

**CITY OF IMPERIAL
IMPERIAL COUNTY, CALIFORNIA**

**CONSTRUCTION PLANS FOR
WASTEWATER TREATMENT PLANT**

CLEAN WATER GRANT PROJECT NO. C-06-0882

WORK TO BE DONE

WORK CONSISTS OF CONSTRUCTION OF WASTEWATER TREATMENT FACILITY IMPROVEMENTS IN ACCORDANCE WITH THESE PLANS AND THE PROJECT SPECIFICATIONS.

ELEVATION DATUM

BENCH MARK - BR 101, SPIKE IN WEST SIDE OF POWER POLE #21810 AT THE SOUTHEAST CORNER OF 14TH STREET AND "N" STREET, ELEVATION = 933.09
BENCH MARK - COPPER NAIL IN TOP OF CONCRETE, PAINTED GREEN, AT THE SOUTH SIDE OF SEWAGE TREATMENT PLANT DIGESTER, ELEVATION = 937.83

PHONE NUMBERS

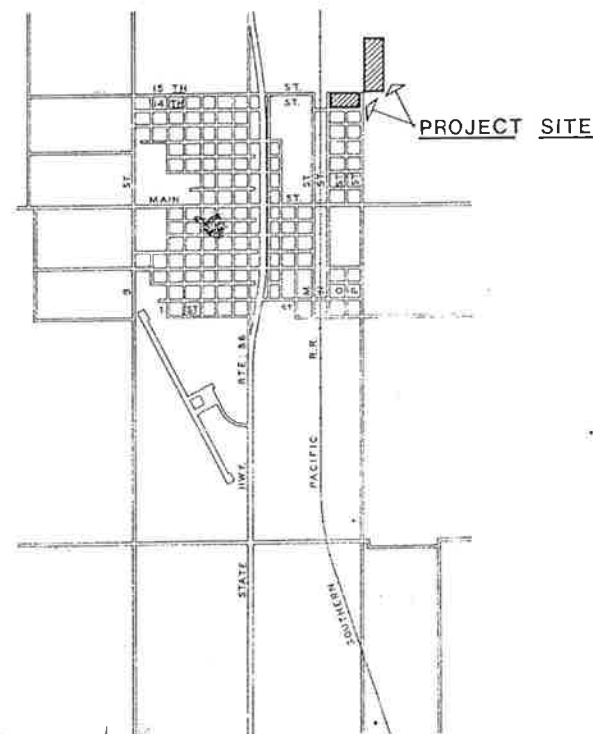
IMPERIAL IRRIGATION DISTRICT (714) 355-1117
PACIFIC TELEPHONE (714) 352-1101
CABLE LOCATING SERVICE (714) 352-0063
CITY OF IMPERIAL (714) 355-2155
WILSEY & HAM (714) 235-6471

NOTES

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.



LOCATION MAP
NO SCALE



VICINITY MAP
1" = 2000'

SHEET INDEX

CATEGORY	SHEET NO.	TITLE
GENERAL	G1	TITLE SHEET
GENERAL	G2	SITE PLAN
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GENERAL	G4	SITE GRADING NO. 2
GENERAL	G5	POND FENCE PLAN
GENERAL	G6	YARD PIPING NO. 1
GENERAL	G7	YARD PIPING NO. 2
GENERAL	G8	LANDSCAPE PLANTING PLAN
GENERAL	G9	LANDSCAPE IRRIGATION PLAN
GENERAL	G10	LANDSCAPE DETAILS
ARCHITECTURAL	A1	CONTROL BUILDING PLANS & ELEVATIONS
ARCHITECTURAL	A2	CONTROL BUILDING SECTIONS
ARCHITECTURAL	A3	CONTROL BUILDING STAIRS & ELEVATIONS
ARCHITECTURAL	A4	CONTROL BUILDING STAIRS & ELEVATIONS
STRUCTURAL	S1	PUMP STATION PLANS & ELEVATIONS
STRUCTURAL	S2	PUMP STATION FULL HEIGHT SECTIONS
STRUCTURAL	S3	GRIT CHANNEL PLANS & DETAILS
STRUCTURAL	S4	AERATION BASIN
STRUCTURAL	S5	AERATION BASIN EFFLUENT BOX & PUMP STATION
STRUCTURAL	S6	CLARIFIER NO. 3 PLANS & DETAILS
STRUCTURAL	S7	CLARIFIER NO. 3 DETAILS
STRUCTURAL	S8	CHLORINE CONTACT BASIN
STRUCTURAL	S9	CONTROL STRUCTURE PLANS & SECTIONS
PROCESS	P1	DESIGN DATA, PROCESS SCHEMATIC AND PROCESS PROFILE
PROCESS	P2	PUMP STATION PLAN
PROCESS	P3	PUMP STATION SECTIONS & DETAILS
PROCESS	P4	GRIT CHANNEL
PROCESS	P5	AERATION BASIN DETAILS & INTERMEDIATE PUMP STATION
PROCESS	P6	CLARIFIER PLAN & SECTIONS
PROCESS	P7	CLARIFIER DETAILS
PROCESS	P8	CHLORINE CONTACT BASIN-SEPTIC TANK DUMP
PROCESS	P9	CONTROL STRUCTURE
PROCESS	P10	SLUDGE DRYING BEDS
PROCESS	P11	SLUDGE HOLDING TANK PLAN
PROCESS	P12	SLUDGE HOLDING TANK SECTION & DETAILS
PROCESS	P13	INSTRUMENTATION & MISC. DETAILS
PROCESS	P14	METERING & BYPASS MANHOLES AND MISC. DETAILS
MECHANICAL	M1	CONTROL BUILDING PLUMBING & CLORINATION
MECHANICAL	M2	CONTROL BUILDING MECHANICAL
ELECTRICAL	E1	ELECTRICAL SITE PLAN
ELECTRICAL	E2	CONTROL BUILDING LIGHTING & POWER
ELECTRICAL	E3	PUMP STATION LIGHTING & POWER
ELECTRICAL	E4	SINGLE LINE & PANEL SCHEDULES
ELECTRICAL	E5	SINGLE LINE & PANEL SCHEDULES
ELECTRICAL	E6	DETAILS
ELECTRICAL	E7	DETAILS

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

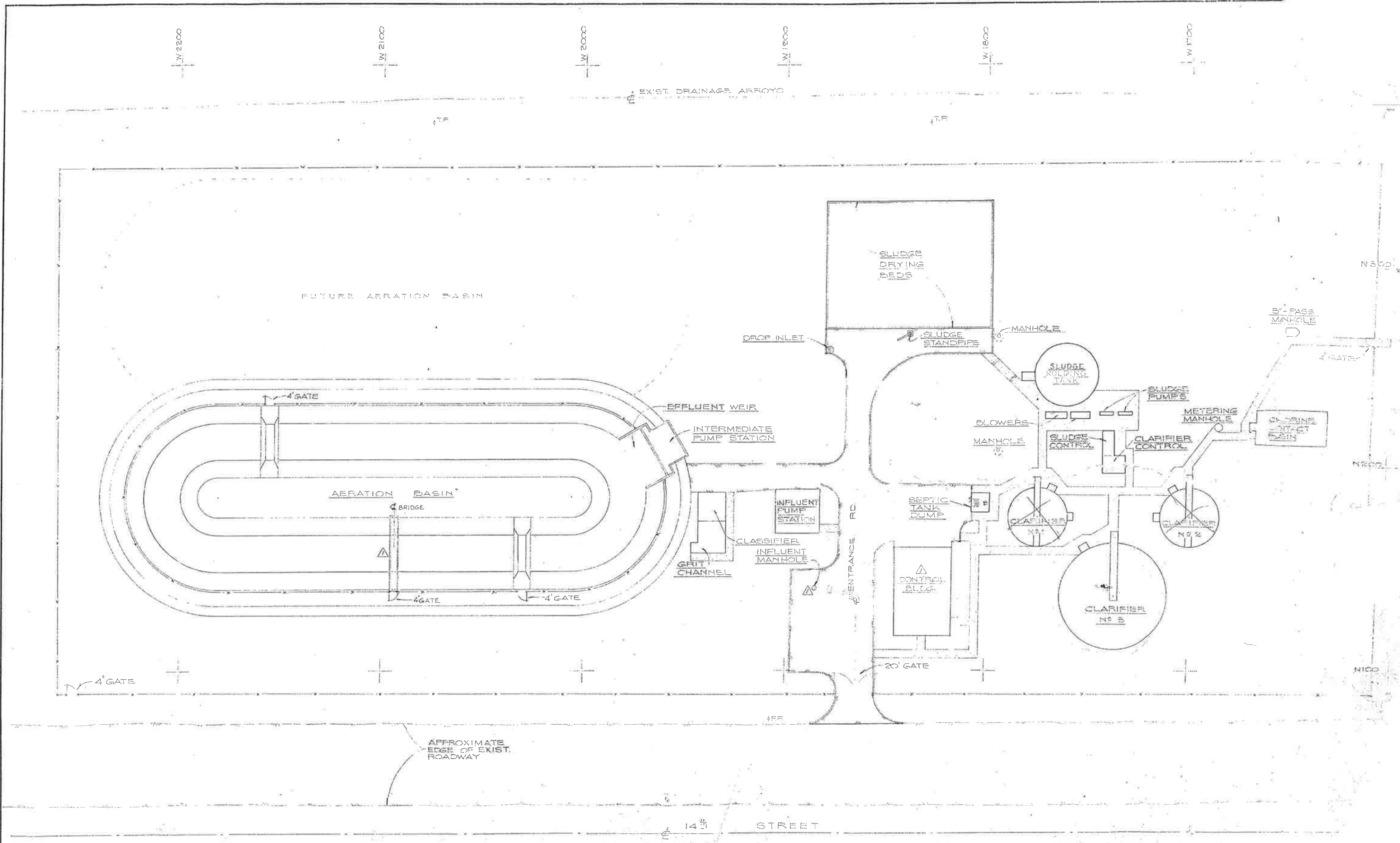
APPROVED
Joseph C. Ham

BY	DATE
Design	FNL 3/76
Drawn	RF 3/76
Chk	DCP 3/76
Est./Cont.	
Proj. Eng.	DCP 3/76
Spec. Eng.	
Tit. Eng.	

WILSEY & HAM

TITLE SHEET

G1
G10
6-1532-090
M.P.R. 19



CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

BY	DATE
Design	FNL 3/76
Drawn	RF 3/76
Chk.	DCP 3/76
Chk./Comm.	
Prof. Eng.	DCP 3/76
Site Eng.	
FIG. NO.	

WILSEY & HAM
 SITE PLAN

BY	DATE	REVISIONS

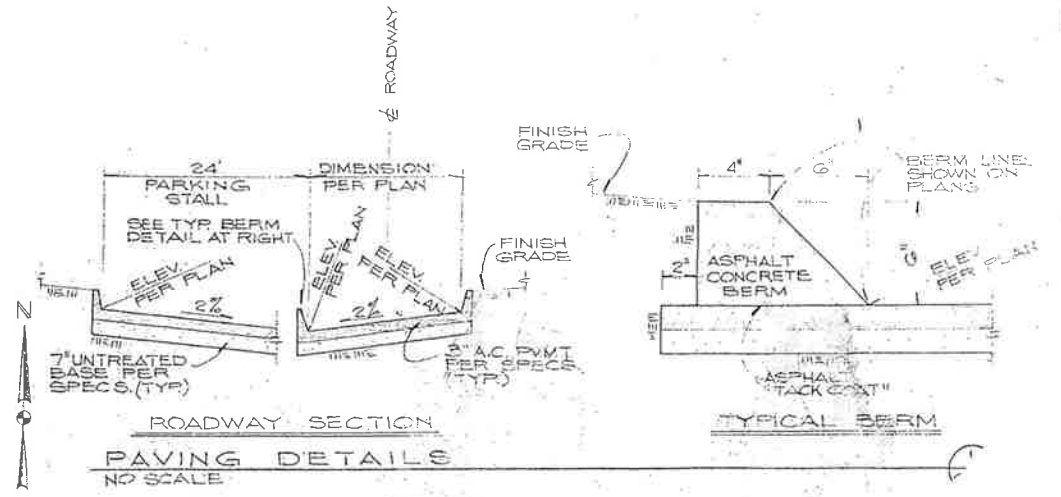
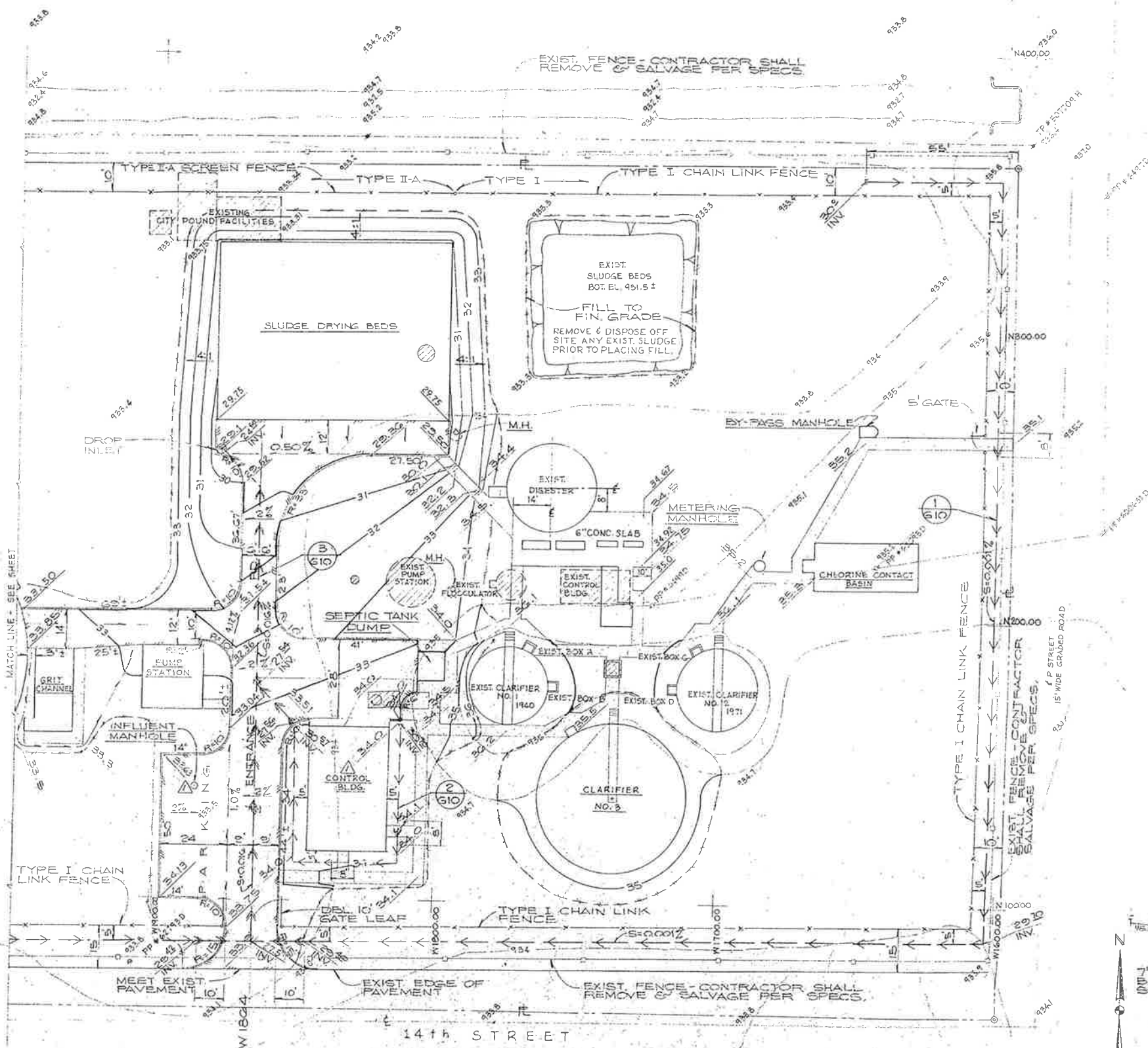
WORK TO BE DONE

IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THESE PLANTS AND SPECIFICATIONS:

DEMOLITION AND REPAIR		PER PLAN
GRADING		PER PLAN
CONCRETE		PER PLAN
ASPHALT		PER PLAN
APPROXIMATE DIVISION POINT		
DROP INLET		
A.C. PAVEMENT WITH REINFORCED BARS (SEE DETAIL)		
4" PEEL STRIPPING (4" THICK) (TYPICAL WIDTH)		
EXTERNAL FENCE (TO BE REMOVED)		
CHAIN LINK FENCE (TYPE I PER PLAN)		
GATE (WOOD) PER PLAN		
SUBDRAIN PIPE - PERFORATED VITRIFIED CLAY		
SUBDRAIN PIPE - VITRIFIED CLAY		

GENERAL NOTES

1. ALL GRADING, PAVING AND OTHER SITE IMPROVEMENTS SHOWN HEREON SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS.
2. CONTRACTOR SHALL PROPERLY GRADE AND EXCAVATED SURFACES TO PRODUCE PROPER DRAINAGE AND PROPER FLOW OF WATER.
3. CUT AND FILL SLOPES SHALL BE CUT AND FINISHED TO THE PROPER GRADE TO PRODUCE SMOOTH SURFACES AND UNIFORM CROSS SECTIONS.
4. ALL UNDERGRADING, LOTS, TIES, AND REPAIRS SHALL BE CONSTRUCTED BEFORE PAVING IS INITIATED.
5. CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLETING AND THE PROVISIONS OF THE STATE OF CALIFORNIA CONSTRUCTION SAFETY DIVISION.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE LOCATION AND DEPTHS OF ALL EXISTING AND NEW UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION TO PROTECT ALL UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION TO PROTECT ALL UTILITIES.
7. ALL ELEVATIONS SHOWN HEREON ARE FINISH SURFACE UNLESS OTHERWISE NOTE.



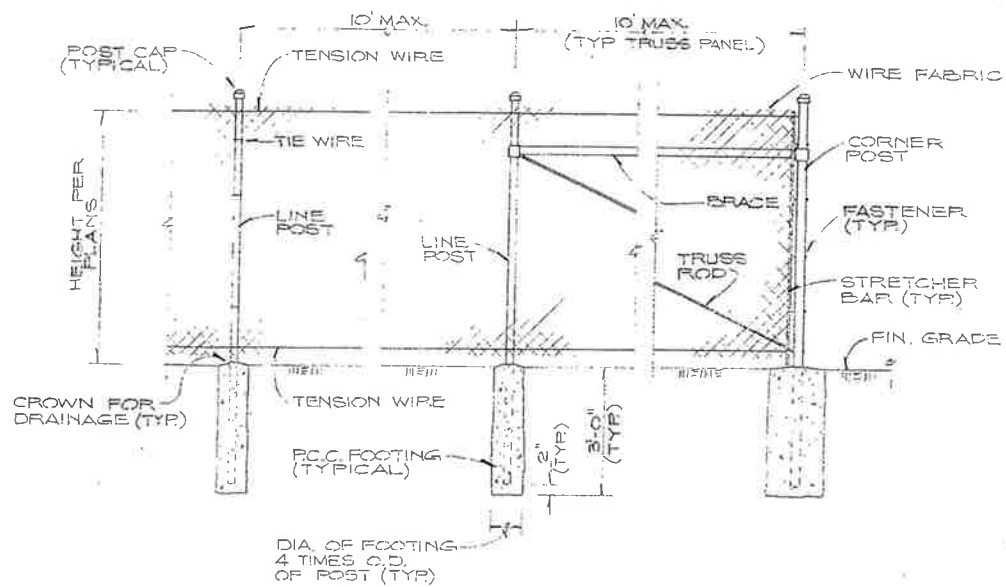
**CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT**

NO.	DATE	REVISIONS
1	11/22/76	As Built - Relocated Control Bldg. & Influent M.H.

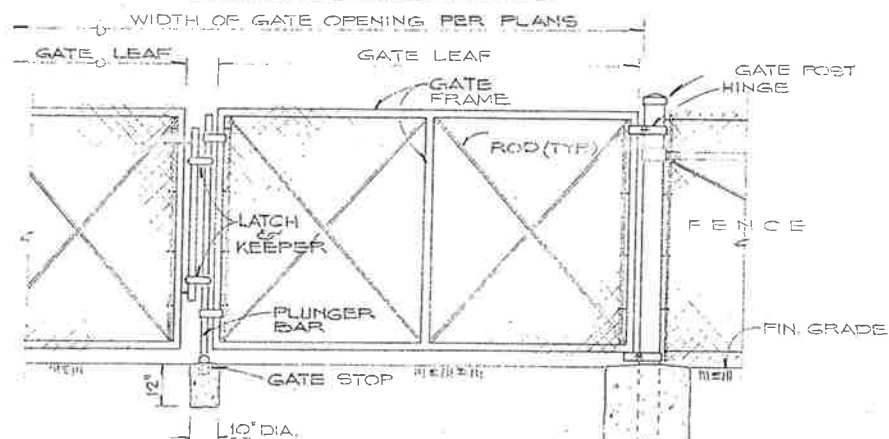
BY	DATE
Design	FNL 3/76
Drawn	RF 3/76
Chk.	DCP 3/76
Chk./Cont.	
Proj. Eng.	DCP 3/76
Dist. Eng.	
Proj. Mgr.	

WILSEY & HAM

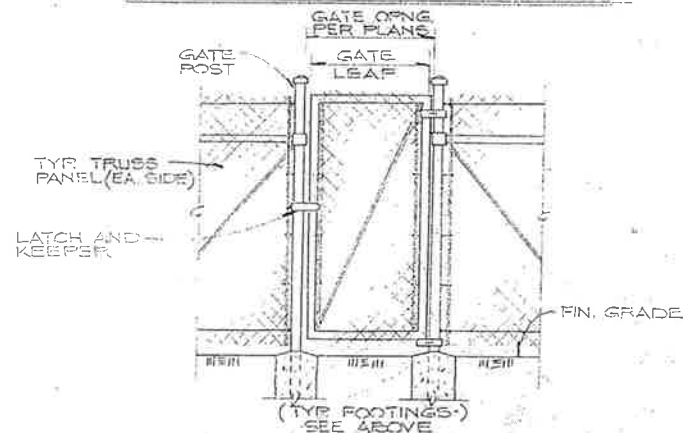
SITE GRADING NO. 1



ELEVATION - FENCE LINE

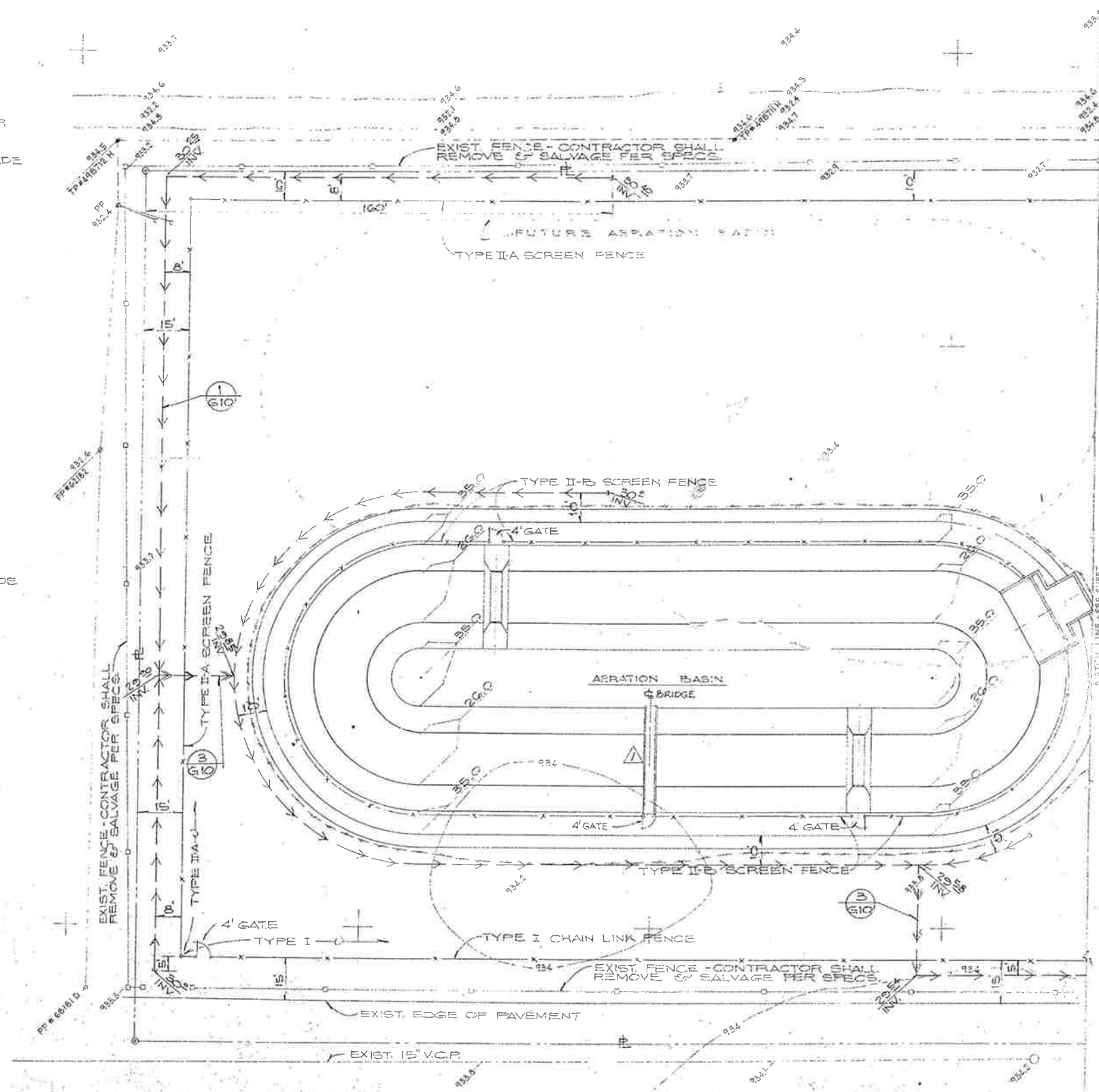


ELEVATION - DOUBLE SWING GATE



ELEVATION - PERSONNEL GATE

TYPE I FENCING DETAILS
NO SCALE



CITY OF IMPERIAL, CALIFORNIA

WASTEWATER TREATMENT PLANT

C-22606
APPROVED
Donna

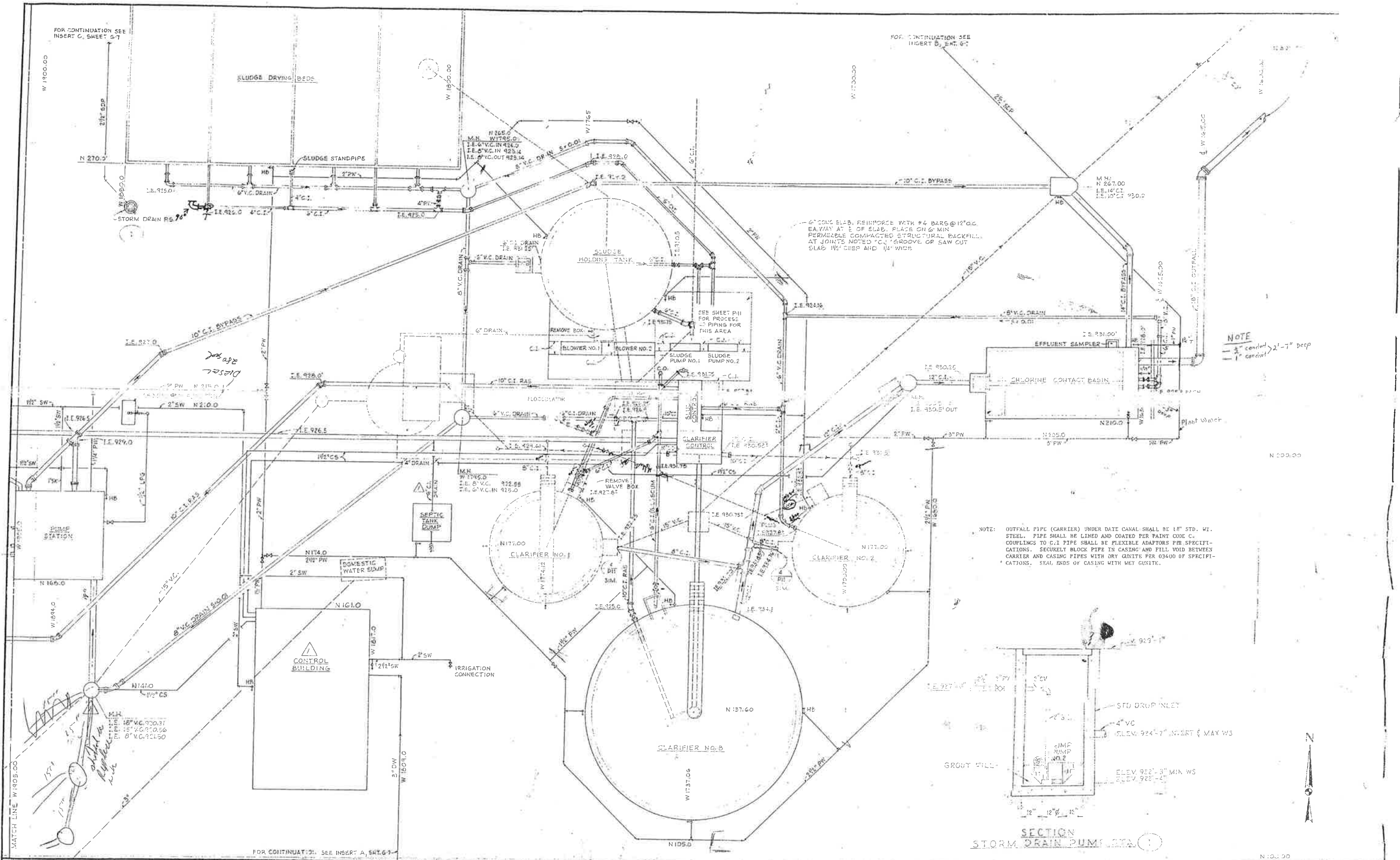
BY	DATE
Design	FNL 3/76
Drawn	RF 3/76
Chk.	DCP 3/76
Chk./Comm.	
Proj. Eng.	DCP 3/76
Dist. Eng.	
Fig. No.	

WILSEY & HAM

SITE GRADING NO. 2

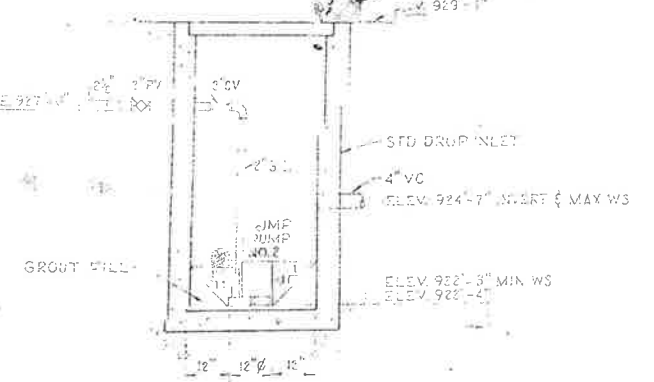
310
8-1892-0901-80
1" = 20'
MAR 1976

BY	DATE	REVISIONS
AM	3-26-76	As Built - Aeration Bridge



NOTE
 4" conduit 2'-7" deep
 1" conduit

NOTE: OUTFALL PIPE (CARRIER) UNDER DATE CANAL SHALL BE 18" STD. WT. STEEL. PIPE SHALL BE LINED AND COATED PER PAINT CODE C. COUPLINGS TO C.I. PIPE SHALL BE FLEXIBLE ADAPTORS PER SPECIFICATIONS. SECURELY BLOCK PIPE IN CASING AND FILL VOID BETWEEN CARRIER AND CASING PIPES WITH DRY GRANITE PER 03400 OF SPECIFICATIONS. SEAL ENDS OF CASING WITH WET GUNITE.



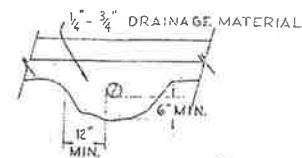
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

BY	DATE
Design	JLB 3/76
Drawn	FT 3/76
Chk./Const.	JLB 3/76
Engr. Exp.	JLB 3/76
Engr. Reg.	
Proj. No.	

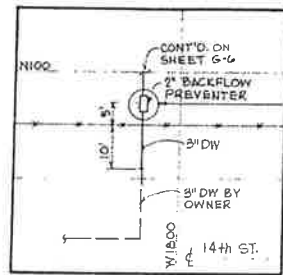
WILSEY & HAM
 YARD PIPING NO. 1

G6
G10
 DIV. NO.
 1-1852-0902155
 SCALE 1" = 10'-0"
 DATE MAR 1976

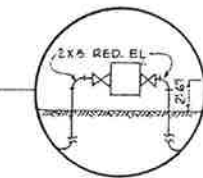
NO.	DATE	REVISIONS
1	3/76	As Shown - Re-located Control Bldg. & Influent M.H.
2	3/76	As Shown - Re-located Control Bldg. & Influent M.H.



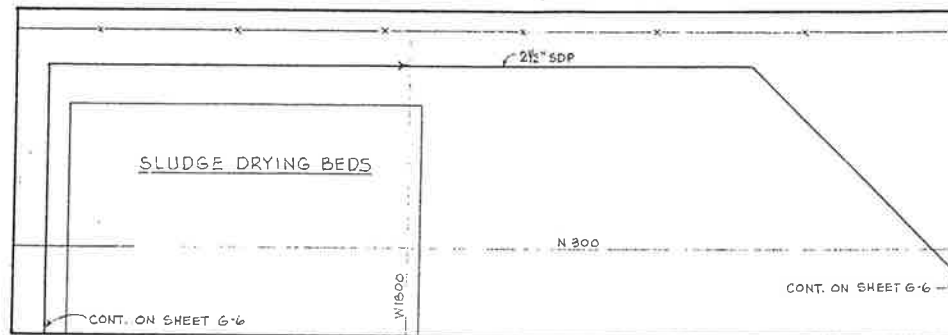
SECTION A



INSERT B
SCALE 1" = 20'



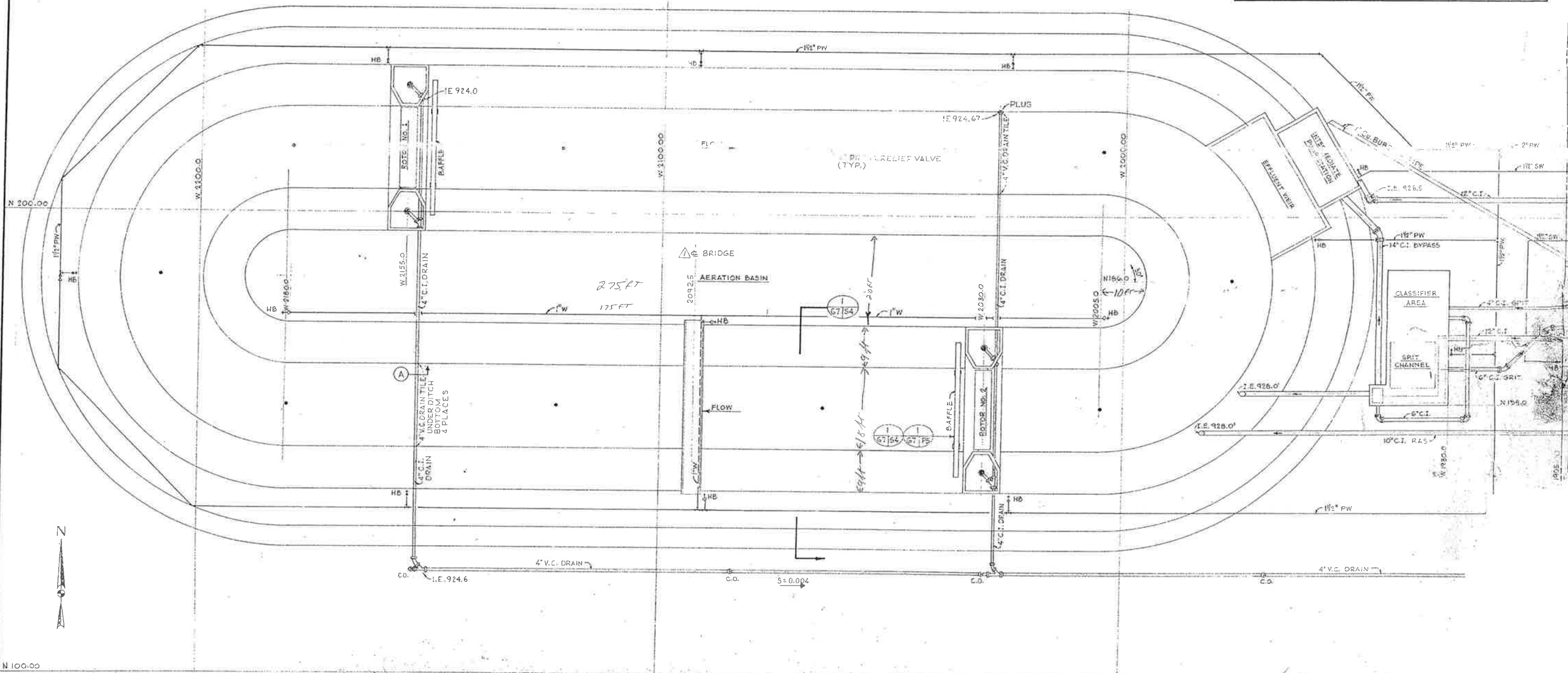
DETAIL
ELEV. BACKFLOW PREVENTER
NO SCALE



INSERT B
SCALE 1" = 20'

LEGEND			
SYMBOL	ABBRV.	DESCRIPTION	MATERIAL
	SDP	STORM DRAIN PUMPED	PVC
	C. I.	CAST IRON	
	C. S.	CHLORINE SOLUTION	PVC
	D.W.	DOMESTIC WATER	COPPER
	G.L.	GLASS LINED	
	I. E.	INVERT ELEVATION	
	L.P.G.	LIQUIFIED PETROLEUM GAS	STEEL
	M.H.	MANHOLE	
	P.W.	PLANT WATER	COPPER
	R.A.S.	RETURN ACTIVATED SLUDGE	
	S.W.	SEAL WATER	COPPER
	V.C.	VITRIFIED CLAY	
	C.O.	CLEAN OUT	
		EXISTING LINE	
		EXISTING STRUCTURE	
	HB *	HOSE BIBB	
	GV	GATE VALVE	
	PV	PLUG VALVE	
		3-WAY PLUG VALVE	
		FLANGED JOINT	
		MECHANICAL JOINT	

* SEE DETAIL 4/P12



BY	DATE	REVISIONS

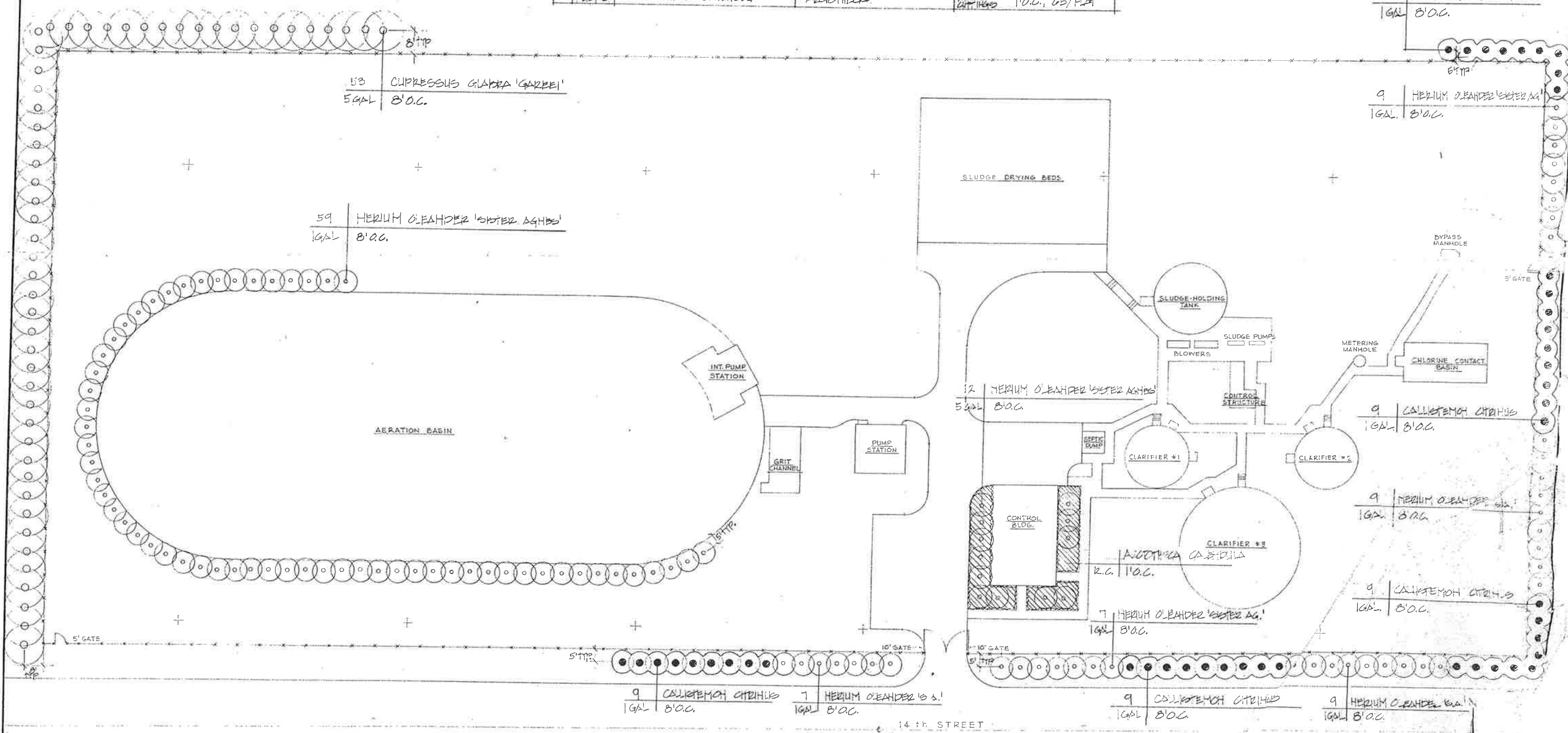
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

WILSEY & HAM:
YARD PIPING NO 2.

G-7

PLANT LIST	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
	45	CALLISTEMON CITRIHUS	LEMON BOTTLEBRUSH	5 GAL	8' O.C.
	53	CUPRESSUS GLABRA 'GARREI'	SMOOTH ARIZONIA CYPRESS	5 GAL	8' O.C.
	100	HELIUM OLEANDER 'SISTER AGNES'	OLEANDER	1 GAL	8' O.C.
	12	HELIUM OLEANDER 'SISTER AGNES'	OLEANDER	5 GAL	8' O.C.
	18 PLANTS	ARCTOTHECA CAESTOLIA	ARCTOTHECA	20" O.C. CUTTINGS	100% GS/PLANT

NOTES:
 1. QUANTITIES OF GROUND COVER AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR. QUANTITIES MAY BE ALTERED UPON WRITTEN APPROVAL OF ENGINEER.
 2. GROUND COVER SHALL NOT BE PLANTED IN ANY CHANNELS, WEIRS, OR PUMPS.
 3. GROUND COVER SHALL BE LOCATED A DISTANCE OF 6" FROM CURBS, WALKS, AND CONTROL BUILDING.



BY	DATE	REVISIONS

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

6-24-76
 WILSEY & HAM

BY DATE
 Design RAC 3/76
 Drawn RAC 3/76
 Ck. RAC 3/76
 Ck./Cont.
 Proj. Eng. JLB 3/76
 Civ. Eng.
 File No.

WILSEY & HAM
 LANDSCAPE
 PLANTING PLAN

GS-8
 GI
 1-1892-090
 SCALE: 1" = 20'-0"
 DATE: MARCH

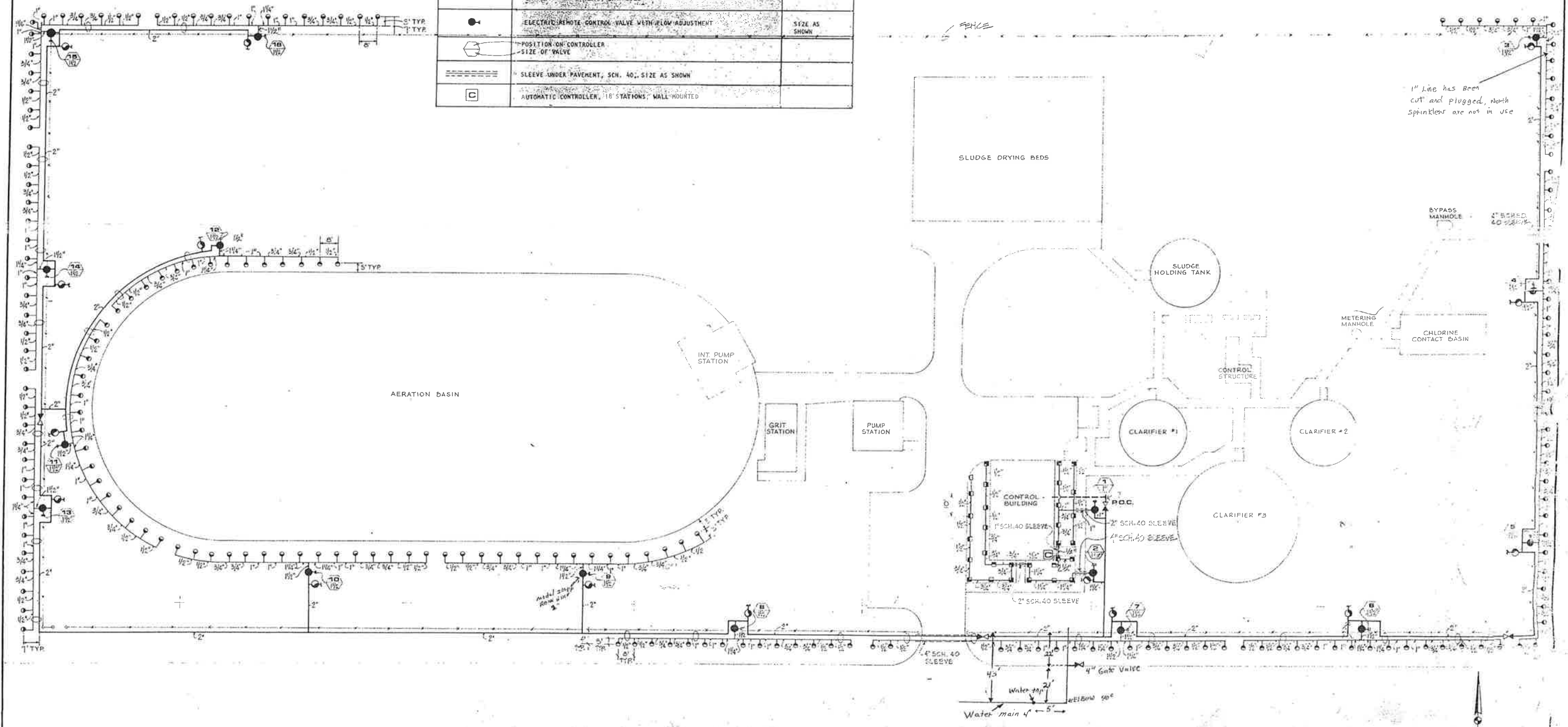
IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	REMARKS
□	QUARTER AND HALF SHRUBBERY FLAT SPRAY HEADS, 35 PSI, 10' R., 97 GPM (40'), 1.25' GPM (10')	
○	HALF CLACK UMBRELLA BUBBLER, 25 PSI, 2.5' GPM	
—	LATERAL LINES, SIZE AS SHOWN, CLASS 200 P.V.C.	SEE SPECIFICATIONS
—	PRESSURE SUPPLY LINE, SIZE AS SHOWN, CLASS 315 P.V.C.	SEE SPECIFICATIONS
—	USE COMMON TRENCH	
▶	2" GATE VALVE	
○	QUICK COUPLING VALVE, 3/4" SIZE	
●	ELECTRIC REMOTE CONTROL VALVE WITH FLOW ADJUSTMENT	SIZE AS SHOWN
◀	POSITION ON CONTROLLER, SIZE OF VALVE	
—	SLEEVE UNDER PAVEMENT, SCH. 40, SIZE AS SHOWN	
□	AUTOMATIC CONTROLLER, 18 STATIONS, WALL MOUNTED	

NOTES

- THE IRRIGATION SYSTEM AS REPRESENTED ON THE PLANS IS DIAGRAMMATIC ONLY. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NECESSARY TO INSURE COMPLETE AND UNIFORM COVERAGE.
- POINT OF CONNECTION (P.O.C.) WORKING PRESSURE FROM PUMP IS GOVERNED BY G.P.M. DRAW. THE FOLLOWING TABLE SHOWS AVAILABLE P.O.C. PRESSURE FOR THE FOLLOWING GPM, UPON WHICH THE SYSTEM IS BASED.

GPM	PSI
20	43
30	40
40	38
50	34
60	29
- EACH BRANCH LINE TO EACH SPRINKLER SHALL BE 1/2", TYPICAL.



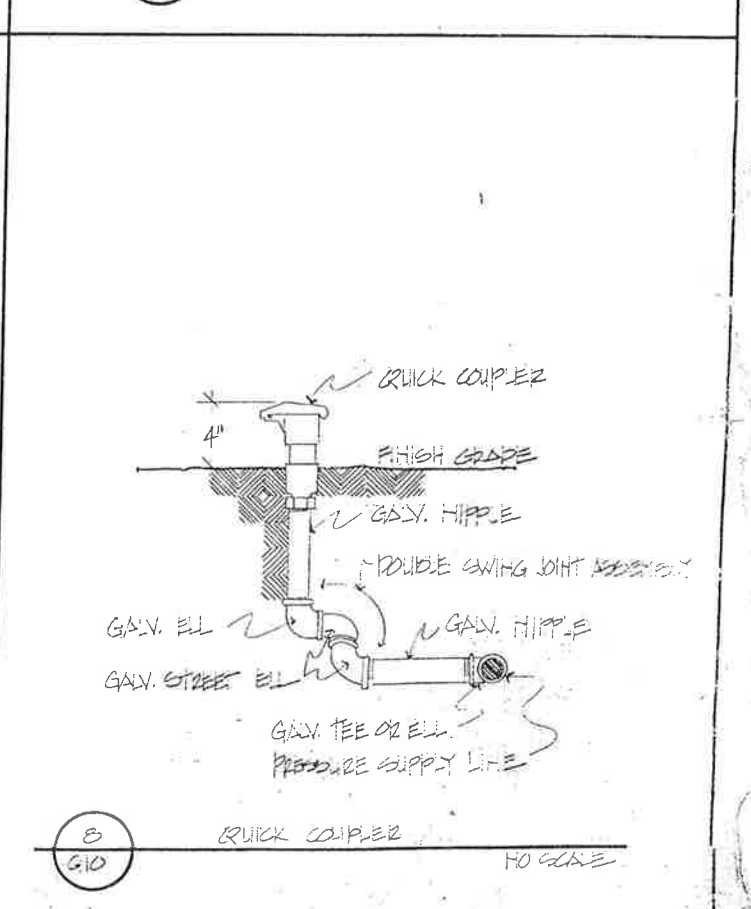
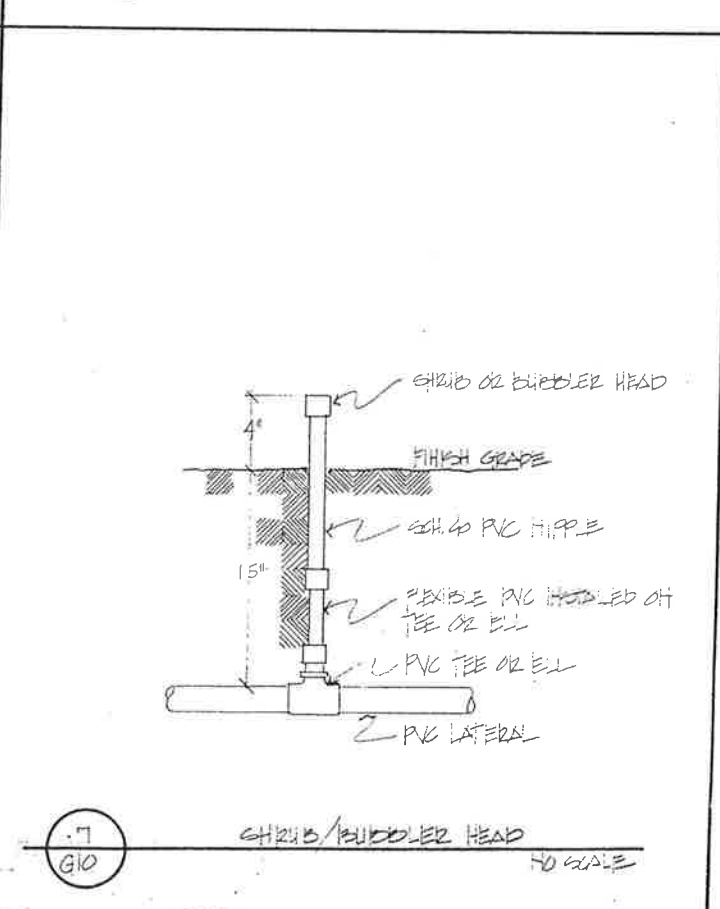
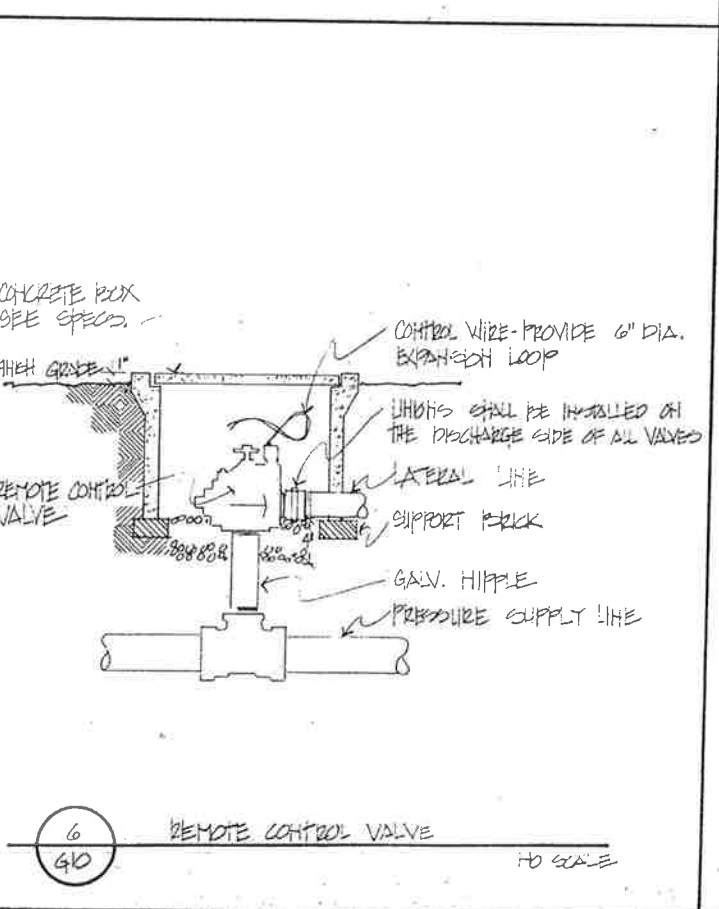
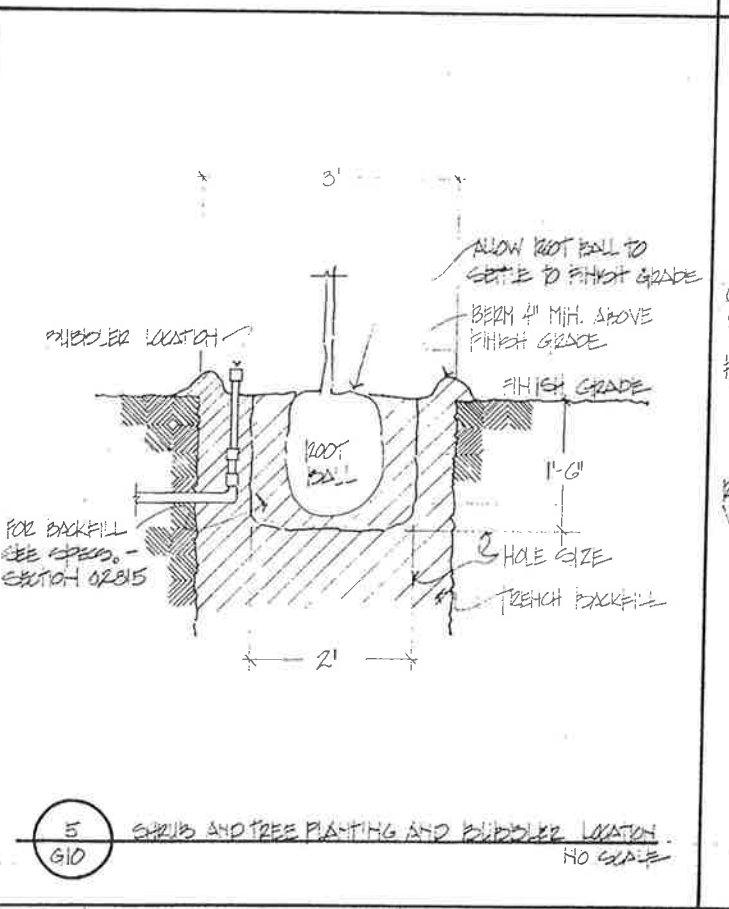
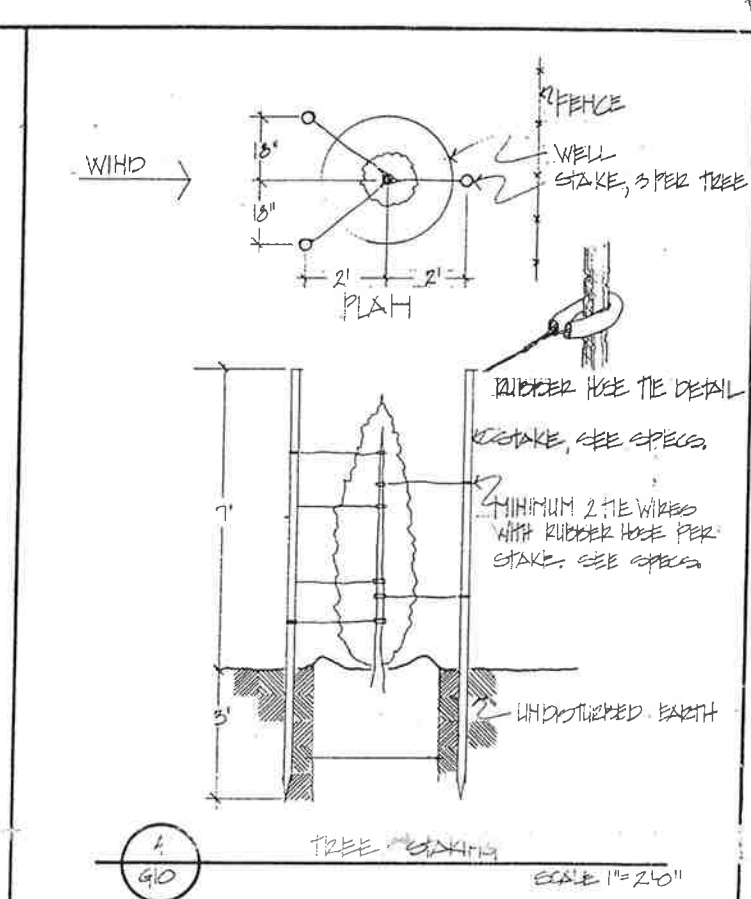
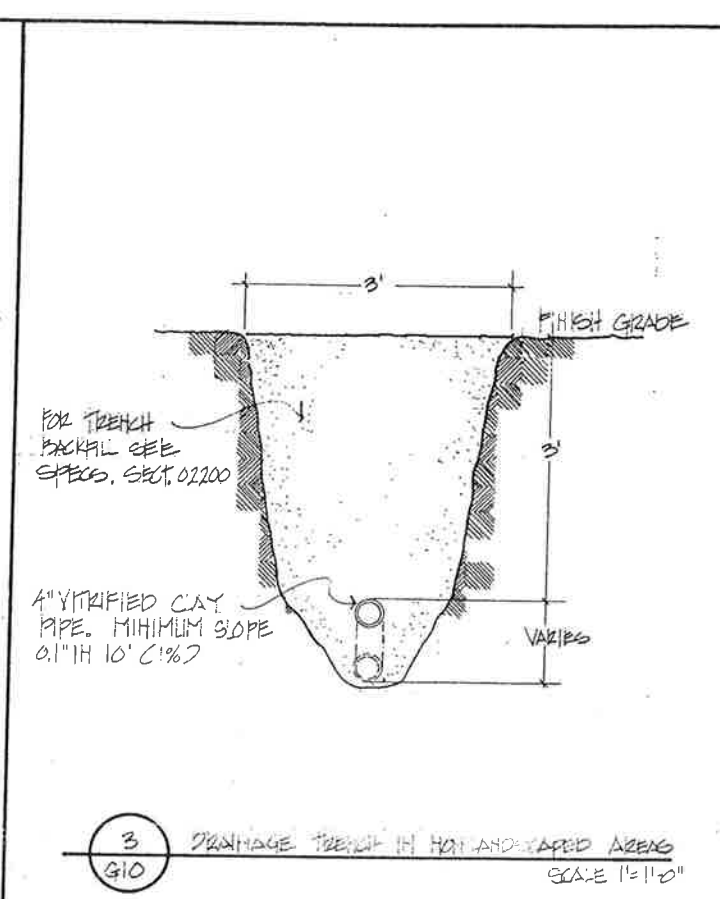
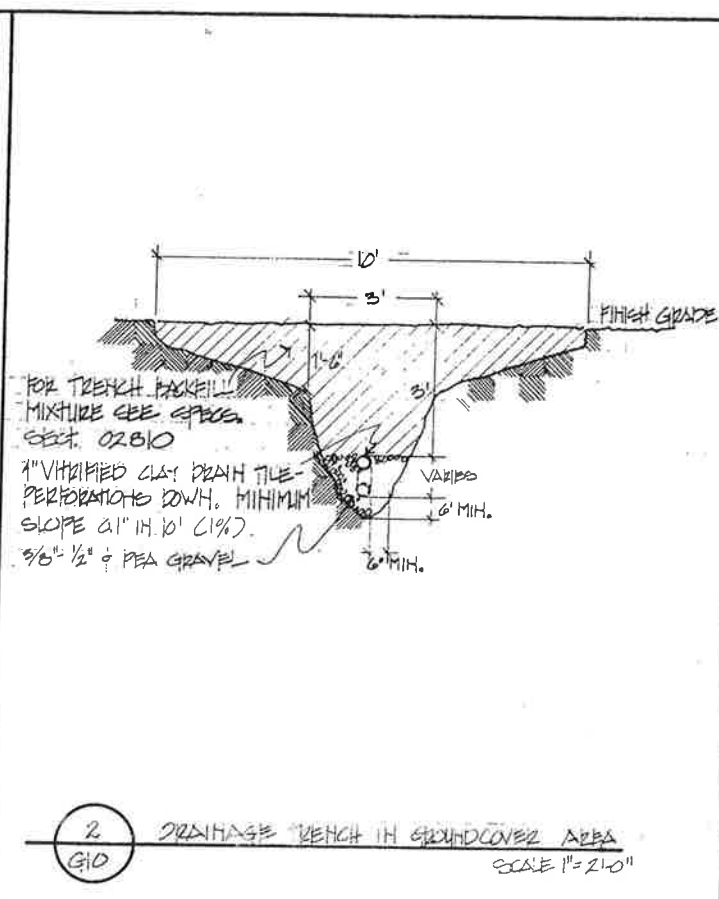
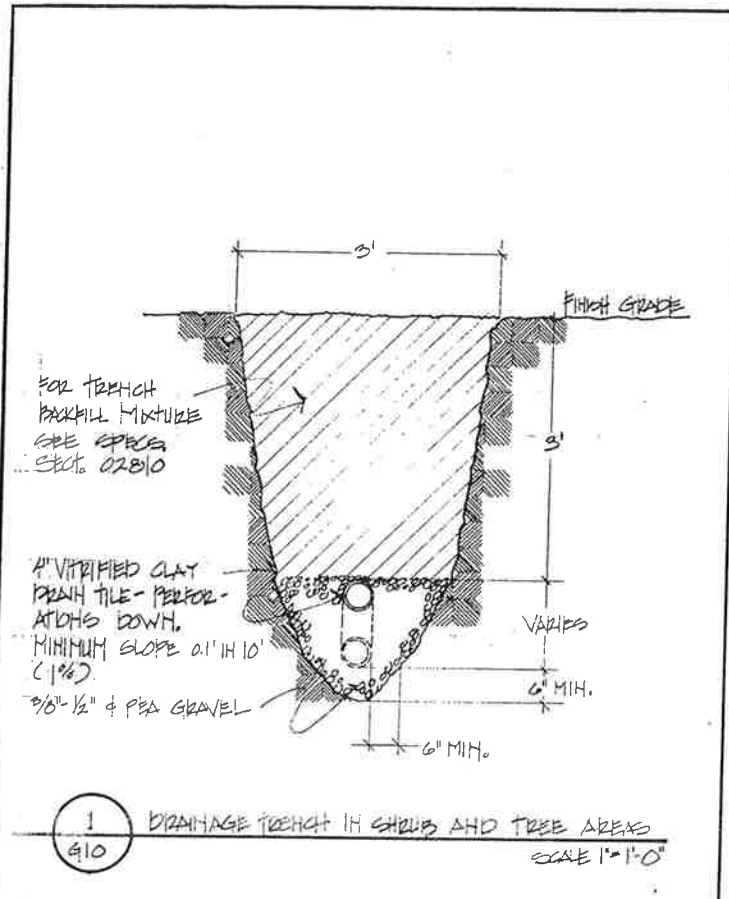
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

BY DATE
 Design: RAC 3/76
 Drawn: FT 3/76
 CLE: RAC 3/76
 6-24-76
 JLB 3/76

WILSEY & HAM
 LANDSCAPE IRRIGATION PLAN

G9
 GIO
 1-1892-0902-90
 SCALE: 1" = 20'-0"
 DATE: MAR. 1976

BY	DATE	REVISIONS



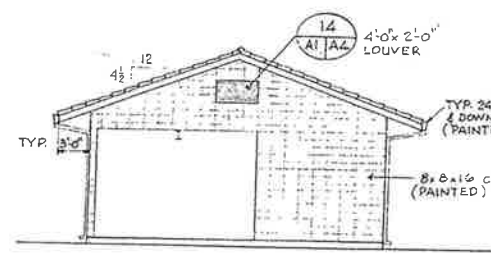
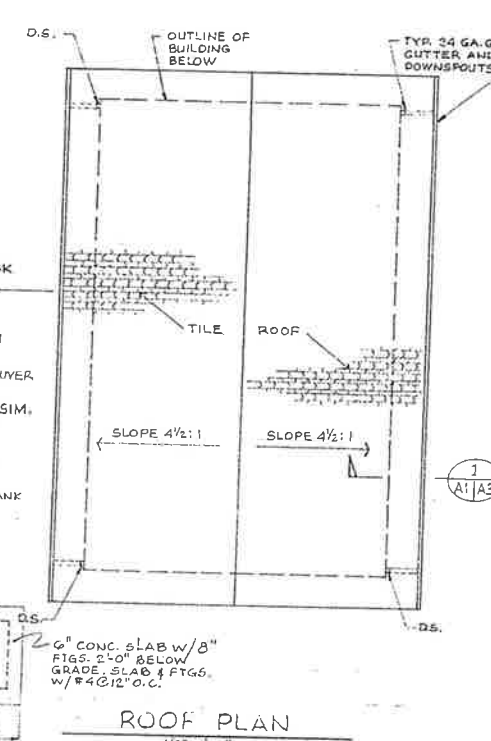
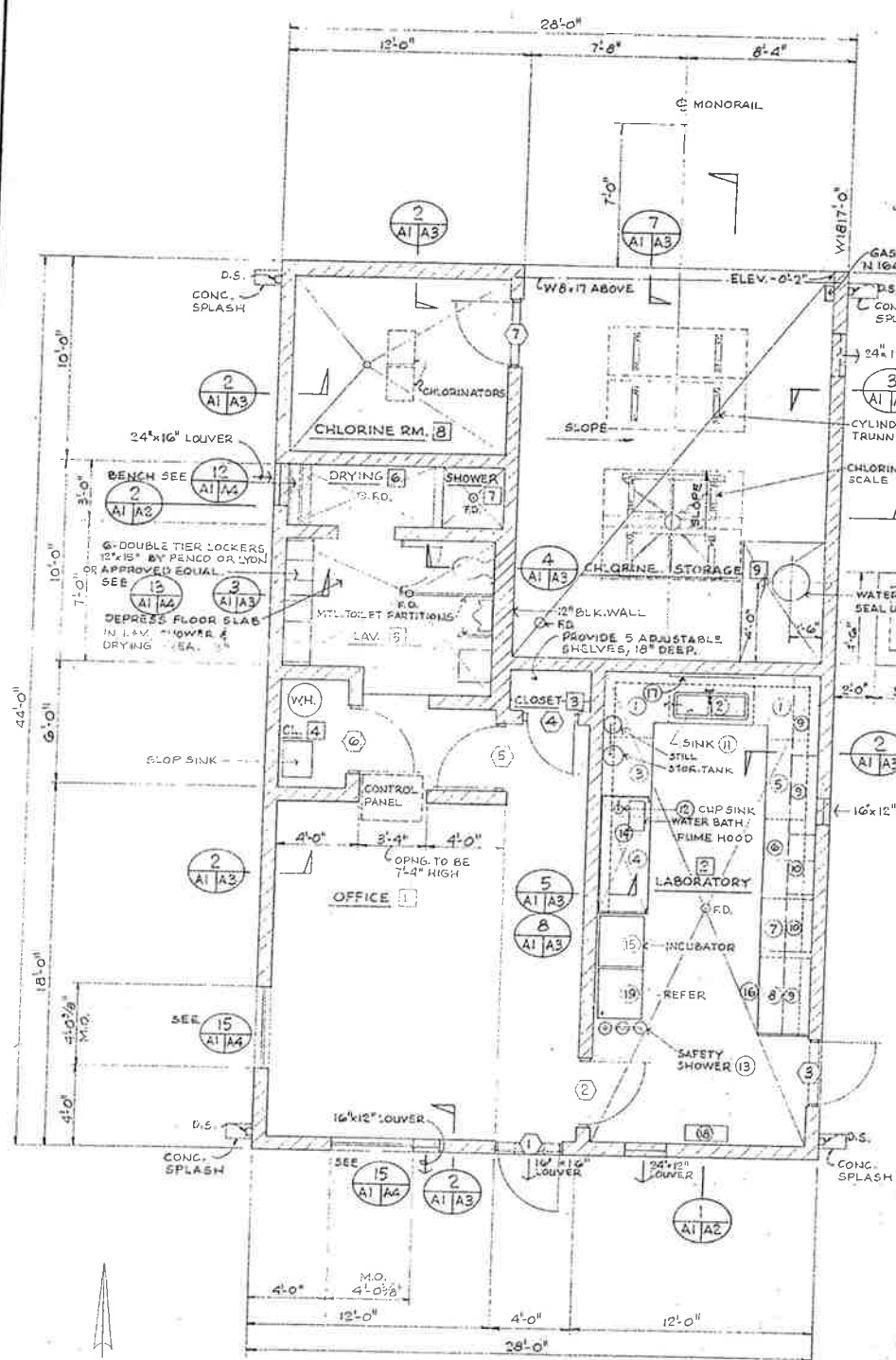
BY	DATE	REVISIONS

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

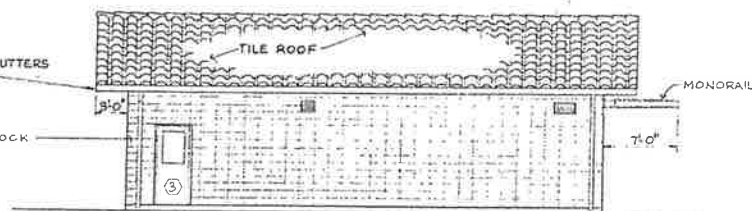
6-24-76
 WILSEY & HAM
 Design RAC 3/76
 Drawn RAC 3/76
 Ckd. RAC 3/76
 Proj. Eng. JLB 3/76
 Title No.

WILSEY & HAM
 LANDSCAPE DETAILS

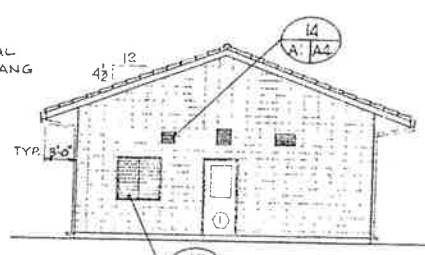
G10
 1-1892-0902-90
 AS NOTED
 MAR 1976



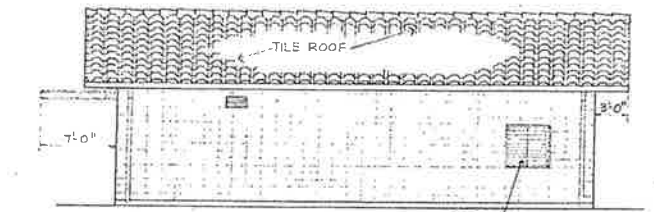
NORTH ELEVATION
1/8" = 1'-0"



EAST ELEVATION
1/8" = 1'-0"



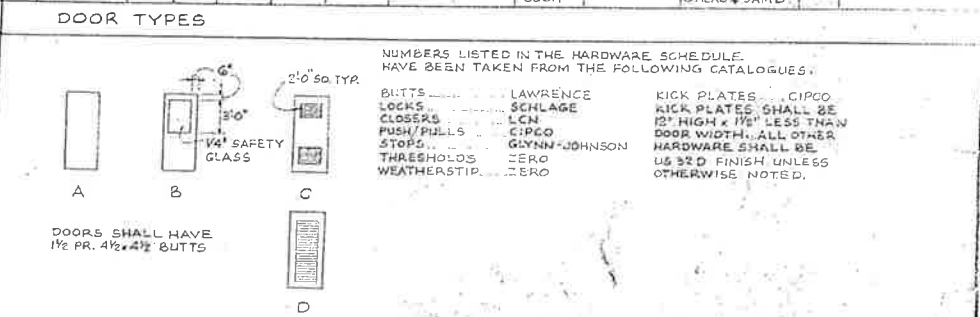
SOUTH ELEVATION
1/8" = 1'-0"



WEST ELEVATION
1/8" = 1'-0"

ROOM FINISH SCHEDULE									
NO.	NAME	FLOORS		WALLS		CEILING		REMARKS	
		MAT.	FINISH	BASE	MATERIAL	FINISH	HEIGHT		
1	OFFICE	CONC.	VAT	4" RUB	CONC. BLK.	PAINT CODE J	SUSP. CLG. TILE	FACTORY	8'-0"
2	LABORATORY	VAT					SUSP. CLG. TILE	FACTORY	
3	CLOSET	VAT					SUSP. GYP. B.O.	PAINT CODE M	
4	CLOSET	VAT							
5	LAV.	CER. TILE	CER. TILE						
6	DRYING	CER. TILE	CER. TILE	CONC. BLK.	PAINT CODE J				
7	SHOWER	CER. TILE	CER. TILE	CER. TILE	FACTORY				
8	CHLORINE RM.	HARDNER & SEALER		CONC. BLK.	PAINT CODE J				8'-0"
9	CHLORINE STOR.	CONC.	HARDNER & SEALER		CONC. BLK.	PAINT CODE H	SUSP. GYP. B.O.	PAINT CODE M	11'-4"
EXTERIOR		CONC. BLOCK - PAINT CODE H, WOOD PAINT CODE H, METAL PAINT CODE A.							
INTERIOR METAL PIPING, ETC.		PAINT CODE A.							

DOOR & HARDWARE SCHEDULE												
NO.	SIZE	DOORS				HARDWARE						REMARKS
		MAT.	TYPE	FRAME	FINISH	DETAIL	BUTTS	LOCK	CLOSER	THRESHOLD	WEATHERSTRIP	
1	3'-0" x 7'-2 1/4"	METAL	B	METAL	PAINT CODE A	554101-32DNRP	C51PD	4115H CUSH	G55	*52 @ SILL & *50 @ HEAD & JAMB	ST10	
2	3'-0" x 7'-2 1/4"		B			4115-32D	C105					W825
3	3'-0" x 7'-2 1/4"		A			4115-32D NRP	C51PD	4115H CUSH	G55	*52 @ SILL & *50 @ HEAD & JAMB	ST10	
4	2'-6" x 7'-2 1/4"		A			4115-32D	C105					W825
5	3'-0" x 7'-2 1/4"		A			4115-32D		4014				STP B11
6	3'-0" x 7'-2 1/4"		C			4115-32D	C105					W825
7	3'-0" x 7'-2 1/4"		D			4115-32D NRP	C51PD	C105	G55	*52 @ SILL & *50 @ HEAD & JAMB	ST10	CLASS 'C' DOOR
8	3'-0" x 7'-2 1/4"		A			554101-32DNRP	C51PD	4115H CUSH	G55	*52 @ SILL & *50 @ HEAD & JAMB	ST10	C PUMP STATION
9	3'-0" x 7'-2 1/4"		A			554101-32DNRP	C51PD	4115H CUSH	G55	*52 @ SILL & *50 @ HEAD & JAMB	ST10	C PUMP STATION



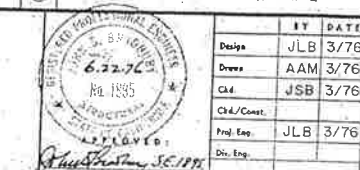
FLOOR PLAN
1/4" = 1'-0"

NOTE: FOR CONC. BLOCK WALL REINF. SEE [6] AI/A3
FOR LOUVER DETAILS SEE [14] AI/A4

NOTE: ALL NOS. (1) THRU (18) ARE VAN-LAB, LABCONCO OR APPROVED EQUAL. CAT NOS. ARE FOR IDENTIFICATION ONLY.

LABORATORY CABINETS & EQUIPMENT SCHEDULE					
NO.	CAT. NO.	NO.	CAT. NO.	NO.	CAT. NO.
(1)	24 HD. VL24H-32	(8)	VL 1990	(14)	70717
(2)	25 HD. VL25HD-51	(9)	VL 1744	(15)	LAB-LINE 3554-17
(3)	8 HD. VL8HD-47 REVERSED	(10)	VL 1734	(16)	VL 9911 STOOL
(4)	29 HD. VL29HD-58	(11)	VL5622-2 W/VL5110, VL5965-X & VL9075	(17)	VL 7057 PEGBOARD
(5)	19 HD. VL19HD-47	(12)	40053 w/40051 & 40054	(18)	80250 PORTABLE TABLE
(6)	2H. VL 2H-24	(13)	56617-129	(19)	FRIGIDAIRE MODEL FCD-123T. WHITE
(7)	VL 1950				

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

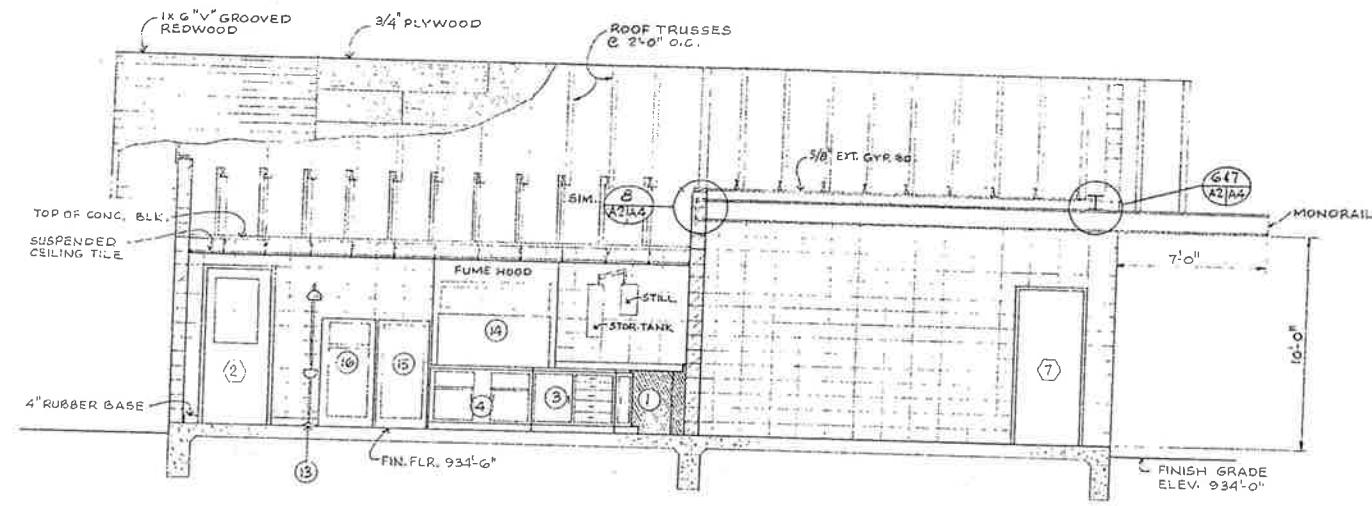


BY DATE
 Design: JLB 3/76
 Drawn: AAM 3/76
 Ck'd: JSB 3/76
 Prof. Exp.: JLB 3/76
 Div. Exp.:
 File No.:

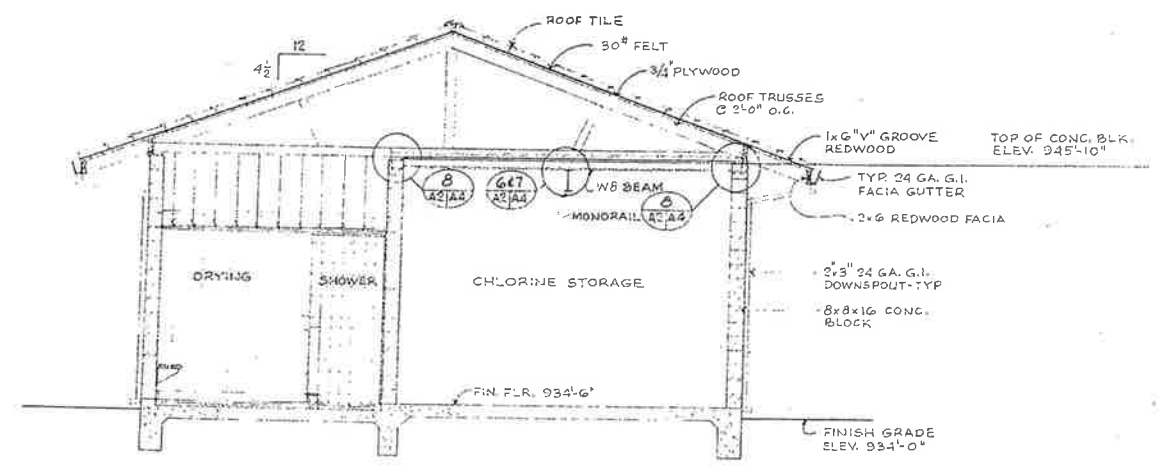
WILSEY & HAM

CONTROL BUILDING PLANS & ELEVATIONS

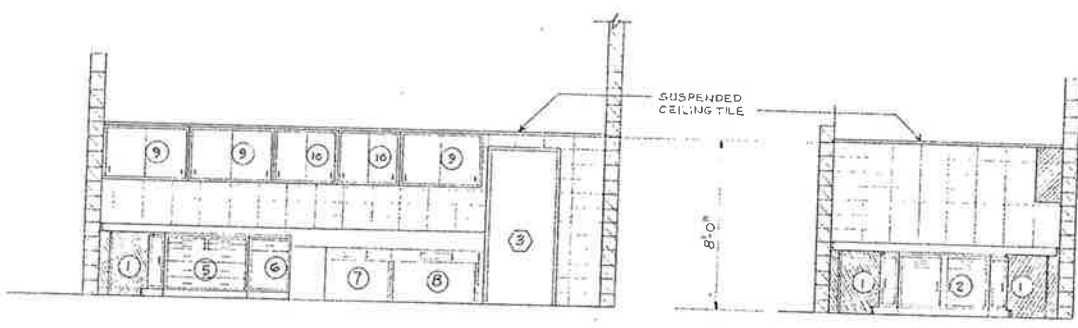
AI/A4
 DWG. NO.
 1-1892-0902-75
 SCALE: AS NOTED
 DATE: MAR 1976



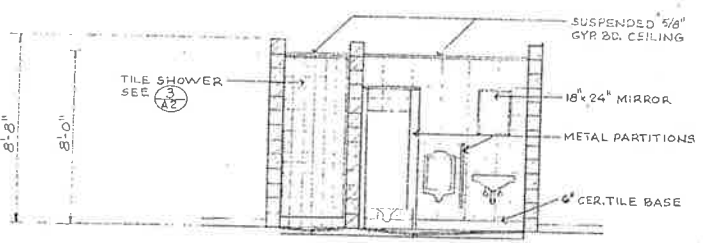
SECTION 1
1/4" = 1'-0" A1 | A2



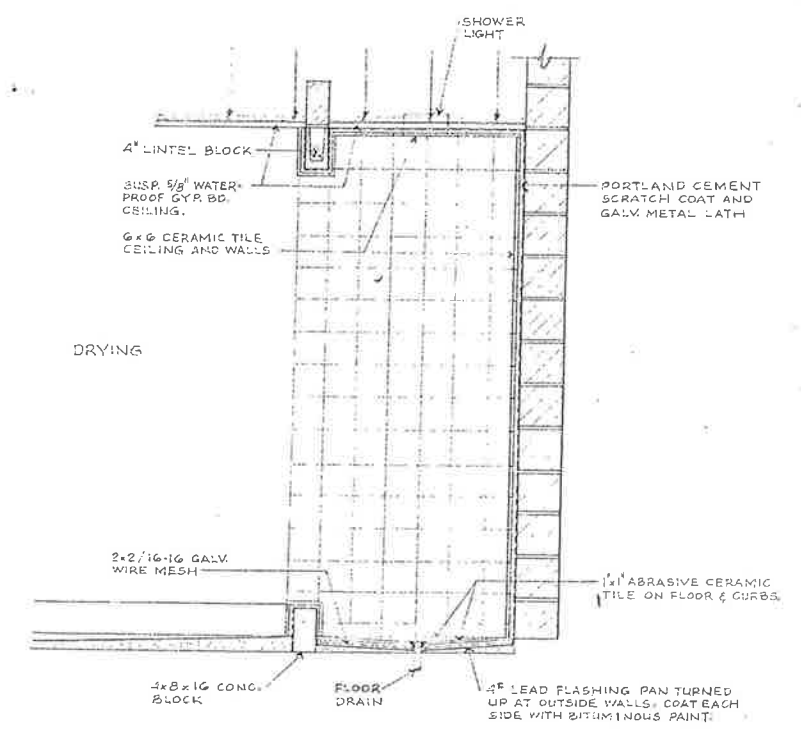
SECTION 2
1/4" = 1'-0" A1 | A2



EAST WALL NORTH WALL
LABORATORY 2 ELEVATIONS
1/4" = 1'-0"



LAV. 5 ELEVATION
1/4" = 1'-0"



SHOWER DETAIL 3
3/4" = 1'-0" A1 | A2

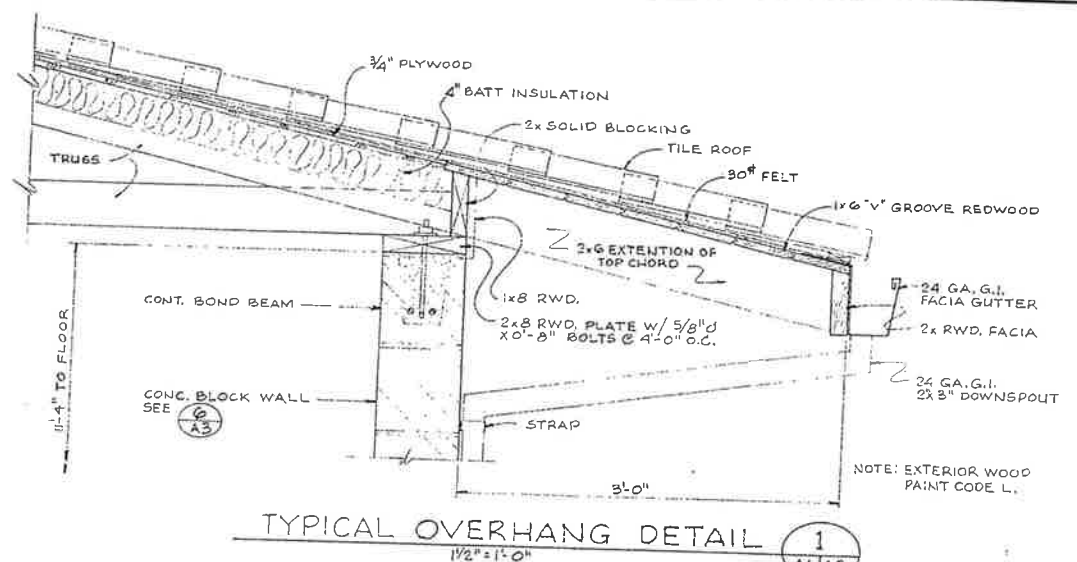
BY	DATE	REVISIONS

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

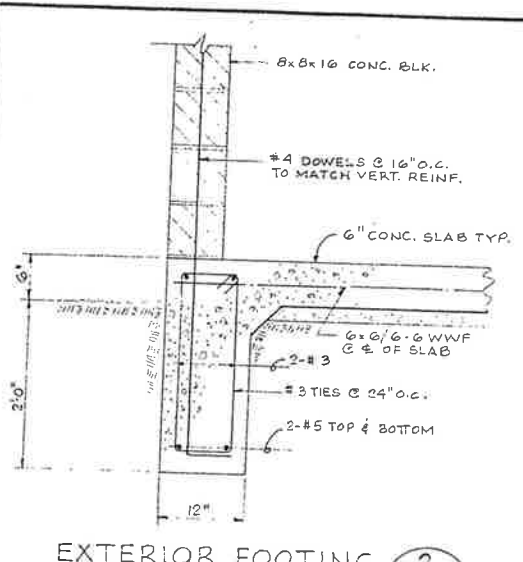


BY	DATE
Design	JLB 3/76
Drawn	AAM 3/76
Chk.	JSB 3/76
Chk./Cons.	
Prof. Eng.	JLB 3/76
Dir. Eng.	
Proj. No.	

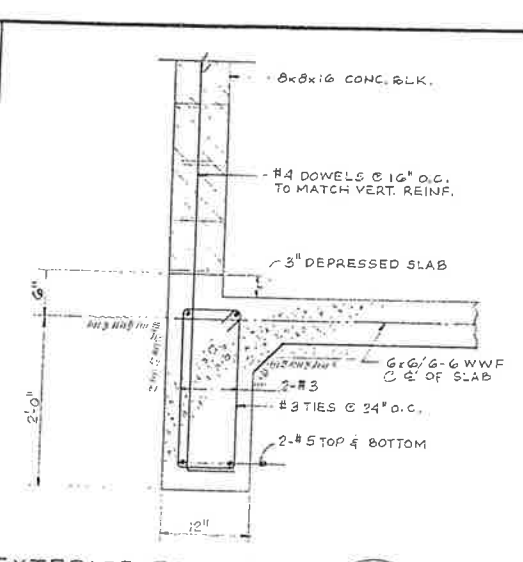
WILSEY & HAM
CONTROL BUILDING SECTIONS



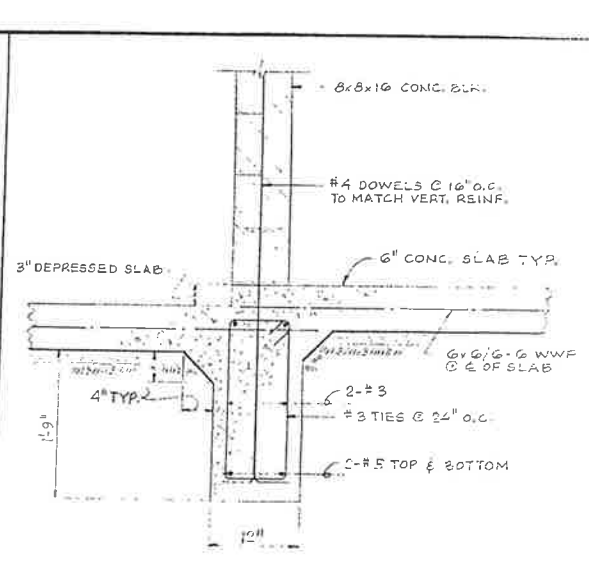
TYPICAL OVERHANG DETAIL (1) A1/A3



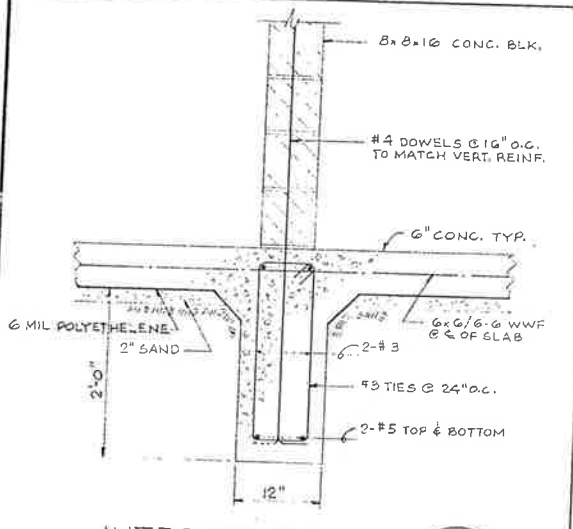
EXTERIOR FOOTING (2) A1/A3



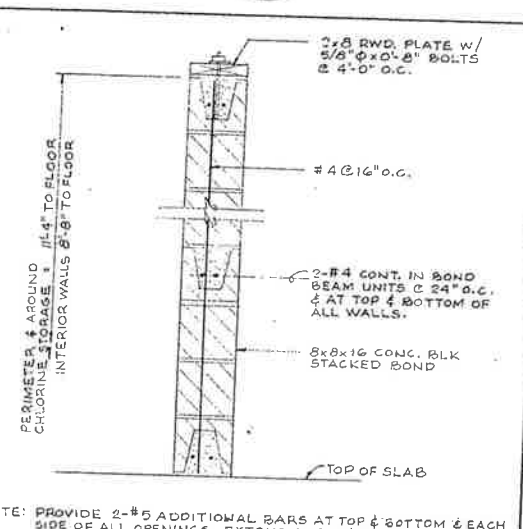
EXTERIOR FOOTING AT DEPRESSED SLAB (3) A1/A3



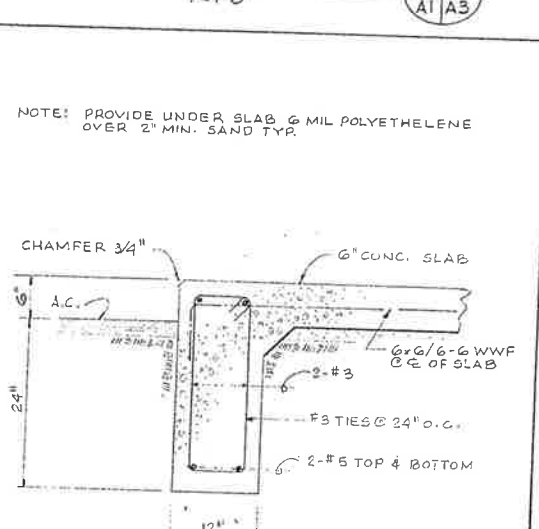
INTERIOR FOOTING AT DEPRESSED SLAB (4) A1/A3



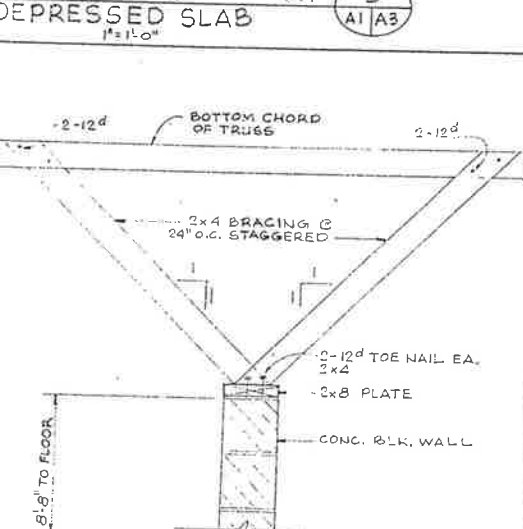
INTERIOR FOOTING (5) A1/A3



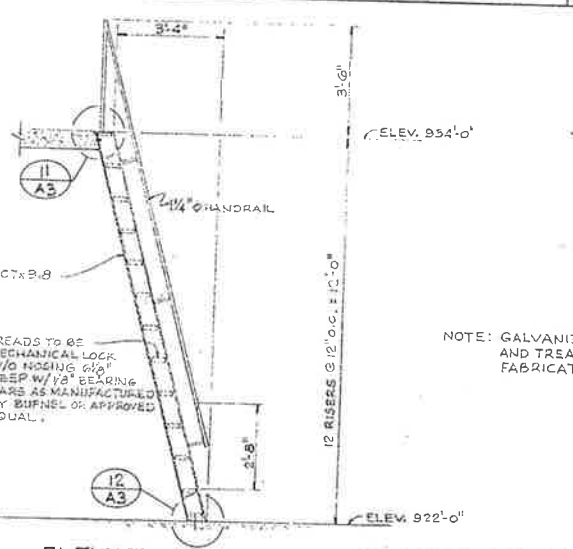
TYPICAL CONC. BLK. WALL (6) A1/A3



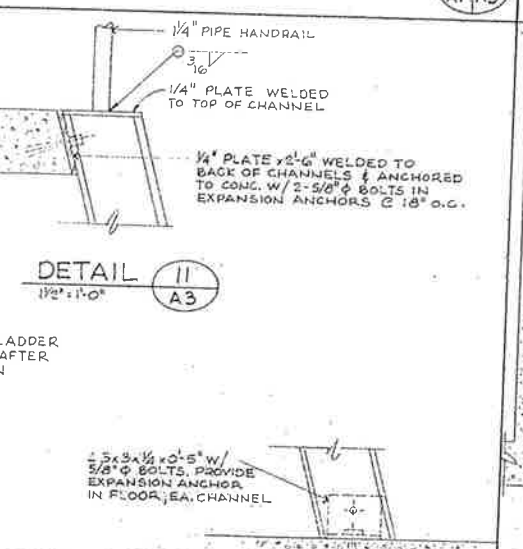
FOOTING AT EDGE OF SLAB (7) A1/A3



WALL BRACING (8) A1/A3

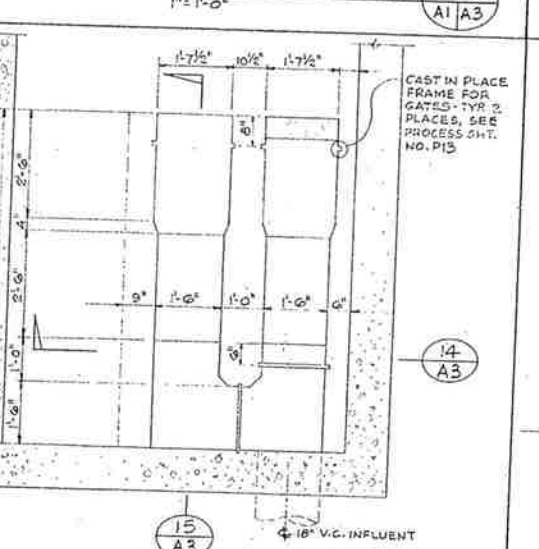


ELEVATION (9) A3

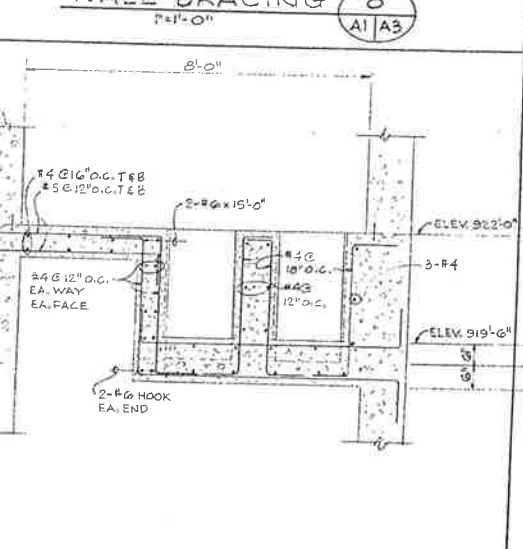


DETAIL (10) A3

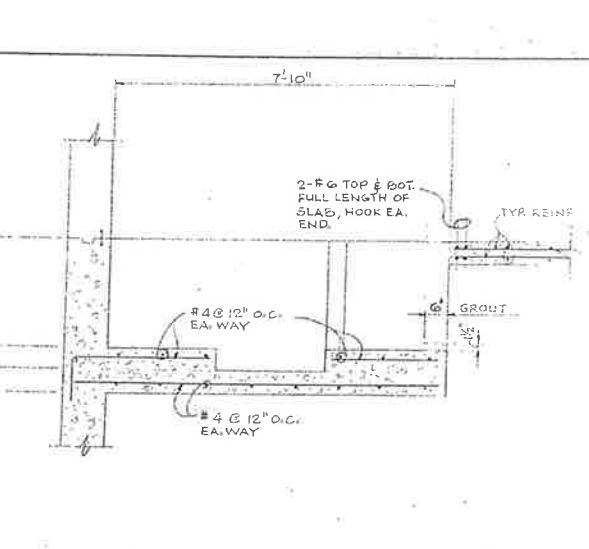
DETAIL (12) A3



COMMUNICATOR PLAN (13) A1/A3



COMMUNICATOR SECTION (14) A3



COMMUNICATOR SECTION (15) A3

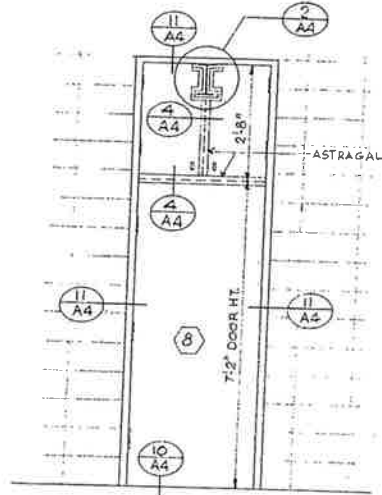
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT



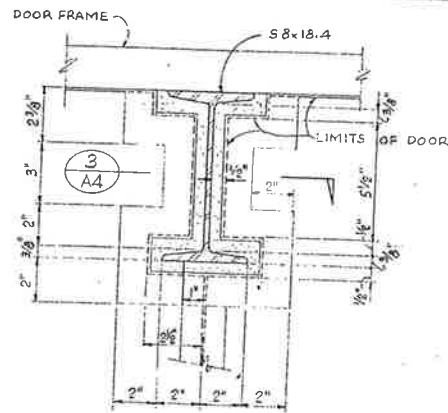
BY	DATE
Drawn	JSB 3/76
Checked	AAM 3/76
Designed	JSB 3/76
Proj. Eng.	JLB 3/76
Dist. Engr.	
PL. ENGR.	

WILSEY & HAM
ARCHITECTURAL & STRUCTURAL SECTIONS

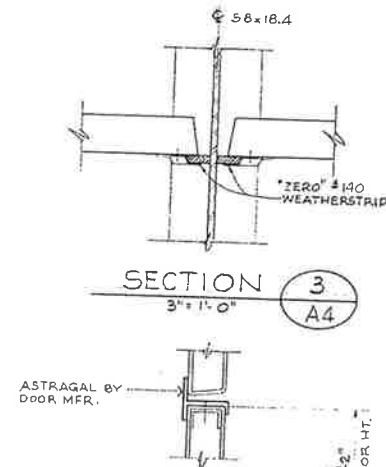
A3
A4
DEWG. NO. 1-1892-0902
SCALE: AS NOTED
DATE: MAR. 1976



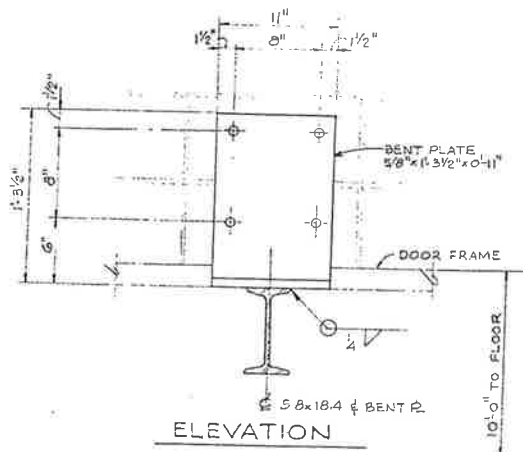
DOOR ELEVATION 1
1/2" = 1'-0"



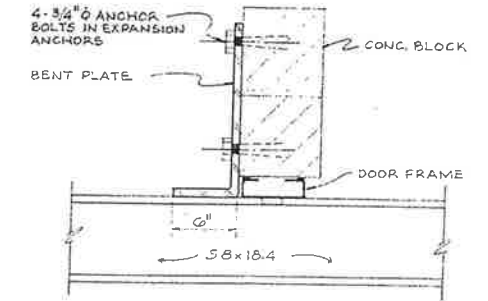
DETAIL 2
3" = 1'-0"



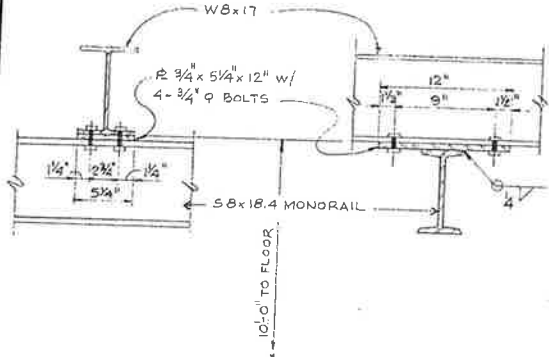
SECTION 3
3" = 1'-0"



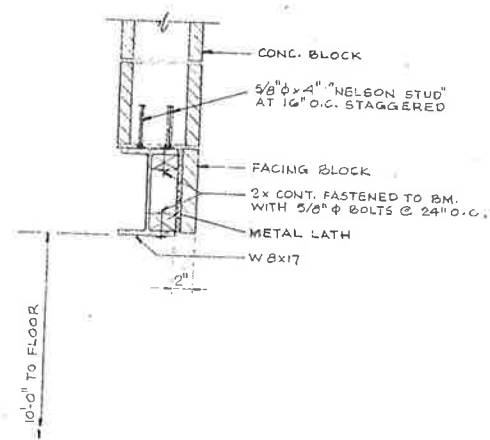
ELEVATION 5
1/2" = 1'-0"



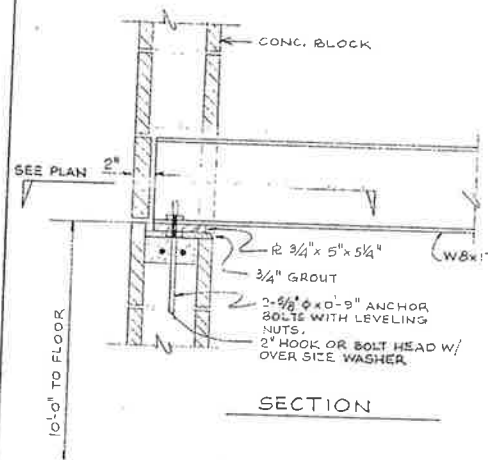
SECTION 5



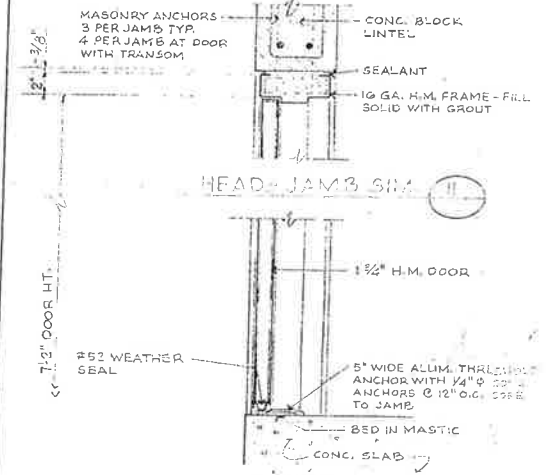
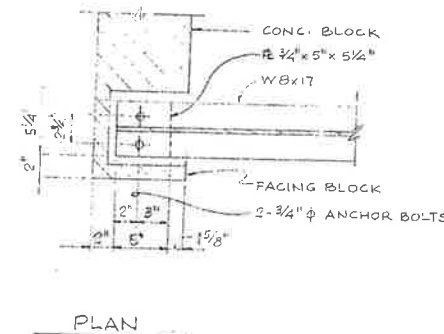
MONORAIL TO W8x17 CONN 6
1/2" = 1'-0"



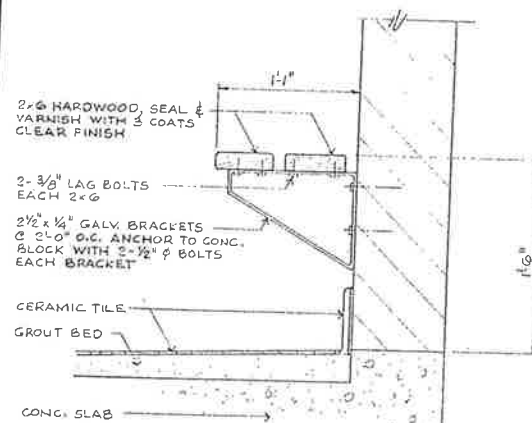
CONC. BLK. OVER W8x17 DET 7
1/2" = 1'-0"



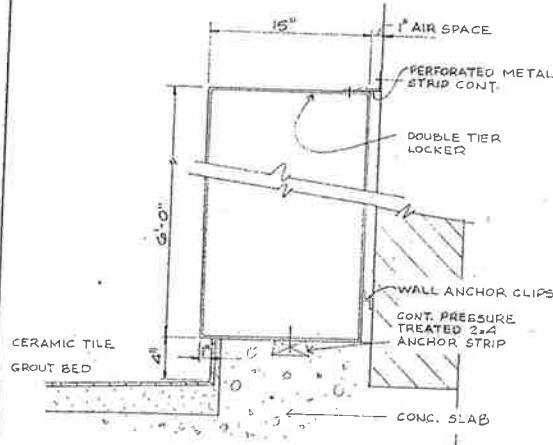
W8x17 TO CONC. BLK. WALL DET. 8
1/2" = 1'-0"



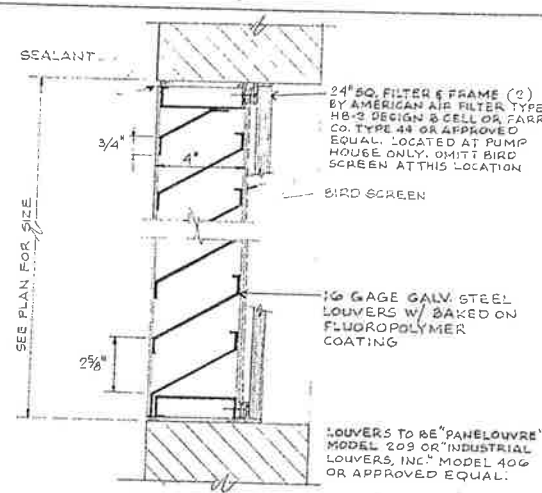
SILL 10
DOOR DETAILS 9
1/2" = 1'-0"



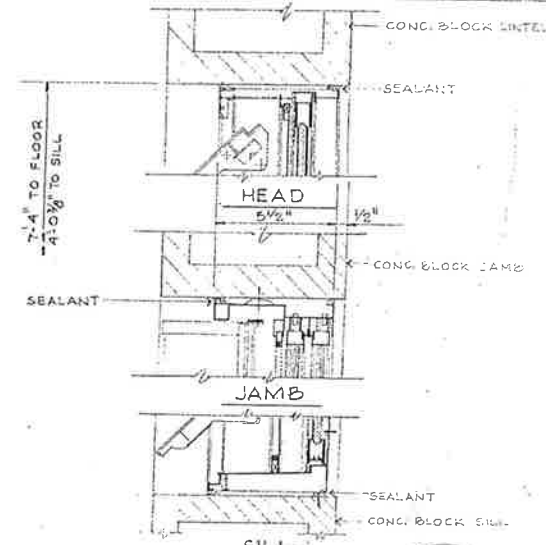
BENCH DETAIL 12
1/2" = 1'-0"



LOCKER DETAIL 13
1/2" = 1'-0"



LOUVER DETAIL 14
3" = 1'-0"



WINDOW DETAILS 15
1/2" = 1'-0"

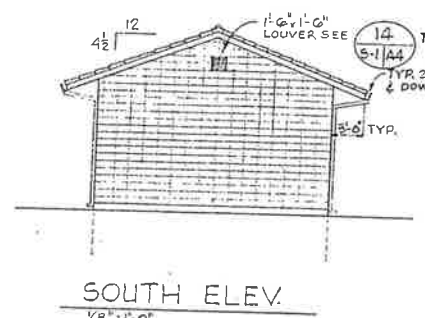
CITY OF IMPERIAL CALIFORNIA
WASTEWATER TREATMENT PLANT



BY	DATE
Design	JLB 3/76
Drawn	AAM 3/76
Chk.	USB 3/76
Chk./Coord.	
Prof. Eng.	JLB 3/76
Dir. Eng.	
Proj. No.	

WILSEY & HAM
ARCHITECTURAL &
STRUCTURAL DETAILS

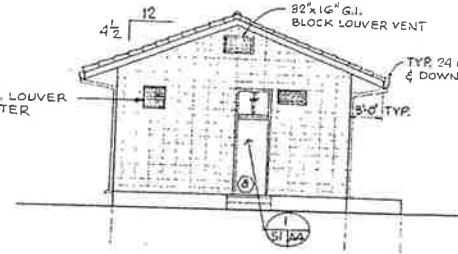
A4
A4
DWG. NO.
1-1892-0902-75
SCALE: AS NOTED
DATE: MAR. 1976



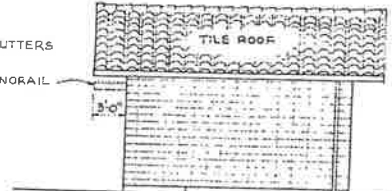
SOUTH ELEV.
1/8" = 1'-0"



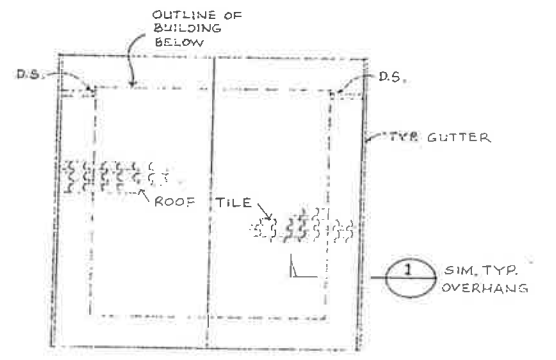
EAST ELEV.
1/8" = 1'-0"



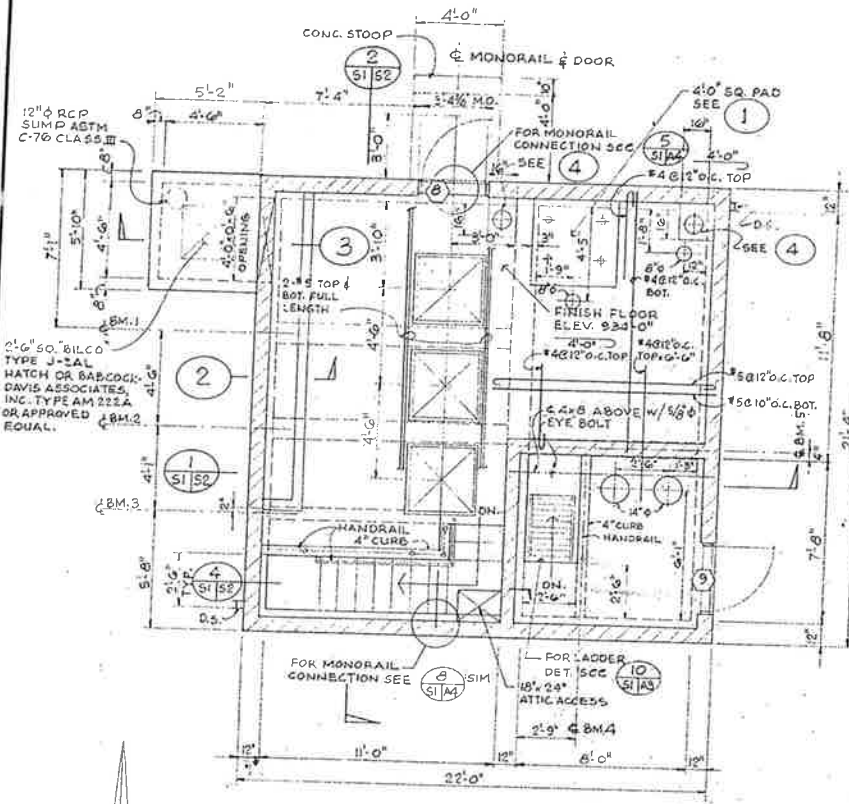
NORTH ELEV.
1/8" = 1'-0"



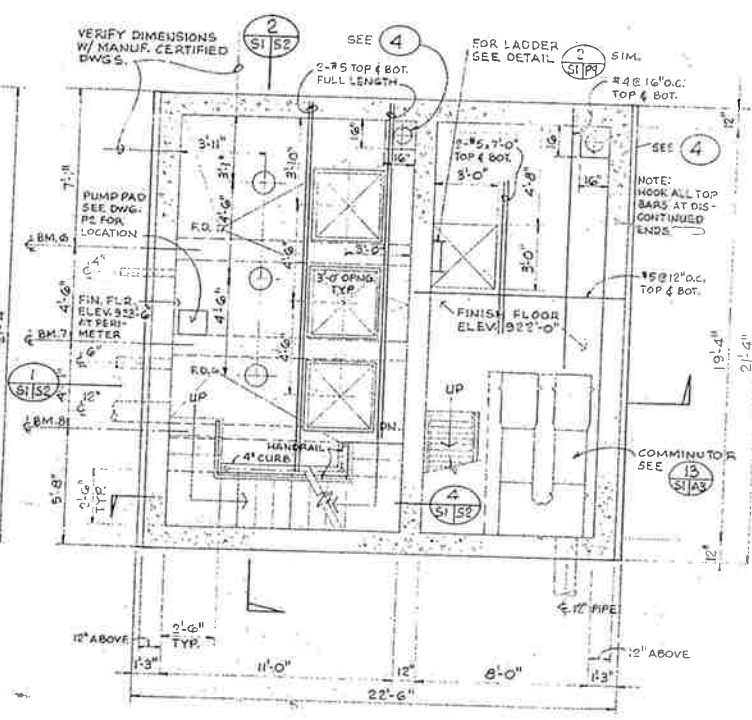
WEST ELEV.
1/8" = 1'-0"



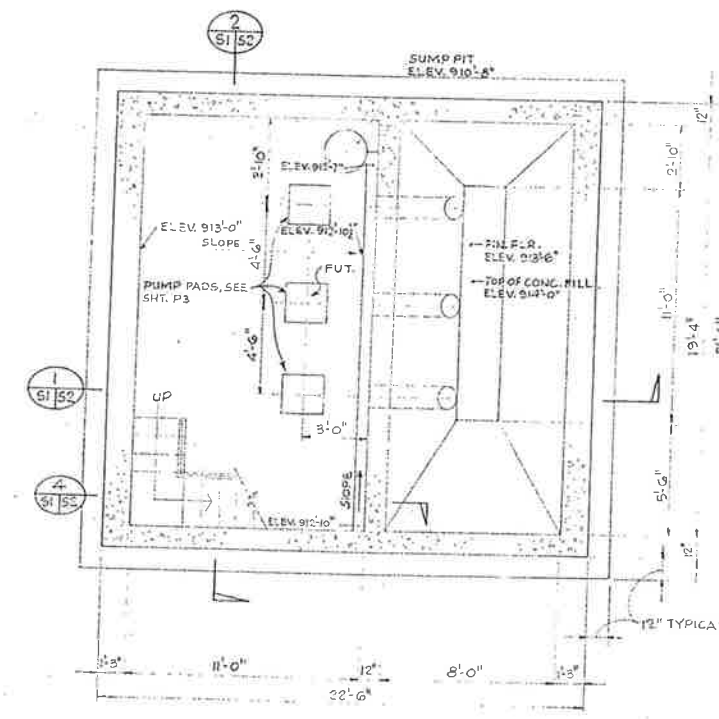
ROOF PLAN
1/8" = 1'-0"



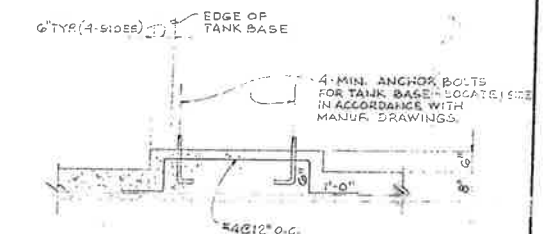
GROUND LEVEL PLAN
1/4" = 1'-0"



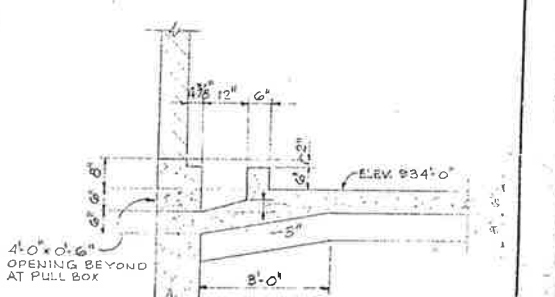
INTERMEDIATE LEVEL PLAN
1/4" = 1'-0"



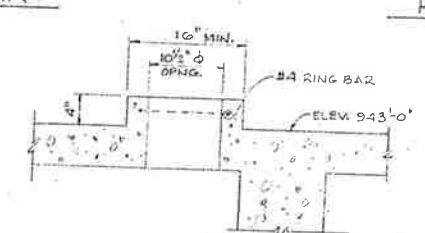
PUMP LEVEL PLAN
1/4" = 1'-0"



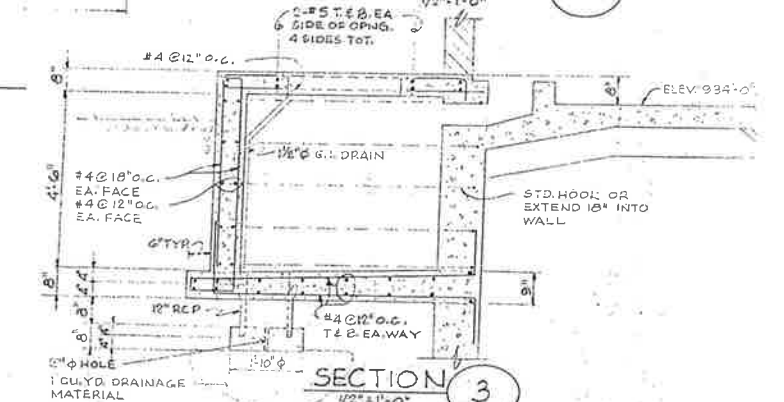
DETAIL 1
1/2" = 1'-0"



DETAIL 2
1/2" = 1'-0"



DETAIL 4
1/2" = 1'-0"



SECTION 3
1/2" = 1'-0"

BEAM SCHEDULE						
BM. NO.	TYPE	WIDTH	DEPTH	TOP BARS	TYPE	BOT. BARS
1		12"	14"	2-#9		2-#9 @ 11'-0" #3 @ 12" O.C.
2		12"	14"	2-#8		2-#8 @ 11'-0" #3 @ 14" O.C.
3		8"	14"	2-#7		2-#7 @ 11'-0" #3 @ 14" O.C.
4		6"	12"	1-#8		1-#8 @ 8'-0" #3 @ 12" O.C.
5		8"	14"	2-#7		2-#7 @ 9'-0" #3 @ 12" O.C.
6		12"	16"	2-#8		2-#8 @ 12'-0" #3 @ 16" O.C.
7		12"	16"	2-#8		2-#8 @ 12'-0" #3 @ 16" O.C.
8		8"	16"	2-#7		2-#7 @ 12'-0" #3 @ 16" O.C.

BMS. & REINF. SLOPE AT ELECT. SERVICE TRENCH

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

PROFESSIONAL ENGINEER
JULIUS B. WILSEY
No. 1595
MAR 1976

BY	DATE
Design	JSB 3/76
Drawn	AAM 3/76
Chk.	JSB 3/76
Proj. Eng.	JLB 3/76

WILSEY & HAM
PUMP STATION
PLANS & ELEVATIONS

SI
S9
DRAWING NO.
1-1892-0902-65
SCALE: AS NOTED
DATE: MAR 1976

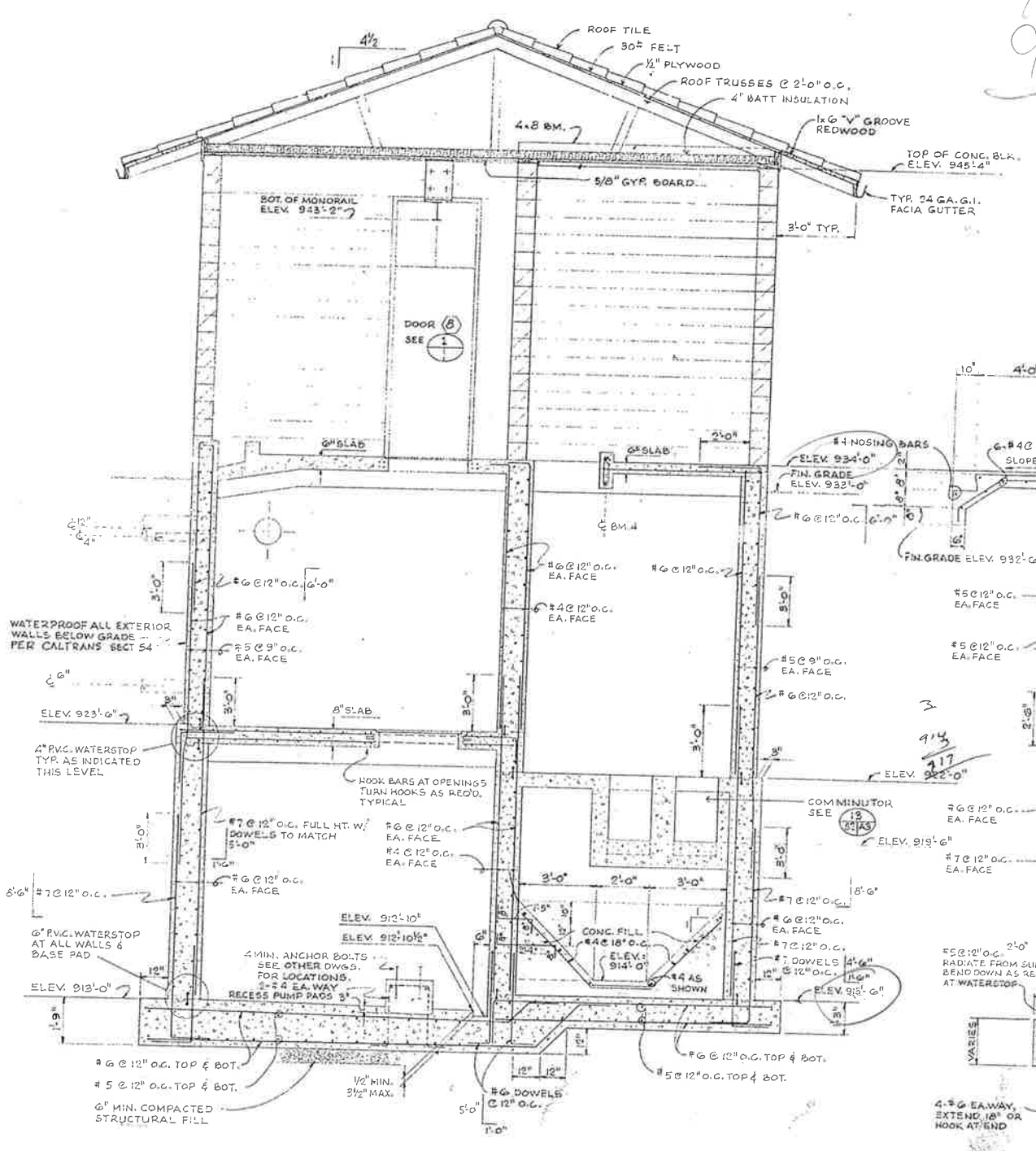
BY	DATE	REVISIONS

934
913
21

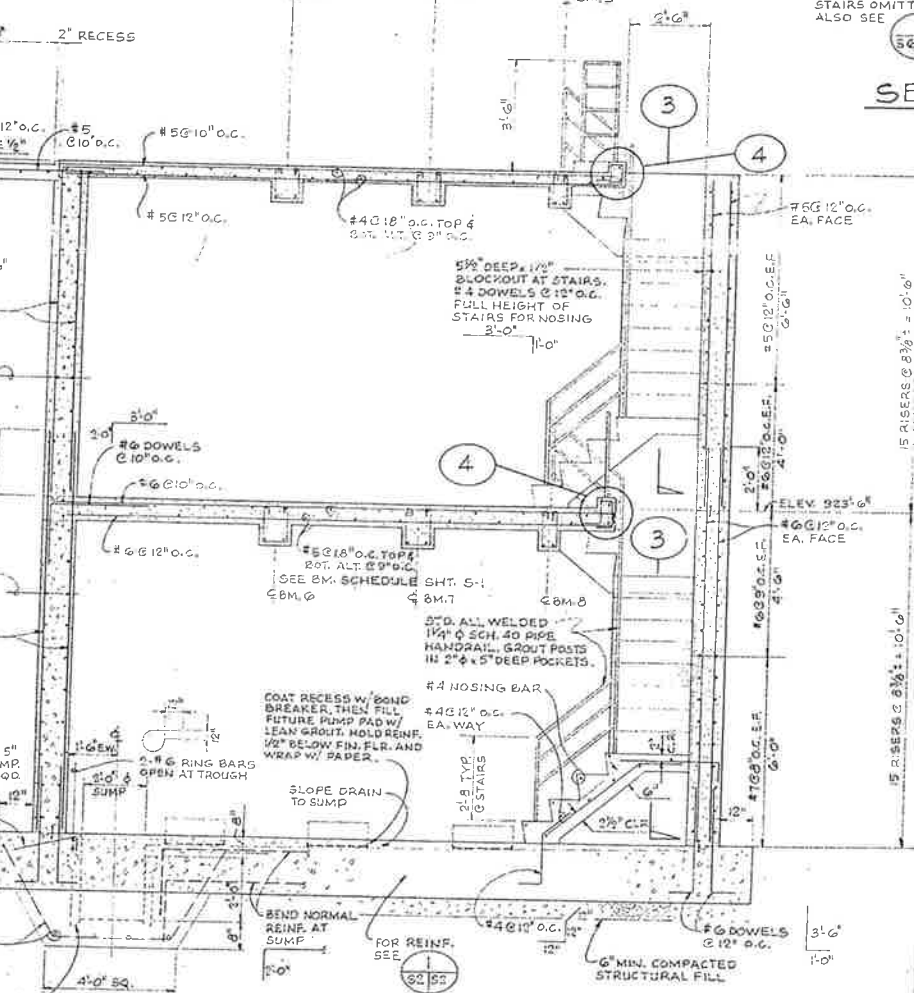
922
914
8

922
914
8

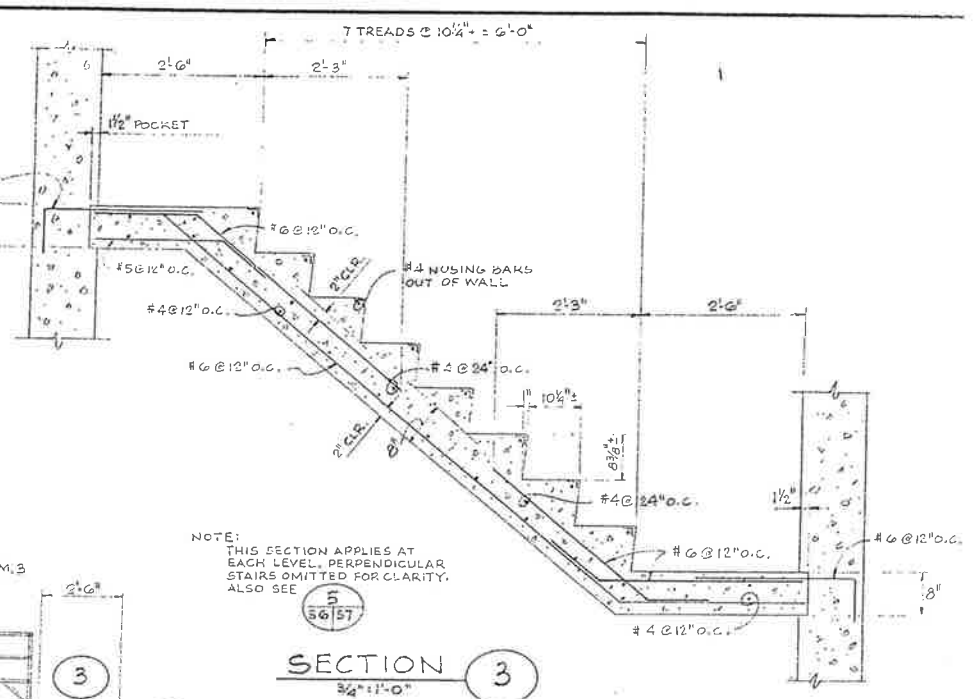
945-4
934-6
11.4



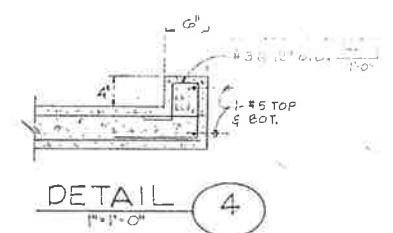
SECTION 1
3/8" = 1'-0"



SECTION 2
3/8" = 1'-0"



SECTION 3
3/8" = 1'-0"



DETAIL 4
1/2" = 1'-0"

NAME	FLOORS	WALLS	CEILING	REMARKS
Superstructure	Hardner & Sealer	Paint Code M	Paint Code M	
Dry Pit	Hardner & Sealer	Paint Code J	Paint Code J	Smooth finish concrete
Wet Pit - Level	Hardner & Sealer	Paint Code E	Paint Code E	Smooth finish concrete
Wet Pit - Level	Steel Trowel	Paint Code F	Paint Code F	Smooth finish concrete
Exterior Masonry		Paint Code H		
Exterior Metal				Paint Code A
Exterior Wood				Paint Code B
Interior Metal				Paint Code D

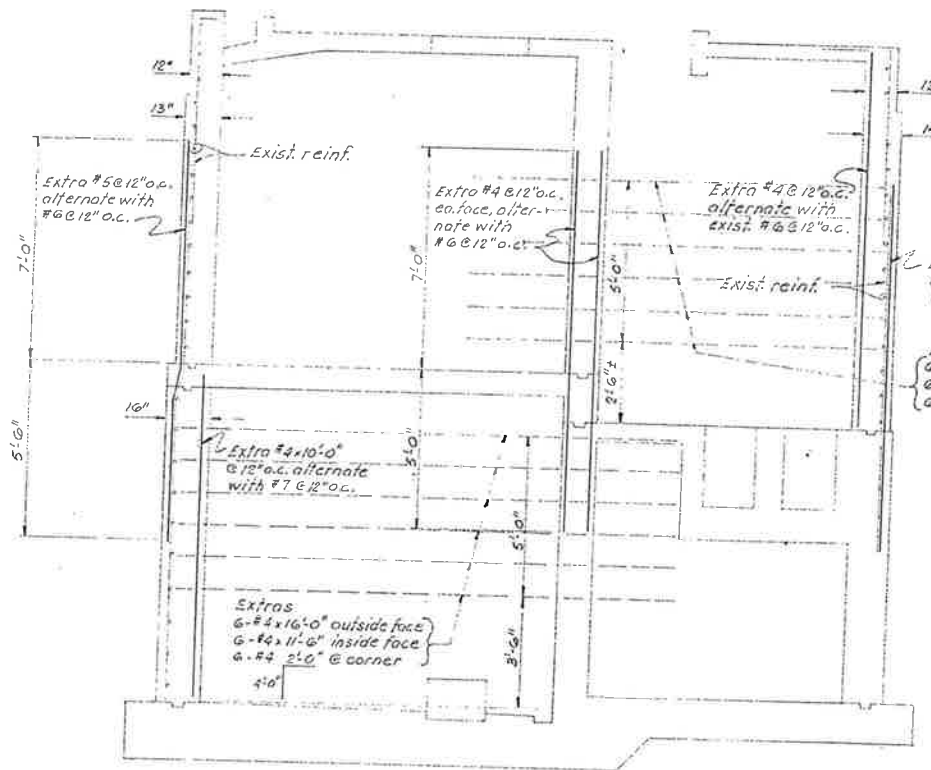
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

APPROVED: [Signature]

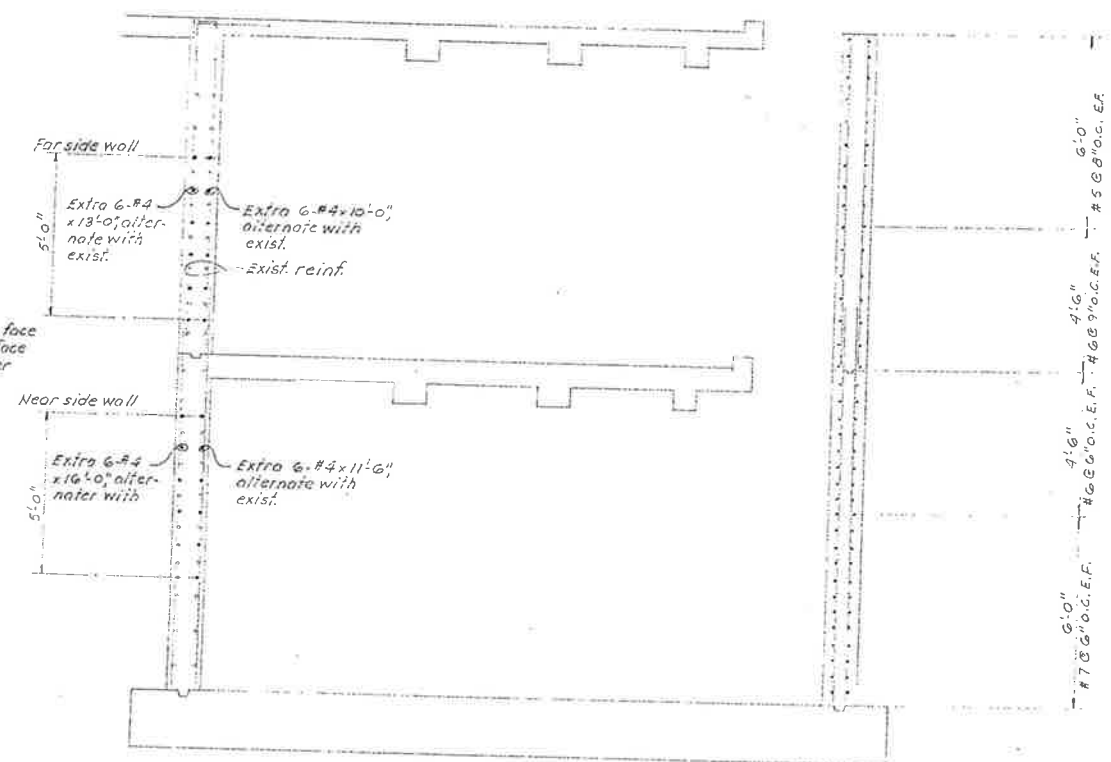
BY DATE
Design JSB 3/76
Drawn AAM 3/76
Chk JSB 3/76
Chk/Comm. JLB 3/76
Proj. Exp. JLB 3/76
Dir. Exp.
Fld. No.

WILSEY & HAM
PUMP STATION
FULL HEIGHT SECTIONS

S2
S9
SHEET NO. 11-1892-0902-65
SCALE: 3/8" = 1'-0"
DATE: MAR. 1976



REFERENCE TO SECTION 1
51 52



REFERENCE TO SECTION 2
51 52

BY	DATE	REVISIONS

APPROVED:	BY	DATE

WILSEY & HAM

PUMP STATION REINFORCING REVISIONS

CHANGE ORDER No. 5

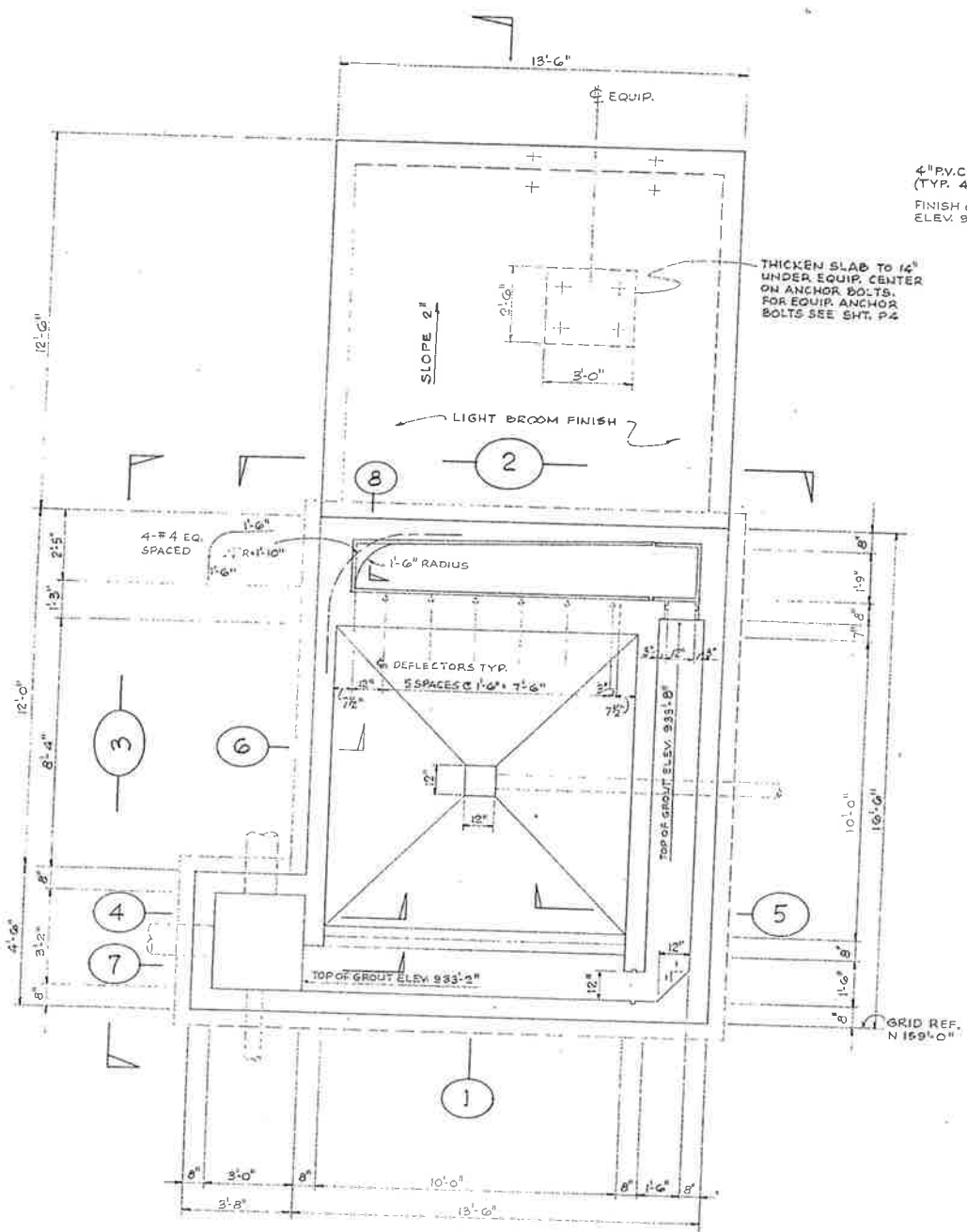
S2A

DEWG. NO.

1-1892-0906-41

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

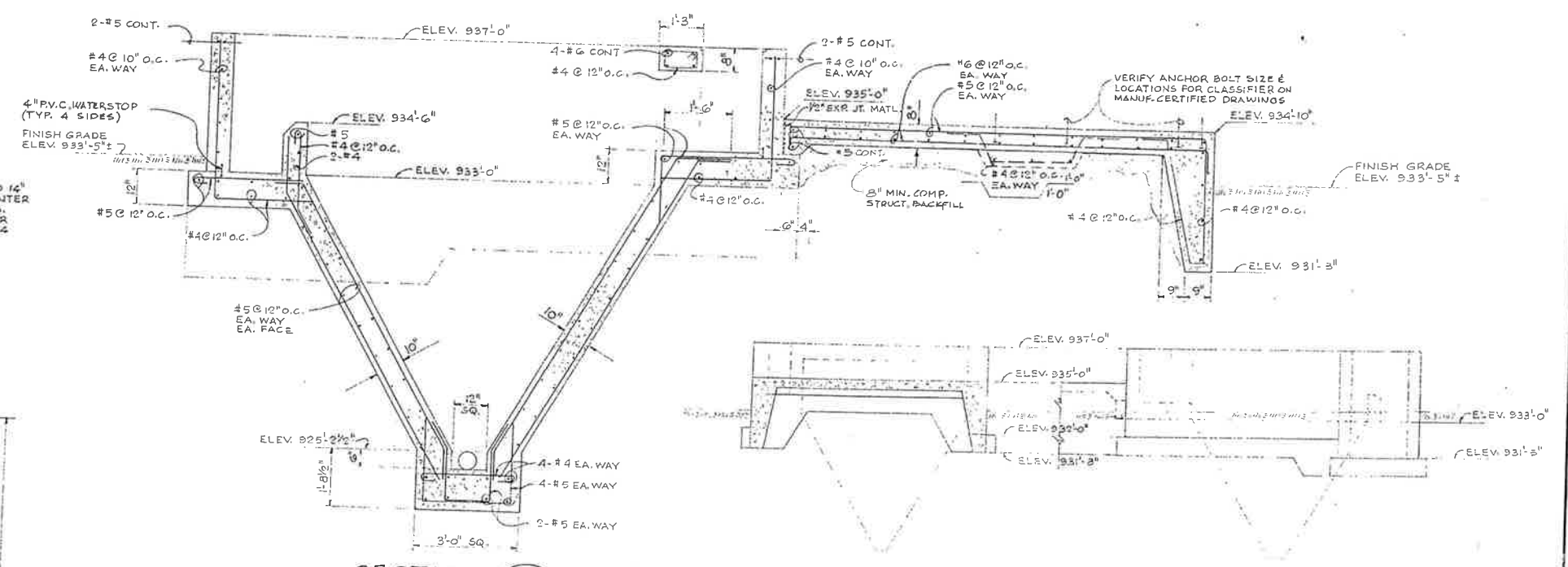
DATE: Dec. 1976



GRIT CHANNEL PLAN
3/8" x 1'-0"

NOTE: FOR SIZE AND LOCATIONS OF PIPES
SEE PROCESS DRAWINGS.

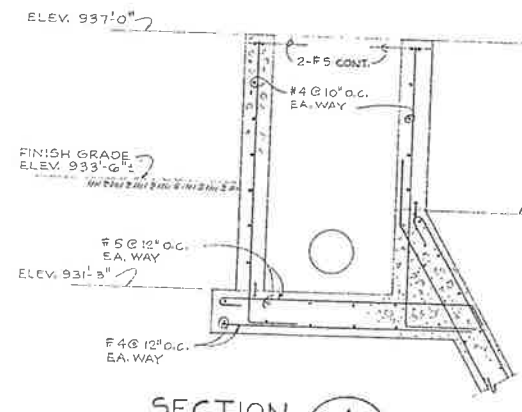
GRID REFERENCE
N 1930'-0"



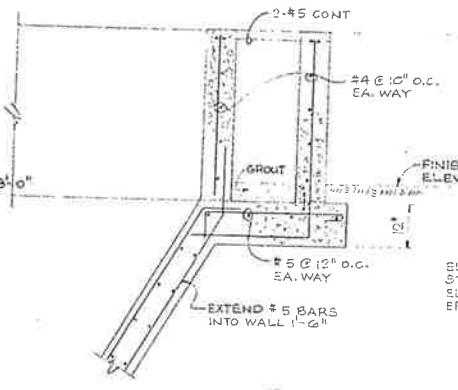
SECTION 1
1/2" x 1'-0"

ELEVATION 2
1/4" x 1'-0"

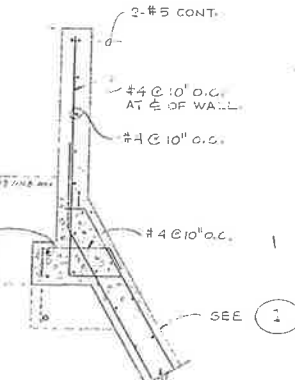
ELEVATION 3
1/4" x 1'-0"



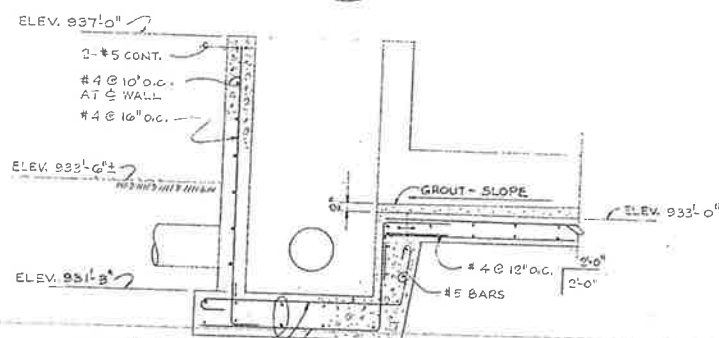
SECTION 4
1/2" x 1'-0"



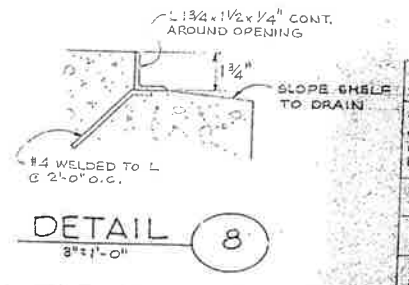
SECTION 5
1/2" x 1'-0"



SECTION 6
1/2" x 1'-0"



SECTION 7
1/2" x 1'-0"



DETAIL 8
3/4" x 1'-0"

FINISH SCHEDULE

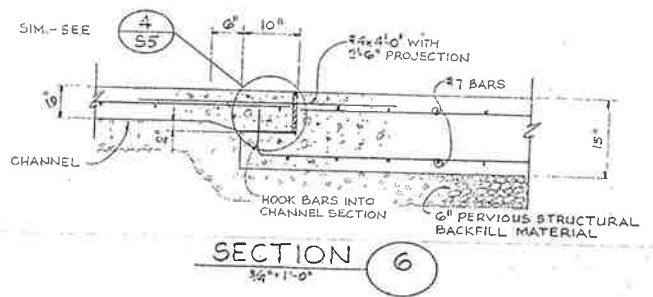
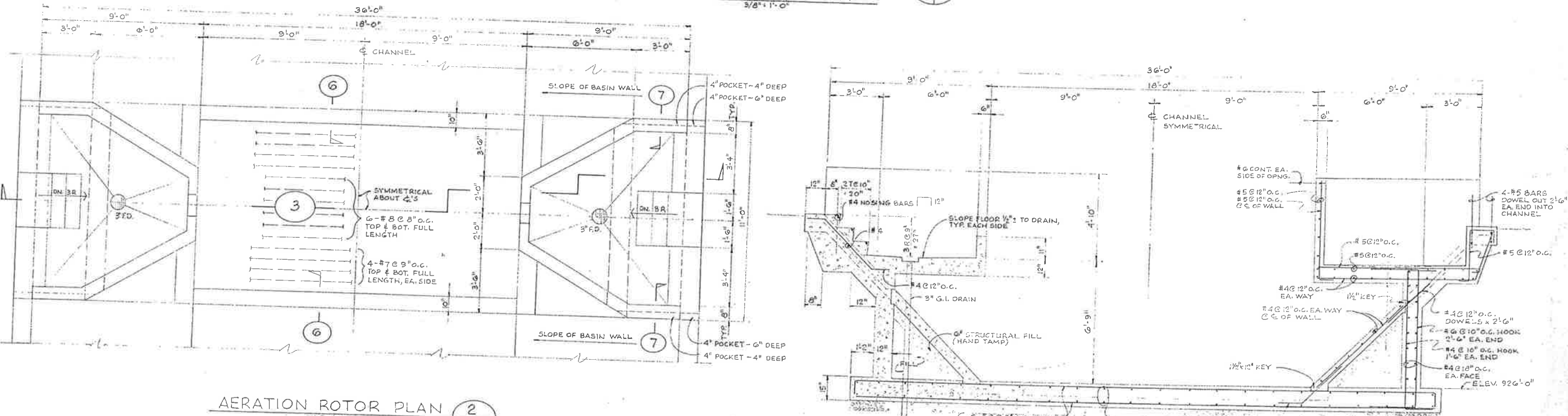
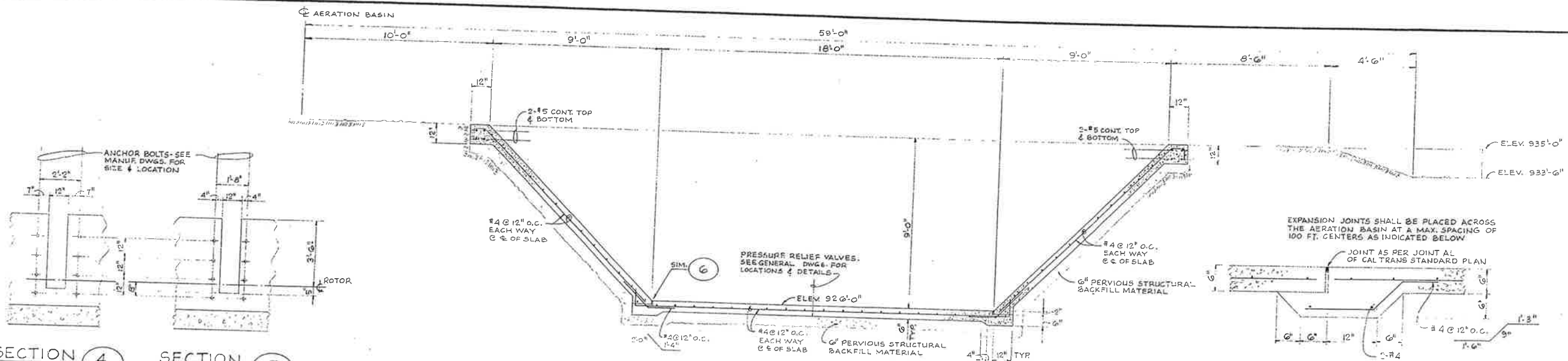
ITEM	PAINT	REMARKS
Tank interior from top of wall to 2' below water surface and channels and boxes interior walls	Code F	Smooth finish concrete
Channels and boxes bottom	Code F	Steel trowel finish
Tank interior more than 2' below water surface	None	Smooth finish concrete
Exterior walls above grade	Code E	Smooth finish concrete
Submerged and intermittently submerged metal and piping	Code C	Except galv. gates
Non-submerged metal and piping	Code A	Except galv. grating

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

WILSEY & HAM
GRIT CHANNEL
PLANS & DETAILS

S3
S9

DEWG 1
1-1892-
SCALE: AS
DATE: M



FINISH SCHEDULE

ITEM	PART	FINISH
Concrete	Form	Smooth, trowel
Asphalt concrete structure above and below 2" and submerged structure from aeration tanks & floors	Side 1	Smooth, trowel concrete or steel trowel
Reinforced concrete floor structure above tanks	Side 2	Smooth finish concrete
All embedded and exposed metal	Side 3	Galv. steel
All non-embedded metal and piping	Side 4	Factory paint, weathering

CITY OF IMPERIAL, CALIFORNIA

WASTEWATER TREATMENT PLANT

REGISTERED PROFESSIONAL ENGINEER

WILSEY & HAM

6.22.76

NO. 15905

IMPERIAL COUNTY, CALIFORNIA

Professional Seal

BY	DATE
Design	JSB 3/76
Drawn	AAM 3/76
Chd./Cont.	JSB 3/76
Prof. Eng.	JLB 3/76
Dir. Eng.	
Proj. No.	

WILSEY & HAM

AERATION BASIN

S4

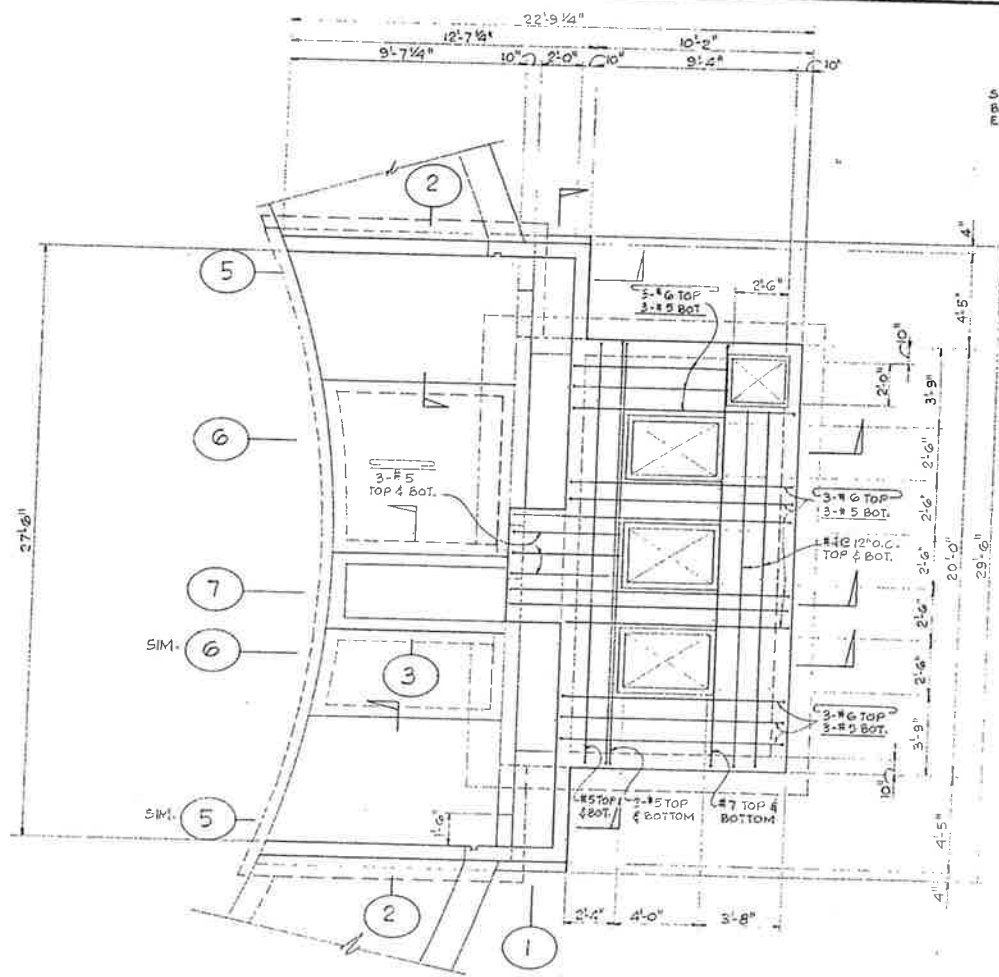
S9

DEWG. NO. 1-1892-0902

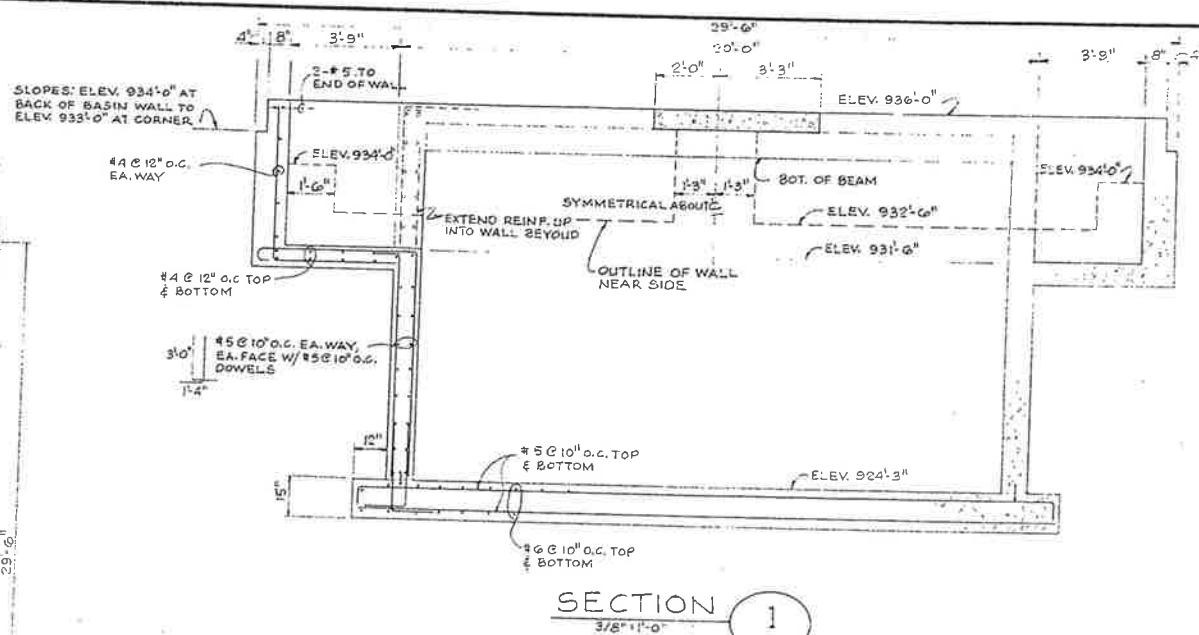
SCALE 3/8" = 1"

DATE: MAR.

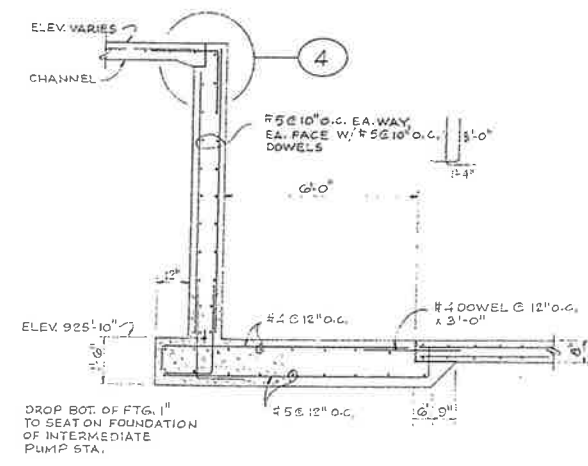
BY	DATE	REVISIONS



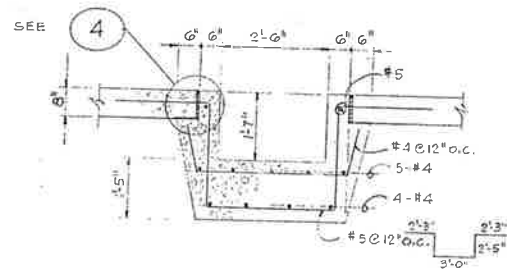
EFFLUENT WEIR & INTERMEDIATE PUMP STATION PLAN
1/4" = 1'-0"



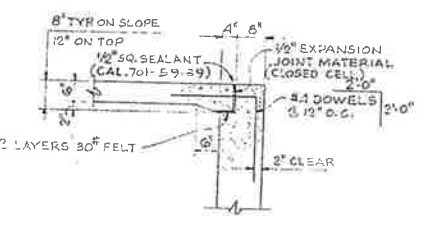
SECTION 1
3/8" = 1'-0"



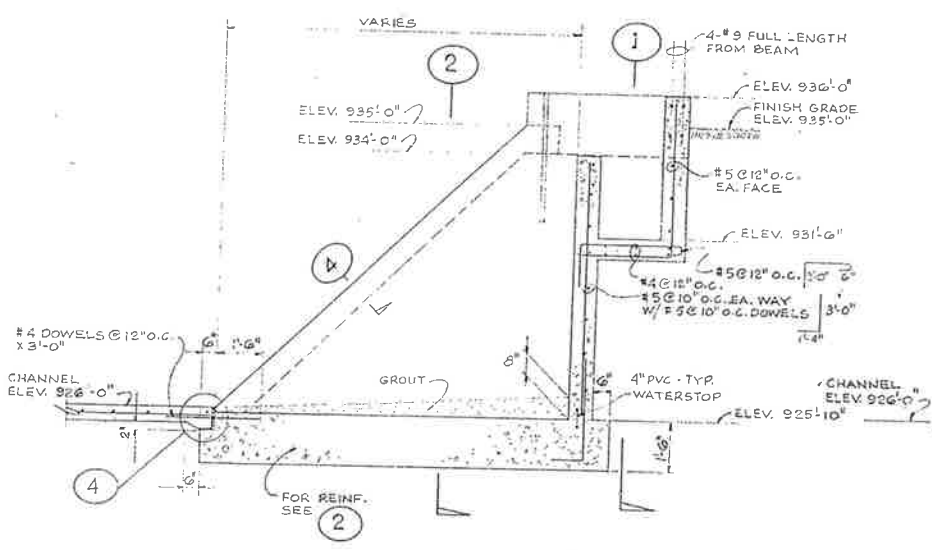
SECTION 2
3/8" = 1'-0"



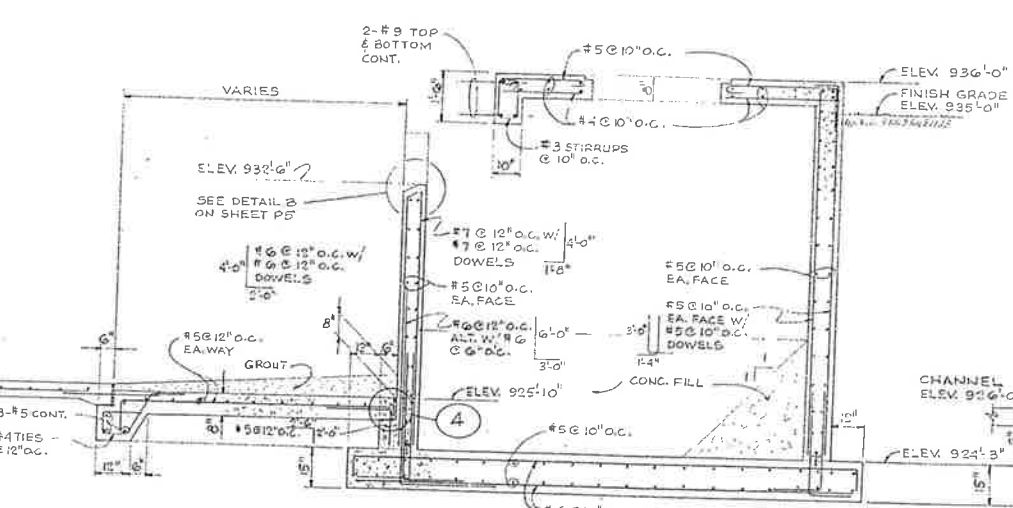
SECTION 3
1/2" = 1'-0"



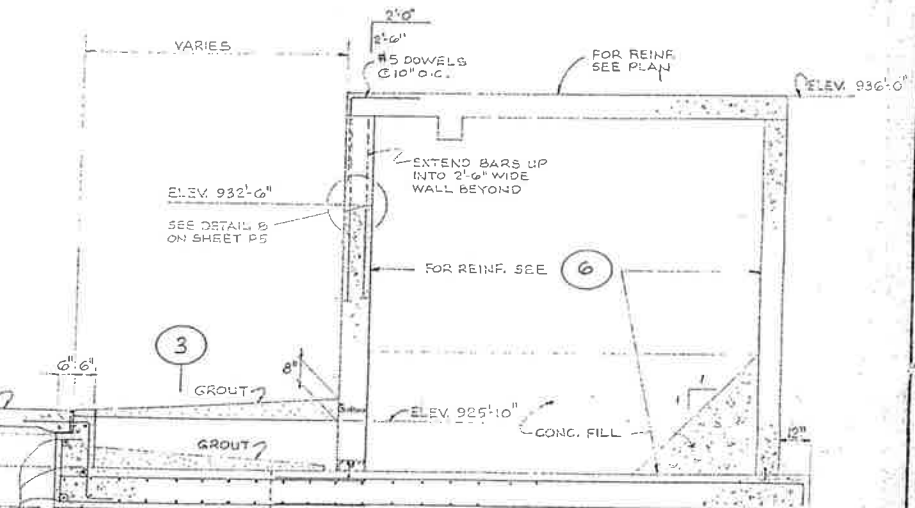
DETAIL 4
1/2" = 1'-0"



SECTION 5
3/8" = 1'-0"



SECTION 6
3/8" = 1'-0"



SECTION 7
3/8" = 1'-0"

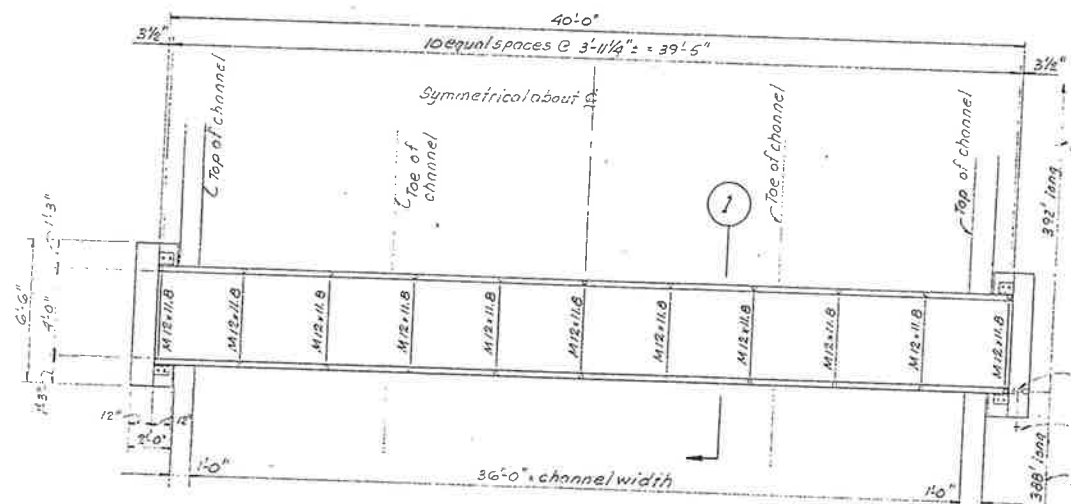
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

BY	DATE
Design	JSB 3/76
Drawn	AAM 3/76
Chk.	JSB 3/76
Coll./Coord.	
Prof. Eng.	JLB 3/76
Dir. Eng.	
IN. PL. No.	

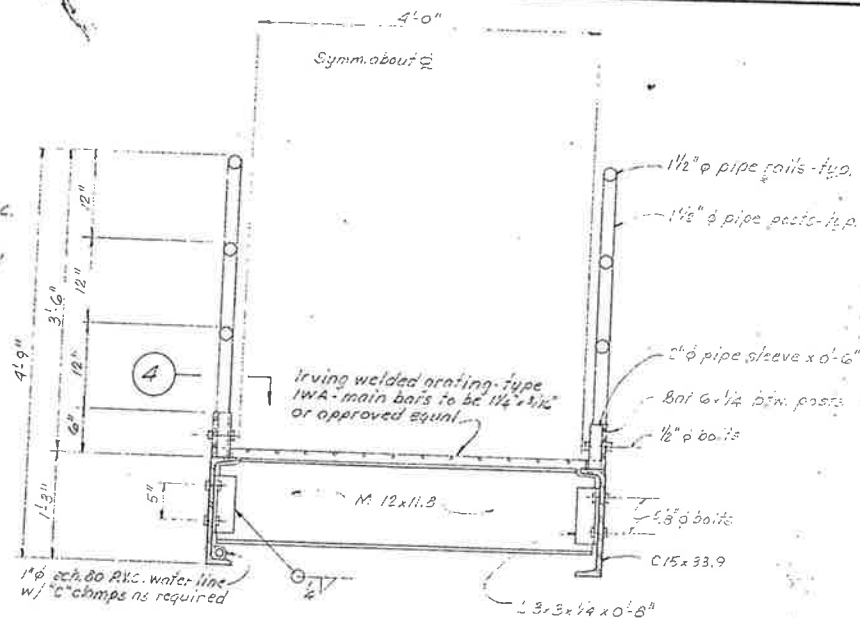
WILSEY & HAM
AERATION BASIN EFFLUENT BOX
& PUMP STATION

S5
S9
DWG. NO.
1-1892-0902-65
SCALE: AS NOTED
DATE: MAR 1976

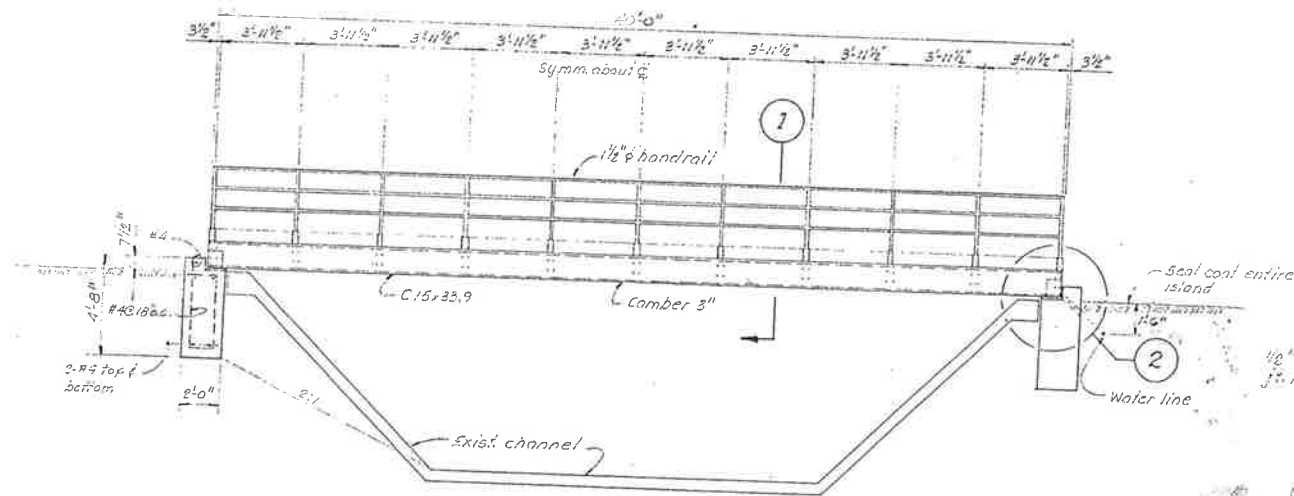
BY	DATE	REVISIONS



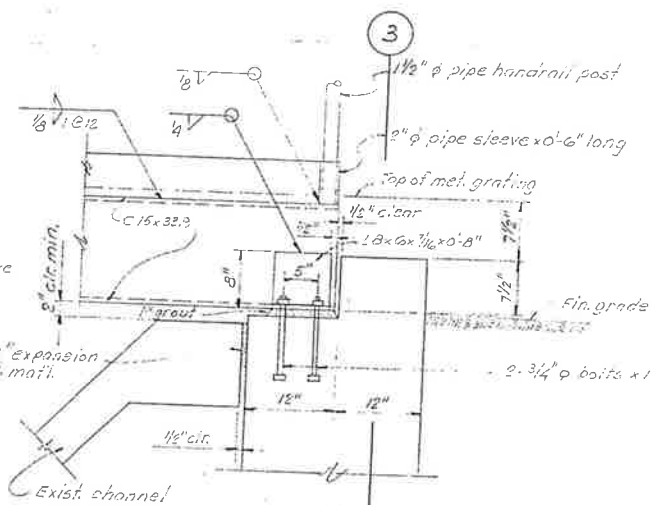
BRIDGE PLAN
1/4" = 1'-0"



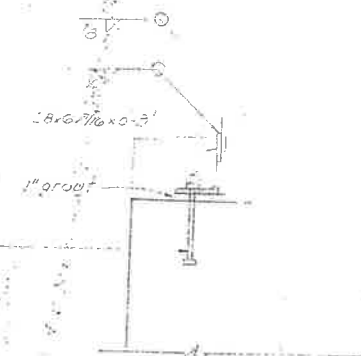
TYPICAL SECTION 1
1" = 1'-0"



ELEVATION
1/4" = 1'-0"



DETAIL 2
1" = 1'-0"



DETAIL 3
1" = 1'-0"

Notes.

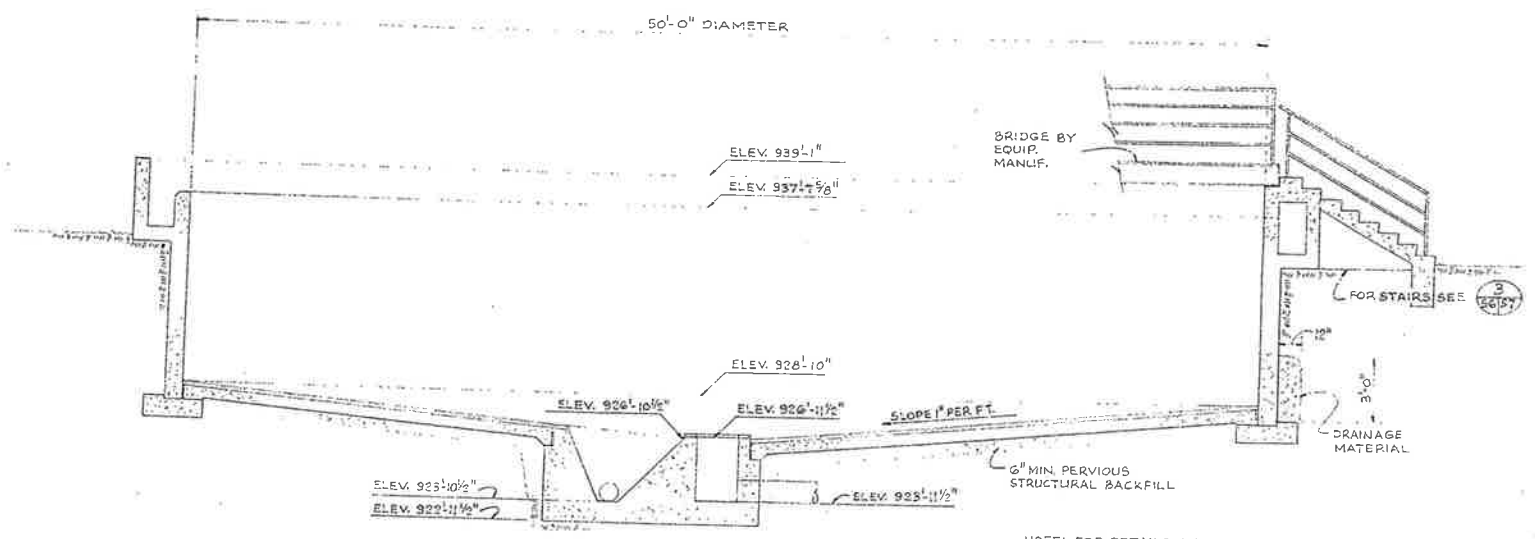
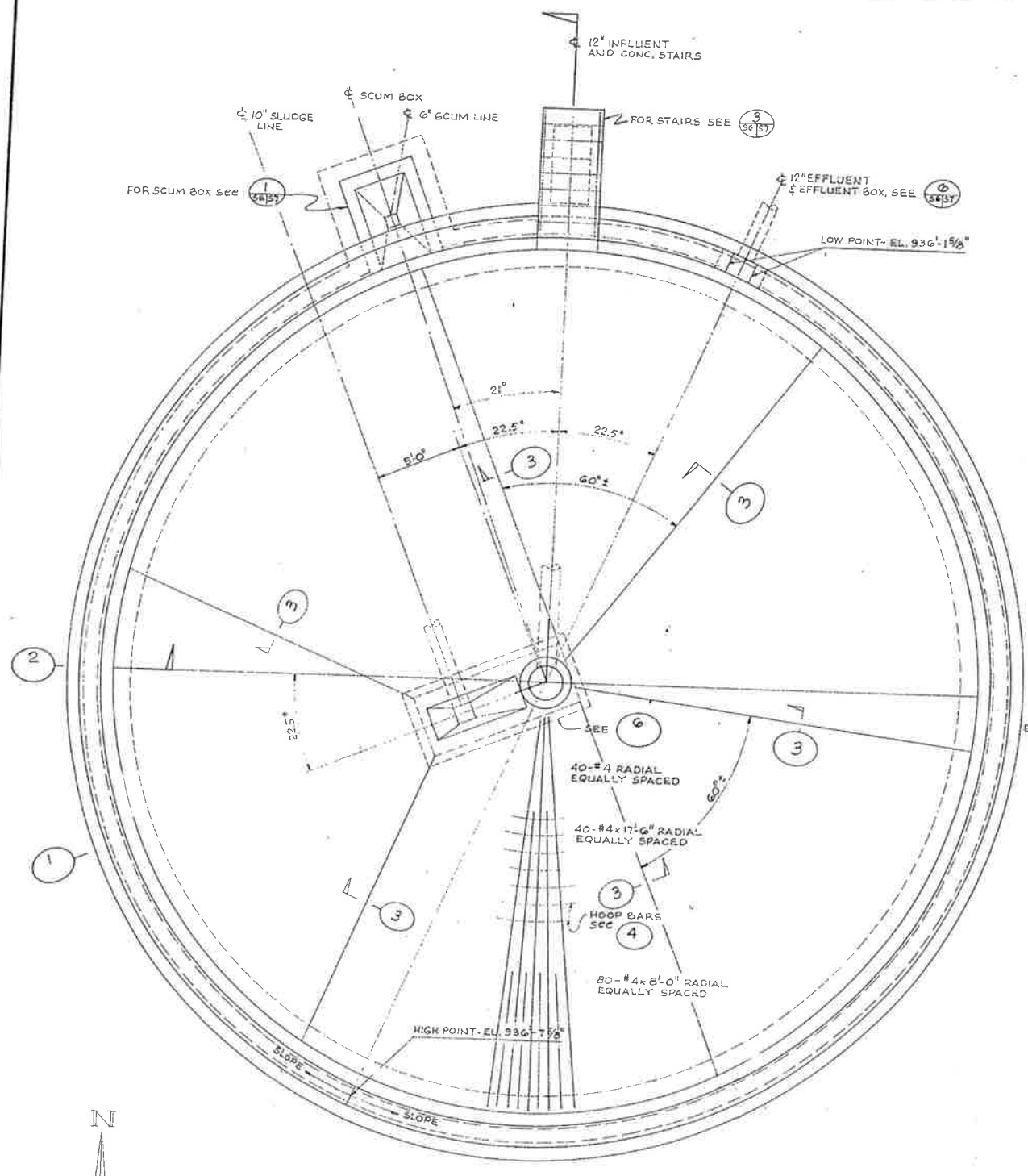
1. Locate bridge at center of aeration basin on the south side.
2. Install a 4'-0" wide gate in the chain link fence opposite to the bridge in accordance to standard details as shown on sheet G4 of the Wastewater Treatment Plant drawings.
3. All members and fittings of the bridge shall be hot dip galvanized.
4. Provide seal coat to the entire island of the aeration basin.

BY	DATE	REVISIONS

APPROVED: 6/21/90

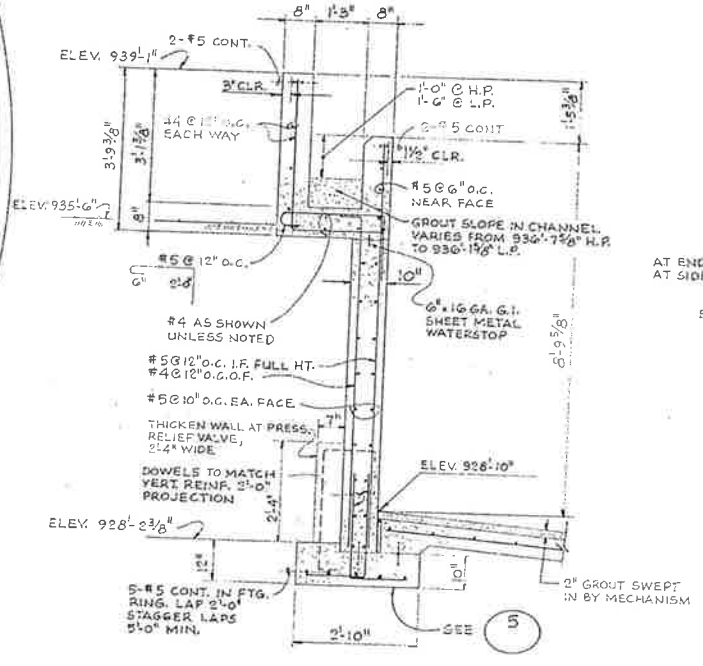
BY	DATE
Design	6/15/90
Drew	6/21/90
Chk	6/27/90
Clk/Const	
Proj. Eng.	
Sup. Eng.	
File No.	

WIL
STEEL
AT
WASTE
City of Newport

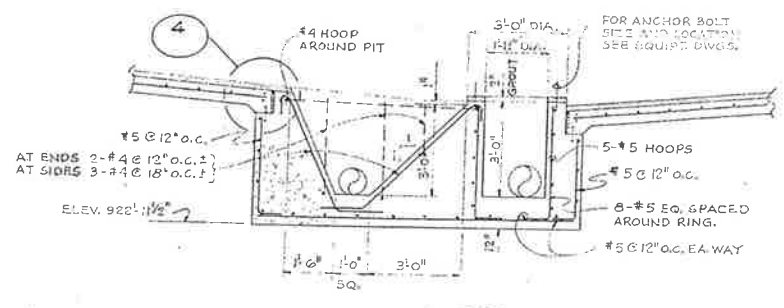


CLARIFIER SECTION 1
1/4" = 1'-0"

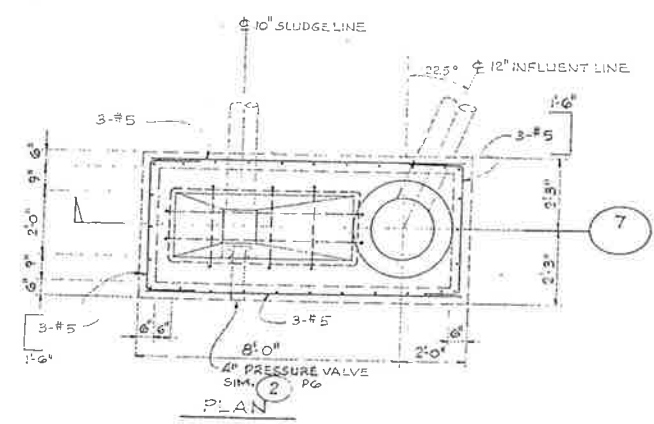
NOTE: FOR DETAILS AND LOCATIONS OF PRESSURE RELIEF VALVES SEE PROCESS DRAWINGS



TYPICAL WALL SECTION 2
1/2" = 1'-0"

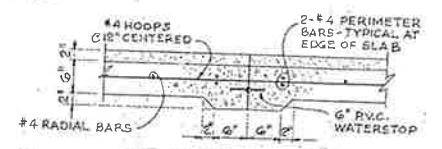


SECTION 7
3/8" = 1'-0"

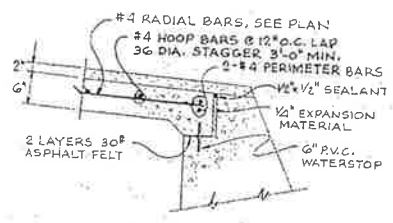


CENTER PIER 6
3/8" = 1'-0"

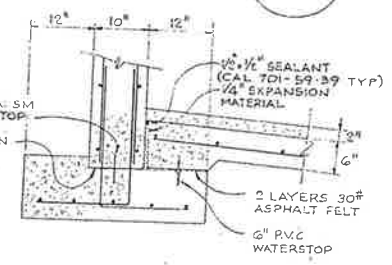
CLARIFIER PLAN
1/4" = 1'-0"



DETAIL 3
3/4" = 1'-0"



DETAIL 4
3/4" = 1'-0"



DETAIL 5
3/4" = 1'-0"

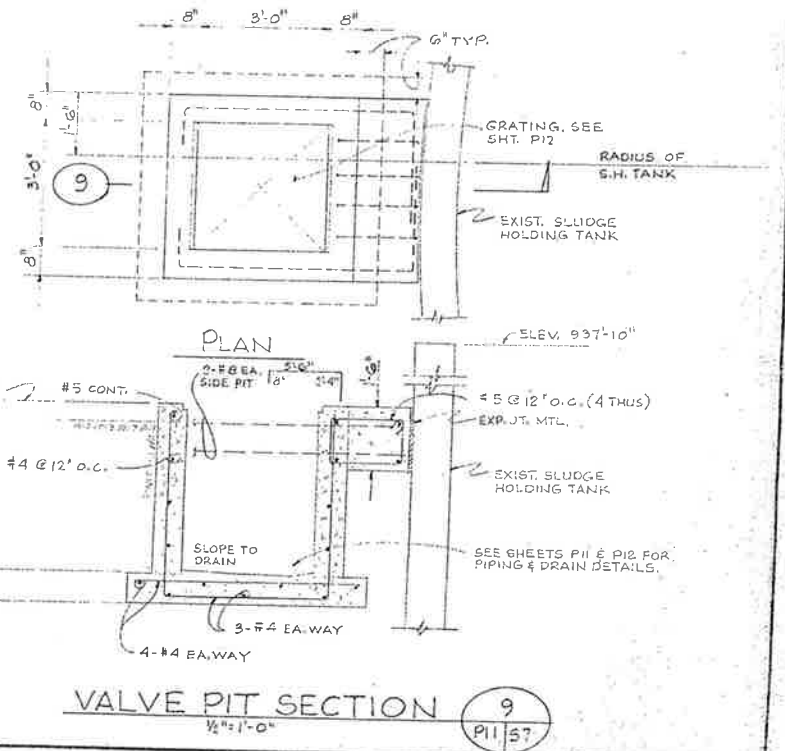
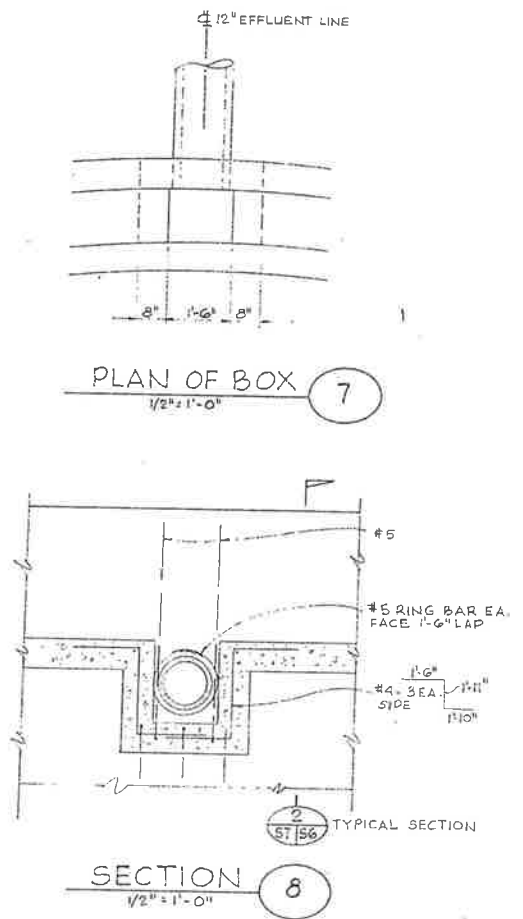
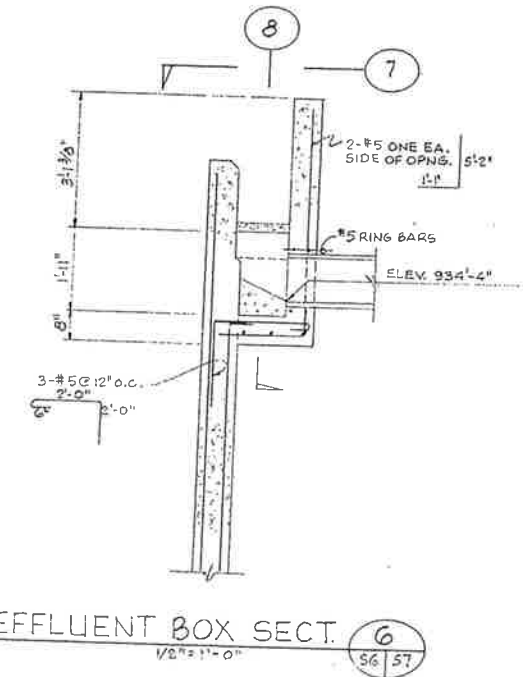
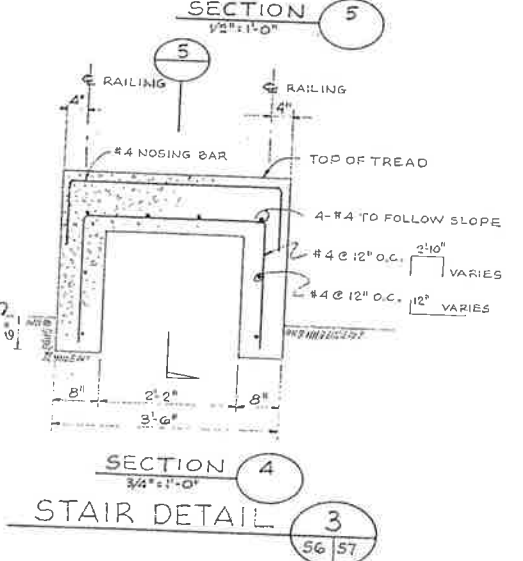
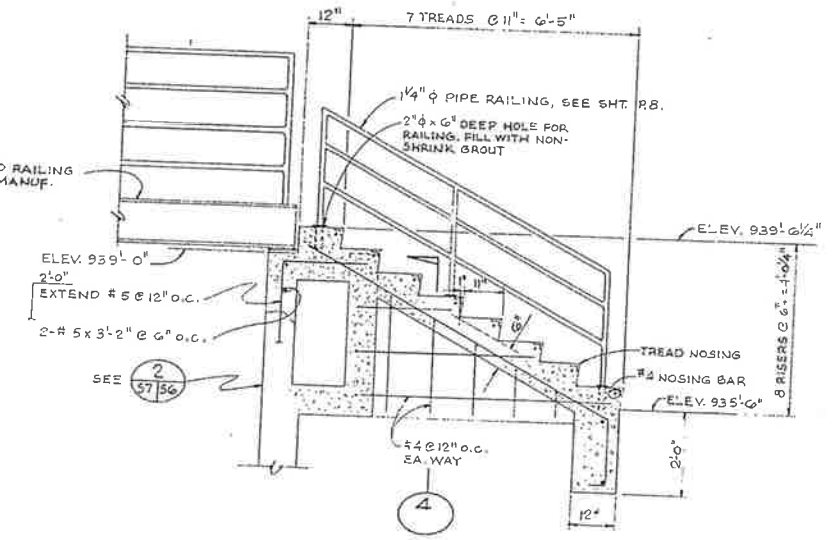
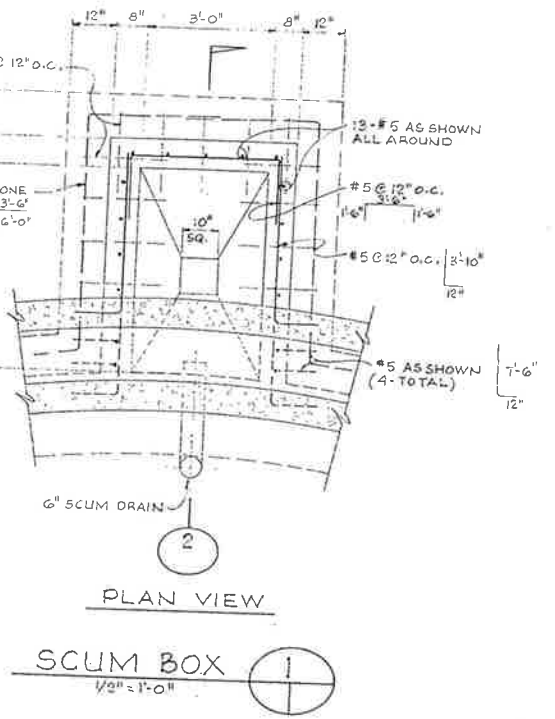
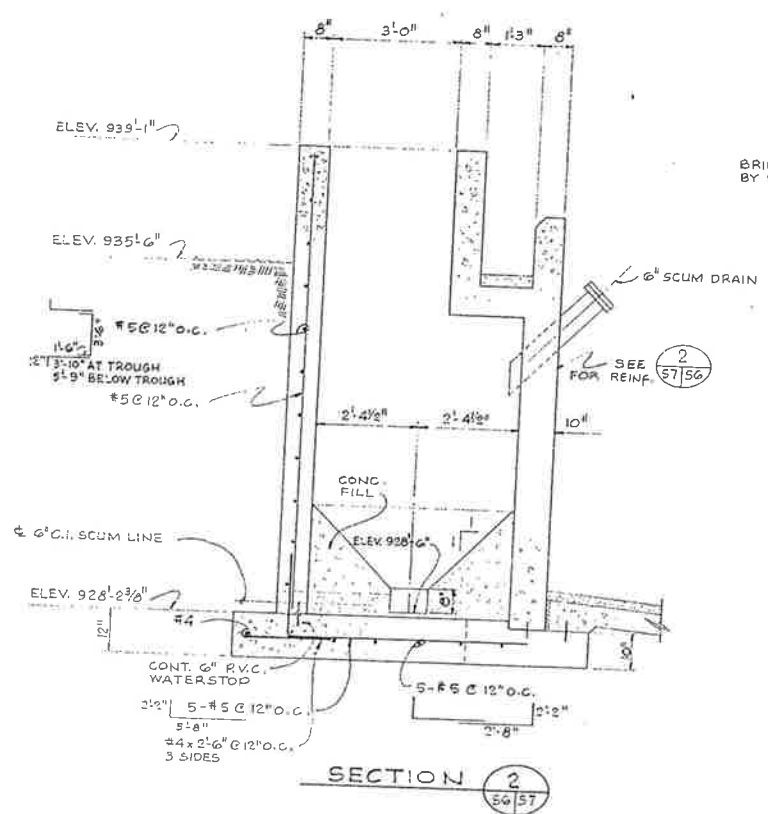
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

DESIGNER	JSB	3/76
DRAWN	AAM	3/76
CHECKED	JSB	3/76
DATE		
BY	DATE	
DATE		

WILSEY & HAM
CLARIFIER NO. 3
PLANS & DETAILS

S6
S9
REV. NO. 1-1892-0902-65
SCALE: AS NOTED
DATE: MAR. 1976

NO.	BY	DATE	REVISIONS



CLARIFIERS FINISH SCHEDULE

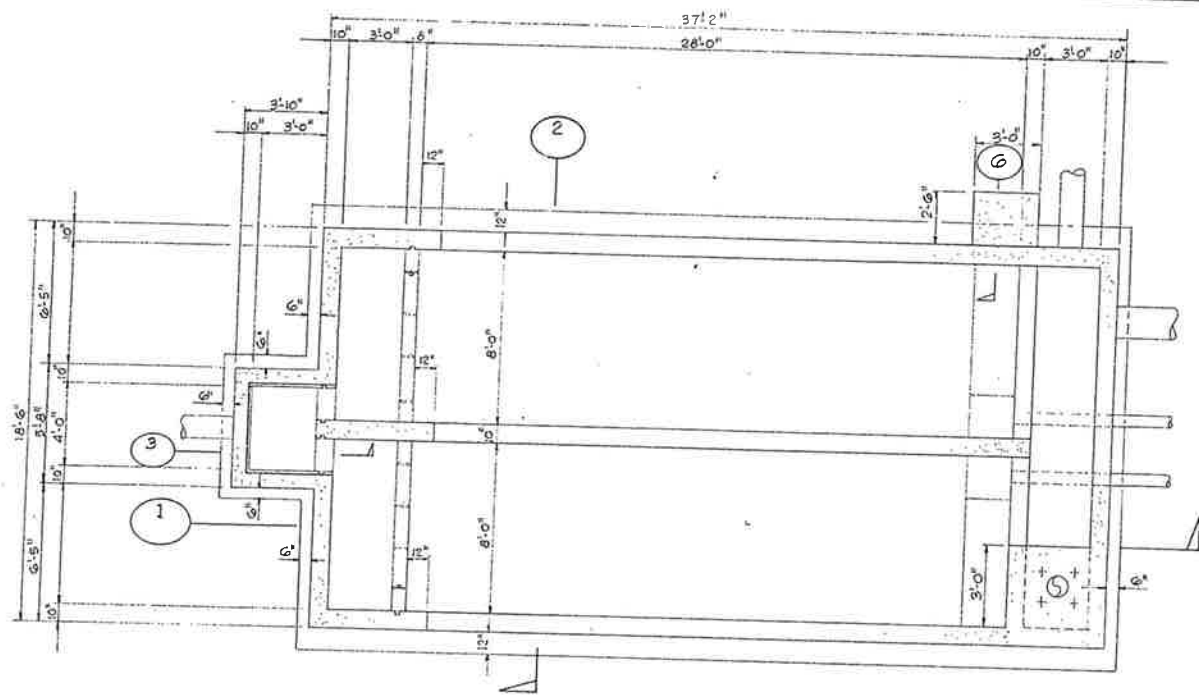
ITEM	PAINT	REMARKS
Clarifier Nos. 1, 2 & 3 Tank interior, iron top of wall to 3' below water surface	Code F	Smooth finish form concrete Steel truss steel floors
Channels and boxes, interior walls and floors		Remove existing paint by sandblast
Clarifier box 1, 2 & 3 Exterior walls, above grade	Code E	Smooth finish concrete Remove existing paint by sandblast
Clarifier Nos. 1 & 2 Submerged and intermittently submerged metal and piping below level of bridge	Code C	Wear white enamel cleaning resistant paint Clarifier No. 2 paint white and galvanized only; Code F + 005 Additional finished steel
Clarifier Nos. 1, 2 & 3 Work Above and below and piping, bridge, etc.	Code B	Commercial, industrial cleaning resistant paint except galv. metal

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

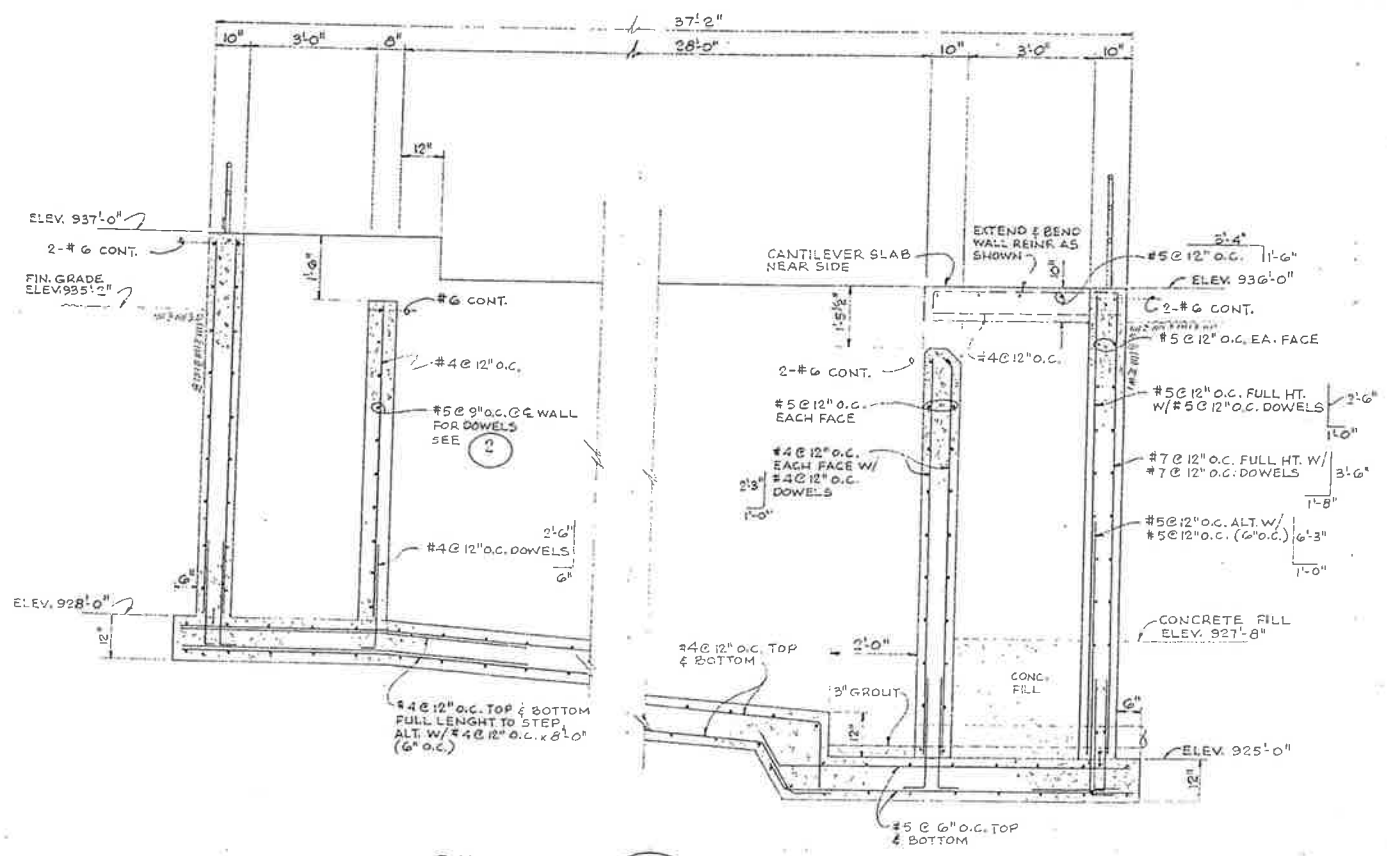
WILSEY & HAM
CLARIFIER NO. 3
DETAILS

BY DATE
Drawn JSB 3/76
Checked AAM 3/76
Designed JSB 3/76
Ck'd/Concl. JLB 3/76
Proj. Eng. JLB 3/76
Rev. Eng.
No. of Sheets

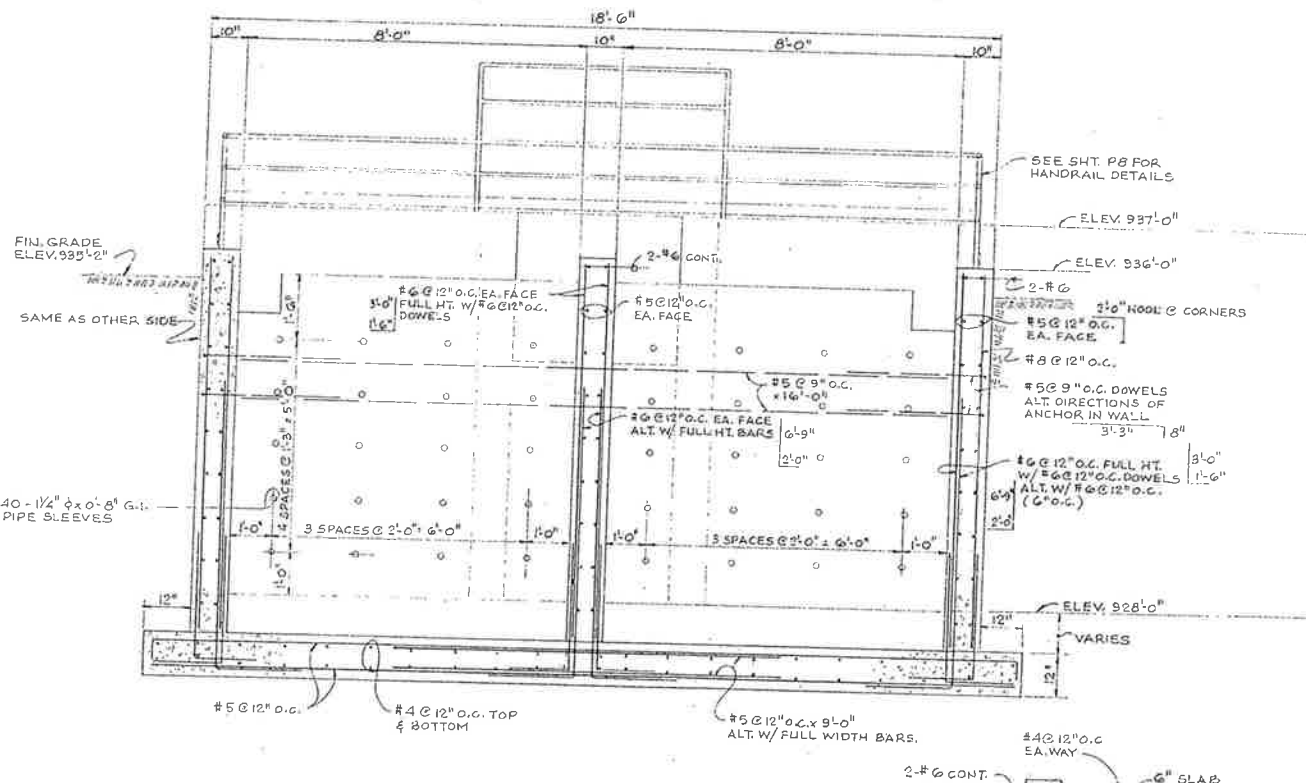
S7
S9
SCALE: AS NOTED
DATE: MAR 1976



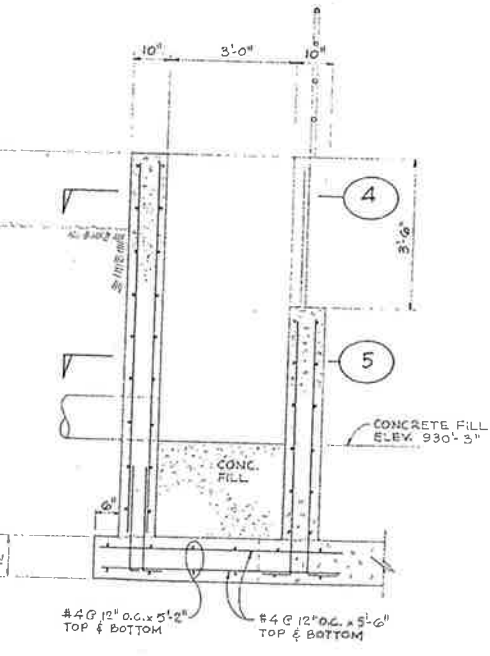
CHLORINE CONTACT PLAN
1/4" = 1'-0"



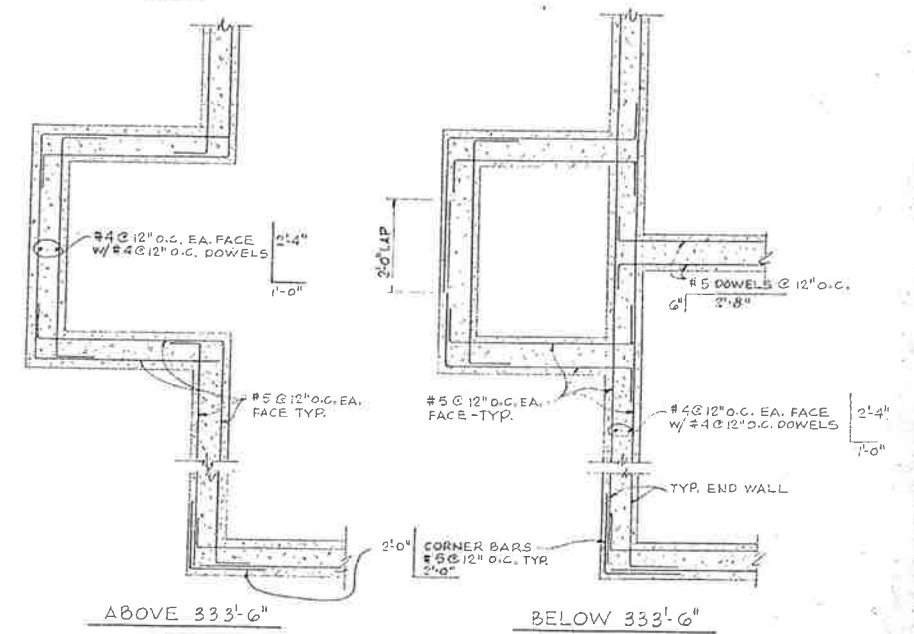
SECTION 1
1/2" = 1'-0"



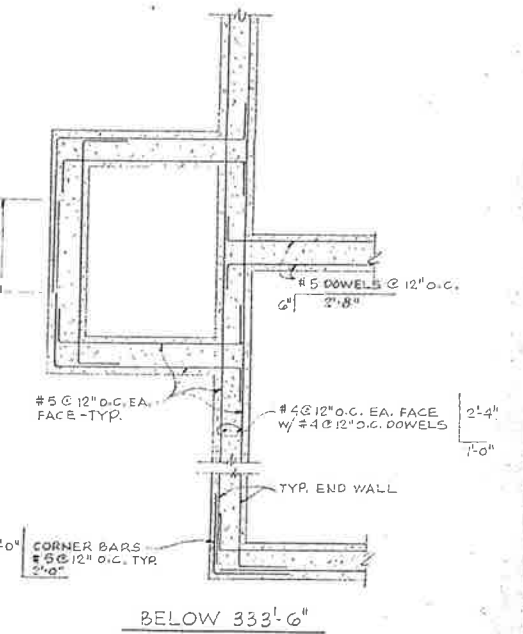
SECTION 2
1/2" = 1'-0"



SECTION 3
1/2" = 1'-0"



PLAN 4
1/2" = 1'-0"



PLAN 5
1/2" = 1'-0"

BY	DATE	REVISIONS

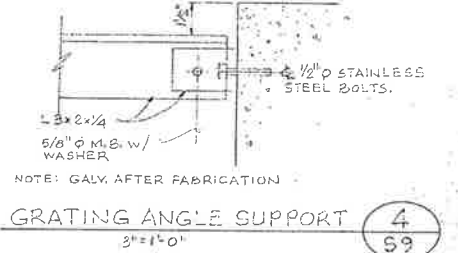
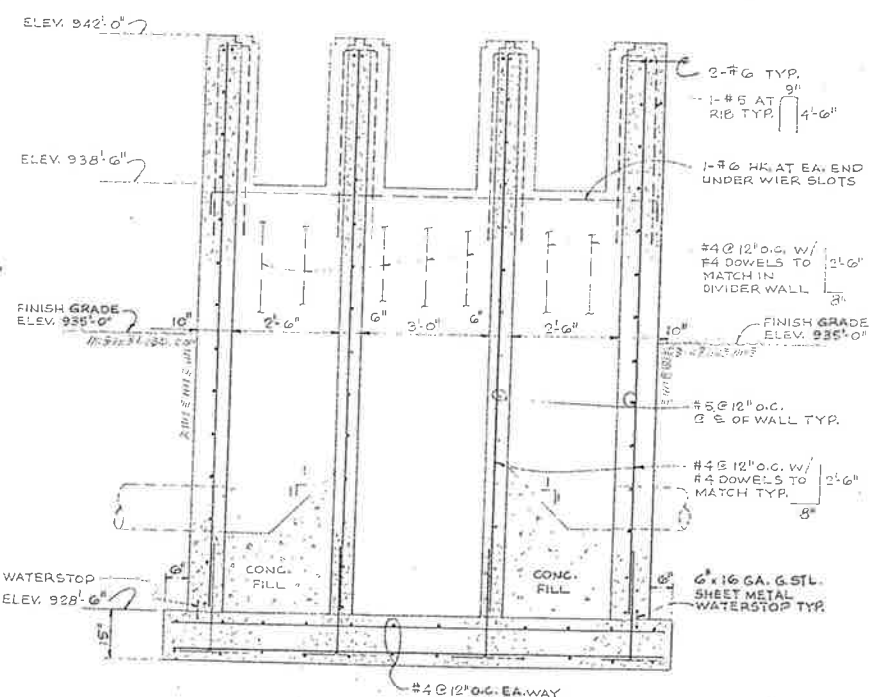
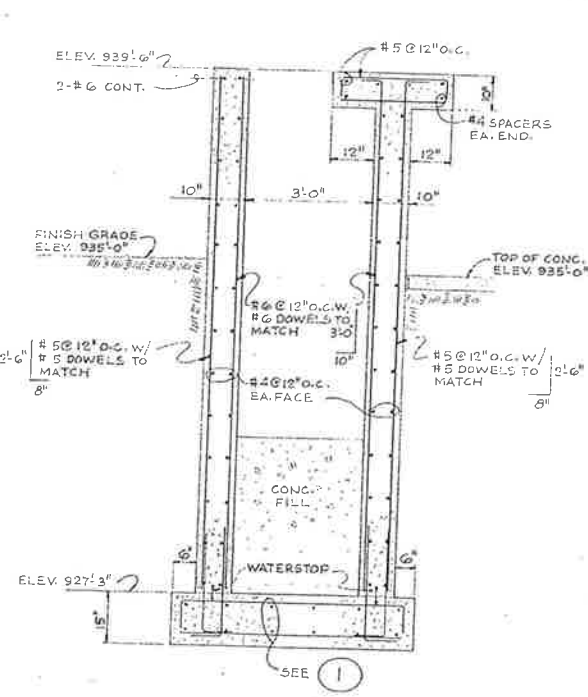
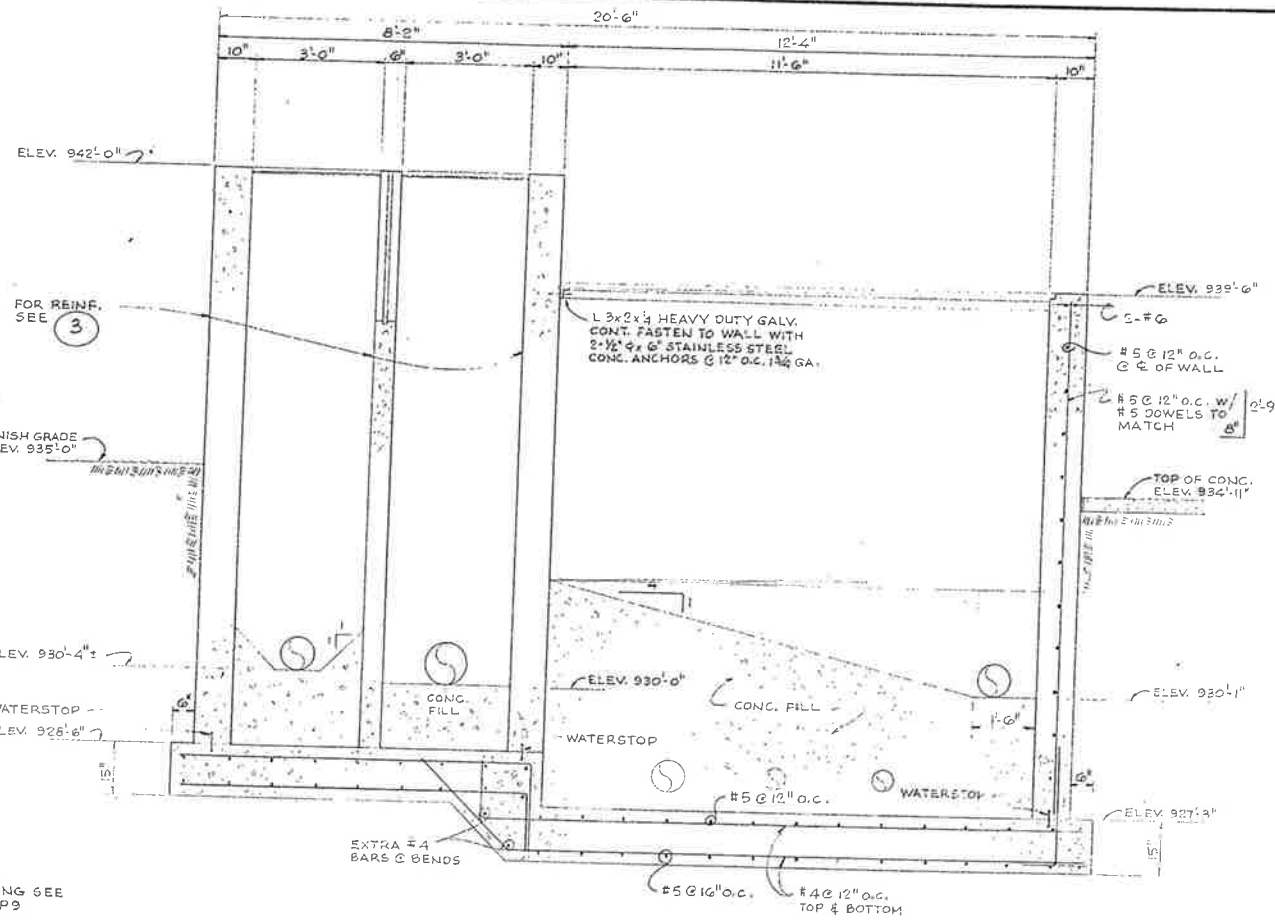
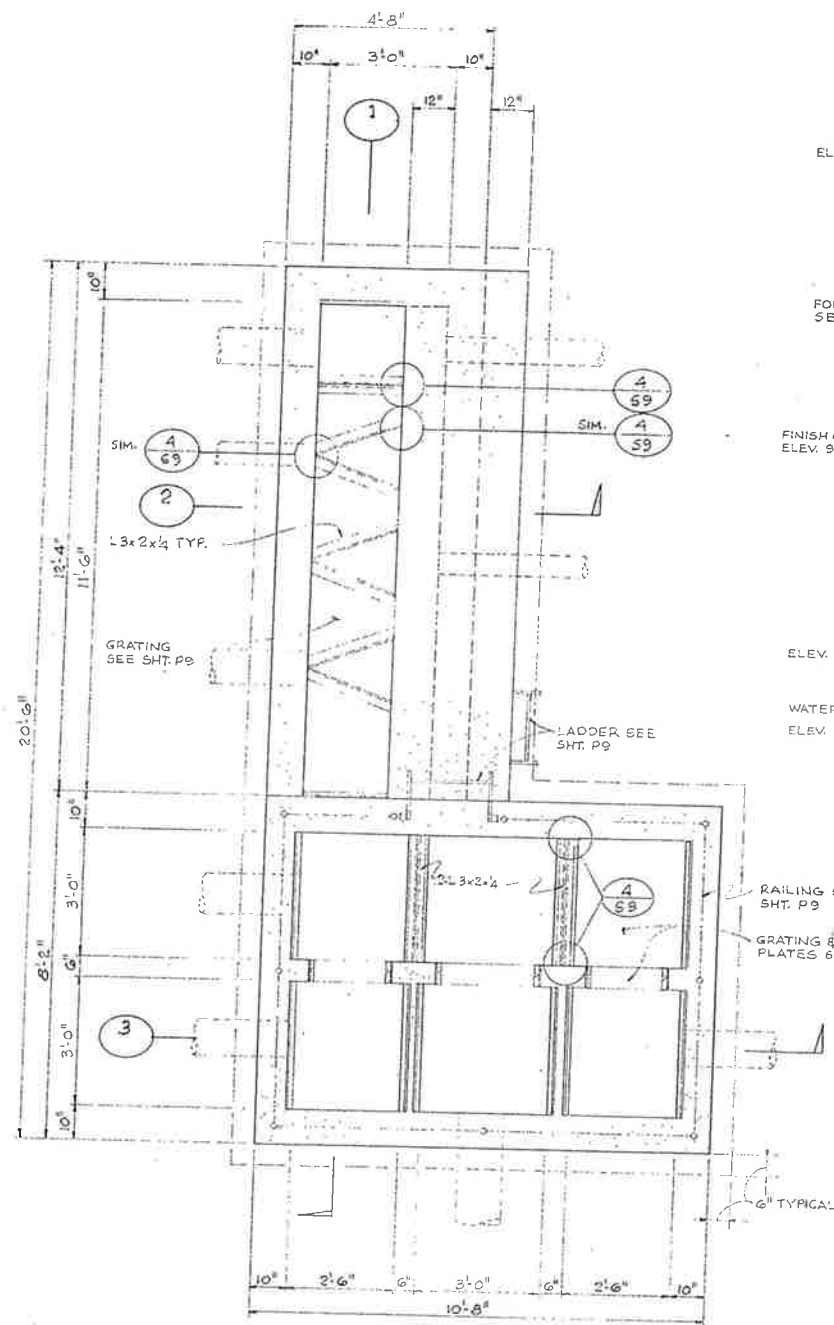
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT



BY	DATE
Design	JSB 3/76
Drawn	AAM 3/76
Chk./Comm.	JSB 3/76
Proj. Eng.	JLB 3/76
Dist. Eng.	
File No.	

WILSEY & HAM
CHLORINE CONTACT BASIN

S8
S9
DRAWING NO.
1-1892-0902-65
SCALE: AS NOTED
DATE: MAR. 1976



FINISH SCHEDULE CHLORINE CONTACT BASIN

TYPE	PAINT	REMARKS
Tank interior from top of wall to 2' below water surface Influent & Effluent boxes Interior walls and floors	Code F	Smooth finish form concrete Steel trowel finish floors
Exterior walls above grade	Code E	Smooth finish form concrete
Submerged and intermittently submerged metal and piping below top of wall	Code C	Except Alum. gates
Non-submerged metal and piping above top of wall	Code A	Except galvanized metal and alum.

FINISH SCHEDULE CONTROL STRUCTURE, SEPTIC TANK DDM, AND METERING & BYPASS MANHOLES

TYPE	PAINT	REMARKS
Tank interior	Code F	Smooth finish form concrete Steel trowel finish floors
Exterior walls above grade	Code E	Smooth finish form concrete
Submerged and intermittently submerged metal and piping below top of wall	Code C	Except Alum. gates
Non-submerged metal and piping above top of wall	Code A	Except galvanized metal and alum.

BY	DATE	REVISIONS

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

BY	DATE
Design	JSB 3/76
Drawn	AAM 3/76
Chk.	JSB 3/76
Chk./Const.	
Proj. Eng.	JLB 3/76
Dist. Eng.	
Tit. B. No.	

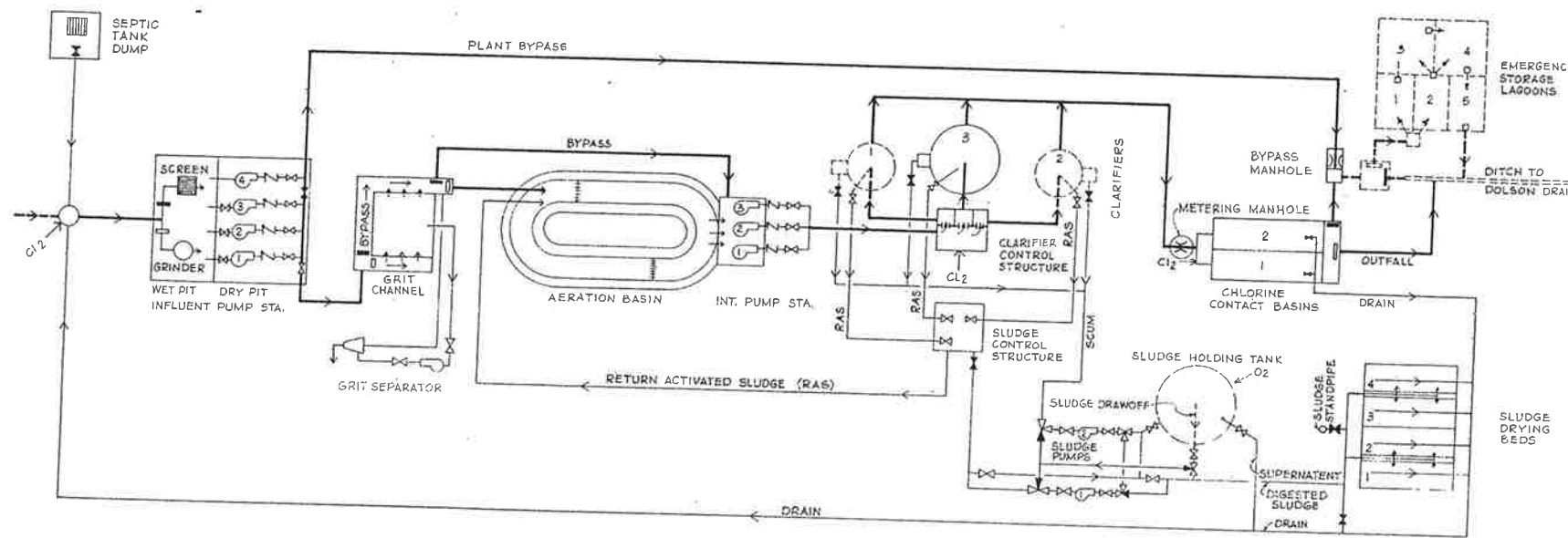
WILSEY & HAM
CONTROL STRUCTURE
PLANS & SECTIONS

S9
S9
DWG. NO.
1-1892-0902-65
SCALE: 1/2" = 1'-0"
DATE: MAR 1976

LEGEND

PROCESS SCHEMATIC SYMBOLS VALVE & PIPE SYMBOLS

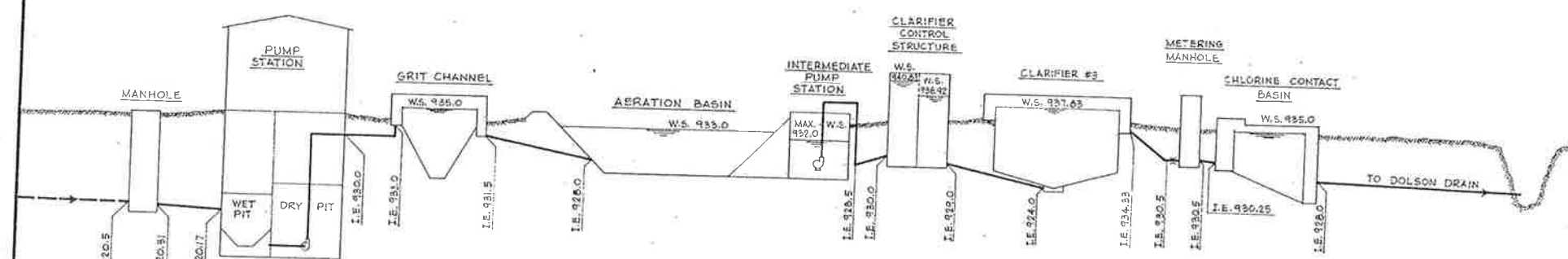
	NEW STRUCTURE		GV GATE VALVE
	EXISTING STRUCTURE		BFV BUTTERFLY VALVE
	NEW PLANT FLOW PIPE		PV PLUG VALVE
	EXISTING PLANT FLOW PIPE		PV 3-WAY PLUG VALVE
	NEW SLUDGE OR DRAIN PIPE		CY CHECK VALVE
	EXISTING SLUDGE OR DRAIN PIPE		6" RING PIPE
	VALVE		MJ MECHANICAL JOINT PIPE
	3-WAY VALVE		FLANGED PIPE
	VALVE NORMALLY CLOSED		WELDING NECK FLANGE
	SLIDE GATE		GC GROOVED COUPLING
	SLIDE GATE NORMALLY CLOSED		EJ EXPANSION JOINT
	FLOW METER		FC FLEXIBLE COUPLING
	PUMP		
W.S.	WATER SURFACE (ELEVATION)		
I.E.	INVERT ELEVATION		



PROCESS SCHEMATIC

PROCESS DESIGN DATA

DESIGN POPULATION	5,000 PE	INTERMEDIATE PUMP STATION	
RAW SEWAGE CHARACTERISTICS		VARIABLE SPEED PUMPS	2 @ 950 GPM
ANNUAL AVERAGE FLOW	0.7 MGD	FIXED SPEED PUMPS	1 @ 750 GPM
MINIMUM DAILY FLOW	0.2 MGD		
PEAK DAILY FLOW	1.4 MGD	CLARIFIERS	
BIOCHEMICAL OXYGEN DEMAND	200 MG/L	DIAMETER	24 FT.
SUSPENDED SOLIDS	250 MG/L	2 EXISTING	50 FT.
	1,500 PPD	1 NEW	245 GDSF
		OVERFLOW RATE	20.4 PDSF
		SOLIDS LOADING RATE	2 EXISTING
		DETENTION TIME	5.2 HR.
		1 NEW	6.6 HR.
		CHLORINATION SYSTEM	
		CHLORINE CONTACT BASIN	
		NUMBER	2
		DETENTION TIME	1 HR.
		CHLORINATOR	
		NUMBER	2
		CAPACITY EACH	200 PPD
		SLUDGE HOLDING TANK	
		VOLUME	100,000 GAL.
		DETENTION TIME	45 DAYS
		VOLATILE SOLIDS LOADING	150 PPD
		OXYGEN TRANSFER CAPACITY	250 PPD
		BLOWERS, 2 @ 500 SCFH	600 SCFH
		SLUDGE PUMPS, 2 @ 100 GPH	200 GPH
		SLUDGE DRYING BEDS	
		NUMBER	4
		AREA, 4 @ 1250 SQ. FT.	5,000 SQ. FT.
		LOADING	28 PSF/YR.



HYDRAULIC PROFILE

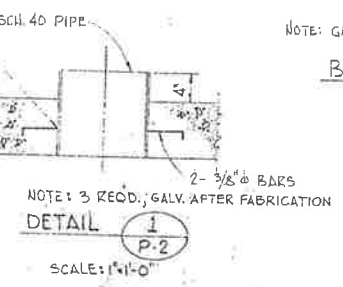
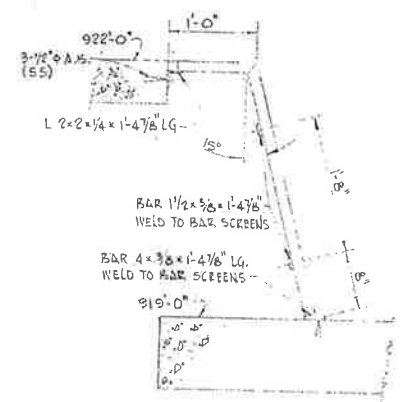
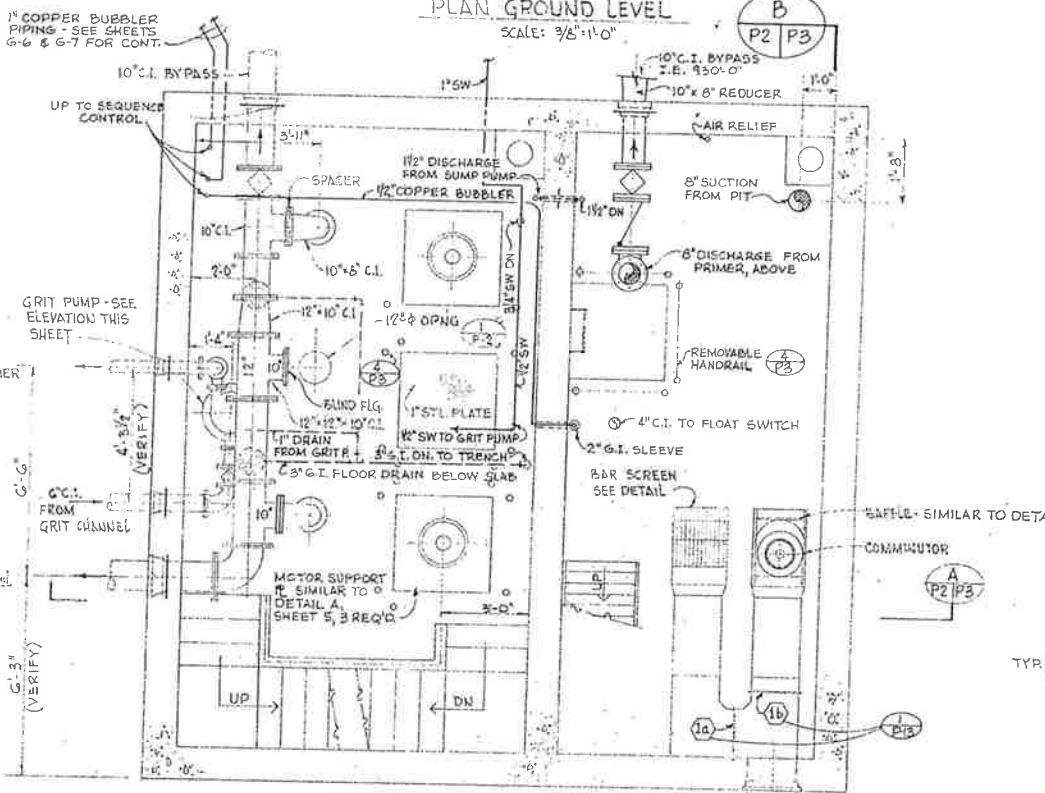
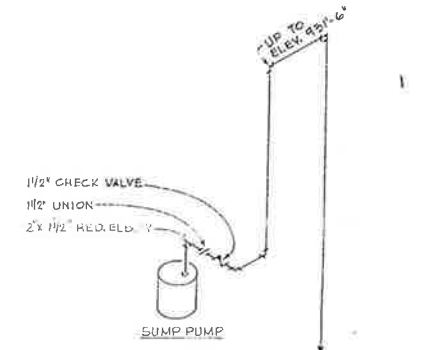
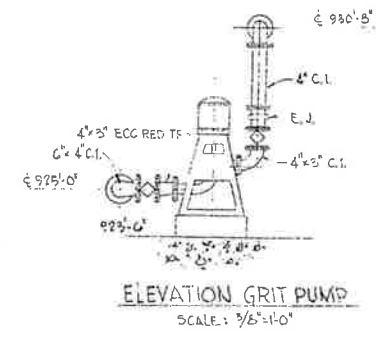
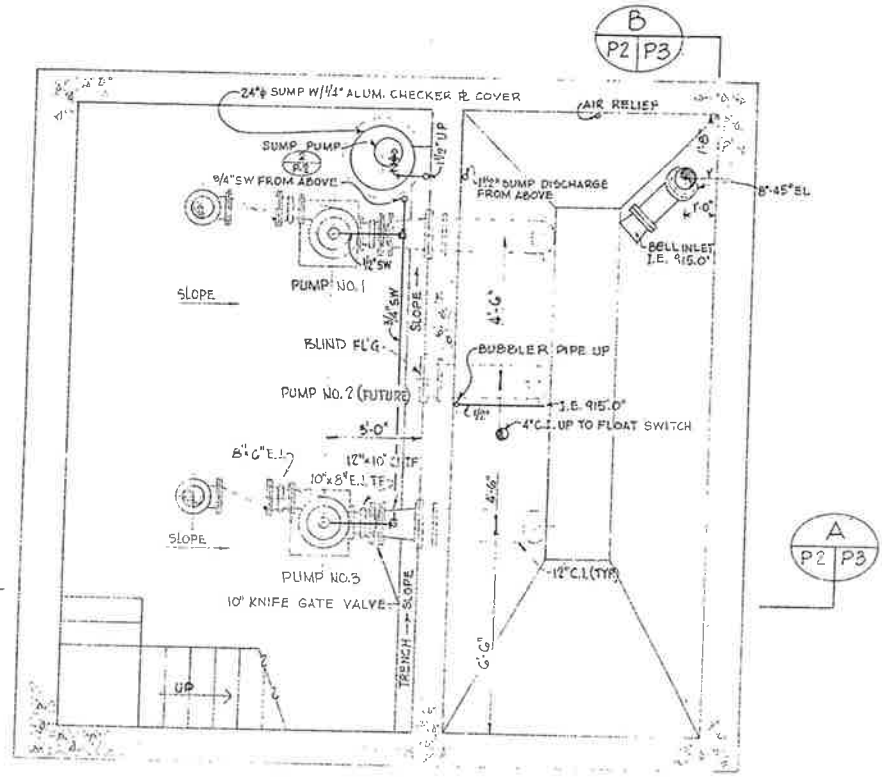
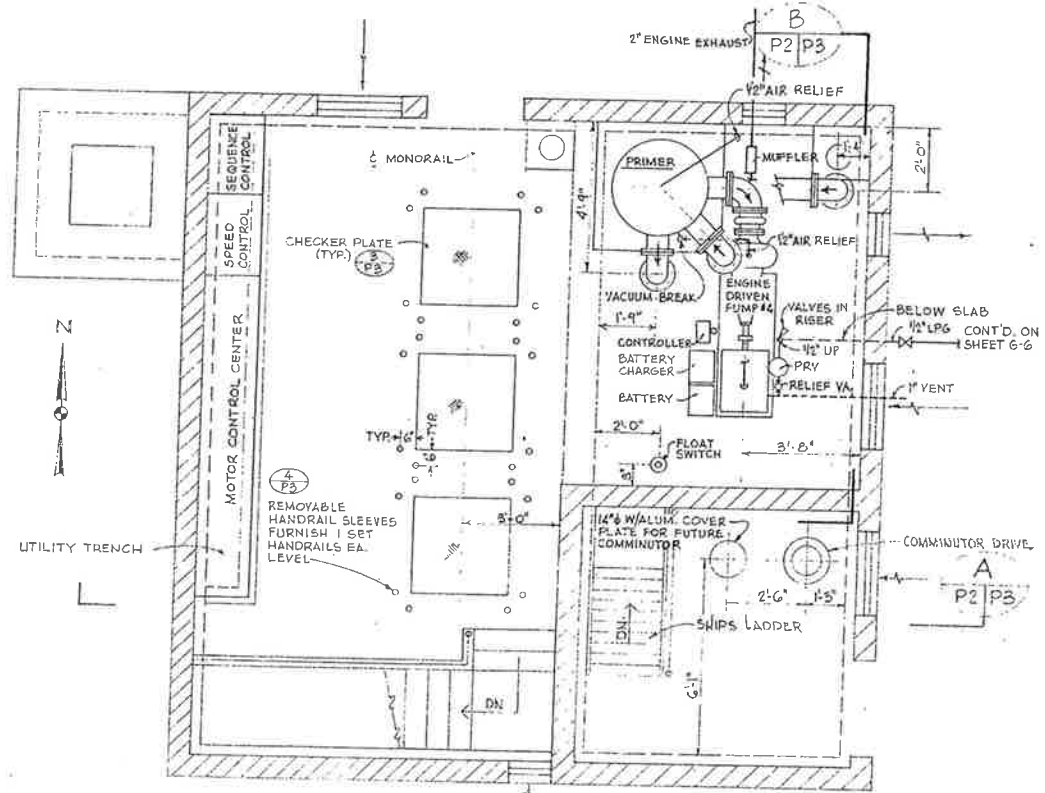
BY	DATE	REVISIONS

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

BY	DATE
Design	JLB 3/76
Drawn	FT 3/76
Chd.	JLB 3/76
Chk./Cons.	
Proj. Eng.	JLB 3/76
Dir. Eng.	
FILE NO.	

WILSEY & HAM
DESIGN DATA, PROCESS SCHEMATIC
& HYDRAULIC PROFILE

PI
PI4
DRAWING NO.
1-1892-0902-55
SCALE: NO SCALE
DATE: MAR. 1976



ISOMETRIC OF PIPING TO LPG DRIVEN ENGINE
NOT TO SCALE

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

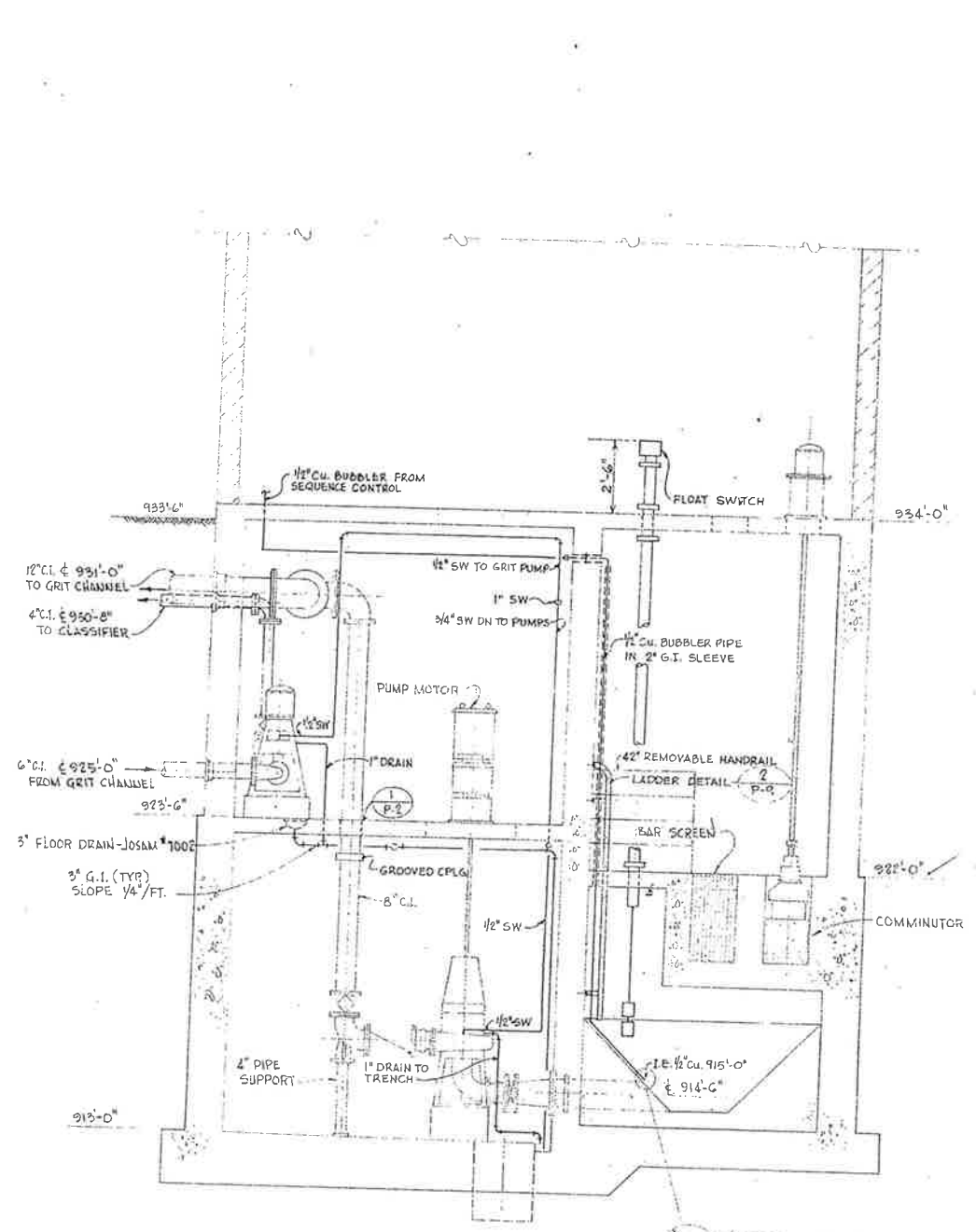
BY	DATE
Design	JLB 3/76
Drawn	WF 3/76
Chk.	JLB 3/76
Col./Cont.	
Prod. Eng.	JLB 3/76
Dist. Eng.	
Rev. No.	

WILSEY & HAM

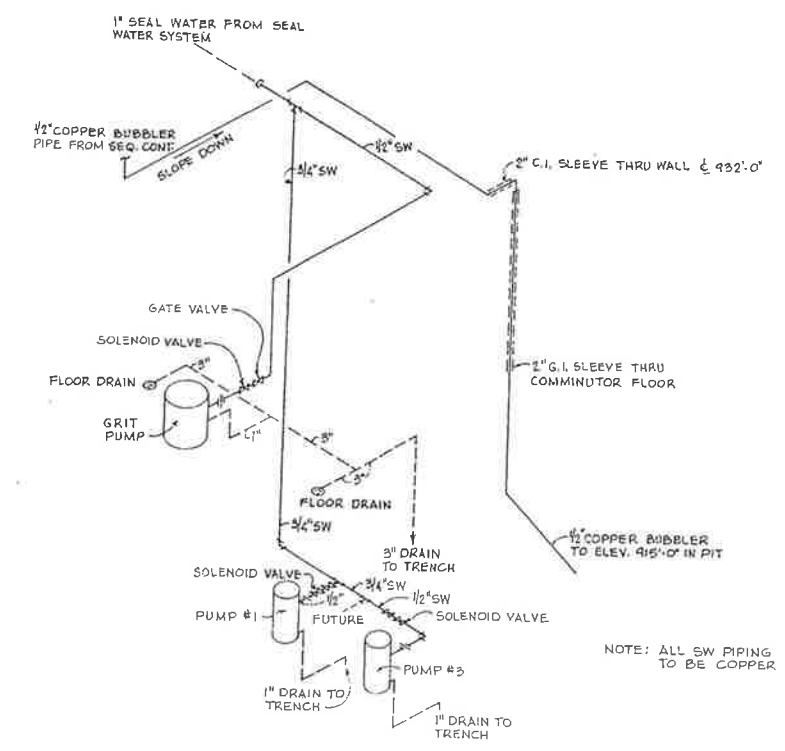
PUMP STATION
PLAN

P2
P14
DEWG. NO.
1-1892-0902-55
SCALE: AS NOTED
DATE: MAR, 1976

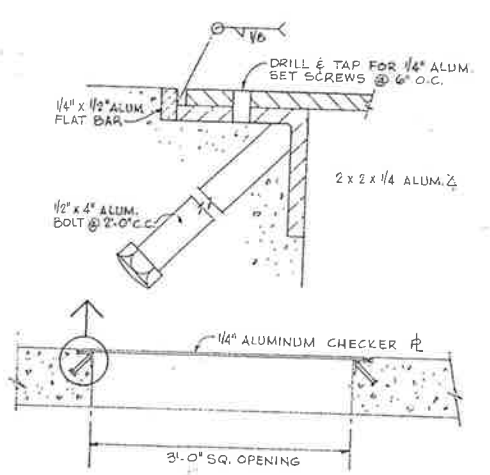
NO.	DATE	REVISIONS



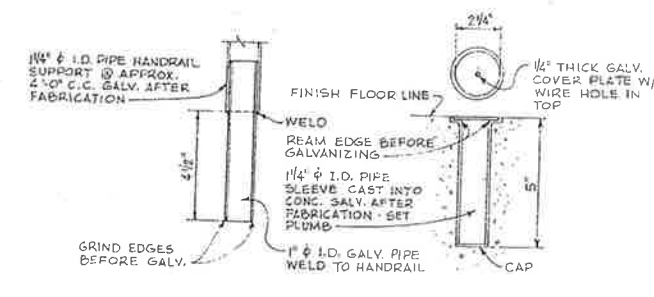
SECTION A
SCALE 3/8" = 1'-0"
P2 | P3



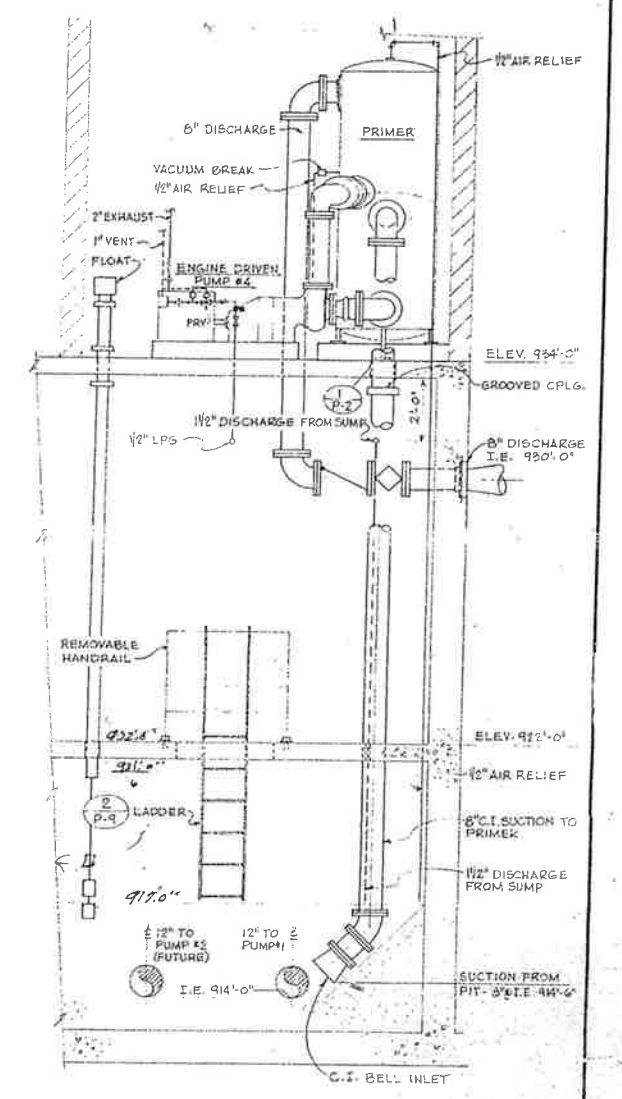
SMALL PIPING ISOMETRIC
NO SCALE



DETAIL 3
NO SCALE
P3



REMOVABLE HANDRAIL 4
NO SCALE
P3



SECTION B
SCALE 3/8" = 1'-0"
P2 | P3

0.375 = 1'-0"

BY	DATE	REVISIONS

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT



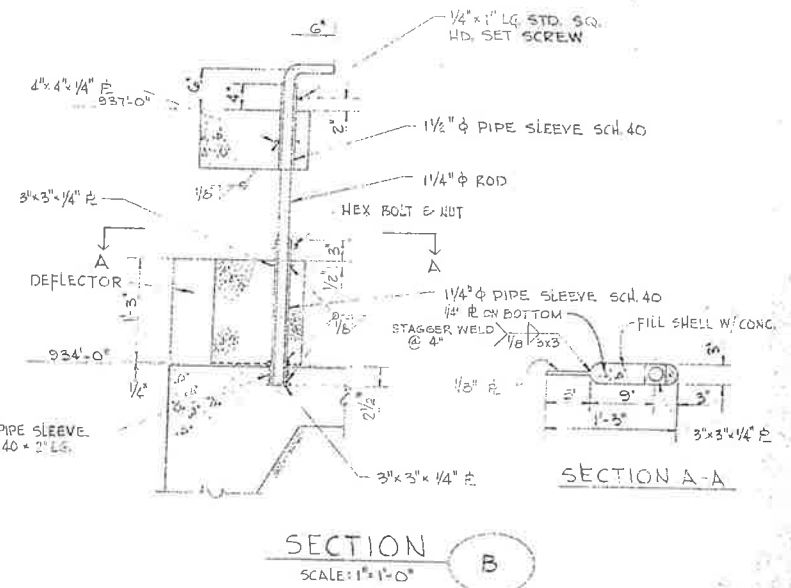
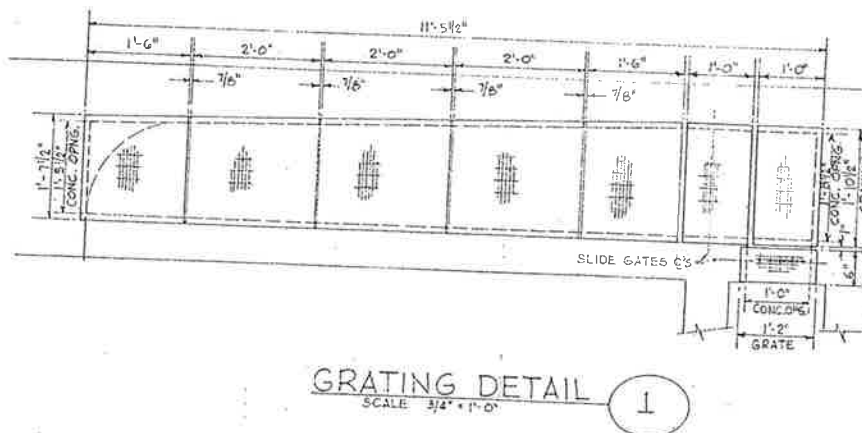
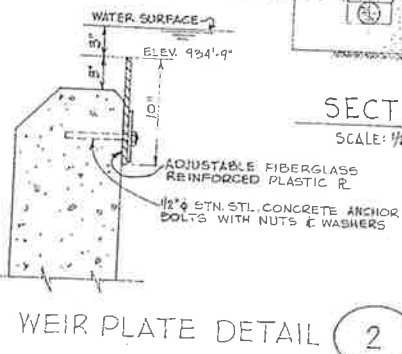
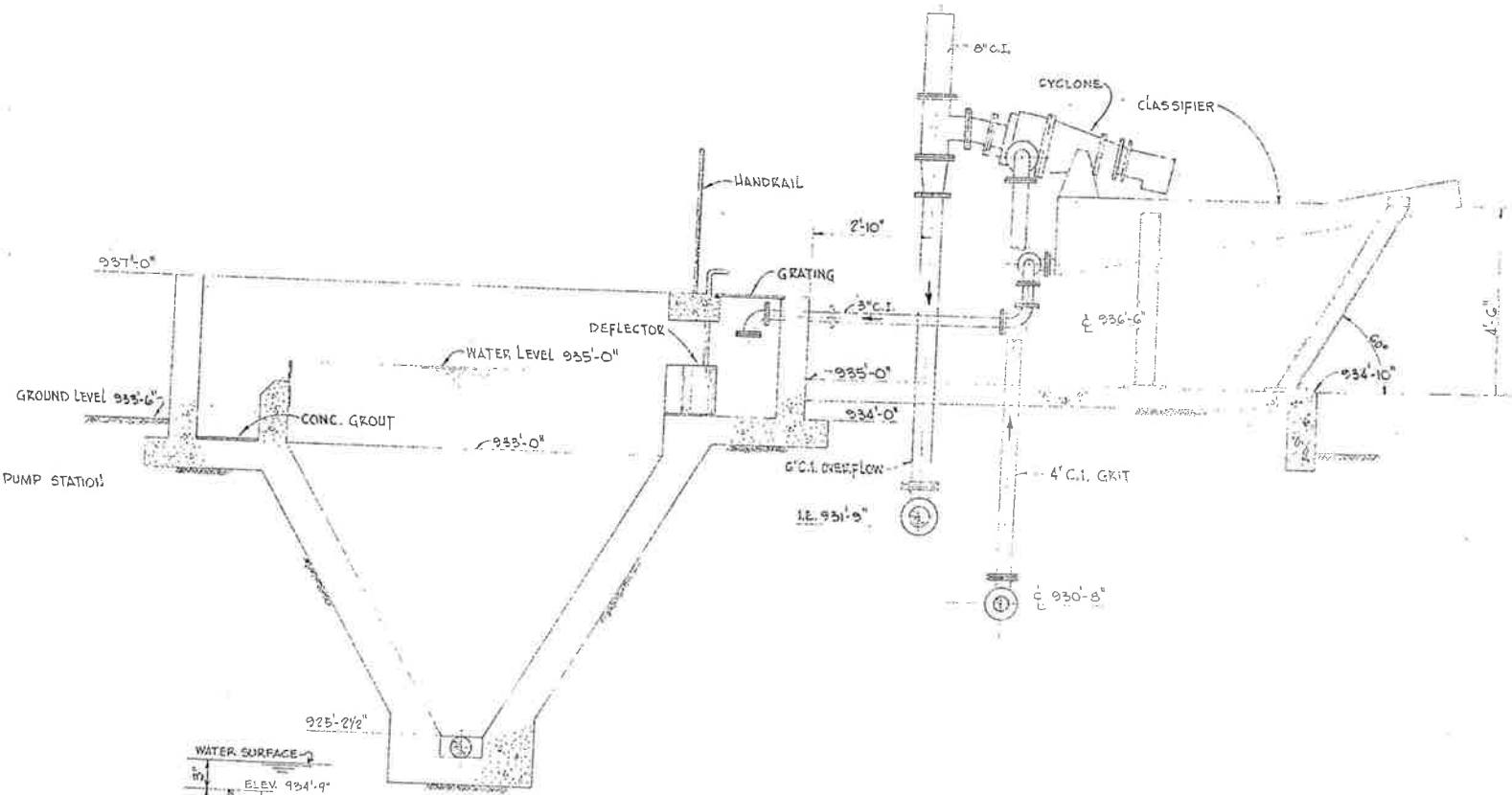
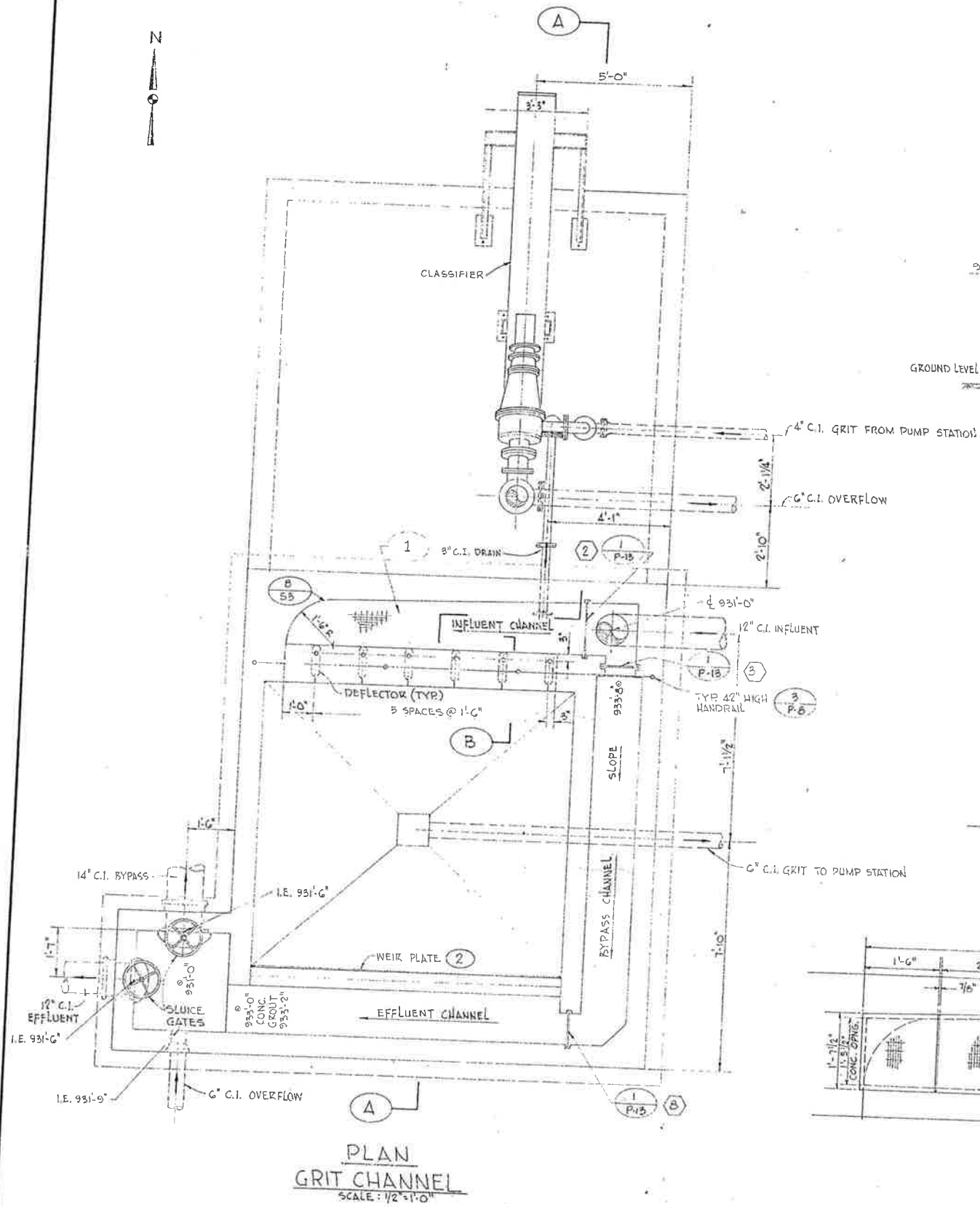
BY	DATE
Design	JLB 3/76
Drew	WFFT 3/76
Chk	JLB 3/76
Proj. Exp.	JLB 3/76
Dir. Eng.	
File No.	

WILSEY & HAM

PUMP STATION
SECTIONS & DETAILS

P3
P14

DRWG NO.
1-1892-0902-55
SCALE AS NOTED
DATE MAR 1976



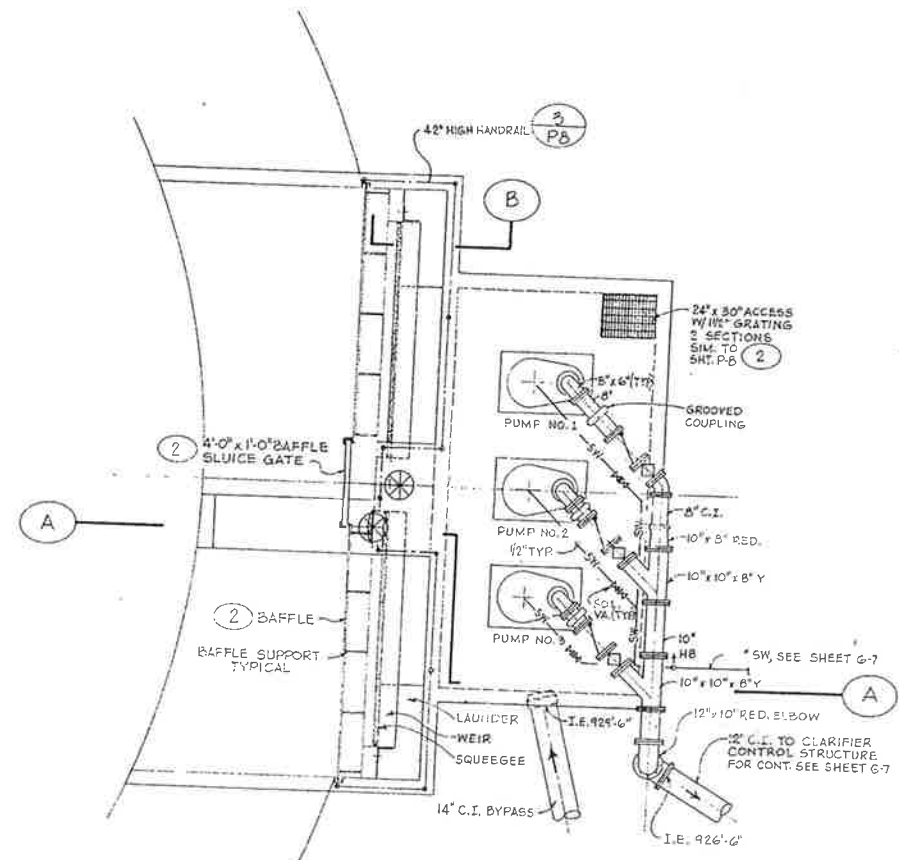
BY	DATE	REVISIONS

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

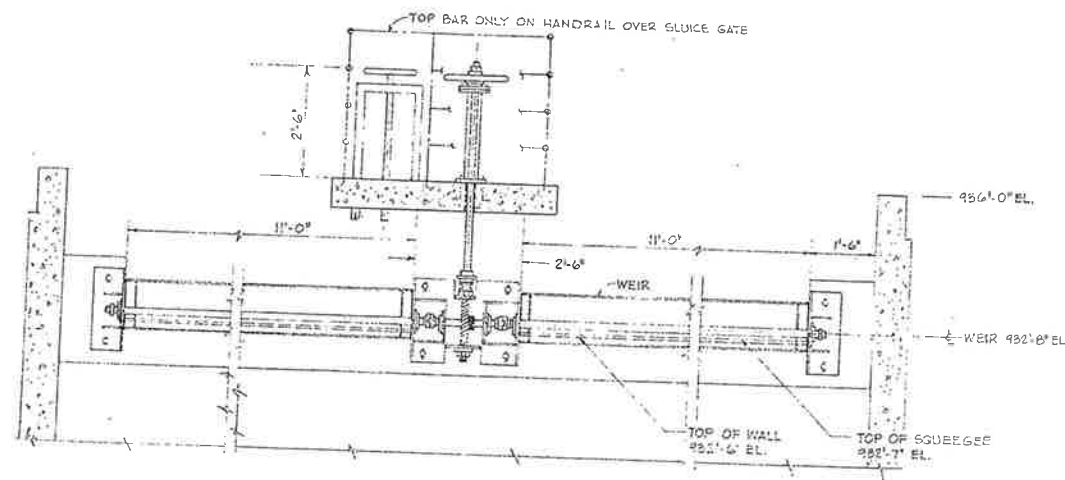
BY	DATE
Design	JLB 3/76
Drawn	WF 3/76
Chk.	JLB 3/76
Est. Eng.	JLB 3/76
Dir. Eng.	
PH. No.	

WILSEY & HAM
GRIT CHANNEL

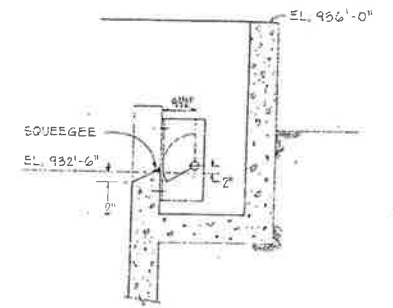
P4
P14
DRAWING NO.
1-1892-0902-55
SCALE: AS NOTED
DATE: MAR 1976



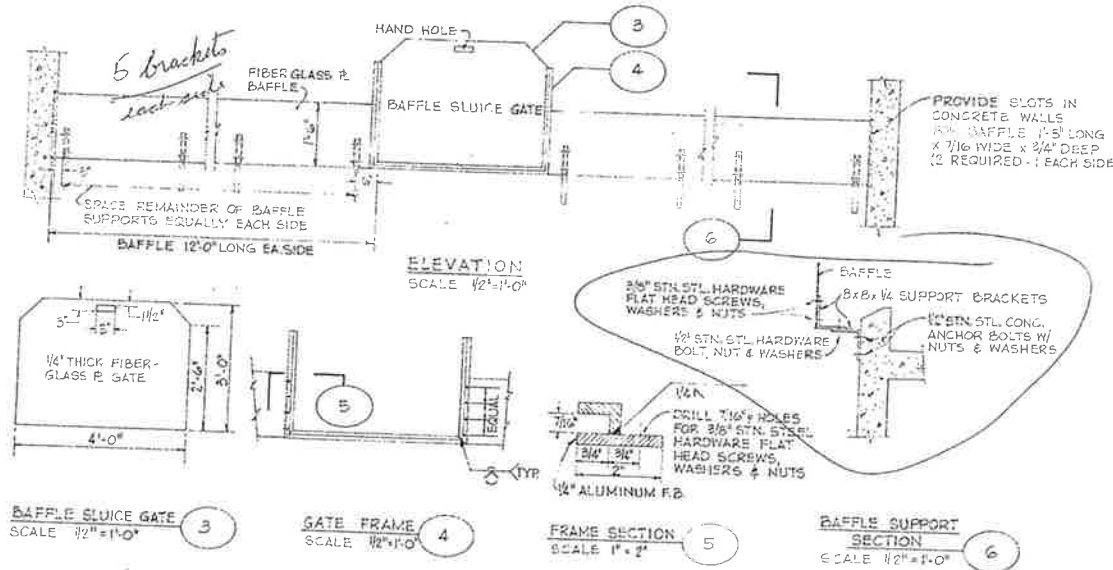
PLAN
EFFLUENT WEIR & INTERMEDIATE PUMP STATION
SCALE 1/2" = 1'-0"



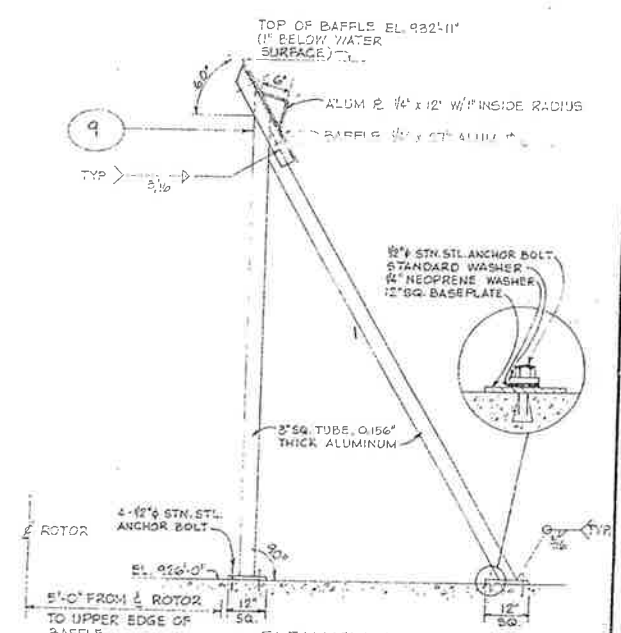
ELEVATION OF WEIR ASSEMBLY
SCALE 1/2" = 1'-0"



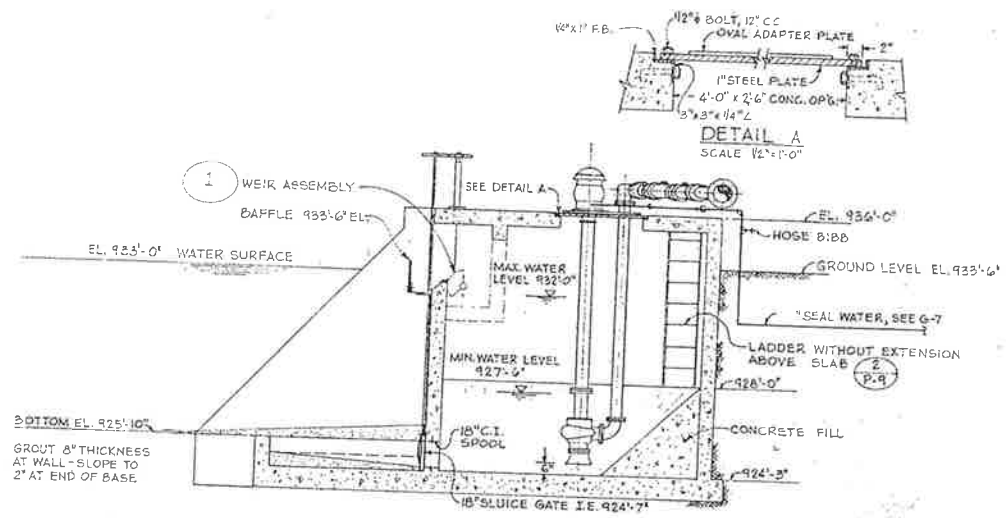
WEIR SECTION
SCALE 1/2" = 1'-0"



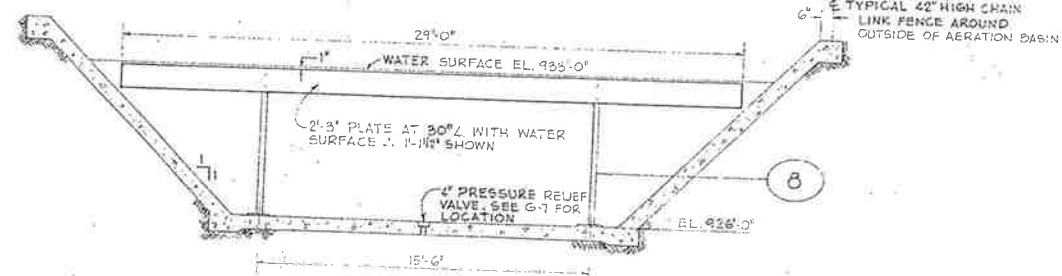
BAFFLE & BAFFLE SLUICE GATE DETAILS
SCALE 1/4" = 1'-0"



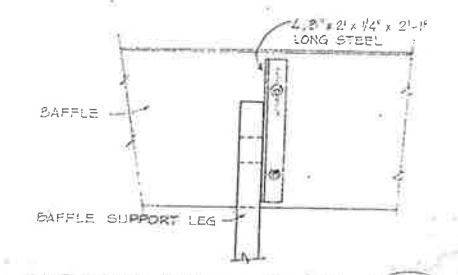
ELEVATION AERATION BASIN BAFFLE SUPPORT
NOT TO SCALE



SECTION
EFFLUENT WEIR & INT. PUMP STATION
SCALE 1/4" = 1'-0"



AERATION BASIN BAFFLE
SCALE 1/4" = 1'-0"



SUPPORT ANGLE DETAIL
NOT TO SCALE

BY	DATE	REVISIONS

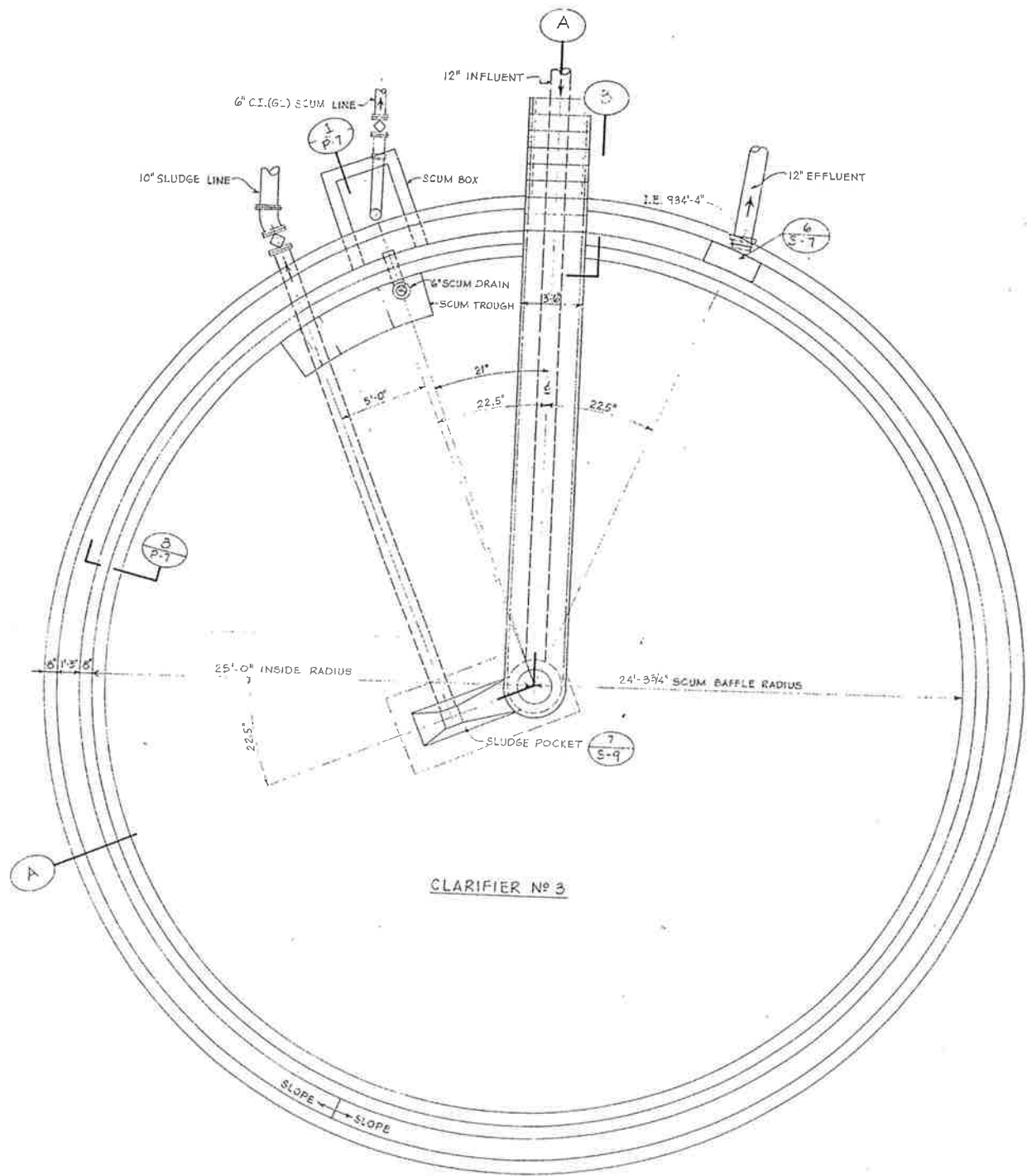
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

APPROVED: [Signature]

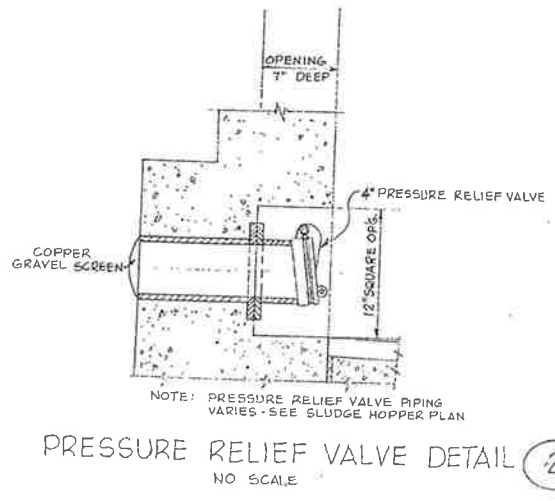
BY	DATE
Design	JLB 3/76
Drawn	FT 3/76
Chk.	JLB 3/76
CLC/Comm.	
Proj. Eng.	JLB 3/76
Dist. Eng.	
PM/EL No.	

WILSEY & HAM
AERATION BASIN DETAILS & INTERMEDIATE PUMP STATION

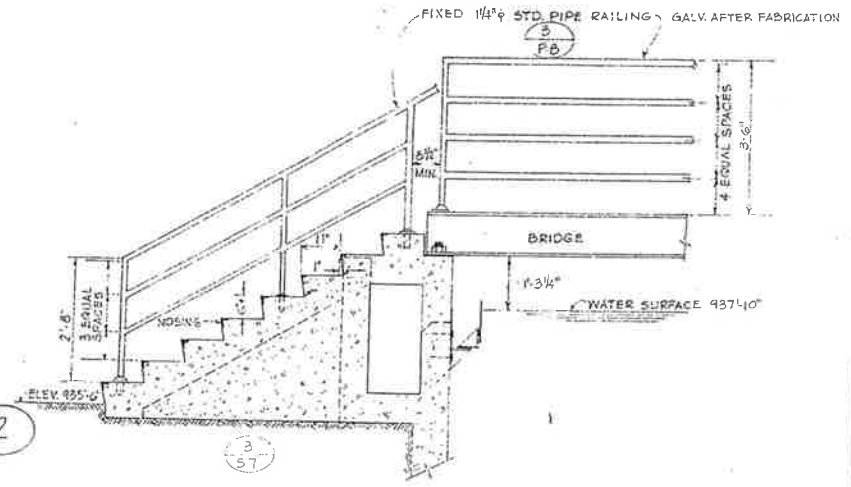
P5
PI4
DWS. NO.
1-1892-0902-55
SCALE AS NOTED
DATE MAR. 1976



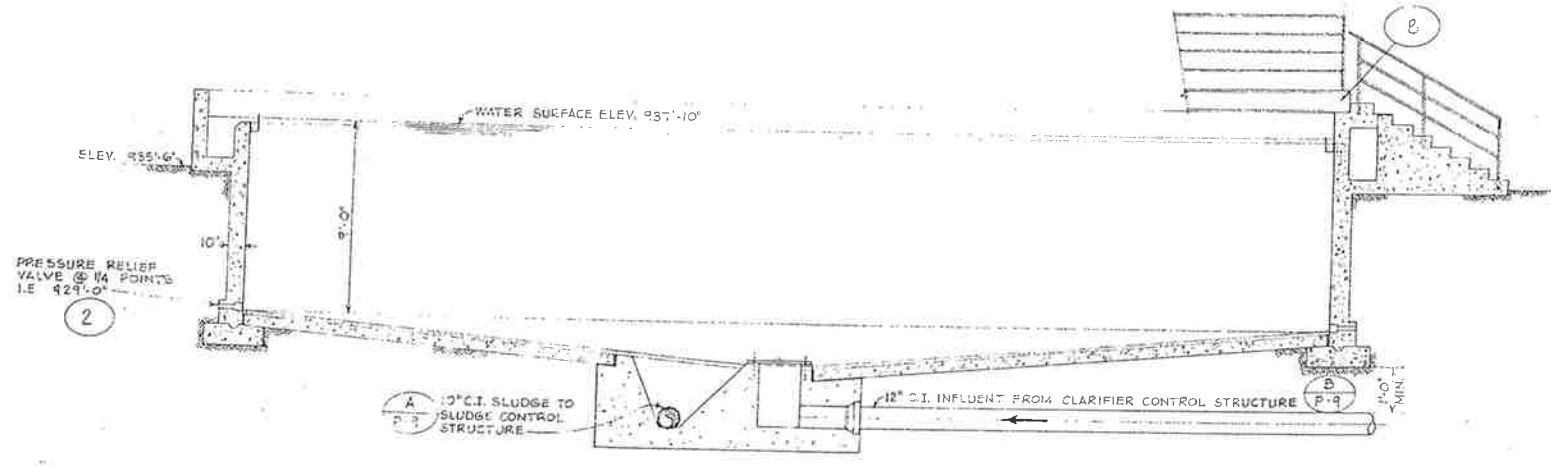
CLARIFIER PLAN NO. 3
SCALE 1/4" = 1'-0"



PRESSURE RELIEF VALVE DETAIL 2
NO SCALE



SECTION AT BRIDGE 6
SCALE 1/2" = 1'-0"



CLARIFIER SECTION A
SCALE 1/4" = 1'-0"

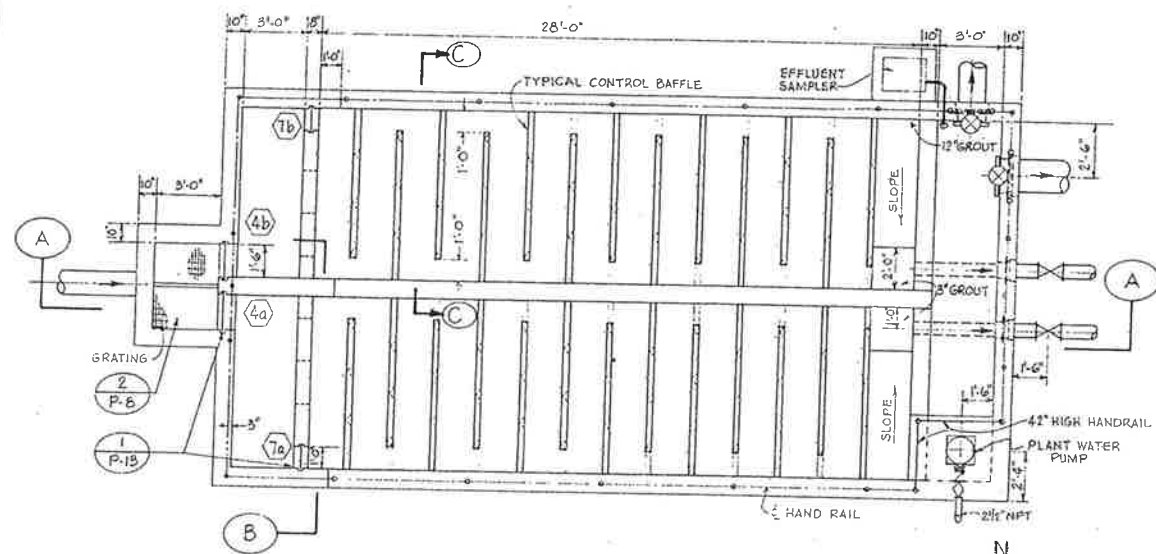
BY	DATE	REVISIONS

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

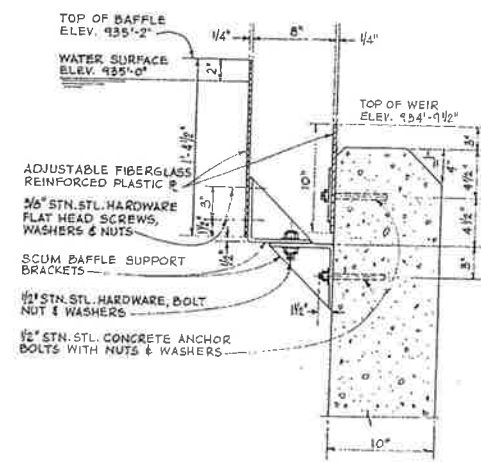
BY	DATE
Design	JLB 3/76
Drewn	FT 3/76
Chk./Comm.	JLB 3/76
Proj. Eng.	JLB 3/76
Dist. Eng.	
Inv. No.	

WILSEY & HAM
CLARIFIER
PLAN & SECTIONS

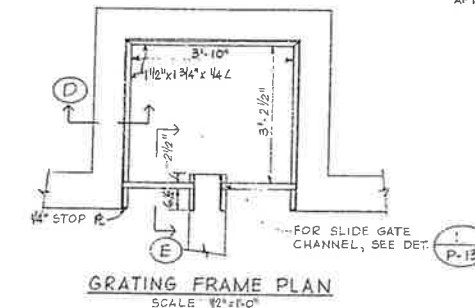
P6
P14
DEWG. NO.
1-1892-0902-55
SCALE AS NOTED
DATE MAR 1976



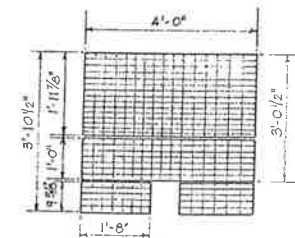
PLAN
CHLORINE CONTACT BASIN
SCALE 1/4" = 1'-0"



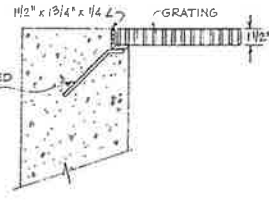
SCUM BAFFLE AND
WEIR PLATE DETAIL
SCALE 1/2" = 1'-0"



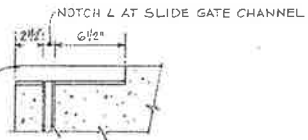
GRATING FRAME PLAN
SCALE 1/2" = 1'-0"



GRATING PLAN
NO SCALE

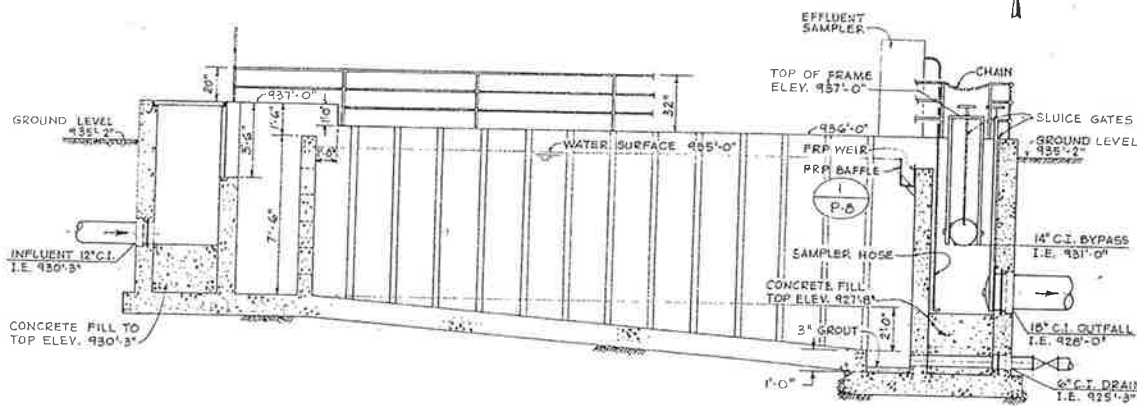


SECTION D
NO SCALE

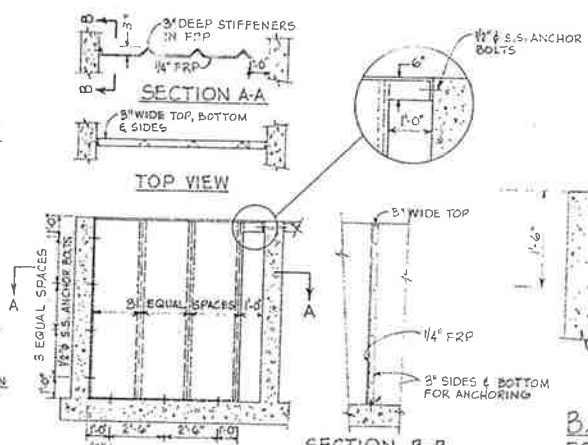


SECTION E
SCALE 1/2" = 1'-0"

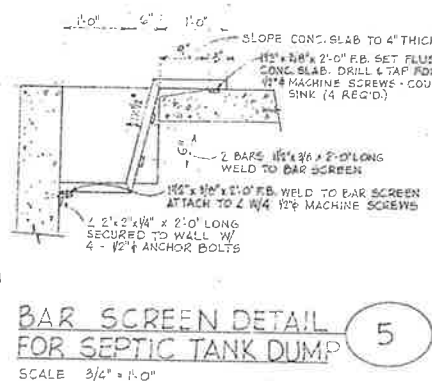
NOTE: GALVANIZE FRAME AFTER FABRICATION



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

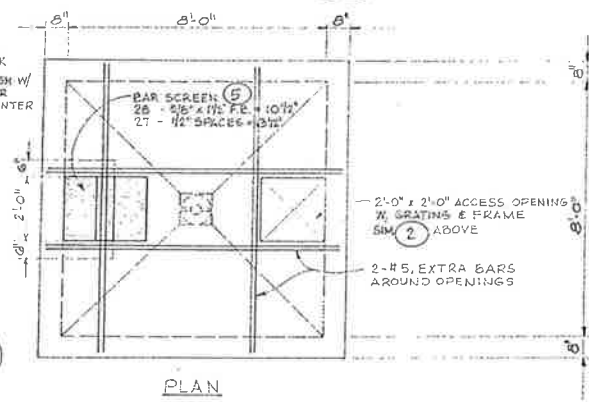


CONTROL BAFFLE
SCALE 1/4" = 1'-0"

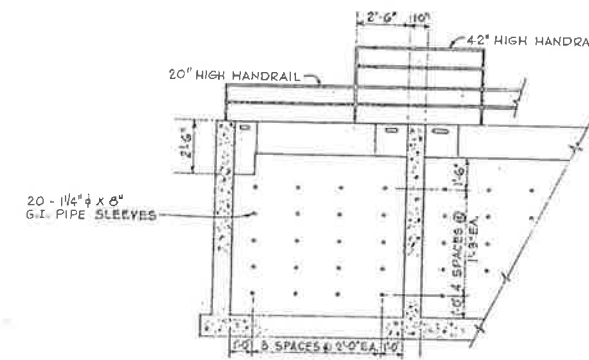


BAR SCREEN DETAIL
FOR SEPTIC TANK DUMP
SCALE 3/4" = 1'-0"

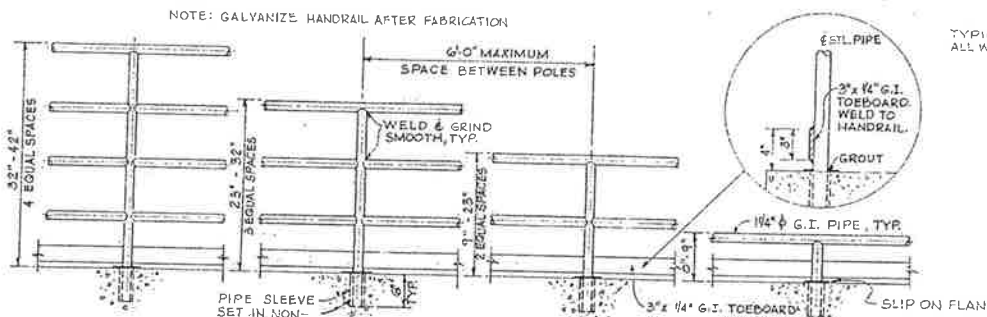
GRATING DETAILS
SCALE: AS NOTED



PLAN

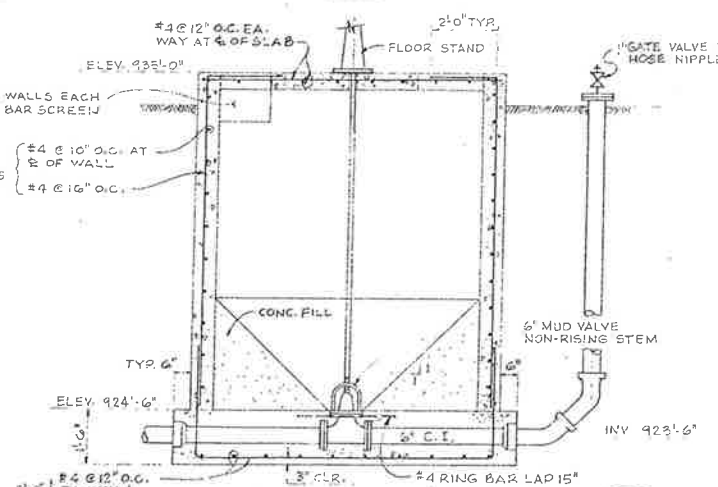


SECTION B
SCALE 1/4" = 1'-0"



STANDARD HANDRAIL DETAIL
SCALE 3/4" = 1'-0"

THIS DRAWING HAS BEEN REDUCED
APPROXIMATELY ONE-HALF SCALE



SEPTIC TANK DUMP
SCALE 3/8" = 1'-0"

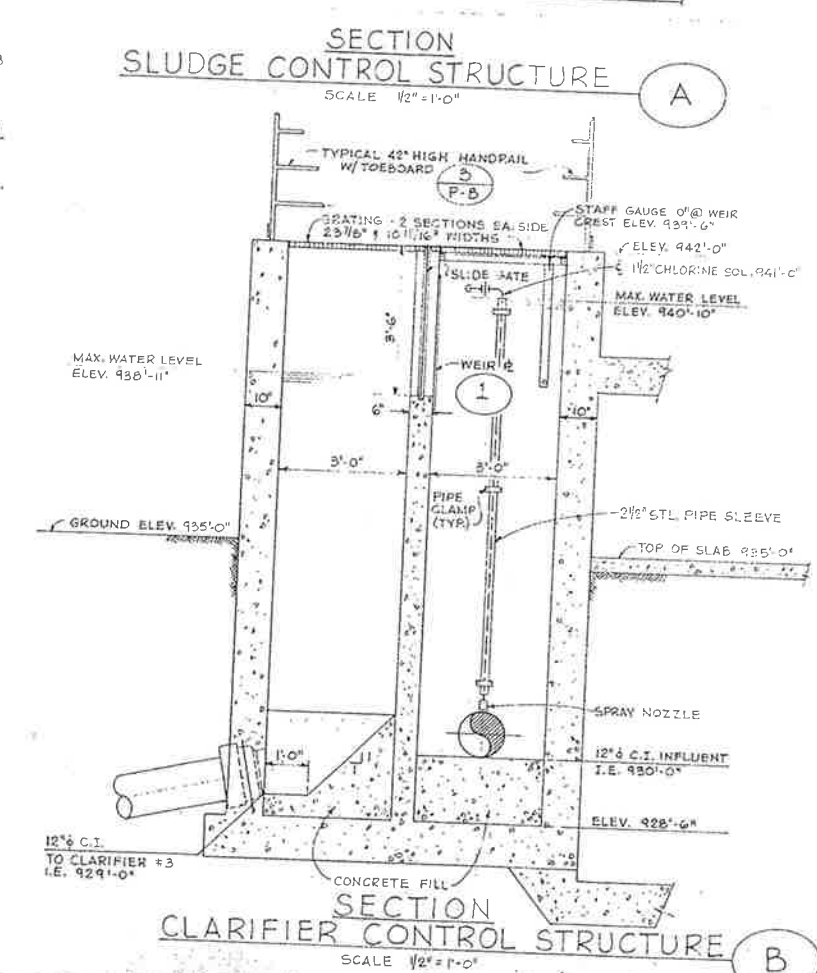
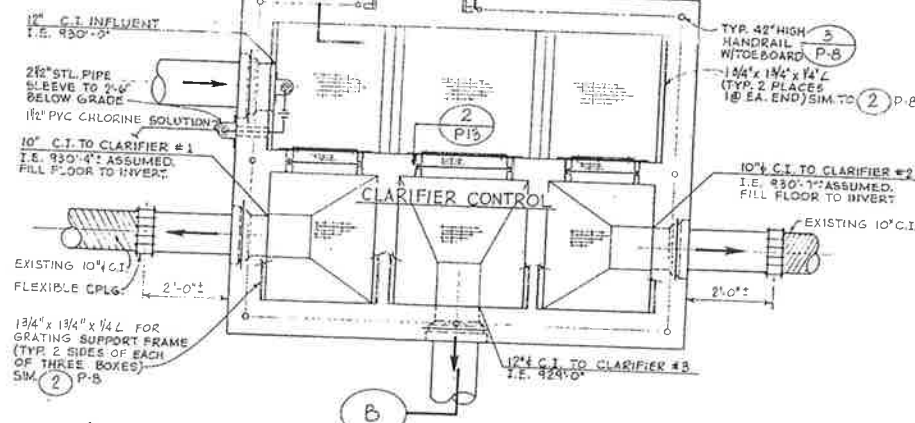
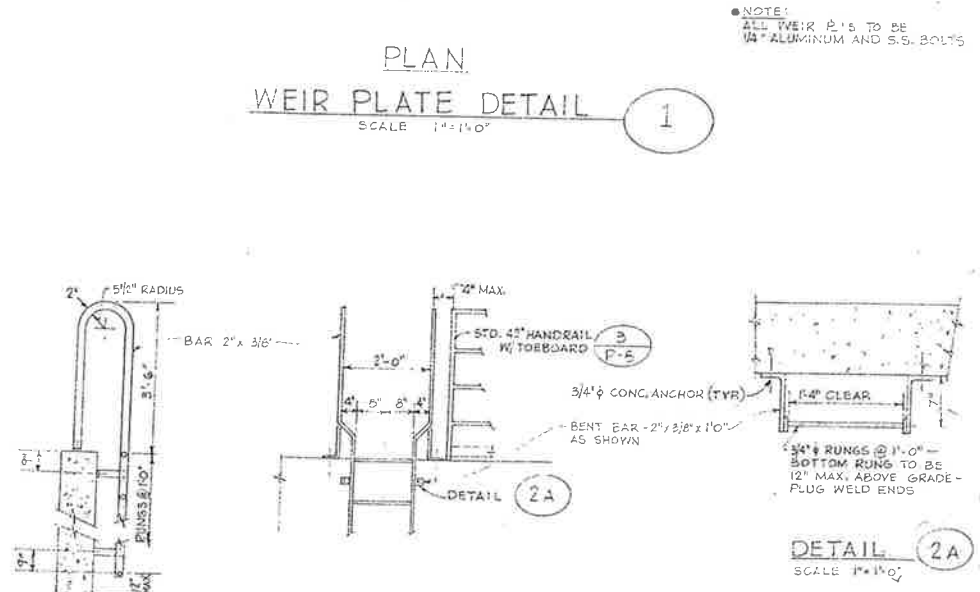
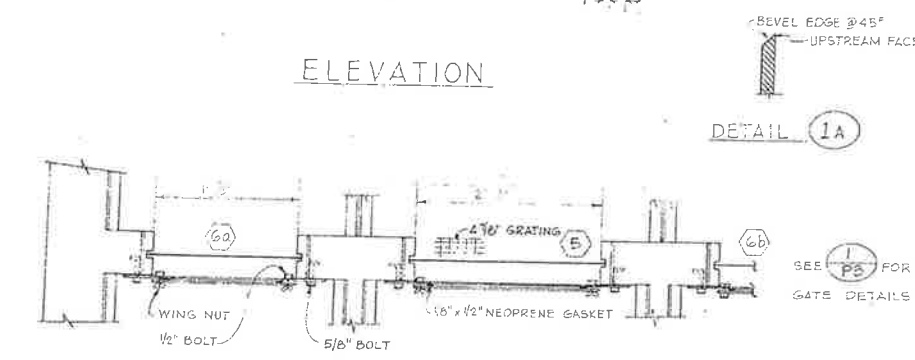
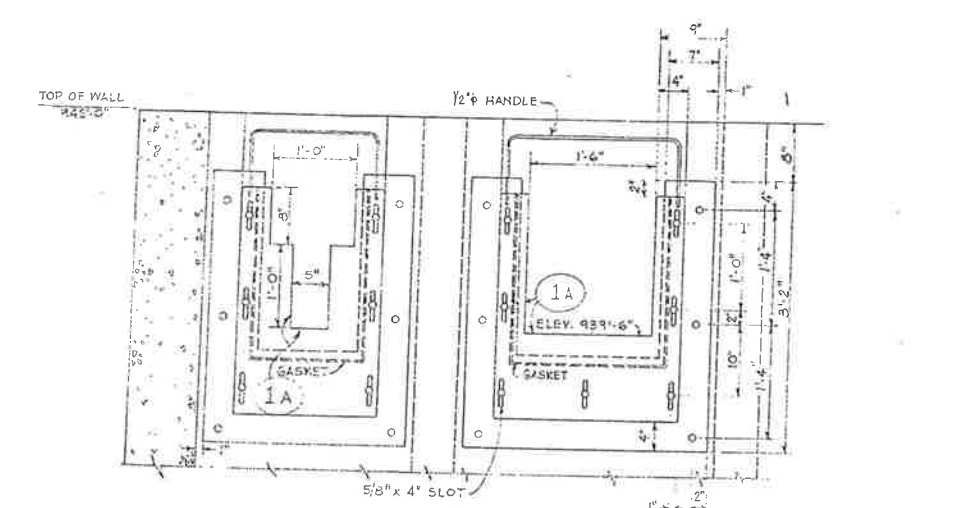
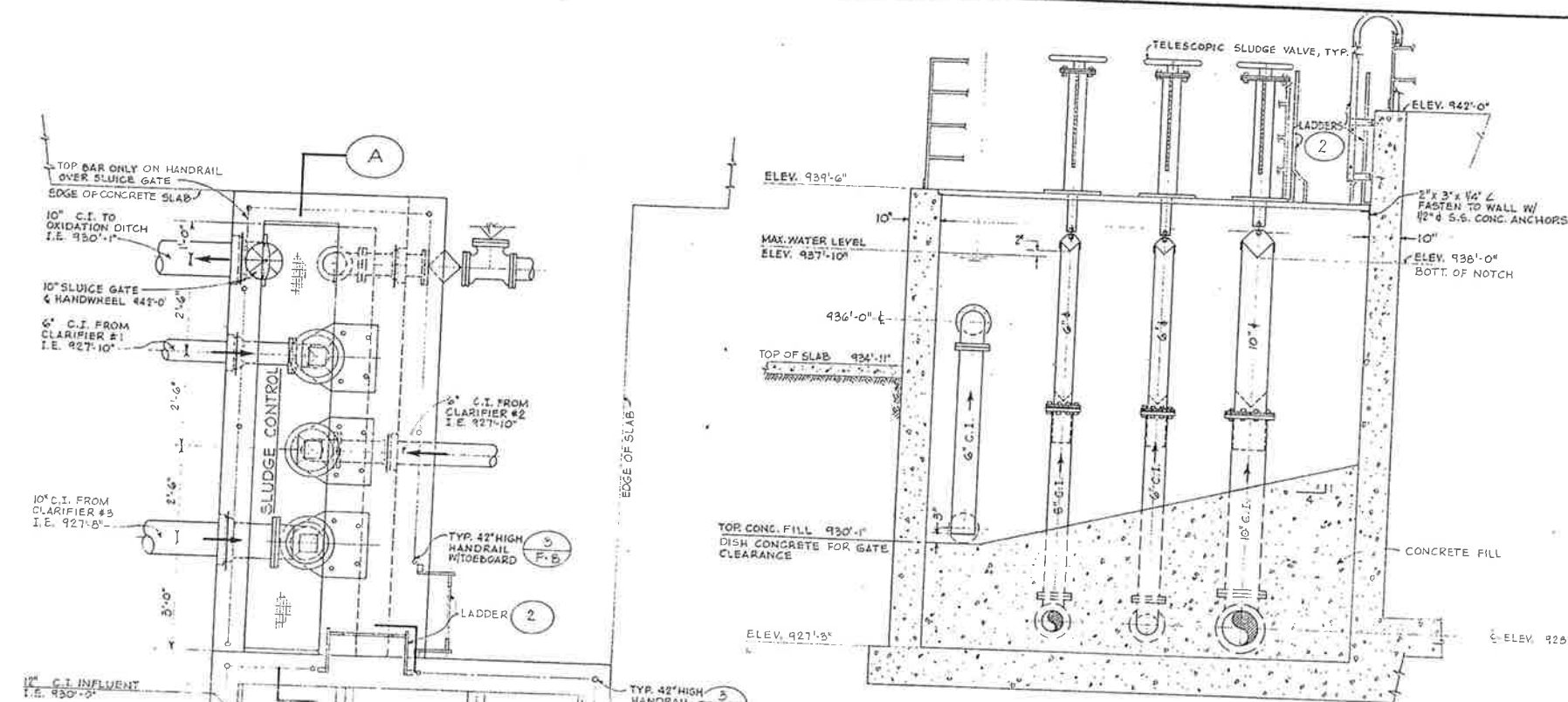
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

BY	DATE
Design	JLB 3/76
Drawn	FT 3/76
Chk.	JLB 3/76
Chk./Const.	
Proj. Eng.	JLB 3/76
Sup. Eng.	
Rev. E.L. No.	

WILSEY & HAM
CHLORINE CONTACT BASIN
SEPTIC TANK DUMP

P8
P14
DRAWING NO.
1892-0902-55
SCALE AS NOTED
DATE MAR 1976

BY	DATE	REVISIONS



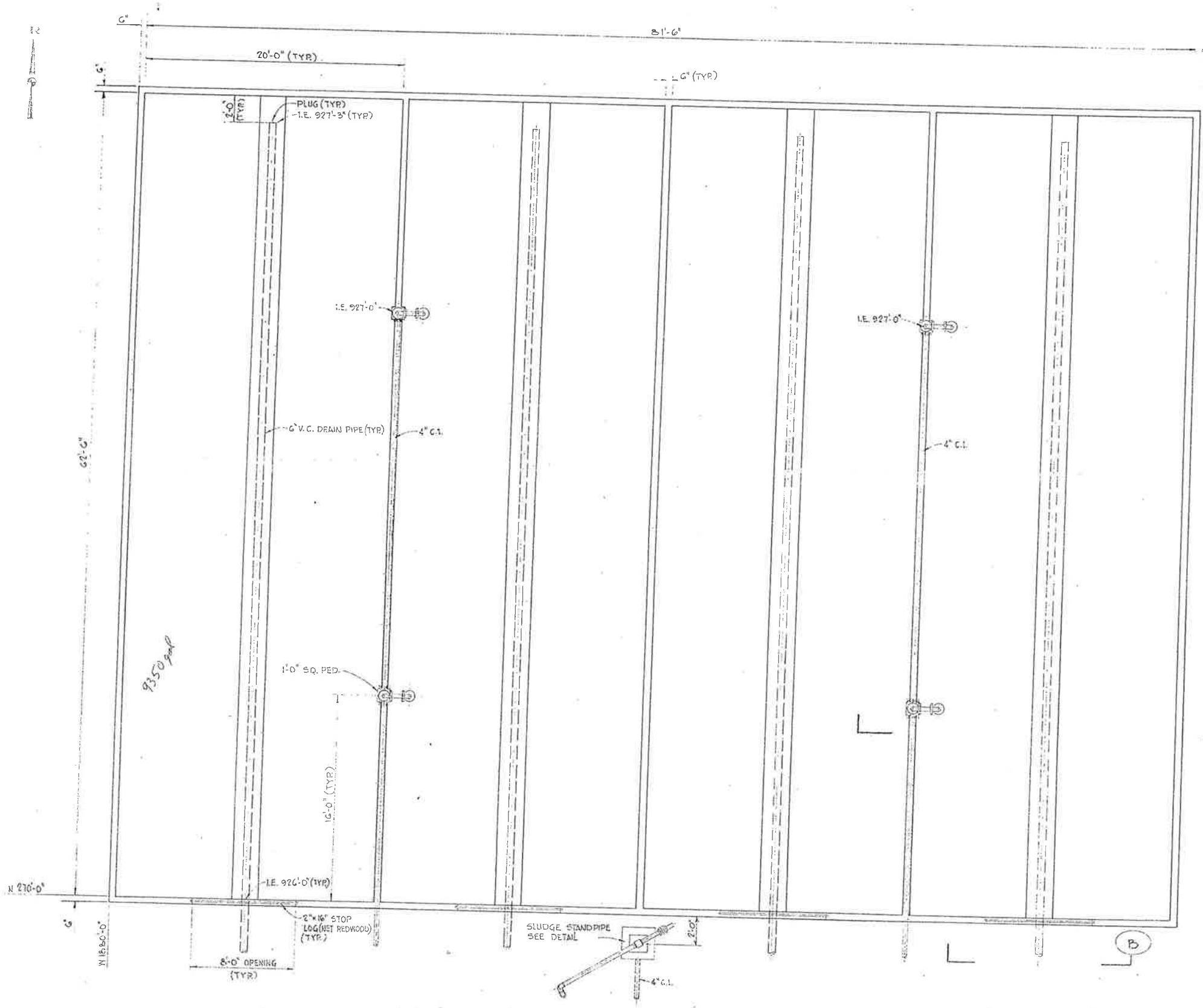
BY	DATE	REVISIONS

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

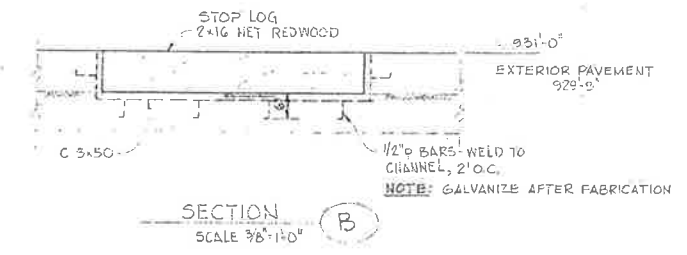
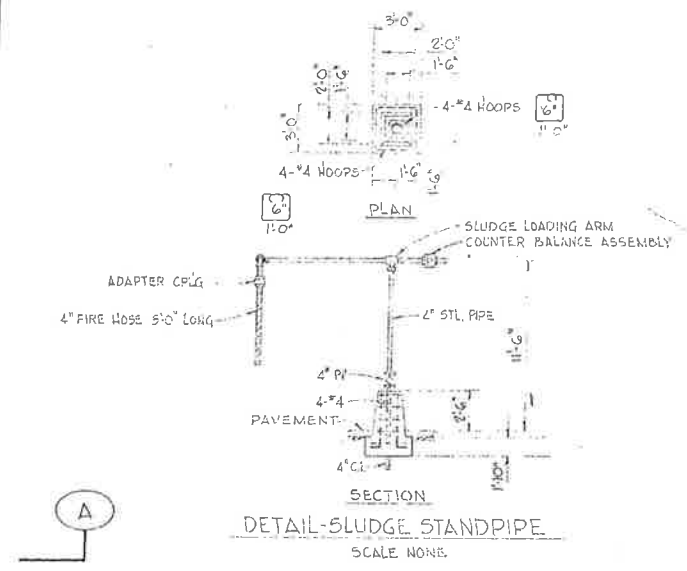
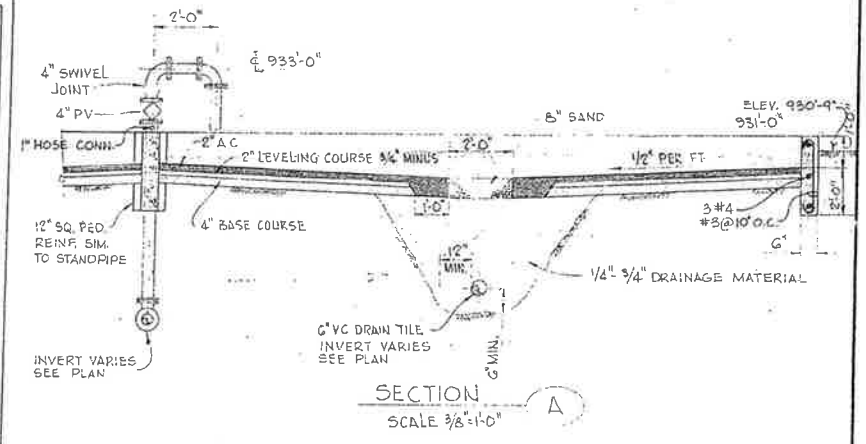
DESIGN	BY	DATE
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Drawn	FT	3/76
Ck'd	JLB	3/76
Proj. Eng.	JLB	3/76
Dist. Eng.		
FILE NO.		

WILSEY & HAM
CONTROL STRUCTURE

P9
P14
DRAWING NO. 1-1892-0902-55
SCALE AS NOTED
DATE MAR 1976



PLAN - SLUDGE DRYING BEDS
 SCALE: 1/4" = 1'-0"



NOTE:
 EXPOSED PIPING TO BE PAINTED CODE A

THIS DRAWING HAS BEEN REDUCED
 APPROXIMATELY ONE-HALF SCALE

BY	DATE	REVISIONS

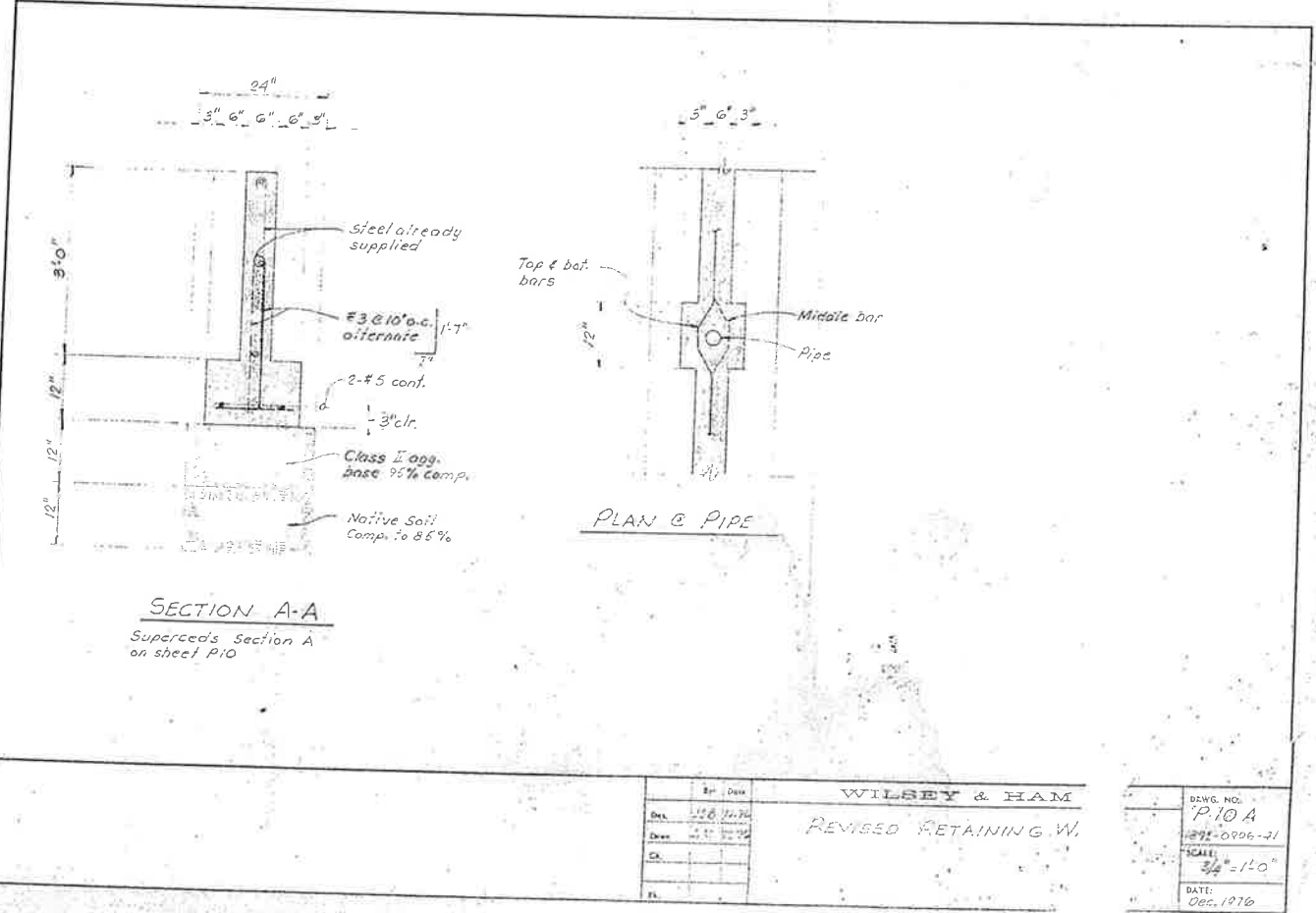
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT



BY	DATE
Design	JLB 3/76
Drawn	WF 3/76
Chk./Coord.	JLB 3/76
Proj. Eng.	JLB 3/76
Dist. Eng.	
Proj. No.	

WILSEY & HAM
 SLUDGE DRYING BEDS

PI0
 PI4
 DEWC NO.
 1-1892-0902-55
 SCALE AS NOTED
 DATE MAR 1976



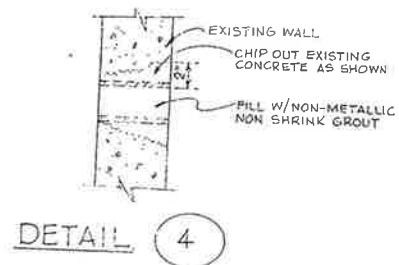
WILSEY & HAM	
Des.	12/10/20
Drawn	12/10/20
Chk.	
Fl.	

REVISD RETAINING W.

DEWG. NO.
 P10 A
 202-0206-21

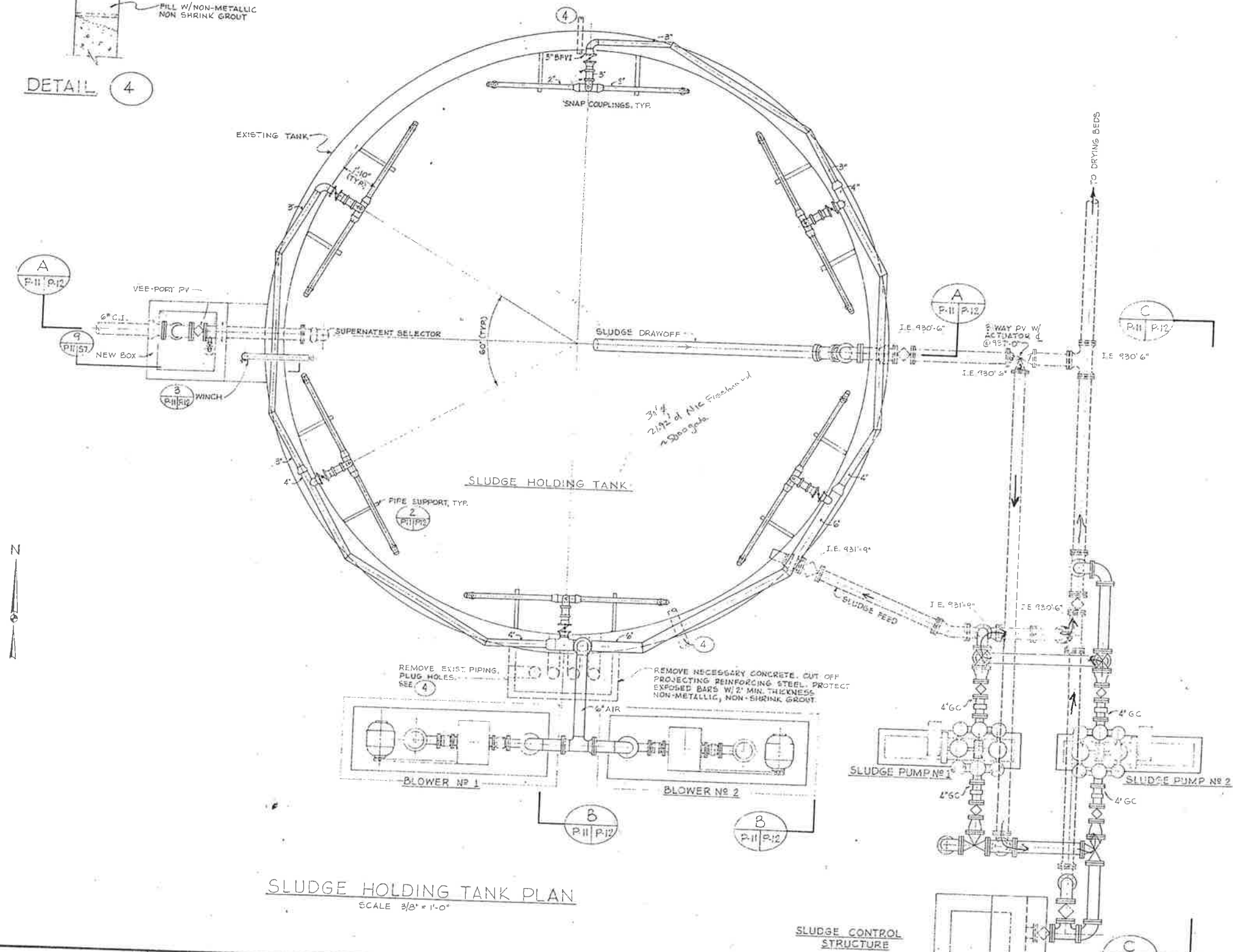
SCALE
 3/4" = 1'-0"

DATE
 Dec. 10/20



SLUDGE HOLDING TANK FINISH SCHEDULE

ITEM	PAINT	REMARKS
Tank interior from top of wall to 2' below min. water surface	Code F	Remove existing paint by sandblast
Exterior walls above grade	Code E	Remove existing paint by sandblast
Submerged and intermittently submerged metal & piping below top of wall	Code C	
Non-submerged metal and air piping around tank	Code B	
All remaining non-submerged metal & piping	Code A	



- NOTES:
- AIR PIPING TO BE STEEL WITH BUTT WELDING FITTINGS, UNLINED
 - ALL OTHER PIPING SHOWN TO BE CAST IRON, GLASS LINED.
 - ALL PIPING 6" UNLESS OTHERWISE SHOWN.
 - ALL PIPING SHOWN IS NEW UNLESS OTHERWISE NOTED
 - REMOVE ALL EXISTING PIPING EXPOSED OR INSIDE TANK (APPROX. 10'). CHIP OUT WALL SPOOLS (S) TO EXPOSE CONCRETE, ROUGHEN SURFACE AND PATCH PER DETAIL 4

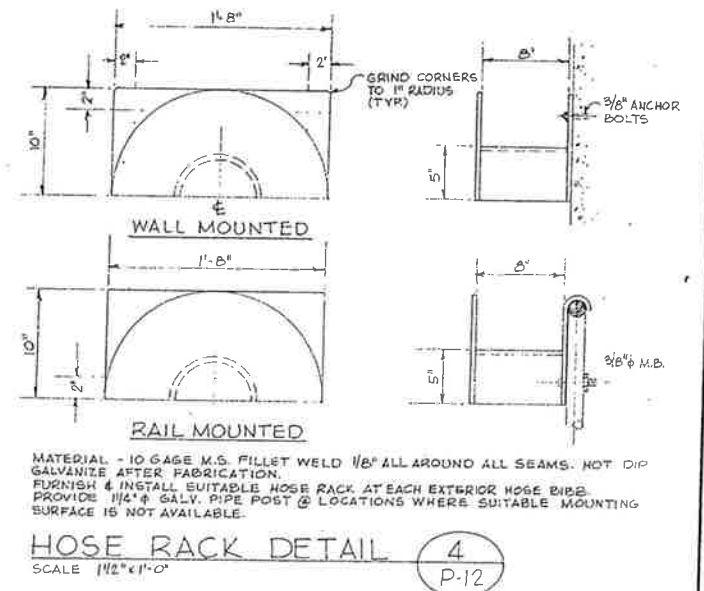
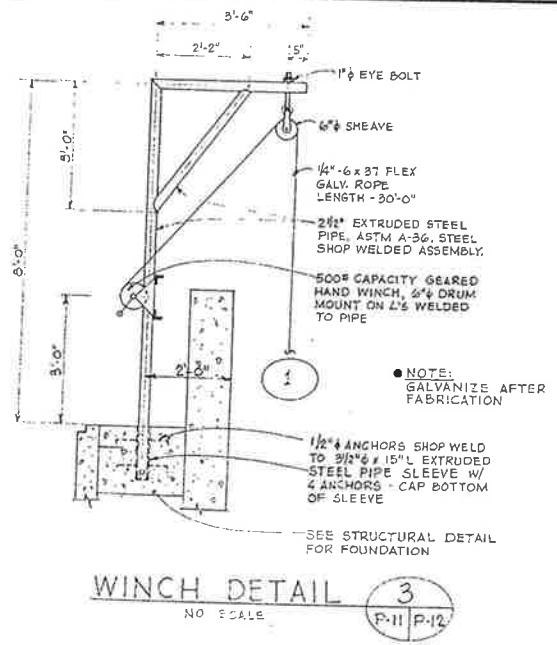
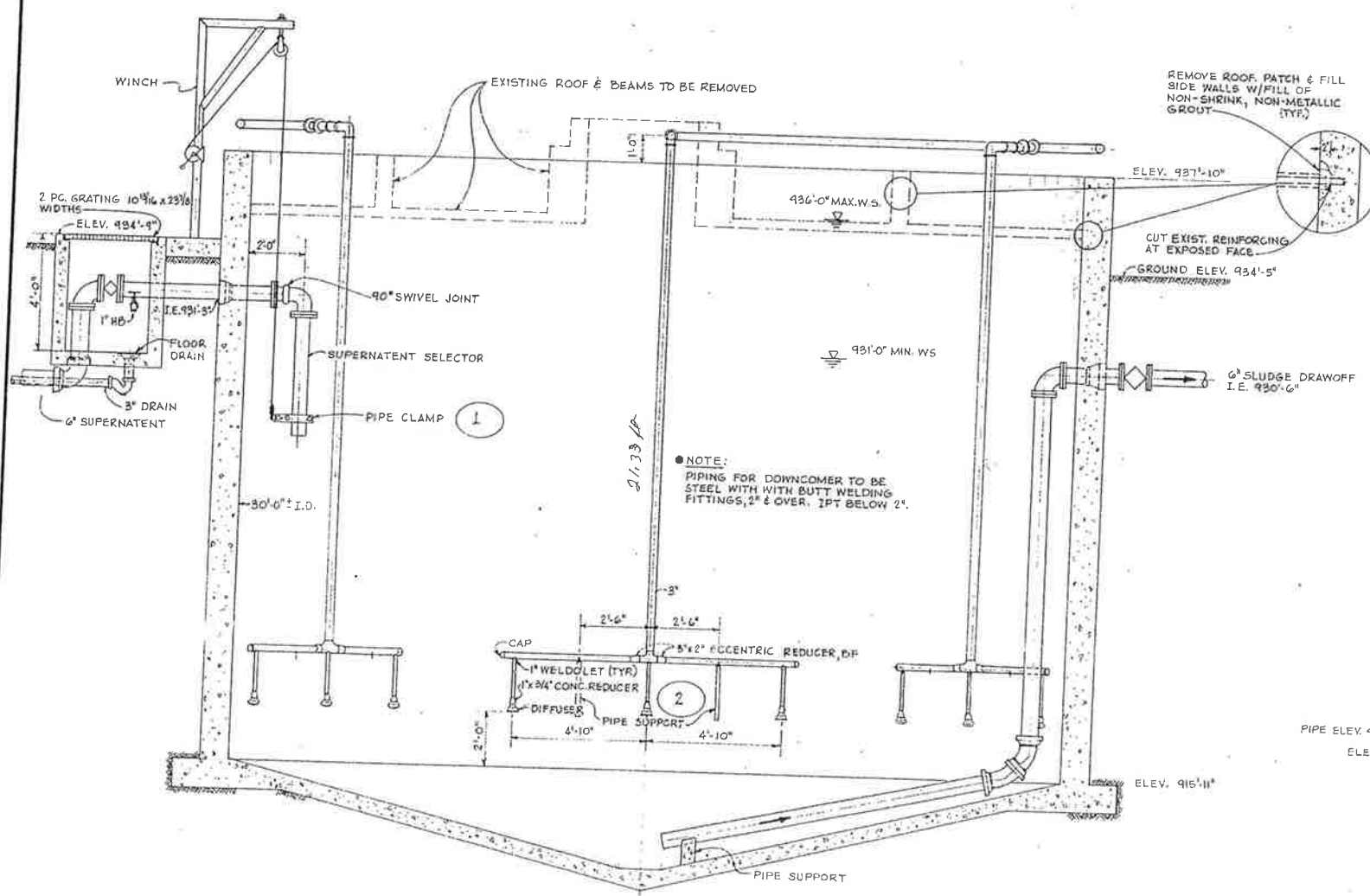
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

WILSEY & HAM
SLUDGE HOLDING TANK PLAN

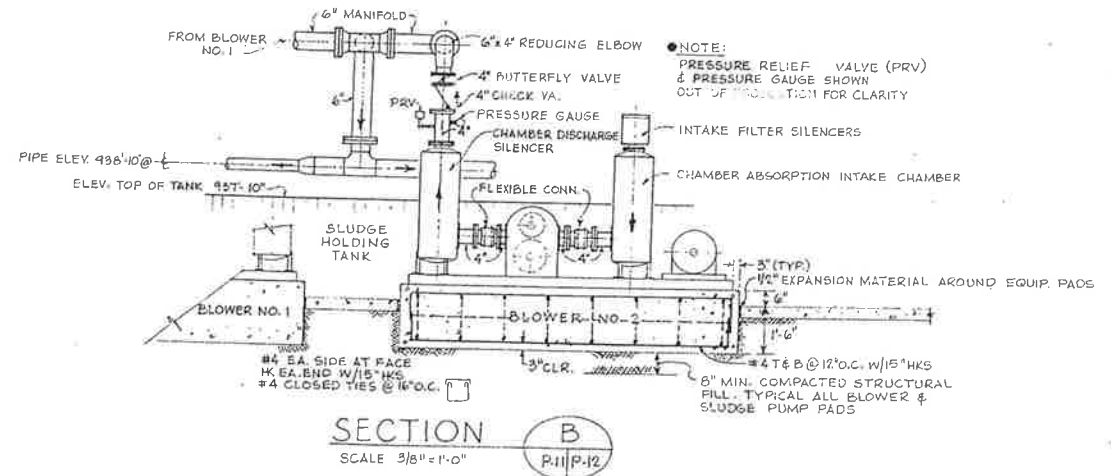
BY	DATE	REVISIONS

BY	DATE
Design	JLB 3/76
Drawn	FT 3/76
Chk.	JLB 3/76
Clk./Const.	
Proj. Eng.	JLB 3/76
Dist. Eng.	
Pl. H. No.	

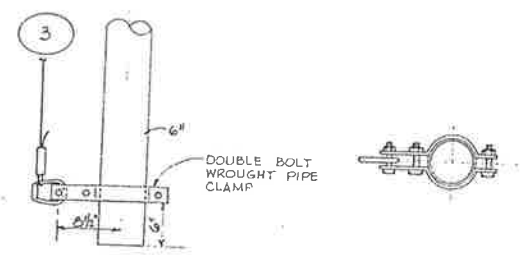
P11
P14
DWG. NO.
1-1892-0902-55
SCALE: 3/8" = 1'-0"
DATE: MAR 1976



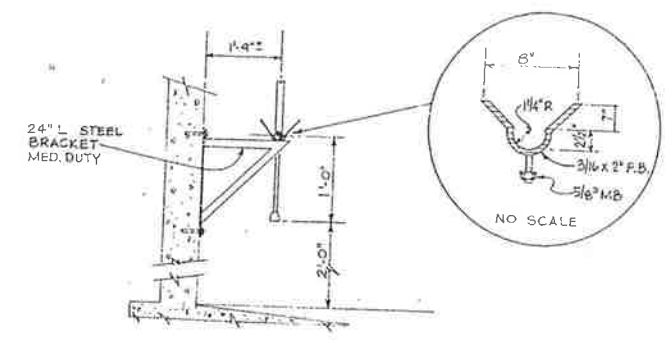
SECTION A
SLUDGE HOLDING TANK
SCALE 3/8" = 1'-0"



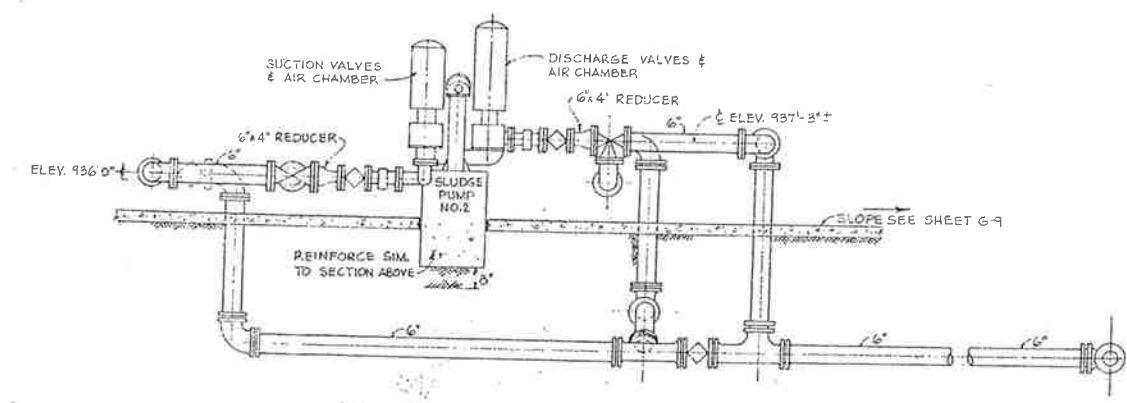
SECTION B
SCALE 3/8" = 1'-0"



PIPE CLAMP DETAIL 1
SCALE 1" = 1'-0"



PIPE SUPPORT DETAIL 2
SCALE 1/2" = 1'-0"



SECTION C
SCALE 3/8" = 1'-0"

NO.	DATE	REVISIONS

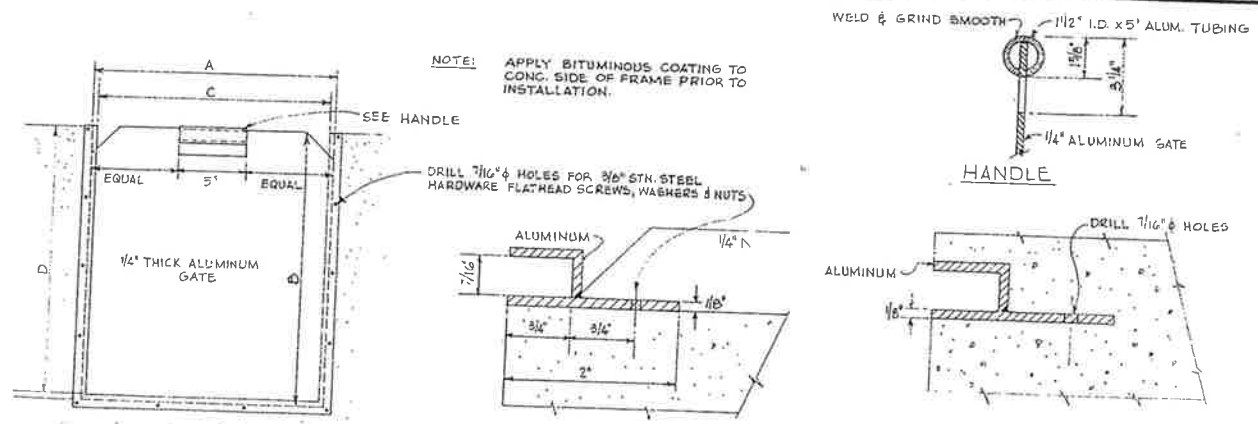
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT



BY	DATE
Design	JLB 3/76
Drawn	FT 3/76
Chk.	JLB 3/76
Chk./Coord.	
Proj. Eng.	JLB 3/76
Dist. Eng.	
PI2 No.	

WILSEY & HAM
SLUDGE HOLDING TANK
SECTIONS & DETAILS

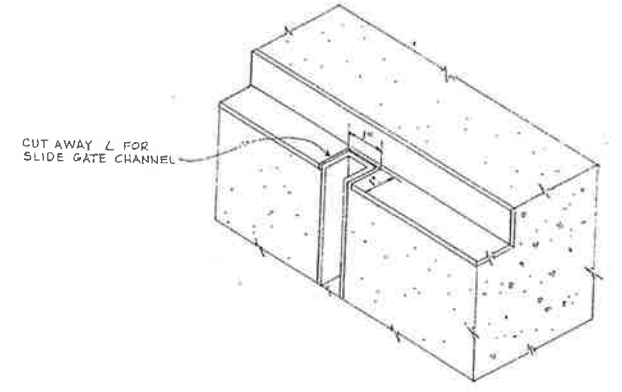
PI2
PI4
DRAWG. NO.
1-1892-0902-55
SCALE: AS NOTED
DATE: MAR 1976



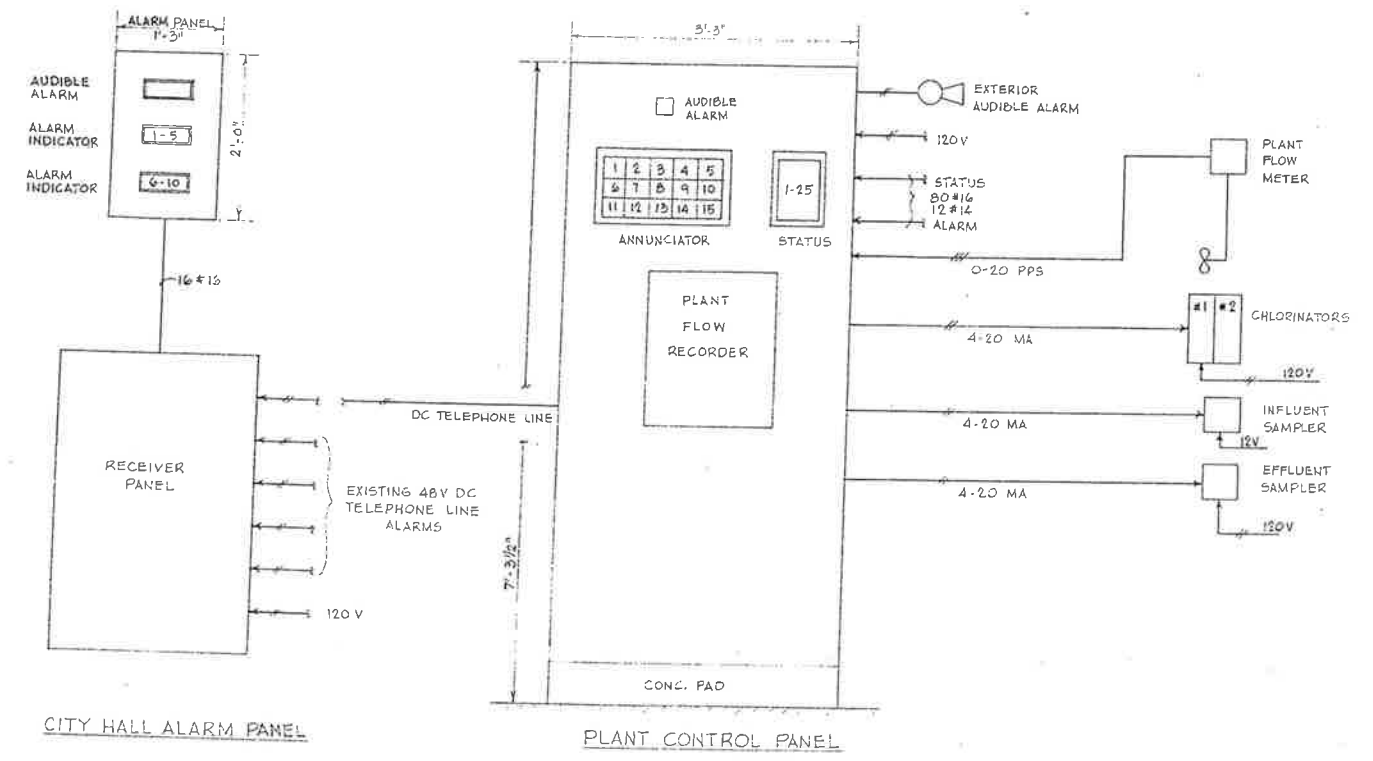
SLIDE GATE & FRAME SURFACE MOUNTED FRAME FLUSH MOUNTED FRAME
 TYPICAL SLIDE GATE & FRAME DETAIL 1 P-13

SHEET NO.	SLIDE GATE DESIG.	LOCATION (STRUCTURE)	DIMENSIONS				FRAME TYPE (SURFACE OR FLUSH)	NUMBER OF GATES REQUIRED
			A	B	C	D		
P-2	(1a) (1b)	PUMP STATION	1'-7"	2'-6"	1'-6"	2'-6"	F	1
P-4	(2)	GRIT CHANNEL	1'-10"	*2'-10 1/2"	1'-9"	2'-10 1/2"	F	1
P-4	(3)		1'-1"	*2'-10 1/2"	1'-0"	2'-10 1/2"	F	1
P-6	(4a) (4b)	CHLORINE CONTACT BASIN	1'-7"	*3'-4 1/2"	1'-6"	3'-4 1/2"	F	1
P-9	(5)	CLARIFIER CONTROL STRUCT.	2'-3"	*3'-4 1/2"	2'-2"	3'-4 1/2"	F	1
P-9	(6a) (6b)		1'-9"	*3'-4 1/2"	1'-0"	3'-4 1/2"	F	2
P-10	(7a) (7b)	CHLORINE CONTACT BASIN	1'-1"	2'-6"	1'-0"	2'-6"	F	2
P-4	(8)	GRIT CHANNEL	1'-1"	3'-7"	1'-0"	3'-7"	F	1

* WHERE GRATING OCCURS OVER SLIDE GATE THERE SHALL BE 3/4" CLEARANCE BETWEEN BOTTOM OF GATE.

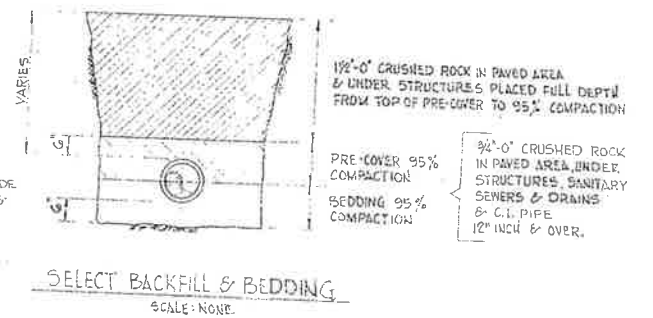
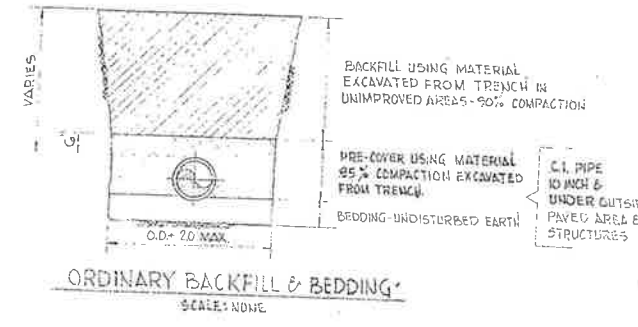
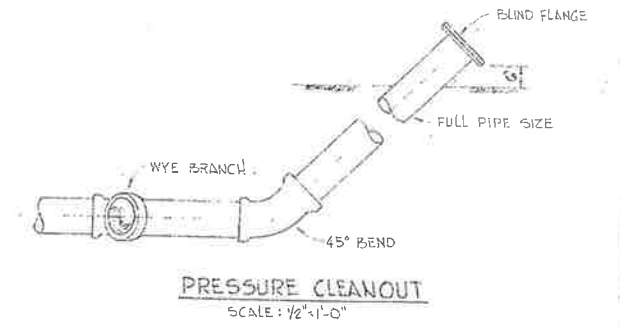
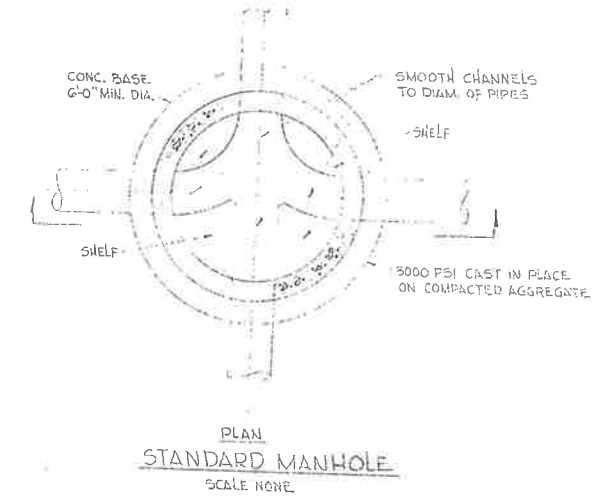
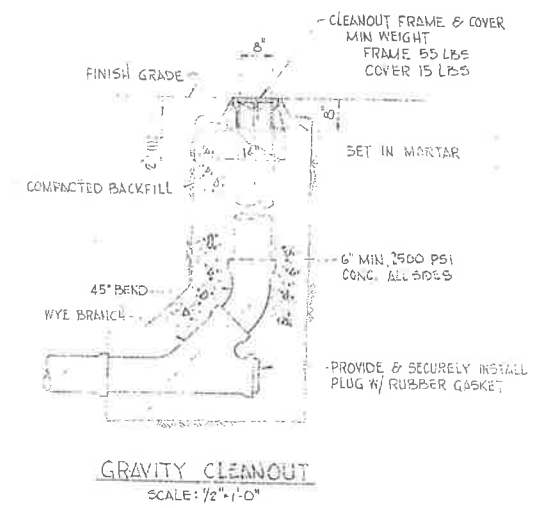
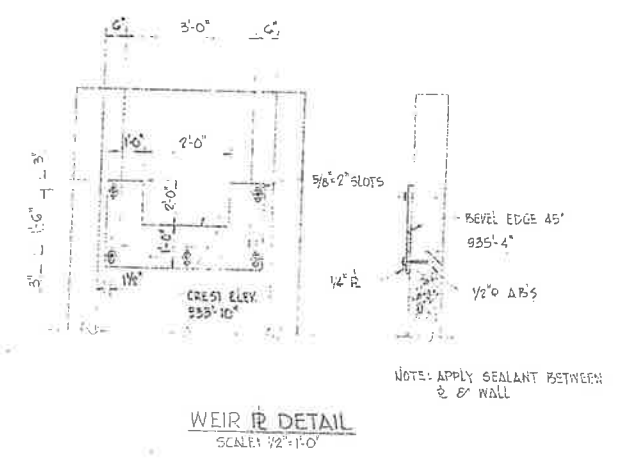
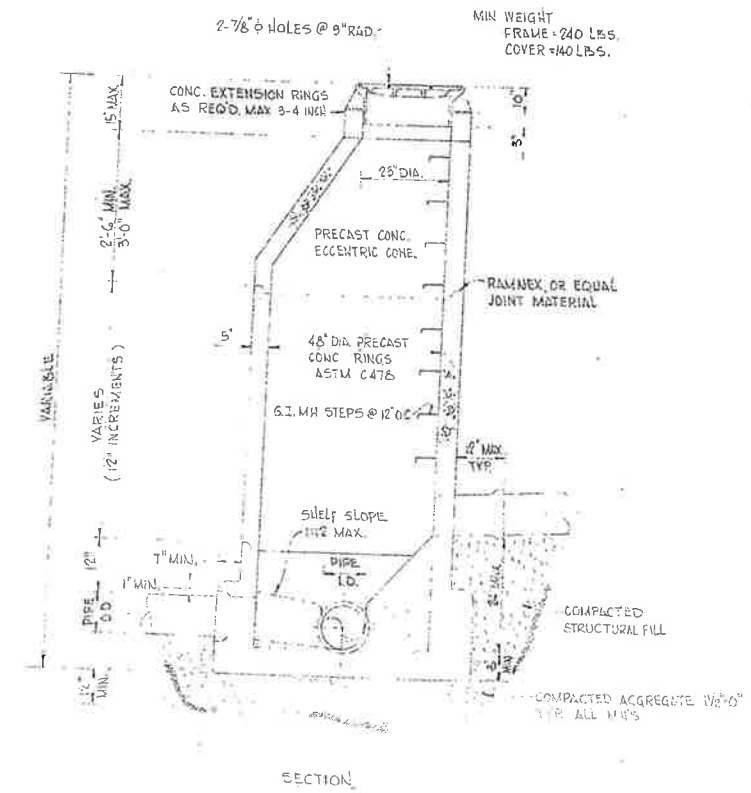
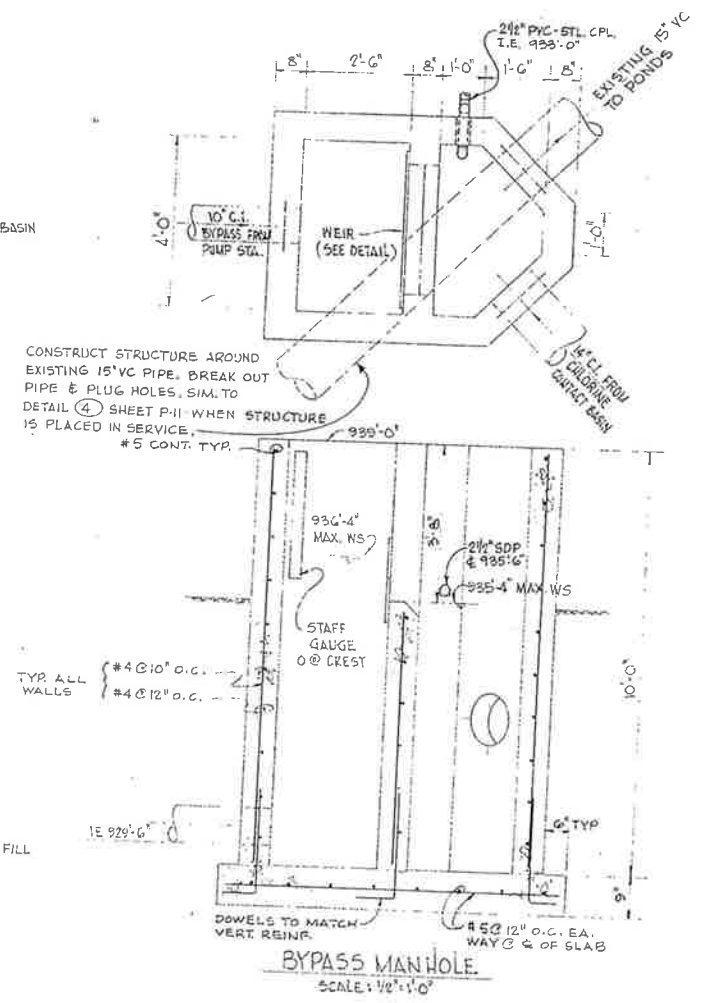
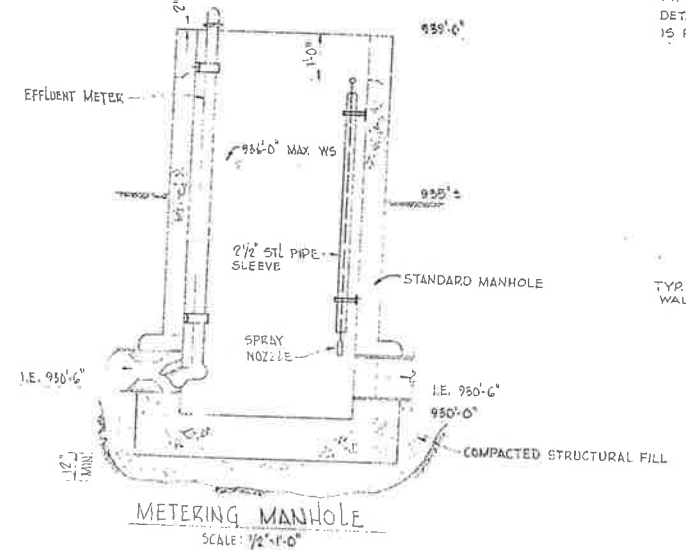
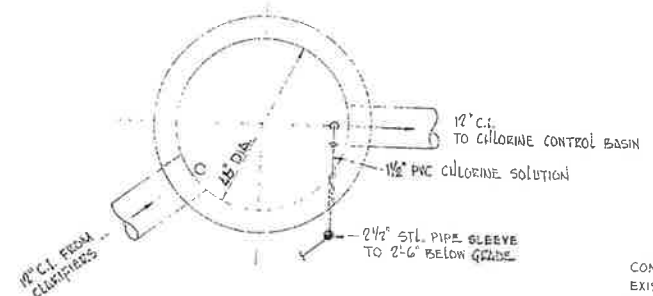


TYPICAL ANGLE CUT FOR SLIDE GATE CHANNEL 2 P-13
 NO SCALE



SCHEDULE ALARM PANEL		SCHEDULE ANNUNCIATOR		SCHEDULE STATUS PANEL	
POINT	NAMEPLATE	POINT	NAMEPLATE	POINT	NAMEPLATE
1	WASTEWATER PLANT	1	COMMINUTOR	1	COMMINUTOR
2	B ST PS	2	HIGH WATER PS	2	PUMP #1 PS
3	FAIRGROUNDS PS	3	HIGH WATER INT. PS	3	PUMP #2 PS
4	BLANK	4	AERATOR #1	4	PUMP #3 PS
5	BLANK	5	AERATOR #2	5	GRIT PUMP
6	WATER TREATMENT PLANT	6	CLARIFIER #1	6	CLASSIFIER
7	WATER TANK	7	CLARIFIER #2	7	AERATOR #1
8	BLANK	8	CLARIFIER #3	8	AERATOR #2
9	BLANK	9	PLANT WATER PUMP	9	PUMP #1 INT. PS
10	BLANK	10	SEAL WATER	10	PUMP #2 INT. PS
		11	BLOWER #1	11	PUMP #3 INT. PS
		12	BLOWER #2	12	CLARIFIER #1
		13	CL STORAGE RM	13	CLARIFIER #2
		14	CL CHLORINATOR RM	14	CLARIFIER #3
		15	BLANK	15	PLANT WATER PUMP
				16	SEAL WATER PUMP #1
				17	SEAL WATER PUMP #2
				18	BLOWER #1
				19	BLOWER #2
				20	SLUDGE PUMP #1
				21	SLUDGE PUMP #2
				22	BLANK
				23	BLANK
				24	BLANK
				25	BLANK

PROCESS CONTROL SCHEMATIC
 NO SCALE



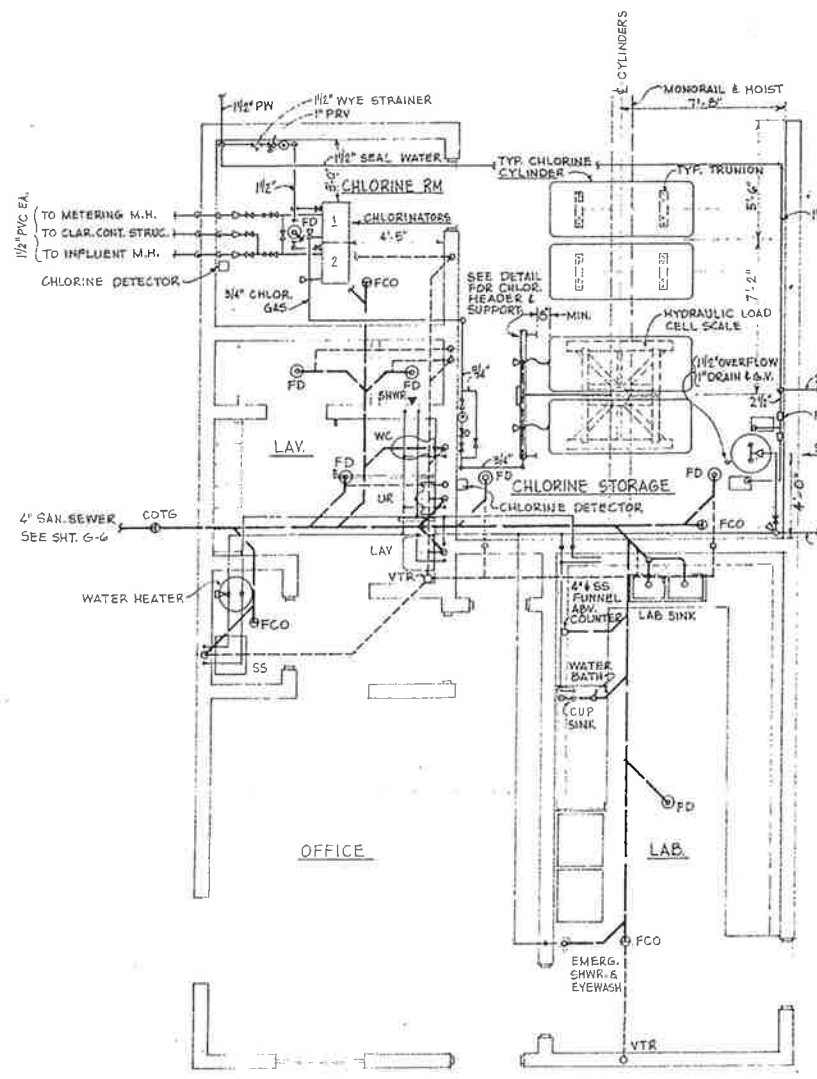
BY	DATE	REVISIONS

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

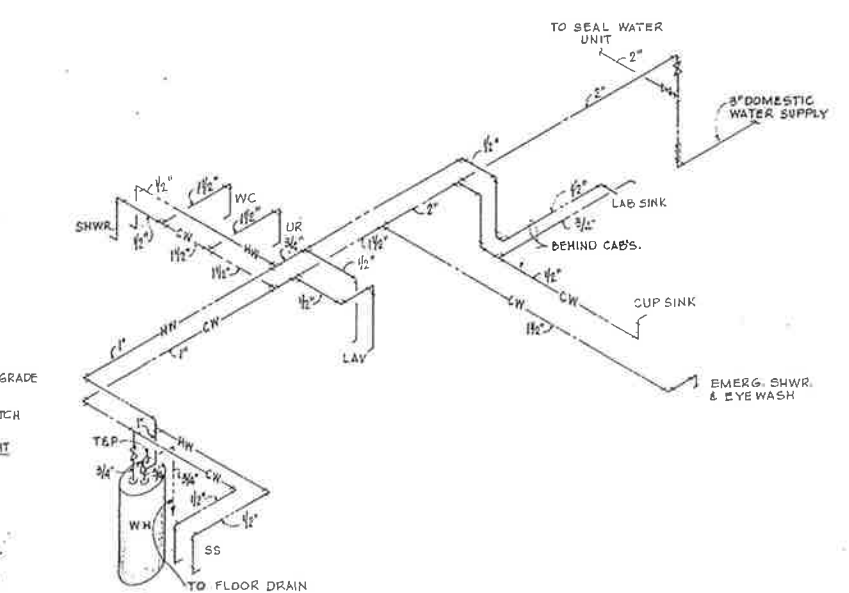
BY	DATE
Design	JLB 3/76
Drawn	WF 3/76
Chk.	JLB 3/76
Cd/Const.	JLB 3/76
Proj. Eng.	JLB 3/76
Dist. Eng.	
File M. No.	

WILSEY & HAM
METERING & BYPASS MANHOLES
AND MISCELLANEOUS DETAILS

PI4
PI4
DWG NO.
1-1892-0902-55
SCALE: AS NOTED
DATE: MAR 1976



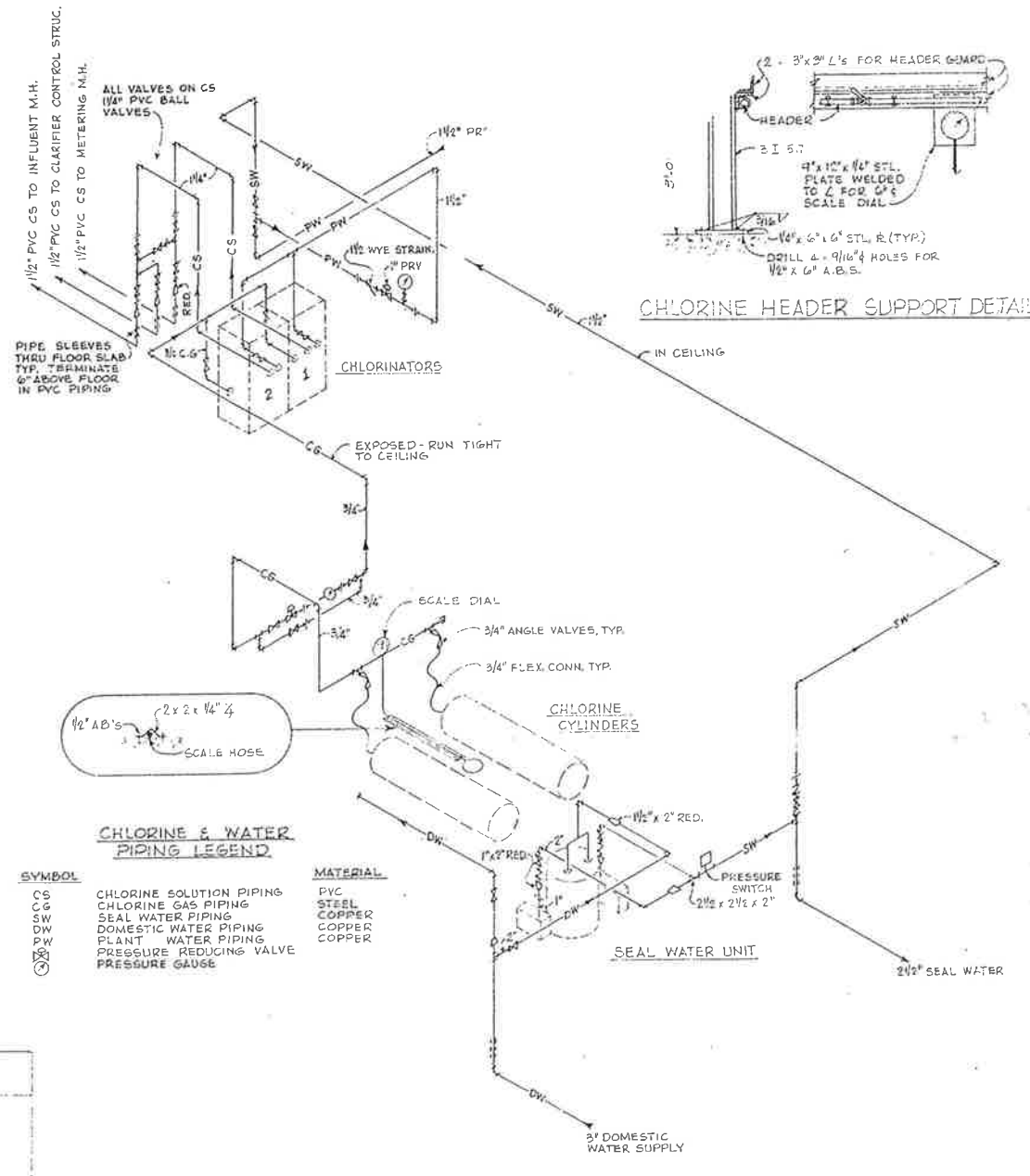
PLUMBING & CHLORINATION PLAN
SCALE 1/4" = 1'-0"



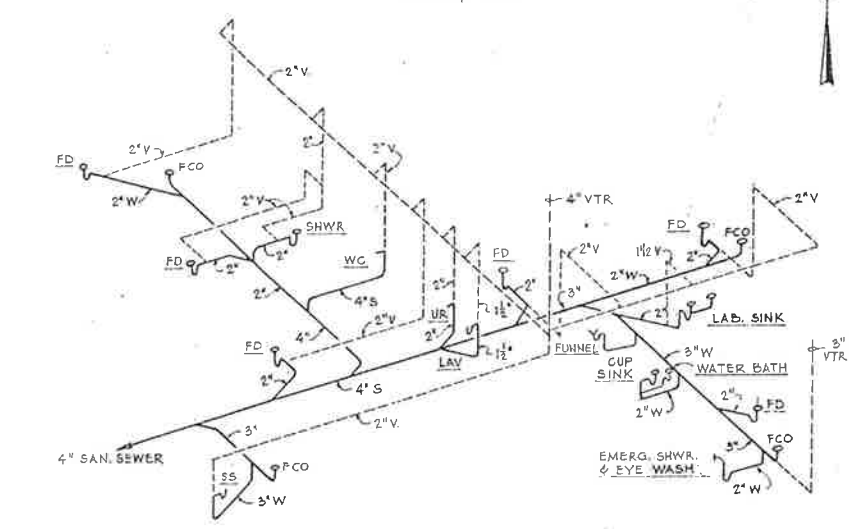
ISOMETRIC OF HOT & COLD WATER PIPING
NO SCALE

SYMBOL	DESCRIPTION	WATER		WASTE	
		HOT	COLD	SOIL	VENT
WC	WATER CLOSET	-	1"	4"	2"
UR	URINAL	-	3/4"	2"	1 1/2"
LAV	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"
SHWR	SHOWER	1/2"	1/2"	2"	2"
SS	SERVICE SINK	1/2"	1/2"	3"	2"
-	LAB. SINK	1/2"	1/2"	1 1/2"	1 1/2"
-	CUP SINK	1/2"	1/2"	1 1/4"	-
-	EMERG. SHWR. & EYE WASH	-	1 1/4"	1 1/4"	-
FD	FLOOR DRAIN	-	-	2"	2"

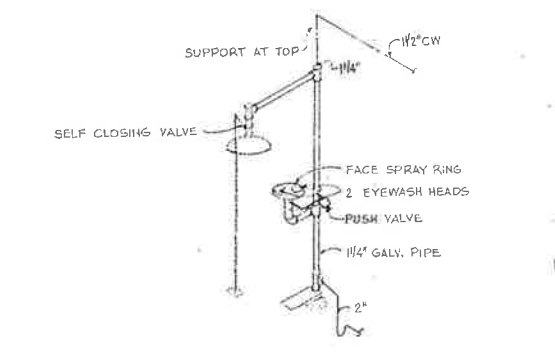
MECHANICAL LEGEND	
— S —	SOIL OR WASTE
— CW —	DOMESTIC COLD WATER
— HW —	DOMESTIC HOT WATER
— V —	VENT
—>	DIRECTION OF FLOW
— GY —	GATE VALVE
— GL —	GLOBE VALVE
— CKV —	CHECK VALVE
— V I R —	VALVE IN RISER
— E 90° —	ELBOW 90°
— E 45° —	ELBOW 45°
— T U R N —	ELBOW TURNED DOWN
— T U R N —	ELBOW TURNED UP
— T E E —	TEE OUTLET DOWN
— T E E —	TEE OUTLET UP
— H B —	HOSE BIBB
— F D —	FLOOR DRAIN
— F C O —	FLOOR CLEANOUT
— C O T G —	CLEANOUT TO GRADE
— V T R —	VENT THRU ROOF
— T & P —	TEMPERATURE & PRESSURE RELIEF VALVE
— T Y P —	TYPICAL UNION - UNION SHALL BE INSTALLED AT ALL VALVES
— W —	WASTE
— W H —	WATER HEATER
— HP —	HORSEPOWER
— MBH —	THOUSANDS BRITISH THERMAL UNIT
— RL —	REFRIGERANT LIQUID
— RS —	REFRIGERANT SUCTION
— HGP —	HOT GAS BYPASS
— OA —	OUTSIDE AIR
— CR —	CEILING RETURN OR EXHAUST
— C S D —	CEILING SUPPLY DIFFUSER
— N A —	NO ARROWS INDICATES 2, 3, OR 4 WAY
— U F —	UPPER FIGURE CFM
— L F —	LOWER FIGURE DEVICE SIZE
— D U C T —	DUCT - PLAN VIEW
— D U C T —	DUCTURNS
— M D —	MANUAL DAMPER
— B D D —	BACKDRAFT DAMPER, BDD
— E X T —	EXTRACTOR
— T —	THERMOSTAT



ISOMETRIC OF CHLORINATION SYSTEM
NO SCALE



ISOMETRIC OF SOIL & VENT PIPING
NO SCALE



EMERGENCY SHOWER & EYEWASH
NO SCALE

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

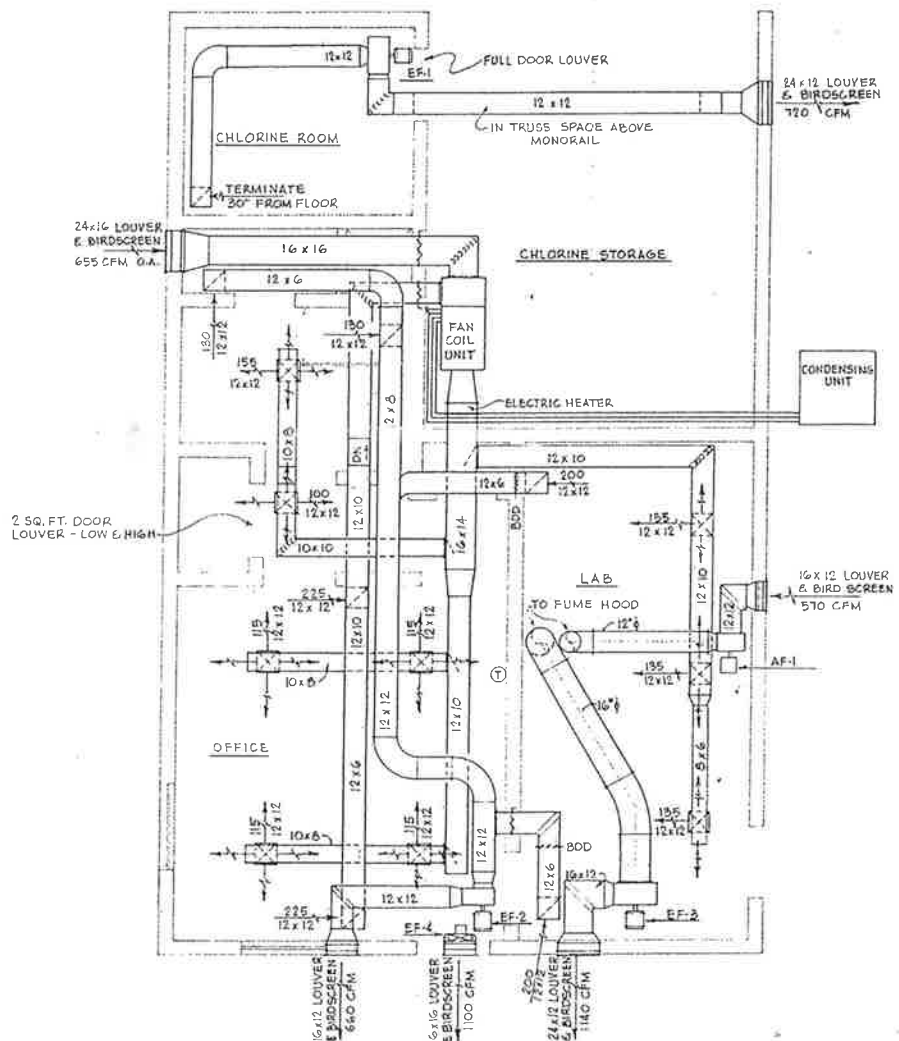
BY	DATE	REVISIONS

BY	DATE
Design JLB/AWM	3/76
Drawn FT	3/76
Chk. JLB/AWM	3/76
Chk./Comm.	
Proj. Eng. JLB	3/76
Dist. Eng.	
File No.	

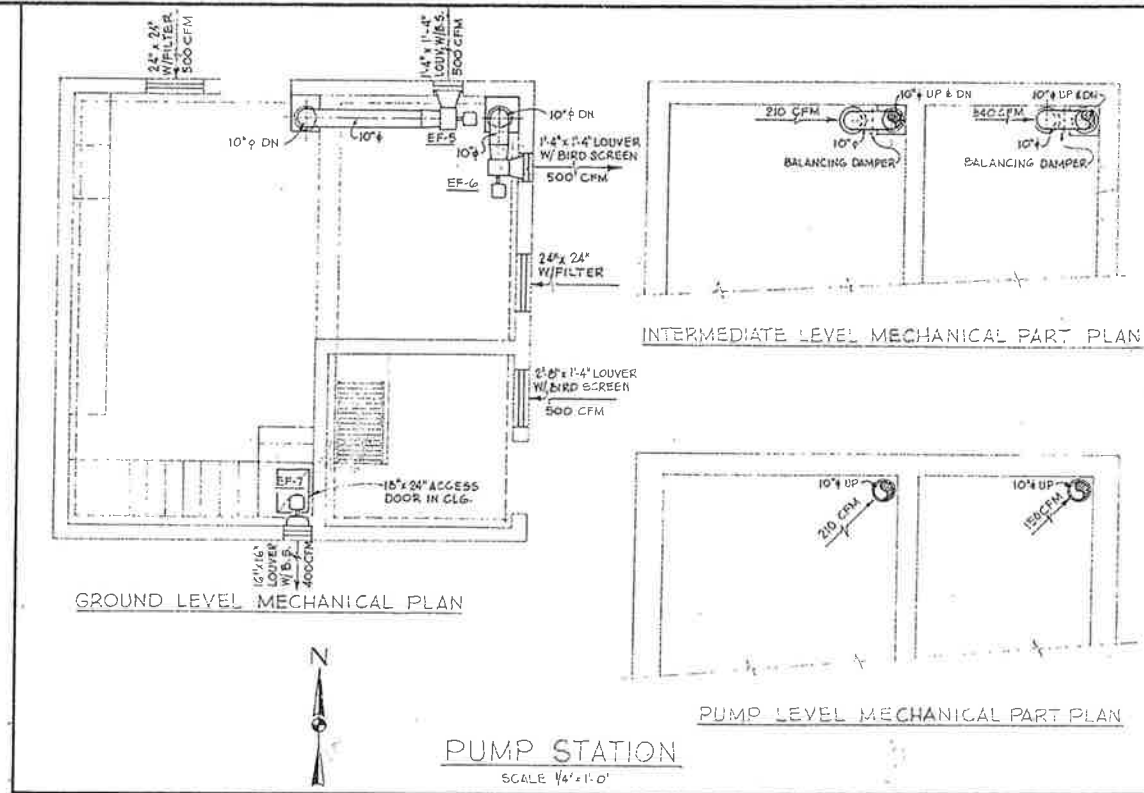
APPROVED: *[Signature]*

WILSEY & HAM
CONTROL BUILDING
PLUMBING & CHLORINATION

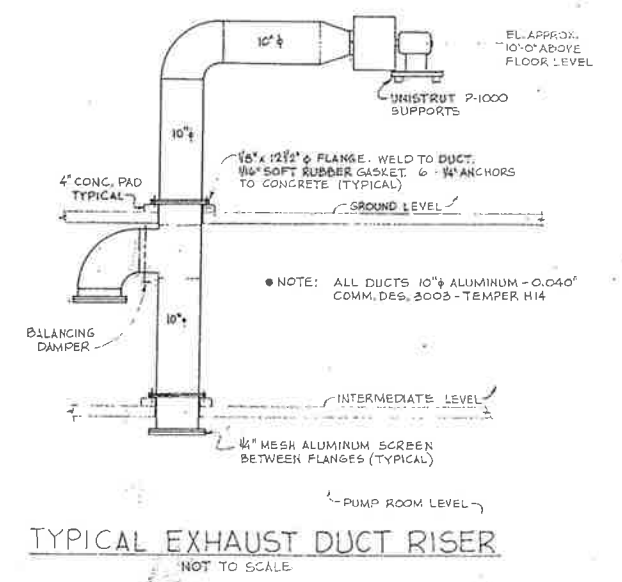
MI
M2
DRAWING NO. 1-1892-0902-60
SCALE AS NOTED
DATE MAR 1976



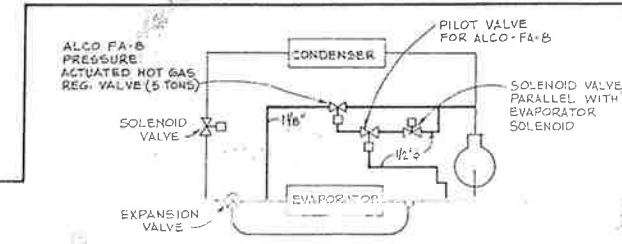
CONTROL BUILDING MECHANICAL PLAN
SCALE 1/4" = 1'-0"



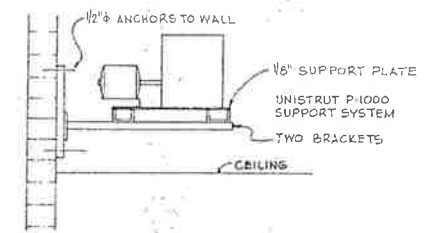
PUMP STATION
SCALE 1/4" = 1'-0"



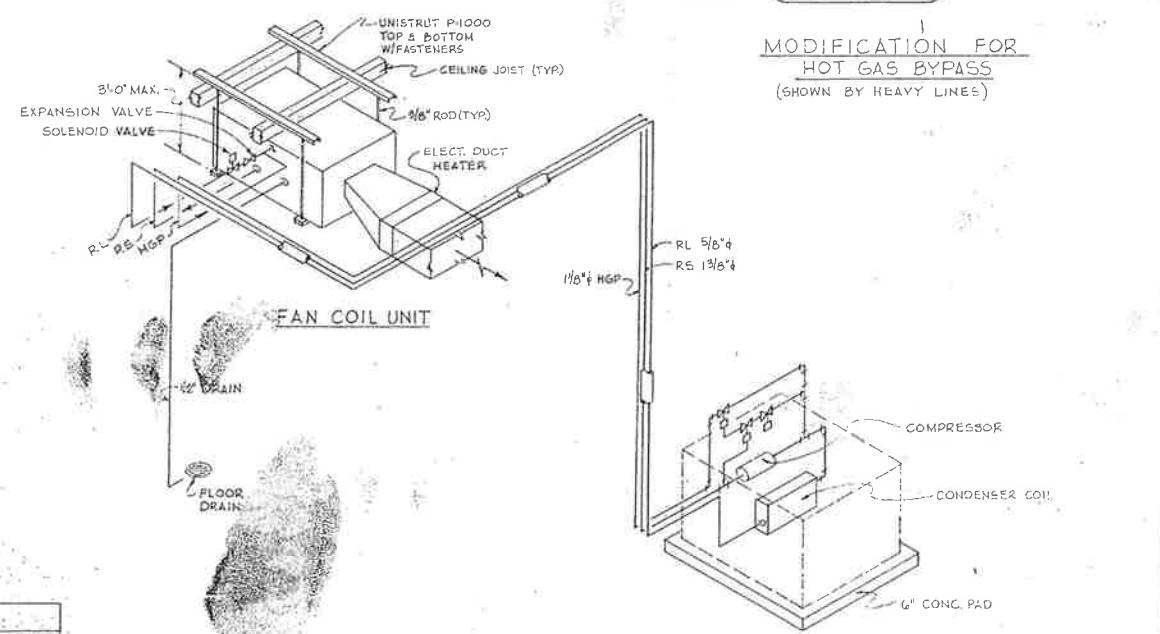
TYPICAL EXHAUST DUCT RISER
NOT TO SCALE



MODIFICATION FOR HOT GAS BYPASS
(SHOWN BY HEAVY LINES)



ATTIC FAN SUPPORT (TYP)
NO SCALE



A.C. UNIT PIPING & SUPPORT SCHEMATIC
NO SCALE

VENTILATION FAN SCHEDULE								
BLDG.		DESIG.	LOCATION	CFM	SP	HP	TYPE	POWER
CONTROL	CHLORINE EXHAUST	EF-1	ATTIC-NO.	720	1/4	1/2	1LG-B-15	120V-1Ø
	GENERAL EXHAUST	EF-2	ATTIC-SO.	660	3/8	1/2	B-15	
	HOOD EXHAUST	EF-3	ATTIC-SO.	1140	1/2	3/8	B-15	
	HOOD SUPPLY	AF-1	ATTIC-W	570	1/4	1/4	B-12	
PUMP	ATTIC EXHAUST	EF-4	ATTIC-SO.	1100	0	1/12	PV-123	
	DRY WELL EXHAUST	EF-5	NO. WALL	500	3/8	1/2	B-12	
	WET WELL EXHAUST	EF-6	NO. WALL	500	3/8	1/4	B-12	
	ATTIC EXHAUST	EF-7	ATTIC-SO.	400	0	1/80	PV-53	

NOTE: FOR LOUVER ELEVATIONS, SEE ARCHITECTURAL DWGS.

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

BY	DATE
Design	AWM 3/76
Drawn	FT 3/76
Chk	AWM 3/76
Chk/Comm.	
Prod. Eng.	JLB 3/76
Dist. Eng.	
PLC/EL. No.	

WILSEY & HAM
JOHN CONTROL BUILDING & PUMP STATION
MECHANICAL

M2
M2
SERIES NO
1-1892-0902-60
SCALE AS NOTED
DATE MAR 1976

- O M-20
- O M-21
- O M-23
- O M-24
- O M-19
- O M-17
- 1" SPARE O
- M-22 O
- M-18 O
- LTS O
- CONTROL #2 O
- P-6 O

SECTION A-A

- O M-7
- O M-6
- O M-5
- O C12(A)
- O C12(B)
- O M-20
- O M-21
- O M-23
- O M-24
- O M-19
- O M-17

SECTION B-B

- O C12(B)
- M-16 O
- M-16 O
- M-20 O
- M-20 O
- M-22 O
- M-18 O
- LTS O

SECTION C-C

- O M-7
- O M-6
- O M-5

SECTION D-D

- O C-12
- O M-15
- O M-4
- O M-1-A
- O M-26 (P-4)
- O CONTROL #1

SECTION E-E

- O CONTROL #1
- O M-1A
- O M-26 (P-4)

SECTION F-F

- O CONTROL #2
- O P-6

SECTION G-G

- O M-1A
- O M-26 (P-4)
- P-22A O

SECTION H-H

- O P-22 B
- O P-6
- O CONTROL #2
- O M-22
- O M-18
- O P-26

SECTION J-J

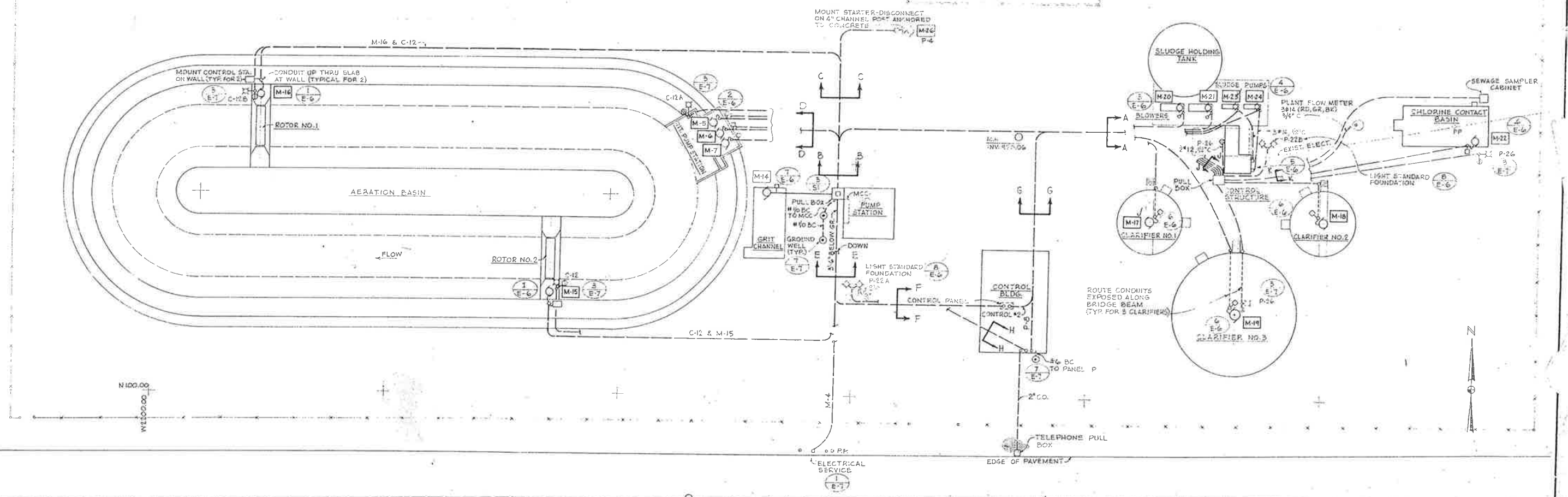
- O SEWAGE SAMPLER
- O FLOWMETER
- O M-22
- O P-26

SECTION K-K

CONDUIT	CONDUIT SIZE	CONDUCTORS	REMARKS
P-4 (M-26)	3/4"	2 #12, 1 #12 GR	
P-6	3/4"	2 #10, 1 #12 GR	
P-22 A, B	3/4"	2 #10, 1 #12 GR	
P-26	3/4"	2 #10, 1 #12 GR	
C-12	3/4"	2 #10, 1 #12 GR	
CONTROL #1	3"	80 CONDUCTOR #16 SO	
CONTROL #2	3/4"	2 #14 (2D, 3R, BK)	PLANT FLOW METER
EFFLUENT SEWAGE SAMPLER	3/4"	2 #10, 1 #12 GR	EFFLUENT SEWAGE SAMPLER FROM P-6
PLANT FLOW METER	3/4"	2 #10, 1 #12 GR	FROM CONTROL #2



NOTE:
ALL CONDUIT RUNS TO HAVE A MINIMUM OF 2'-0" OF GROUND COVER UNLESS NOTED OTHERWISE



ELECTRICAL SITE PLAN
SCALE 1" = 20'-0"

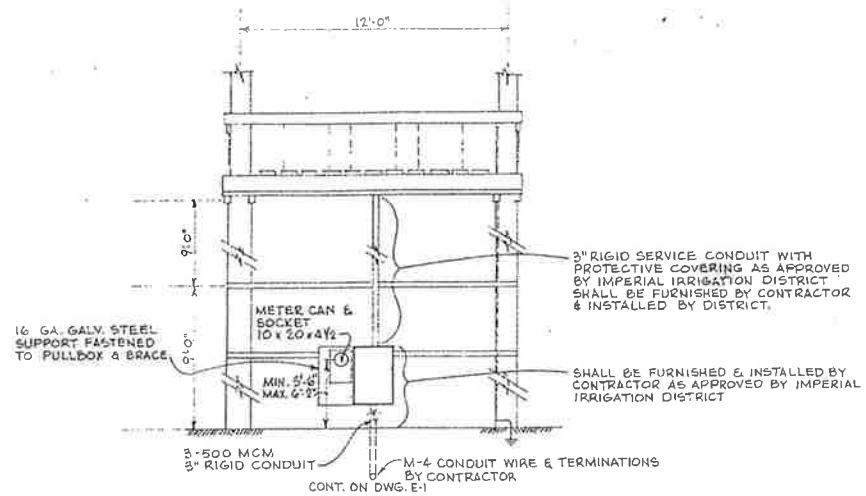
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

BY	DATE
Design	AWM 3/76
Drawn	FT 3/76
Chk.	AWM 3/76
Chf./Cont.	
Prod. Eng.	JLB 3/76
Dir. Eng.	
FM No.	

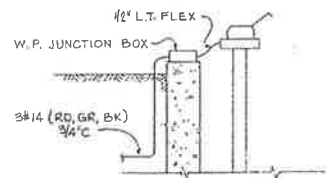
WILSEY & HAM
ELECTRICAL SITE PLAN

EI
E7
SCALE: AS NOTED
DATE: MAR, 1976

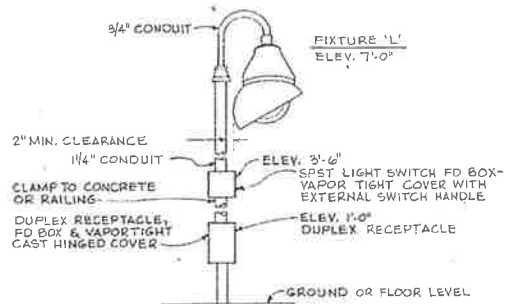
BY	DATE	REVISIONS



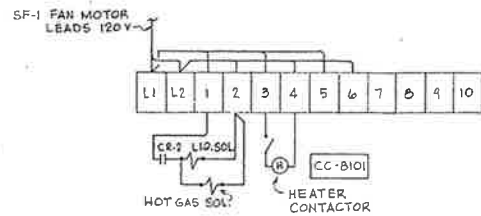
ELECTRICAL SERVICE 1
NO SCALE E-7



FLOW METER CONNECTION DETAIL 2
NO SCALE E-7

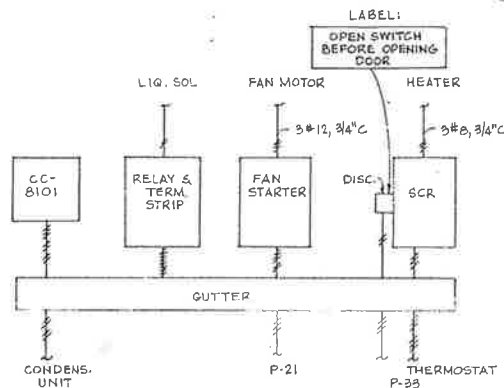


LOCAL EQUIPMENT SERVICE 3
NO SCALE E-7



REFER TO AIR CONDITIONING CONTROL DIAGRAM, DWG. E-5

RELAY ENCL. TERM. STRIP 4
NO SCALE E-7

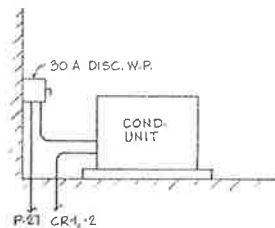


REFER TO CONTROL DIAGRAM E-5

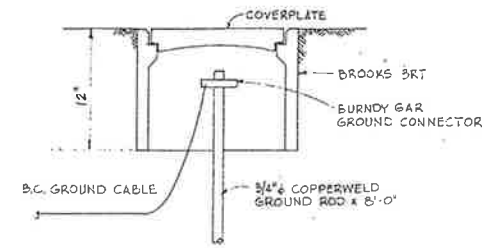
- NOTES:
1. WIRING TO THERMOSTAT #18 TAWN, 1/2".
 2. OTHER WIRING #12, EXCEPT WHERE OTHERWISE SHOWN.
 3. 2-WIRE CONDUIT 1/2", ALL OTHER 3/4"

REFER TO AIR CONDITIONING CONTROL DIAGRAM, DWG. E-5

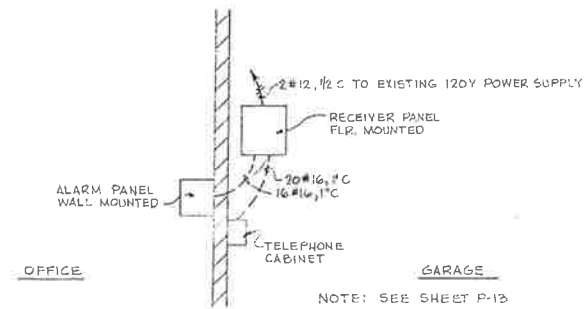
ELECT. LAYOUT-SO. WALL CHLORINE STORAGE 5
NO SCALE E-7



CONDENSING UNIT CONNECTIONS LOCATION-EAST SIDE OF BLDG. 6
NO SCALE E-7

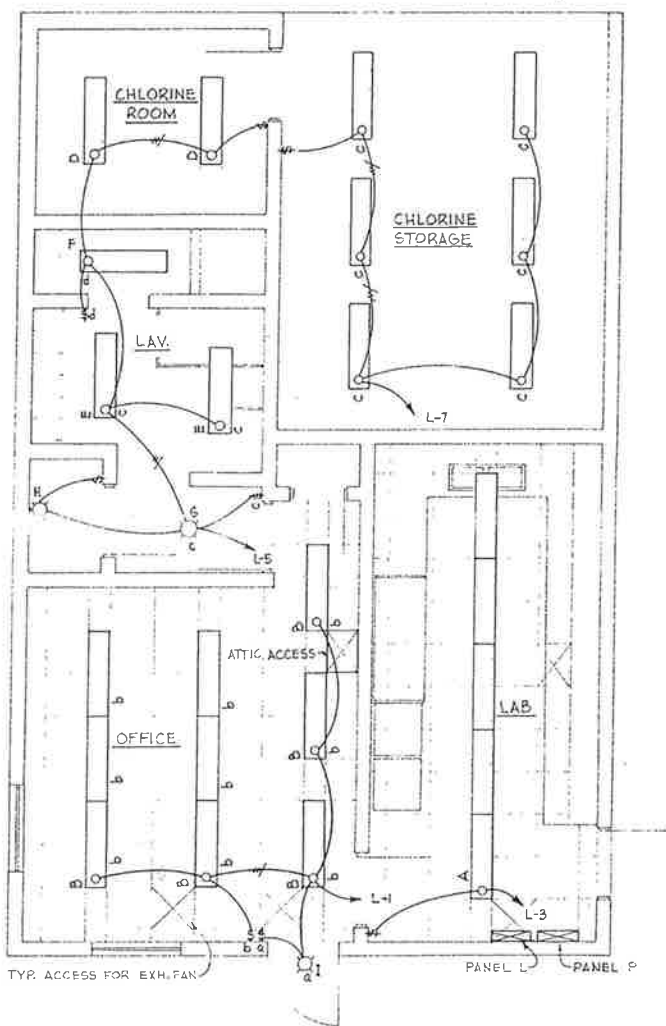


GROUND WELL DETAIL 7
E-7

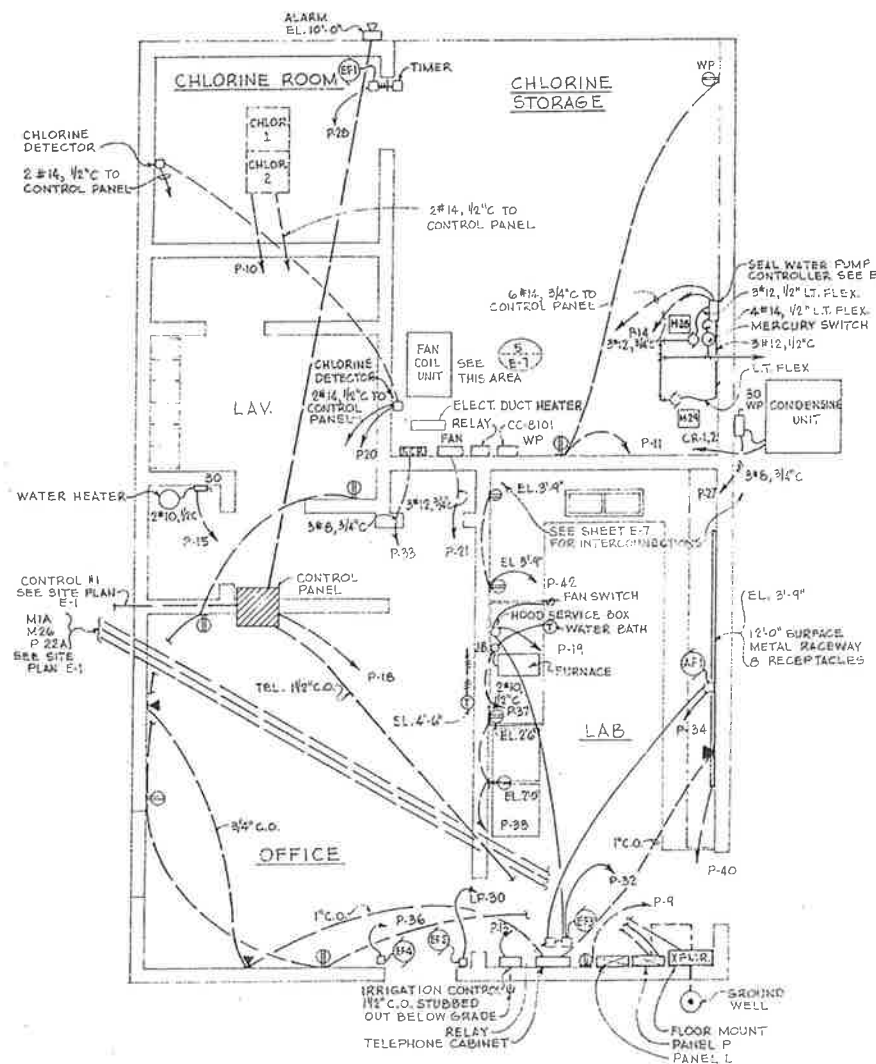


CITY HALL ALARM PANEL 8
NO SCALE E-7

BY	DATE
Design	AWM 3/76
Drawn	FT 3/76
Chk.	AWM 3/76
Chk./Cont.	
Proj. Eng.	JLB 3/76
Dist. Eng.	
FIG. EN. NO.	



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



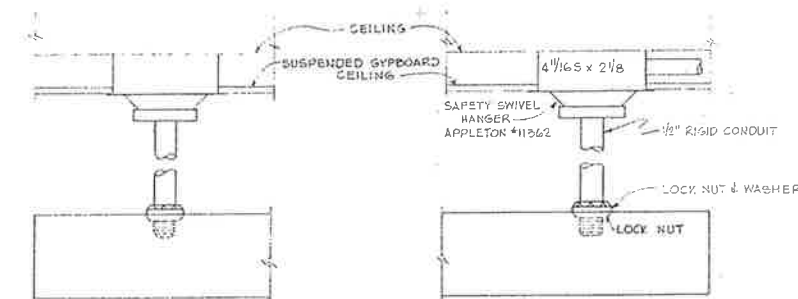
POWER & SIGNAL PLAN
SCALE 1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE

SYMBOL	FIXTURE DESCRIPTION	LAMPS	MOUNTING
A *	FLUORESCENT LUMINAIRE, 4-FT, 120V, ACRYLIC LENS, FOR T-BAR CEILING HOLOPHANE B124 G 3LI	3-F40T12/RS/CW	RECESSED
B *	SAME AS "A" EXCEPT HOLOPHANE B124 G 2LI	2-F40T12/RS/CW	RECESSED
C	FLUORESCENT LUMINAIRE, 4-FT, 120V, ACRYLIC LENS, VANDAL PROOF, VAPORTIGHT, 130°F BALLAST, DAYBRITE 9-TR41241	2-F40T12/RS/CW	SUSPENDED-BOTTOM OF FIXTURE 10'-4" ELEV. (SEE DETAIL BELOW)
D	FLUORESCENT LUMINAIRE, 4 FT, 120V, ACRYLIC LENS, VAPORTIGHT, DAYBRITE R41241	2-F40T12/RS/CW	SURFACE
E	FLUORESCENT LUMINAIRE, 4 FT, 120V, ACRYLIC LENS, HOLOPHANE G912E2L1	2-F40T12/RS/CW	SURFACE
F	FLUORESCENT LUMINAIRE, 4 FT, 120V, ACRYLIC LENS, VAPORTIGHT, BAKED WHITE STEEL HOUSING BENJAMIN FE-1524-4	2-F40T12/RS CW	SURFACE
G	CEILING INCANDESCENT FIXTURE, WHITE OPAL GLOBE, 120V, PRESCOLITE CF-2.	1-100W-A19 INSIDE FROSTED	SURFACE
H	KEYLESS LAMPHOLDER, 120V, LEVITON 49675	1-100 W-A19 INSIDE FROSTED	WALL MOUNT 7'-6" ELEV.
I	WALL INCANDESCENT FIXTURE, WEATHERPROOF, 120V, STONECO 511-200	1-200W-A25	WALL MOUNT 8'-6" ELEV.
J	FLUORESCENT INDUSTRIAL LUMINAIRE, 4-FOOT, 120V, DAYBRITE 40211-4	2-F40T12/RS/CW	SUSPENDED-BOTTOM OF FIXTURE 8'-6" ELEV.(SEE DETAIL BELOW)
K	WALL INCANDESCENT FIXTURE, EXPLOSION PROOF, 120V, CLASS-1, DIVISION-1, GROUP-D, APPLETON AALB 1575	1-150W-A25	WALL MOUNT 7'-0" ELEV.
L	PENDANT INCANDESCENT FIXTURE, VAPOR TIGHT, 120V WITH GLOBE, GUARD & REFLECTOR. CROUSE-HINDS VDA126PRA	1-200W, P5-23	7'-0" (SEE DETAIL 3/E-7)
M **	FLOODLIGHT, HIGH PRESSURE SODIUM, 400W, 208V WITH 3 CONDUCTOR 50 CORD AND TWISTLOCK RECEPTACLE WITH PHOTOELECTRIC CONTROL. HUBBELL MAGNELITER SERIES 9800.	1-GE-LU400	25'-0" (SEE DETAIL 3/E-6)
*	FIXTURES SHALL BE SECURED INDEPENDENT OF CEILING GRID W/ #12 GALV. WIRE FROM EACH CORNER OF FIXTURE TO ROOF STRUCTURE ABOVE.		
**	SHALL BE AIMED AND ORIENTED AS DIRECTED IN FIELD.		

NOTES:

- PROVIDE TWO - 2" I.D. x 4" LG. G.I. PIPE STUBS IN COUNTER TOP UNDER FUME HOOD FOR ELECTRICAL CORD ACCESS. LOCATE AS DIRECTED BY ENGINEER.



TYPICAL SUPPORT FOR FIXTURES C, J
NO SCALE

SUPPORT BOXES FROM BAR HANGERS BETWEEN TRUSSES AT GYPROBOARD CEILINGS AND WITH 1/4" RED HEAD INSERTS AT CONCRETE CEILINGS.

BY	DATE	REVISIONS

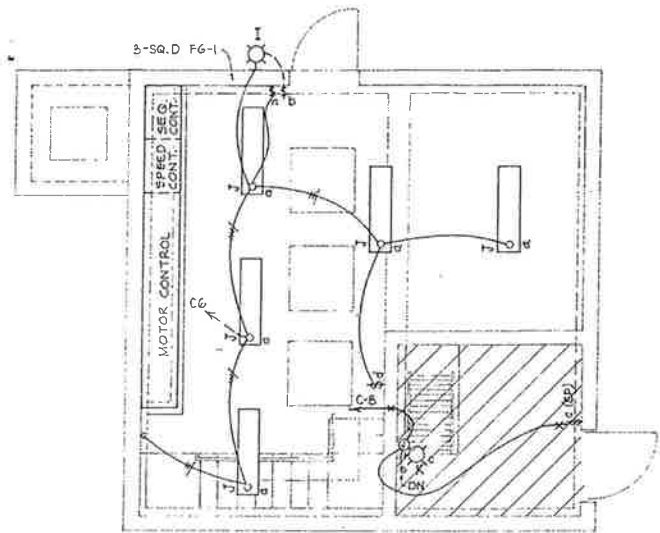
CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

APPROVED: *[Signature]*

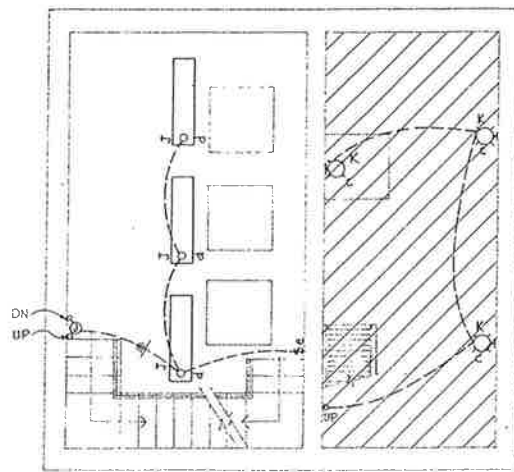
BY	DATE
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Drawn	FT 3/76
Chk.	AWM 3/76
Chk./Const.	
Proj. Eng.	JLB 3/76
Dir. Eng.	
Est. No.	

WILSEY & HAM
CONTROL BUILDING
LIGHTING & POWER

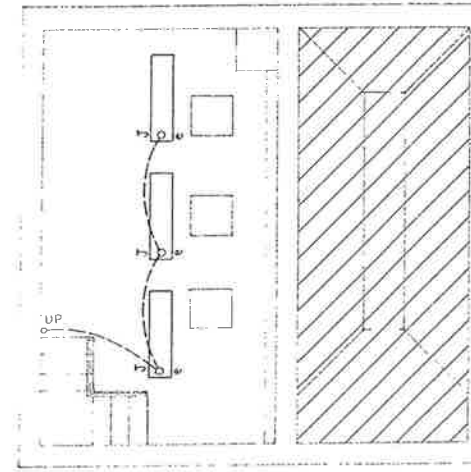
E2
E7
DWG. NO.
1-1892-0902-70
SCALE: AS NOTED
DATE: MAR 1976



GROUND LEVEL LIGHTING PLAN



INTERMEDIATE LEVEL LIGHTING PLAN

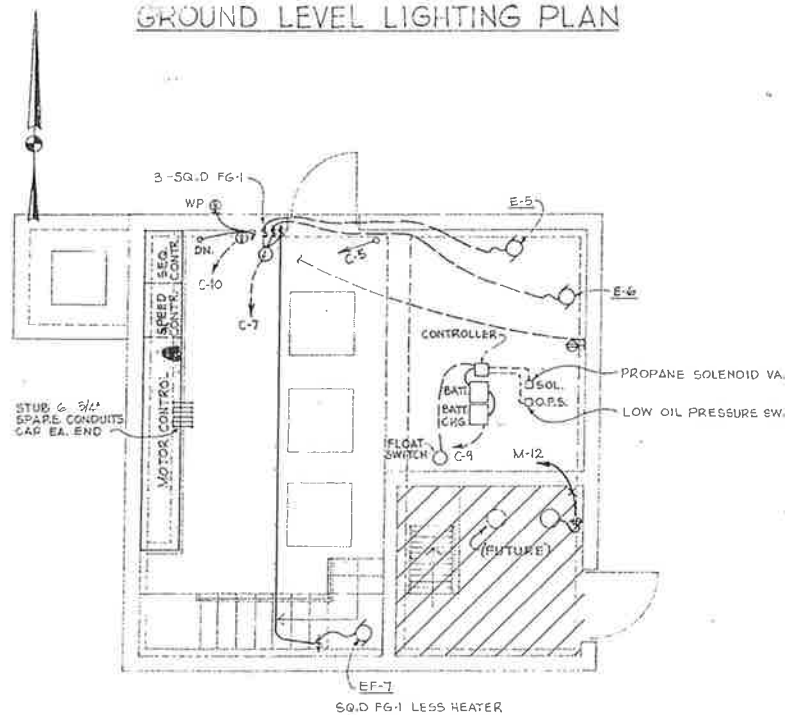


PUMP LEVEL LIGHTING PLAN

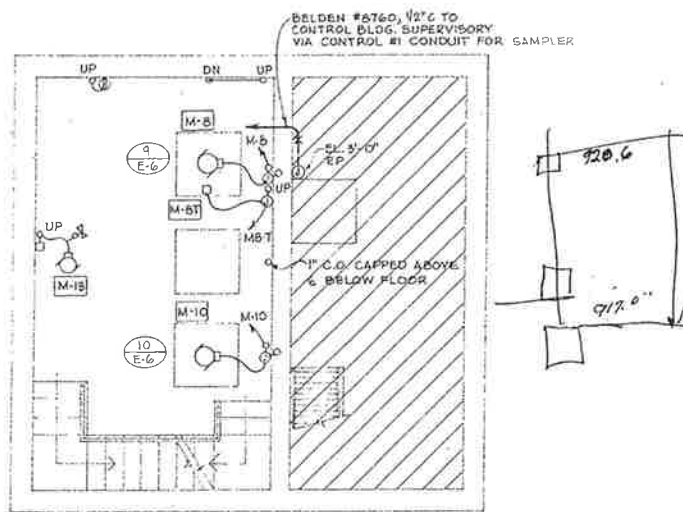
HIGH WATER ALARM	932'-6"
PUMP NOS. 1 & 2 @ MAX. SPEED	930'-0"
START PUMP #2 @ MIN. SPEED	930'-0"
ADJUST PUMP #1 TO MIN. SPEED	930'-2"
PUMP #1 @ MAX. SPEED	929'-4"
START PUMP #5	928'-10"
ADJUST PUMP #1 TO MIN. SPEED	928'-10"
PUMP #1 @ MAX. SPEED	927'-6"
START PUMP #1 @ MIN. SPEED	927'-0"
	927'-0"
	925'-0"
	BOTTOM BUBBLER PIPE

RISING LEVEL ↑ ↓ FALLING LEVEL

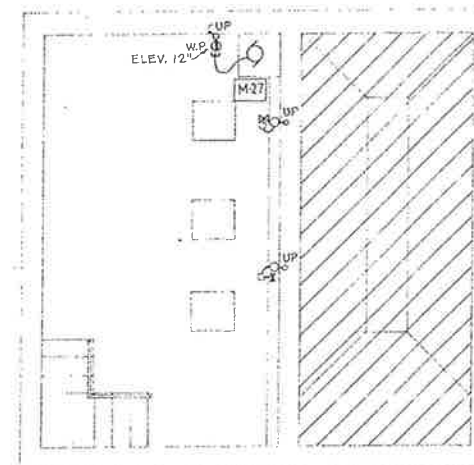
INTERMEDIATE PUMP STATION PUMPING SEQUENCE



GROUND LEVEL POWER PLAN



INTERMEDIATE LEVEL POWER PLAN

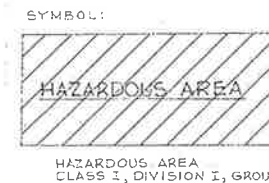


PUMP LEVEL POWER PLAN

HIGH WATER ALARM	927'-0"
PUMP NOS. 1 & 2 @ MAX. SPEED	920'-0"
START PUMP #2 @ MIN. SPEED	919'-11"
ADJUST PUMP #1 TO MIN. SPEED	918'-10"
PUMP NO. 1 @ MAX. SPEED	918'-2"
START PUMP #5	917'-8"
ADJUST PUMP #1 TO MIN. SPEED	917'-8"
PUMP #1 @ MAX. SPEED	916'-6"
START PUMP #1 @ MIN. SPEED	916'-0"
	916'-0"
	915'-0"
	BOTTOM BUBBLER PIPE

RISING LEVEL ↑ ↓ FALLING LEVEL

PUMP STATION PUMPING SEQUENCE



CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

BY	DATE
Design	AWM 3/76
Drawn	FT 3/76
Chk./Const.	AWM 3/76
Proj. Eng.	JLB 3/76
Dr. Eng.	
Plg. Dir.	

WILSEY & HAM
 PUMP STATION
 LIGHTING & POWER

E3
E7
 DWG. NO.
 1-1892-0902-70
 SCALE: 1/4" = 1'-0"
 DATE: MAR. 1976

BY DATE REVISIONS

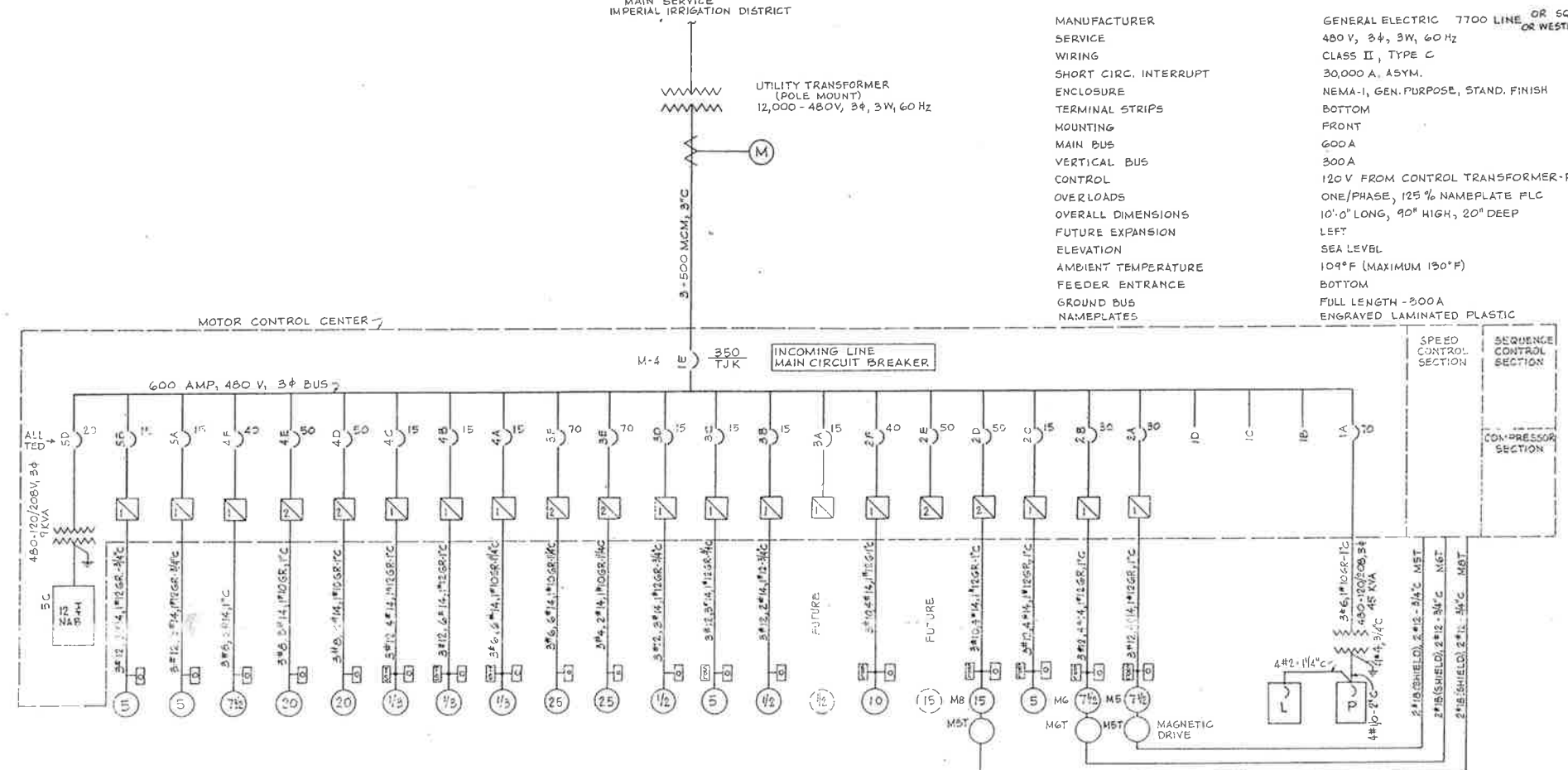
MCC REQUIREMENTS

PANEL P		LOCATION		PANEL CHARACTERISTICS												
		CONTROL BUILDING-LAB		VOLTS 120/208 AMPS 225 ϕ 3 W4 NEUT. 5			FEEDER (THRU FEED LOGS)						BRANCH CT.			
MPGR	MOUNTING	MAIN BREAKER		FEEDER			FEEDER BREAKER			ENTRANCE			FRAME			
GEN. ELECTRIC	SURFACE	VOLTS	AMP	FRAME	WIRES & SIZE			NO. AMPS			NO. AMPS			NO. AMPS		
CIRCUIT DESCRIPTION					LOAD AMPS			LOAD AMPS			LOAD AMPS			LOAD AMPS		
SPARE					20 1 A			20 3 B 4 15			20 5 C			20 7 A 8 20		
OFFICE RECEP.TS.					20 9 B 10 20			20 11 C 12			20 13 A 14 25			20 15 B 16		
CHLORINE STORAGE RECEP.TS.					20 17 A 18 20			20 19 B 20			20 21 C 22			20 23 A 24 25		
LABORATORY HOOD					20 25 B 26 30			20 27 A 28 30			20 29 B 30			20 31 C 32 30		
AIR CONDITIONING FAN					20 33 A 34 30			20 35 B 36 30			20 37 C 38 30			20 39 A 40 30		
AIR CONDITIONING CONDENSING UNIT					20 41 B 42 30			20 43 C 44 30			20 45 A 46 30			20 47 B 48 30		
AIR CONDITIONING DUCT HEATER					20 49 C 50 30			20 51 A 52 30			20 53 B 54 30			20 55 C 56 30		
FURNACE & WATER BATH					20 57 A 58 30			20 59 B 60 30			20 61 C 62 30			20 63 A 64 30		
SPARE					20 65 B 66 30			20 67 C 68 30			20 69 A 70 30			20 71 B 72 30		

PANEL C		LOCATION		PANEL CHARACTERISTICS												
		MCC		VOLTS 120/208 AMPS 50 ϕ 3 W4 NEUTRAL 5			FEEDER						BRANCH CT.			
MPGR	MOUNTING	MAIN BREAKER		FEEDER			FEEDER BREAKER			ENTRANCE			FRAME			
G.E.	FLUSH	VOLTS	AMP	FRAME	WIRES & SIZE			NO. AMPS			NO. AMPS			NO. AMPS		
CIRCUIT DESCRIPTION					LOAD AMPS			LOAD AMPS			LOAD AMPS			LOAD AMPS		
MCC CONTROL					15 1 A 1 15			15 3 B 4 15			15 5 C 6 20			15 7 A 8 15		
MCC CONTROL (SPARE)					15 9 B 10 20			15 11 C 12 20			15 13 A 14 25			15 15 B 16 30		
SUMP PUMP M-2					15 17 C 18 30			15 19 A 20 30			15 21 B 22 30			15 23 C 24 30		
VENT FANS #1-#7					15 25 A 26 30			15 27 B 28 30			15 29 C 30 30			15 31 A 32 30		
BATTERY CHARGER					15 33 B 34 30			15 35 C 36 30			15 37 A 38 30			15 39 B 40 30		
SPARE					15 41 C 42 30			15 43 A 44 30			15 45 B 46 30			15 47 C 48 30		

ELECTRICAL LEGEND

- WIRING CONCEALED IN CEILING OR WALL
- WIRING CONCEALED IN FLOOR OR UNDERGROUND
- - - WIRING EXPOSED
- L.P. HOME RUN WITH CIRCUIT NO.
- TICS INDICATE NO. OF WIRES. LONG TIC IS NEUTRAL.
- NO TICS INDICATE TWO #12 WIRES, 1/2" CONDUIT
- SEAL FITTING
- PANELBOARD
- FLUORESCENT LIGHTING FIXTURE
- INCANDESCENT OR MERCURY VAPOR LIGHTING FIXTURE
- POLE MOUNTED LUMINAIRE
- MOTOR
- DISCONNECT SWITCH, 30 AMPS
- GROUND WELL
- DUPLEX RECEPTACLE OUTLET - ELEV. 1'-0" OR AS SHOWN
- MULTI-OUTLET ASSEMBLY
- SINGLE POLE SWITCH - SUBSCRIPT INDICATES FIXTURES SWITCHED. ELEV. 2'-6" OR AS SHOWN.
- TELEPHONE OUTLET, ELEV. 1'-0"
- CLOCK HANGER RECEPTACLE - ELEV. 7'-6"
- JUNCTION BOX
- WP WEATHER PROOF
- EP EXPLOSION PROOF
- B.C. BARE COPPER
- C.O. CONDUIT ONLY
- CR RED INDICATING LIGHT B-BLUE
- LOS CONTROL RELAY
- HOA LOCK-OUT STOP
- TC HAND OFF AUTO
- TR TIME CLOCK
- ETM TIME DELAY RELAY
- VT ELAPSED TIME METER
- VT VAPOR TIGHT
- PUSHBUTTON STATION
- L.T. FLEX. LIQUID TIGHT FLEXIBLE CONDUIT



MANUFACTURER GENERAL ELECTRIC 7700 LINE OR SQUARE D OR WESTINGHOUSE

SERVICE 480 V, 3 ϕ , 3W, 60 Hz

WIRING CLASS II, TYPE C

SHORT CIRC. INTERRUPT 30,000 A, 45YM.

ENCLOSURE NEMA-1, GEN. PURPOSE, STAND. FINISH

TERMINAL STRIPS BOTTOM

MOUNTING FRONT

MAIN BUS 600A

VERTICAL BUS 300A

CONTROL 120 V FROM CONTROL TRANSFORMER-PANEL

OVERLOADS ONE/PHASE, 125% NAMEPLATE FLC

OVERALL DIMENSIONS 10'-0" LONG, 90" HIGH, 20" DEEP

FUTURE EXPANSION LEFT

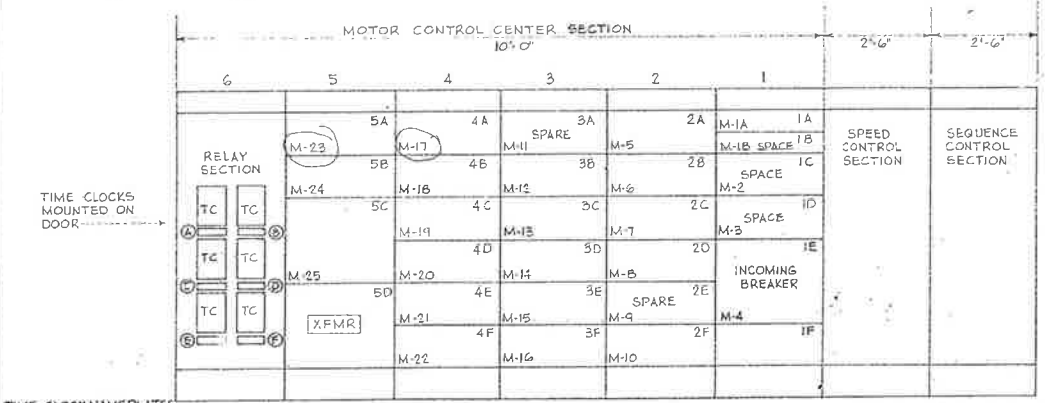
ELEVATION SEA LEVEL

AMBIENT TEMPERATURE 109°F (MAXIMUM 130°F)

FEEDER ENTRANCE BOTTOM

GROUND BUS FULL LENGTH - 300A

NAMEPLATES ENGRAVED LAMINATED PLASTIC



PANEL L		LOCATION		PANEL CHARACTERISTICS												
		CONTROL BLDG - LAB.		VOLTS 120/208 AMPS 50 ϕ 3 W4 NEUT. 5			FEEDER						BRANCH CT.			
MPGR	MOUNTING	MAIN BREAKER		FEEDER			FEEDER BREAKER			ENTRANCE			FRAME			
GENERAL ELECTRIC	SURFACE	VOLTS	AMP	FRAME	WIRES & SIZE			NO. AMPS			NO. AMPS			NO. AMPS		
CIRCUIT DESCRIPTION					LOAD AMPS			LOAD AMPS			LOAD AMPS			LOAD AMPS		
LIGHTING - OFFICE					20 1 2 20			20 3 4 20			20 5 6 20			20 7 8 20		
- LABORATORY					20 9 10 20			20 11 12 20			20 13 14 20			20 15 16 20		
- TOILET, CHLORINE RM.					20 17 18 20			20 19 20 20			20 21 22 20			20 23 24 20		
- CHLORINE STORAGE					20 25 26 20			20 27 28 20			20 29 30 20			20 31 32 20		
SPARE					20 33 34 20			20 35 36 20			20 37 38 20			20 39 40 20		

MCC & BUBBLER-SPEED CONTROL SECTION ELEVATION
NOT TO SCALE

BY	DATE	REVISIONS

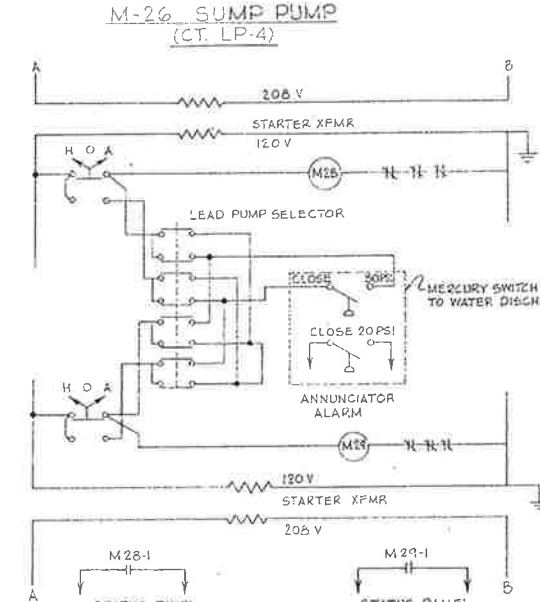
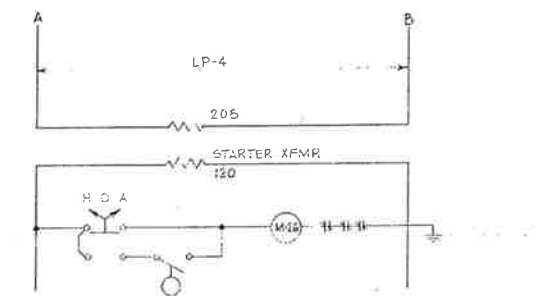
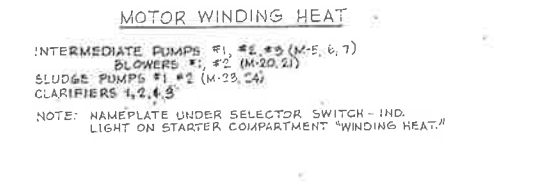
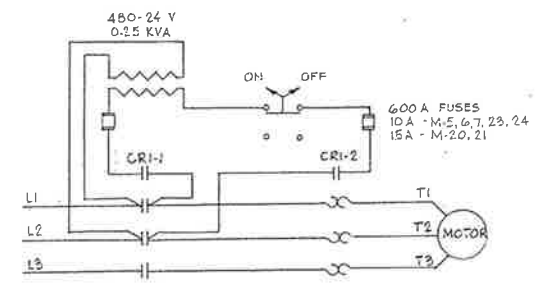
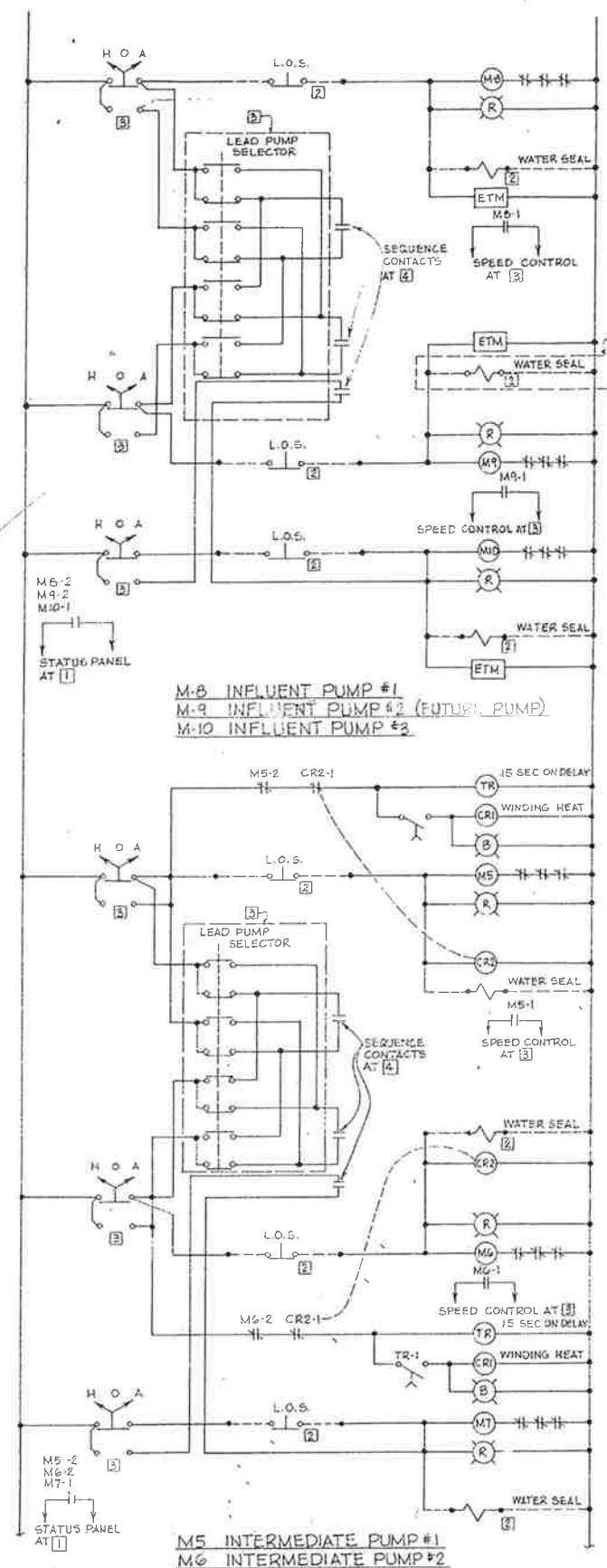
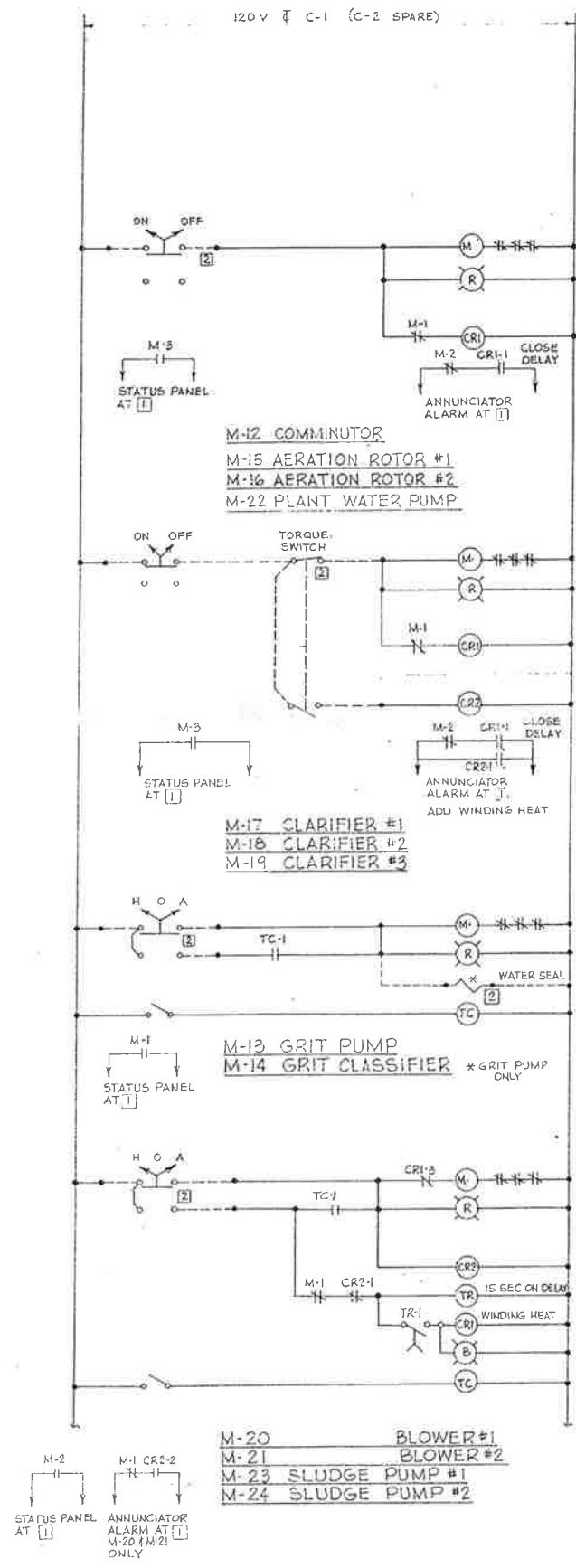
CITY OF IMPERIAL, CALIFORNIA WASTEWATER TREATMENT PLANT

DESIGNER: AWM 3/76
 DRAWN: FT 3/76
 CHECKED: AWM 3/76
 PROJECT ENG: JLB 3/76
 DATE: 3/76

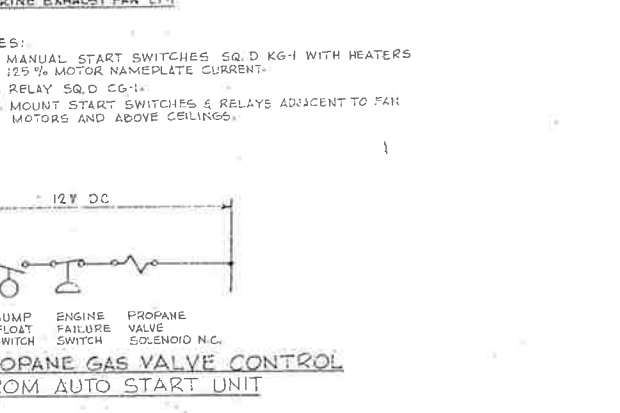
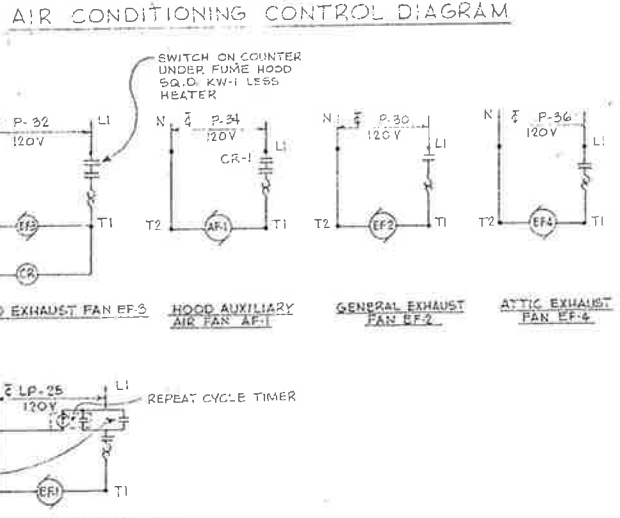
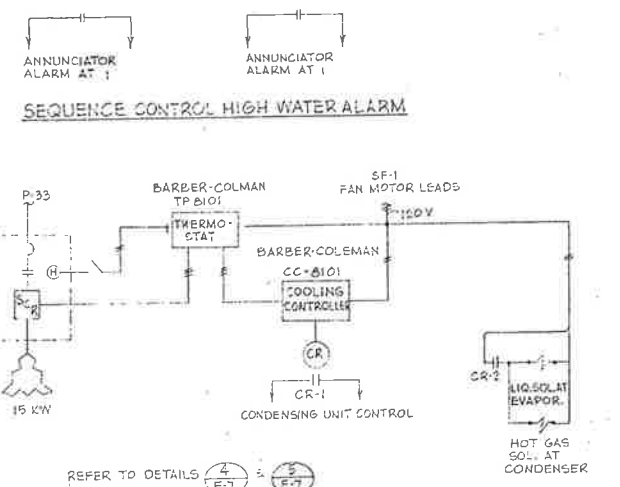
WILSEY & HAM

SINGLE LINE & PANEL SCHEDULES

DRWG. NO. E4 E7
 1-1892-0902-70
 SCALE: NONE
 DATE: MAR. 1976



- LOCATIONS
- 1 CONTROL BLDG.
 - 2 EQUIPMENT
 - 3 SPEED CONTROL SECTION
 - 4 SEQUENCE CONTROL SECTION
- REMOTE
--- LOCAL



CITY OF IMPERIAL, CALIFORNIA

WASTEWATER TREATMENT PLANT

BY	DATE
Design	AWM 3/76
Drawn	FT 3/76
Clk.	AWM 3/76
Chk./Const.	
Proj. Eng.	JLB 3/76
Dir. Eng.	
File No.	

WILSEY & HAM

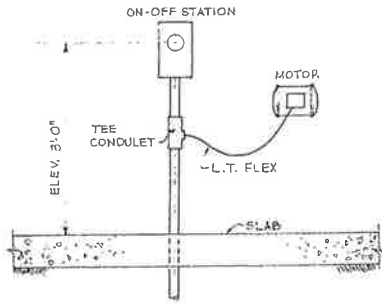
CONTROL DIAGRAMS

E5
E7

RAWG NO.
1-1892-0902-70

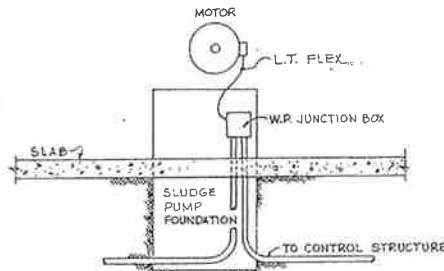
SCALE: NONE

DATE: MAR. 1976



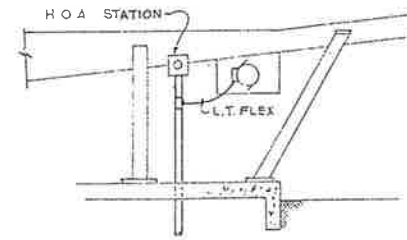
TYPICAL FOR ROTOR #1 & ROTOR #2

AERATION ROTOR CONTROL STATION 1
NO SCALE E-6

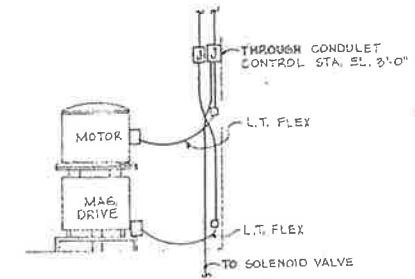


TYPICAL FOR SLUDGE PUMP #1 & #2

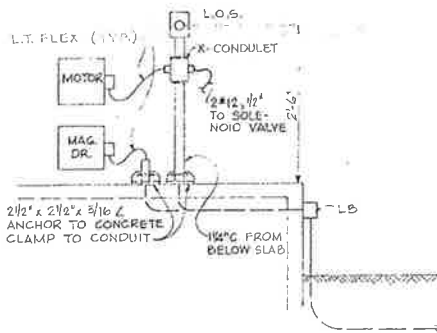
SLUDGE PUMP STATION 4
NO SCALE E-6



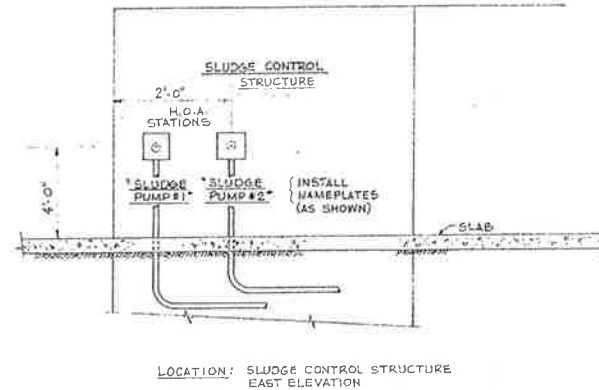
GRIT SEPARATOR MOTOR CONNECTION 7
EAST ELEVATION
NO SCALE E-6



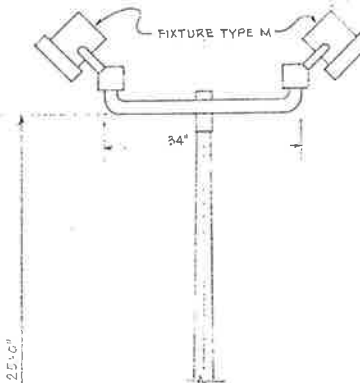
INFLUENT PUMP VARIABLE SPEED DRIVE CONNECTIONS 9
E-6



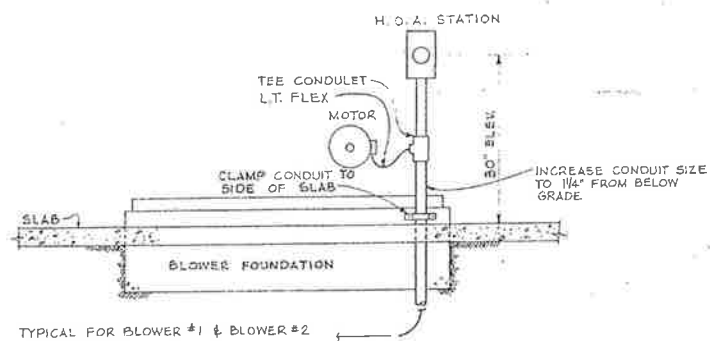
INTERMEDIATE PUMP STATION 2
E-6



SLUDGE PUMP CONTROL STATION 5
NO SCALE E-6

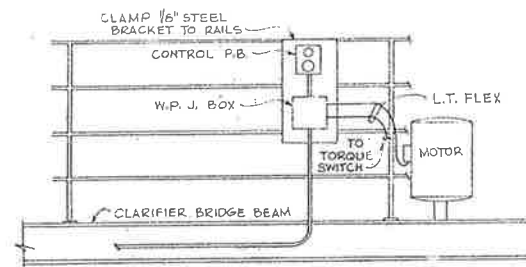


INFLUENT PUMP MOTOR CONNECTION 10
NO SCALE E-6



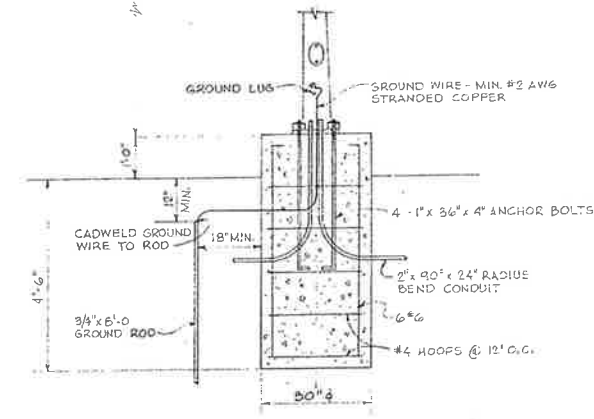
TYPICAL FOR BLOWER #1 & BLOWER #2

BLOWER STATION 3
NO SCALE E-6

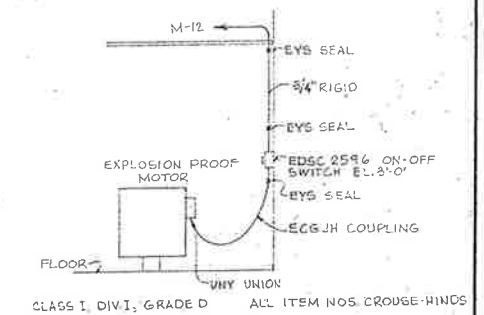


TYPICAL FOR CLARIFIERS #1, #2 & #3, SIMILAR FOR PLANT WATER PUMP

CLARIFIER STATION 6
E-6



LIGHT STANDARD & FOUNDATION DETAIL 8
NO SCALE E-6



COMMUNUTOR MOTOR CONNECTION 11
NO SCALE E-6

BY	DATE	REVISIONS

CITY OF IMPERIAL, CALIFORNIA
WASTEWATER TREATMENT PLANT

APPROVED
Michael J. ...

BY	DATE
Design	AWM 3/76
Drawn	FT 3/76
Chk.	AWM 3/76
Clk./Coord.	
Proj. Eng.	JLM 3/76
Dist. Eng.	
File No.	

WILSEY & HAM
DETAILS

E6
E7
DWG. NO.
1-1892-0902-70
SCALE: AS NOTED
DATE: MAR 1976