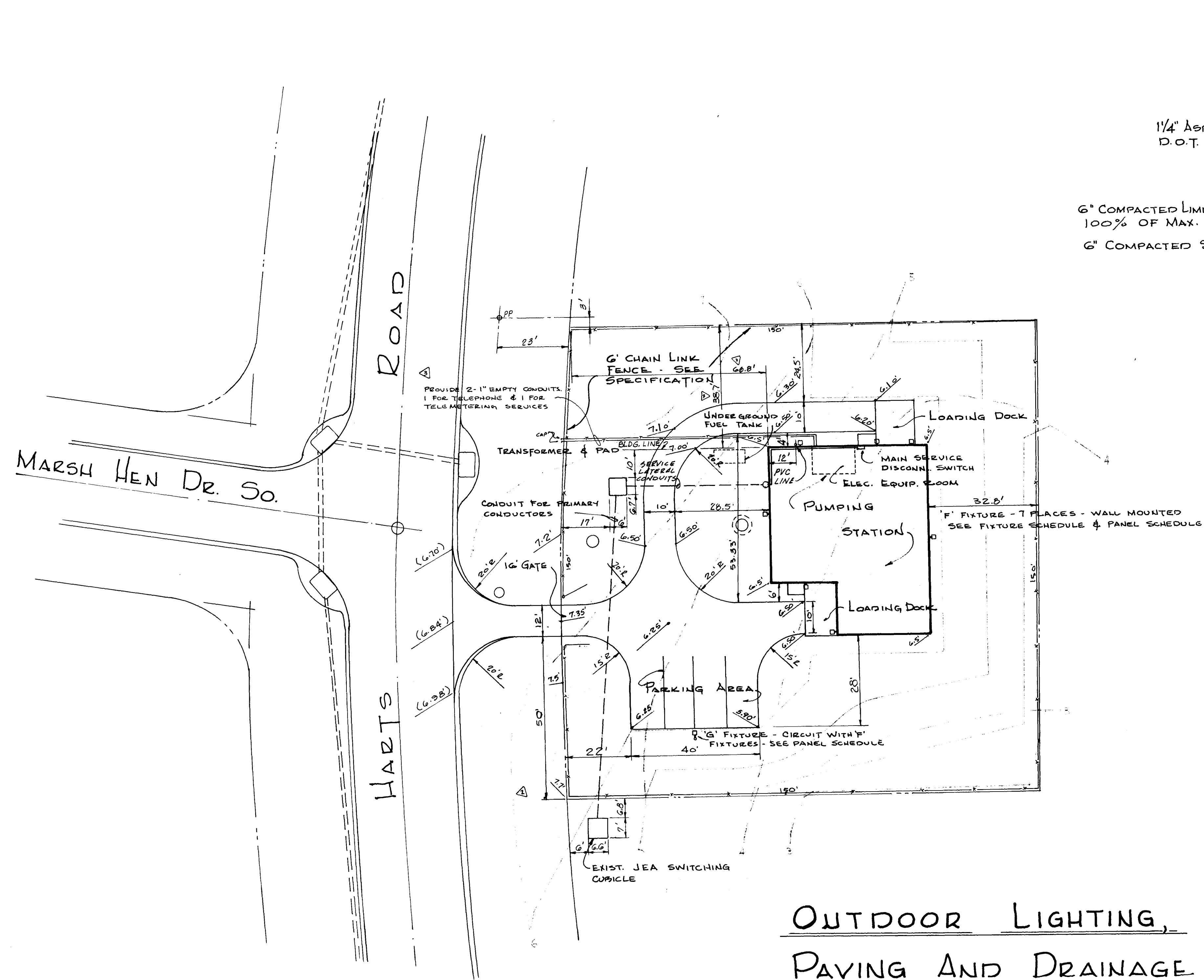
SEWERAGE IMPROVEMENT PROGRAM

SEWAGE PUMPING STATION

NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.
SVERDRUP & PARCEL AND ASSOCIATES, Inc -- GENERAL CONSULTANT
DETAILED BY JWM
CHECKED BY S W

TURTLE CREEK PUMPING STATION
SITE PLAN
CONTR NO JS-41.1
PROJ NO
SHEET NO 27A OF 65



TYPICAL PAVEMENT SECTION
NOT TO SCALE

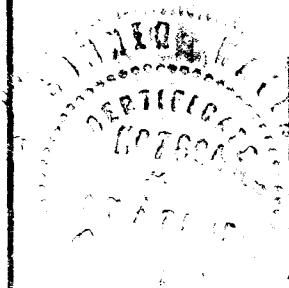
**OUTDOOR LIGHTING,
PAVING AND DRAINAGE PLAN**

SCALE 1" = 20'

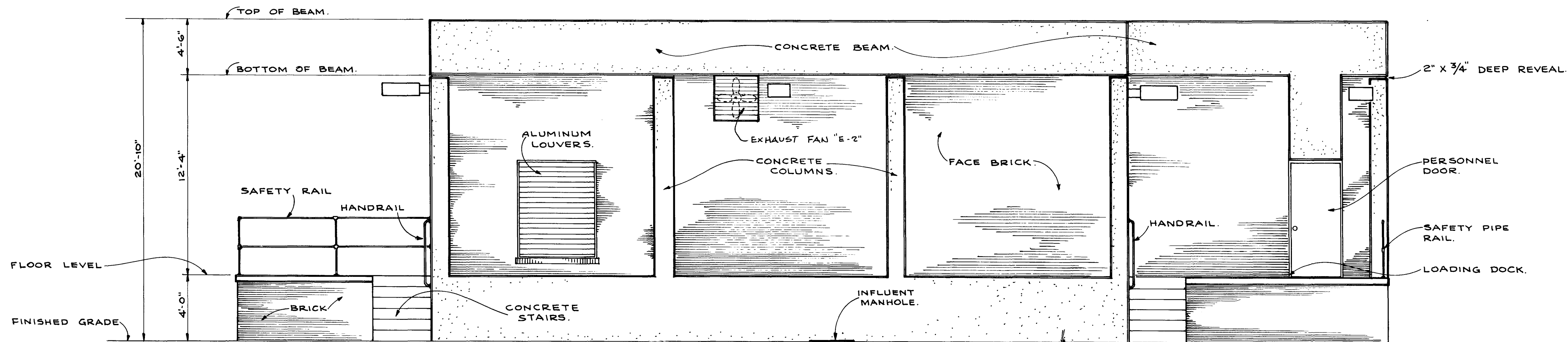
AS BUILT
DEC. 1981

GRASSING NOTE:
ALL AREAS DISTURBED BY CONSTRUCTION AND/OR DEMOLITION SHALL BE LEVELED TO FINISHED GRADE AS SHOWN AND UNLESS OTHERWISE NOTED, SEEDED AND MULCHED. SEE SPECIFICATIONS.

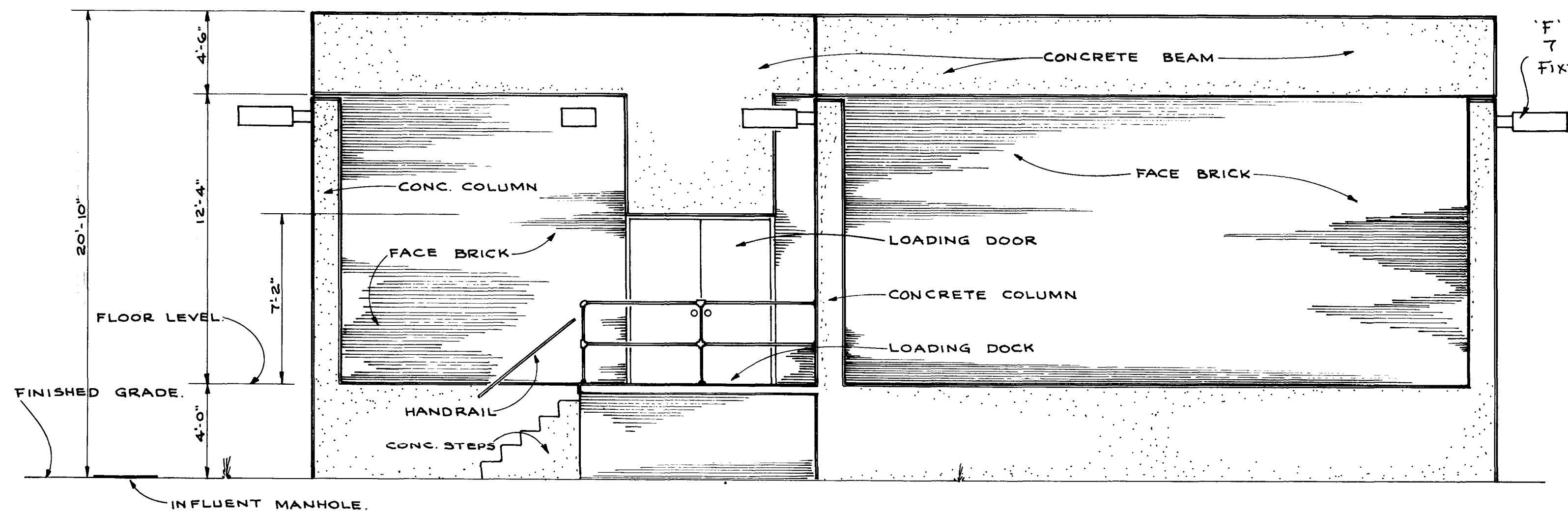
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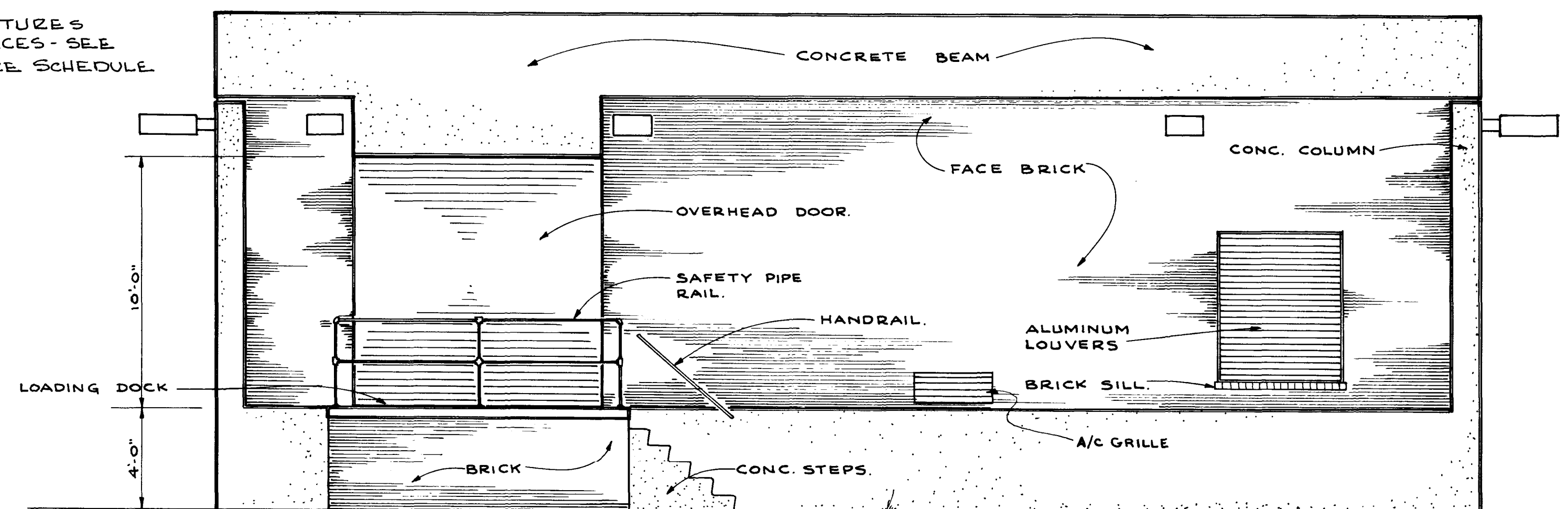
SUBMITTED BY: <i>James W. Waitz</i> WAITZ & FRYE CONSULTING ENGINEERS, INC. 1000 N.W. 10th Ave., Suite 100 Fort Lauderdale, FL 33311				CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM SEWAGE PUMPING STATION NORTH DISTRICT PART I				WAITZ & FRYE CONSULTING ENGINEERS, INC. SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT DETAILED BY: J.W.M. SCALE: _____ DATE: _____ CHECKED BY: S.H.				TURTLE CREEK PUMPING STATION OUTDOOR LIGHTING, PAVING & DRAINAGE PLAN.			
NO.	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE	CONTR. NO.	JS-41.1	PROJ. NO.		SHEET NO.	28	OF	65
1	ADDED DIMENSIONS & CONDUITS	J.W.M.	4-17-79	2	REV. SWITCH CUBICLE LOCATION	J.W.M.	7-14-79								
2	ADDED GRASSING NOTE	J.W.M.	7-14-79												
SUBMITTAL				APPROVAL											



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



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



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

12029

AS BUILT
DEC. 1981

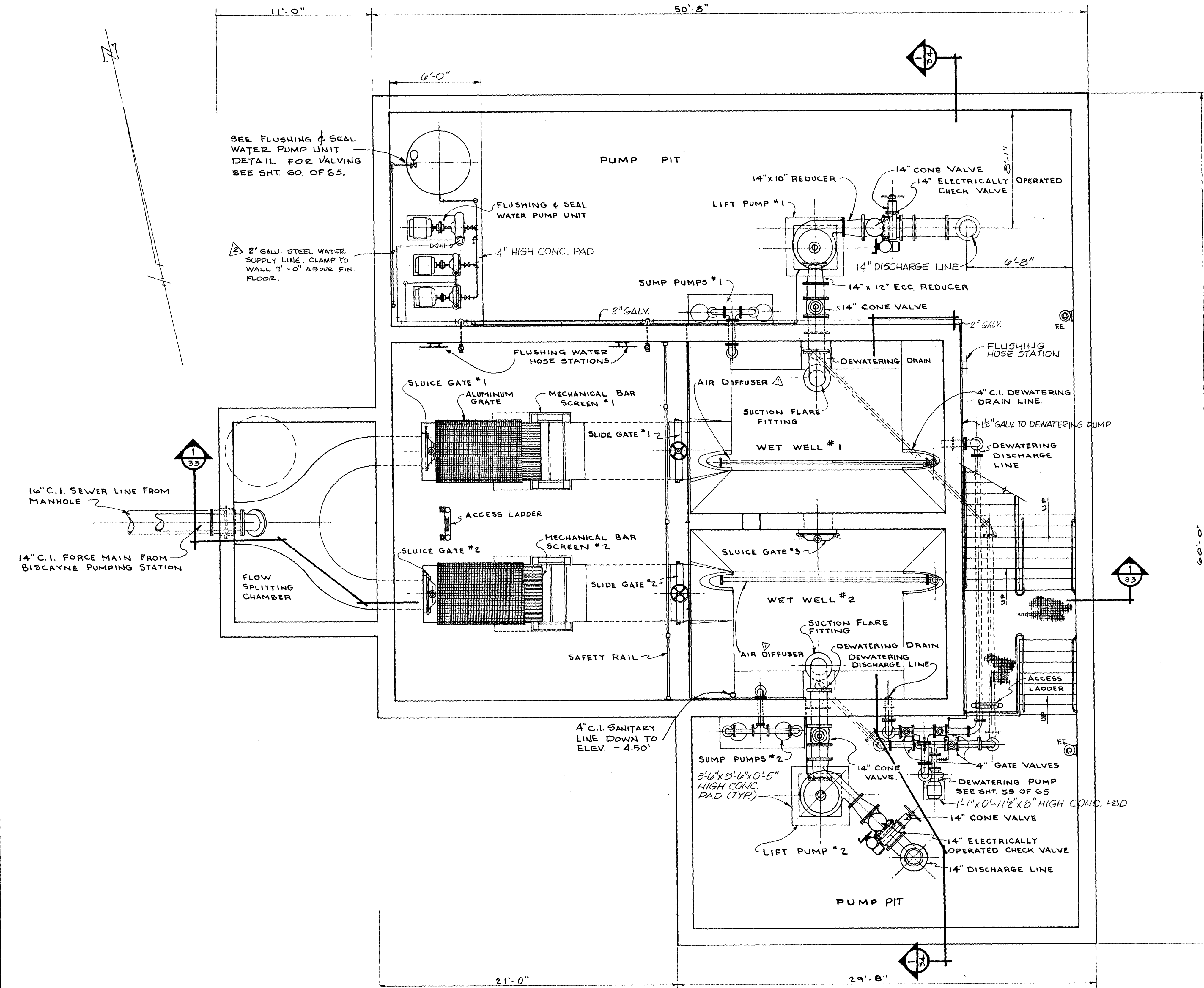
SUBMITTED BY: <i>Sumner Waitz</i>		APPROVED BY: <i>[Signature]</i>	
REG. ENGR. FLA. NO. 7694 DATE 7-15-74		REG. ENGR. FLA. NO. 7694 DATE 7-15-74	
WAITZ & FRYE CONSULTING ENGINEERS, INC.		WAITZ & FRYE CONSULTING ENGINEERS, INC.	
APPROVAL: <i>[Signature]</i>		APPROVAL: <i>[Signature]</i>	
RECOMMENDED BY: <i>[Signature]</i>		RECOMMENDED BY: <i>[Signature]</i>	
REG. ENGR. FLA. NO. 9663 DATE 7-25-74		REG. ENGR. FLA. NO. 9663 DATE 7-25-74	
SVERDRUP & PARCEL AND ASSOCIATES, INC.		SVERDRUP & PARCEL AND ASSOCIATES, INC.	
BY: FIRM DATE S&P DATE PW DATE		BY: FIRM DATE S&P DATE PW DATE	
SUBMITTAL		APPROVAL	

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.
SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT
DETAILED BY: J.W.M. SCALE: DATE:
CHECKED BY: S.W. SCALE: DATE:

TURTLE CREEK PUMPING STATION
EXTERIOR ELEVATIONS

CONTR. NO. JS-41.1 PROJ. NO. SHEET NO. 29 OF 65



MECHANICAL FLOOR PLAN @ ELEV.- 2.00

SCALE 1/4" = 1'-0"

12030

AS BUILT
DEC. 1981

NO.	DESCRIPTION	BY	FIRM	DATE	SRP	DATE	PW	DATE
1	REV. WATER SUPPLY LINE TO FLUSH, SEAL WATER UNIT	J.W.M.	W.F.	7-6-79	G.E.G.	7-7-79	J.H.H.	7-11-79
2	RELOCATED AIR DIFFUSERS, ADDED 1 1/2" FLUSHING WATER SUPPLY LINE	J.W.M.	W.F.	7-14-79	G.E.G.	7-22-79	J.H.H.	8-22-79
REVISIONS								
SUBMITTAL				APPROVAL				

SUBMITTED BY: *Sumner Waitz*
REG. ENGR. FLA. NO. 7694 DATE 7-15-74
WAITZ & FRY CONSULTING ENGINEERS, INC.
APPROVED BY: *Richard Sverdrup*
REG. ENGR. FLA. NO. 9623 DATE 7-25-74
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

APPROVED BY: _____
REG. ENGR. FLA. NO. _____ DATE _____
WATER AND SEWER DIVISION
AUTHORIZED BY: _____
REG. ENGR. FLA. NO. _____ DATE 7-17-79
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRY CONSULTING ENGINEERS, INC.
SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT
DETAILED BY: J.W.M. SCALE: _____ DATE: _____
CHECKED BY: S.W.

TURTLE CREEK PUMPING STATION
MECHANICAL FLOOR PLAN
CONTR. NO. JS-41.1 PROJ. NO. _____ SHEET NO. 30 OF 65

MECHANICAL FLOOR PLAN @ ELEV. 10.50'

12032

AS BUILT
DEC. 1981

NO.	DESCRIPTION	BY	FIRM	DATE	SR	DATE	PW	DATE
1	REV. WATER SUPPLY LINE ROUTING.	JWM	W&F	7-6-74	GEG	7-31-74	JHH	7-1-74
2	ADDED NOTE & OVERHEAD TROLLEY & HOIST	JWM	W&F	4-17-79	DEC	4-19	JHH	4-23-79
3	REVISED ELECT. SWITCHGEAR INDICATIONS TO CORRESPOND TO TWO SPEED MOTORS	JWM	W&F	7-10-79	7-10	7-22-79	JHH	7-22-79
4	ADDED WATER SUPPLY FOR DOWATERING PUMP	JWM	W&F	7-10-79	7-10	7-22-79	JHH	7-22-79
5	REVISED AIR LINE PIPING TO AIR DIFFUSERS. ADDED BACKFLOW PREV. ASSY. & REV. HOSE BIBB NOTING.	JWM	W&F	7-10-79	7-10	7-22-79	JHH	7-22-79
6	REMOVED WET WELL ACCESS HATCH	JWM	W&F	3-2-78	3-2	3-22-79	JHH	3-22-79

SUBMITTED BY: *James Waitz*
7614 DATE 7-15-74
WAITZ & FRYE CONSULTING ENGINEERS, INC.
APPROVAL
RECOMMENDED BY: *W. Frye*
9663 DATE 7-25-74
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: _____
DATE _____
REG. ENGR. FLA. NO. _____
WATER AND SEWER DIVISION
AUTHORIZED BY: _____
DATE _____
REG. ENGR. FLA. NO. _____
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.

SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT

DETAILED BY: J.W.M.
CHECKED BY: S.W.

SCALE

DATE

TURTLE CREEK PUMPING STATION
MECHANICAL FLOOR PLAN

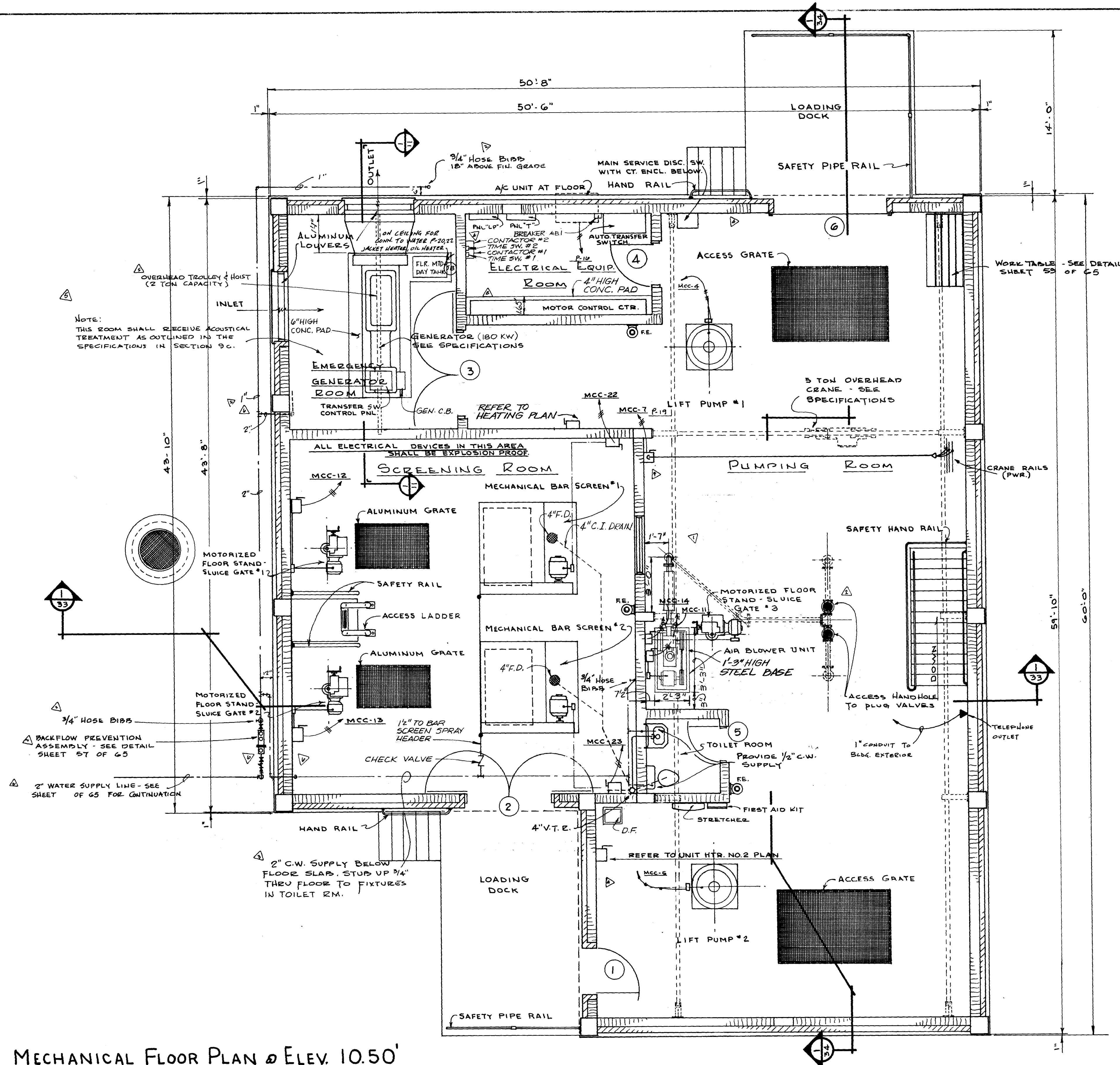
CONTR. NO. JS-41.1

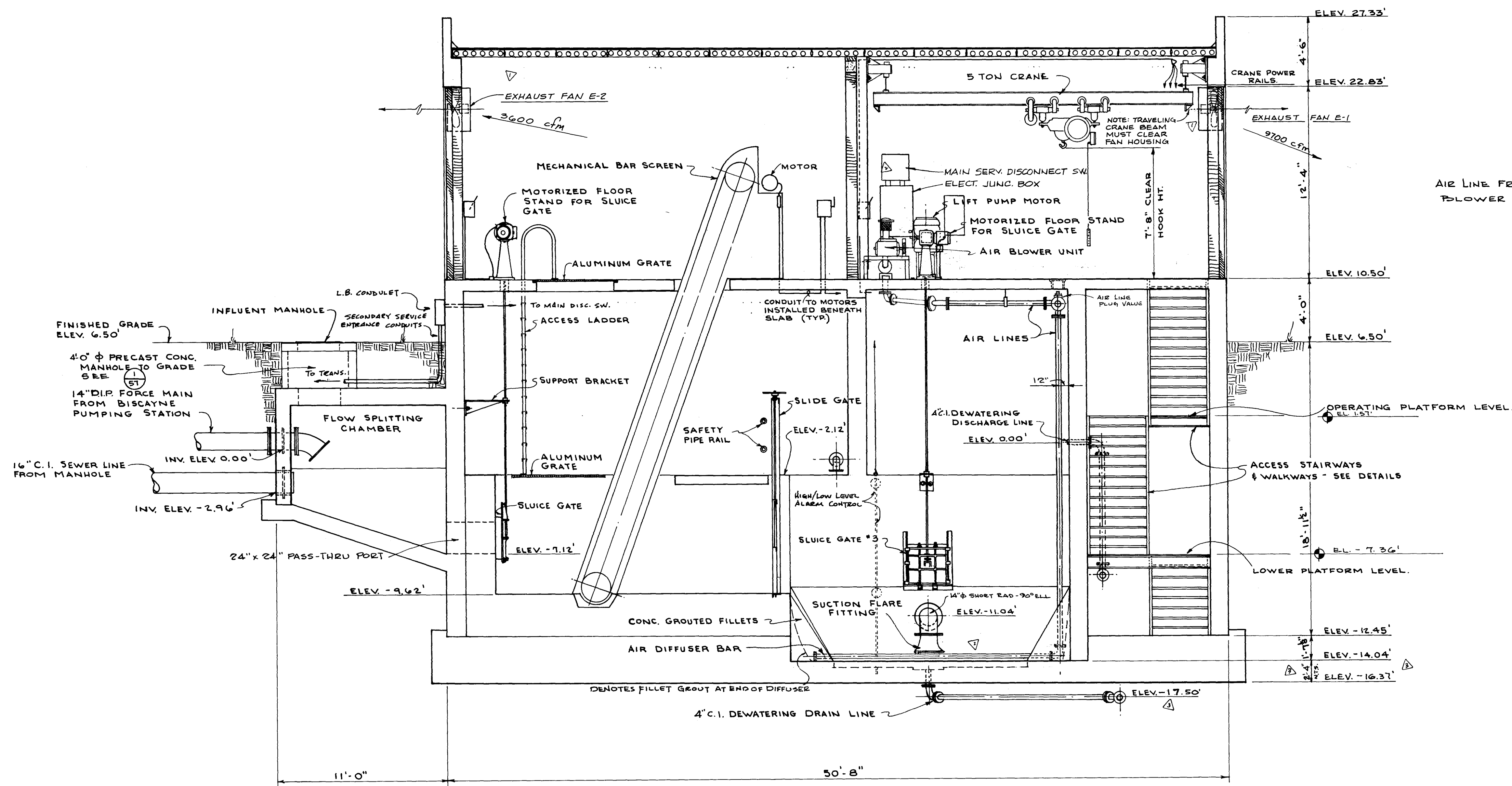
PROJ. NO.

SHEET NO. 32 OF 65

ELECTRICAL NOTE:

1. CONDUIT AND WIRE FOR SENSING DEVICES, FLOAT SWITCHES, LIMIT SWITCHES AND OTHER CONTROL CIRCUITS ARE NOT HEREIN SHOWN. REFER TO SHEET 50 OF 65 FOR DIAGRAMS.
2. TRANSFORMER "T" SHALL BE MOUNTED 9'-0" ABOVE FLOOR.





MECHANICAL CROSS - SECTION
SCALE 4" = 1'-0"

12033

AS BUILT
DEC. 1981

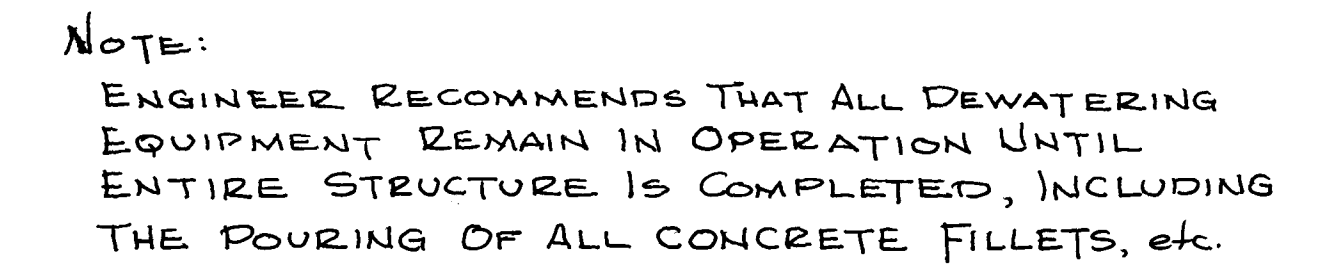
▶	REV. ELEV. OF BOT. OFF FLOOR SLAB & DEWATER. DRAIN LINE	JAM	WAF	7-6-79	DEC	7-31-79	LHH	7/1/79	SUBMITTED BY <i>James Watz</i>
▶	REVISED AIR DIFFUSER PIPING LOCATION & DELETED EXHAUST CLIPPING	JAM	WAF	7-14-79	DEC	7-22-79	LHH	7-22-79	REG. ENGR. P.L.A. NO. <i>7094</i> DATE <i>7-25-79</i>
▶	REVISED EXHAUST FAN LOCATIONS	JAM	WAF	7-27-79	DEC	7-27-79	LHH	7-27-79	WATZ & FRYE CONSULTING ENGINEERS, INC.
									APPROVAL
									RECOMMENDATION BY <i>W. L. H. 7/27/79</i>
NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	FW	DATE	REG. ENGR. P.L.A. NO. <i>7003</i> DATE <i>7-22-79</i>
	REVISIONS		SUBMITTAL			APPROVAL			SVERDRUP & PARCEL AND ASSOCIATES, INC.

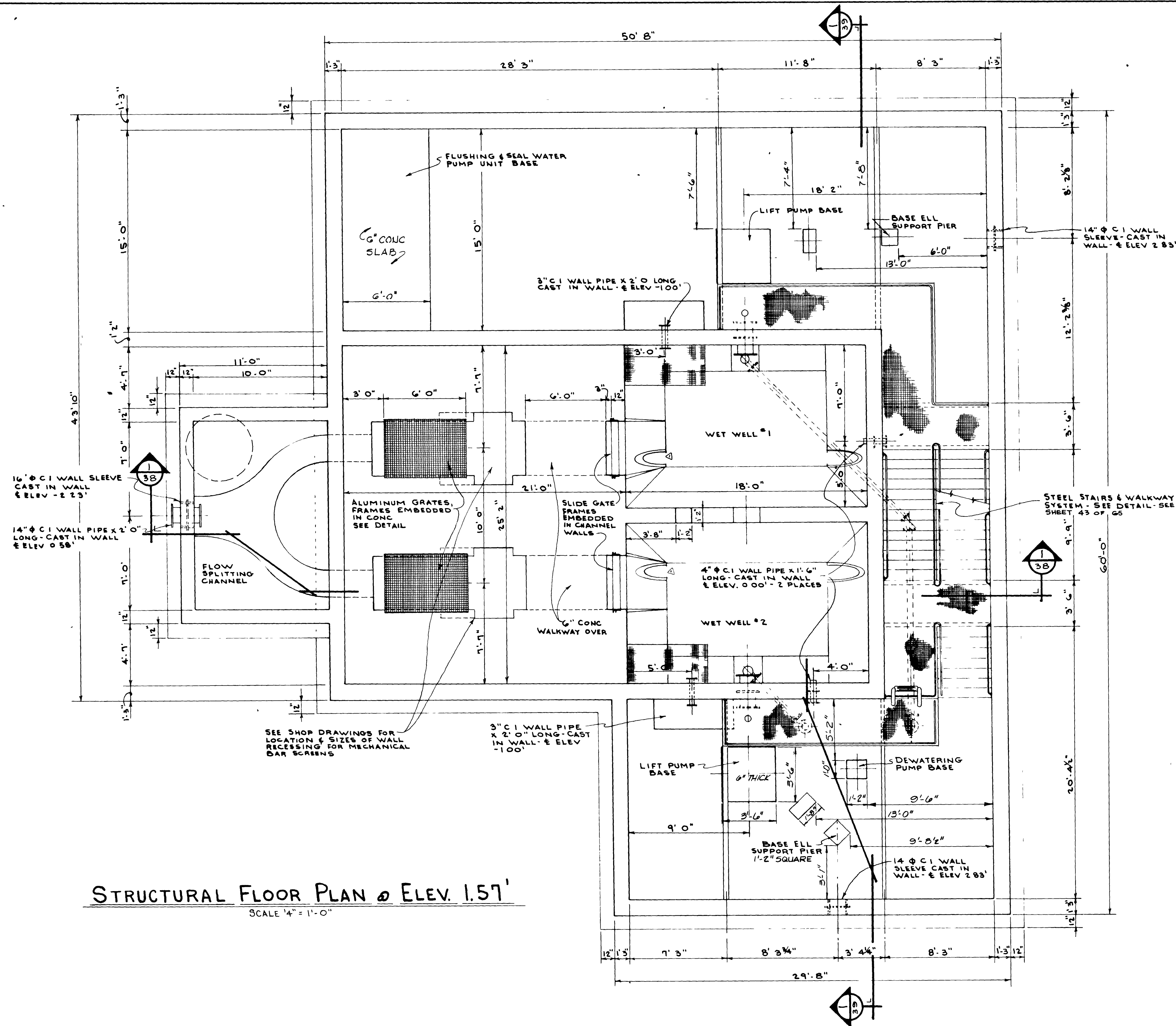
SUBMITTED BY: *Summa Watz*
REG. ENGR. FLA. NO. 7094 DATE 7-15-74
WAITZ & FRYE CONSULTING ENGINEERS, INC.
APPROVED BY: *[Signature]*
REG. ENGR. FLA. NO. 9003 DATE 7-25-74
SVERDRUP & PARCEL AND ASSOCIATES, INC.

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.
SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT
DETAILED BY: J.W.M. SCALE DATE
CHECKED BY: S.W.

TURTLE CREEK PUMPING STATION
MECHANICAL CROSS-SECTION
CONTR. NO. JS-41.1 PROJ. NO. SHEET NO. 33 OF 65





STRUCTURAL FLOOR PLAN @ ELEV. 1.57'
SCALE 1/4" = 1'-0"

12036

AS BUILT
DEC. 1981

NO.	DESCRIPTION	BY	FIRM	DATE	SAP	DATE	PN	DATE
1	REV. FILLETS IN WET WELLS	JWM	WFF	7-18-79	3-22-79	JHM	3-22-79	
	REVISIONS							

SUBMITTED BY	<i>James W. Waitz</i>
REG. ENGR. FLA. NO.	7634
DATE	1-15-74
WAITZ & FRYE CONSULTING ENGINEERS, INC.	
APPROVED BY	<i>H. Sverdrup</i>
REG. ENGR. FLA. NO.	9663
DATE	7-25-74
SVERDRUP & PARCEL AND ASSOCIATES, INC.	

APPROVED BY	
REG. ENGR. FLA. NO.	
DATE	
OFFICE OF DIRECTOR OF PUBLIC WORKS	
CITY OF JACKSONVILLE, FLORIDA	

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.

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

DETAILED BY	JWM	SCALE		DATE	
CHECKED BY	H.F.				

TURTLE CREEK PUMPING STATION
STRUCTURAL FLOOR PLAN

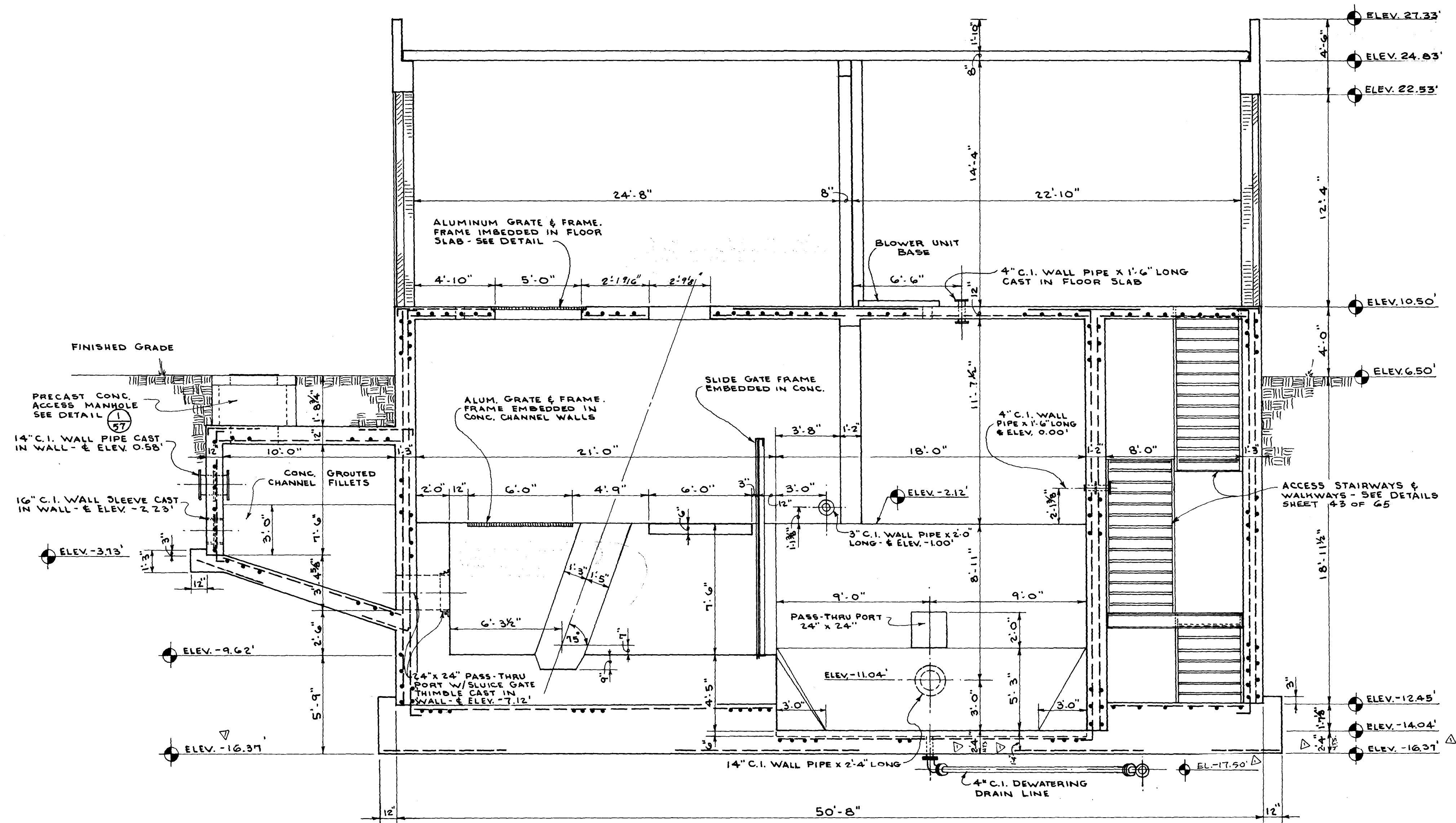
CONTR. NO. JS-41.1 PROJ. NO. SHEET NO. 36 OF 65

12037

AS BUILT
DEC 1981

TURTLE CREEK PUMPING STATION
STRUCTURAL FLOOR PLAN

										SUBMITTED BY <u>James Watz</u> REG ENGR FLA NO <u>1694</u> DATE <u>1-15-74</u> WAITZ & FRYE CONSULTING ENGINEERS, INC.		APPROVED BY <u>---</u> REG ENGR FLA NO <u>---</u> DATE <u>---</u> WAITZ & FRYE CONSULTING ENGINEERS, INC.		CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM SEWAGE PUMPING STATION NORTH DISTRICT PART I		WAITZ & FRYE CONSULTING ENGINEERS, INC.				TURTLE CREEK PUMPING STATION			
APPROVED DIMENSION @ STAIRWELL REMOVED WET WELL ACCESS DOOR										APPROVAL RECOMMENDED BY <u>T. L. L. L.</u> REG ENGR FLA NO <u>9003</u> DATE <u>7-25-74</u> SVERDRUP & PARCEL AND ASSOCIATES INC.		AUTHORIZED BY <u>---</u> REG ENGR FLA NO <u>---</u> DATE <u>---</u> OFFICE OF DIRECTOR, P. B. WORKS CITY OF JACKSONVILLE FLORIDA				SVERDRUP & PARCEL AND ASSOCIATES, Inc. -- GENERAL CONSULTANT				STRUCTURAL FLOOR PLAN			
NO DESCRIPTION REVISIONS										BY FIRM DATE S&P DATE PW DATE SUBMITTAL APPROVAL				DETAILED BY <u>JWM</u> <u>ASH</u> <u>HEF</u>				SCALE _____ DATE _____		CONTR NO JS-41.1 PROJ NO _____		SHEET NO 37 OF 65	



STRUCTURAL CROSS SECTION 38
 SCALE 1/4" = 1'-0"

12038

AS BUILT
 DEC. 1981

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.

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

DETAILED BY: **J.W.M.** SCALE: _____ DATE: _____
 CHECKED BY: **H.R.F.**

TURTLE CREEK PUMPING STATION
STRUCTURAL CROSS-SECTION

CONTR. NO. **JS-41.1** PROJ. NO. _____ SHEET NO. **38** OF **65**

NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
1	REVISED ELEVATIONS & DIMENSIONS	JWA	W&F	7/27/74	GEG	7/27/74	HH	7/27/74
REVISIONS		SUBMITTAL						
		APPROVAL						

SUBMITTED BY: *Sumner Waitz*
 REG. ENGR. FLA. NO. **7694** DATE **7-15-74**
 WAITZ & FRYE CONSULTING ENGINEERS, INC.
 APPROVAL
 RECOMMENDED BY: *H. R. Frye*
 REG. ENGR. FLA. NO. **9663** DATE **7-25-74**
 SVERDRUP & PARCEL AND ASSOCIATES, INC.

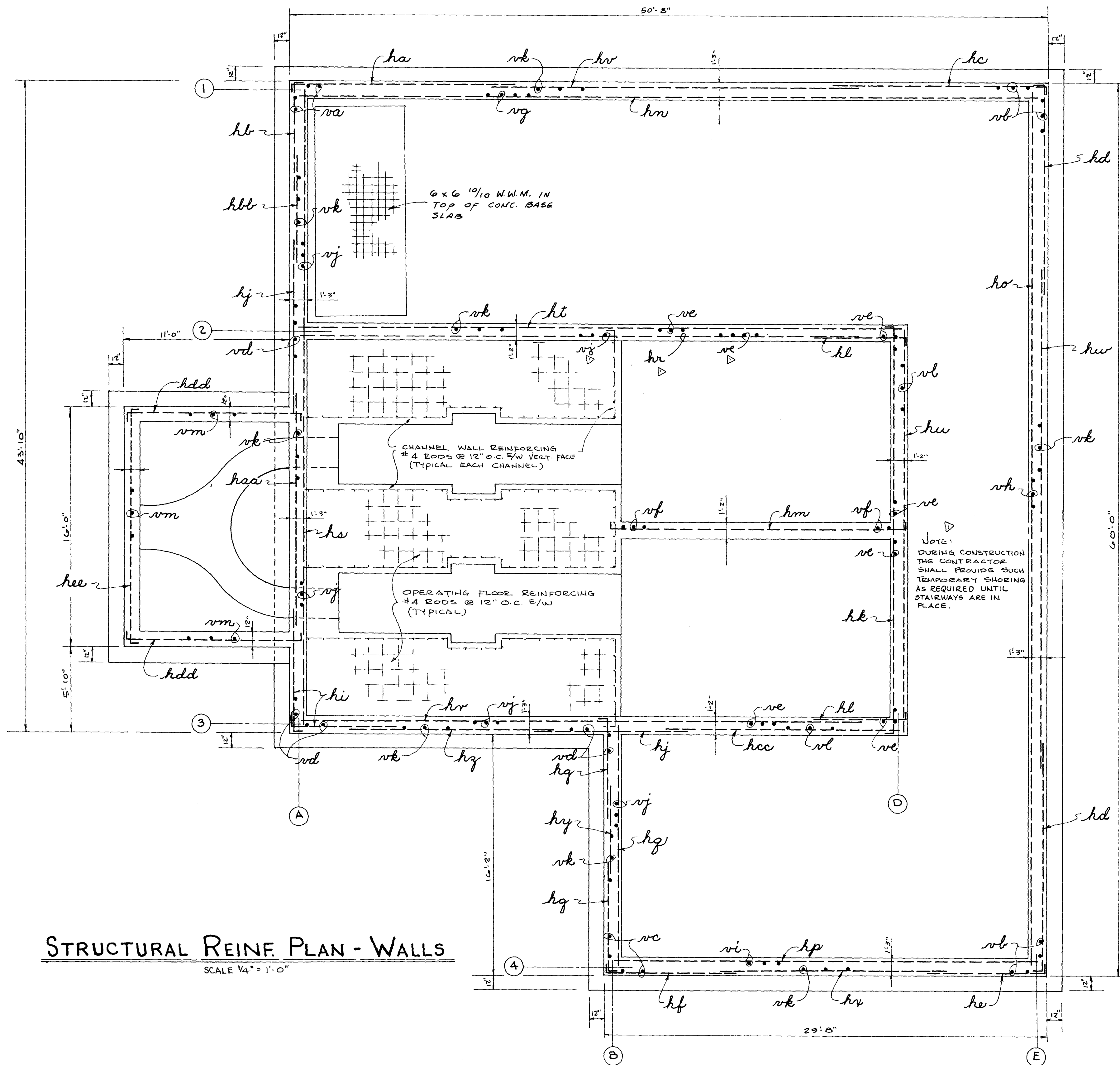
APPROVED BY: _____
 REG. ENGR. FLA. NO. _____ DATE _____
 WATER AND SEWER DIVISION
 AUTHORIZED BY: _____
 REG. ENGR. FLA. NO. _____ DATE _____
 OFFICE OF DIRECTOR OF PUBLIC WORKS
 CITY OF JACKSONVILLE, FLORIDA

 $\frac{1}{39}$

N

DEC. 1981

K&E 10 9155 P-73 MC 1708.



STRUCTURAL REINF. PLAN - WALLS
SCALE 1/4" = 1'-0"

WALL REINFORCING						
MARK	SIZE	SPACING	LENGTH	TYPE	LOCATION	REMARKS
ha	10	12	15-0	1-0 $\overline{14-0}$	HORIZ. IN CORNER (A) WALL (1) OUTSIDE FACE.	1-12" - 90° HOOK.
hb	10	12	6-9	1-0 $\overline{5-9}$	HORIZ. IN CORNER (A) WALL (A) OUTSIDE FACE.	DO
hc	10	9	15-0	1-0 $\overline{14-0}$	IN CORNER (E) WALL (1) OUTSIDE FACE.	DO
hd	10	9	17-4	1-0 $\overline{16-4}$	IN CORNER (E) & (B) WALL (E) OUTSIDE FACE.	DO
he	10	9	9-9	1-0 $\overline{8-9}$	IN CORNER (B) WALL (4) OUTSIDE FACE.	DO
hf	10	14	9-9	1-0 $\overline{8-9}$	IN CORNER (B) WALL (4) OUTSIDE FACE.	DO
hg	10	14	6-9	1-0 $\overline{5-9}$	IN CORNERS (B) & (B) WALL (E) OUTSIDE FACE.	DO
hi	8	10½	8-0	1-0 $\overline{7-0}$	IN CORNER (A) BOTH WALLS OUTSIDE FACE.	DO
hj	8	10½	10-8	STR.	AT INTERSECTIONS (A) & (B) AS SHOWN - OUTSIDE FACE.	
hk	6	9	29-2	1-0 $\overline{27-2}$ 1-0	INSIDE FACE WALL (D).	2-12" - 90° HOOKS.
hl	6	12	6-6	1-0 $\overline{5-6}$	IN CORNERS (B) & (B) AS SHOWN - INSIDE FACE.	1-12" - 90° HOOK.
hm	6	9	22-0	1-0 $\overline{20-0}$ 1-0	WALL BETWEEN WET WELLS.	2-12" - 90° HOOKS. NOTE: WALL IS NOT FULL HEIGHT.
hn	6	11½	49-2	STR.	INSIDE FACE WALL (1).	NOTE: ALL POSITIVE BARS EXT. 6" INTO INTERSECTING WALLS.
ho	5	9	58-6	STR.	INSIDE FACE WALL (E).	
hp	6	10	28-2	STR.	INSIDE FACE WALL (4).	
hq	5	10½	16-0	STR.	INSIDE FACE WALL (B).	
hr	5	9	36-8	STR.	INSIDE FACE WALL (2) & (3)	LAP 32 DIA. WITH BARS MK. <i>hl</i> .
hs	5	9	42-4	STR.	INSIDE FACE WALL (A).	
ht	6	12	40-0	STR.	WALL (2) FACE TOWARD WALL (1) - AS SHOWN.	
hu	6	12	26-2	STR.	WALL (D) FACE TOWARD WALL (E) - AS SHOWN.	
hv	4	10	24-10	STR.	OUTSIDE FACE WALL (1).	LAP 32 DIA. WITH BARS MK. <i>ha</i> & <i>hc</i> .
hw	4	10	29-2	STR.	OUTSIDE FACE WALL (E).	LAP 32 DIA. WITH BARS MK. <i>hd</i> .
hx	4	10	14-0	STR.	OUTSIDE FACE WALL (4).	LAP 32 DIA. WITH BARS MK. <i>he</i> & <i>hf</i> .
hy	4	10	7-10	STR.	OUTSIDE FACE WALL (B).	LAP 32 DIA. WITH BARS MK. <i>hg</i> .
hz	4	10	11-5	STR.	OUTSIDE FACE WALL (3).	LAP 32 DIA. WITH BARS MK. <i>hi</i> & <i>hj</i> .
haa	4	10	16-9	STR.	OUTSIDE FACE WALL (A).	LAP 32 DIA. WITH BARS MK. <i>he</i> & <i>hf</i> .
hbb	4	10	7-10	STR.	OUTSIDE FACE WALL (A).	LAP 32 DIA. WITH BARS MK. <i>hl</i> & <i>hj</i> .
hcc	6	12	15-1	STR.	WALL (2) FACE TOWARD WALL (4) - AS SHOWN.	
hdd	6	15	12-0	0-6 $\overline{11-0}$ 0-6	WALLS IN FLOW SPLITTING CHAMBER - AS SHOWN.	2-6" - 90° HOOKS. BARS IN SLOPING PORTION WILL VARY IN LENGTH.
hee	6	15	16-0	0-6 $\overline{15-0}$ 0-6	DO	2-6" - 90° HOOKS.
va	4	9	24-0	23-0 $\left[\begin{array}{l} 0-6 \\ 0-6 \end{array} \right]$	VERT. IN CORNER (A) - SPACERS FOR BARS MK. <i>ha</i> & <i>hb</i> .	2-6" - 90° HOOKS.
vb	5	12	24-0	23-0 $\left[\begin{array}{l} 0-6 \\ 0-6 \end{array} \right]$	VERT. IN CORNERS (E) & (B) SPACERS FOR <i>hc</i> , <i>hd</i> & <i>he</i> .	DO
vc	5	16	24-0	23-0 $\left[\begin{array}{l} 0-6 \\ 0-6 \end{array} \right]$	VERT. IN CORNER (B) - SPACERS FOR BARS MK. <i>hf</i> & <i>hg</i> .	DO
vd	4	9	24-0	23-0 $\left[\begin{array}{l} 0-6 \\ 0-6 \end{array} \right]$	VERT. IN CORNERS (A) & (B) INTERSECTION (A) - SPA. BARS MK. <i>hf</i> , <i>hg</i> , <i>hi</i> & <i>hj</i> .	DO
ve	4	9	25-7	24-7 $\left[\begin{array}{l} 0-6 \\ 0-6 \end{array} \right]$	VERT. IN DEEP SECT. WALLS (2) & (3) PLUS WALL (D) - SPA. FOR BARS MK. <i>hl</i> , <i>hl</i> , <i>hr</i> , <i>hl</i> & <i>hu</i> .	DO
vf	4	9	12-9	12-3 $\left[\begin{array}{l} 0-6 \end{array} \right]$	VERT. IN WALL BETWEEN WET WELLS - SPA. FOR BAR MK. <i>hm</i> .	1-6" - 90° HOOK.
vg	10	11	24-0	23-0 $\left[\begin{array}{l} 0-6 \\ 0-6 \end{array} \right]$	VERT. INSIDE FACE WALL (1) - SPA. FOR BARS MK. <i>hn</i> .	2-6" - 90° HOOKS.
vh	10	10½	24-0	23-0 $\left[\begin{array}{l} 0-6 \\ 0-6 \end{array} \right]$	VERT. INSIDE FACE WALL (E) - SPA. FOR BARS MK. <i>ho</i> .	DO
vi	8	12	24-0	23-0 $\left[\begin{array}{l} 0-6 \\ 0-6 \end{array} \right]$	VERT. INSIDE FACE WALL (4) - SPA. FOR BARS MK. <i>hp</i> .	DO
vj	5	9	24-0	23-0 $\left[\begin{array}{l} 0-6 \\ 0-6 \end{array} \right]$	VERT. INSIDE FACE WALLS (A) & (B) & (2) & (3) PLUS (A) & (B) - SPA. FOR BARS MK. <i>hg</i> , <i>hr</i> & <i>hs</i> .	DO
vk	4	16	22-1	STR.	VERT. - OUTSIDE FACES OF ALL WALLS - SPA. FOR BARS MK. <i>ht</i> , <i>hu</i> , <i>hv</i> , <i>hw</i> , <i>hx</i> , <i>hy</i> , <i>hz</i> , <i>haa</i> , <i>hbb</i> .	
vl	4	9	23-8	STR.	DEEP SECT. - SPACERS FOR BARS MK. <i>hvt</i> & <i>hcc</i> .	
vm	4	16	VARIES	VARIES $\left[\begin{array}{l} 0-6 \\ 0-6 \end{array} \right]$	SPACER BARS IN FLOW SPLITTING CHAMBER.	2-6" - 90° HOOKS INTO TOP & BOT. SLAB.

NOTE - REINF. PREFIXED *h* = HORIZONTAL
v = VERTICAL

12040 DEC. 1981
AS BUILT

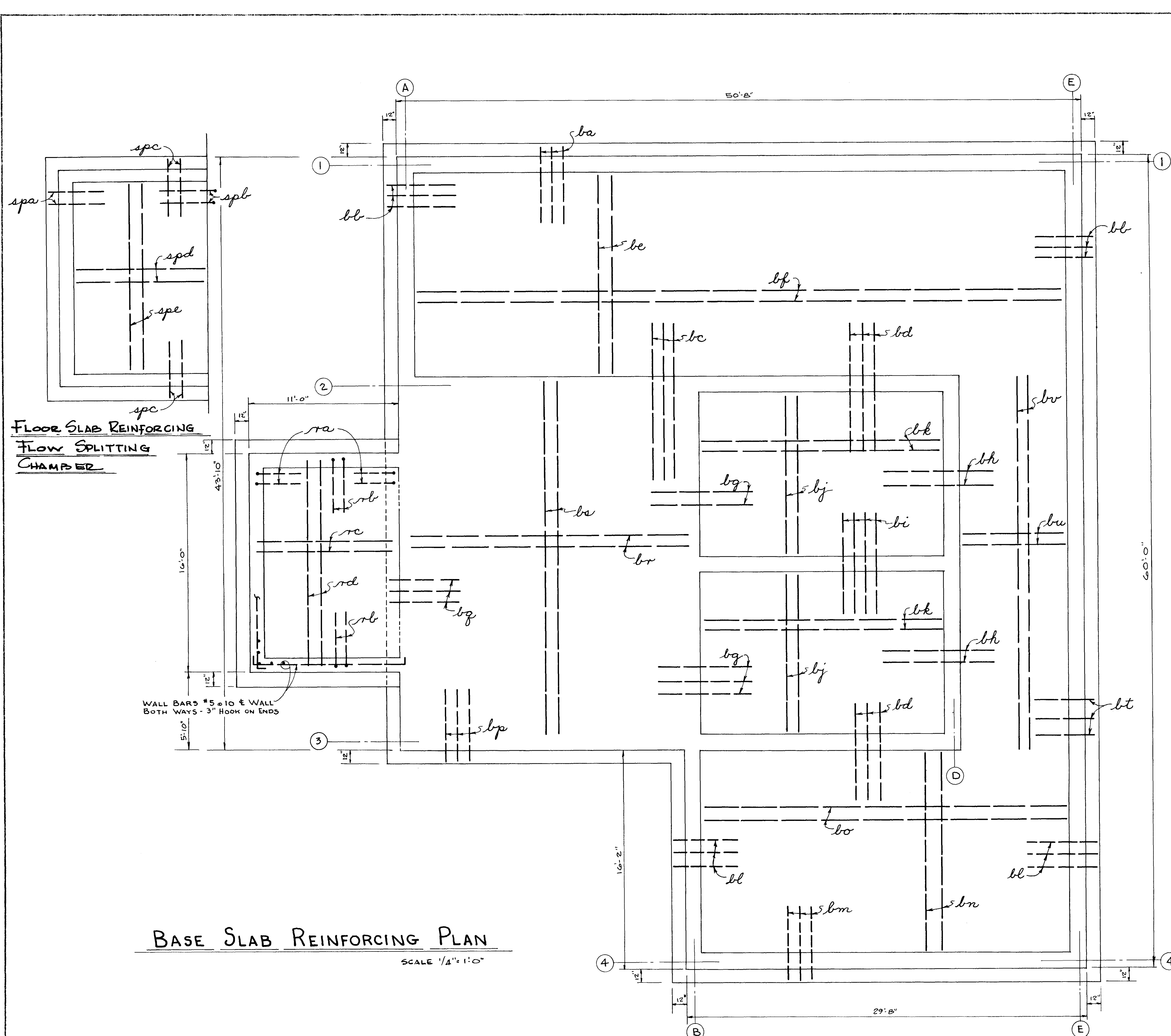
CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
SEWAGE PUMPING STATION
NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.

SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT
DETAILED BY: ASH
CHECKED BY: HRF.

TURTLE CREEK PUMPING STATION
STRUCTURAL REINFORCING PLAN

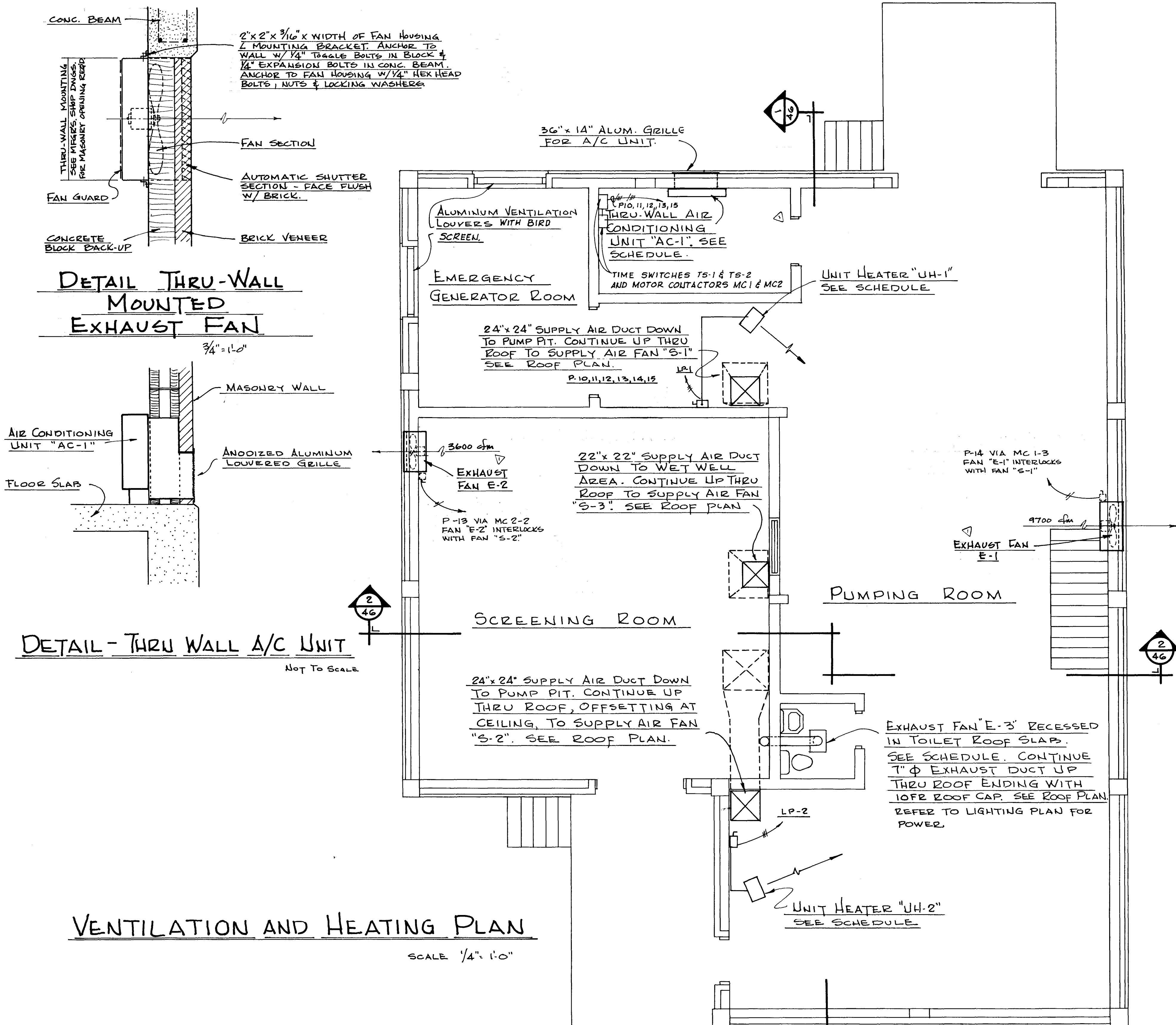
CONTR. NO. JS-41.1 PROJ. NO. SHEET NO. 40 OF 65



SLAB REINFORCING SCHEDULE							
	MARK	SIZE	SPACING	LENGTH	TYPE	LOCATION	REMARKS
SLAB A1-A2 & E1-E2	ba	5	8 1/2	5-5	STR.	BOTTOM SLAB UNDER WALL ①	
	bb	5	9	5-5	STR.	BOTTOM SLAB UNDER WALL ① & ②	
	bc	6	6	10-2	STR.	BOTTOM SLAB UNDER WALL ② - FROM ① TO ③	
	bd	6	6 1/2	7-11	STR.	BOTTOM SLAB UNDER WALL ② & ③ FROM ③ TO ④	3'-7" DIMENSION IS 4" WALL TO WET PIT.
	be	6	8	15-0	STR.	TOP SLAB - SHORT WAY.	
	bf	5	9 1/2	48-2	STR.	TOP SLAB - LONG WAY.	
SLAB B2-B3 & D2-D3	bg	6	5 1/2	10-8	STR.	BOTTOM SLAB - UNDER ③	
	bh	6	10	7-8	STR.	BOTTOM SLAB - UNDER ④	
	bi	6	6 1/2	7-2	STR.	BOTTOM SLAB UNDER WALL SEPARATING THE WET WELLS	
	bj	6	8 1/2	12-0	STR.	TOP SLAB - SHORT WAY.	
SLAB B3-B4 & E3-E4	bk	5	10	18-0	STR.	TOP SLAB - LONG WAY.	
	bl	5	14	5-5	STR.	BOTTOM SLAB UNDER WALLS ③ & ④	
	bm	5	9	5-5	STR.	BOTTOM SLAB UNDER WALL ④	
SLAB B4-B5 & E4-E5	bn	6	8 1/2	15-0	STR.	TOP SLAB - SHORT WAY.	
	bo	5	9 1/2	27-2	STR.	TOP SLAB - LONG WAY.	
	bp	5	9 1/2	8-2	STR.	BOTTOM SLAB UNDER WALL ③	
SLAB A2-A3 & B2-B3	bq	6	11	7-2	STR.	BOTTOM SLAB UNDER WALL ① FROM ② TO ③	
	br	6	7	20-9	STR.	TOP SLAB - SHORT WAY SPAN ② TO ③ - BETWEEN ① & ④	
	bs	5	6 1/2	25-2	STR.	TOP SLAB - LONG WAY.	
SLAB D2-D3 & E2-E3	bt	4	18	3-11	STR.	BOTTOM SLAB UNDER WALL ⑤ - BETWEEN ② & ③	
	bu	4	13	8-0	STR.	TOP SLAB - SHORT WAY.	
	bv	4	18	27-6	STR.	TOP SLAB - LONG WAY.	
FLOW SPLITTING CHAMBER ROOF SLAB	bw	4	12	3-6	STR.	TOP FLOW SPLITTING CHAMBER - ROOF OVER AS SHOWN - LONG	1-90° - 6" HOOK.
	bx	4	17	4-0	STR.	TOP FLOW SPLITTING CHAMBER - ROOF OVER AS SHOWN - SHORT	1-90° - 6" HOOK.
	by	5	12	11-0	STR.	BOTTOM ROOF SLAB - SHORT WAY.	
	bz	4	11	15-0	STR.	BOTTOM ROOF SLAB - LONG WAY.	
FLOW SPLITTING CHAMBER FLOOR SLAB	spa	5	13	4-3	STR.	BOTTOM SLAB UNDER OUTSIDE WALL.	
	spl	5	13	3-7	STR.	BOTTOM SLAB - HOOKED INTO WALL ①	1-90° - 6" HOOK.
	spc	4	12	5-3	STR.	BOTTOM SLAB UNDER SHORT END WALLS.	
	spd	5	8 1/2	10-6	STR.	TOP SLAB - SHORT WAY.	
	spe	5	12	14-0	STR.	TOP SLAB - LONG WAY.	

BASE SLAB REINFORCING PLAN
SCALE 1/4" = 1'-0"

SUBMITTED BY: <i>James Waitz</i> REG. ENGR. FLA. NO. 7694 DATE 7-15-74 WAITZ & FRYE CONSULTING ENGINEERS, INC. APPROVED BY: <i>[Signature]</i> RECOMMENDED BY: <i>[Signature]</i> REG. ENGR. FLA. NO. 9003 DATE 7-25-74 SVERDRUP & PARCEL AND ASSOCIATES, INC.		APPROVED BY: <i>[Signature]</i> REG. ENGR. FLA. NO. 10278 DATE 10-10-74 CITY OF JACKSONVILLE, FLORIDA		CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM SEWAGE PUMPING STATION NORTH DISTRICT PART I		WAITZ & FRYE CONSULTING ENGINEERS, INC. SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT DETAILED BY: <i>ASH</i> SCALE: _____ DATE: _____ CHECKED BY: <i>H.R.F.</i>		12042 AS BUILT DEC. 1981 TURTLE CREEK PUMPING STATION STRUCTURAL BASE SLAB REINFORCING PLAN CONTR. NO. JS-41.1 PROJ. NO. _____ SHEET NO. 42 OF 65	
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EQUIPMENT SCHEDULE				
MARK	DESCRIPTION	H.P.	K.W.	VOLTAGE
AC-1	THRU WALL A/C UNIT REMINGTON MODEL "EK-15" 14,100 BTU/HR. COOLING CAP	1 1/2 (COMP) 9.7 AMP	4.4 (HEATER)	240
S-1	ROOF MOUNTED SUPPLY AIR FAN COOLAIR MODEL KSBQ 30HF 4860 cfm @ 1/8" S.P. w/FILTER PACK	1/3		120
S-2	SAME AS ABOVE	1/3		120
S-3	ROOF MOUNTED SUPPLY AIR FAN COOLAIR MODEL KSBQ 24HF 3600 cfm @ 1/8" S.P. EXPLOSION-PROOF	1/3		120
E-1	WALL MOUNTED EXHAUST FAN AEROVENT MODEL 36L428 9700 cfm @ 1/4" S.P.	3/4		120
E-2	WALL MOUNTED EXHAUST FAN AEROVENT MODEL 24L222 3600 cfm @ 1/4" S.P. EXPLOSION PROOF	1/3		120
E-3	TOILET ROOM VENT FAN PENN "ZEPHYR" Z-10 375 cfm @ 1/8" S.P.	1/10		120
UH-1	ELECTRIC UNIT HEATER CHROMALOX MODEL "A" CAT. NO. LUH150		15.0	277 or 480
UH-2	ELECTRIC UNIT HEATER CHROMALOX MODEL "A" CAT. NO. LUH125		12.5	277 or 480

NOTE: PROVIDE PRE-FABRICATED 8" HIGH CURBS, DISCONNECT SWITCH, AND BIRD SCREENS FOR FANS S-1, S-2, S-3, & ALUMINUM CONSTRUCTION. PROVIDE SELF ACTING SHUTTERS AND GUARD FOR FANS E-1 & E-2 ONLY. STEEL SURFACES SHALL BE INCAPSULATED IN PVC OR HAVE EQUAL CORROSION PROTECTION COATING.

12045

AS BUILT
 DEC. 1981

NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
1	RELOCATED DOOR - ELECT. EQUIP. RM.	JWM	W&F	2-26-79	8/2	3-22-79	JWM	3-22-79
2	RELOCATED EXHAUST FANS. REVISED FAN EQUIP. SCHEDULE & NOTES	JWM	W&F	3-27-79	8/2	3-22-79	JWM	3-22-79
REVISIONS		SUBMITTAL		APPROVAL				

SUBMITTED BY: <i>James Waitz</i>	REG. ENGR. FLA. NO. 7694 DATE 7-15-74
WAITZ & FRYE CONSULTING ENGINEERS, INC.	
APPROVAL RECOMMENDED BY: <i>John Sverdrup</i>	REG. ENGR. FLA. NO. 9623 DATE 7-15-74
SVERDRUP & PARCEL AND ASSOCIATES, INC.	

APPROVED BY:	DATE
REG. ENGR. FLA. NO. _____	DATE _____
WATER AND SEWER DIVISION	
AUTHORIZED BY: _____	
REG. ENGR. FLA. NO. _____	DATE _____
OFFICE OF DIRECTOR OF PUBLIC WORKS	
CITY OF JACKSONVILLE, FLORIDA	

CITY OF JACKSONVILLE, FLORIDA
 SEWERAGE IMPROVEMENT PROGRAM
 SEWAGE PUMPING STATION
 NORTH DISTRICT PART I

WAITZ & FRYE CONSULTING ENGINEERS, INC.
 SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT
 DETAILED BY: **J.W.M.** SCALE _____ DATE _____
 CHECKED BY: **D.B.M.**

TURTLE CREEK PUMPING STATION
VENTILATION & HEATING PLAN

CONTR. NO. **JS-41.1** PROJ. NO. _____ SHEET NO. **45** OF **65**