



GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT

TURNAGAIN INTERCEPTOR (C)
CONTRACT NO.17-PHASE 2
WPC-ALASKA-22
CAMPBELL CREEK PUMP STATION

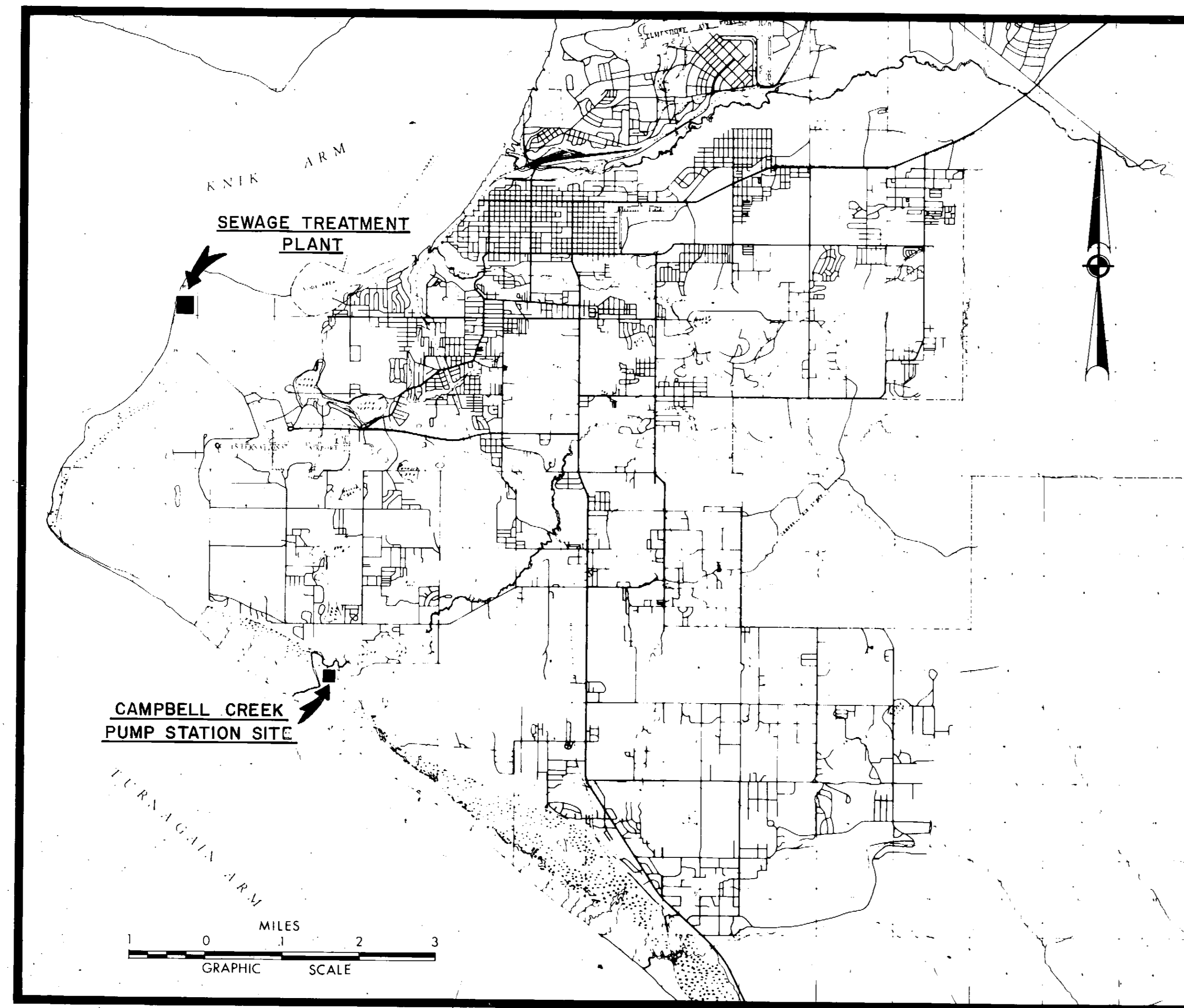
BOROUGH ENGINEERS

A JOINT VENTURE

TRYCK, NYMAN & HAYES - STEVENS, THOMPSON, RUNYAN & ASSOC.
ANCHORAGE - HONOLULU PORTLAND - SEATTLE - BOISE

APPROVED *Abney Clark*
GAAB DIRECTOR OF PUBLIC WORKS

APPROVED *Ames*
BOROUGH ENGINEERS



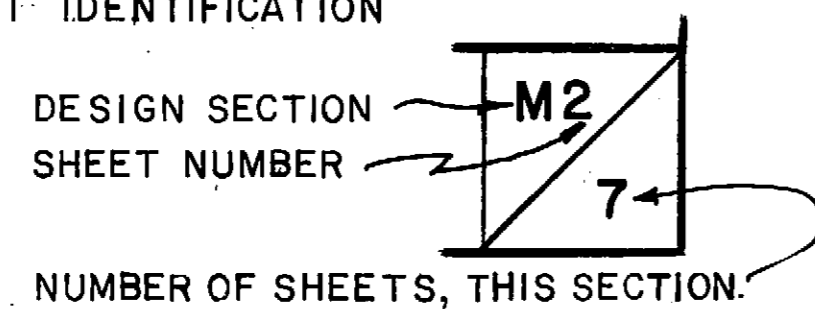
VICINITY MAP

3367

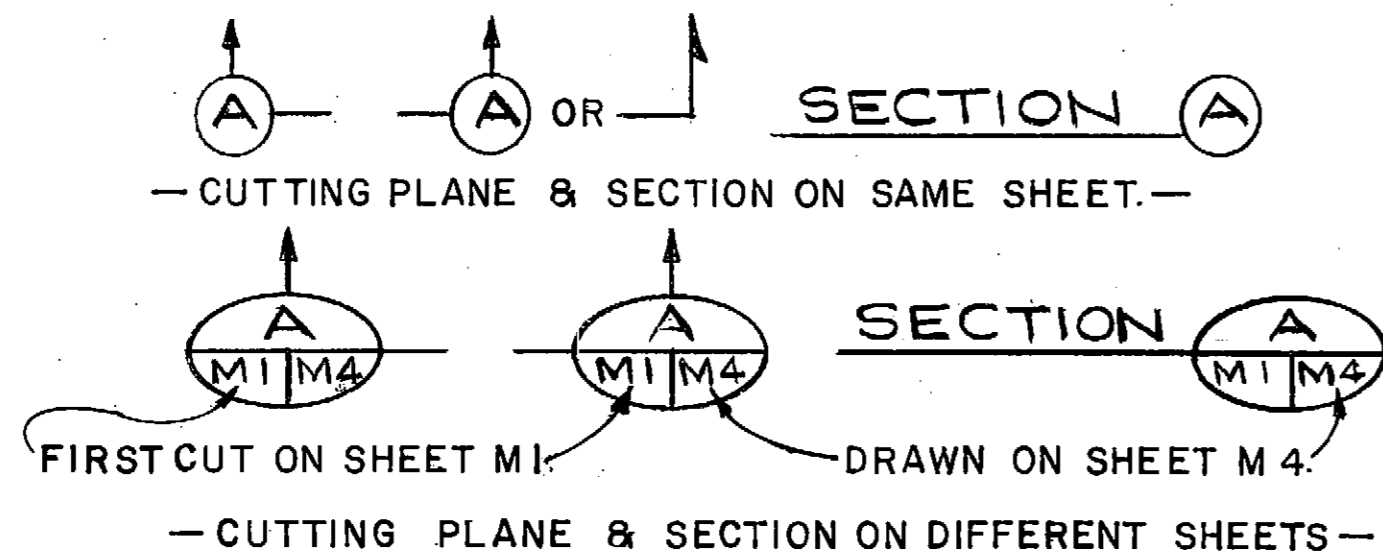
GENERAL NOTES

1. DRAWINGS ARE GROUPED ACCORDING TO DESIGN SECTION, AS FOLLOWS:
 - G GENERAL AND SITE DEVELOPMENT
 - A ARCHITECTURAL
 - S STRUCTURAL
 - M MECHANICAL
 - E ELECTRICAL

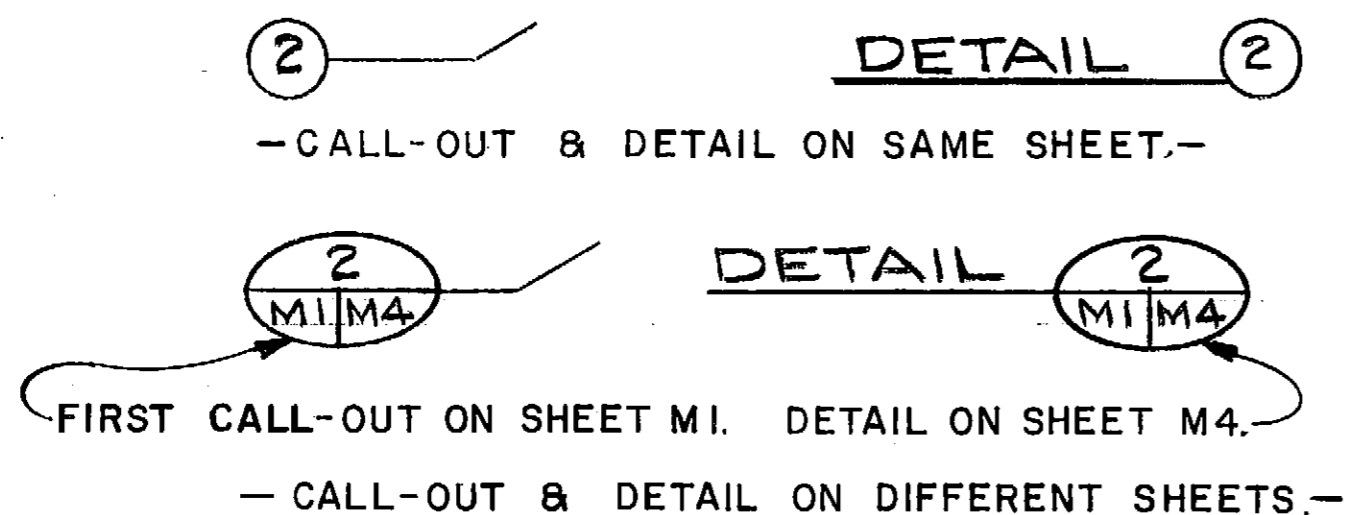
2. SHEET IDENTIFICATION



3. SECTION REFERENCE



4. DETAIL REFERENCE

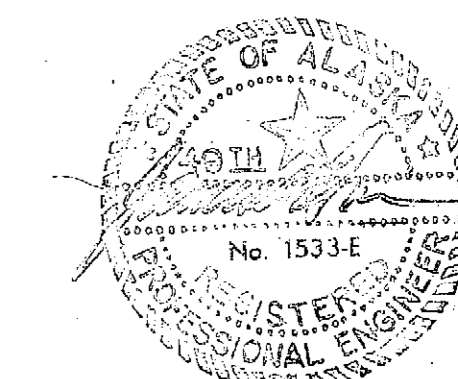


5. DATUM

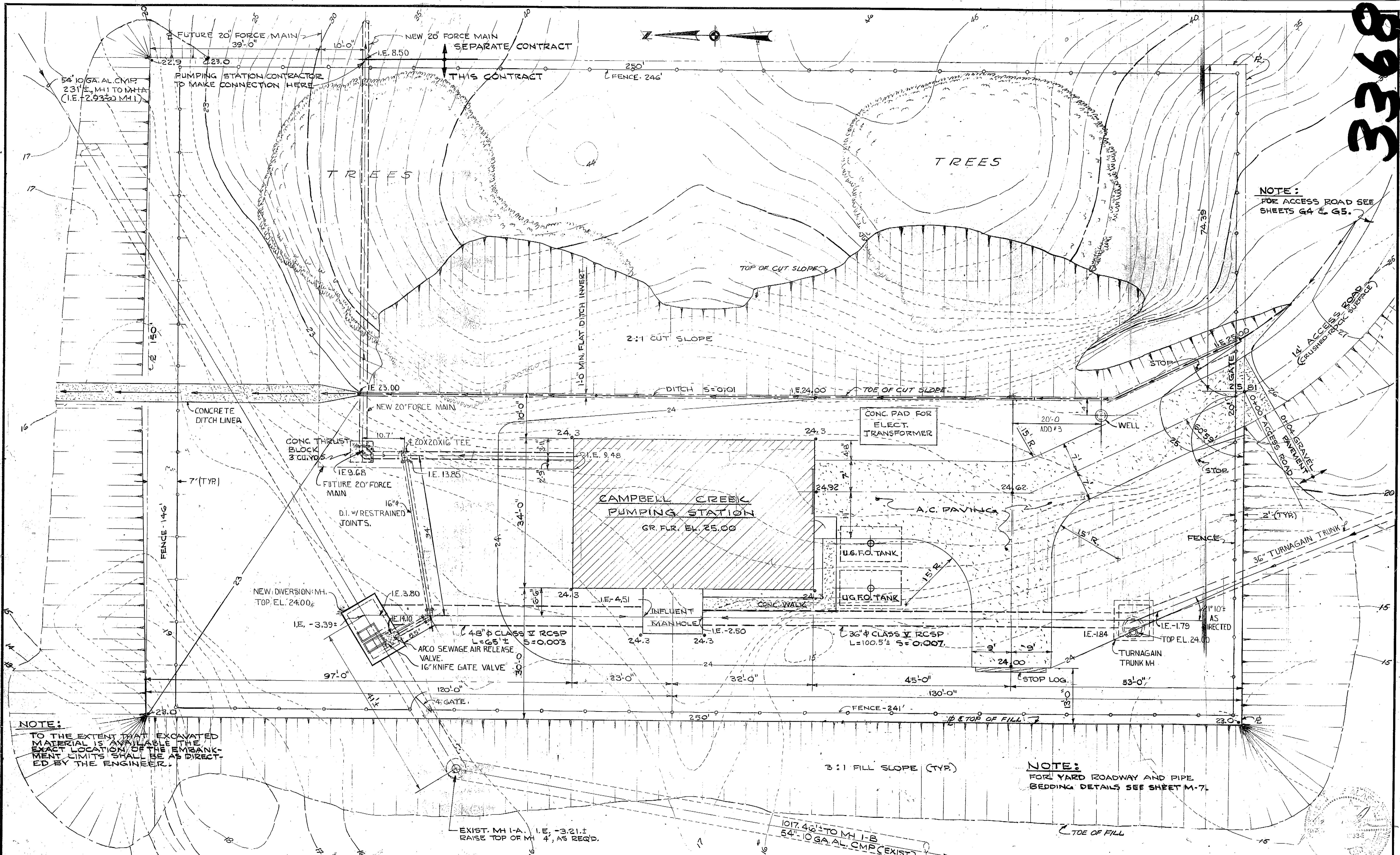
ELEVATIONS ARE BASED ON U. S. C. & G. S. DATUM.

INDEX

SHEET	TITLE	FILE NUMBER
G1	INDEX & GENERAL NOTES	70-P 680-10119
G2	SITE PLAN	-10120
G3	LANDSCAPING PLAN	-10121
G4	ACCESS ROAD- PLAN & PROFILE	-10122
G5	ACCESS ROAD-CROSS SECTIONS	-10123
A1	FLOOR PLAN	-10124
A2	ELEVATIONS	-10125
A3	SECTIONS	-10126
A4	DETAILS	-10127
S1	ROOF FRAMING PLAN & DETAILS	-10128
S2	CONTROL ROOM PLAN & DETAILS	-10129
S3	PLANS & SECTIONS	-10130
S4	SECTIONS	-10131
S5	SECTIONS	-10132
S6	SECTIONS & DETAILS	-10133
S7	MANHOLE DETAILS	-10134
M1	CONTROL ROOM PLAN	-10135
M2	MOTOR ROOM PLAN	-10136
M3	PUMP ROOM PLAN	-10137
M4	SECTIONS & DETAILS	-10138
M5	SECTIONS & DETAILS	-10139
M6	PIPING SCHEMATICS	-10140
M7	MISCELLANEOUS DETAILS	-10141
E1	ELECTRICAL PLOT PLAN	-10142
E2	ELECTRICAL POWER PLANS	-10143
E3	LIGHTING PLANS	-10144
E4	ONE LINE DIAGRAM & ELEVATIONS	-10145
E5	CONTROL SCHEMATICS	-10146
E6	CONTROL SCHEMATICS	-10147



3368



NOTE:
FOR ACCESS ROAD SEE
SHEETS G4 & G5.

NOTE:
TO THE EXTENT THAT EXCAVATED
MATERIAL IS AVAILABLE THE
EXACT LOCATION OF THE EMBANK-
MENT LIMITS SHALL BE AS DIRECT-
ED BY THE ENGINEER.

NOTE:
FOR YARD ROADWAY AND PIPE
BEDDING DETAILS SEE SHEET M-7L

DESIGNED	LKA	APPROVED	[Signature]
DRAWN	MOS	SCALE	1" = 10'
CHECKED	HWT	DATE	APR, 1972
FILE	70-P-680-10120		

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

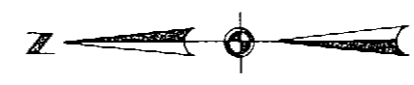


GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
SITE PLAN

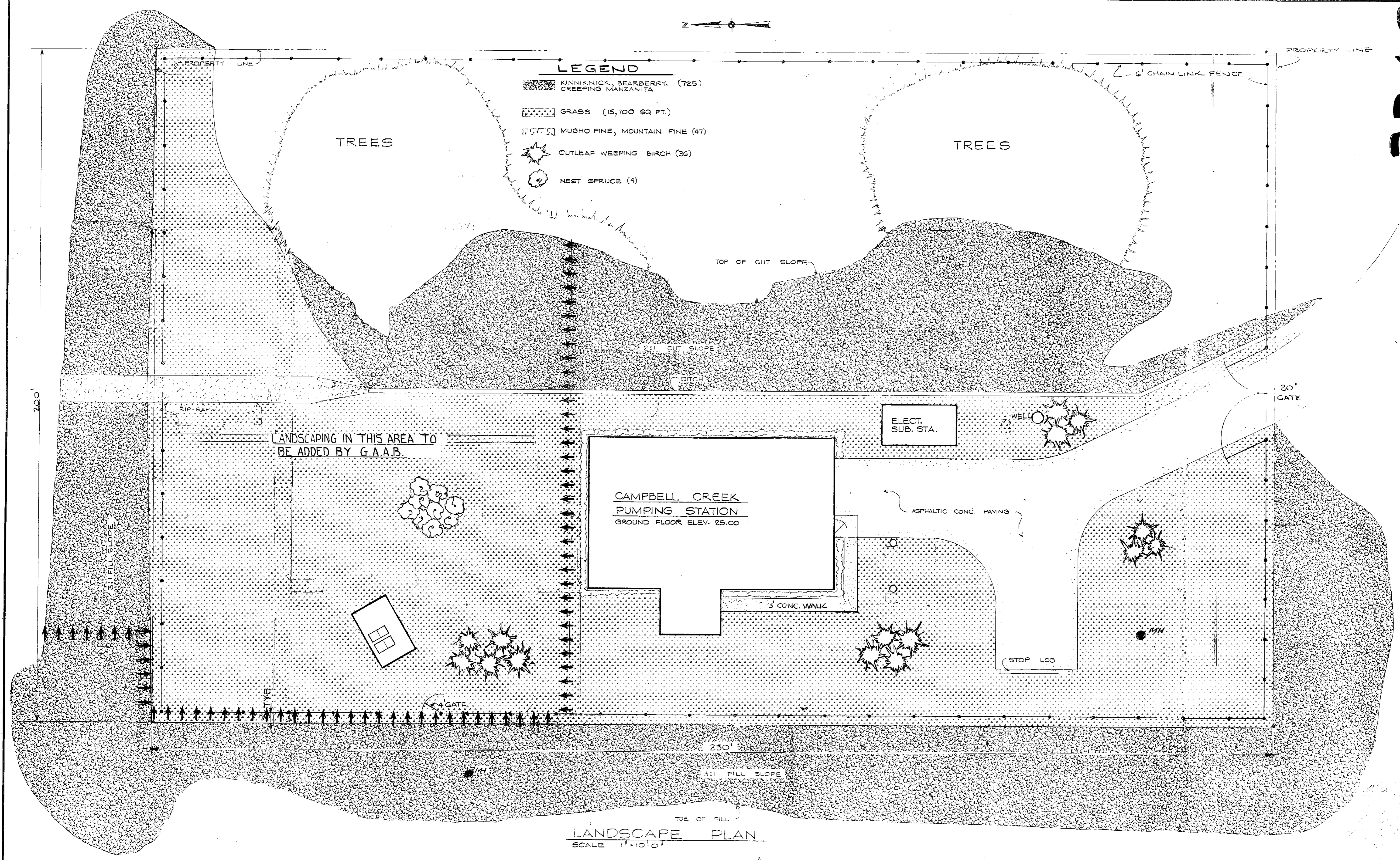
SHEET
2
5

3369



LEGEND

- KINNIKICK, BEARBERRY, CREEPING MANZANITA (725)
- GRASS (15,700 SQ. FT.)
- MUGHO PINE, MOUNTAIN PINE (47)
- CUTLEAF WEEPING BIRCH (36)
- NEST SPRUCE (9)



LANDSCAPE PLAN
SCALE 1"=10'-0"

DESIGNED LICA	APPROVED <i>[Signature]</i>
DRAWN R.L.H. MOS	SCALE 1"=10' DATE APR, 1972
CHECKED HWT	FILE 70-P680-10121

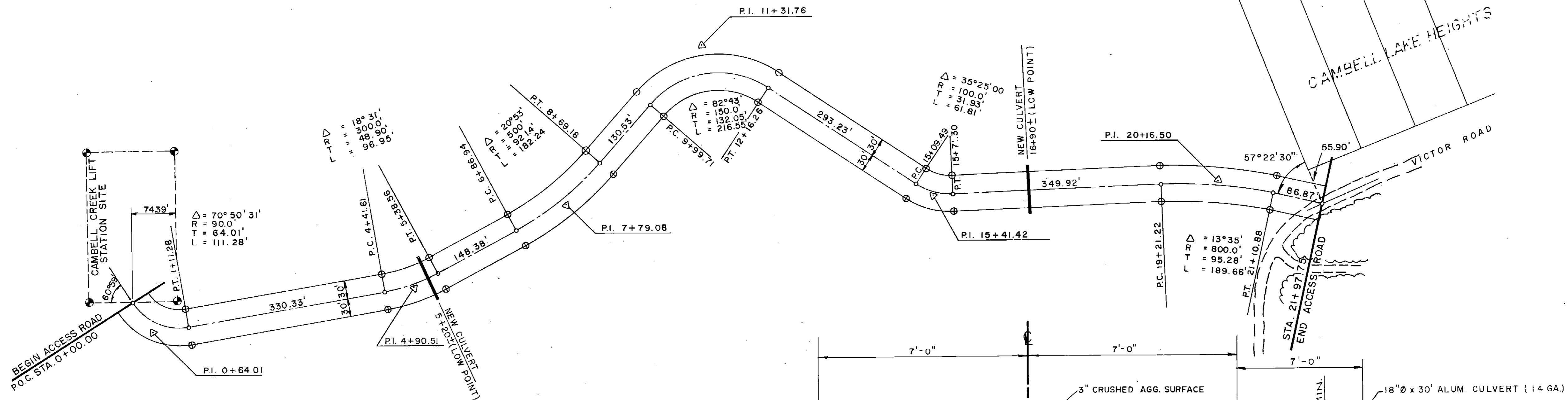
BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



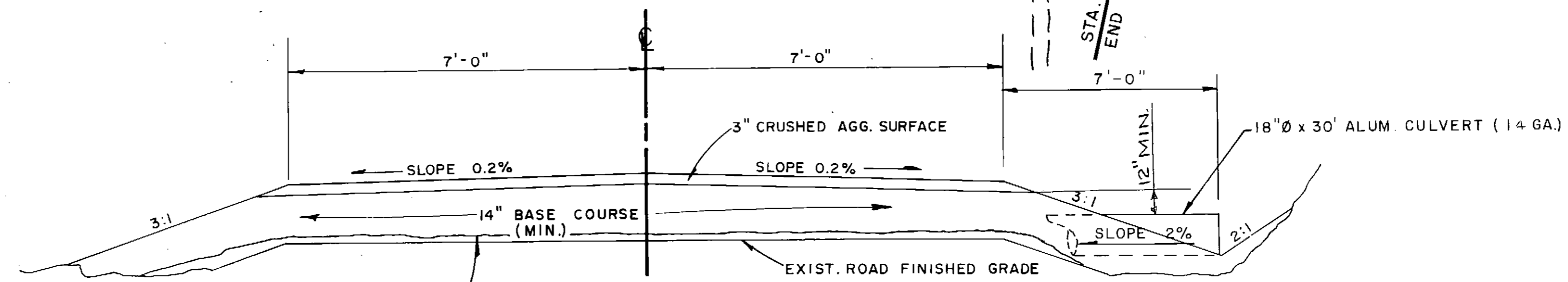
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
LANDSCAPING PLAN

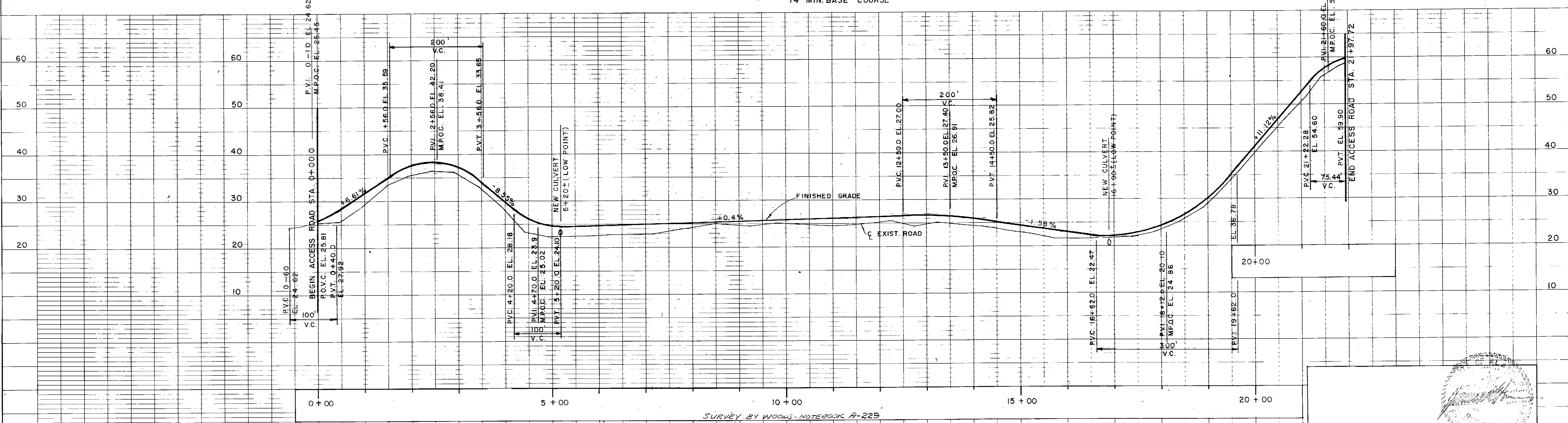
SHEET
G3
5



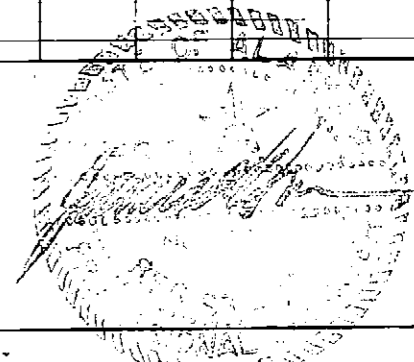
LEGEND:
 ● EXISTING MONUMENT



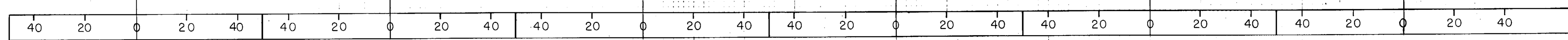
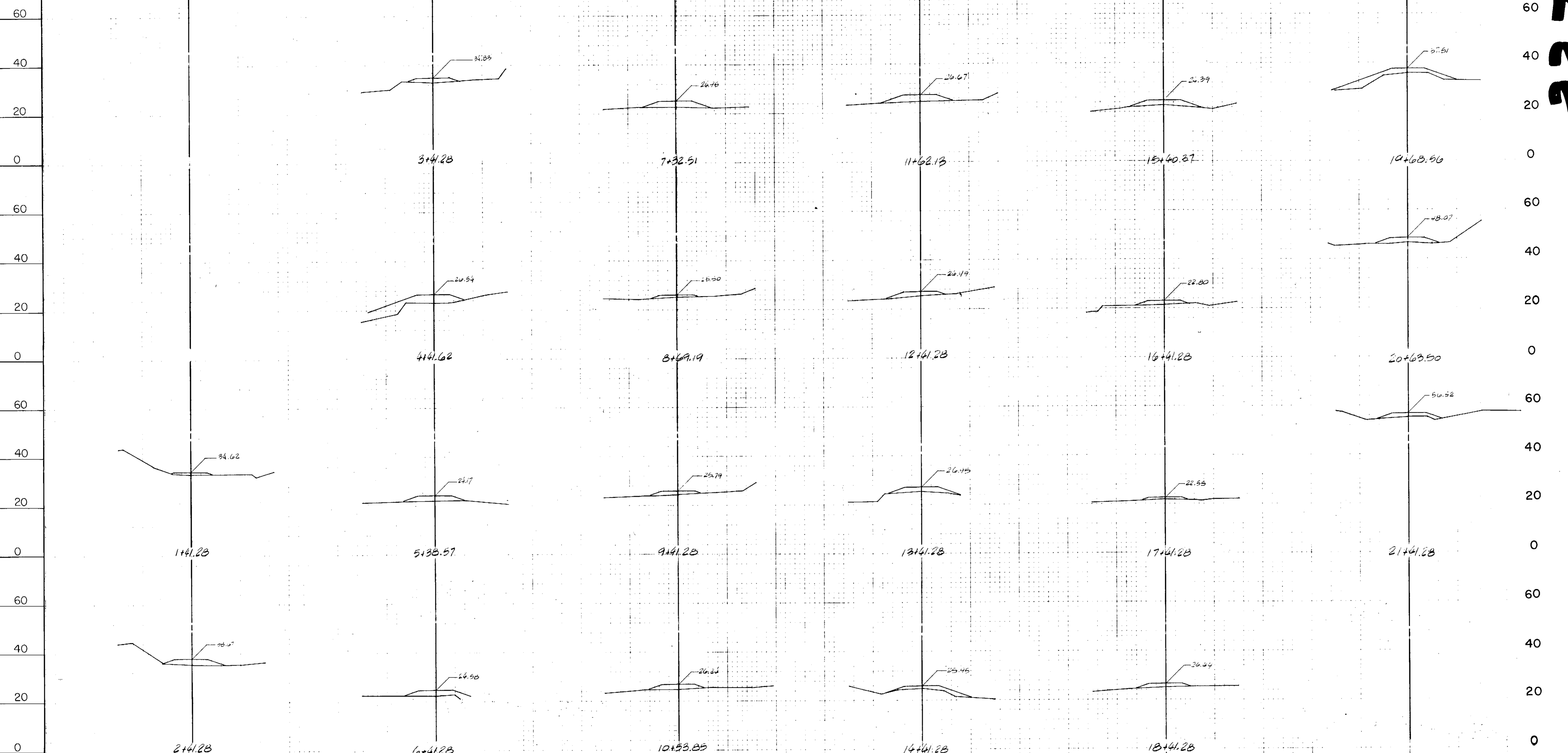
NOTE: EXCAVATE EXISTING ROAD BED AS REQUIRED TO ESTABLISH 14\"/>



SURVEY BY WOODS - NOTEBOOK A-229



3371



7-29-71 / 1
 DATE NO. REVISION
 DESIGN: J. FAUSSETT APPROVED: *[Signature]*
 DRAWN: D. CHILDS
 CHECKED: J.I.F. FILE: 70-P680-10123
 SCALE: 1" = 20' DATE: APR, 1972

BOROUGH ENGINEERS
 A JOINT VENTURE
 TRYCK NYMAN & HAYES AND STEVENS, THOMPSON RUNYAN & ASSOCIATES

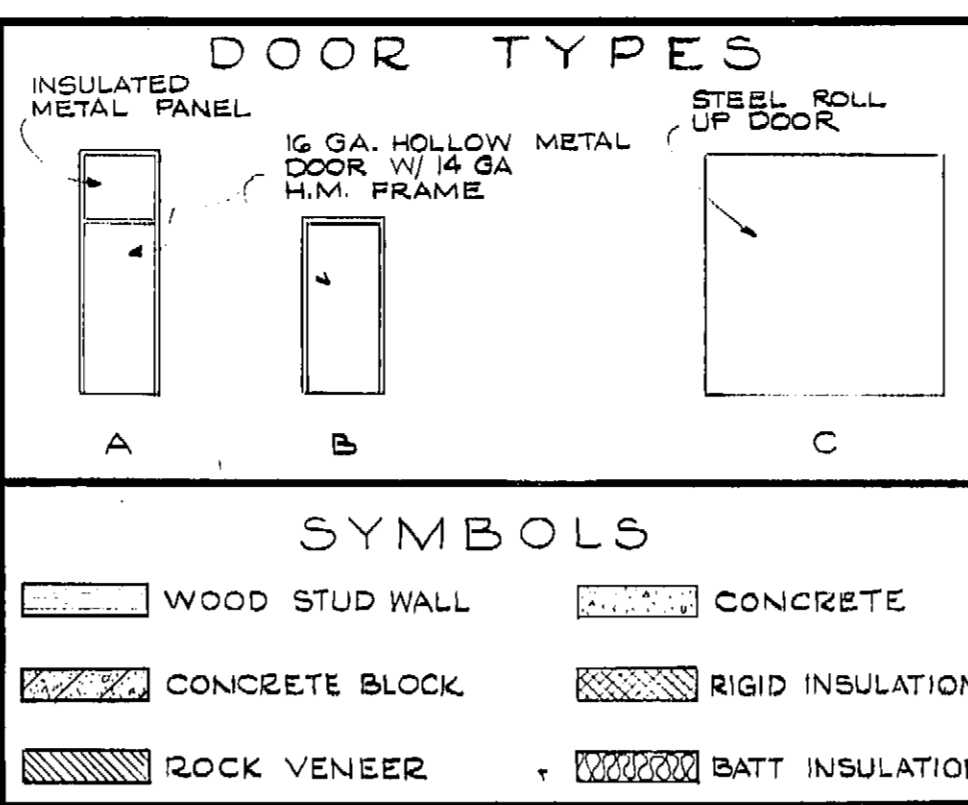


GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
ACCESS ROAD - CROSS SECTIONS

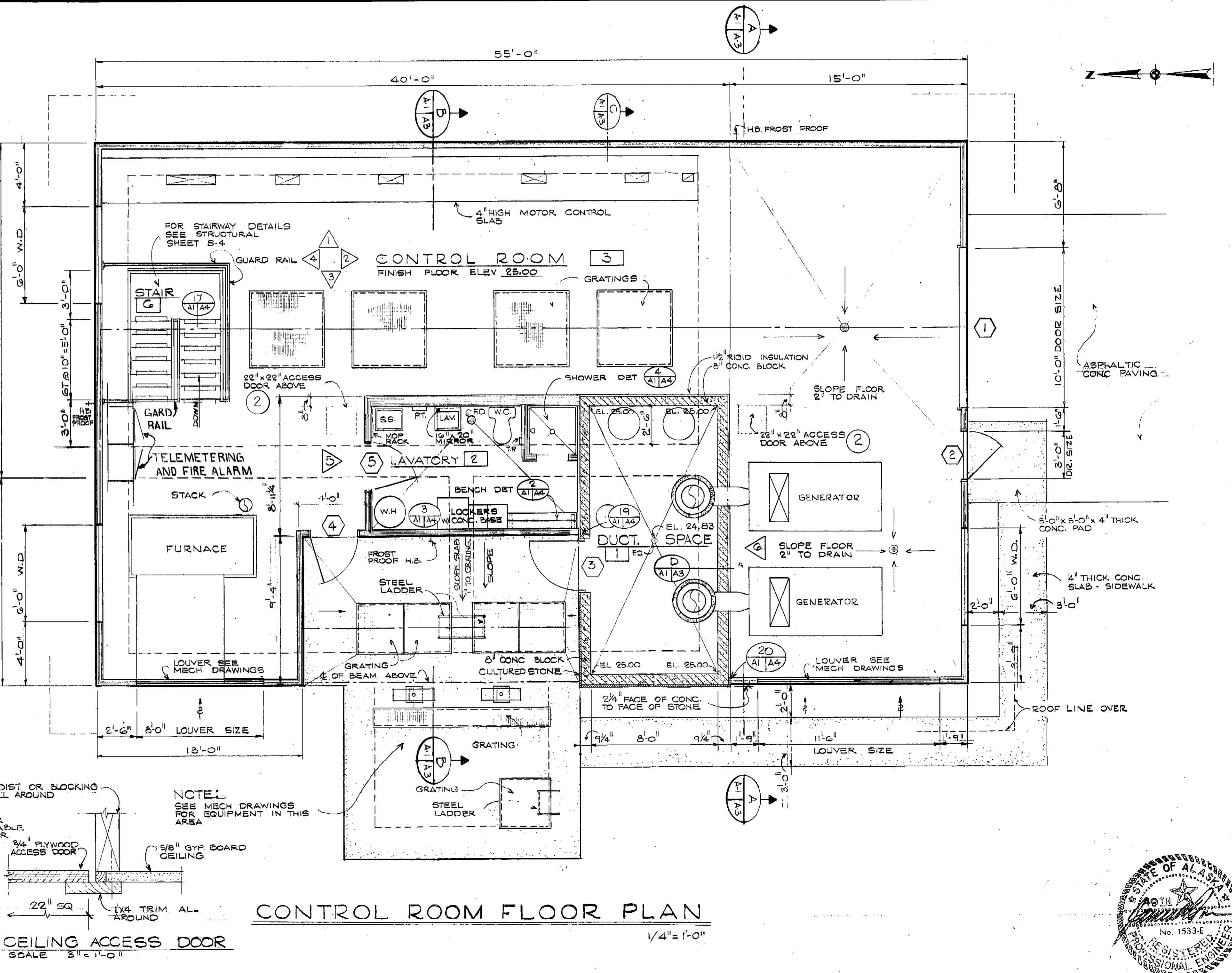
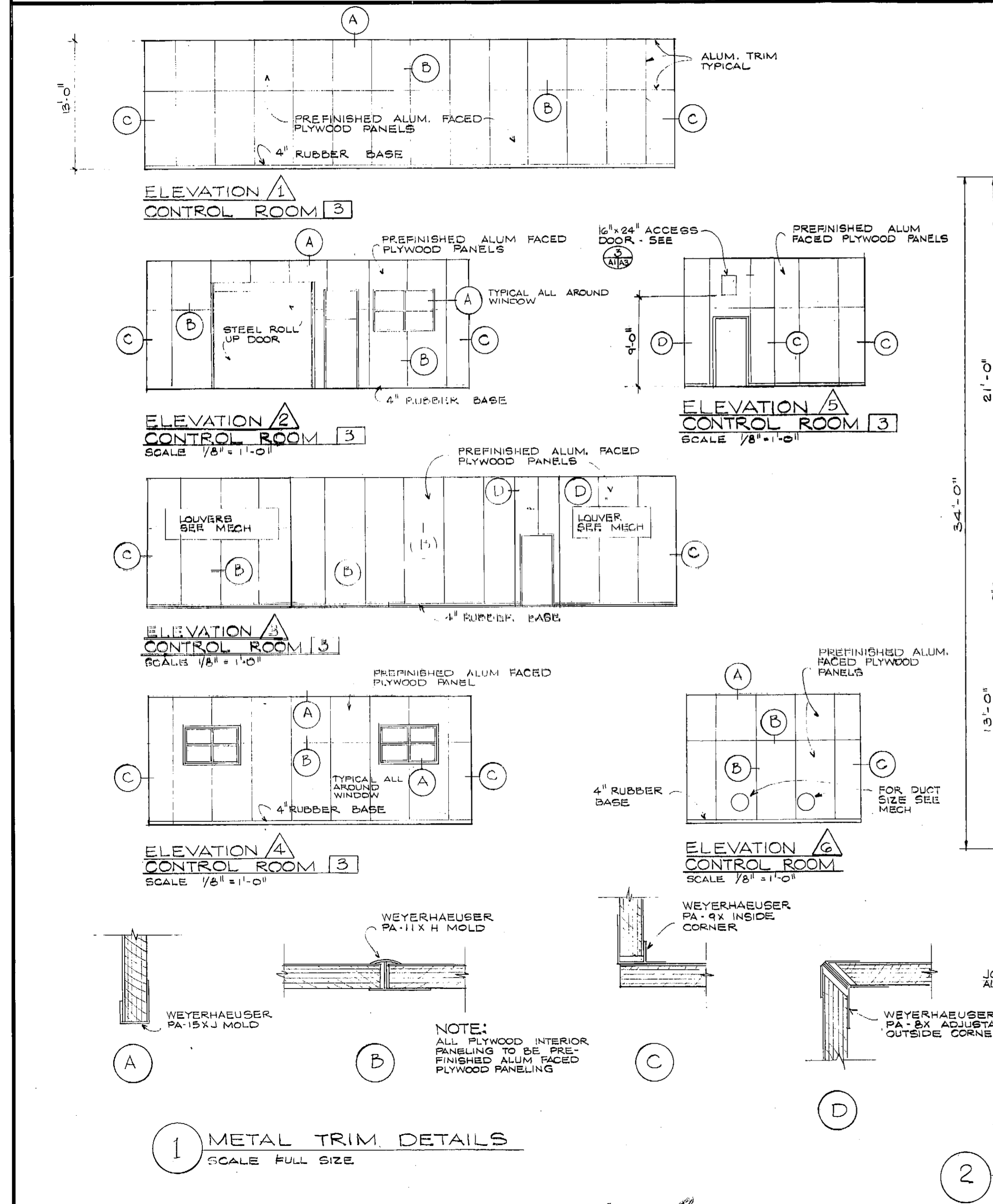
SHEET
G5
5

ROOM FINISH SCHEDULE									
RM. NO.	TITLE	FLOOR			WALLS		CEILING		REMARKS
		MATERIAL	FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH HEIGHT	
1	DUCT SPACE	CONC.	HARDNER SEALER		CONC. BLOCK.	FILL SEAL & PAINT			
2	LAVATORY	CONC.	HARDNER SEALER	4" RUBBER	5/8" GYP. BOARD W/ THIN COAT PLASTER	PAINT	5/8" WP GYP. BD.	PAINT	5/8" WATERPROOF GYP. BD IN SHOWER ENCLOSURE
3	CONTROL ROOM	CONC.	HARDNER SEALER	4" RUBBER	PREFINISHED ALUM. FACED PLYWOOD	FACTORY	5/8" GYP. BD.	PAINT	SEE SPECS FOR COLOR OF PLYWOOD PANELS
4	MOTOR ROOM	CONC.	HARDNER SEALER		CONC.	PAINT	CONC.	PAINT	
5	PUMP ROOM	CONC.	HARDNER SEALER		CONC.	PAINT	CONC.	PAINT	
6	STAIR	CONC.	HARDNER SEALER						PAINT UNDERSIDES & SIDES HANDRAILS

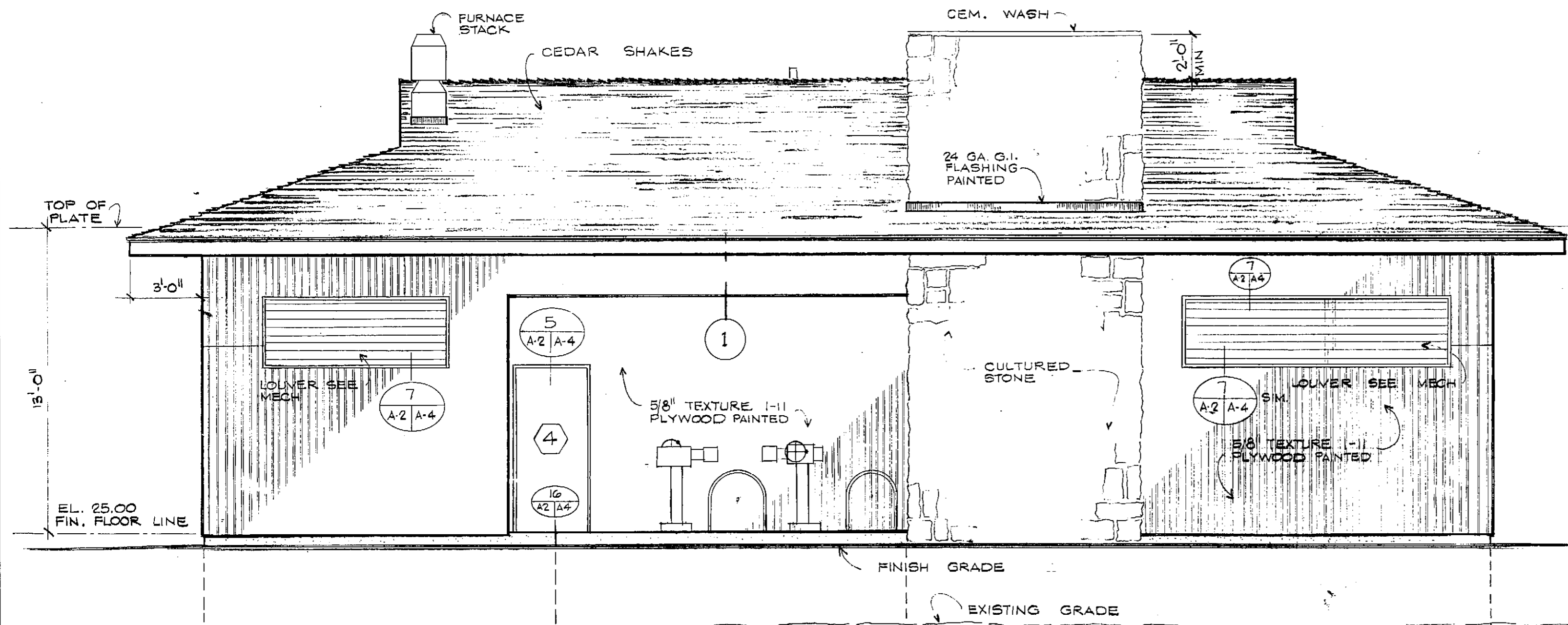


DOOR & HARDWARE SCHEDULE													
DOOR AND FRAME						H A R D W A R E						REMARKS	
NO.	SIZE	TYPE	FRAME	FINISH	DETAILS	BUTTS	LOCK/LATCH	CLOSER	BRACKET	STOP	THRESHOLD		BILL BEAL
1	10'-0" x 10'-0"	C	STEEL	ENAMEL	8/A 9/A4	ALL HARDWARE BY DOOR MANUFACTURER	BBB	SPECS					
2	3'-0" x 7'-0" x 1 3/4"	A	H.M.	ENAMEL	14, 15, 16/A4	1/2 PR. 2 1/2 x 4 1/2 BB 4101-A	C51PD	4015	4010-11	3/4 W/5 50	#55	#52 WS	#50 HEAD JAMB
3	3'-0" x 7'-0" x 1 3/4"	B	H.M.	ENAMEL	10, 19/A4	1/2 PR. 2 1/2 x 4 1/2 BB 4101-A	C51PD			3/4 W/5 50			
4	3'-0" x 7'-0" x 1 3/4"	B	H.M.	ENAMEL	5, 16/A4	1/2 PR. 2 1/2 x 4 1/2 BB 4101-A	C51PD	4015	4010-16	3/4 W/5 50	#55	#52 WS	#50 HEAD JAMB
5	2'-6" x 7'-0" x 1 3/4"	B	H.M.	ENAMEL	9/A4	1/2 PR. 2 1/2 x 4 1/2 BB 4101-A	D105	4013		3/4 W/5 18X			

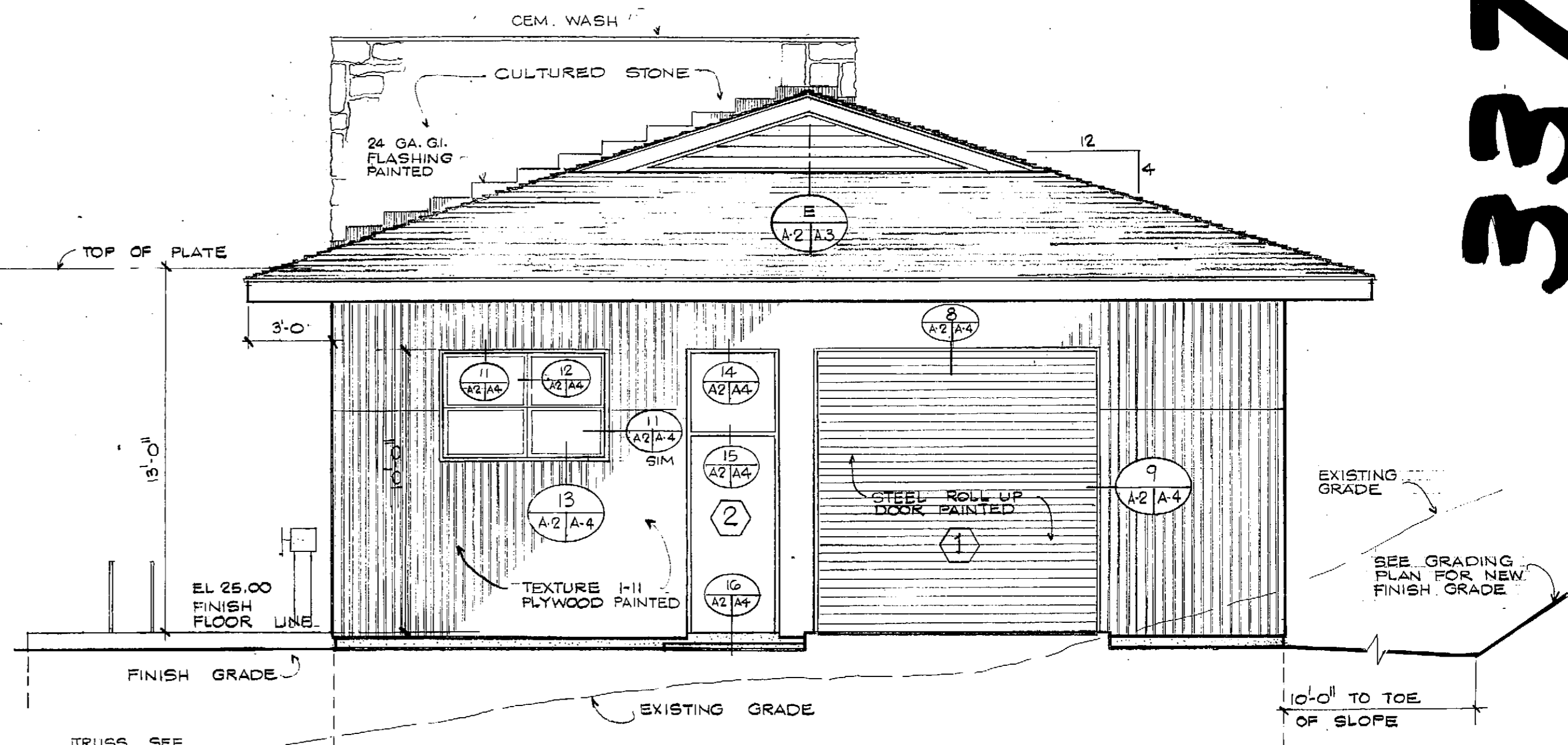
NOTE: NUMBERS LISTED IN THE HARDWARE SCHEDULE HAVE BEEN TAKEN FROM THE FOLLOWING MANUFACTURERS' CATALOGS: BUTTS... LAWRENCE; LOCK/LATCH... SCHLAGE; CLOSER/BRACKET... LCN; THRESHOLD/WEATHERSTRIP... ZERO; STOP... GLYNN-JOHNSON. LOCK/LATCH DESIGN SHALL BE TULIP. ALL HARDWARE SHALL BE US 2GD FINISH UNLESS OTHERWISE NOTED.



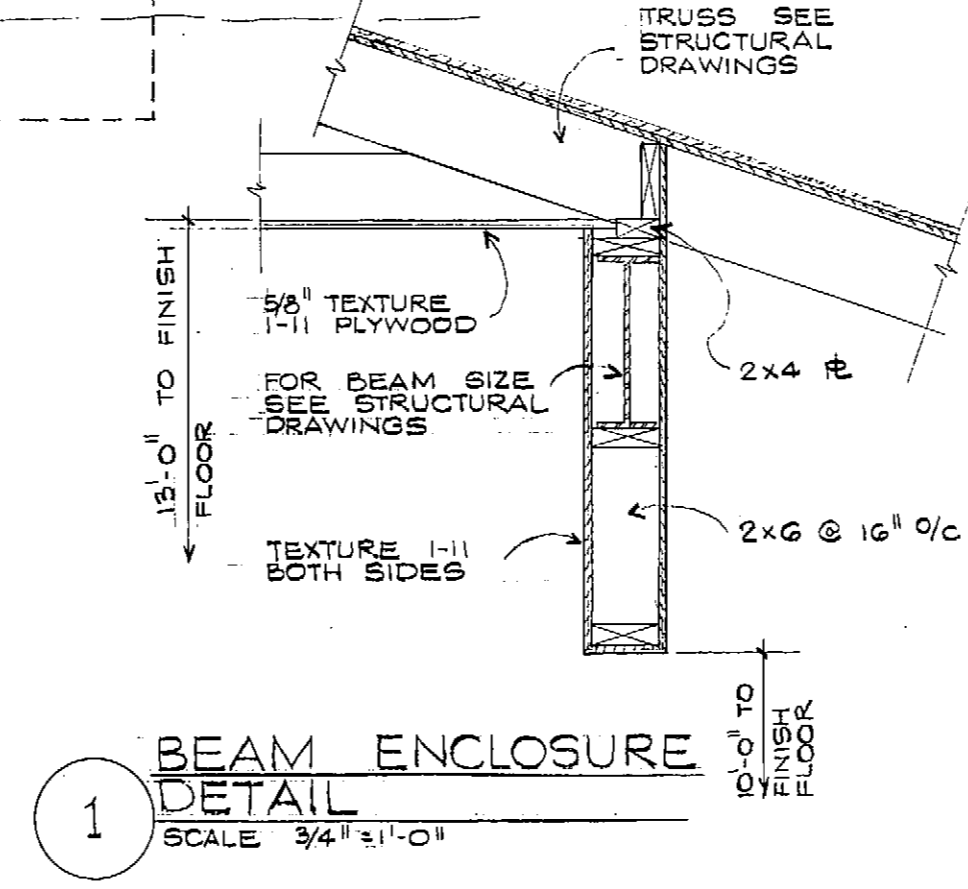
3373



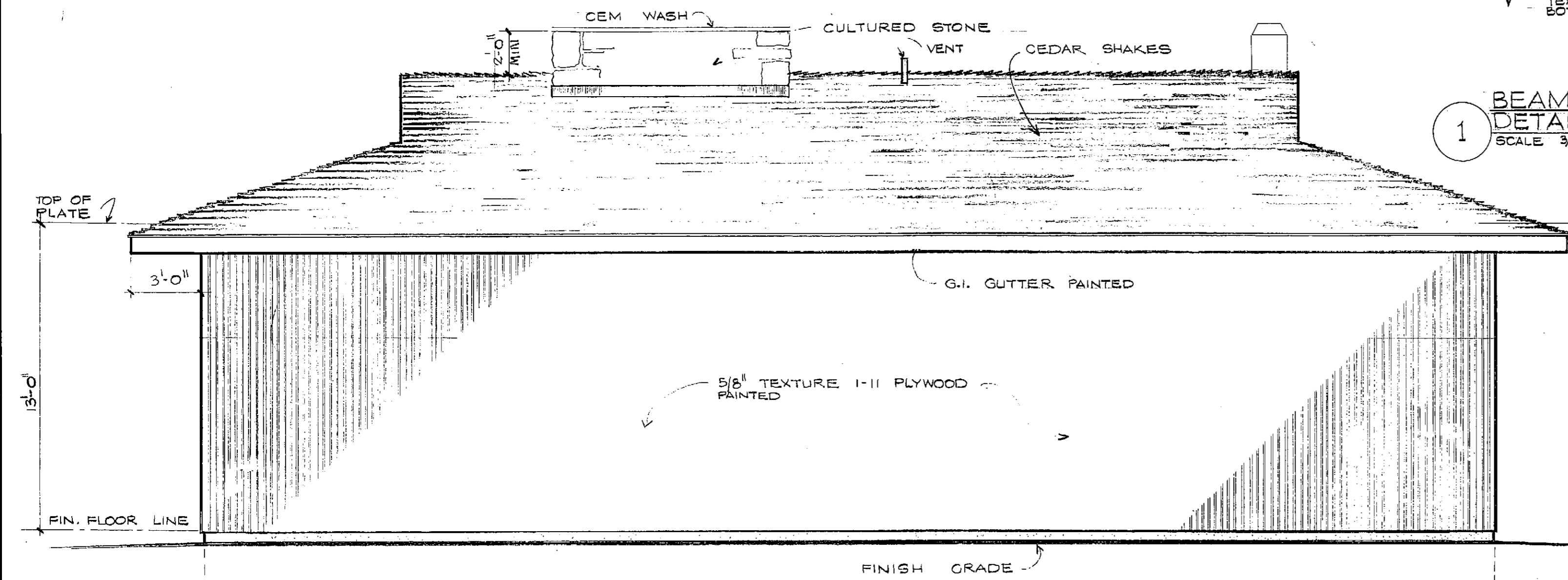
WEST ELEVATION
1/4" = 1'-0"



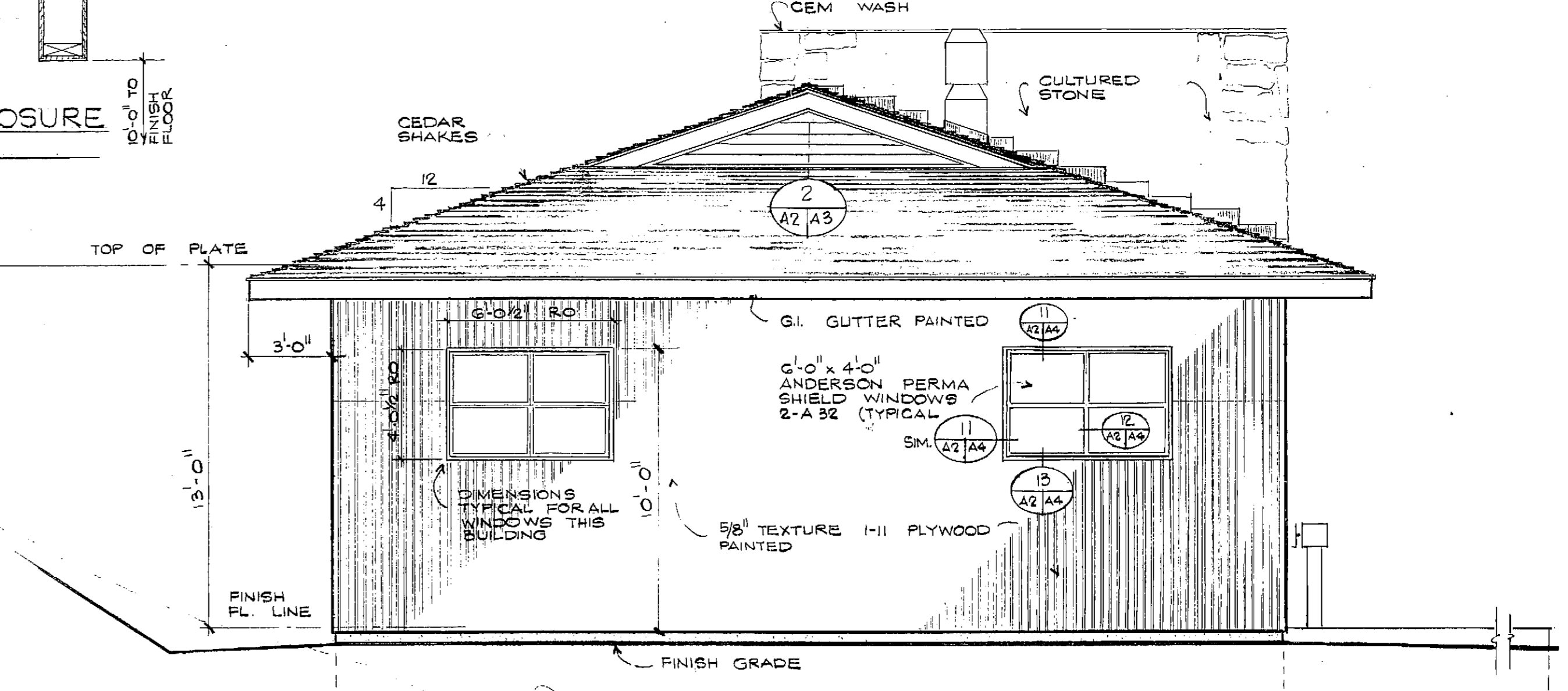
SOUTH ELEVATION
1/4" = 1'-0"



1 BEAM ENCLOSURE DETAIL
SCALE 3/4" = 1'-0"



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



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

DESIGNED GHW	APPROVED <i>[Signature]</i>
DRAWN GHW	SCALE AS SHOWN DATE APR, 1972
CHECKED GHW	FILE 70-P680-10125

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



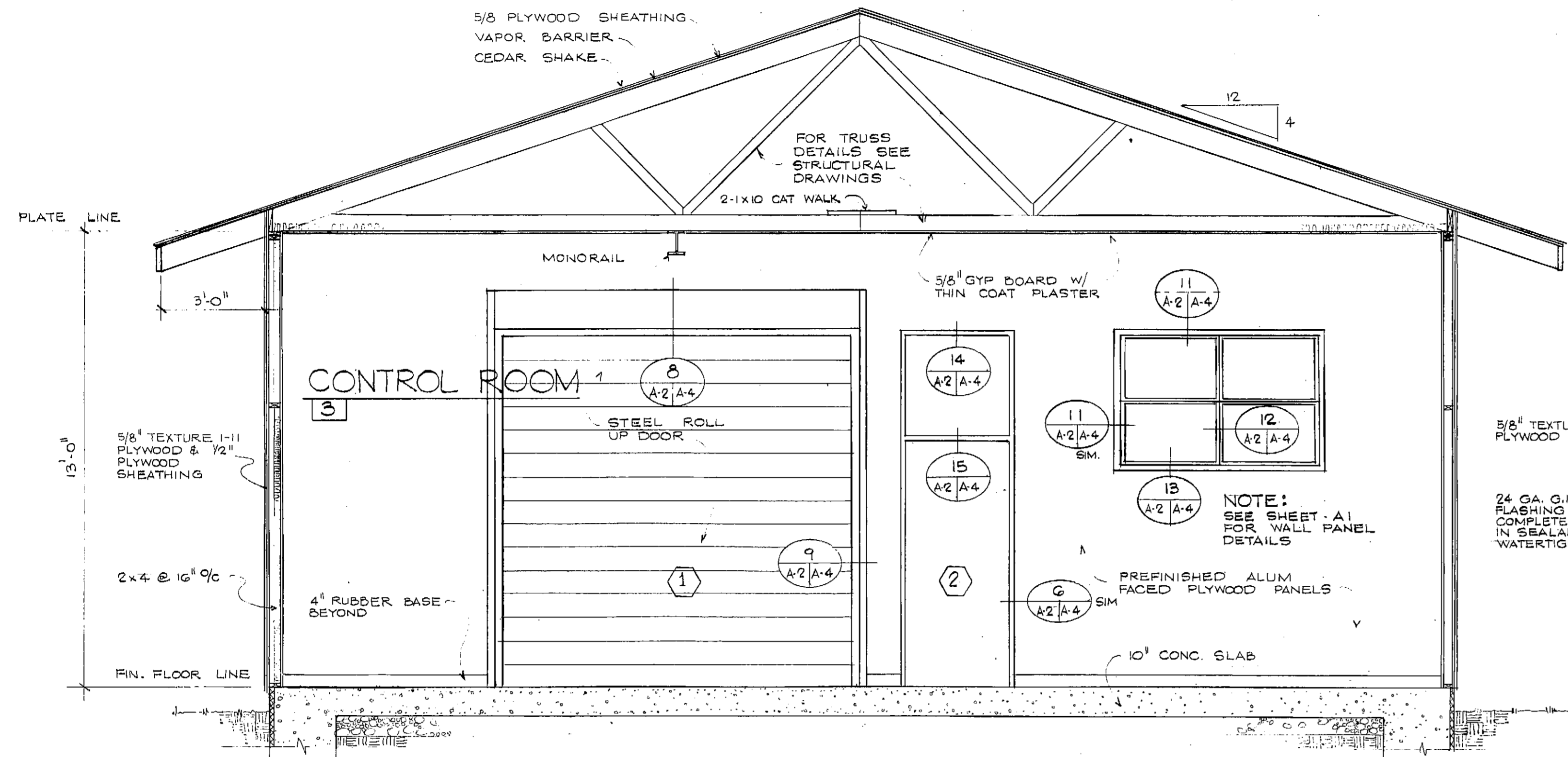
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
ELEVATIONS

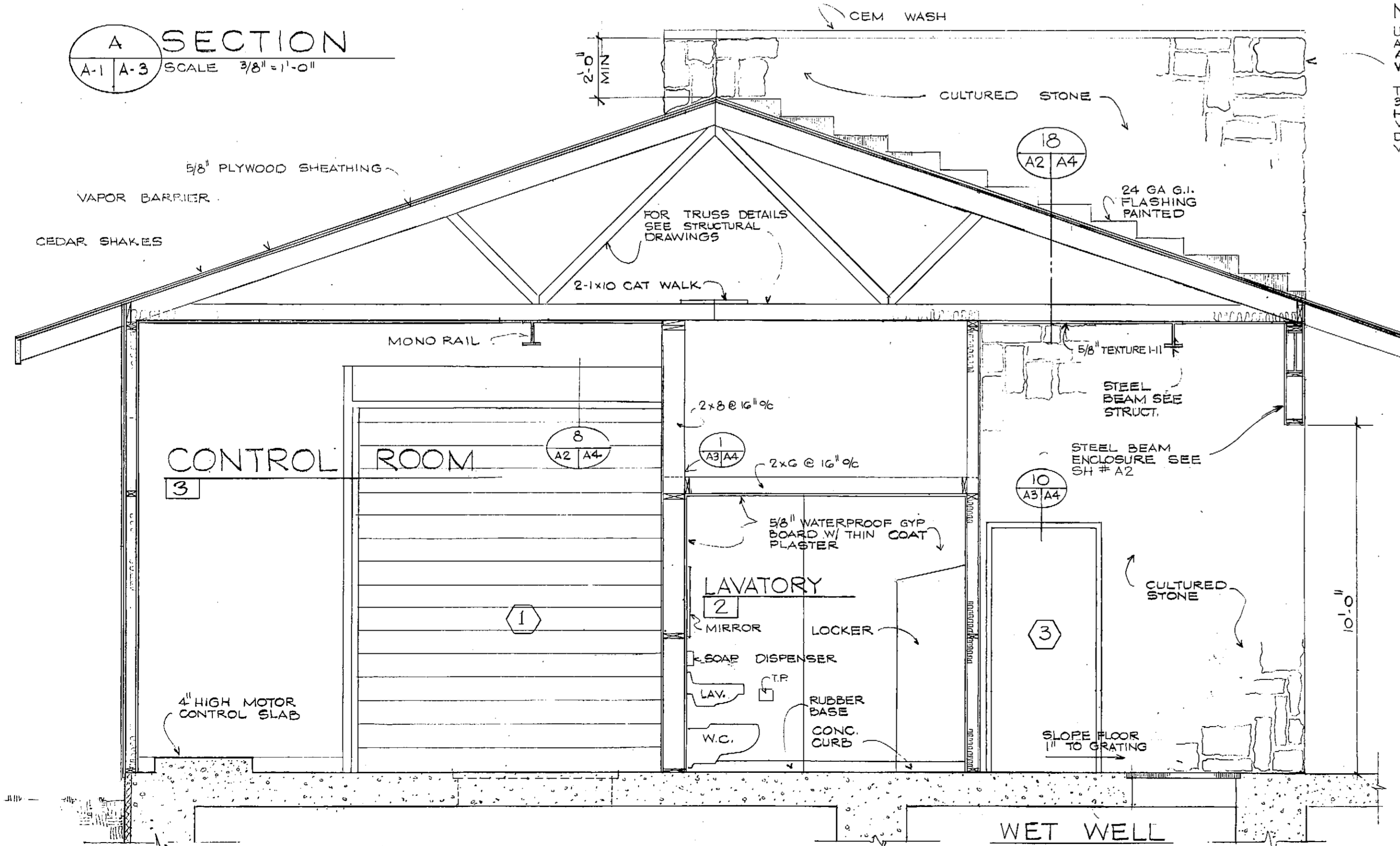


SHEET
A2
4

3374



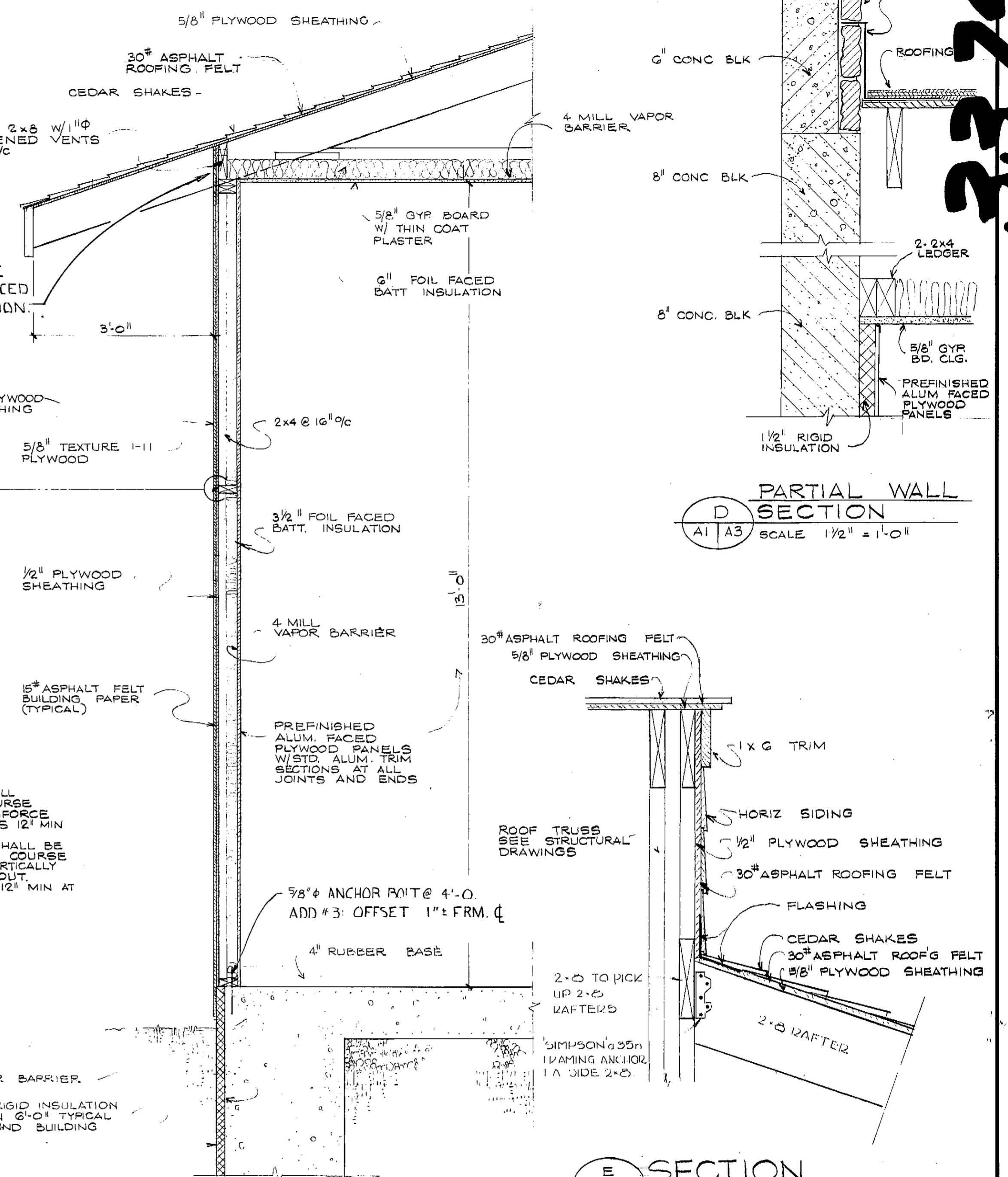
A SECTION
A-1 | A-3
SCALE 3/8" = 1'-0"



NOTE:
USE CONTINUOUS BOND BEAM ALL AROUND PIPE SPACE AT TOP COURSE AND FILL SOLID W/ GROUT REINFORCE W/ 2# 5 BARS LAPPING CORNERS 12" MIN
TYPICAL BLOCK REINFORCING SHALL BE 3/16" K-WEB EVERY ALTERNATE COURSE HORIZONTAL, & #4 @ 32" O.C. VERTICALLY W/ CELLS FILLED SOLID W/ GROUT. DOWEL UP FROM FLOOR SLAB 12" MIN AT VERTICAL REIN.

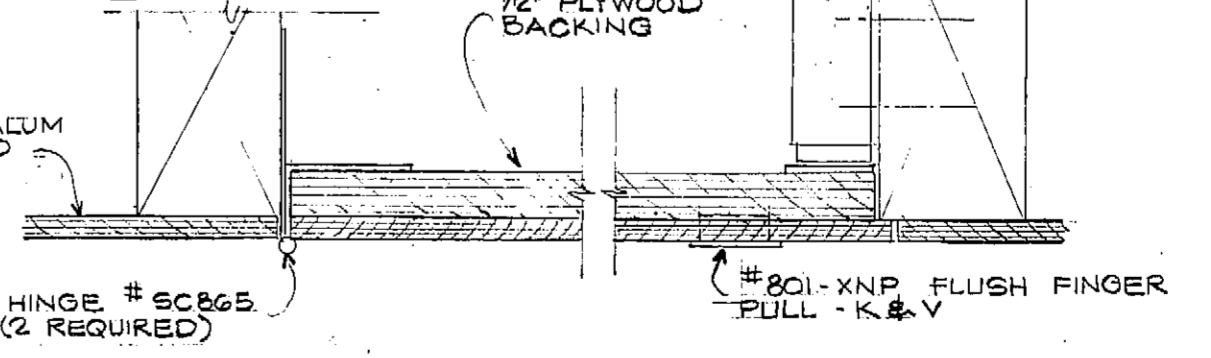
B SECTION
SCALE 3/8" = 1'-0" A-1 | A-3

SECTION B
SCALE 3/8" = 1'-0" A-1 | A-3
CHEST HINGE # SC865 K & V - (2 REQUIRED)



D PARTIAL WALL SECTION
A1 | A3
SCALE 1/2" = 1'-0"

C WALL SECTION
A1 | A-3
SCALE 3/4" = 1'-0"



3 ACCESS DOOR DETAIL
SCALE HALF SIZE
SEE ELEV. A SHEET A-1



DESIGNED G.H.W.	APPROVED <i>[Signature]</i>
DRAWN R.L.H.	SCALE AS SHOWN
CHECKED G.H.W.	DATE APR, 1972
FILE 70-P680-10126	

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

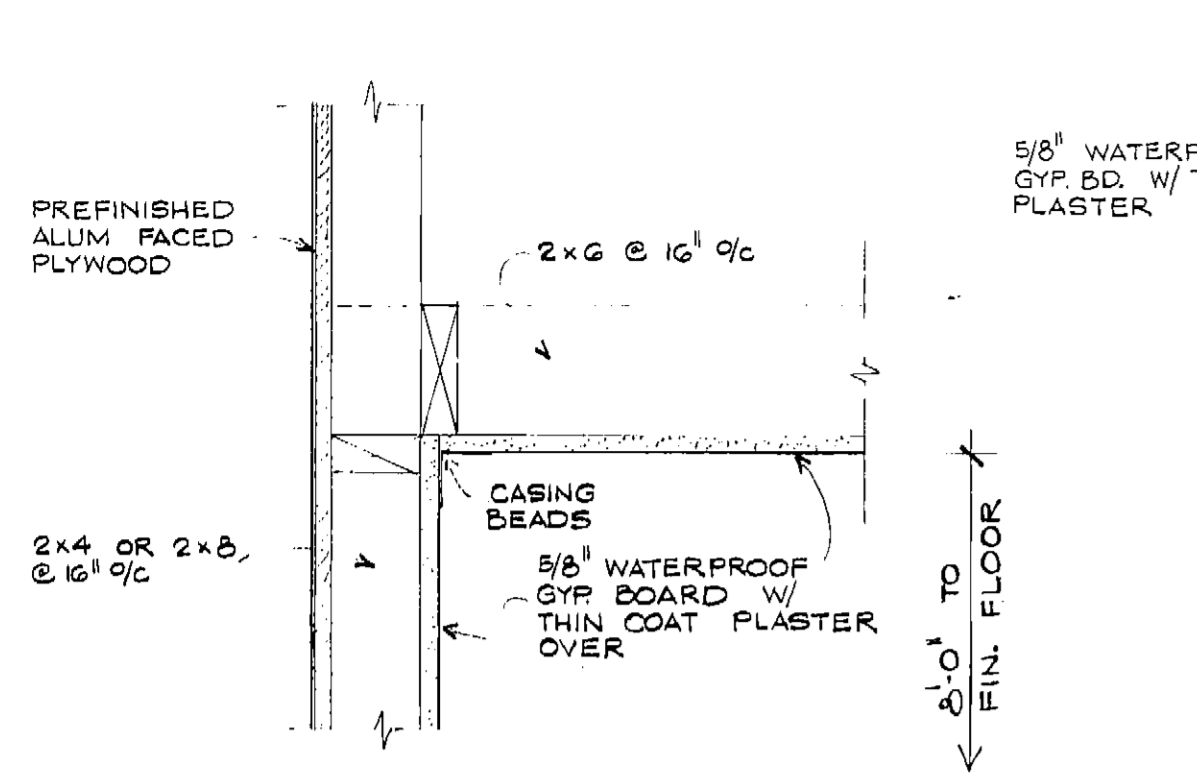


GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

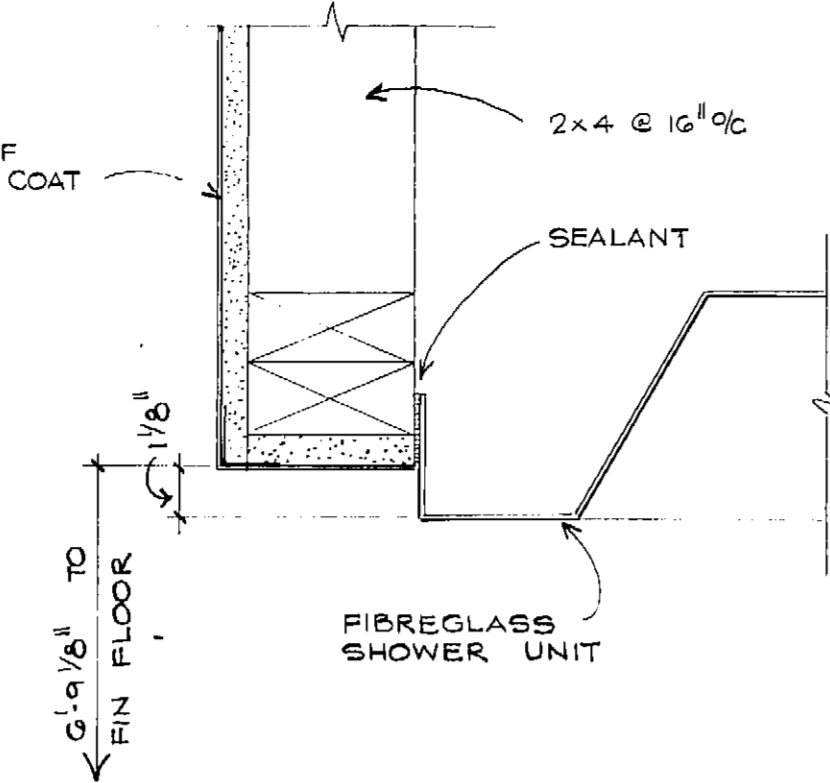
CAMPBELL CREEK PUMP STATION
SECTIONS

SHEET
A3
4

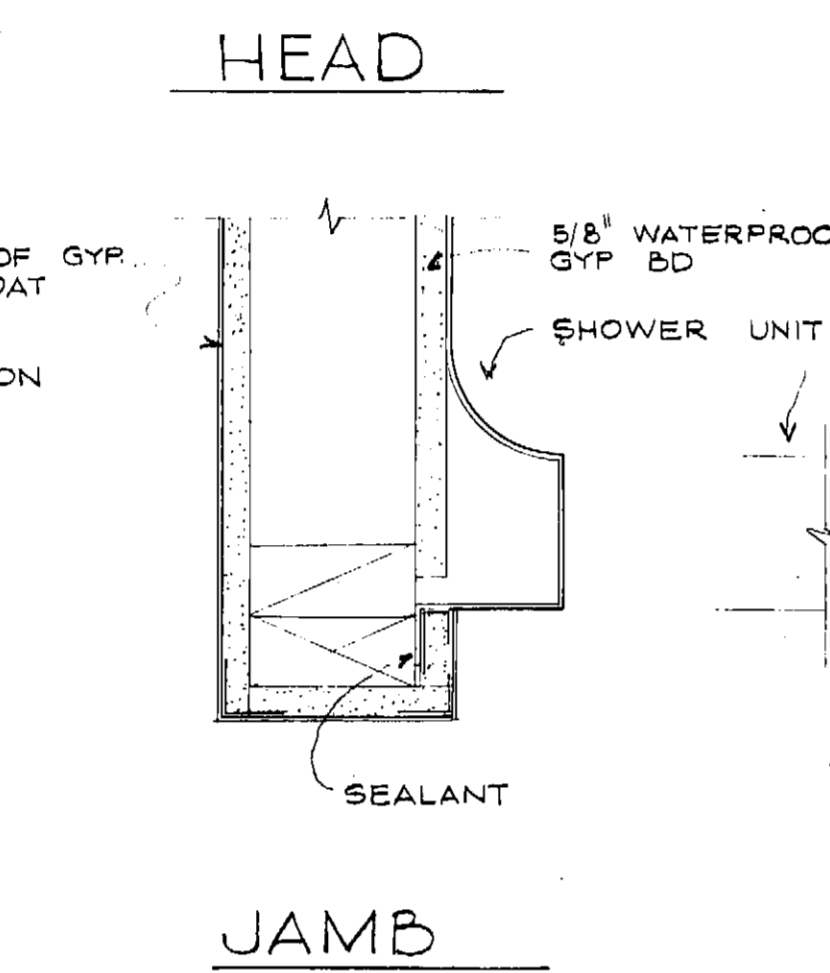
3375



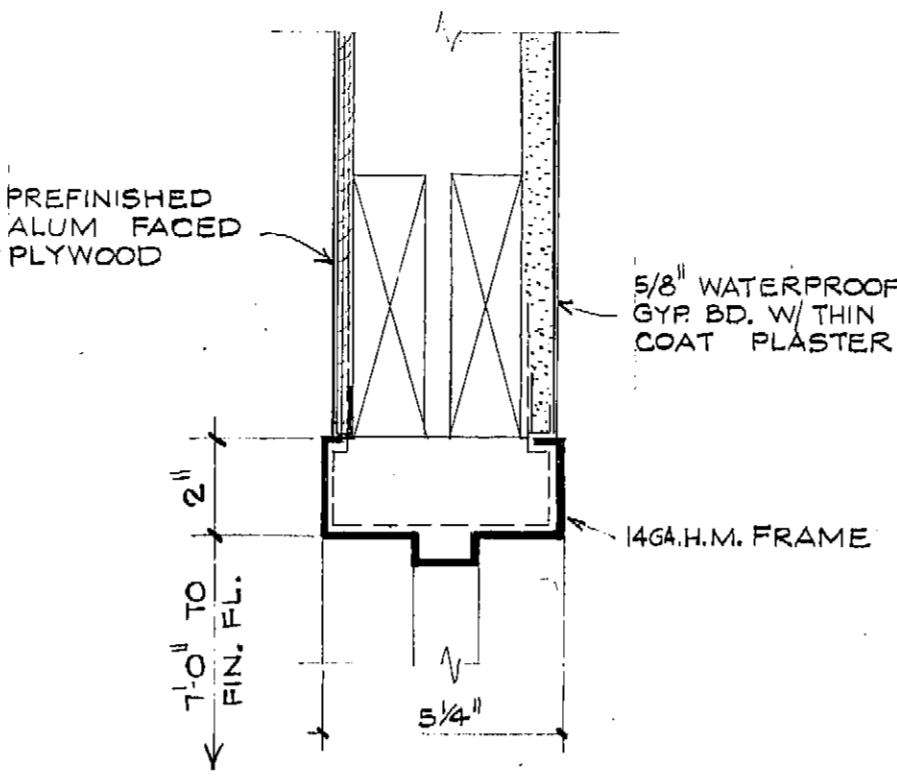
1 CEILING DET. @ RESTROOM
SCALE 1/2" = 1'-0"



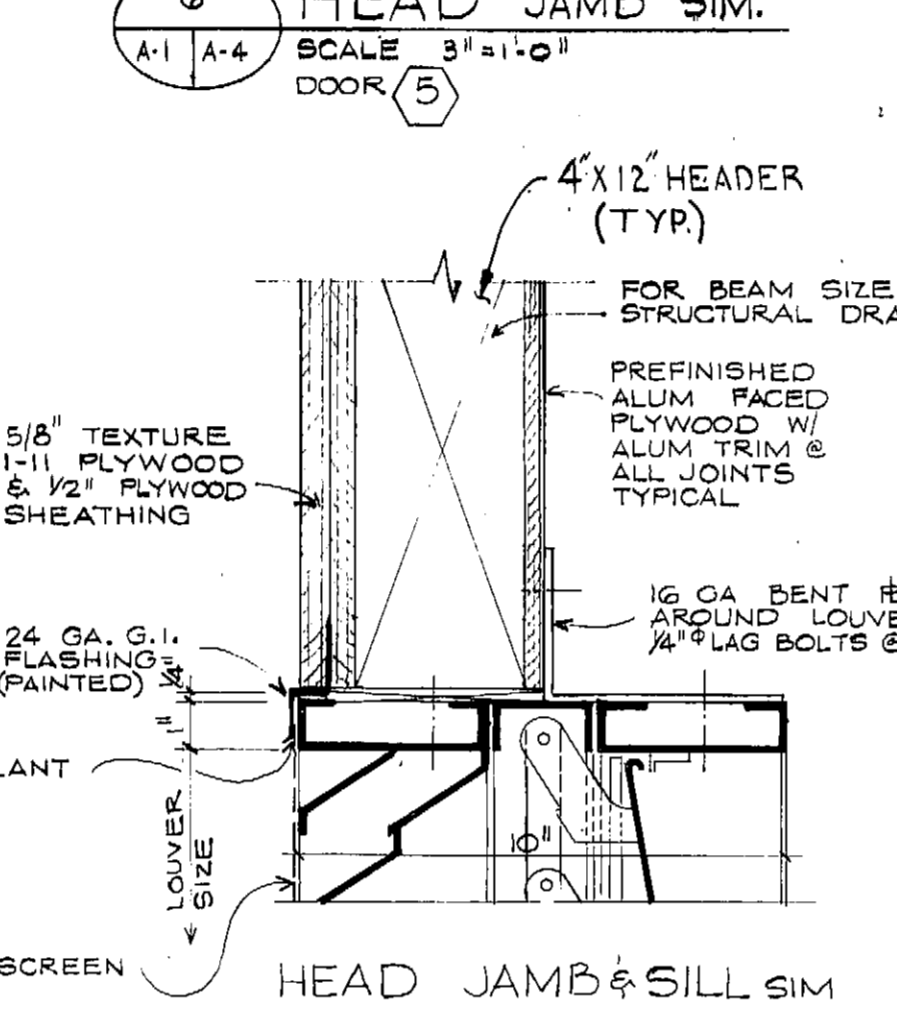
2 BENCH DETAIL
SCALE 1/2" = 1'-0"



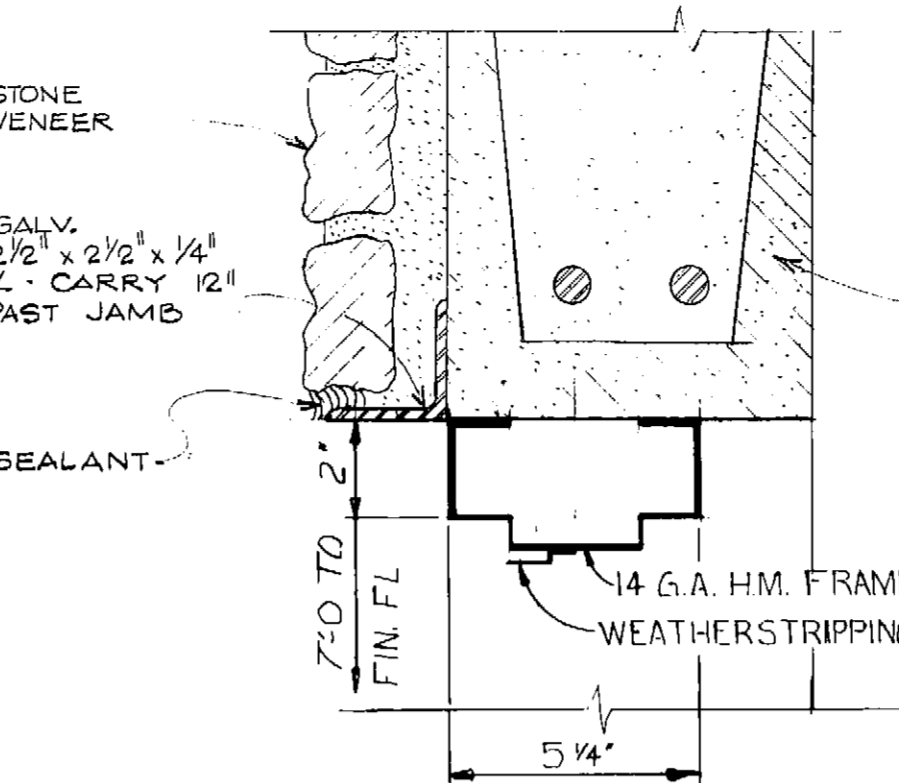
3 LOCKER BASE
SCALE 1/2" = 1'-0"



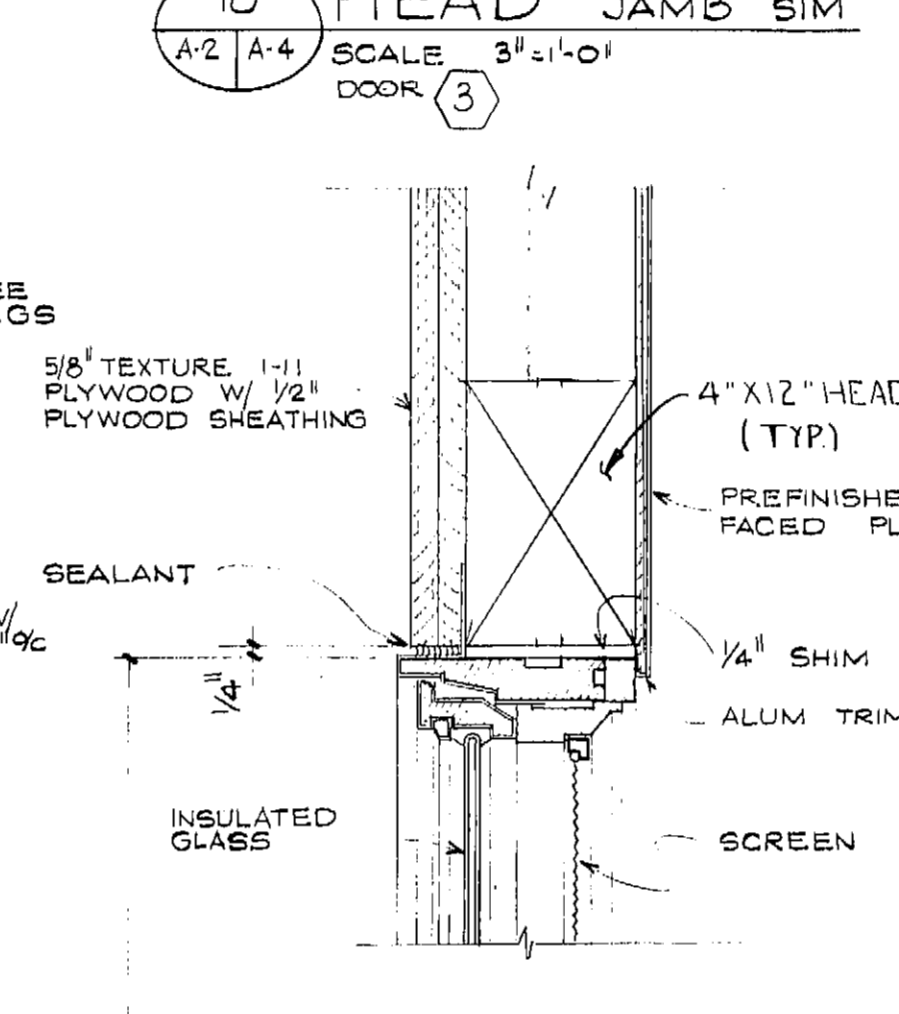
4 SHOWER DETAILS
SCALE 3/8" = 1'-0"



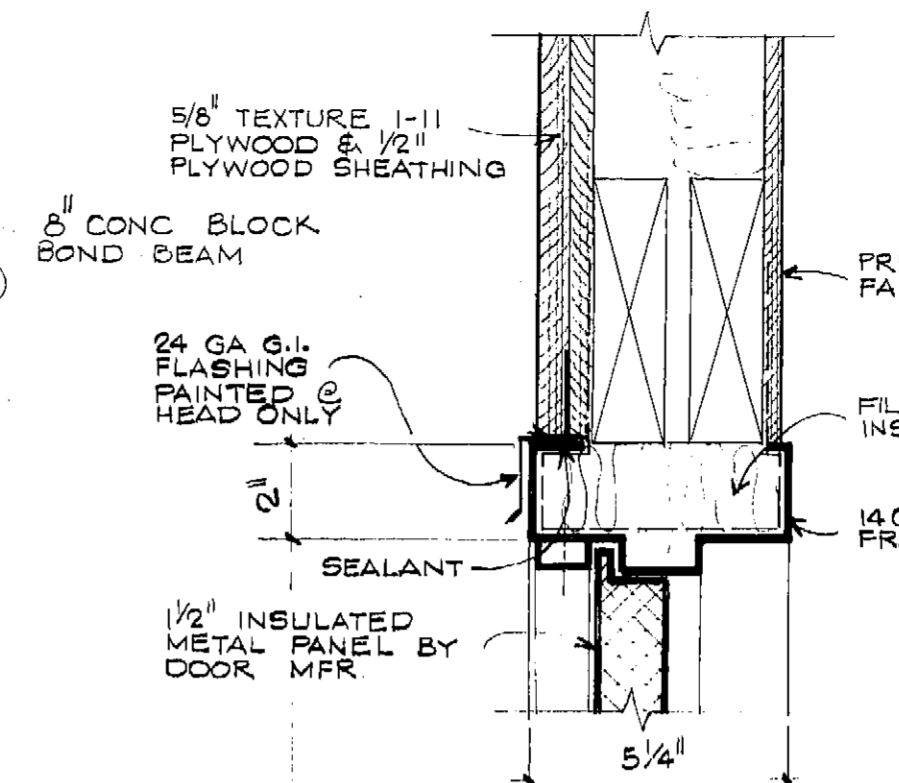
5 HEAD JAMB SIM.
SCALE 3/8" = 1'-0"



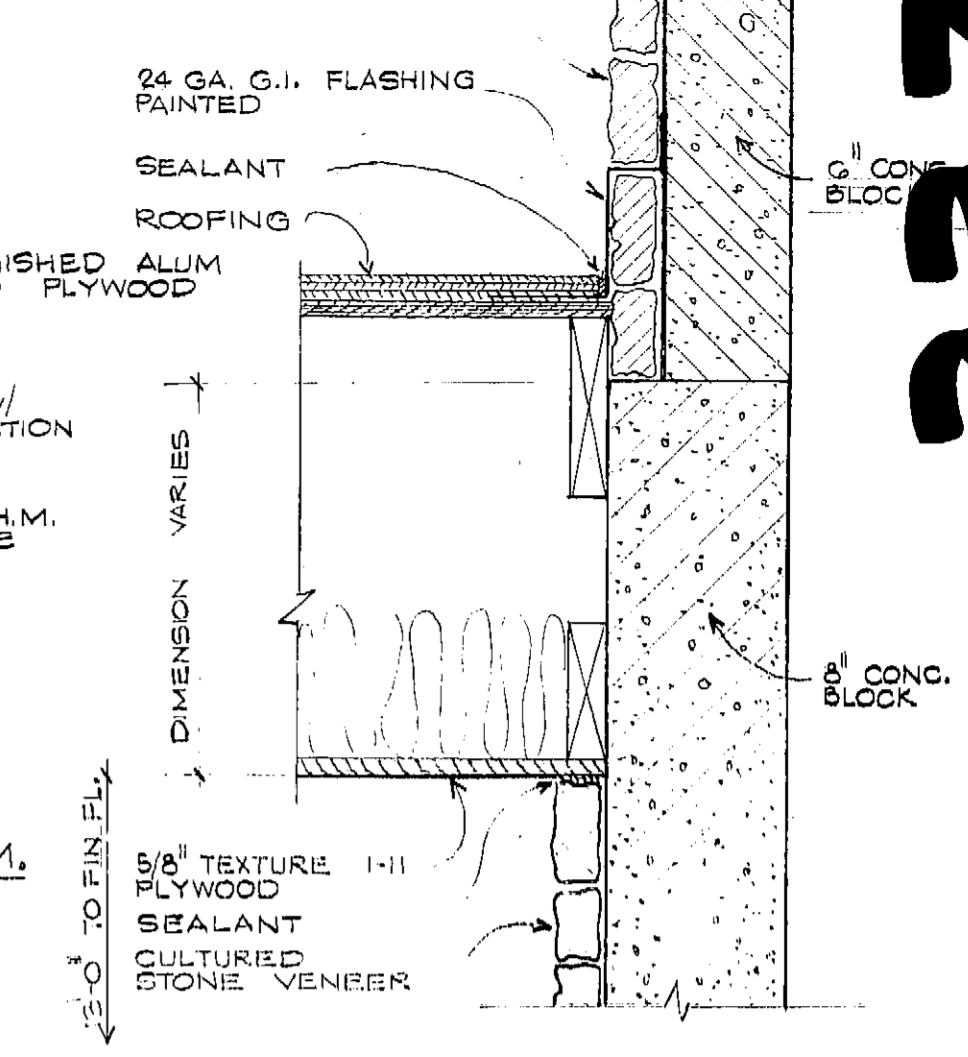
6 LOUVER DET.
SCALE 3/8" = 1'-0"



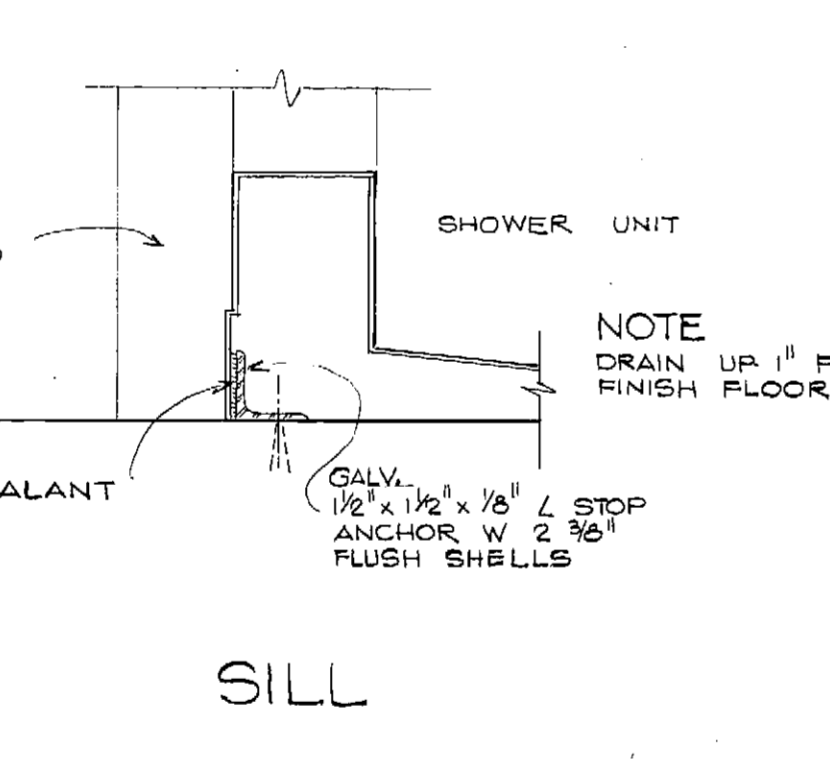
7 HEAD JAMB SIM.
SCALE 3/8" = 1'-0"



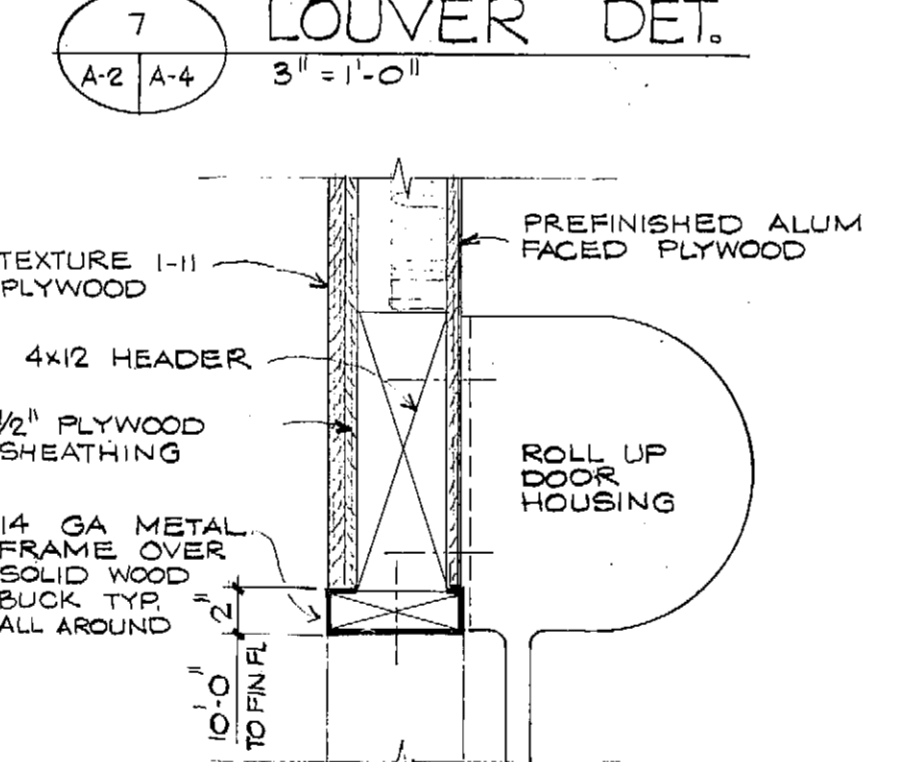
8 HEAD JAMB SIM.
SCALE 3/8" = 1'-0"



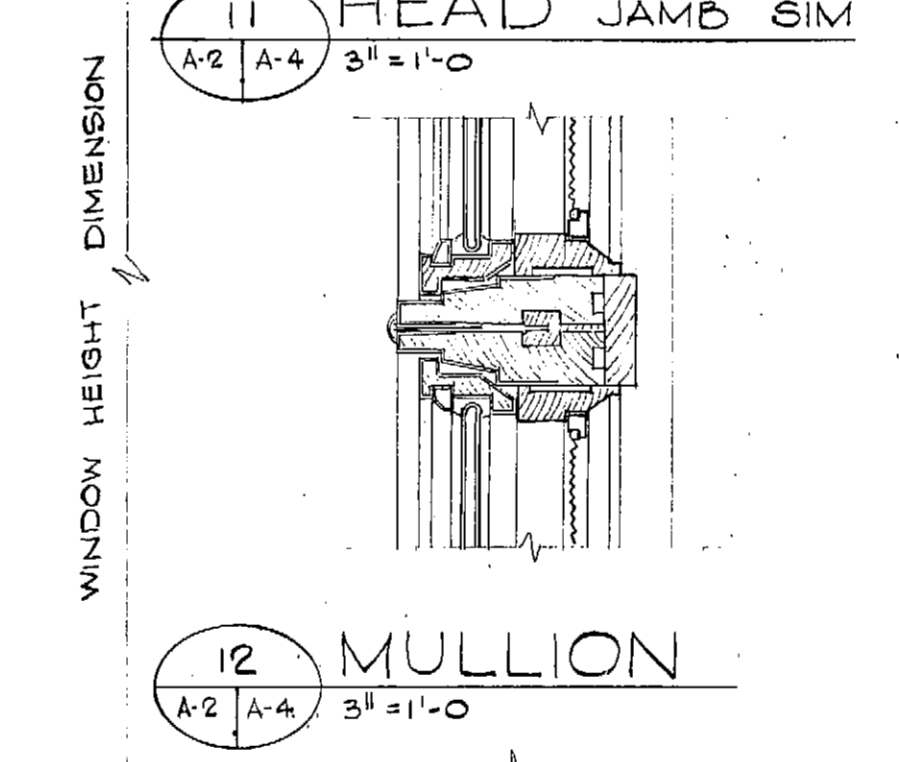
9 PARTIAL WALL SECTION
SCALE 1/2" = 1'-0"



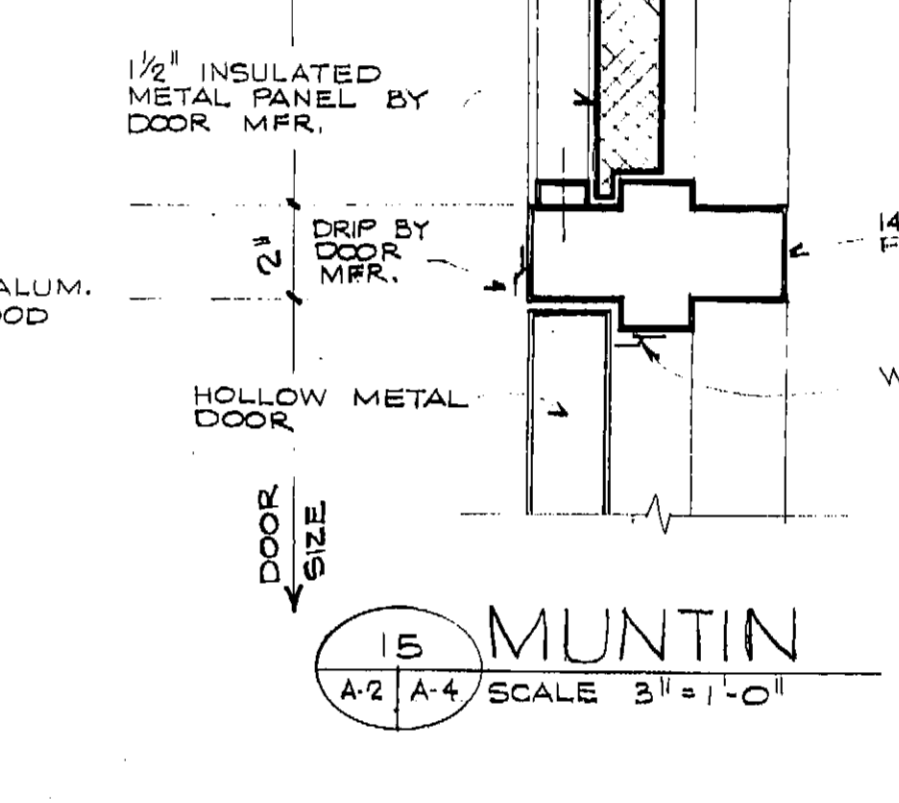
10 MUNTIN
SCALE 3/8" = 1'-0"



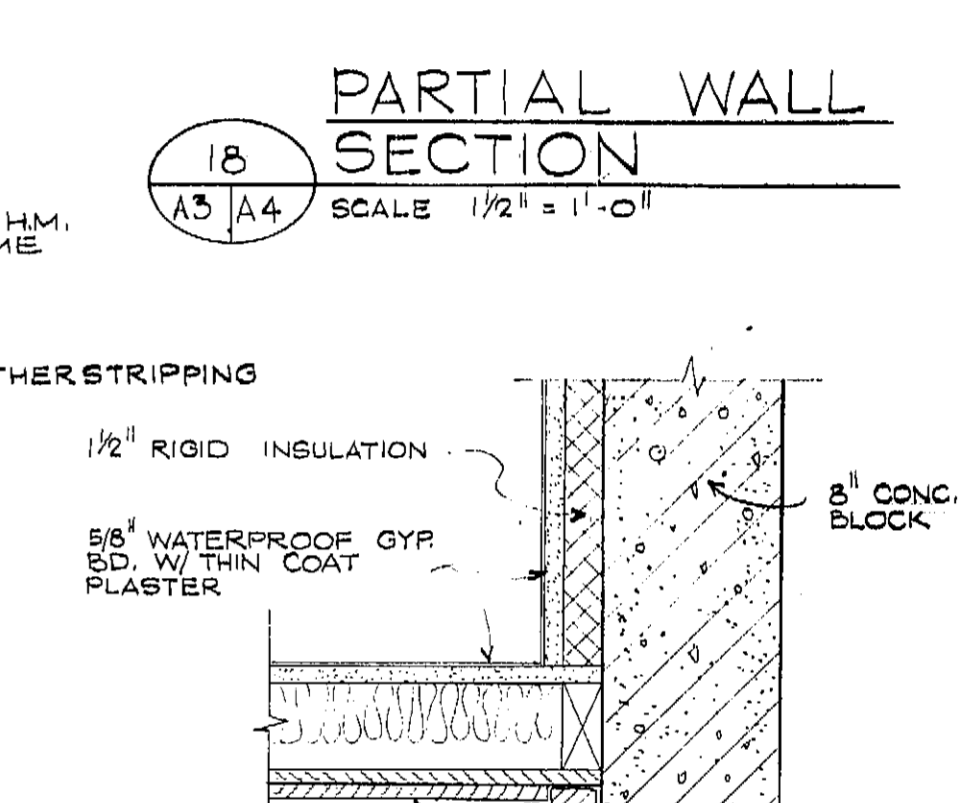
11 HEAD JAMB SIM.
SCALE 3/8" = 1'-0"



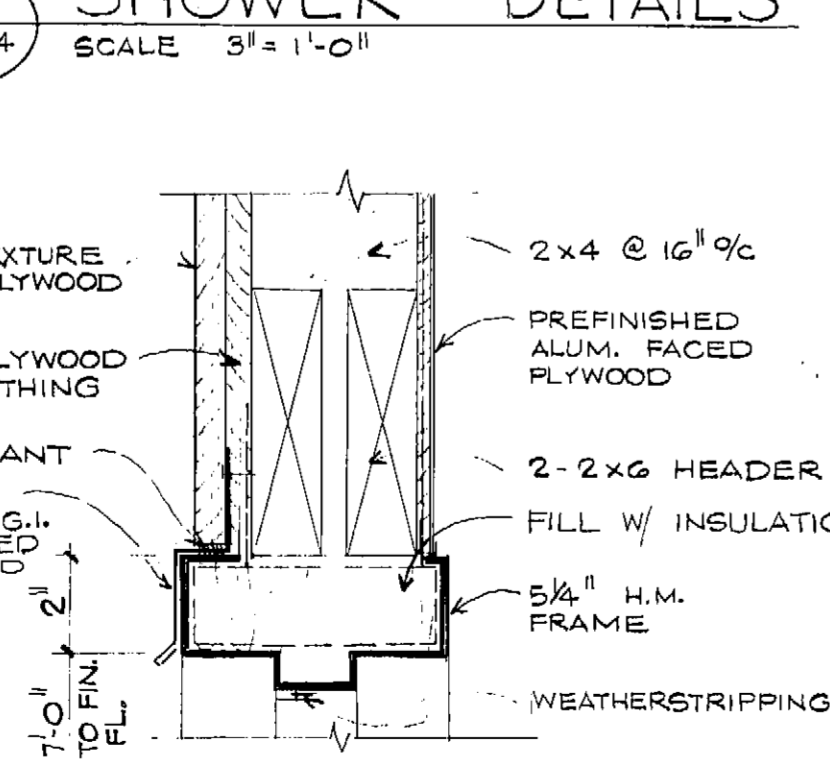
12 MULLION
SCALE 3/8" = 1'-0"



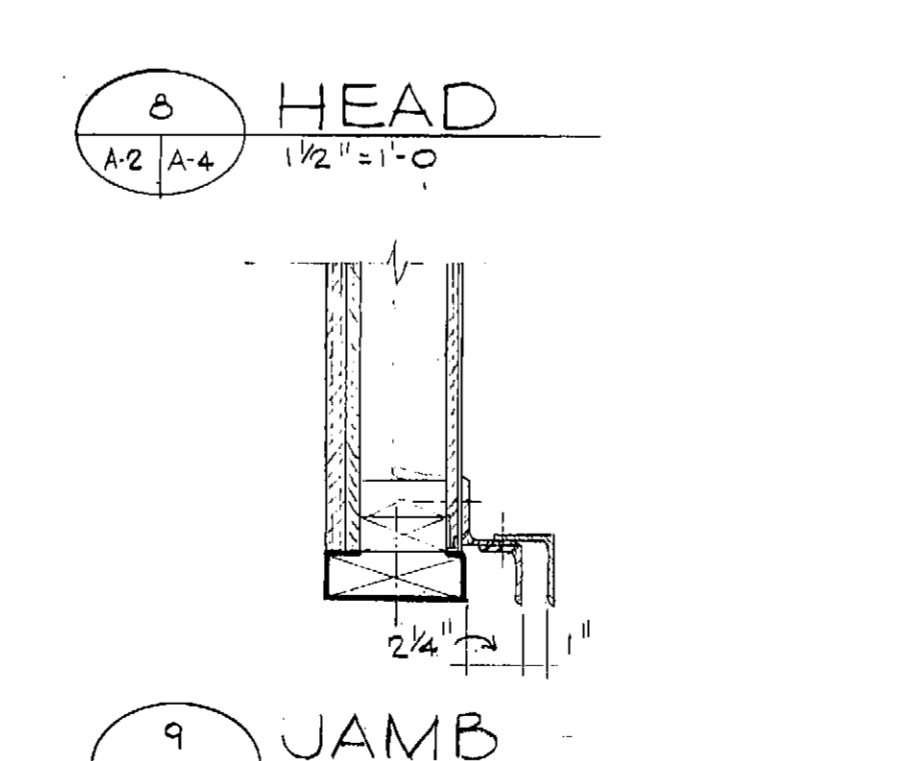
13 SILL
SCALE 3/8" = 1'-0"



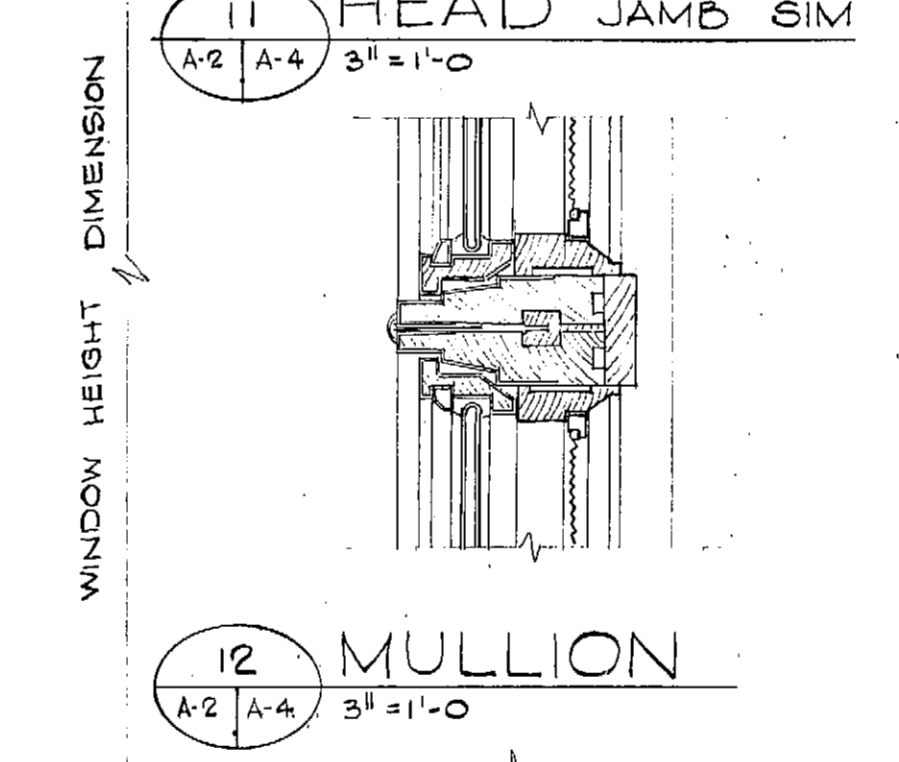
14 JAMB
SCALE 1/2" = 1'-0"



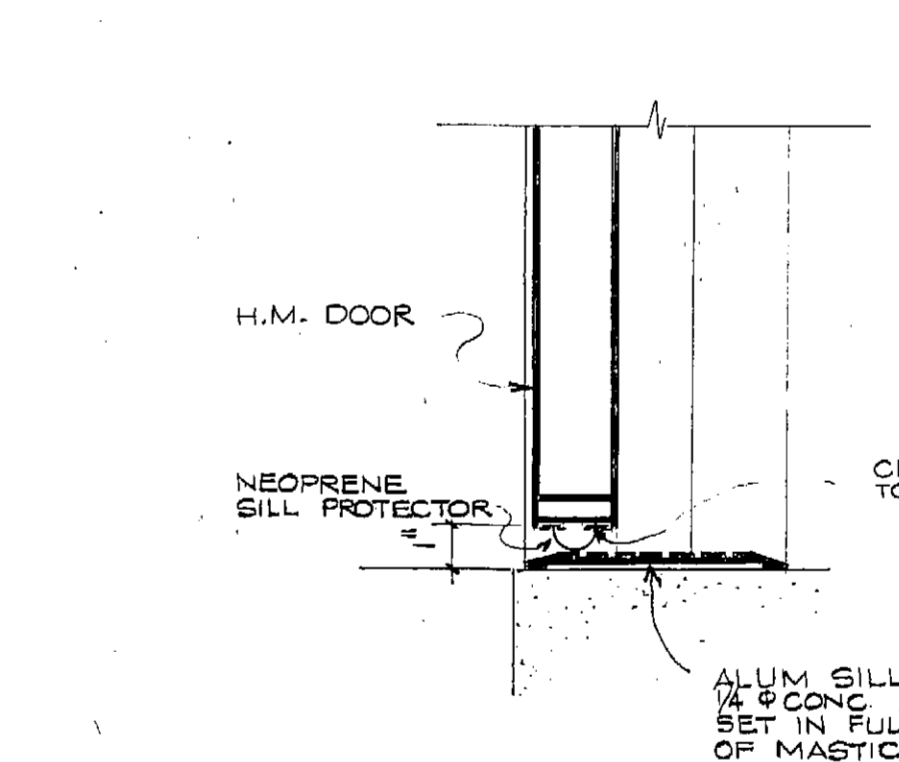
15 HEAD JAMB SIM.
SCALE 3/8" = 1'-0"



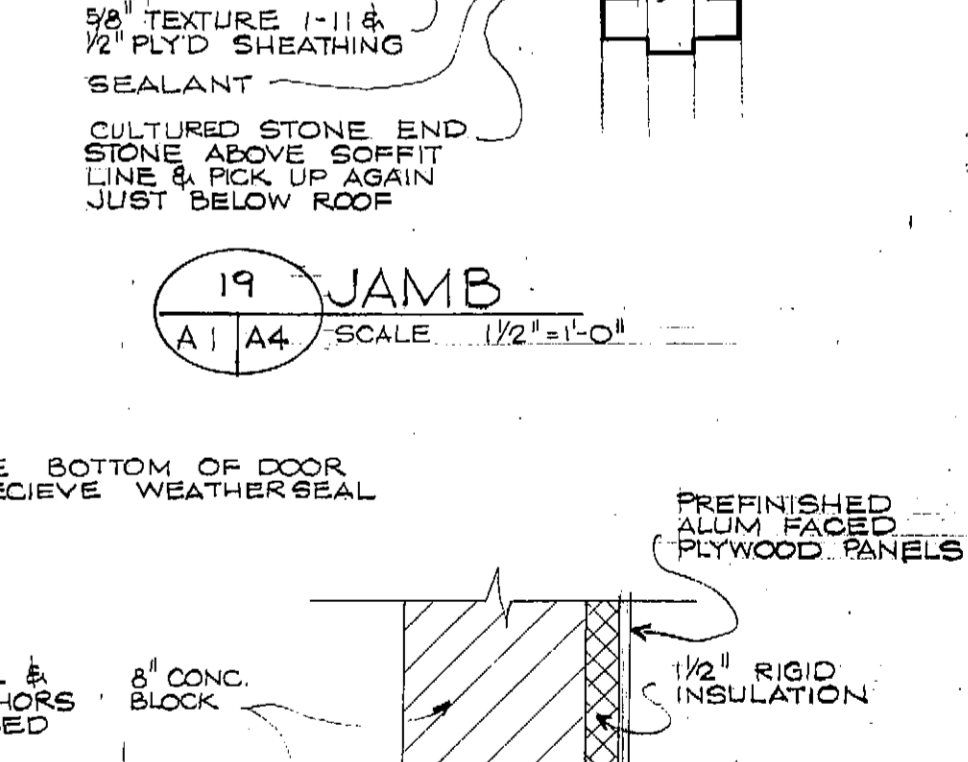
16 SILL
SCALE 1/2" = 1'-0"



17 STAIR NOSING DETAIL
SCALE 3/8" = 1'-0"



18 CORNER DETAIL
SCALE 1/2" = 1'-0"



19 JAMB
SCALE 1/2" = 1'-0"

DESIGNED G.H.W.	APPROVED <i>[Signature]</i>
DRAWN R.L.H.	SCALE AS SHOWN DATE APR., 1972
CHECKED G.H.W.	FILE 70-PG 80-10127

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

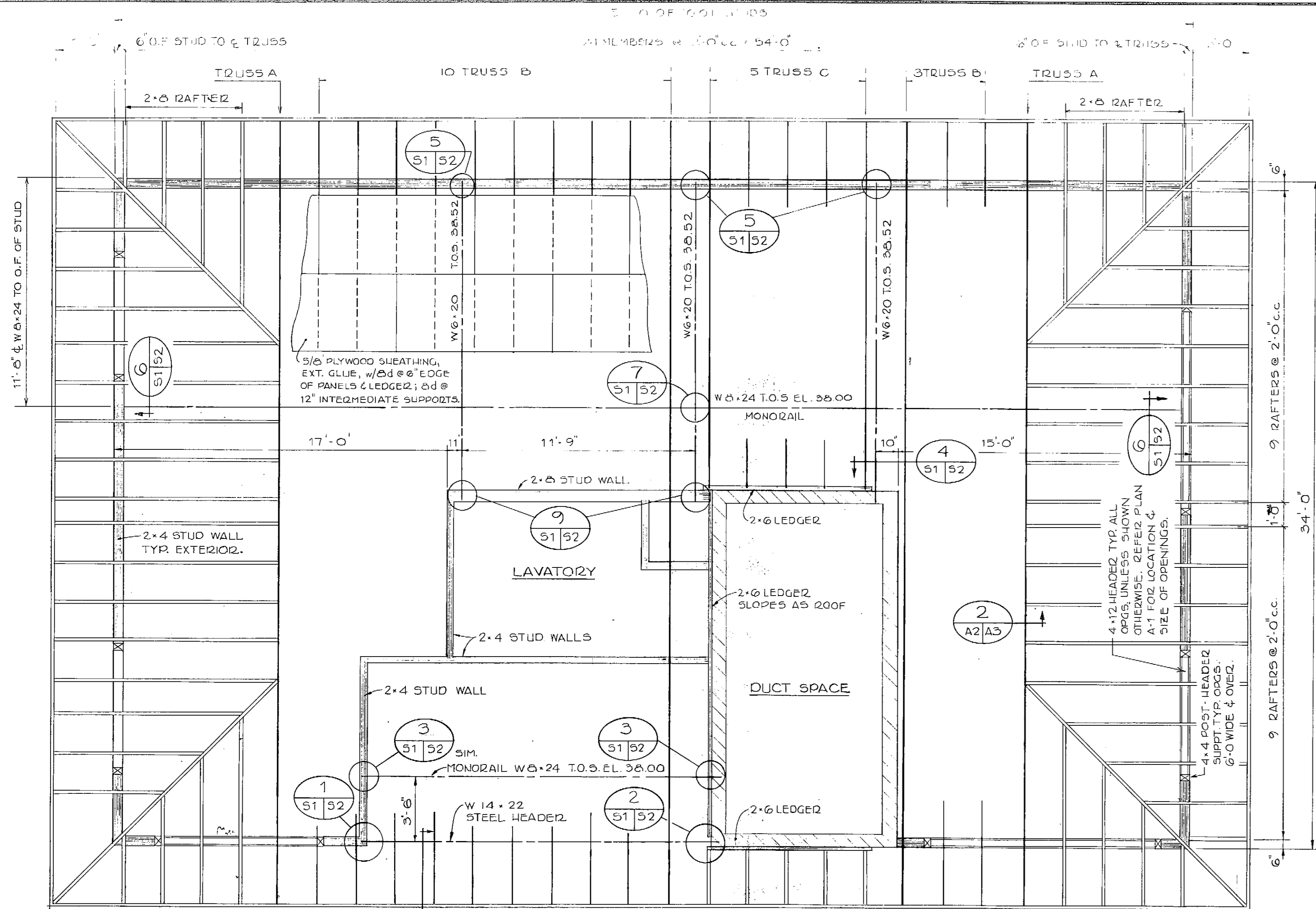


GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

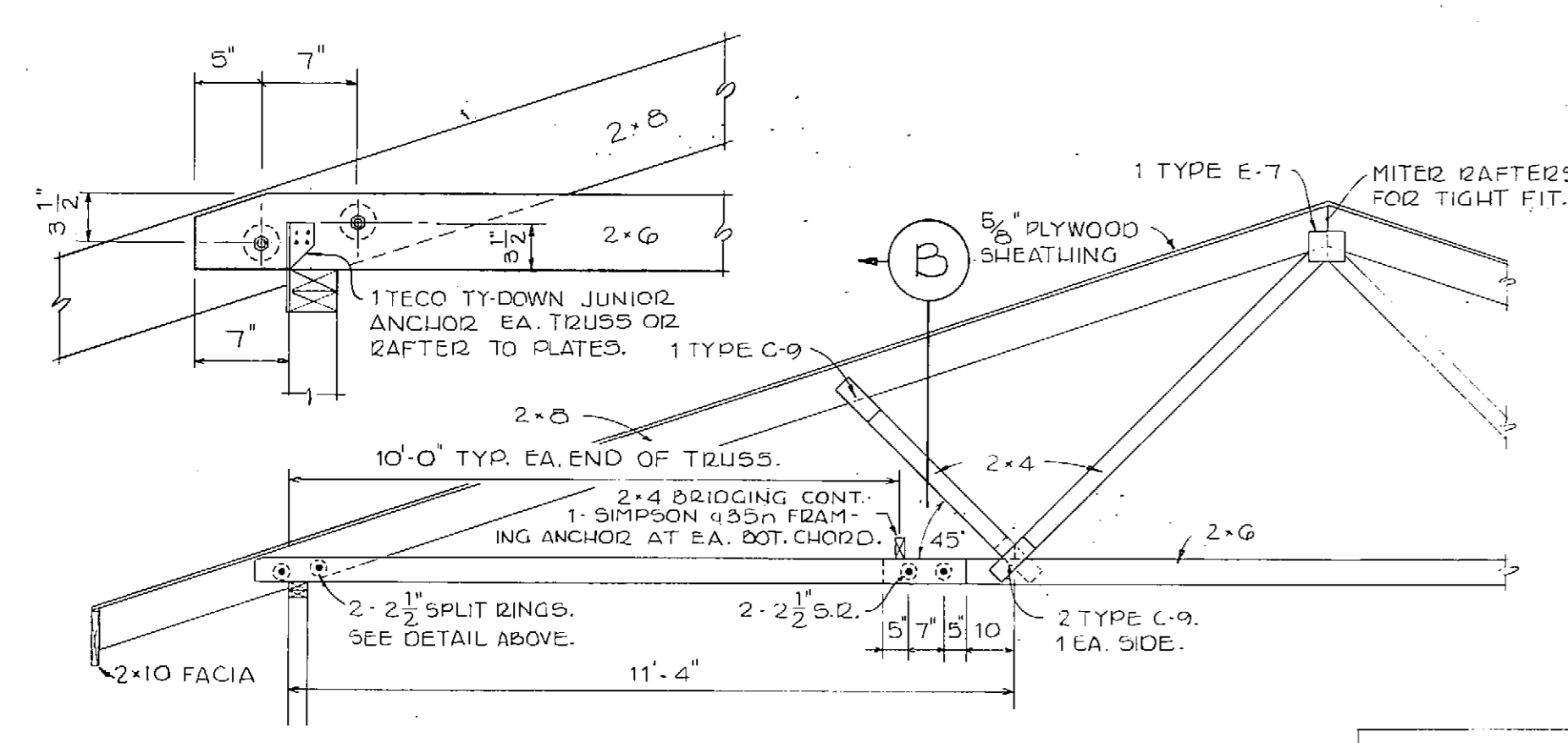
CAMPBELL CREEK PUMP STATION
DETAILS

SHEET
A4
4

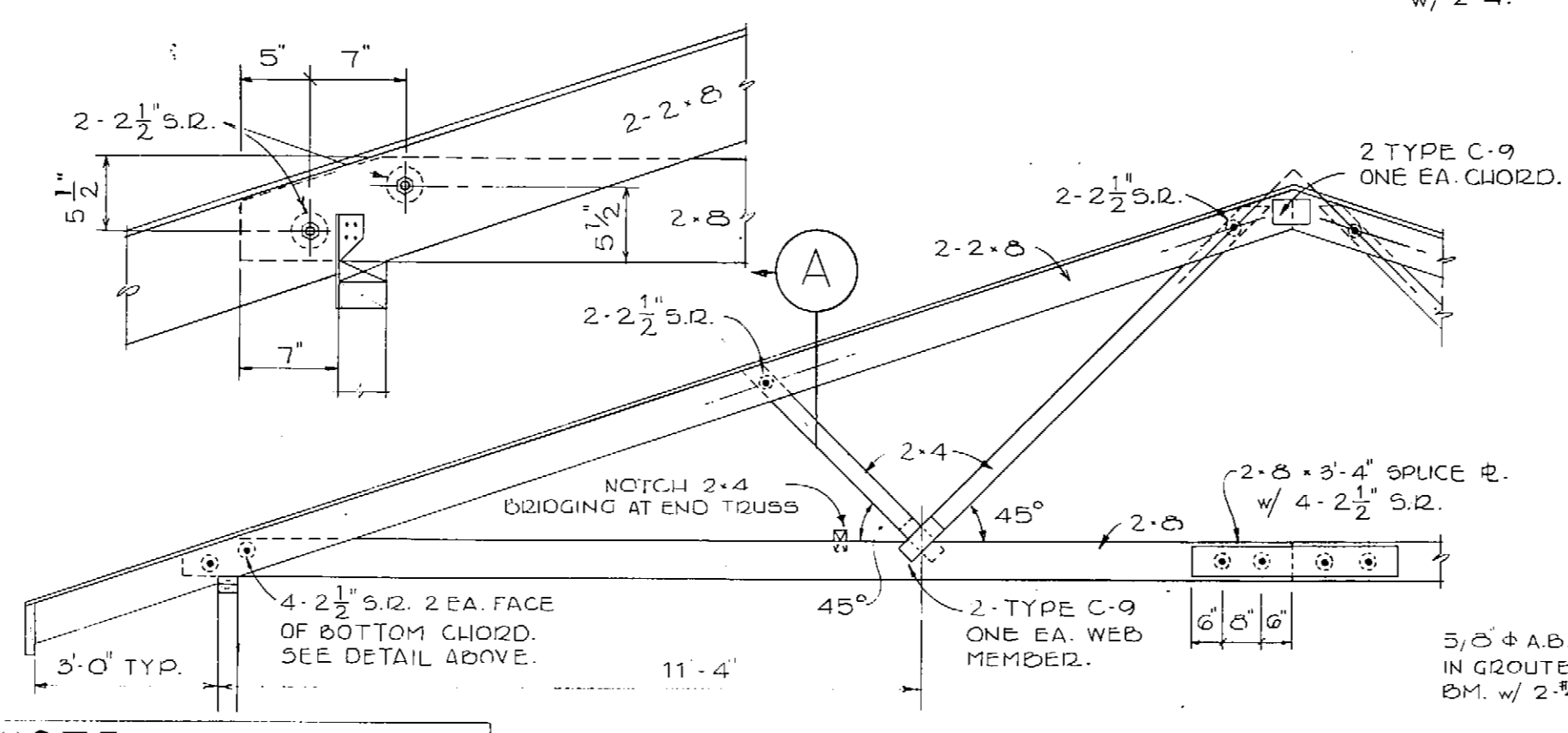




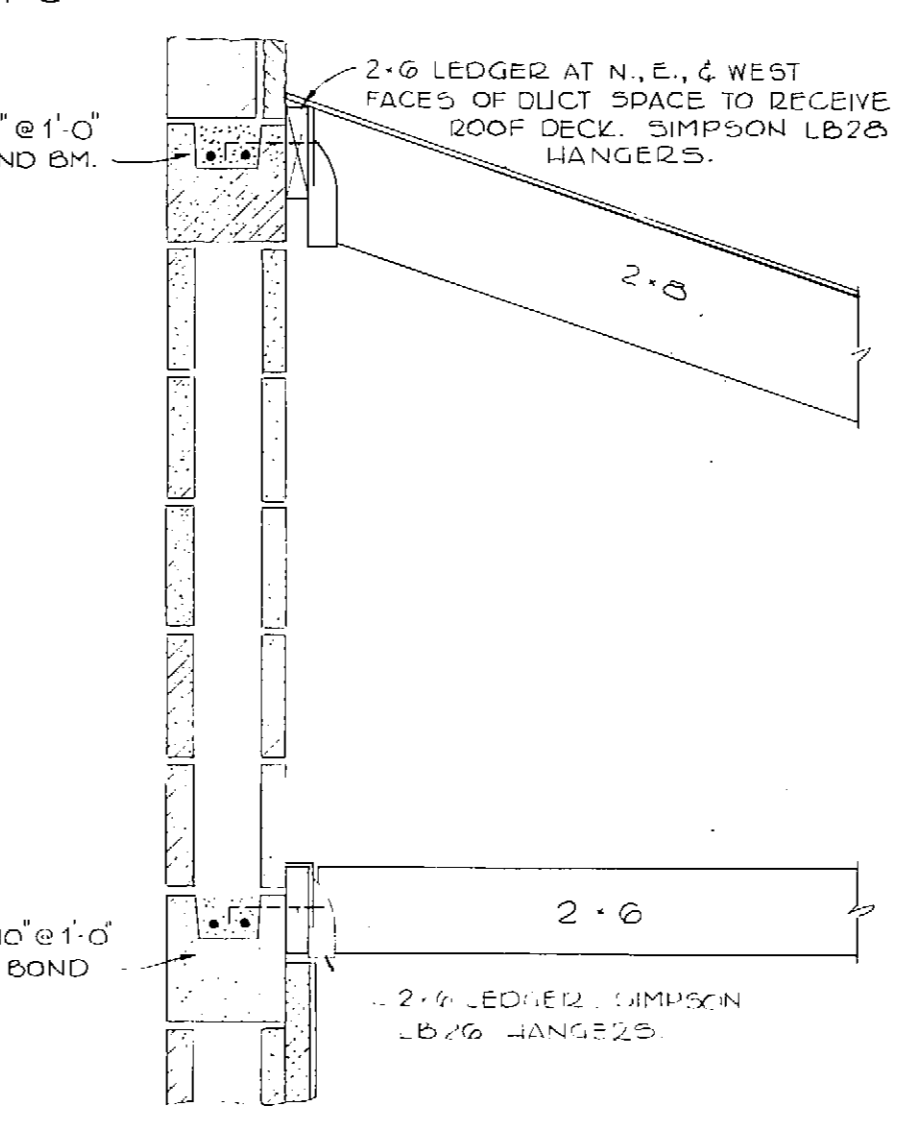
ROOF FRAMING PLAN
1/4" = 1'-0"



INTERMEDIATE TRUSS B
3/8" = 1'-0"

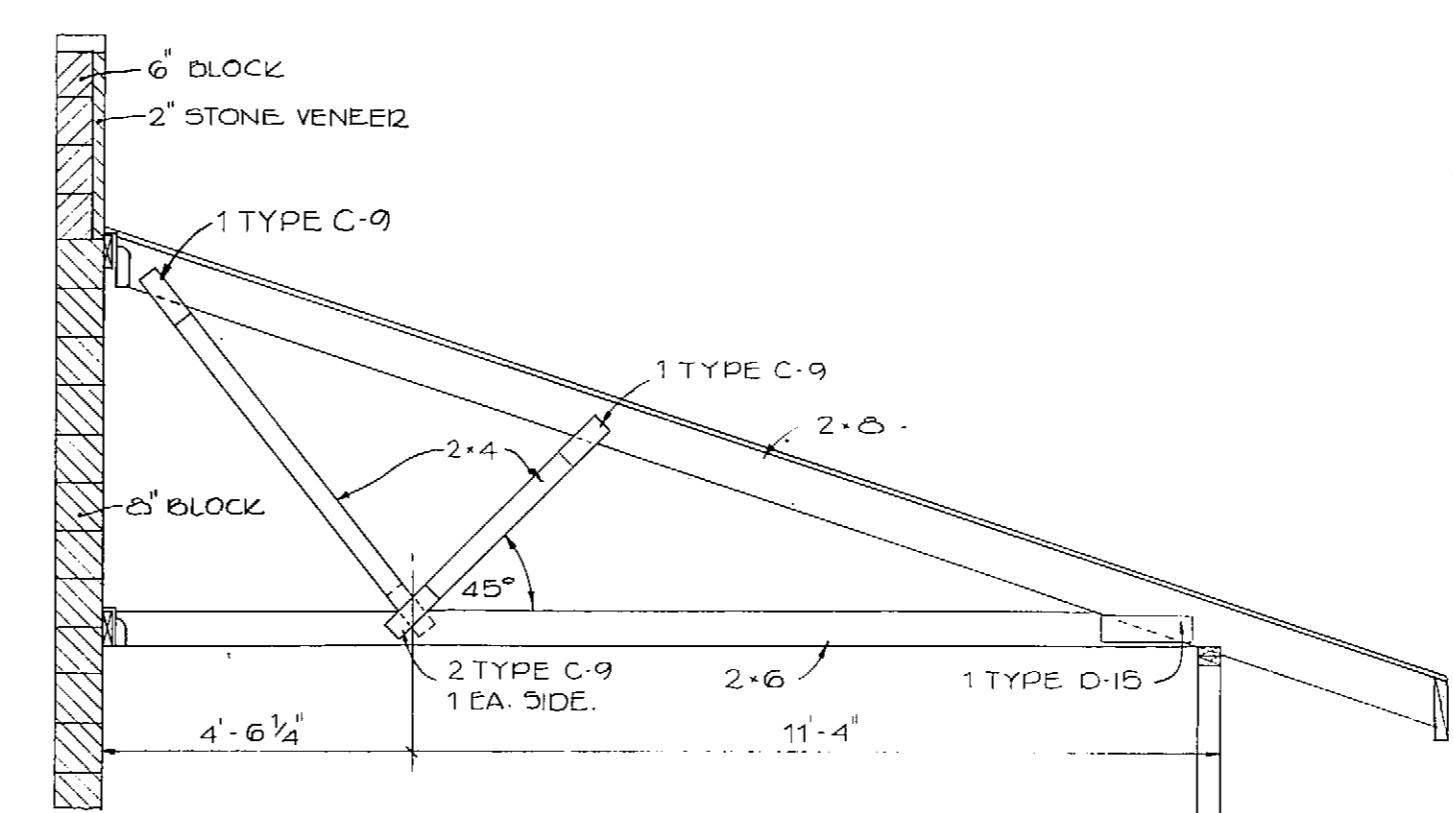
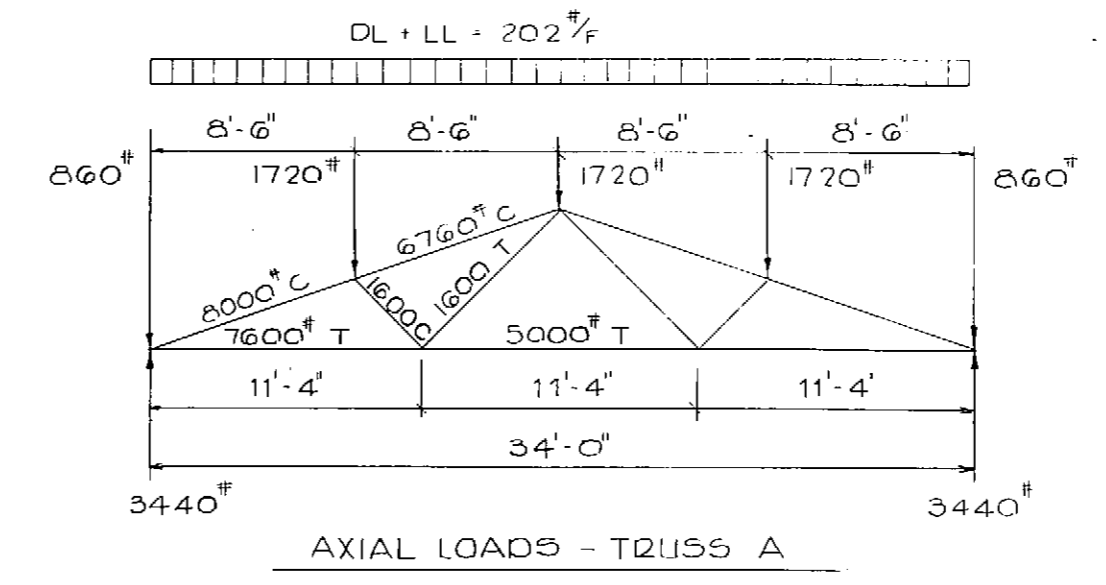
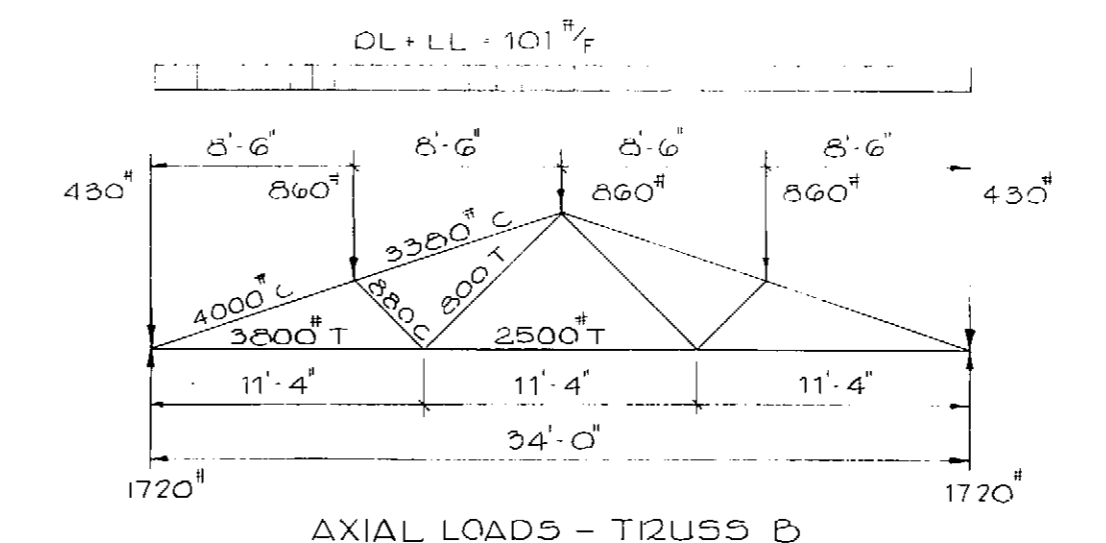


END TRUSS A
3/8" = 1'-0"



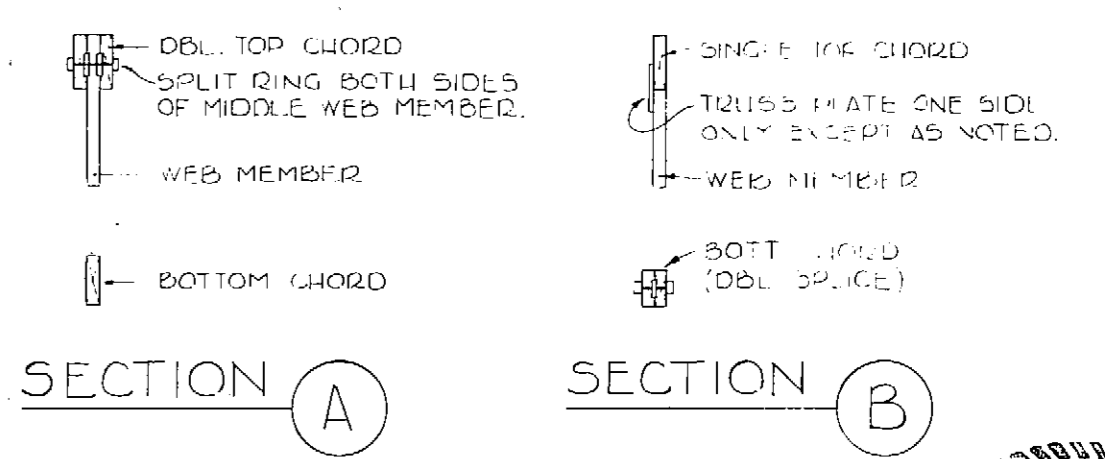
TRUSS C AT MASONRY WALL
1" = 1'-0"

NOTE
TRUSS PLATES ARE TECO w/ 20 GA. GALV. Od. 1 1/2" NAILS. OTHER CONNECTOR TYPES ARE OPTIONAL ON APPROVAL. NUMBER OF NAILS PER CONNECTED MEMBER TO BE BASED ON AN ALLOWABLE SHEAR FORCE OF 70 LB. PER NAIL. SPLIT RINGS ARE TECO 2 1/2" φ w/ 1/2" φ THROUGH BOLTS AND TIMBER WASHERS.



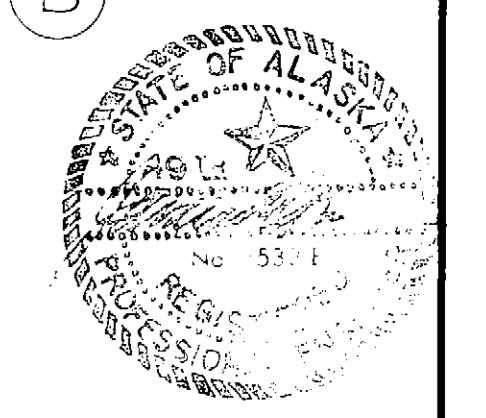
PARTIAL TRUSS C
3/8" = 1'-0"

- GENERAL**
- VERIFY DETAILS AND DIMENSIONS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
 - DESIGN LIVE LOADS
ROOF - 40 PSF
FLOOR - 100 PSF - EQUIP.
WIND - 25 PSF
SEISMIC - ZONE III
EXTERIOR WALLS BELOW GRADE DESIGNED FOR EXTERNAL EQUIVALENT FLUID PRESSURE OF 15 PSF TO EL. 10'.
 - SLABS POURED ON GRADE AND BASE SLABS TO REST ON MINIMUM OF 1-1/2" MINUS GRANULAR FILL COMPACTED TO 95% AT OPTIMUM MOISTURE CONTENT.
- CONCRETE**
- ALL CONCRETE TO BE 3000 PSI AT 28 DAYS.
 - CONCRETE BELOW GRADE AND CONCRETE FOR LIQUID RETAINING STRUCTURES SHALL CONTAIN A WATER REDUCING AGENT AS PER SPECIFICATIONS.
 - FOR CONSTRUCTION JOINTS AND WATERSTOPS NOT SHOWN ON DRAWINGS, SEE SPECIFICATIONS.
- REINFORCING**
- REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 40. DETAIL AND PLACE PER ACI MANUAL 312 AND CODE 318 EXCEPT AS NOTED.
 - PROVIDE STANDARD 90° HOOK FOR ALL OUTSIDE HORIZONTAL WALL STEEL AT CORNERS AND INTERSECTIONS UNLESS OTHERWISE NOTED ON DRAWINGS.
 - LAPPED SPLICES TO BE 30 BAR DIAMETERS UNLESS OTHERWISE NOTED.
 - UNLESS OTHERWISE SHOWN, REINFORCE ALL WALLS AND SLABS WITH 1/4 OF 1% EACH WAY AND 2 #5 ADDITIONAL AT TOP, BOTTOM AND SIDES OF ALL OPENINGS EXCEEDING 12".
- STRUCTURAL STEEL**
- ALL STRUCTURAL STEEL ASTM A36.
 - DETAIL AND FABRICATE TO AISC SPECIFICATIONS.
 - WELDING BY CERTIFIED WELDER AND CONFORM TO AWS STANDARDS.
 - CONNECTION BOLTS AND ANCHOR BOLTS AS PER ASTM A-307.
 - HOT-DIP GALVANIZE ALL FERROUS METALS AND HARDWARE UNLESS OTHERWISE INDICATED.
- WOOD**
- SAWN LUMBER: DOUGLAS FIR AND LARCH, L. F. AND J. & P.
F_b = 1500 (UBC 1970).
- BLOCK**
- SHALL BE NORMAL WEIGHT UNITS CONFORMING TO ASTM C-90 GRADE N-1 UNITS WITH TYPE S MORTAR AS PER UBC. F_m = 1350 PSI.
 - VERTICAL REINFORCING: 1-#4 @ 48" C.C. TYPICAL. ADD 1-#4 IN CORNER CELLS AND AT EACH SIDE OF DOOR OPENING. ALL VERTICALS LAPPED TO DOWELS IN SLAB.
 - HORIZONTAL: 2-#4 IN BOND BEAM OVER DOOR OPENING AND AT TOP OF 8" BLOCK WALL. 1-#4 IN BOND BEAM AT TOP OF 6" BLOCK WALL. LAP BOND BEAM AT OUTSIDE FACE OF WALL WITH 1-#4 x 2'-0" x 2'-0" CORNER BAR.



SECTION A

SECTION B



DESIGNED	R.W.S.	APPROVED	<i>[Signature]</i>
DRAWN	R.W.S.	SCALE	AS SHOWN
CHECKED	C.K., JGS	DATE	APR. 1972
FILE	70-P-680-002-1012B		

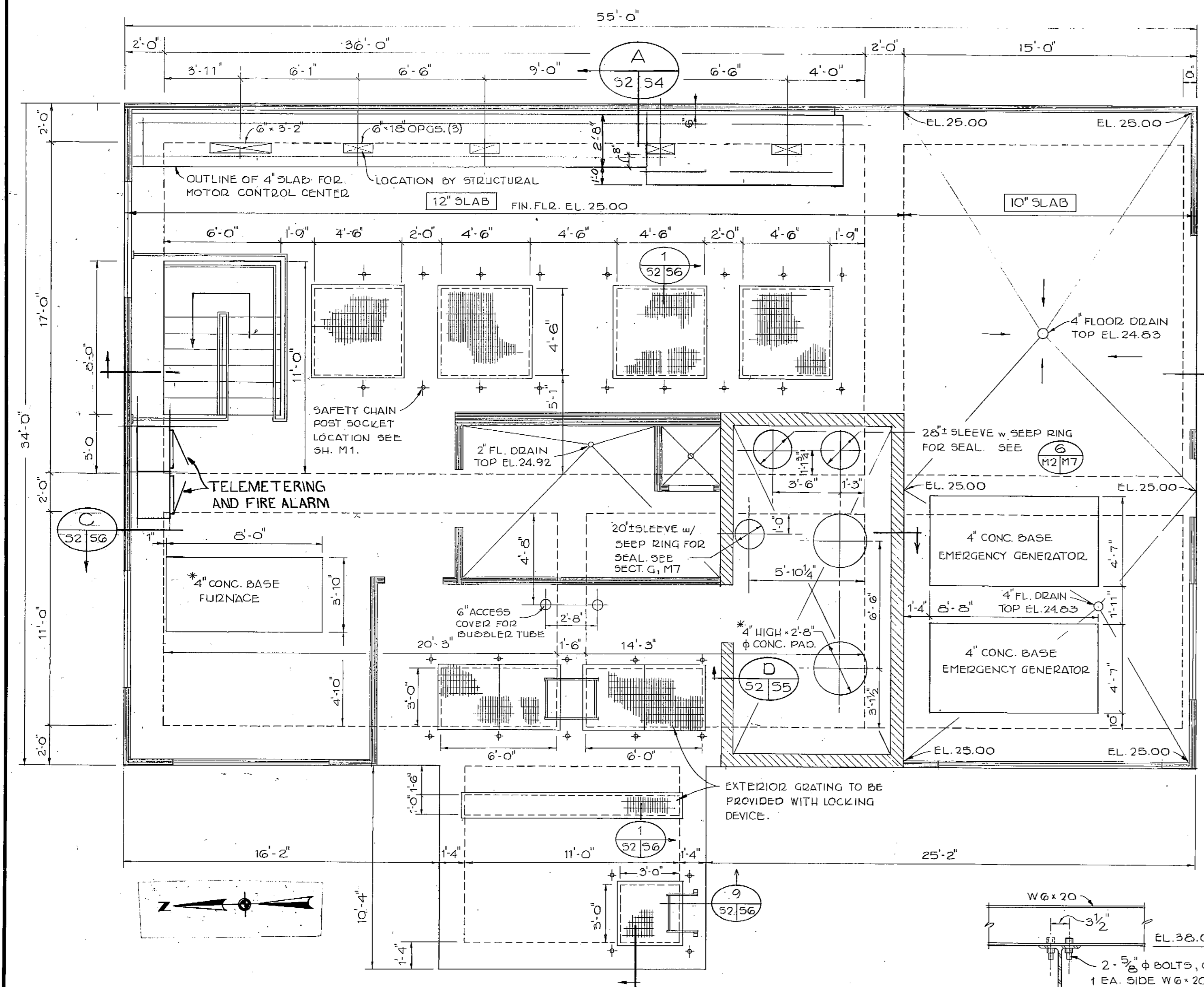
BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



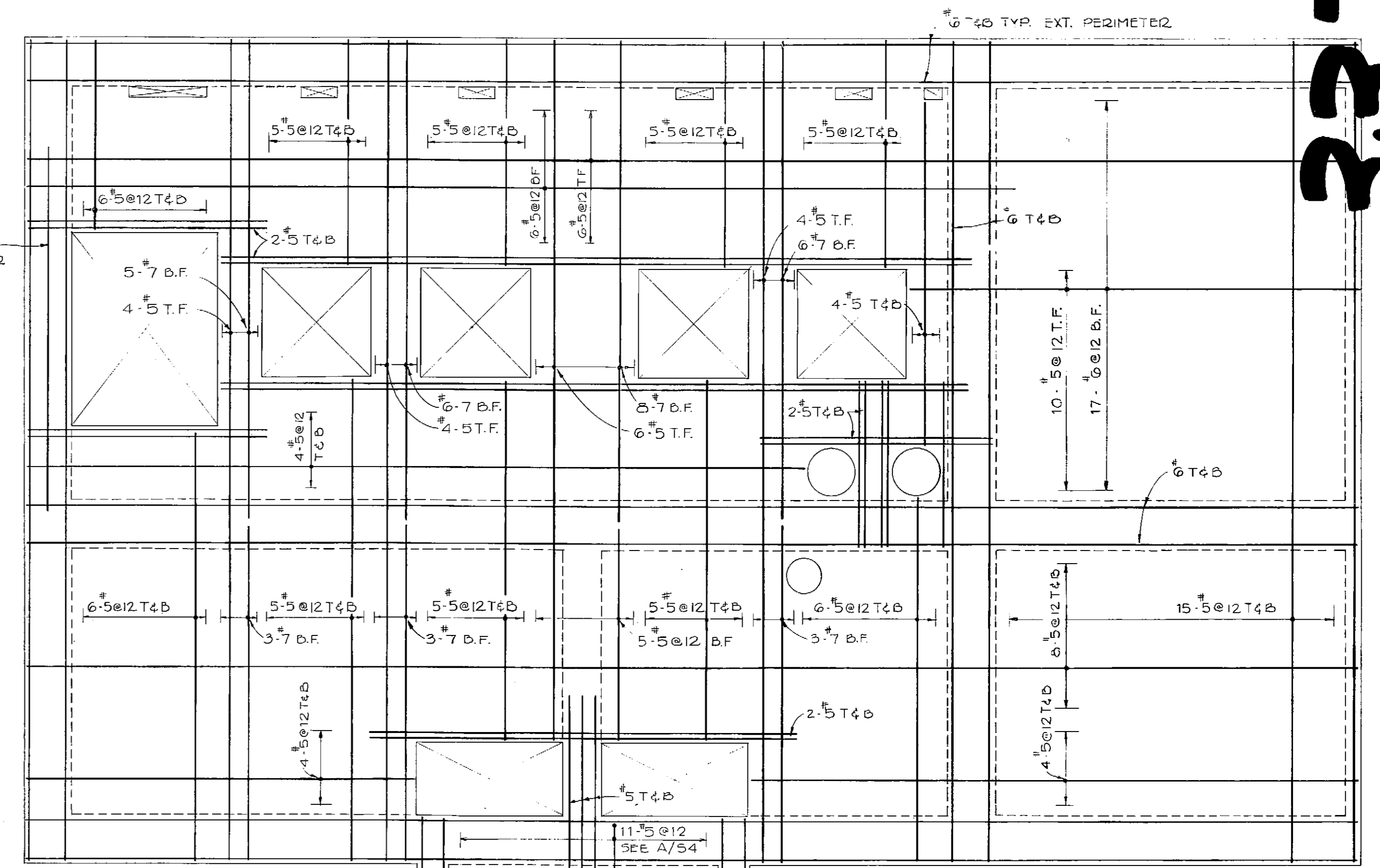
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
ROOF FRAMING PLAN & DETAILS

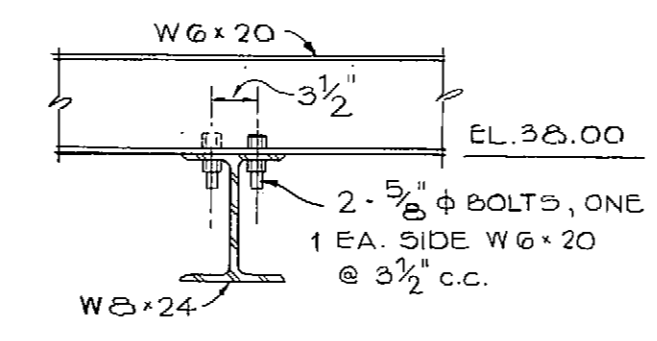
3377



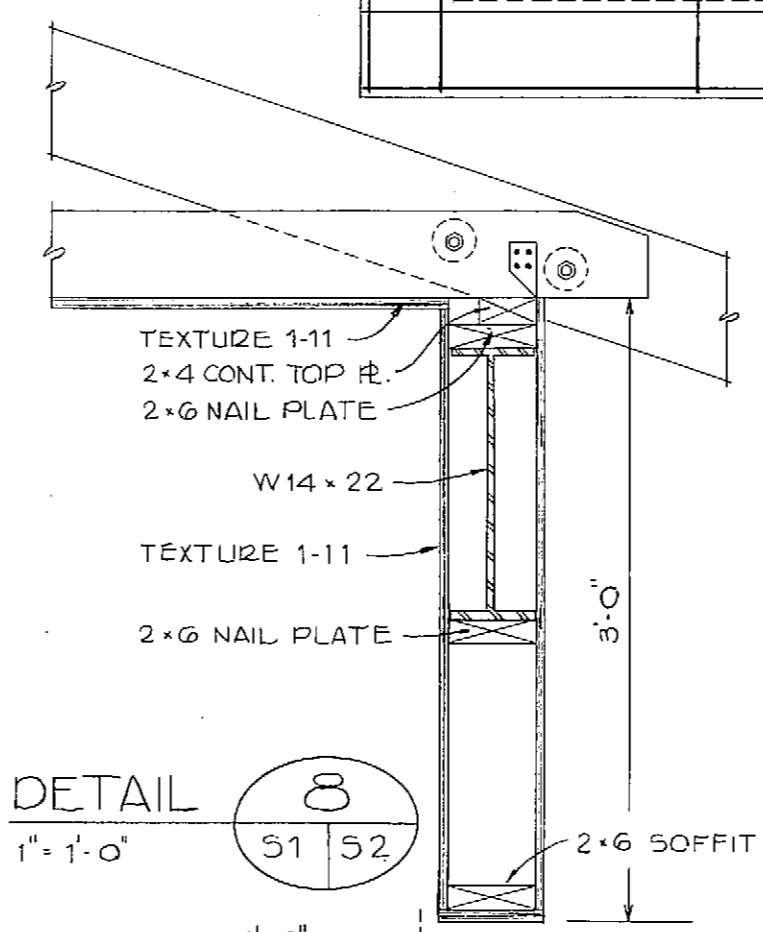
PLAN - CONTROL ROOM - EL 25.00
1/4" = 1'-0"



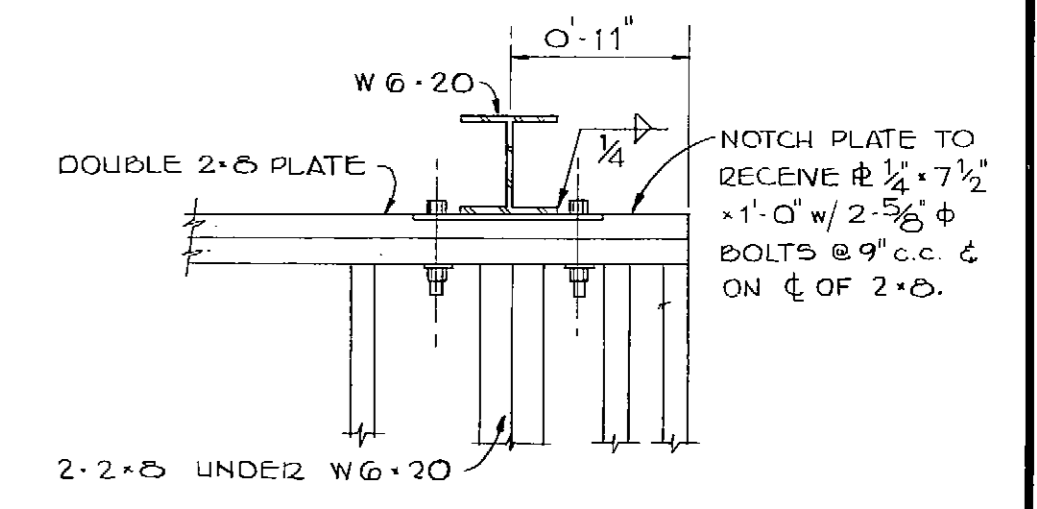
REINFORCING - CONTROL ROOM
1/4" = 1'-0"



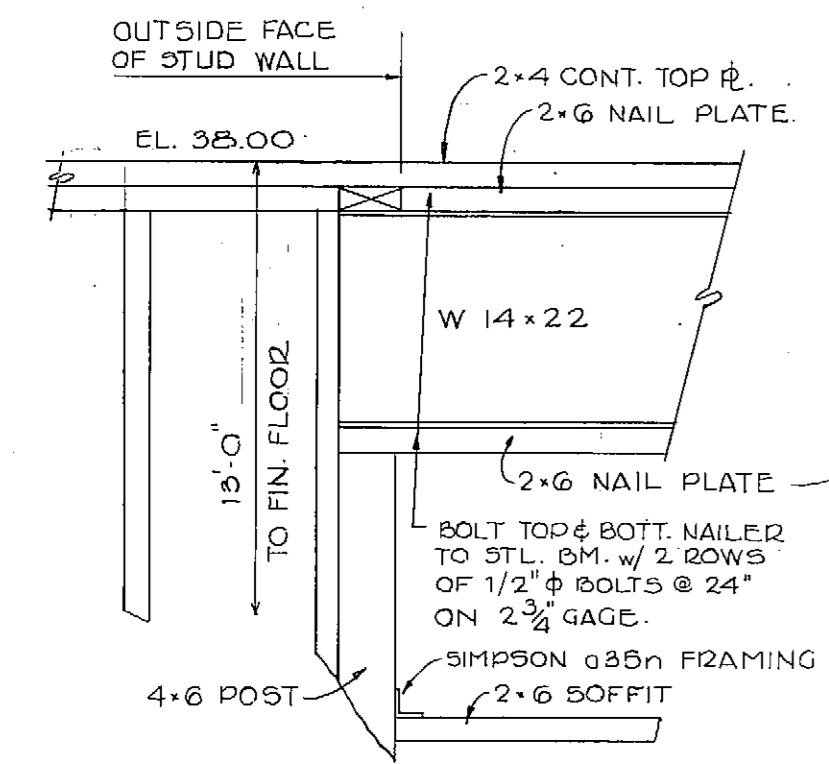
DETAIL 7
1'-1'-0" 51/52



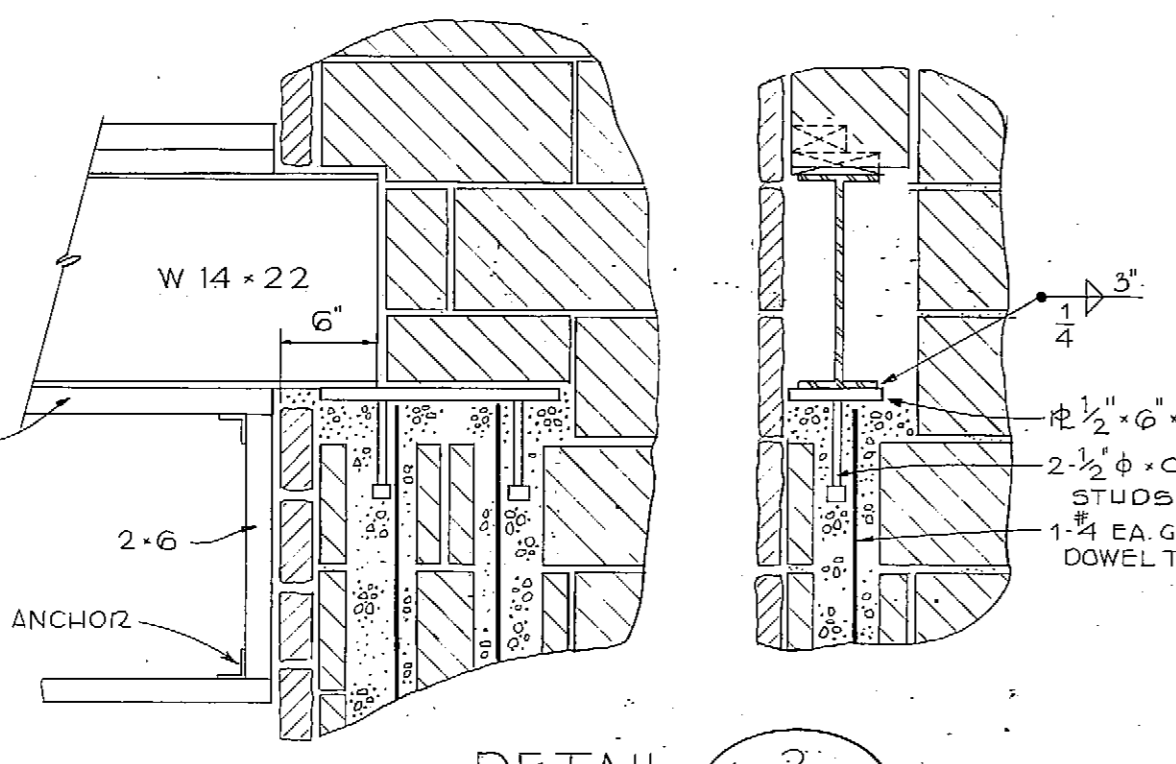
DETAIL 8
1'-1'-0" 51/52



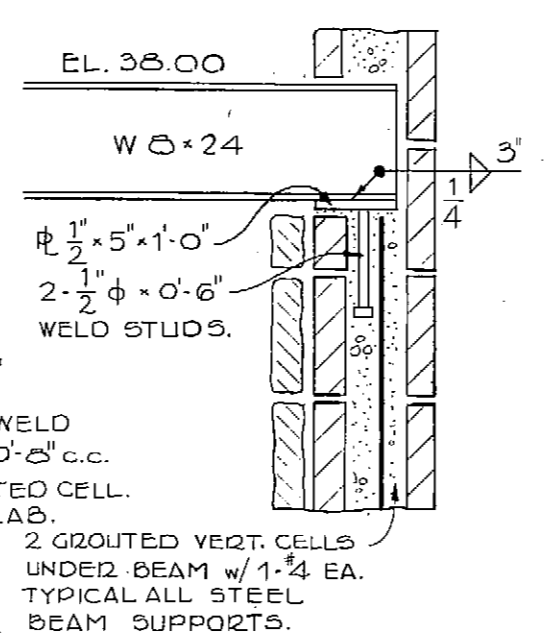
DETAIL 9
1'-1'-0" 51/52



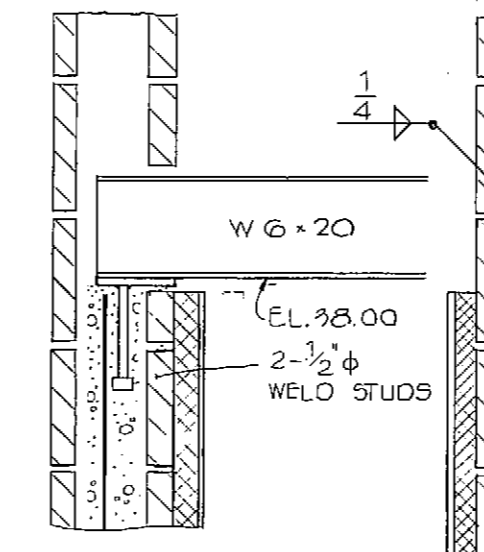
DETAIL 1
1'-1'-0" 51/52



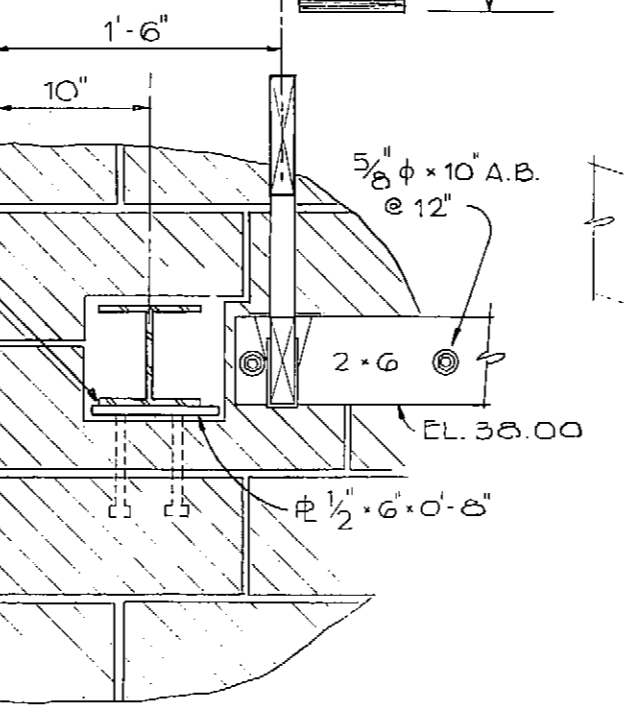
DETAIL 2
1'-1'-0" 51/52



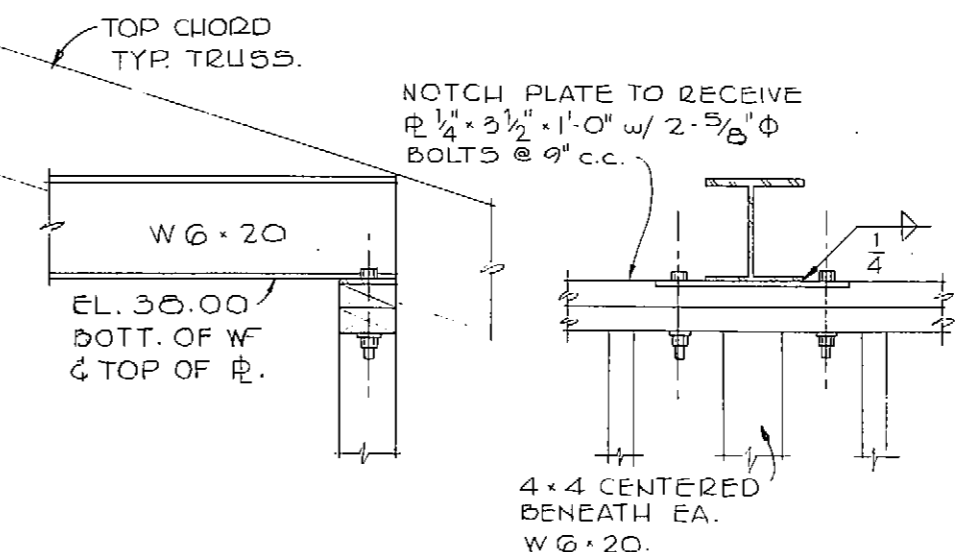
DETAIL 3
1'-1'-0" 51/52



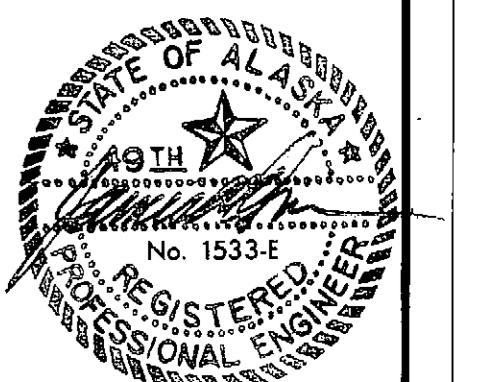
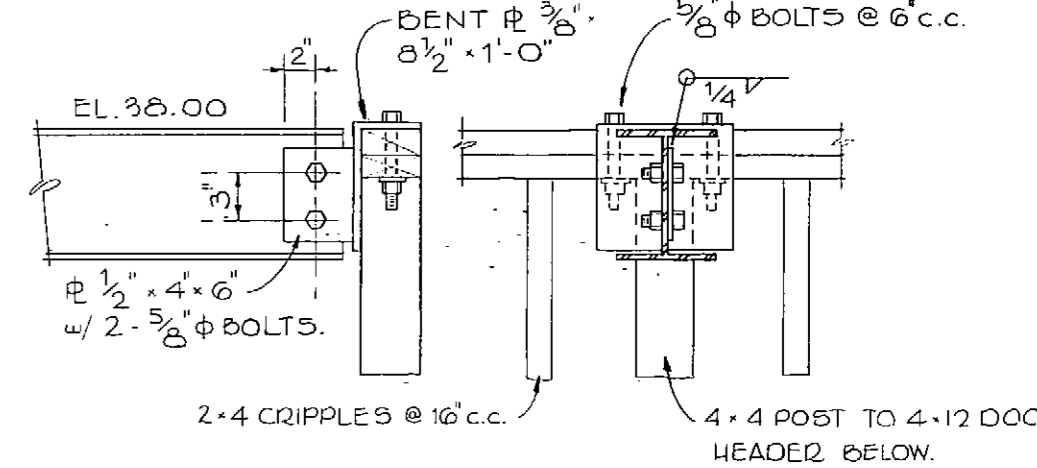
DETAIL 4
1'-1'-0" 51/52



DETAIL 5
1'-1'-0" 51/52



DETAIL 6
1'-1'-0" 51/52

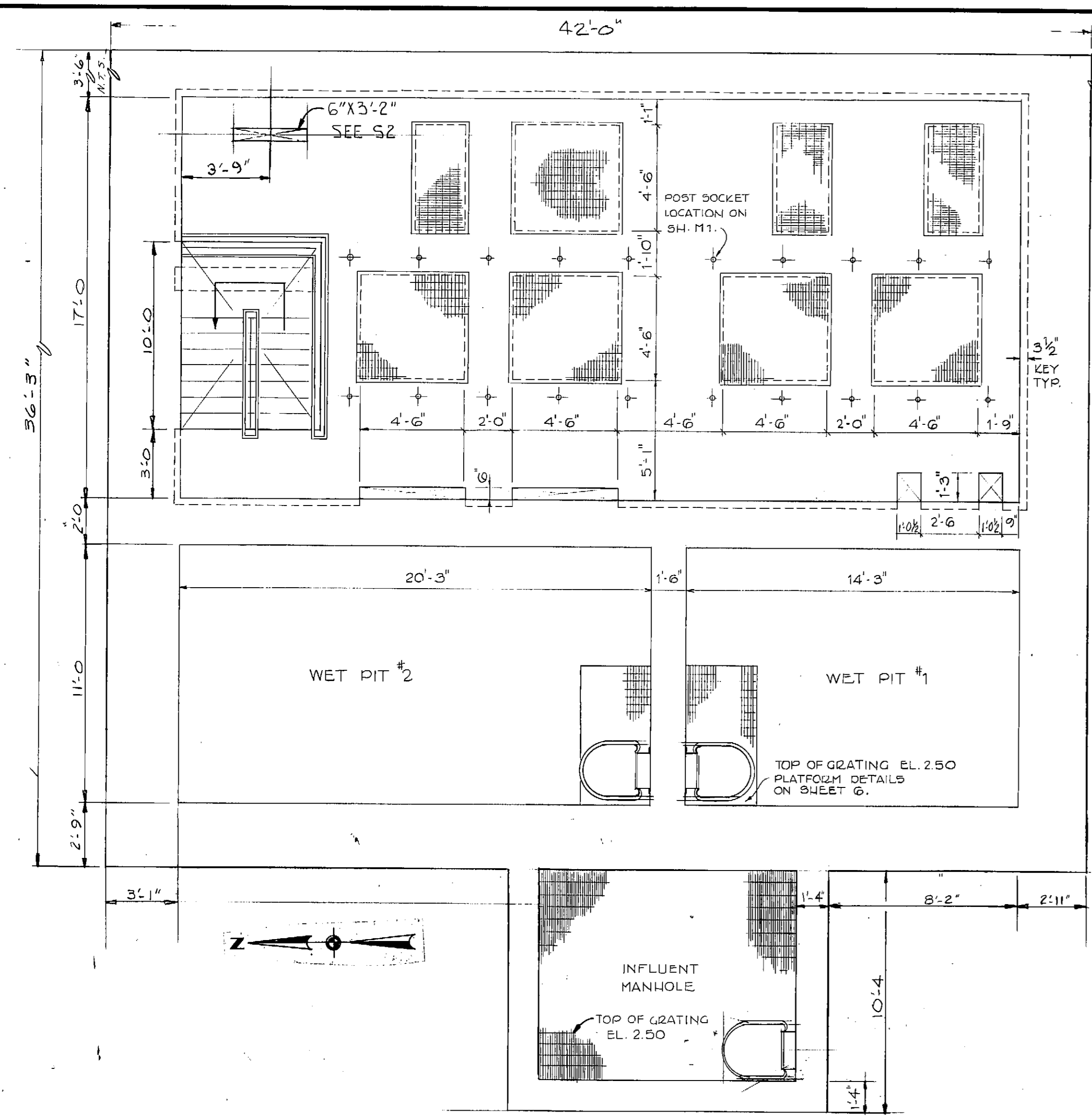


DESIGNED	R.W.S.	APPROVED	<i>[Signature]</i>
DRAWN	R.W.S.	SCALE	AS SHOWN
CHECKED	CL, JGS	DATE	APR. 1972
FILE	70 P 680.002-10129		

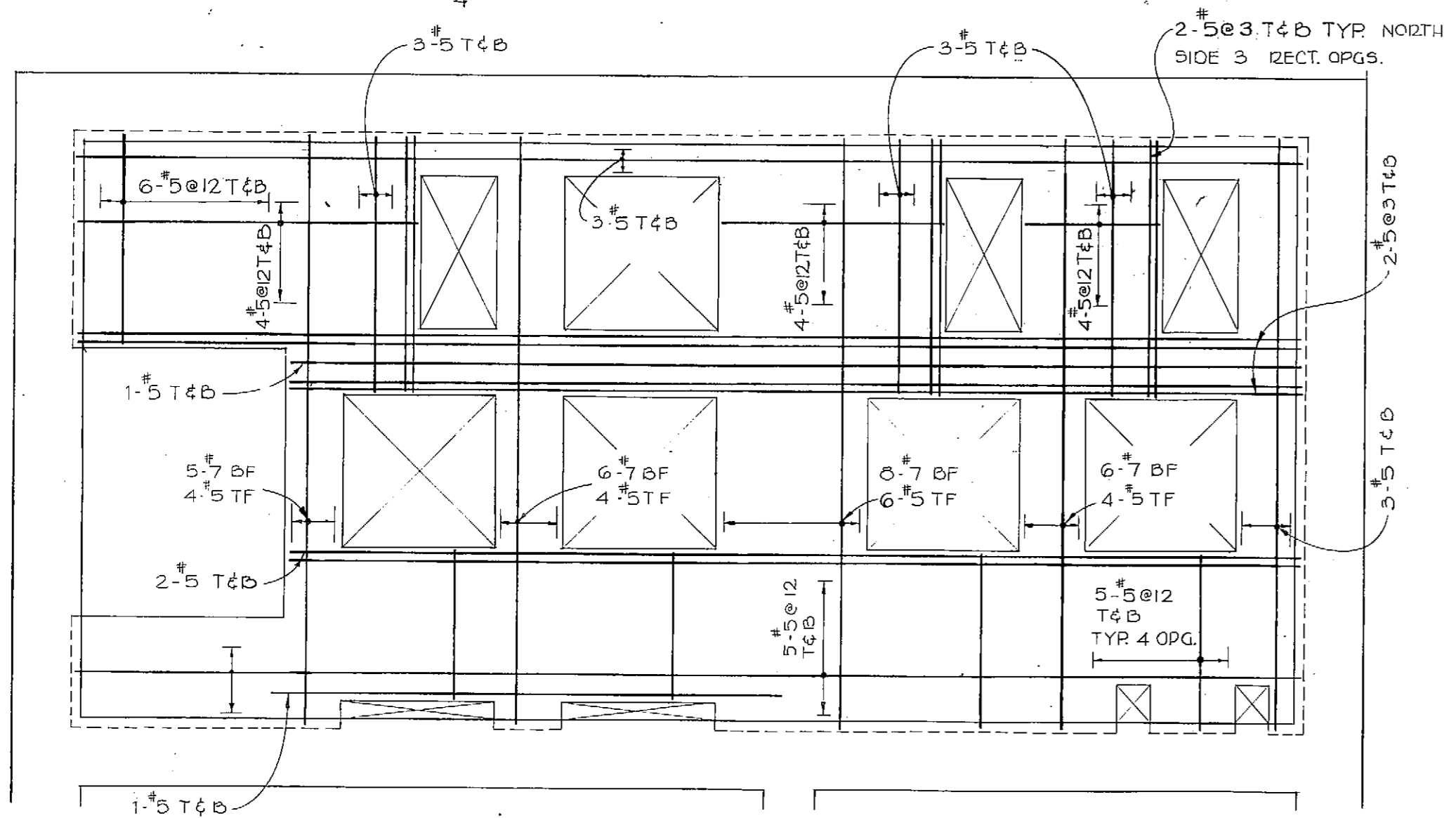
BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
CONTROL ROOM PLAN & DETAILS

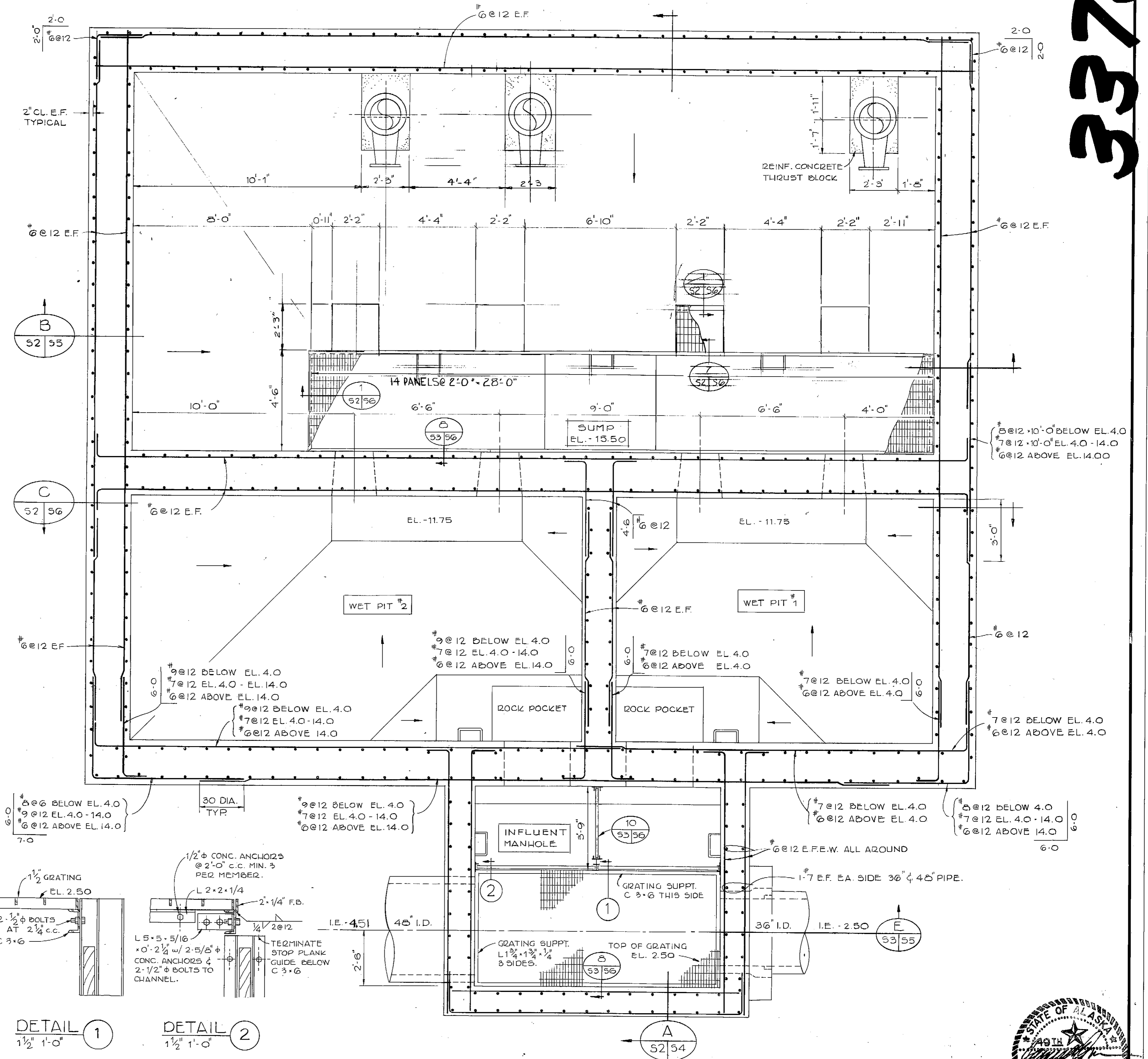


PLAN—MOTOR ROOM—EL. 7.62

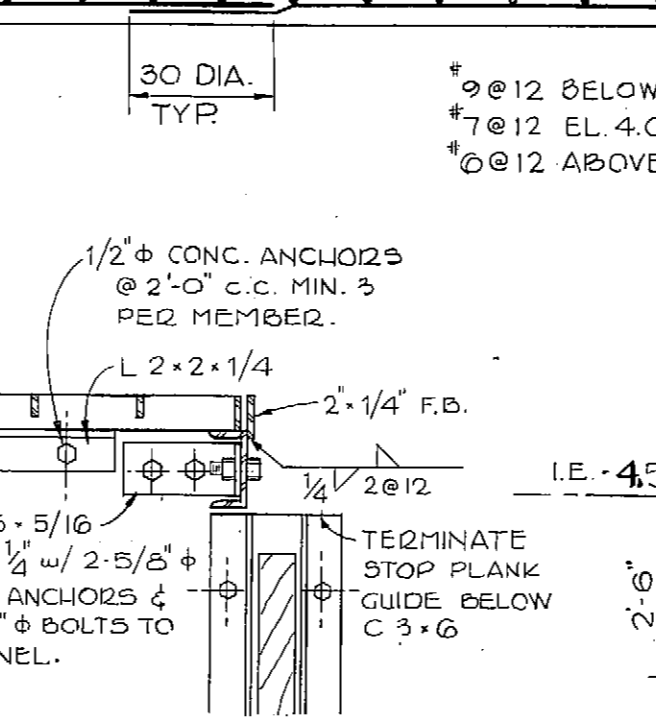
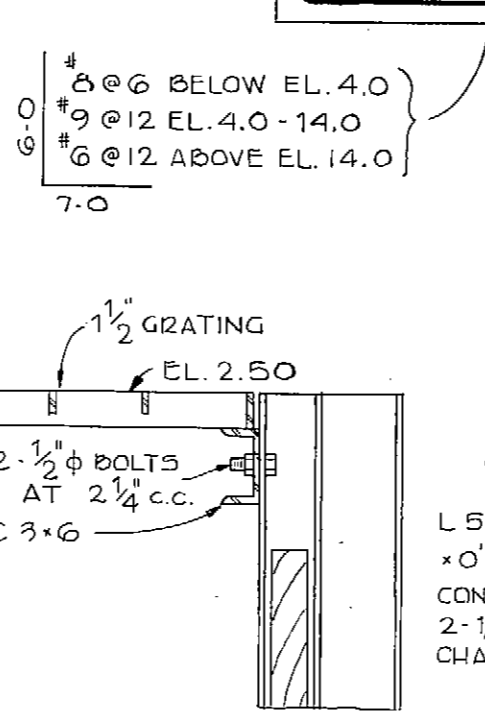


REINFORCING—MOTOR ROOM

NOTES: 1. HOOK ALL TOP BARS AT OPGS.
 2. SEE (B) FOR ADD. REINF.



PLAN SECTION EL. 1.00



DETAIL 1

DETAIL 2

DESIGNED R.W.S.	APPROVED <i>[Signature]</i>
DRAWN R.W.S.	SCALE AS SHOWN
CHECKED C.K. JGS	DATE APR. 1972
FILE TOP-080.002-10130	

REVISED AS CONSTRUCTED
 DATE 7-29-74

BOROUGH ENGINEERS
 A JOINT VENTURE
 TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

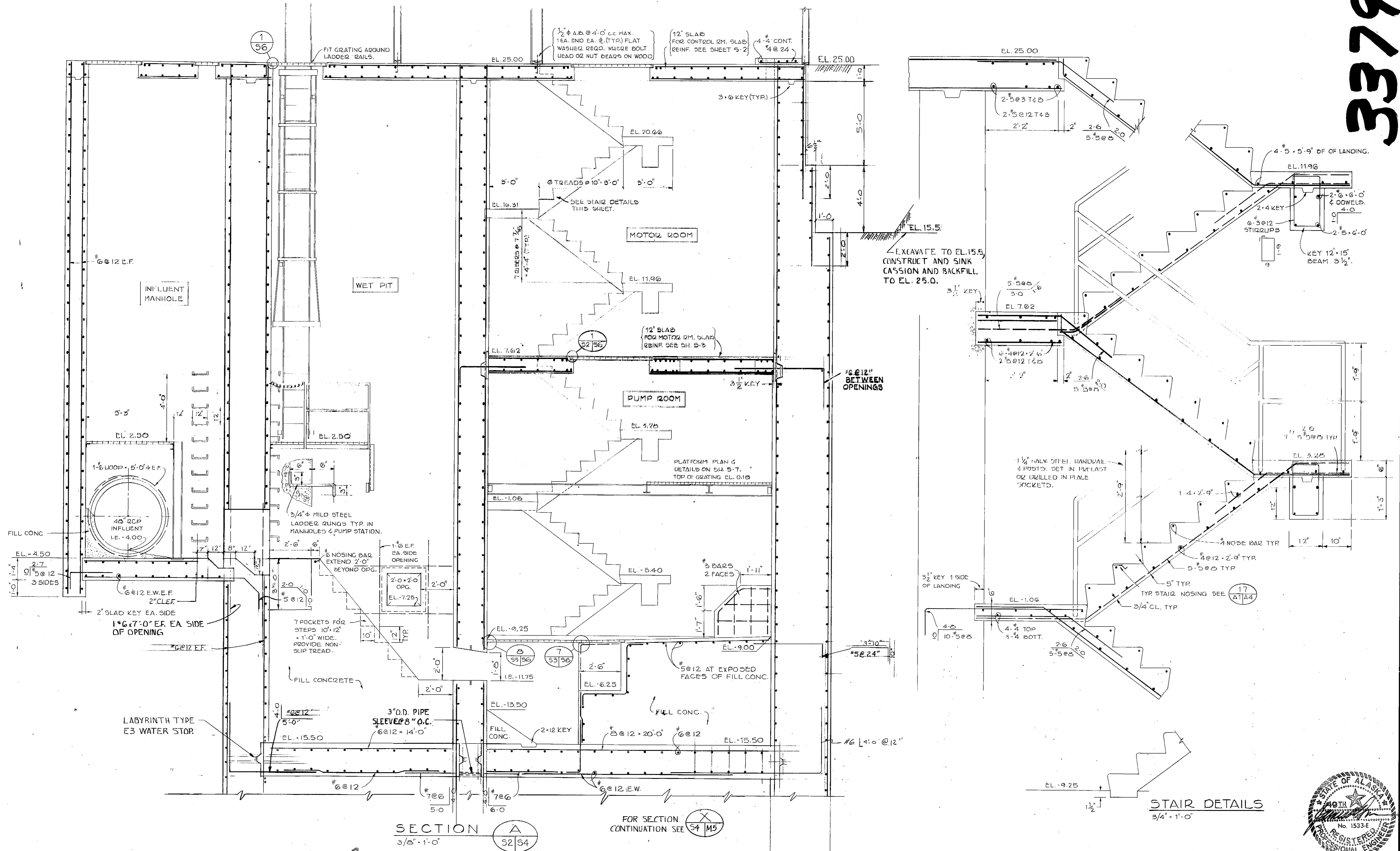
CAMPBELL CREEK PUMP STATION
PLANS & SECTIONS



3378

SHEET
53

3379



SECTION A
3/8" x 1'-0"

FOR SECTION CONTINUATION SEE S4 M5

STAIR DETAILS
3/4" x 1'-0"



DESIGNED	R.W.S.	APPROVED	<i>[Signature]</i>
DRAWN	R.W.S.	SCALE	AS SHOWN
DATE	7-29-74	FILE	70-P600.002-10131
NO.	1	REVISION	REVISED AS CONSTRUCTED
CHECKED	CK.JGS	DATE	APR. 1974

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

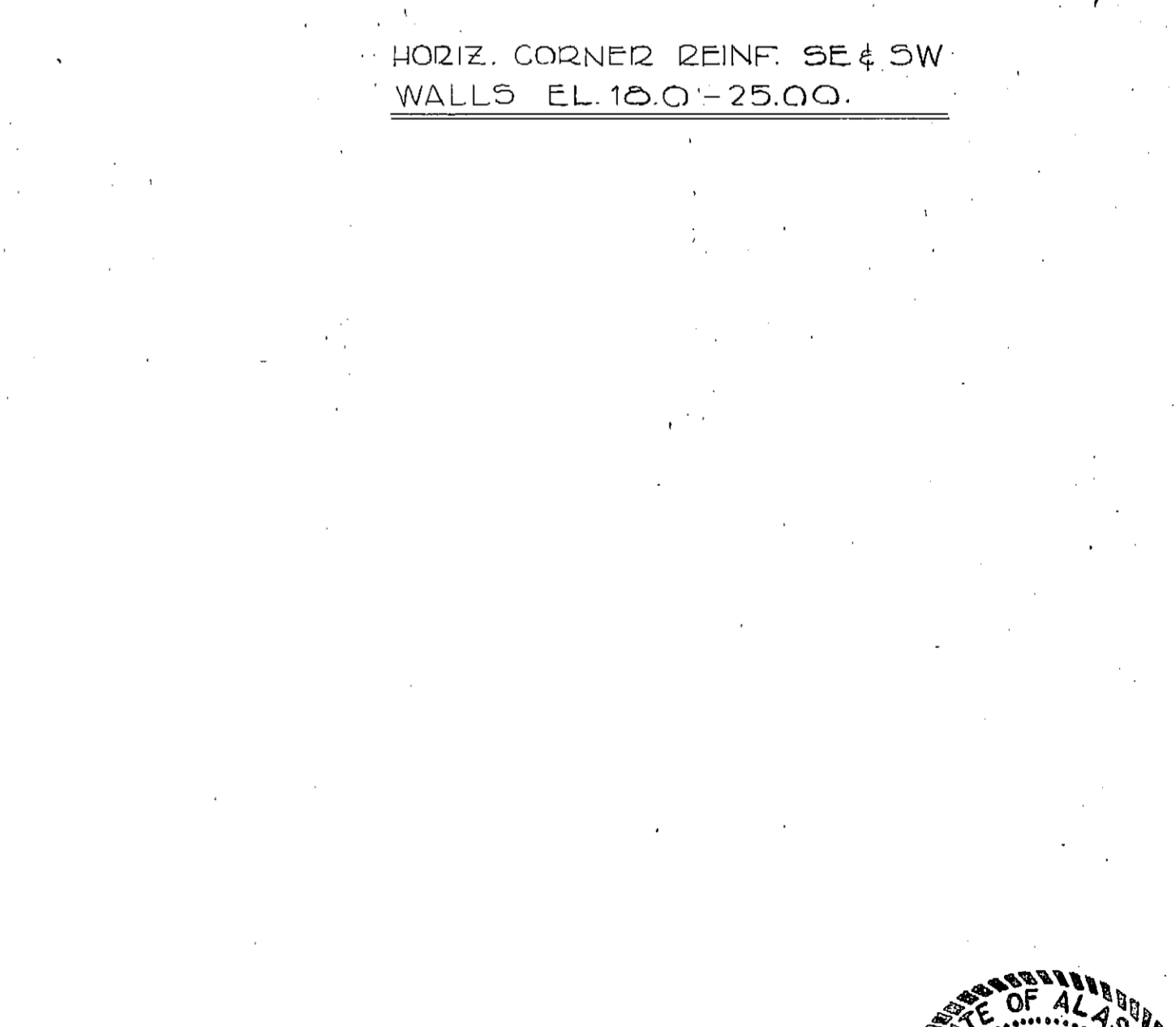
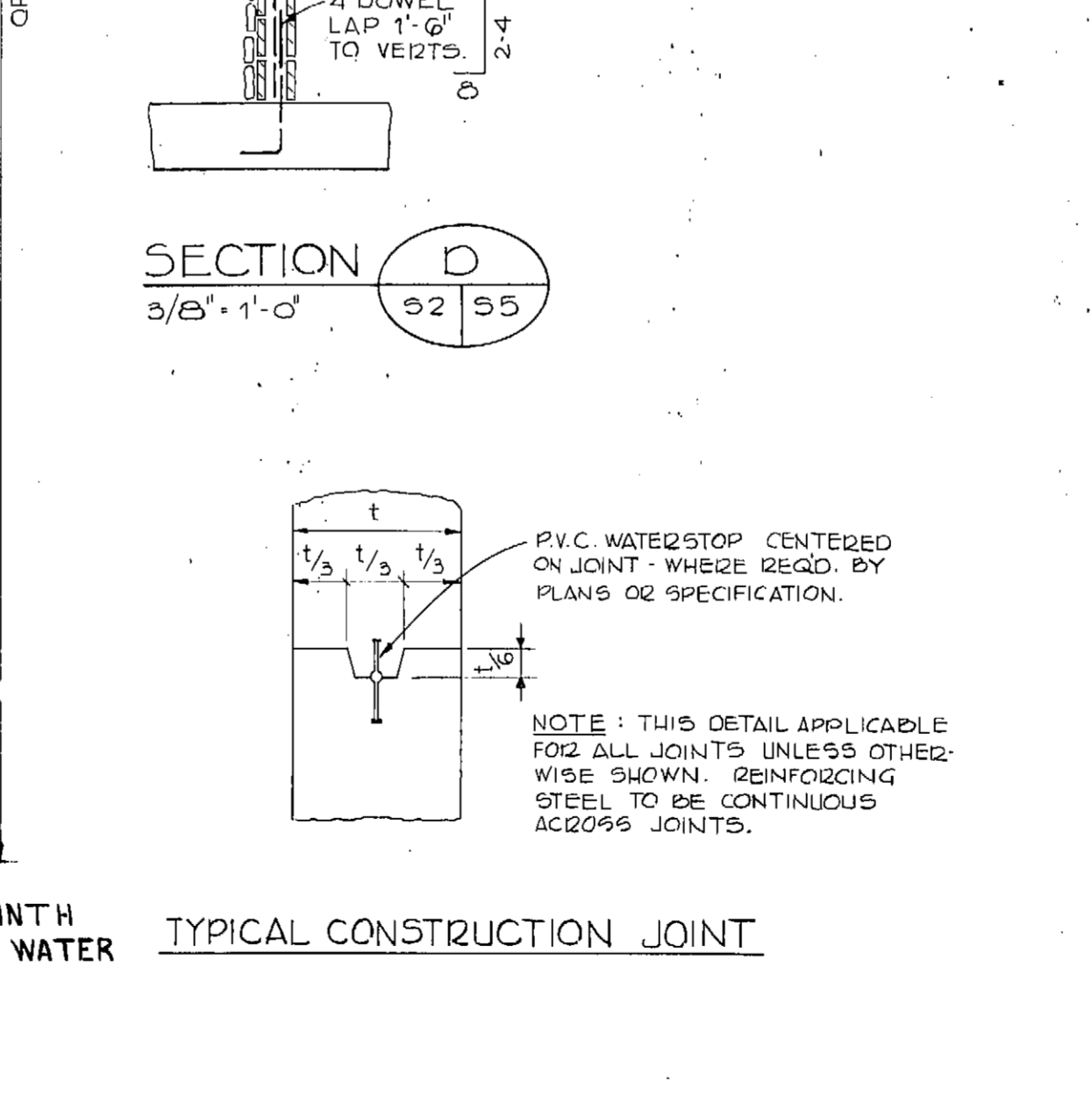
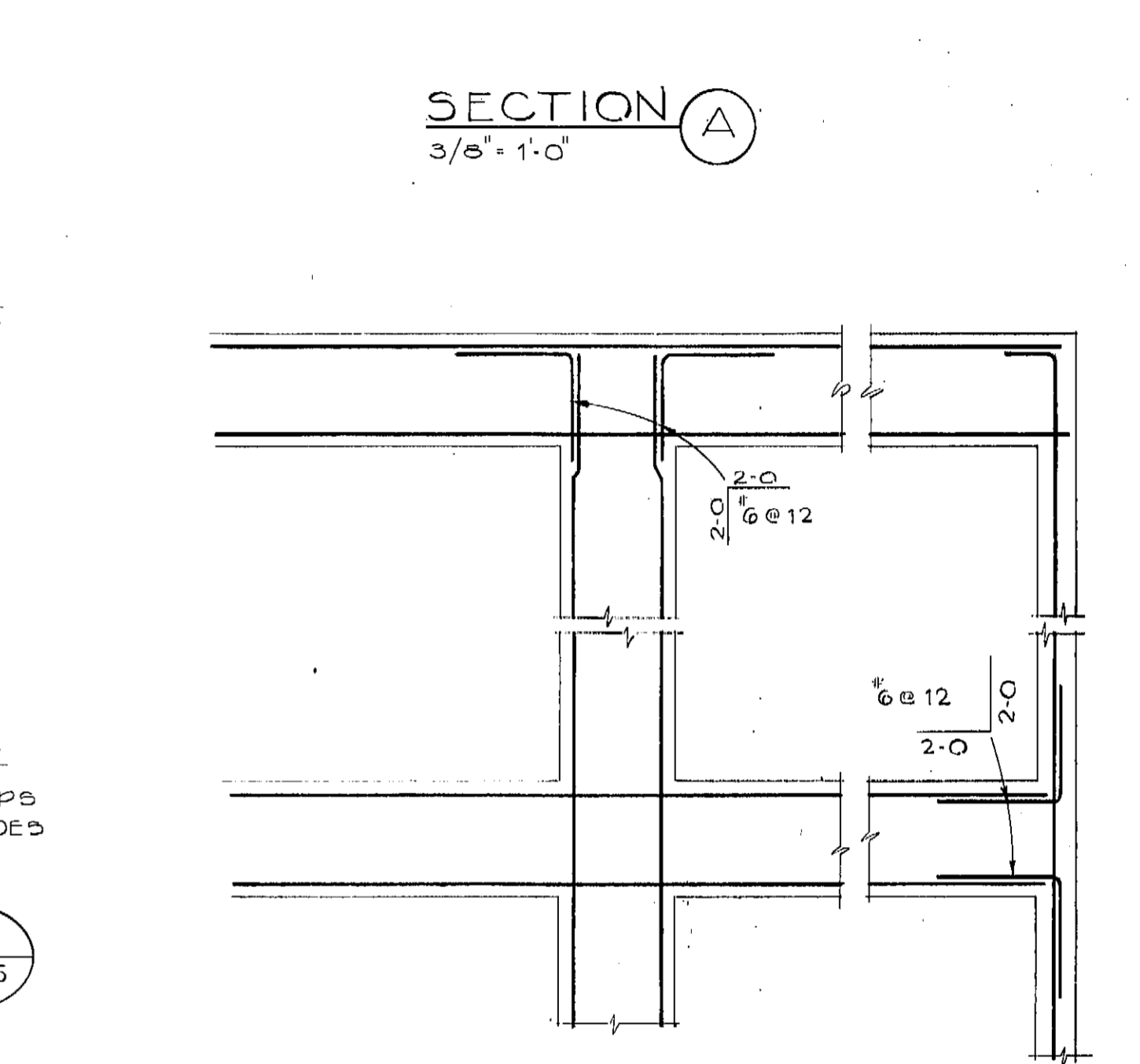
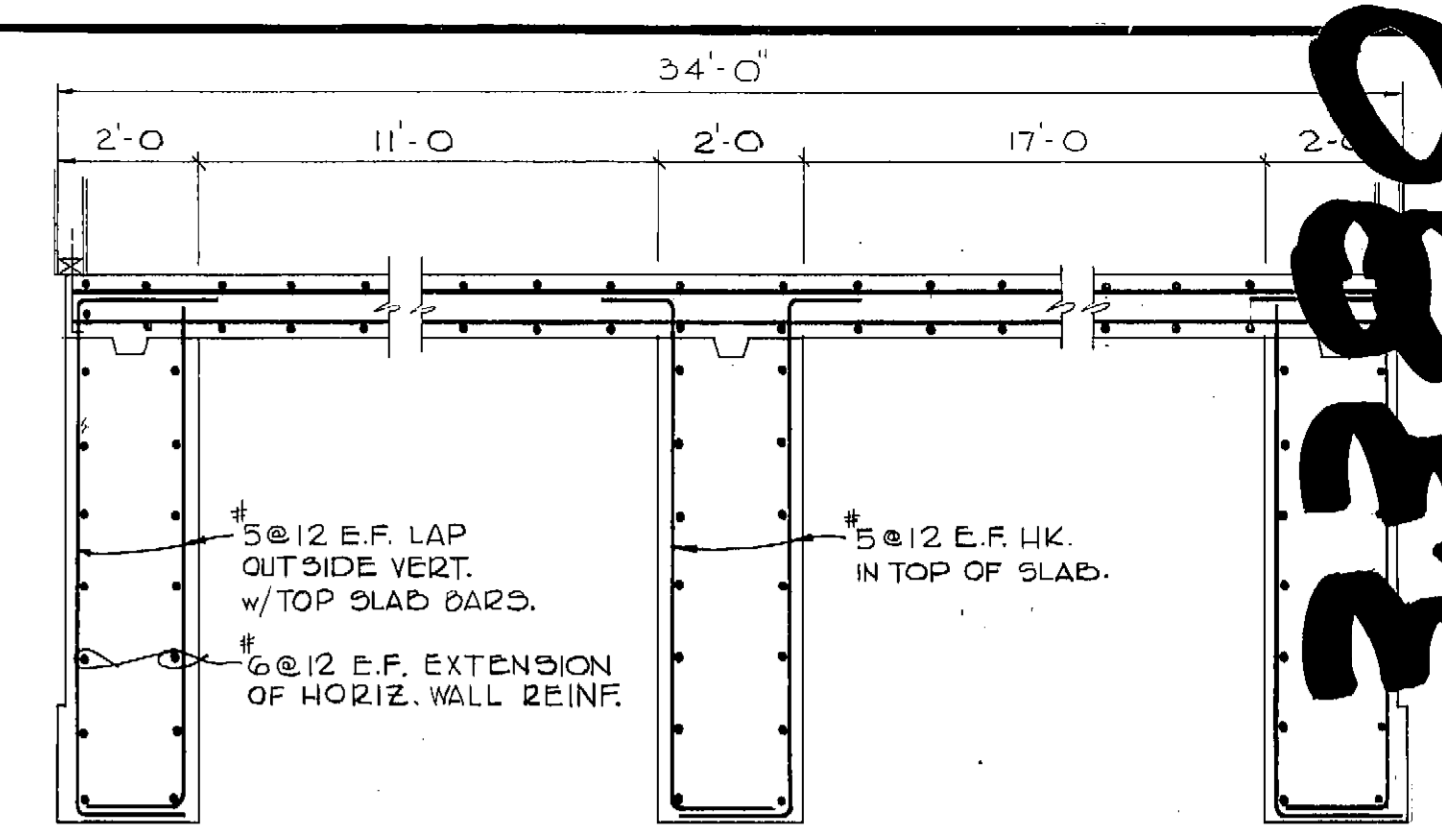
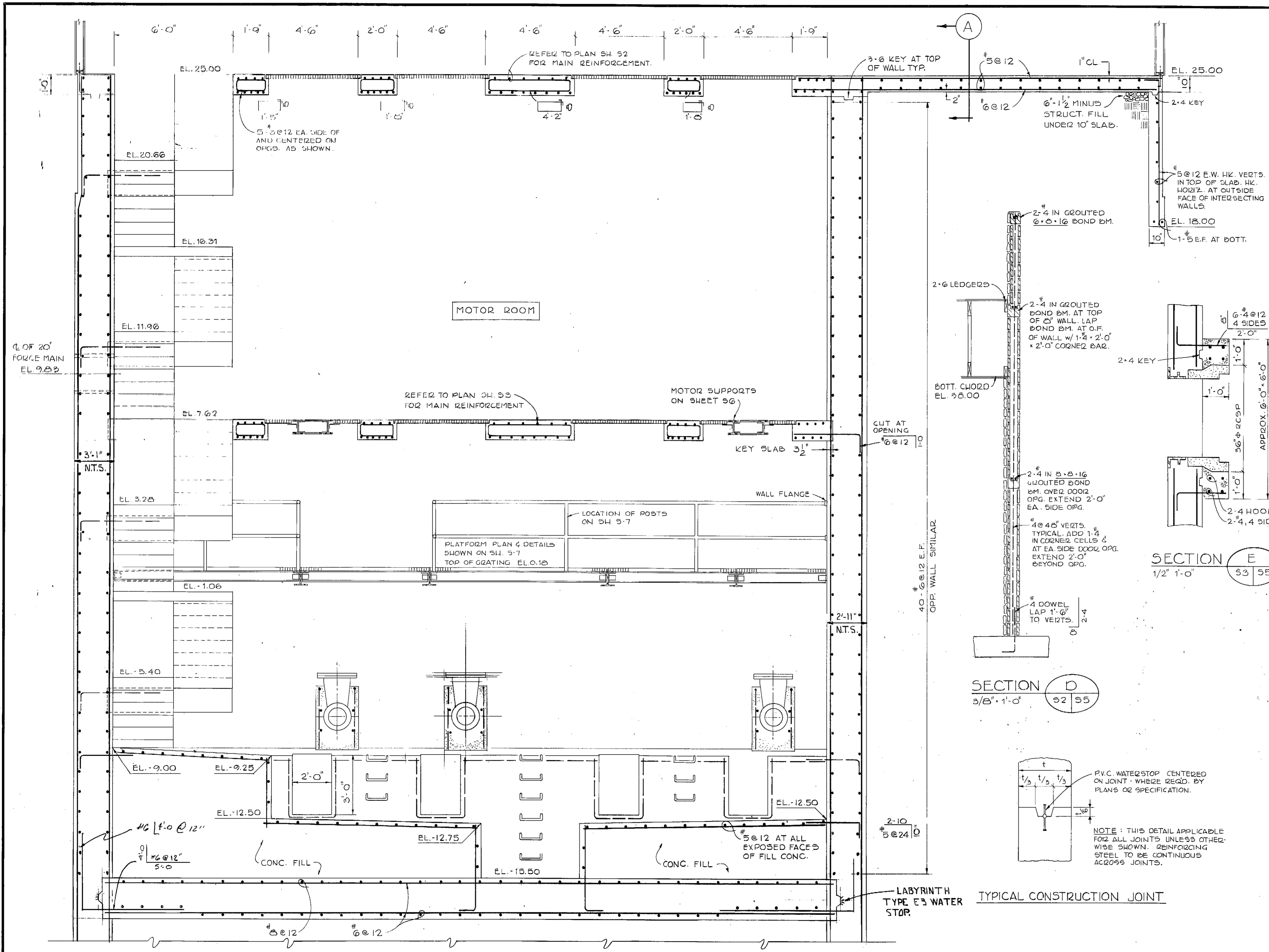


GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
SECTIONS

SHEET
S4
7

3380



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

NOTE: CONTINUATION IS SIMILAR TO X 54 M5

DESIGNED	R.W.S.	APPROVED	<i>[Signature]</i>
DRAWN	R.W.S.	SCALE	AS SHOWN
CHECKED	CK, JGS	DATE	APR. 1972
FILE	70-P600-10192		

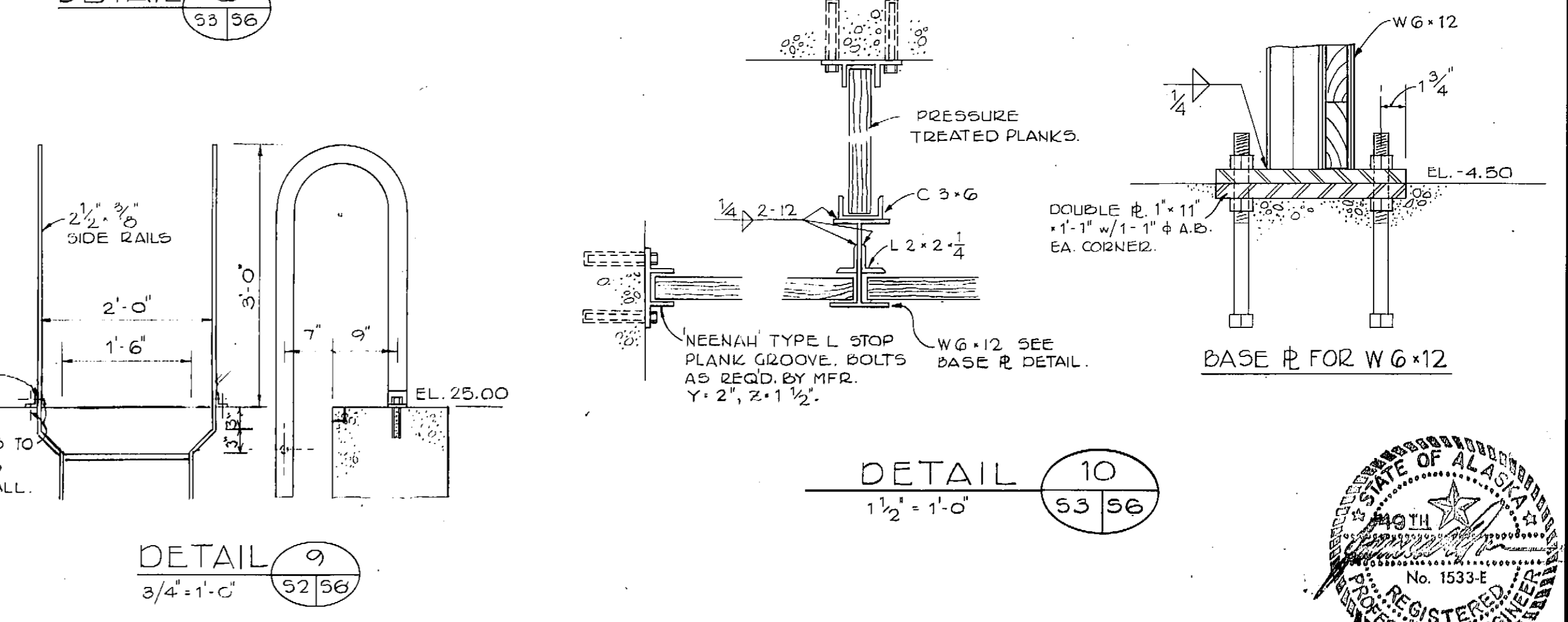
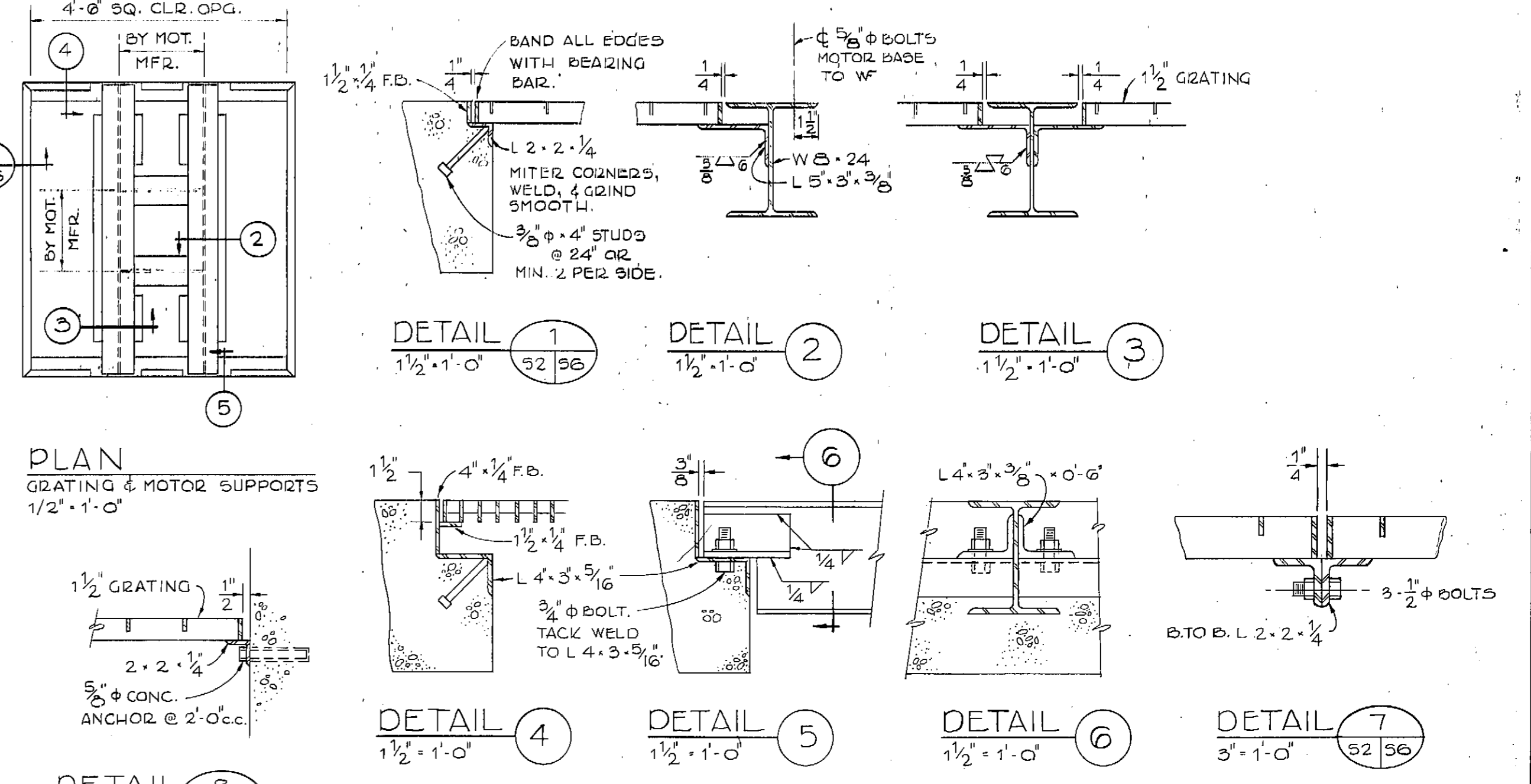
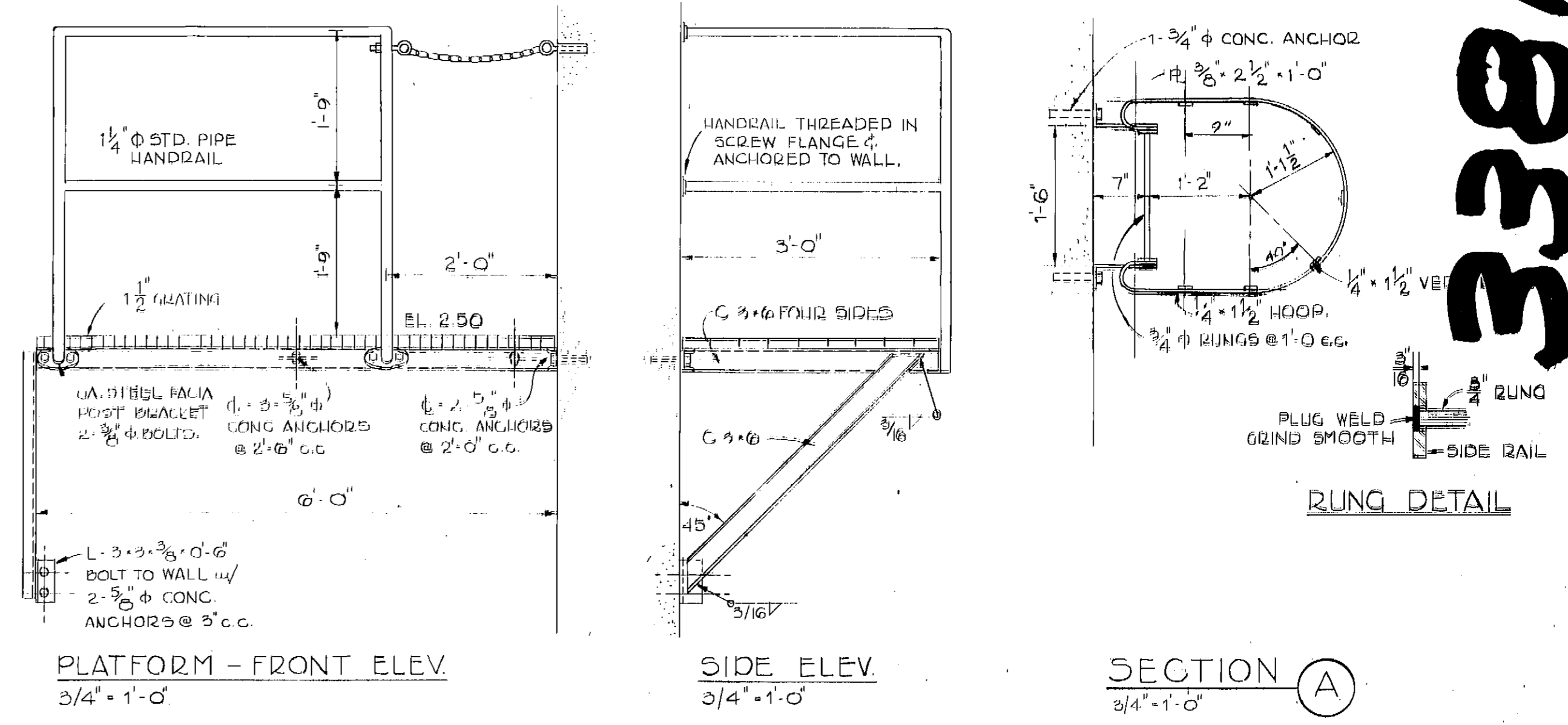
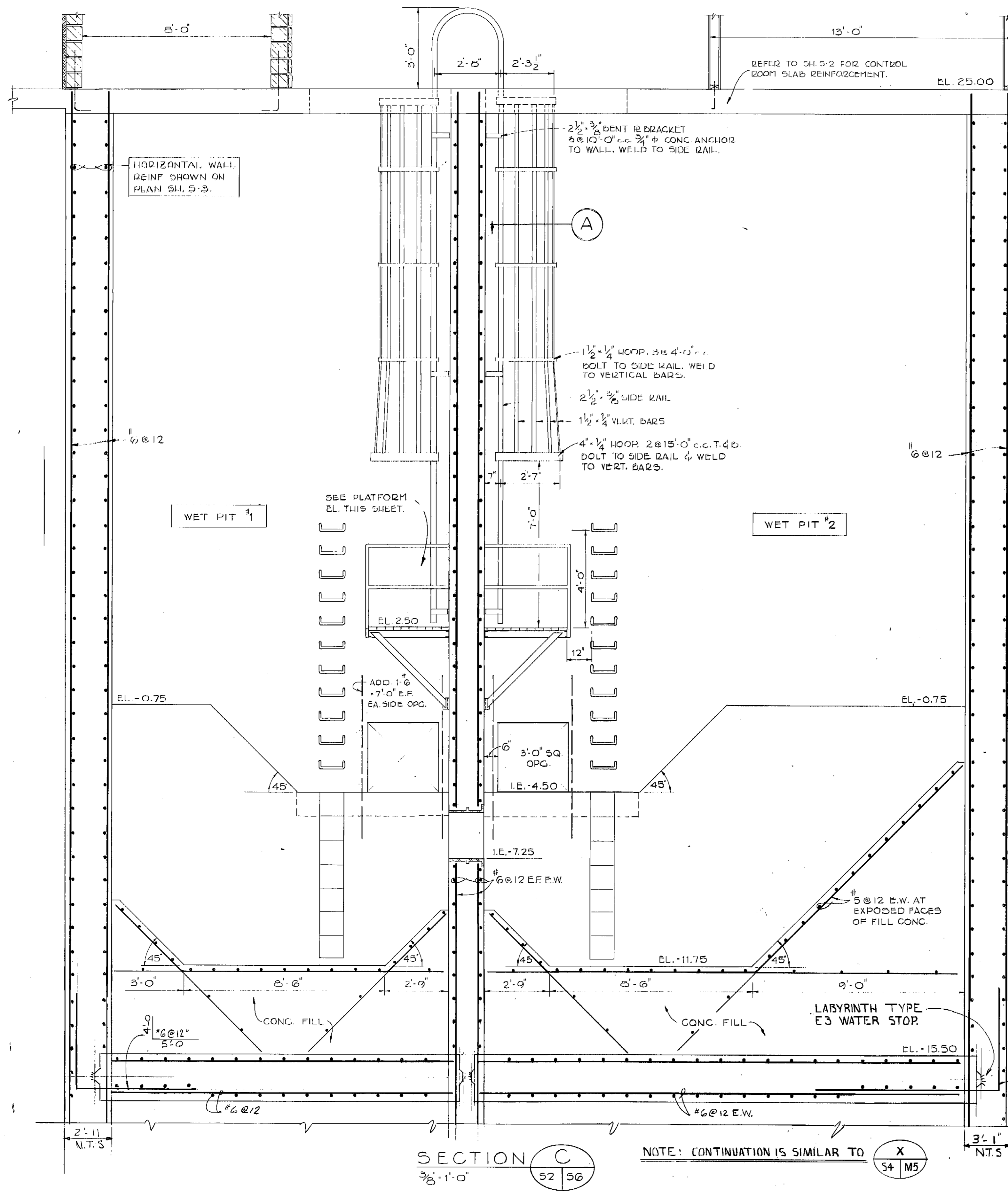
BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
SECTIONS



3381



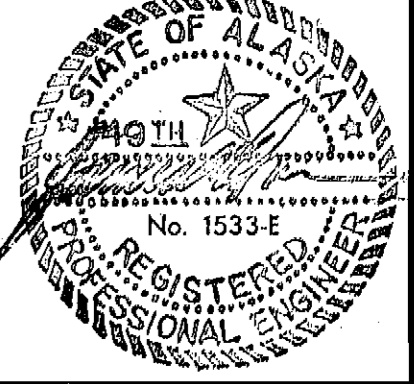
DESIGNED	R.W.S.	APPROVED	<i>[Signature]</i>
DRAWN	R.W.S.	SCALE	AS SHOWN
CHECKED	CK, JGS	DATE	APR 27 1972
FILE	70-P-680-10133		

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



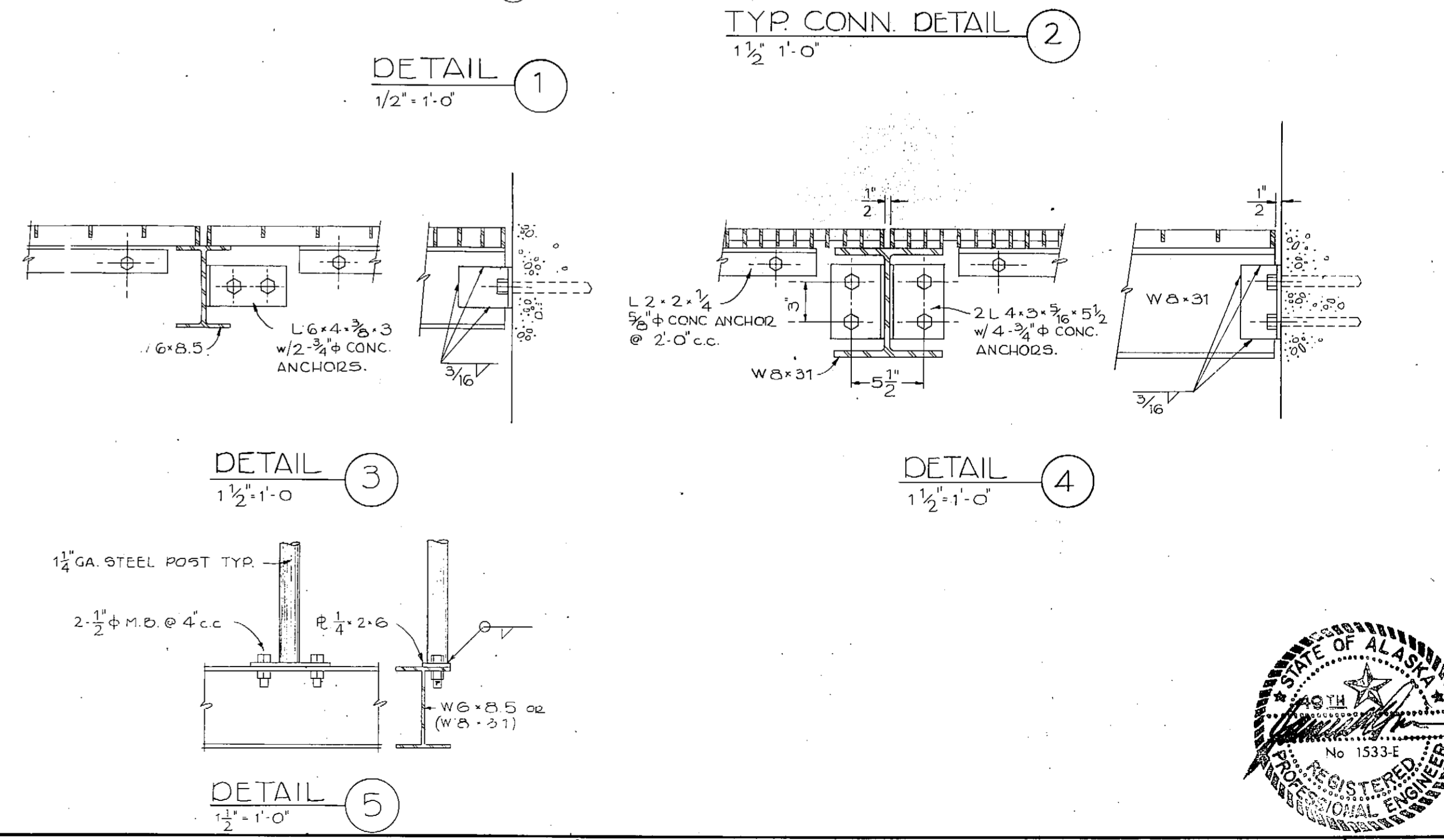
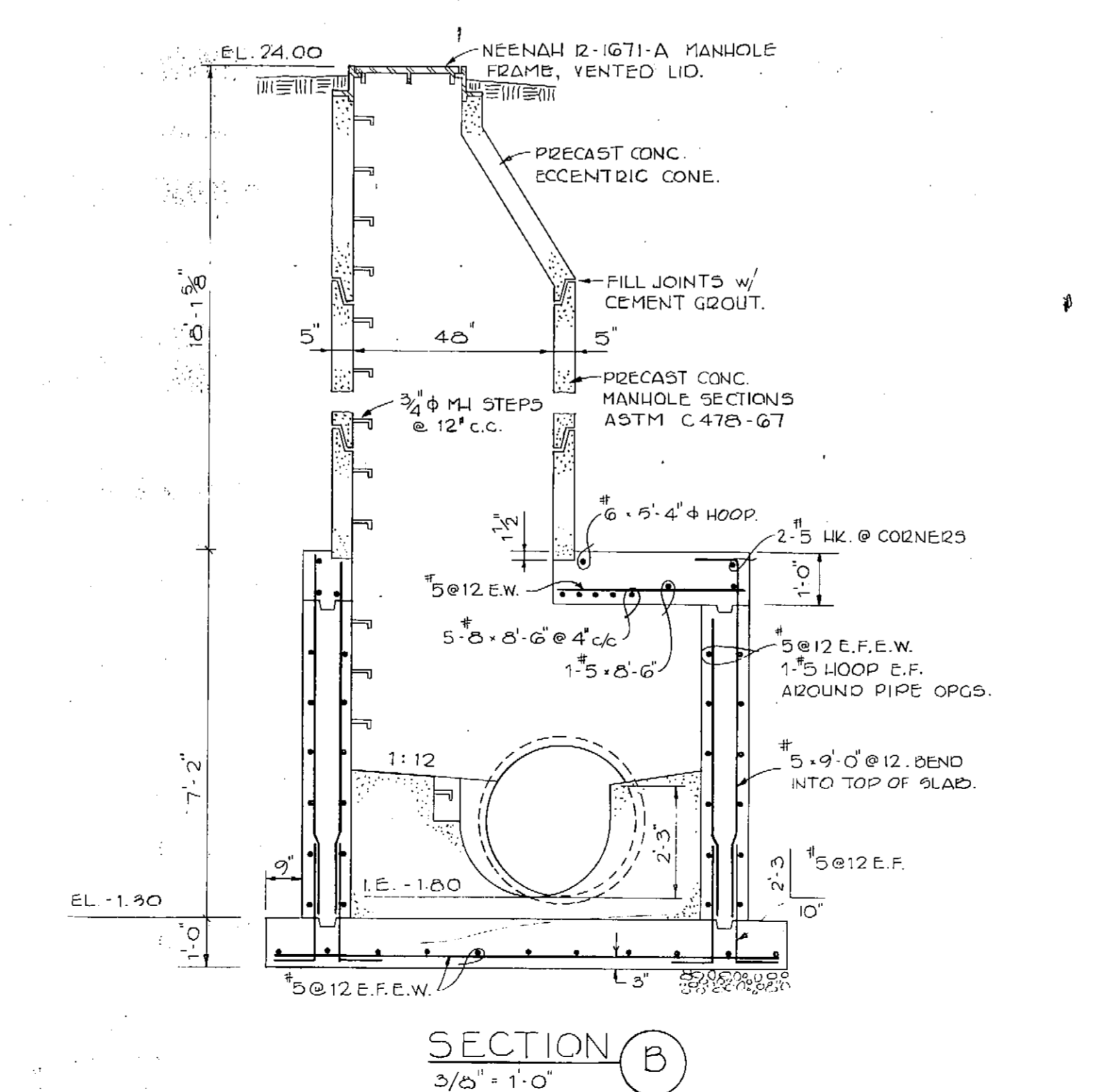
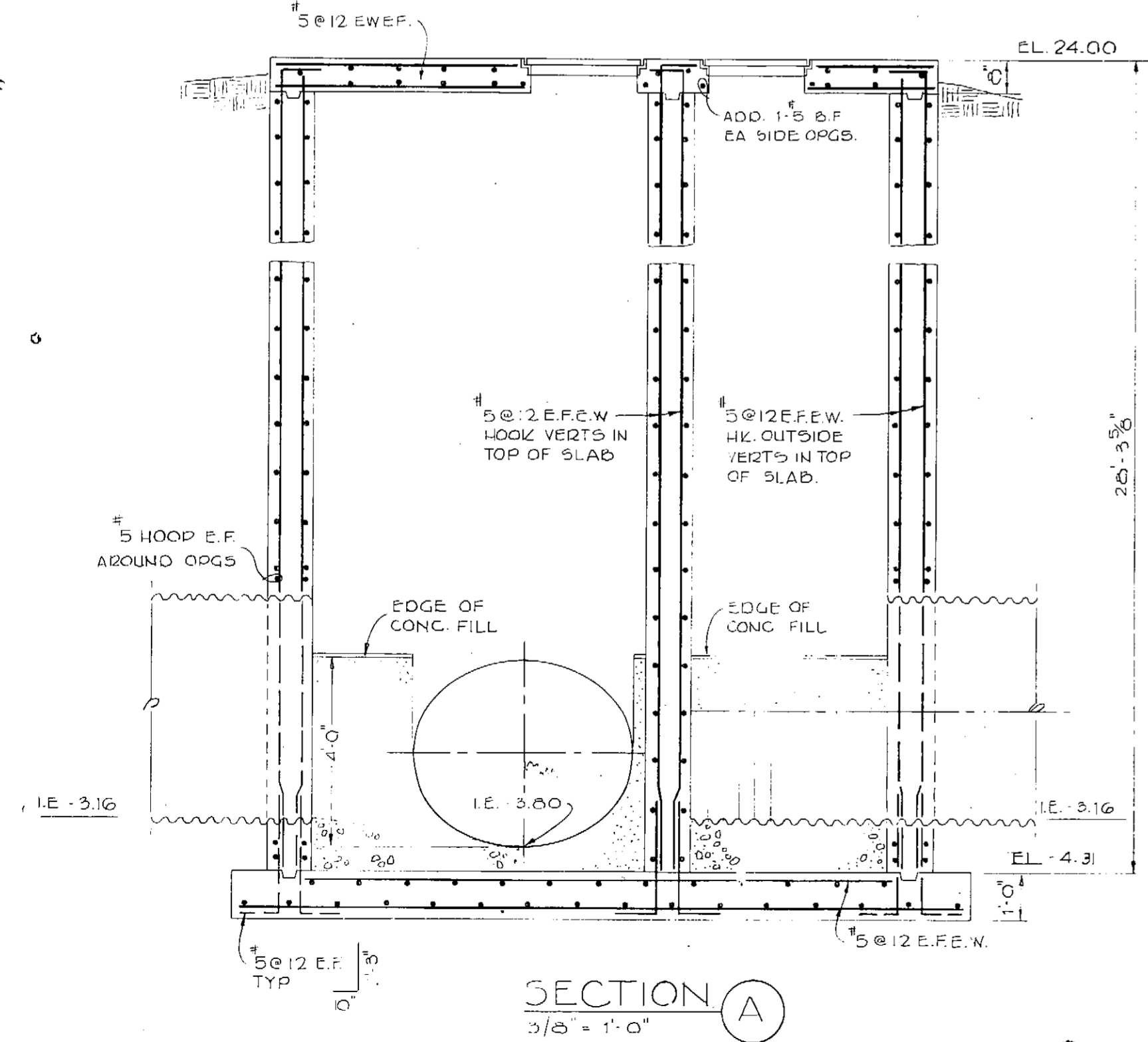
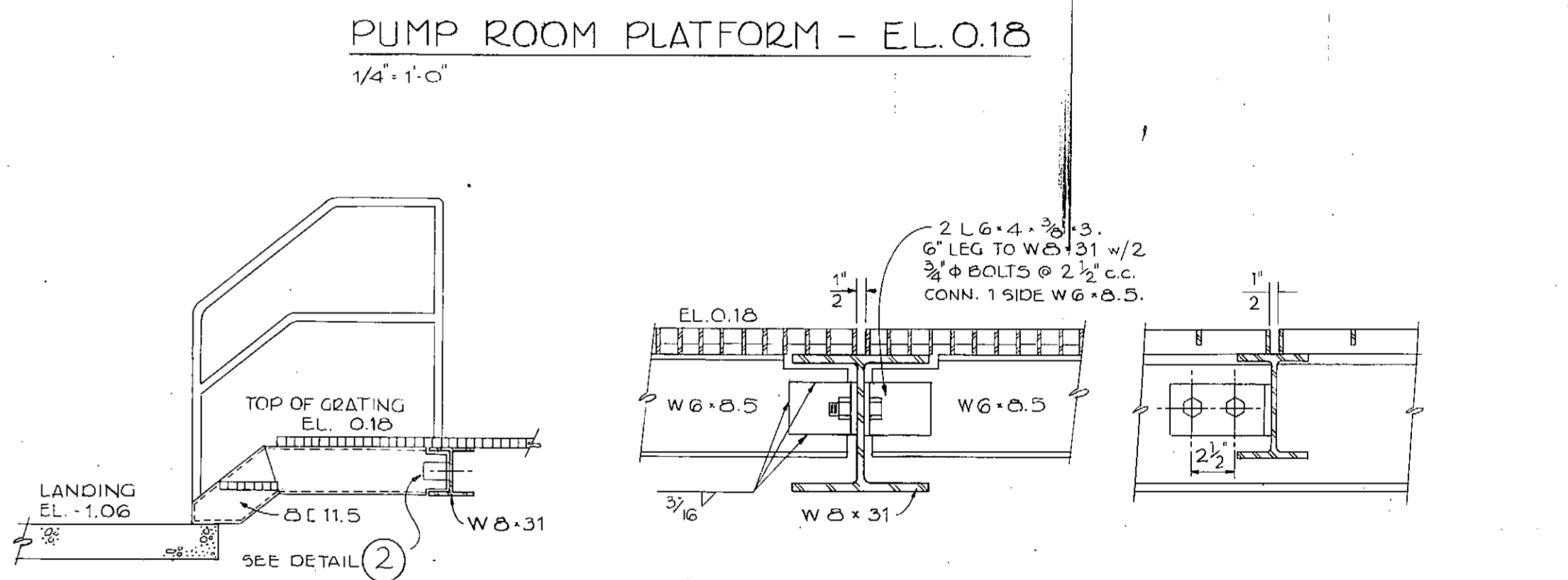
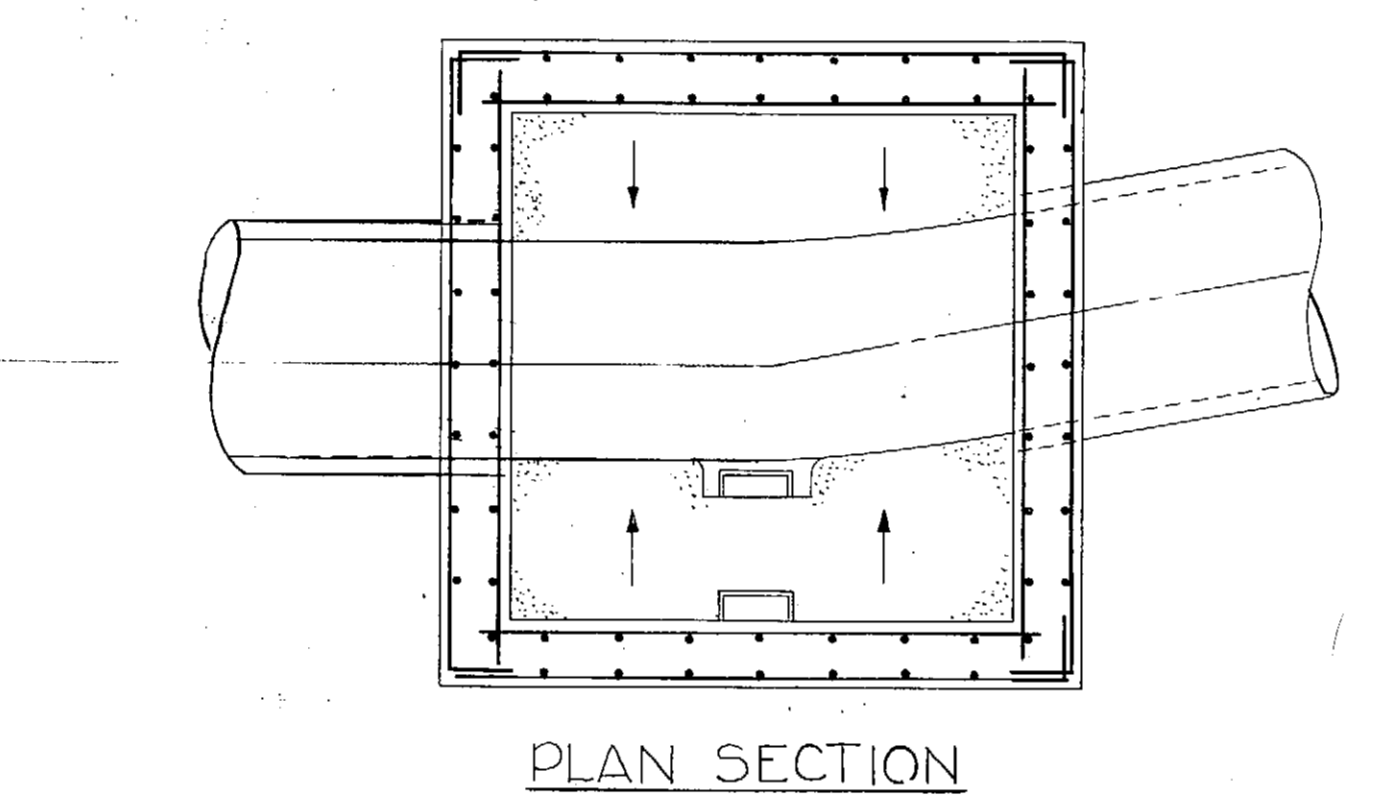
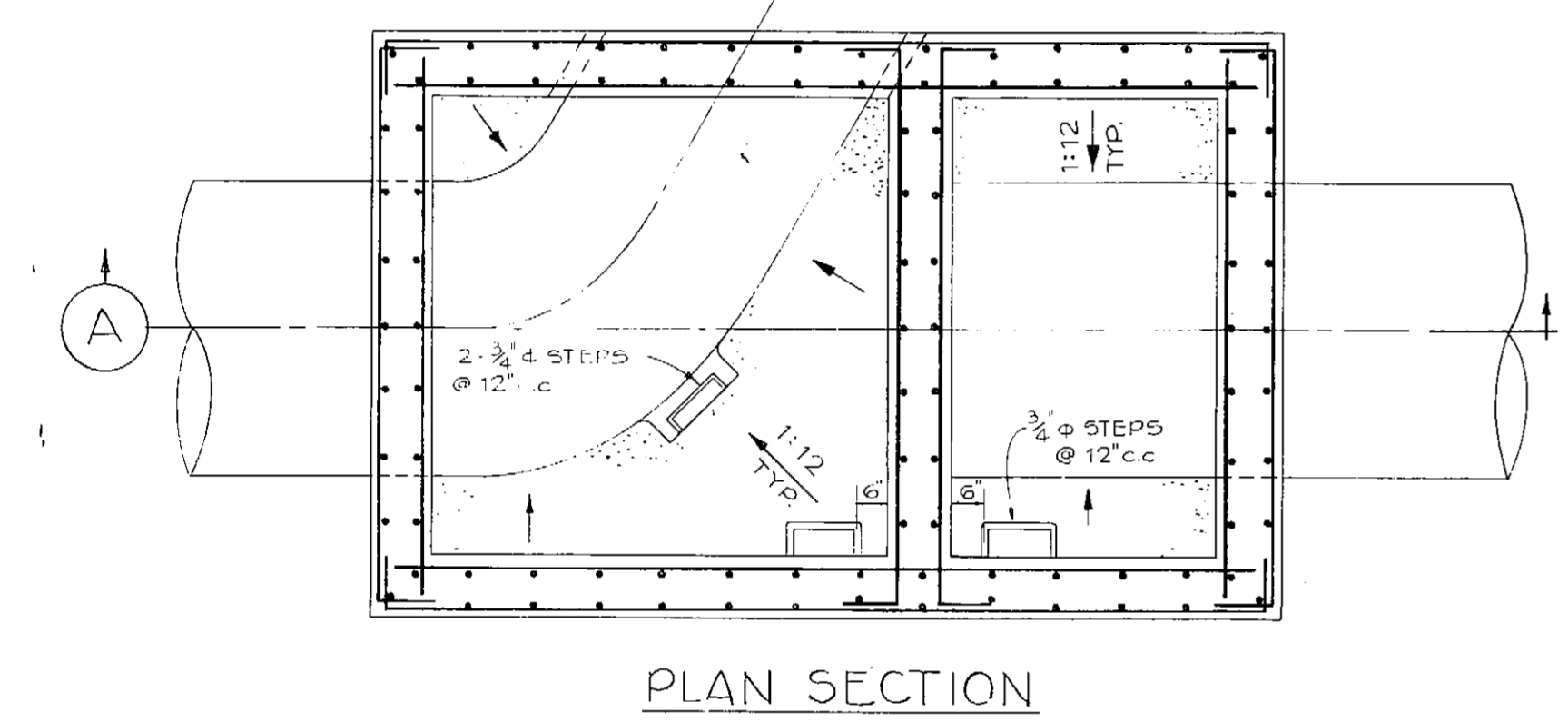
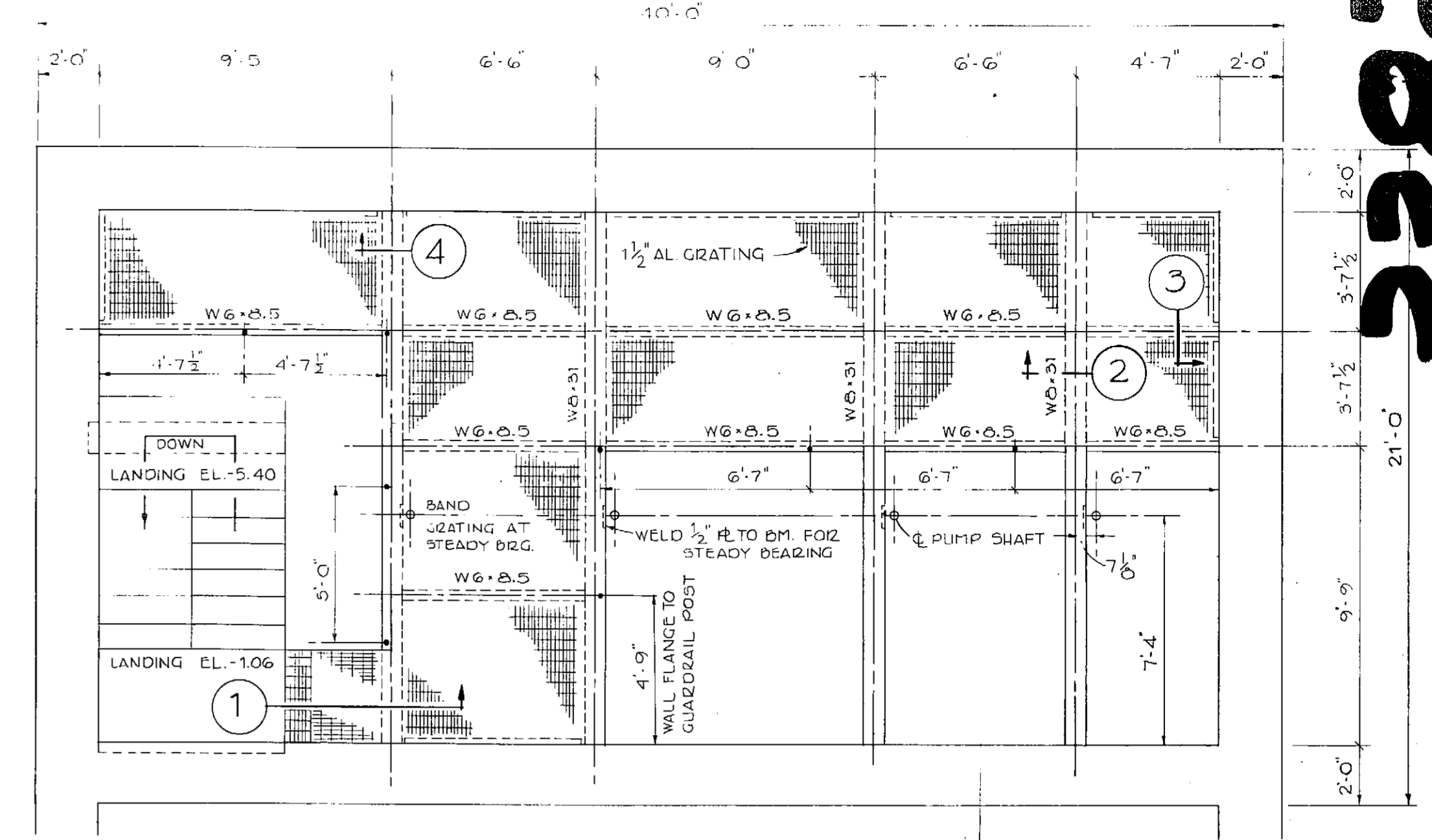
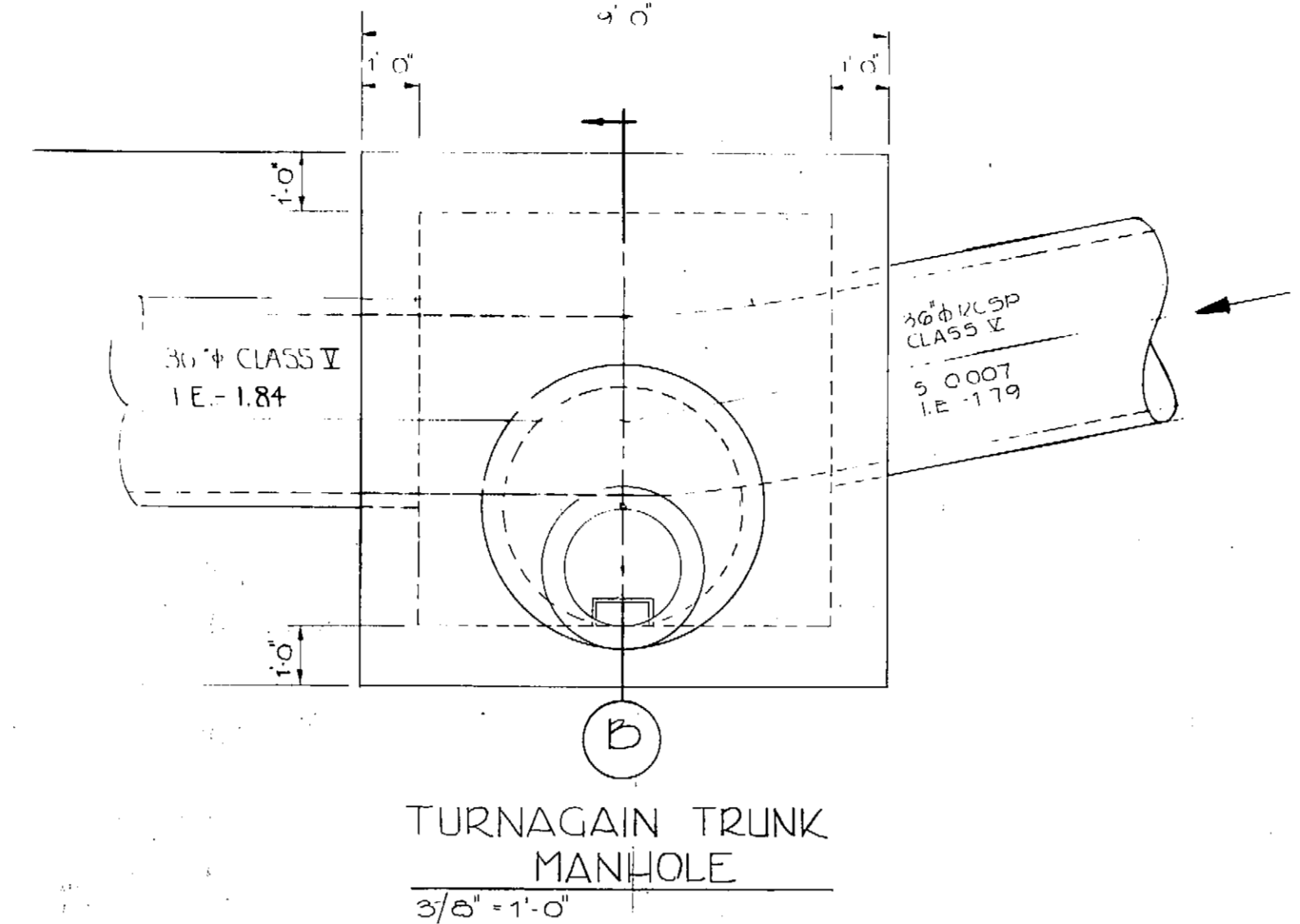
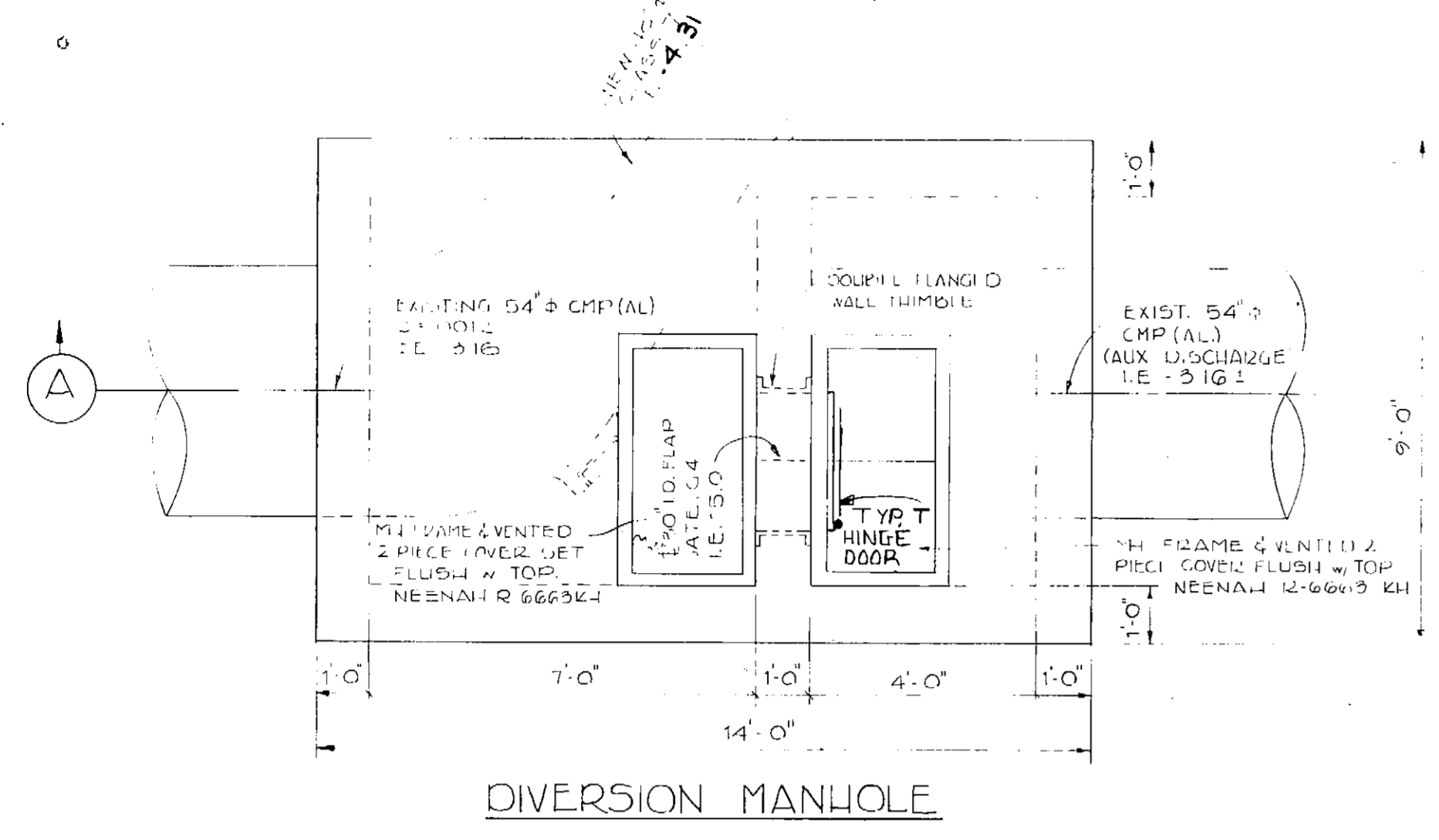
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
SECTIONS & DETAILS



SHEET
S6
7

3383



DESIGNED LKA, RWS
DRAWN KWS
CHECKED J.S. HWT
DATE 7-29-74
NO. 1
REVISIONS
REVISED AS CONSTRUCTED

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

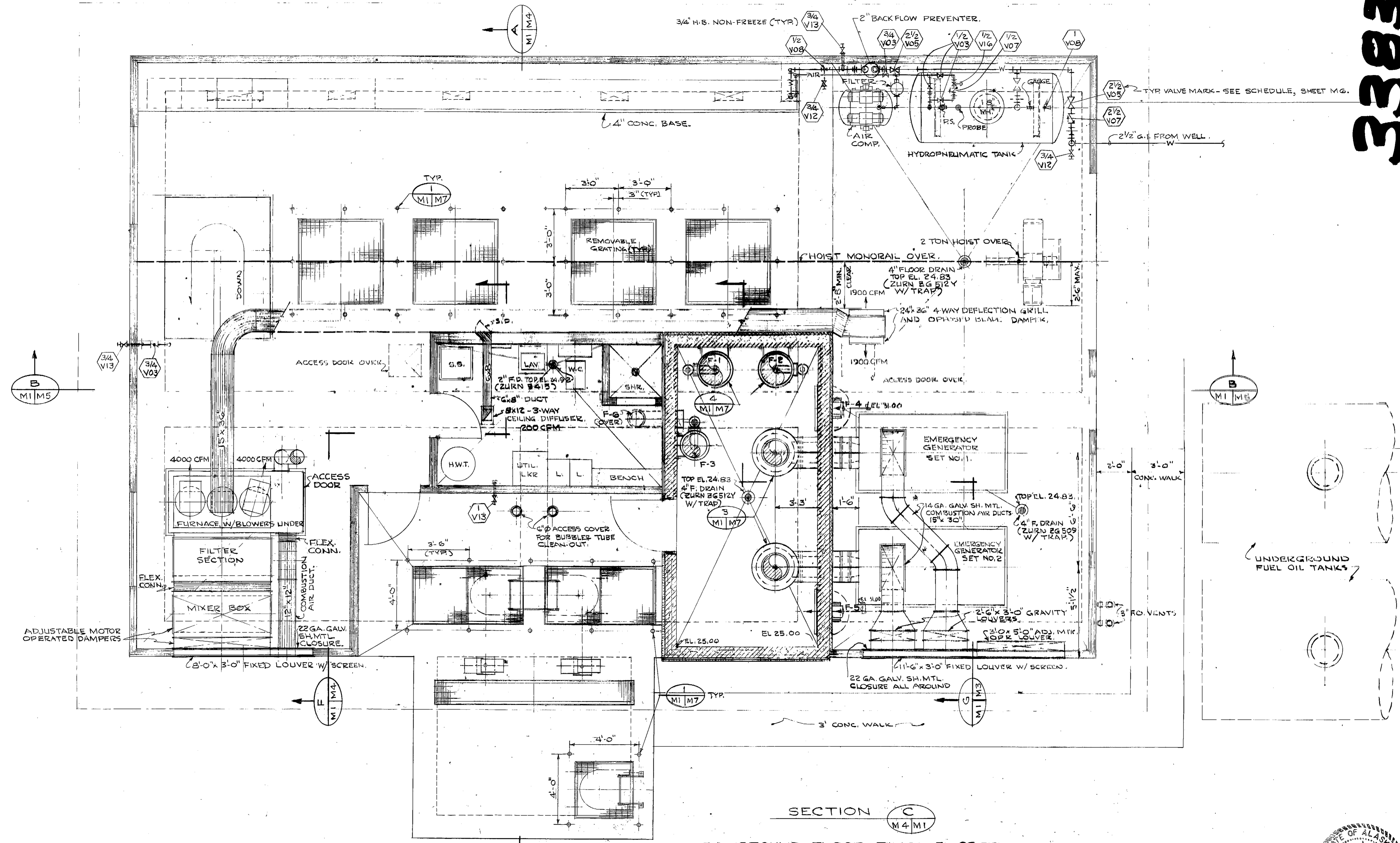
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
MANHOLE DETAILS & PUMP ROOM PLATFORM



SHEET
S7
7

3383



SECTION C
M4 M1
GROUND FLOOR PLAN - EL 25.00

DESIGNED LKA	APPROVED <i>[Signature]</i>
DRAWN MOS	SCALE 3/8" = 1'-0" DATE APR. 1972
CHECKED HWT	FILE 70-P680-10135
7-29-74	1
DATE NO.	REVISION
	REVISED AS CONSTRUCTED

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

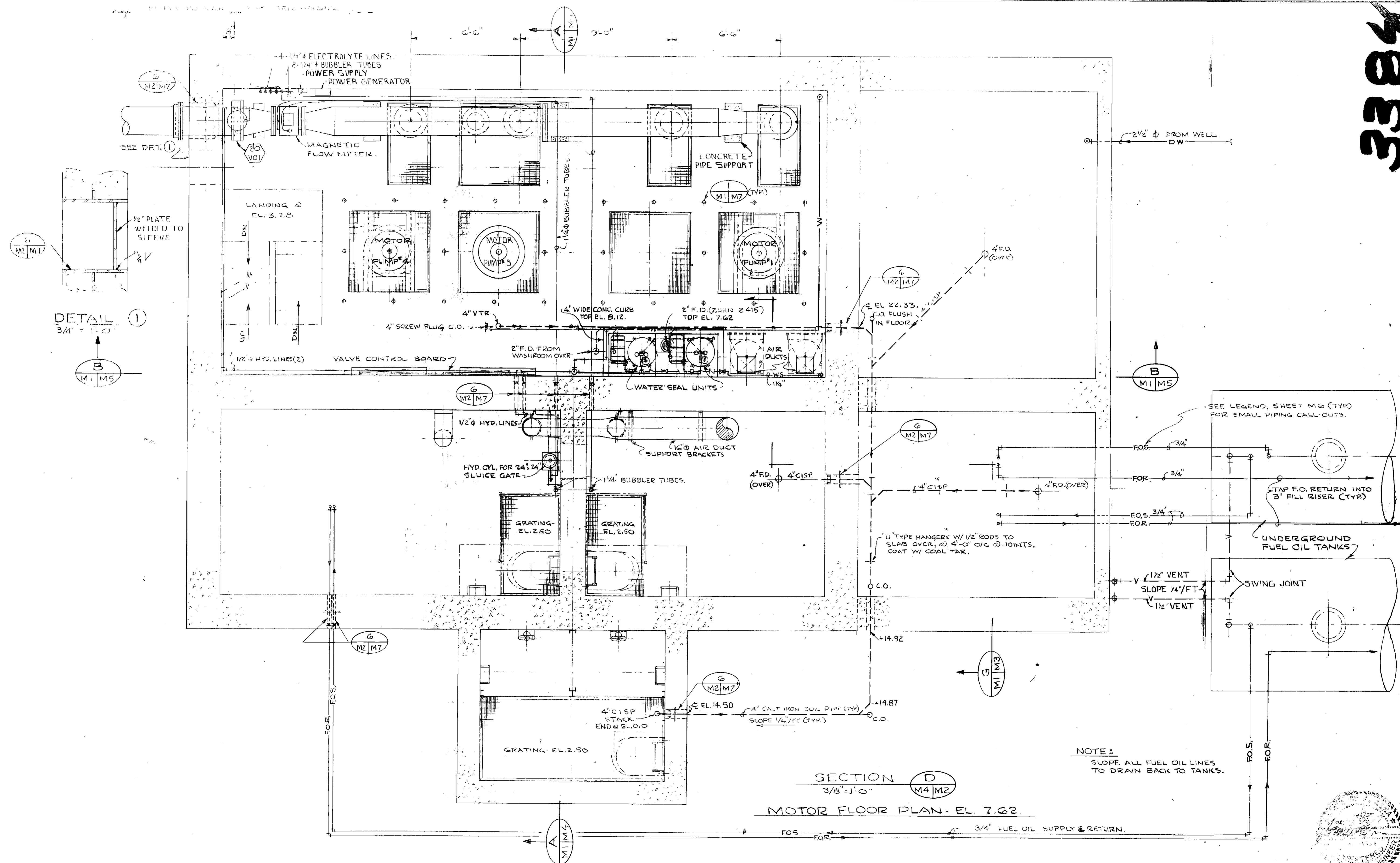


GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
CONTROL ROOM PLAN



SHEET
M1
7



NOTE:
SLOPE ALL FUEL OIL LINES
TO DRAIN BACK TO TANKS.

SECTION D
3/8" x 1'-0"
MOTOR FLOOR PLAN - EL. 7.62.

DESIGNED	LKA	APPROVED	[Signature]
DRAWN	MOS	SCALE	AS SHOWN
CHECKED	HWT	DATE	APR., 1972
FILE	70-P-680-10136		

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

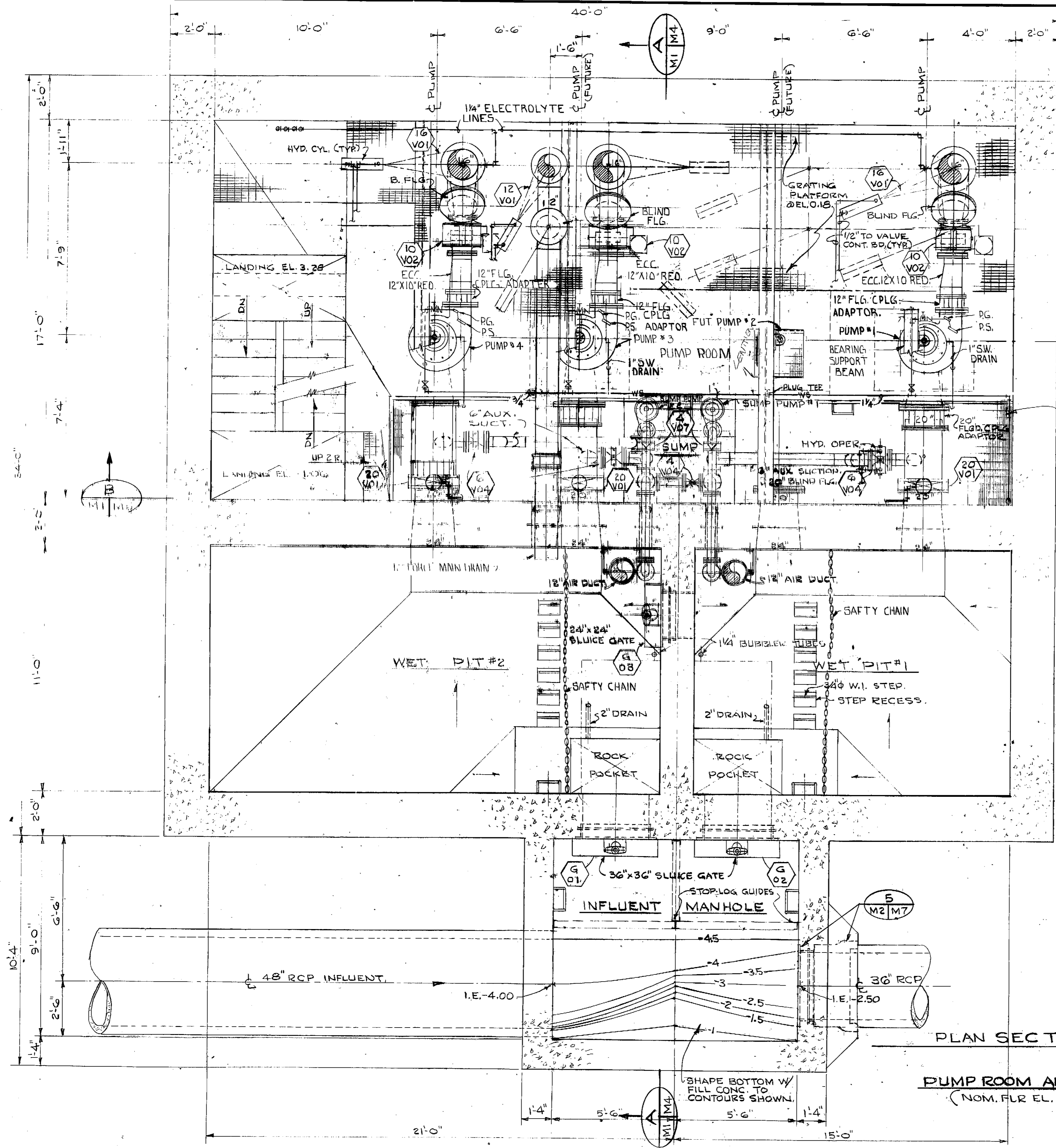


GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

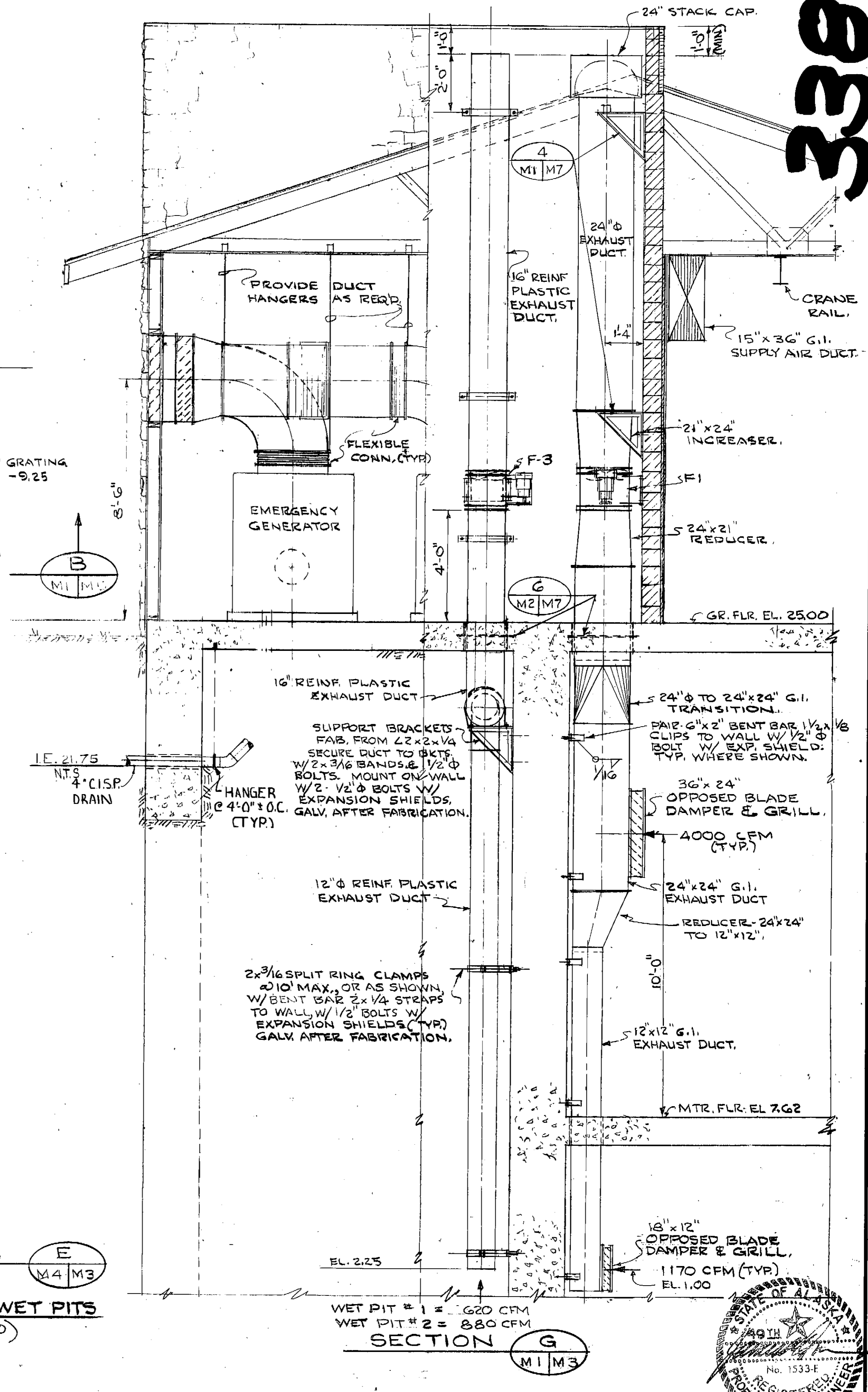
CAMPBELL CREEK PUMP STATION
MOTOR ROOM PLAN

SHEET
M2
7

3386



PLAN SECTION E
M4 M3
PUMP ROOM AND WET PITS
(NOM. FLR. EL. -9.00)



SECTION G
M1 M7
WET PIT #1 = 1220 CFM
WET PIT #2 = 880 CFM

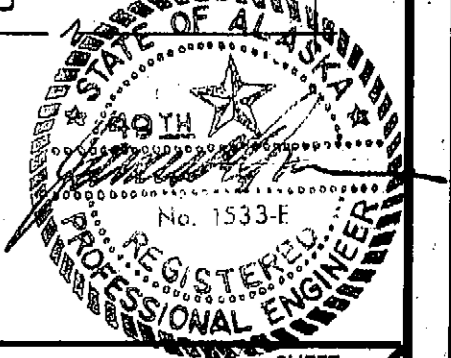
DESIGNED	APPROVED	DATE
DRAWN	SCALE 3/8" = 1'-0"	DATE APR, 1972
CHECKED	FILE 70-P680-10137	

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



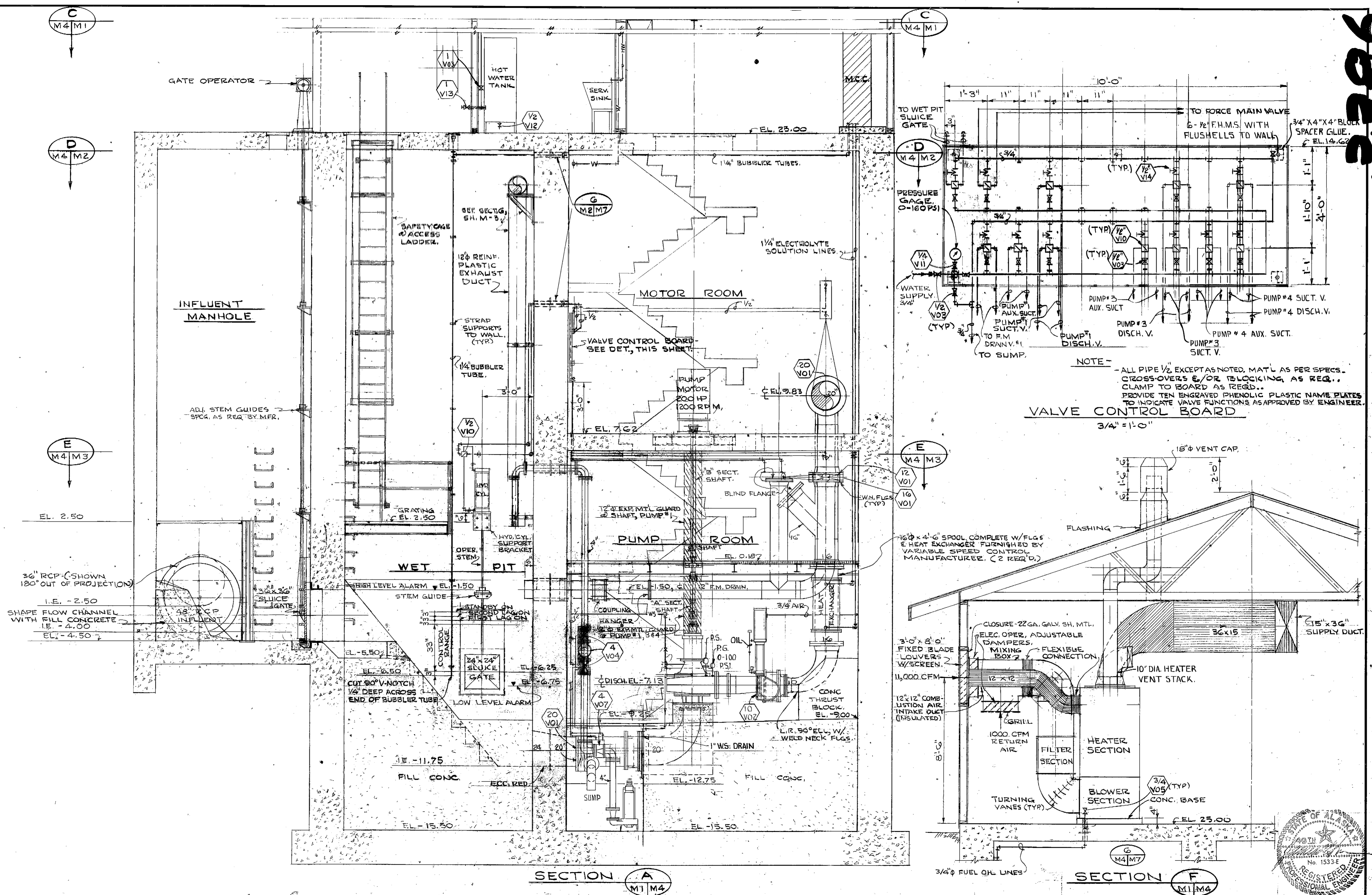
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
PUMP ROOM PLAN



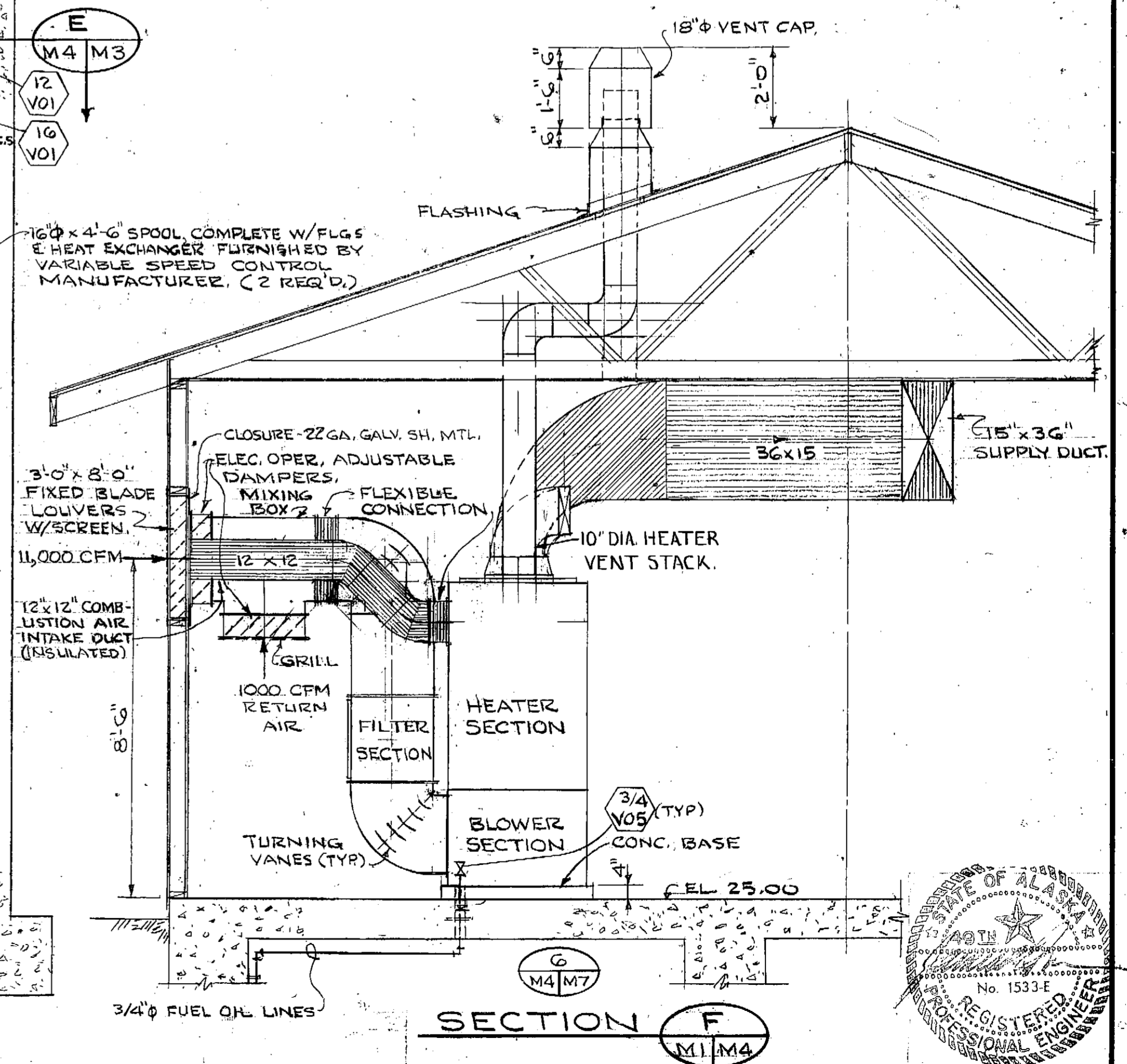
SHEET
M3
7

3396



NOTE -
 - ALL PIPE 1/2" EXCEPT AS NOTED. MAT'L AS PER SPECS.
 - CROSS-OVERS &/OR BLOCKING AS REQ'D.
 - CLAMP TO BOARD AS REQ'D.
 - PROVIDE TEN ENGRAVED PHENOLIC PLASTIC NAME PLATES
 TO INDICATE VALVE FUNCTIONS AS APPROVED BY ENGINEER.

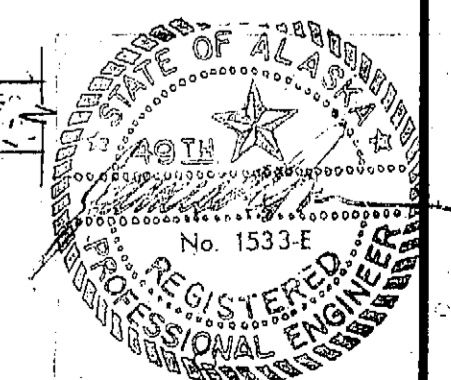
VALVE CONTROL BOARD
 3/4" = 1'-0"



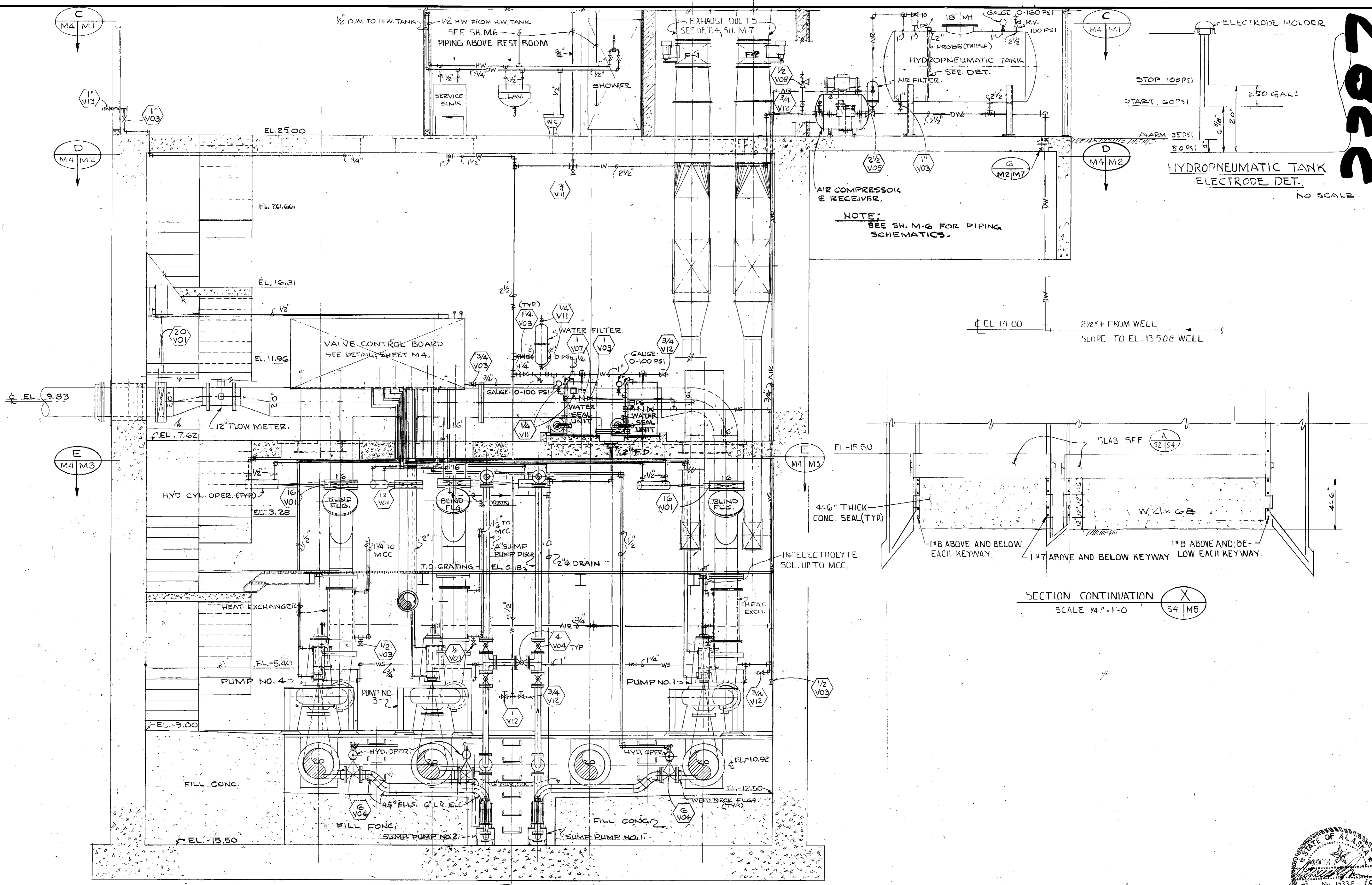
SECTION A
 M1/M4

SECTION F
 M1/M4

DESIGNED LKA DRAWN MOS CHECKED HWT		APPROVED <i>[Signature]</i> SCALE 3/8" = 1'-0" DATE APR., 1972 FILE 70-PG80-1013E		BOROUGH ENGINEERS A JOINT VENTURE TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES		GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT		CAMPBELL CREEK PUMP STATION SECTIONS & DETAILS		SHEET M4 7
--	--	--	--	--	--	--	--	---	--	-------------------------

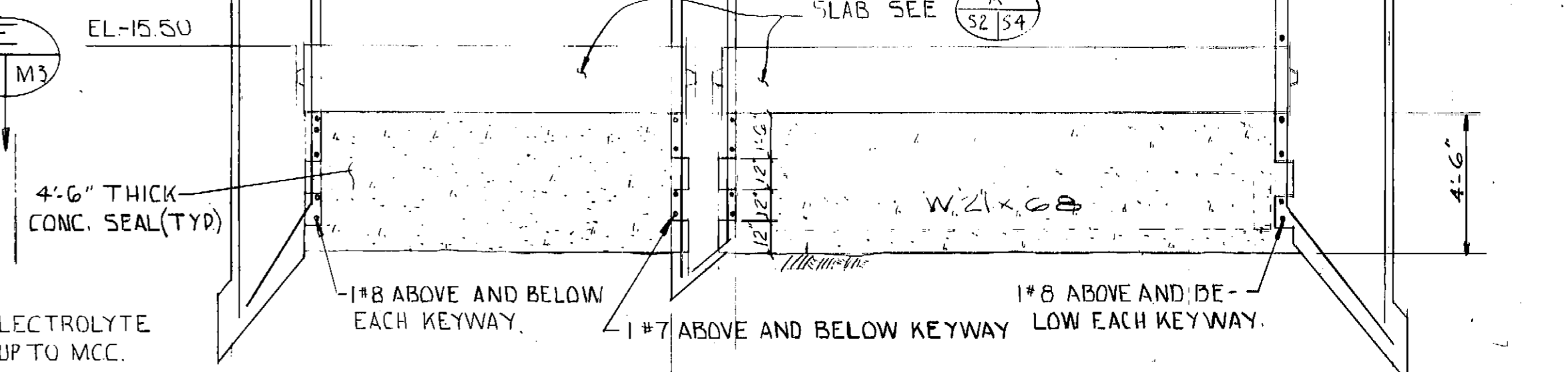


3387



NOTE:
SEE SH. M-6 FOR PIPING SCHEMATICS.

EL. 14.00 2 1/2" + FROM WELL
SLOPE TO EL. 13.50 @ WELL



SECTION CONTINUATION X
SCALE 1/4" = 1'-0" S4 M5

SECTION B
M4 M5

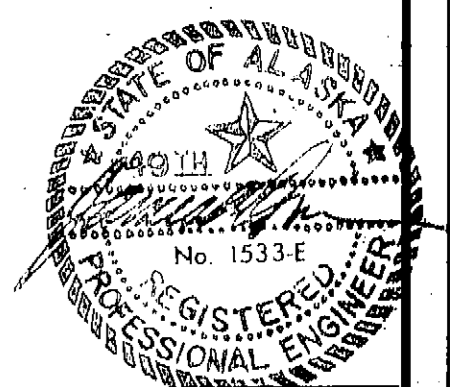
DESIGNED LKA	APPROVED <i>[Signature]</i>
DRAWN MOS	SCALE 3/8" = 1'-0" DATE APR, 1972
CHECKED HWT	FILE 70-P680-19139
DATE 7-29-74	NO. 1
REVISION 1 REVISED AS CONSTRUCTED	

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



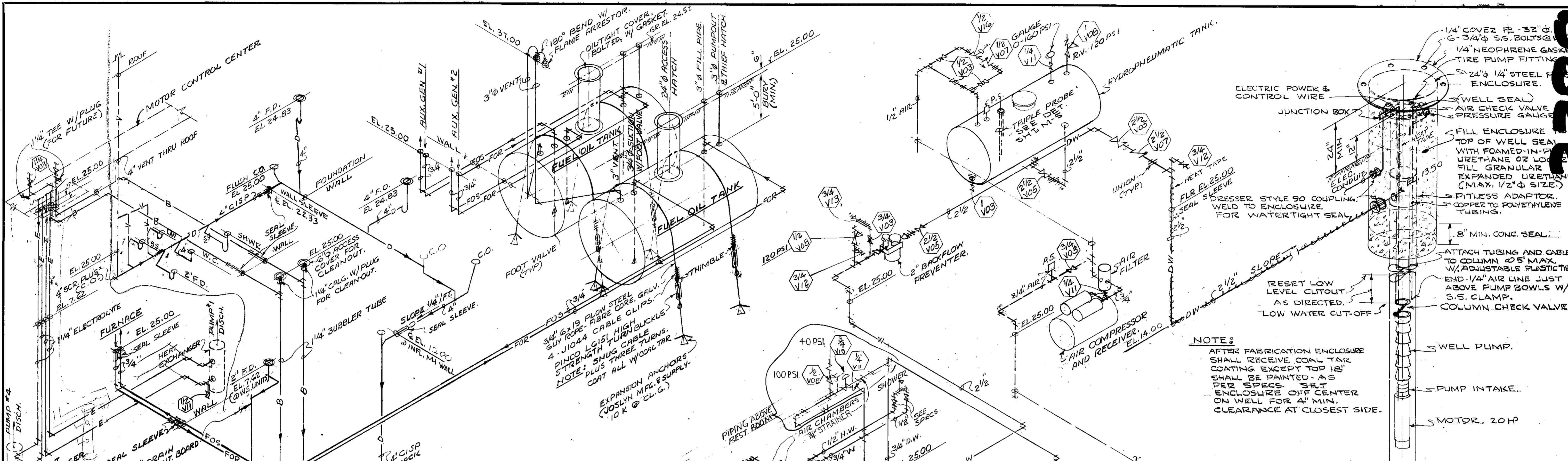
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
SECTIONS & DETAILS

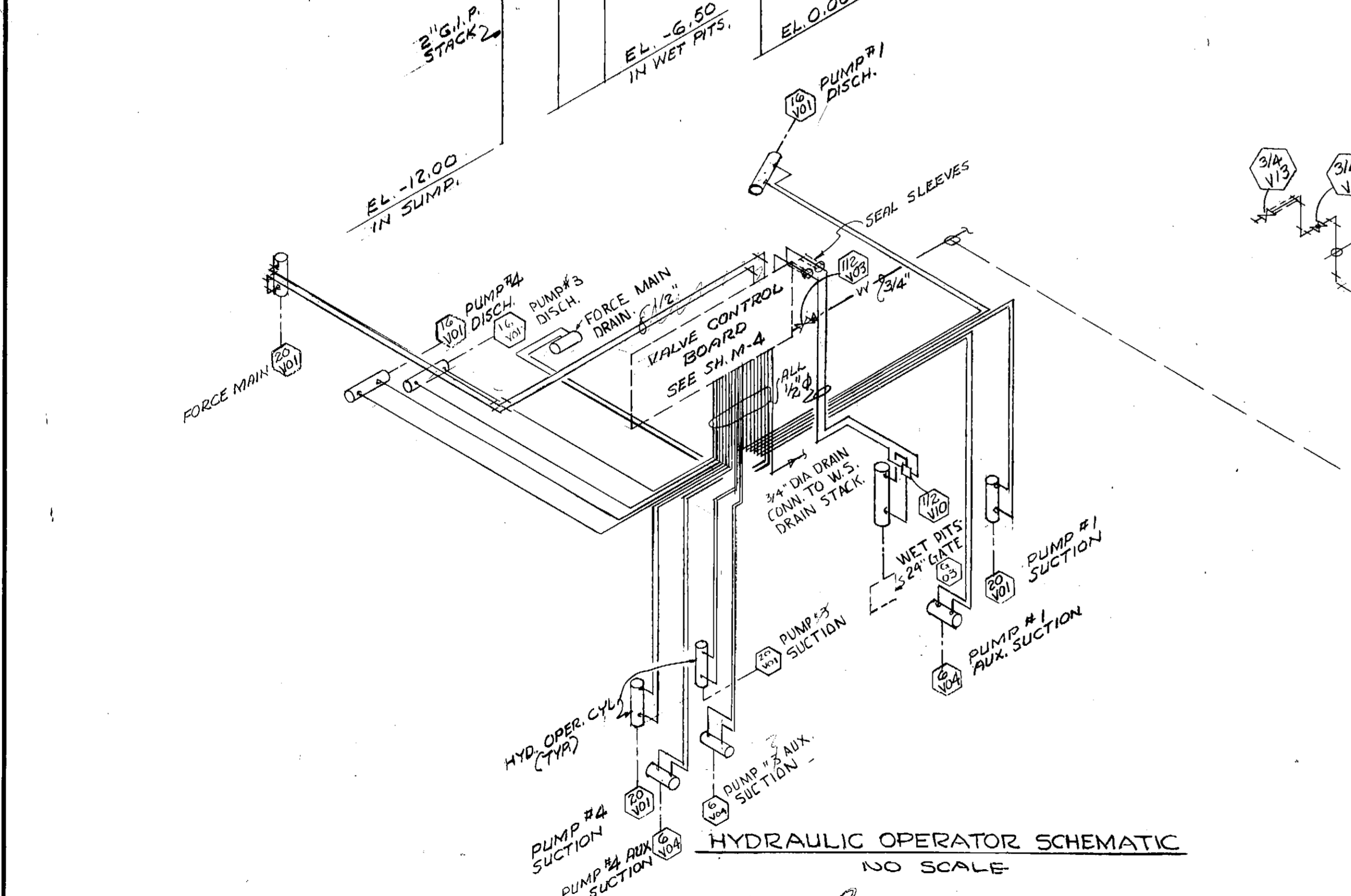


SHEET
M5
7

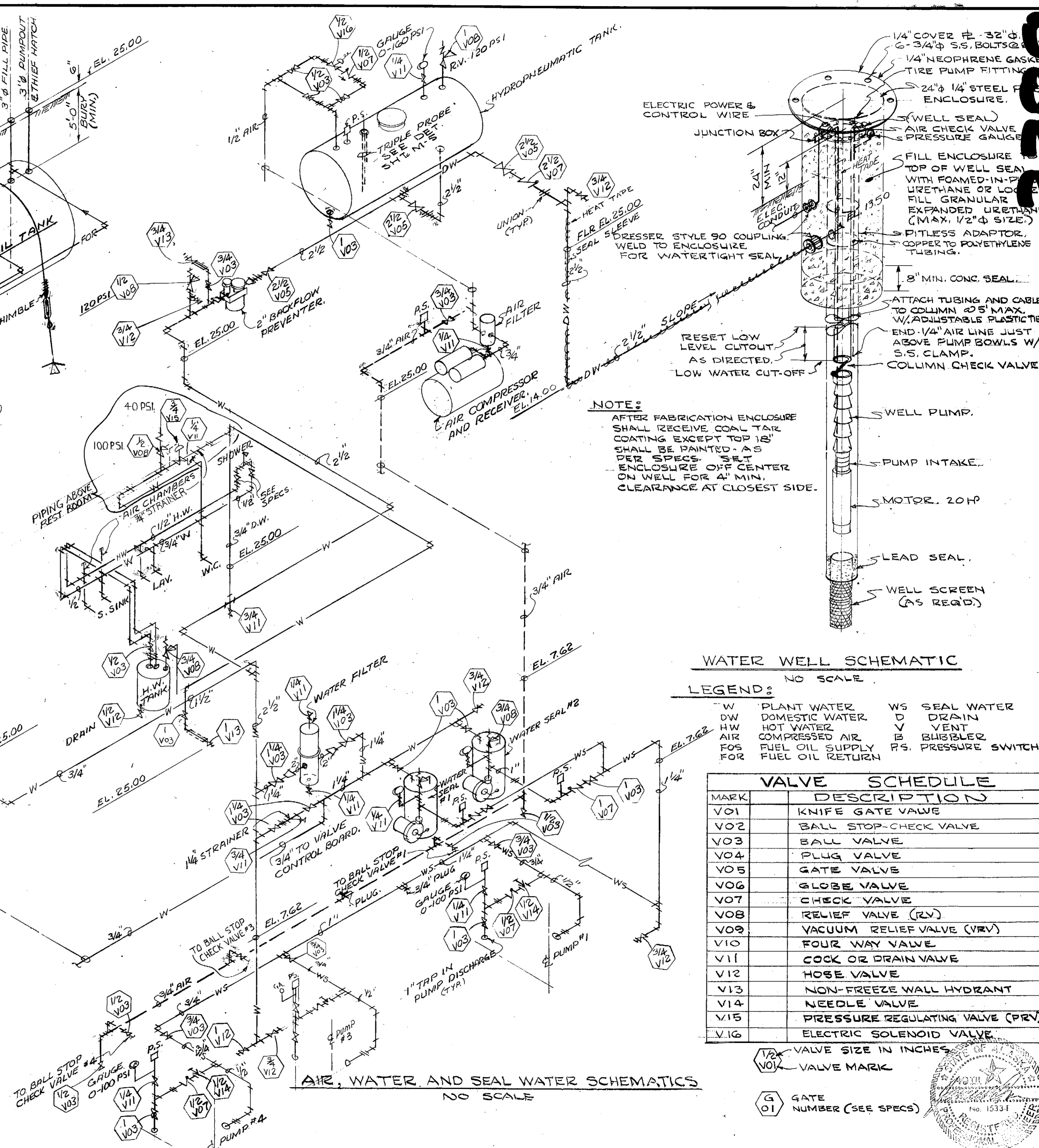
00333



FUEL OIL, DRAINAGE, BUBBLER AND ELECTROLYTE SCHEMATICS
NO SCALE



HYDRAULIC OPERATOR SCHEMATIC
NO SCALE



AIR, WATER AND SEAL WATER SCHEMATICS
NO SCALE

NOTE:
AFTER FABRICATION ENCLOSURE SHALL RECEIVE COAL TAR COATING EXCEPT TOP 18" SHALL BE PAINTED. AS PER SPECS. SET ENCLOSURE OFF CENTER ON WELL FOR 4" MIN. CLEARANCE AT CLOSEST SIDE.

WATER WELL SCHEMATIC
NO SCALE

LEGEND:

W	PLANT WATER	WS	SEAL WATER
DW	DOMESTIC WATER	D	DRAIN
HW	HOT WATER	V	VENT
AIR	COMPRESSED AIR	B	BUBBLER
FOS	FUEL OIL SUPPLY	PS	PRESSURE SWITCH
FOR	FUEL OIL RETURN		

VALVE SCHEDULE	
MARK	DESCRIPTION
V01	KNIFE GATE VALVE
V02	BALL STOP-CHECK VALVE
V03	BALL VALVE
V04	PLUG VALVE
V05	GATE VALVE
V06	GLOBE VALVE
V07	CHECK VALVE
V08	RELIEF VALVE (RV)
V09	VACUUM RELIEF VALVE (VRV)
V10	FOUR WAY VALVE
V11	COCK OR DRAIN VALVE
V12	HOSE VALVE
V13	NON-FREEZE WALL HYDRANT
V14	NEEDLE VALVE
V15	PRESSURE REGULATING VALVE (PRV)
V16	ELECTRIC SOLENOID VALVE

1/2" VALVE SIZE IN INCHES
V01 VALVE MARK
G GATE NUMBER (SEE SPECS)

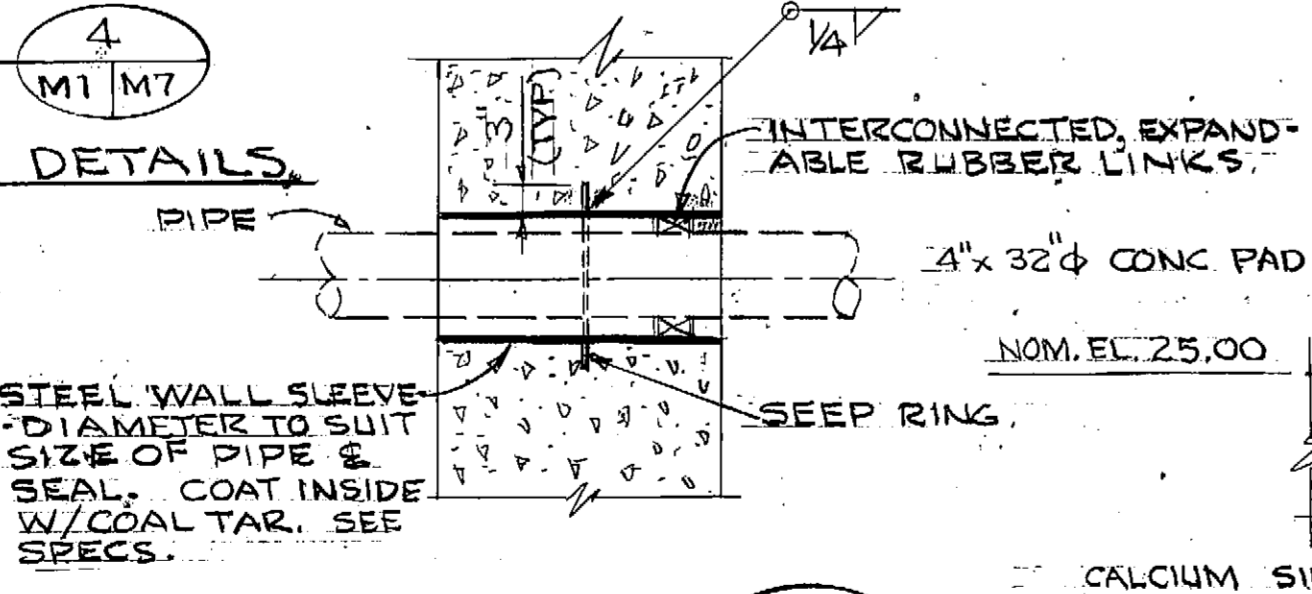
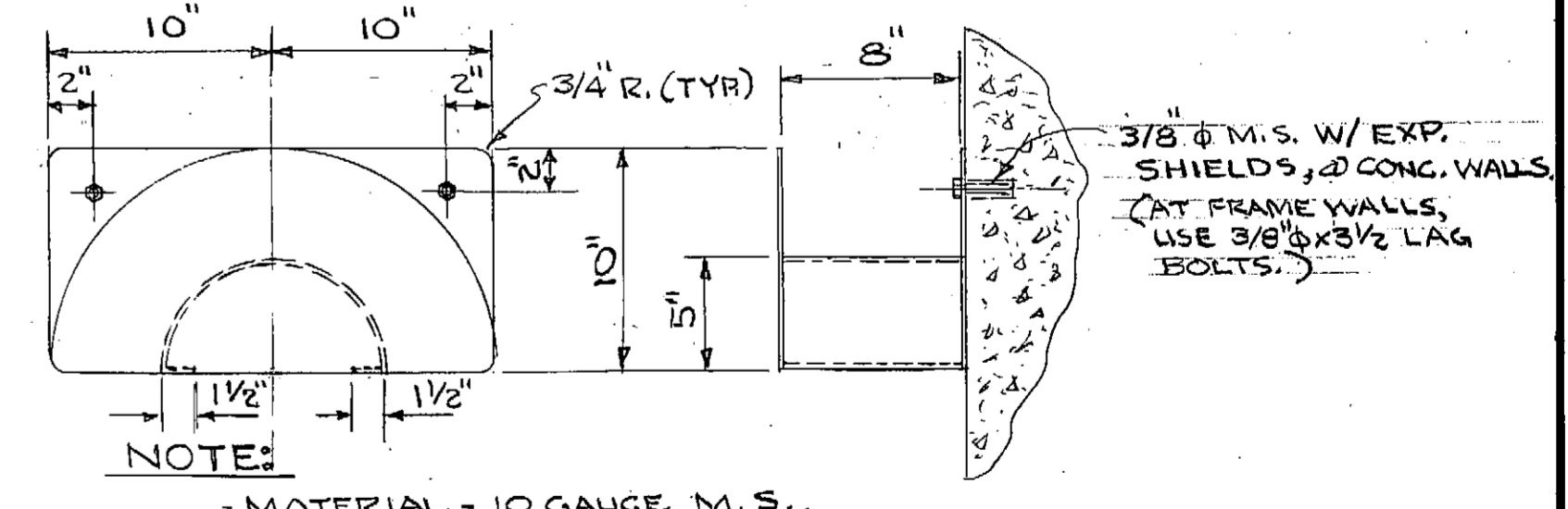
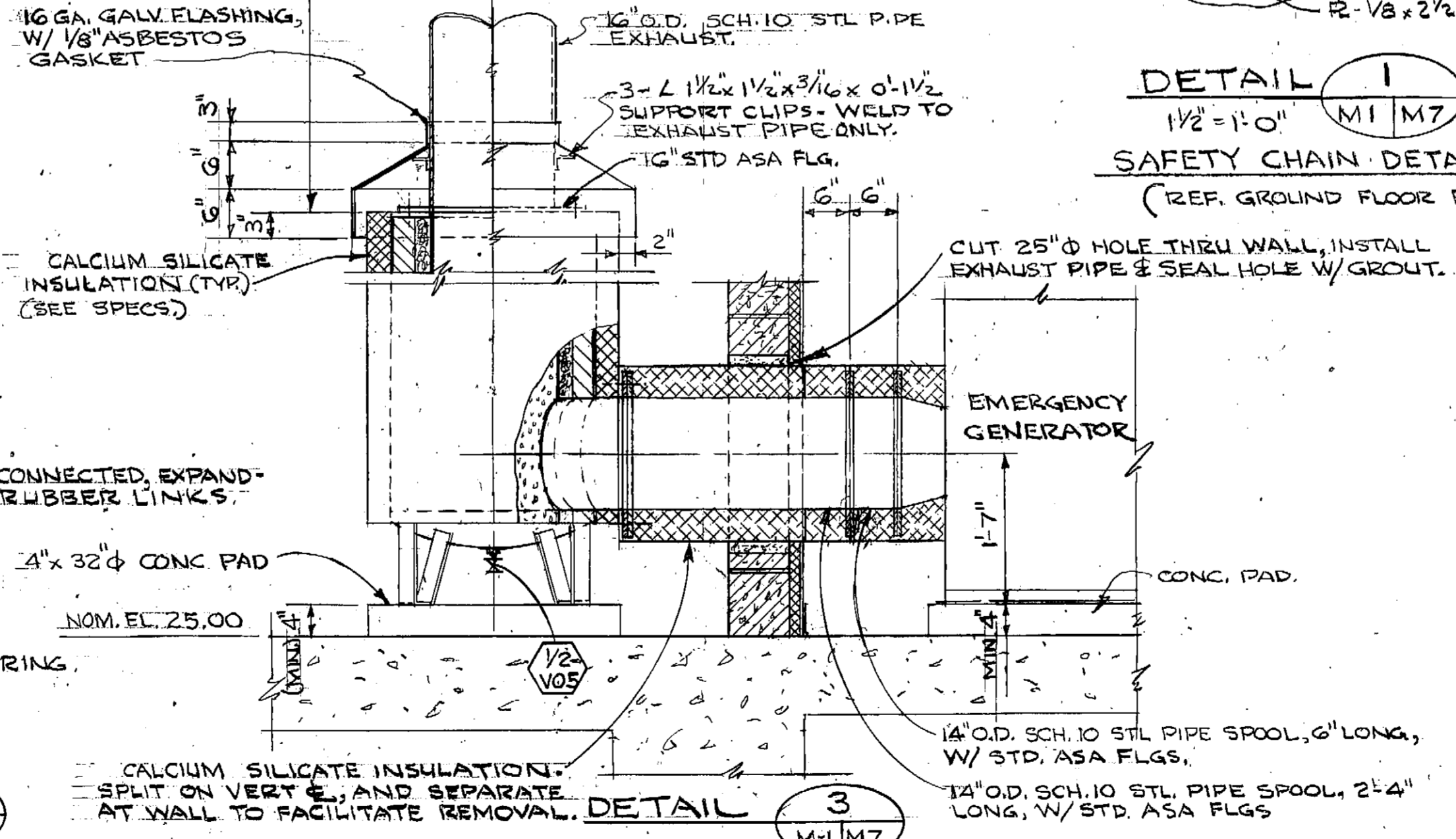
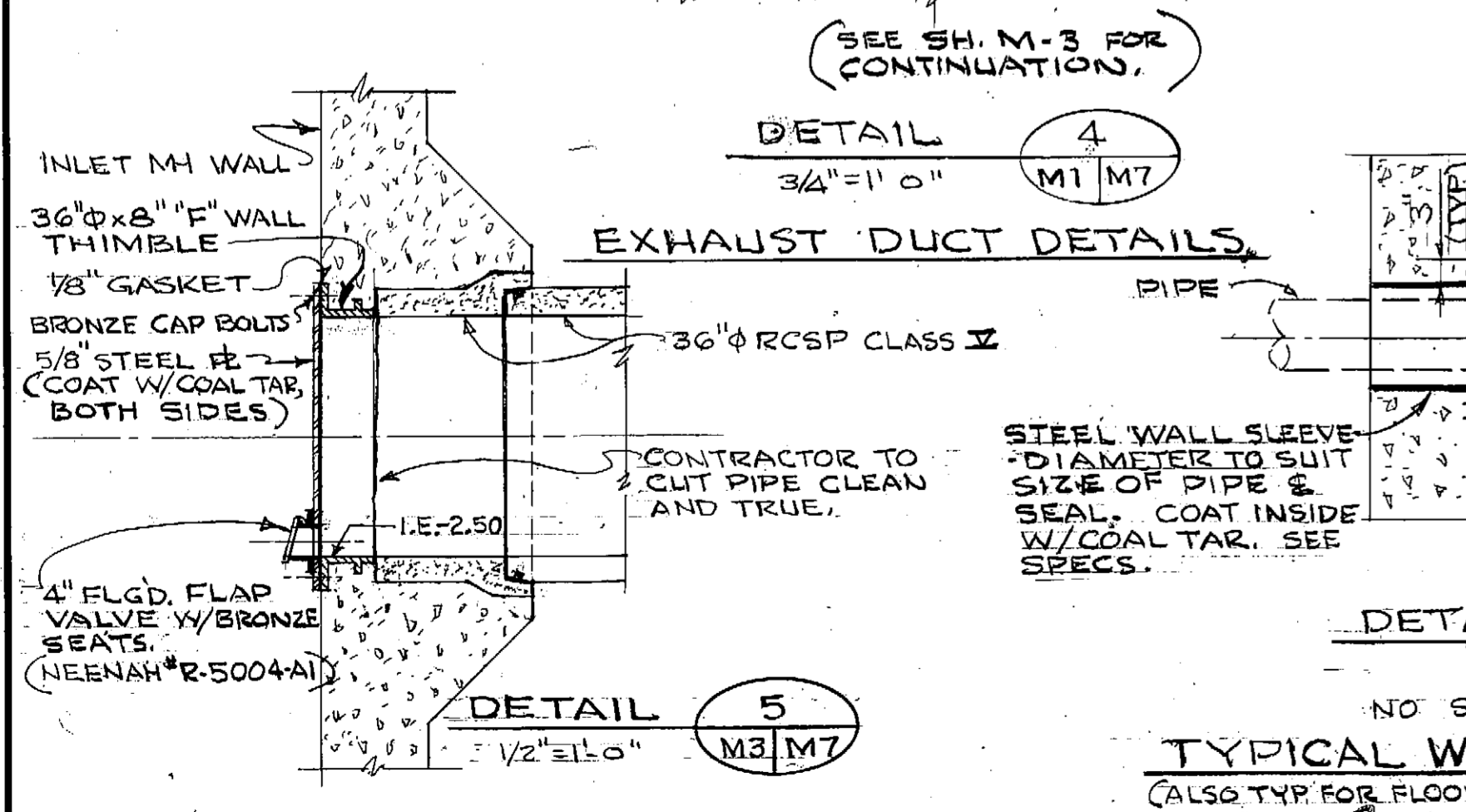
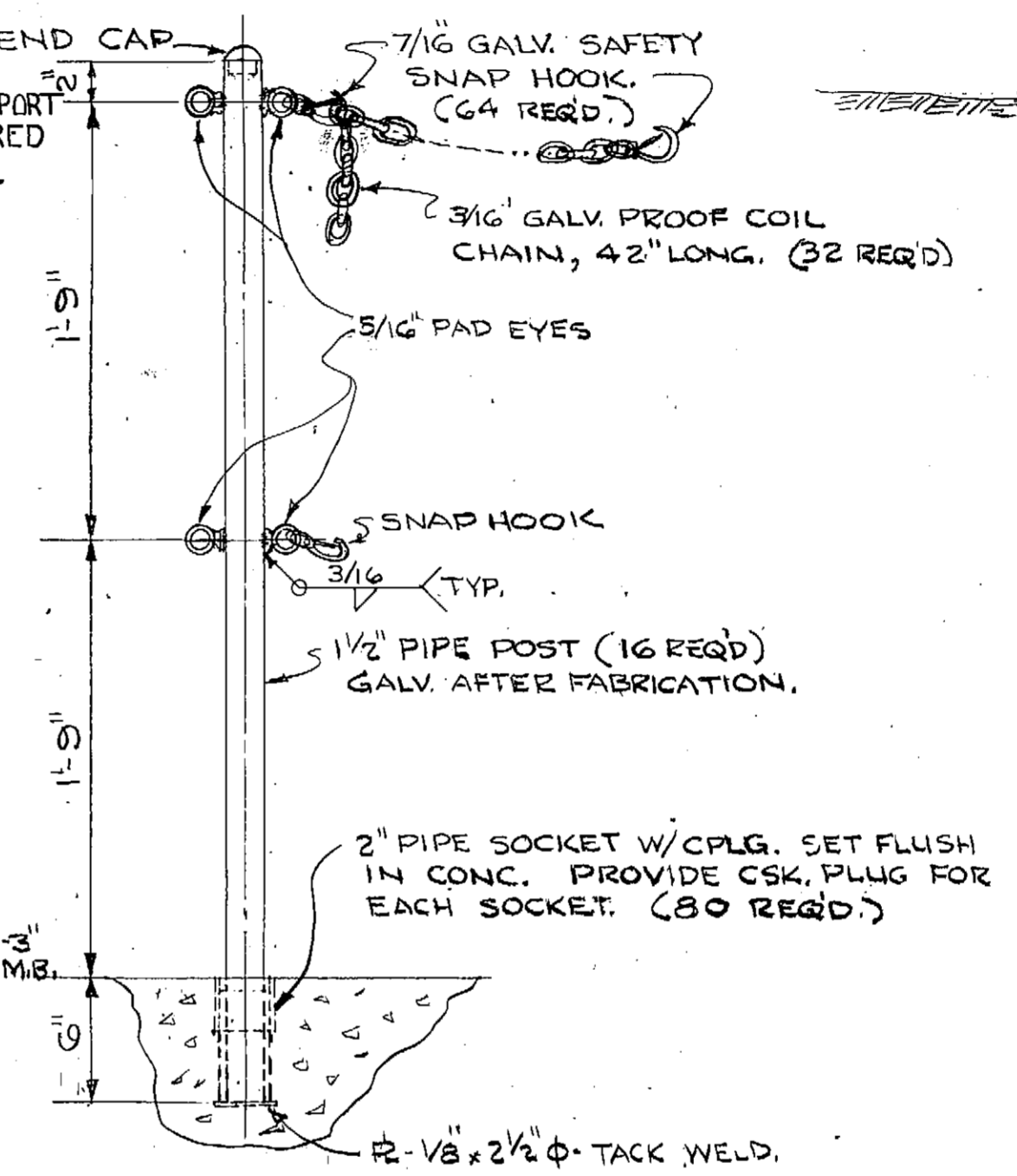
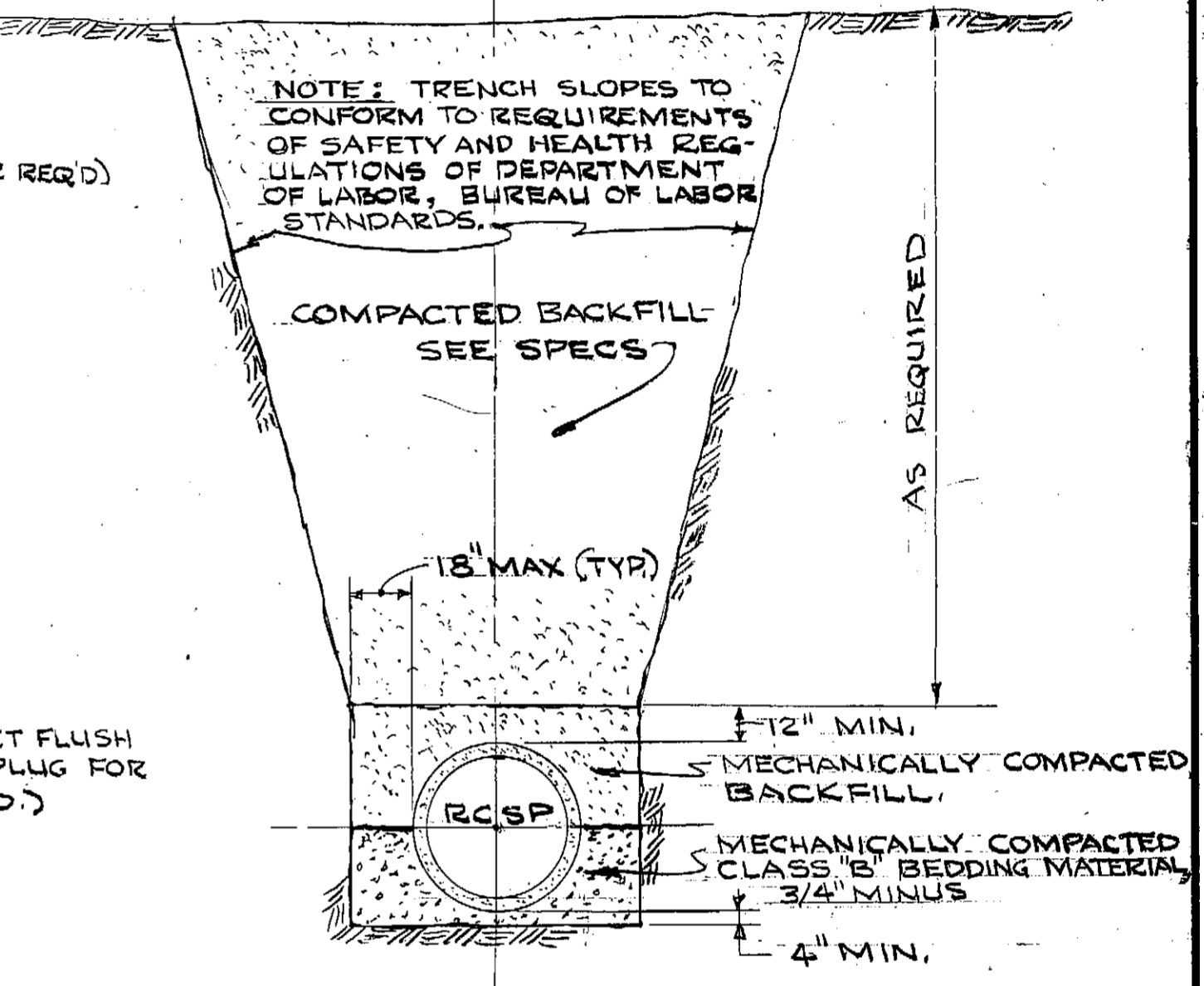
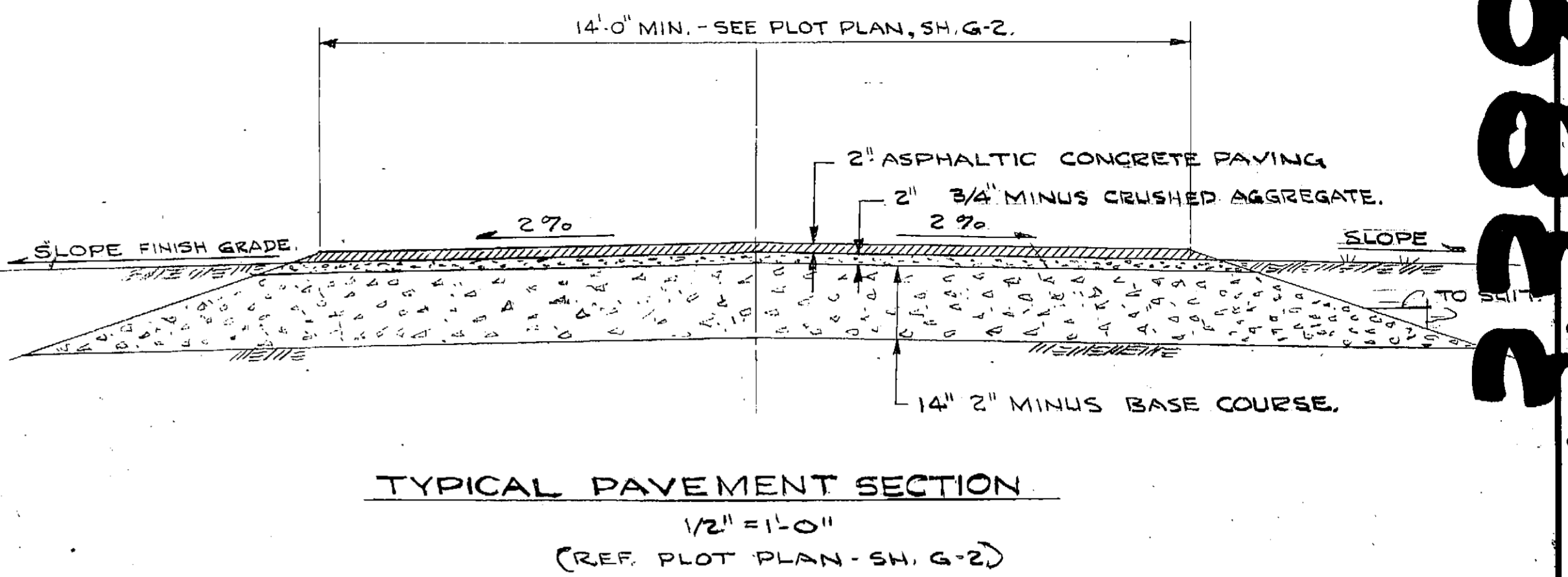
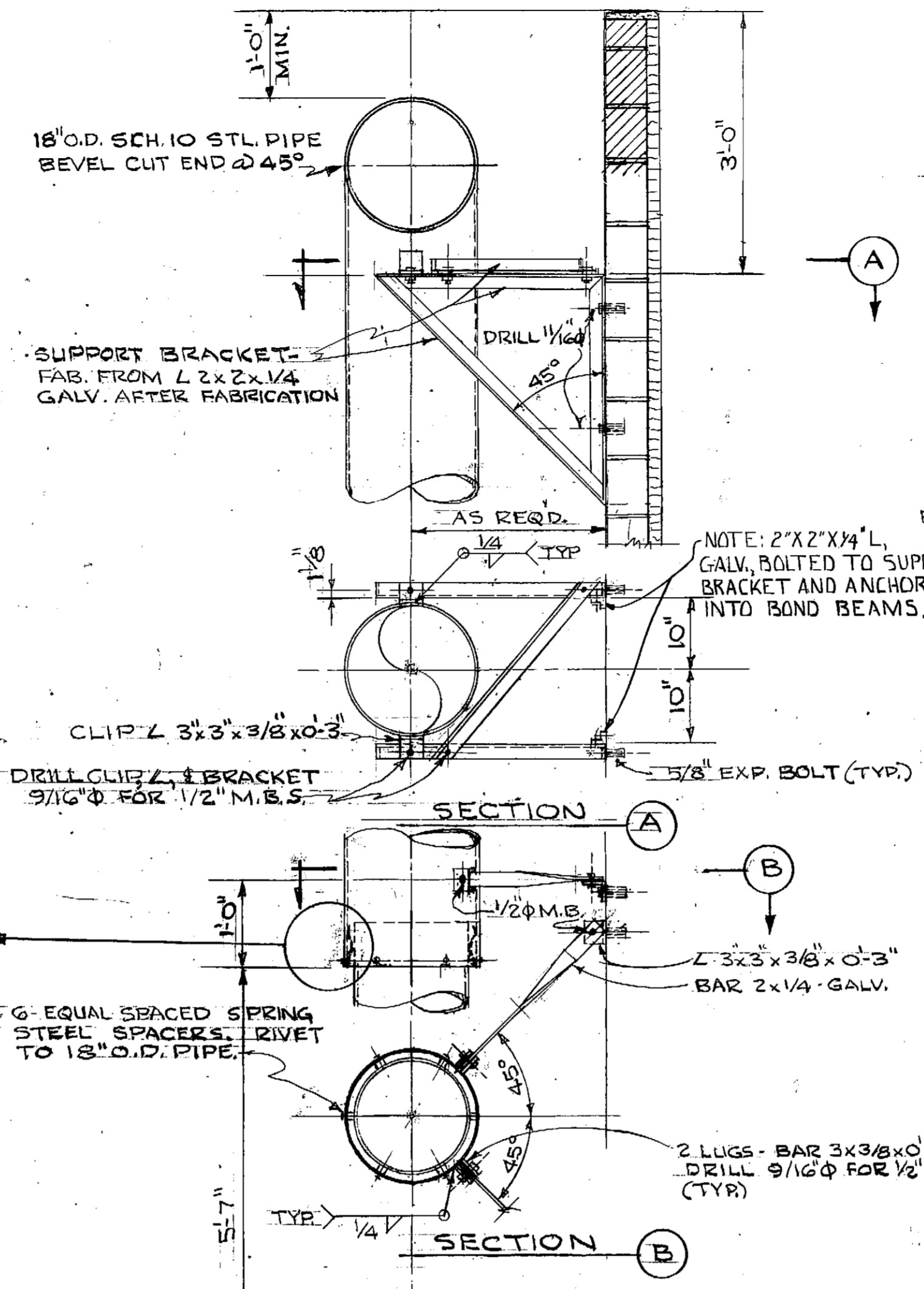
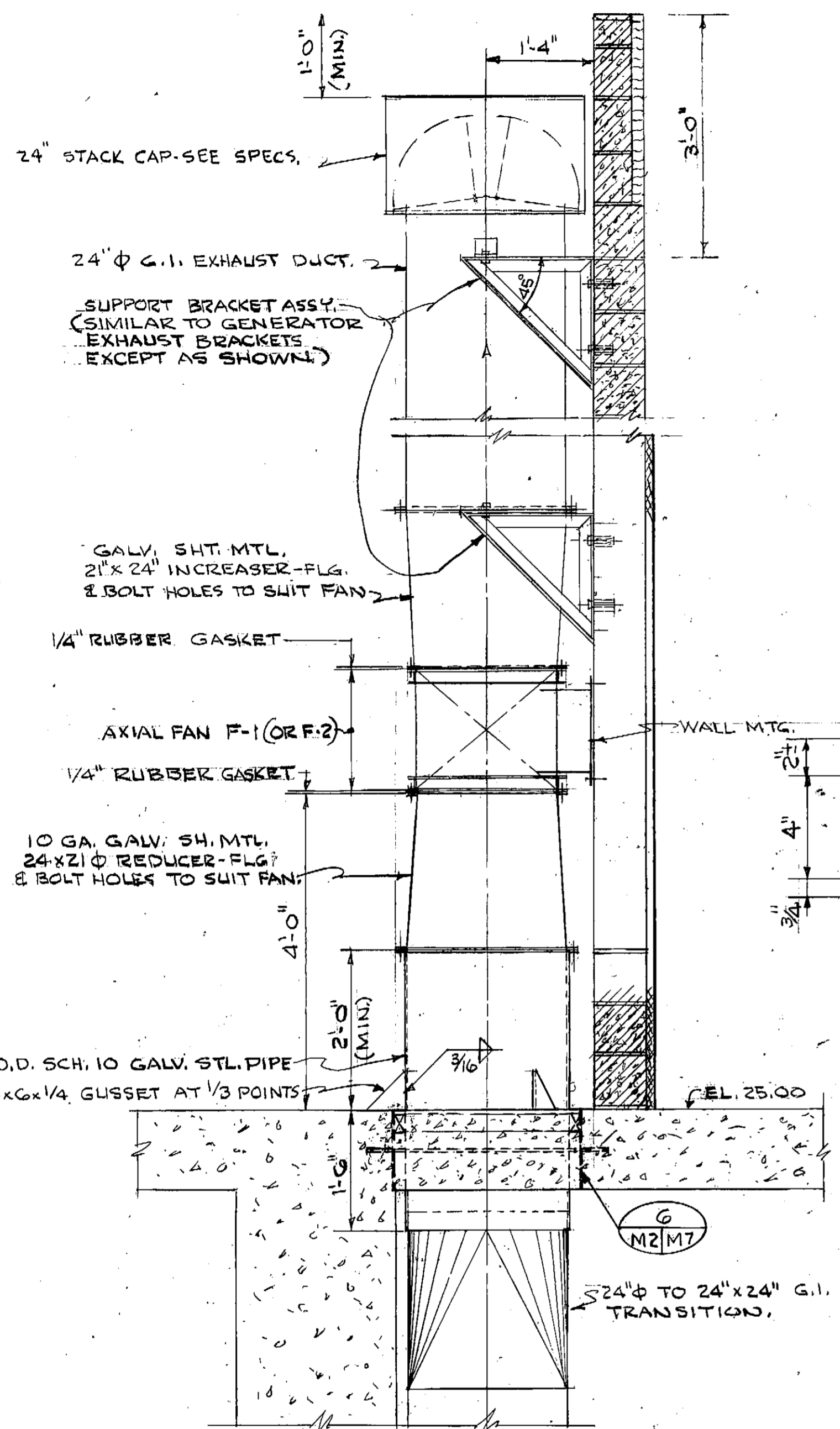
DESIGNED: LKA APPROVED: [Signature]
DRAWN: MOS SCALE: NONE DATE: APR, 1972
CHECKED: HWT FILE: 70-P680-10140

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
PIPING SCHEMATICS
SHEET M6
7

3389



DESIGNED	LKA	APPROVED	[Signature]
DRAWN	MOS	SCALE	AS SHOWN
CHECKED	HWT	DATE	APR, 1972
BY		FILE	70-P680-10141

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



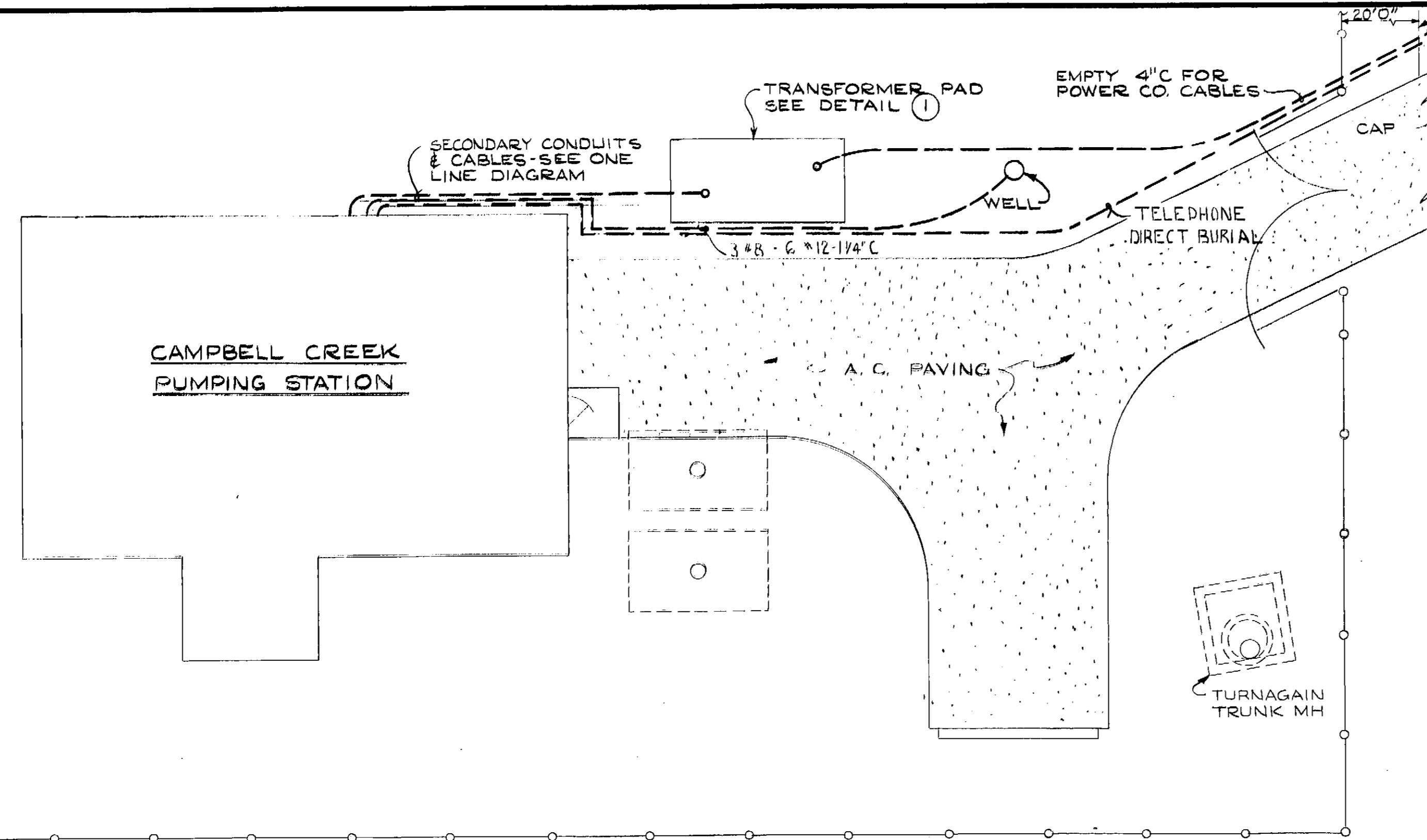
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
MISCELLANEOUS DETAILS



SHEET
M7
7

0933390

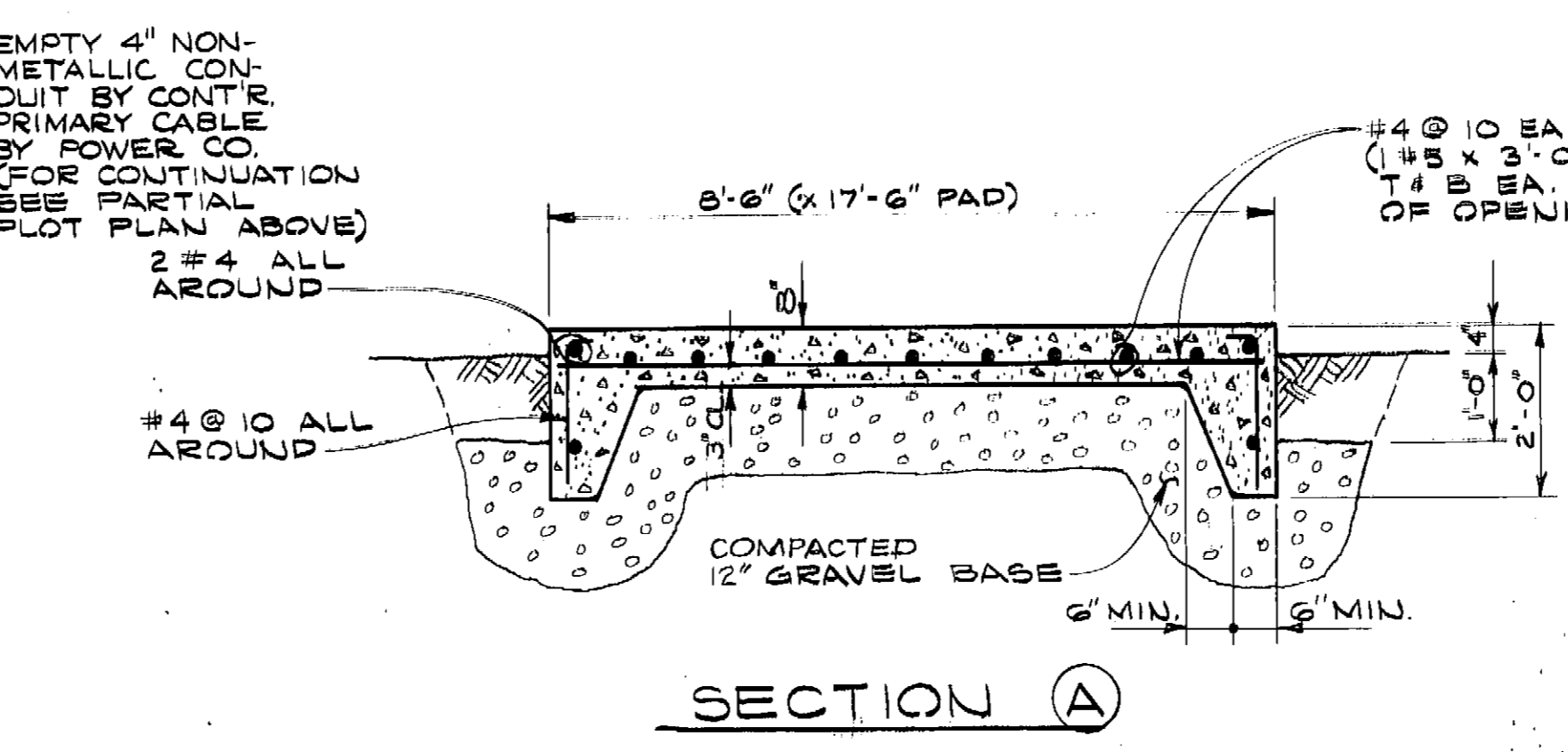
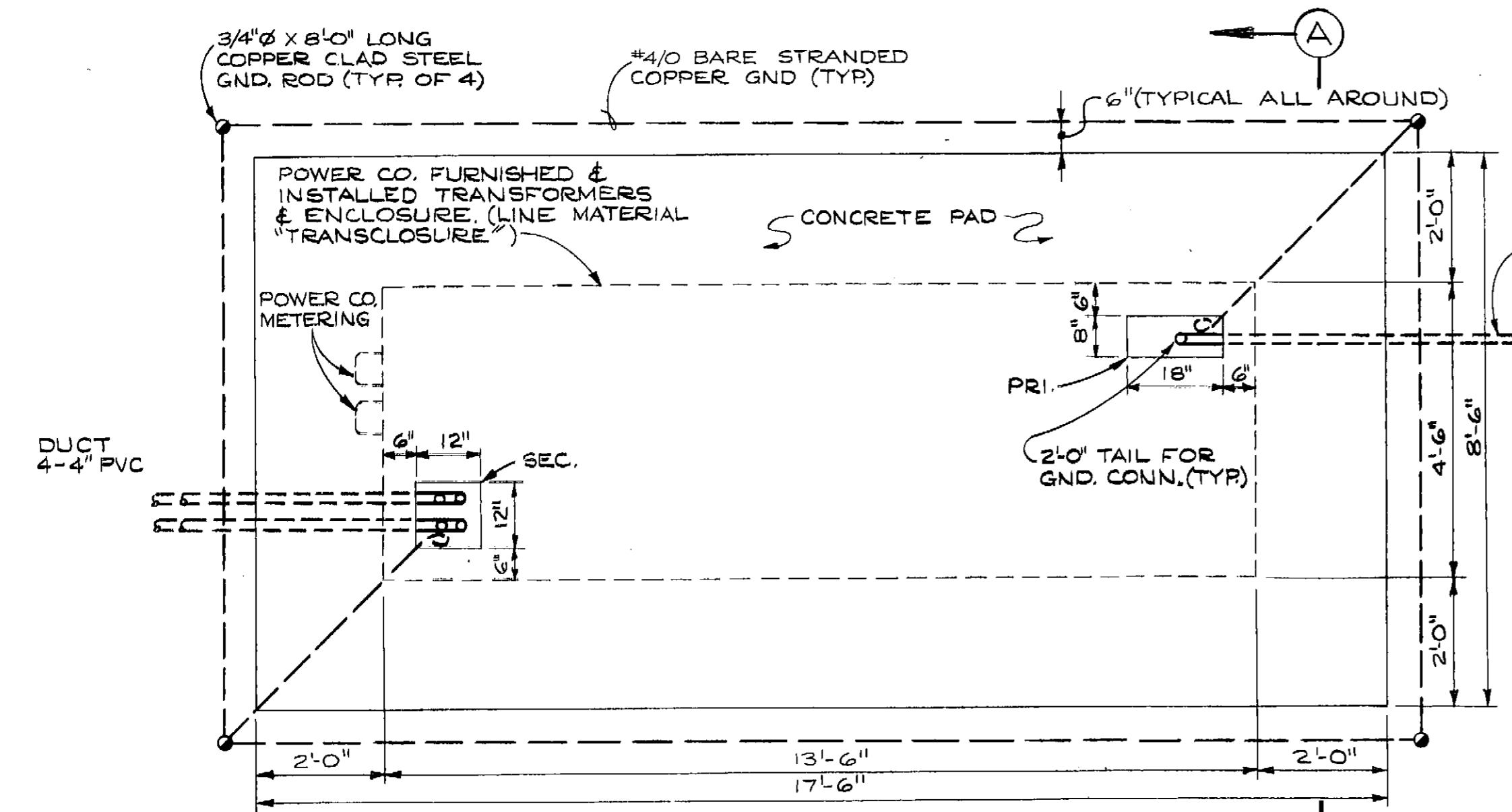


PARTIAL PLOT PLAN - ELECTRICAL
SCALE: 1" = 10'-0"

PANEL SCHEDULE							
PANEL	VOLTS	MAIN LUG RATING	MOUNTING	CKT. NO.	BRANCH CKT. BRKR. RATING	NO. OF ACTIVE CKTS.	NO. OF SPARE CKTS.
LL	120/208-3Ø, 4W	100A	FLUSH IN "MCC"	5 THRU 7 10 THRU 13, 19 THRU 24, 28 & 29	15A-1P	14	1
				1 THRU 4, 8, 9, 14 THRU 18, 26 & 27	20A-1P	9	3
				25	20A-2P	1	0
				30 & 31	25A-1P	2	0

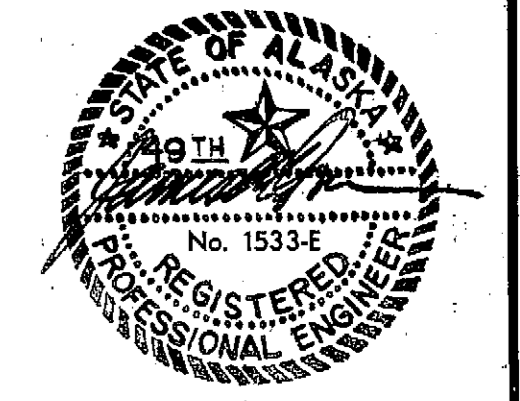
NOTE: PROVIDE RED HANDLE BREAKER ON CKT'S LL-24 & LL-28 (TELEMETERING EQUIP) & LL-25 (FIRE ALARM PANEL)

- ### ELECTRICAL LEGEND
- ② - PENDANT FIXTURE OUTLET
 - ④ - WALL FIXTURE OUTLET
 - ① - FLUORESCENT FIXTURE OUTLET
 - ⊖ - FLOODLIGHT OUTLET - ARROW DENOTES DIRECTION TO BE AIMED.
 - T - THERMOSTAT
 - M₅ - MOTOR, HP INDICATED
 - M₂₀₀ - MOTOR, WOUND ROTOR TYPE, HP 200 INDICATED
 - PB - PUSHBUTTON STATION
 - SL - SELECTOR SWITCH
 - SV - SOLENOID VALVE
 - LS - LIMIT SWITCH
 - FS - FLOAT SWITCH
 - PS - PRESSURE SWITCH
 - FC - FIRE DETECTOR-COMB. TEMP. & RATE OF RISE
 - FT - FIRE DETECTOR-FIXED TEMPERATURE
 - FM - FIRE ALARM MANUAL STATION
 - DS - DOOR ALARM LIMIT SWITCH
 - DK - DOOR ALARM KEY SWITCH
 - PE - PHOTOELECTRIC CONTROL
 - ⊕ - DUPLEX 15A, 125V 2P 3W RECEPT.
 - Ⓝ - JUNCTION BOX
 - S₁ - SINGLE POLE SWITCH } LETTER DENOTES SWITCHING.
 - S₃ - 3 WAY SWITCH }
 - SFP - FAN SWITCH W/PILOT LIGHT
 - | — - BRANCH CIRCUIT OR FEEDER EXPOSED WITH GENERAL ROUTE INDICATED
 - - - - BRANCH CIRCUIT OR FEEDER IN FLOOR OR BELOW GRADE.
 - - - - BRANCH CIRCUIT OR FEEDER IN WALL OR CEILING.
 - ~~~~~ - FLEXIBLE CONDUIT
 - F- - FIRE ALARM CIRCUIT
 - - HOME RUN TO PANEL W/PANEL LETTER & CIRCUIT NUMBER INDICATED. CROSS-BARS DENOTE NUMBER OF CONDUCTORS. NO CROSSBARS INDICATE 2 CONDUCTORS
 - | — - CIRCUIT DOWN
 - | — - CIRCUIT UP
 - [P] - PACKAGE CONTROL SYSTEM W/DISCONNECTING MEANS
 - - - - BRANCH CIRCUIT OR FEEDER EXPOSED ON CEILING OF FLOOR BELOW.
- SUBSCRIPT ADDED TO ANY SYMBOL DENOTES:
- WP - WEATHERPROOF, NEMA 4
 - +5'-0" - MOUNTING HEIGHT ABOVE FLOOR
 - [E] - LEVEL ELEMENT
 - EX - EXPLOSION PROOF

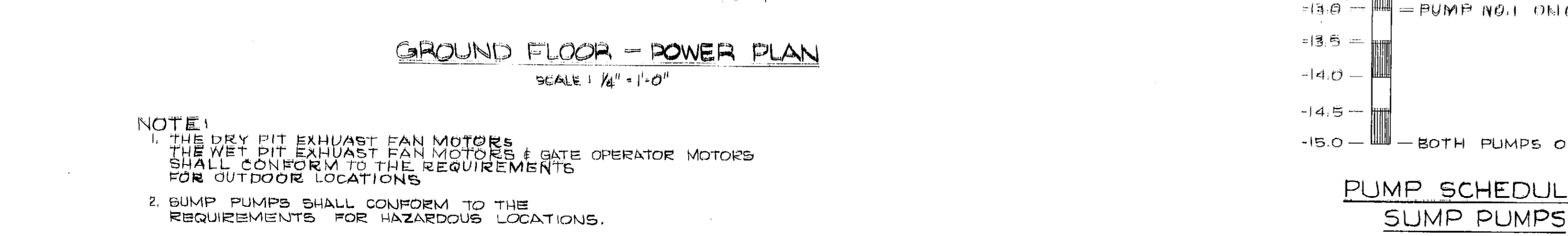
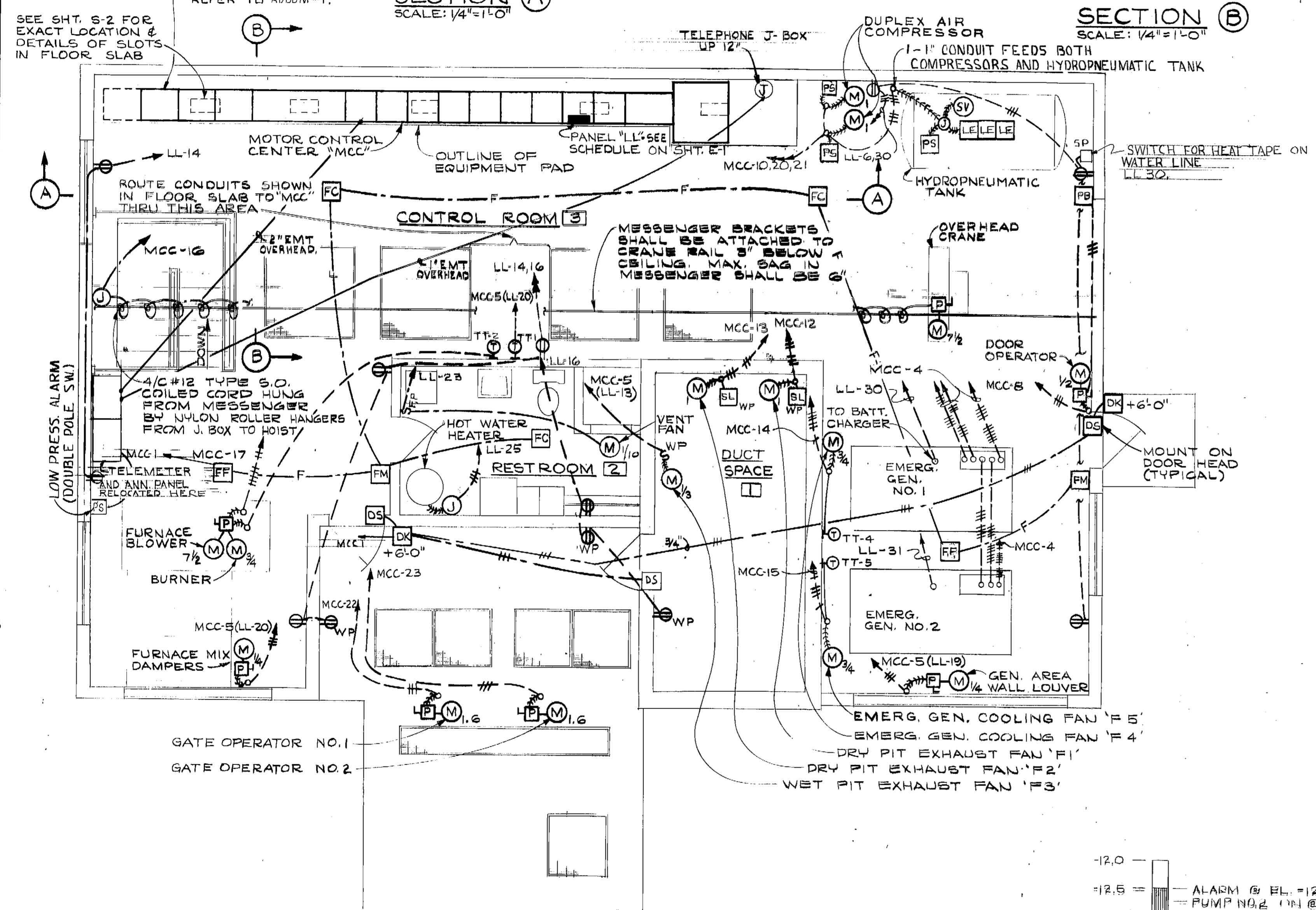
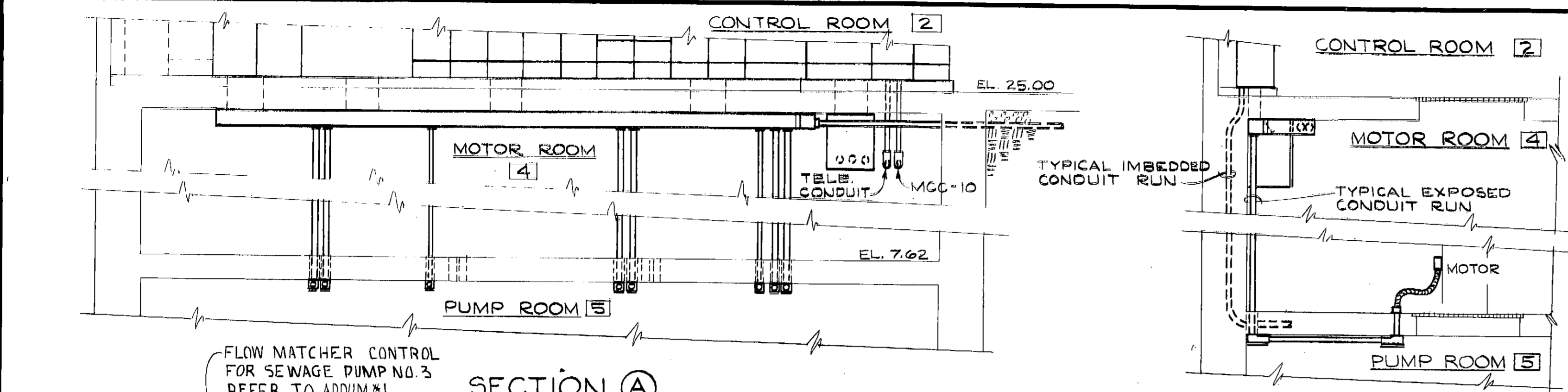


TRANSFORMER PAD DETAIL ①
SCALE: 1/2" = 1'-0"

NOTE: VERIFY ALL TRANSFORMER PAD DETAILS, GROUNDING DETAILS, DIMENSIONS & METERING WITH POWER COMPANY.



1633



NOTE:
 1. THE DRY PIT EXHAUST FAN MOTORS, THE WET PIT EXHAUST FAN MOTORS & GATE OPERATOR MOTORS SHALL CONFORM TO THE REQUIREMENTS FOR OUTDOOR LOCATIONS.
 2. SUMP PUMPS SHALL CONFORM TO THE REQUIREMENTS FOR HAZARDOUS LOCATIONS.

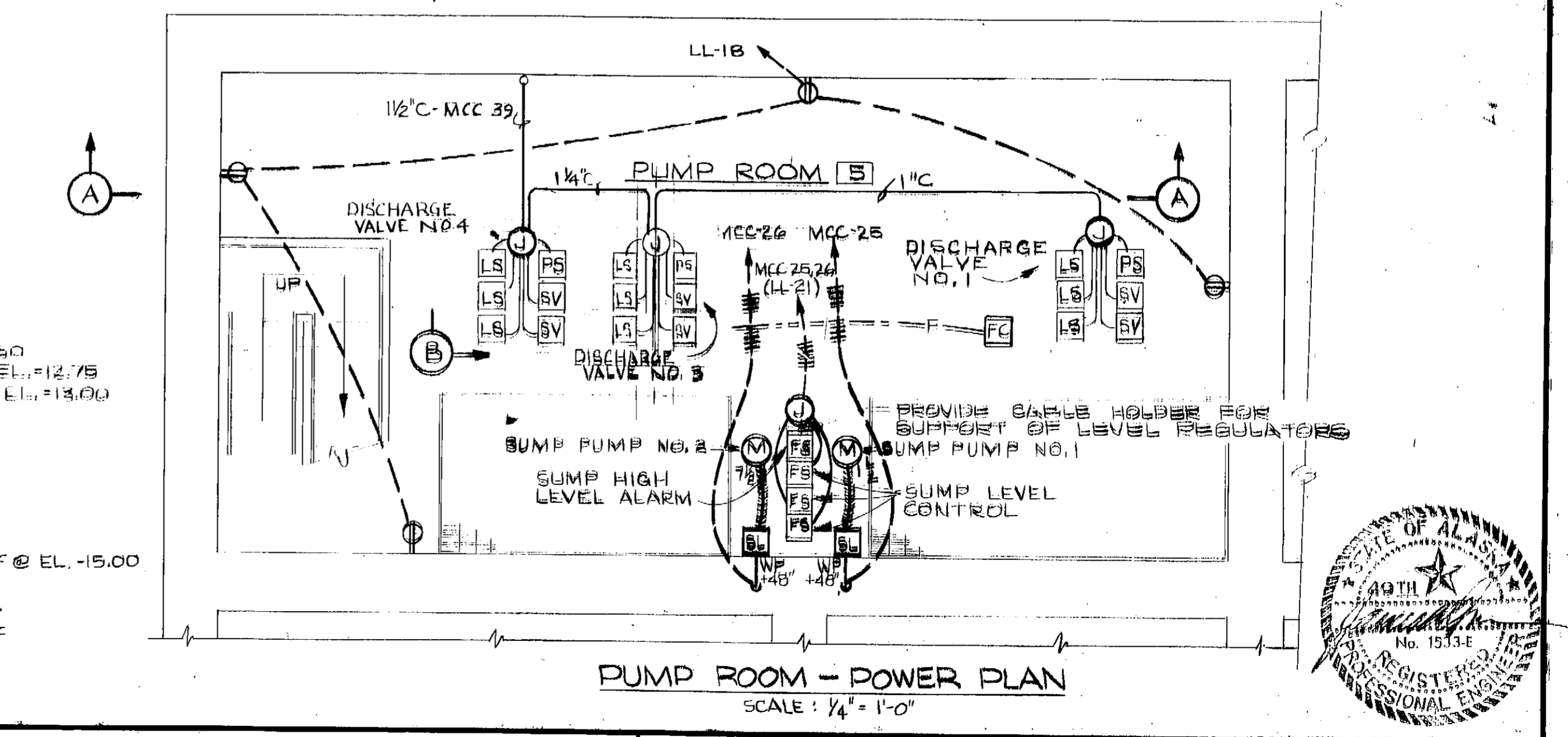
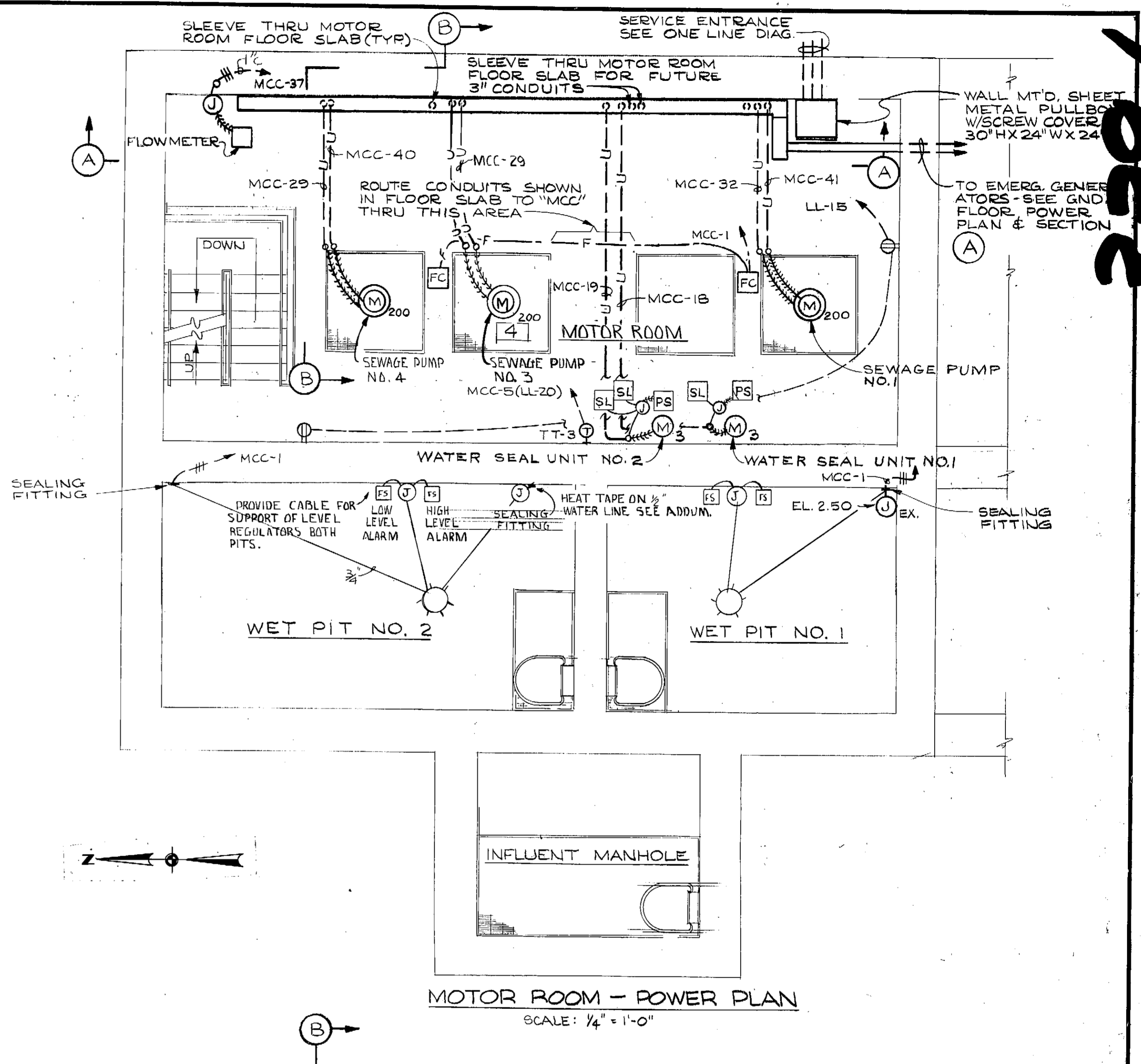
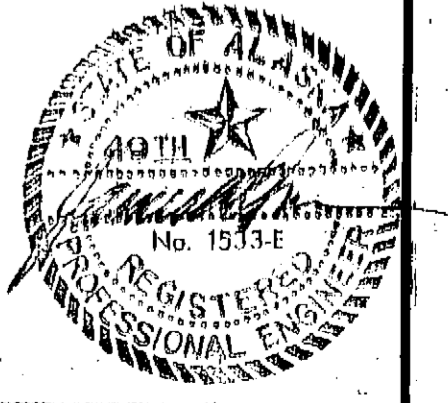
DESIGNED L.R.I. APPROVED [Signature]
 DRAWN W.H.R./D.R.S. SCALE AS SHOWN DATE APR. 1972
 CHECKED E.C.K. FILE 70-P680-1014-3

BOROUGH ENGINEERS
 A JOINT VENTURE
 TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



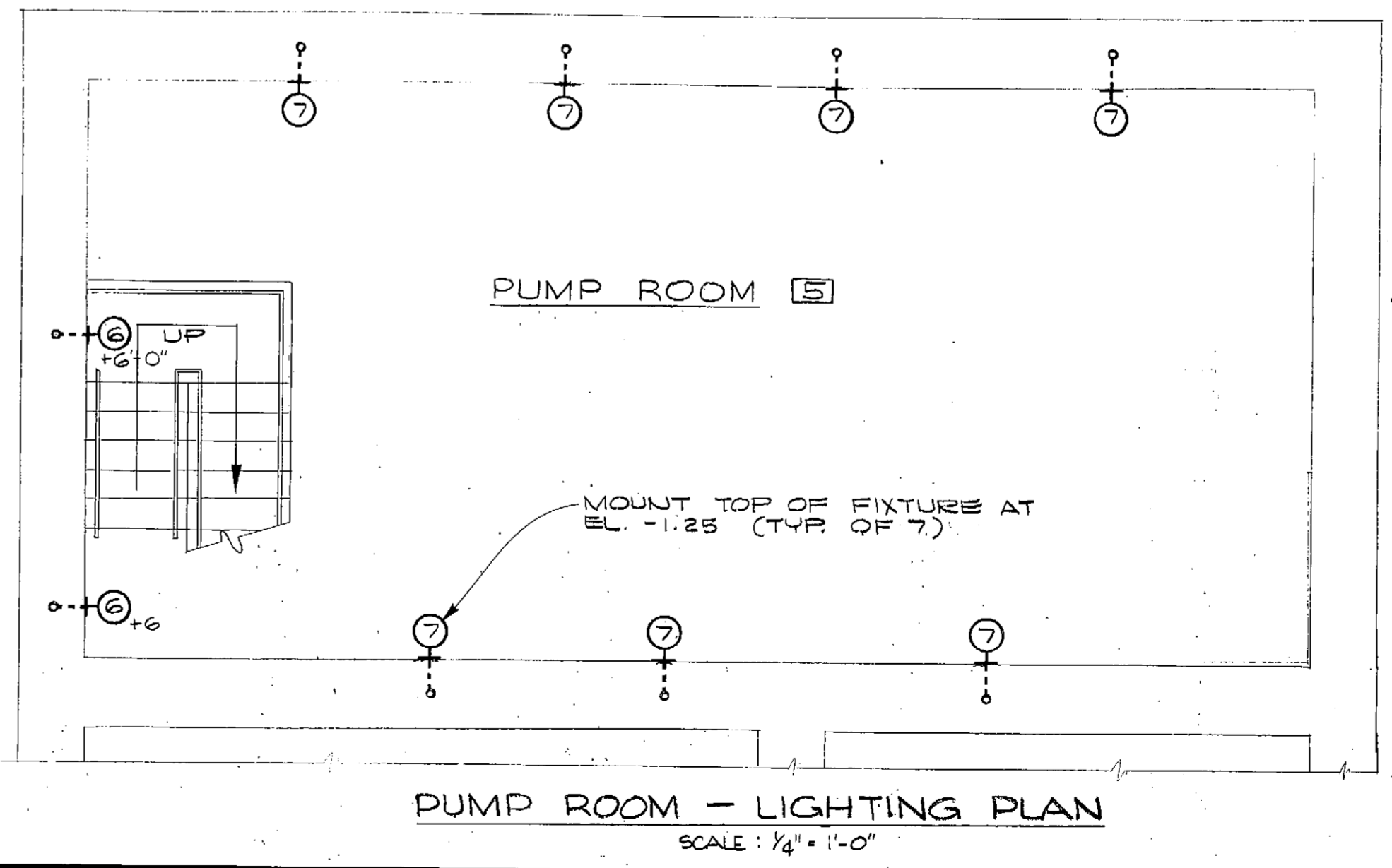
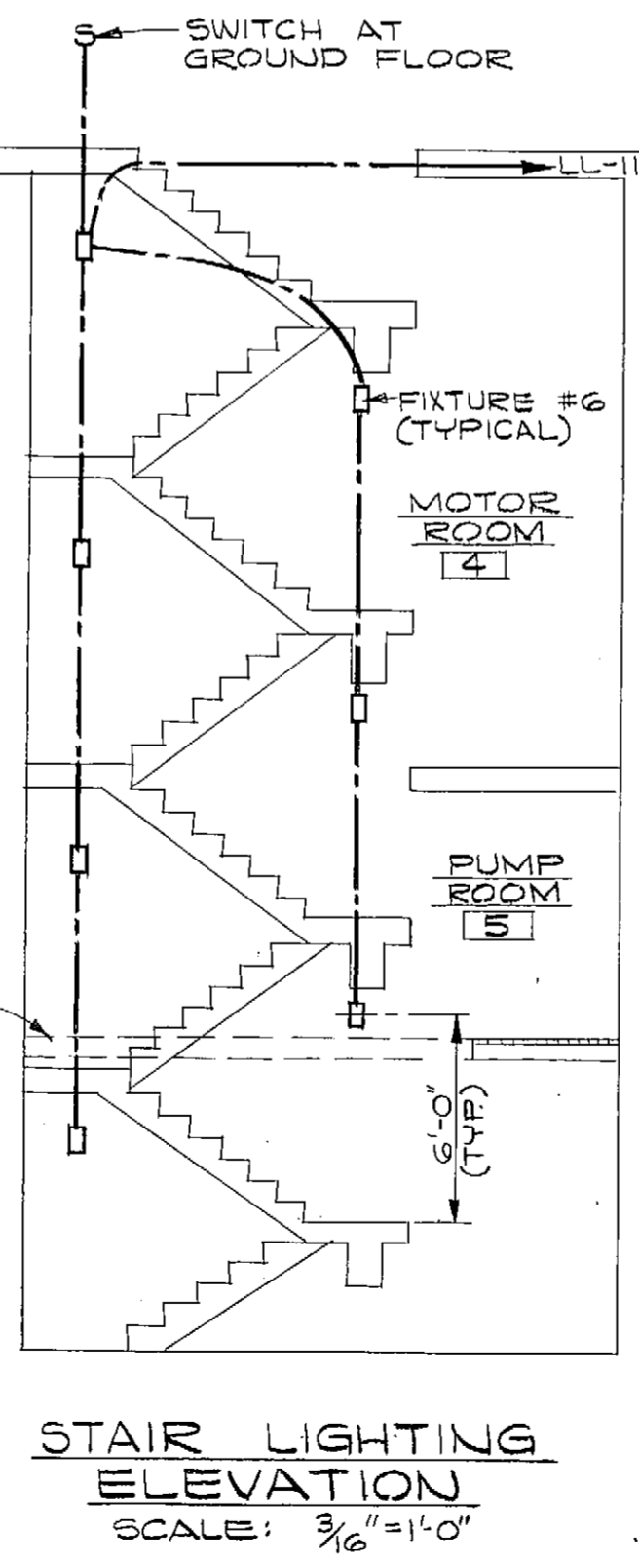
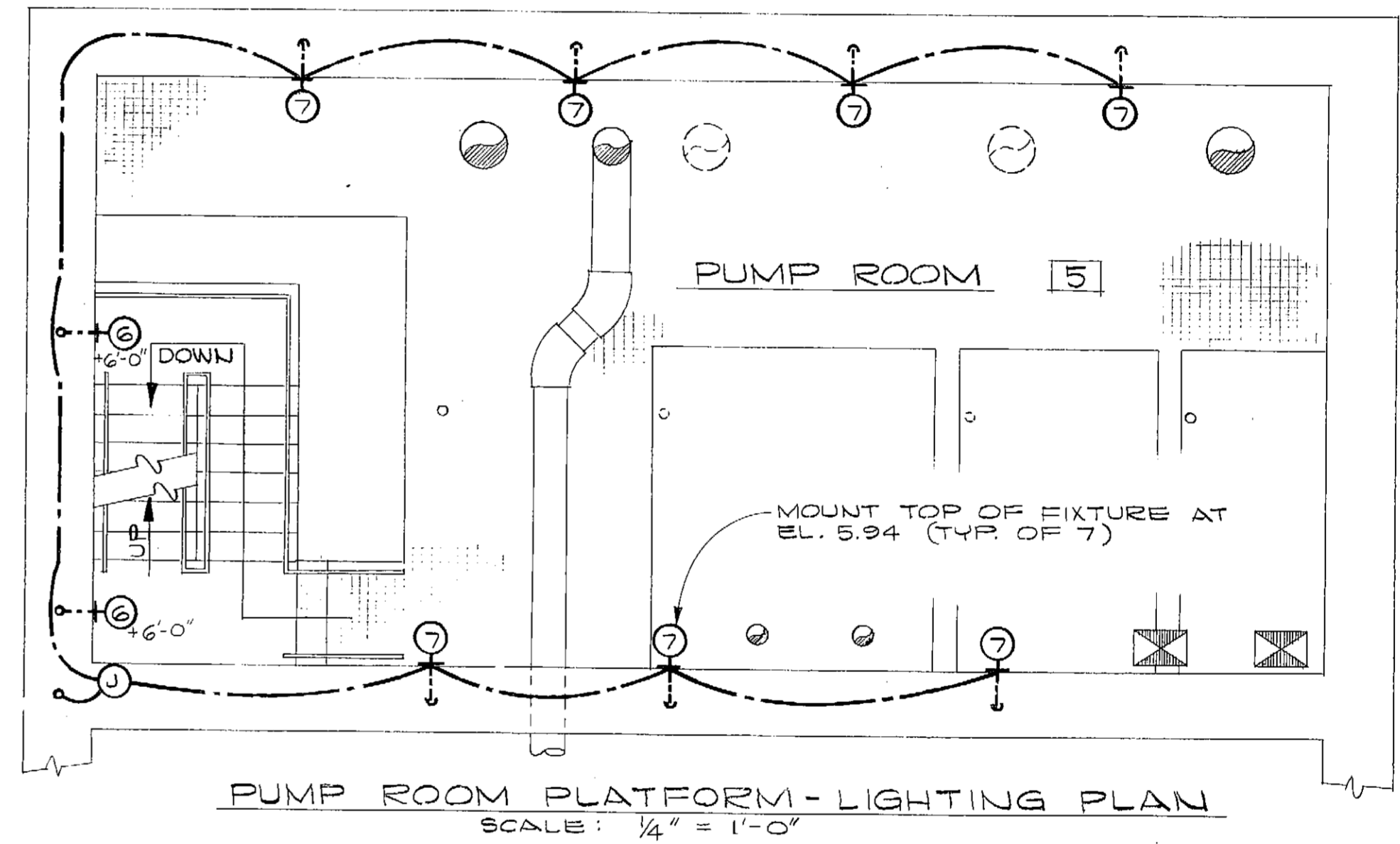
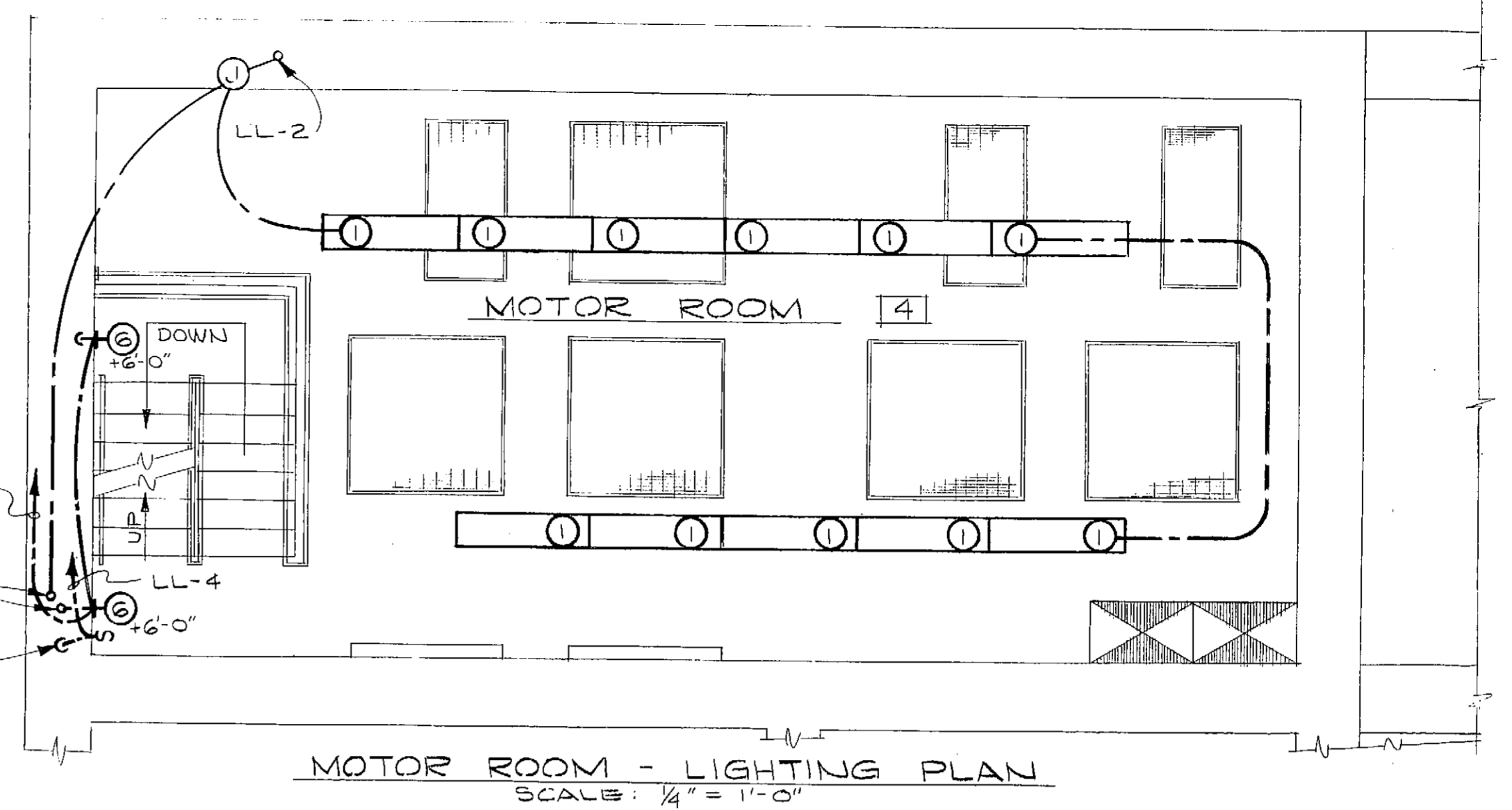
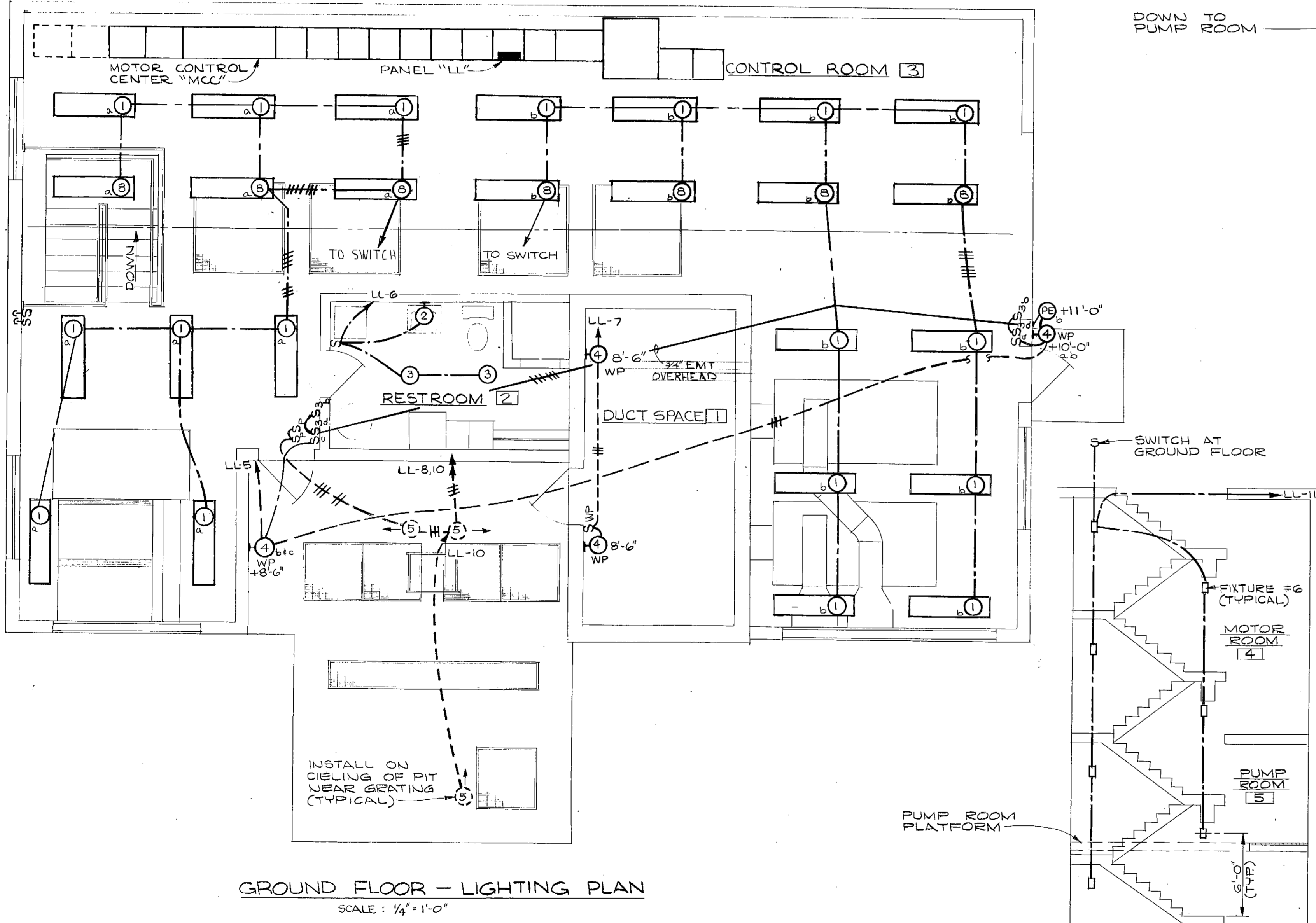
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
ELECTRICAL POWER PLANS



3392

FIXTURE SCHEDULE										
FIXT. NO.	MFG'R.	CAT. NO.	LAMP		MT'G.			REMARKS	277V	20V
			QTY	TYPE	C	R	W/P			
1	GUTH	M4420/120	2	F40CW			X	6" CHAIN MOUNTING	X	X
2	PRESCOLITE	WB-24	1	100A			X	W/GROUNDED OUTLET	X	X
3	BENJAMIN	ED-495	2	100A	X				X	X
4	STONCO	G62101G	1	200A			X	W/GUARD	X	X
5	APPLETON	G-6000-1	1	Q500T3	X			NARROW BEAM SPREAD	X	X
6	PRESCOLITE	4022	1	100A			X		X	X
7	GUTH	VP6762/120/E6	2	F40CW			X	MOUNT VERTICALLY WITH BRACKETS	X	X
8	GUTH	M4400/120	2	F40CW	X				X	X



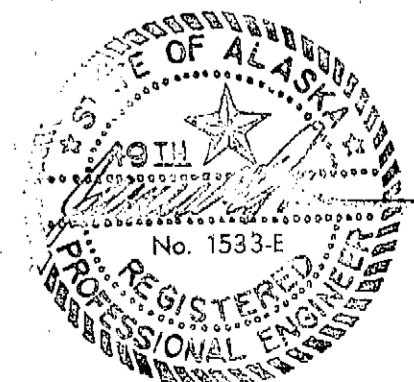
DESIGNED	LRI	APPROVED	<i>[Signature]</i>
DRAWN	W.H.R./D.R.S.	SCALE	AS SHOWN
DATE	7-29-74	FILE	70-P280-10144
REVISION	1	CHECKED	BCK

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

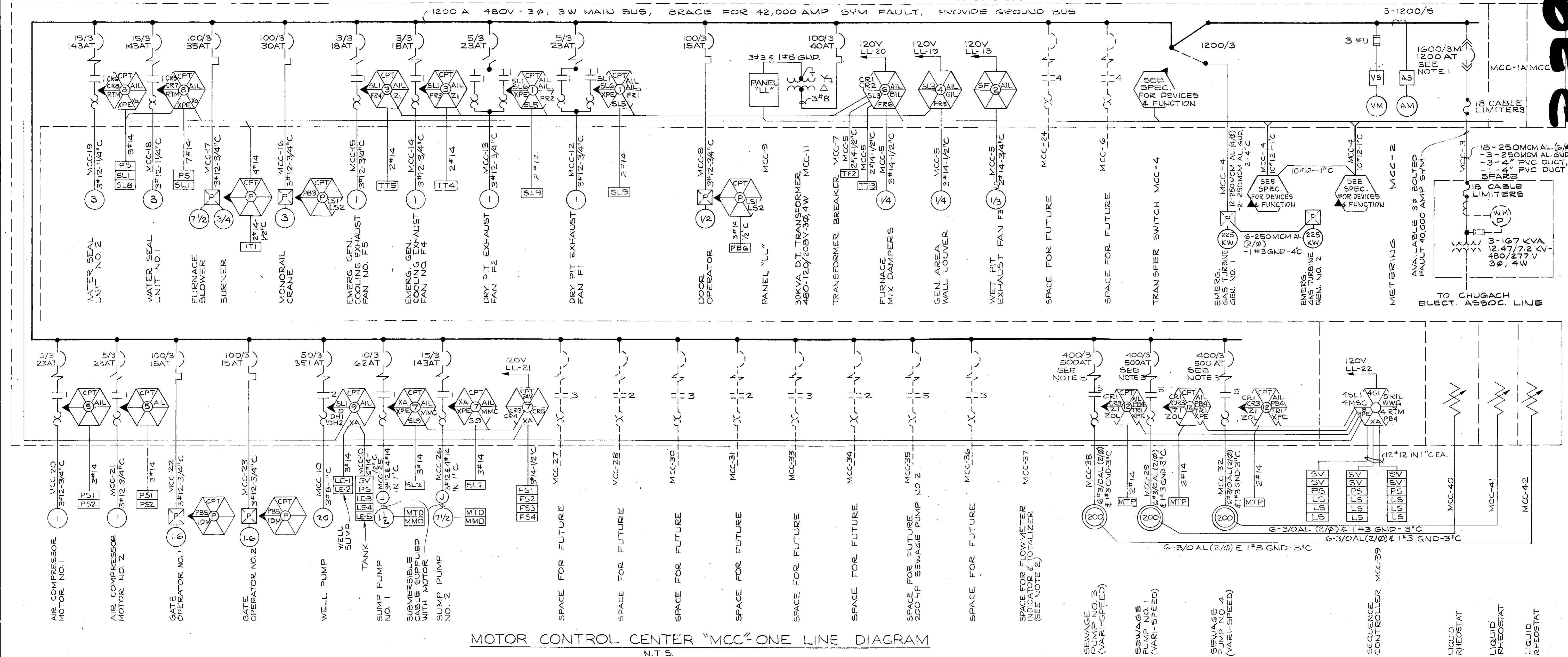
CAMPBELL CREEK PUMP STATION
LIGHTING PLANS



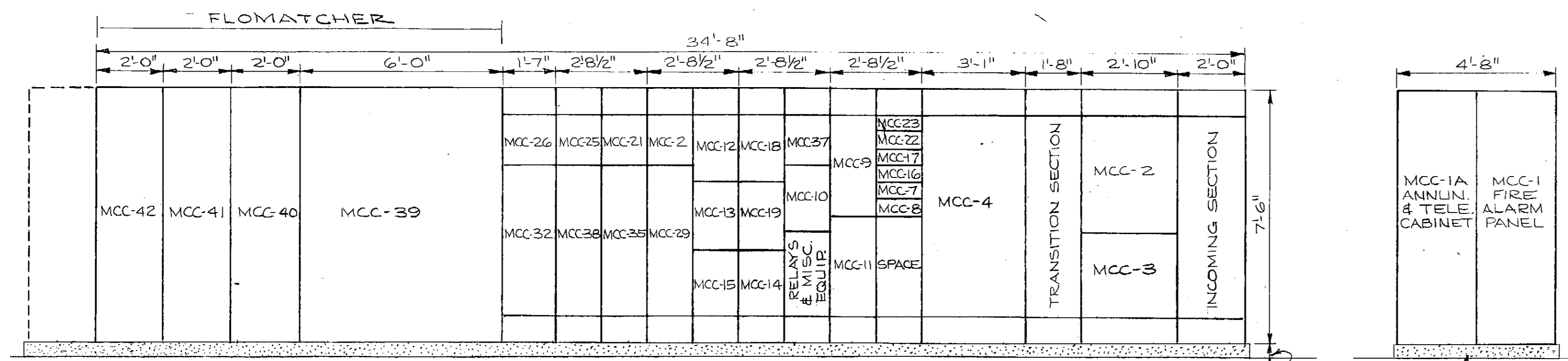
SHEET
E3
6

3393

NOTE 1. PROVIDE 1/2" POWER SENSOR TRIP OR EQUAL WITH 1200 A TAP CURRENT SENSOR, LONG TIME SET AT 10X TAP ON MINIMUM TIME BAND, SET SHORT TIME AT 2.0X TAP ON MINIMUM TIME BAND, SET INSTANTANEOUS ON 12.0X TAP. SET GND SENSOR ON 300A AT 0.06 SEC.

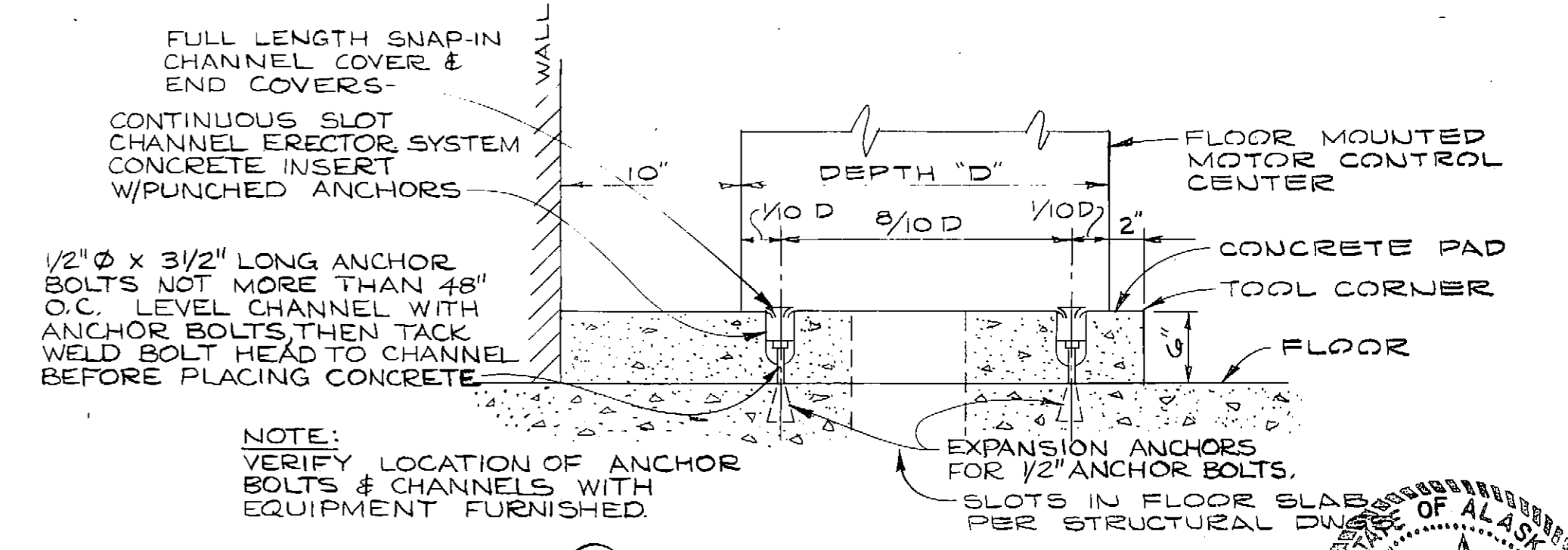


MOTOR CONTROL CENTER "MCC" ONE LINE DIAGRAM
N.T.S.



MOTOR CONTROL CENTER "MCC" ELEVATION
SCALE: 3/8" = 1'-0"

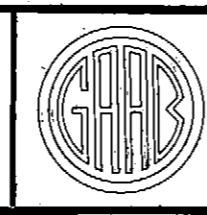
NOTES:
2. PROVIDE 18" MINIMUM DEPTH SPACE FOR FLOWMETER INDICATOR & TOTALIZER. PROVIDE VERTICAL BUS CONTINUATION TO STARTER BELOW WITH CABLE.
3. PROVIDE A CURRENT LIMITER WITH 14,000 AMP AVERAGE CLEARING TIME AT 0.01 SECONDS.



DETAIL 1
MOTOR CONTROL CENTER "MCC" PAD
SCALE: 1 1/2" = 1'-0"

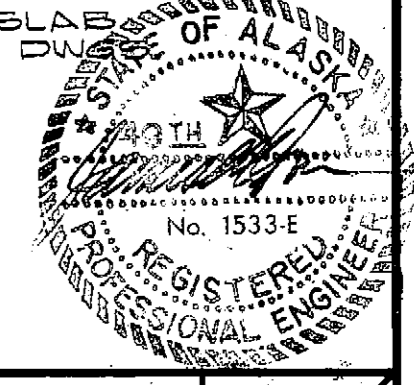
DESIGNED	LRI	APPROVED	<i>[Signature]</i>
DRAWN	DLF, DRB	SCALE	AS SHOWN
DATE	7-29-74	FILE	70-P680-10145
NO.	1	REVISION	REVISED AS CONSTRUCTED
CHECKED	ECK	BY	

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

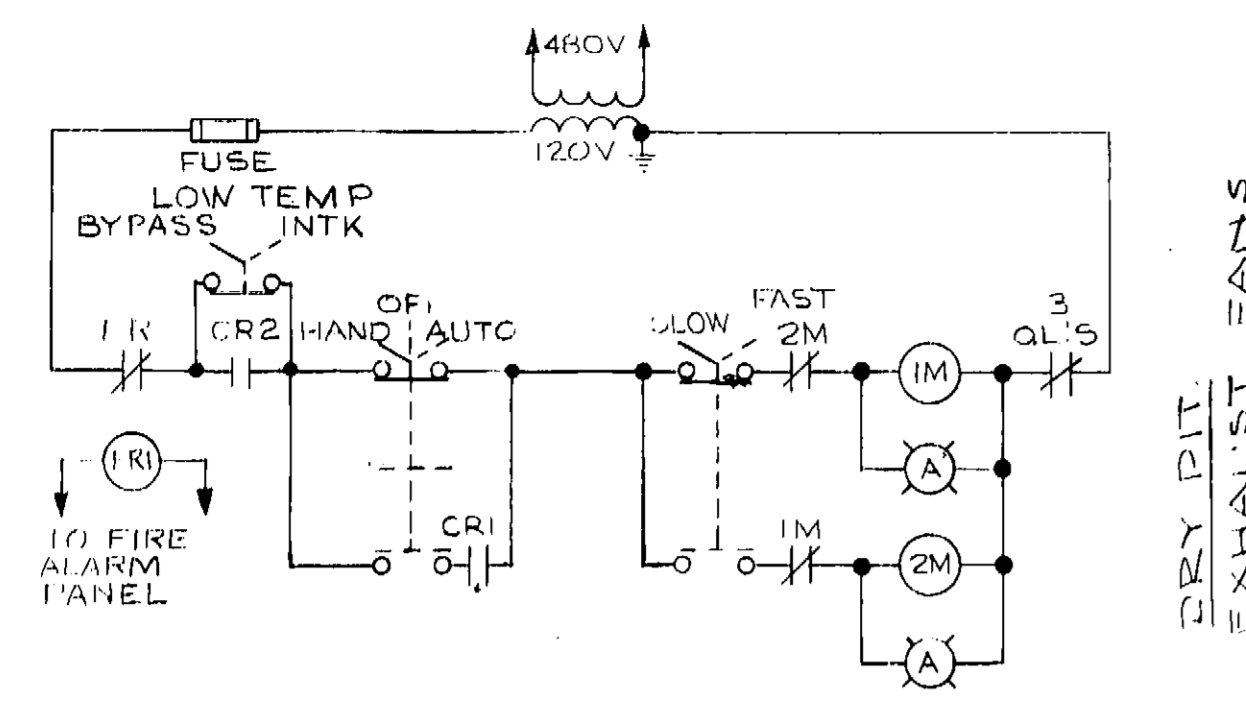


GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

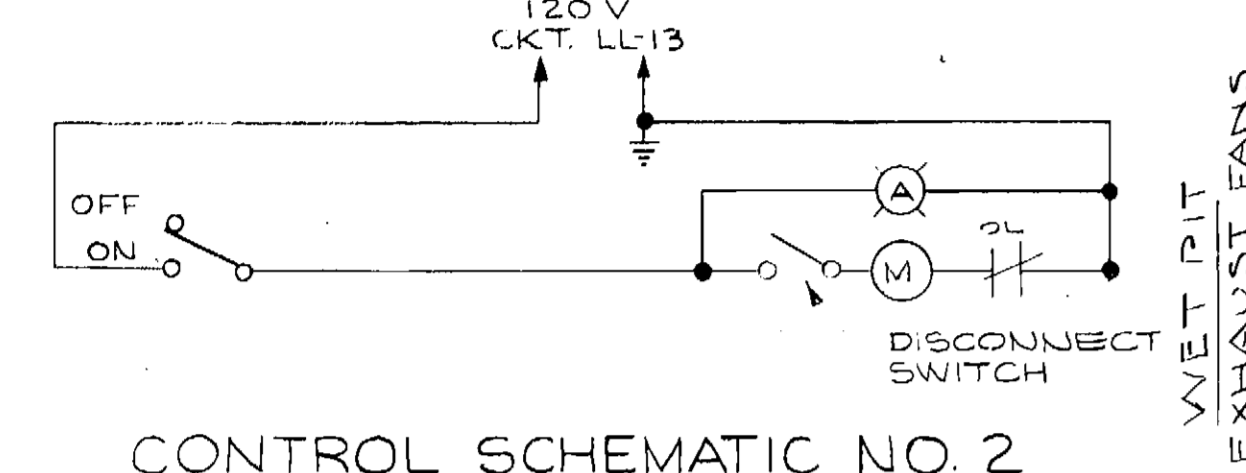
CAMPBELL CREEK PUMP STATION
ONE LINE DIAGRAM & ELEVATION



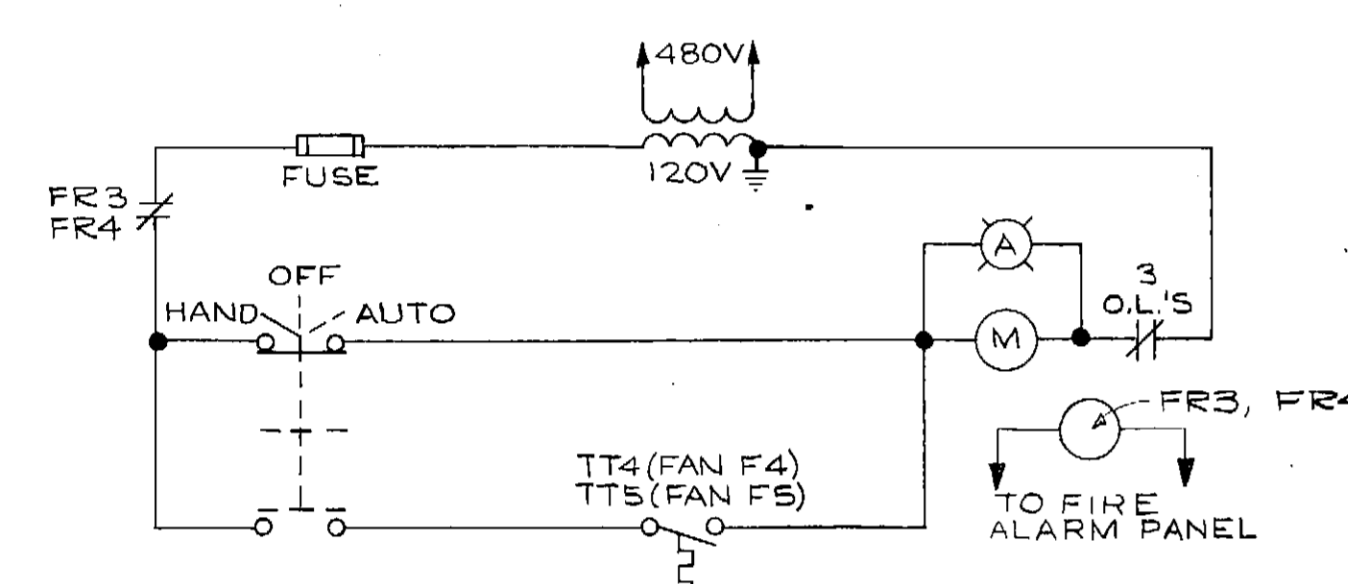
3394



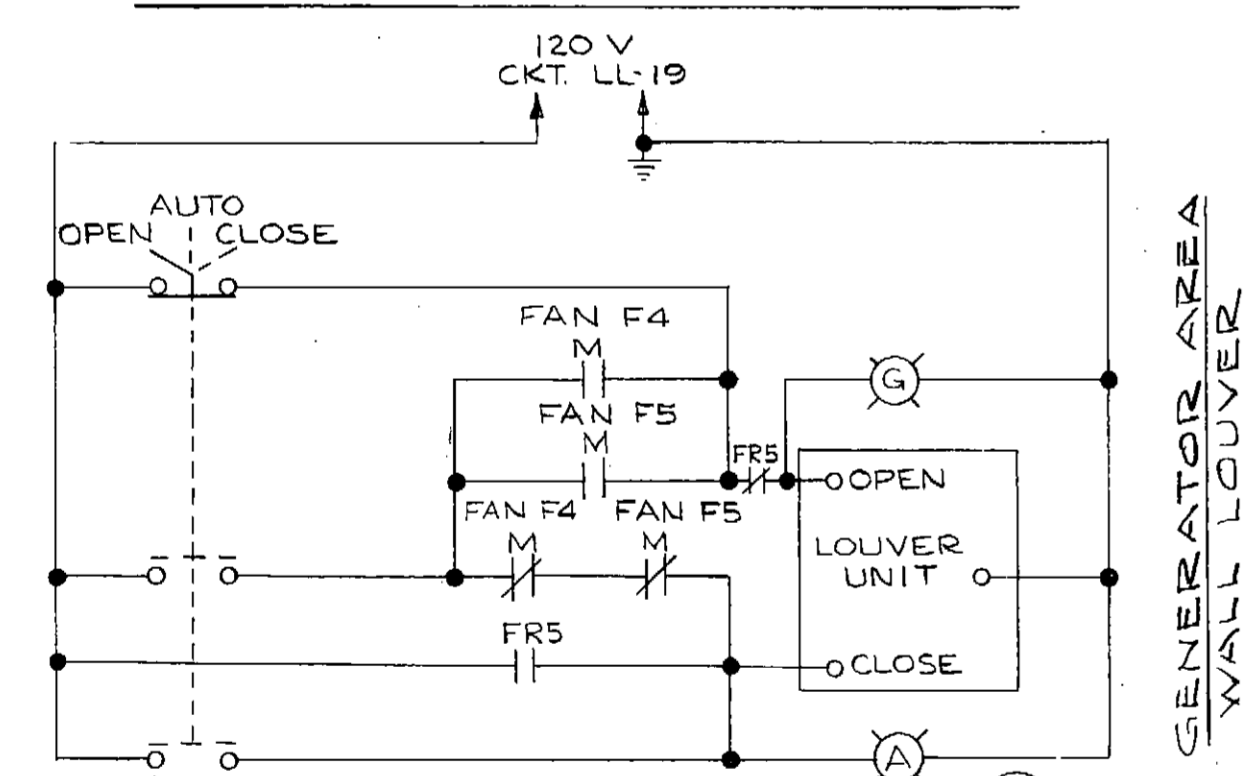
CONTROL SCHEMATIC NO. 1



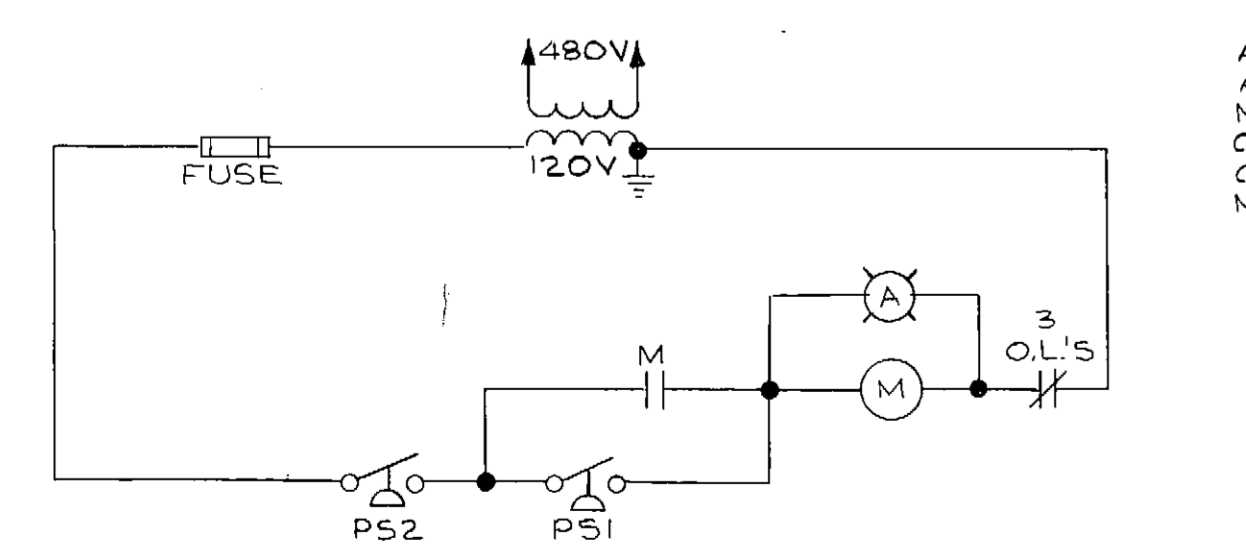
CONTROL SCHEMATIC NO. 2



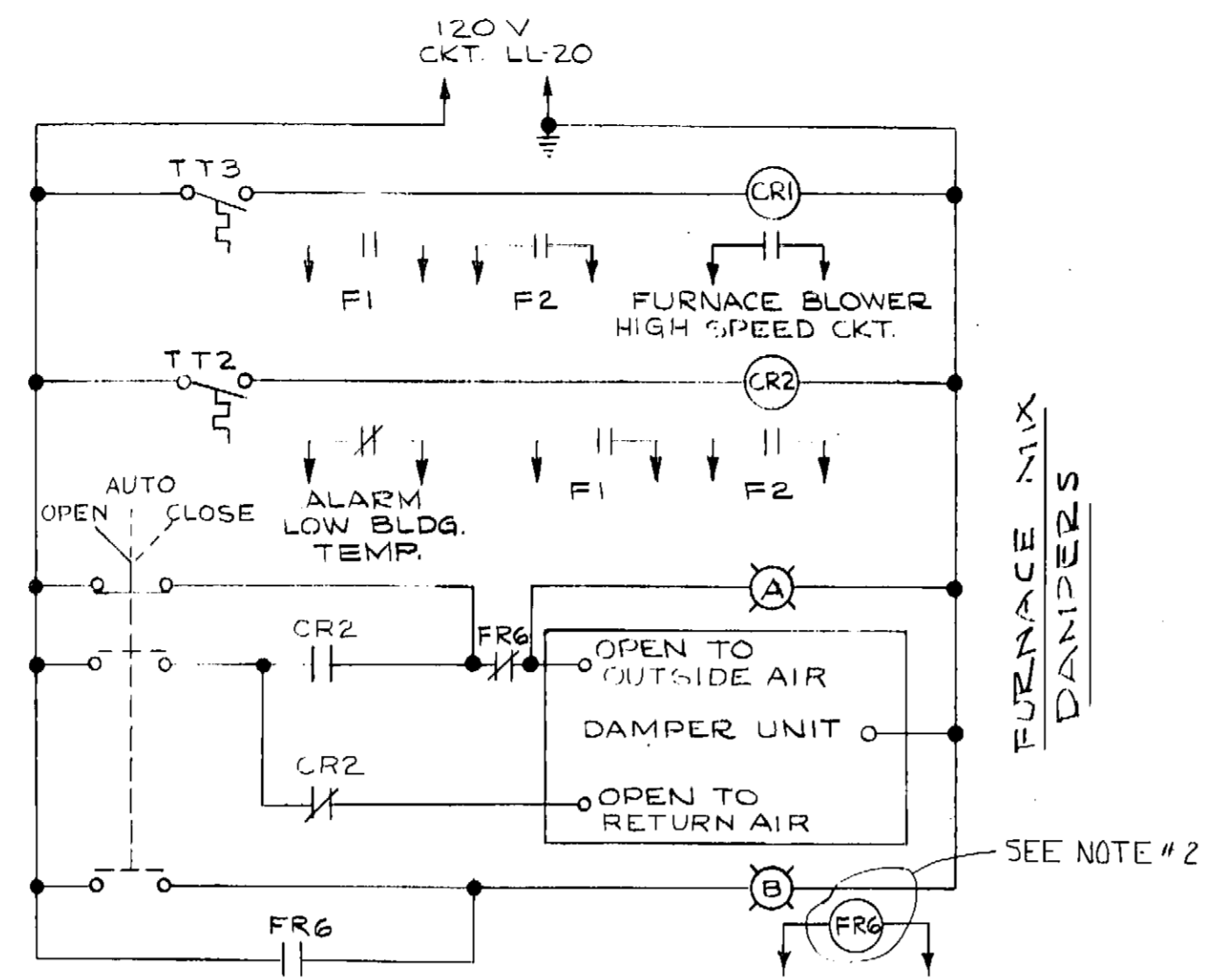
CONTROL SCHEMATIC NO. 3



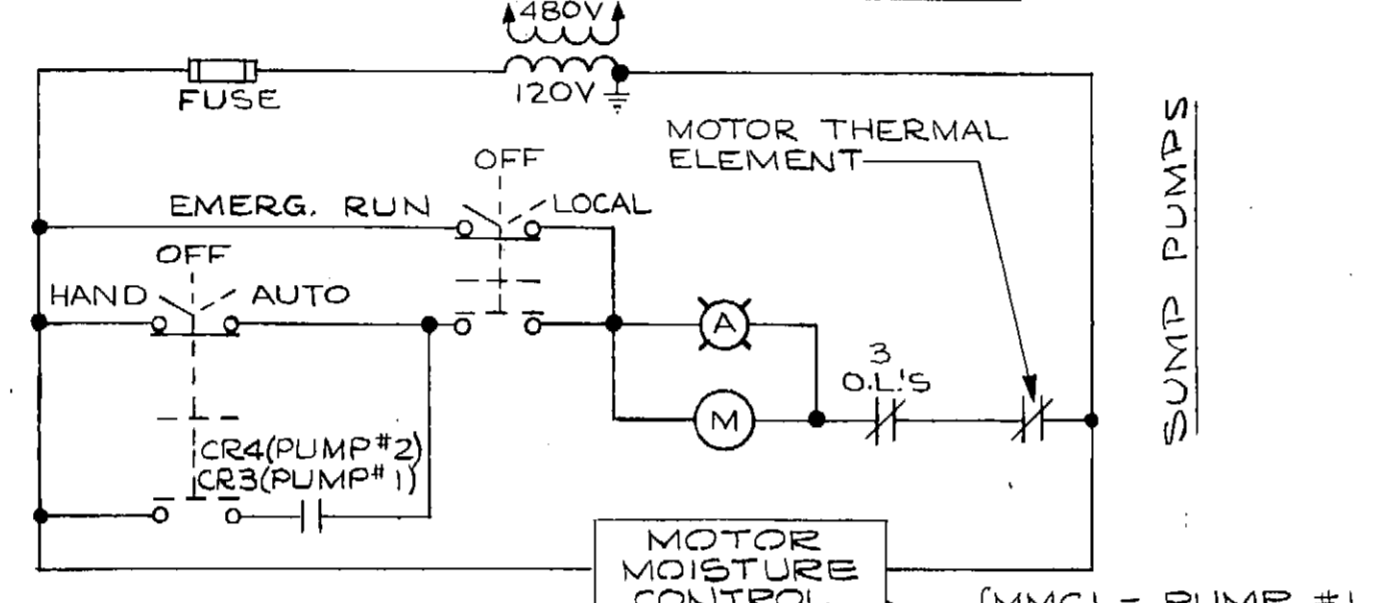
CONTROL SCHEMATIC NO. 4



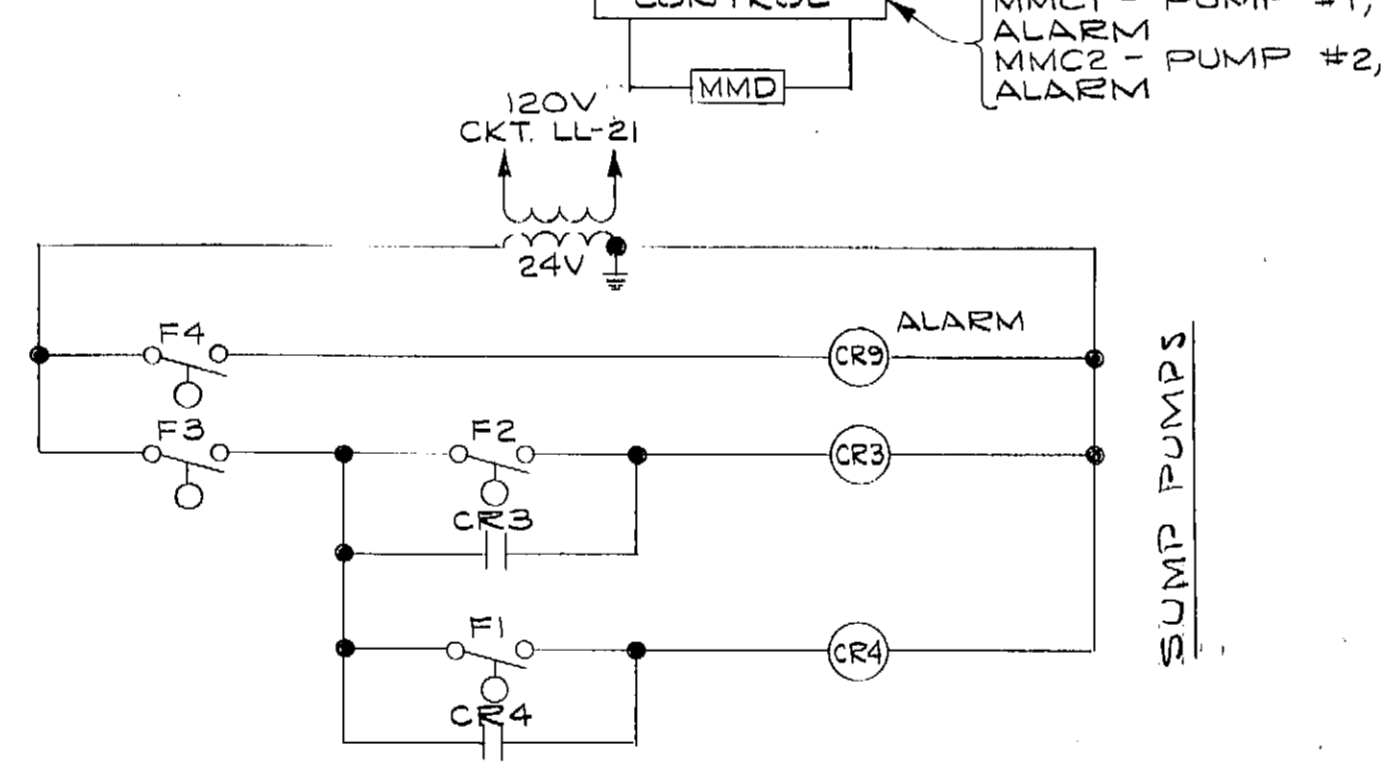
CONTROL SCHEMATIC NO. 5



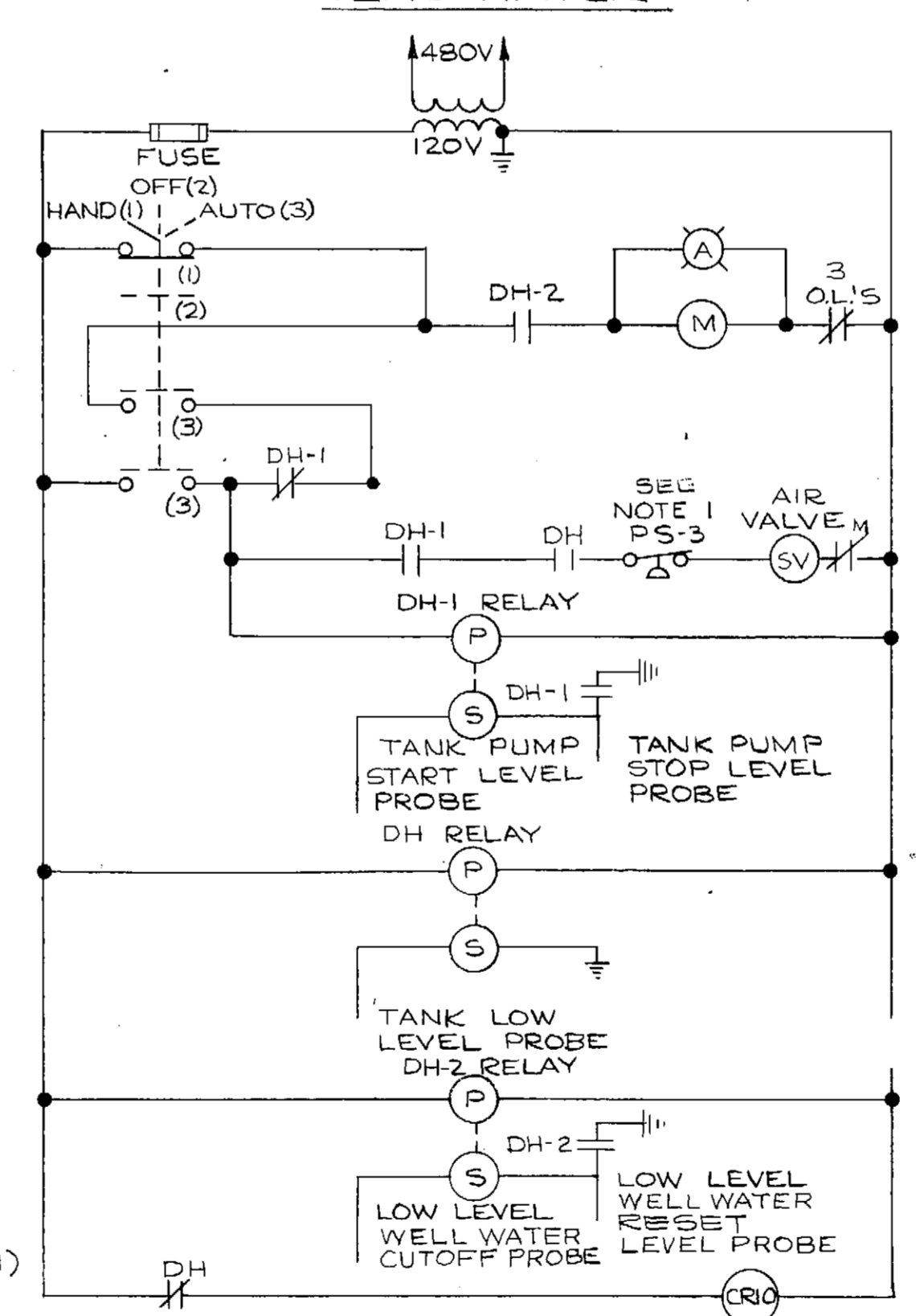
CONTROL SCHEMATIC NO. 6



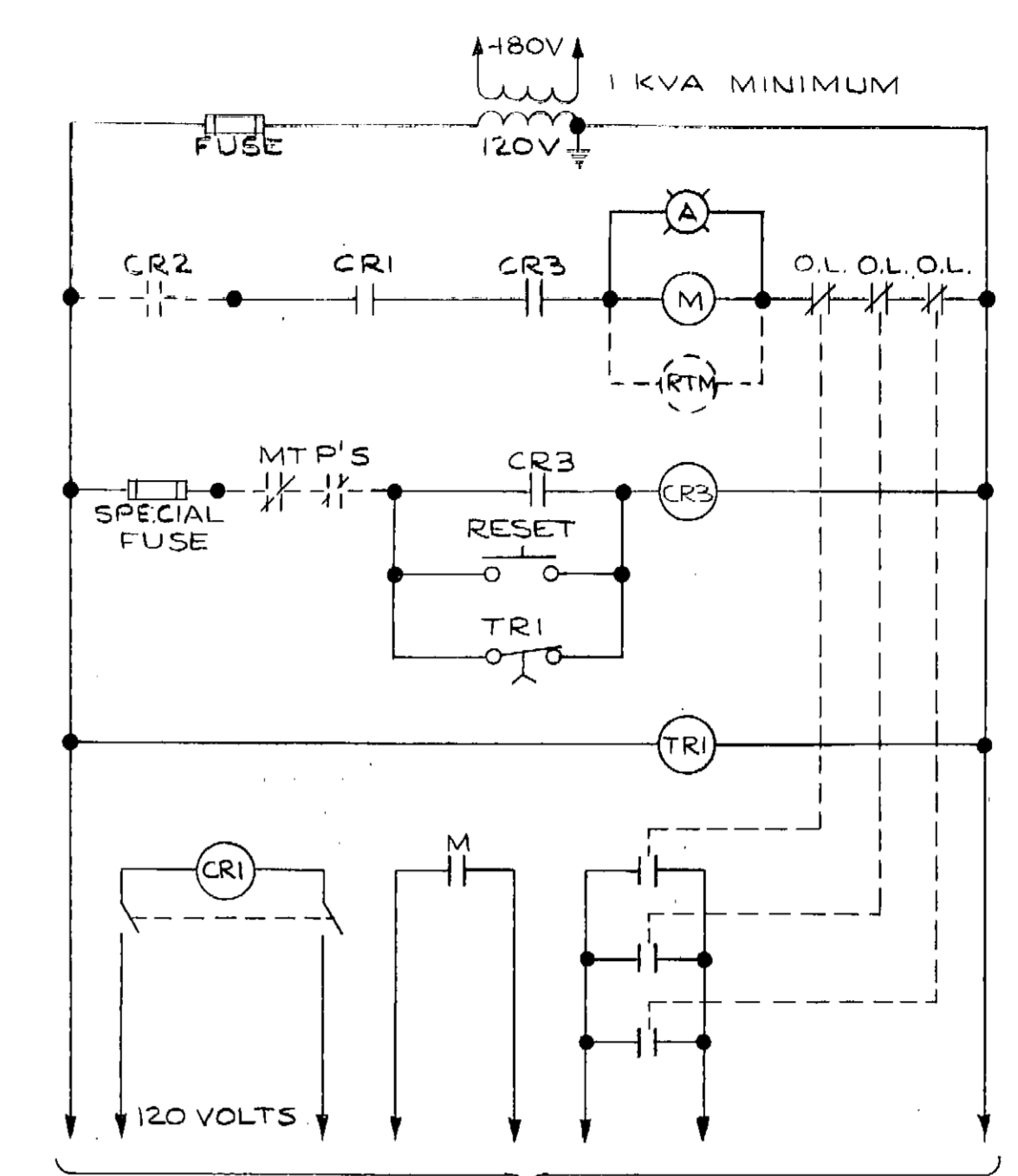
CONTROL SCHEMATIC NO. 7



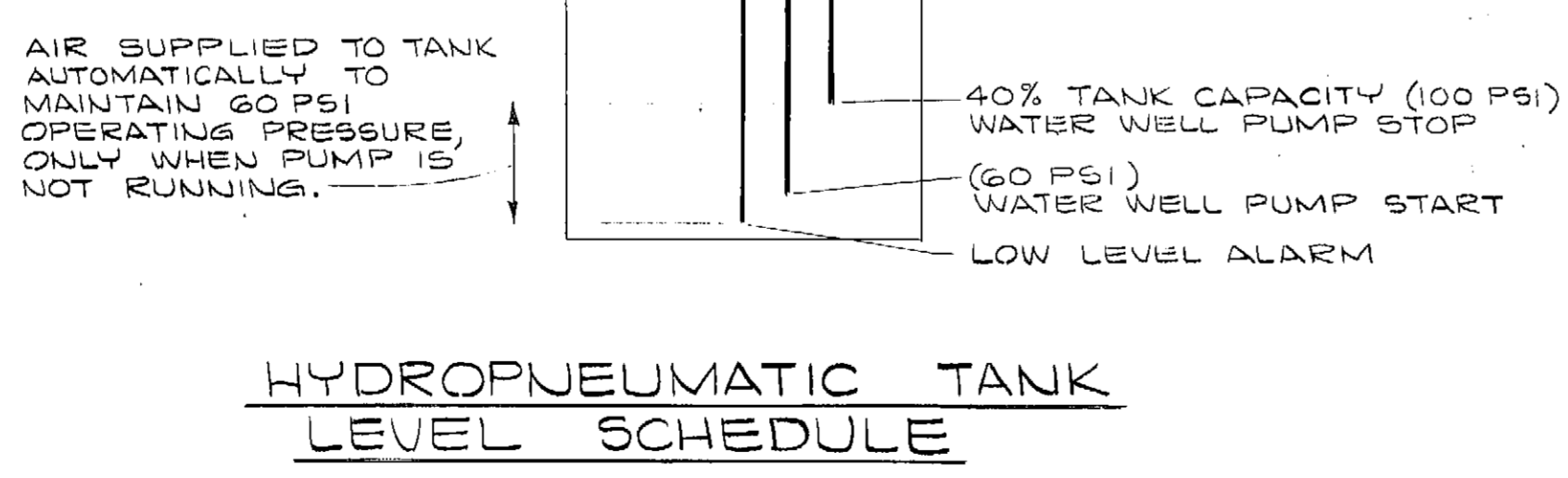
CONTROL SCHEMATIC NO. 8



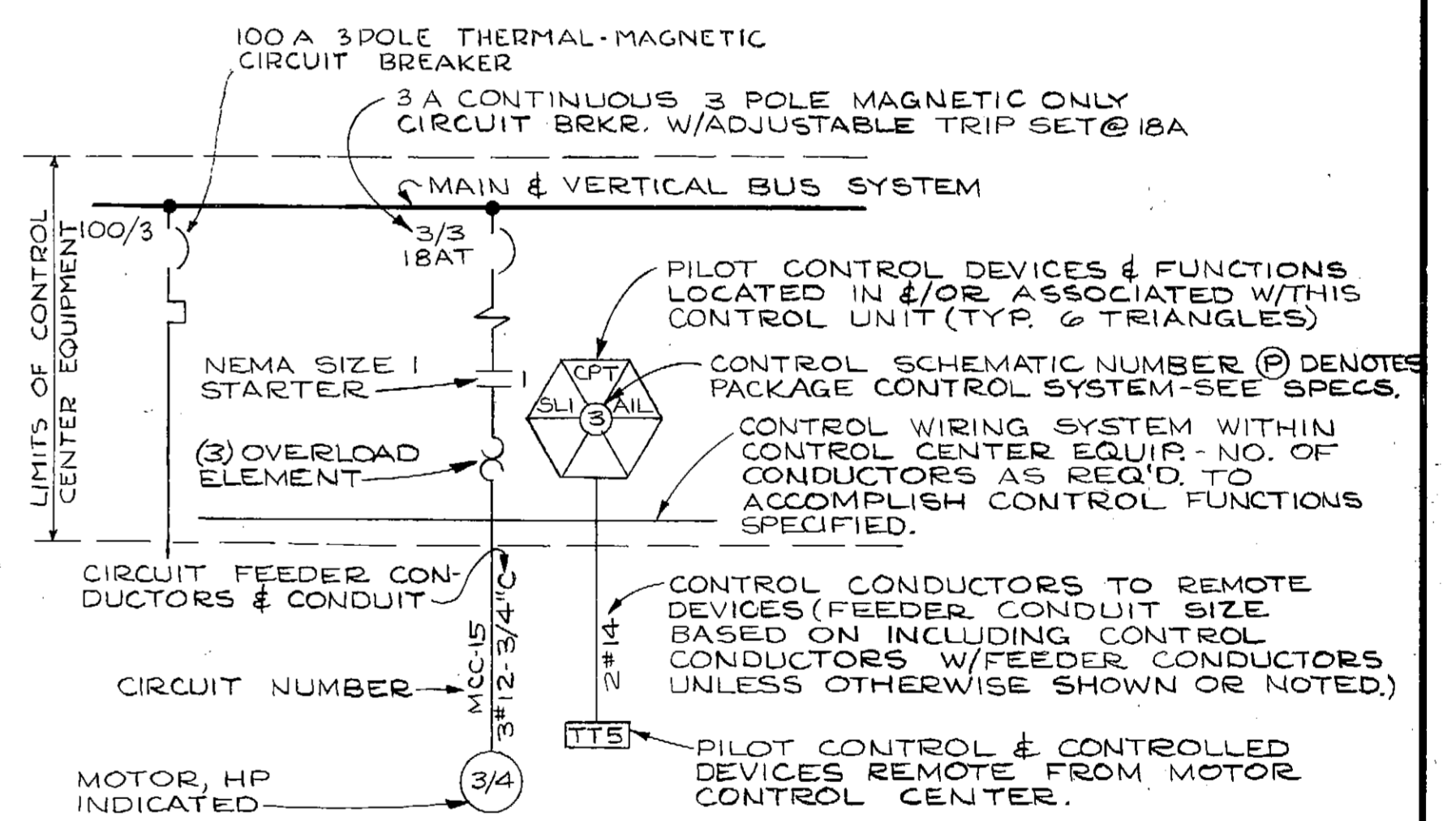
CONTROL SCHEMATIC NO. 9



CONTROL SCHEMATIC NO. 12

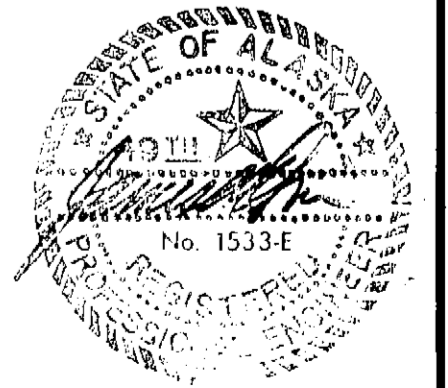


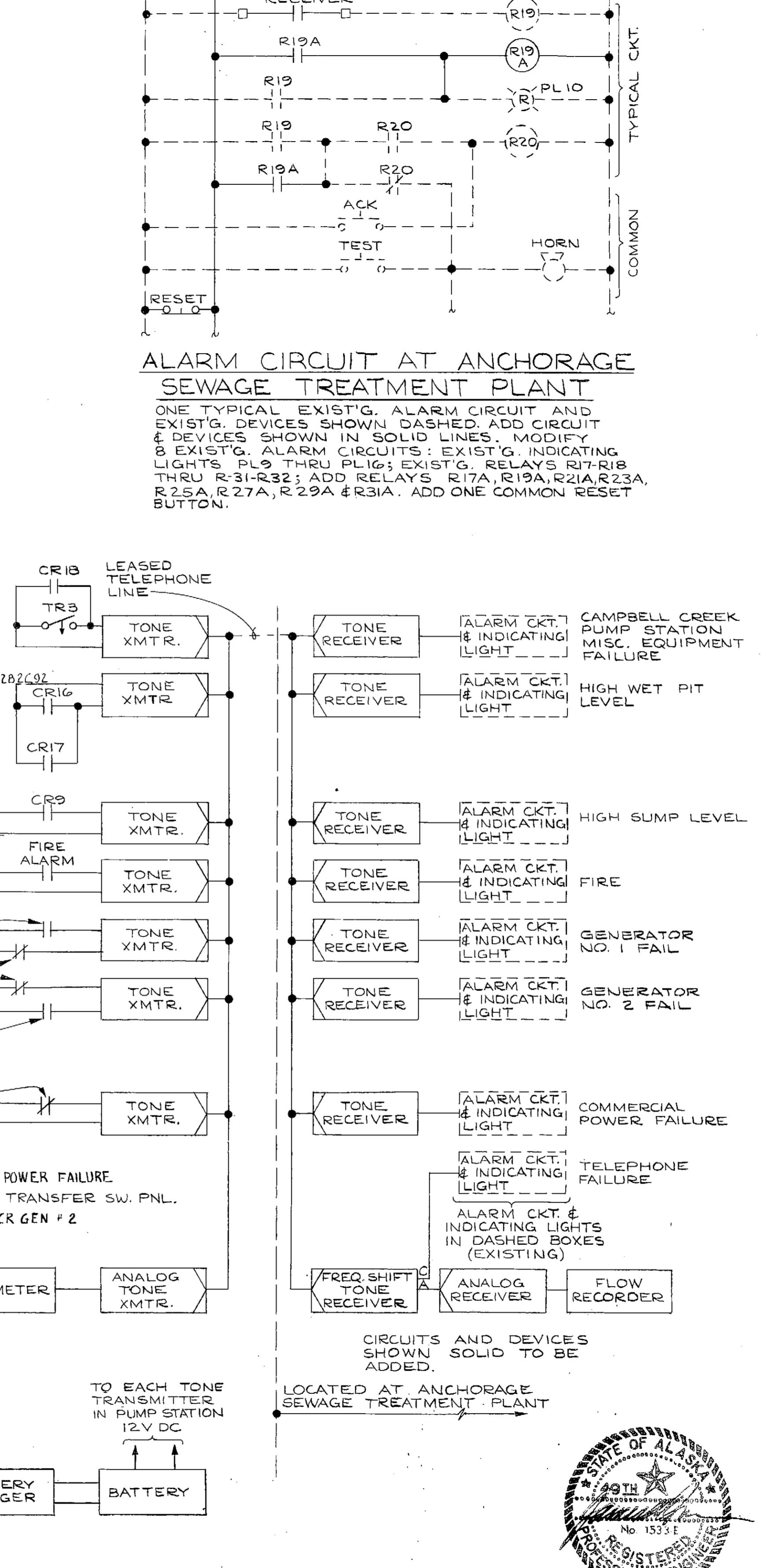
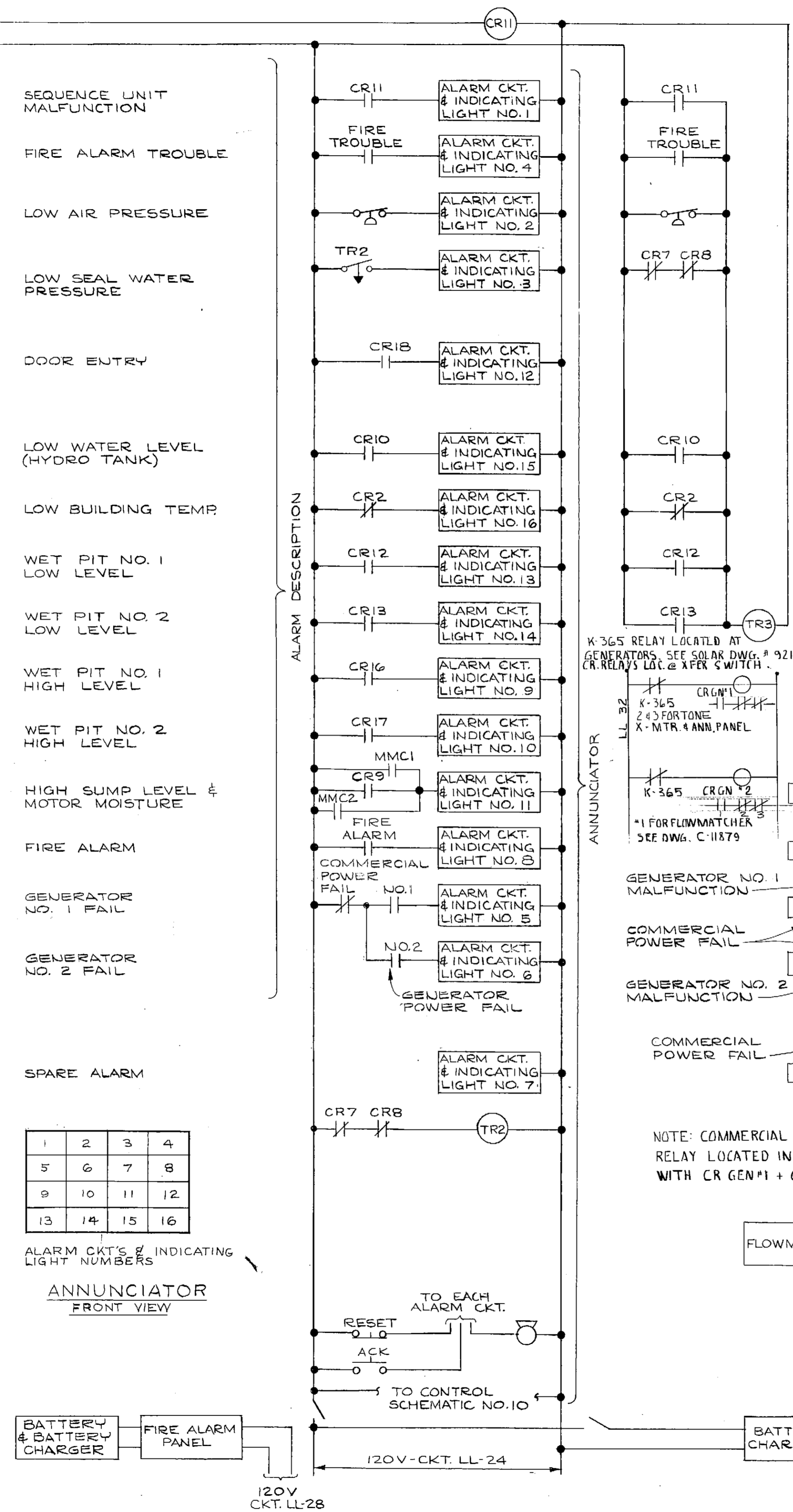
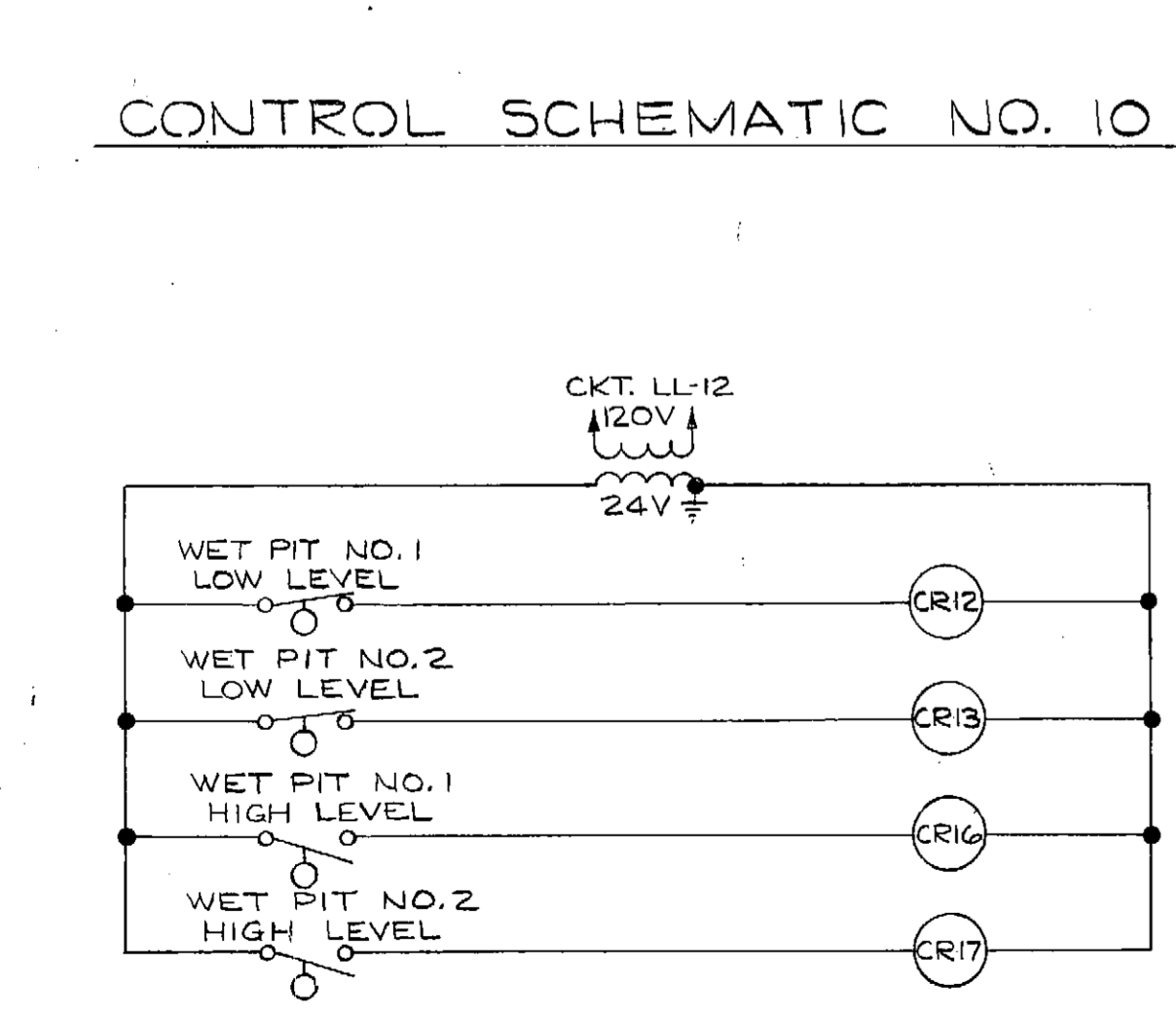
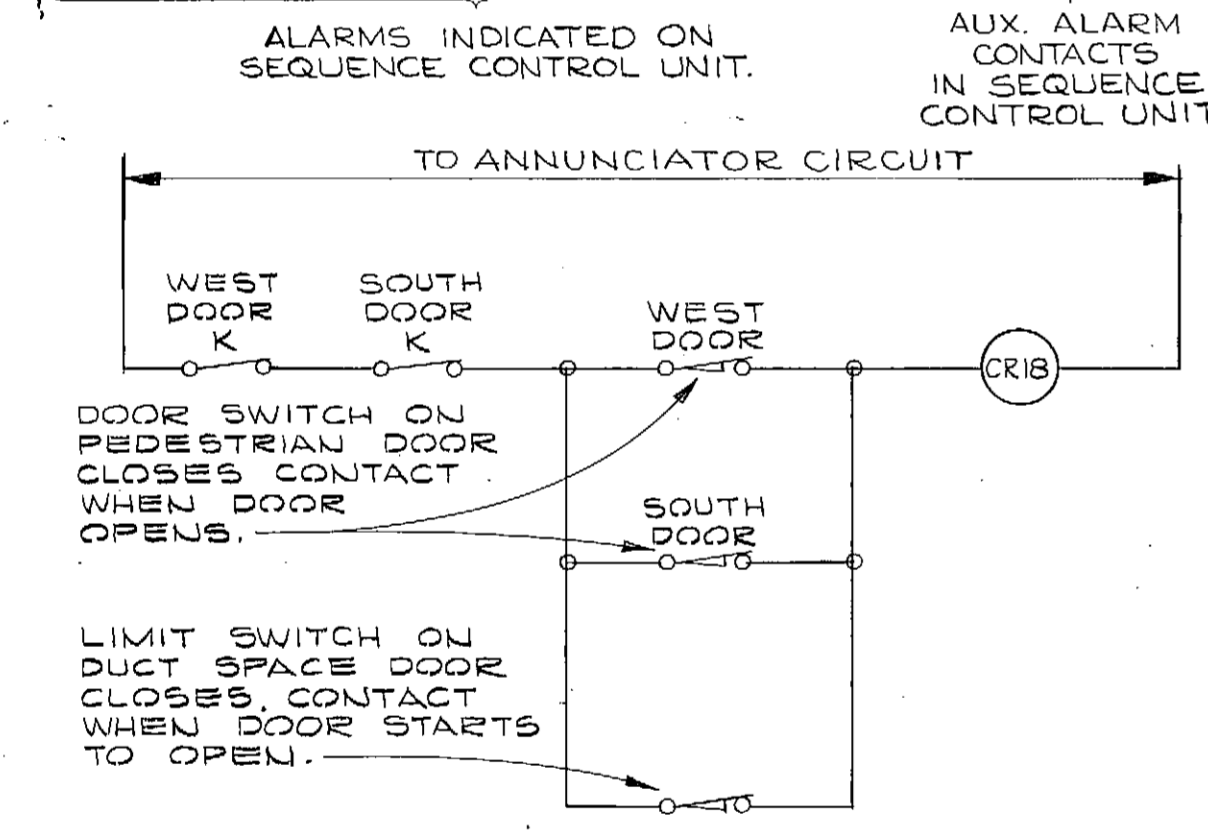
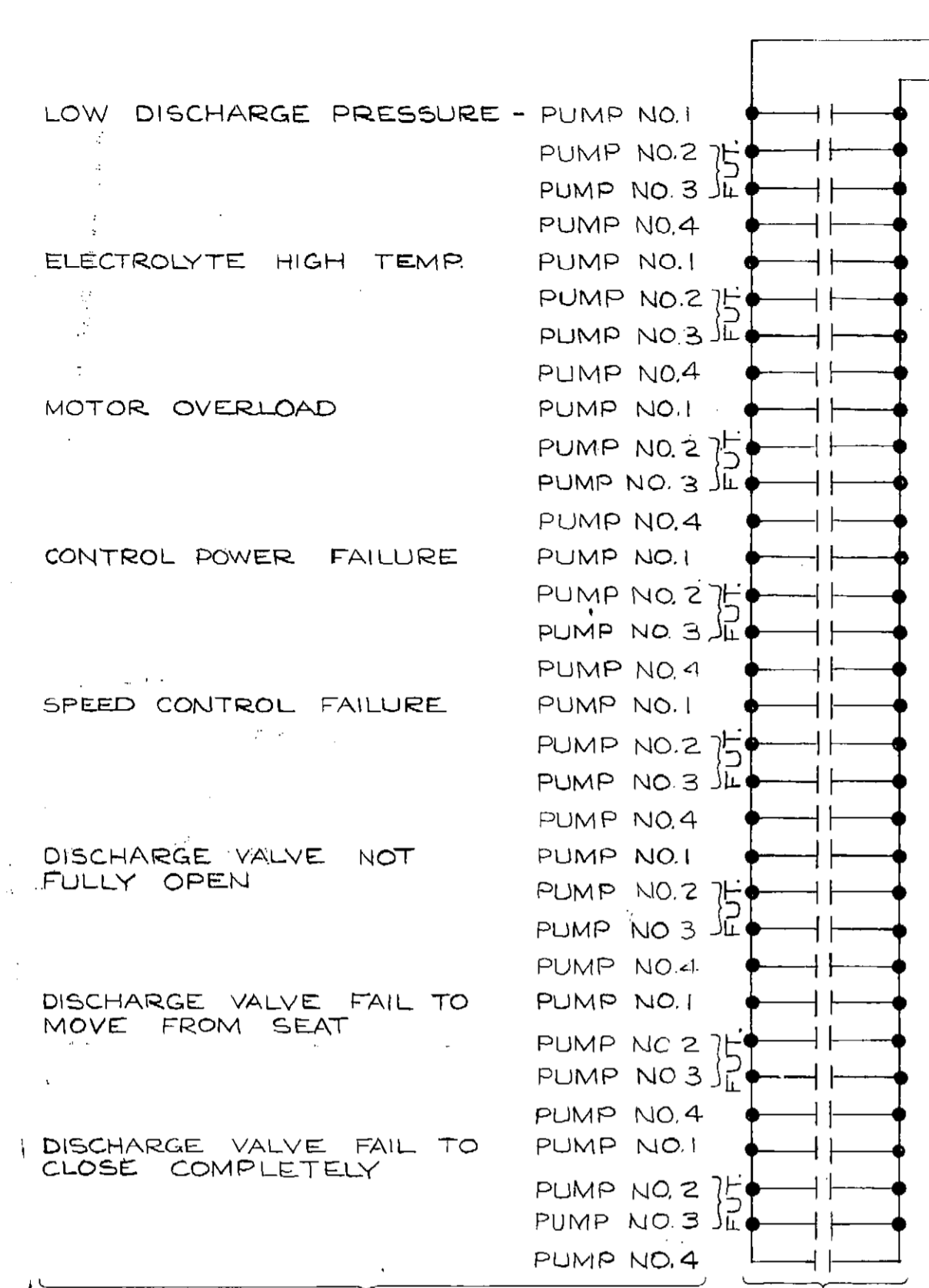
HYDROPNEUMATIC TANK LEVEL SCHEDULE



TYPICAL ONE LINE DIAGRAM SYMBOLS

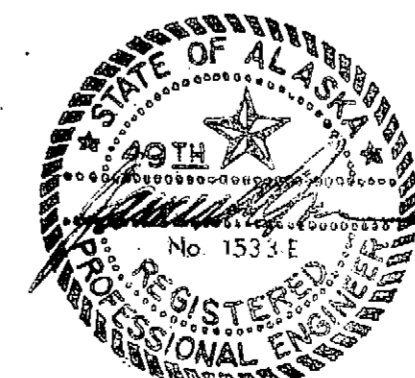
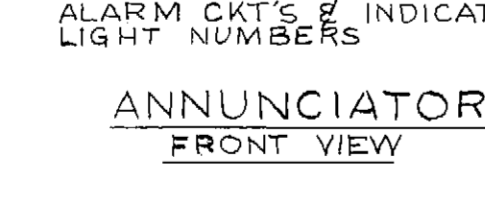
- NOTES:
1. PRESSURE SWITCH PS-3 SHALL HAVE AN ADJUSTABLE RESET SETTING RANGE (0-150 PSI) AND AN ADJUSTABLE DIFFERENTIAL RANGE (2-18 PSI). SET AT 60 PSI RESET AND 2 PSI DIFFERENTIAL.
 2. ALL FR RELAYS ARE ON COMMON CIRCUIT.





- ### CONTROL KEY
- CR1, CR2, ETC. - CONTROL RELAY FOR FUNCTION DETAILED
 - D, DH, DH2 - INDUCTION CONTROL RELAY FOR FUNCTION DETAILED
 - CPT - CONTROL POWER TRANSFORMER AND FUSE
 - PB3 - RAISE (2-SPEED) - LOWER PUSHBUTTON STATION
 - PB4 - RESET PUSHBUTTON
 - PB5 - OPEN-CLOSE-STOP PUSHBUTTON STATION
 - PB6 - RAISE-LOWER PUSHBUTTON STATION
 - PB7 - ALARM SILENCE PUSHBUTTON
 - SF - FAN SWITCH
 - SL1 - HAND-OFF-AUTO SELECTOR SWITCH
 - SL2 - WEATHERPROOF HAND-OFF-AUTO SELECTOR SWITCH, NEMA 4
 - SL3 - OPEN-CLOSE-AUTO SELECTOR SWITCH
 - SL4 - MANUAL-OFF-AUTO SELECTOR SWITCH
 - SL5 - SLOW-FAST SELECTOR SWITCH
 - SL6 - LOW TEMP. BYPASS-INTERLOCK SELECTOR SWITCH
 - SL8 - PUMP NO. 1 BASE - PUMP NO. 2 BASE SELECTOR SWITCH
 - SL9 - STOP-RUN SELECTOR SWITCH
 - AIL - AMBER INDICATING LIGHT
 - RIL - RED INDICATING LIGHT
 - GIL - GREEN INDICATING LIGHT
 - BIL - BLUE INDICATING LIGHT
 - SV - SOLENOID VALVE
 - FR - FIRE ALARM PERMISSIVE CONTACT LOCATED IN THIS DEVICE
 - TT - THERMOSTAT
 - XA - INTERLOCK FOR REMOTE ALARM
 - LE - LEVEL ELECTRODES
 - PS - PRESSURE SWITCH
 - LS - LIMIT SWITCH
 - RTM - RUNNING TIME METER
 - IDM - INTERNAL DISCONNECTING MEANS
 - XPE - REMOTE INTERLOCKS OR RELAY CONTACTS CONNECTED AS A PERMISSIVE ELEMENT IN THIS DEVICE
 - ZI - AUXILIARY CONTACT FOR FUNCTION DETAILED
 - MTP - MOTOR THERMAL PROTECTION
 - FS - FLOAT SWITCH
 - WWG - WET WELL GAGE
 - MSC - MANUAL SPEED CONTROL
 - SI - SPEED INDICATOR
 - TR, TR1, ETC. - TIMING RELAY FOR FUNCTION DETAILED
 - ZOL - SPDT OVERLOAD RELAYS FOR FUNCTION DETAILED
 - MTD - MOTOR WINDING TEMPERATURE DETECTORS
 - MMD - MOTOR MOISTURE DETECTOR
 - MMC - MOTOR MOISTURE CONTROL W/F FRONT MTD, TEST SWITCH, GREEN INDICATING LIGHT & ALARM.
 - AM - AMMETER
 - VM - VOLTMETER
 - AS - AMMETER SWITCH
 - VS - VOLTMETER SWITCH
 - ACK - ACKNOWLEDGE PUSHBUTTON
 - FU - FUSE
- NOTE: RELAYS TR2 & TR3 SHALL HAVE A 0 TO 180 SEC. RANGE. SET RELAY TR3 AT 180 SEC. SET RELAY TR2 AT 60 SEC.

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16



DESIGNED LRI
 DRAWN DLF, DRS
 7-29-74
 REVISION 1
 REVISED AS CONSTRUCTED

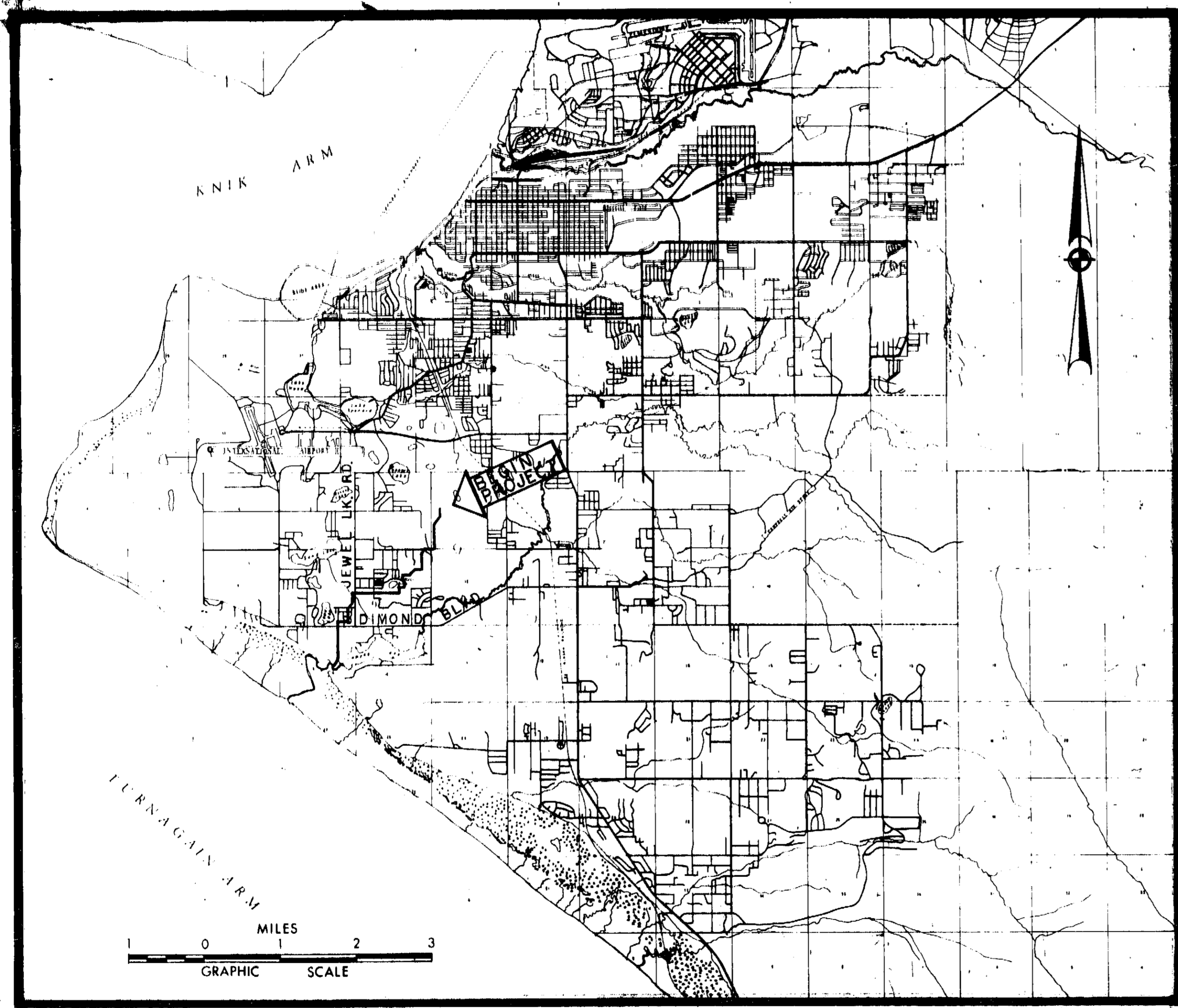
BOROUGH ENGINEERS
 A JOINT VENTURE
 TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
CONTROL SCHEMATICS

SHEET
E 6
 6

0795



VICINITY MAP



GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

TURNAGAIN INTERCEPTOR

CONTRACT NO.
16

W.P.C. - ALASKA - 22

BOROUGH ENGINEERS

A JOINT VENTURE

TRYCK, NYMAN & HAYES - STEVENS, THOMPSON, RUNYAN & ASSOC.
ANCHORAGE PORTLAND - SEATTLE

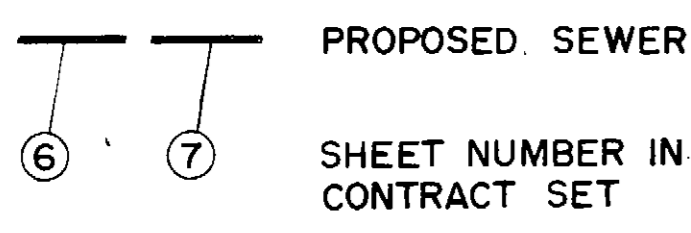
APPROVED *Alfred J. Carls*
GAAB DIRECTOR OF PUBLIC WORKS

APPROVED *Frank J. Nyman*
BOROUGH ENGINEERS

0796

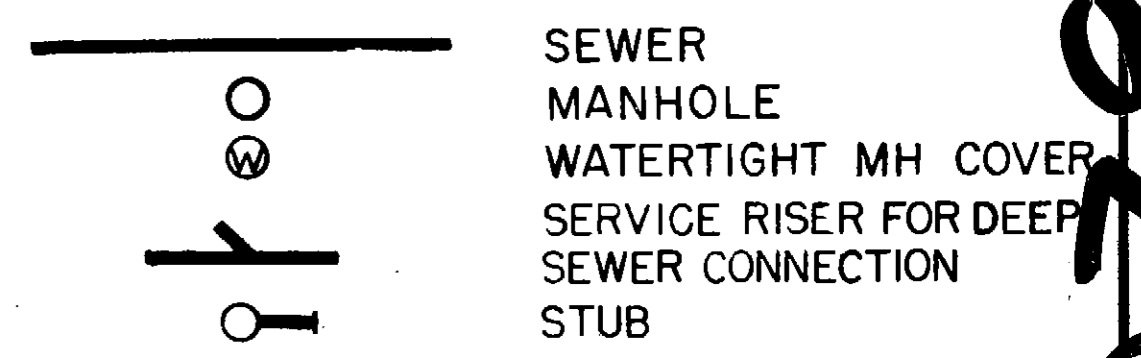
INDEX MAP

LEGEND

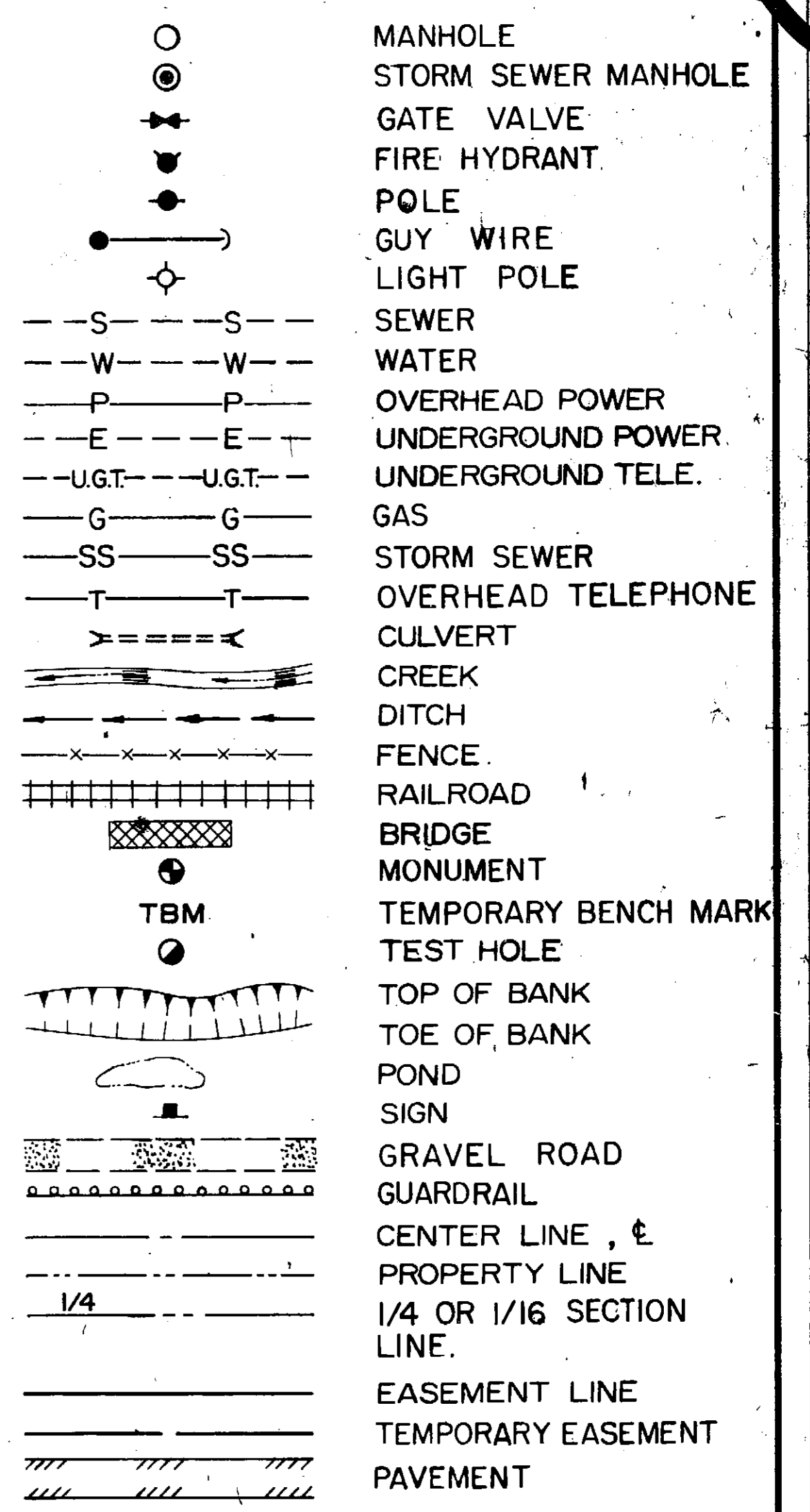


LEGEND
PLAN & PROFILE

PROPOSED

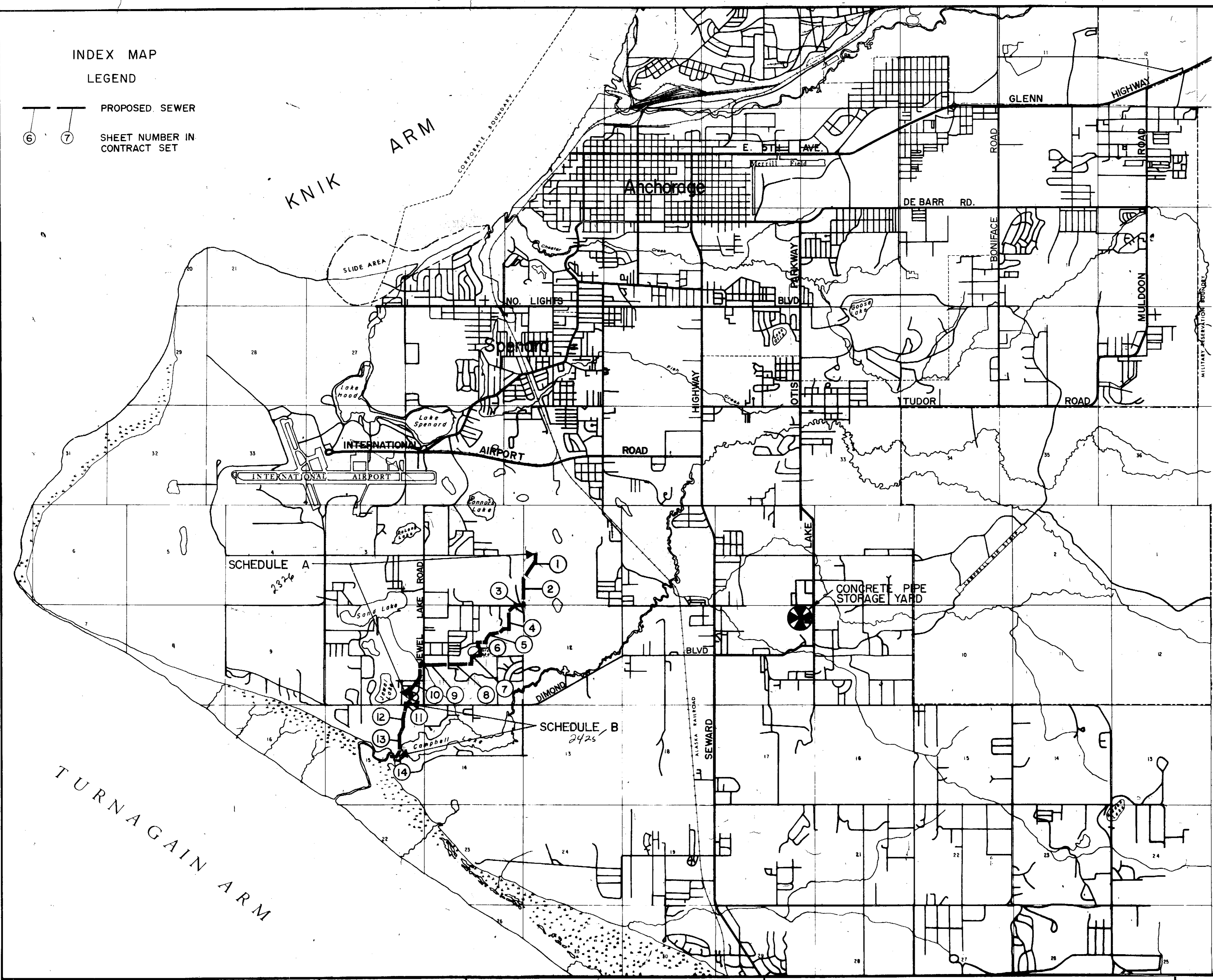
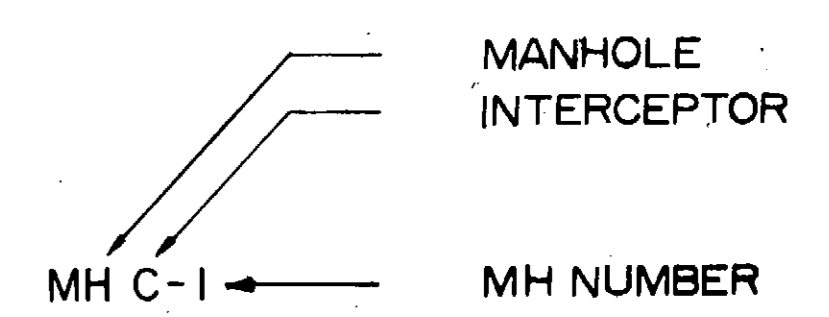


EXISTING



SHEET	
C	2
2 OF 25	

INTERCEPTOR SHEET NO.
SHEET NO. IN CONTRACT SET.



DATE	NO.	REVISION	BY

DESIGNED	APPROVED	SCALE	DATE
DRAWN	<i>P.M.</i>	2"=1 MILE	
CHECKED	FILE	2550	

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

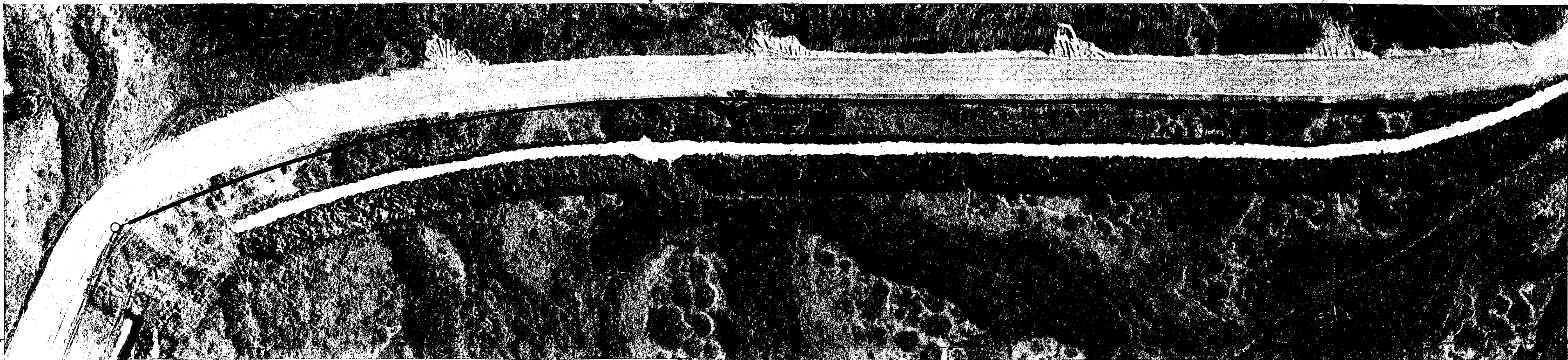


GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

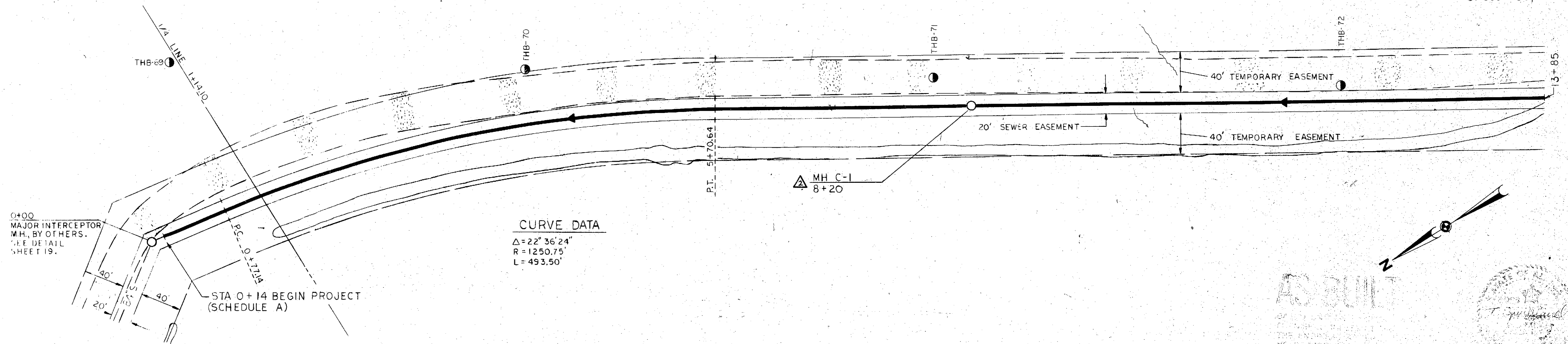
CONTRACT 16

SHEET
INDEX

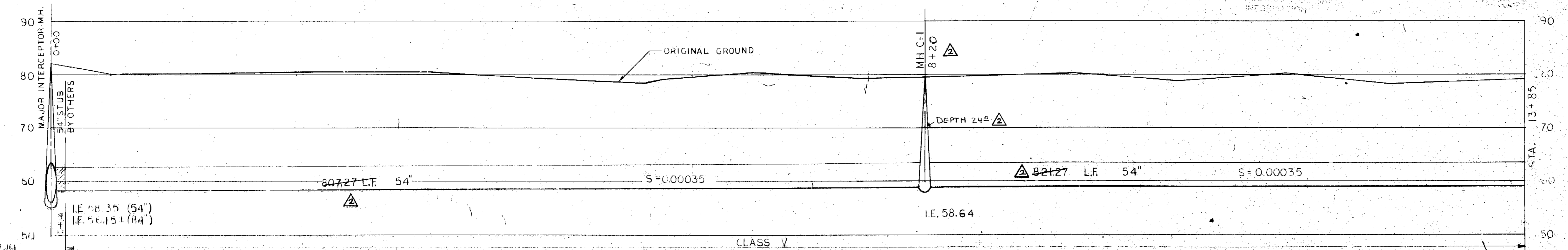
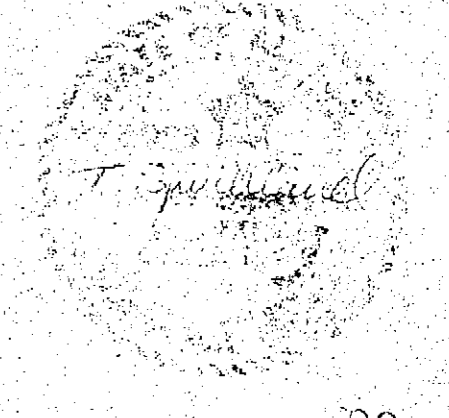
9248



VERTICAL DATUM
MSL (POST EARTHQUAKE)
BY USC & GS, 1966



AS BUILT



HA A 206A-229

DESIGNED BY	APPROVED BY	DATE
DRAWN BY	SCALE	MAY 71
CHECKED BY	FILE	2550

BOROUGH ENGINEERS
A JOINT VENTURE
TRYER, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

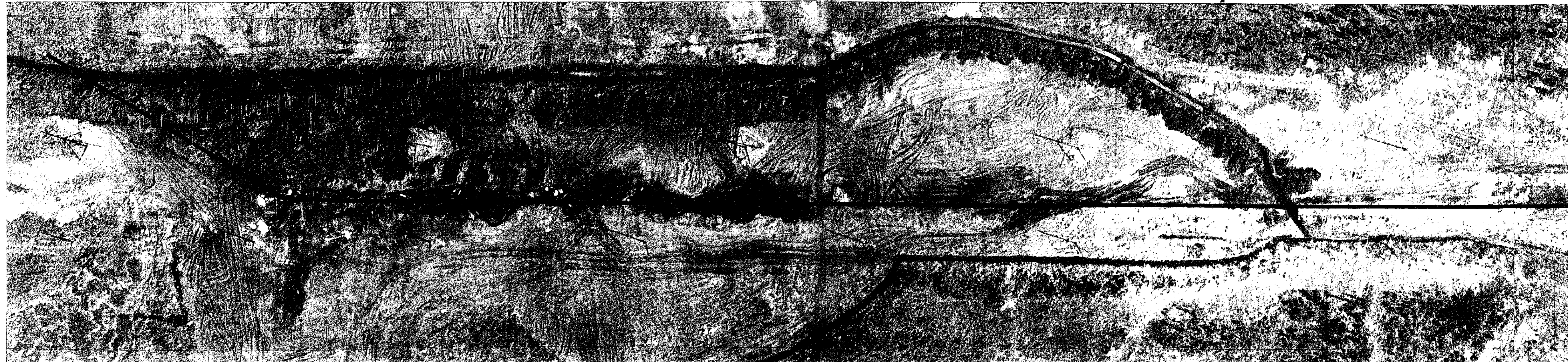
TURNAGAIN INTERCEPTOR
STA 0+14 to STA 13+85
(SCHEDULE "A")

SHEET
C 1
1 OF 19

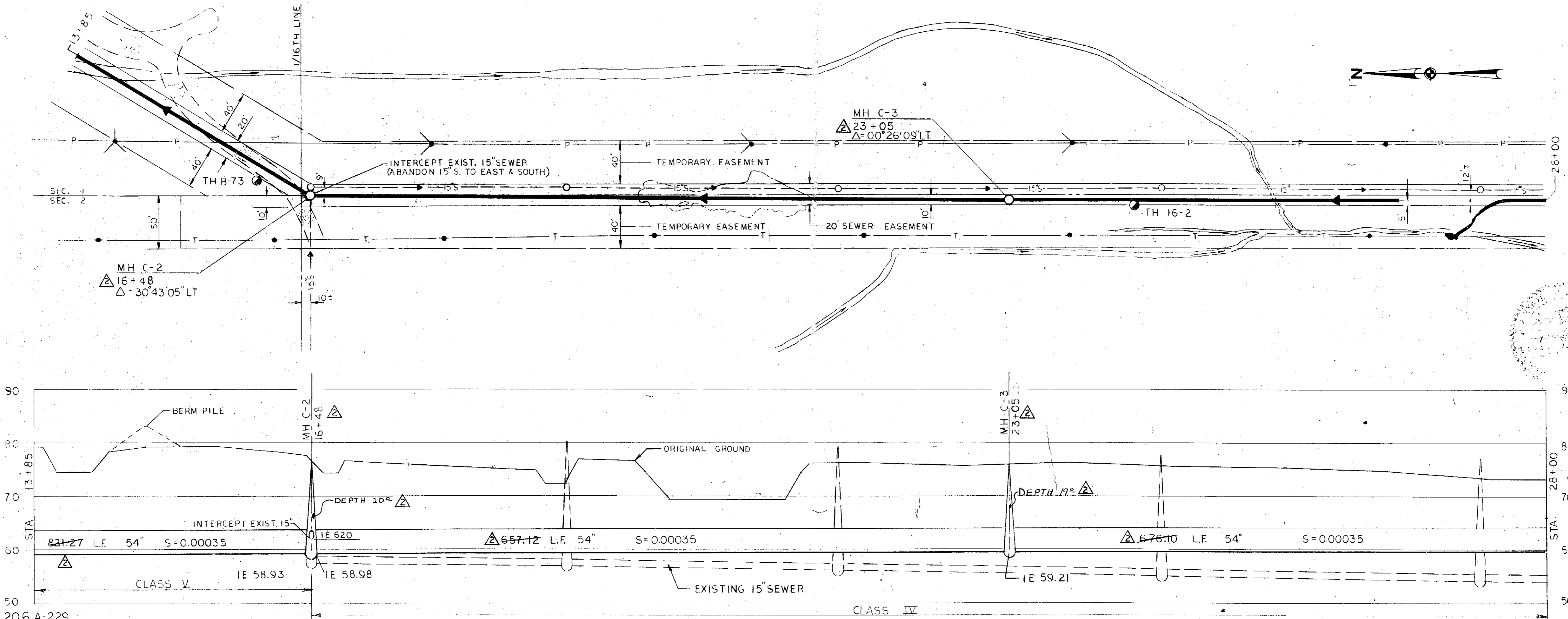
1810 0797

4734

9299



VERTICAL DATUM
MSL (POST EARTHQUAKE)
BY USC & GS, 1966.

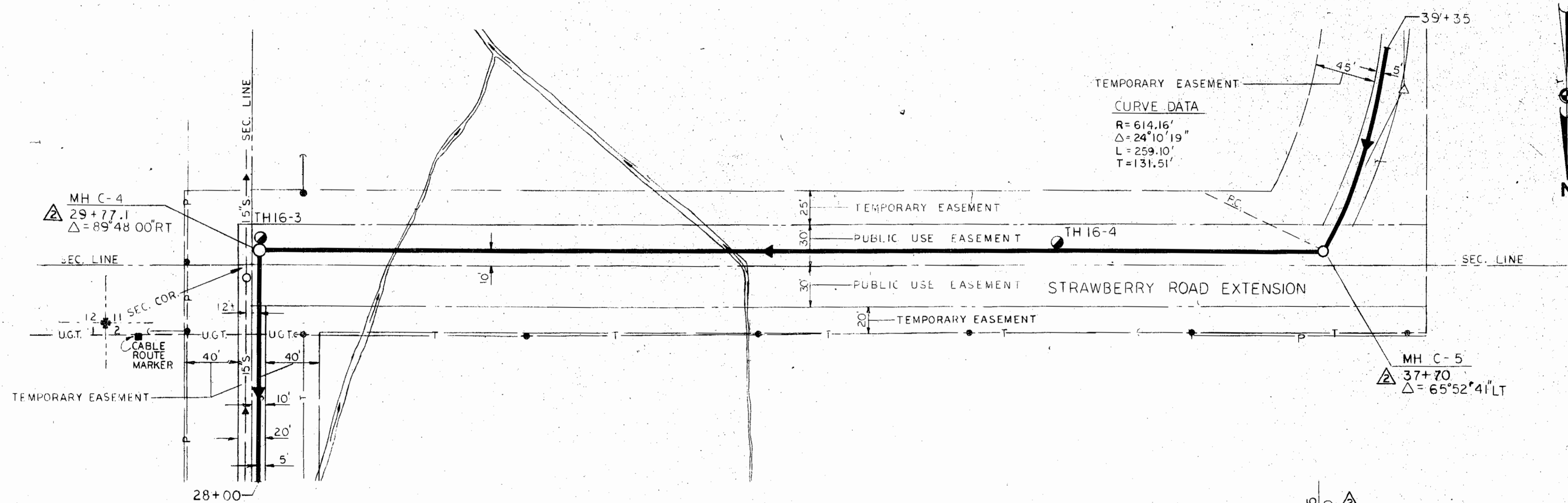


FIB A-206,A-229

6-73 DATE NO. AS-BUILT REVISION BY CHECKED T.S. FILE 2550	DESIGNED T.S. DRAWN R.L.C.	APPROVED: <i>P.H.</i> HOR. 1"=50' SCALE VER. 1"=10' DATE MAY 71	BOROUGH ENGINEERS A JOINT VENTURE TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES		GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT CONTRACT NO. 16	TURNAGAIN INTERCEPTOR STA 13+85 TO STA 28+00 (SCHEDULE "A")	SHEET 2 OF 19
	6 2225						

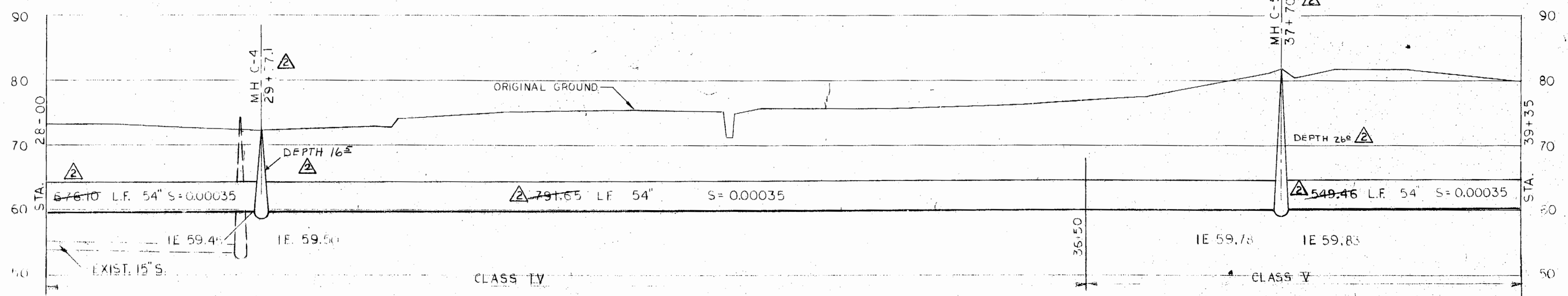
0198

FB 137



VERTICAL DATUM
MSL (POST EARTHQUAKE)
BY USC & GS, 1966.

CONTRACTOR TO CHECK STATUS
OF STRAWBERRY ROAD, MAY BE
UNDER CONTRACT BY FALL 1972.



11. A. 10. A. 2. 3

AS BUILT
REVISIONS
DATE

APPROVED
DATE
BY

BOROUGH ENGINEERS
A JOINT VENTURE
TRYER, RYMAN & HAYES AND STEVENS, THOMPSON, RINYAH & ASSOCIATES



GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

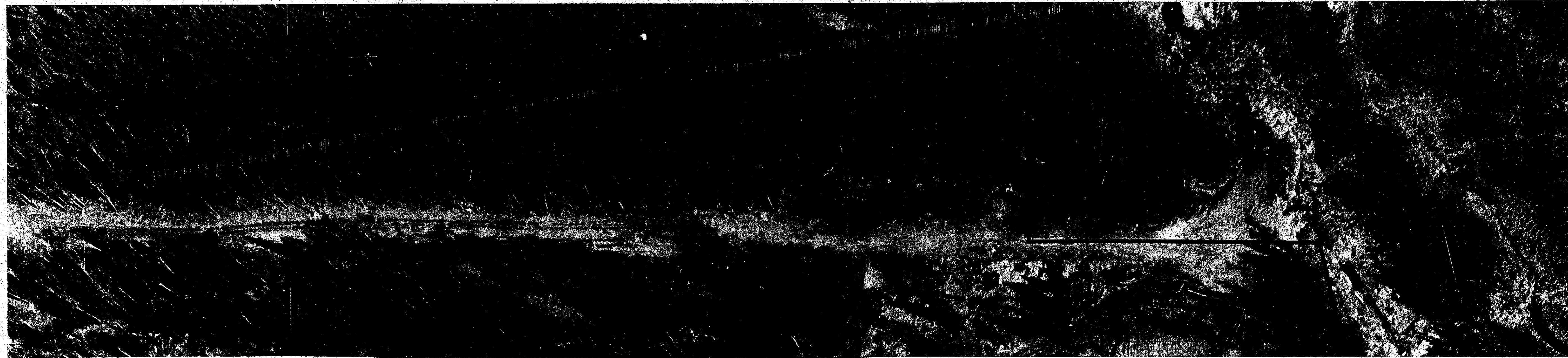
TURNAGAIN INTERCEPTOR
STA 28+00 to STA 39+35
(SCHEDULE A)

SHEET
C 3
3 of 9

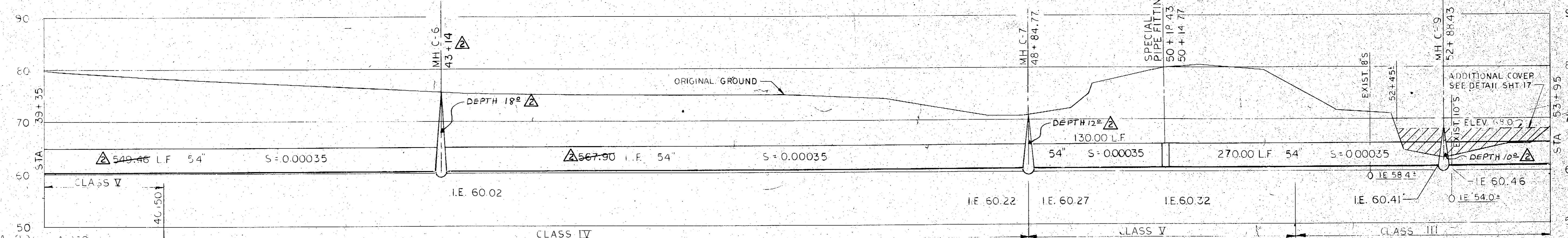
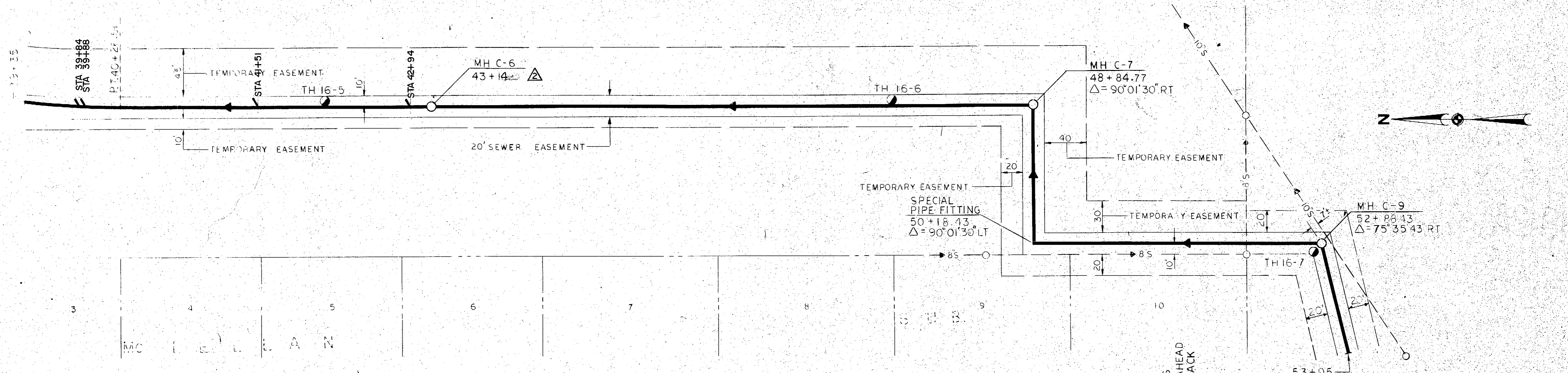
0799

50338

4934



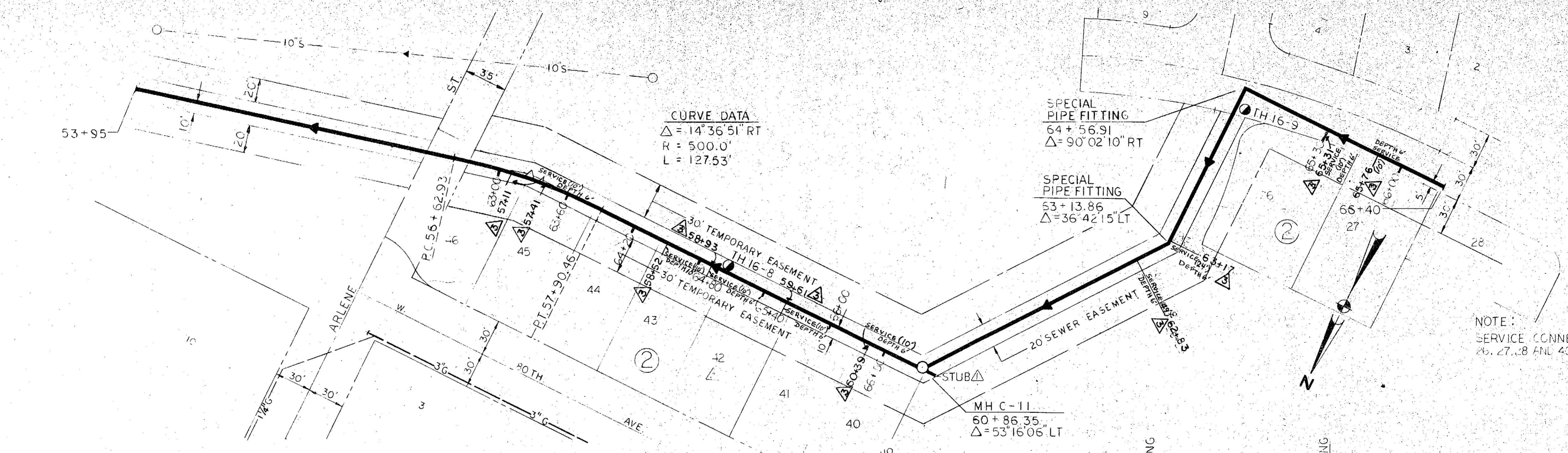
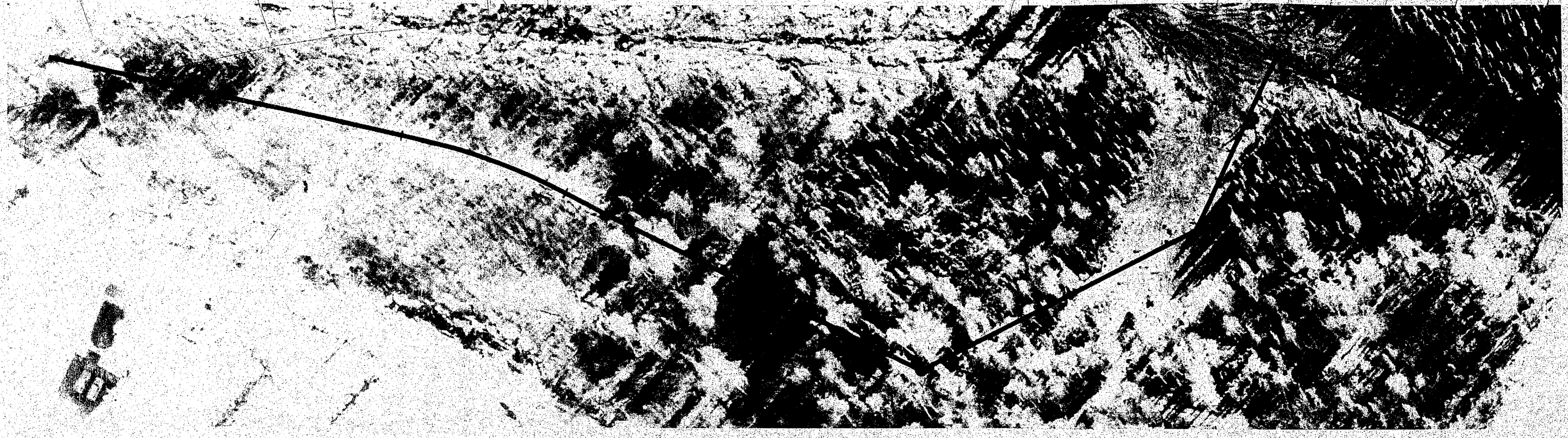
VERTICAL DATUM
 M.S.L. (POST EARTHQUAKE)
 BY USC & G.S., 1966.



7/18/74 6-73 7/25/72 DATE NO.		RECORDED DEEP SERVICE RISERS AS-BUILT 1 REVISION REVISION		JGT DESIGNED T.S. DRAWN R.L.C. CHECKED T.S.		APPROVED HOR. 1"=50' SCALE VER. 1"=10' DATE MAY. 71 FILE 2550		BOROUGH ENGINEERS A JOINT VENTURE TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES		GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT		TURNAGAIN INTERCEPTOR STA 39+35 to STA 53+95 (SCHEDULE A)		SHEET 4 of 13
--	--	---	--	--	--	---	--	--	--	--	--	--	--	------------------

0800

5033B



CURVE DATA
 $\Delta = 14^{\circ}36'51''$ RT
 $R = 500.0'$
 $L = 127.53'$

VERTICAL DATUM
 MSL (POST EARTHQUAKE)
 BY USC & GS, 1966

NOTE:
 SERVICE CONNECTS Δ TO SERVE LOTS
 26, 27, 28 AND 40-46, AS INDICATED

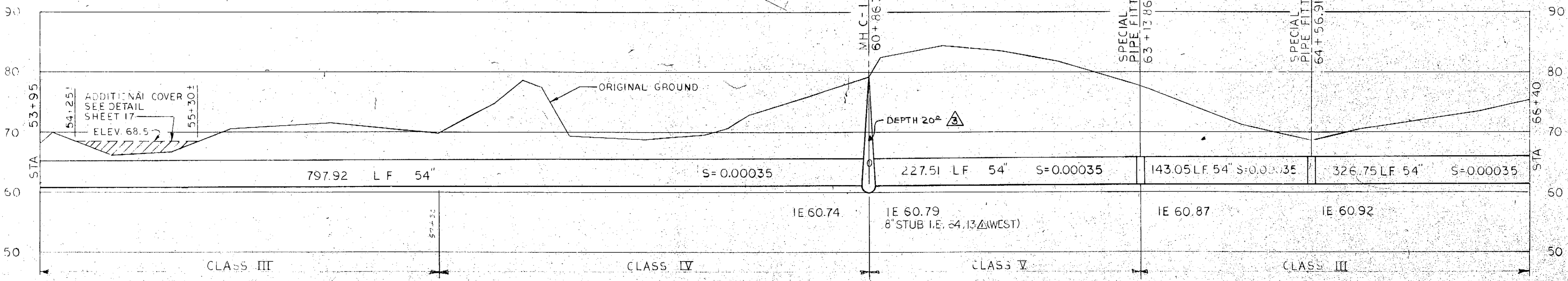


FIG. A 206, A-229

6-73 5/4/72 1/16/71	AS-BUILT ADD STUBS AND LOT LINES DWC 1/16/71	DESIGNED T.S.	BOROUGH ENGINEERS A JOINT VENTURE TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES		GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT	TURNAGAIN INTERCEPTOR STA 53+95 TO STA 66+40 (SCHEDULE 'A')	SHEET
		DRAWN R.L.C.					SCALE HOR 1"=50'
		CHECKED T.S.	FILE # 2550				5 of 19

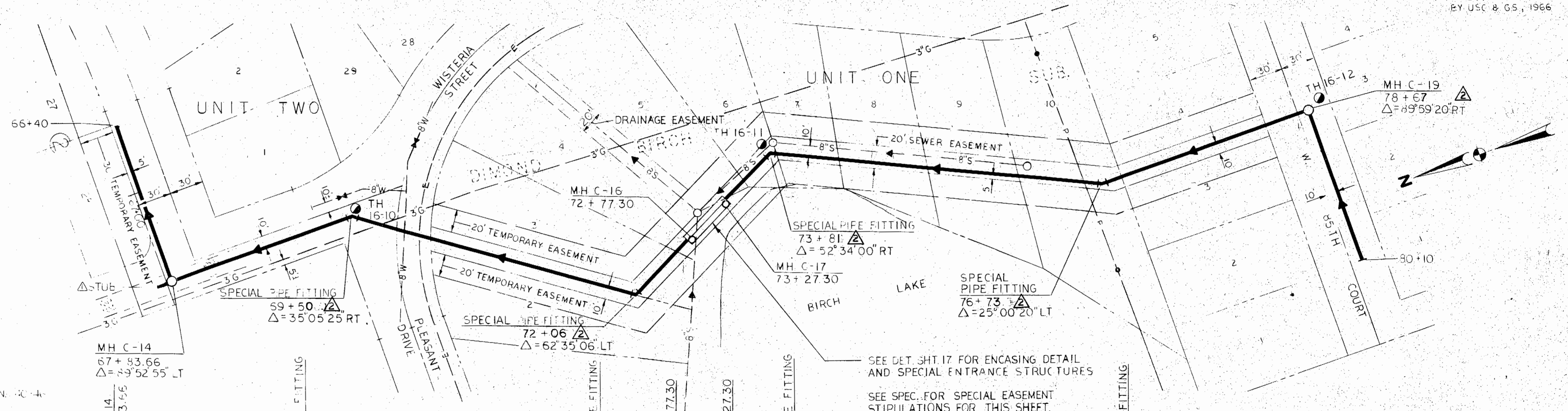
CONTRACT NO. 16

1080

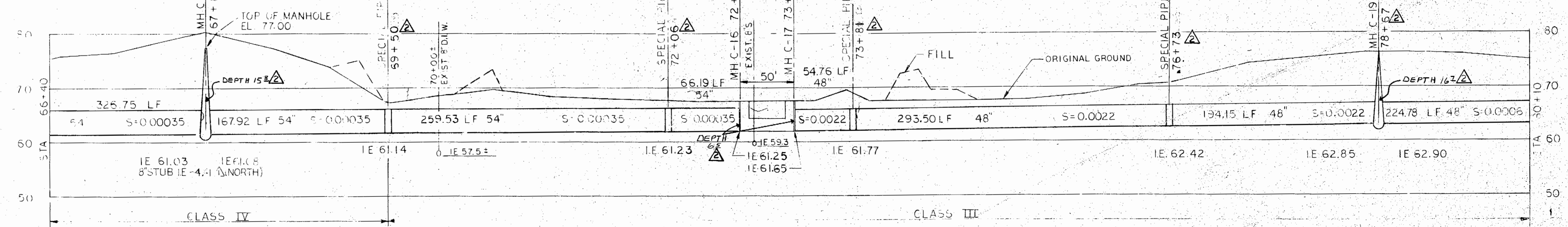
5033CD



VERTICAL DATUM
MSL (POST EARTHQUAKE)
BY USC & GS, 1966



NOTE:
A TO SERVE LOTS 27, 27.2, 28 AND 40-46
AS INDICATED



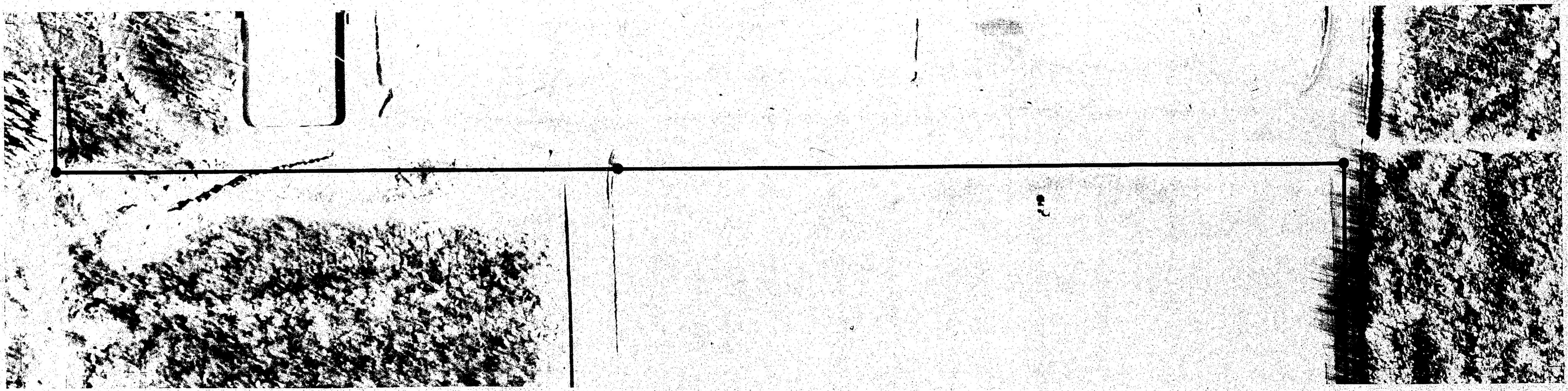
FB A-206, A-229

G-73 5/4/72 DATE NO.	AS-BUILT ADD STUB	DESIGNED	I.S.	APPROVED	<i>[Signature]</i>	HORIZ. 1"=50' SCALE VER. 1"=10' DATE MAY 71	BOROUGH ENGINEERS A JOINT VENTURE TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES		GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT	TURNAGAIN INTERCEPTOR STA 66+40 to STA 80+10 (SCHEDULE "A")	SHEET
		DRAWN	R.L.C.	FILE	2550						6 of 19

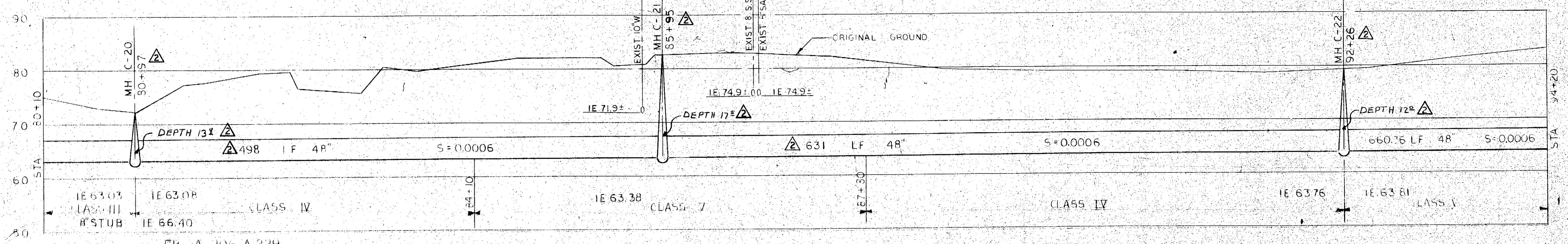
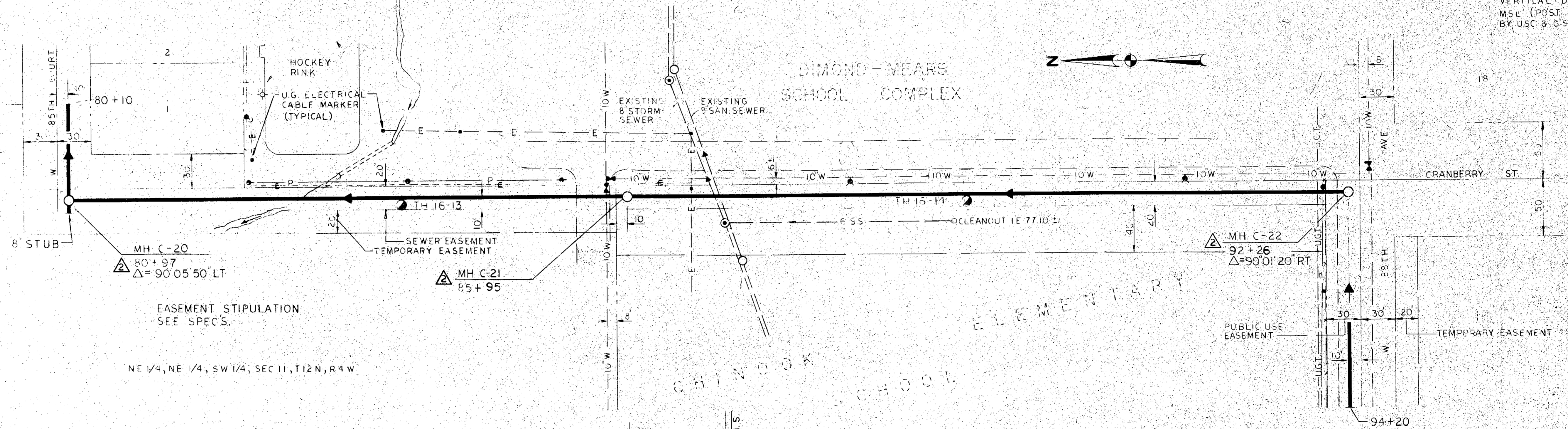
CONTRACT NO. 16

2030

50330



VERTICAL DATUM
MSL (POST EARTHQUAKE)
BY USC & GS, 1966



FR A-206 A-229

DESIGNED: L.S.
CHECKED: T.S.
DATE: MAY 71
SCALE: VERT. 1"=10'
FILE: 2550

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN, & ASSOCIATES



GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

TURNAGAIN INTERCEPTOR
STA 80+10 to STA 94+20
SCHEDULE A

SHEET
7 OF 10

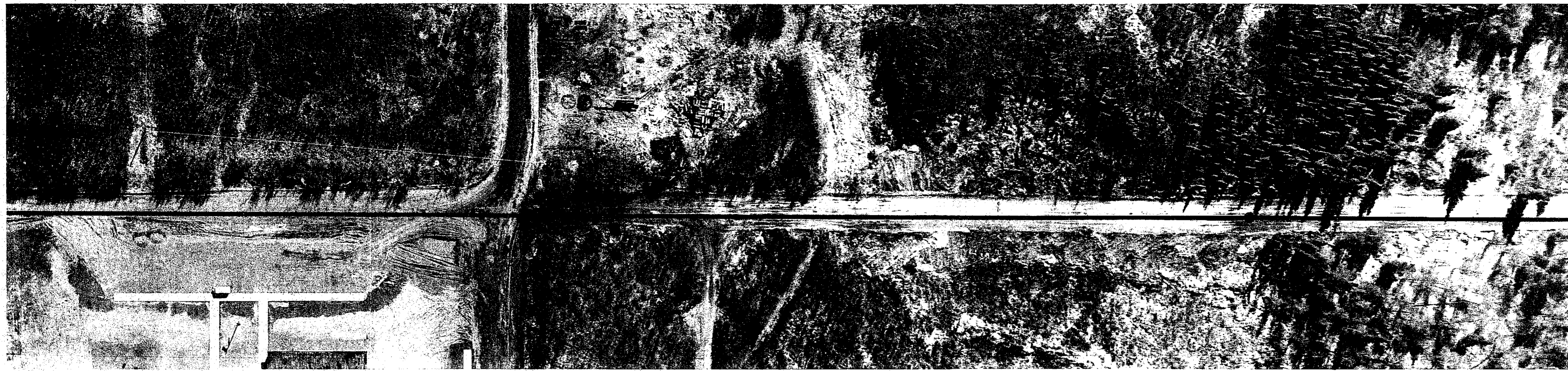
0803

5133

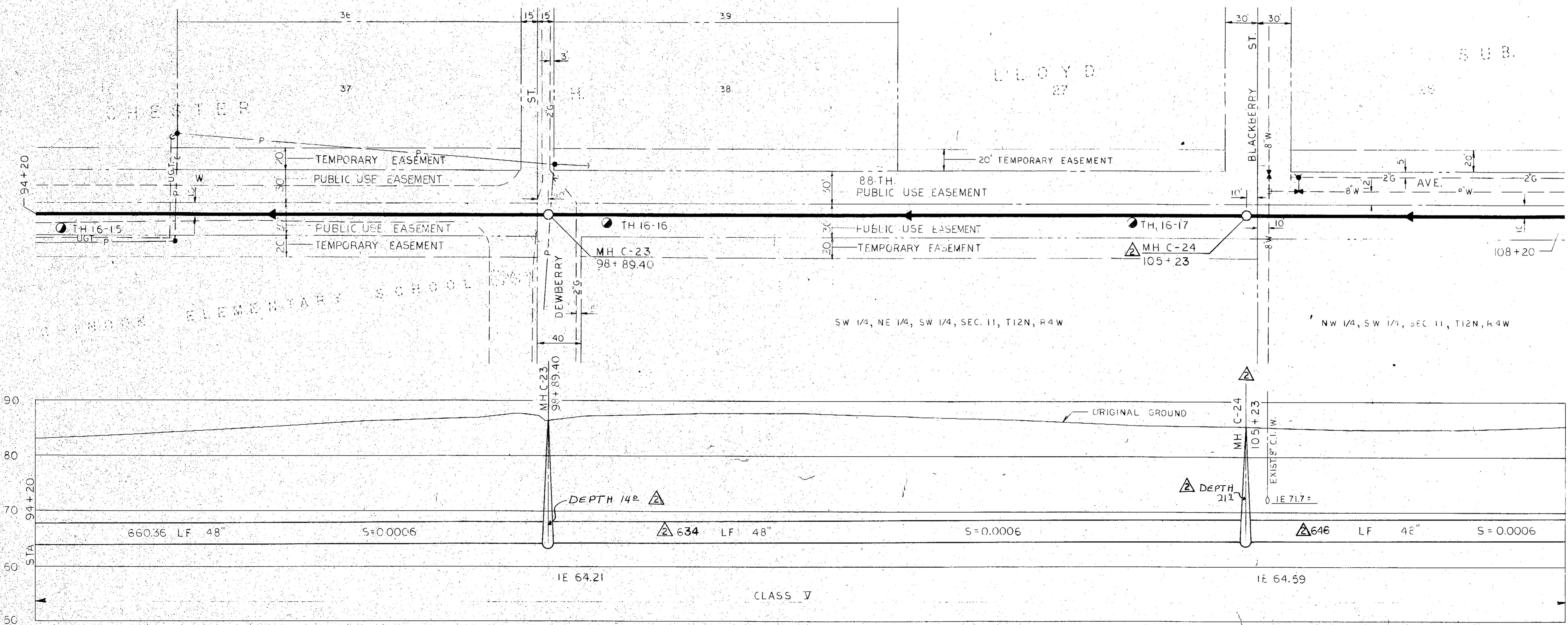
5033CD

CONTRACT NO. 15

9301



VERTICAL DATUM
MSL (POST EARTHQUAKE)
BY USC & GS, 1966



F13-A-206

DESIGNED T.S.	APPROVED: [Signature]	DATE MAY 71
DRAWN R.L.C.	SCALE: HOR. 1"=80'	
CHECKED T.S.	SCALE: VER. 1"=10'	FILE 2550

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

TURNAGAIN INTERCEPTOR
STA 94+20 to STA 108+20
(SCHEDULE "A")

SHEET	C	3
	3	OF 15

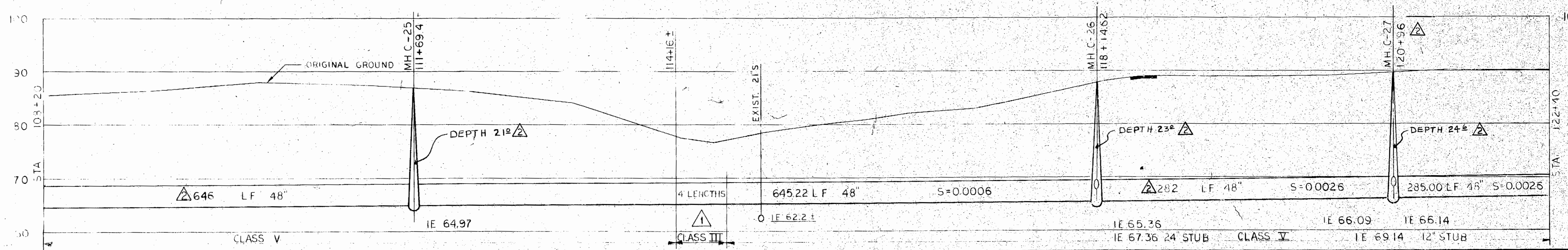
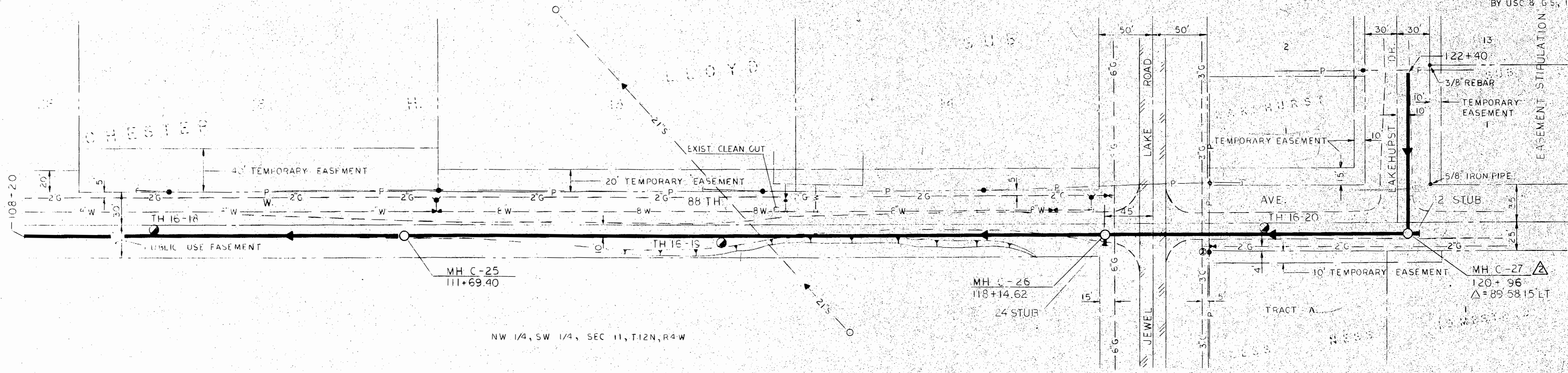
CONTRACT NO. 16

14030

5132



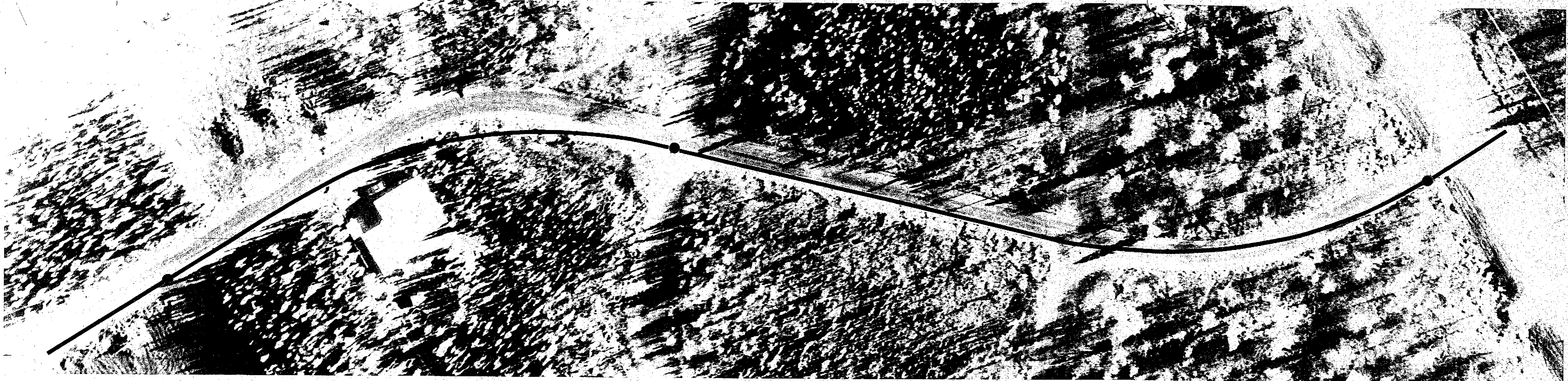
VERTICAL DATUM
MSL (POST EARTHQUAKE)
BY USC & G.S. 1966



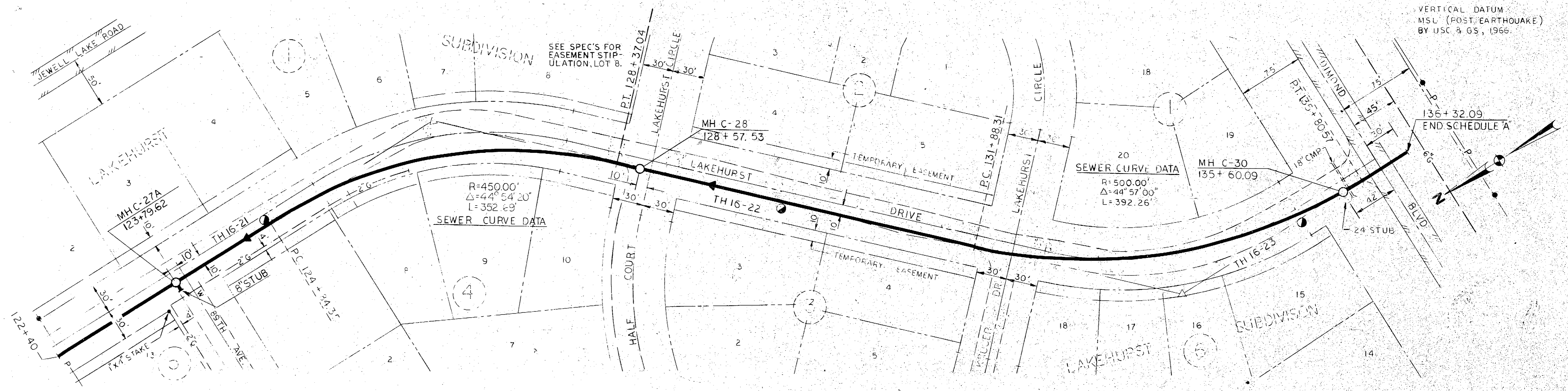
DESIGNED: T.S. DRAWN: H.L.D. CHECKED: T.S.	APPROVED: [Signature] SCALE: VERT. 1"=50' DATE: MAY 71	BOROUGH ENGINEERS A JOINT VENTURE TRYK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES	GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT	TURNAGAIN INTERCEPTOR STA 108+20 TO STA 122+40 (SCHEDULE A)	SHEET 9 OF 19
--	--	---	--	--	------------------

0805
 51318
 5132

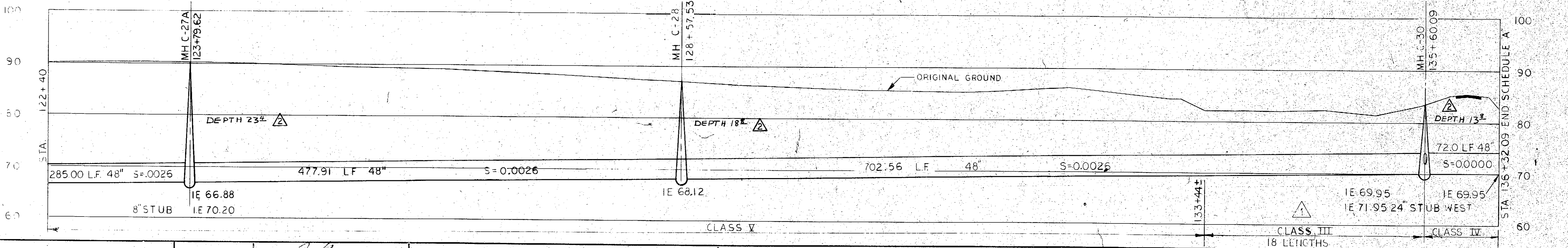
9301



0806



VERTICAL DATUM
MSL (POST EARTHQUAKE)
BY USC & GS, 1966



FB - A-206

6-75 AS-BUILT
OCT. 7, 71 CHANGED PIPE CLASS
DATE NO. REVISION

DESIGNED T.S.
DRAWN P.L.C.
CHECKED T.S.
APPROVED HOR 1:50
SCALE VER 1"=10'
FILE 2550
DATE MAY 71

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



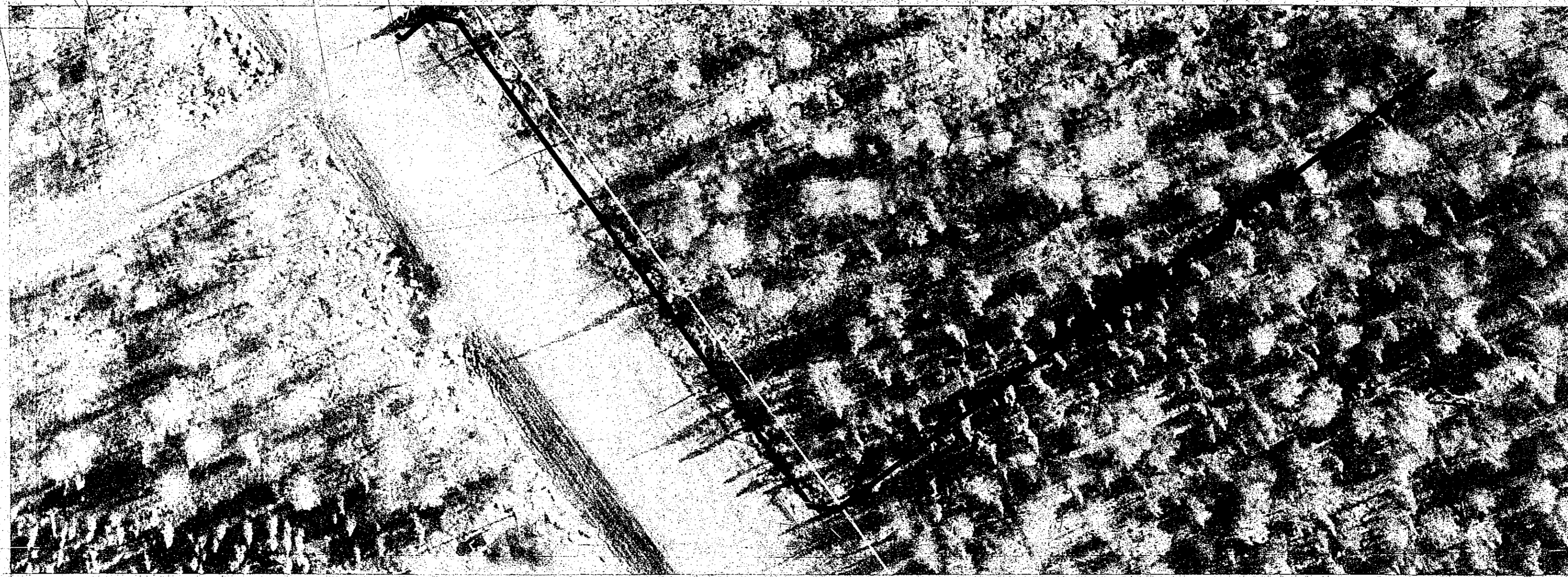
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

TURNAGAIN INTERCEPTOR
STA 122+40 to STA 136+32.09
(SCHEDULE 'A')

SHEET
C 10
10 of 19

5131B

9302



VERTICAL DATUM:
M.S.L. (POST EARTHQUAKE)
BY U.S.C. & G.S., 1966.

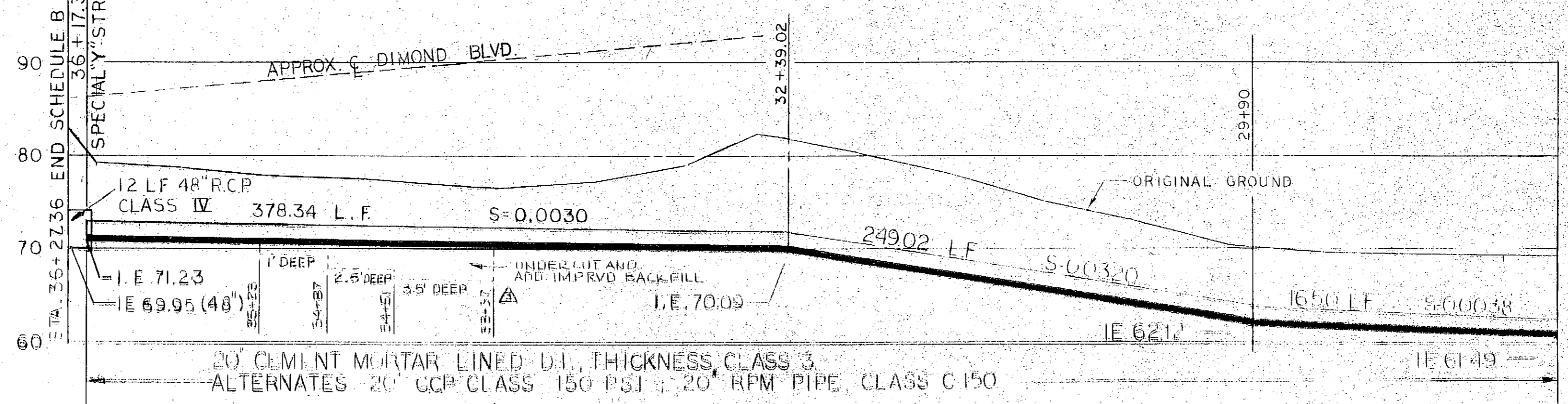
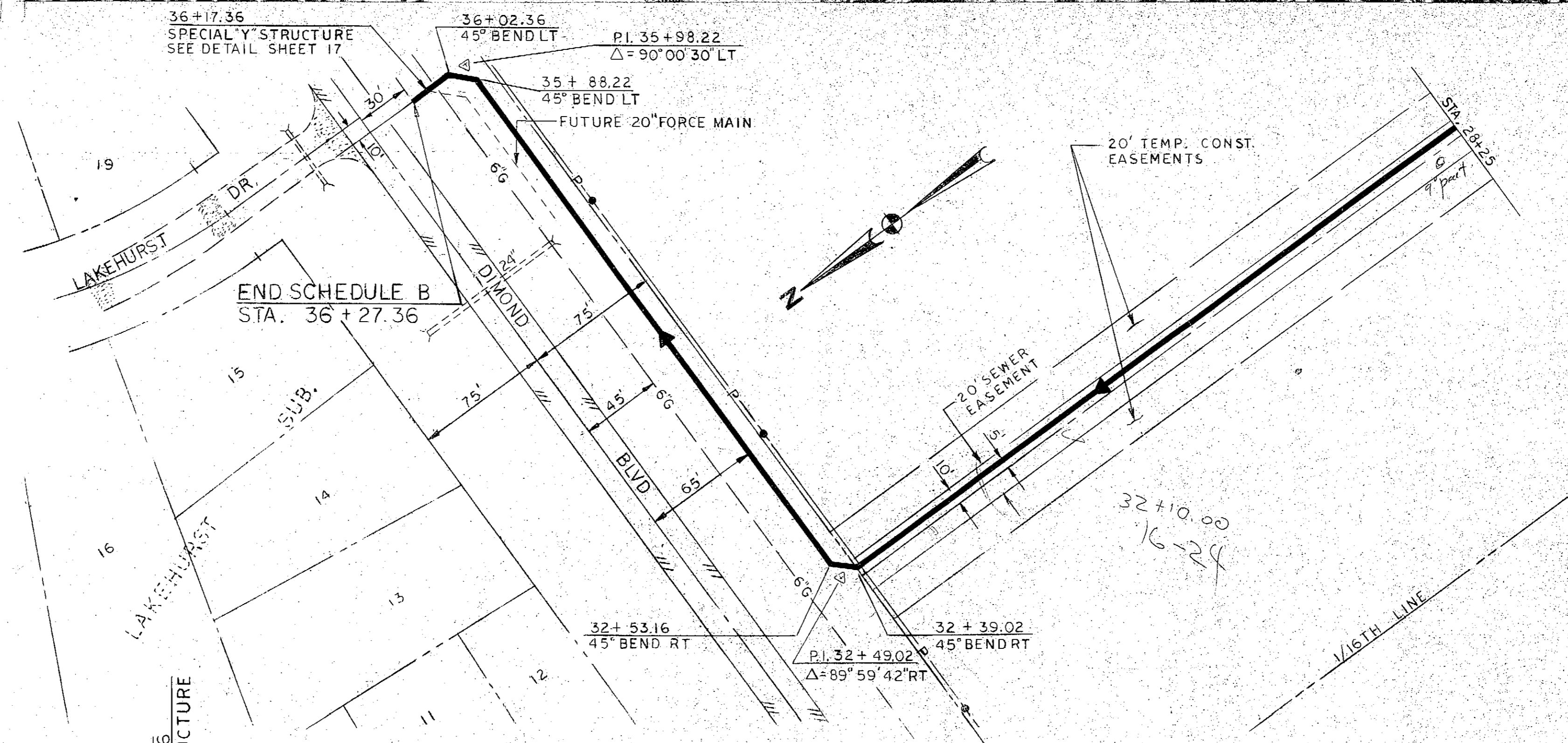


FIG. A 200-RA 229

DATE	NO.	REVISION	BY	CHECKED	T.S.	FILE	2550
7/28/72	1	RELUCATE INTERCEPTAL	JIF				

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT
CONTRACT NO. 16

TURNAGAIN INTERCEPTOR
SCHEDULE B 20\"/>

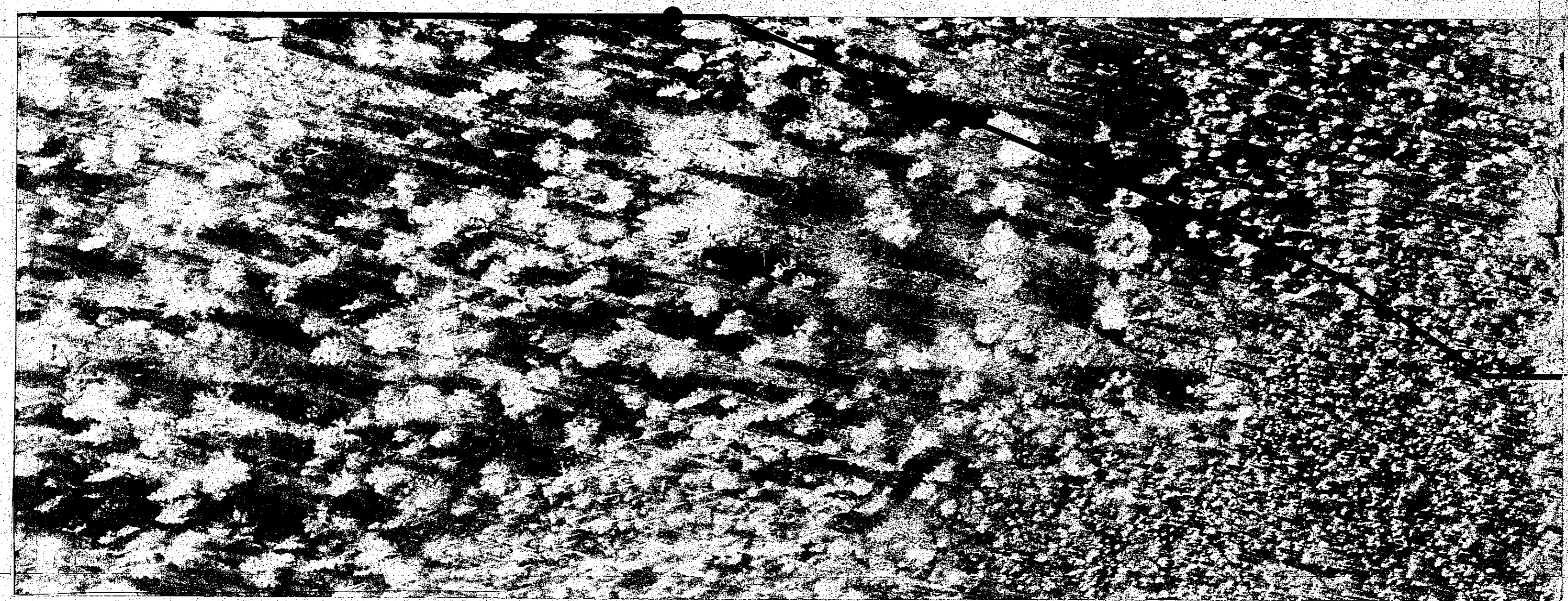
SHEET
C.T.L.
11 of 19

0807

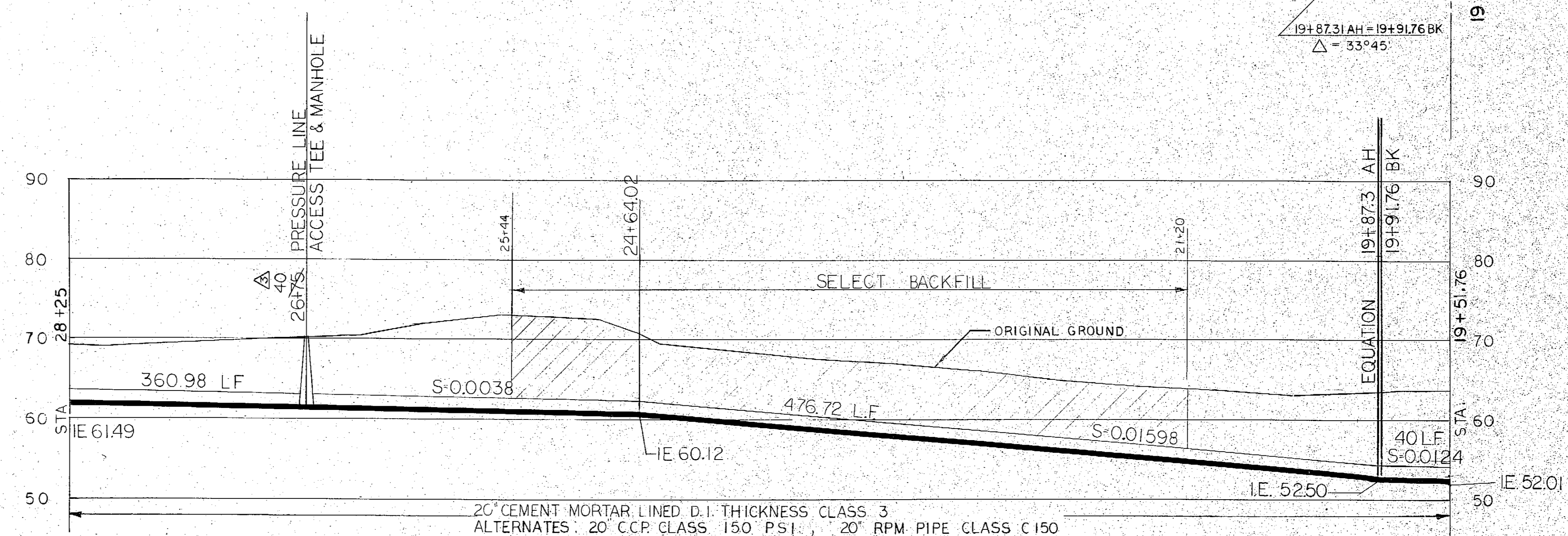
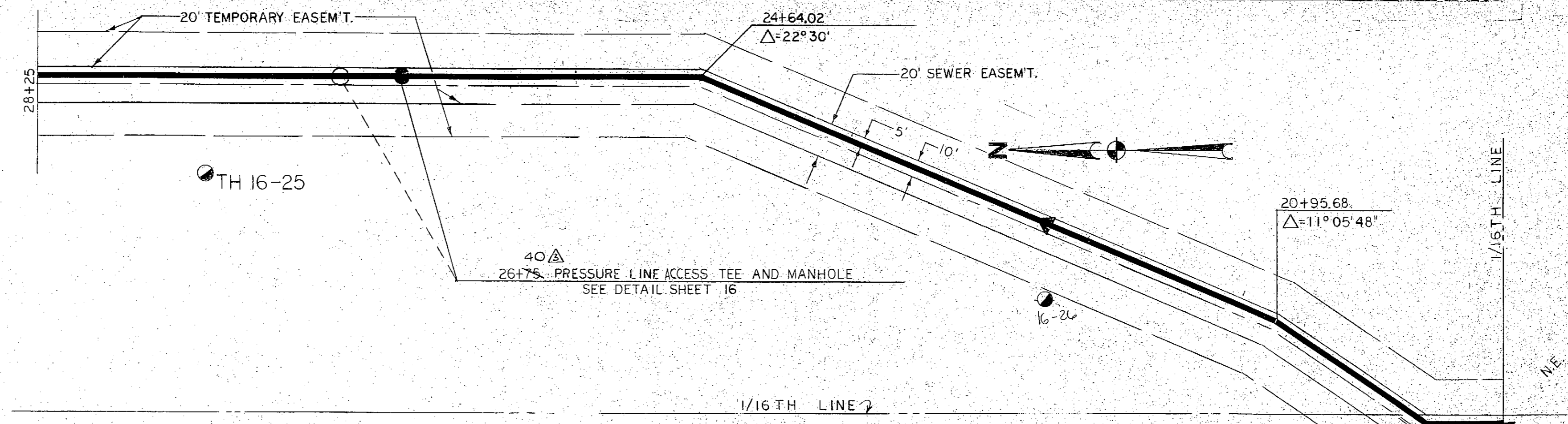
5031ED



AS-BUILT



VERTICAL DATUM:
MSL (POST EARTHQUAKE)
BY USC & GS, 1966



FB A-206, A-229

AS-BUILT

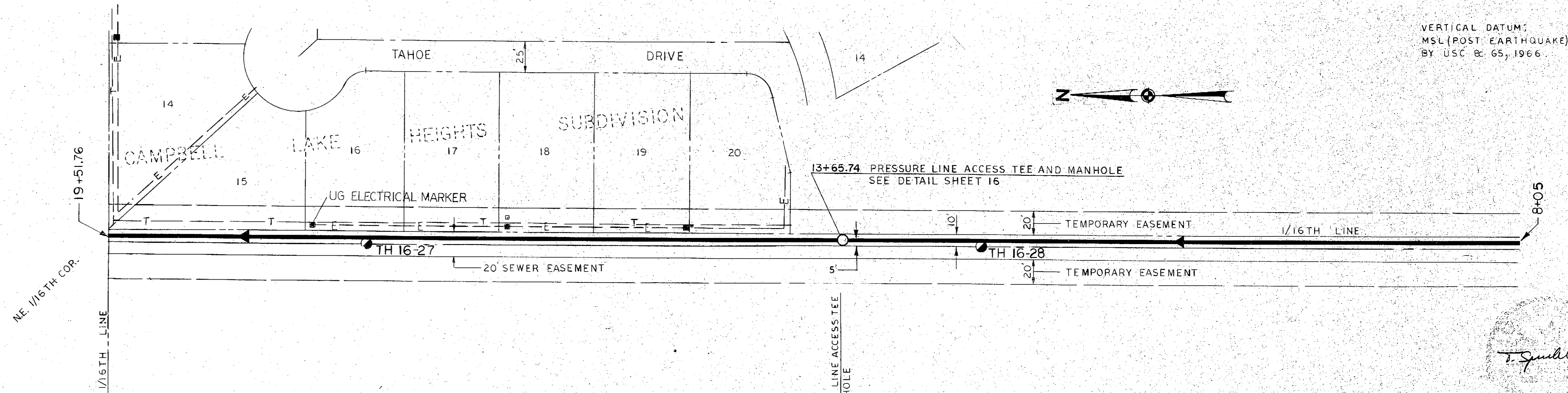
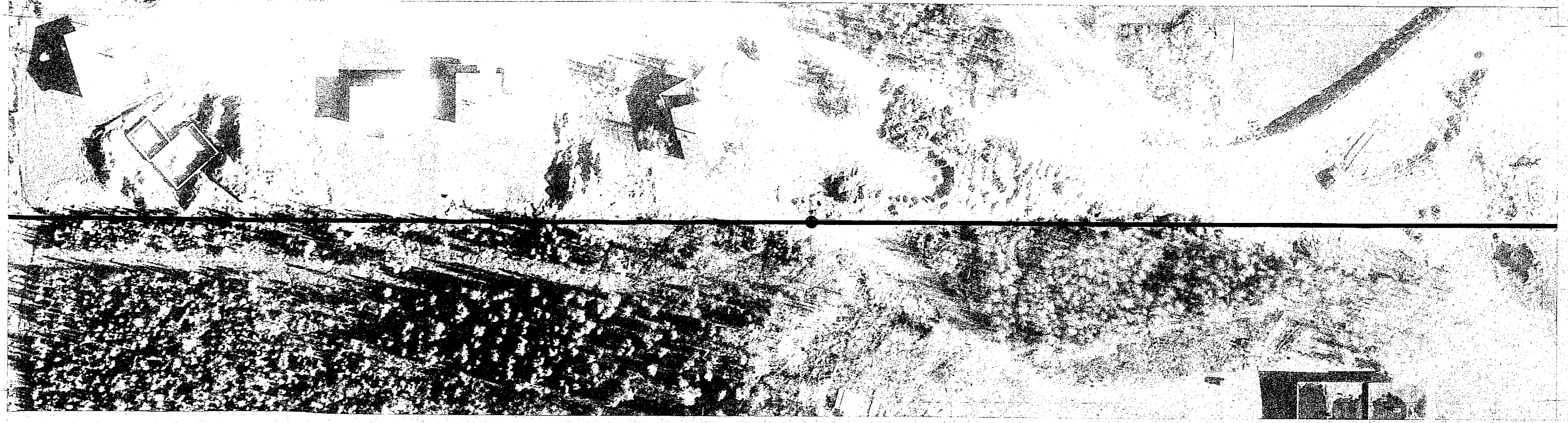


DESIGNED T. S.	APPROVED <i>T.S.</i>	BOROUGH ENGINEERS		GREATER ANCHORAGE AREA BOROUGH		TURNAGAIN INTERCEPTOR SCHEDULE B - 20" FORCE MAIN STA. 19+55 TO STA. 28+25	SHEET C 12 12 OF 19
DRAWN R. C.	SCALE: HORIZ: 1" = 50' VERT: 1" = 10'	A JOINT VENTURE TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES		SEWERAGE PROJECT			
DATE NO.	REVISION	CHECKED T. S.	FILE 2550				

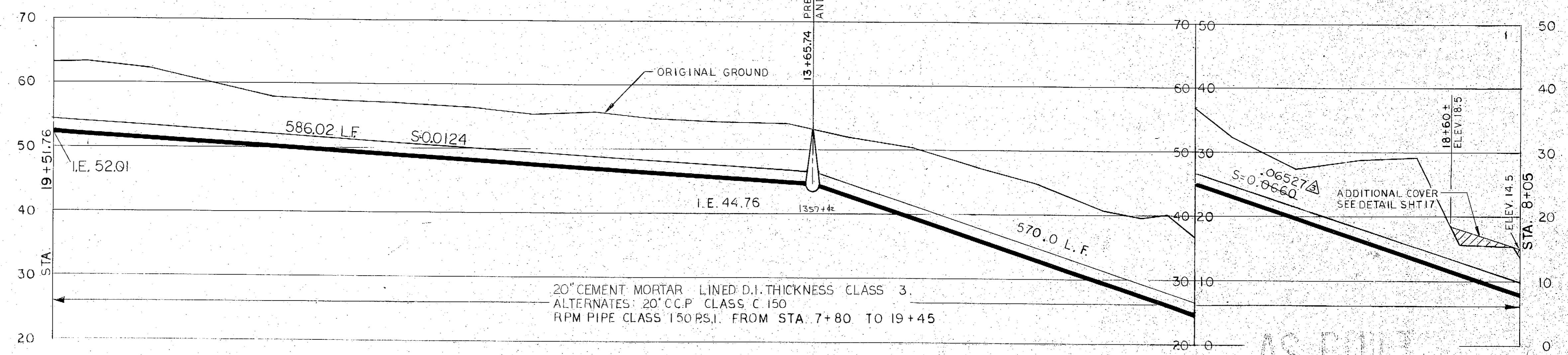
0808

523180

6-2425



VERTICAL DATUM:
MSL (POST EARTHQUAKE)
BY USC & GS, 1966.



20" CEMENT MORTAR LINED D.I. THICKNESS CLASS 3.
ALTERNATES: 20" C.C.P. CLASS C 150
RPM PIPE CLASS 150 P.S.I. FROM STA. 7+80 TO 19+45

FB A-206, A-229

DATE	BY	DESCRIPTION
2/13/13	AW	REVISED
7/20/12	AW	PROPOSED INTERCEPTOR

PROJECT	DATE	SCALE	DATE
TURNAGAIN INTERCEPTOR	MAY 71	1"=10'	MAY 71

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

TURNAGAIN INTERCEPTOR
SCHEDULE B 20" FORCE MAIN
STA. 8+05 TO STA. 19+55

SHEET	13 OF 19
-------	----------

533180 0809

AS-BUILT

CONTRACT NO. 1

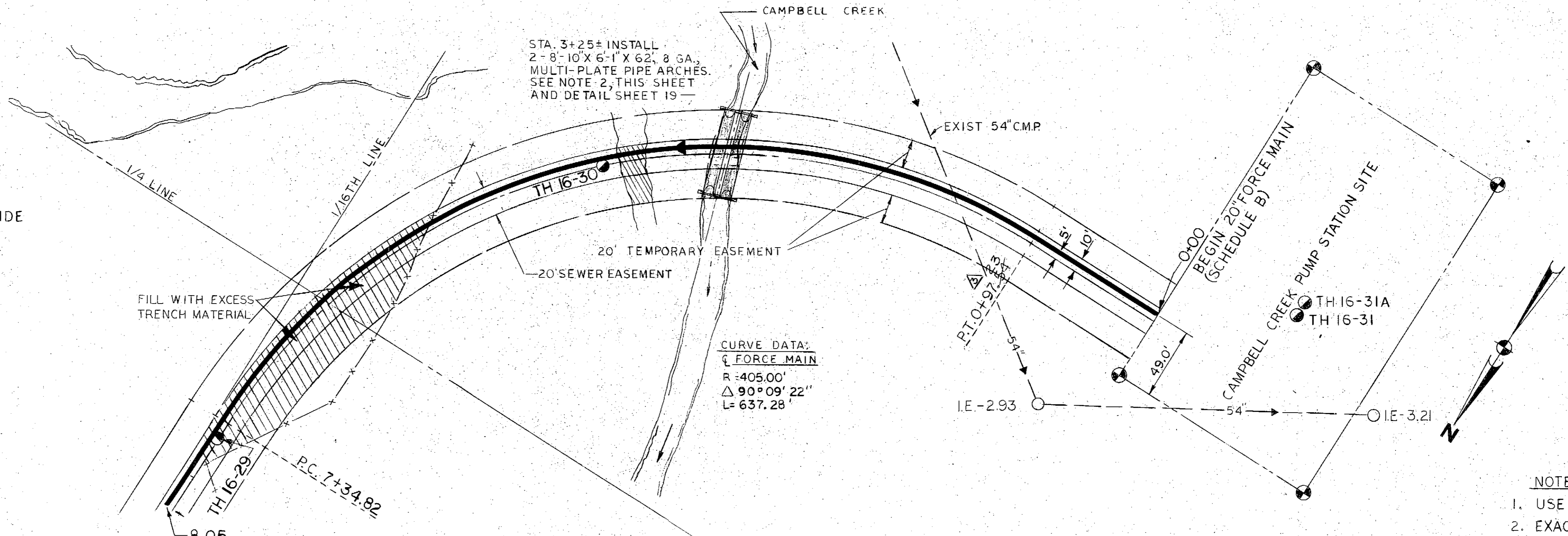
G-2425

0180

VERTICAL DATUM:
MSL (POST EARTHQUAKE)
BY USC & GS, 1966.

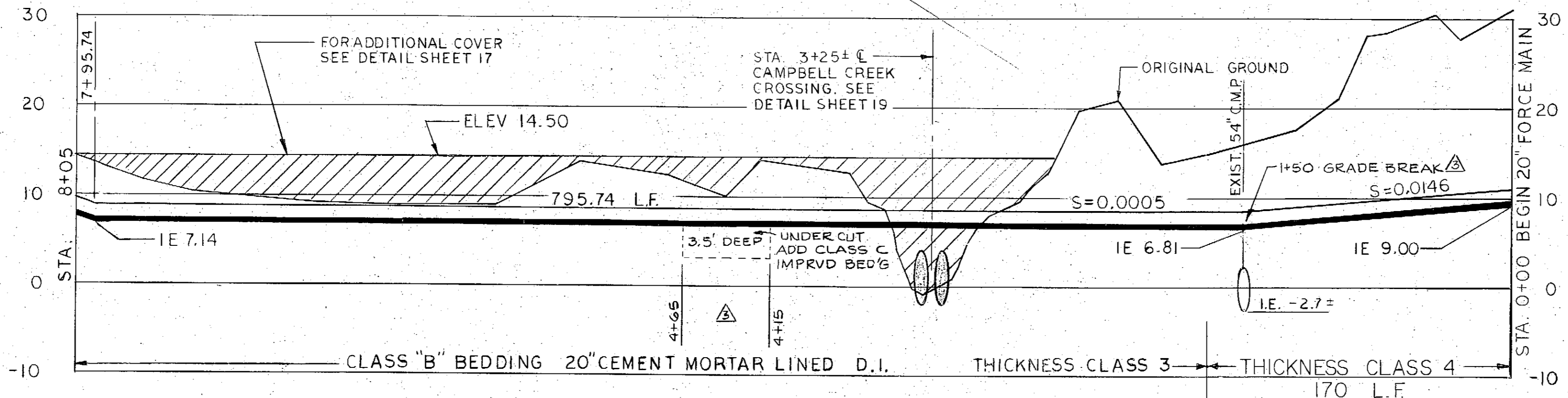


EASEMENT STIPULATION:
RESTORE SALT GRASS WHERE TIDE
FLATS HAVE BEEN DISTURBED.



CURVE DATA:
☒ FORCE MAIN
R = 405.00'
Δ = 90° 09' 22"
L = 637.28'

- NOTES:
1. USE 12 FOOT JOINTS AROUND CURVE.
 2. EXACT LOCATION OF PIPE ARCHES TO BE FIELD LOCATED TO MATCH CREEK CHANNEL.



AS-BUILT



0180

FB A-206

01/13/73	AS BUILT	DESIGNED T. S.	APPROVED T. S.
3-30-73	ADDED CLASS THICKNESS 01.00 to 1.70	DRAWN R. C.	HOR. 1"=50'
3-19-73	REVISED INV. EL. @ H50 FR. 6.74 TO 9.00	CHECKED T. S.	SCALE VER. 1"=10'
DATE	NO.	BY	FILE 2550

DATE	NO.	BY	FILE
		T. S.	2550

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



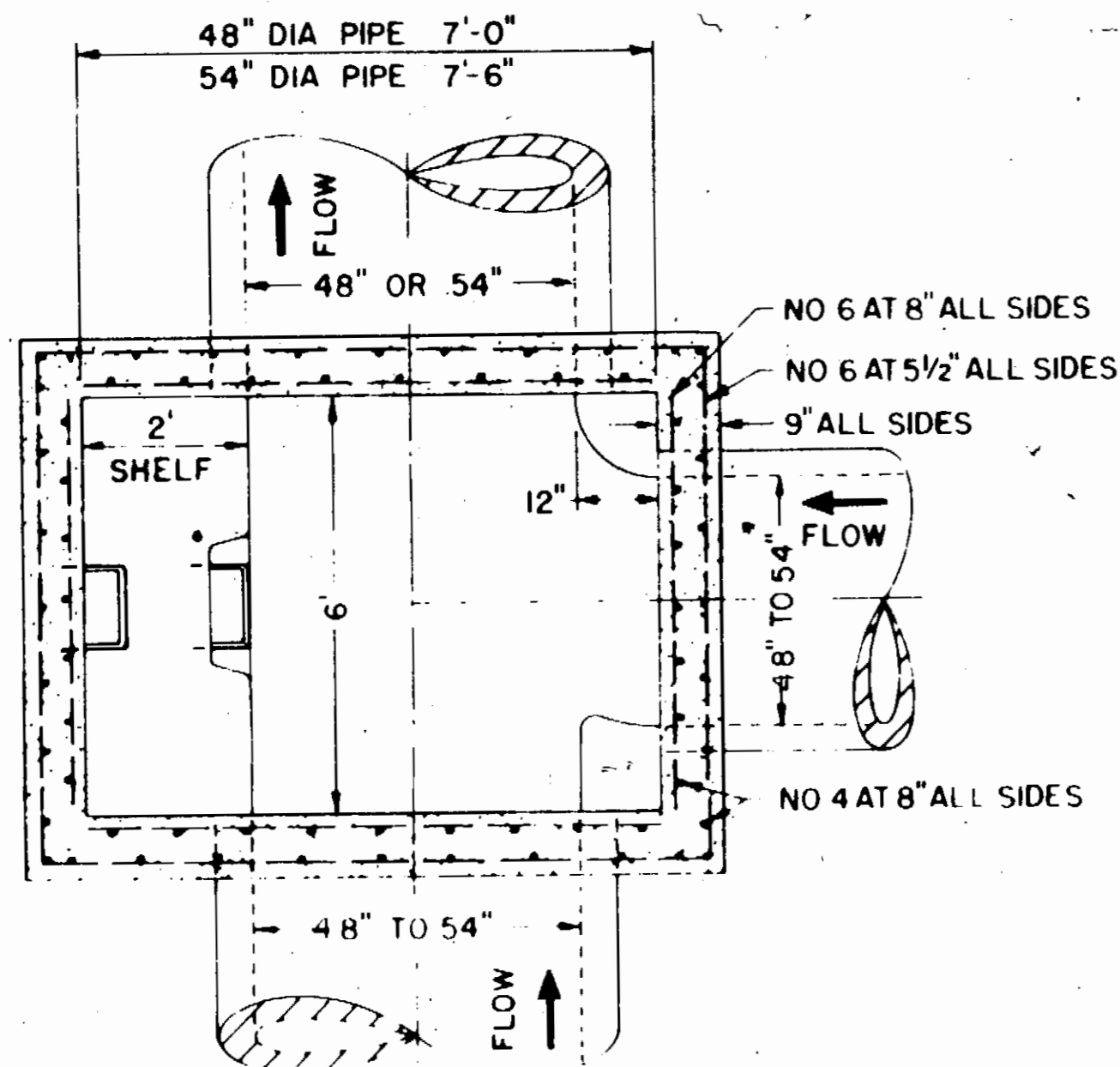
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

TURNAGAIN INTERCEPTOR
SCHEDULE B 20" FORCE MAIN
STA. 0+00 TO STA. 8+05

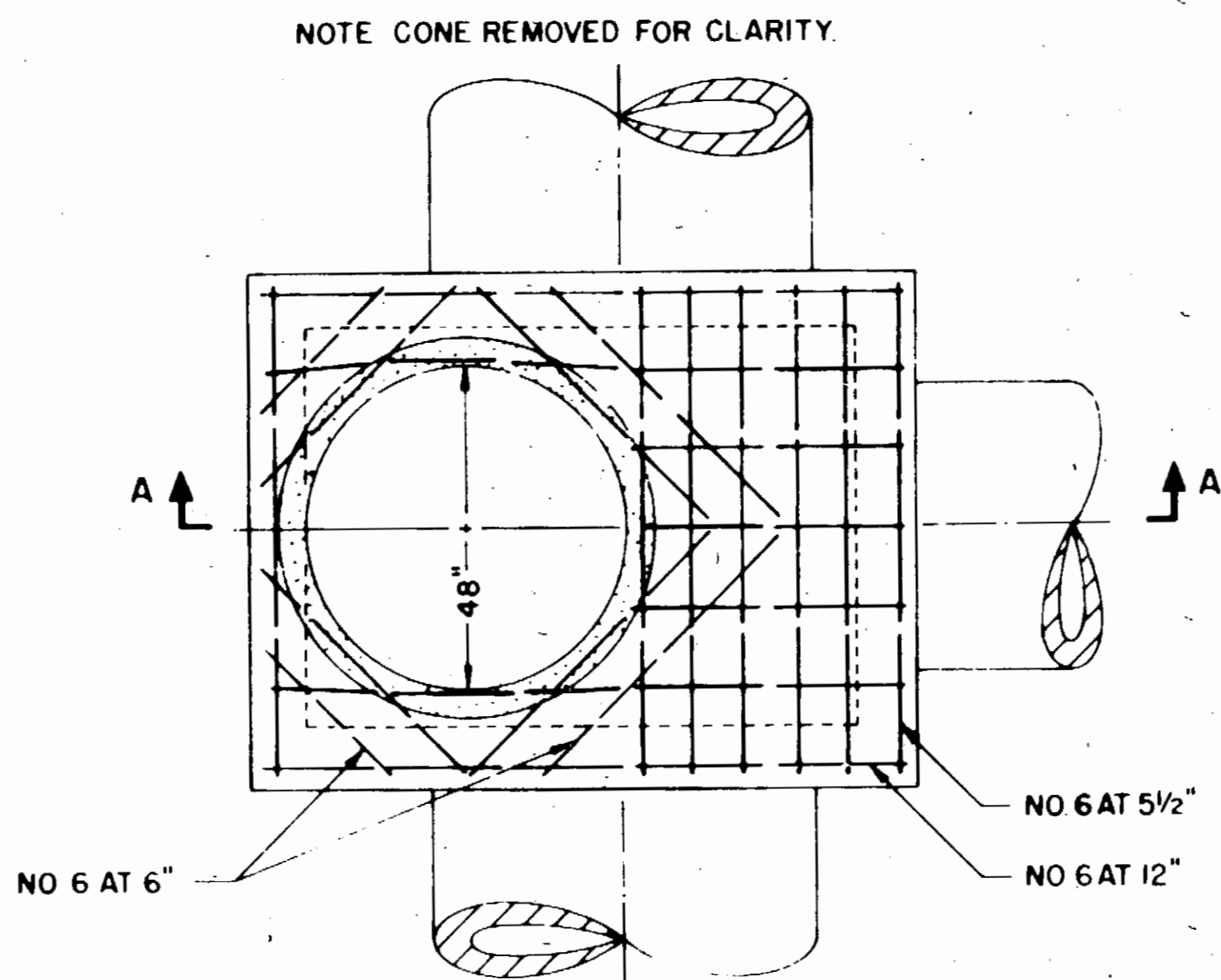
SHEET
C 14
14 of 19

CONTRACT No. 16

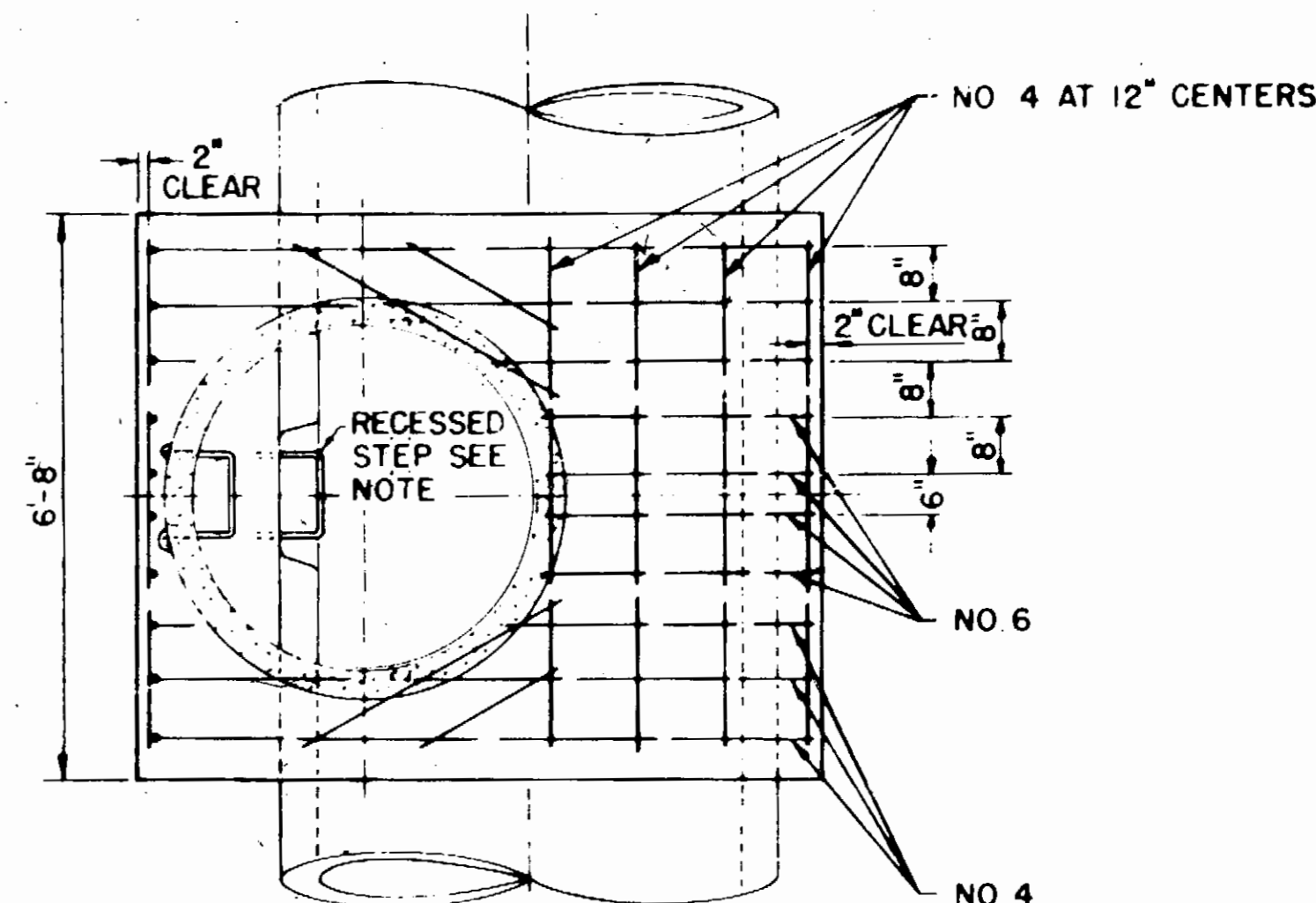
1180
0811



SECTION B-B

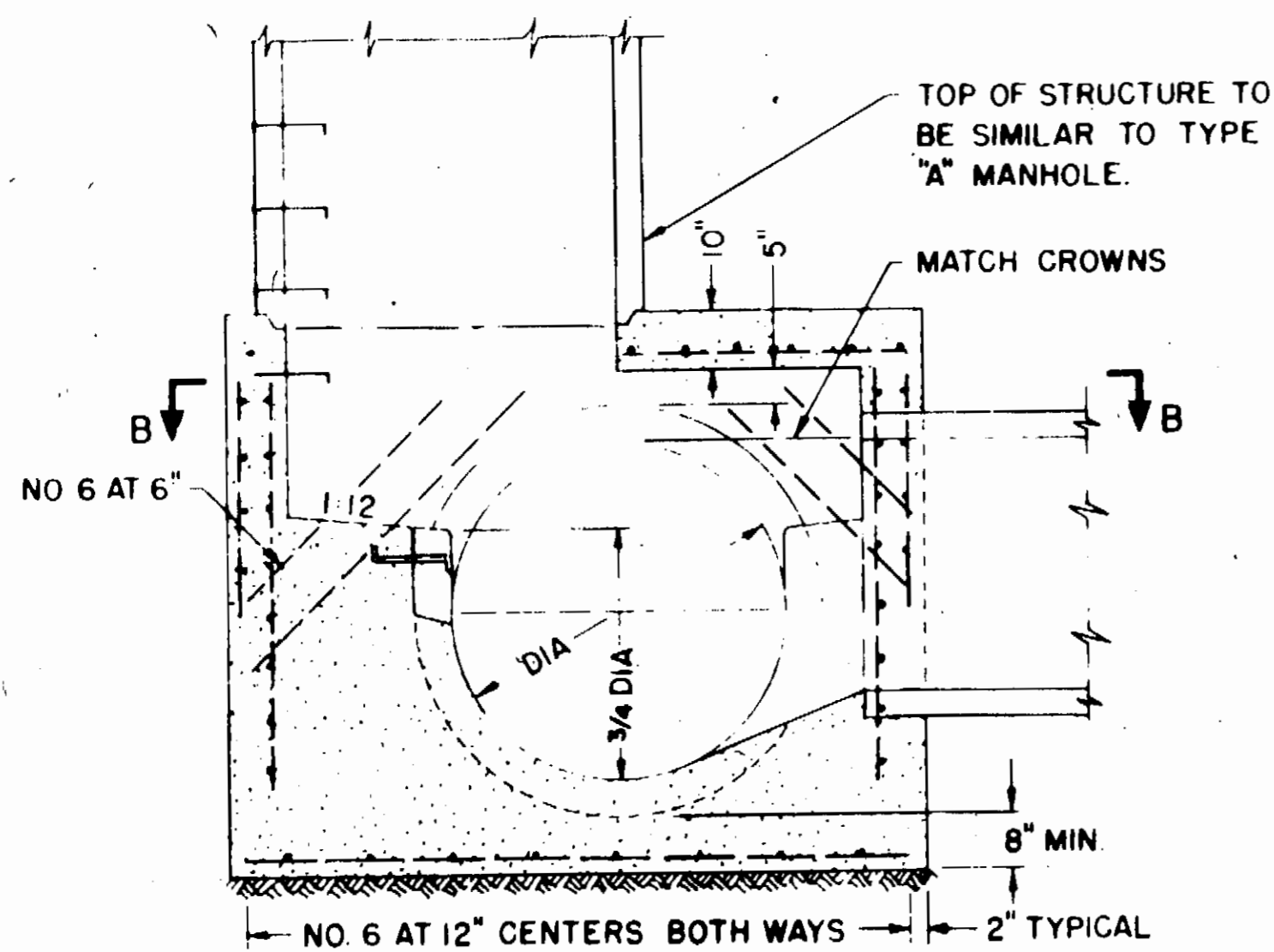


TOP VIEW
TYPE D MANHOLE



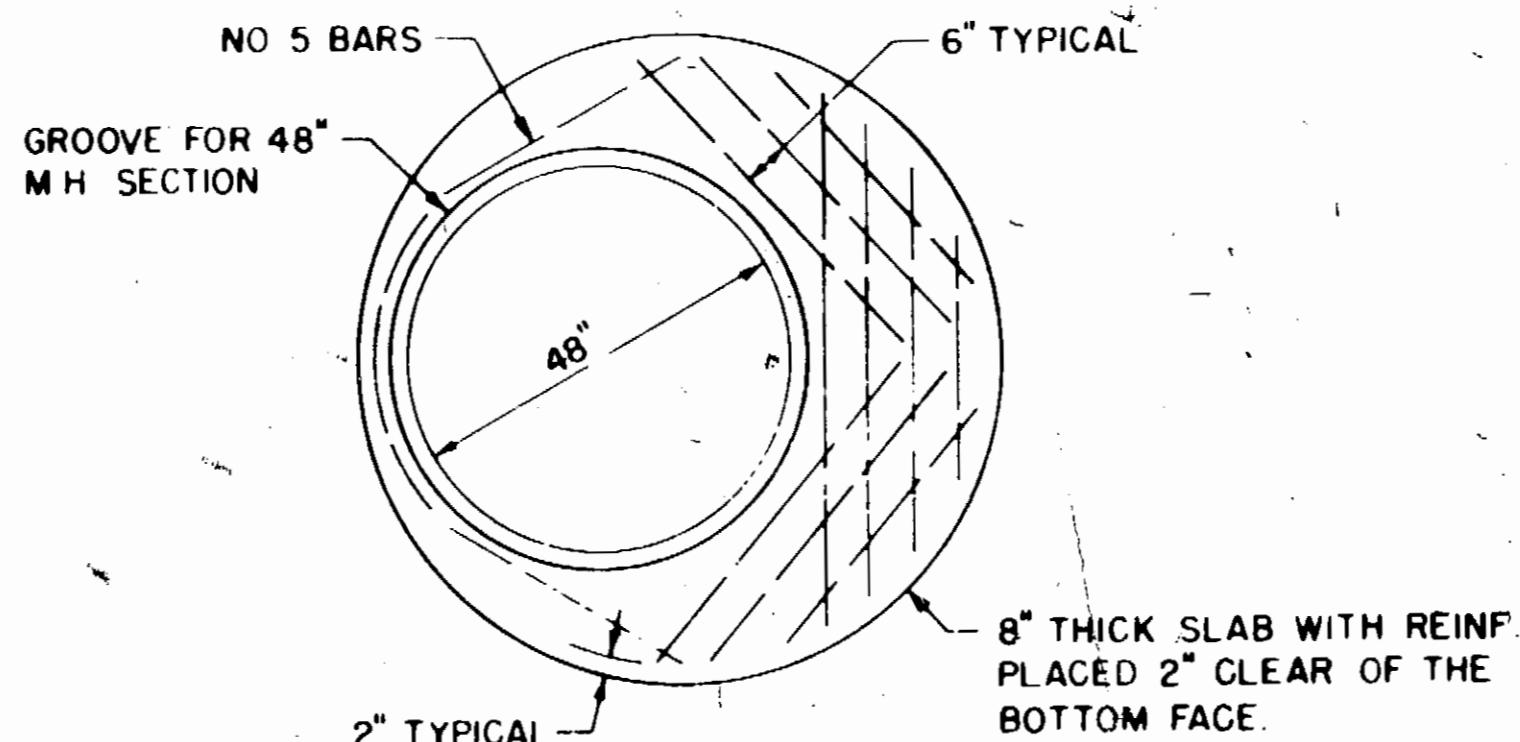
NOTE: CUT OPENING IN PIPE FOR RECESSED STEP AS SHOWN

TOP VIEW

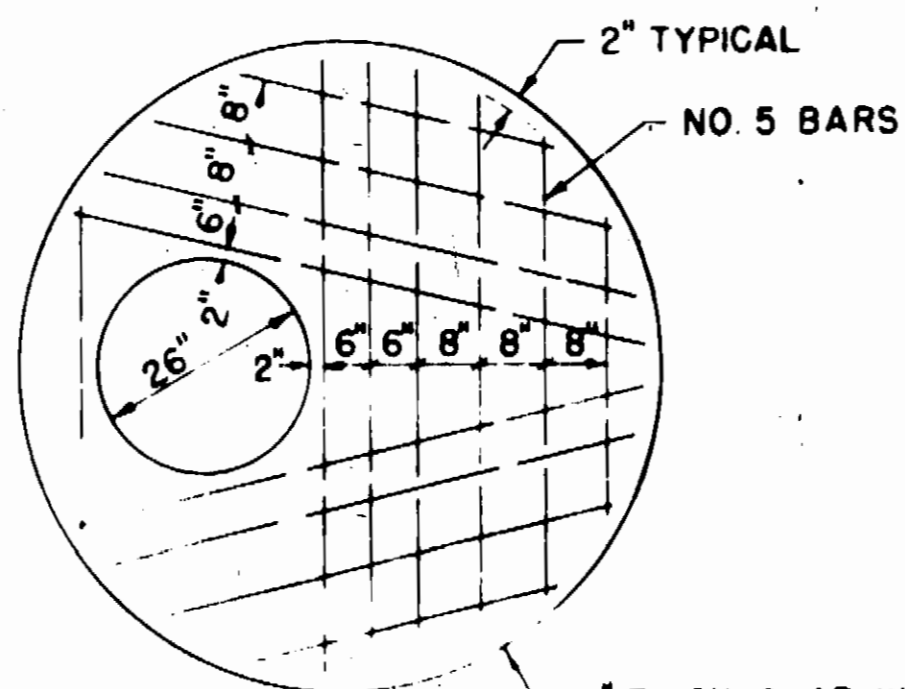


SECTION A-A

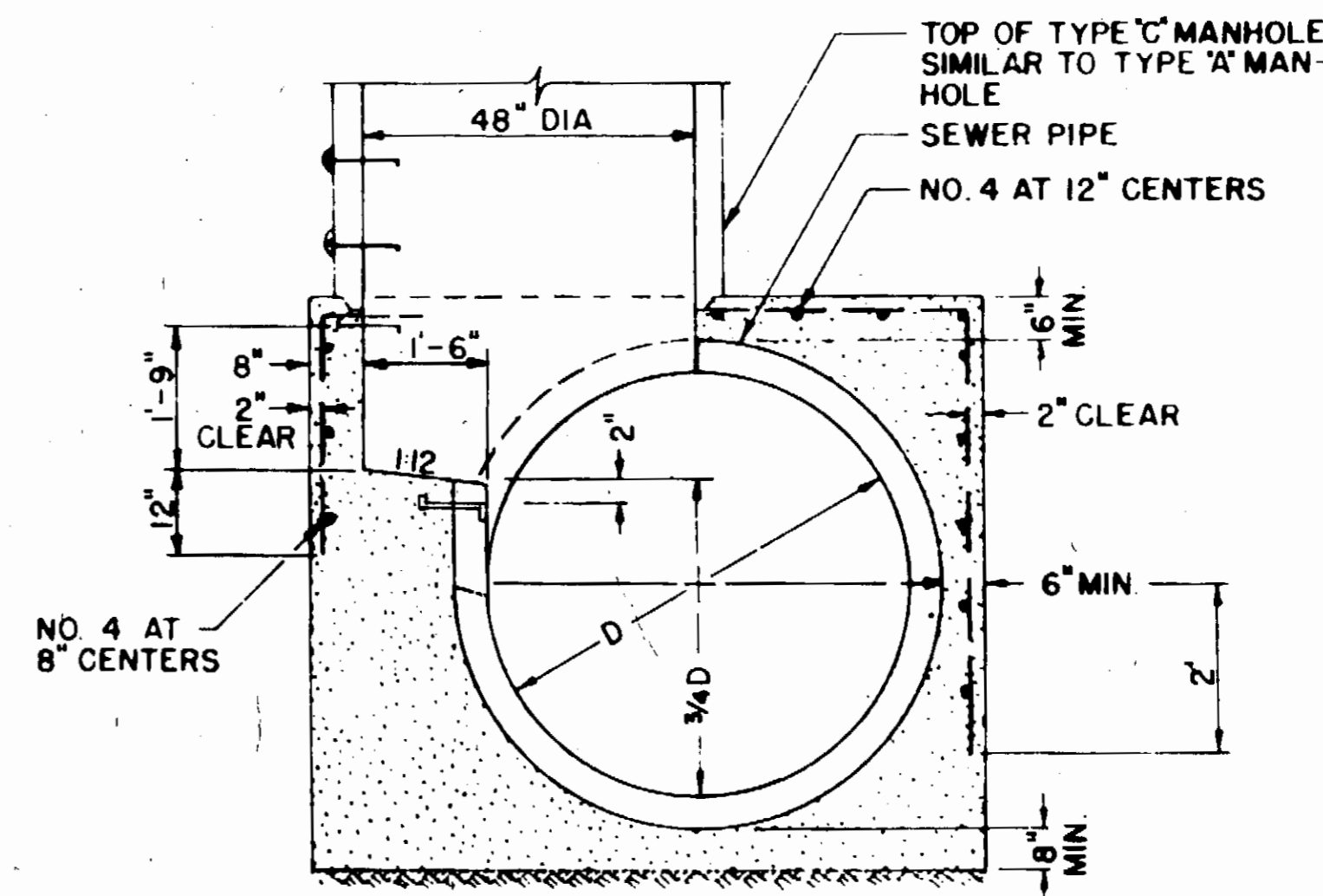
TYPE D MANHOLE
PIPE DIA 48" TO 54" INCLUSIVE
DEFLECTION ANGLE (Δ) FROM
30° TO 90°
SCALE: NONE



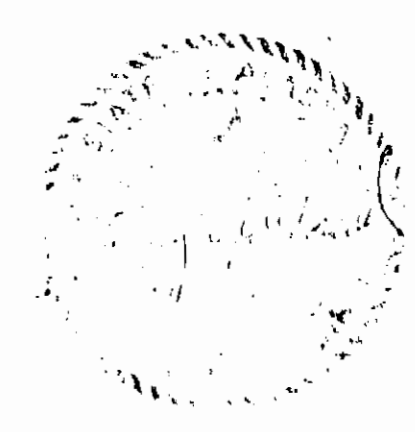
TYPE B MANHOLE
PRECAST CONCRETE REDUCING SLAB
72" TO 48"
SCALE 1/2" = 1'-0"



TYPE B MANHOLE
PRECAST CONCRETE REDUCING SLAB
72" TO 26"
SCALE 1/2" = 1'-0"



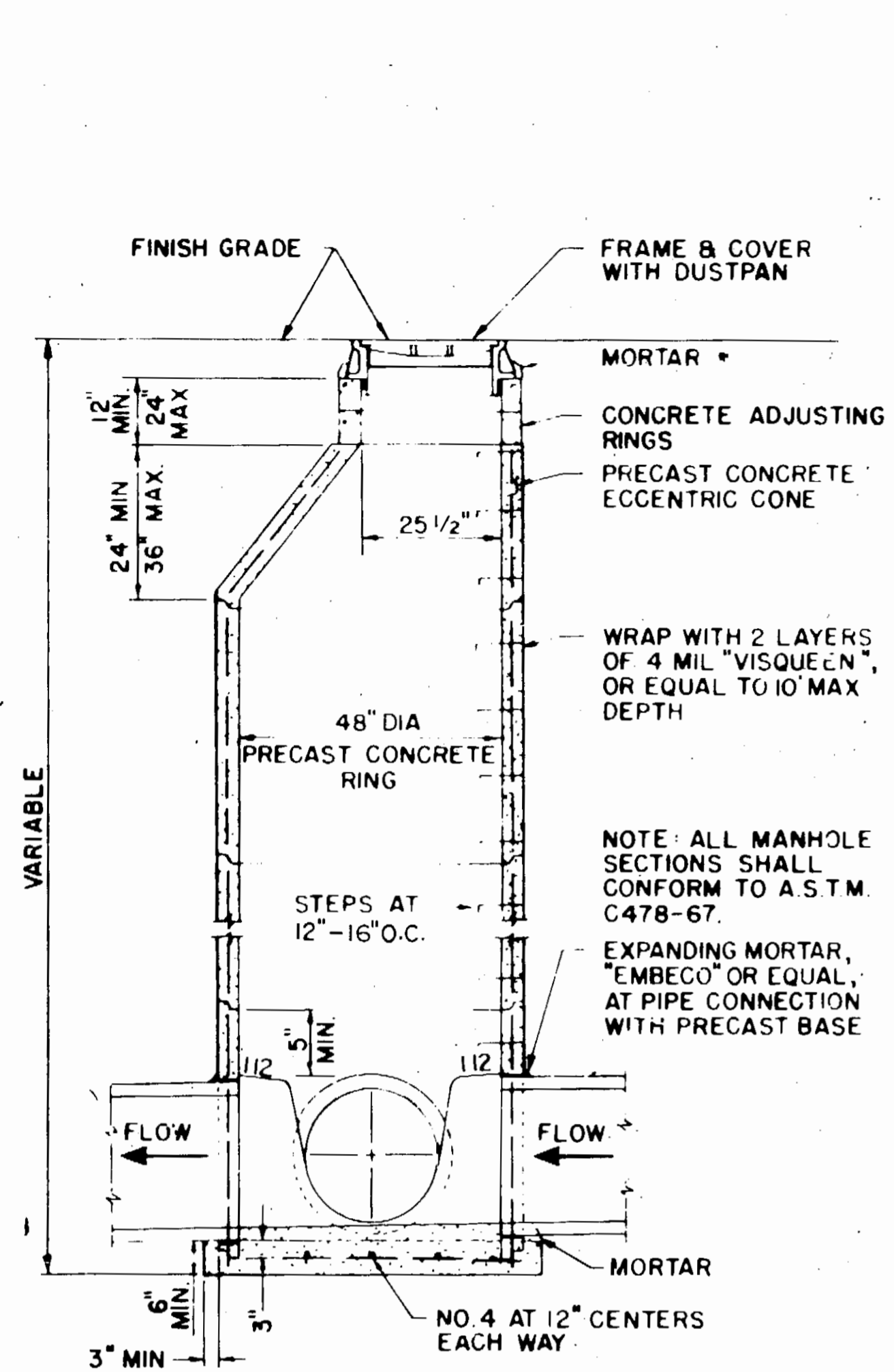
TYPE C MANHOLE
PIPE DIA 48" TO 54" INCLUSIVE
DEFLECTION ANGLE (Δ) NOT TO EXCEED 30°
SCALE NONE



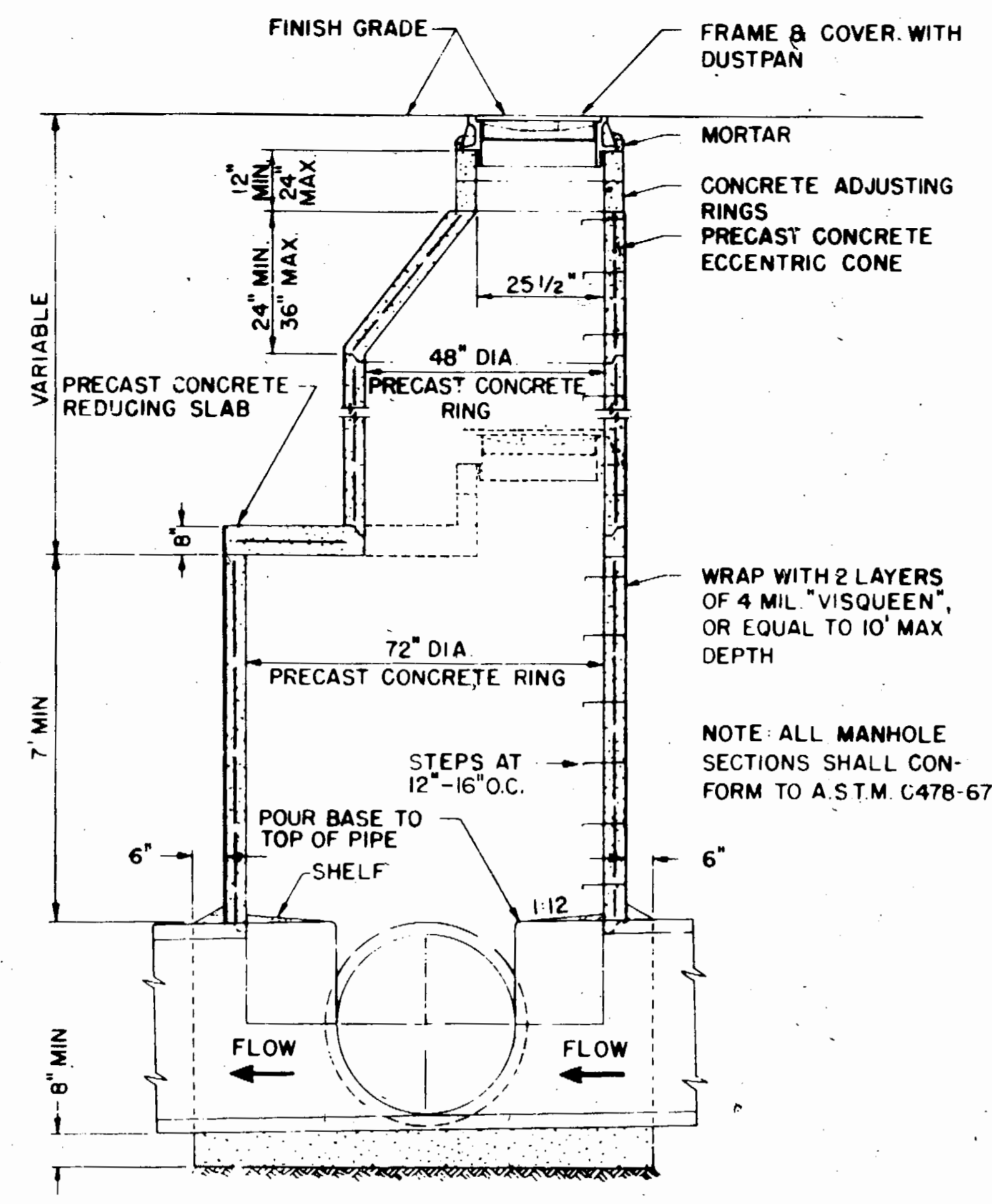
DESIGNED T.S.		APPROVED <i>T.S.</i>		BOROUGH ENGINEERS A JOINT VENTURE TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES	GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT	STANDARD DETAILS TURNAGAIN INTERCEPTOR	SHEET 15 of 19
DRAWN E.L.		SCALE AS NOTED DATE MAY, 1971					
DATE	NO.	REVISION	BY	CHECKED T.S.	FILE 2560		

9302

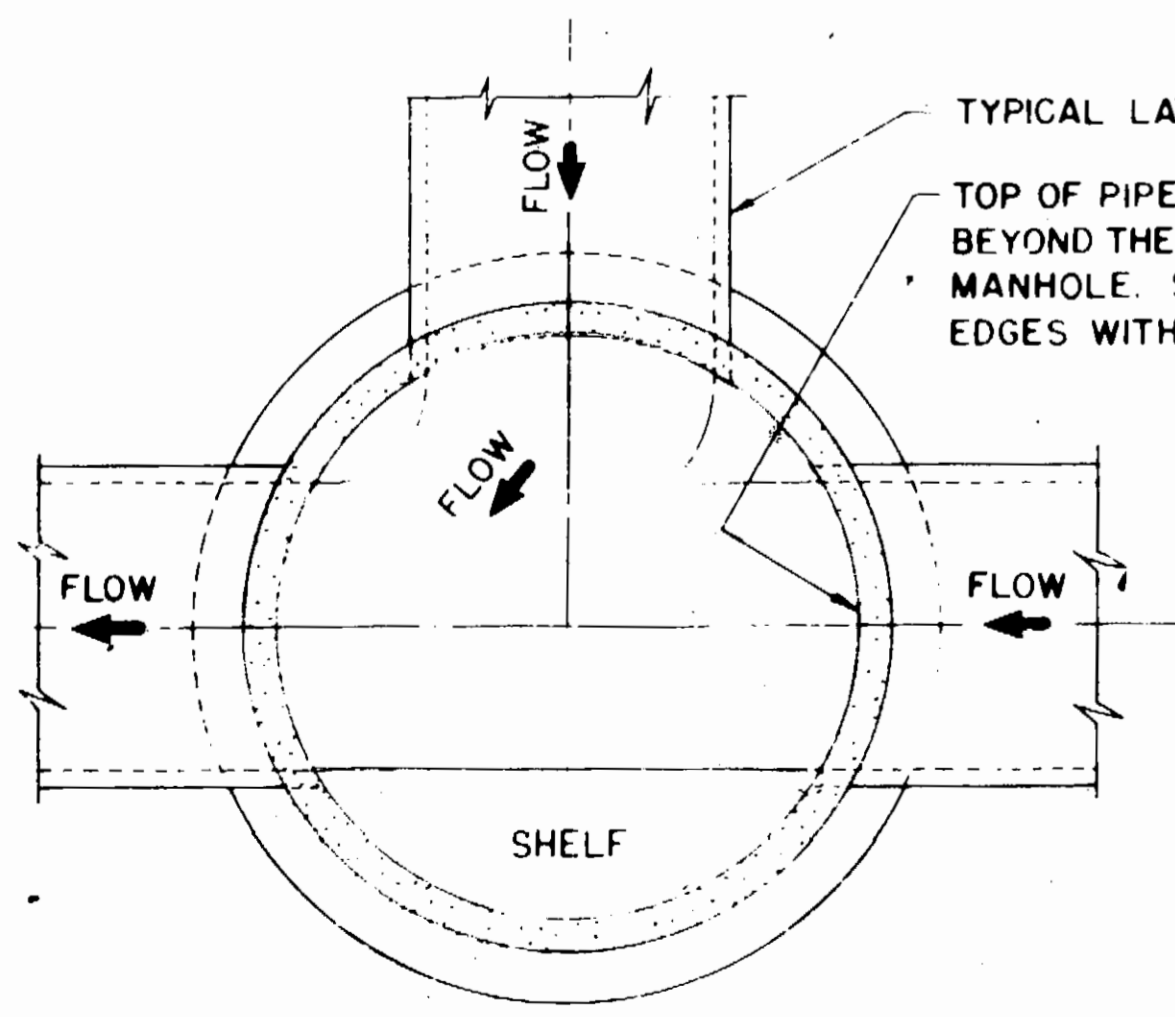
2180



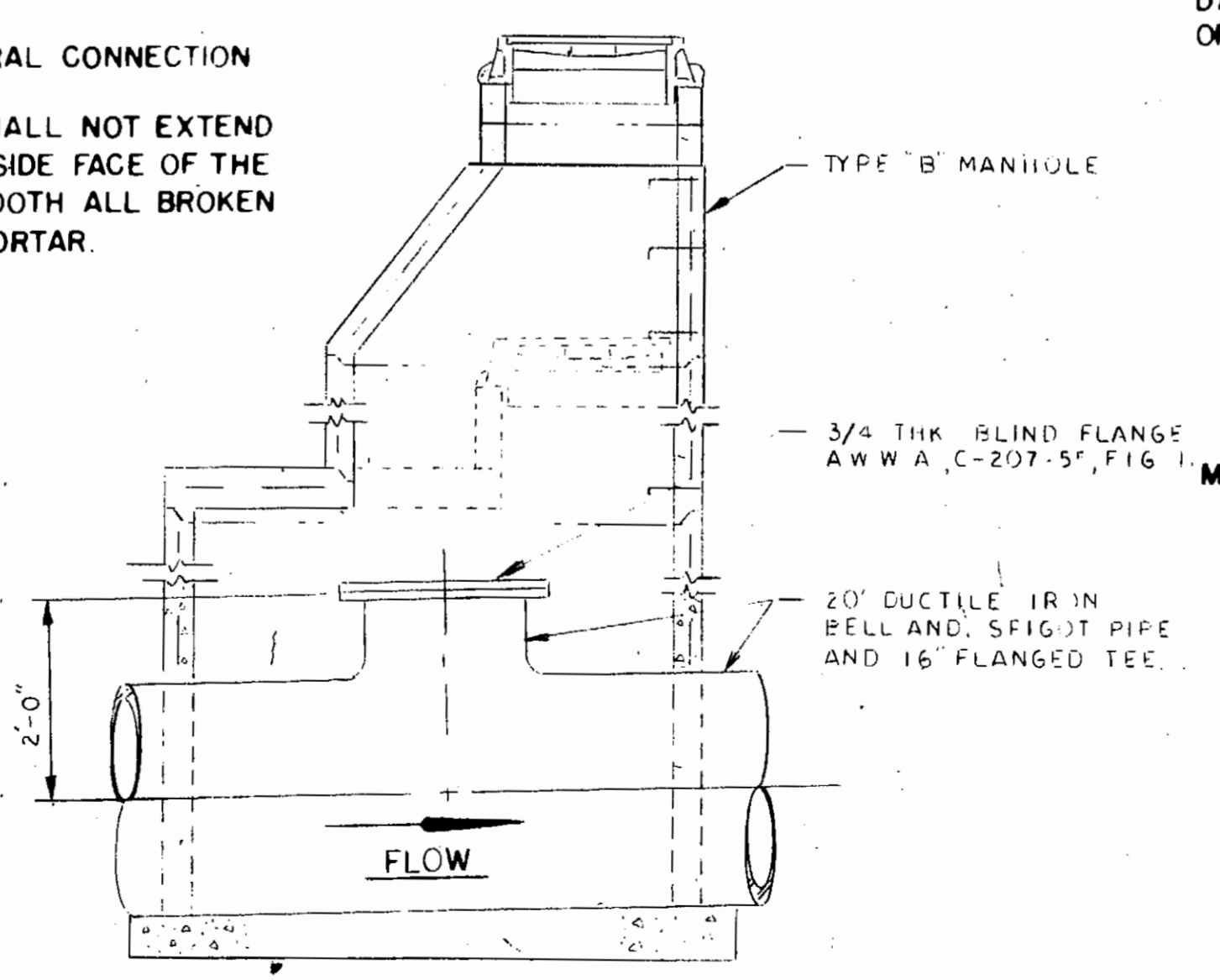
TYPE A MANHOLE
PIPE DIA 8" TO 30" INCLUSIVE
SCALE: 1/2" = 1'-0"



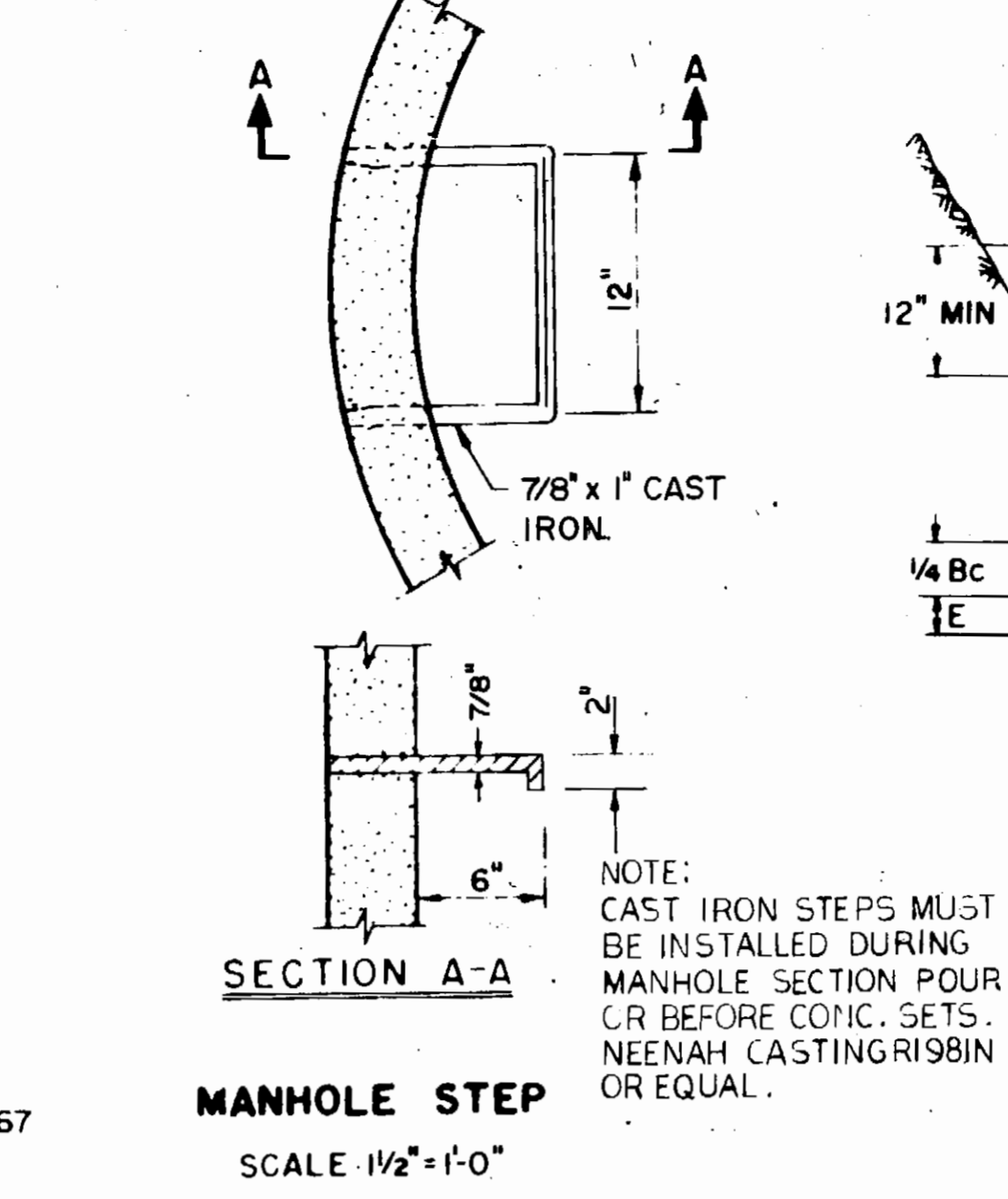
TYPE B MANHOLE
PIPE DIA 36" TO 42" INCLUSIVE
SCALE: 1/2" = 1'-0"



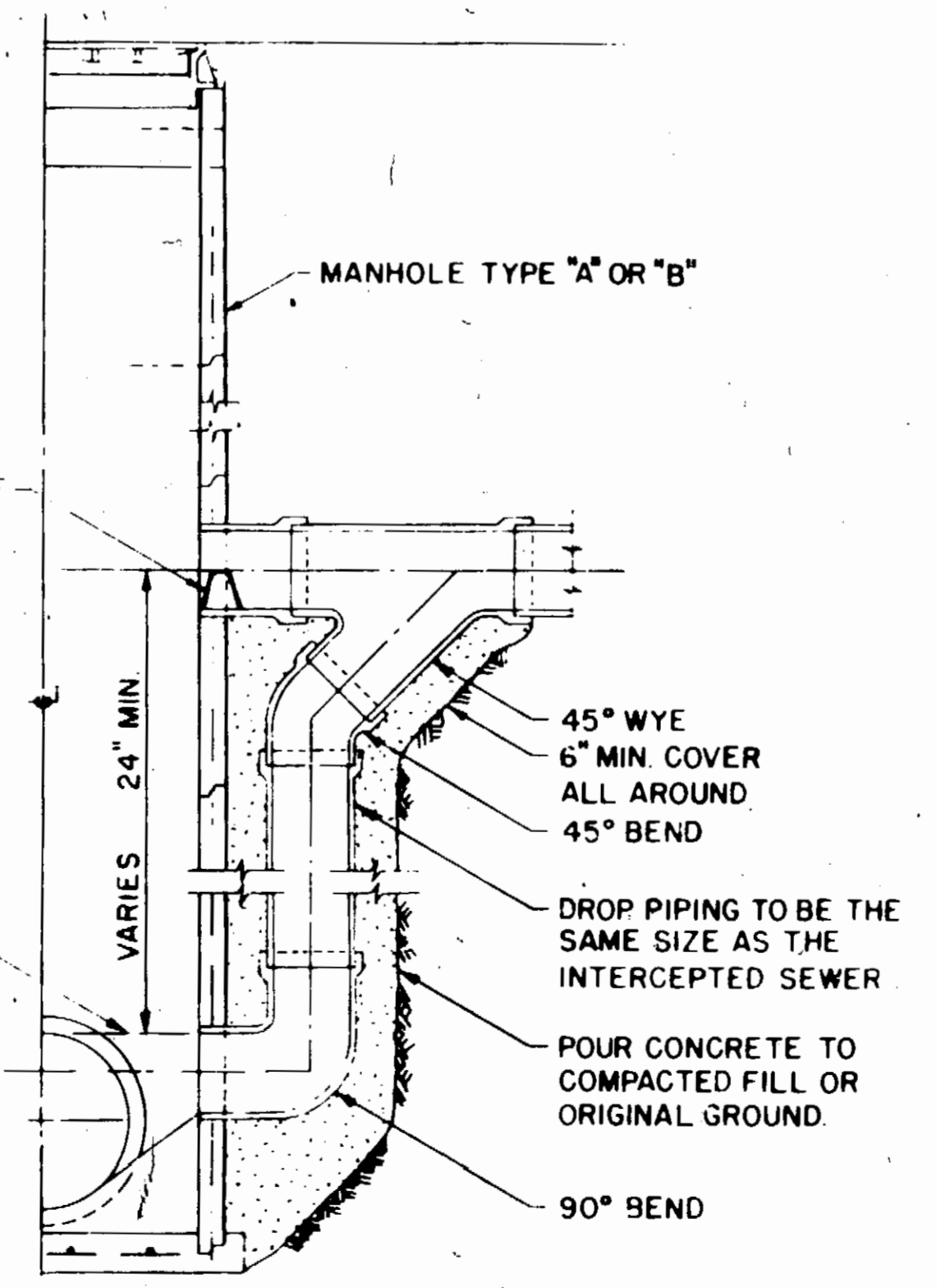
BASE PLAN
TYPE B MANHOLE
(TYPE A MANHOLE SIMILAR)
SCALE: 1/2" = 1'-0"



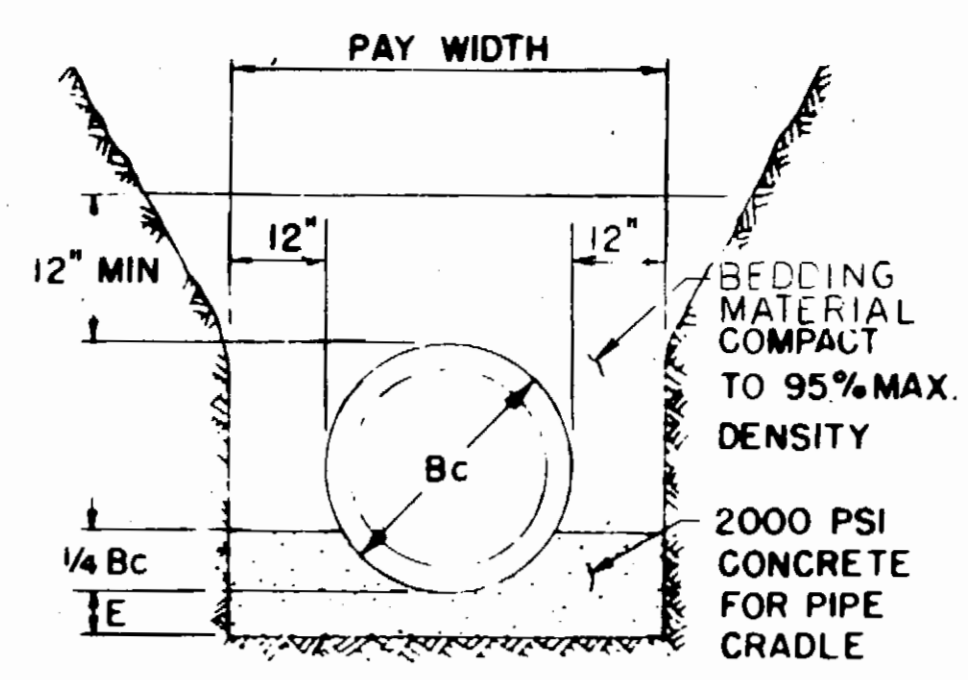
PRESSURE LINE ACCESS TEE DETAIL
SCALE: NONE



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



DROP CONNECTION
TYPE A & B MANHOLE
SCALE: 1/2" = 1'-0"



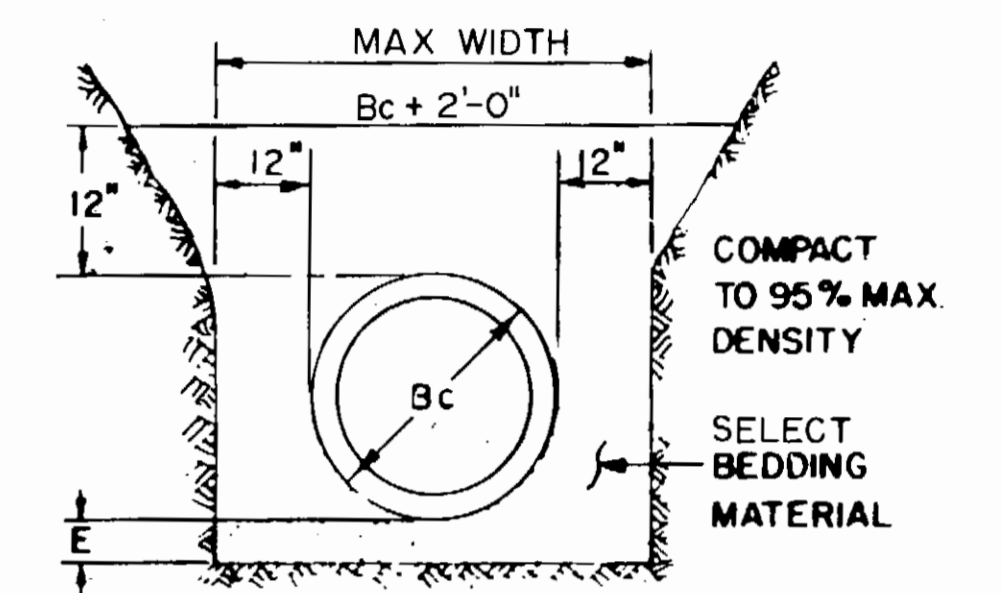
CLASS A BEDDING
NO SCALE

LEGEND

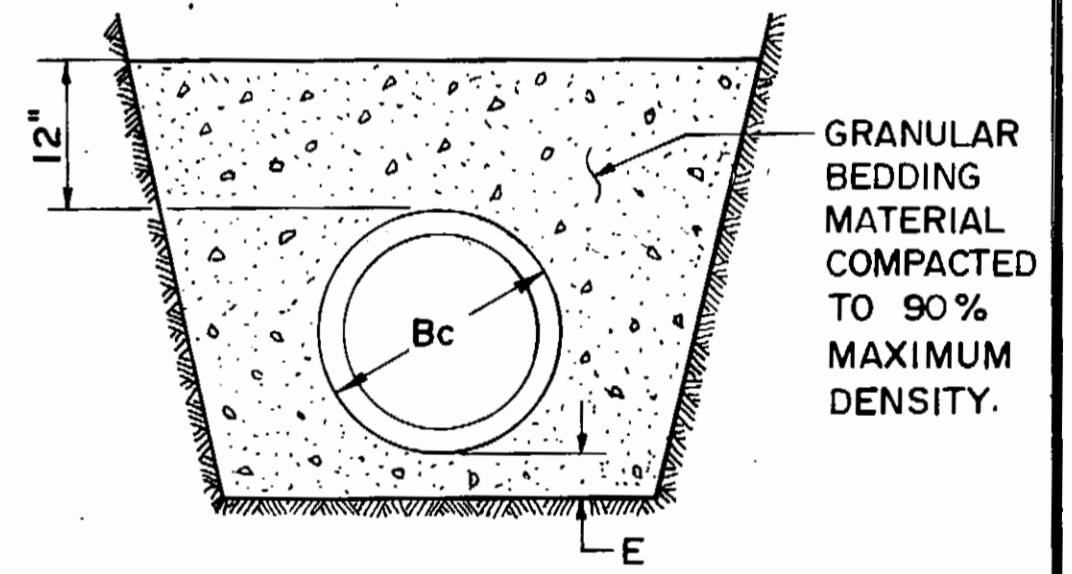
Bc = OUTSIDE PIPE DIAMETER
H = BACKFILL COVER ABOVE TOP OF PIPE.
D = INSIDE PIPE DIAMETER.
E = DEPTH OF BEDDING MATERIAL BELOW PIPE.

DEPTH OF BEDDING MATERIAL BELOW PIPE

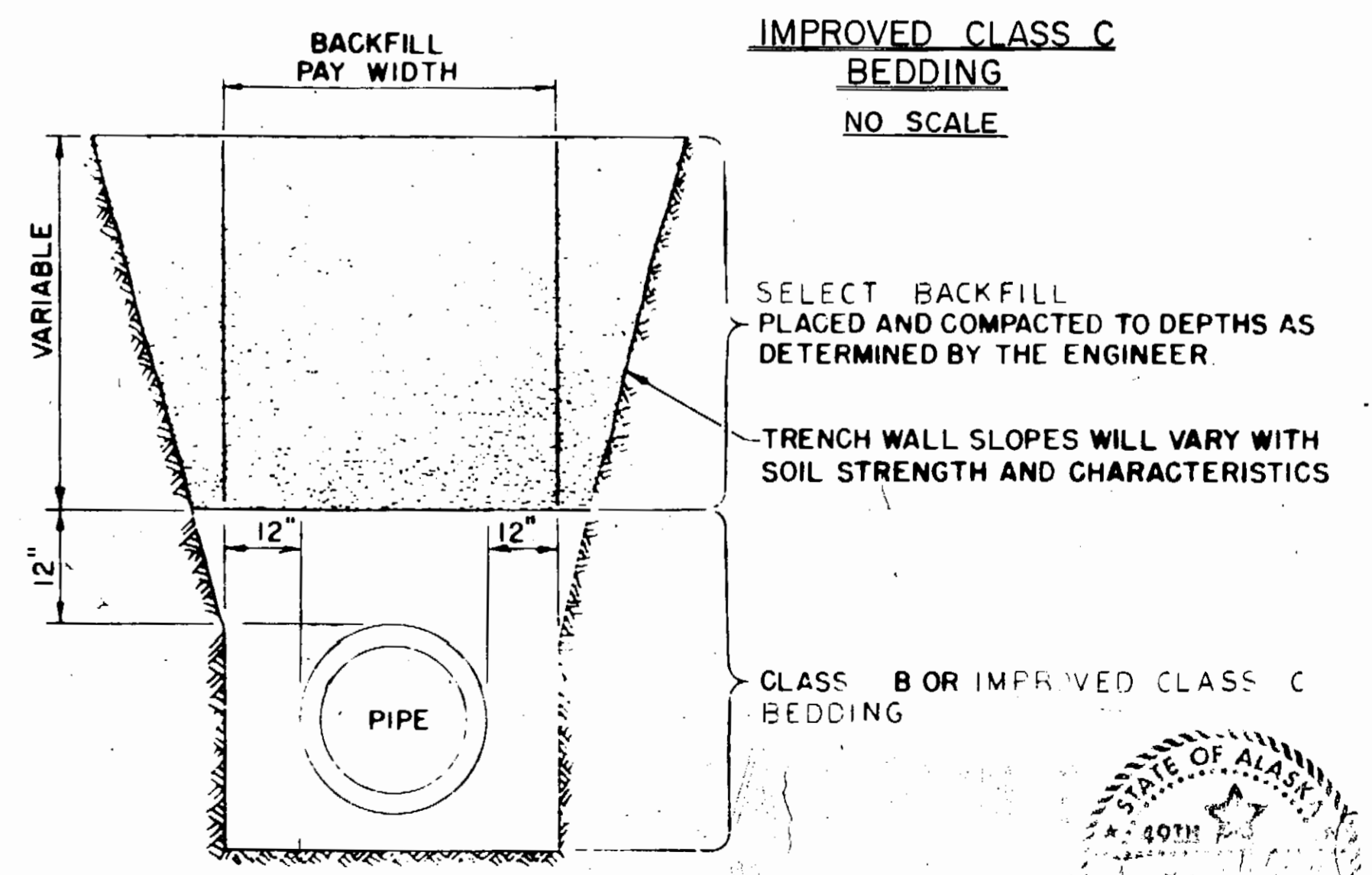
D	E MIN
27" & SMALLER	3"
30" TO 60"	4"
66" & LARGER	6"



CLASS B BEDDING
NO SCALE



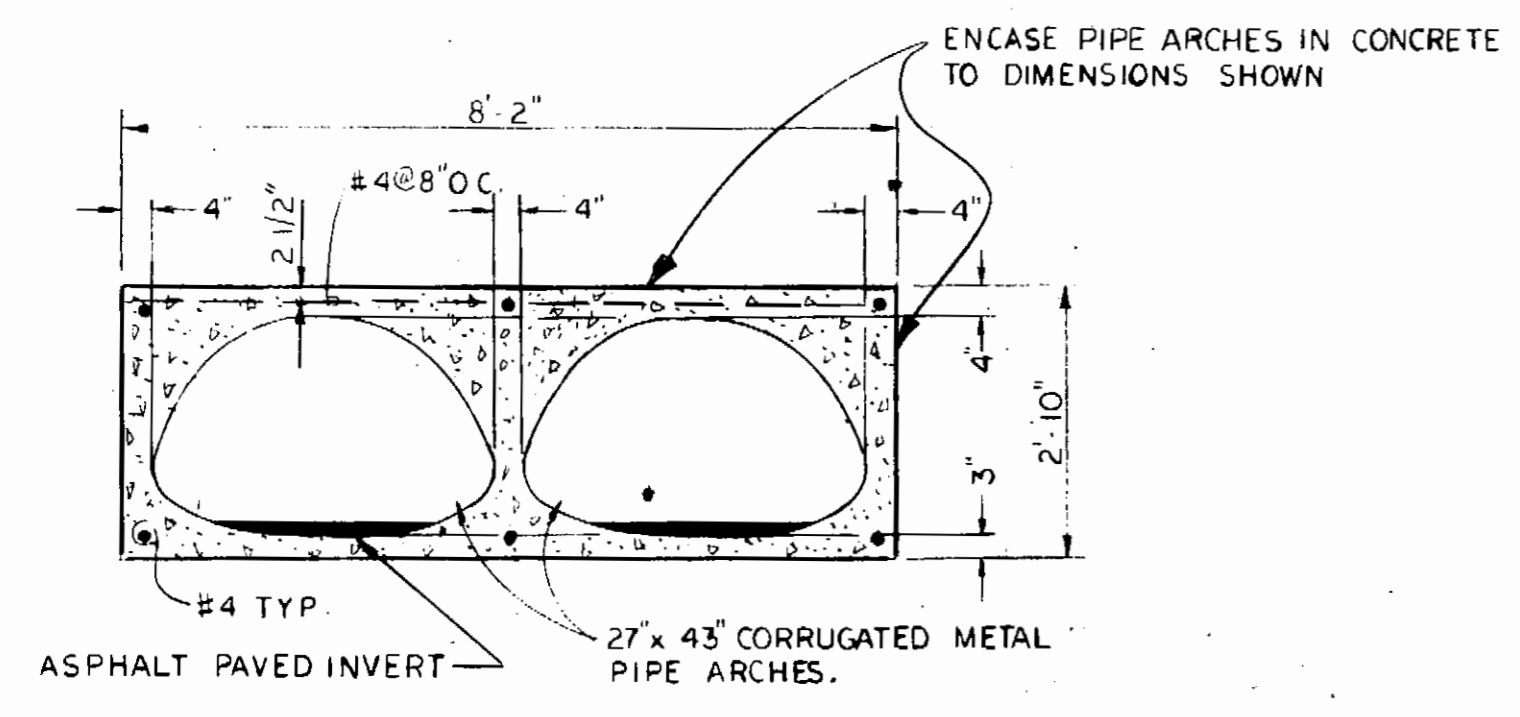
IMPROVED CLASS C BEDDING
NO SCALE



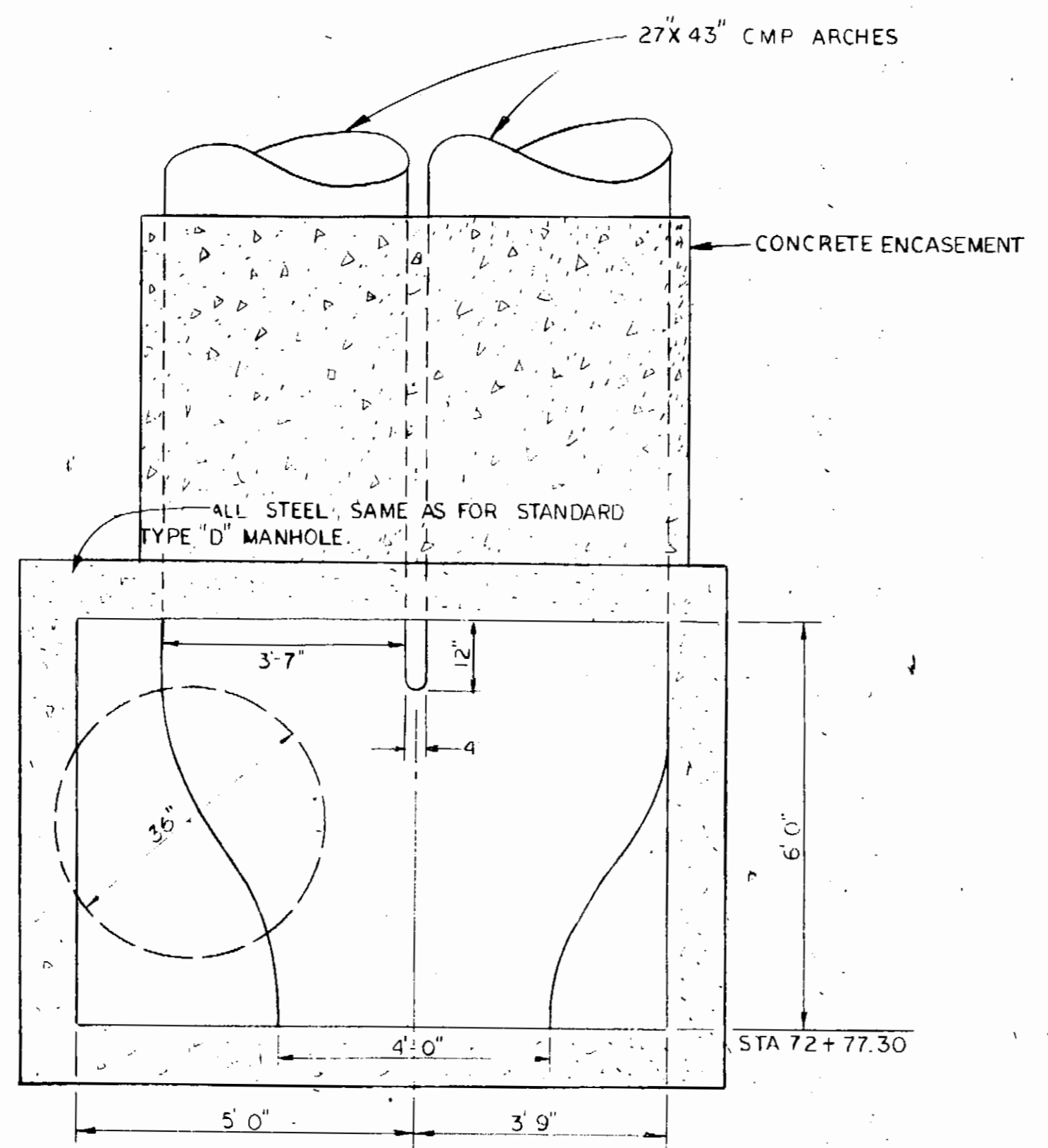
SELECT BACKFILL
SCALE: NONE



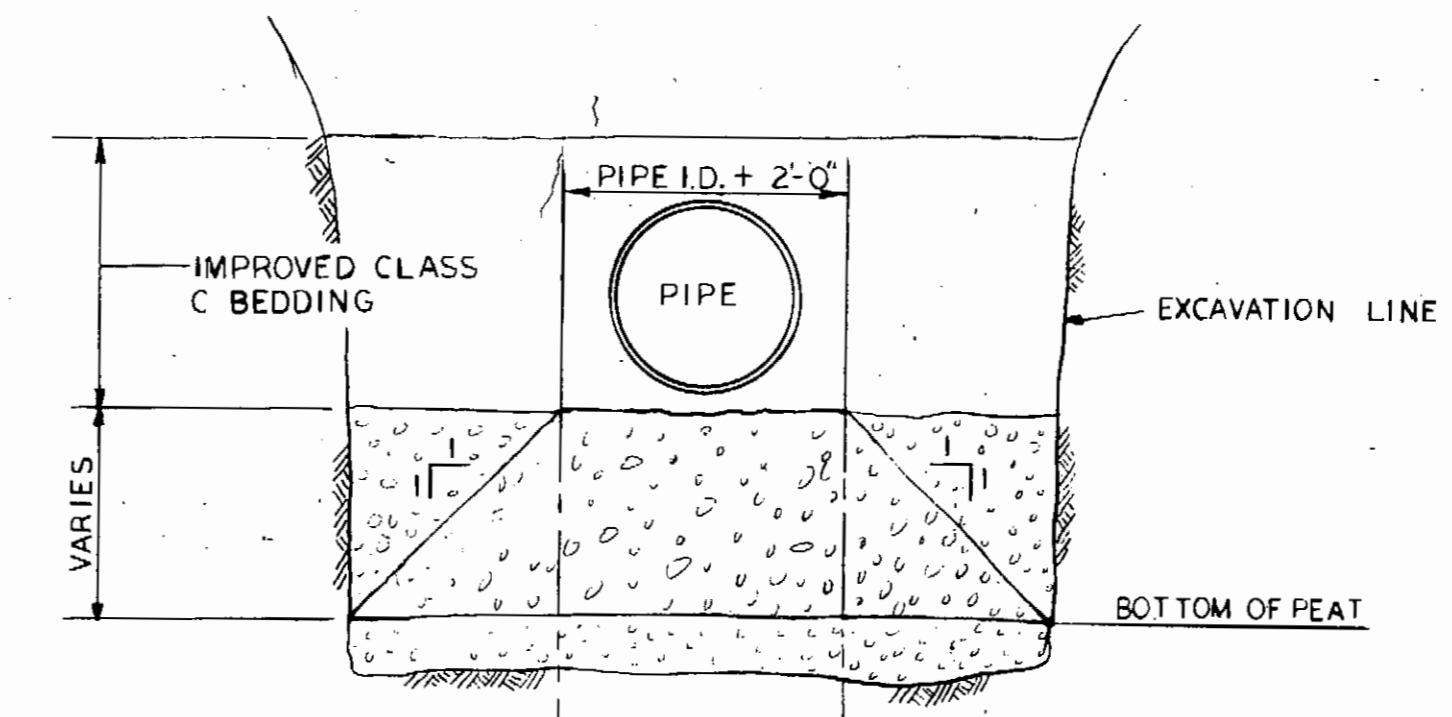
0813



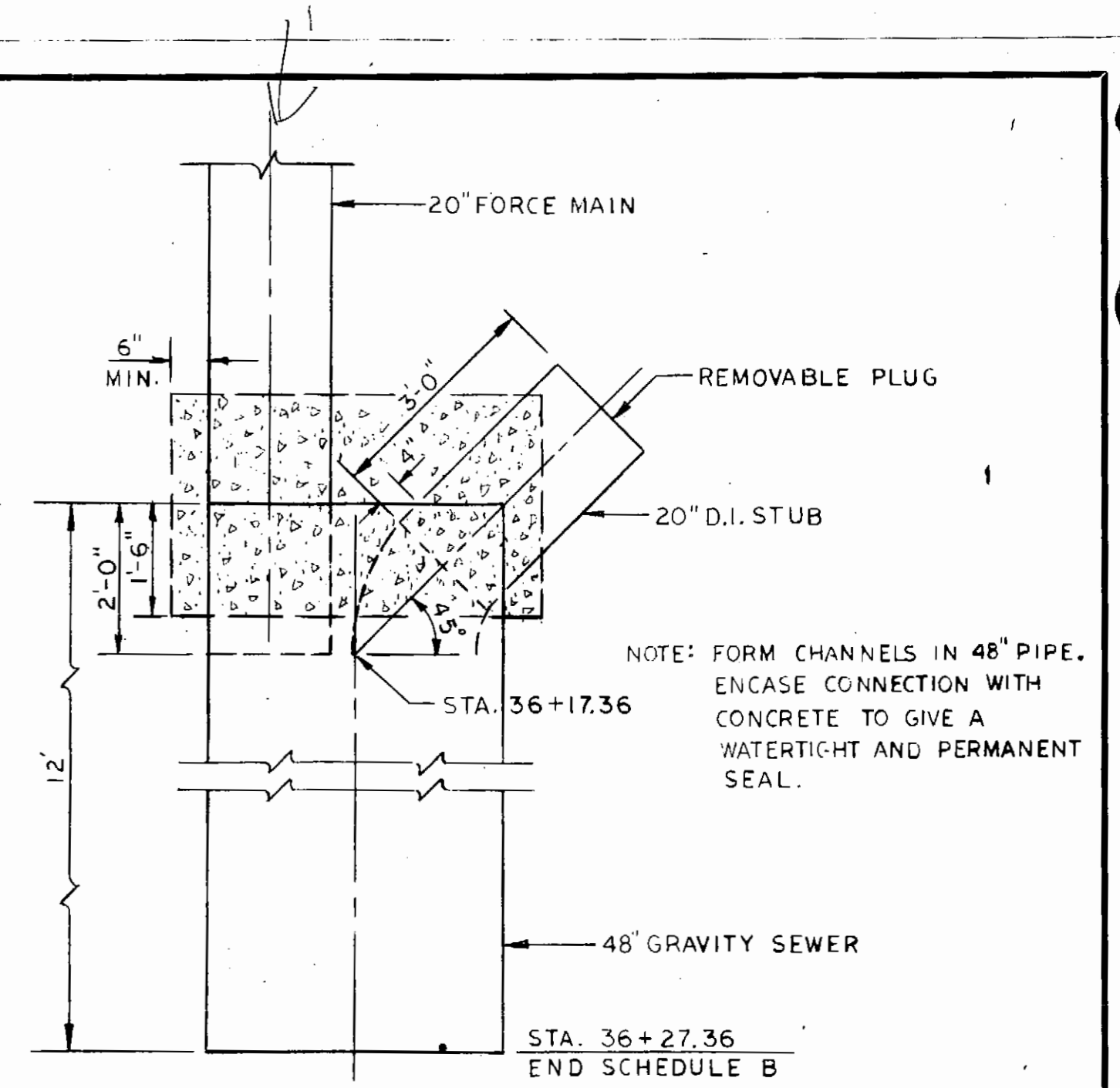
ENCASING DETAIL AT BIRCH LAKE DRAINAGE DITCH
SCALE: NONE



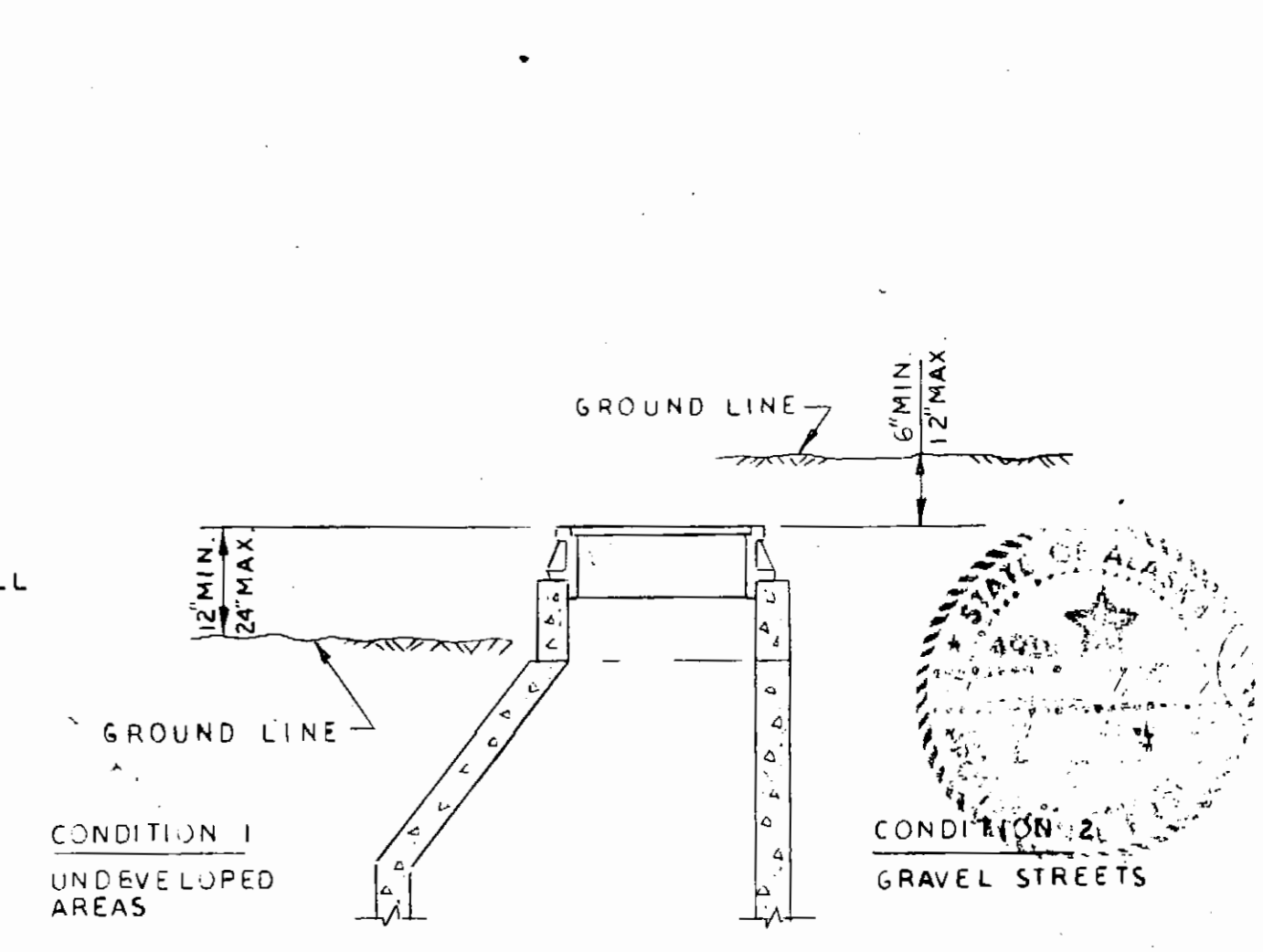
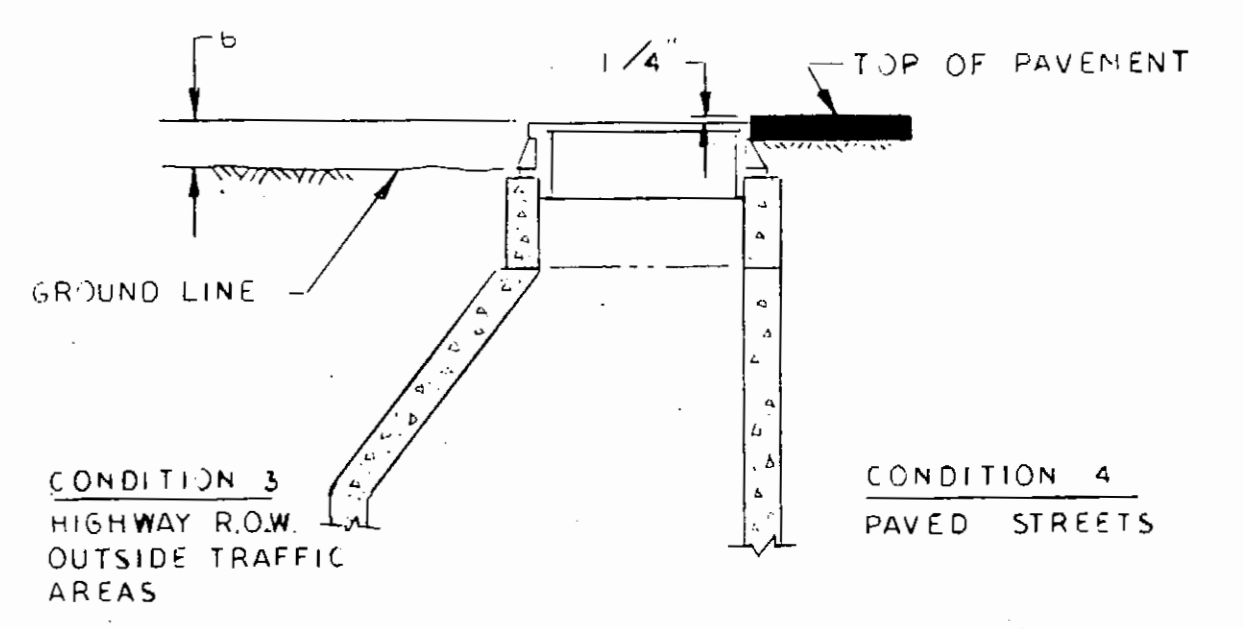
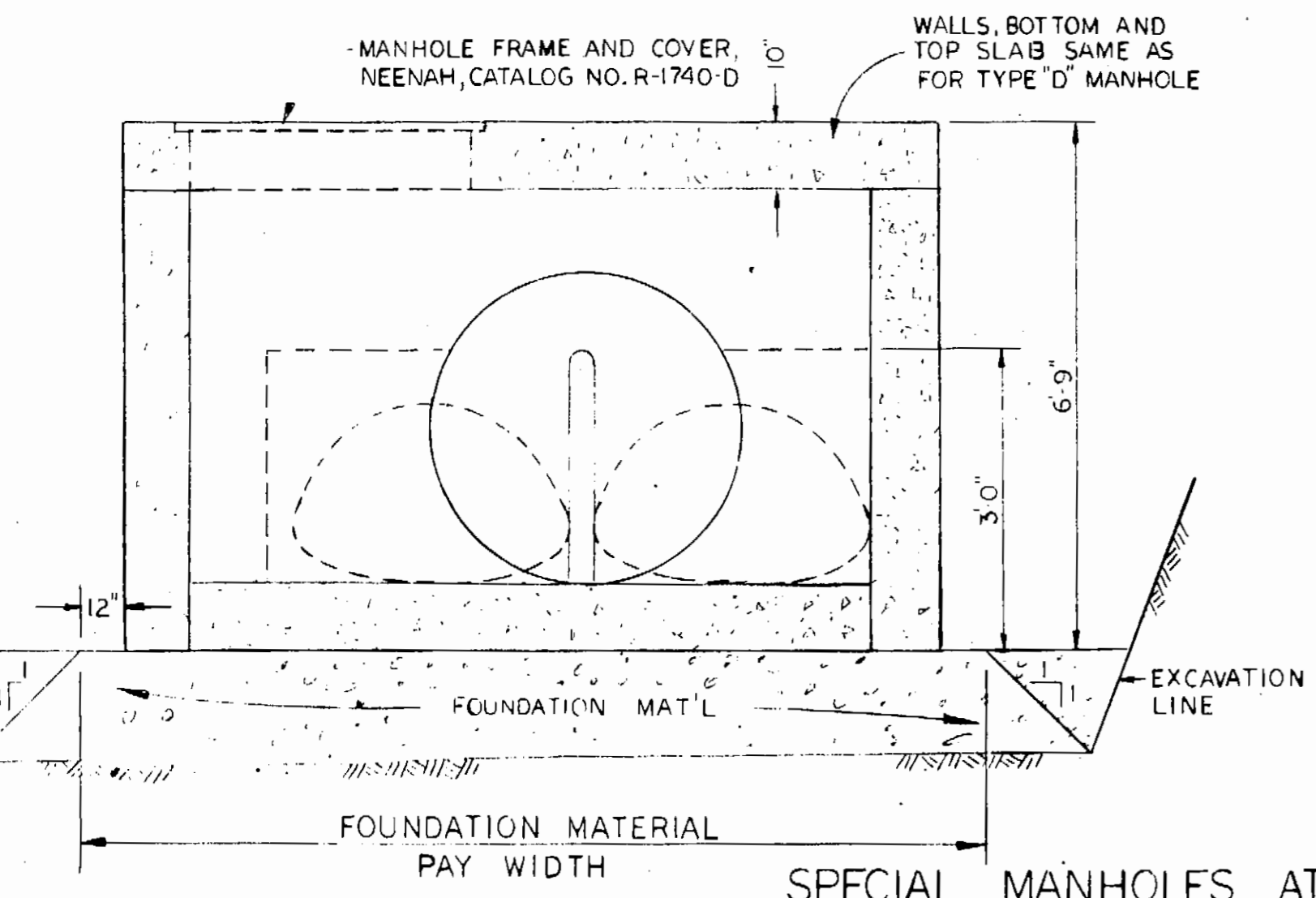
SPECIAL MANHOLES AT BIRCH LAKE
SCALE: NONE



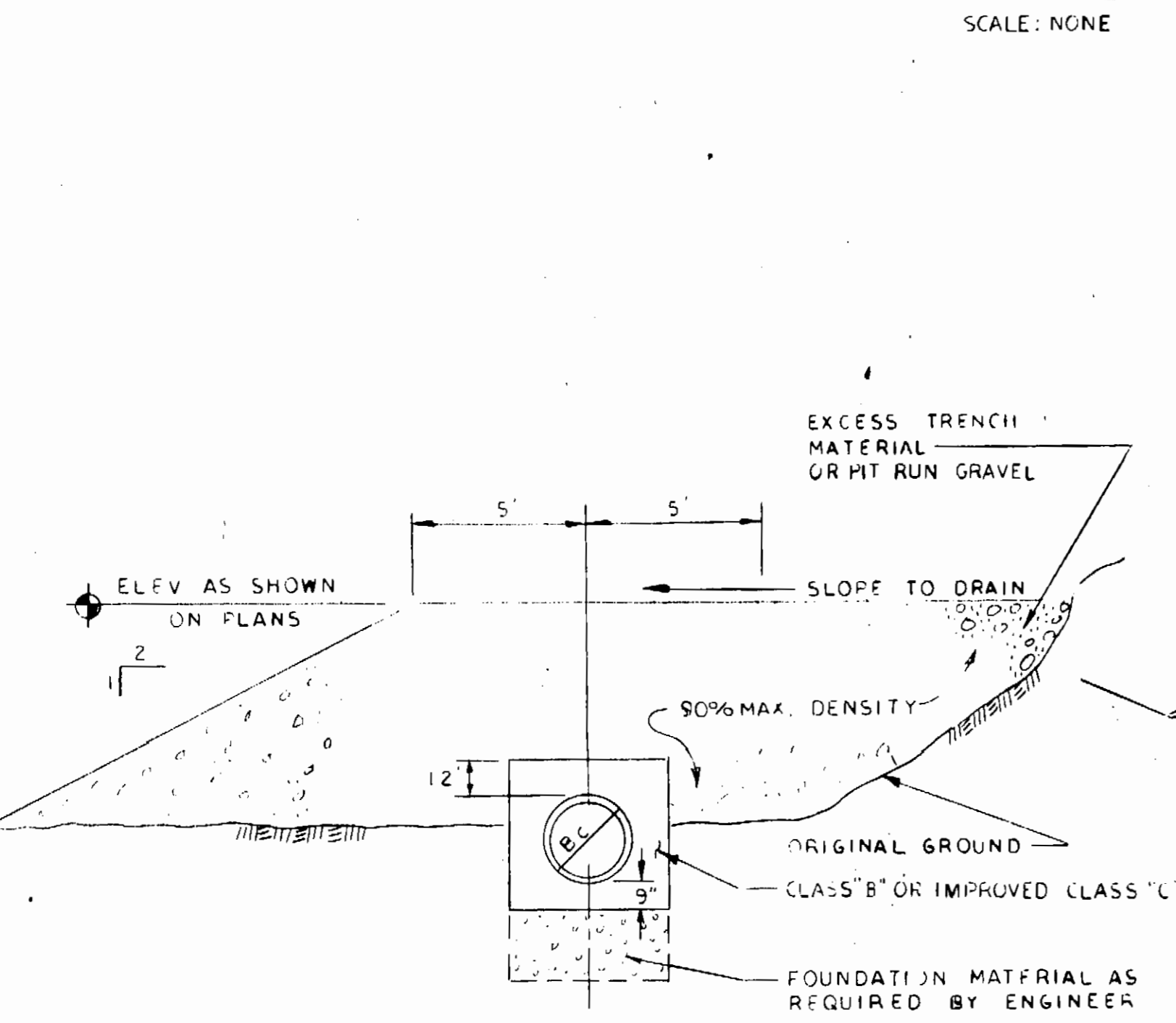
FOUNDATION MAT'L IN PEAT AREAS
NO SCALE



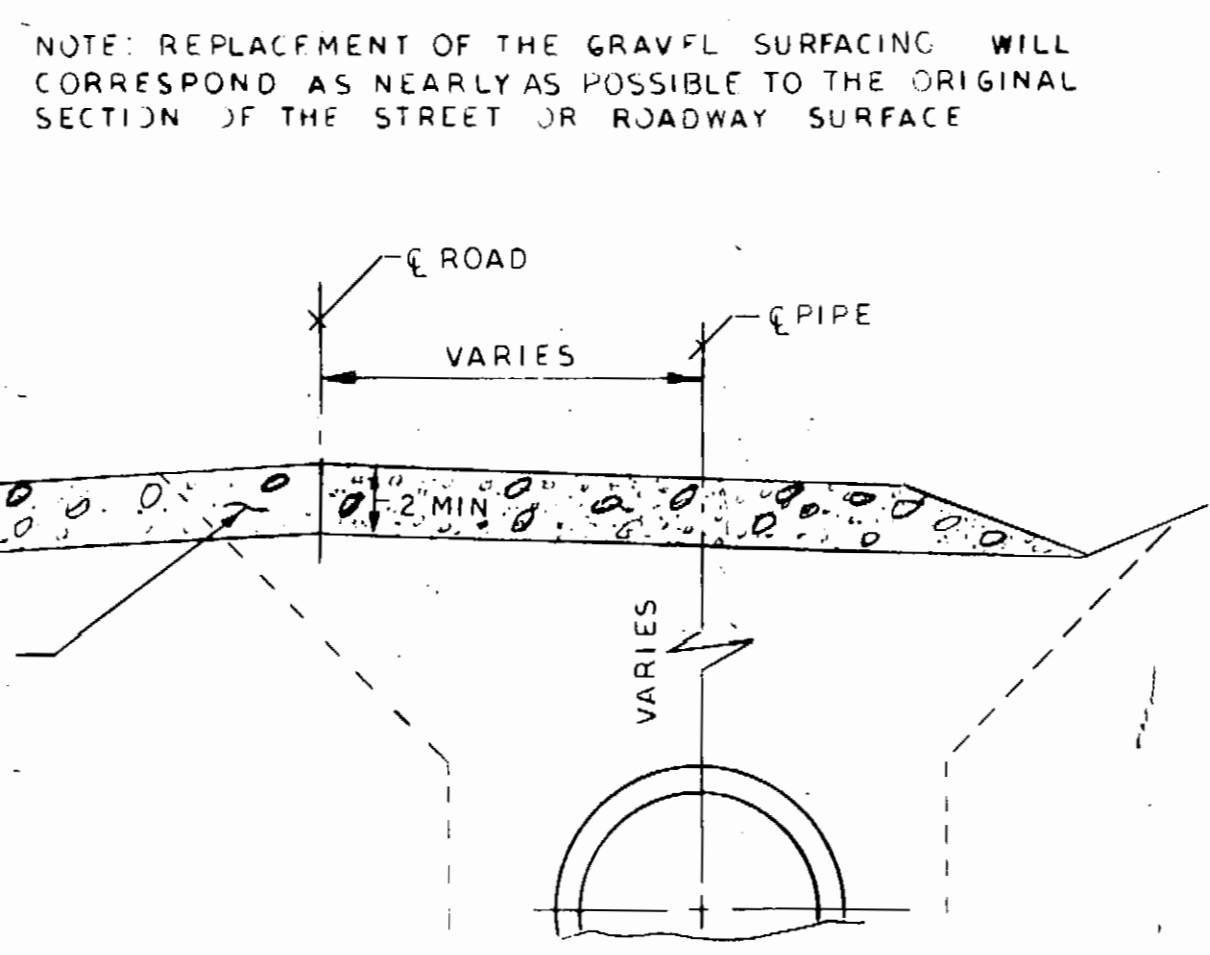
"Y" DETAIL
SCALE: 1/2"=1'-0"



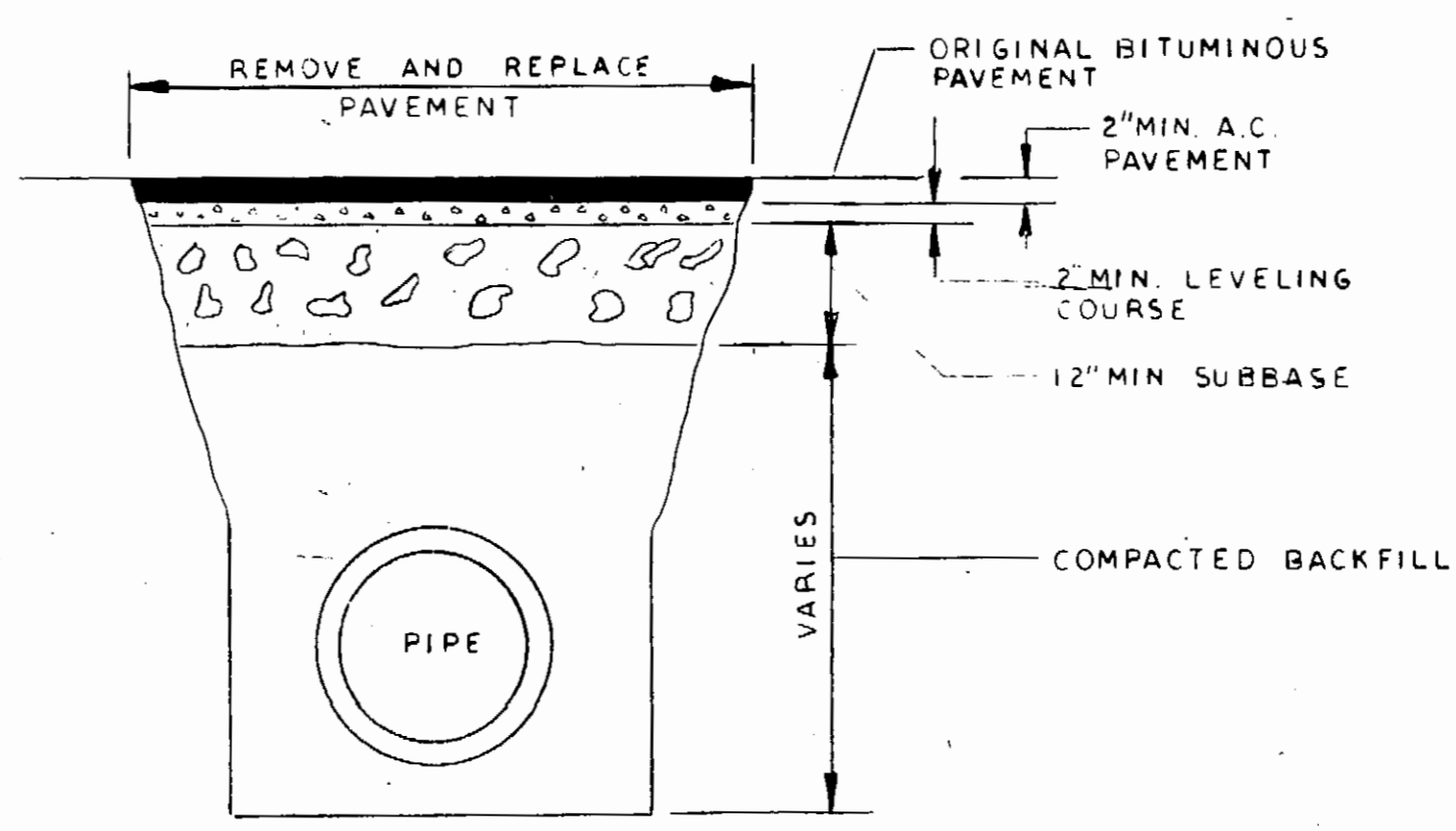
DETAILS FOR MANHOLE HEIGHTS
SCALE: NONE



ADDITIONAL COVER DETAIL
SCALE: NONE



TYPICAL GRAVEL SECTION
SCALE: NONE



TYPICAL PAVEMENT SECTION & RESURFACING DETAIL
SCALE: NONE

DESIGNED T.S.	APPROVED [Signature]
DRAWN E.L.	SCALE AS NOTED DATE MAY 1971
CHECKED T.S.	FILE 2550

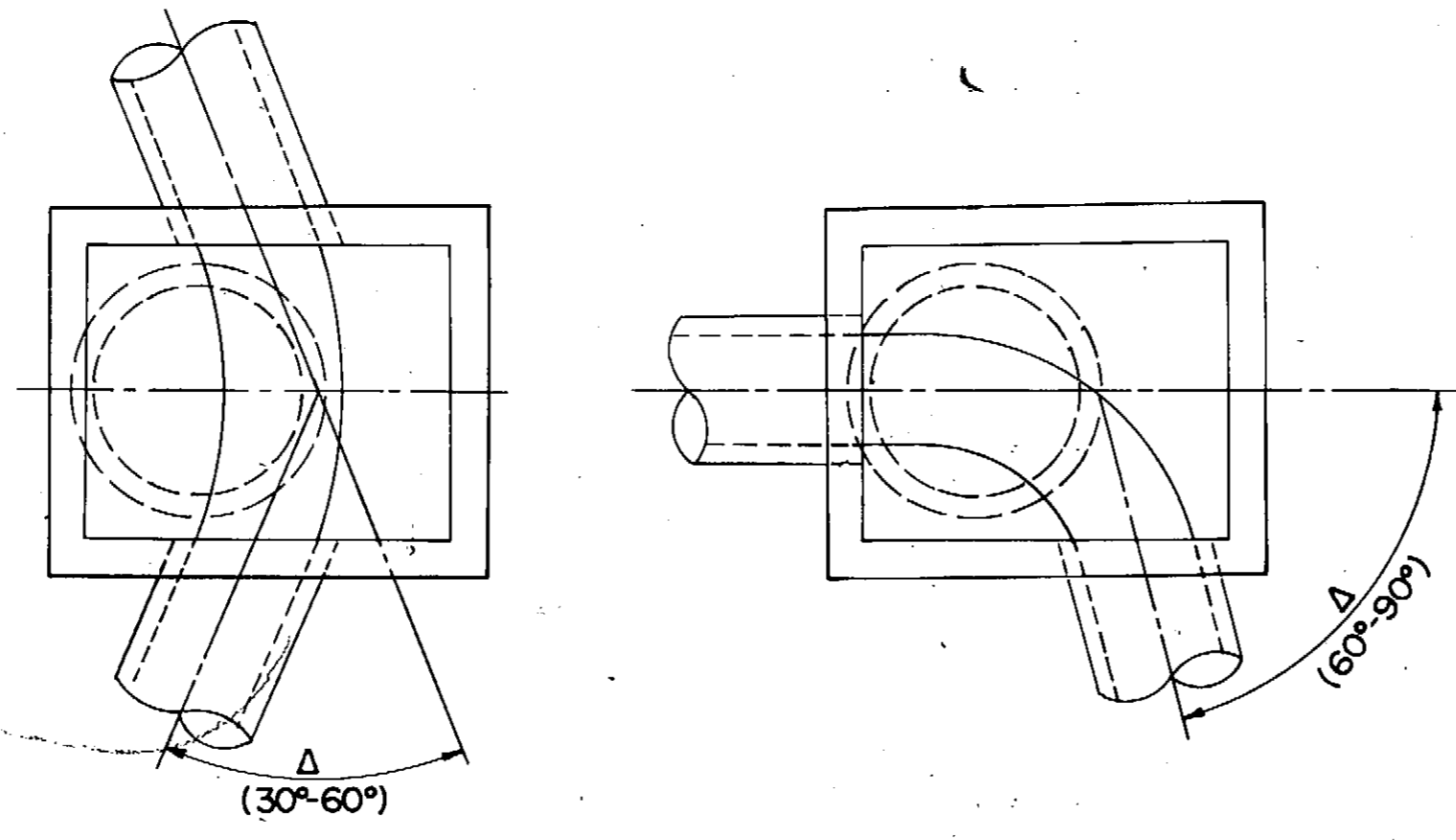
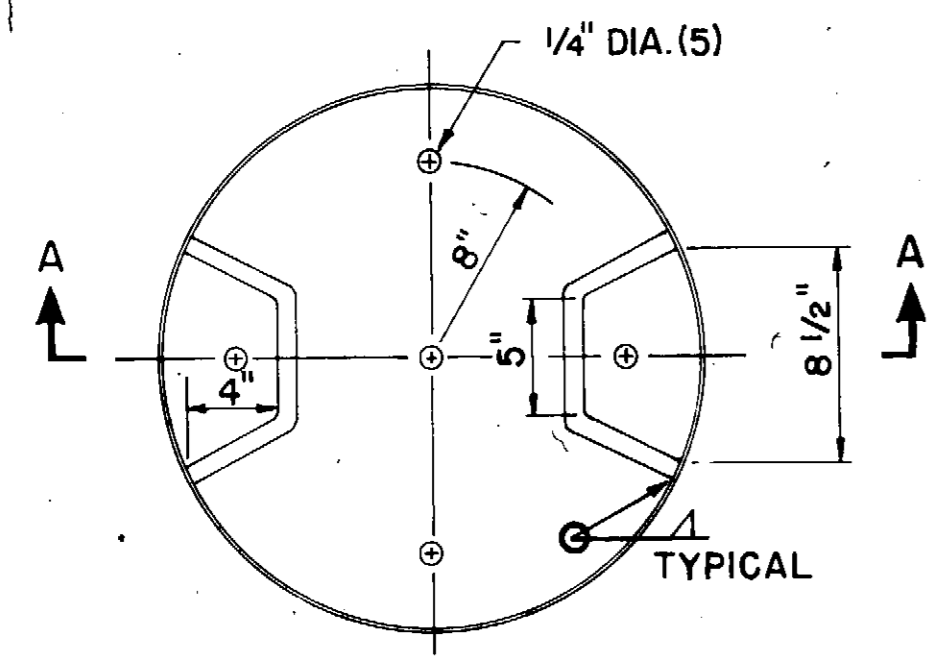
BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



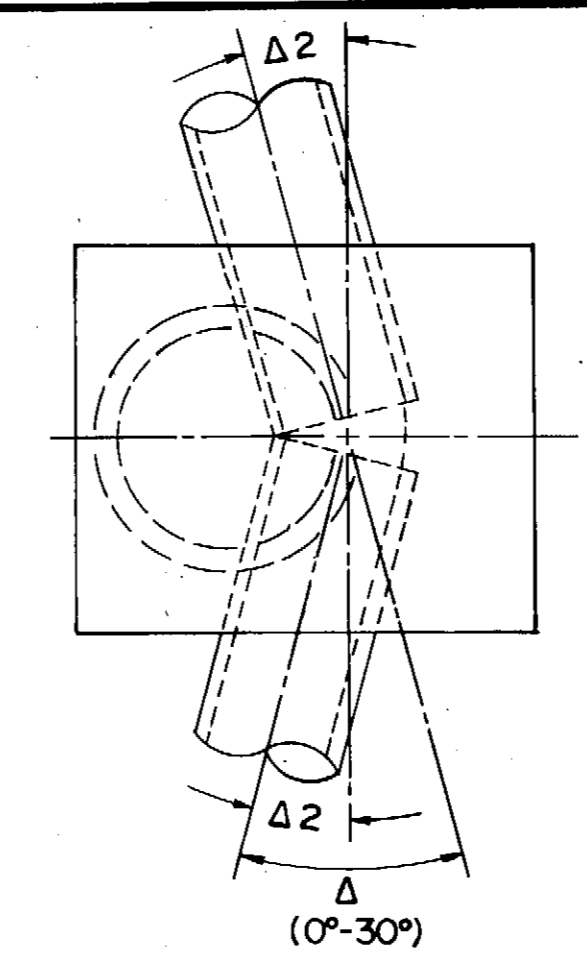
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

STANDARD DETAILS
TURNAGAIN INTERCEPTOR

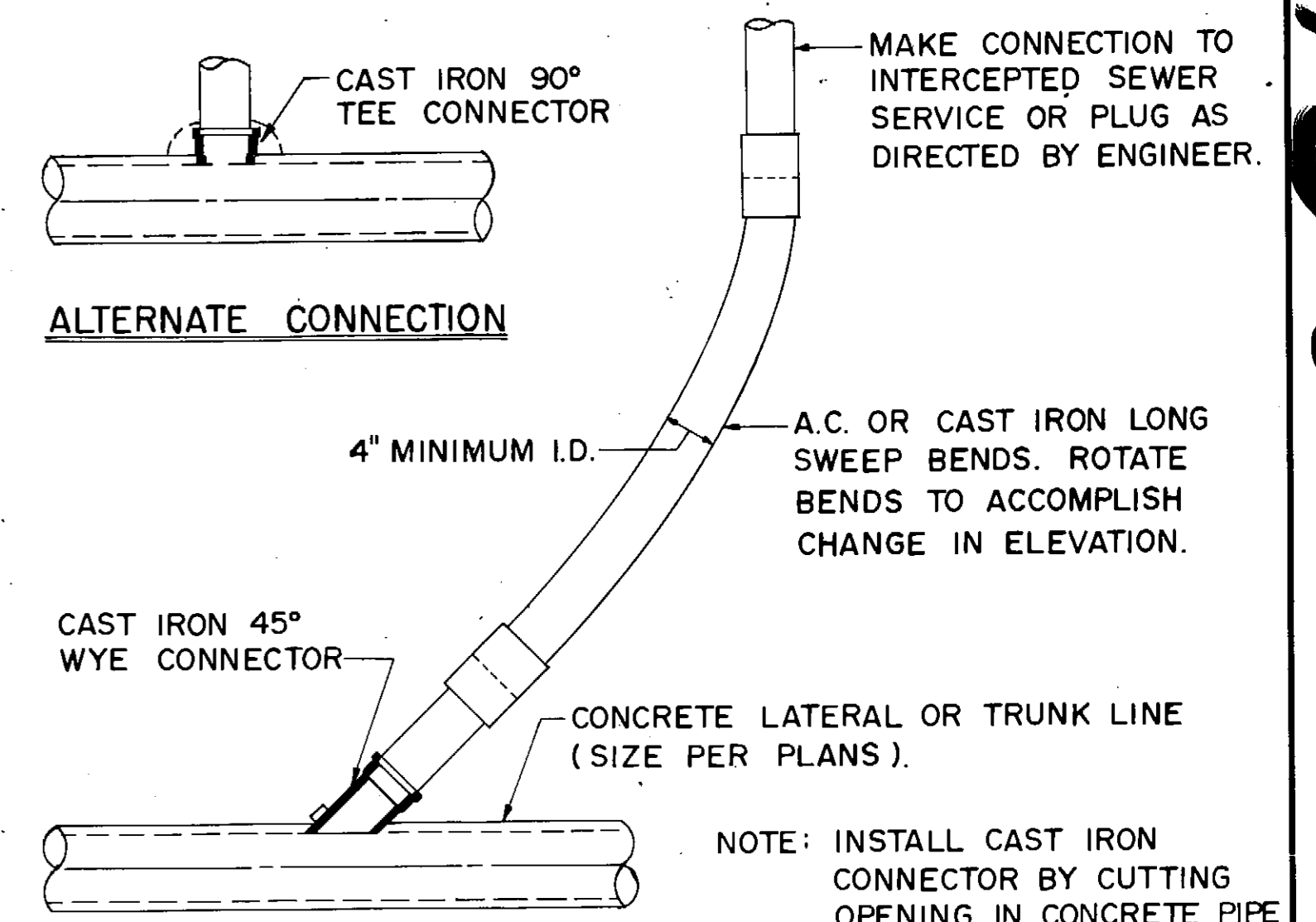
4180



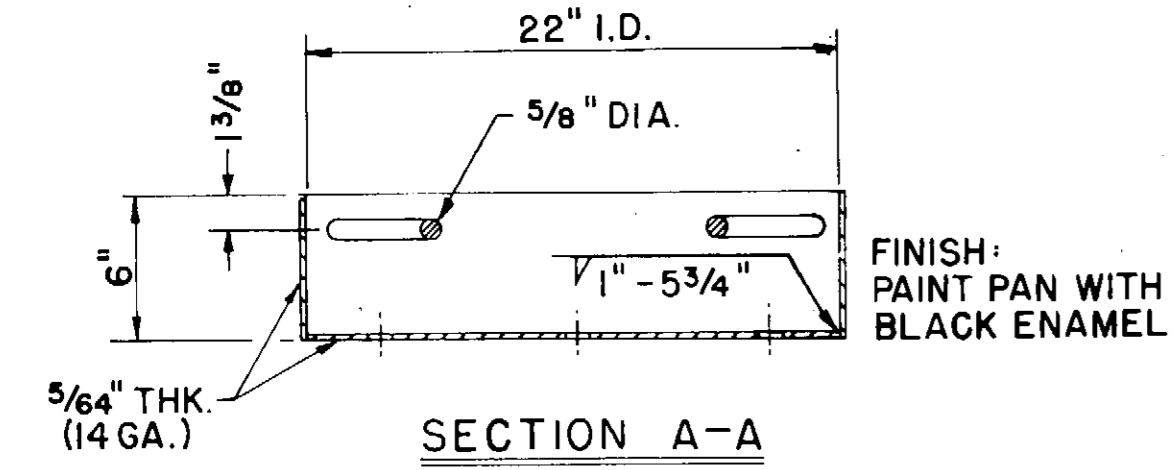
UTILIZATION OF TYPE D MANHOLES AT ANGLE POINT



UTILIZATION OF TYPE C MANHOLE AT ANGLE POINT

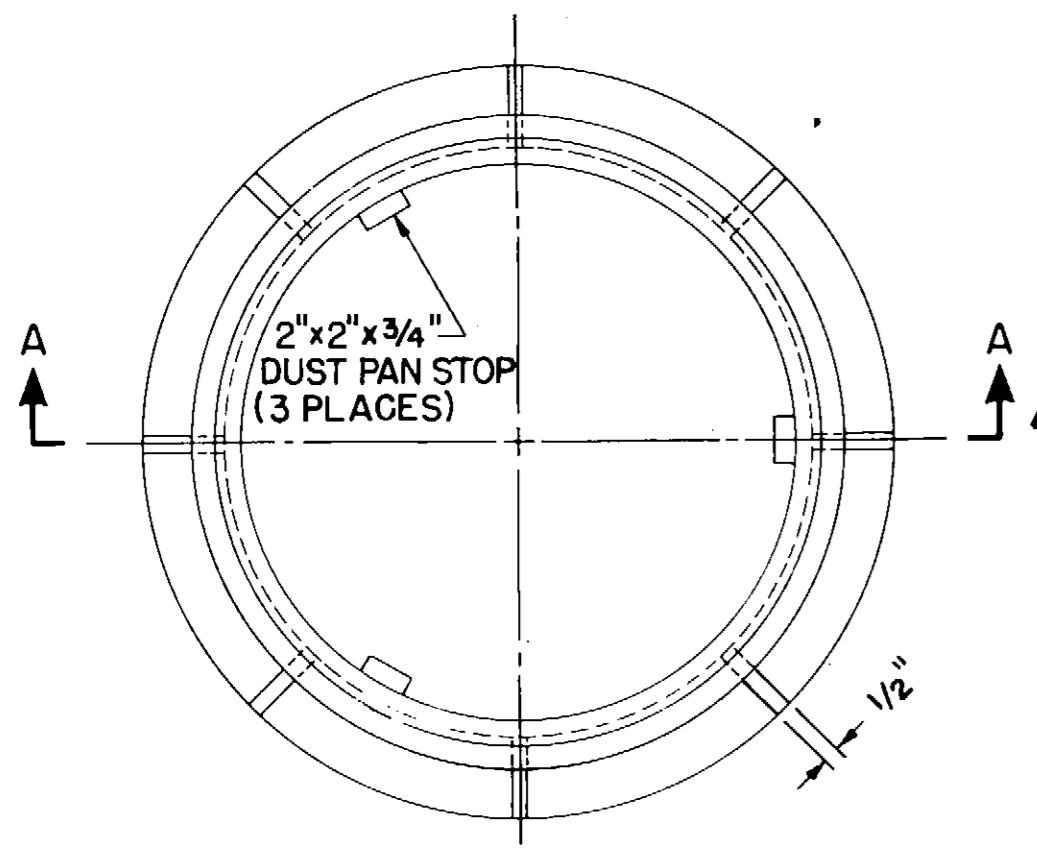


CONNECTION TO CONCRETE PIPE

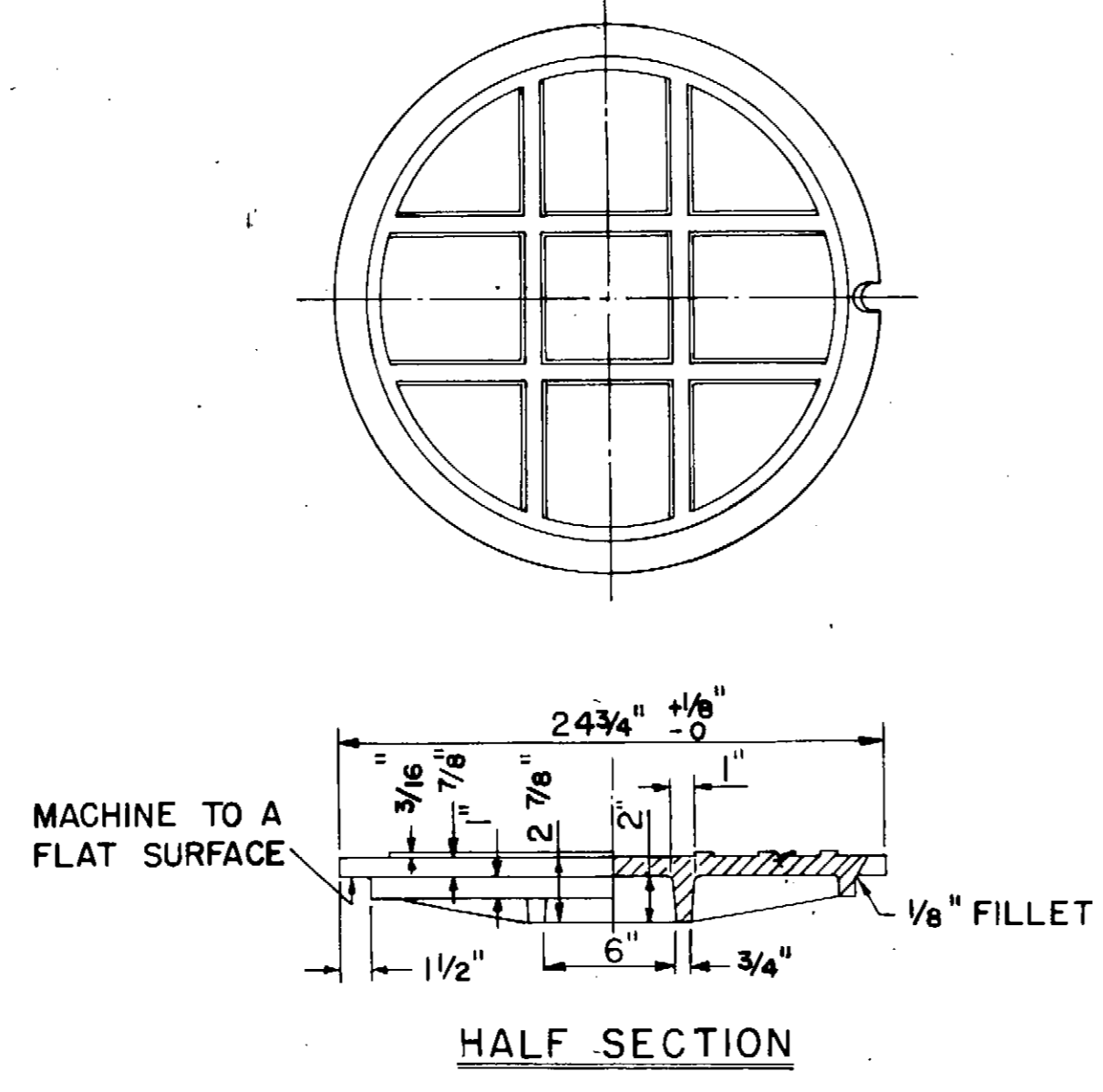


SECTION A-A

DUST PAN
SCALE: 1/2\"/>

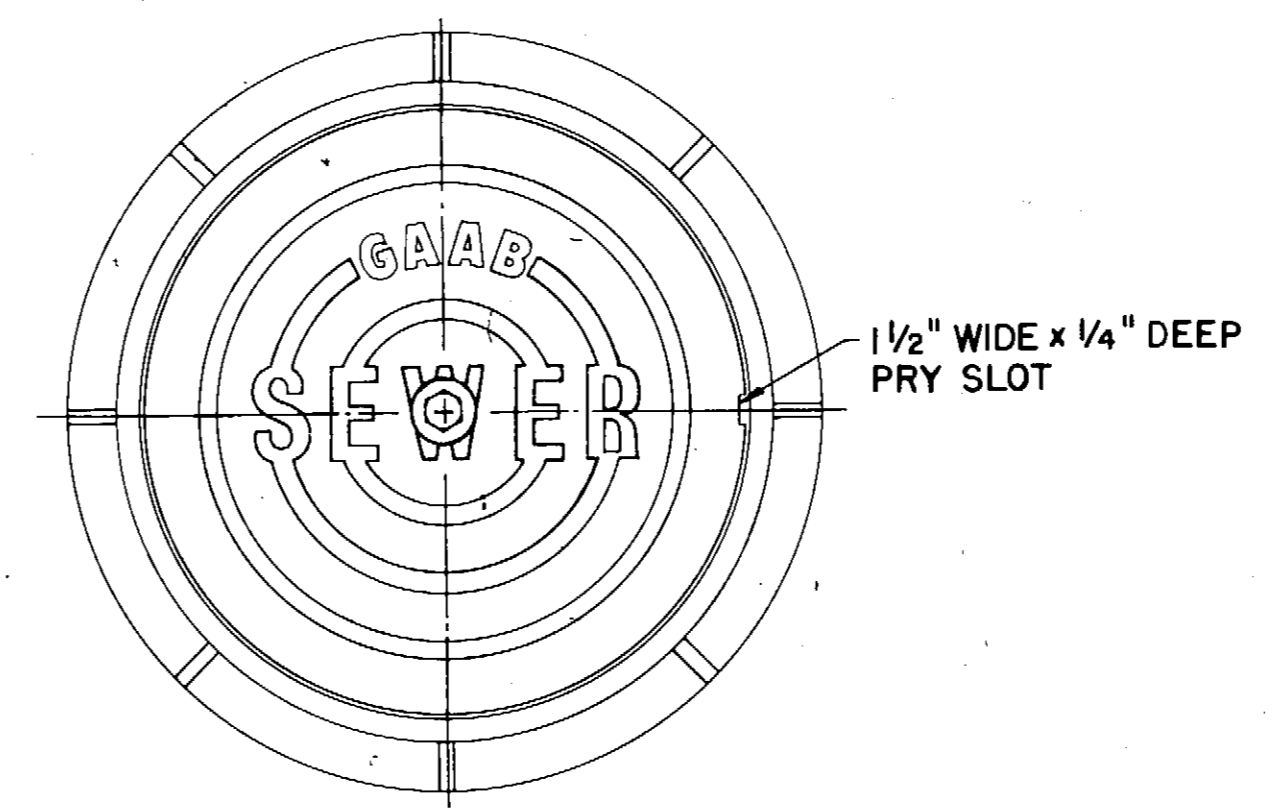


MANHOLE FRAME
SCALE: 1/2\"/>

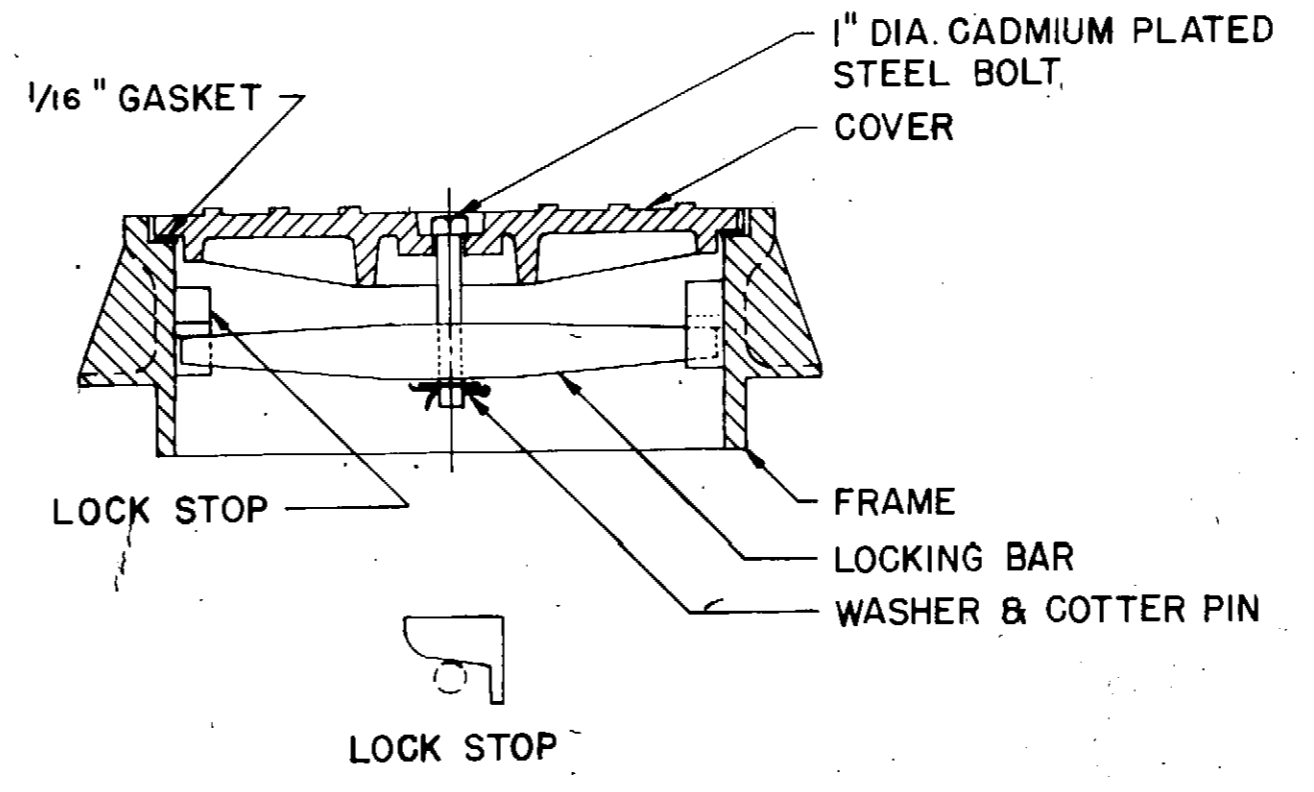


HALF SECTION

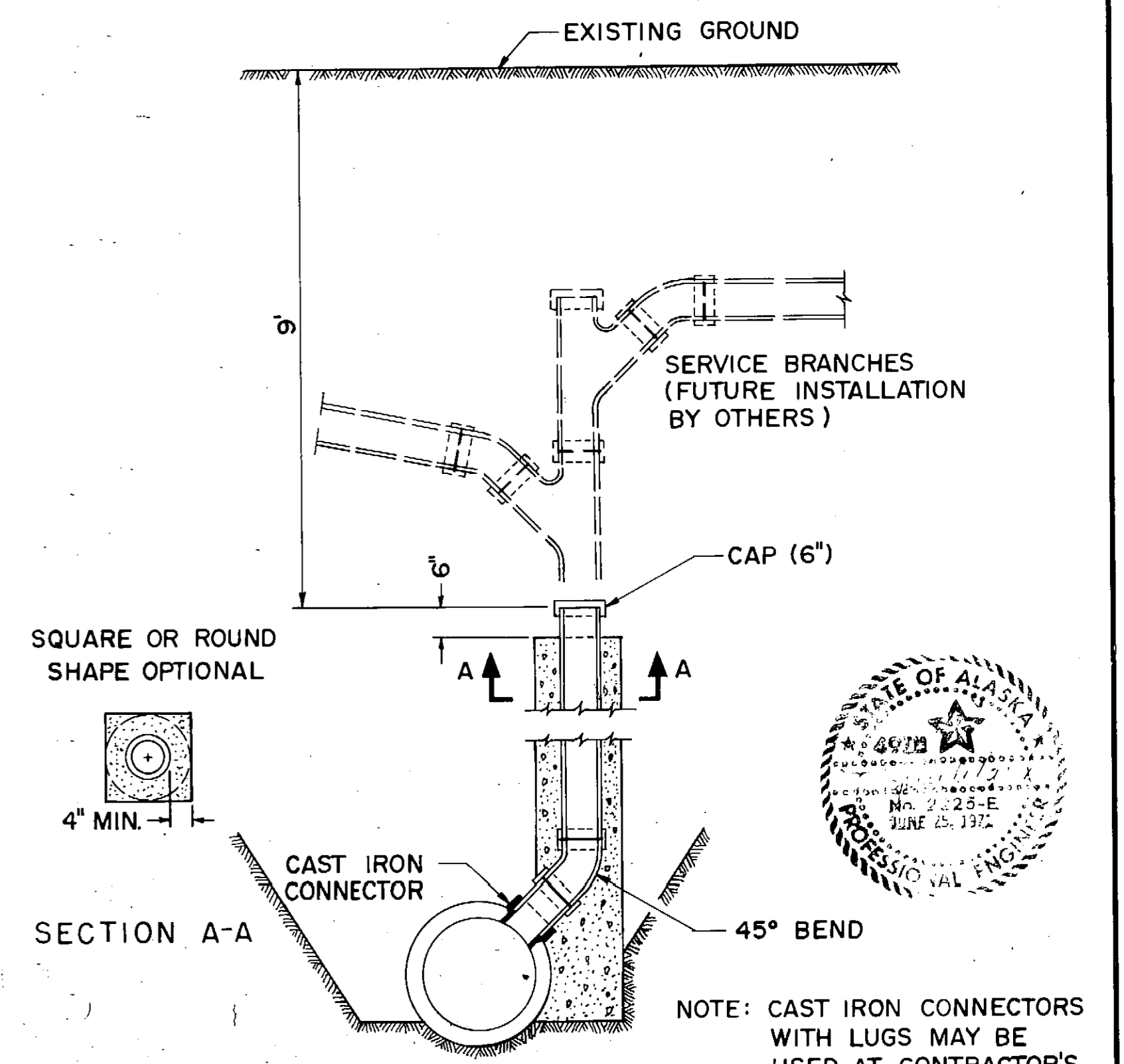
MANHOLE COVER
SCALE: 1/2\"/>



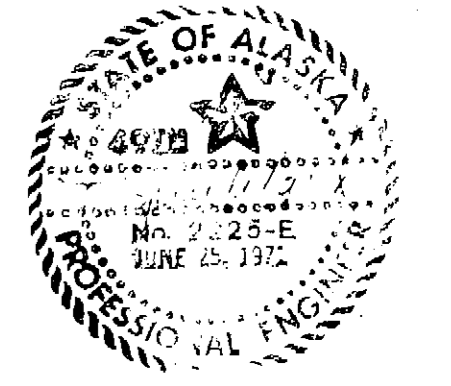
NOTE: WATERPROOF FRAME AND COVER SIMILAR TO THE OTHER MANHOLE FRAME AND COVER SHOWN ON THIS SHEET.



WATERPROOF FRAME AND COVER
SCALE: NONE



SERVICE RISER FOR DEEP SEWER
SCALE: NONE



DESIGNED: T.S.	APPROVED: <i>T.M.</i>
DRAWN: R.C.	SCALE: AS NOTED DATE: MAY 1971
CHECKED: T.S.	FILE: 2550

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

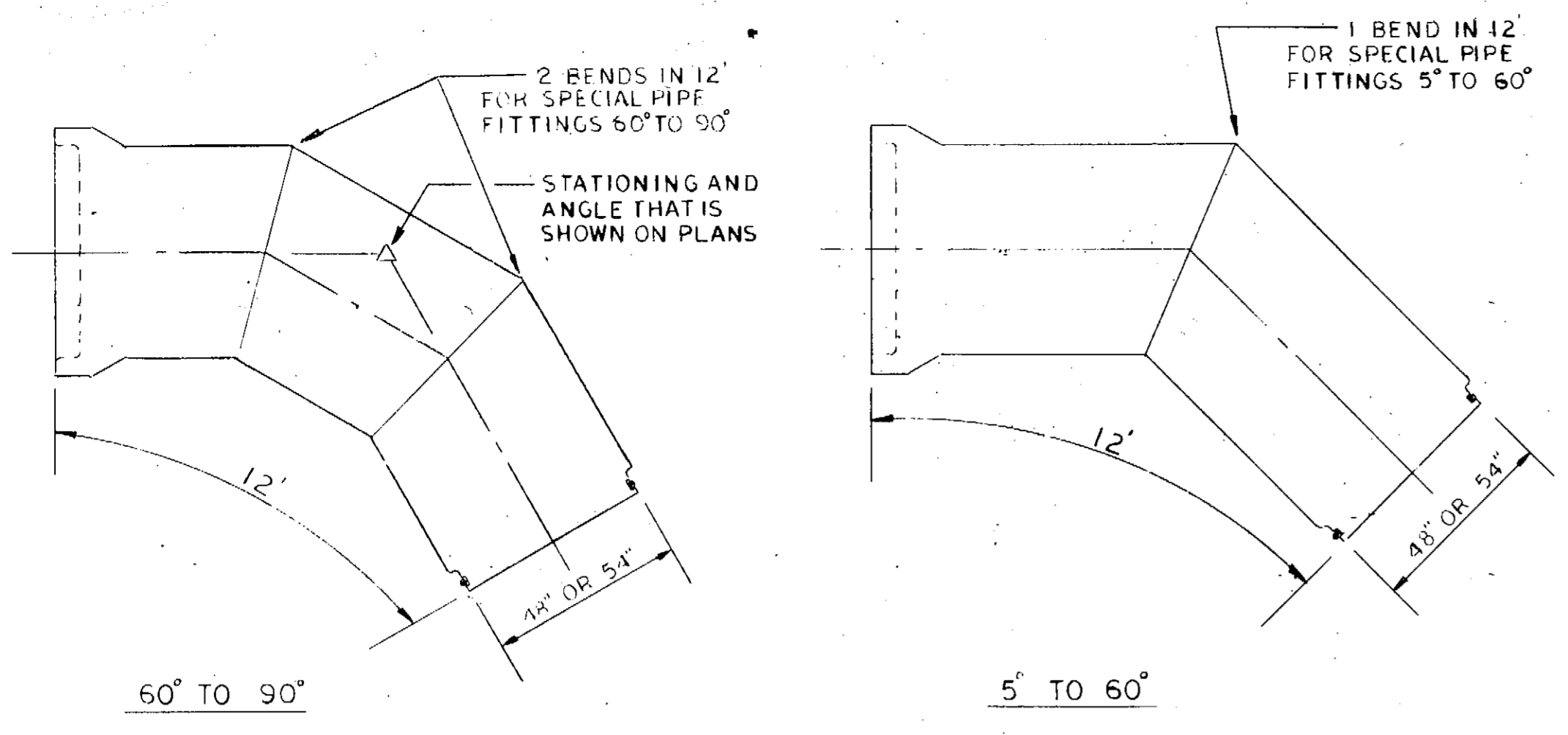


GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

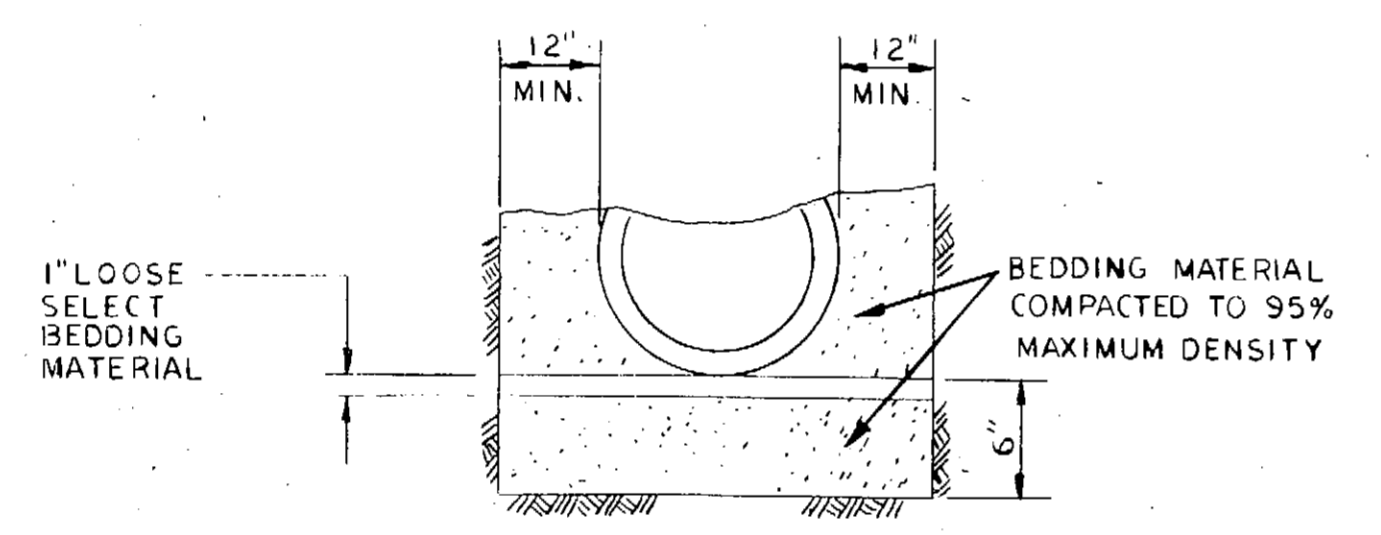
STANDARD DETAILS
TURNAGAIN INTERCEPTOR

SHEET
18 OF 19

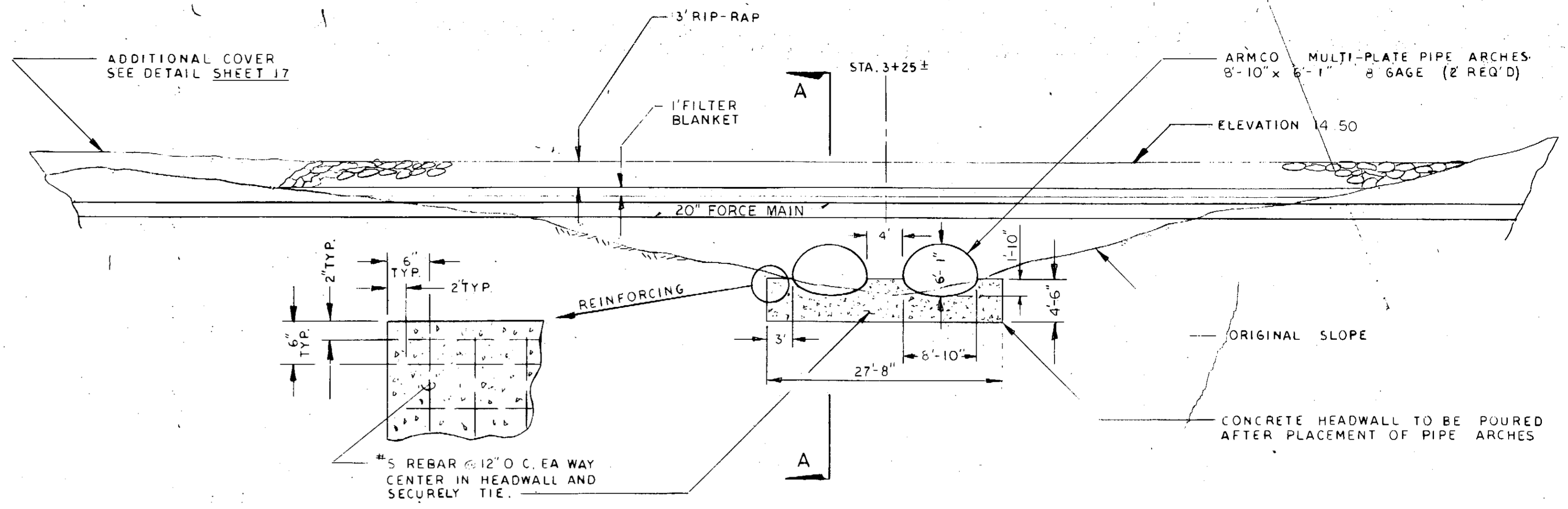
08/5



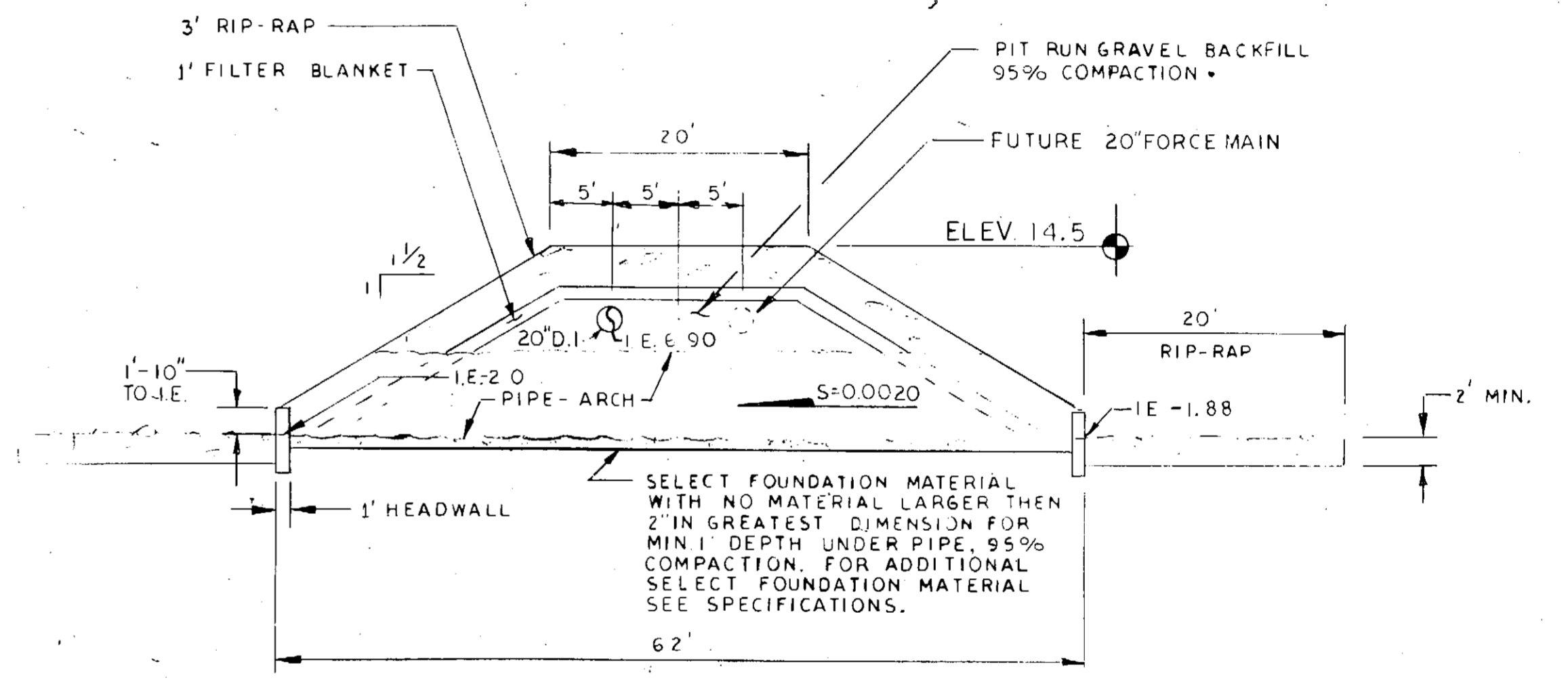
DETAIL
SPECIAL PIPE FITTING
NO SCALE



REINFORCED PLASTIC MORTAR PIPE &
CONCRETE CYLINDER PIPE ONLY
CLASS B BEDDING
NO SCALE



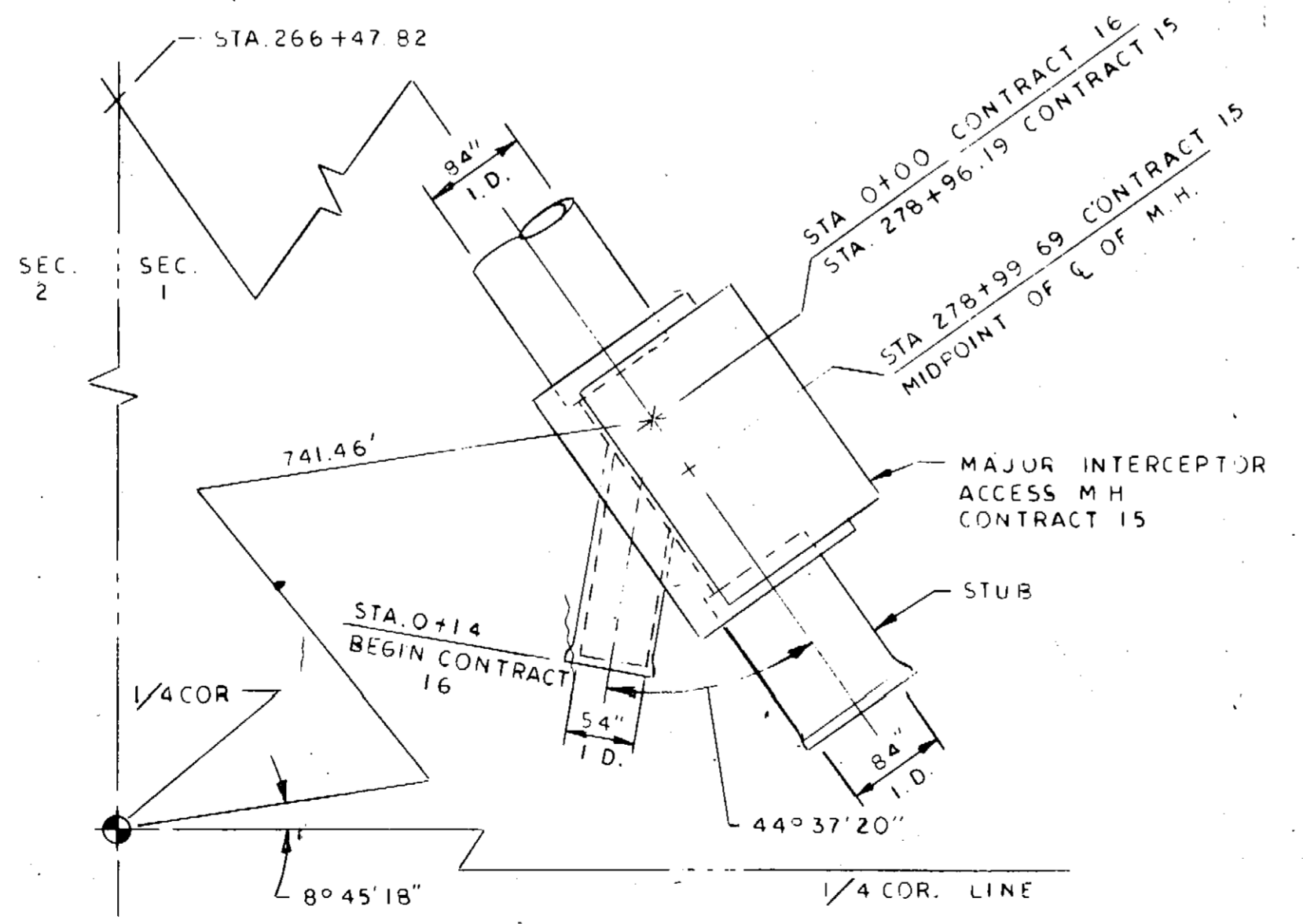
VIEW AT HEADWALL



SECTION A-A

- NOTES:
1. SKEW ANGLE BETWEEN SEWER LINE AND CULVERTS NOT SHOWN FOR SIMPLICITY.
 2. BACKFILL TO BE COMPACTED TO 95% MAX. DENSITY.
 3. DATUM = MEAN SEA LEVEL (POST EARTHQUAKE) BY U.S.C. & G.S., 1966.

CAMPBELL CREEK CROSSING DETAIL
SCALE: 1" = 10'



INTERCEPTOR TIE LOCATION
STATION 0+00
SCALE: NONE

MUNICIPALITY OF ANCHORAGE SEWER UTILITY

4974

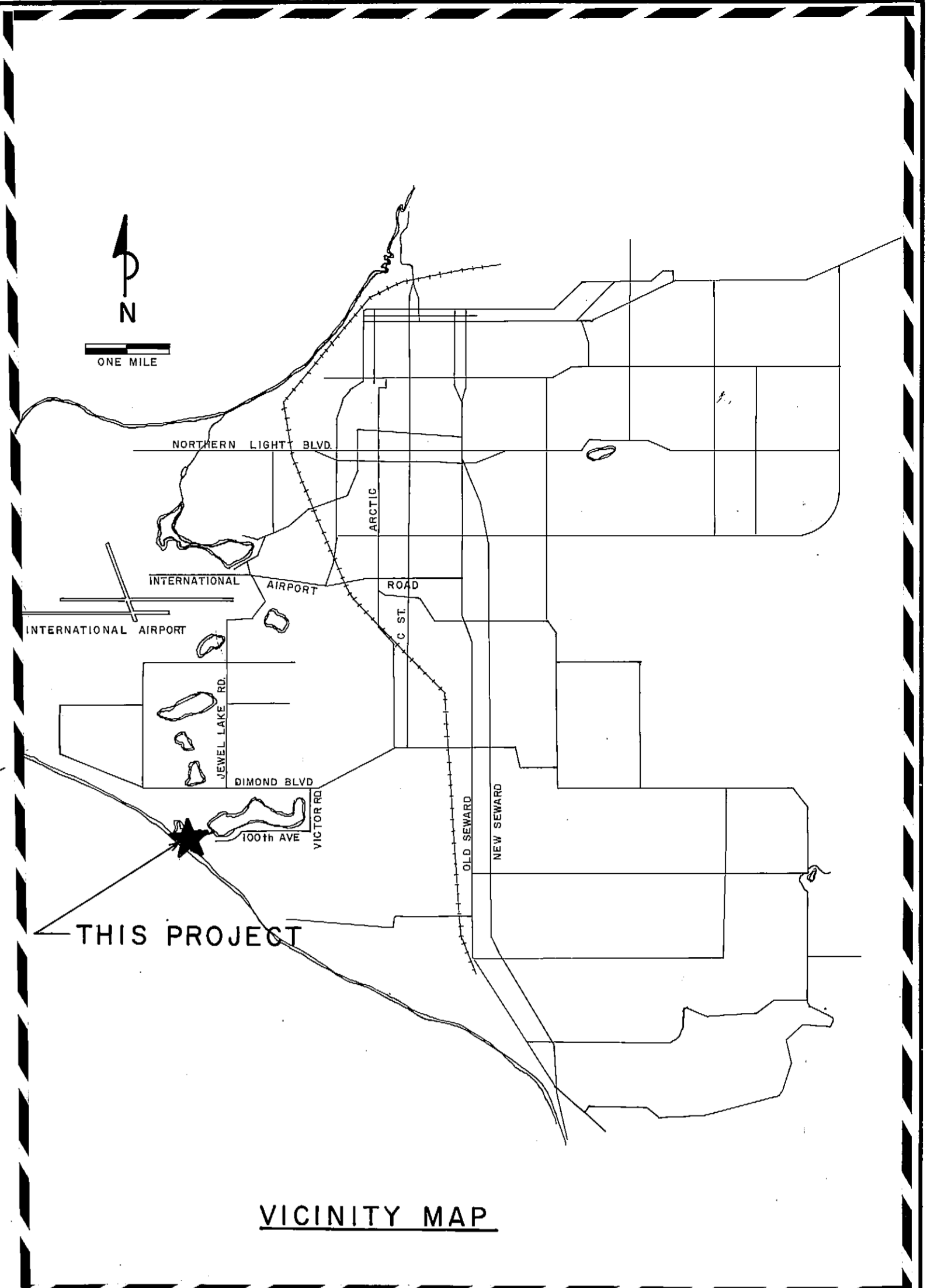
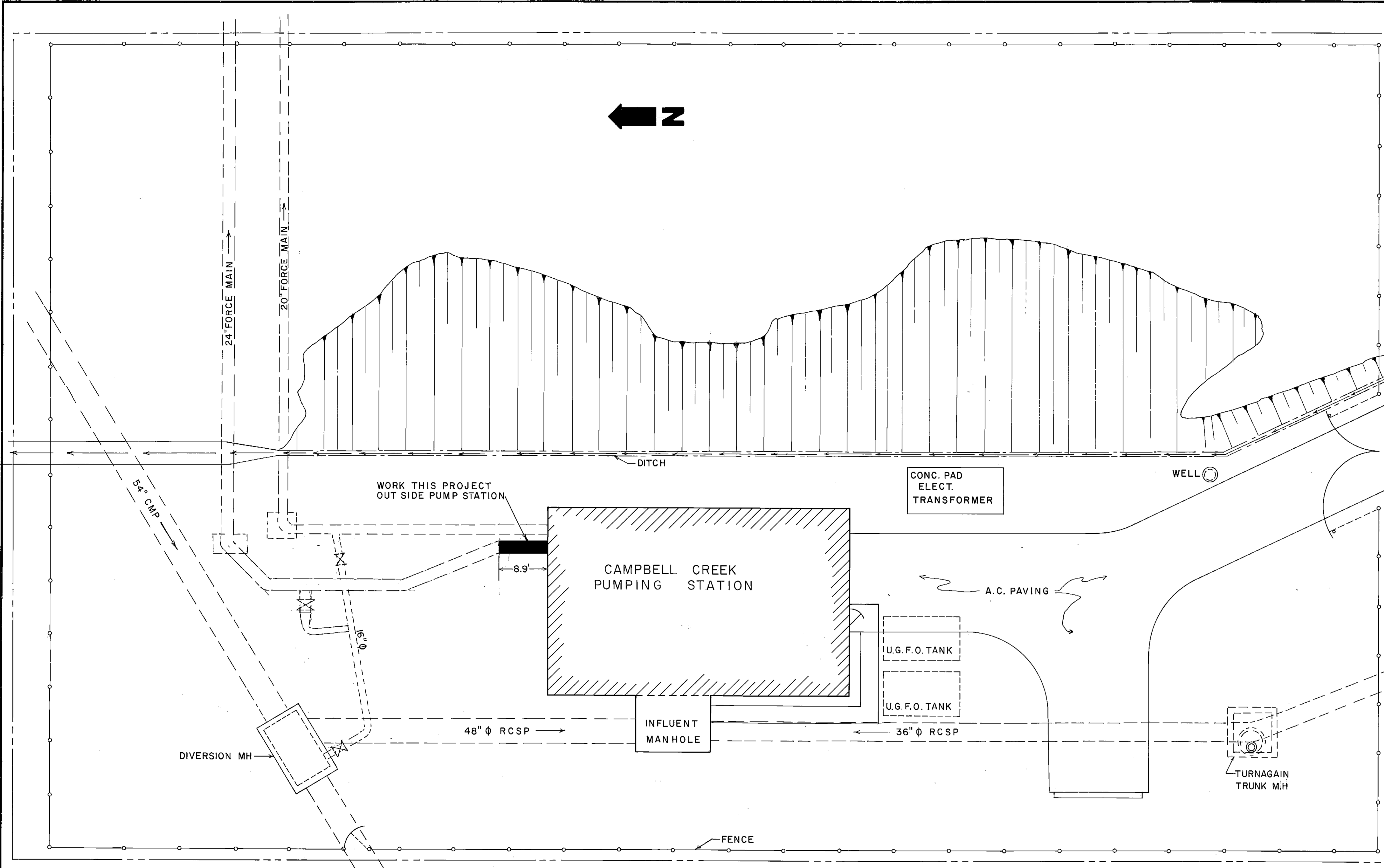
CAMPBELL CREEK PUMP STATION ADDITIONS



1979



PLAN SET No. 1465



KEY MAP
SCALE 1" = 10'

4975

PLAN SET NO. 1465

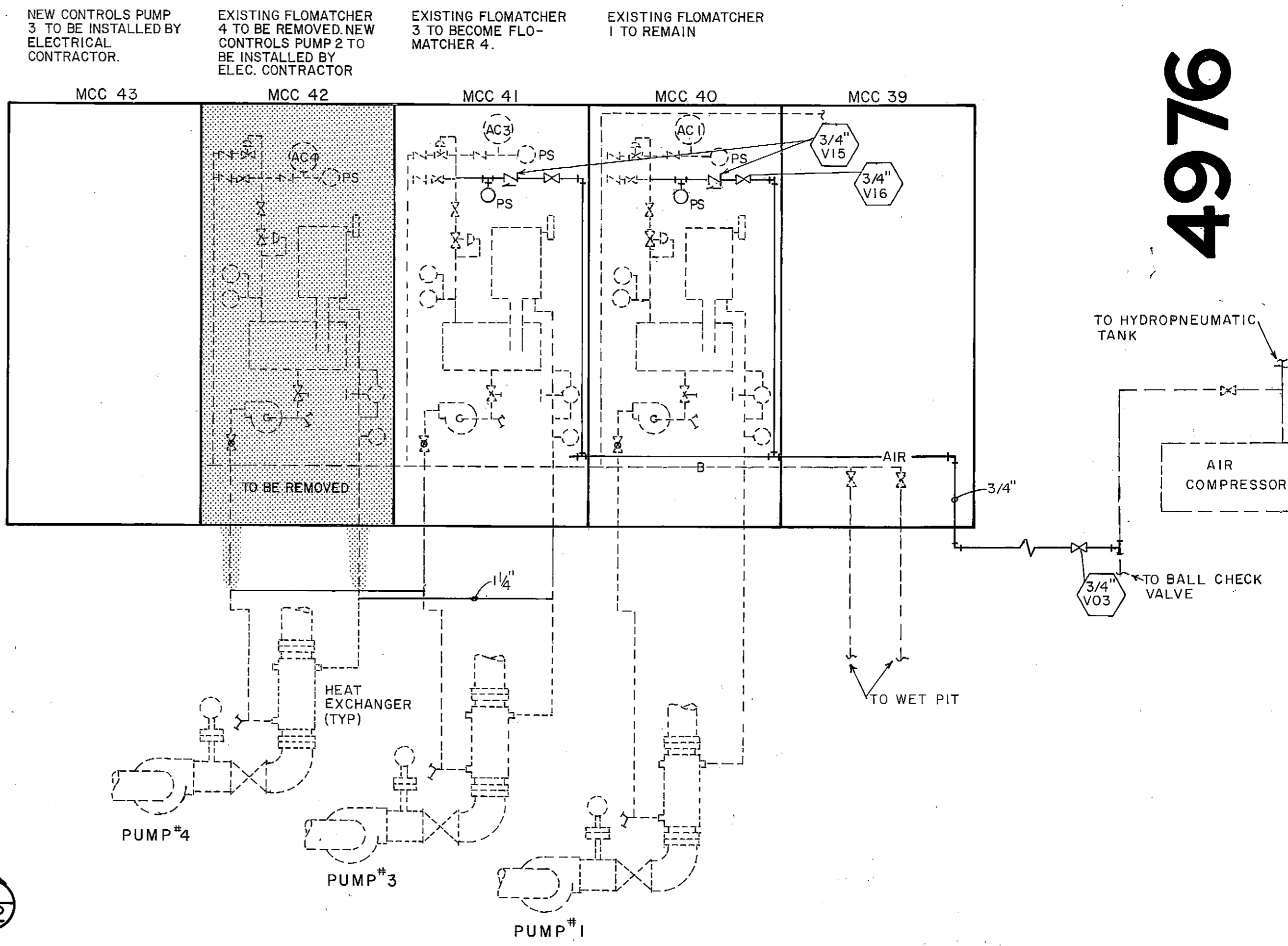
GRAPHIC SCALE										
FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.
DESIGN										
STAKING										
ASBUILT										
CONTRACTOR										
INSPECTOR										
CONSTRUCTION RECORD			REVISIONS			VERTICAL DATUM			VERTICAL DATUM	

ASU
ANCHORAGE SEWER UTILITY
CLEAN WATER. CLEAN AIR. CLEAN ENVIRONMENT.

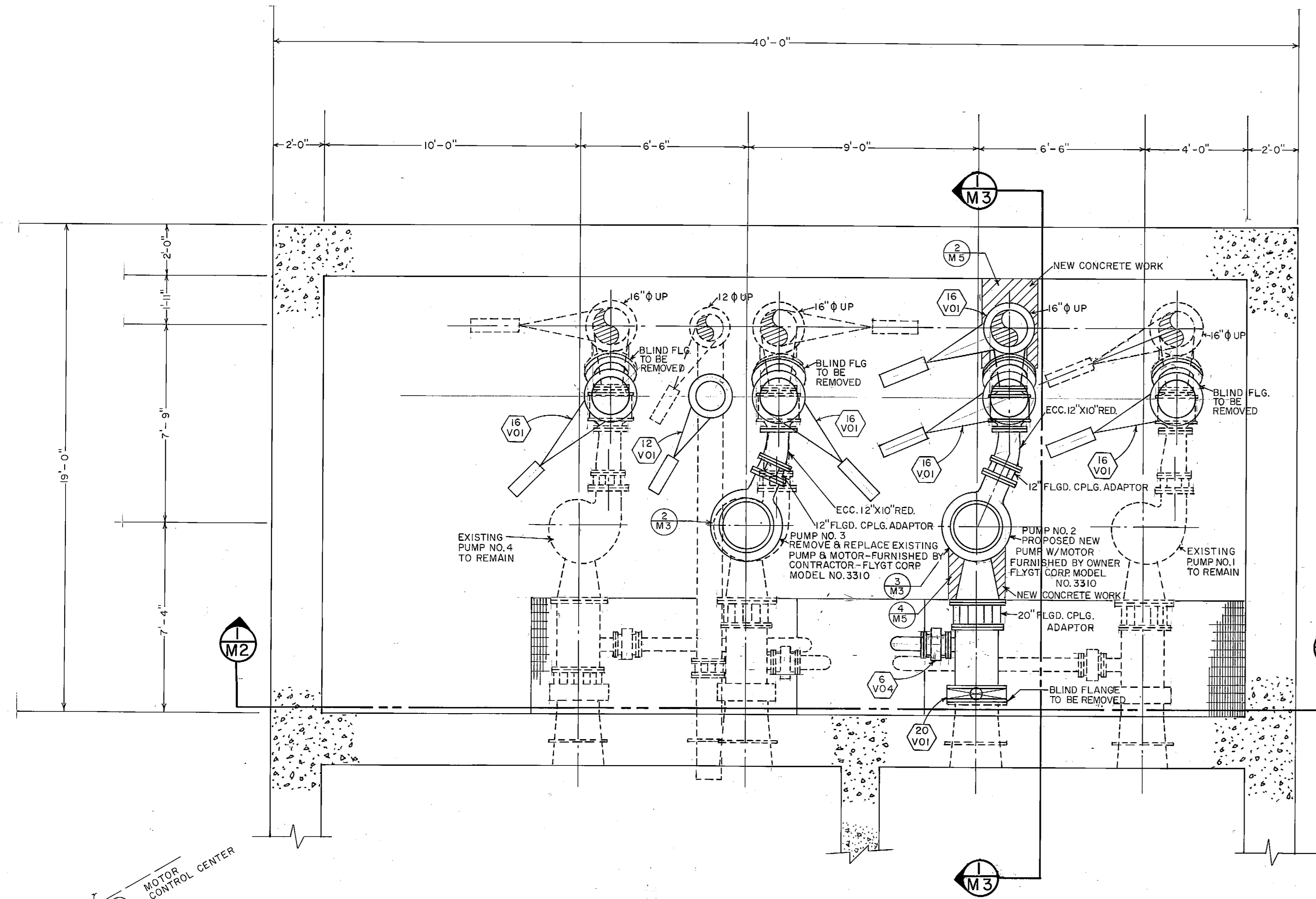
ANCHORAGE SEWER UTILITY
CAMPBELL CREEK PUMP STATION
VICINITY AND KEY MAP

SCALE: As Noted DATE 6-9-79 GRID SEWER GRID SHEET 51 of 51

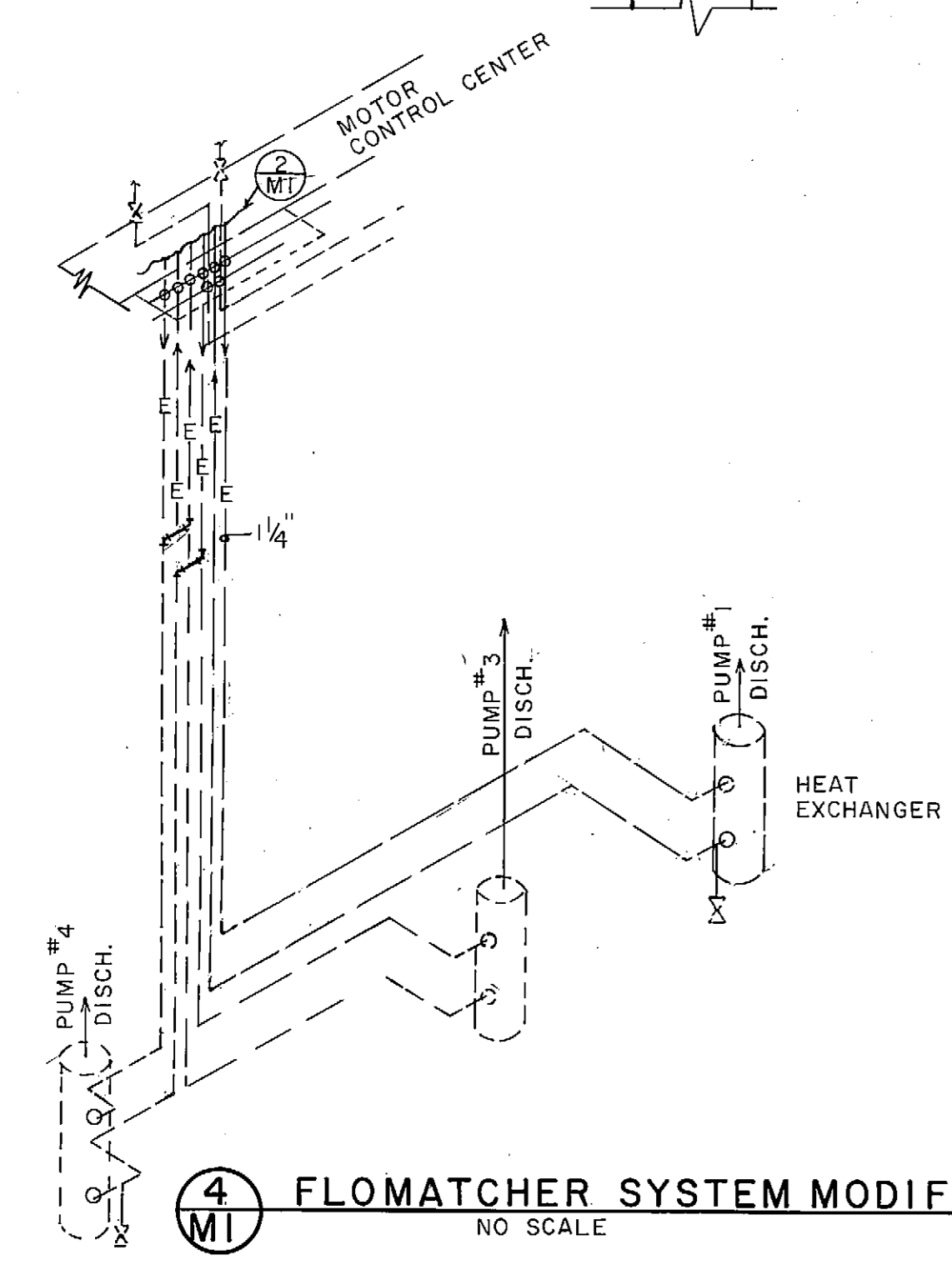
ACCT. NO.



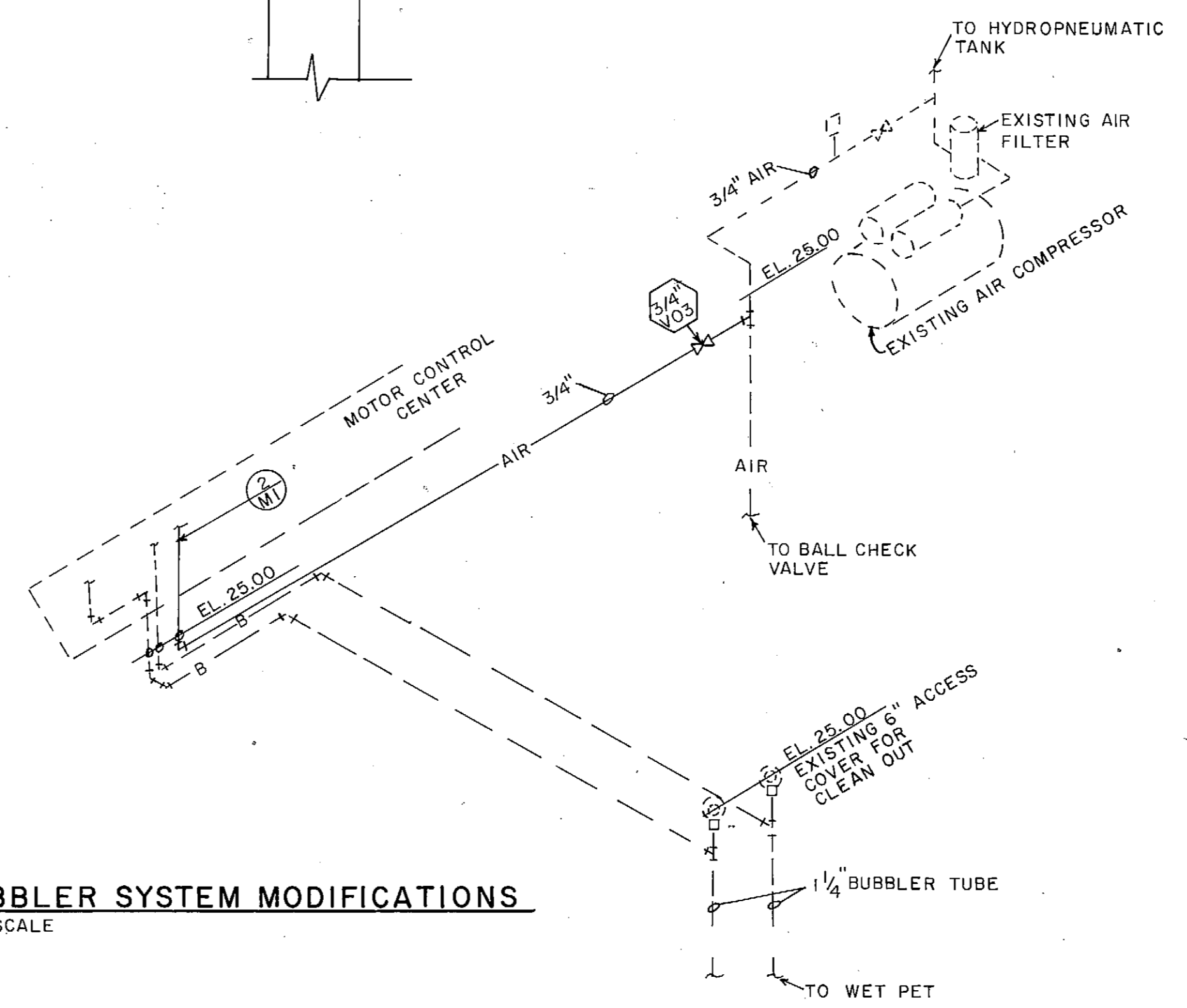
2 AIR BUBBLER & FLOMATCHER SYSTEM MODIFICATIONS
NO SCALE



1 PUMP ROOM PLAN
SCALE: 3/8" = 1'-0"



4 FLOMATCHER SYSTEM MODIFICATIONS
NO SCALE



3 AIR BUBBLER SYSTEM MODIFICATIONS
NO SCALE

LEGEND

- W PLANT WATER
- DW DOMESTIC WATER
- HW HOT WATER
- AIR COMPRESSED AIR
- B BUBBLER
- PS PRESSURE SWITCH
- WS SEAL WATER
- D DRAIN
- V VENT
- E ELETRYLYTE

VALVE SCHEDULE	
MARK	DESCRIPTION
V01	KNIFE GATE VALVE
V02	BALL STOP - CHECK VALVE
V03	BALL VALVE
V04	PLUG VALVE
V10	FOUR WAY VALVE
V14	NEEDLE VALVE
V15	PRESSURE REGULATING VALVE (PRV)
V16	ELECTRIC SOLENOID VALVE

CPR OCT 79 JGT

- 12 V01 VALVE SIZE IN INCHES
- 6 V01 VALVE MARK
- 6 01 GATE NUMBER (SEE SPECS)

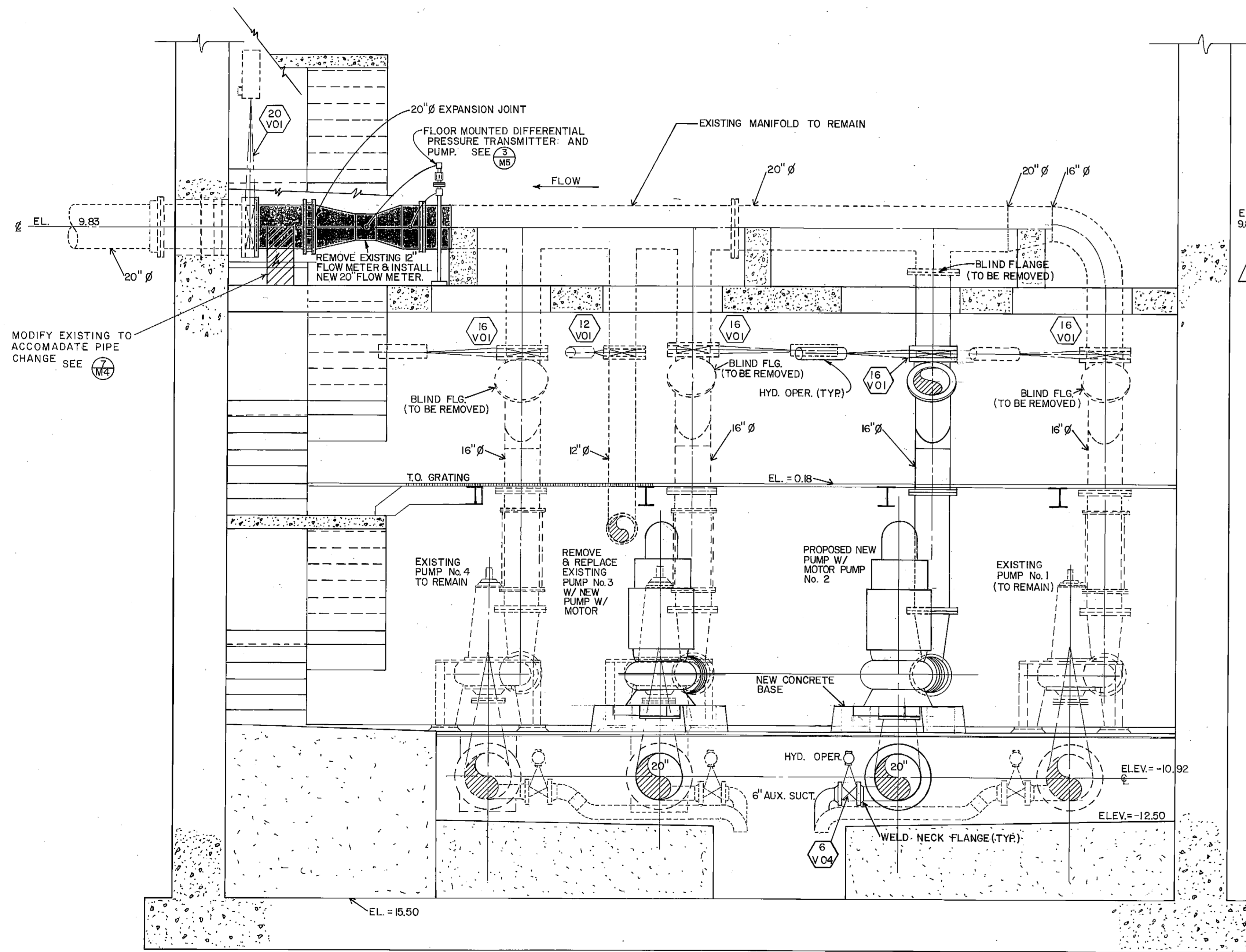
GRAPHIC SCALE										
FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.
DESIGN	1	6-27-79	REVISED NOTES FOR FLOMATCHER SYSTEM.	R.D.S.						
STAKING										
ASBUILT										
CONTRACTOR										
INSPECTOR										
CONSTRUCTION RECORD										
			REVISIONS			VERTICAL DATUM			VERTICAL DATUM	

Ellerbe
 Ellerbe Associates Inc
 3201 C St suite 400
 Anchorage AK 99503

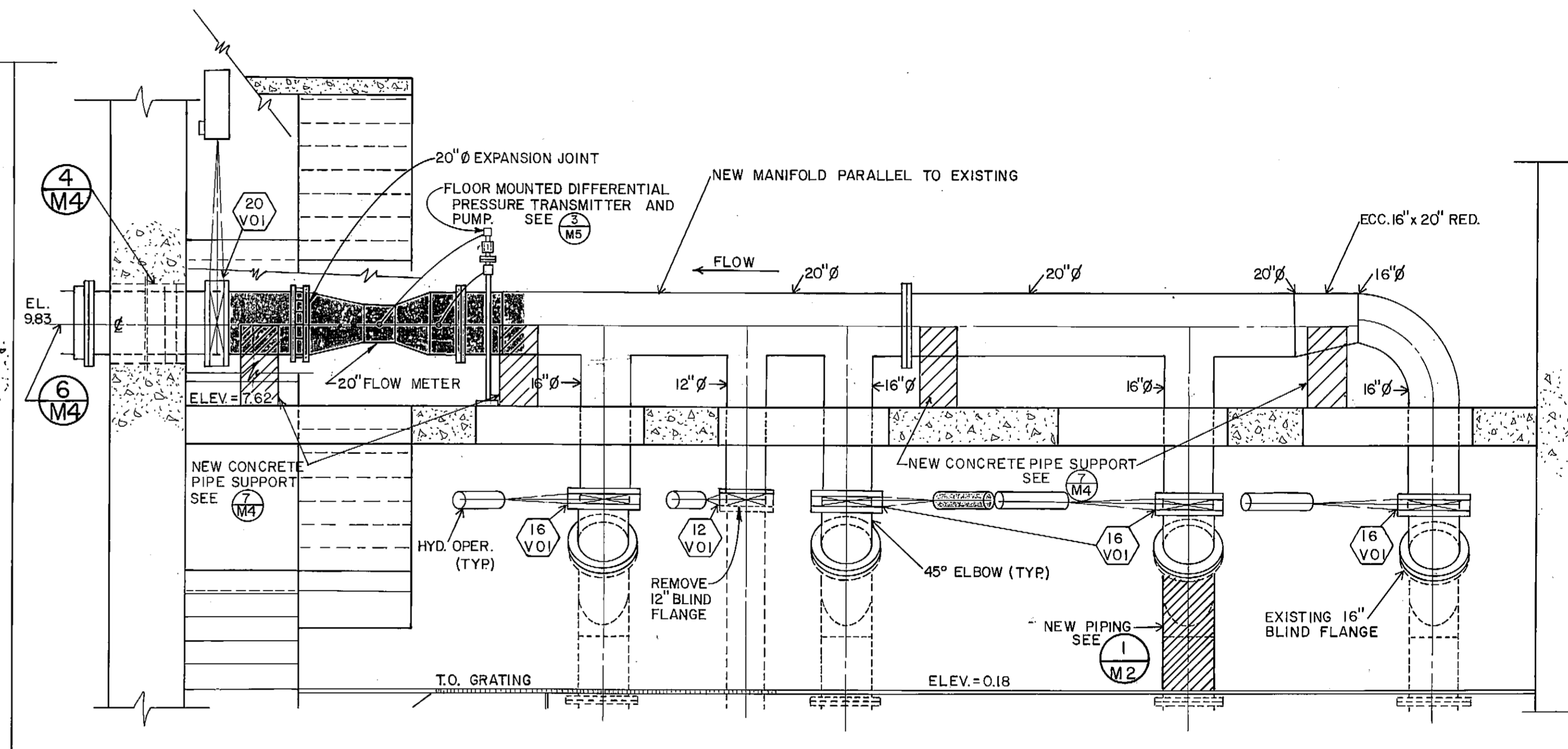
DATE 6-9-79
 ENGINEERS

ANCHORAGE SEWER UTILITY
 CAMPBELL CREEK PUMP STATION
 PUMP ROOM PLAN

SCALE: As Noted
 DATE 6-9-79
 GRID SEWER GRID
 SHEET 11 of 5
 ACCT. NO.



1 SECTION - NEW PUMPS AND EXISTING MANIFOLD
SCALE = 3/8" = 1'-0"

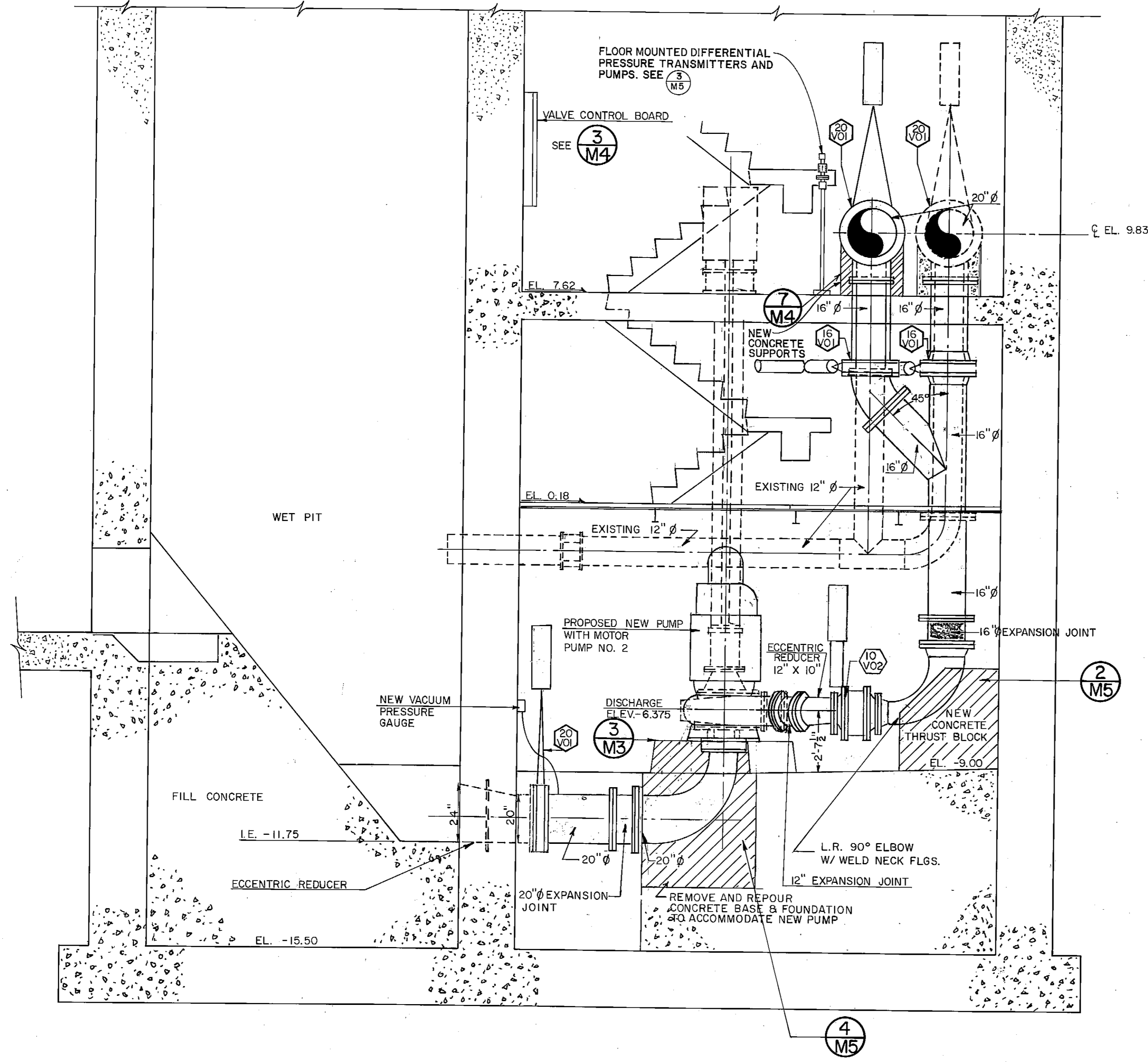


2 SECTION - NEW MANIFOLD SUPERIMPOSE EXISTING MANIFOLD
SCALE = 3/8" = 1'-0"

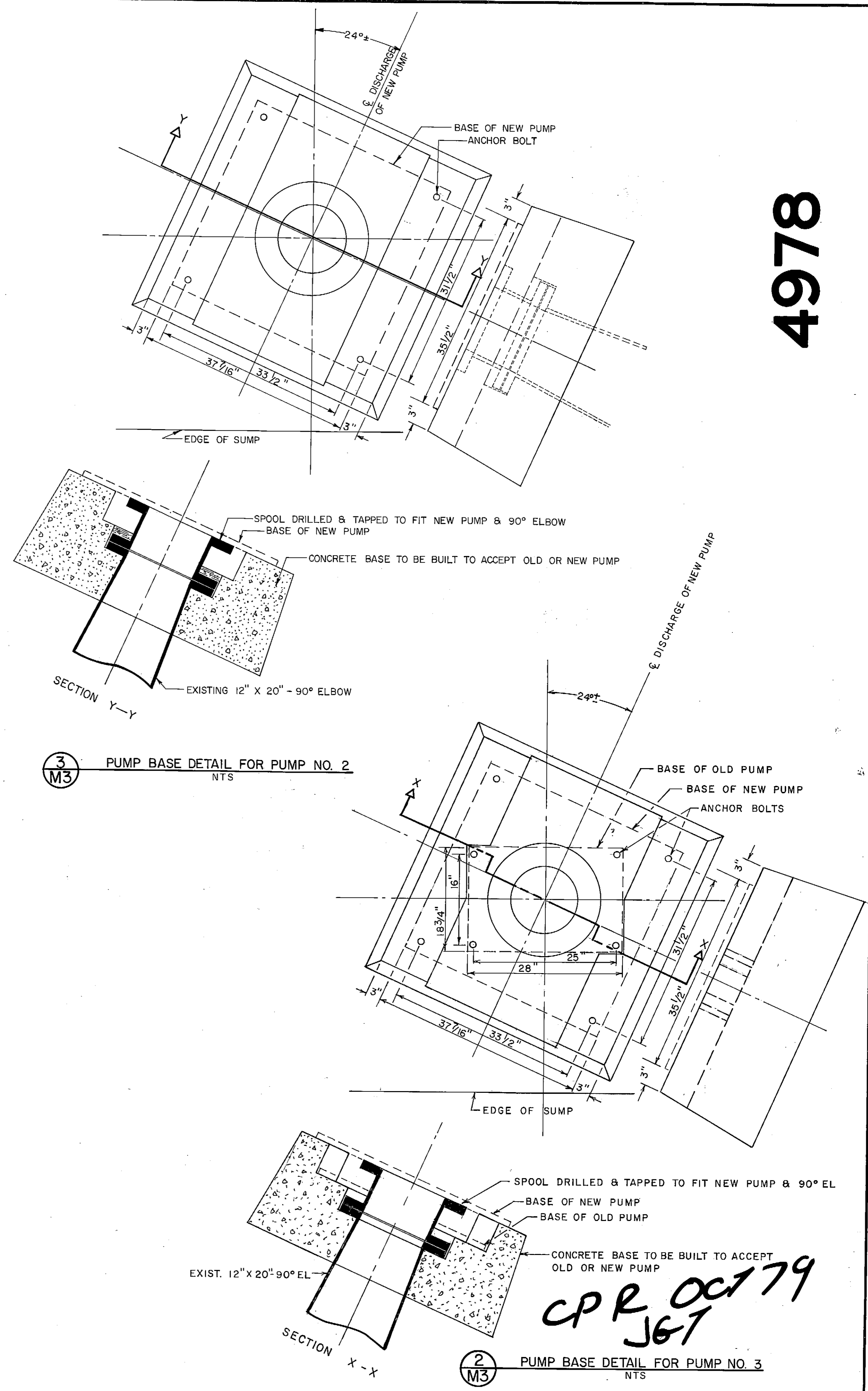
*CPR Oct 79
JBT*

GRAPHIC SCALE										Ellaerbe		ANCHORAGE SEWER UTILITY		
FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	OWN/CHKD BY	DATA	OWN/CHKD BY
DESIGN	1	6-27-79	CHANGED DIFFERENTIAL PRESSURE TRANSMITTER & PUMP FROM WALL TO FLOOR MOUNT	RDS							BASE	INC	TELE	
STAKING											TOPO		ELEC	
ASBUILT											PROFILE		DESIGN	
CONTRACTOR											SAN SEWER		QUANTITIES	
INSPECTOR											STORM SEWER		PRELIM. CHECK	
CONSTRUCTION RECORD											WATER		FINAL CHECK	
											GAS			

PLAN SET No. 1465



1 M3 NEW PUMP AND PIPING SECTION
SCALE 3/8" = 1'-0"



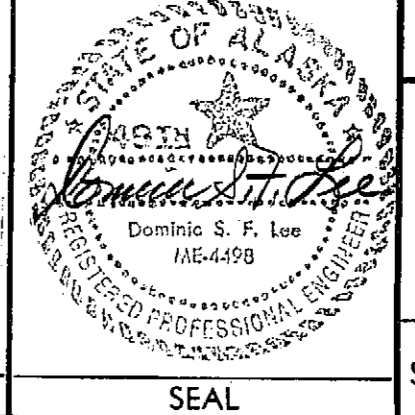
3 M3 PUMP BASE DETAIL FOR PUMP NO. 2
NTS

2 M3 PUMP BASE DETAIL FOR PUMP NO. 3
NTS

GRAPHIC SCALE

FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	OWNED BY	DATA	OWNED BY
DESIGN	1	6-27-79	CHANGED DIFFERENTIAL PRESSURE TRANSMITTERS AND PUMPS FROM WALL TO FLOOR MOUNTS.	RDS							BASE	TELE		
STAKING											TOPO	ELEC		
ASBUILT											PROFILE	DESIGN		
CONTRACTOR											SAN SEWER	QUANTITIES		
INSPECTOR											STORM SEWER	PRELIM. CHECK		
CONSTRUCTION RECORD											WATER	FINAL CHECK		
											GAS			

Ellerbe
Ellerbe Associates Inc
3201 C St suite 400
Anchorage AK 99503



ANCHORAGE SEWER UTILITY
CAMPBELL CREEK PUMP STATION
SECTIONS & DETAILS

SCALE HOR. 1"=50'
VER. 1"=5'

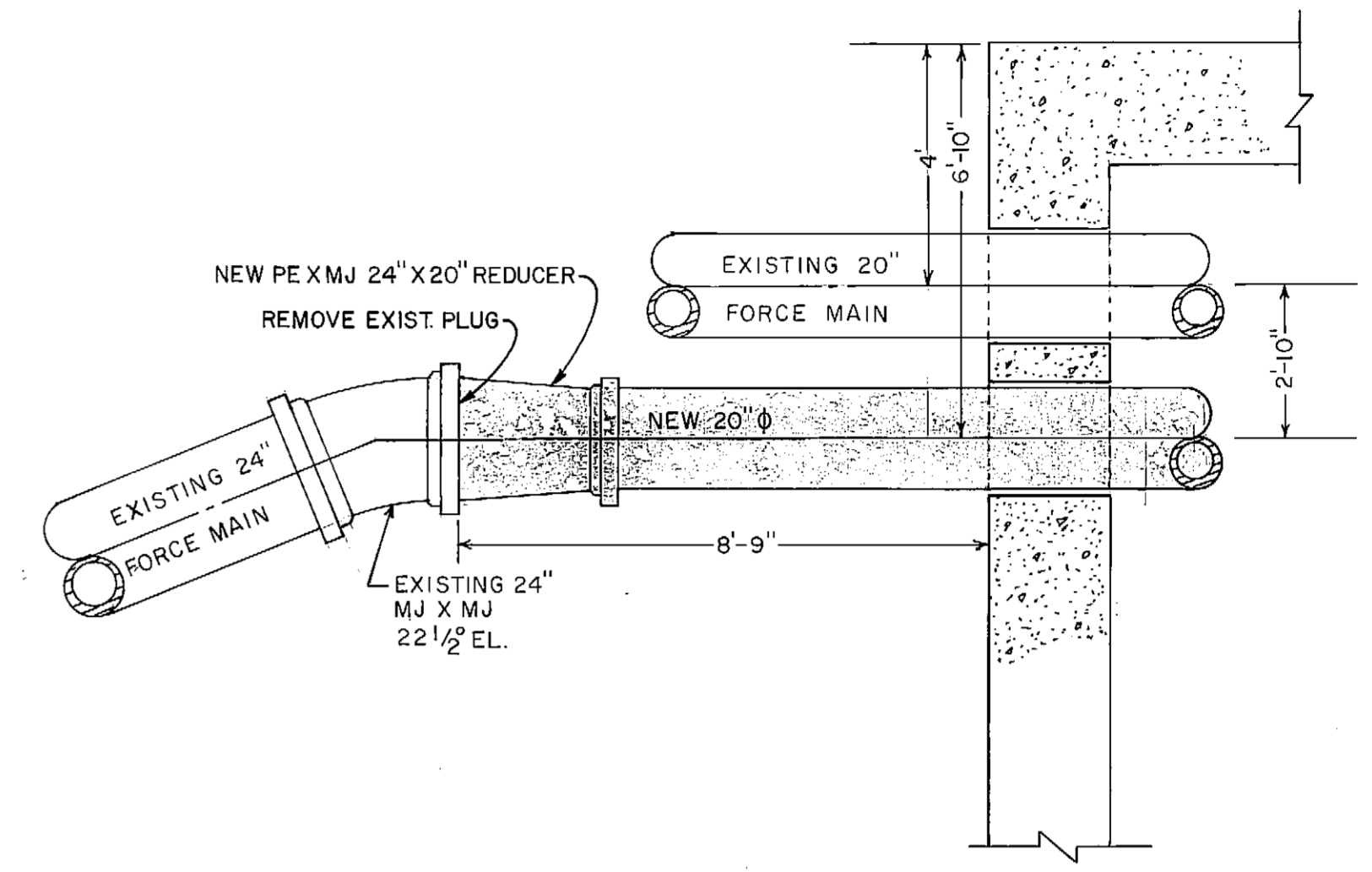
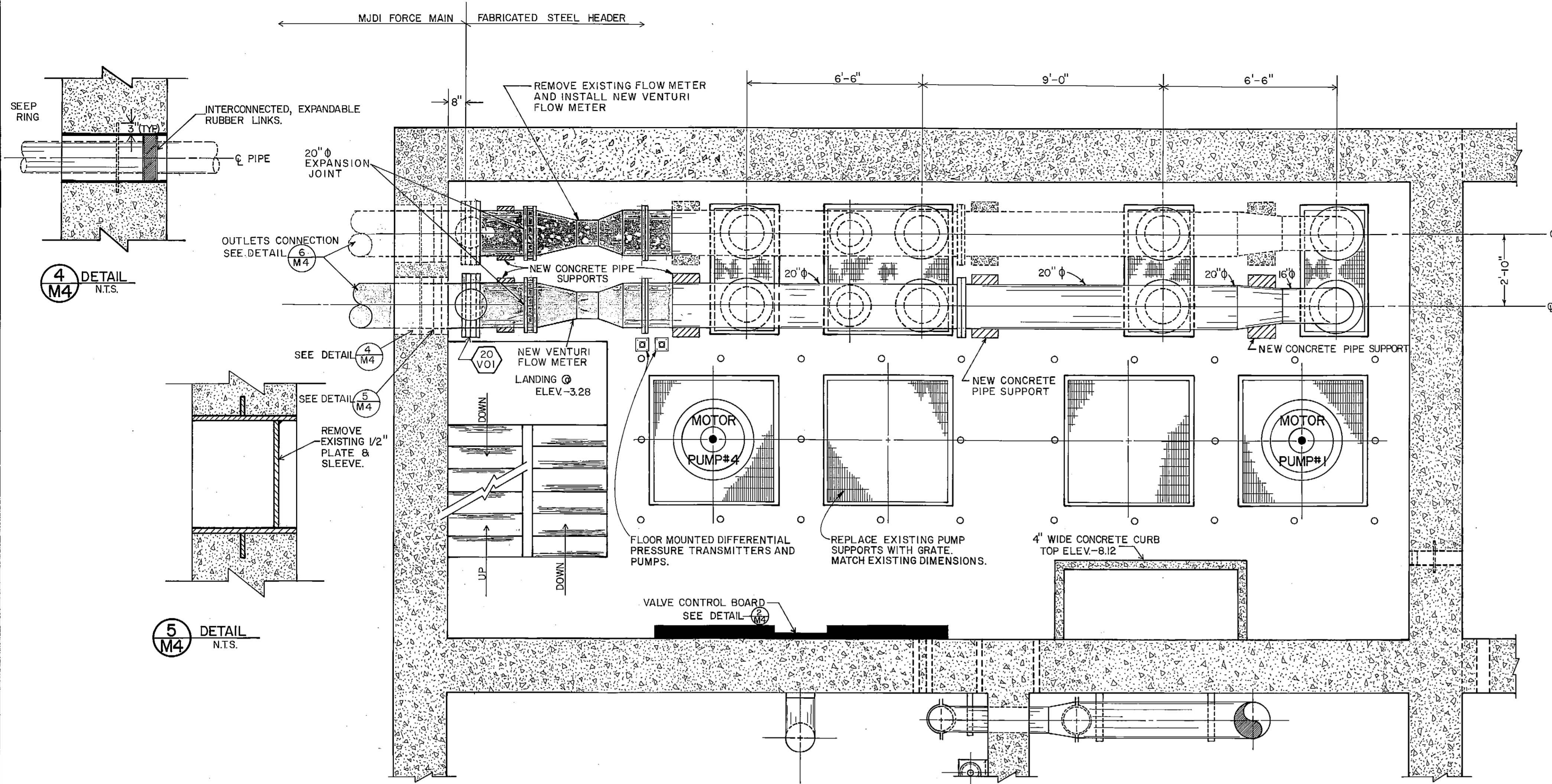
DATE 6-9-79

GRID SEWER GRID

SHEET M3 of 5

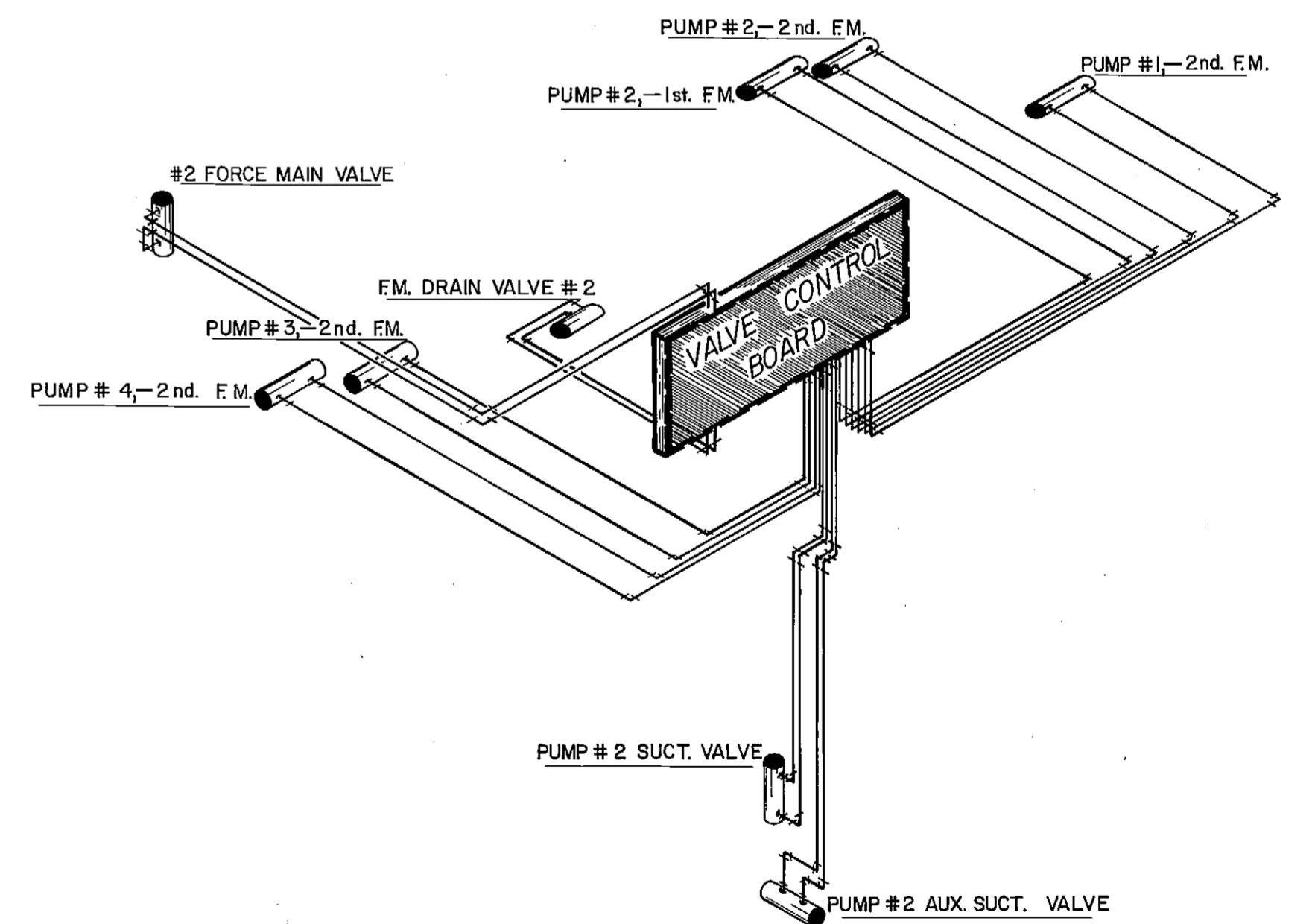
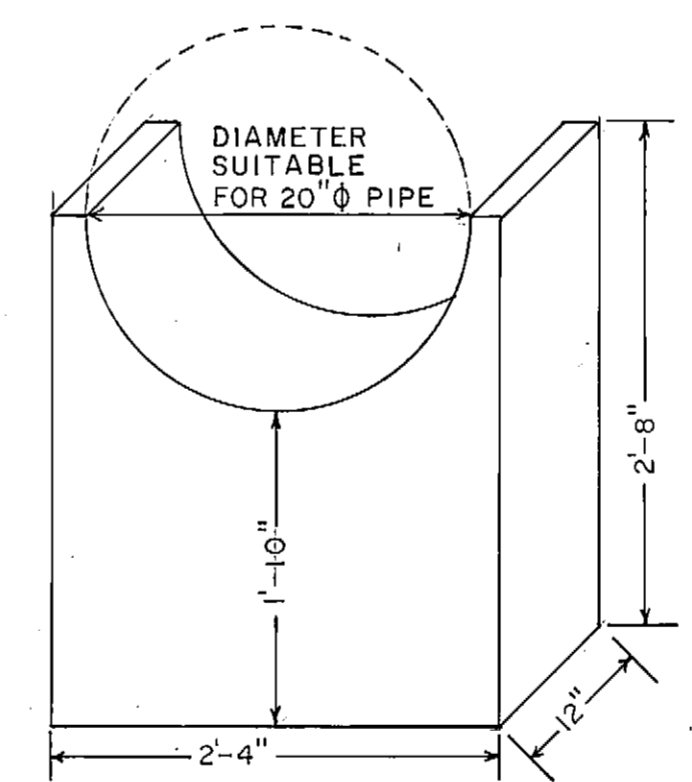
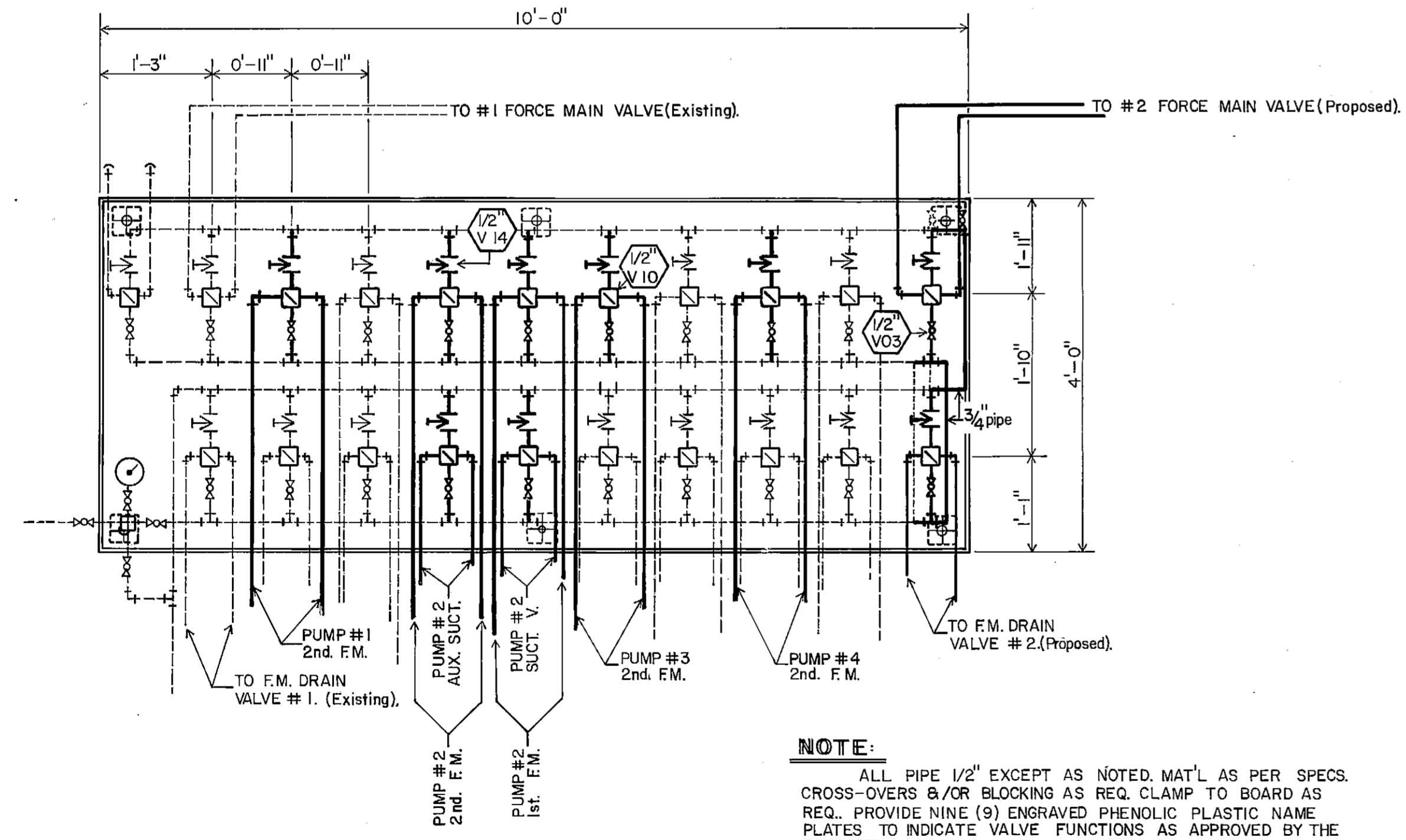
ACCT. NO.

CP R OCT 79
J67



1 MOTOR FLOOR PLAN-EL. 7.62
SCALE: 3/8" = 1'-0"

6 OUTLETS CONNECTION DETAIL
SCALE 3/8" = 1'-0"



2 VALVE CONTROL BOARD
N.T.S.

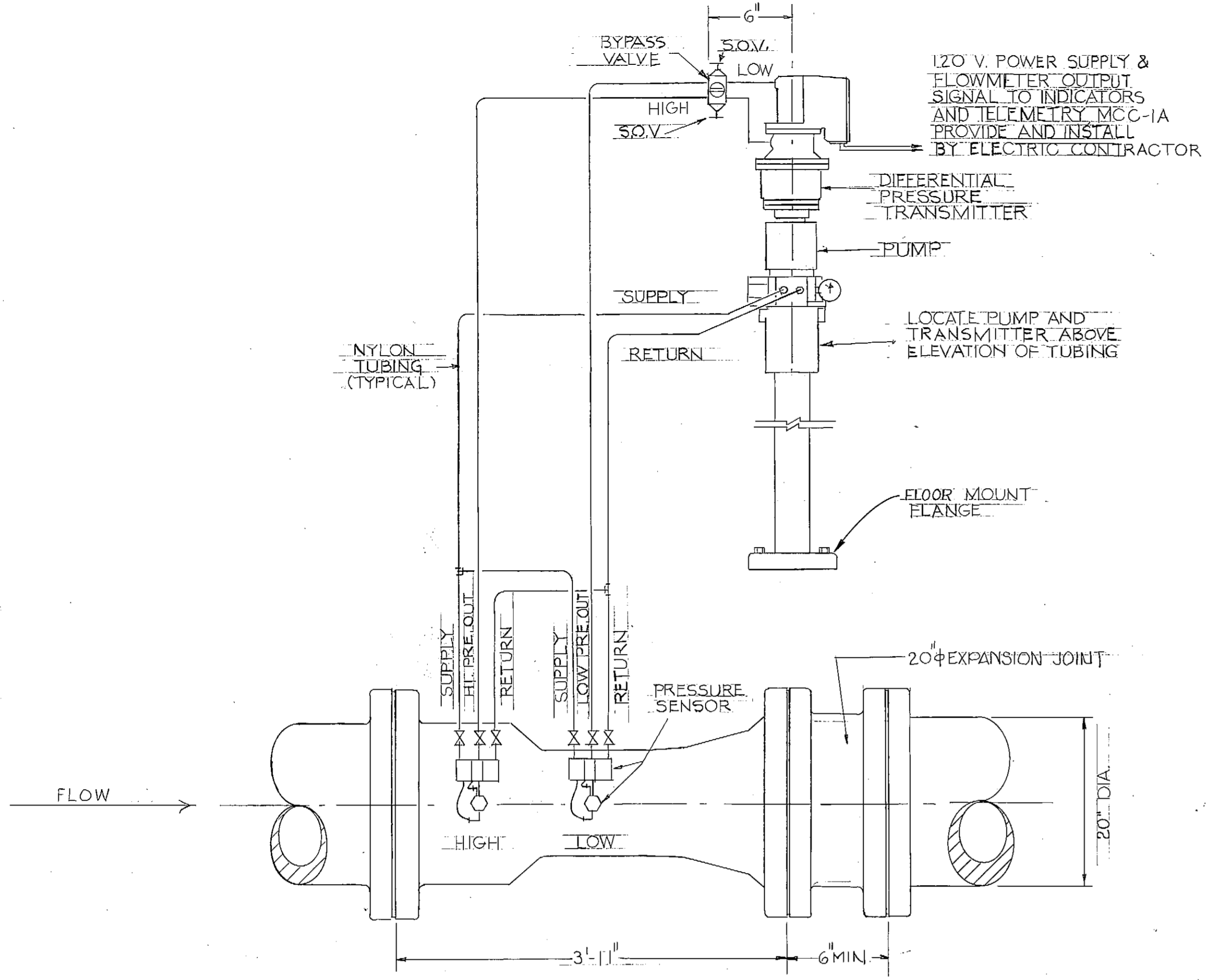
7 CONCRETE PIPE SUPPORT DETAIL
SCALE 1" = 1'-0"

3 HYDRAULIC OPERATOR SCHEMATIC
N.T.S.

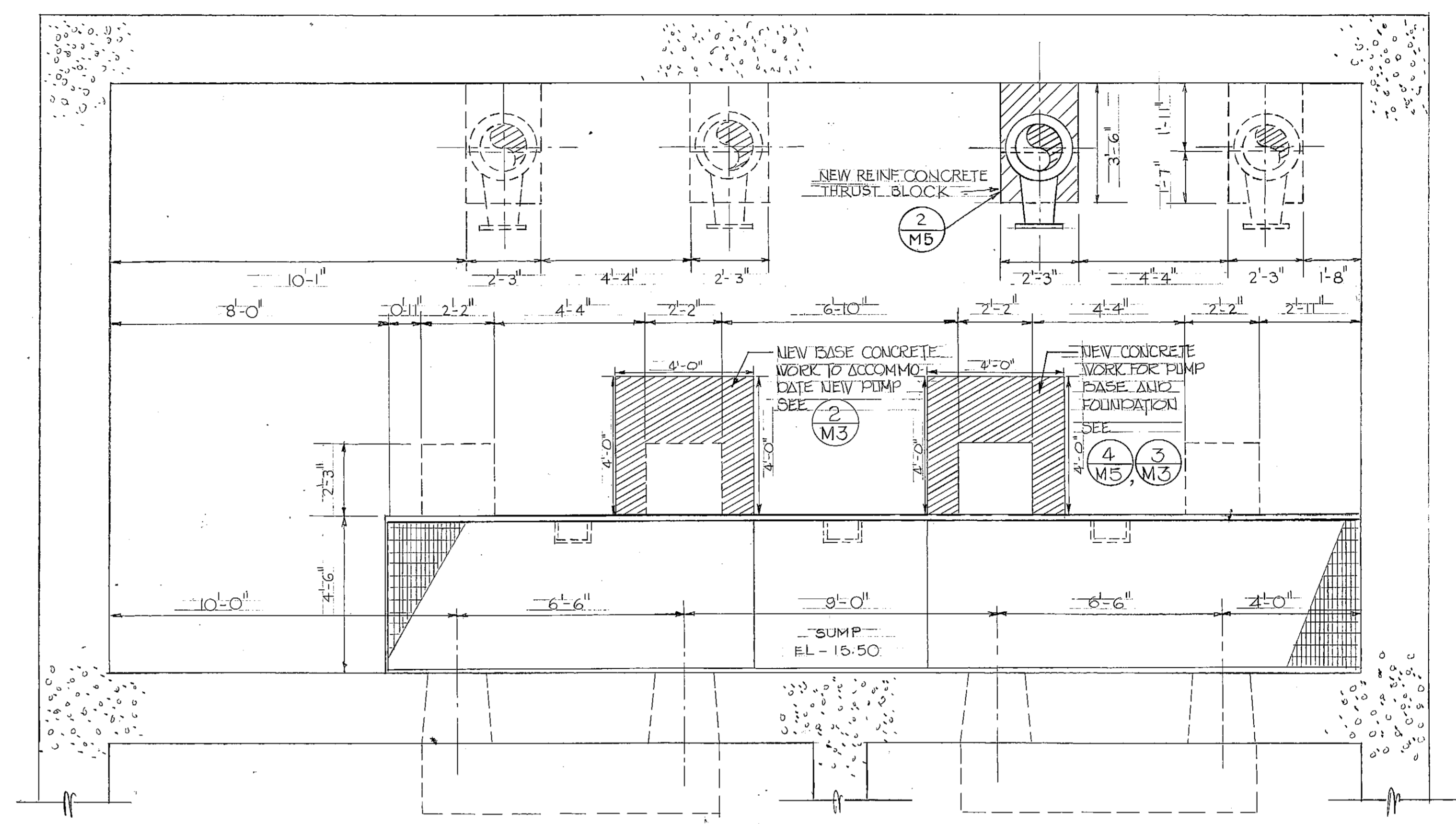
*CPR OCT 79
JBT*

NOTE:
ALL PIPE 1/2" EXCEPT AS NOTED MAT'L AS PER SPECS.
CROSS-OVERS B/CR BLOCKING AS REQ. CLAMP TO BOARD AS
REQ. PROVIDE NINE (9) ENGRAVED PHENOLIC PLASTIC NAME
PLATES TO INDICATE VALVE FUNCTIONS AS APPROVED BY THE
ENGINEER.

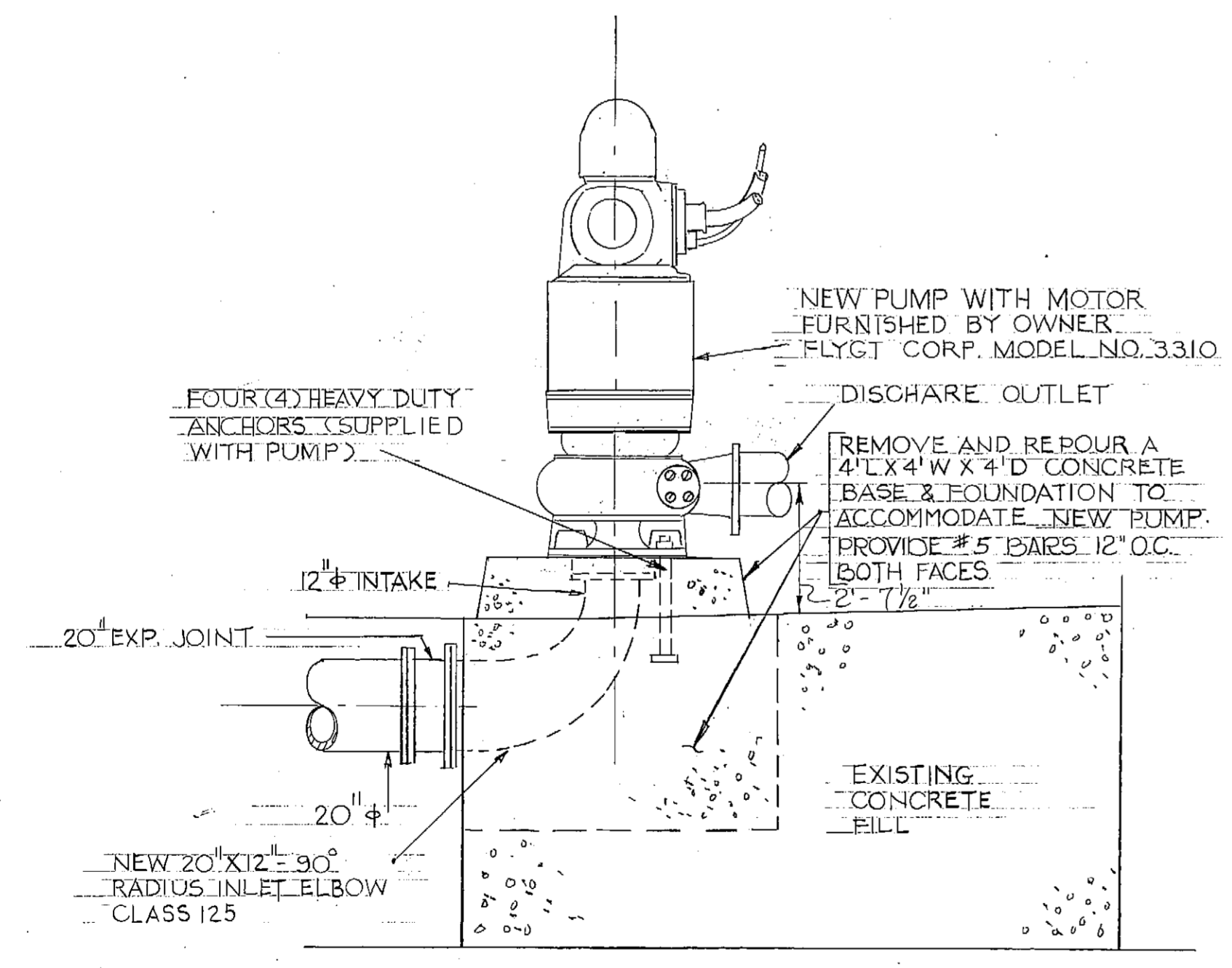
GRAPHIC SCALE										ELLERBE		ANCHORAGE SEWER UTILITY					
FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	DWN/CRD	DATA	DWN/CRD	DATE	GRID	SHEET
DESIGN	1	6-28-79	CHANGED DIFFERENTIAL PRESSURE TRANSMITTERS AND PUMPS FROM WALL TO FLOOR MOUNTED.	RDS							BASE	CRC	TELE		6-9-79	2525	M4 of 5
STAKING											PROFILE	NY	DESIGN				
ASBUILT											SAN SEWER		QUANTITIES				
CONTRACTOR											STORM SEWER		PRELIM. CHECK				
INSPECTOR											WATER		FINAL CHECK				
CONSTRUCTION RECORD											GAS						
			REVISIONS			VERTICAL DATUM			VERTICAL DATUM			PLAN CHECK					



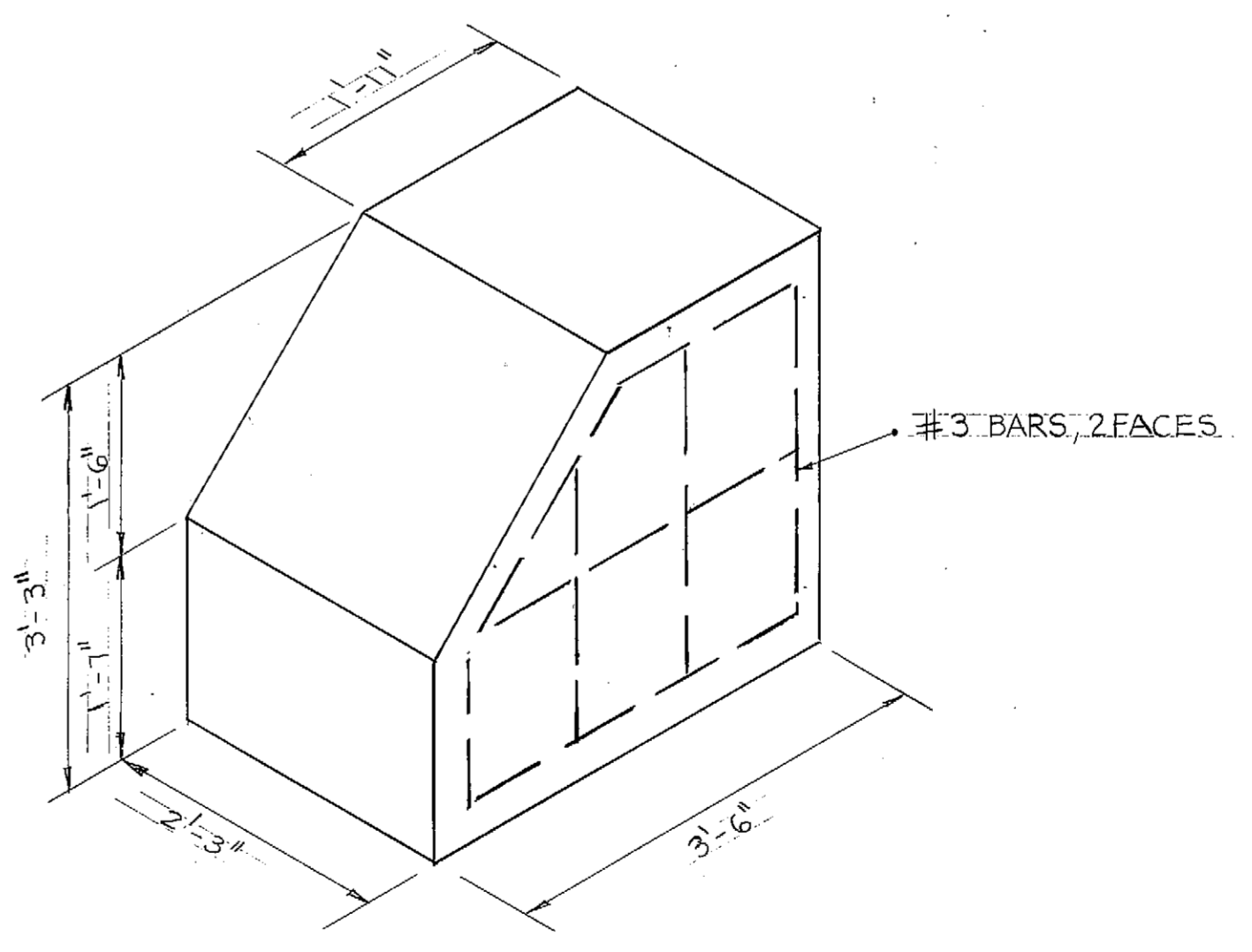
3 UNIVERSAL VENTURI FLOWMETERING SYSTEM
M5 NO. SCALE



1 FLOOR PLAN
M5 SCALE 3/8" = 1'-0"



4 NEW CONCRETE BASE FOR PUMP NO. 2
M5 SCALE 3/8" = 1'-0"



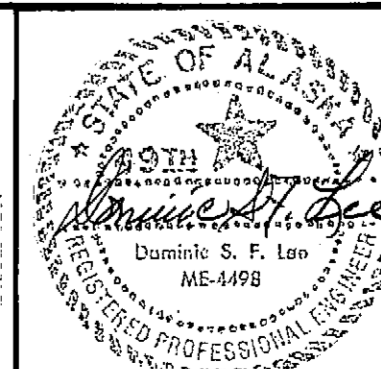
2 CONCRETE THRUST BLOCK DETAIL
M5 SCALE 3/4" = 1'-0"

CPR OCT 79
JG1

GRAPHIC SCALE										ELEV.		DATA		DATA		DATA		
FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	BASE	TOPO	PROFILE	SAN SEWER	STORM SEWER	WATER	GAS	PLAN CHECK
	1	6-28-79	CHANGED DIFFERENTIAL TRANSMITTER AND PUMP FROM WALL TO FLOOR MOUNT.	RDS														
DESIGN																		
STAKING																		
ASBUILT																		
CONTRACTOR																		
INSPECTOR																		
CONSTRUCTION RECORD																		
			REVISIONS			VERTICAL DATUM			VERTICAL DATUM									



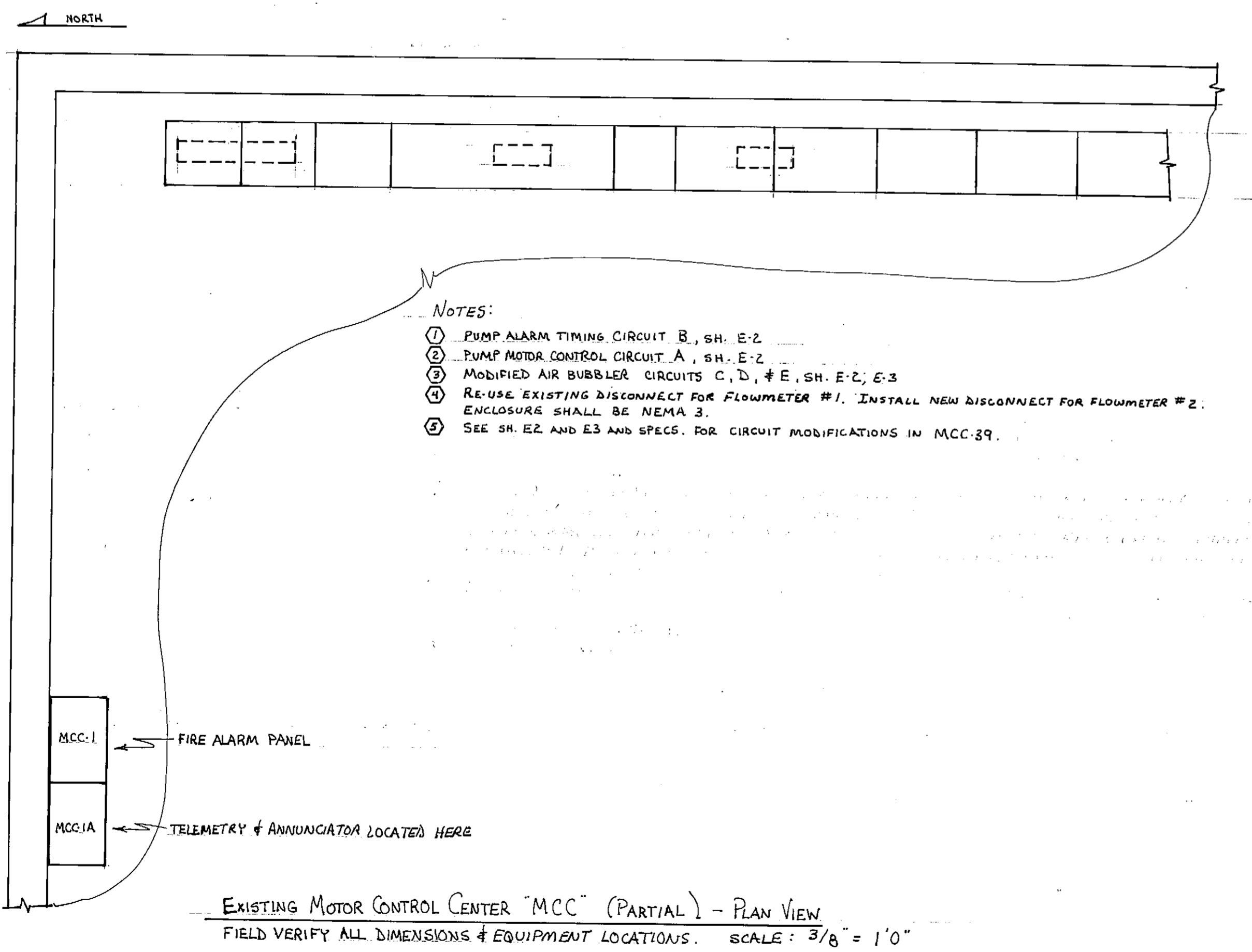
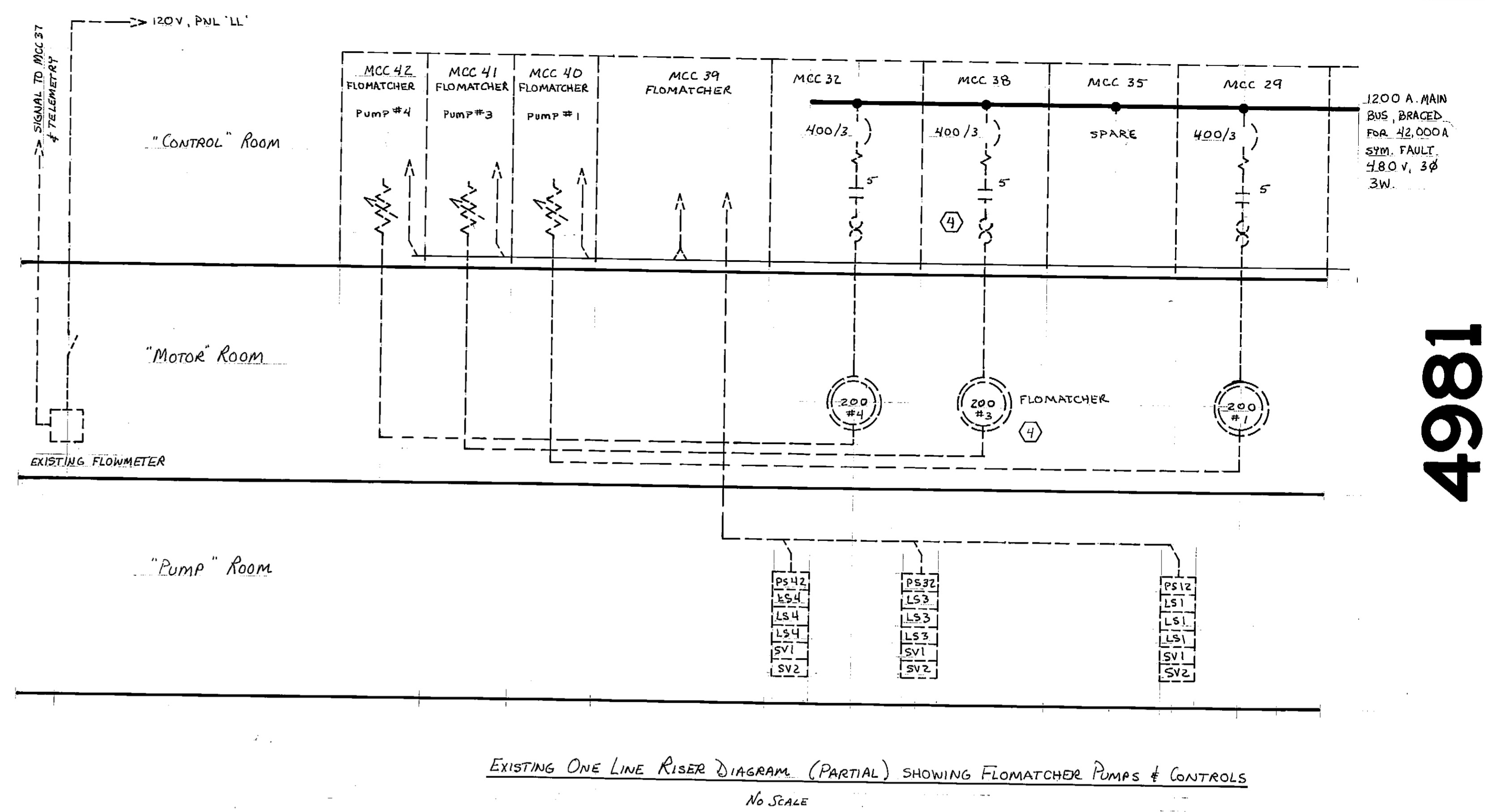
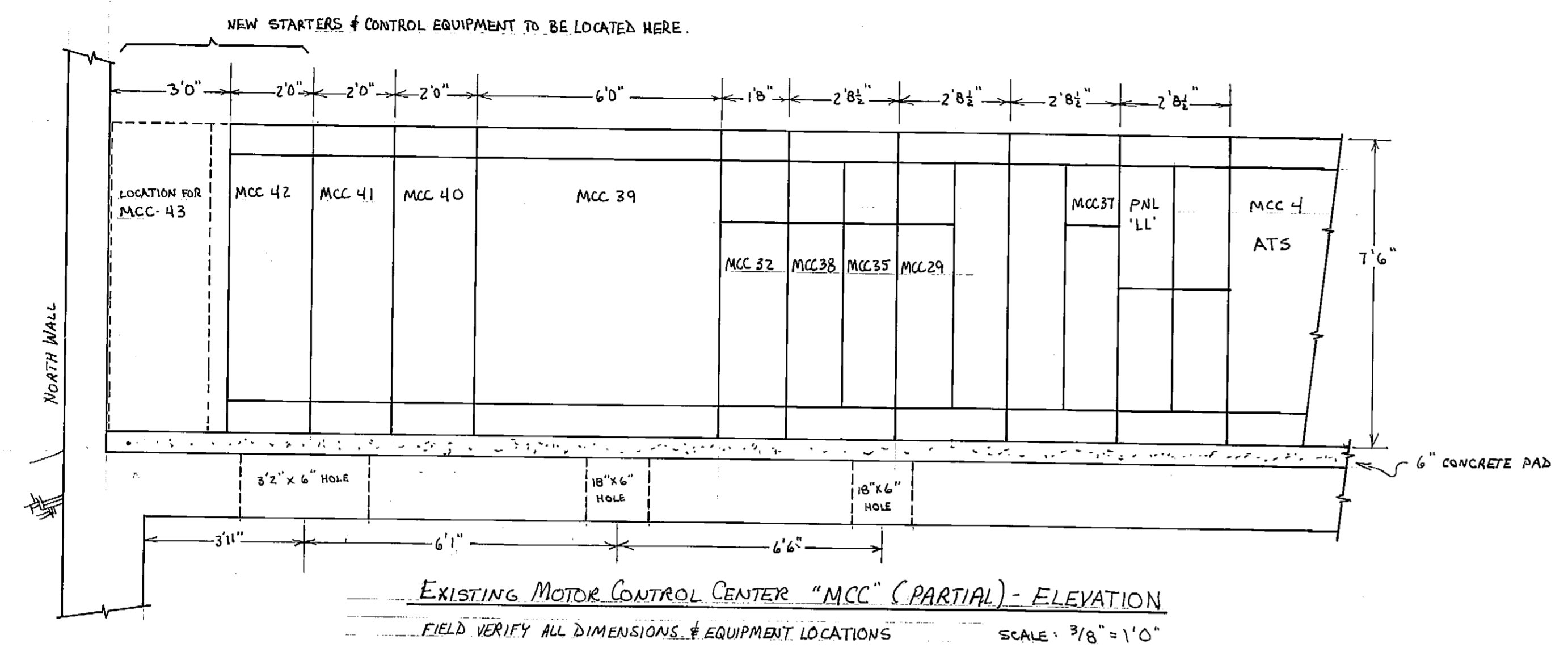
Ellerbe Associates Inc
3201 C St suite 400
Anchorage AK 99503



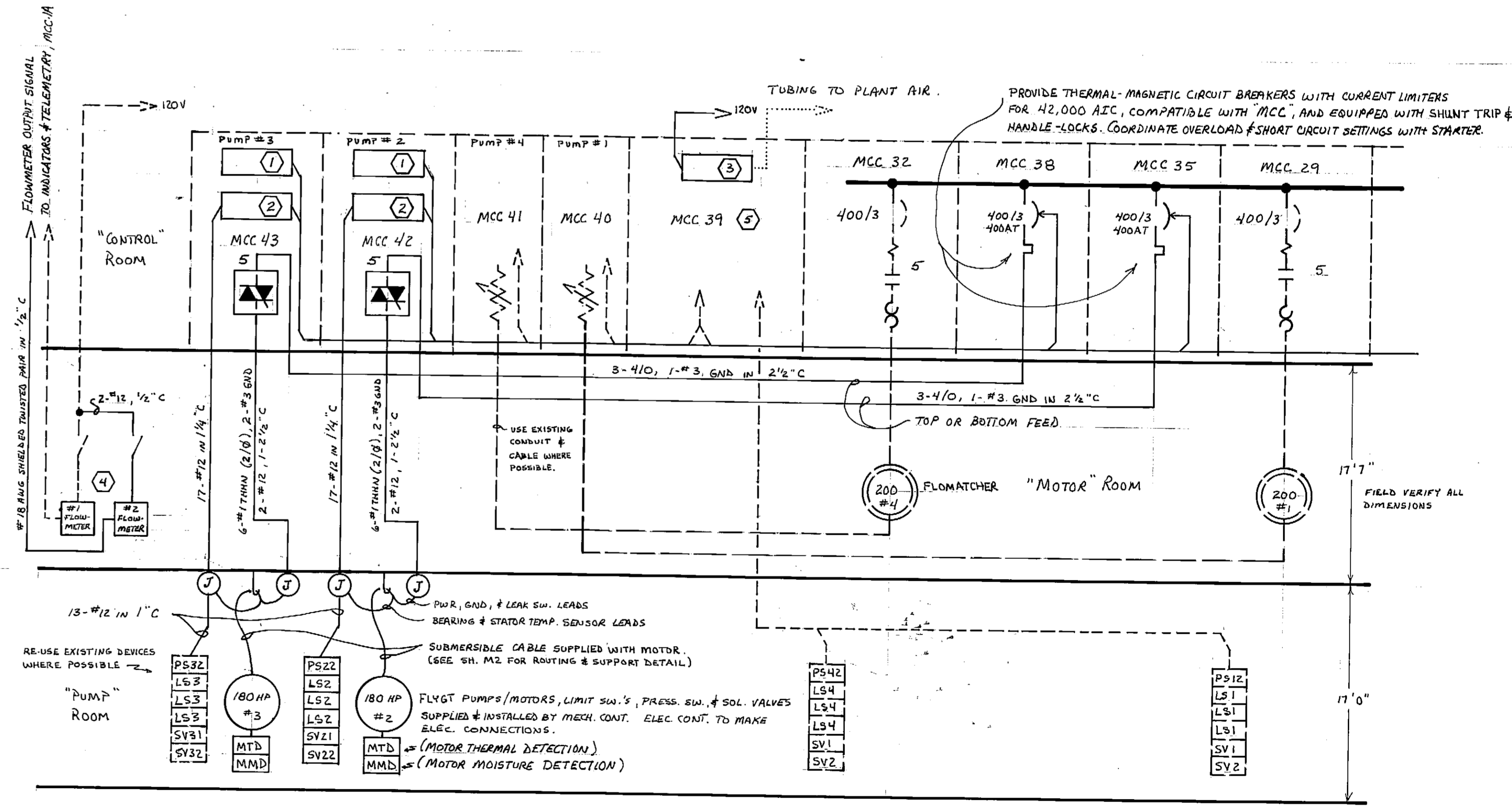
ANCHORAGE SEWER UTILITY

CAMPBELL CREEK PUMP STATION
PUMP ROOM PLAN & DETAILS

SCALE HOR. 1" = 50'
VER. 1" = 5'
DATE 6-9-79
GRID SEWER GRID
SHEET M5 of 5
ACCT. NO.



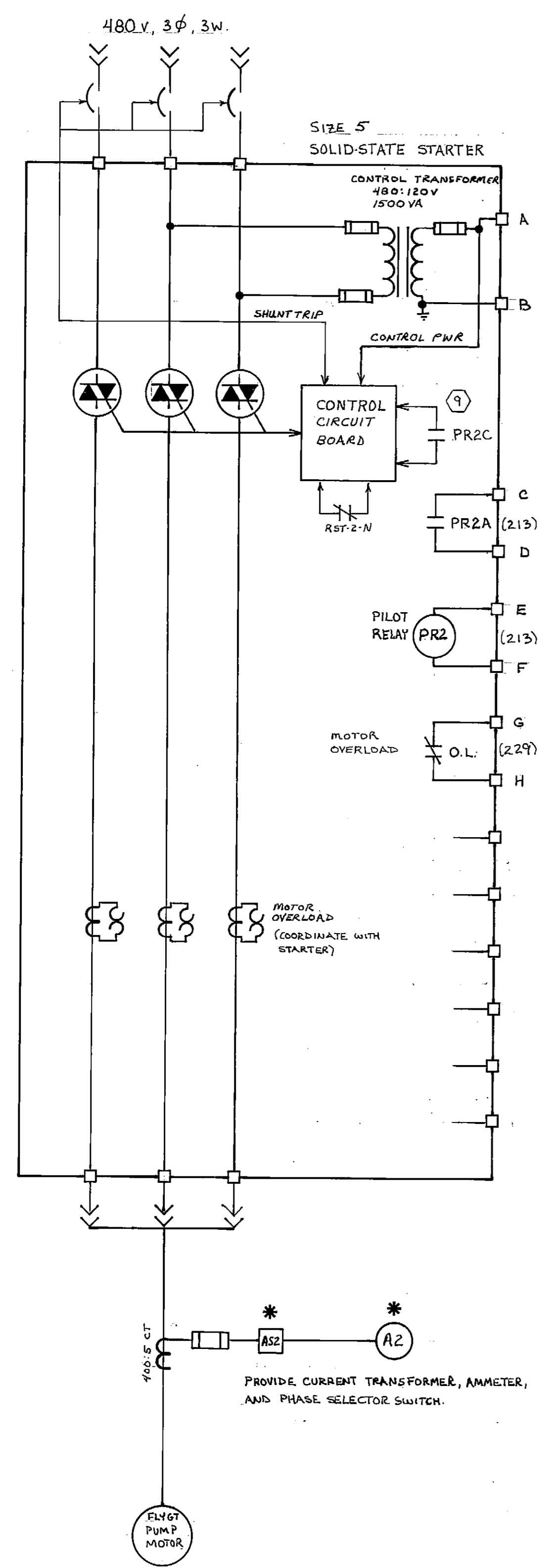
- NOTES:
- ① PUMP ALARM TIMING CIRCUIT B, SH. E-2
 - ② PUMP MOTOR CONTROL CIRCUIT A, SH. E-2
 - ③ MODIFIED AIR BUBBLER CIRCUITS C, D, & E, SH. E-2, E-3
 - ④ RE-USE EXISTING DISCONNECT FOR FLOWMETER #1. INSTALL NEW DISCONNECT FOR FLOWMETER #2. ENCLOSURE SHALL BE NEMA 3.
 - ⑤ SEE SH. E2 AND E3 AND SPECS. FOR CIRCUIT MODIFICATIONS IN MCC 39.



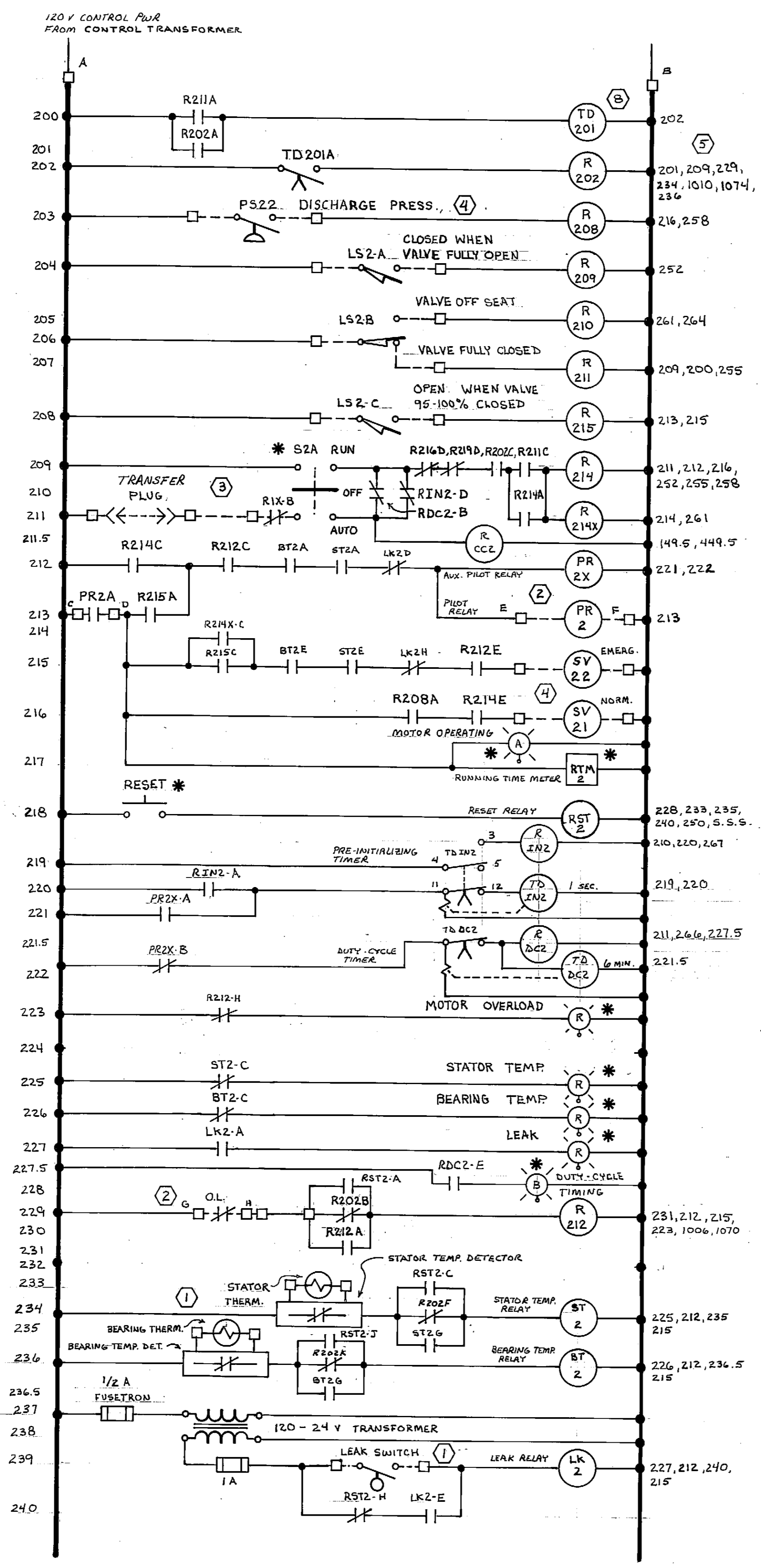
OCT 79
CPR JG7

FIELD BOOKS				REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	OWNED BY	DATA	OWNED BY
DESIGN				1	6-28-79	DELETED NOTES, RELABELED PUMP CONTROL CENTERS.	W&C							BASE	TELE		
STAKING														TOPO	ELEC		
ASBUILT														PROFILE	DESIGN		
CONTRACTOR														SAN SEWER	QUANTITIES		
INSPECTOR														STORM SEWER	PRELIM. CHECK		
CONSTRUCTION RECORD														WATER	FINAL CHECK		
													GAS				

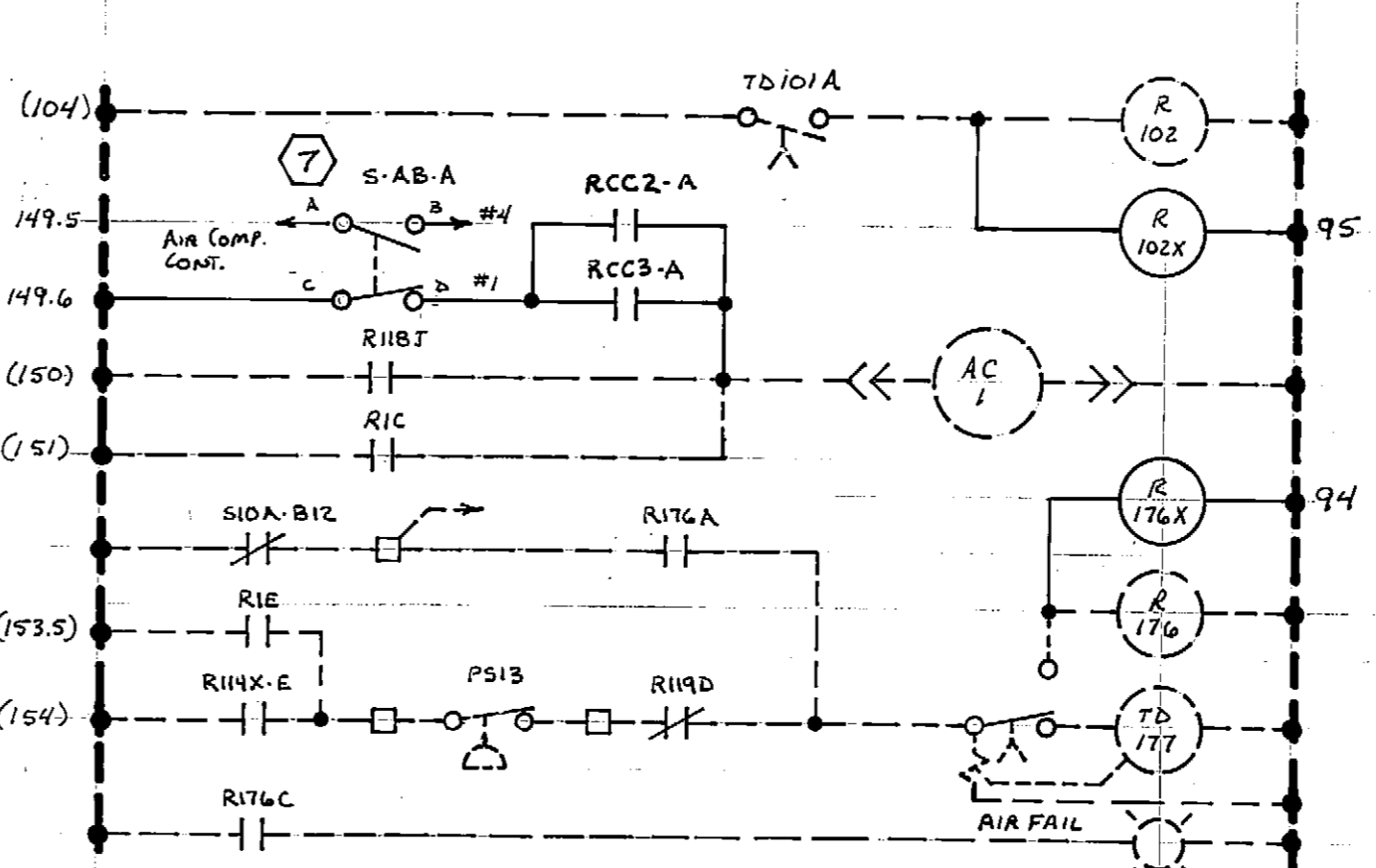
REVEE CONSULTING ENGINEERS		ANCHORAGE SEWER UTILITY	
CAMPBELL CREEK PUMP STATION		ADD CONSTANT SPEED PUMPS:	
ONE LINE DIAGRAM & ELEVATION		SCALE: HOR. 1" = 50'	
DATE: AUG 7 1978		GRID SHEET: E1 of 3	



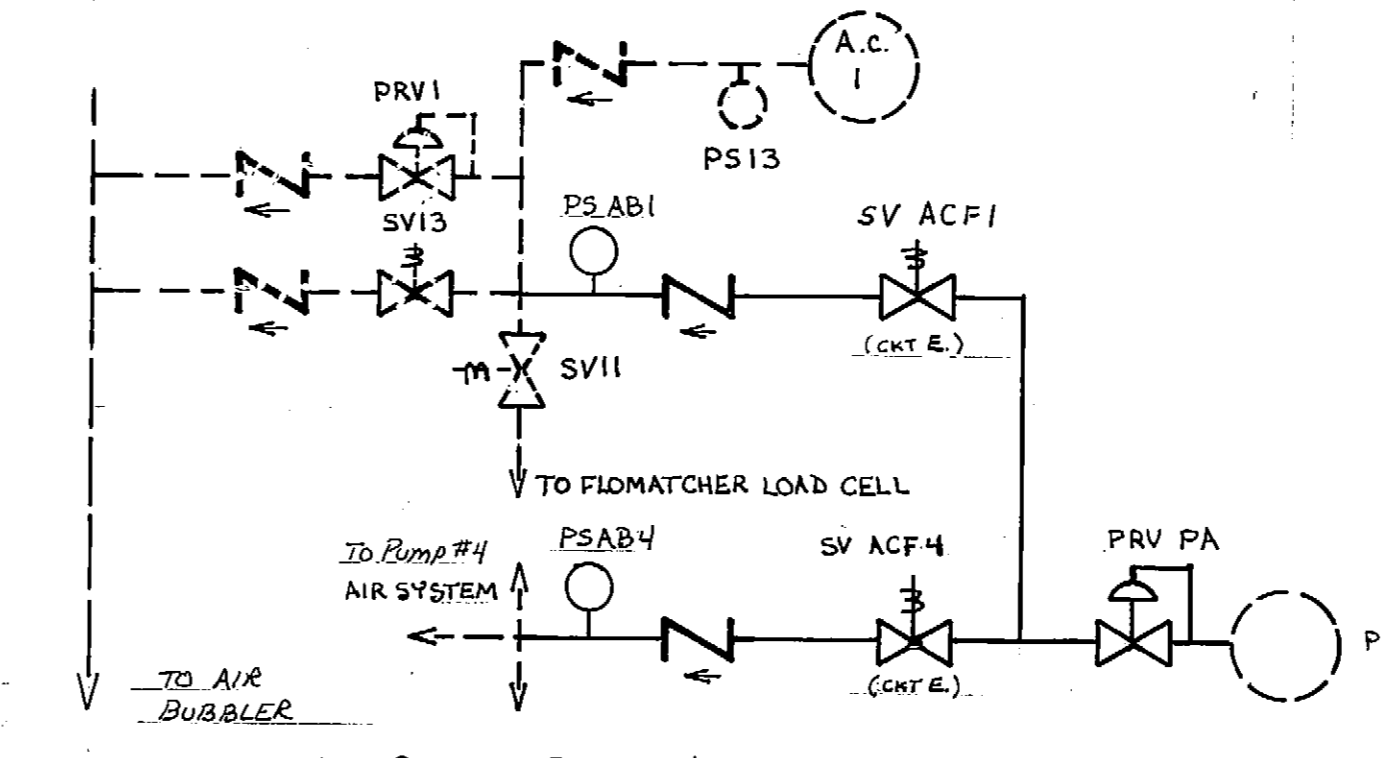
TYPICAL SOLID-STATE MOTOR STARTER
PUMP #2 SHOWN. NUMBERING FOR
PUMP #3 WILL BE WITH A "3".



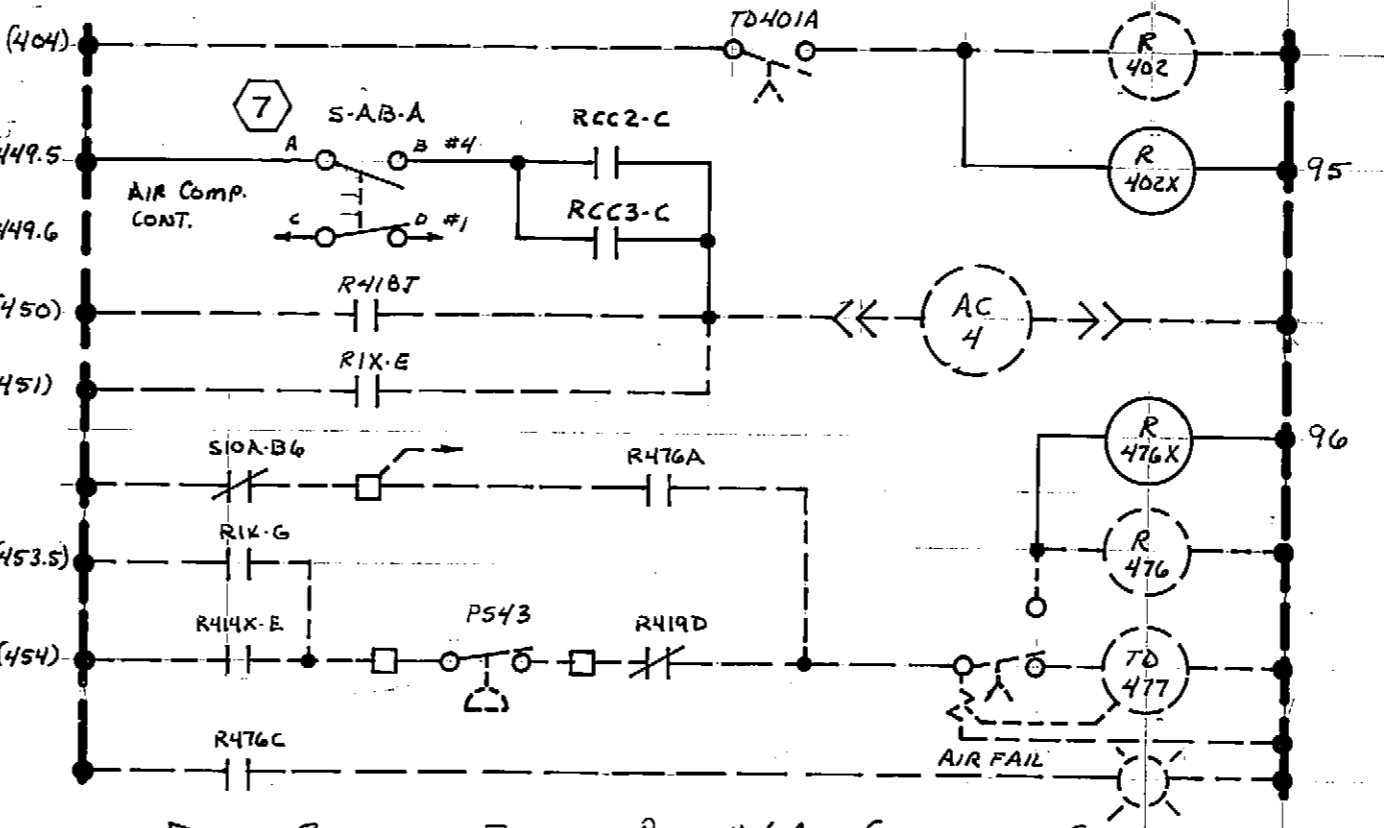
TYPICAL PUMP MOTOR CONTROL CIRCUIT A.
PUMP #2 SHOWN. PUMP #3 WILL BE SIMILAR EXCEPT
DEVICES WILL BE NUMBERED WITH A "3". LOCATE IN
COMMON ENCLOSURE WITH SOLID-STATE STARTER AND ALARM
CIRCUIT B.



PARTIAL SCHEMATIC, EXISTING PUMP #1 AIR COMPRESSOR CIRCUIT.
CIRCUIT C. EXISTING CIRCUITS & DEVICES SHOWN DASHED. ADD THOSE
SHOWN SOLID. SEE FLOMATCHER DWG. C-11880 FOR ADDITIONAL DETAIL.
SEE CIRCUIT E, SHEET E3, FOR R102X AND R176X CONTACTS.

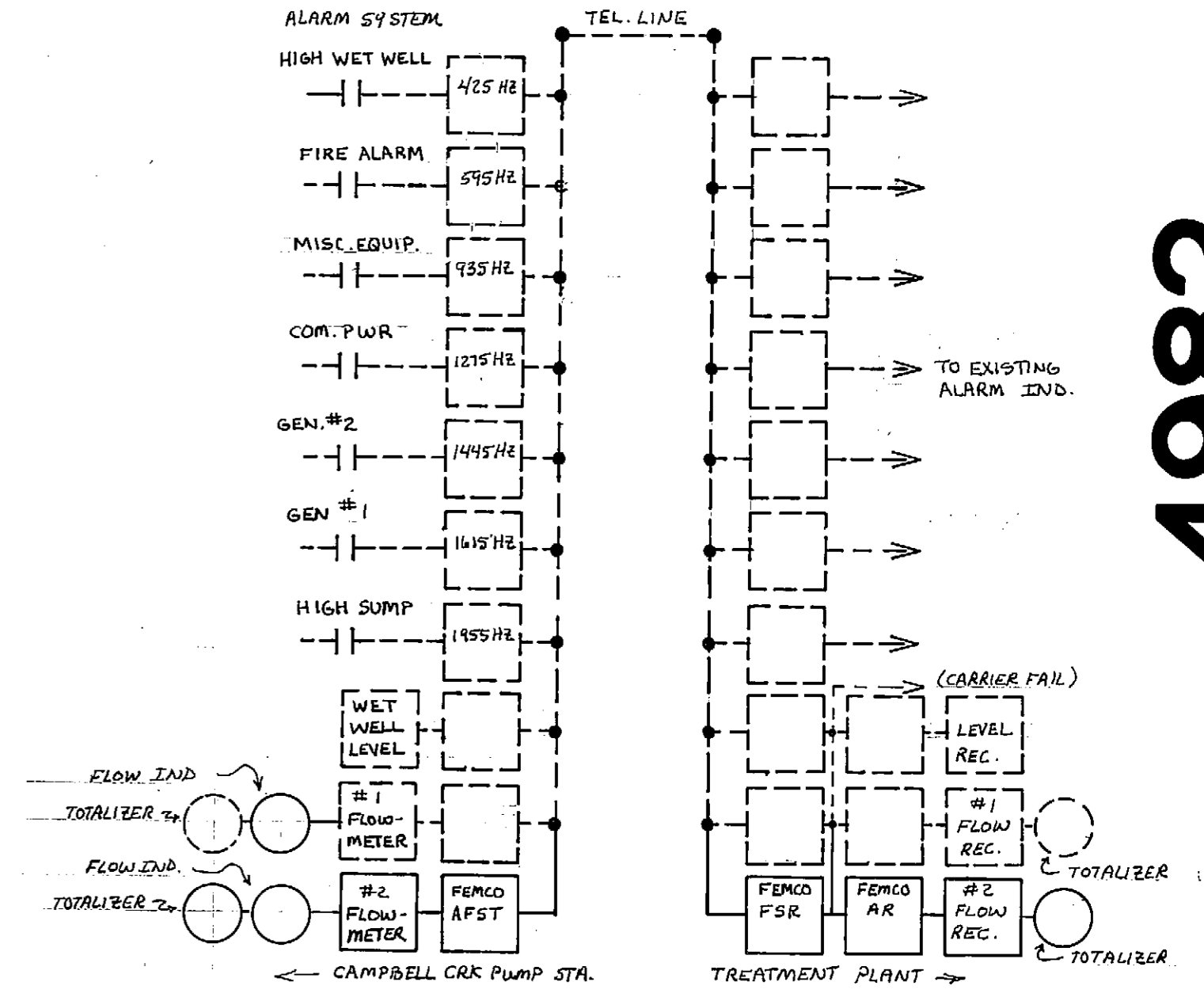


AIR BUBBLER SYSTEM MODIFICATIONS.
NEW DEVICES SHOWN SOLID. NOTE: SEE SH. E3, CIRCUIT E.
FOR ELECTRICAL FUNCTION OF PS AB1, PS AB4, SV ACF1, & SV ACF4
MECH. CONT. TO SUPPLY DEVICES & INSTALL. ELEC. CONT. TO MAKE ELEC. CONN.

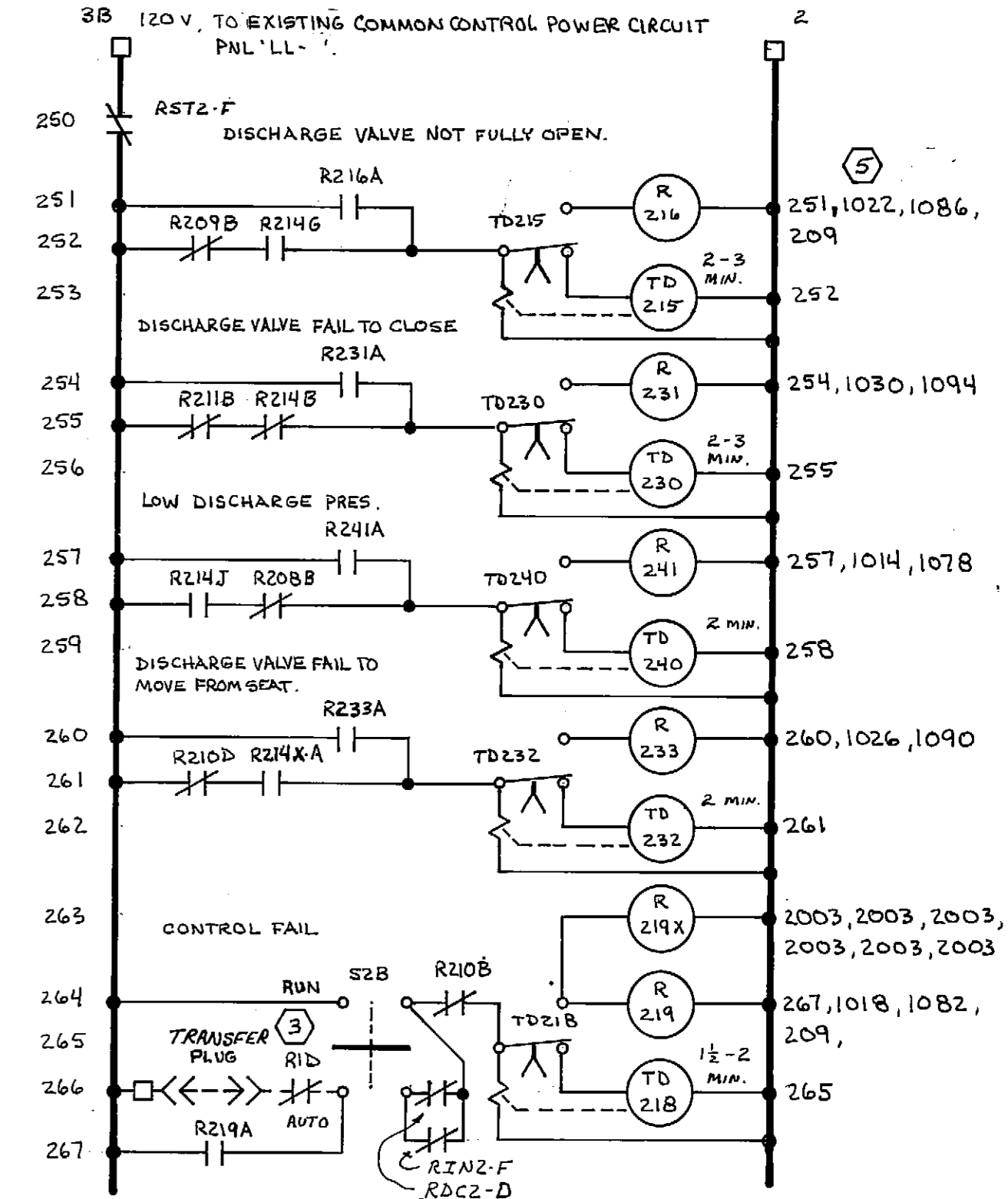


PARTIAL SCHEMATIC, EXISTING PUMP #4 AIR COMPRESSOR CIRCUIT.
CIRCUIT D. EXISTING CIRCUITS & DEVICES SHOWN DASHED. ADD THOSE
SHOWN SOLID. SEE FLOMATCHER DWG. C-11883 FOR ADDITIONAL DETAIL.
SEE CIRCUIT E, SHEET E3, FOR R402X AND R476X CONTACTS.

- NOTES:
- STATOR AND BEARING THERMISTORS, ASSOCIATED DETECTORS, AND LEAK SWITCH SUPPLIED BY FLYGT WITH PUMP MOTOR.
 - OVERLOAD AND UNBALANCE CT'S, CONTACTS, AND PILOT RELAY ARE EXTERNAL TO SOLID-STATE STARTER.
 - THE FOLLOWING DEVICES ARE EXISTING IN MCC-39, FLOMATCHER SEQUENCING AND CONTROL CIRCUITS, AND ARE TO BE USED WITH THE FLYGT PUMP CONTROL CIRCUITS: RIX-B, RID (FLOMATCHER DRAWING C-11879), S10 (FLOMATCHER DRAWING E-11927), AND TRANSFER PLUG (FLOMATCHER DRAWING C-1209).
 - PS22, LS2-A, B, & C, AND SV21 & SV22 LOCATED AT PUMP DISCHARGE IN PUMP ROOM.
 - CIRCUIT REFERENCE NUMBERS OF THE "1000" SERIES REFER TO SH. E3. REFERENCE NUMBERS OF THE "2000" SERIES REFER TO FLOMATCHER DRAWING C-1209. # SH. E3.
 - DEVICES MARKED WITH * ARE TO BE LOCATED ON DOOR OF RESPECTIVE ENCLOSURE.
 - SELECTOR SW. S-AB-A APPEARS IN CIRCUITS C & D. THIS SHEET AND IS MECHANICALLY INTERLOCKED WITH S-AB-B IN CIRCUIT E, SHEET E3. LOCATE S-AB-A/B IN MCC-39.
 - COORDINATE TIME DELAY SETTING WITH OTHER PUMPS.
 - CONSULT STARTER MANUFACTURER FOR LATEST METHOD OF USING A SINGLE CONTACT FOR START/STOP. AN ADDITIONAL 0.5 SEC. TIME DELAY RELAY MAY BE REQUIRED.



ALARM SYSTEM
TELEMETRY SYSTEM
EXISTING DEVICES SHOWN DASHED. ADD DEVICES SHOWN SOLID. VERIFY FREQUENCIES.
FLOWMETERS SUPPLIED & INSTALLED BY MECH. CONT.



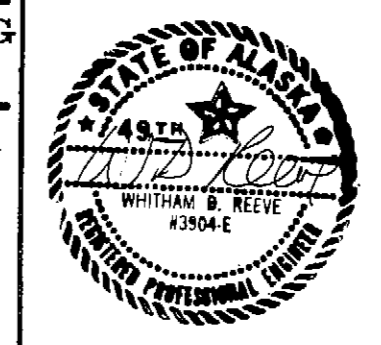
TYPICAL PUMP ALARM TIMING CIRCUIT B.
PUMP #2 SHOWN. PUMP #3 WILL BE SIMILAR EXCEPT
DEVICES WILL BE NUMBERED WITH A "3". LOCATE
IN COMMON ENCLOSURE WITH SOLID-STATE STARTER
AND PUMP MOTOR CONTROL CIRCUIT A. NOTE: S2A
(CIRCUIT A) AND S2B MECHANICALLY INTERLOCKED.

CPR 05779

GRAPHIC SCALE

DESIGN	FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	OWN/CKD BY	DATA	OWN/CKD BY
STAKING															
ASBUILT															
CONTRACTOR															
INSPECTOR															
CONSTRUCTION RECORD															
REVISIONS															
VERTICAL DATUM															
VERTICAL DATUM															

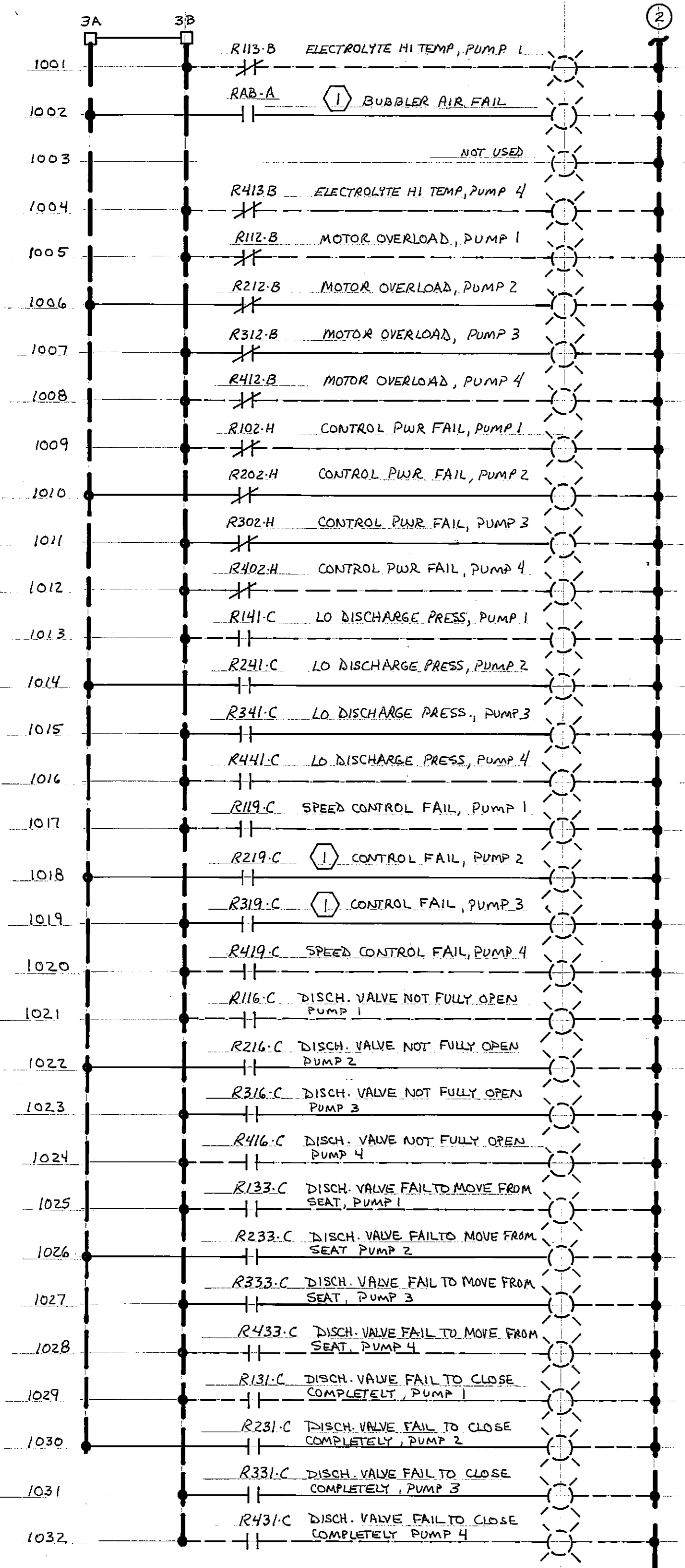
REEVE CONSULTING ENGINEERS



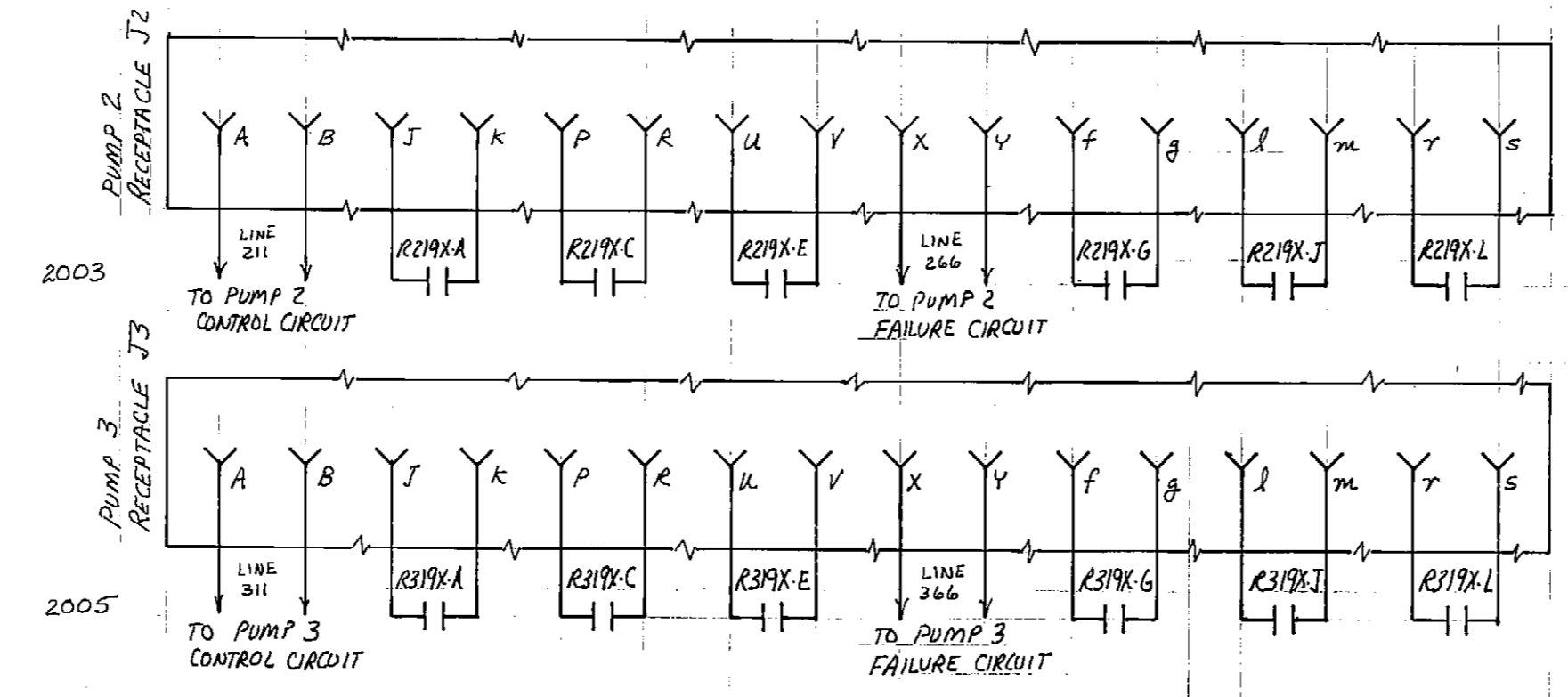
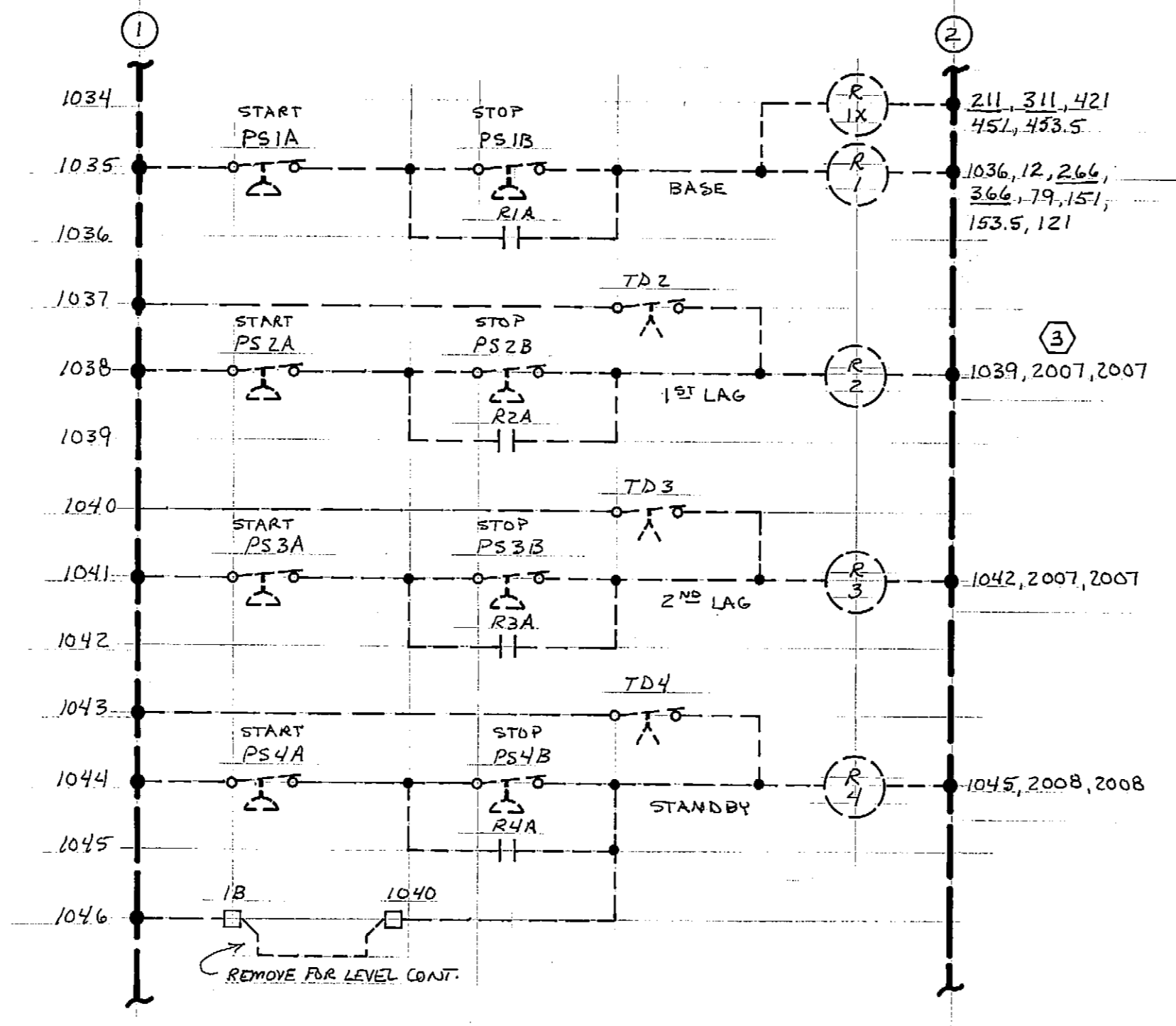
ANCHORAGE SEWER UTILITY

CAMPBELL CREEK PUMP STATION
ADD CONSTANT SPEED PUMPS:
CONTROL SCHEMATICS

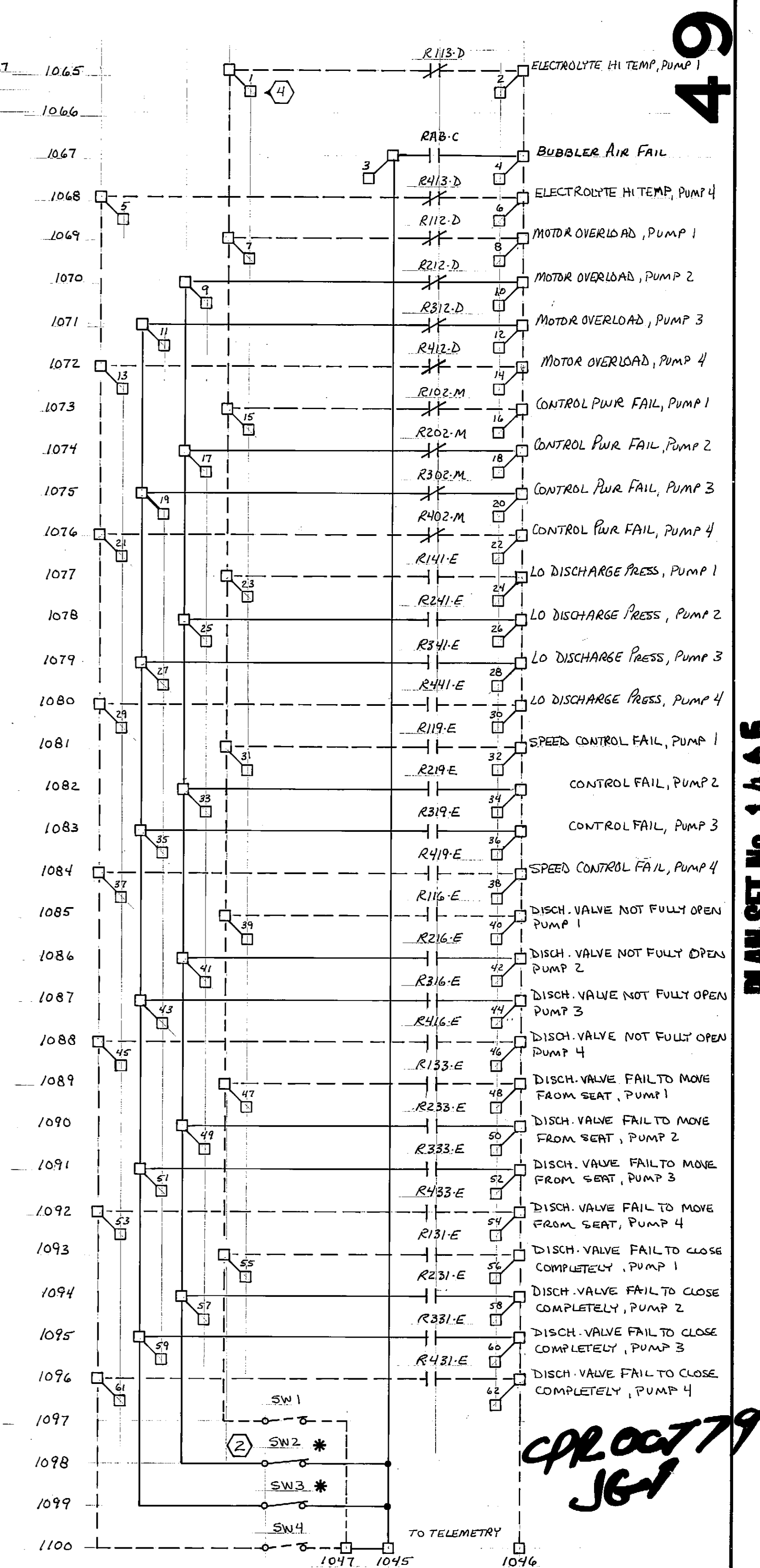
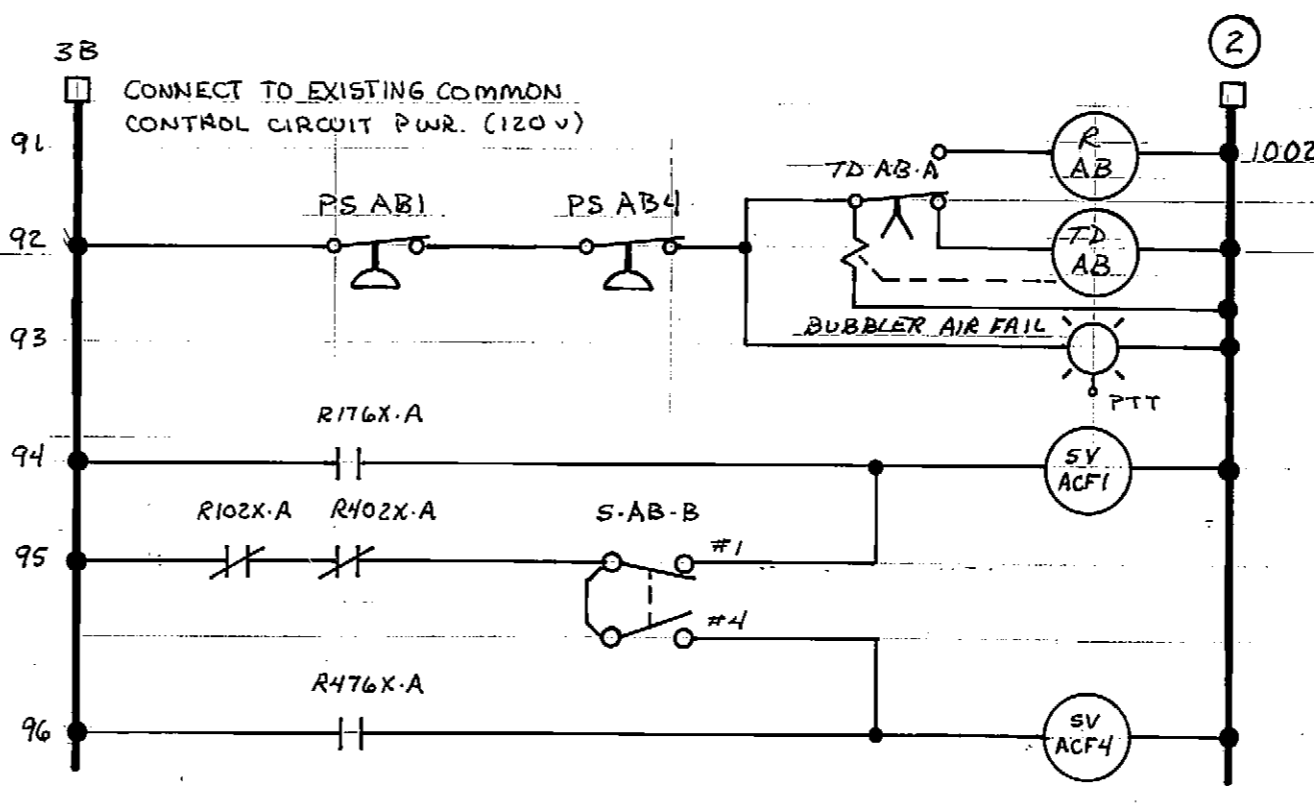
SCALE: HOR. 1"=50' VER. 1"=5'
DATE: Aug 7, 1978
GRID SHEET GRID
SHEET E2 of 3
ACCT. NO.



MISCELLANEOUS EQUIPMENT ALARM CIRCUIT.
ALL LAMPS ARE EXISTING ON ANNUNCIATOR PANEL, MCC-1A.
ADD CONTACTS & WIRING FROM RELAYS IN CIRCUITS A & B, SH. E2. ADDITIONAL DETAIL SHOWN IN FLOMATCHER DWG: C-11879, SH. 2.



- NOTES:
- 1 PROVIDE NEW LENS COVER MARKED AS SHOWN.
 - 2 LOCATE SW2 & SW3 ON MCC-42 & MCC-43, RESPECTIVELY.
 - 3 CIRCUIT REFERENCE NUMBERS OF THE "2000" SERIES REFER TO FLOMATCHER DWG: C-1209
 - 4 PROVIDE TERMINAL BLOCKS IN MCC-39, MCC-42, MCC-43, & MCC-1A. EXTEND ALARM CONTACTS FROM RESPECTIVE MCC TO MCC-1A VIA COMMUNICATIONS CABLE. TERMINATE FOR FUTURE.



TELEMETERED MISCELLANEOUS EQUIPMENT ALARM CIRCUIT.
ADD CONTACTS AND SWITCHES SHOWN SOLID. CONTACTS ARE FROM RELAYS IN CIRCUITS A & B, SH. E2

CPR00779
JG

GRAPHIC SCALE										REEVE CONSULTING ENGINEERS				ANCHORAGE SEWER UTILITY			
DESIGN	STAKING	ASBUILT	CONTRACTOR	INSPECTOR	CONSTRUCTION RECORD	REVISIONS	VERTICAL DATUM	VERTICAL DATUM	VERTICAL DATUM	DATA	DATA	DATA	DATA	SCALE	DATE	GRID	SHEET
										BASE	TOPO	PROFILE	SAN SEWER	1"=50'	Aug 7, 1978	SEWER GRID	E3 of 3
										STORM SEWER	WATER	GAS					

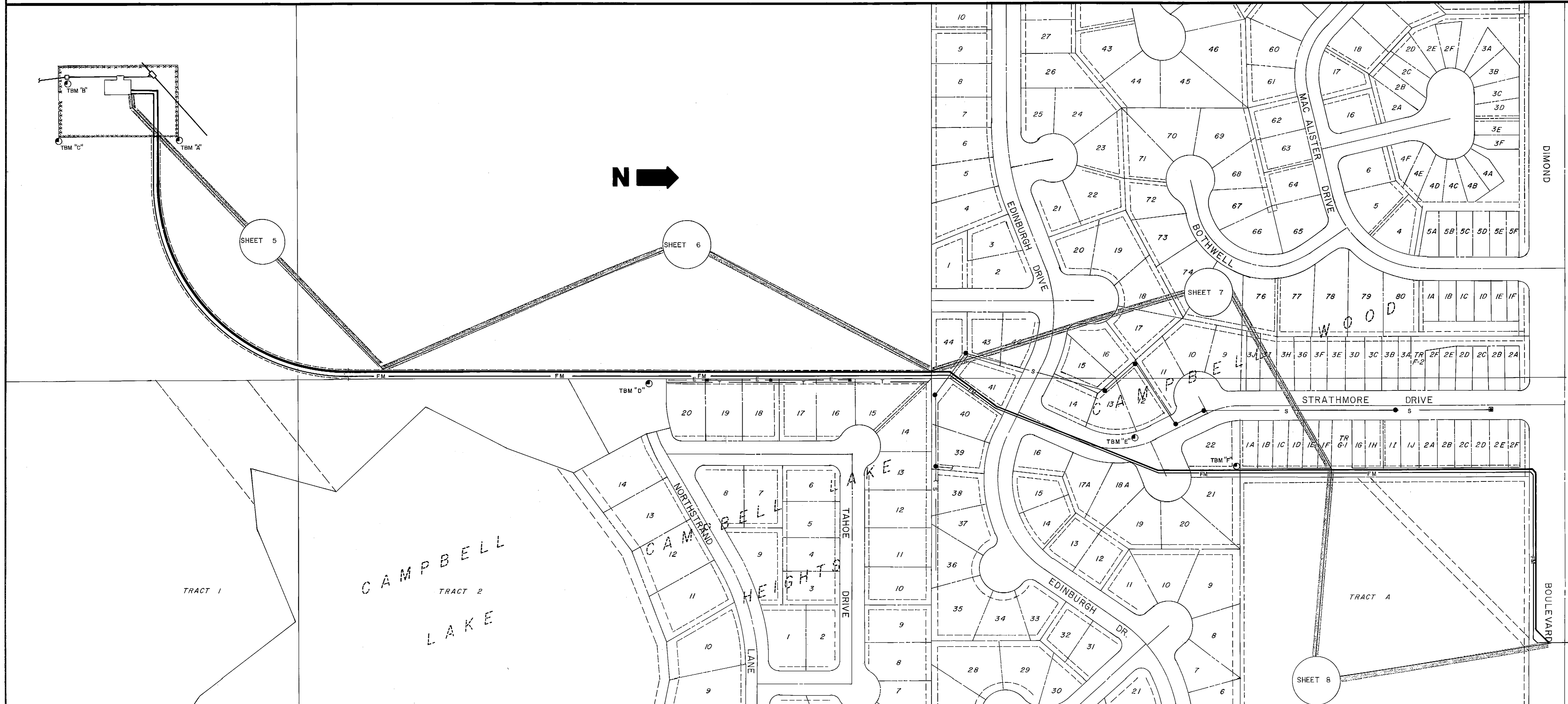
MUNICIPALITY OF ANCHORAGE
SANITARY SEWER IMPROVEMENTS
FOR

**CAMPBELL CREEK FORCE MAIN
PHASE II**

CONTRACTOR
CONTRACT NUMBER
NOTICE TO PROCEED
ORIGINAL CONTRACT AMOUNT
FINAL CONTRACT AMOUNT
ACTUAL COMPLETION DATE
INSPECTOR

TAM CONSTRUCTION
C-30156
SEP 25, 1978
232,170.35
252,140.54
MAY 31, 1979
H.E. ALARIE

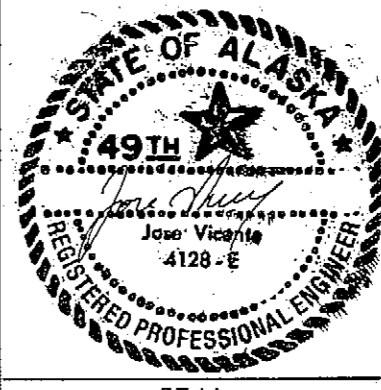




KEY MAP
SCALE: 1"=100'

FIELD BOOKS		REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	DATE	DATA	DATE
DESIGN MUNICIPALITY F.B. # 1481		1	2-16-79	ASBUILT SURVEY NOTES, LEVEL BOOK 310 RECEIVED	DCK							BASE	J.S.	TELE	J.S.
STAKING 3/23/78				RED-LINED "AS BUILT" CONSTRUCTION DRAWINGS RECEIVED								TOPO	J.S.	ELEC	J.S.
ASBUILT 2-16-79												PROFILE	J.S.	DESIGN	J.S.
CONTRACTOR TAM CONSTRUCTION												SAN SEWER	J.S.	QUANTITIES	J.S.
INSPECTOR H.E. ALARIE												STORM SEWER	J.S.	PRELIM. CHECK	
CONSTRUCTION RECORD												WATER	J.S.	FINAL CHECK	
REVISIONS												GAS	J.S.		
VERTICAL DATUM												PLAN CHECK			
VERTICAL DATUM												ENGINEERS			

GRAPHIC SCALE



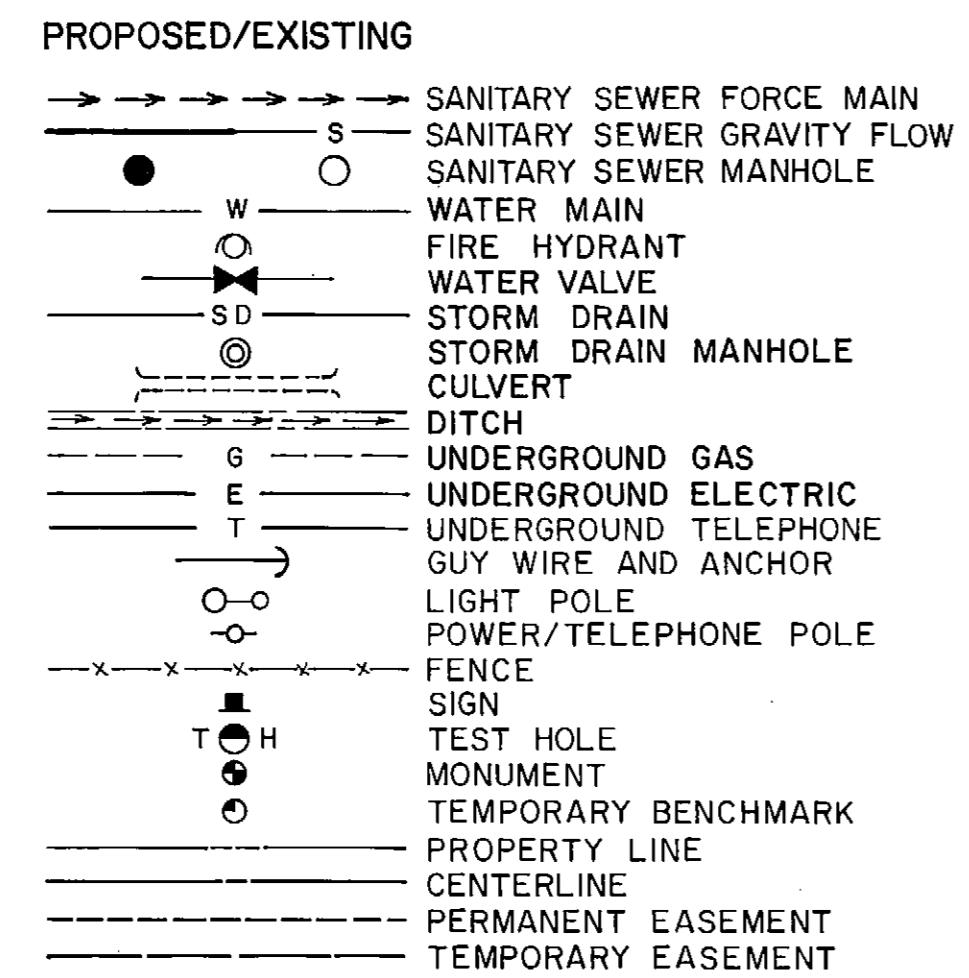
ANCHORAGE SEWER UTILITY
CAMPBELL CREEK FORCE MAIN
PHASE II
KEY MAP

SCALE HOR. 1"=100' DATE 7/18/78 GRID 2425 SHEET 2 of 8
VER. 1"=5' SEWER GRID 5231

NOTES

1. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH MUNICIPALITY OF ANCHORAGE MAY, 1976 STANDARD CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR WILL VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ALL ELEVATIONS ARE BASED ON N.G.S. 1972 ADJUSTMENT.
4. ALL PIPE LENGTHS ARE BASED ON HORIZONTAL DISTANCE.
5. ALL PIPE SHALL BE DUCTILE IRON - CLASS 53.
6. FINISHED GRADE BETWEEN STA. 13+00 & 19+40 SHALL BE APPROXIMATELY THE SAME AS THE EXISTING GRADE.

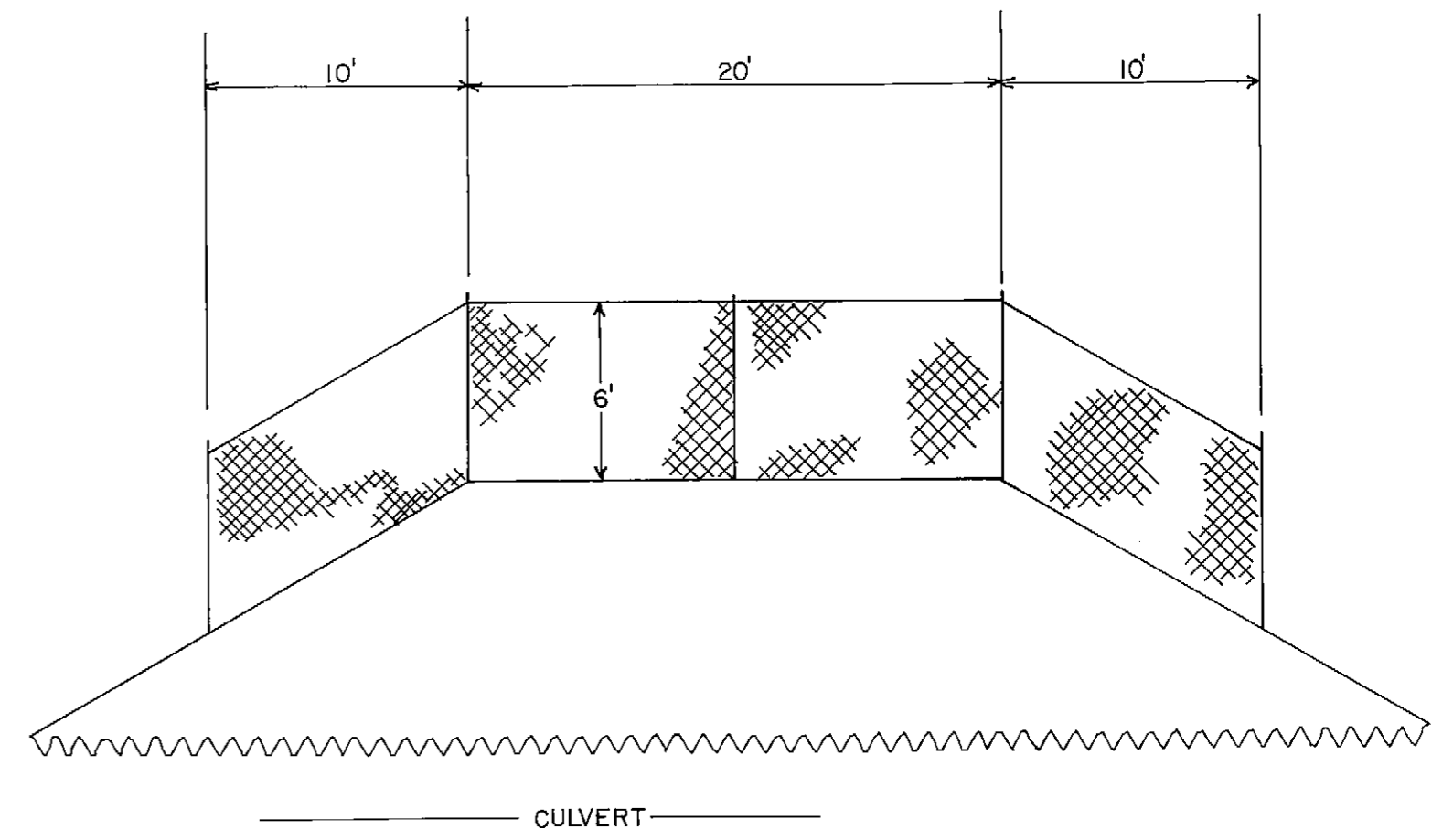
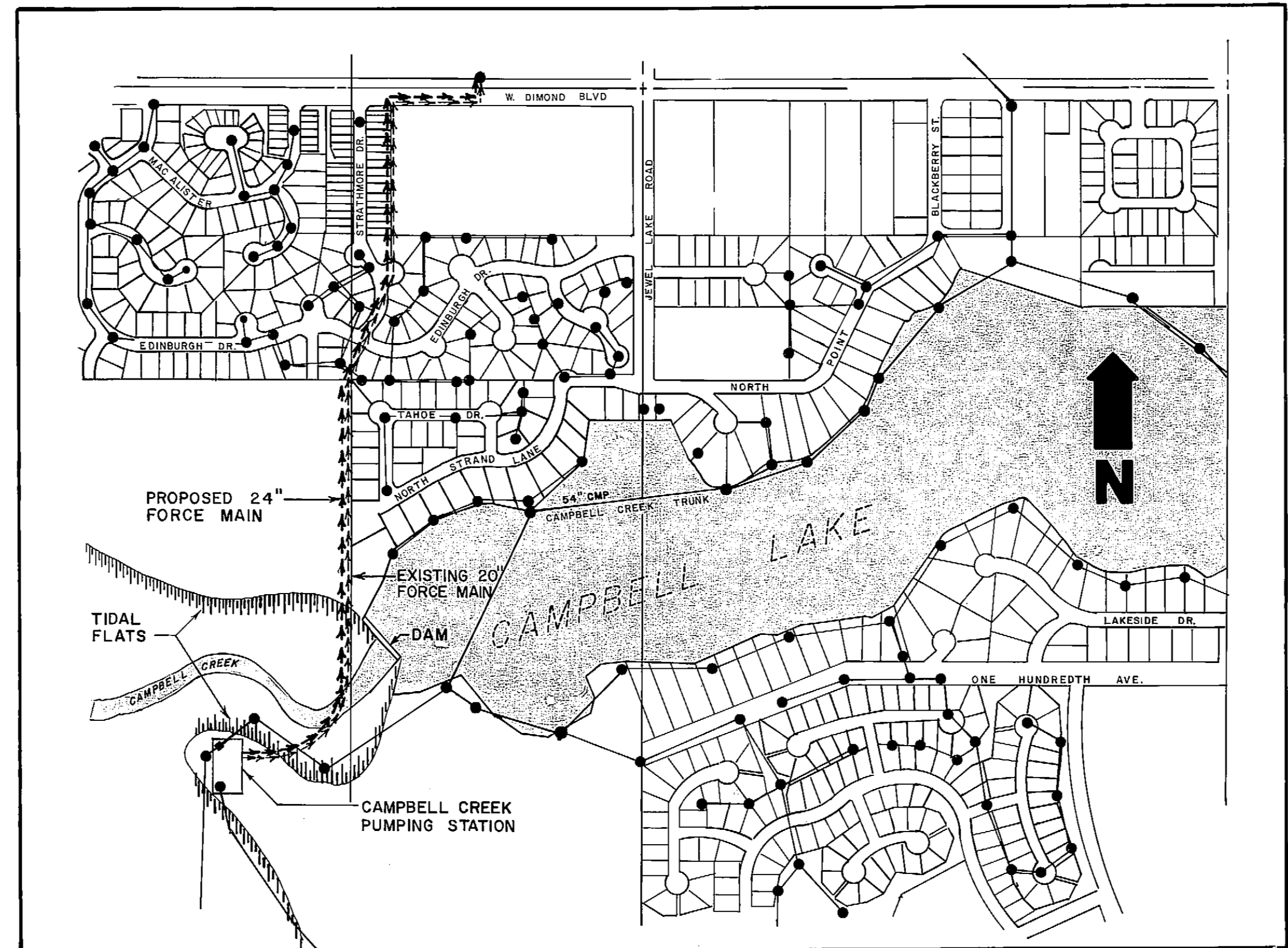
LEGEND



B.M.'s & T.B.M.'s

- A. TOP BC. NE. COR. OF CAMPBELL CK. PUMP STA. TRACK. ELEV. = 19.53
- B. N. RIM MH. STA. -1+30.40. ELEV. = 22.80
- C. BC. AT S.E. COR. OF CAMPBELL CK. PUMP STA. TRACK. ELEV. = 34.95
- D. N. RIM MH. STA. 26+39.90. ELEV. = 72.00
- E. N. BOLT HYD. BY S.E. END HOUSE #9430 STRATHMORE DR. ACROSS FROM CUL-DE-SAC. ELEV. = 70.41
- F. N. RIM MH. STA. 13+63.90. ELEV. = 53.61

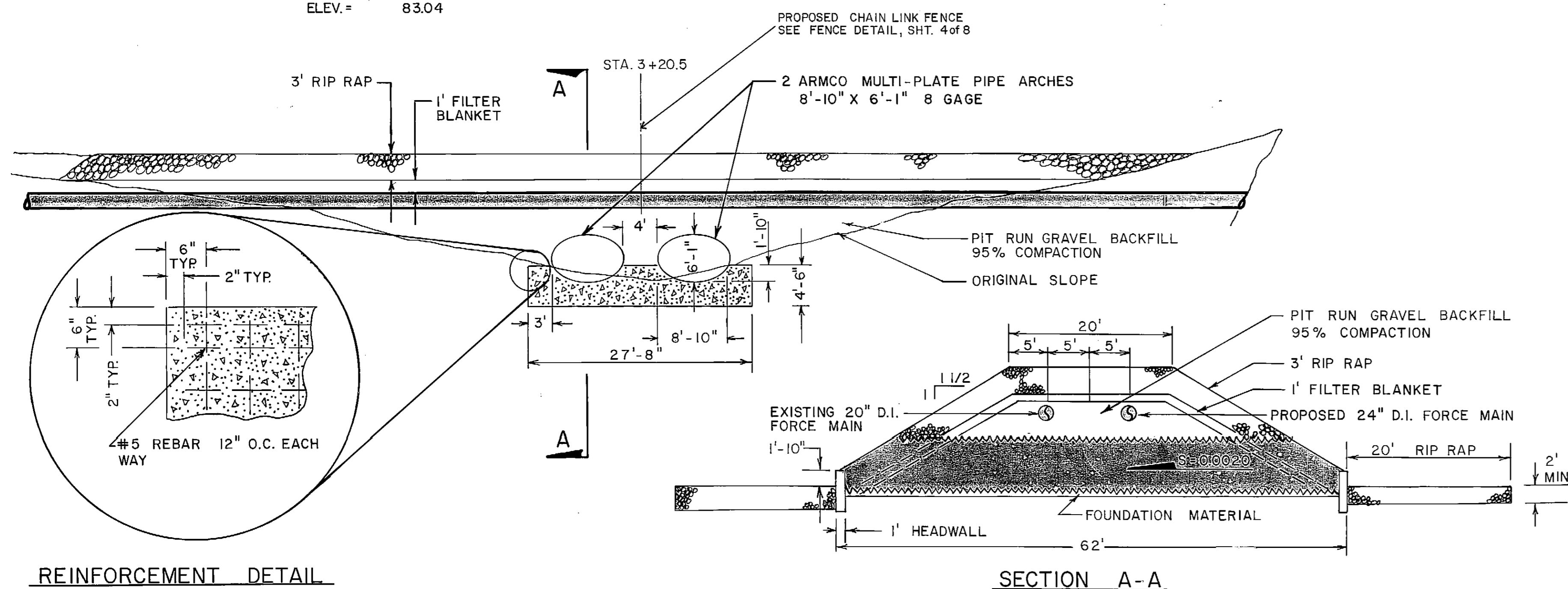
T.M.H. BEGINNING AT W. DIMOND BLVD. & JEWEL LAKE RD. THENCE EASTERLY 190' ALONG $\frac{1}{2}$ OF DIMOND & 50' S. 2.2' N. OF P.P. SL. 75, D187, A60. ELEV. = 83.04



NOTE: REFER TO "FENCE DETAILS" FIG. 311 IN THE STANDARD SPECS.

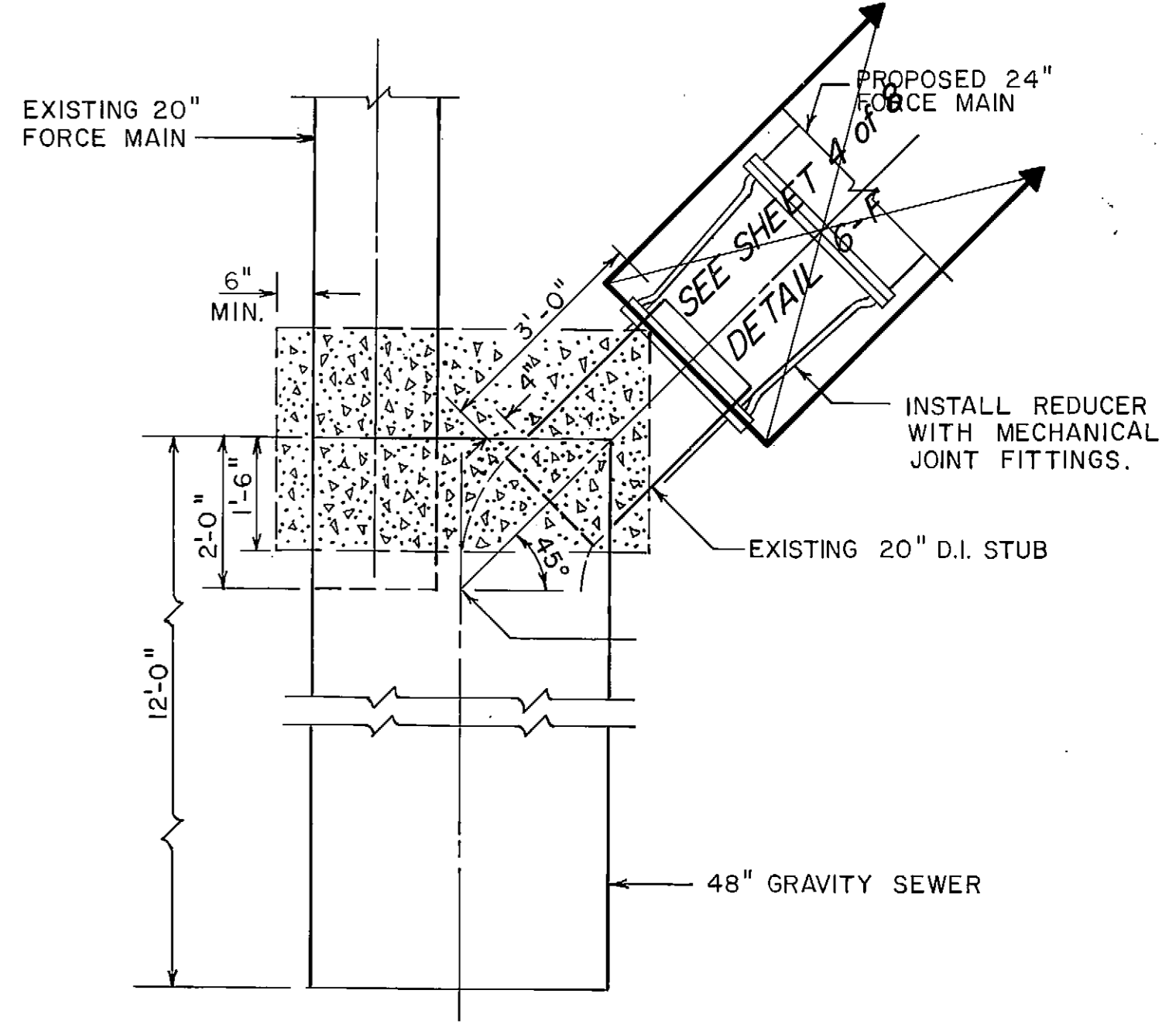
VICINITY MAP

SCALE: 1"=500'



EXISTING CAMPBELL CREEK CROSSING DETAIL

SCALE: 1"=10'



"Y" DETAIL

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

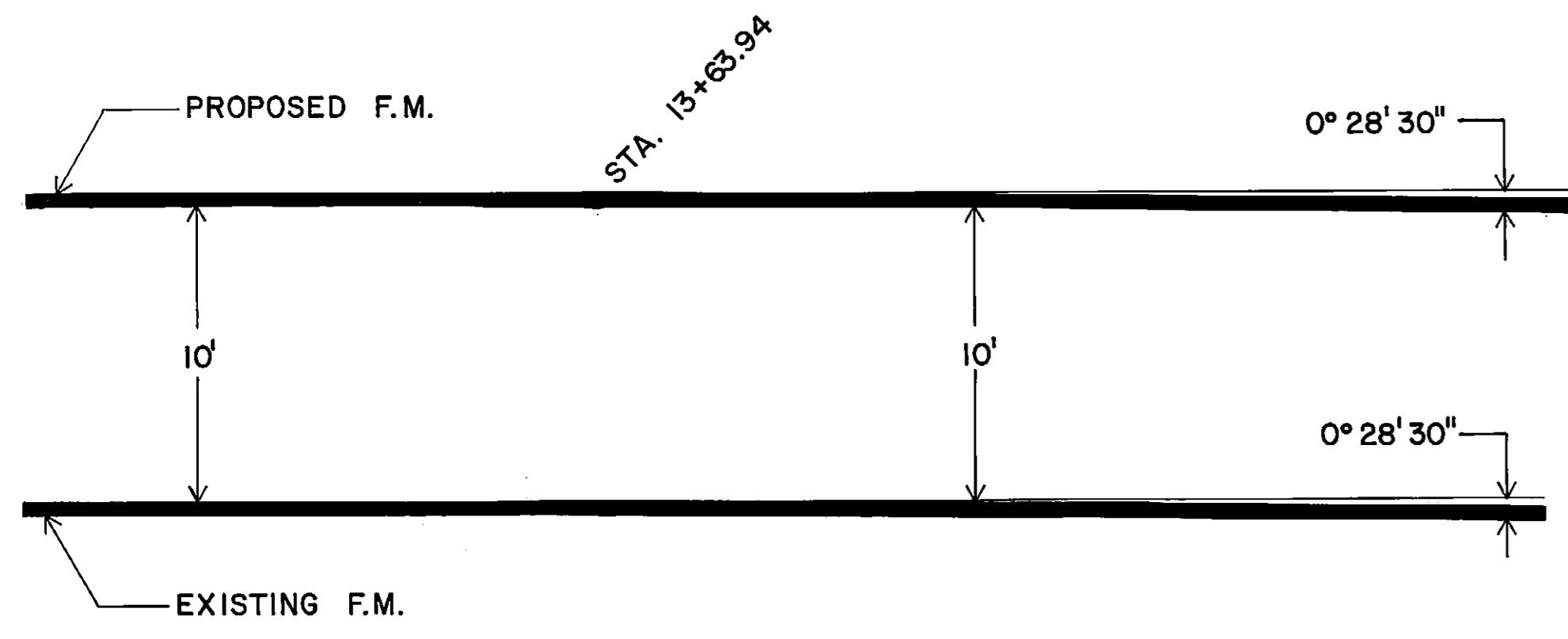
FIELD BOOKS		REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	OWN/CKD BY	DATA	OWN/CKD BY
DESIGN MUNICIPALITY F.B. # 1481		1	2-16-79	AS BUILT SURVEY NOTES, LEVEL BOOK 310, RECEIVED	DCK							BASE	J.S.	TELE	
STAKING				RED-LINED "AS BUILT" CONSTRUCTION DRAWINGS RECEIVED								PROFILE		DESIGN	J.S.
ASBUILT												SAN SEWER		QUANTITIES	
CONTRACTOR TAM CONSTRUCTION												STORM SEWER		PRELIM CHECK	
INSPECTOR H.E. ALARIE												WATER		FINAL CHECK	
CONSTRUCTION RECORD												6"			
REVISIONS		VERTICAL DATUM		VERTICAL DATUM		PLAN CHECK		ENGINEERS		SEAL		ANCHORAGE SEWER UTILITY		CAMPBELL CREEK FORCE MAIN PHASE II	

GRAPHIC SCALE

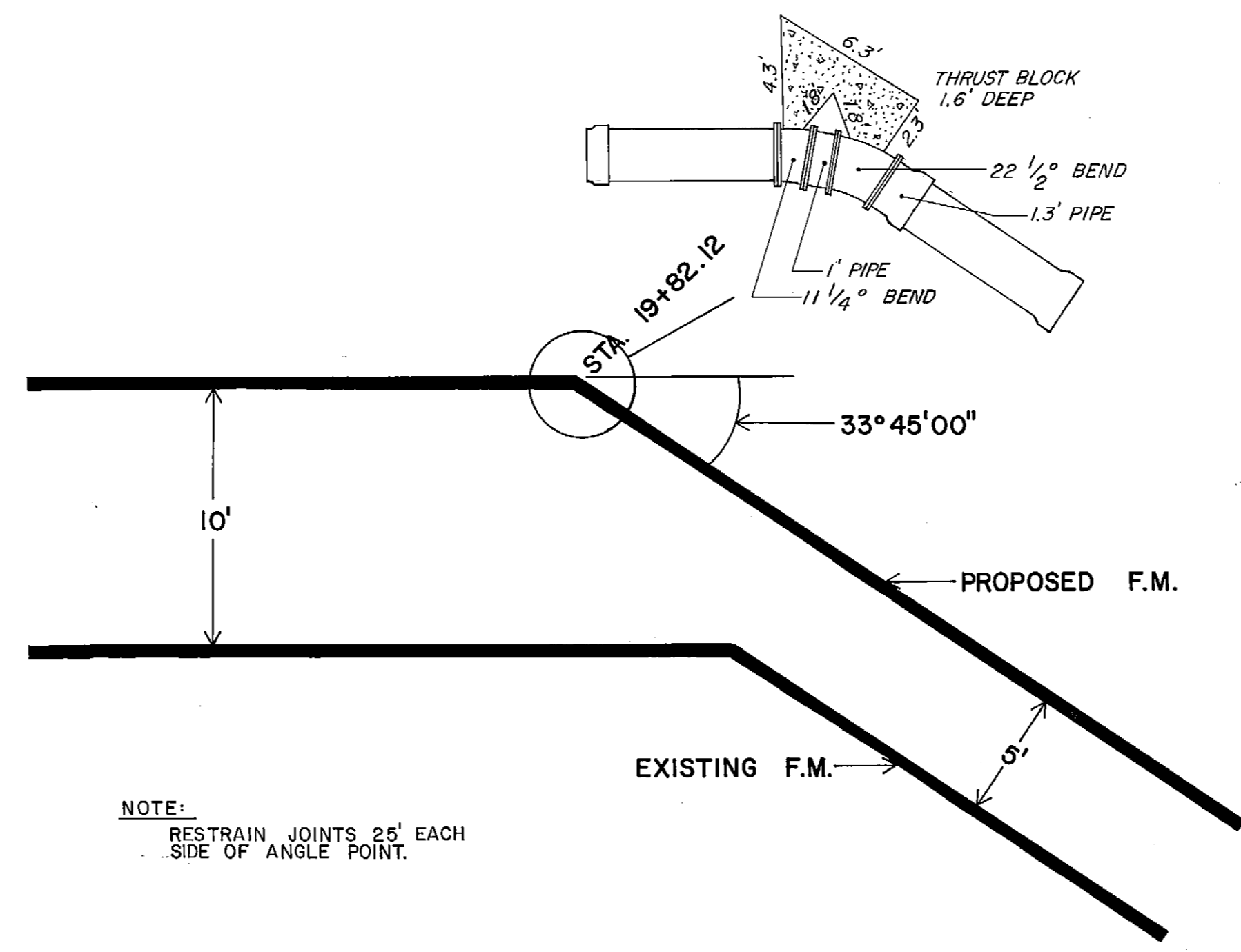
ANCHORAGE SEWER UTILITY
CAMPBELL CREEK FORCE MAIN
PHASE II
NOTES, VICINITY MAP, & STANDARD DETAILS

HOR. 1"=50' DATE 7/18/78 GRID 2425, 2525 SHEET 3 of 8
SCALE VER. 1"=5' SEWER GRID 5231, 5331

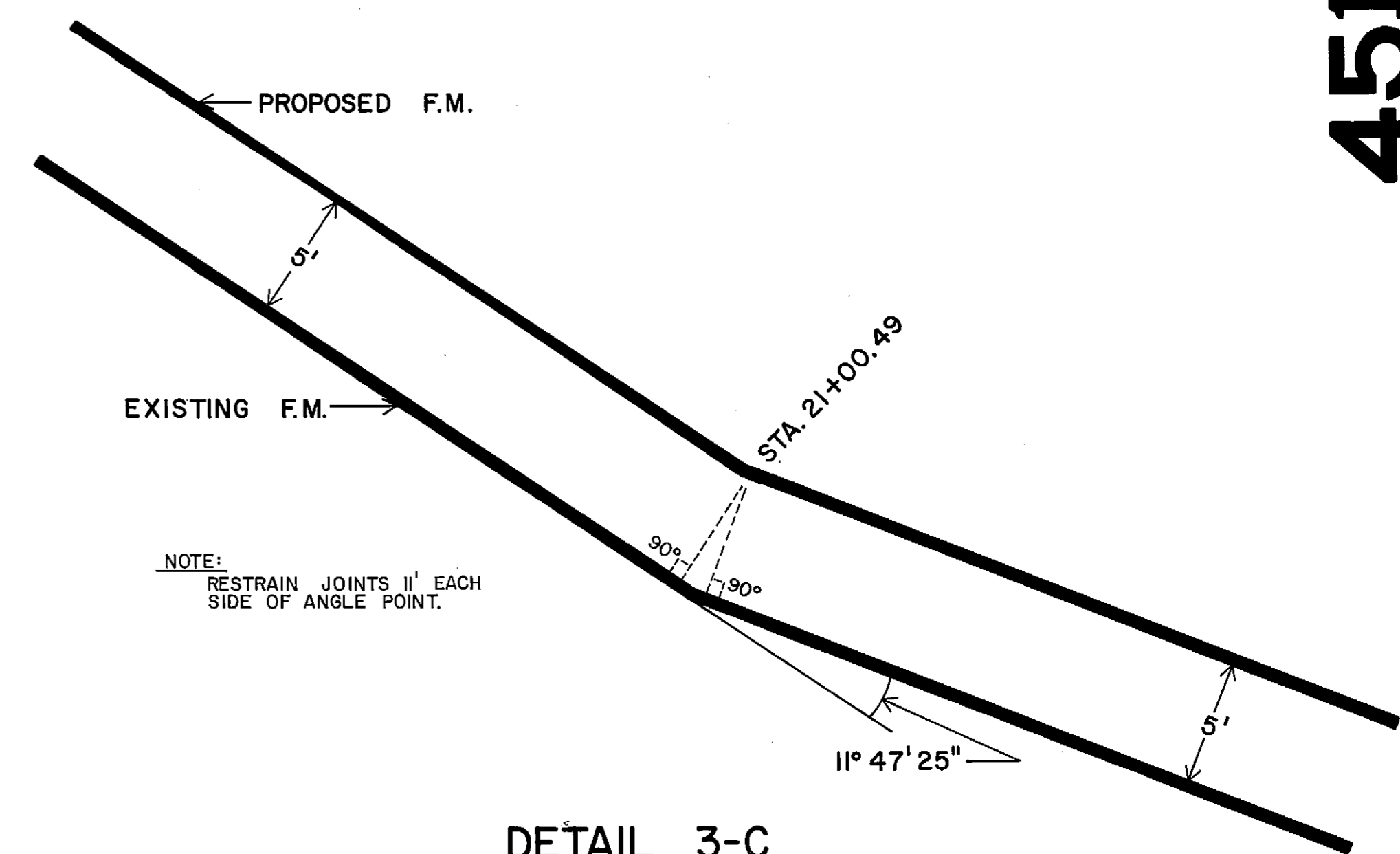
ACCT. NO. 9478-4024-2000



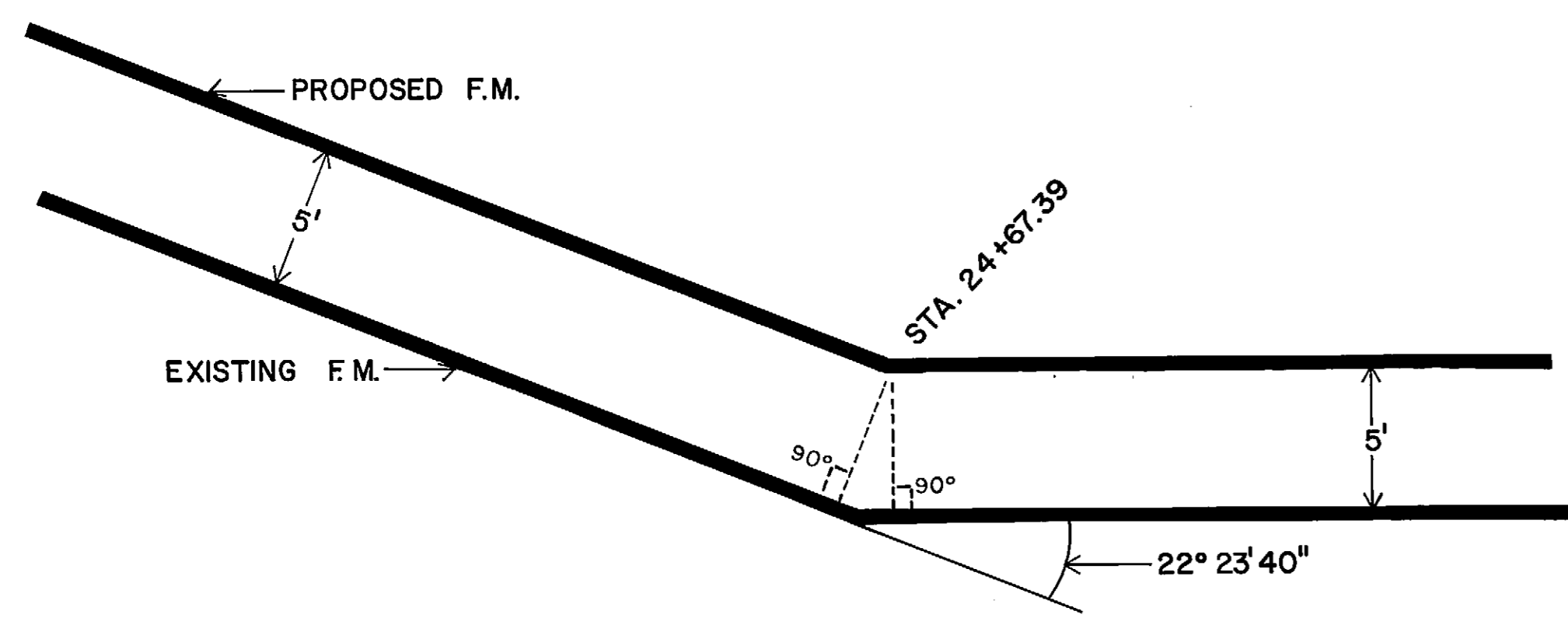
DETAIL 1-A
SCALE: 1" = 5'



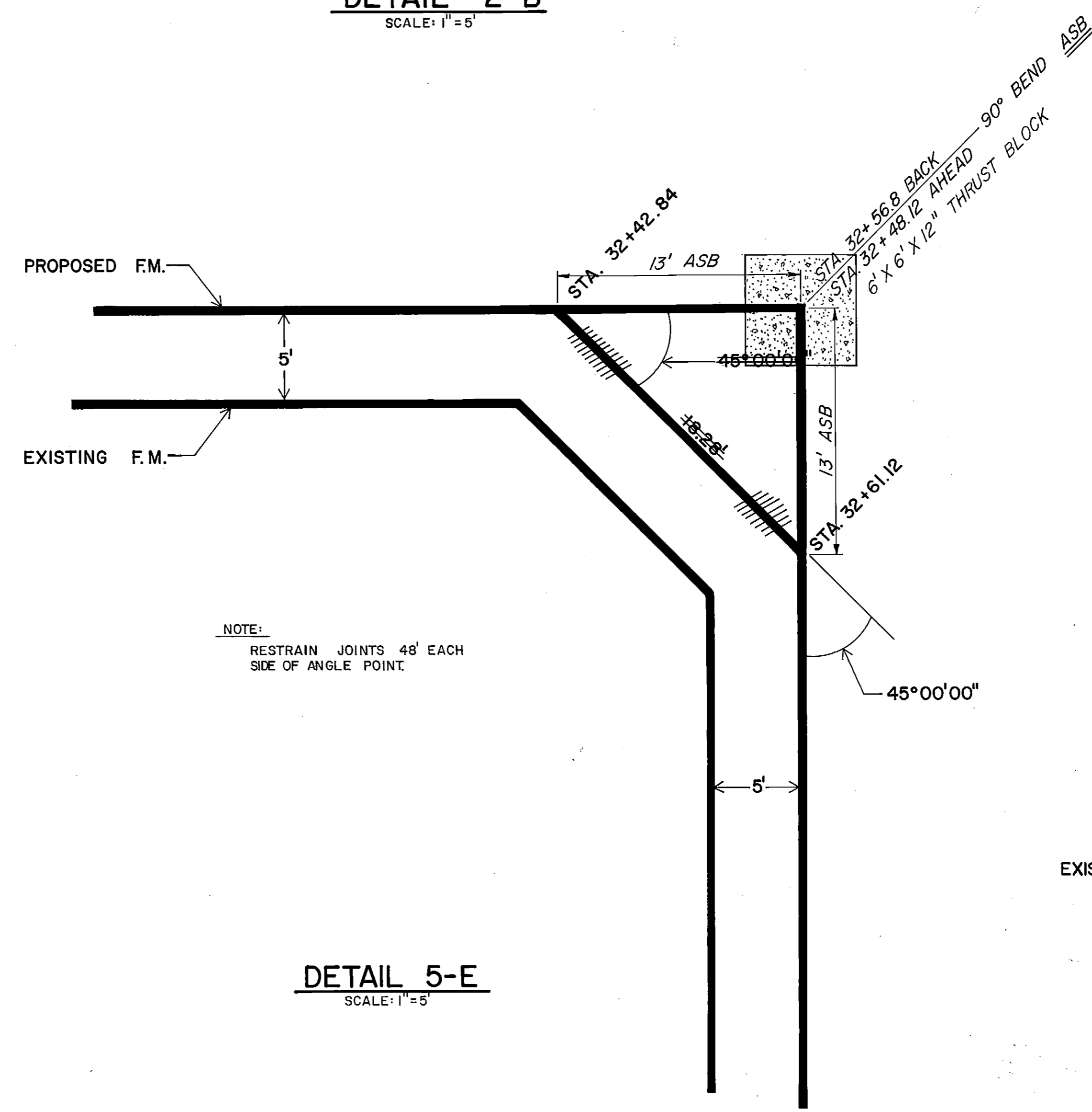
DETAIL 2-B
SCALE: 1" = 5'



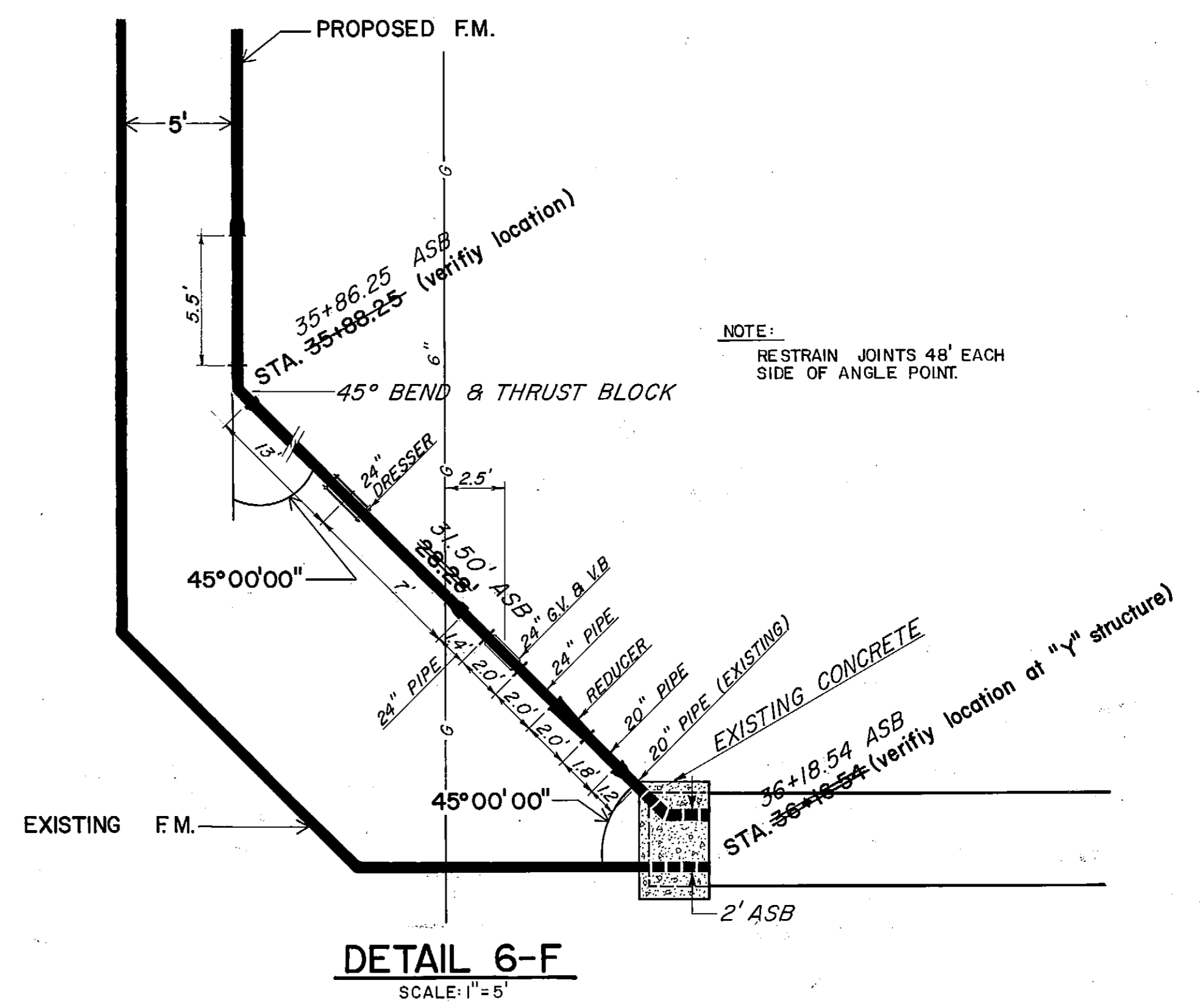
DETAIL 3-C
SCALE: 1" = 5'



DETAIL 4-D
SCALE: 1" = 5'



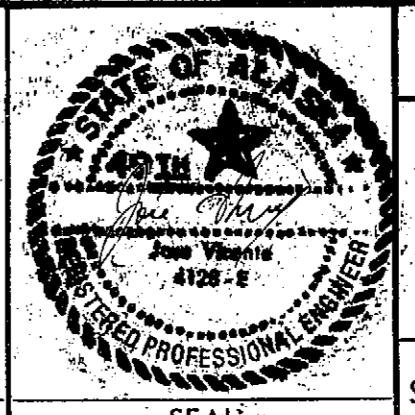
DETAIL 5-E
SCALE: 1" = 5'



DETAIL 6-F
SCALE: 1" = 5'

GRAPHIC SCALE

DESIGN	STAKING	ASBUILT	CONTRACTOR	INSPECTOR	CONSTRUCTION RECORD	REVISIONS	VERTICAL DATUM	VERTICAL DATUM	PLAN CHECK	ENGINEERS	SEAL												
FIELD BOOKS	REV 1	DATE 2-20-79	DESCRIPTION ASBUILT SURVEY NOTES, LEVEL BOOK 310 RECEIVED	BY DCK	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	
			RED-LINED "AS BUILT" CONSTRUCTION DRAWINGS RECEIVED								BASE	TOPO	PROFILE	SAN SEWER	STORM SEWER	WATER	GAS	CC	TELE	DESIGN	QUANTITIES	PRELIM. CHECK	FINAL CHECK



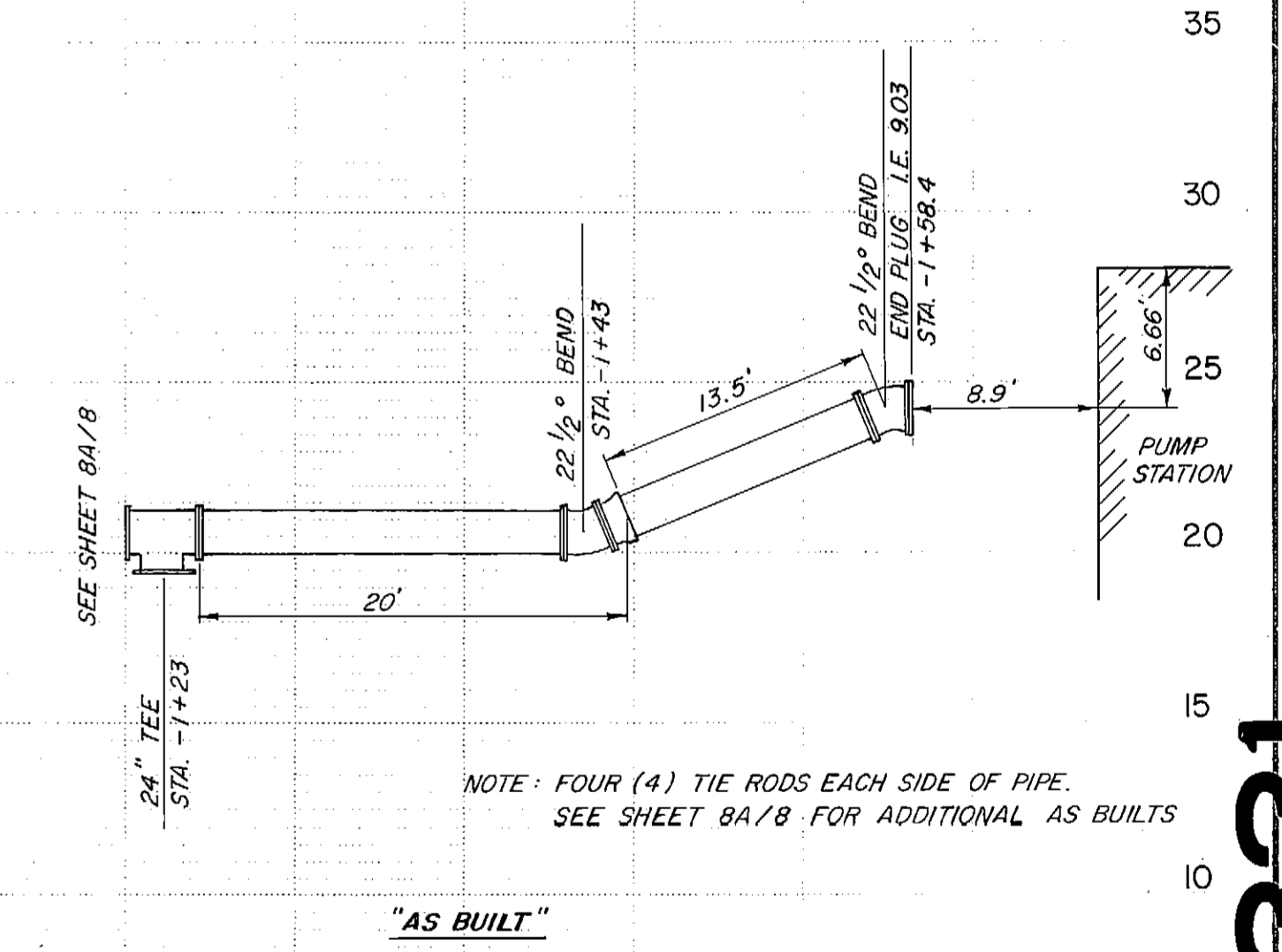
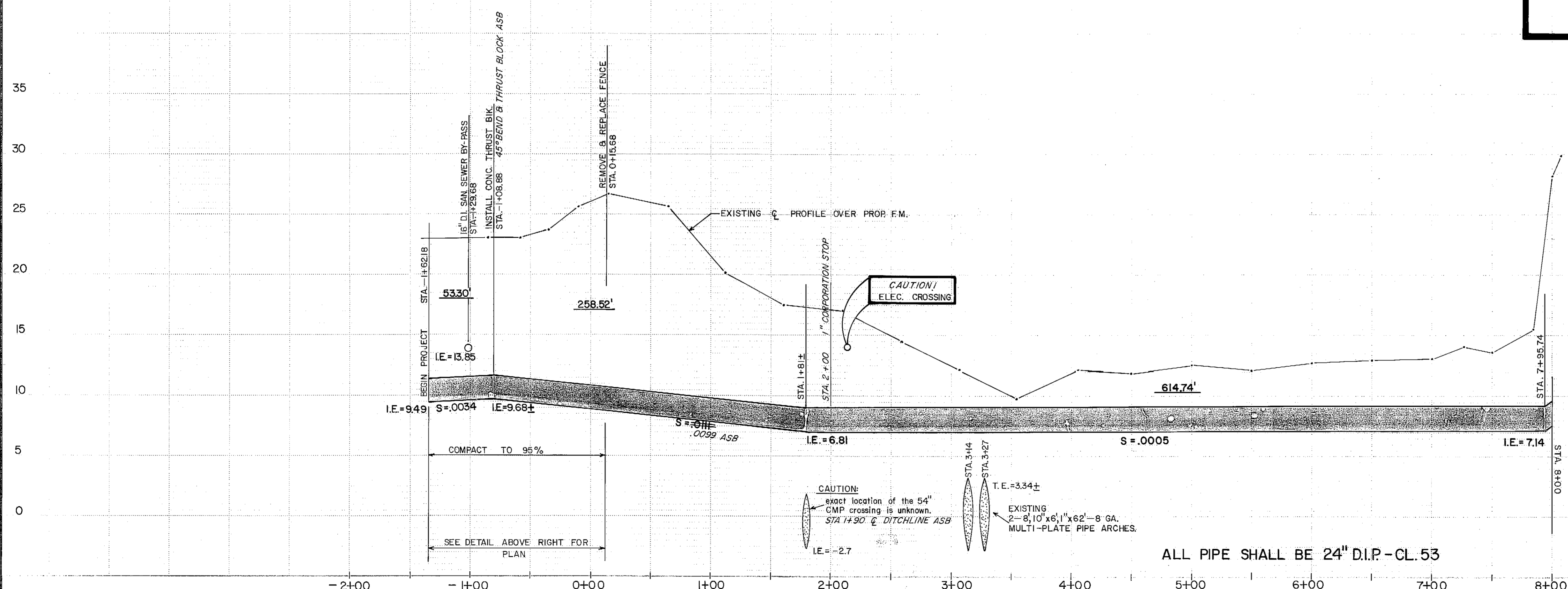
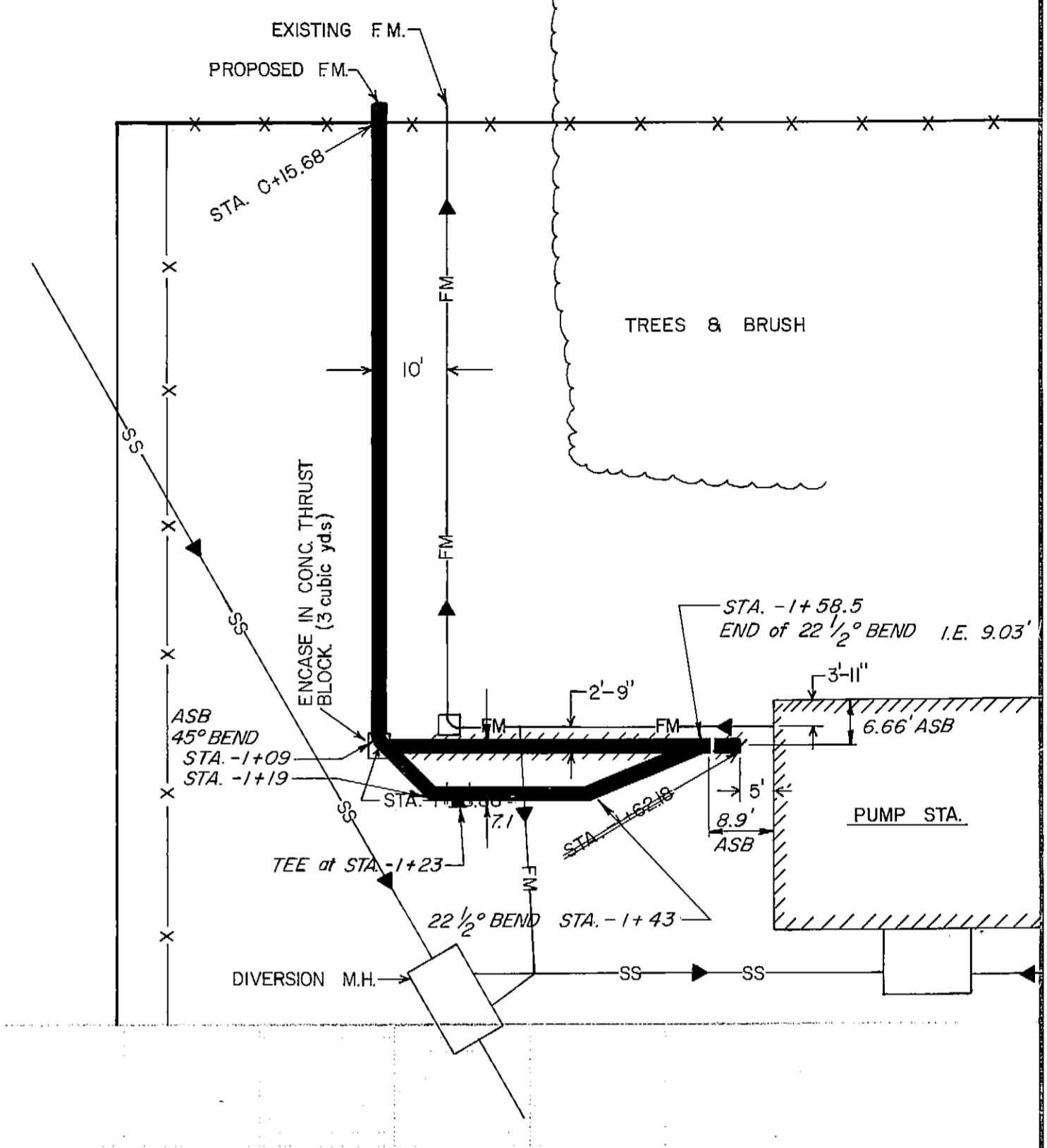
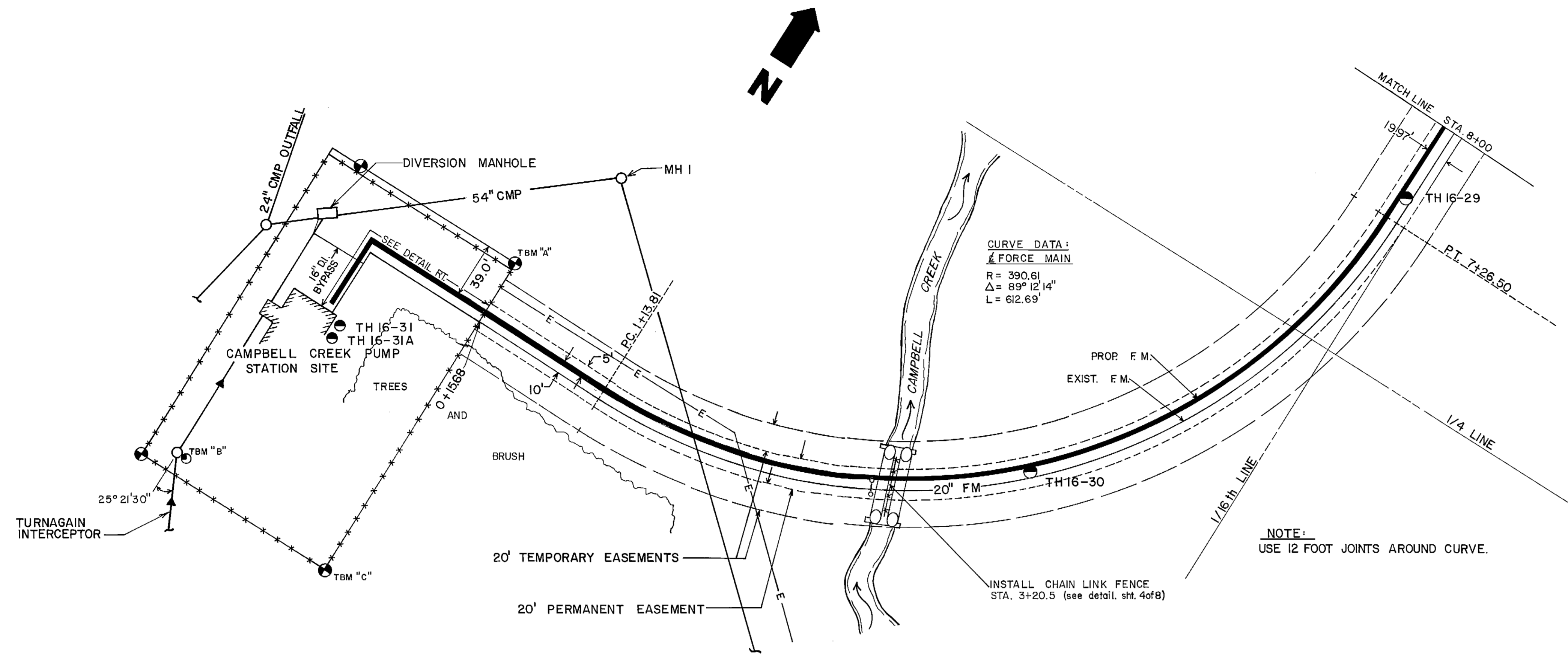
ANCHORAGE SEWER UTILITY
CAMPBELL CREEK FORCE MAIN
PHASE II
PIPE ANGLE - DETAIL SHEET

SCALE: 1" = 5' DATE: 7/18/78 GRID: 2425 SHEET 4 of 8
 SEWER GRID: 5231

ACCT. NO. 9478-4024-2000

DETAIL PLAN FOR STA. -1+62.18 thru 0+15.68

- NOTE:**
1. RESTRAIN JOINTS 53' EACH SIDE OF ANGLE POINT AT STA. -1+08.88.
 2. MATCH GRADE TO EXIST. WALL SLEEVE IN PUMP STA. & CONFIRM LOCATION OF EXIST. F.M. FROM STA. -1+08.88 THRU -1+62.18 & MATCH GRADES.
 3. WARNING! CONSTRUCTION OF NEW FORCE MAIN MAY UNDERMINE SUPPORT TO EXISTING THRUST BLOCK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THE EXISTING THRUST BLOCK.



ALL PIPE SHALL BE 24" D.I.P.-CL. 53

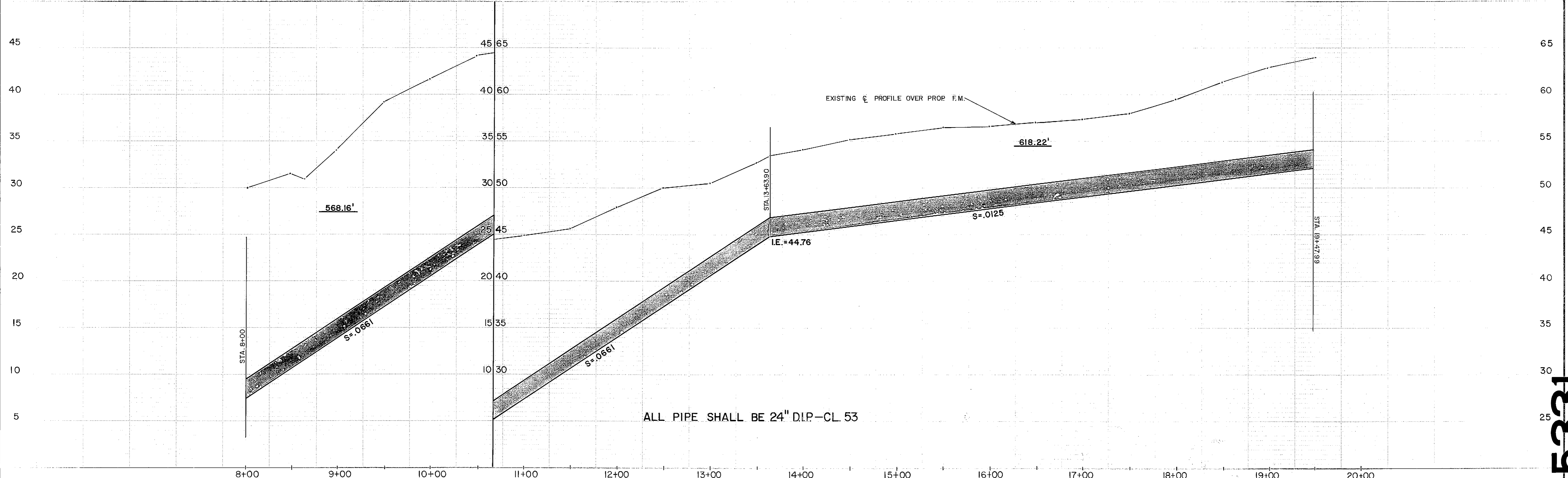
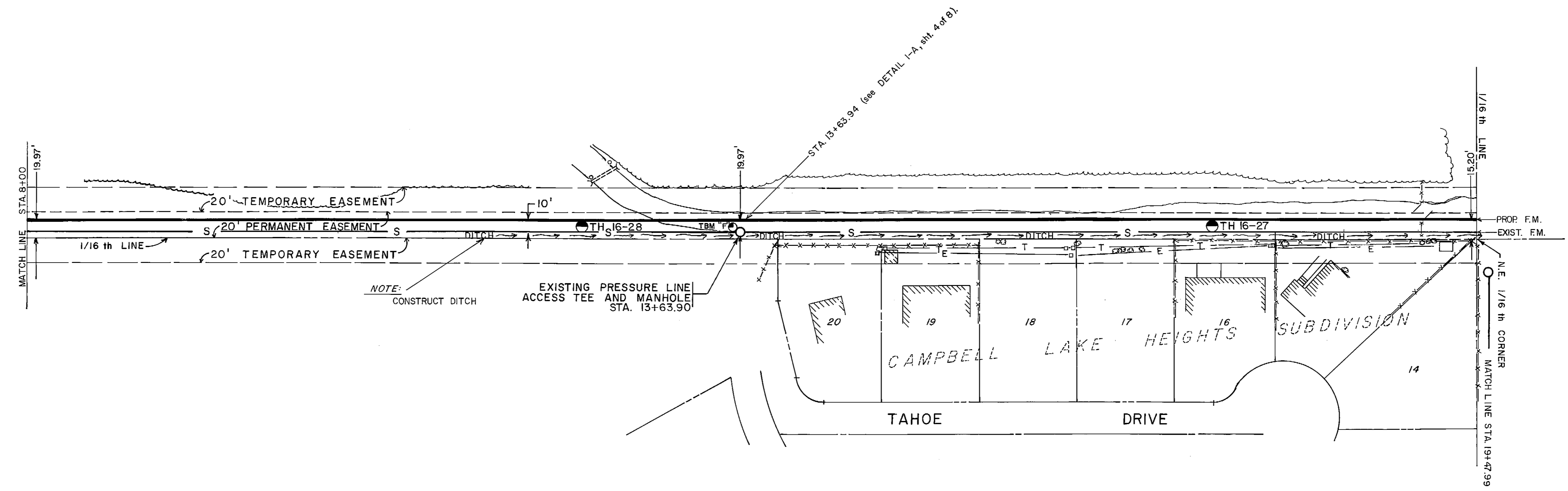
FIELD BOOKS		REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	DWN	CKD	ST	DATA	CC	DWN	CKD	ST
DESIGN	MUNICIPALITY F.B. # 1481	1	8/3/78	ADDED PIPE FROM STA. 0+15.68 THRU -1+62.18	C R C	"A"	TOP B.C. NE COR. OF CAMPBELL CK. PUMP STA. TRACK.	19.53				BASE	CC	CC	CC	TELE	CC			
STAKING	3/23/78	2	8/21/78	NOTE NO. 3 IN DETAIL PLAN & 95% COMPACTION INSIDE PUMP STA. SITE		"B"	N. RIM MH. STA. -1304 PG. 9.	22.80				TOPO	CC	CC	CC	ELEC	CC			
		3		16" D.I. BYPASS INSIDE SITE PLAN STA. -1+29.68		"C"	B.C. SE COR. OF CAMPBELL CK. PUMP STA. TRACK.	34.95				PROFILE	CC	CC	CC	DESIGN	CC			
		4	2-20-79	AS BUILT SURVEY NOTES, LEVEL BOOK 310 RECEIVED								SAN SEWER	CC	CC	CC	QUANTITIES	CC			
AS BUILT	2-20-79			RED-LINED "AS BUILT" CONSTRUCTION DRAWINGS RECEIVED	DCK							STORM SEWER	CC	CC	CC	PRELIM. CHECK	CC			
CONTRACTOR	TAM CONSTRUCTION											WATER	CC	CC	CC	FINAL CHECK	CC			
INSPECTOR	H.E. ALARIE											GAS	CC	CC	CC		CC			
CONSTRUCTION RECORD																				



ANCHORAGE SEWER UTILITY
CAMPBELL CREEK FORCE MAIN
PHASE II
PLAN AND PROFILE

SCALE: HOR. 1"=50' VER. 1"=5'
 DATE: 7/18/78
 GRID: 2525
 SHEET: 5 of 8

ACCT. NO. 9478-4024-2000

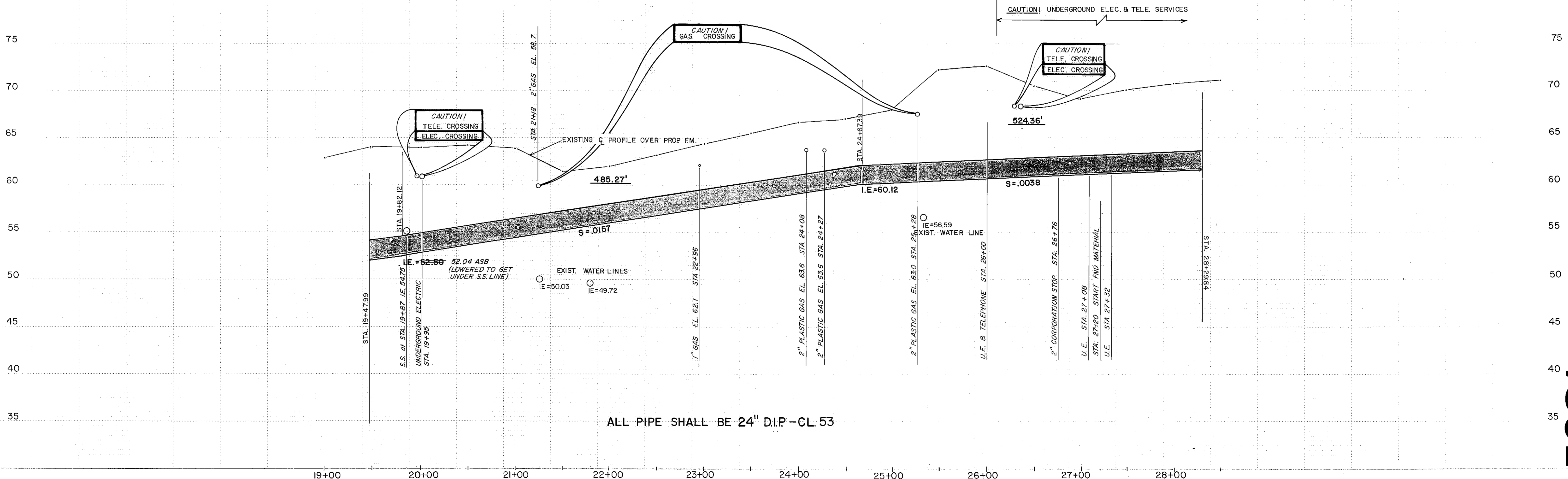
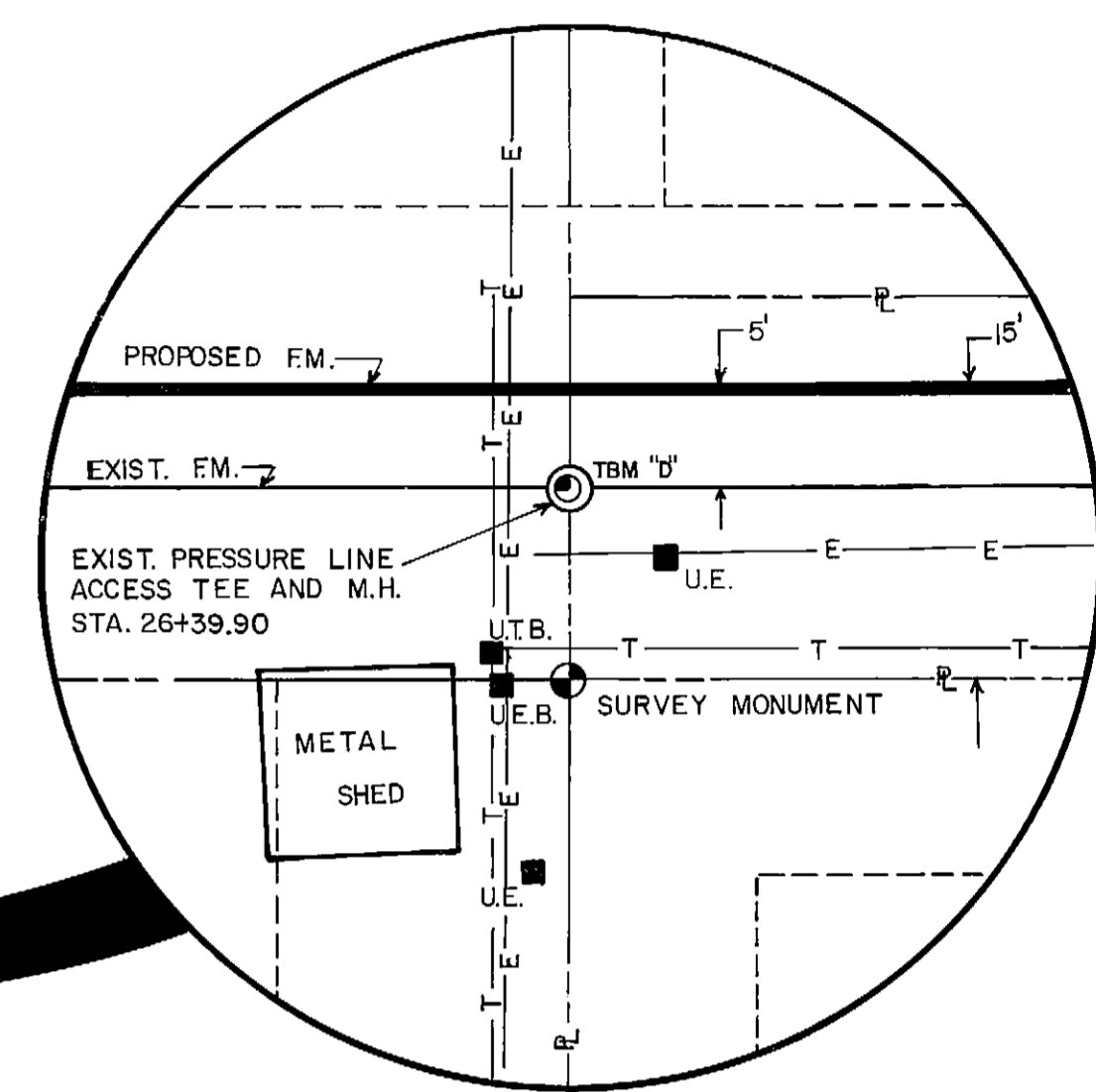
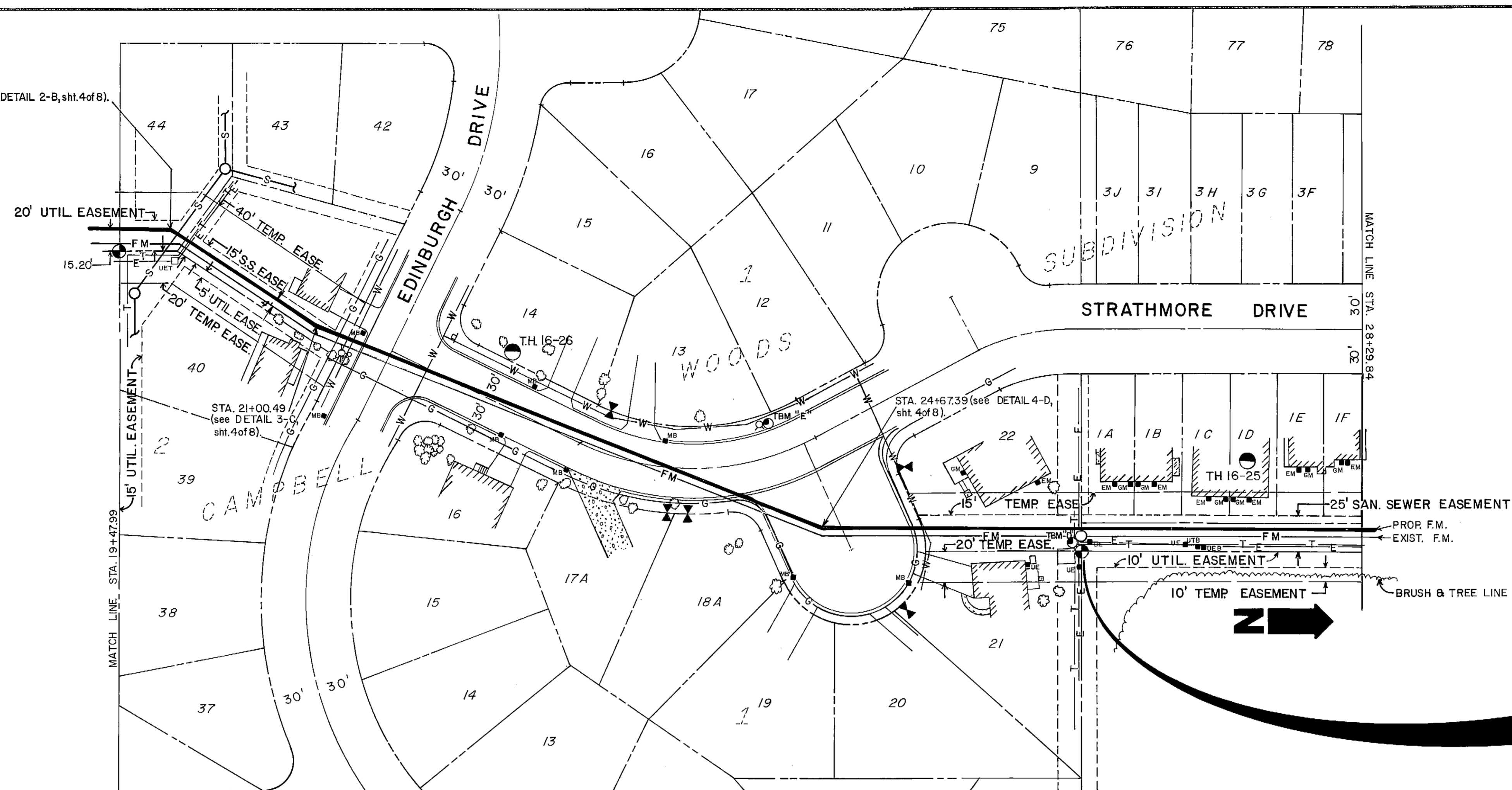


FIELD BOOKS		REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	DWN BY	DATE	DWN BY	DATE
MUNICIPALITY F.B.# 1481		1	2-20-79	AS BUILT SURVEY NOTES, LEVEL BOOK 310 RECEIVED	DKK	"F"	N RIM M.H. STA. 13+63.90	53.61				BASE	JS	TELE	JS	
3/23/78				RED-LINED "AS BUILT" CONSTRUCTION DRAWINGS RECEIVED								TOPO	JS	ELEC	JS	
												PROFILE	CC	DESIGN	JS	
												SAN SEWER	JS	QUANTITIES	JS	
												STORM SEWER	JS	PRELIM. CHECK		
												WATER	JS	FINAL CHECK		
												GAS	JS			

ASBUILT	2-20-79															
CONTRACTOR	TAM CONSTRUCTION															
INSPECTOR	H.E. ALARIE															
CONSTRUCTION RECORD				REVISIONS			VERTICAL DATUM			VERTICAL DATUM			PLAN CHECK		ENGINEERS	SEAL

				ANCHORAGE SEWER UTILITY CAMPBELL CREEK FORCE MAIN PHASE II PLAN AND PROFILE			
SCALE	HOR. 1"=50'	DATE	7/18/78	GRID	2525	SHEET	6 of 8
	VER. 1"=5'			SEWER GRID	5331		

STA. 19+82.12 (see DETAIL 2-B, sht. 4 of 8)

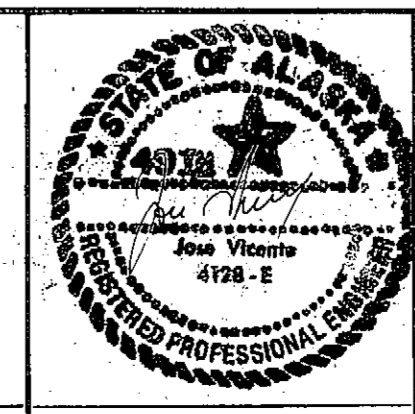


ALL PIPE SHALL BE 24" D.I.P -CL 53

19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00

GRAPHIC SCALE

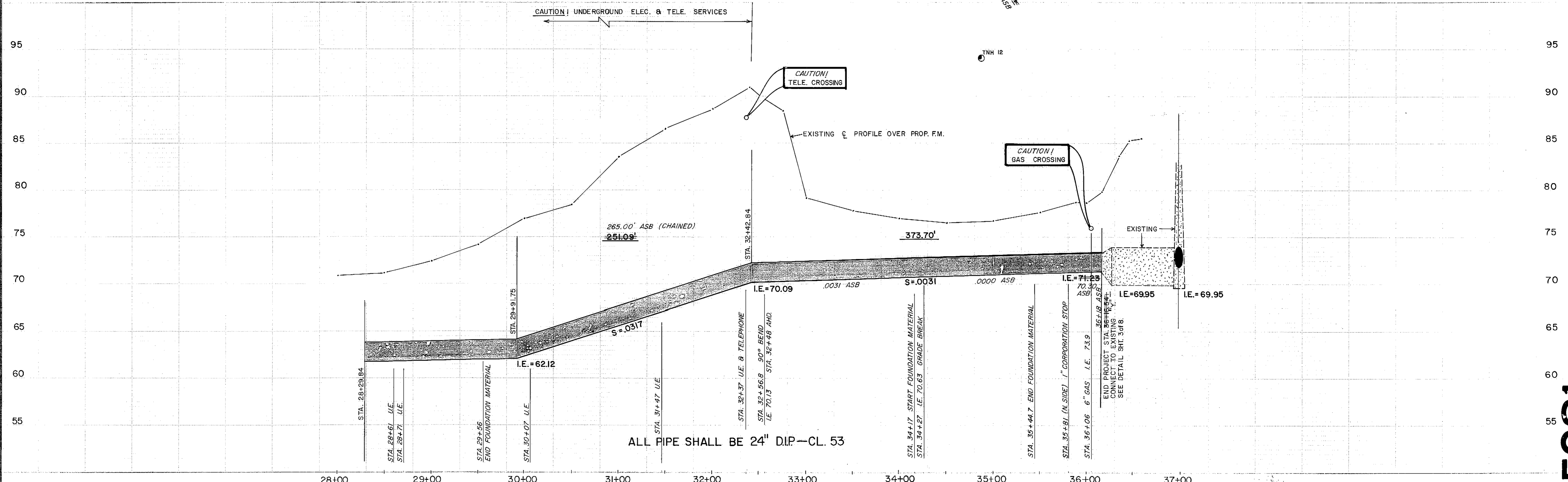
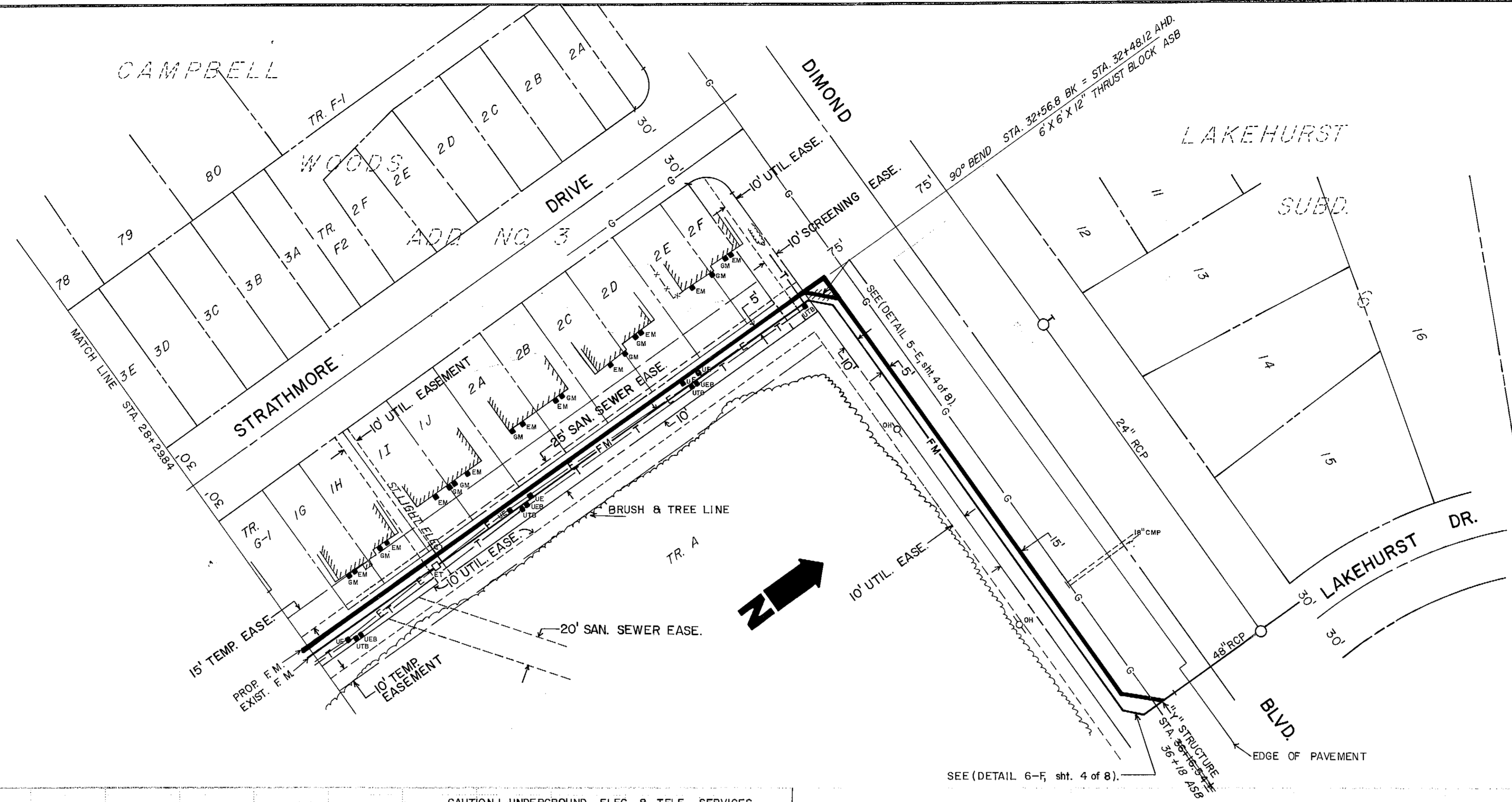
FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	DWN BY	CHK BY	DATA	DWN BY	CHK BY
MUNICIPALITY F.B. # 1481	1	2-20-79	ASBUILT SURVEY NOTES, LEVEL BOOK 310 REC'D	DCK	"D"	N RIM M.H. STA. 26+39.90	72.00				BASE	CC	CC	TELE	CC	CC
3/23/78			RED-LINED ASBUILT CONSTRUCTION DRAWINGS REC'D		"E"	N BOLT HYD. AT SE END HOUSE #3430, STRATHMORE ACROSS FROM CUL-DE-SAC	70.41				TOPO	CC	CC	ELEC	CC	CC
											PROFILE	CC	CC	DESIGN	CC	CC
											SAN SEWER	CC	CC	QUANTITIES	CC	CC
											STORM SEWER	CC	CC	PRELIM. CHECK		
											WATER	CC	CC	FINAL CHECK		
											GAS	CC	CC			
														PLAN CHECK		



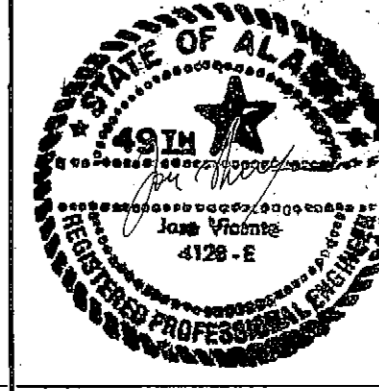
ANCHORAGE SEWER UTILITY
CAMPBELL CREEK FORCE MAIN
PHASE II
PLAN AND PROFILE

HOR. 1"=50' DATE 7/18/78 GRID 2425 SHEET 7 of 8
 VER. 1"=5' SEWER GRID 5231

ACCT. NO. 9478-4024-2000



FIELD BOOKS		REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	OWN	CD	BY	DATA	OWN	CD	BY	
MUNICIPALITY F.R. # 1481		1	2-21-79	AS BUILT SURVEY NOTES, LEVEL BOOK 310 REC'D		TNH 12	BEGINNING AT W DIMOND & JEWEL					BASE	C.C.			TELE	C.C.			
3/23/78				RED-LINED "AS BUILT" CONSTRUCTION DRAWINGS RECEIVED	DCK		LAKE RD'S THENCE EASTERLY 190'					TOPO	C.C.			ELEC	C.C.			
ASBUILT 2-21-79							ALONG C OF DIMOND & 60 SOUTH,	83.04				PROFILE	C.C.			DESIGN	C.C.			
CONTRACTOR TAM CONSTRUCTION							2.2' N OF PP SL 75, D187, A60.					SAN SEWER	C.C.			QUANTITIES	C.C.			
INSPECTOR H. E. ALARIE												STORM SEWER	C.C.			PRELIM. CHECK	C.C.			
CONSTRUCTION RECORD												WATER	C.C.			FINAL CHECK	C.C.			
												GAS	C.C.							



ANCHORAGE SEWER UTILITY
 CAMPBELL CREEK FORCE MAIN
 PHASE II
 PLAN AND PROFILE

SCALE: HOR. 1"=50', VER. 1"=5'

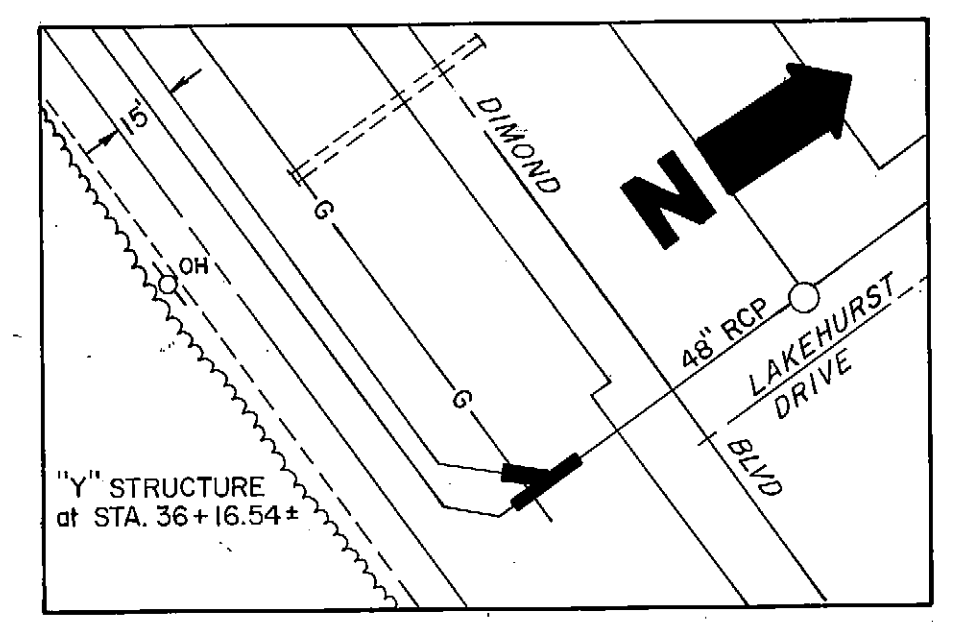
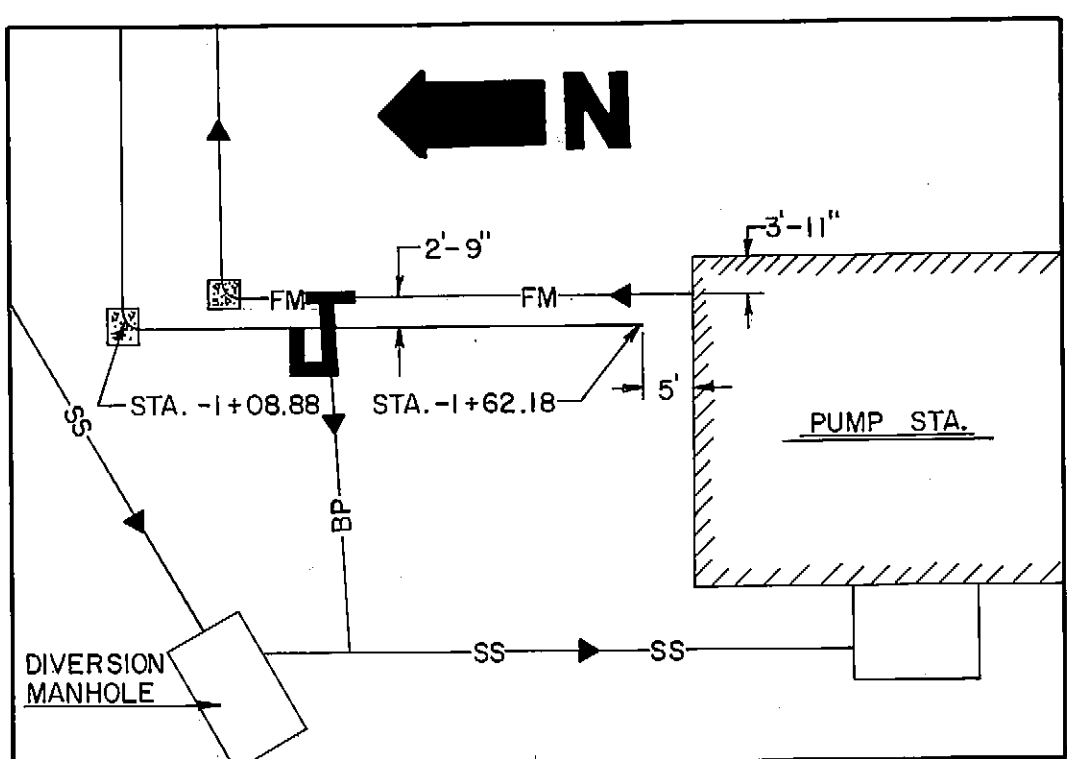
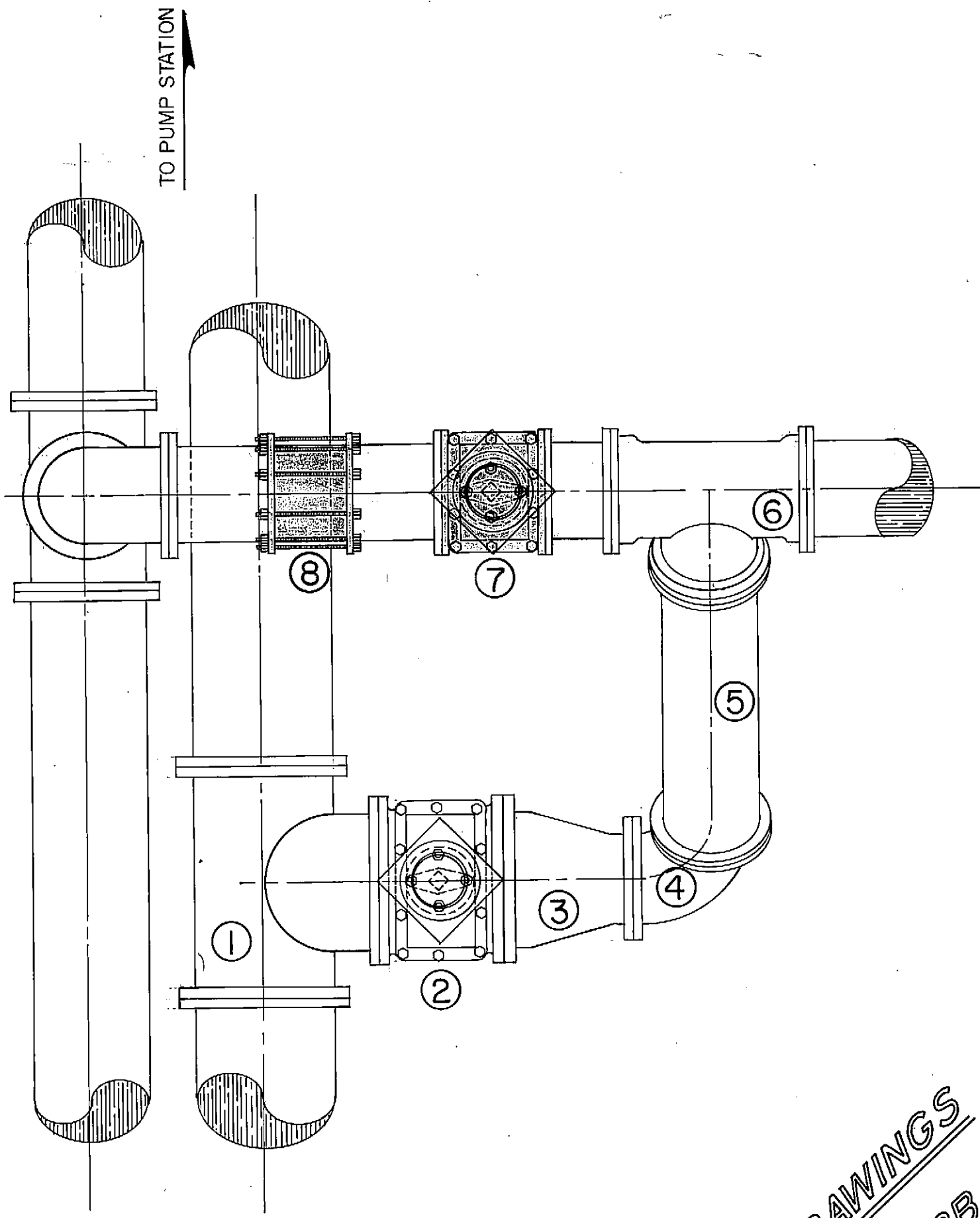
DATE 7/18/78

GRID 2425

SEWER GRID 5231

SHEET 8 of 8

ACCT. NO. 9478-4024-2000



LIST OF MATERIALS (APPROXIMATE)

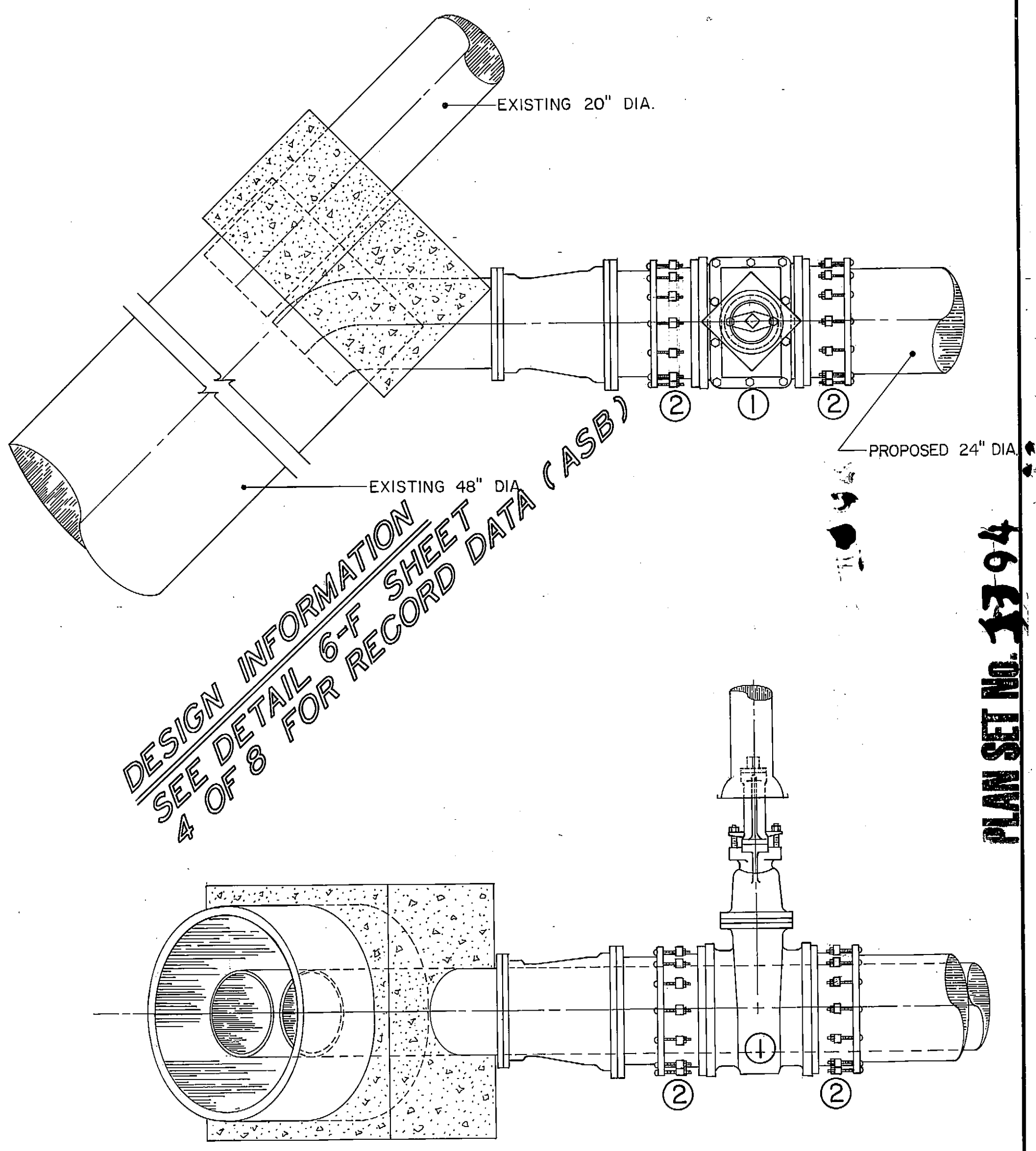
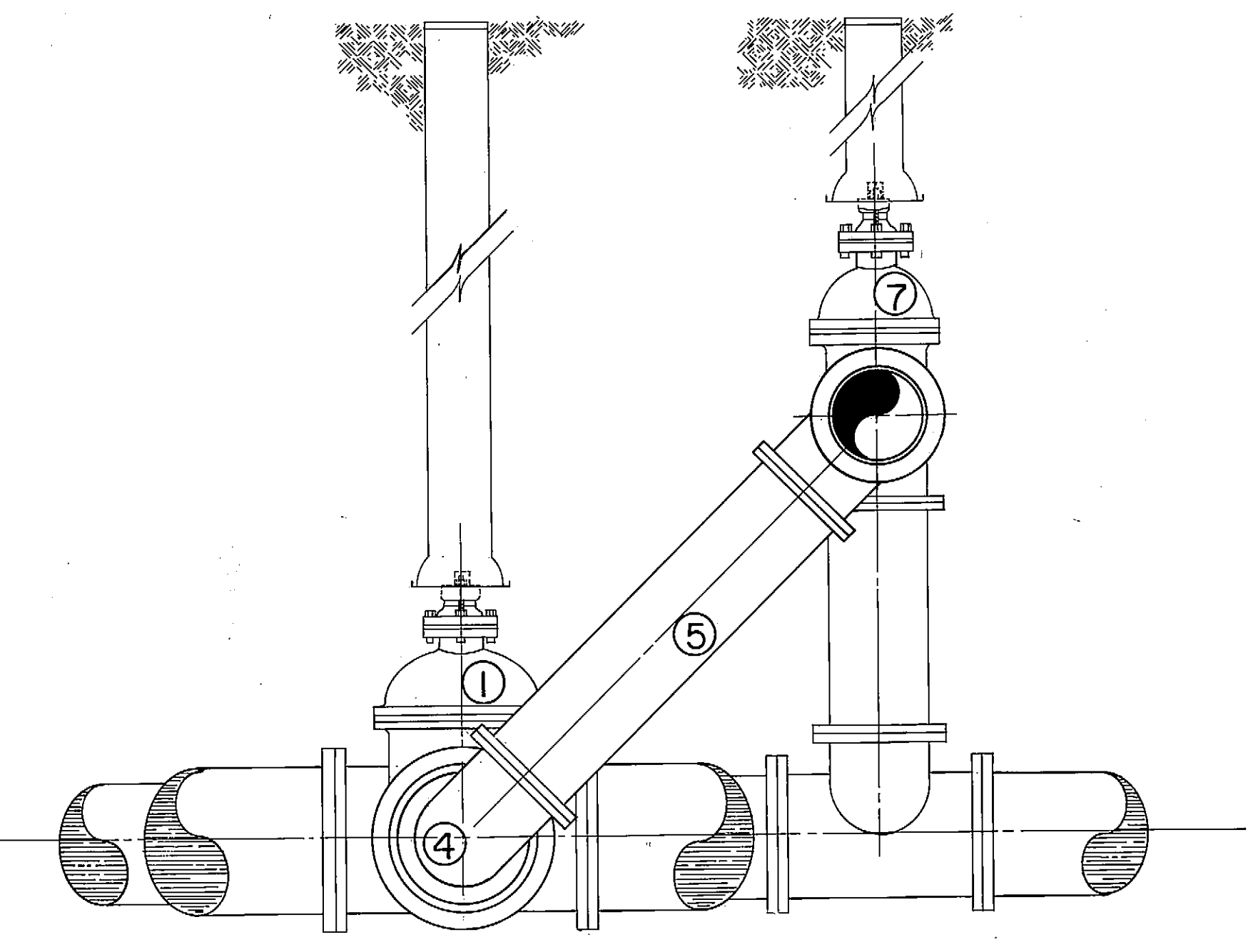
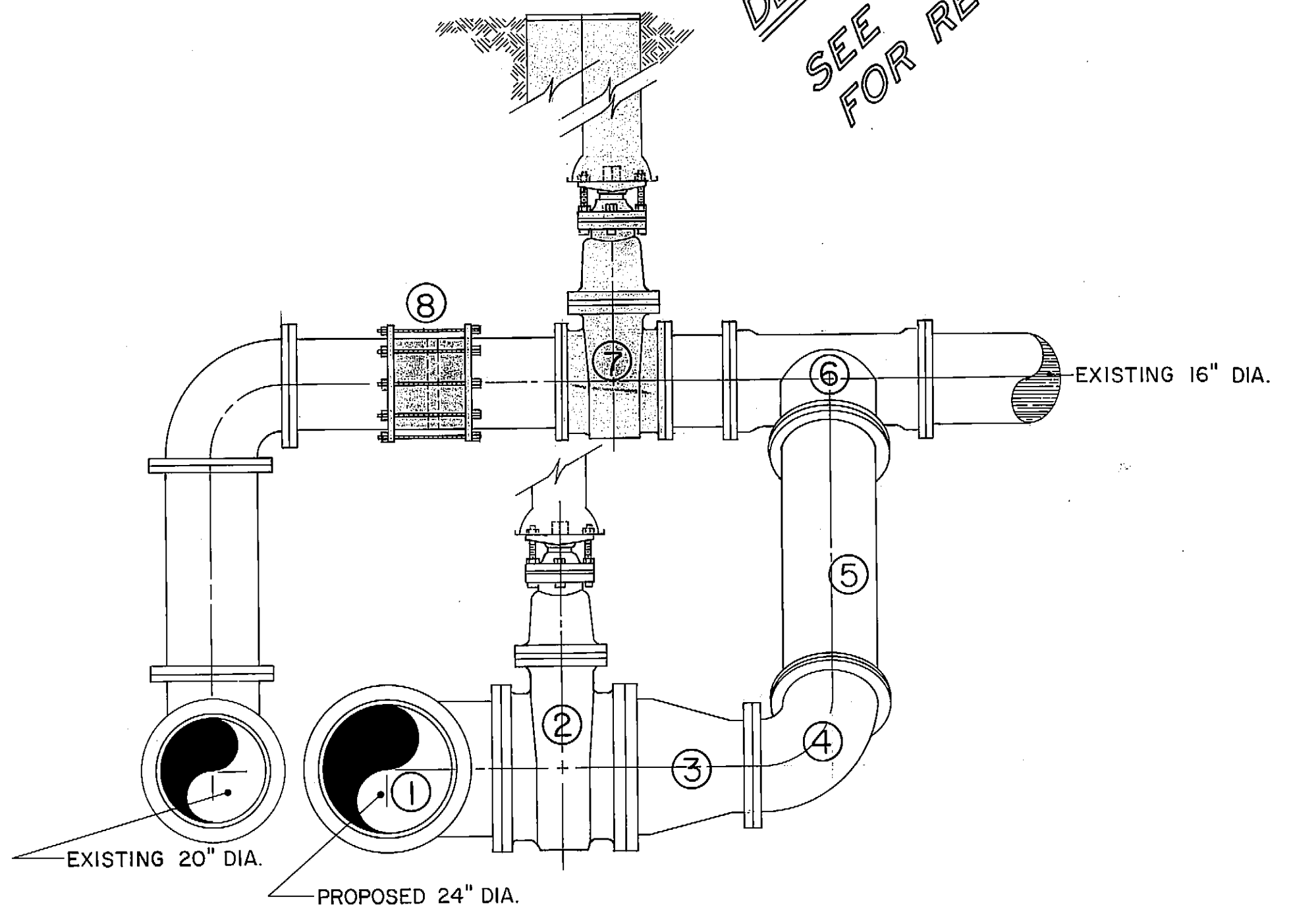
ITEM	QUAN.	DESCRIPTION
1	1	24" x 24" TEE MJ/MJ/FL
2	1	24" GATE VALVE & VALVE BOX FL
3	1	24" x 16" REDUCER FL/FL MJ (AsB)
4	1	16" 90° ELBOW FL/MJ MJ/MJ (AsB)
5	1	16" PE x PE D.I. PIPE (approx. 10' depending on field conditions)
6	1	16" x 16" TEE MJ/MJ/MJ
7	1	16" GATE VALVE & VALVE BOX MJ
8	1	16" SMITH BLAIR COUPLING 411-1740

LIST OF MATERIALS (APPROXIMATE)

ITEM	QUAN.	DESCRIPTION
1	1	24" GATE VALVE & VALVE BOX FL
2	2	24" SMITH BLAIR COUPLING 913-2580

NOTE: All fittings are to include nuts, bolts, and gaskets.

DESIGN DRAWINGS
SEE SHEET 8B OF 8
FOR RECORD DATA



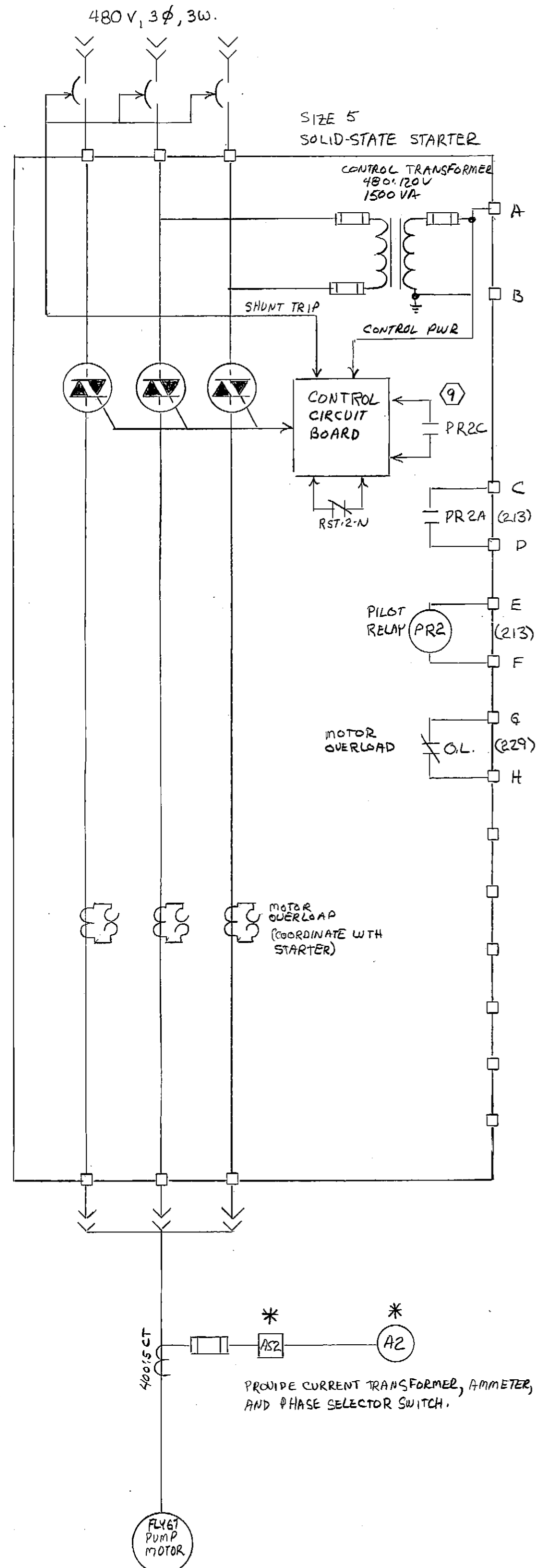
24" FORCE MAIN BYPASS
SCALE 1/2" = 1'-0"

24" FORCE MAIN OUTLET VALVE
SCALE 1/2" = 1'-0"

DESIGN INFORMATION
SEE DETAIL 6-F SHEET
4 OF 8 FOR RECORD DATA (ASB)

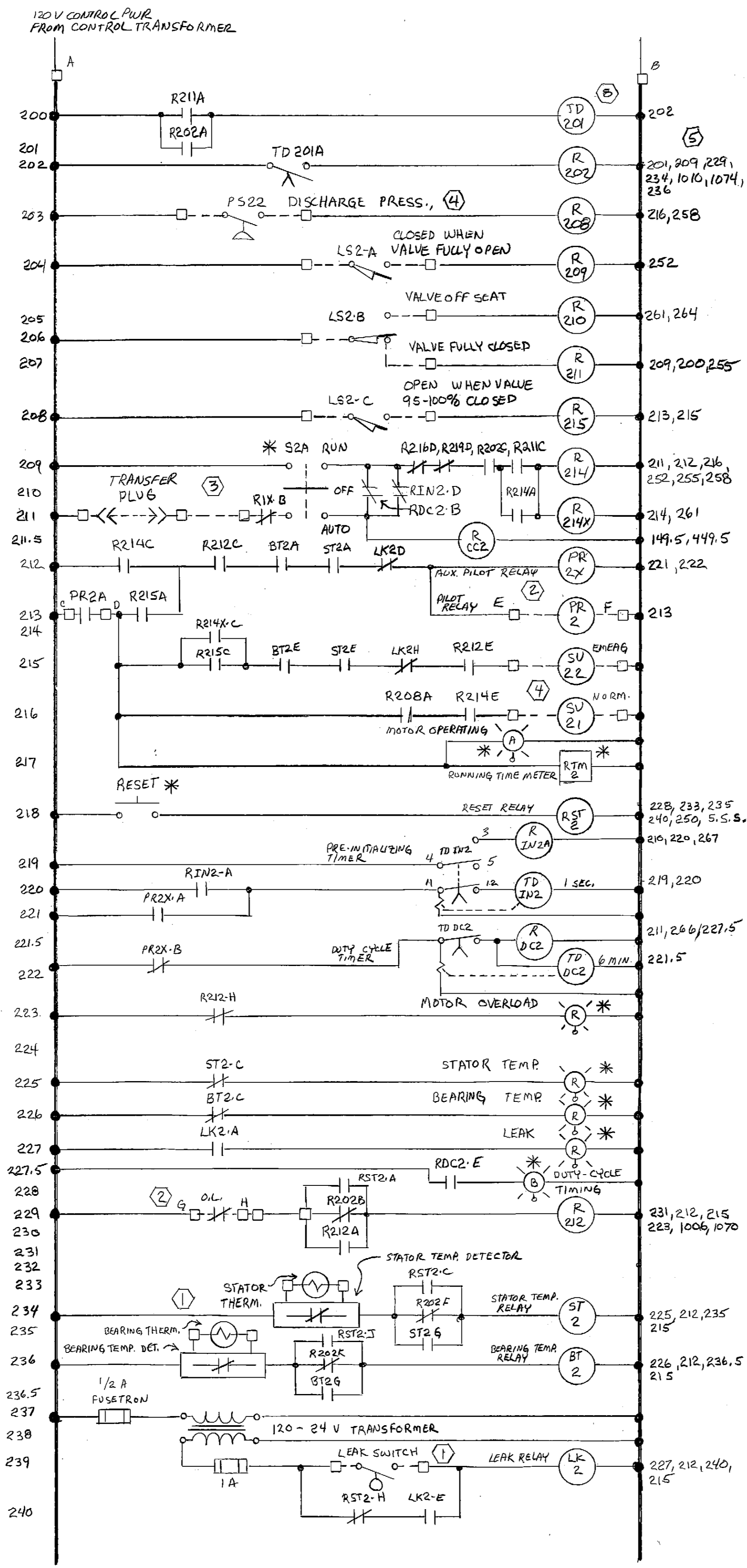
PLAN SET NO. 1394

GRAPHIC SCALE												ANCHORAGE SEWER UTILITY CAMPBELL CREEK FORCE MAIN PHASE II FORCE MAIN BYPASS & OUTLET VALVE		
FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION			ELEV.	DATA	DWN/CKD
DESIGN											BASE		TELE	
STAKING											TOPO		ELEC	
ASBUILT											PROFILE		DESIGN	DK MK
CONTRACTOR											SAN SEWER		QUANTITIES	
INSPECTOR											STORM SEWER		PRELIM. CHECK	DK MK
CONSTRUCTION RECORD											WATER		FINAL CHECK	DK JV
			REVISIONS			VERTICAL DATUM			VERTICAL DATUM				PLAN CHECK	
										ENGINEERS		SEAL		SCALE HOR. 1"=50' VER. 1"=5' DATE 10/19/78 GRID 2425 SHEET 8A of 8 SEWER GRID 5231 ACCT. NO.

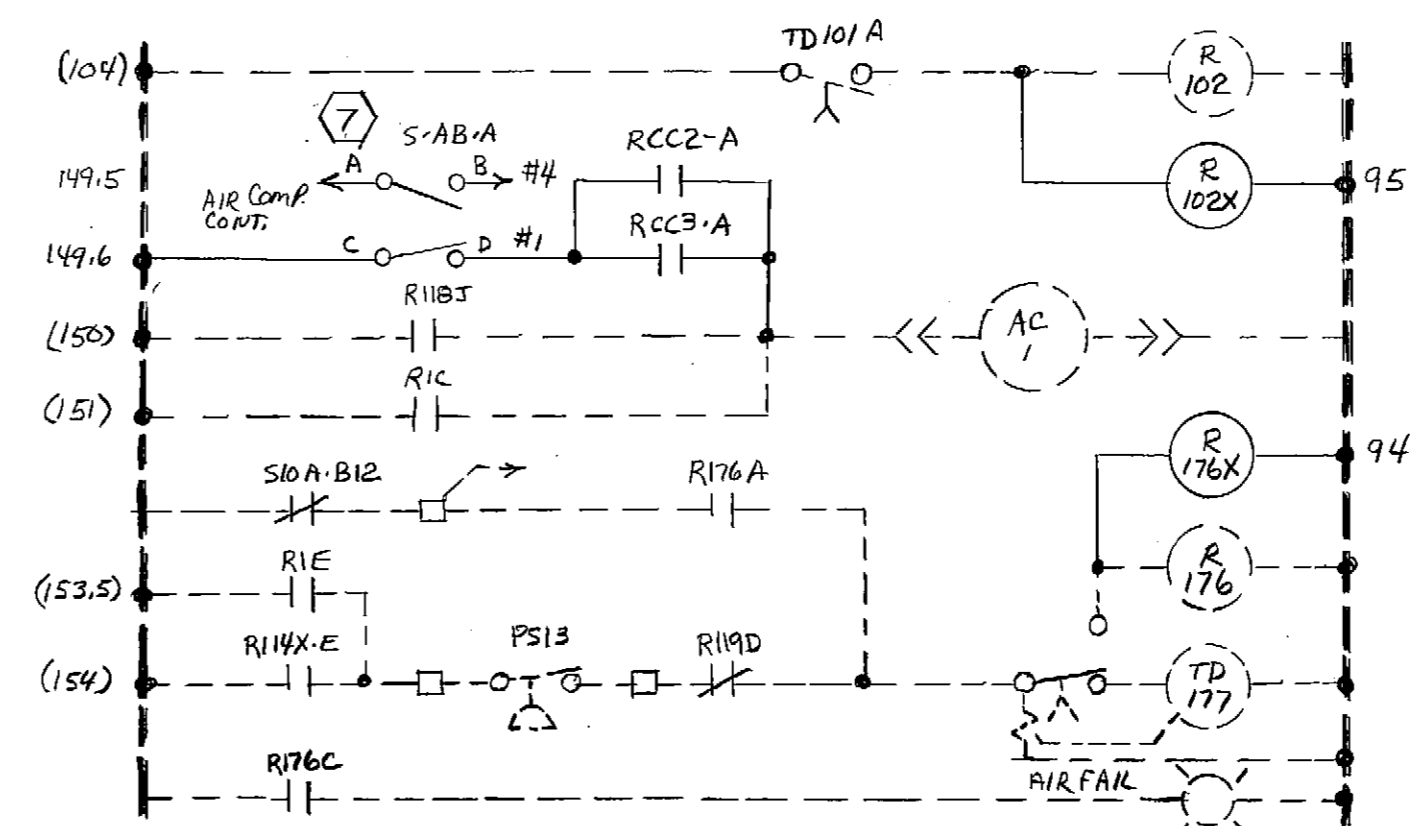


TYPICAL SOLID-STATE MOTOR STARTER.
PUMP #2 SHOWN. NUMBERING FOR
PUMP #3 WILL BE WITH A "3"

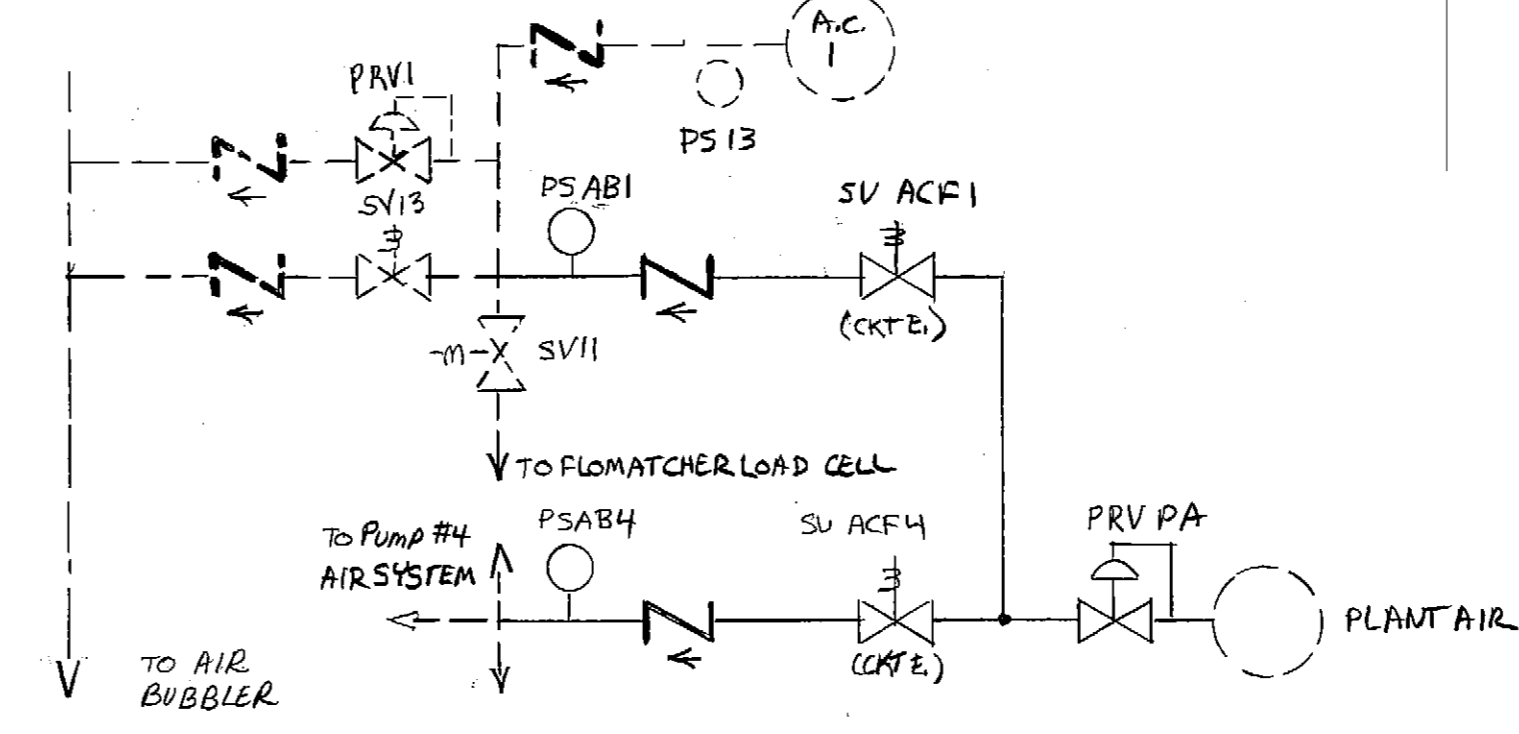
PROVIDE CURRENT TRANSFORMER, AMMETER,
AND PHASE SELECTOR SWITCH.



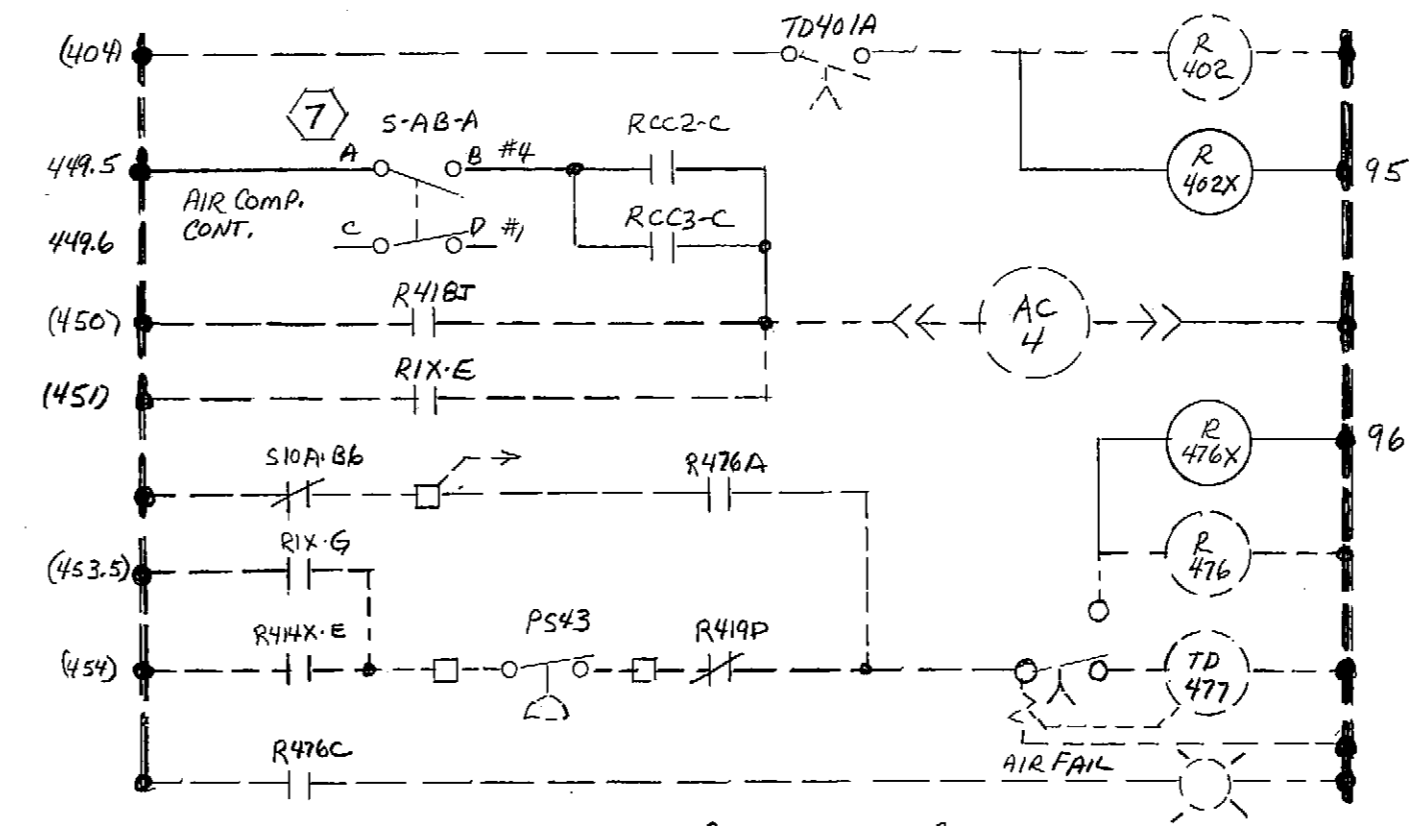
TYPICAL PUMP MOTOR CONTROL CIRCUIT. A.
PUMP #2 SHOWN. PUMP #3 WILL BE SIMILAR EXCEPT
DEVICES WILL BE NUMBERED WITH A "3". LOCATE IN
COMMON ENCLOSURE WITH SOLID-STATE STARTER AND ALARM
CIRCUIT B.



PARTIAL SCHEMATIC, EXISTING PUMP #1 AIR COMPRESSOR CIRCUIT.
CIRCUIT C. EXISTING CIRCUITS & DEVICES SHOWN DASHED. ADD THOSE
SHOWN SOLID. SEE FLOMATCHER DWG. C-11880 FOR ADDITIONAL DETAIL.
SEE CIRCUIT E, SHEET E3, FOR R102X AND R176X CONTACTS.

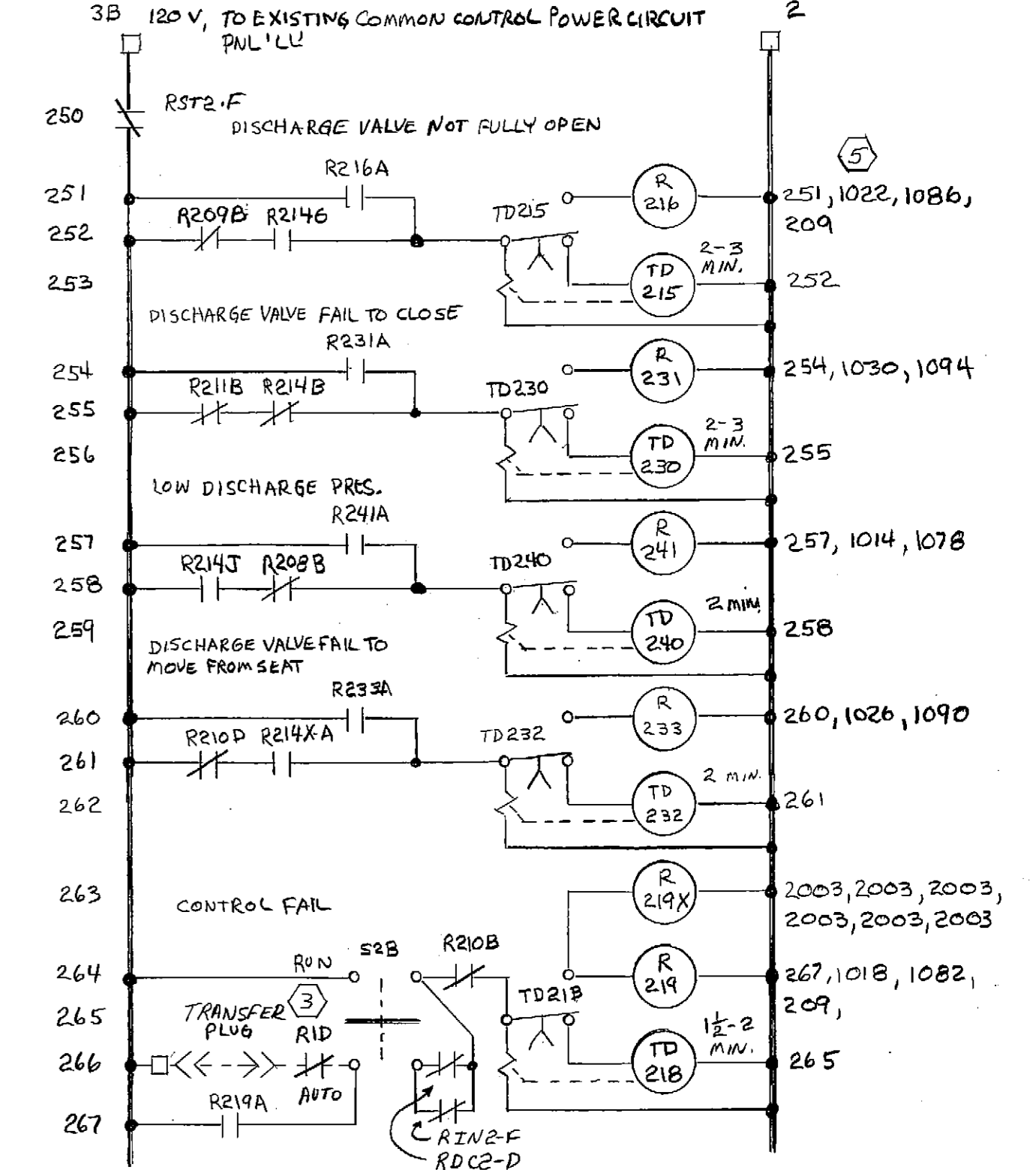


AIR BUBBLER SYSTEM MODIFICATIONS.
NEW DEVICES SHOWN SOLID. NOTE: SEE SH. E3, CIRCUIT E
FOR ELECTRICAL FUNCTION OF PS AB1, PS AB4, SV ACF1, & SV ACF4
MECH. CONT. TO SUPPLY DEVICES & INSTALL. ELEC. CONT. TO MAKE ELEC. CONN.



PARTIAL SCHEMATIC, EXISTING PUMP #4 AIR COMPRESSOR CIRCUIT.
CIRCUIT D. EXISTING CIRCUITS & DEVICES SHOWN DASHED. ADD THOSE
SHOWN SOLID. SEE FLOMATCHER DWG. C-11883 FOR ADDITIONAL DETAIL.
SEE CIRCUIT E, SHEET E3, FOR R402X AND R476X CONTACTS.

- NOTES:
- STATOR AND BEARING THERMISTORS, ASSOCIATED DETECTORS, AND LEAK SWITCH SUPPLIED BY FLYGT WITH PUMP MOTOR.
 - OVERLOAD AND UNBALANCE CT'S, CONTACTS, AND PILOT RELAY ARE EXTERNAL TO SOLID-STATE STARTER.
 - THE FOLLOWING DEVICES ARE EXISTING IN MCL-39, FLOMATCHER SEQUENCING AND CONTROL CIRCUITS, AND ARE TO BE USED WITH THE FLYGT PUMP CONTROL CIRCUITS: R19-B, R19-D (FLOMATCHER DRAWING C-11879), S10 (FLOMATCHER DRAWING E-1192), AND TRANSFER PLUG (FLOMATCHER DRAWING C-1209).
 - PS22, LS2A, B, & C, AND S2A & S2B LOCATED AT PUMP DISCHARGE IN PUMP ROOM.
 - CIRCUIT REFERENCE NUMBERS OF THE "1000" SERIES REFER TO SH. E3, REFERENCE NUMBERS OF THE "2000" SERIES REFER TO FLOMATCHER DRAWING C-1209 & SH. E3.
 - DEVICES MARKED WITH * ARE TO BE LOCATED ON DOOR OF RESPECTIVE ENCLOSURE.
 - SELECTOR SW. S-AB-A APPEARS IN CIRCUITS C & D THIS SHEET AND IS MECHANICALLY INTERLOCKED WITH S-AB-B IN CIRCUIT E, SHEET E3, LOCATE S-AB-A/B IN MCC-39.
 - COORDINATE TIME DELAY SETTING WITH OTHER PUMPS.
 - CONSULT STARTER MANUFACTURER FOR LATEST METHOD OF USING A SINGLE CONTACT FOR START/STOP. AN ADDITIONAL 0.5 SEC. TIME DELAY RELAY MAY BE REQUIRED.



TYPICAL PUMP ALARM TIMING CIRCUIT. B.
PUMP #2 SHOWN. PUMP #3 WILL BE SIMILAR EXCEPT
DEVICES WILL BE NUMBERED WITH A "3". LOCATE IN
COMMON ENCLOSURE WITH SOLID-STATE STARTER
AND PUMP MOTOR CONTROL CIRCUIT A. NOTE: S2A
(CIRCUIT A) AND S2B MECHANICALLY INTERLOCKED.

GRAPHIC SCALE										MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		
FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	DATA
DESIGN											BASE	TELE
STAKING											TOPO	ELEC
ASBUILT											PROFILE	DESIGN
CONTRACTOR											SAN SEWER	QUANTITIES
INSPECTOR											STORM SEWER	PRELIMINARY
CONSTRUCTION RECORD											WATER	FINAL
											GAS	MUNICIPAL/STATE
												PLAN CHECK
												ENGINEERS
												SEAL

CAMPBELL CREEK PUMP STATION ADD
CONSTANT SPEED PUMPS-CONTROL
SCHEMATICS - AS BUILT - REPRODUCED BY
J. ROBB 1-28-85 PS.12

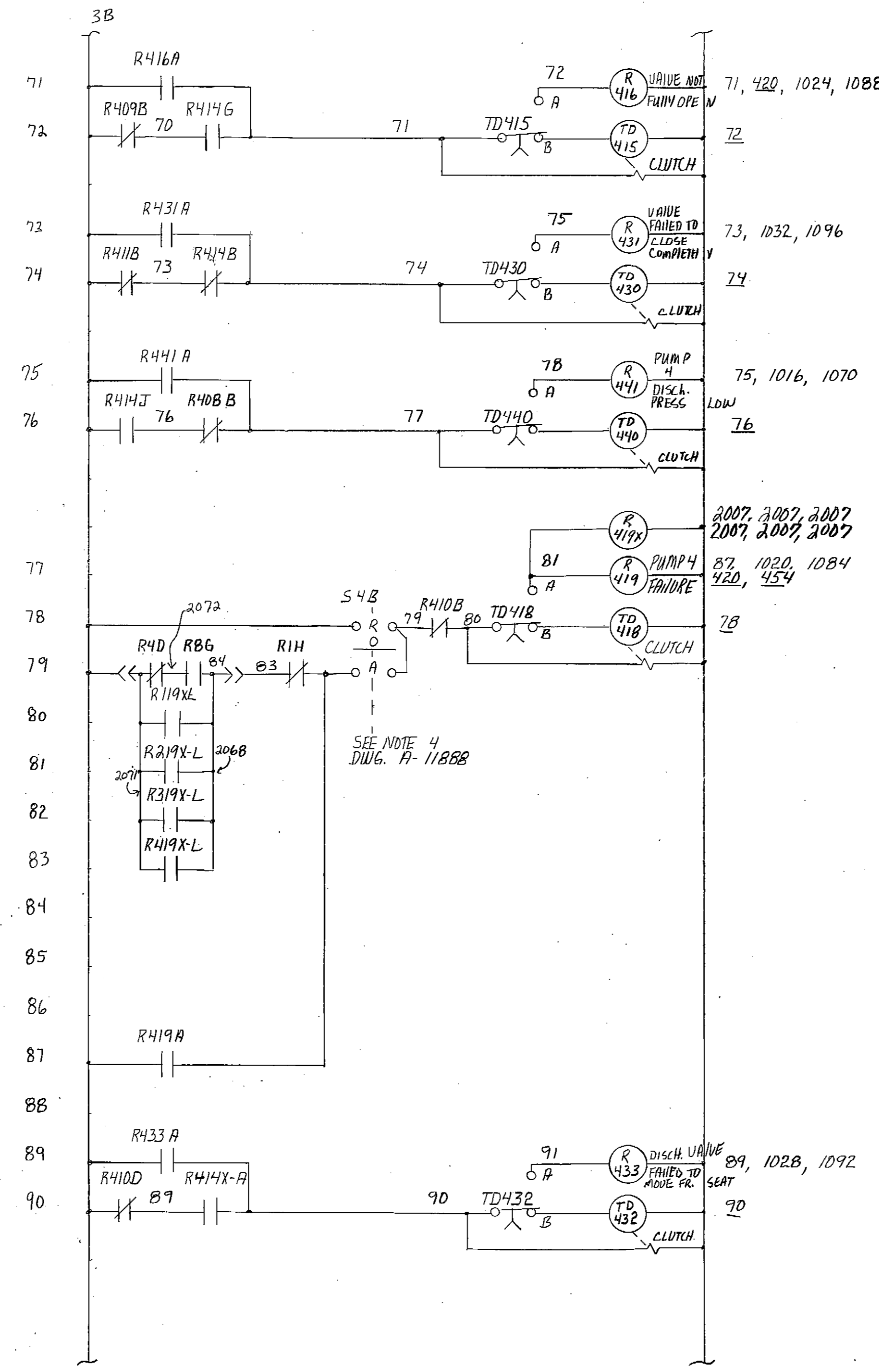
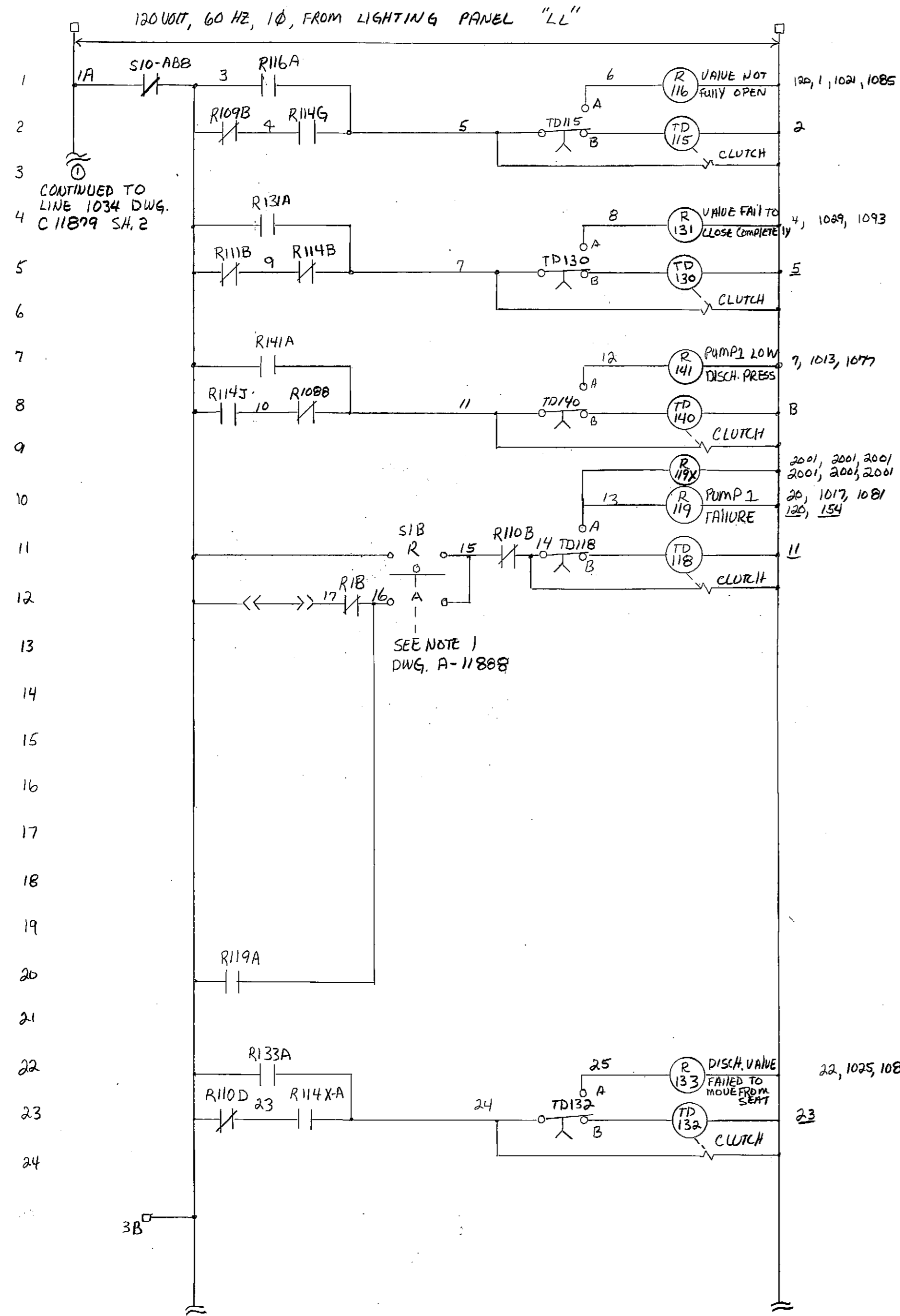
SCALE: HOR. 1"=50'
VER. 1"=5'

DATE: 06.7.1978
CITY: ANCHORAGE

SHEET E2 of 3

AW.W.U. WO.#

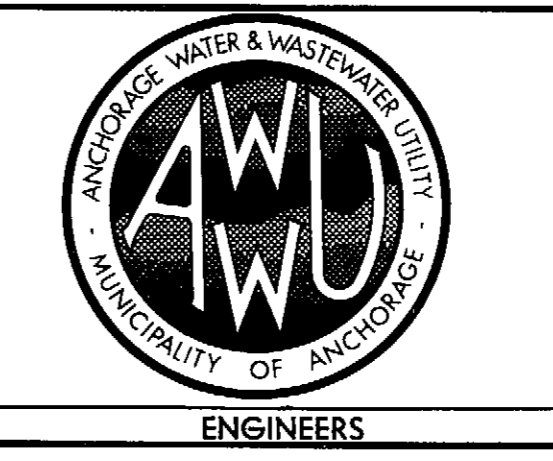
CONTINUED FROM BELOW LEFT



CONTINUED TO DWG. C11879 SA. 2

PLAN SET NO. 4033 11853

GRAPHIC SCALE											
FIELD BOOKS		REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.
DESIGN											
STAKING											
ASBUILT											
CONTRACTOR											
INSPECTOR											
CONSTRUCTION RECORD		REVISIONS		VERTICAL DATUM		VERTICAL DATUM		PLAN CHECK		ENGINEERS	



MUNICIPALITY OF ANCHORAGE
ANCHORAGE WATER & WASTEWATER UTILITY

DWG. 11879
FIDMATER CO. INC.
COMMON CONTROL SCHEMATIC
REDRAWN 1-7-85 J. RABER

HOR. 1"=50'
VER. 1"=5'

DATE: _____
CITY GRID: _____

SEWER GRID: _____

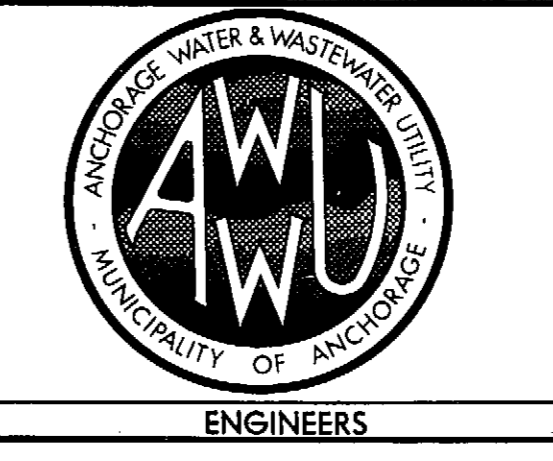
SHEET 1 of 2

AW.W.U. W.O.#

1. S1A, DWG. C-11880 LINE 12D MECHANICALLY INTERLOCKED TO S1B DWG. C-11879 LINE 11.
2. S2A, DWG. C-11881 LINE 22D MECHANICALLY INTERLOCKED TO S2B DWG. 11879 LINE 3B.
3. S3A, DWG. C-11880 LINE 32D MECHANICALLY INTERLOCKED TO S3B, DWG. 11879 LINE 57.
4. S4A DWG. C-11883 LINE 42D MECHANICALLY INTERLOCKED TO S4B DWG. C-11879 LINE 7B.
5. S5A MECHANICALLY INTERLOCKED TO S5B, LINE 144; S5C, LINE 146; AND S5D, LINE 148 DWG. C-11880
6. S6A MECHANICALLY INTERLOCKED TO S6B, LINE 244; S6C, LINE 246 AND S6D LINE 248 DWG. C-11881.
7. S7A MECHANICALLY INTERLOCKED TO S7B, LINE 344, S7C, LINE 346, AND S7D LINE 348 DWG. C-11882
8. S8A MECHANICALLY INTERLOCKED TO S8B LINE 446, AND S8D LINE 448 DWG. C-11883.
9. ALL CONTACTS OF SELECTOR SWITCH S1D MECHANICALLY INTERLOCKED.
10. JUMPED TERMINALS 3A TO 3B AND 1045 TO 1047, WHEN PUMP 2 IS PLACED INTO OPERATION.
11. THESE NOTES APPLY TO DWG. OF PUMP 1-2-3-4 CONTROL LOGIC. ONLY PUMP 2 DWG. C-11880 AND FIVGT CONTROL LOGIC FOR PUMP 2. PUMPS 1# AND 4# ARE SIMILAR IN LOGIC. PUMPS 2# AND 3# ARE SIMILAR IN LOGIC.

GRAPHIC SCALE 0 50 100 150

FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	DATE	DATA	DATE
DESIGN											BASE		TELE	
STAKING											TOPO		ELEC	
											PROFILE		DESIGN	
ASBUILT											SAN SEWER		QUANTITIES	
CONTRACTOR											STORM SEWER		PRELIMINARY	✓
INSPECTOR											WATER		FINAL	✓
CONSTRUCTION RECORD											GAS		MUNICIPAL/STATE	✓
			REVISIONS			VERTICAL DATUM			VERTICAL DATUM				PLAN CHECK	

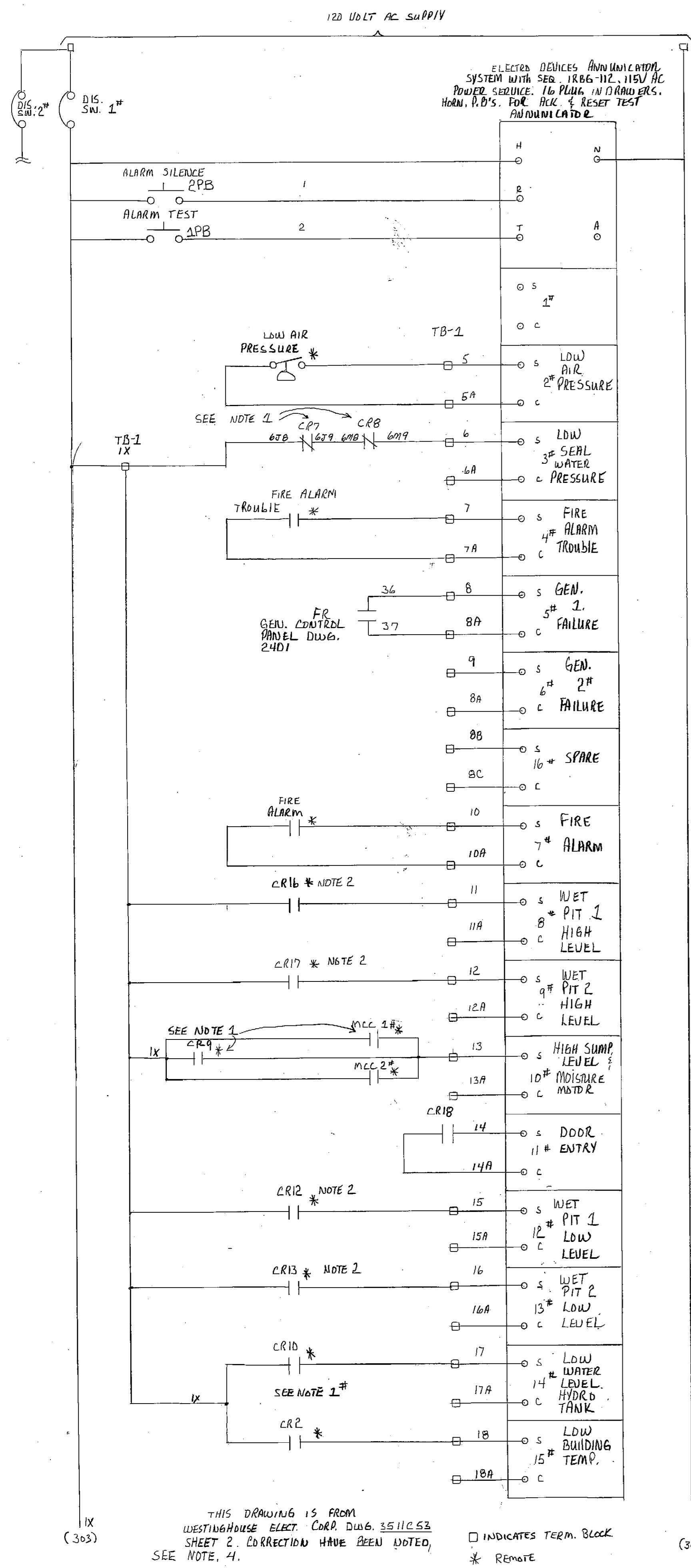


MUNICIPALITY OF ANCHORAGE
ANCHORAGE WATER & WASTEWATER UTILITY

CAMPBELL CREEK P.S. 12 ASBUILT
Flow MARCH DWG. # A-11888
GENERAL NOTES.

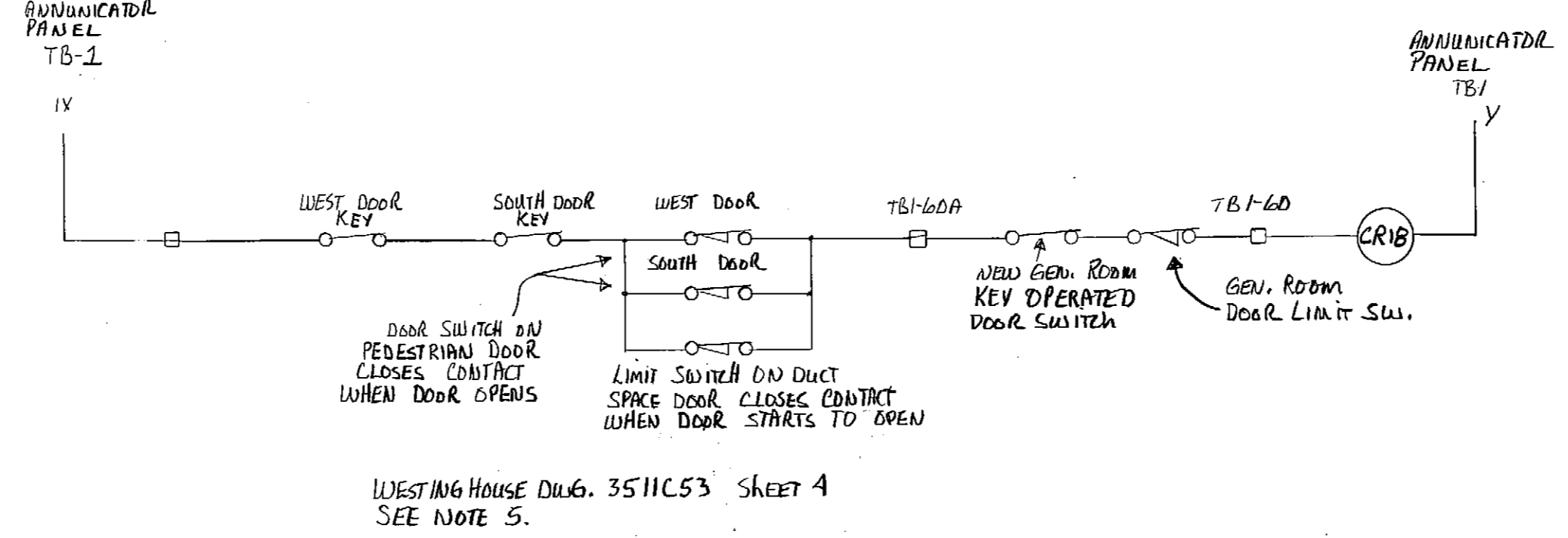
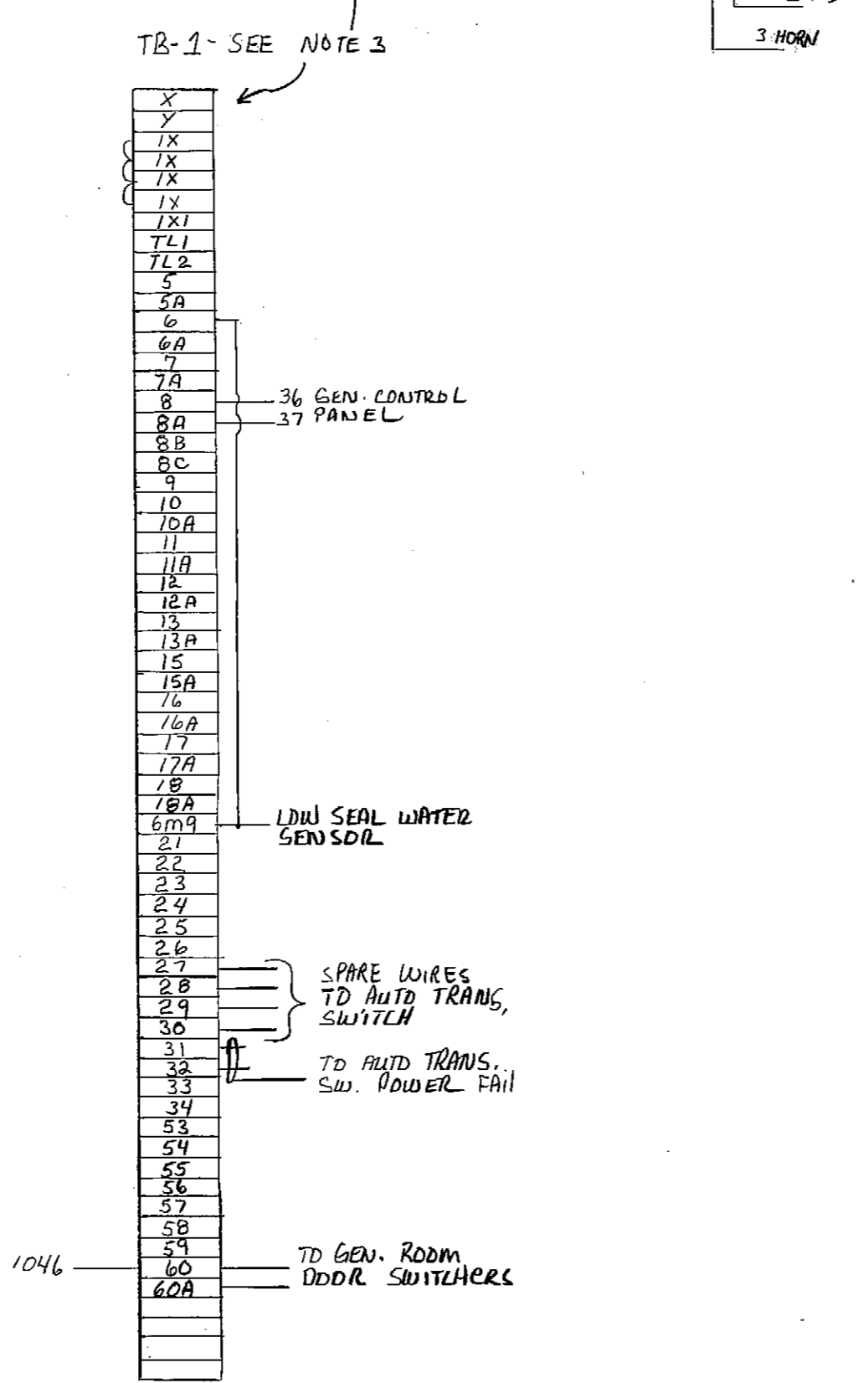
SCALE: HOR. 1"=50' DATE: 3-26-85
VER. 1"=5' CITY: ANCHORAGE SEWER LEGISLATION: JIM ROLO
ENGINEERS SEAL SHEET 1 of 1

AW.W.U. WO.#



REAR VIEW OF ANNUNCIATOR PANEL TELEMETRY

SHRFL 00000 FIRE ALARM 00000 00000	SHRFL 00000 LOW SEAL WATER PRESSURE 00000 00000	SHRFL 00000 AIR PRESSURE 00000 00000	SHRFL 00000 OPEN 00000 00000
SHRFL 00000 WET PIT 1 HIGH LEVEL 00000 00000	SHRFL 00000 FIRE ALARM GEN 2 FAILURE 00000 00000	SHRFL 00000 HIGH SUMP & MTR. MSTR. 00000 00000	SHRFL 00000 WET PIT 2 FAILURE 00000 00000
SHRFL 00000 WET PIT 2 LOW LEVEL 00000 00000	SHRFL 00000 DOOR ENTRY 00000 00000	SHRFL 00000 LOW H ₂ O LEVEL HYDRO TANK 00000 00000	SHRFL 00000 WET PIT 2 HIGH LEVEL 00000 00000
SHRFL 00000 00000 00000	SHRFL 00000 LOW BLA. TEMP. 00000 00000	SHRFL 00000 00000 00000	SHRFL 00000 00000 00000



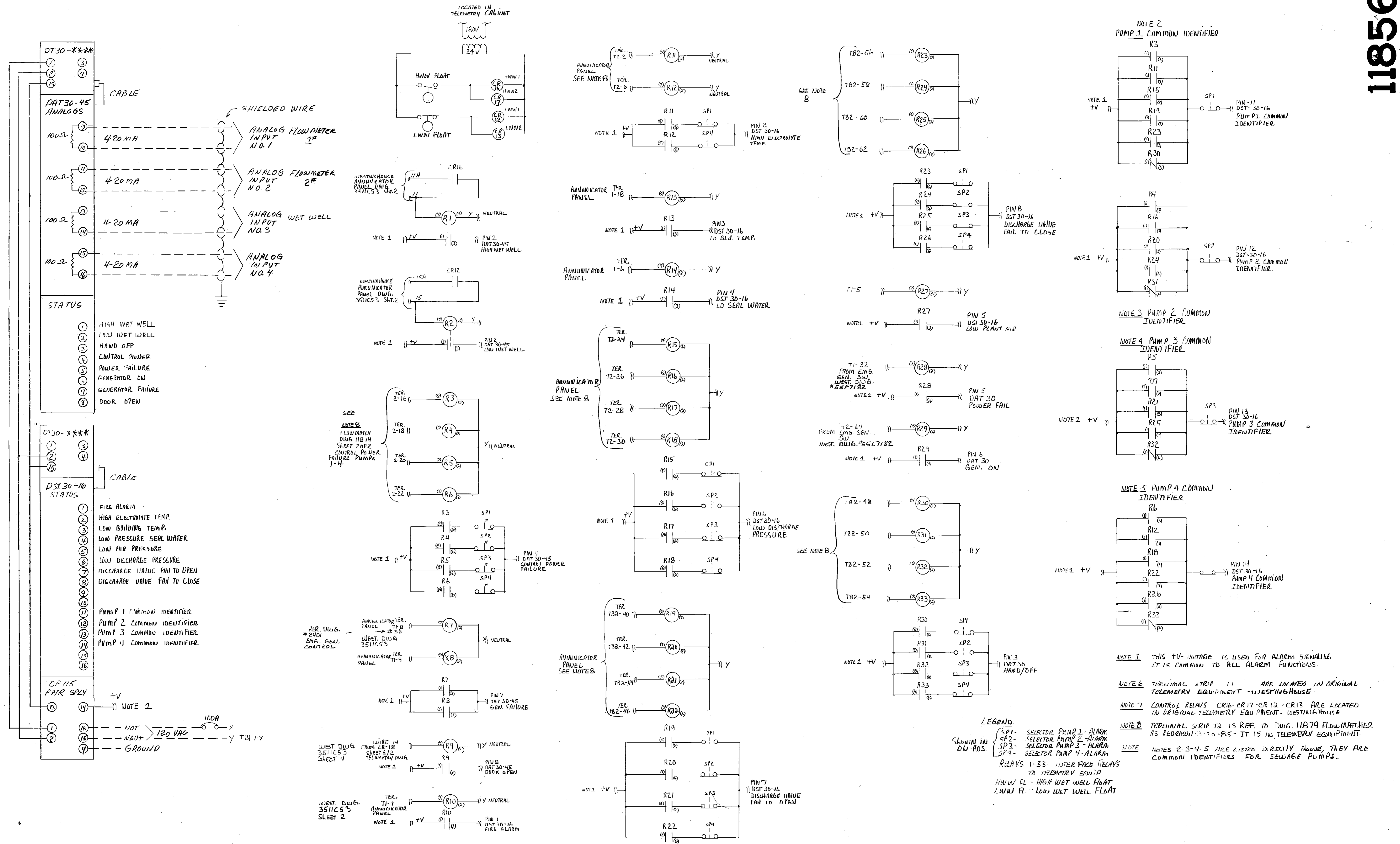
- NOTES
1. WESTINGHOUSE DRAWING CG-67FD15 CAMPBELL CREEK PUMP STATION
 2. TELEMETRY AS BUILTS DRAWINGS SHEET 1 OF 2
 3. REDRAWN FROM WESTINGHOUSE DWG. 3511C53 SHEET 10. ANNUNCIATOR PANEL
 4. REDRAWN FROM WESTINGHOUSE DWG. 3511C53 SHEET 2. ANNUNCIATOR PANEL
 5. REDRAWN FROM WESTINGHOUSE DWG. 3511C53 SHEET 4. ANNUNCIATOR PANEL

<p>GRAPHIC SCALE 0 50 100 150</p>												<p>MUNICIPALITY OF ANCHORAGE ANCHORAGE WATER & WASTEWATER UTILITY</p>											
DESIGN	FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	OWN	CD	DATA	OWN	CD						
STARTING												BASE	TELE		TOPO	ELEC							
ASBUILT												PROFILE	DESIGN		SAN SEWER	QUANTITIES							
CONTRACTOR												STORM SEWER	PRELIMINARY	✓	WATER	FINAL	✓						
INSPECTOR												GAS	MUNICIPAL/STATE	✓									
CONSTRUCTION RECORD				REVISIONS				VERTICAL DATUM				VERTICAL DATUM				PLAN CHECK				ENGINEERS		SEAL	

THIS DRAWING IS FROM WESTINGHOUSE ELECT. CORP. DWG. 3511C53 SHEET 2. CORRECTIONS HAVE BEEN NOTED, SEE NOTE 4.

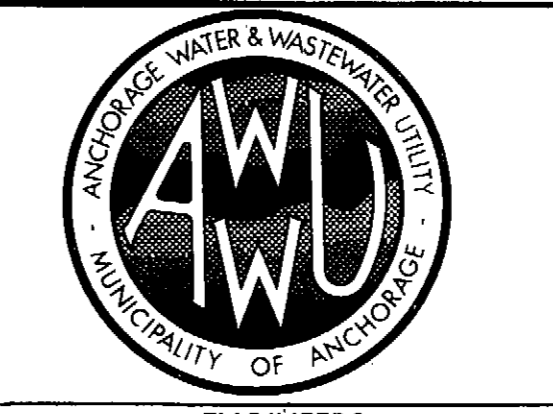
SCALE HOR. 1"=50' DATE: 3-20-85 J. Robb SHEET 2 of 2
VER. 1"=5' CITY GRID. SEWER GRID.

AWU.W.U. WO.#



GRAPHIC SCALE

DESIGN	STAKING	ASBUILT	CONTRACTOR	INSPECTOR	CONSTRUCTION RECORD	REVISIONS	VERTICAL DATUM	VERTICAL DATUM	PLAN CHECK	ENGINEERS	SEAL



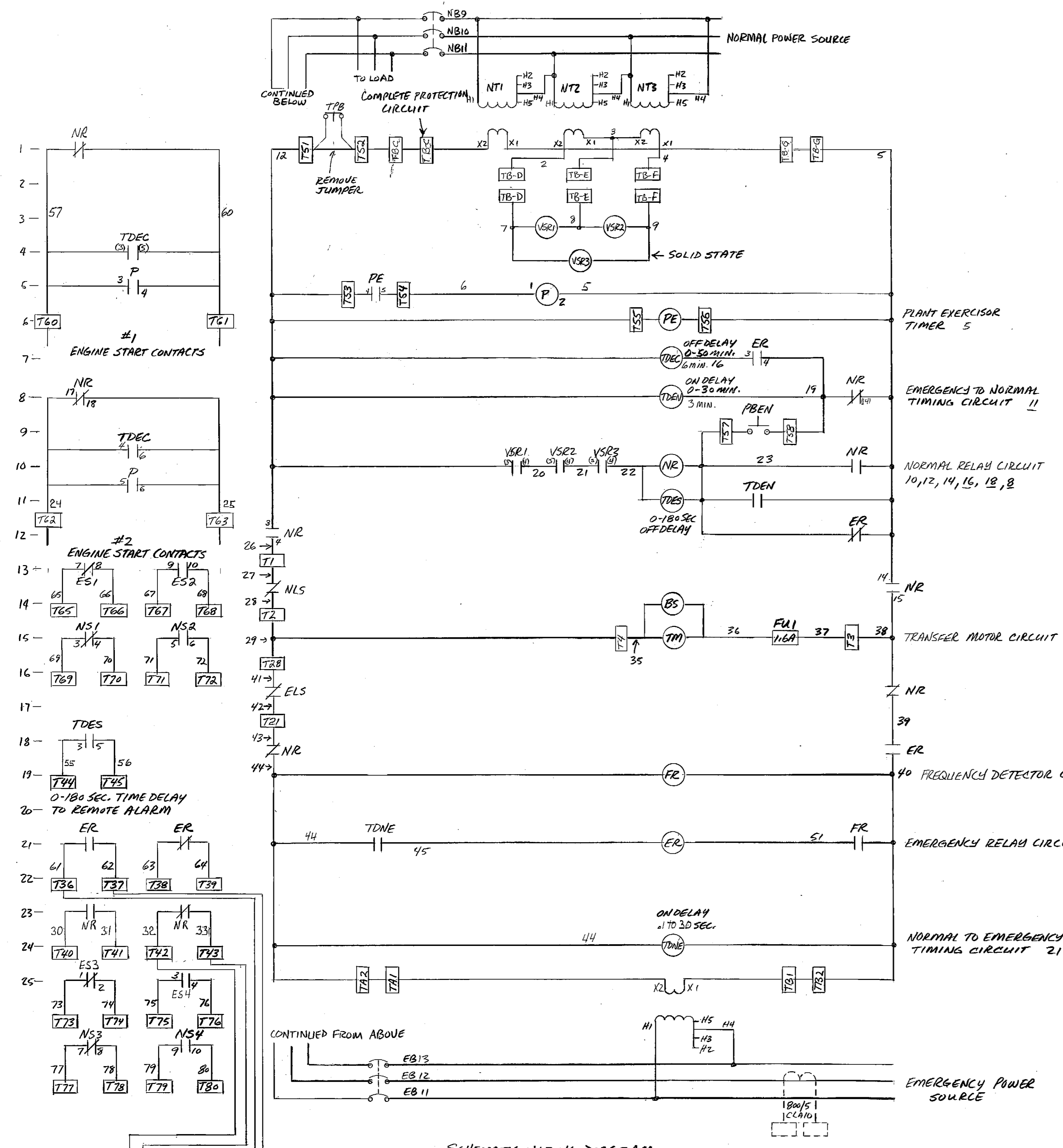
MUNICIPALITY OF ANCHORAGE ANCHORAGE WATER & WASTEWATER UTILITY

TELEMETRY CABINET AS BUILTS 2 SHEETS COMBINED FROM INFO. RECEIVED FROM WESTINGHOUSE. J. BEZIK THIS A PARTIAL INTERFACE WITH BOTH ORIGINAL & FLNET UPGRADE.

CAMP BELL CREEK P. S. 12. REVISED 4-22-85

SCALE: HOR. 1"=50' DATE: 3-20-84 CITY: ANCHORAGE, ALASKA SHEET 1 of 2

AW.W.U. W.O.#



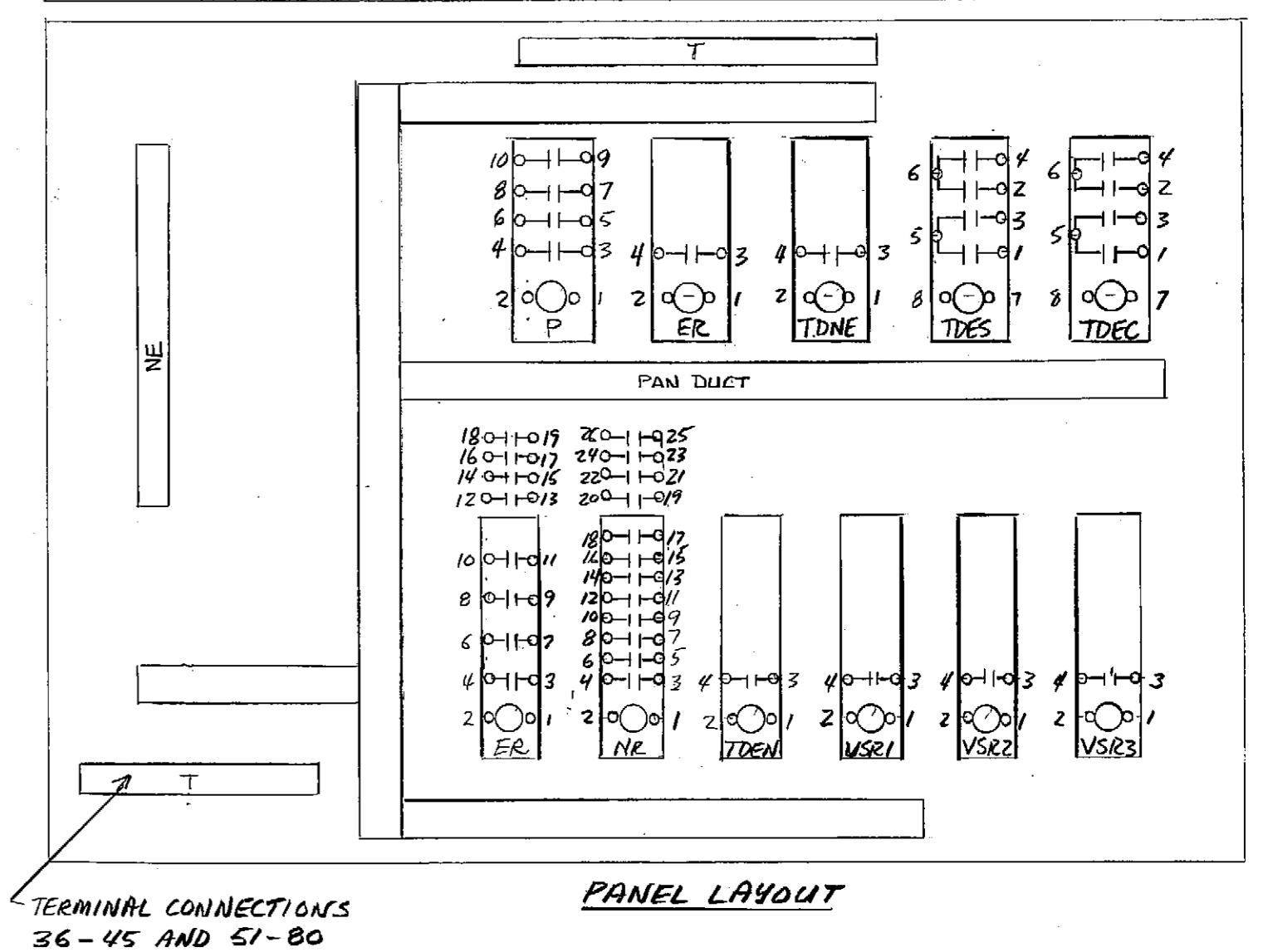
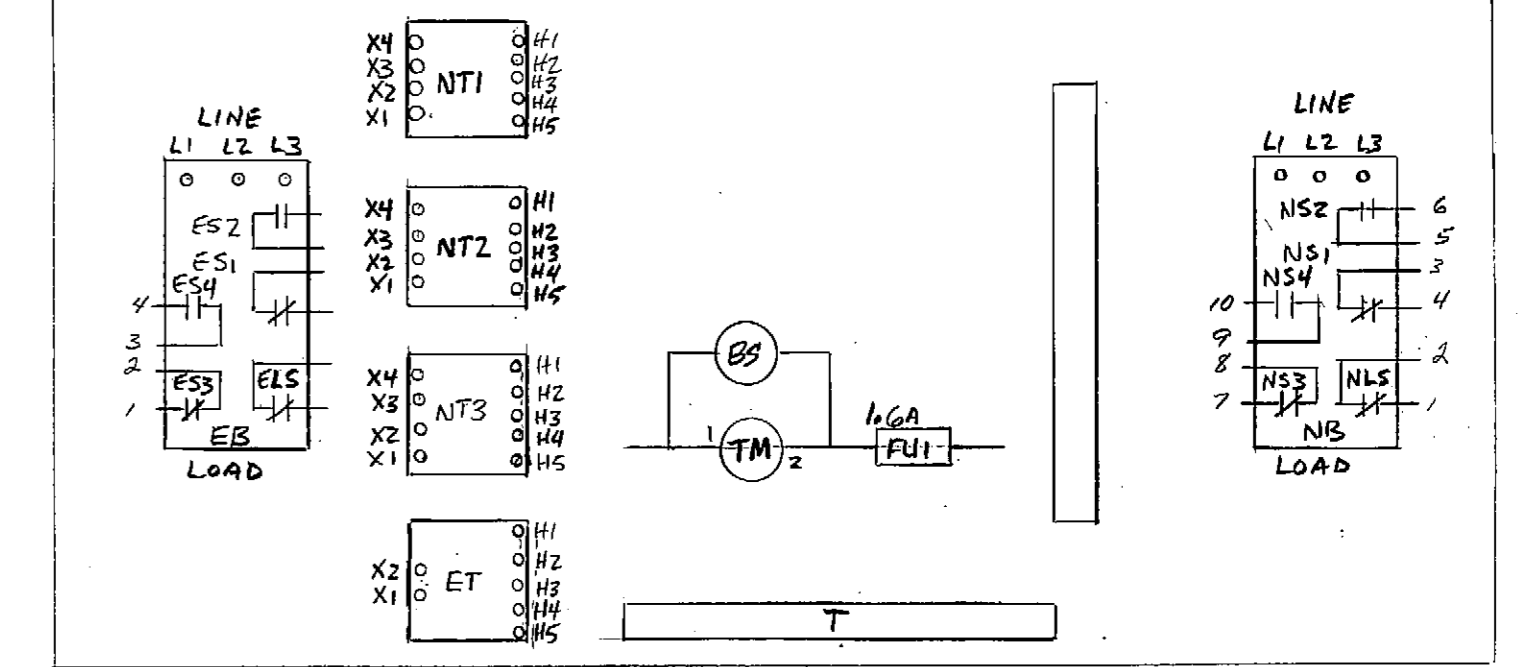
SCHMATIC WIRING DIAGRAM

NOTES: A - PANEL LAYOUT SHOWS THE LOCATION OF ALL POSSIBLE COMPONENTS. B - SCHEMATIC WIRING DIAGRAM SHOWS ONLY THOSE COMPONENTS SUPPLIED. C - CONTROL SCHEME SHOWN WITH BOTH BREAKERS OPEN AND ALL RELAYS DE-ENERGIZED. D - BROKEN LINES ARE SOLID CONNECTIONS; FACTORY WIRED. E - DOTTED LINES ARE FOR CUSTOMER WIRING. F - IF COVER MOUNTING IS SPECIFIED, DOTTED LINES ARE FACTORY WIRED.

4-22-85 NOTES ON SETTINGS.

- A. 12 SEC. FROM LOSS NORMAL POWER TO TRANSFER SW. OPERATION.
B. 3 MIN. TO TRANSFER OPERATION EMG. TO NORMAL.
C. GEN. RUNS FOR 1 MINUTE AFTER EMG. TO NORMAL TRANSFER.
D. GENERATOR SHOULD NOT RUN FOR MORE THAN 1 MIN. COOL DOWN, AS MANF. SPEC.

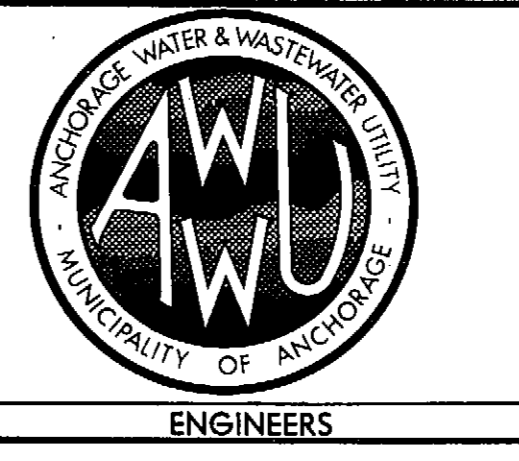
Table with columns: OPTION, SYMBOL, DESCRIPTION. Lists components like E (EMERGENCY), N (NORMAL), T (TERMINAL BLOCK), NR (NORMAL RELAY), ER (EMERGENCY RELAY), TM (TRANSFER MOTOR), BS (BRAKE SOLENOID), TDEN (TIME DELAY EMERGENCY TO NORMAL), NLS-ELS (LIMIT SWITCH), etc.



TERMINAL CONNECTIONS 36-45 AND 51-80

WESTINGHOUSE ELECTRIC CORPORATION DISTRIBUTION & CONTROL EQUIPMENT DIVISION BEAVER, PA.

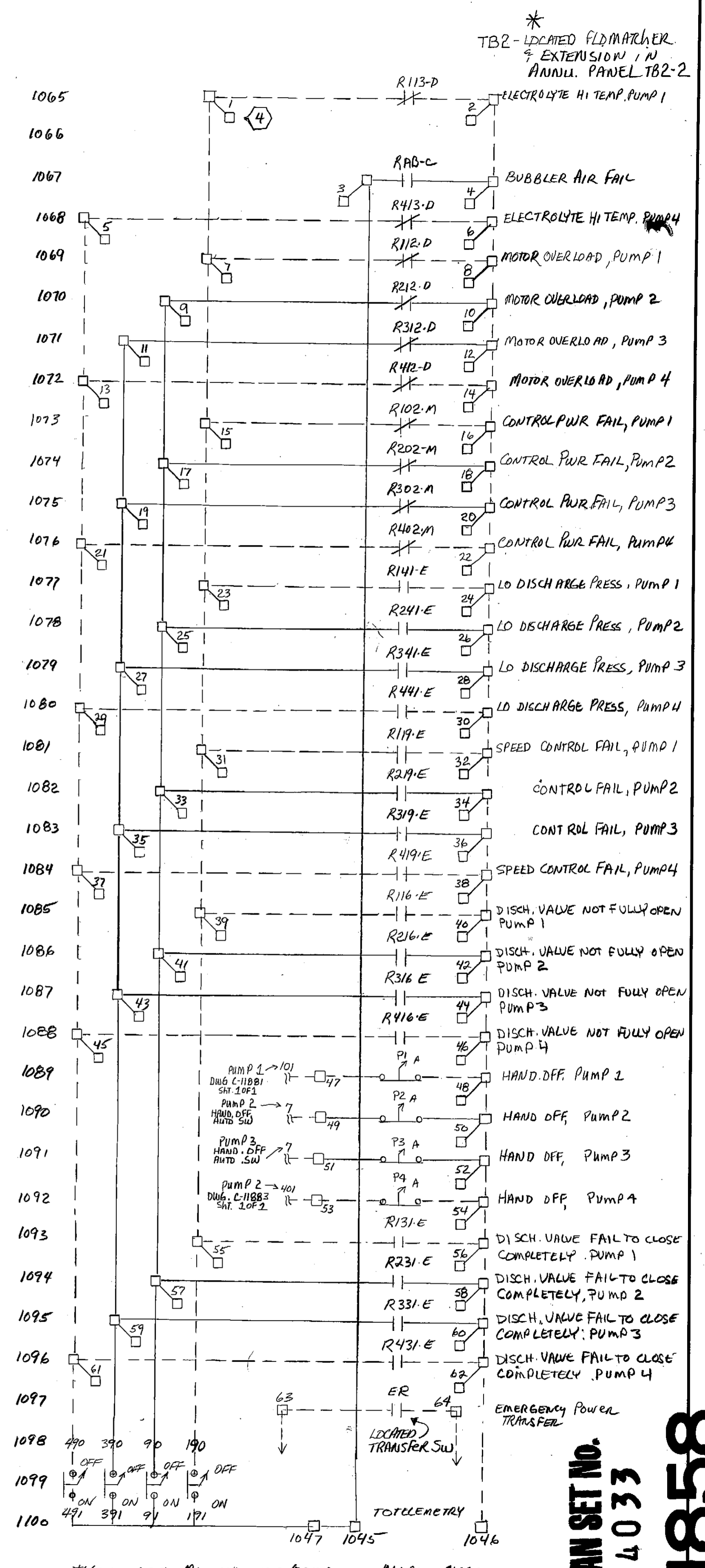
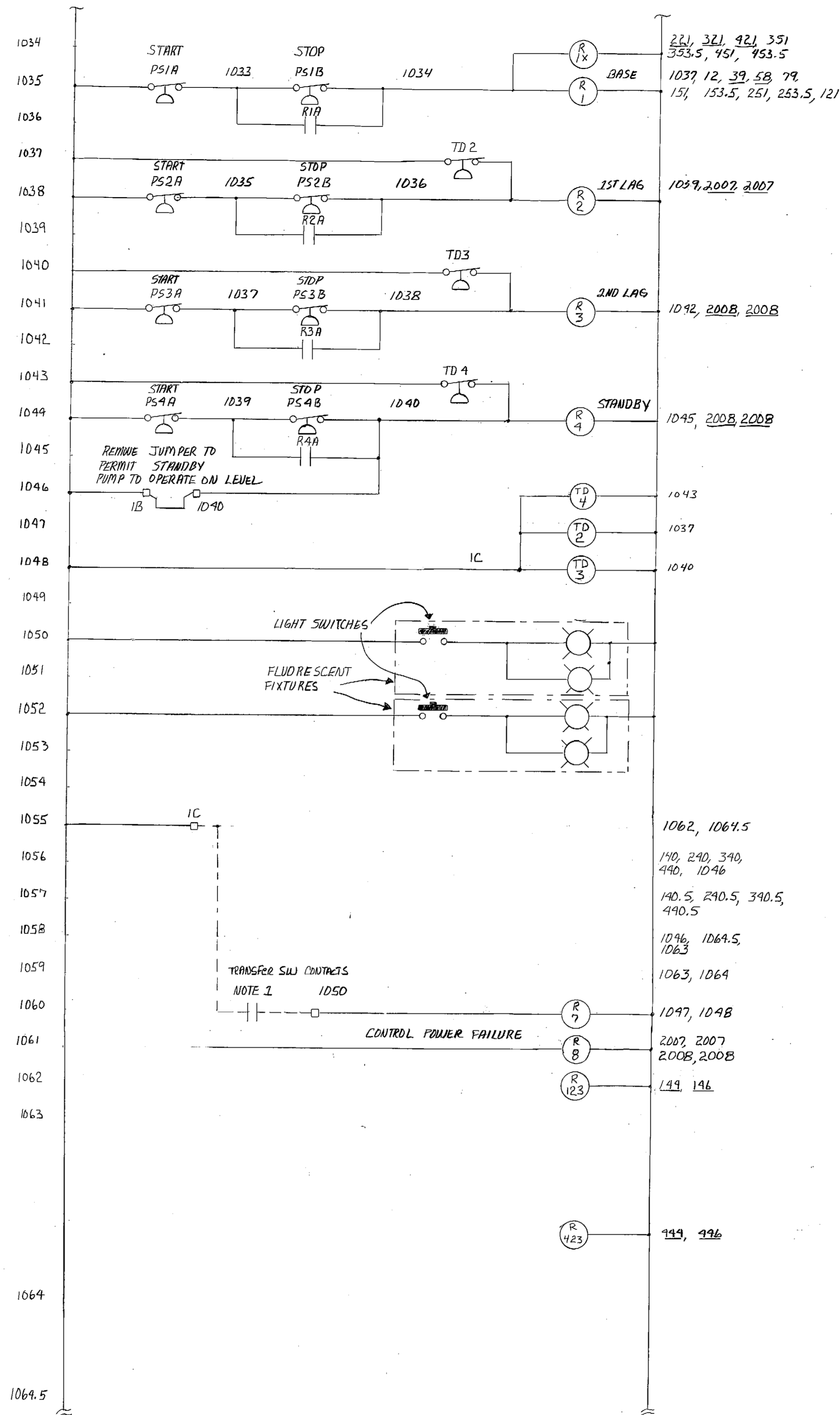
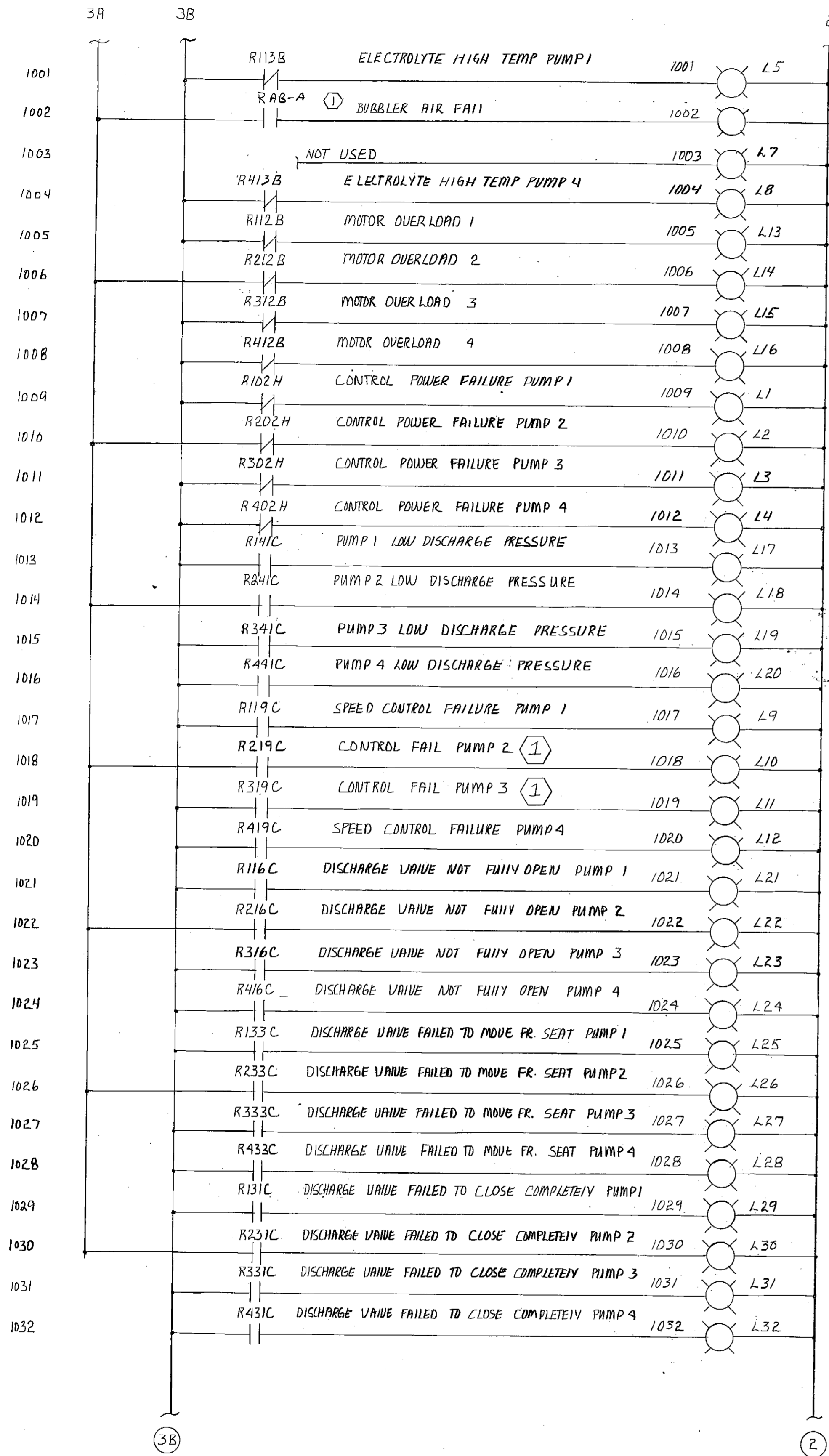
Table with columns: FIELD BOOKS, REV, DATE, DESCRIPTION, BY, TBM NO., LOCATION, ELEV., TBM NO., LOCATION, ELEV., DATA, PLAN CHECK, ENGINEERS, SEAL.



MUNICIPALITY OF ANCHORAGE ANCHORAGE WATER & WASTEWATER UTILITY. AUTOMATIC TRANSFER SWITCH CAMPBELL CR PUMP STATION # 12. OPT. NR. A32000-0 3POLE 480V. 2000A. DATE: 3-20-85. SHEET 1 of 1.

CONTINUED FROM DWG. C 11879 SH 1

CONTINUED FROM SH1 DWG. 11879, LINE 1



<p>GRAPHIC SCALE 1"=50'</p>												<p>MUNICIPALITY OF ANCHORAGE ANCHORAGE WATER & WASTEWATER UTILITY</p>		
DESIGN	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	OWNED BY	DATA	OWNED BY
STARTING											BASE	TELE	DESIGN	
ASBUILT											PROFILE	ELEC	QUANTITIES	
CONTRACTOR											SAN SEWER	DESIGN	PRELIMINARY	
INSPECTOR											STORM SEWER	DESIGN	FINAL	
CONSTRUCTION RECORD											WATER	DESIGN	MUNICIPAL/STATE	
			REVISIONS			VERTICAL DATUM					GAS	DESIGN	PLAN CHECK	
													ENGINEERS	
													SEAL	
														SHEET 2 of 2

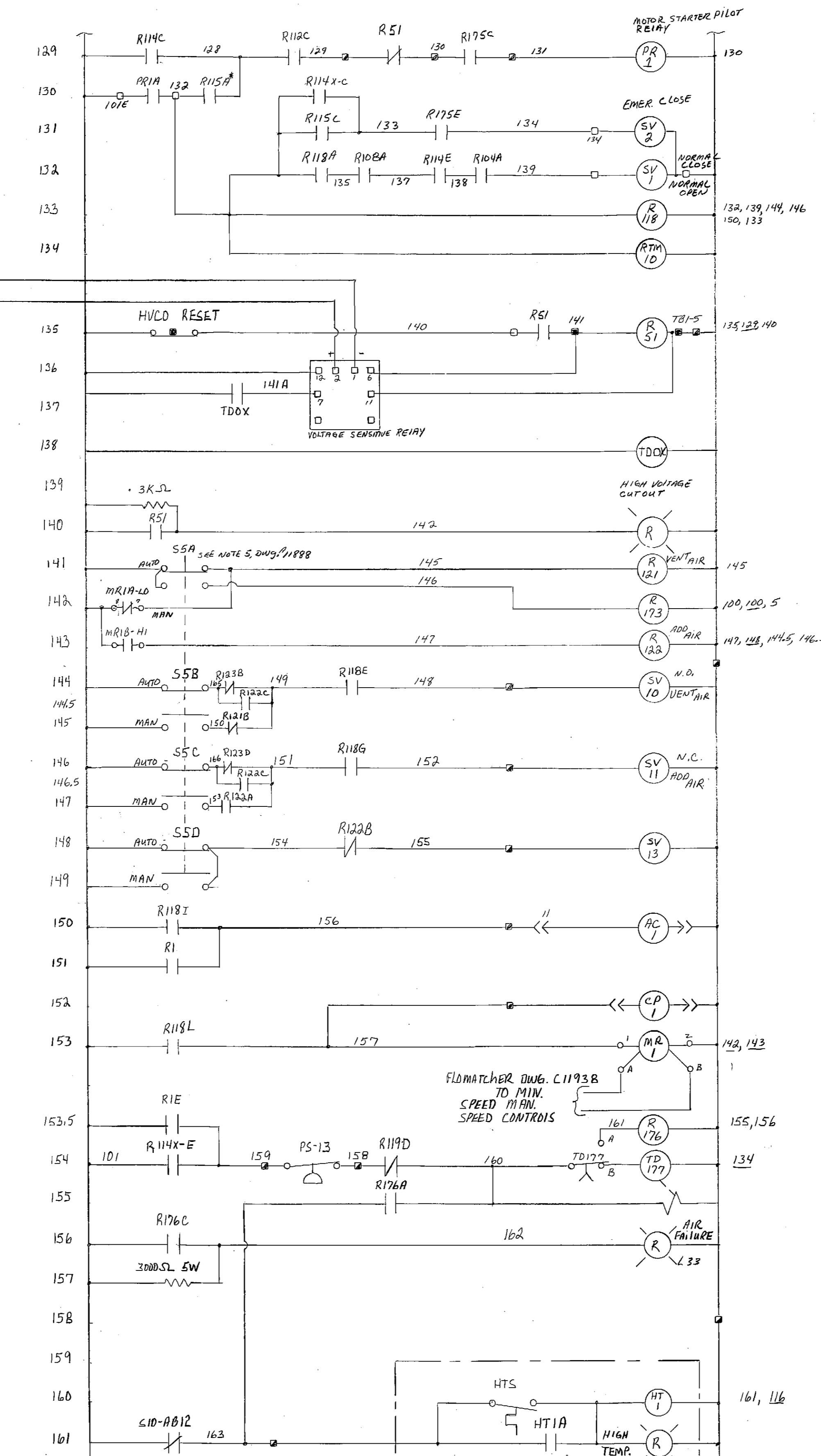
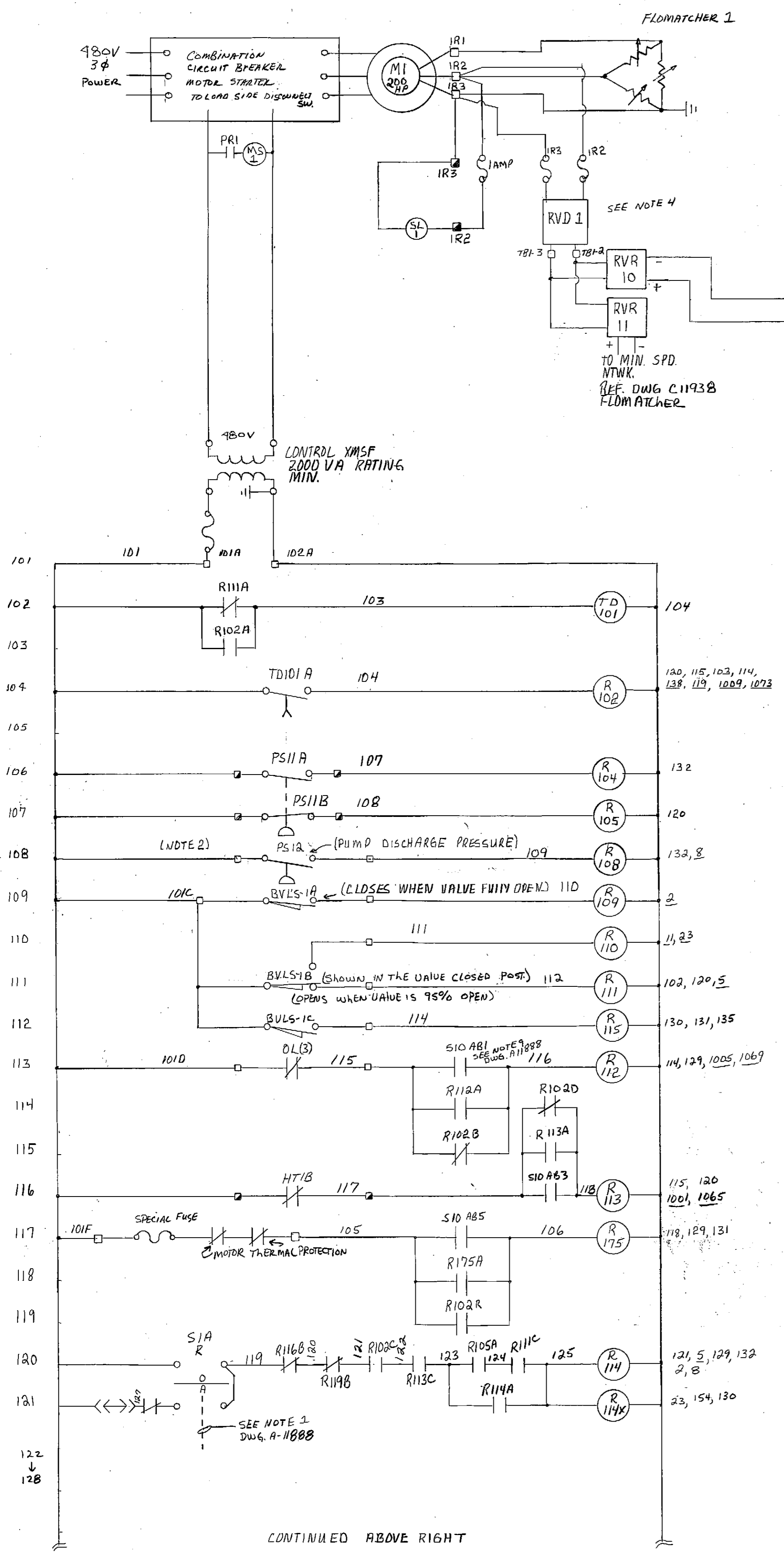
SCALE HOR. 1"=50'
VER. 1"=5'

DATE: 3-26-85

AW.W.U. WO.#

PLAN SET NO.
4033
11858

CONTINUED BELOW LEFT



- NOTES**
1. WIRING & EQUIPMENT SHOWN DEEMED TO BE SUPPLIED & INSTALLED BY OTHERS.
 2. PRESSURE SWITCH PS1A WITH DIAPHRAGM SEAL SUPPLIED BY FLOWMATCHER MOUNTED & WIRED BY OTHERS.
 3. * OVERLAPPING CONTACTS, CONTACT R115B CLOSURE BEFORE R115A OPENS.
 4. RVR 10 IS SET TO GIVE A 5VDC OUTPUT AT 10% ABOVE OPEN ROTOR CKT VOLTAGE (550V). RVR 11 IS SET TO GIVE A 15VDC OUTPUT AT MINIMUM SPEED ROTOR VOLTAGE.
 5. THIS PRINT WAS REDRAWN WITH EXISTING DELETIONS NOTED AS OF 12-20-84 BY J. ROBB. ORIGINAL PRINT DATE IS 11-9-72 SHEET 1 OF 1 DWG. #C11880 FLOWMATCHER CO. INC.

GRAPHIC SCALE 0 50 100 150

DESIGN	STAGING	ASBUILT	CONTRACTOR	INSPECTOR	FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	OWNED BY	DATA	OWNED BY

CONSTRUCTION RECORD

REVISIONS

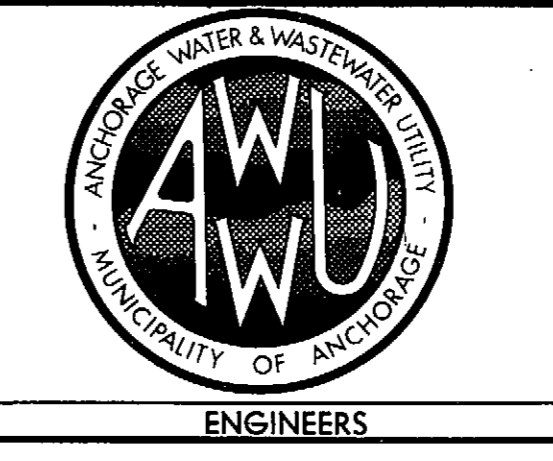
VERTICAL DATUM

VERTICAL DATUM

PLAN CHECK

ENGINEERS

SEAL



MUNICIPALITY OF ANCHORAGE
ANCHORAGE WATER & WASTEWATER UTILITY

DWG. # C11880 FLOWMATCHER CO. INC.
PUMP 1 VARIABLE SPEED CONTROL SYSTEM
REDRAWN 1-7-85 J. ROBB

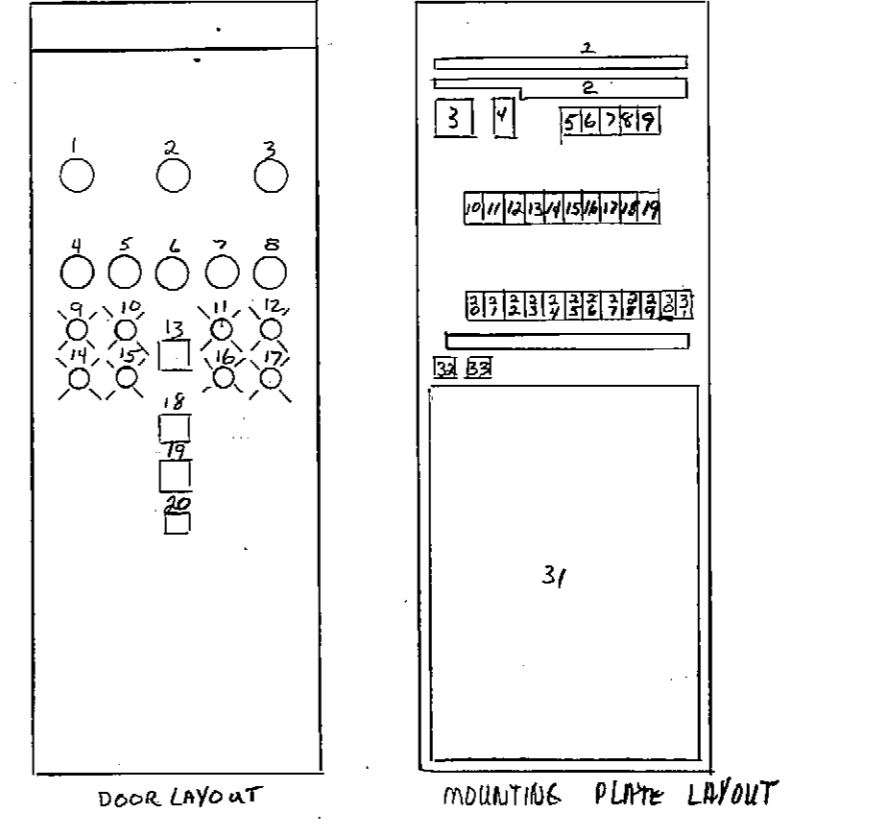
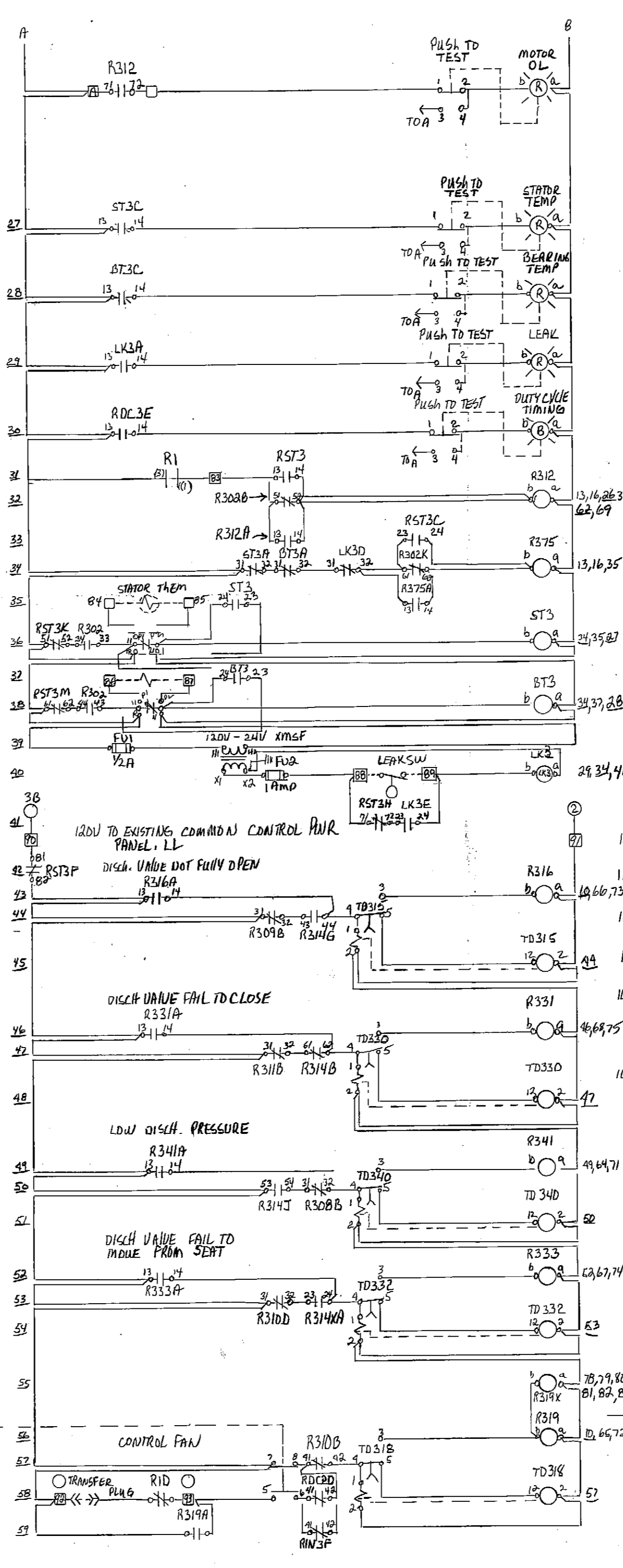
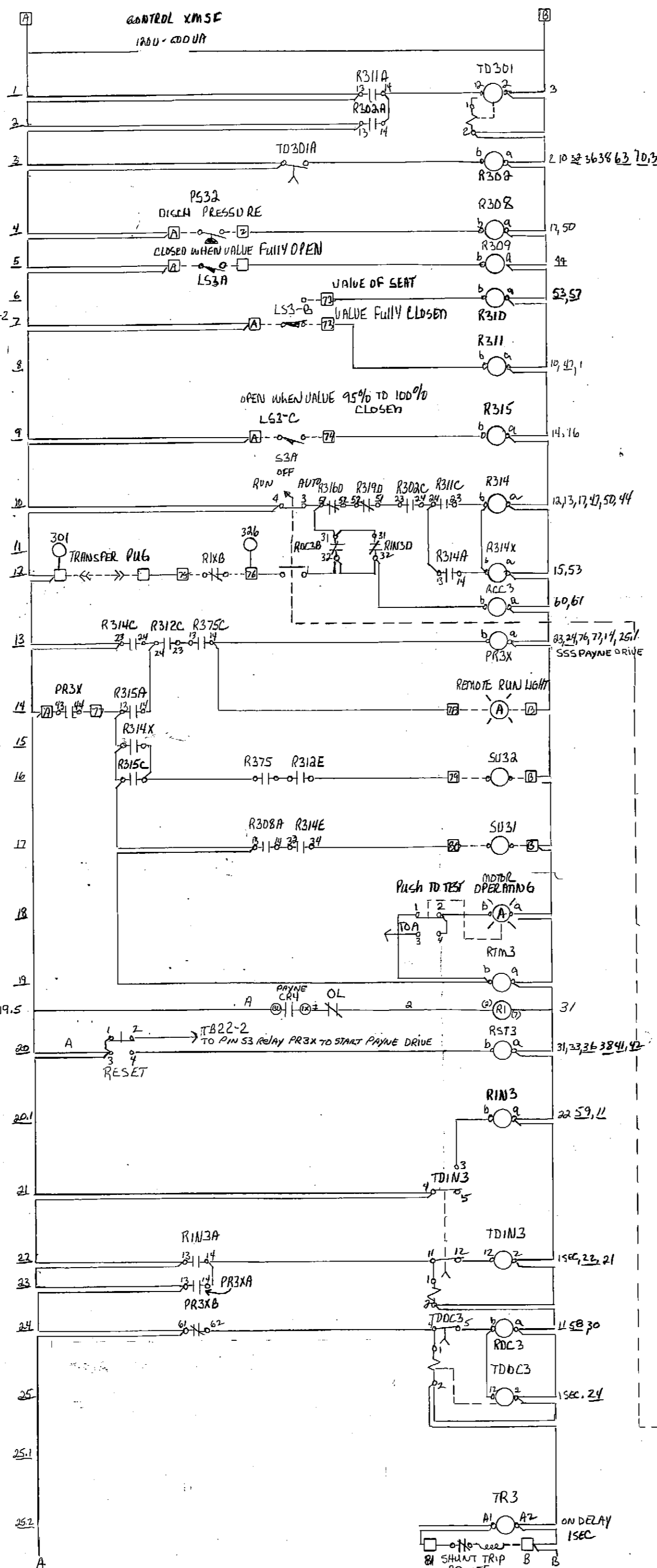
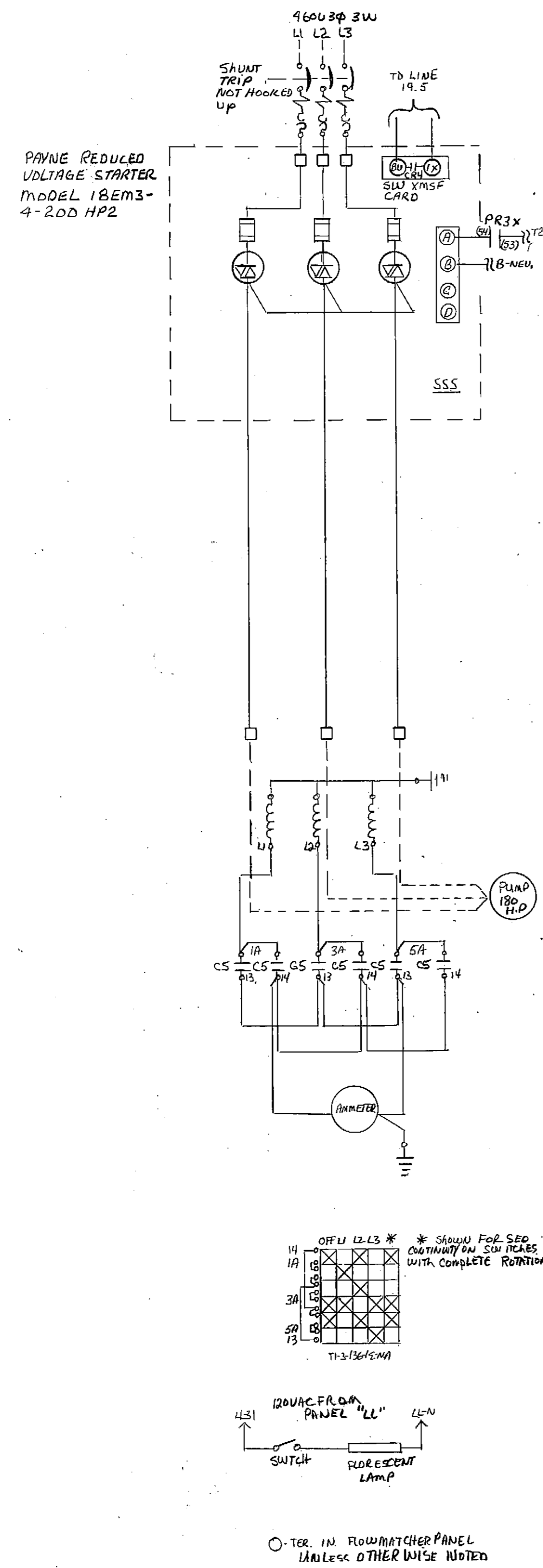
REVISION 4-18-85 JR.

SCALE: HOR. 1"=50'
VER. 1"=5'

DATE: _____
CITY GRID: _____

SHEET 1 of 1

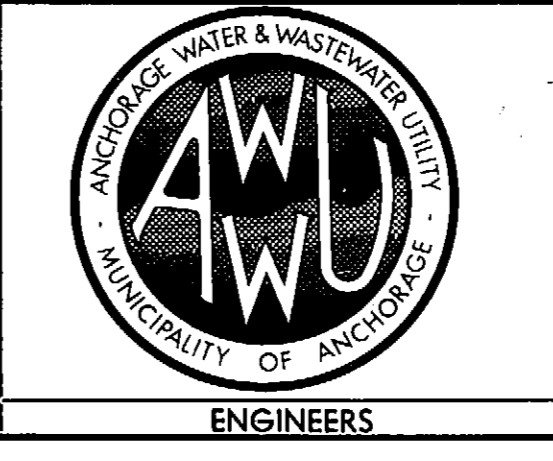
AW.W.U. WO. #



- LEGEND FOR MOUNTING PLATE**
- TERMINAL
 - WIRING TROUGH
 - TRM R. SW
 - FUSE BLOCK
 - R302
 - R303
 - R309
 - R310
 - R311
 - R314
 - R315
 - PR AX
 - RST2
 - RIM3
 - RDC3
 - R375
 - LX3
 - R316
 - R331
 - R341
 - R333
 - R319x
 - R319
 - ST3
 - BT3
 - BEARING THERM.
 - STARTER THERM.
 - CONTROL STARTER
 - RCC3
 - TR3
- LEGEND FOR DOOR**
- TD301
 - TDIN3
 - TDDC3

C913.6	ORDER #	
FWS	FLYGT PUMP 3	KNICKER BOELLER
CITY	MUNICIPALITY OF ANCHORAGE	SAU FRANCISCO
		DWG 732 616 116/1430

GRAPHIC SCALE											
FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA
DESIGN											TELE
STAKING											ELEC
ASBUILT											DESIGN
CONTRACTOR											QUANTITIES
INSPECTOR											PRELIMINARY
											FINAL
											MUNICIPAL/STATE
											PLAN CHECK
											ENGINEERS
											SEAL



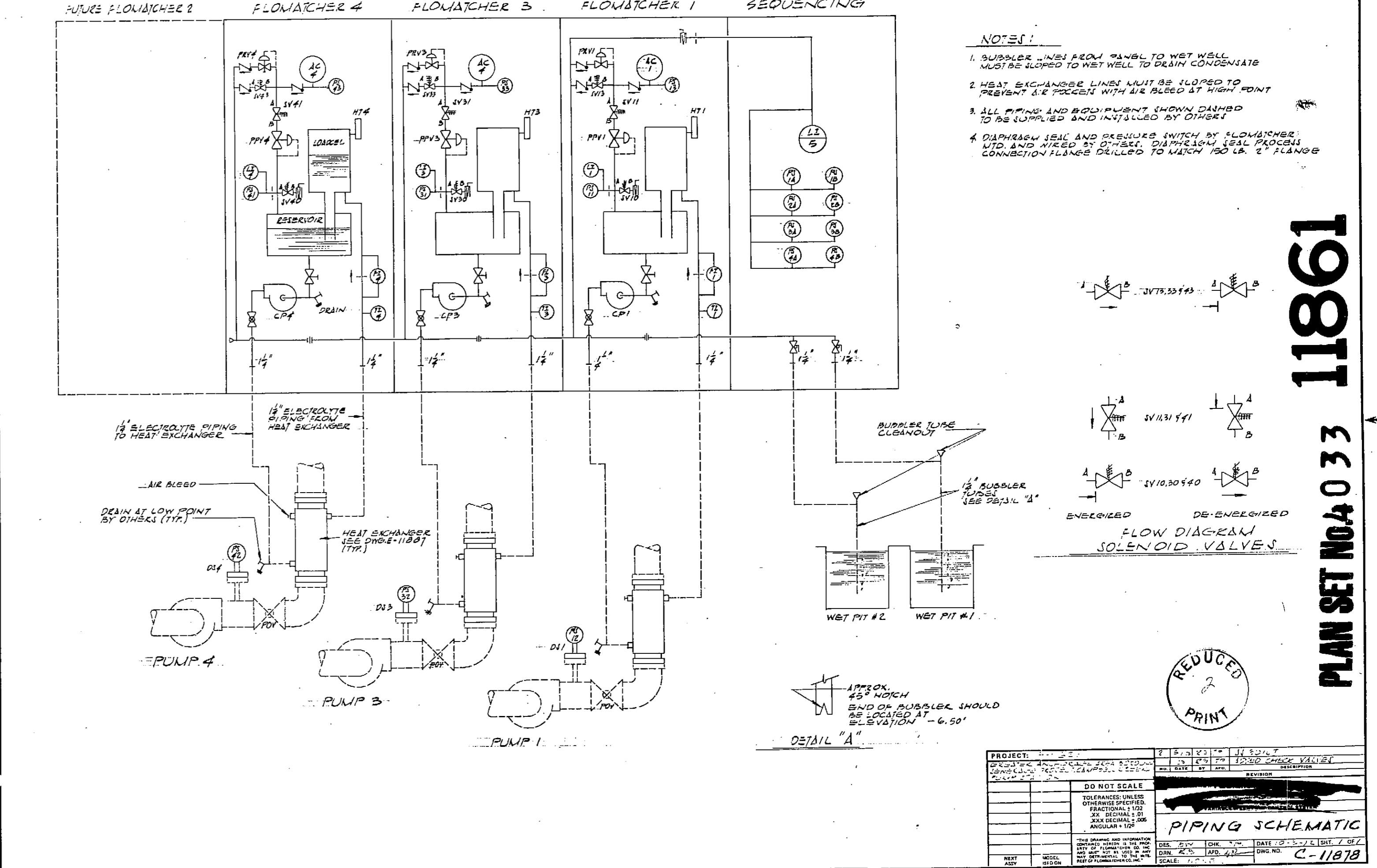
MUNICIPALITY OF ANCHORAGE
ANCHORAGE WATER & WASTEWATER UTILITY
 CUSTOMER ORDER NUMBER C913.6
 FLYGT PUMP 3
 OUR ORDER # 610-16-4829
 DATE 2-14-85
 DWG 732-616/1430
 REVISED 10-29-85 JIM ROBB - INSTALLED PHVNE STARTERS

SCALE HOR. 1"=50' DATE 5-2-85
 VER. 1"=5' CITY 1985
 SHEET 1 of 1

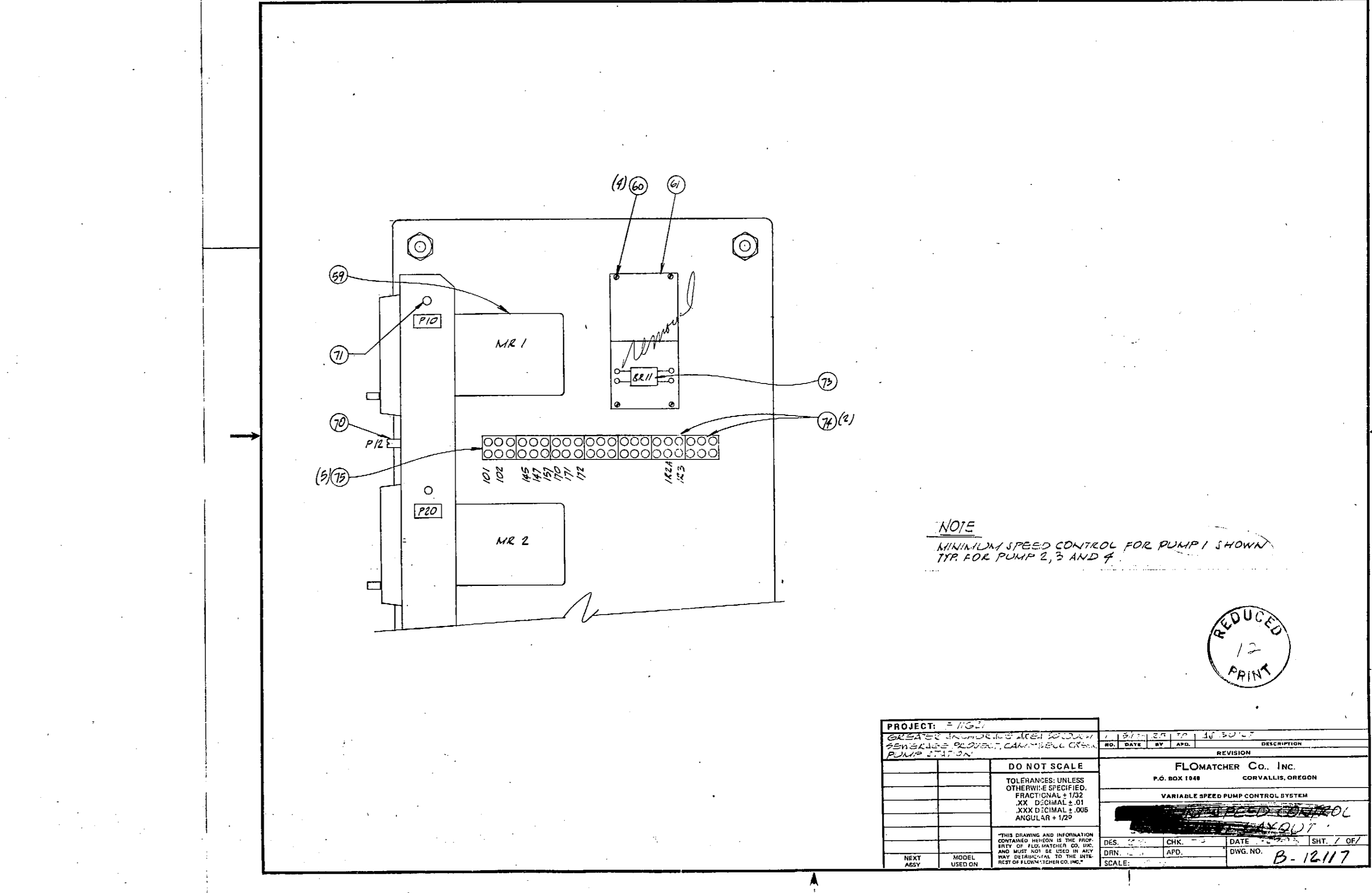
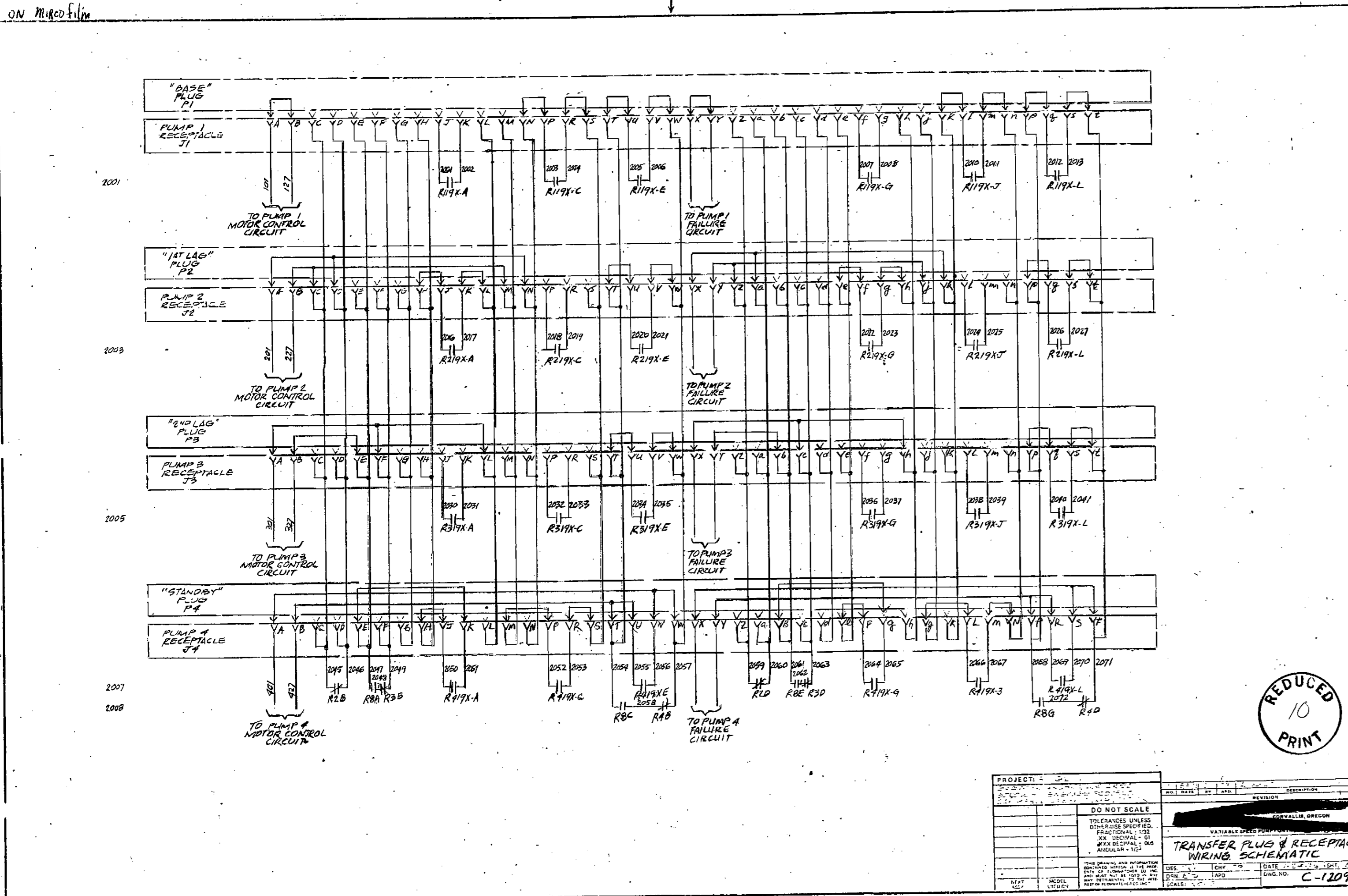
AW.U.W.O.#

SELECTION SWITCH S-10		LINE NUMBER	POSITION	CONTACT
		161	1	A12-B12
		261	X	A2-B2
		361	X	A4-B4
		461	X	A6-B6
		1	X	A8-B8
		113	X	A1-B1
		116	X	A3-B3
		117	X	A5-B5
		135	X	A7-B7
		213	X	A9-B9
		216	X	A11-B11
		217	X	C1-D1
		235	X	C3-D3
		313	X	C5-D5
		316	X	C7-D7
		317	X	C9-D9
		335	X	C11-D11
		413	X	E1-F1
		416	X	E3-F3
		417	X	E5-F5
		435	X	E7-F7

<p>DO NOT SCALE</p> <p>PROJECT: F-116 21</p> <p>GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT CAMPBELL CREEK P.S.</p>	<p>FLOMATCHER Co., Inc.</p> <p>P.O. BOX 1048 CORVALLIS, OREGON</p> <p>ALARM SWITCH CONTACT DEVELOPMENT</p>	<p>NO. DATE BY APP. DESCRIPTION</p> <p>DES. DWY CHK. TP</p> <p>DRN. RJB APD.</p> <p>SCALE: NONE</p>
---	--	---



PLAN SET No. 4 0 33 11861

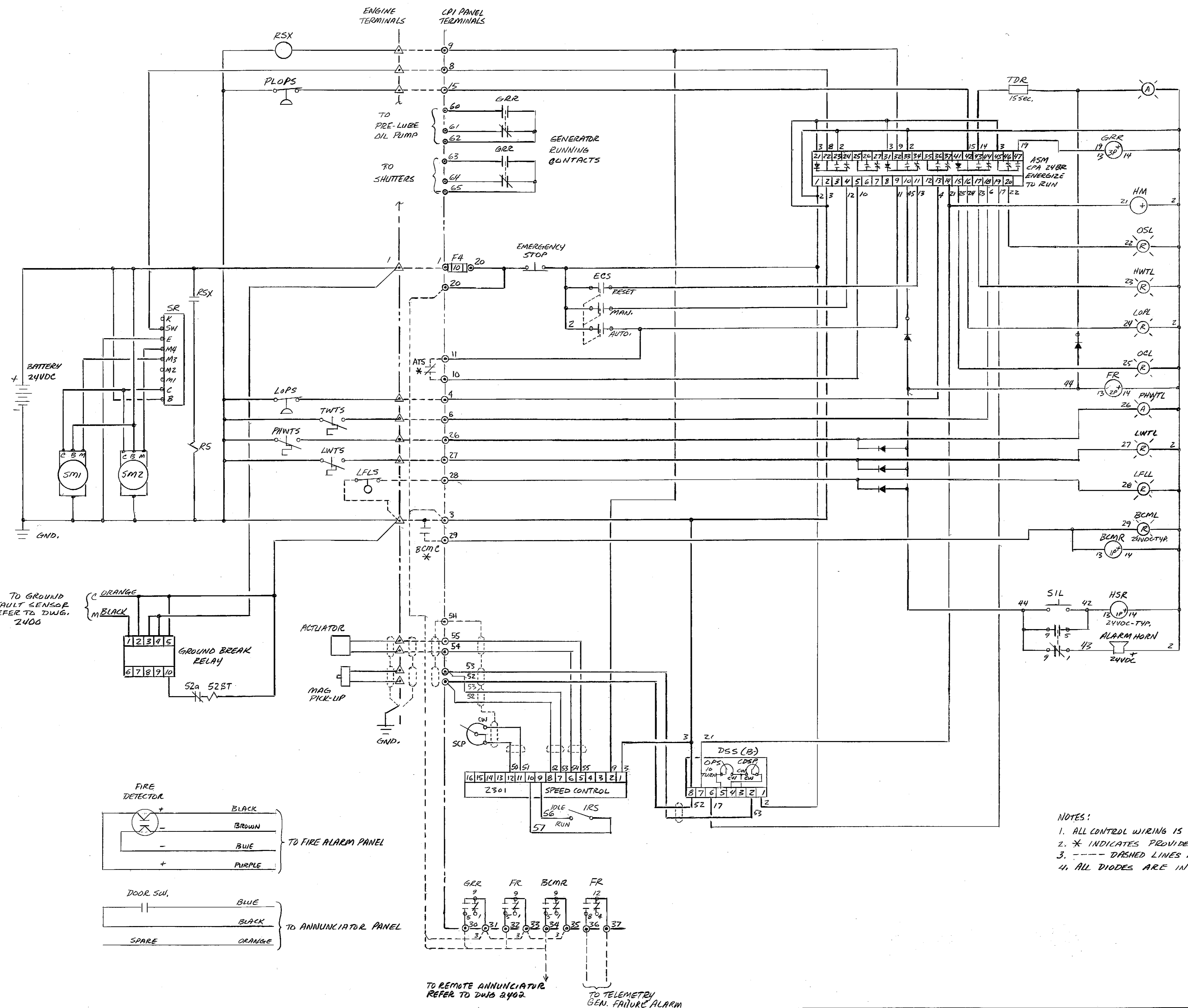


<p>PROJECT: F-116 21</p> <p>GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT CAMPBELL CREEK P.S.</p> <p>DO NOT SCALE</p> <p>TOLERANCES: UNLESS OTHERWISE SPECIFIED: FRACTIONAL ± 1/32 XX DECIMAL ± .01 XXX DECIMAL ± .005 ANGULAR ± 1/2°</p> <p>TRANSFER PLUG & RECEPTACLE WIRING SCHEMATIC</p> <p>SCALE: NONE</p>	<p>PROJECT: F-116 21</p> <p>GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT CAMPBELL CREEK P.S.</p> <p>FLOMATCHER Co., Inc.</p> <p>P.O. BOX 1048 CORVALLIS, OREGON</p> <p>VARIABLE SPEED PUMP CONTROL SYSTEM</p> <p>ALARM SWITCH CONTACT DEVELOPMENT</p> <p>DES. DWY CHK. TP</p> <p>DRN. RJB APD.</p> <p>SCALE: NONE</p>	<p>PROJECT: F-116 21</p> <p>GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT CAMPBELL CREEK P.S.</p> <p>FLOMATCHER Co., Inc.</p> <p>P.O. BOX 1048 CORVALLIS, OREGON</p> <p>VARIABLE SPEED PUMP CONTROL SYSTEM</p> <p>ALARM SWITCH CONTACT DEVELOPMENT</p> <p>DES. DWY CHK. TP</p> <p>DRN. RJB APD.</p> <p>SCALE: NONE</p>
---	--	--

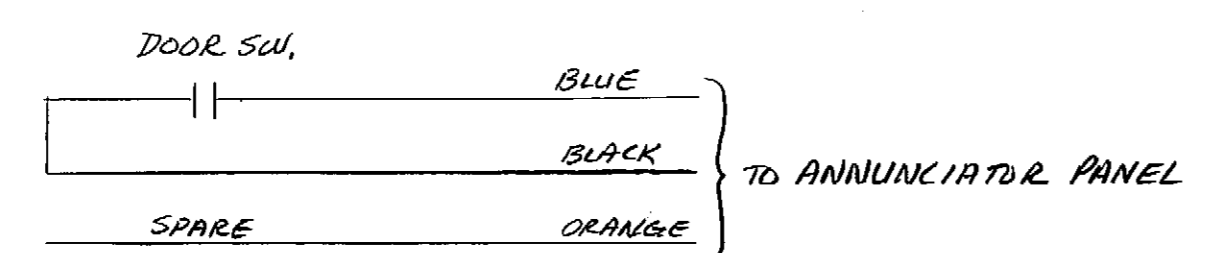
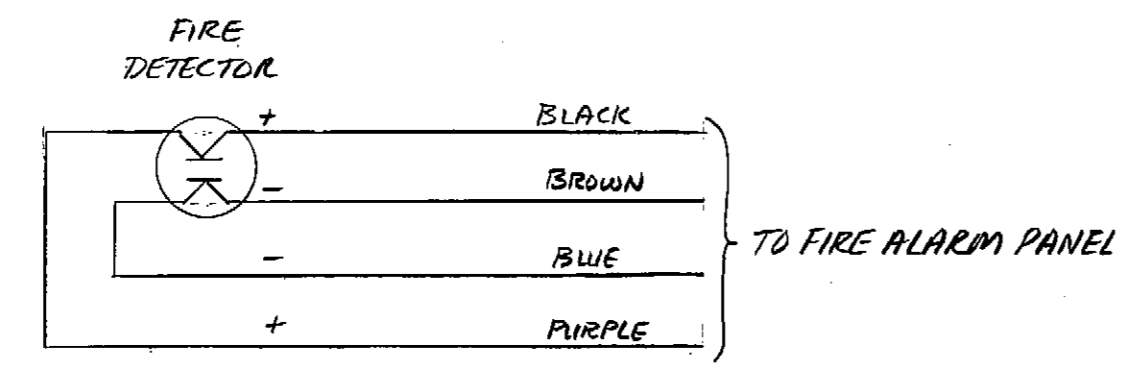
<p>PROJECT: F-116 21</p> <p>GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT CAMPBELL CREEK P.S.</p> <p>DO NOT SCALE</p> <p>TOLERANCES: UNLESS OTHERWISE SPECIFIED: FRACTIONAL ± 1/32 XX DECIMAL ± .01 XXX DECIMAL ± .005 ANGULAR ± 1/2°</p> <p>THIS DRAWING AND INFORMATION CONTAINED HEREIN IS THE PROPERTY OF FLOMATCHER CO., INC. AND MUST NOT BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF FLOMATCHER CO., INC.</p>	<p>PROJECT: F-116 21</p> <p>GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT CAMPBELL CREEK P.S.</p> <p>FLOMATCHER Co., Inc.</p> <p>P.O. BOX 1048 CORVALLIS, OREGON</p> <p>VARIABLE SPEED PUMP CONTROL SYSTEM</p> <p>ALARM SWITCH CONTACT DEVELOPMENT</p> <p>DES. DWY CHK. TP</p> <p>DRN. RJB APD.</p> <p>SCALE: NONE</p>	<p>PROJECT: F-116 21</p> <p>GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT CAMPBELL CREEK P.S.</p> <p>FLOMATCHER Co., Inc.</p> <p>P.O. BOX 1048 CORVALLIS, OREGON</p> <p>VARIABLE SPEED PUMP CONTROL SYSTEM</p> <p>ALARM SWITCH CONTACT DEVELOPMENT</p> <p>DES. DWY CHK. TP</p> <p>DRN. RJB APD.</p> <p>SCALE: NONE</p>
--	--	--

NOMENCLATURE

ITEM	DESCRIPTION
ASM	AUTO START MODULE
ATS	AUTO TRANSFER SWITCH
BCML	BATTERY CHARGER MALF. CONTACT
BCML	BATTERY CHARGER MALF. LIGHT
BCMR	BATTERY CHARGER MALF. RELAY
DSS	DUAL SPEED SWITCH
ECS	ENGINE CONTROL SWITCH
F	FUSE
FR	FAULT RELAY
GND	GROUND
GRR	GENERATOR RUNNING RELAY
HM	HOURLY METER
HSR	HORN SILENCE RELAY
HWTL	HI WATER TEMP. LIGHT
HWTLS	HI WATER TEMP. SWITCH
LFL	LOW FUEL LEVEL LIGHT
LFLS	LOW FUEL LEVEL SWITCH
LOPL	LOW OIL PRESS. LIGHT
LOPS	LOW OIL PRESS. SWITCH
LWTL	LOW WATER TEMP. LIGHT
LWTS	LOW WATER TEMP. SWITCH
OCL	OVERCRANK LIGHT
OSL	OVERSPEED LIGHT
PHWTL	PRE HI WATER TEMP. LIGHT
PHWTS	PRE HI WATER TEMP. SWITCH
PLOPL	PRE LOW OIL PRESS. LIGHT
PLOPS	PRE LOW OIL PRESS. SWITCH
RS	RUN SOLENOID
RSX	RUN SOLENOID AUXILIARY
SCP	SPEED CONTROL POTENTIOMETER
SIL	SILENCE SWITCH
SM	STARTER MOTOR
SS	STARTER SOLENOID
SSX	STARTER SOLENOID AUXILIARY
TDR	TIME DELAY RELAY
GRL	GENERATOR RUNNING LIGHT
SR	STARTER RELAY
52ST	CIRCUIT BREAKER SHUNT
52a	CIRCUIT BREAKER AUXILIARY CONTACT



TO GROUND
FAULT SENSOR
REFER TO DWG.
2400

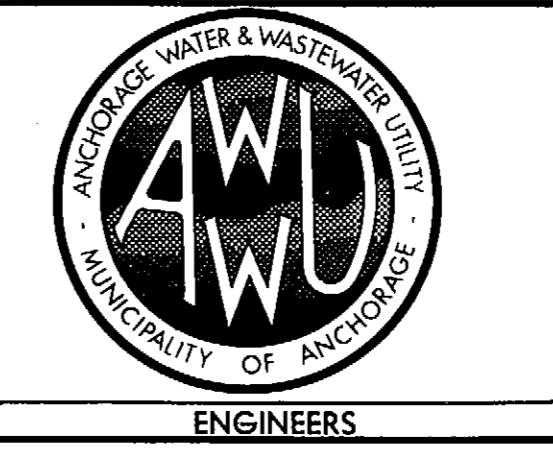


- NOTES:**
1. ALL CONTROL WIRING IS 14 AWG, TYPE SIS, 600V.
 2. * INDICATES PROVIDED BY OTHERS
 3. - - - DASHED LINES INDICATE FIELD WIRING BY OTHERS
 4. ALL DIODES ARE 1N4007 OR EQUIVALENT

CONTROLLED POWER INC.
14798 NE 95th
REDMOND, WASH 98052

GRAPHIC SCALE

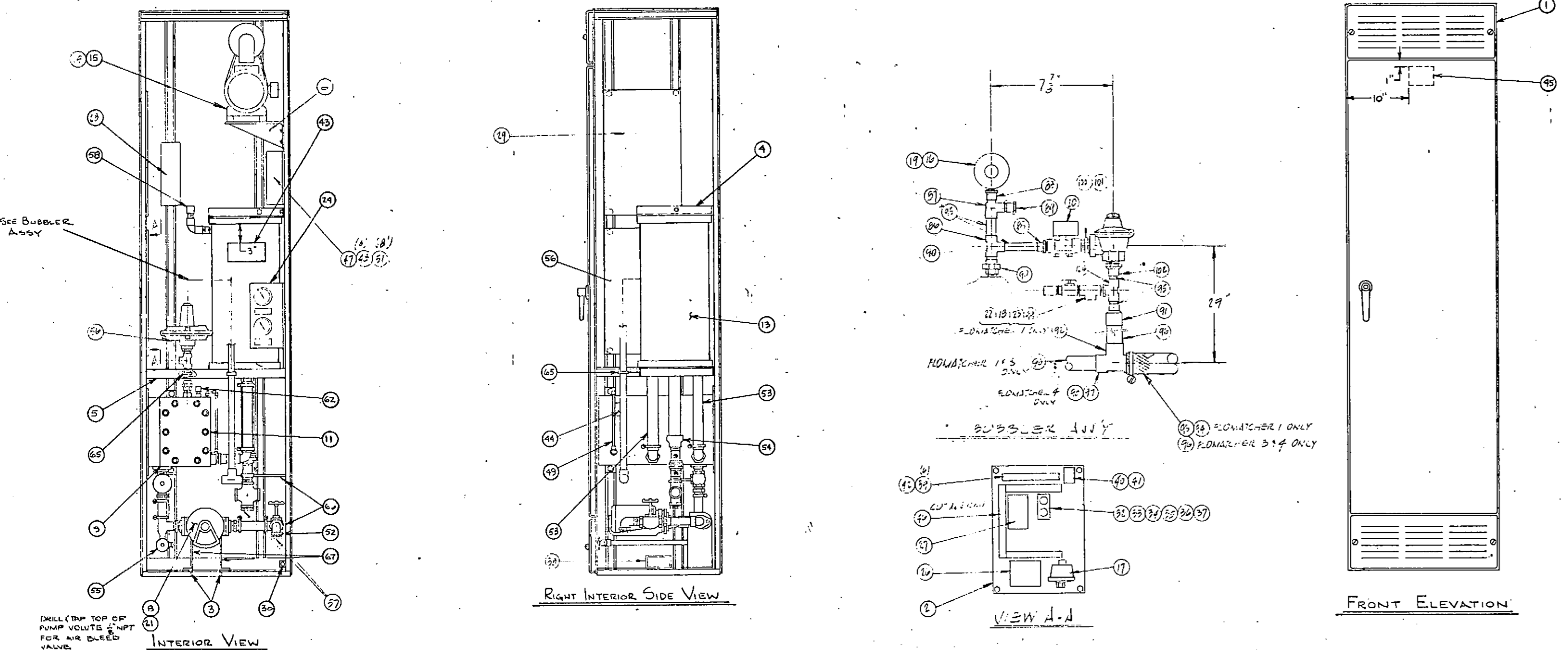
FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	OWN	CD	BY	DATA	OWN	CD	BY	
DESIGN											BASE				TELE				
STAKING											TOPO				ELEC				
ASBUILT											PROFILE				DESIGN				
CONTRACTOR											SAN SEWER				QUANTITIES				
INSPECTOR											STORM SEWER				PRELIMINARY	✓			
CONSTRUCTION RECORD											WATER				FINAL	✓			
											GAS				MUNICIPAL/STATE	✓			



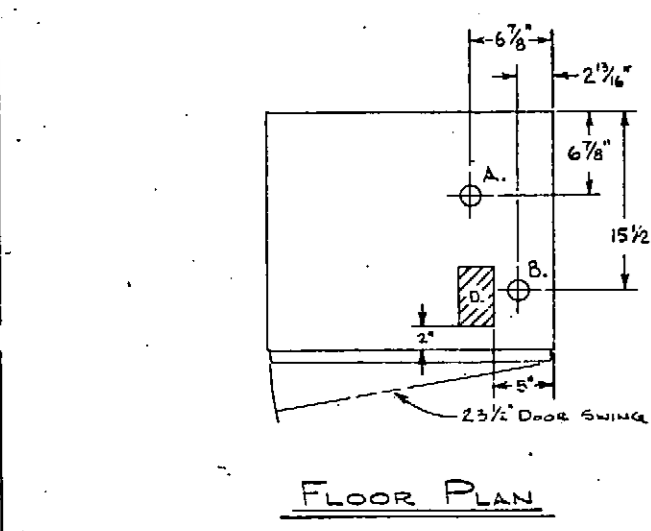
**MUNICIPALITY OF ANCHORAGE
ANCHORAGE WATER & WASTEWATER UTILITY**

PS #12 CAMPBELL CREEK PUMP STATION
EMERGENCY GENERATOR CONTROL
CRAIG TAYLOR EQUIP. CO. PO# RE89197
JOB# ZZZ6
DRAWING # 2401

SCALE	HOR. 1"=50'	DATE: 4-19-85	S. REYNOLDS	SHEET 1 of 1
	VER. 1"=5'	CITY GRID	SEWER GRID	



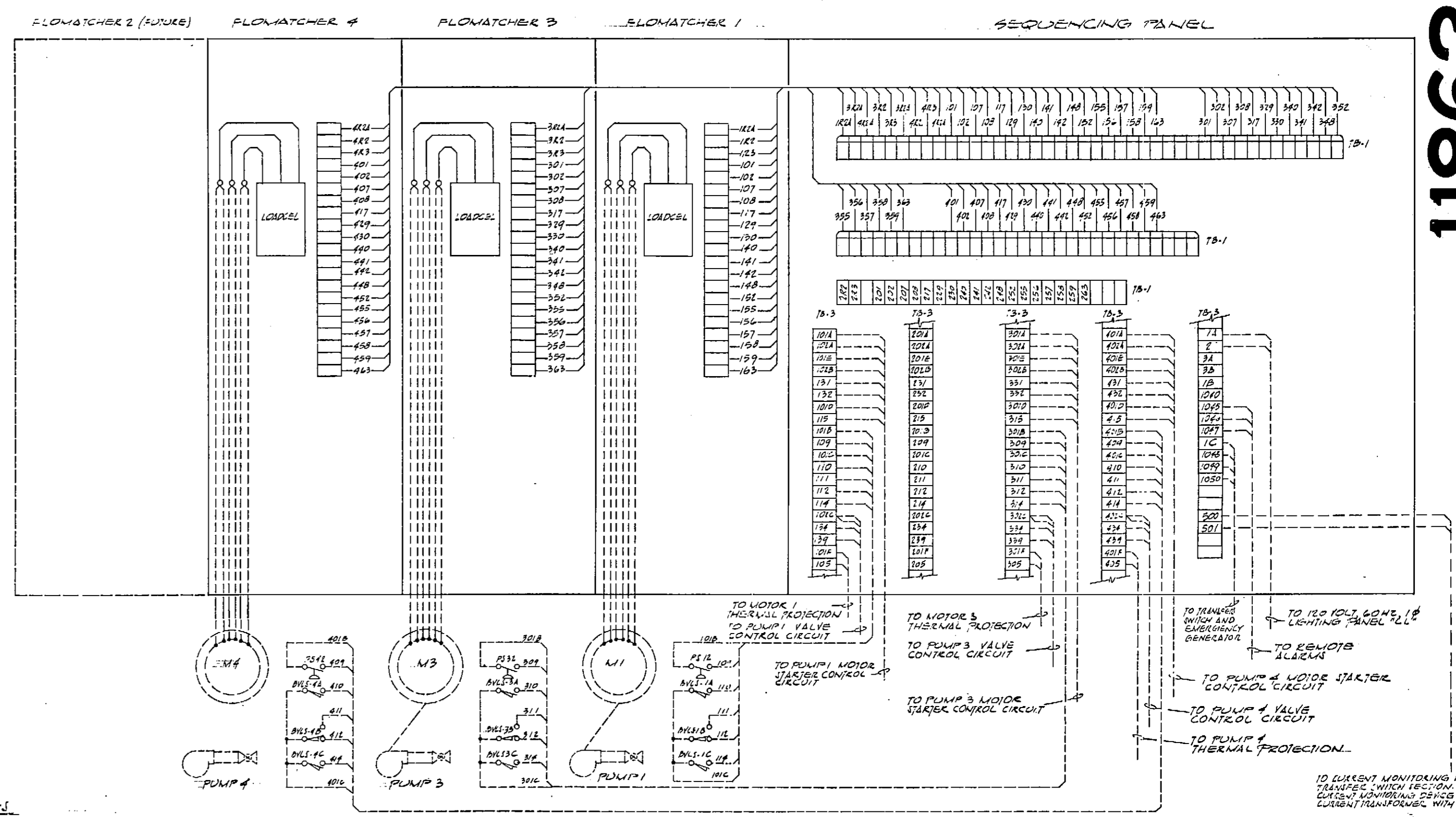
NOTES:
 1. See Draw. C-11877 For Nameplates.
 2. Shop Items 50, 73, 74, 87B Loose.
 3. Discard Shop Item TT.



A. 1/2" PSPB Electrolyte From Cooler Sleeve.
 B. 1/2" PSPB Electrolyte To Cooler Sleeve.
 D. 3"x4" Electrical Conduit Entrance Space.

DO NOT SCALE	
TOLERANCES UNLESS OTHERWISE SPECIFIED:	
FRACTIONAL: 1/32	ANGULAR: 1/2°
DECIMAL: .005	ANGULAR: 1/2°
ANGULAR: 1/2°	ANGULAR: 1/2°

10" Model By FloMatcher Assy
 C-11863

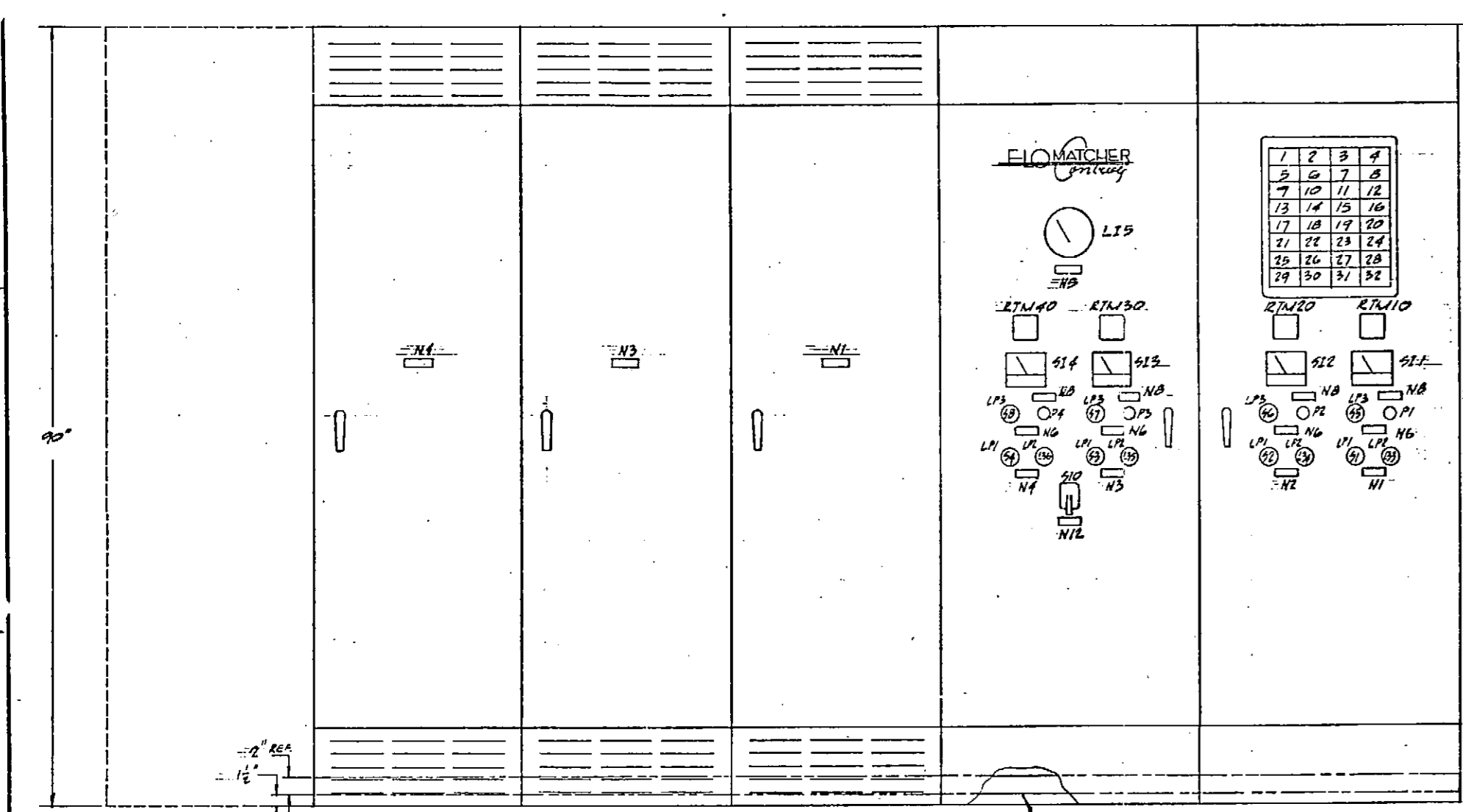


NOTES

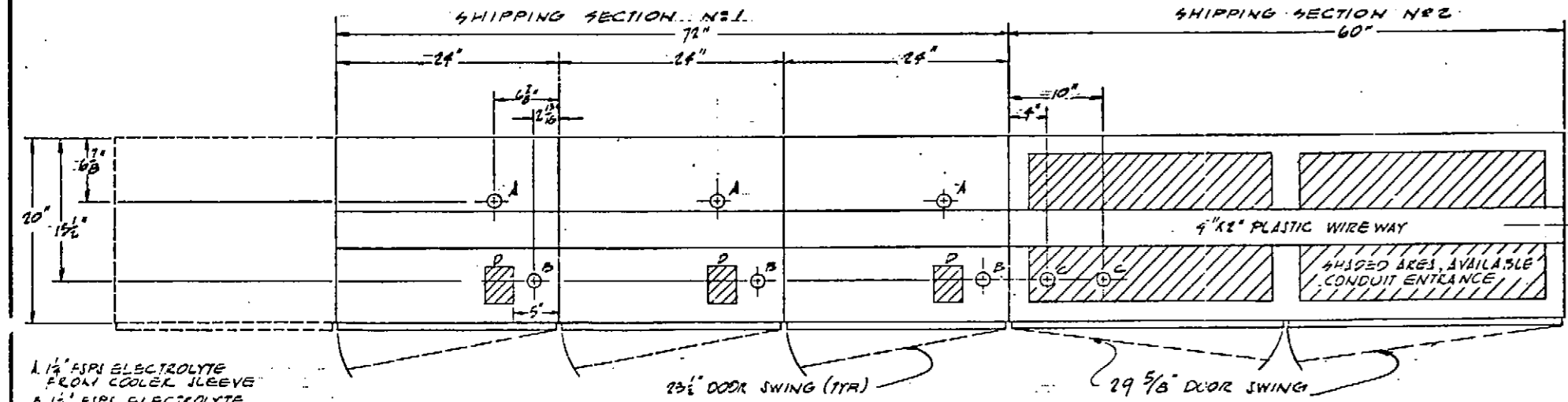
1. WIRING AND EQUIPMENT SHOWN OBTAINED SUPPLIED AND INSTALLED BY OTHERS
2. PRESSURE SWITCHES, RELAYS AND PS SUPPLIED BY CONTRACTOR MOUNTED AND WIRED BY OTHERS
3. CONTRACTOR NOTE: PROVIDE LEAD TERMINAL LUGS BEHIND AND USE WIRE BUSHINGS AND WIRE SLEEVES UP TO 2" 3/4" CABLES PER PHASE

DO NOT SCALE	
TOLERANCES UNLESS OTHERWISE SPECIFIED:	
FRACTIONAL: 1/32	ANGULAR: 1/2°
DECIMAL: .005	ANGULAR: 1/2°
ANGULAR: 1/2°	ANGULAR: 1/2°

PROJECT: C-11863
 DATE: 7-7-53
 DRAWN: J.S.
 CHECKED: J.S.
 SCALE: 1/2"=1'-0"



FRONT ELEVATION



FLOOR PLAN

1. 1/4" PSPB ELECTROLYTE FROM COOLER SLEEVE
 2. 1/4" PSPB ELECTROLYTE TO COOLER SLEEVE
 3. 1/4" PSPB BUBBLER TUBES
 D. 3"x4" ELECTRICAL CONDUIT ENTRANCE

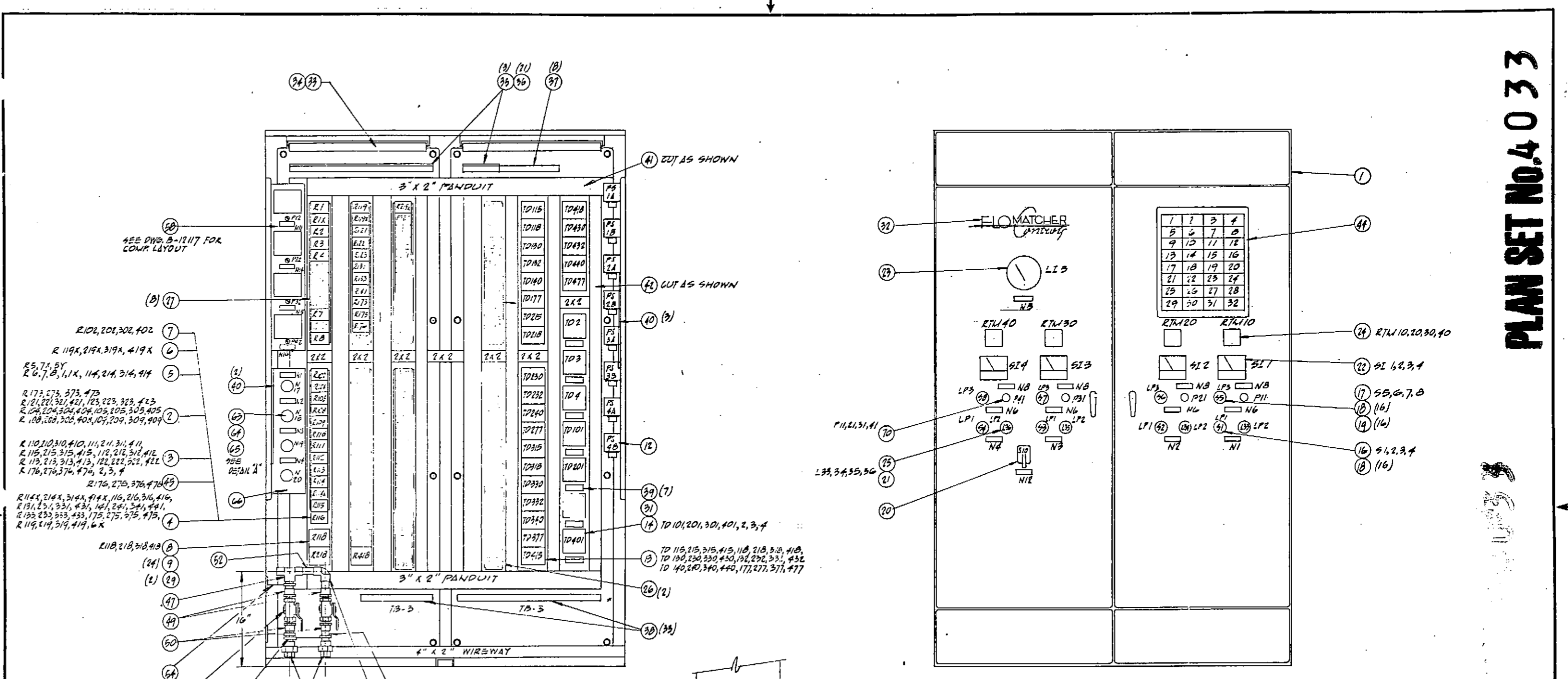
NAMEPLATE SCHEDULE			
ITEM	DESCRIPTION	PKT NO	UNIT
1	CONTROL POWER FAILURE PUMP 1	L5L 032	A
2	CONTROL POWER FAILURE PUMP 2	L5L 033	A
3	CONTROL POWER FAILURE PUMP 3	L5L 034	A
4	CONTROL POWER FAILURE PUMP 4	L5L 035	A
5	ELECTROLYTE HIGH TEMPERATURE PUMP 1	L5L 036	A
6	ELECTROLYTE HIGH TEMPERATURE PUMP 2	L5L 037	A
7	ELECTROLYTE HIGH TEMPERATURE PUMP 3	L5L 038	A
8	ELECTROLYTE HIGH TEMPERATURE PUMP 4	L5L 039	A
9	SPEED CONTROL FAILURE PUMP 1	L5L 040	A
10	SPEED CONTROL FAILURE PUMP 2	L5L 041	A
11	SPEED CONTROL FAILURE PUMP 3	L5L 042	A
12	SPEED CONTROL FAILURE PUMP 4	L5L 043	A
13	MOTOR OVERLOAD PUMP 1	L5L 044	A
14	MOTOR OVERLOAD PUMP 2	L5L 045	A
15	MOTOR OVERLOAD PUMP 3	L5L 046	A
16	MOTOR OVERLOAD PUMP 4	L5L 047	A
17	LOW DISCHARGE PRESSURE PUMP 1	L5L 048	A
18	LOW DISCHARGE PRESSURE PUMP 2	L5L 049	A
19	LOW DISCHARGE PRESSURE PUMP 3	L5L 050	A
20	LOW DISCHARGE PRESSURE PUMP 4	L5L 051	A
21	DISCHARGE VALVE NOT FULLY OPEN PUMP 1	L5L 052	A
22	DISCHARGE VALVE NOT FULLY OPEN PUMP 2	L5L 053	A
23	DISCHARGE VALVE NOT FULLY OPEN PUMP 3	L5L 054	A
24	DISCHARGE VALVE NOT FULLY OPEN PUMP 4	L5L 055	A
25	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 1	L5L 056	A
26	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 2	L5L 057	A
27	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 3	L5L 058	A
28	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 4	L5L 059	A
29	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 1	L5L 060	A
30	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 2	L5L 061	A
31	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 3	L5L 062	A
32	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 4	L5L 063	A

ANNUNCIATOR SCHEDULE	
NO.	DESCRIPTION
1	CONTROL POWER FAILURE PUMP 1
2	CONTROL POWER FAILURE PUMP 2
3	CONTROL POWER FAILURE PUMP 3
4	CONTROL POWER FAILURE PUMP 4
5	ELECTROLYTE HIGH TEMPERATURE PUMP 1
6	ELECTROLYTE HIGH TEMPERATURE PUMP 2
7	ELECTROLYTE HIGH TEMPERATURE PUMP 3
8	ELECTROLYTE HIGH TEMPERATURE PUMP 4
9	SPEED CONTROL FAILURE PUMP 1
10	SPEED CONTROL FAILURE PUMP 2
11	SPEED CONTROL FAILURE PUMP 3
12	SPEED CONTROL FAILURE PUMP 4
13	MOTOR OVERLOAD PUMP 1
14	MOTOR OVERLOAD PUMP 2
15	MOTOR OVERLOAD PUMP 3
16	MOTOR OVERLOAD PUMP 4
17	LOW DISCHARGE PRESSURE PUMP 1
18	LOW DISCHARGE PRESSURE PUMP 2
19	LOW DISCHARGE PRESSURE PUMP 3
20	LOW DISCHARGE PRESSURE PUMP 4
21	DISCHARGE VALVE NOT FULLY OPEN PUMP 1
22	DISCHARGE VALVE NOT FULLY OPEN PUMP 2
23	DISCHARGE VALVE NOT FULLY OPEN PUMP 3
24	DISCHARGE VALVE NOT FULLY OPEN PUMP 4
25	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 1
26	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 2
27	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 3
28	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 4
29	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 1
30	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 2
31	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 3
32	DISCHARGE VALVE FAIL TO CLOSE COMPLETELY PUMP 4

- NOTES:**
 1. EXTERIOR FINISH TO BE AIA #1 LIGHT GRAY ENAMEL
 2. CUBICLES TO BE SHIPPED IN TWO SECTIONS
 3. INSTRUMENT NAMEPLATES MTD. INTERNALLY
 4. USE DWG. L-1052 FOR FLOWMETER STANDARD NAMEPLATE 17144
 5. 4.4 DENOTES OUR NAMEPLATE MTD. INTERNALLY

DO NOT SCALE	
TOLERANCES UNLESS OTHERWISE SPECIFIED:	
FRACTIONAL: 1/32	ANGULAR: 1/2°
DECIMAL: .005	ANGULAR: 1/2°
ANGULAR: 1/2°	ANGULAR: 1/2°

PROJECT: C-11863
 DATE: 7-7-53
 DRAWN: J.S.
 CHECKED: J.S.
 SCALE: 1/2"=1'-0"



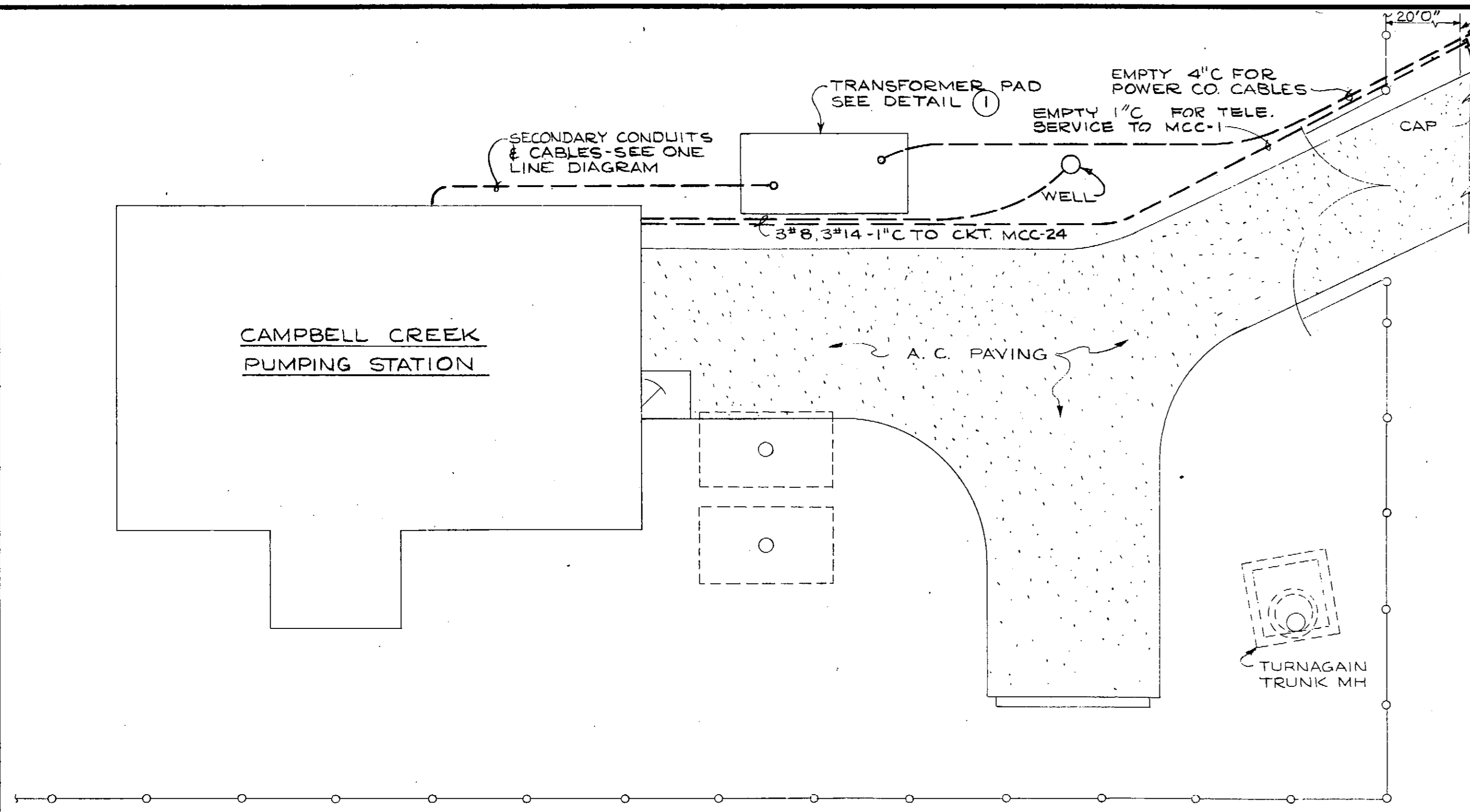
DETAIL A

- NOTES:**
 1. REFER TO DWG. C-11877 FOR NAMEPLATES AND ANNUNCIATOR DESCRIPTION
 2. THE FOLLOWING ITEMS BE SHIPPED LOOSE: 1761, 15, 30

DO NOT SCALE	
TOLERANCES UNLESS OTHERWISE SPECIFIED:	
FRACTIONAL: 1/32	ANGULAR: 1/2°
DECIMAL: .005	ANGULAR: 1/2°
ANGULAR: 1/2°	ANGULAR: 1/2°

PROJECT: C-11863
 DATE: 7-7-53
 DRAWN: J.S.
 CHECKED: J.S.
 SCALE: 1/2"=1'-0"

REDUCED PRINT

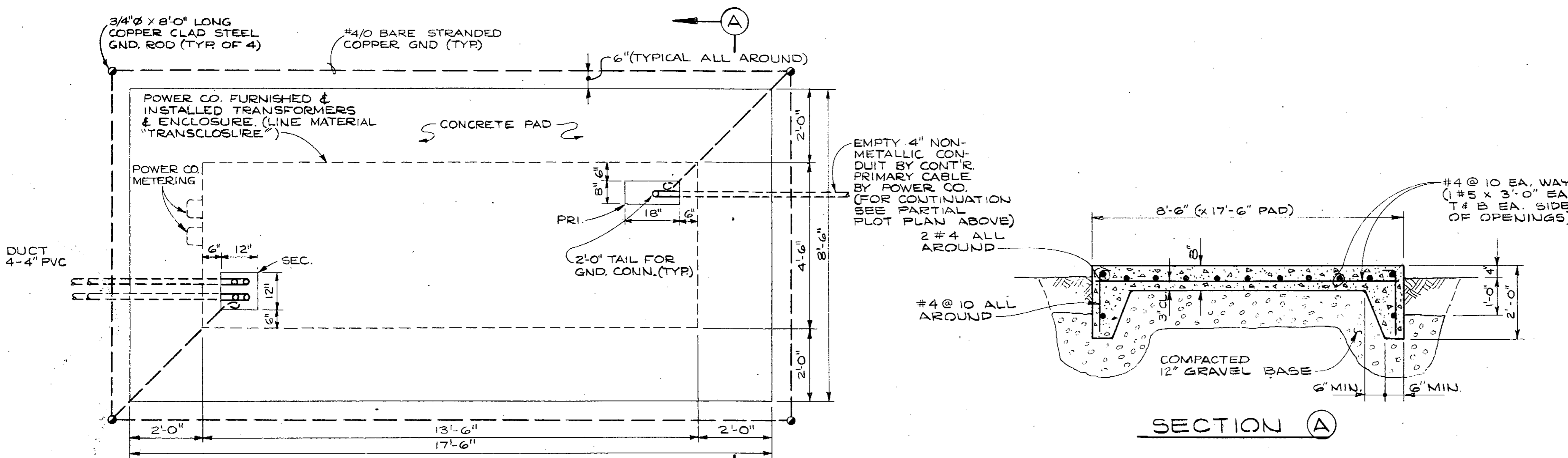


PANEL SCHEDULE							
PANEL	VOLTS	MAIN LUG RATING	MOUNTING	CKT. NO.	BRANCH CKT. BRKR. RATING	NO. OF ACTIVE CKTS.	NO. OF SPARE CKTS.
LL	120/208-3Ø, 4W	100A	FLUSH IN "MCC"	5 THRU 7	15A-1P	14	1
				10 THRU 13,	20A-1P	9	3
				19 THRU 24,			
				28 & 29			
				THRU 4, 8, 9, 14	20A-2P	1	0
				THRU 18,	25A-1P	2	0
				25			
				30 & 31			

NOTE: PROVIDE RED HANDLE BREAKER ON CKT'S LL-24 & LL-28 (TELEMETERING EQUIP) & LL-25 (FIRE ALARM PANEL)

- ### ELECTRICAL LEGEND
- ⓪ - PENDANT FIXTURE OUTLET
 - Ⓜ - WALL FIXTURE OUTLET
 - Ⓛ - FLUORESCENT FIXTURE OUTLET
 - Ⓢ - FLOODLIGHT OUTLET - ARROW DENOTES DIRECTION TO BE AIMED.
 - Ⓣ - THERMOSTAT
 - Ⓜ₅ - MOTOR, HP INDICATED
 - Ⓜ₂₀₀ - MOTOR, WOUND ROTOR TYPE, HP INDICATED
 - Ⓟ - PUSHBUTTON STATION
 - Ⓟ_L - SELECTOR SWITCH
 - Ⓢ_V - SOLENOID VALVE
 - Ⓟ_S - LIMIT SWITCH
 - Ⓟ_F - FLOAT SWITCH
 - Ⓟ_P - PRESSURE SWITCH
 - Ⓟ_{FC} - FIRE DETECTOR-COMB. TEMP. & RATE OF RISE
 - Ⓟ_{FT} - FIRE DETECTOR-FIXED TEMPERATURE
 - Ⓟ_{FM} - FIRE ALARM MANUAL STATION
 - Ⓟ_{DS} - DOOR ALARM LIMIT SWITCH
 - Ⓟ_{DK} - DOOR ALARM KEY SWITCH
 - Ⓟ_{PE} - PHOTOELECTRIC CONTROL
 - Ⓢ - DUPLEX 15A, 125V 2P 3W RECEPT.
 - Ⓝ - JUNCTION BOX
 - S₂ - SINGLE POLE SWITCH } LETTER DENOTES SWITCHING
 - S₃ - 3 WAY SWITCH
 - S_{FP} - FAN SWITCH W/PILOT LIGHT
 - - BRANCH CIRCUIT OR FEEDER EXPOSED WITH GENERAL ROUTE INDICATED
 - - - - BRANCH CIRCUIT OR FEEDER IN FLOOR OR BELOW GRADE
 - - - - BRANCH CIRCUIT OR FEEDER IN WALL OR CEILING
 - ||||| - FLEXIBLE CONDUIT
 - - - - FIRE ALARM CIRCUIT
 - Ⓢ LL-1,3 - HOME RUN TO PANEL W/PANEL LETTER & CIRCUIT NUMBER INDICATED. CROSS-BARS DENOTE NUMBER OF CONDUCTORS. NO CROSSBARS INDICATE 2 CONDUCTORS
 - - CIRCUIT DOWN
 - ← - CIRCUIT UP
 - Ⓟ - PACKAGE CONTROL SYSTEM W/DISCONNECTING MEANS
 - - - - BRANCH CIRCUIT OR FEEDER EXPOSED ON CEILING OF FLOOR BELOW.

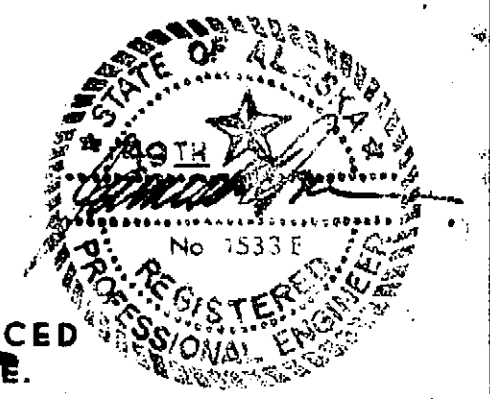
PARTIAL PLOT PLAN - ELECTRICAL
 SCALE: 1" = 10'-0"



NOTE: VERIFY ALL TRANSFORMER PAD DETAILS, GROUNDING DETAILS, DIMENSIONS & METERING WITH POWER COMPANY.

PLAN
 SECTION A
 TRANSFORMER PAD DETAIL ①
 SCALE: 1/2" = 1'-0"

- SUBSCRIPT ADDED TO ANY SYMBOL DENOTES:
- WP - WEATHERPROOF, NEMA 4
 - +5'-0" - MOUNTING HEIGHT ABOVE FLOOR
 - Ⓟ - LEVEL ELEMENT
 - EX - EXPLOSION PROOF

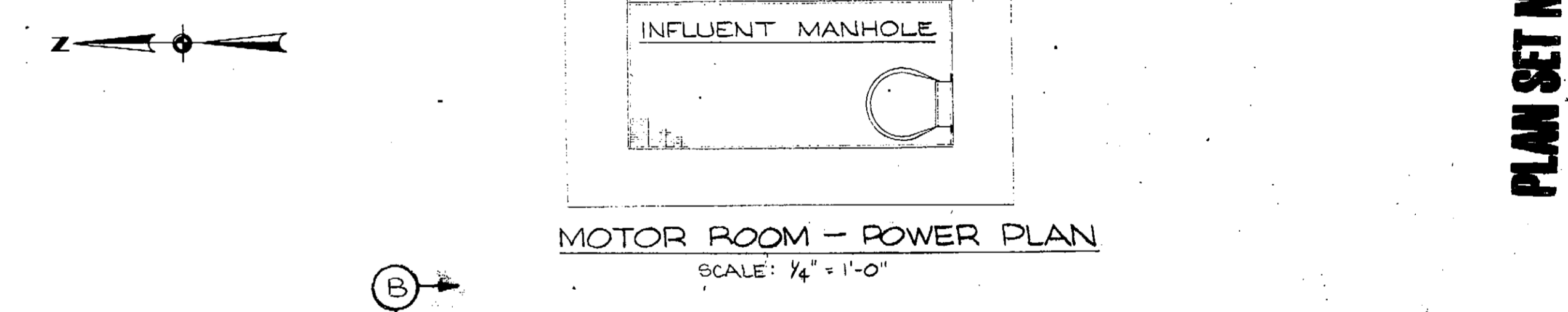
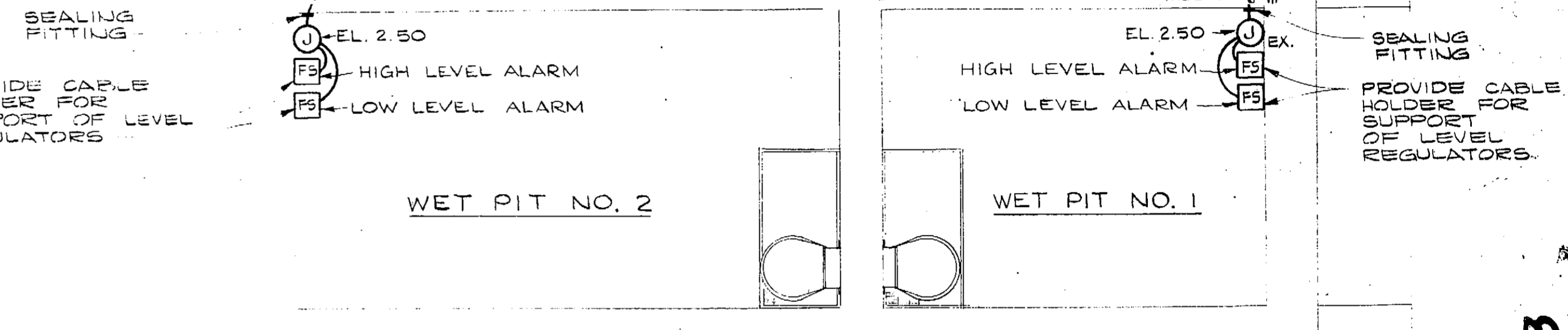
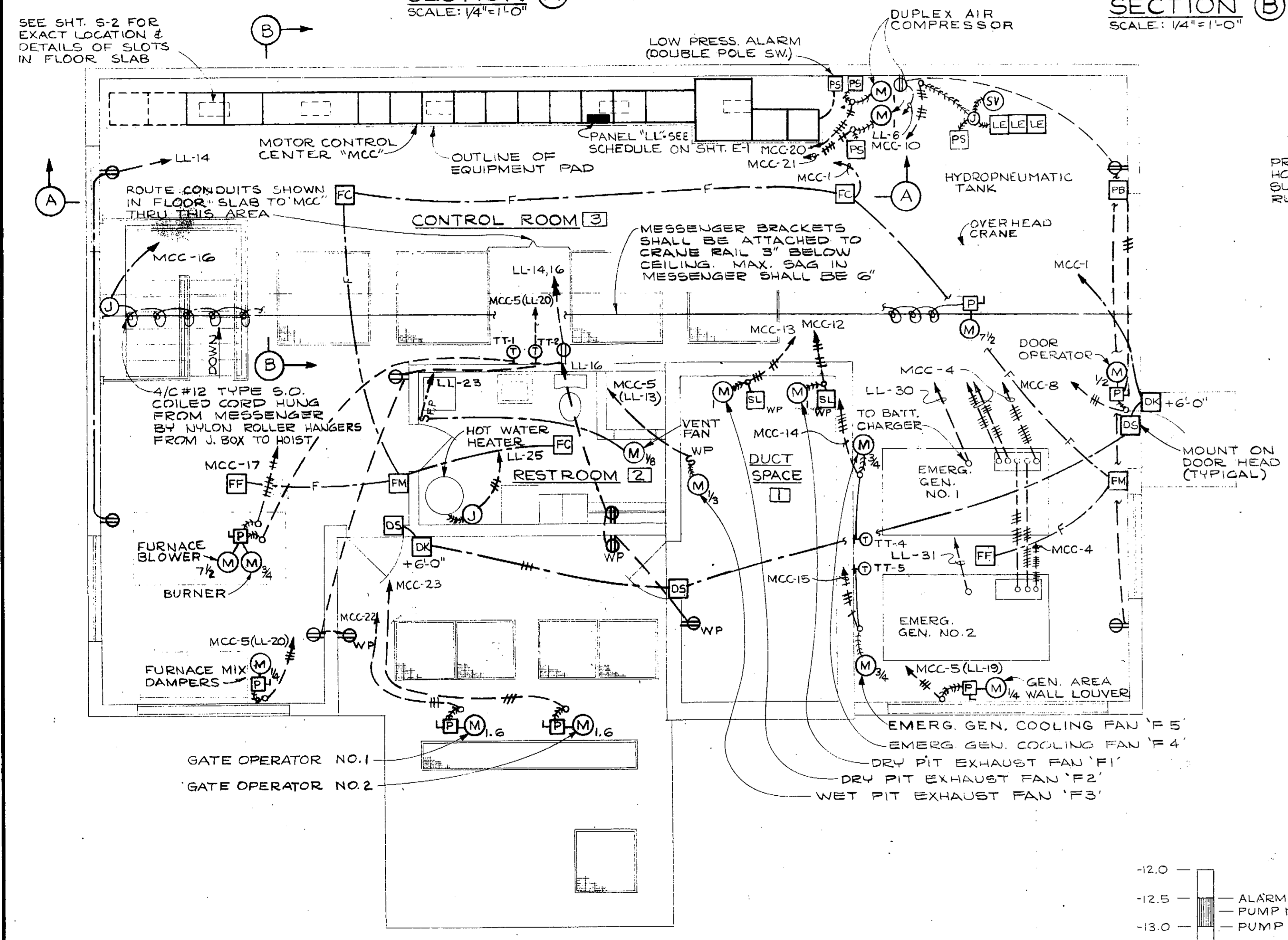
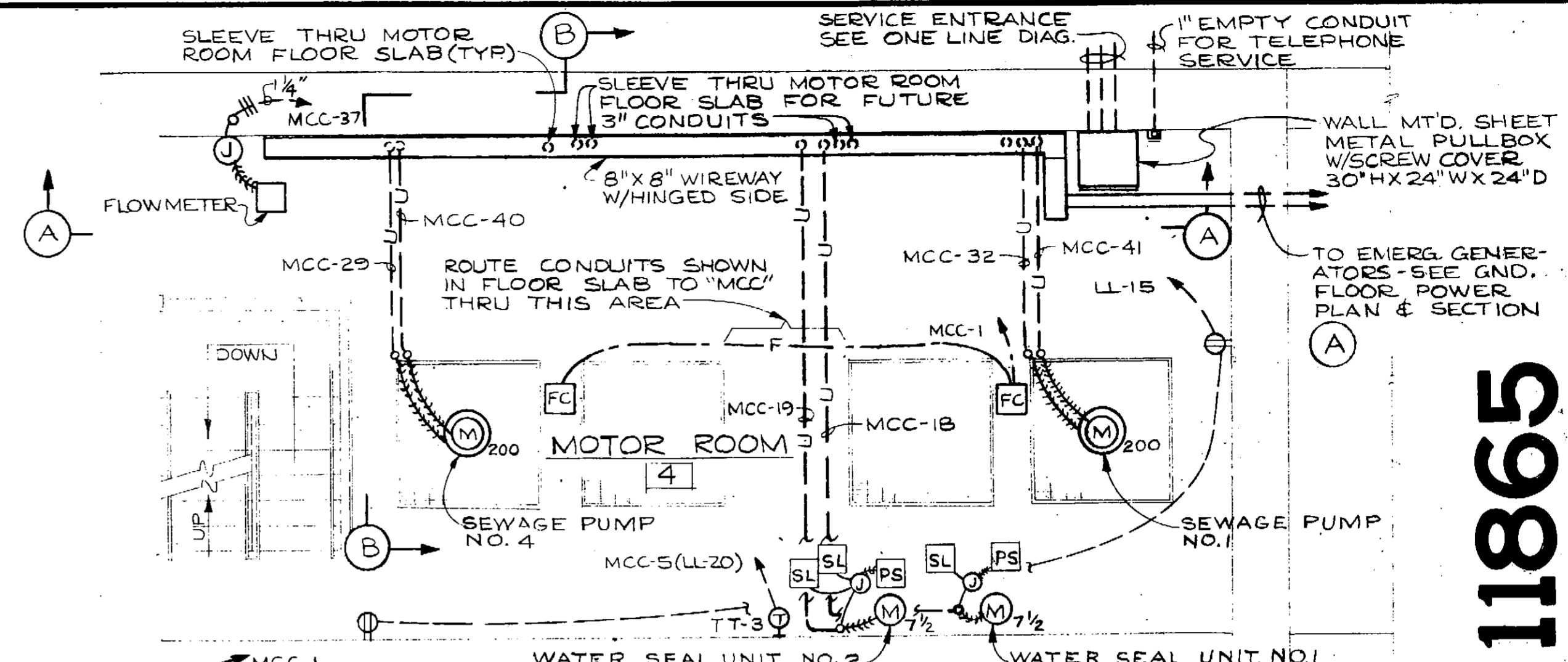
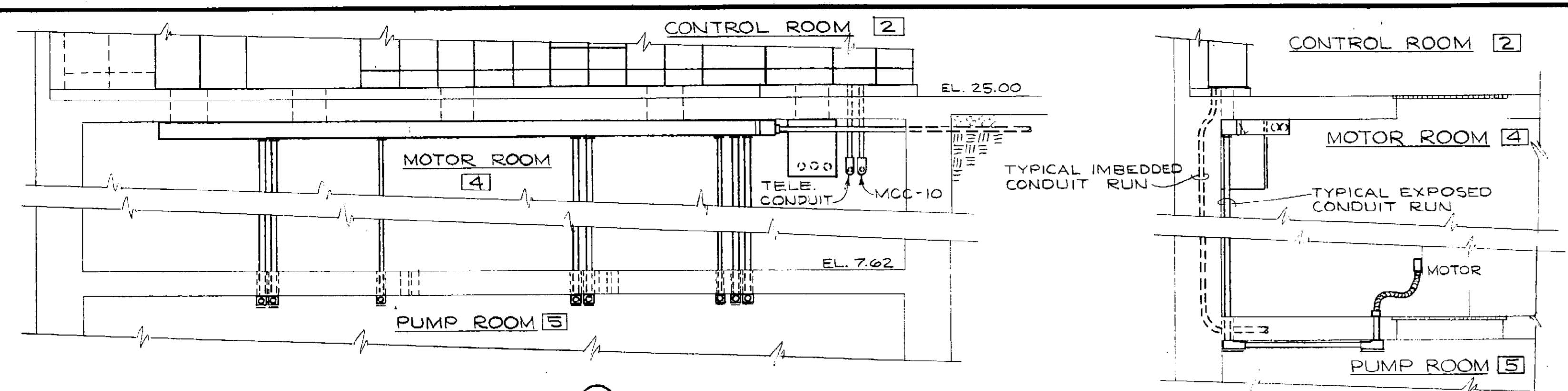


DESIGNED LRI	APPROVED <i>[Signature]</i>
DRAWN DLF, DRS	SCALE AS SHOWN DATE APR, 1972
CHECKED ECK	FILE 70-P680-10142
DATE NO.	REVISION

BOROUGH ENGINEERS
 A JOINT VENTURE
 TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

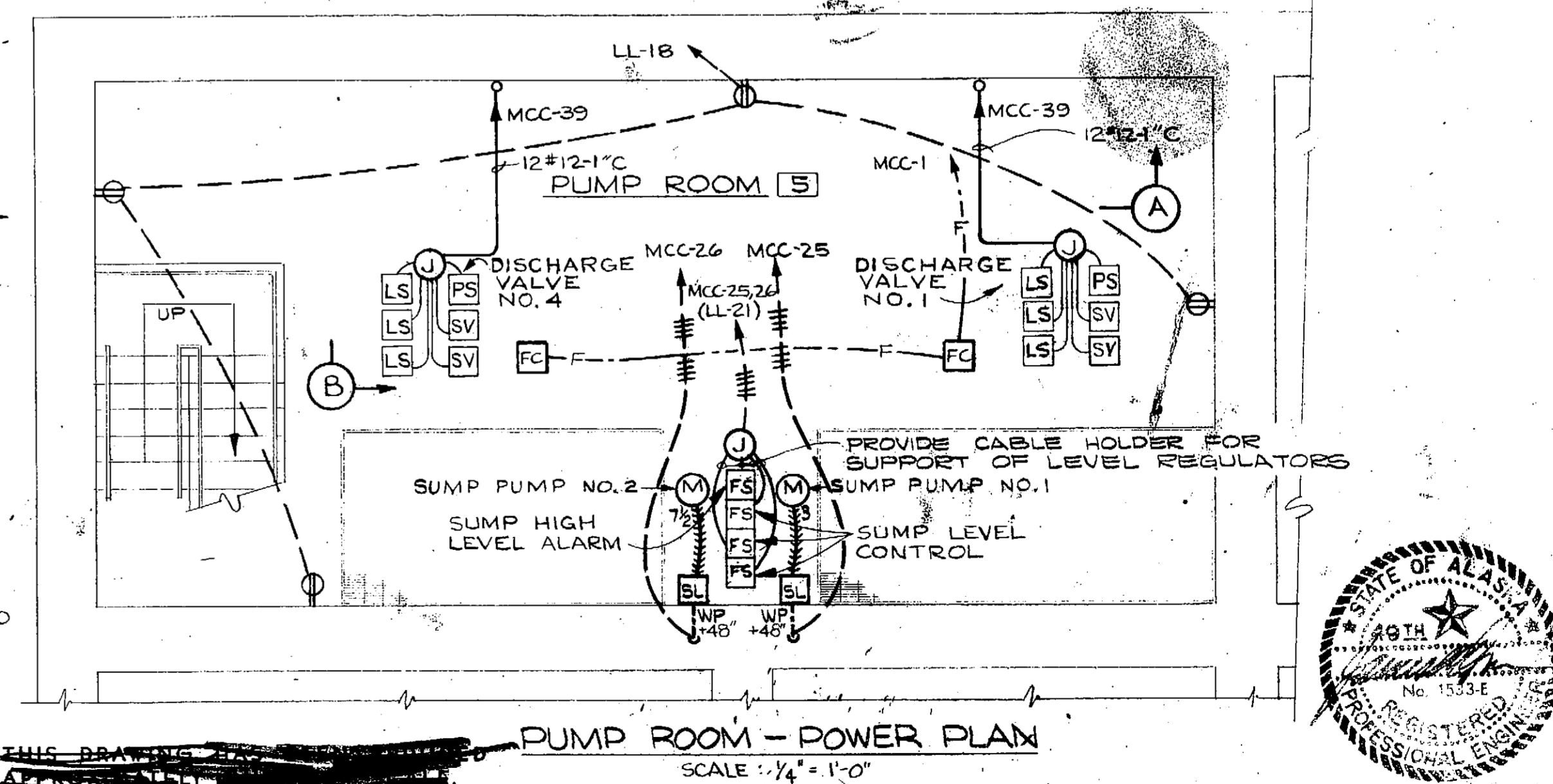
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
ELECTRICAL PLOT PLAN



PUMP SCHEDULE SUMP PUMPS

-12.0	ALARM @ EL. -12.50
-12.5	PUMP NO.2 ON @ EL. -12.75
-13.0	PUMP NO.1 ON @ EL. -13.00
-13.5	
-14.0	
-14.5	
-15.0	BOTH PUMPS OFF @ EL. -15.00

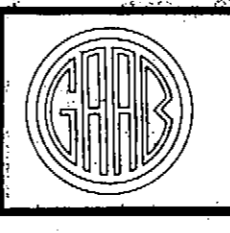


NOTE:

- THE DRY PIT EXHAUST FAN MOTORS & GATE OPERATOR MOTORS SHALL CONFORM TO THE REQUIREMENTS FOR OUTDOOR LOCATIONS
- SUMP PUMPS SHALL CONFORM TO THE REQUIREMENTS FOR HAZARDOUS LOCATIONS.

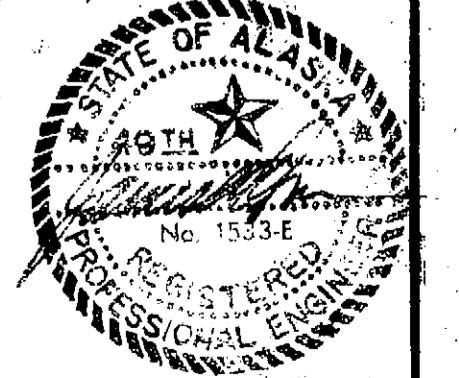
DESIGNED	LR1	APPROVED	<i>[Signature]</i>
DRAWN	H.R., DRS.	SCALE	AS SHOWN
DATE	NO.	REVISION	BY
CHECKED	ECK	FILE	70-P680-10143

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



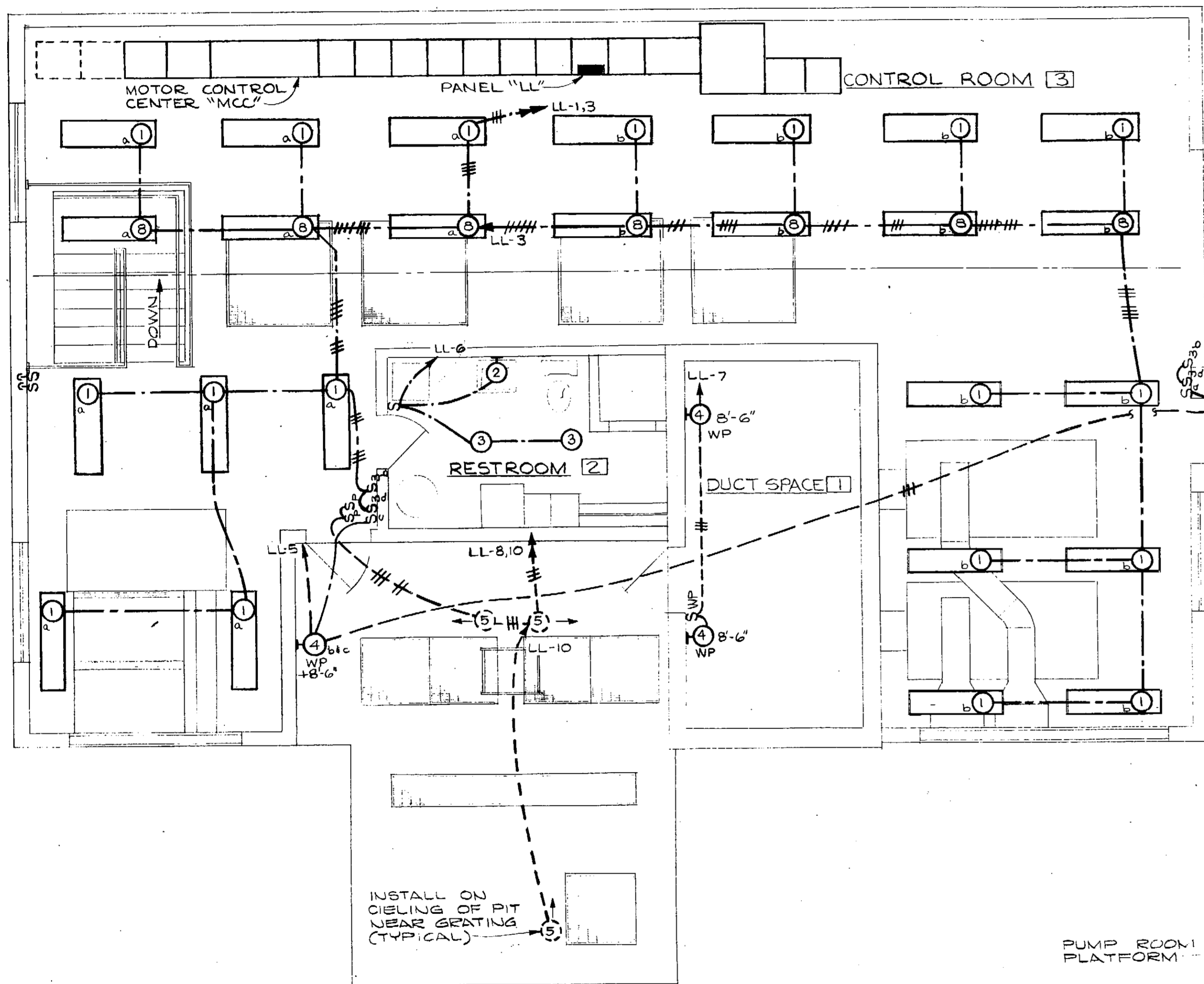
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
ELECTRICAL POWER PLANS



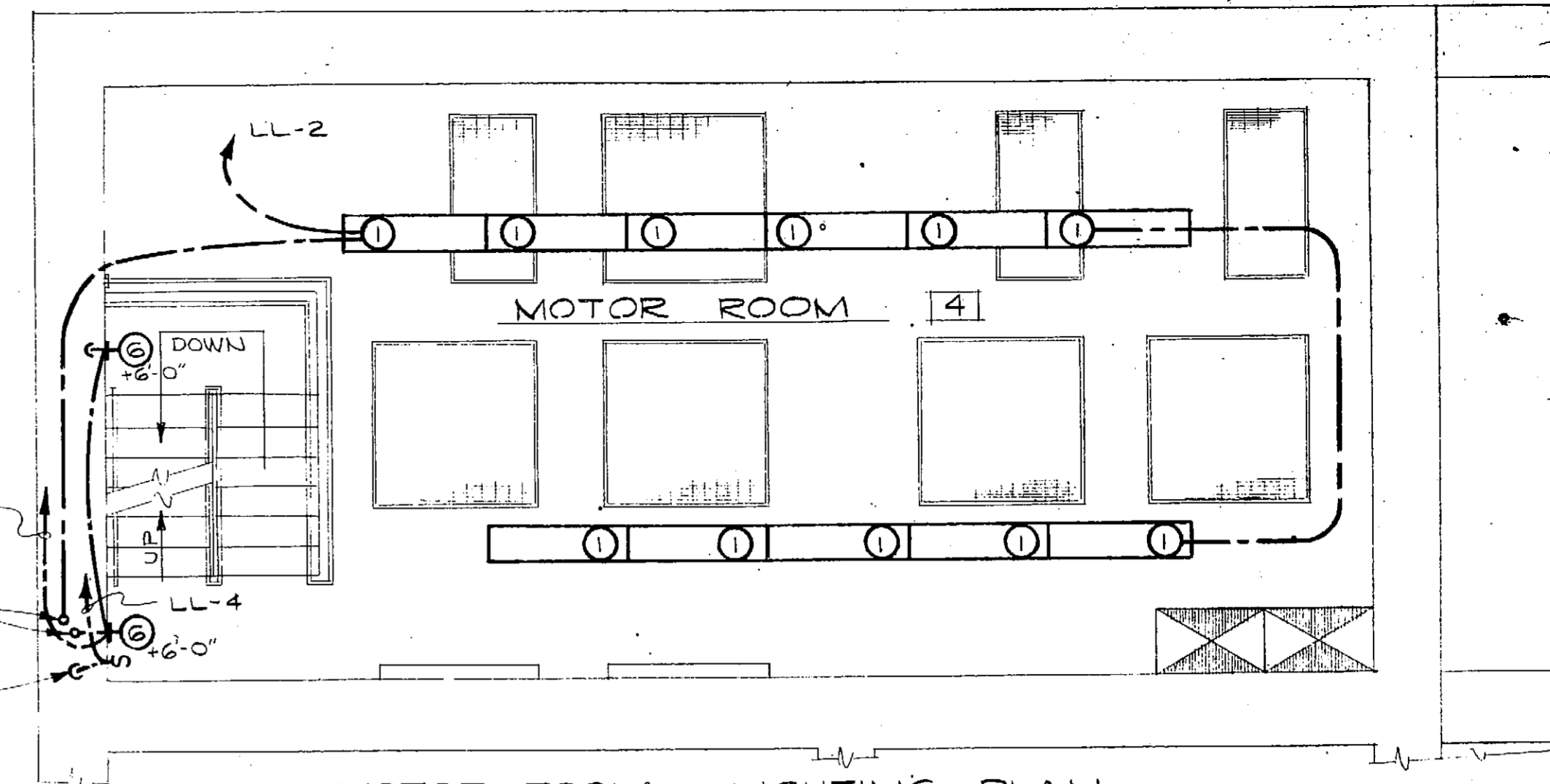
FIXTURE SCHEDULE

FIXT. NO.	MFG'R.	CAT. NO.	LAMP		MT'G.			REMARKS	277V	120V
			QTY.	TYPE	C	R	W/P			
1	GUTH	M4420/120	2	F40CW			X	6" CHAIN MOUNTING		X
2	PRESCOLITE	WB-24	1	100A			X	W/GROUNDED OUTLET		X
3	BENJAMIN	ED-495	2	100A	X					X
4	STONCO	G62101G	1	200A			X	W/GUARD		X
5	APPLETON	G-6000-1	1	Q500T3	X			NARROW BEAM SPREAD		X
6	PRESCOLITE	4022	1	100A			X			X
7	GUTH	VP6762/120/E4	2	F40CW			X	MOUNT VERTICALLY WITH BRACKETS		X
8	GUTH	M4400/120	2	F40CW	X					X

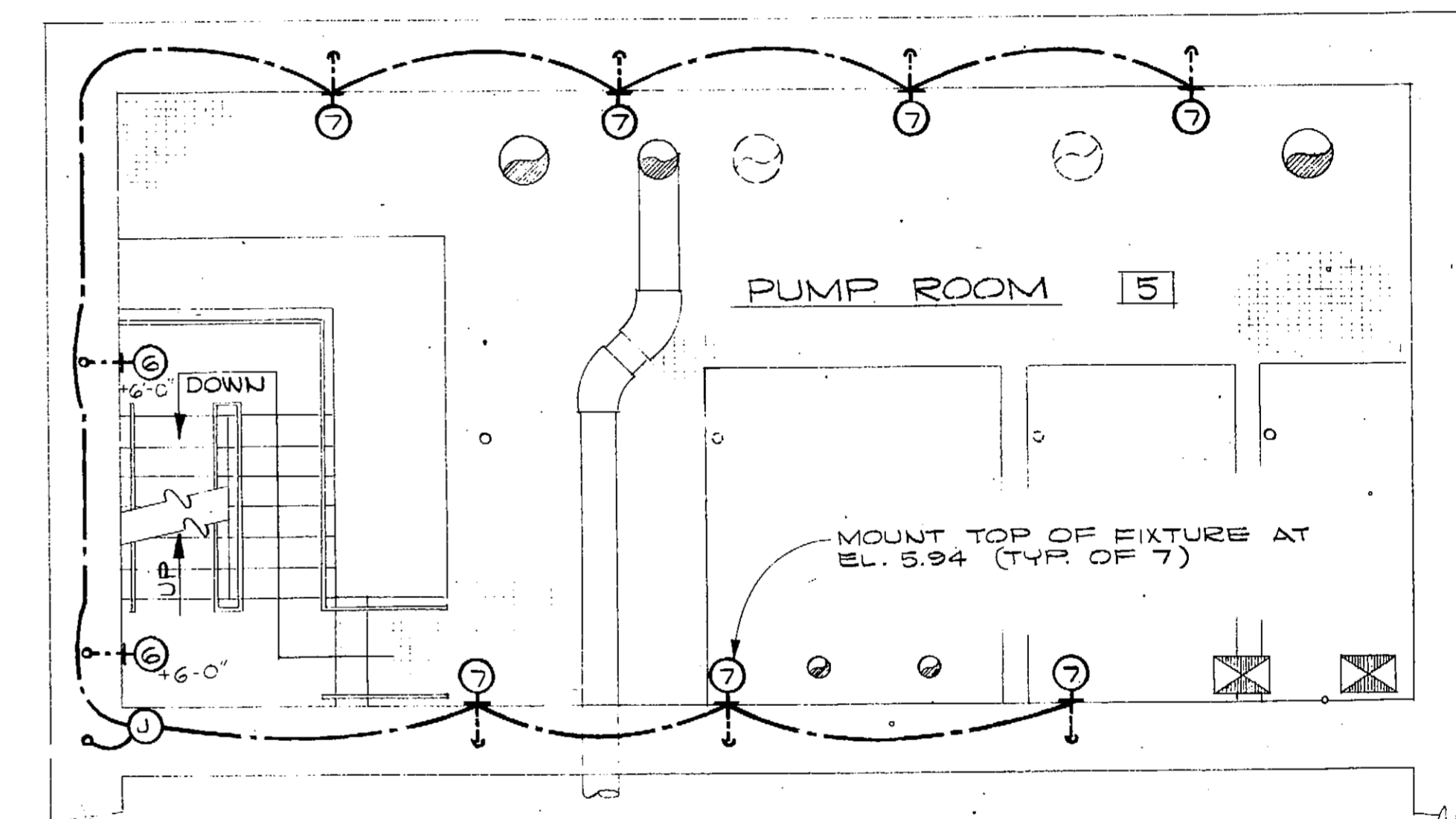


GROUND FLOOR - LIGHTING PLAN
SCALE: 1/4" = 1'-0"

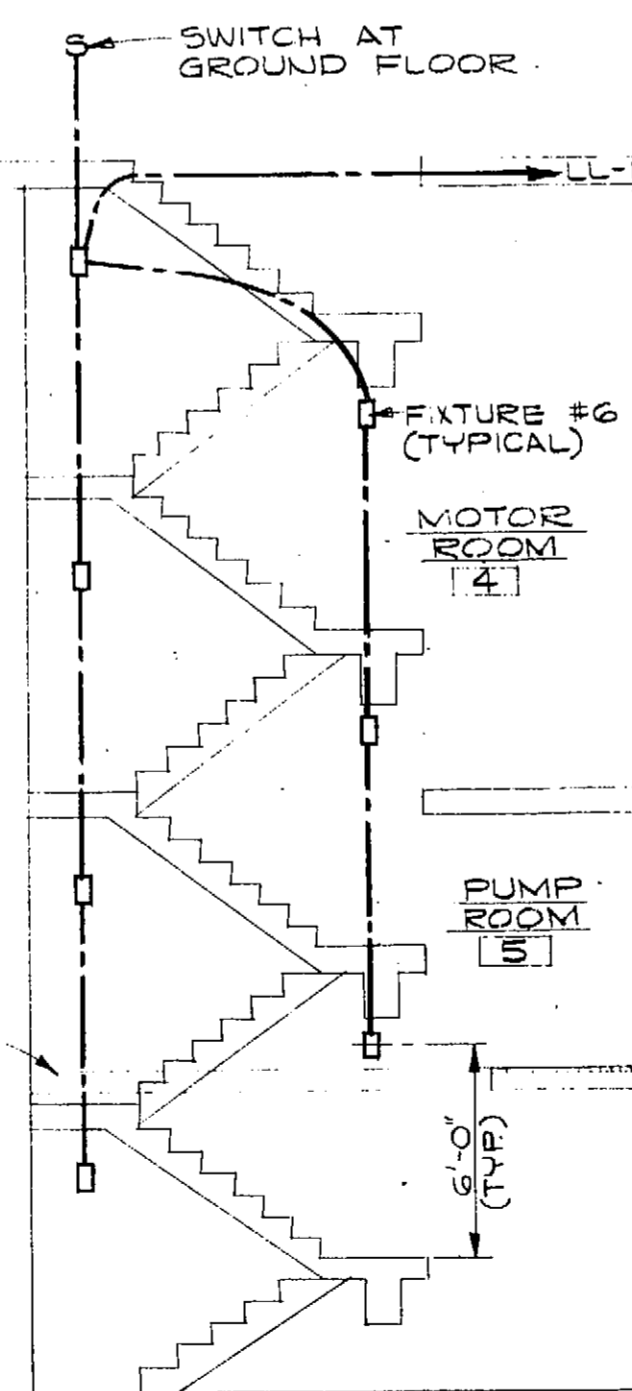
UP TO SWITCHES IN CONTROL ROOM
DOWN TO PUMP ROOM



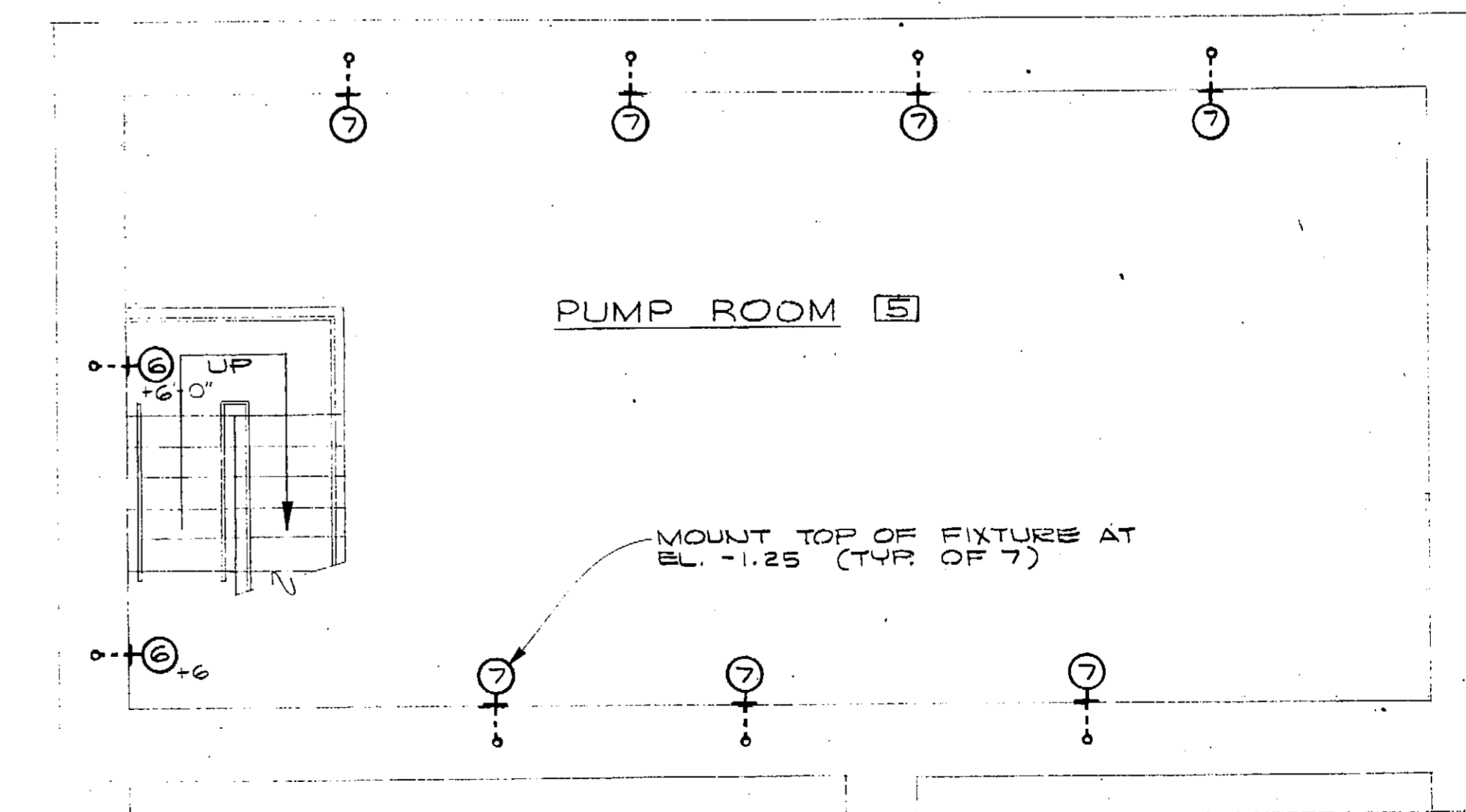
MOTOR ROOM - LIGHTING PLAN
SCALE: 1/4" = 1'-0"



PUMP ROOM PLATFORM - LIGHTING PLAN
SCALE: 1/4" = 1'-0"



STAIR LIGHTING ELEVATION
SCALE: 3/16" = 1'-0"



PUMP ROOM - LIGHTING PLAN
SCALE: 1/4" = 1'-0"

DESIGNED	LR1	APPROVED	<i>[Signature]</i>
DRAWN	W.H.R., D.R.S.	SCALE	AS SHOWN
CHECKED	ECK	DATE	APR, 1972
FILE	70-P630-10144		

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

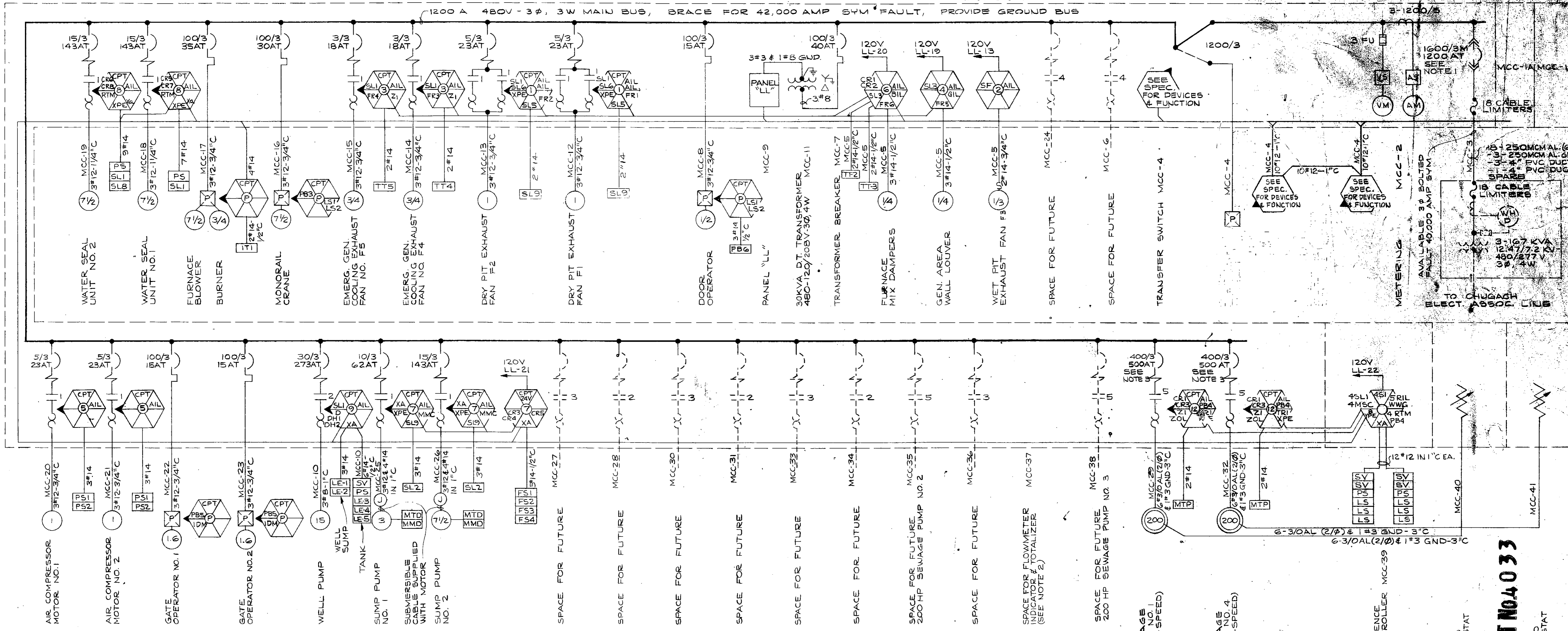


GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
LIGHTING PLANS



NOTE 1. PROVIDE 6E "POWER SENSOR TRIP" OR EQUAL WITH 1200 A TAP. CURRENT SENSOR LONG TIME SET AT 10X TAP ON MINIMUM TIME BAND. SET SHORT TIME AT 2.0X TAP ON MINIMUM TIME BAND. SET INSTANTANEOUS ON 12.0X TAP. SET GND SENSOR ON 300A AT 0.06 SEC.



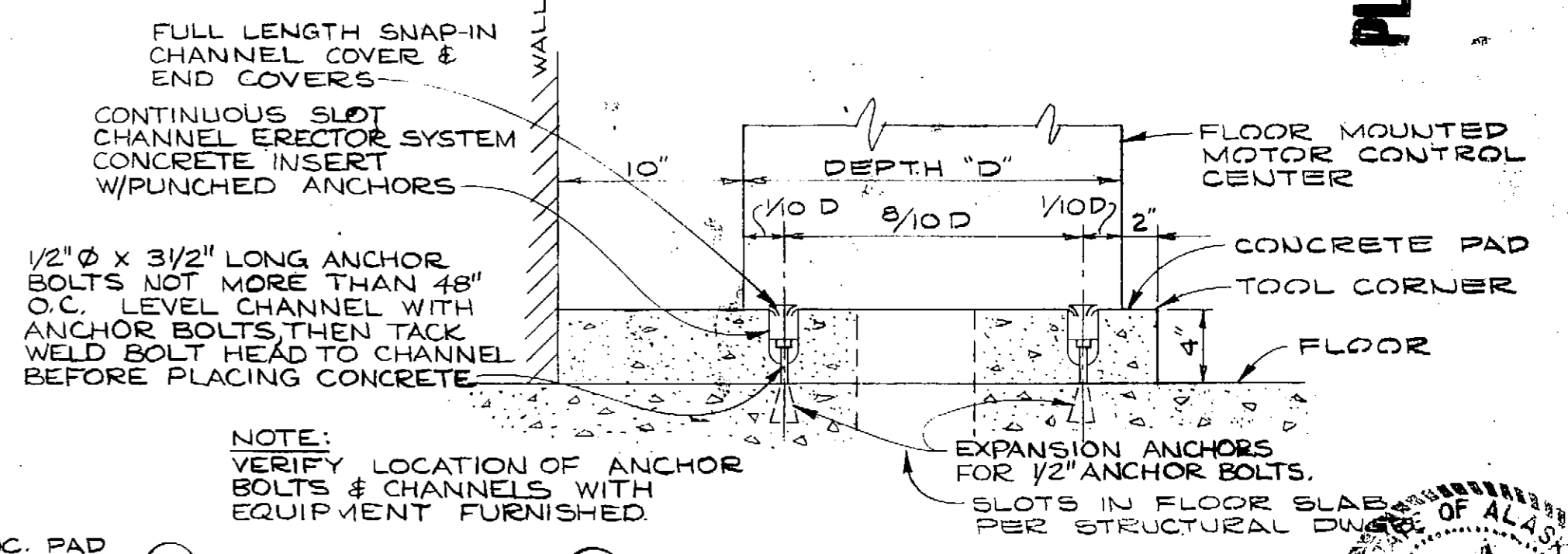
MOTOR CONTROL CENTER "MCC" ONE LINE DIAGRAM
N.T.S.

FUTURE LIQUID RHEOSTATS	MCC-41 LIQUID RHEOSTAT	MCC-40 LIQUID RHEOSTAT	MCC-39 SEQUENCE CONTROL PANEL	MCC-36 SPACE (REQ'D)	MCC-33 SPACE (REQ'D)	MCC-30 SPACE (REQ'D)	MCC-27 SPACE (REQ'D)	MCC-23	MCC-22	MCC-17	MCC-16	MCC-12	MCC-8	MCC-7	MCC-5	MCC-2
				MCC-37	MCC-34 SPACE (REQ'D)	MCC-31 SPACE (REQ'D)	MCC-28 SPACE (REQ'D)	MCC-24 SPACE (REQ'D)	MCC-18	MCC-9	MCC-4	MCC-1	MCC-1A ANNUN. & TELE. CABINET	MCC-1	MCC-1	MCC-1
				MCC-38 SPACE (REQ'D)	MCC-35 SPACE (REQ'D)	MCC-32	MCC-29	MCC-25	MCC-20	MCC-14	MCC-11	MCC-10				

NOTES: 2. PROVIDE 18" MINIMUM DEPTH SPACE FOR FLOWMETER INDICATOR & TOTALIZER. PROVIDE VERTICAL BUS CONTINUATION TO STARTER BELOW WITH CABLE.
3. PROVIDE A CURRENT LIMITER WITH 14,000 AMP AVERAGE CLEARING TIME AT 0.01 SECONDS.

MOTOR CONTROL CENTER "MCC" ELEVATION
SCALE: 1/2" = 1'-0"

WALL TELEPHONE BY TELEPHONE COMPANY, CONTRACTOR TO COORDINATE.



DETAIL 1
MOTOR CONTROL CENTER "MCC" PAD
SCALE: 1 1/2" = 1'-0"

PLAN SET NO. 4033

11867

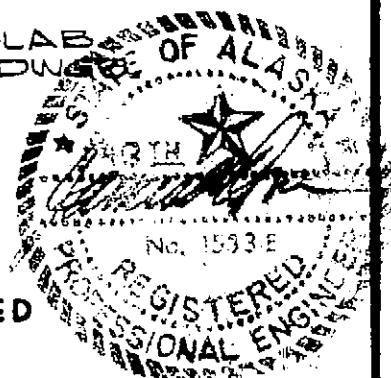
DESIGNED L.R.I.	APPROVED <i>[Signature]</i>
DRAWN DLF, DRB	SCALE AS SHOWN DATE APR, 1972
CHECKED ECK	FILE 70-P680-10145

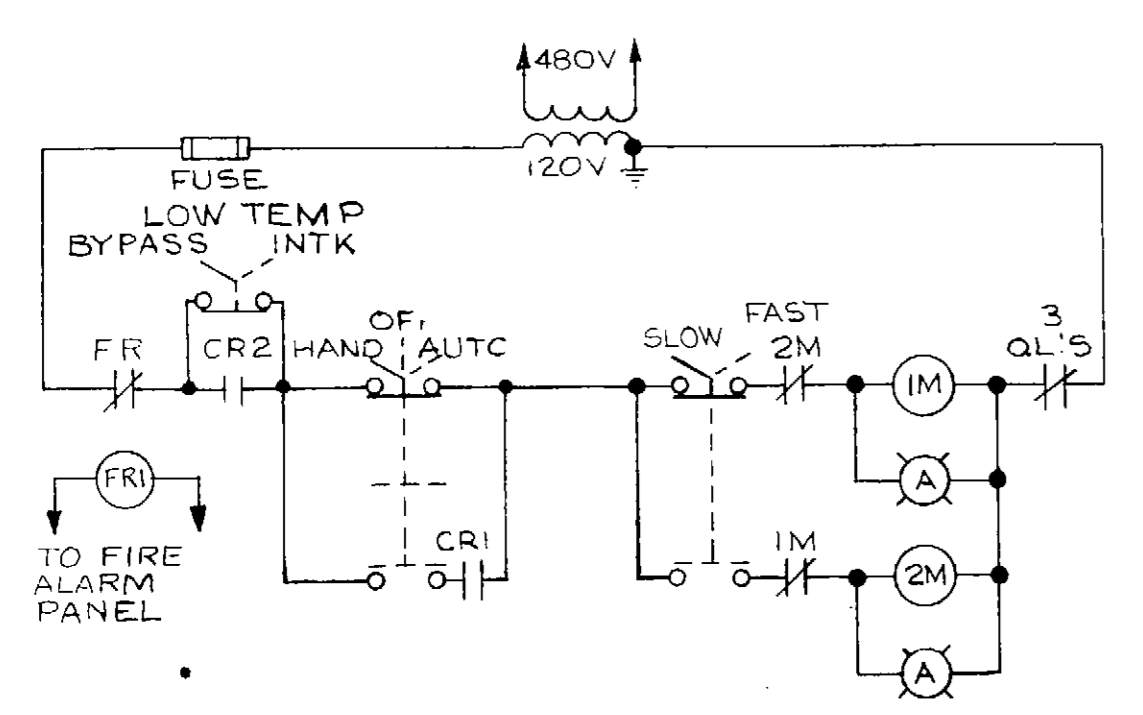
BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES



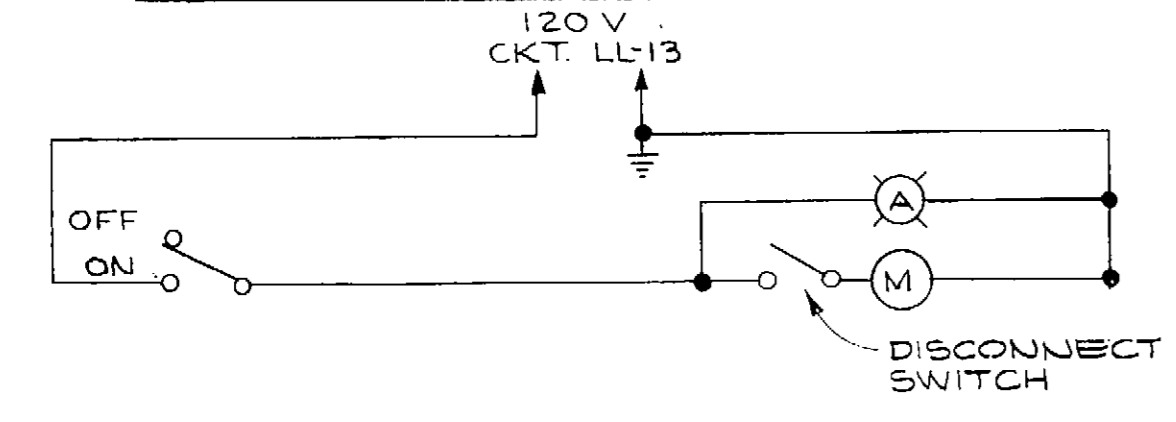
GREATER ANCHORAGE AREA BOROUGH
SEWERAGE PROJECT

CAMPBELL CREEK PUMP STATION
ONE LINE DIAGRAM & ELEVATION
E4/E6

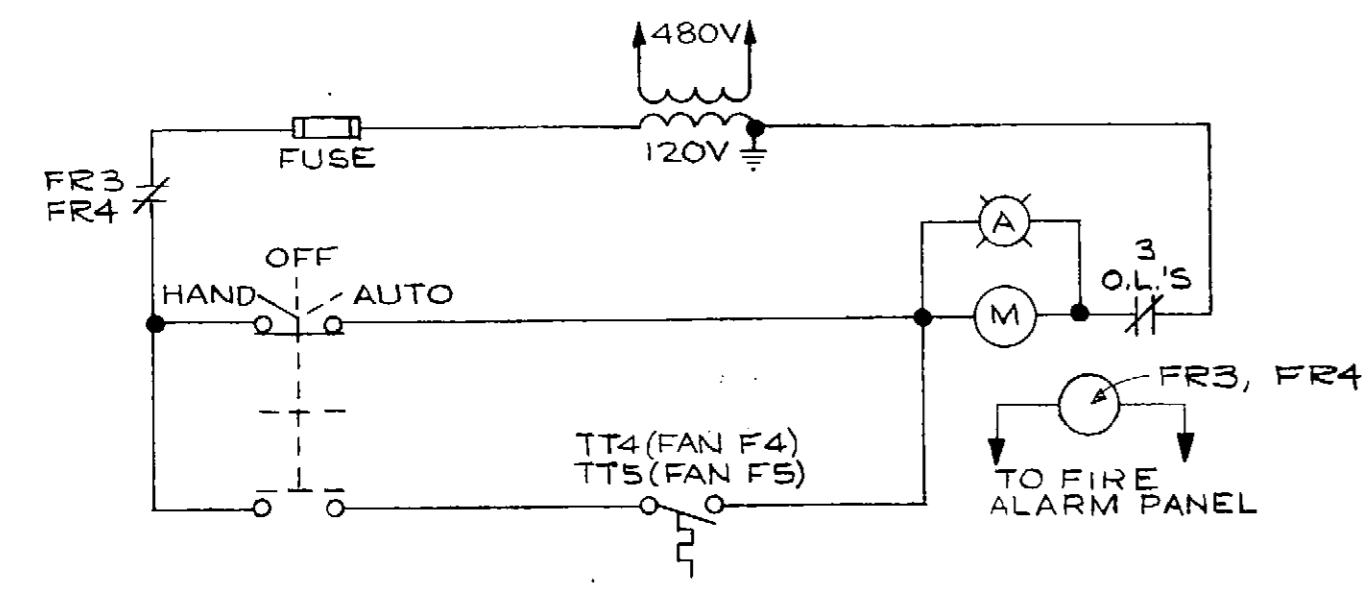




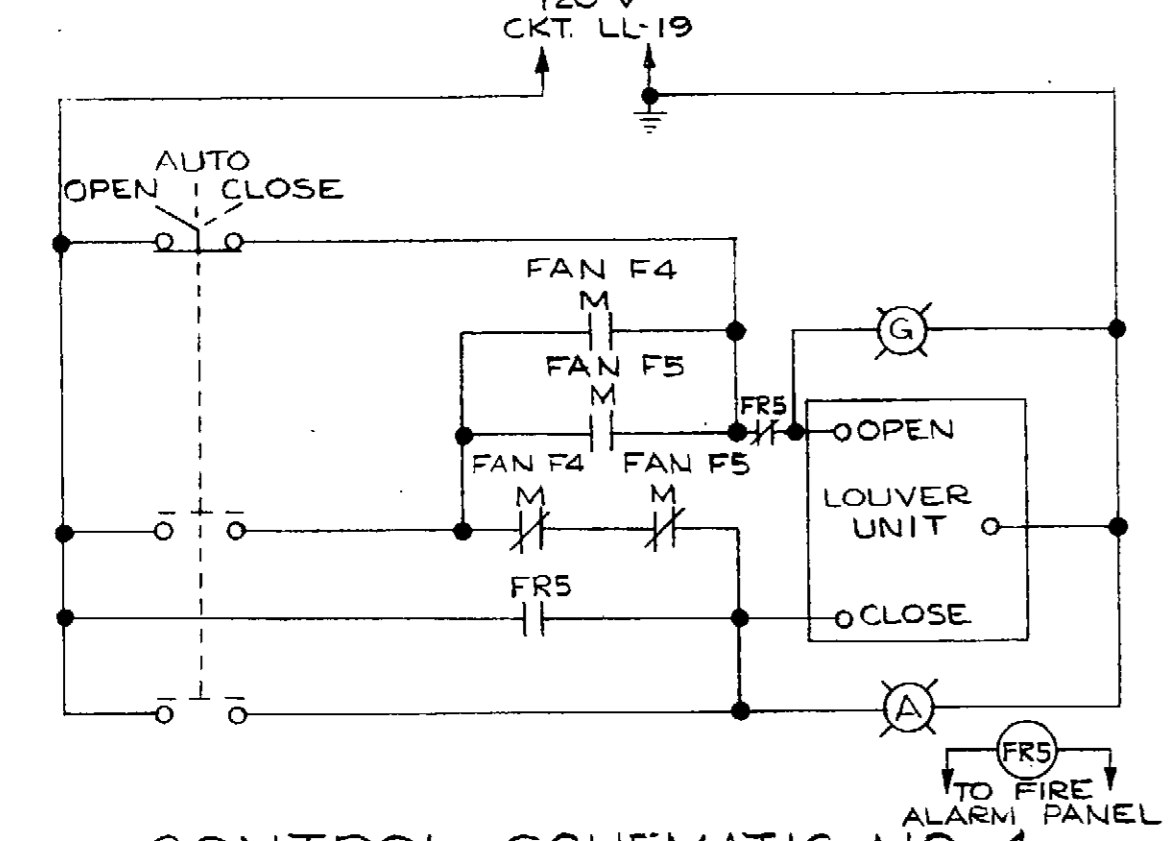
CONTROL SCHEMATIC NO. 1



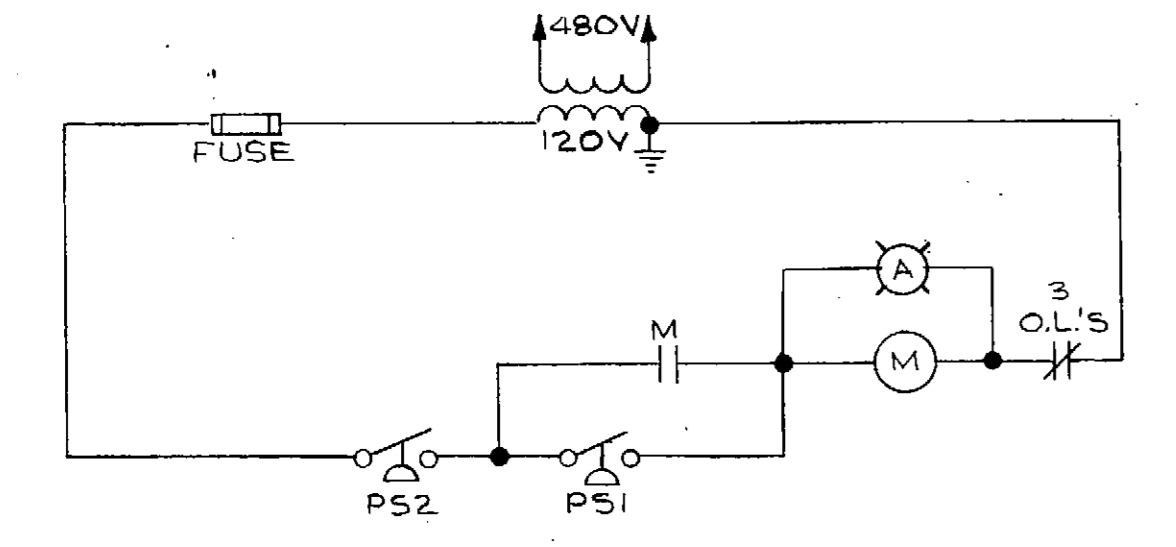
CONTROL SCHEMATIC NO. 2



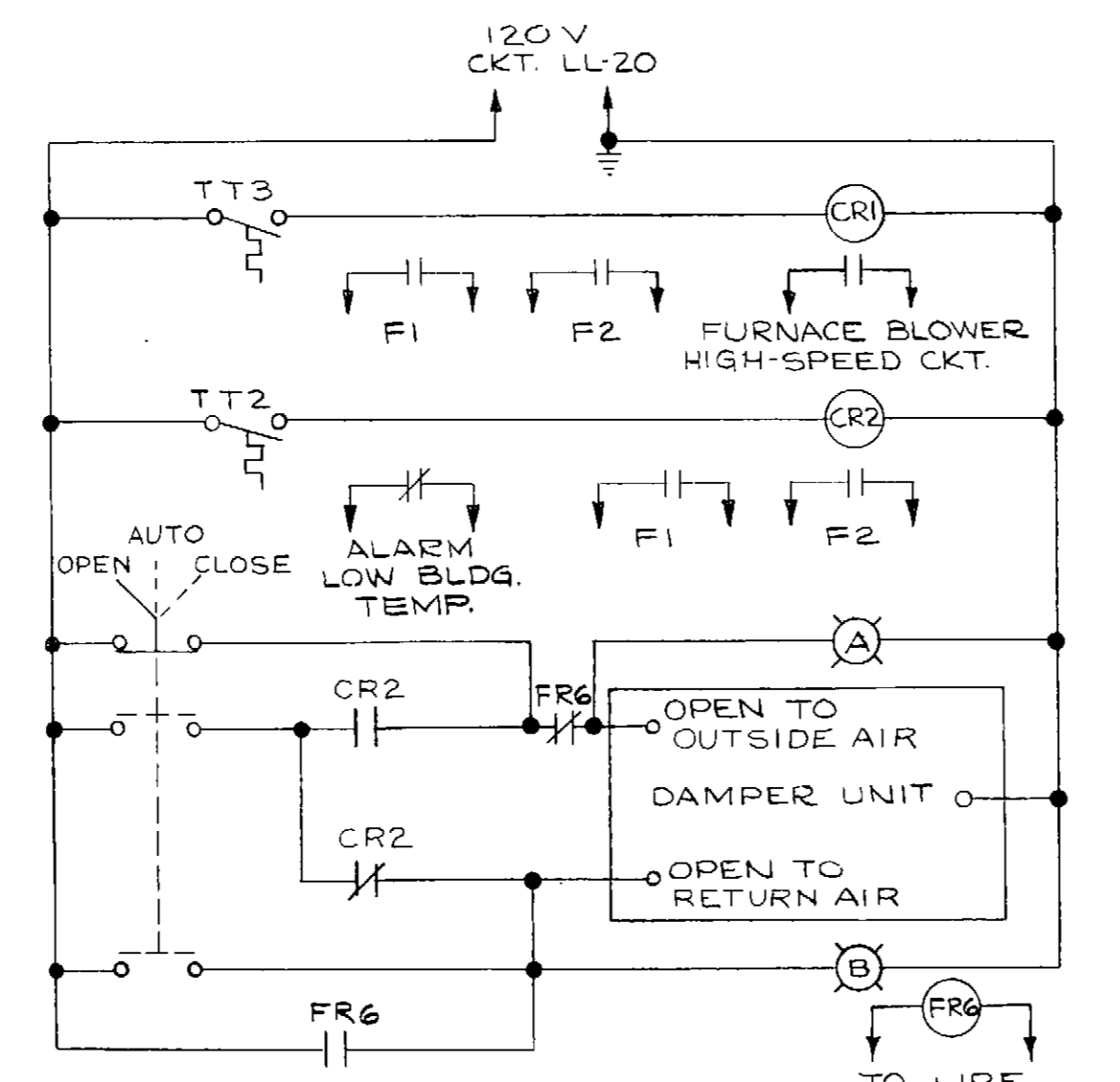
CONTROL SCHEMATIC NO. 3



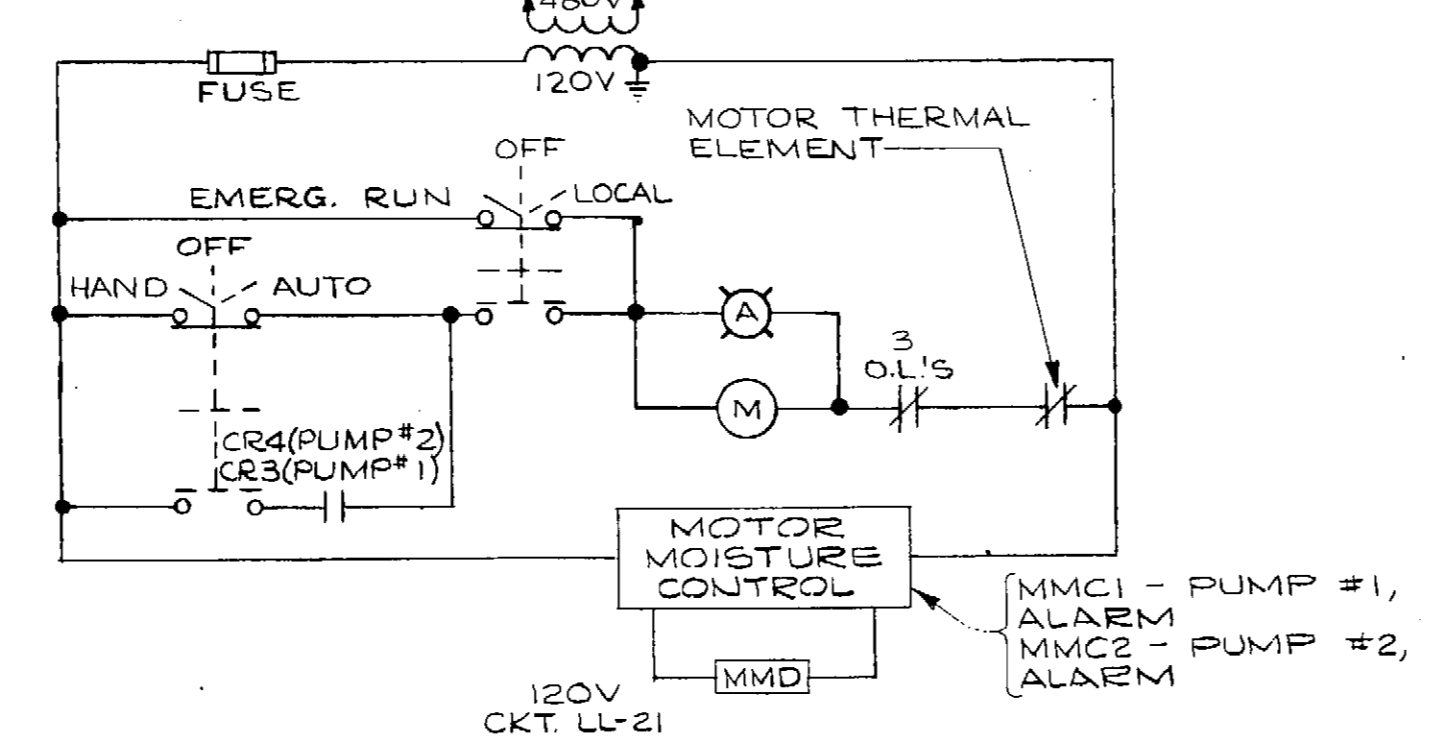
CONTROL SCHEMATIC NO. 4



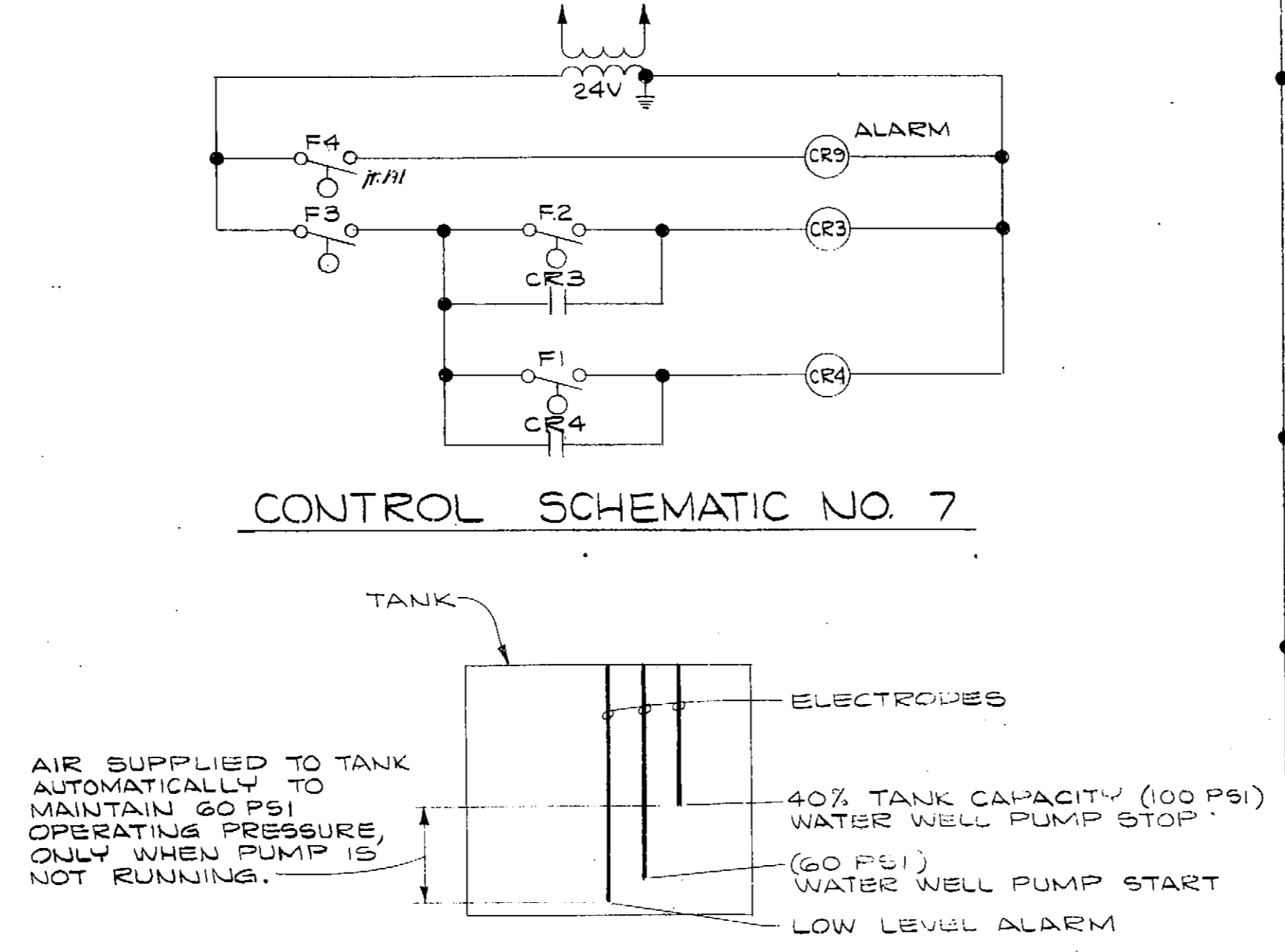
CONTROL SCHEMATIC NO. 5



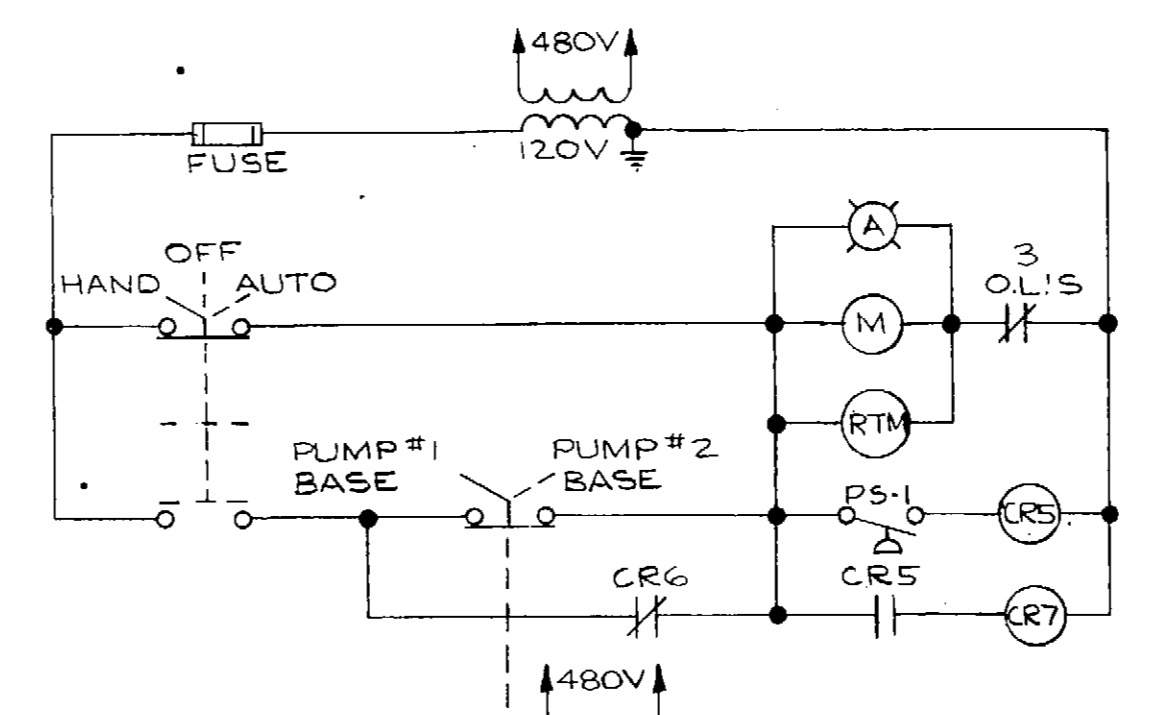
CONTROL SCHEMATIC NO. 6



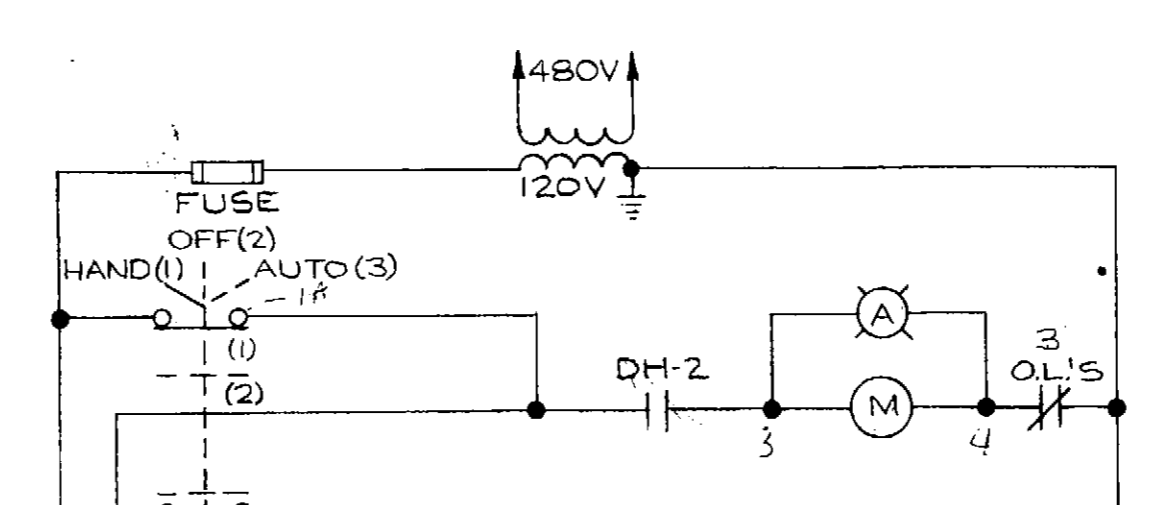
CONTROL SCHEMATIC NO. 7



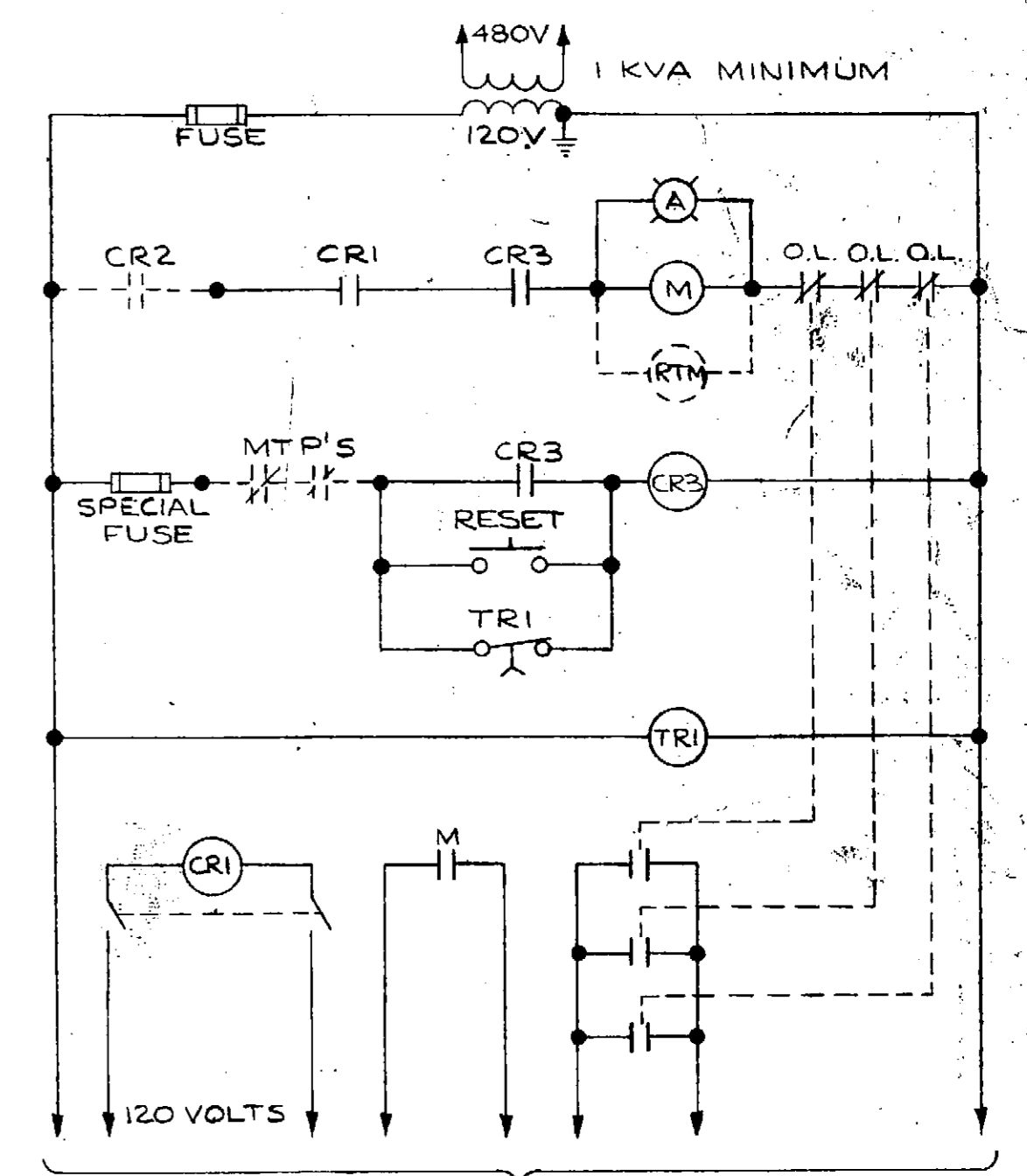
HYDROPNEUMATIC TANK LEVEL SCHEDULE



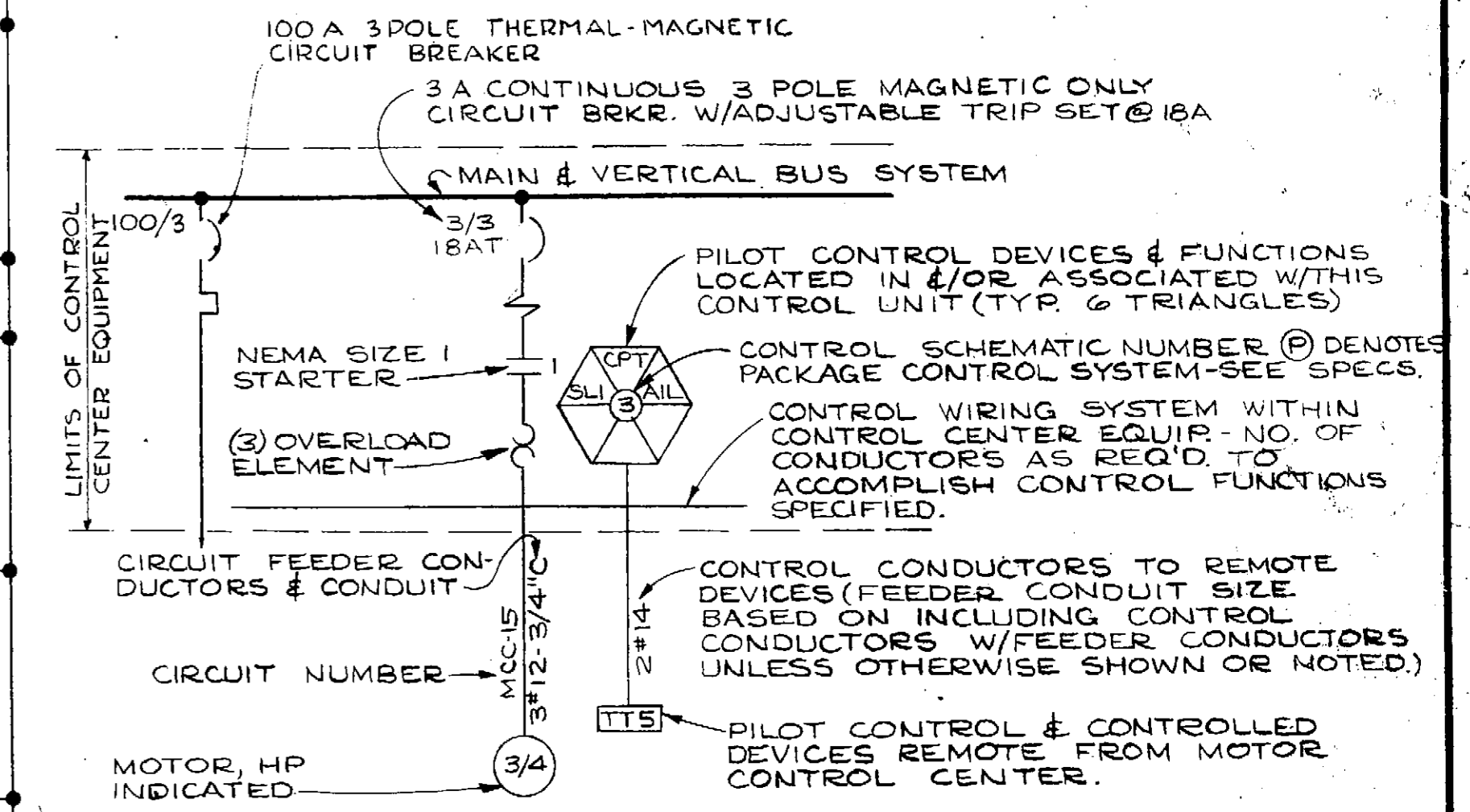
CONTROL SCHEMATIC NO. 8



CONTROL SCHEMATIC NO. 9



CONTROL SCHEMATIC NO. 12

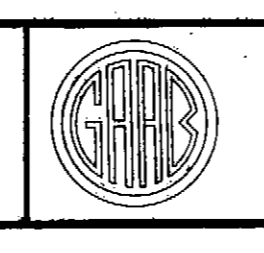


TYPICAL ONE LINE DIAGRAM SYMBOLS

NOTES:
1. PRESSURE SWITCH PS-3 SHALL HAVE AN ADJUSTABLE RESET SETTING RANGE (0-150 PSI) AND AN ADJUSTABLE DIFFERENTIAL RANGE (2-18 PSI). SET AT 60 PSI RESET AND 2 PSI DIFFERENTIAL.

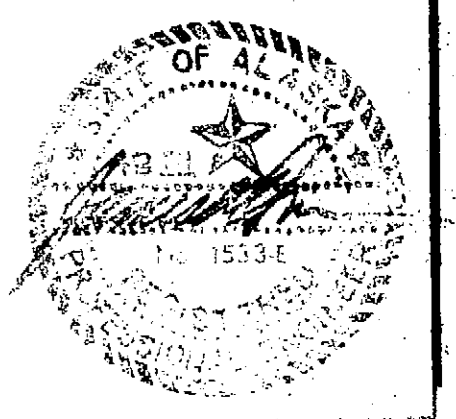
DESIGNED	LRI	APPROVED	[Signature]
DRAWN	DLF	SCALE	NONE
DATE	NO.	REVISION	BY
CHECKED	ECK	FILE NO.	P 680-10146

BOROUGH ENGINEERS
A JOINT VENTURE
TRYCK, NYMAN & HAYES AND STEVENS, THOMPSON, RUNYAN & ASSOCIATES

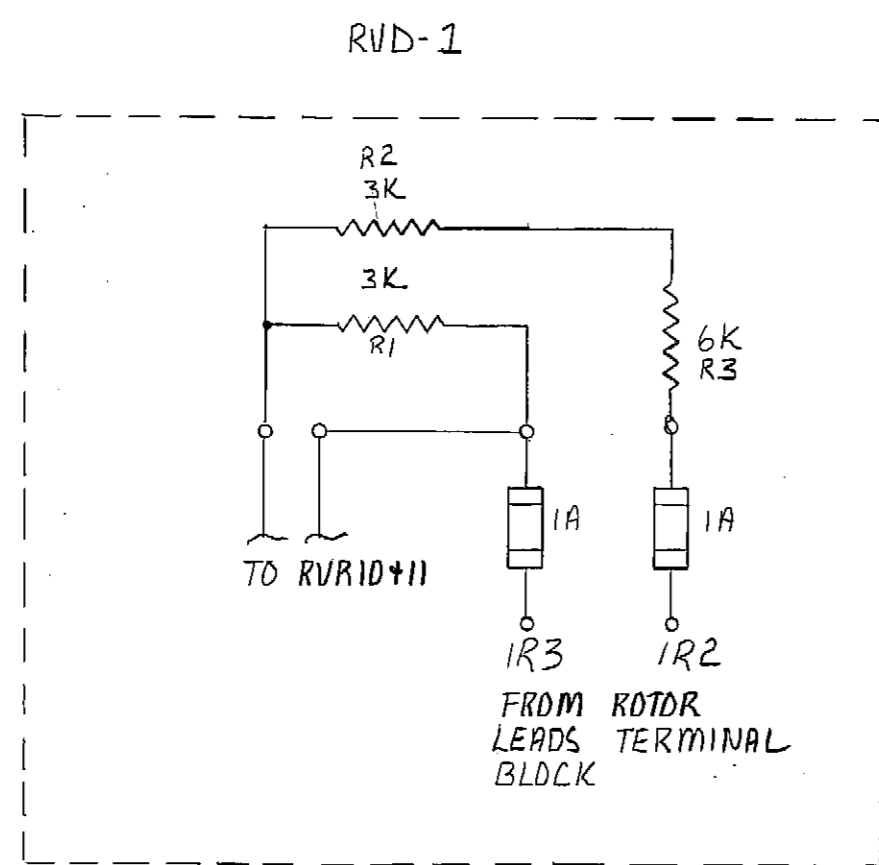


GREATER ANCHORAGE AREA BOROUGH SEWERAGE PROJECT

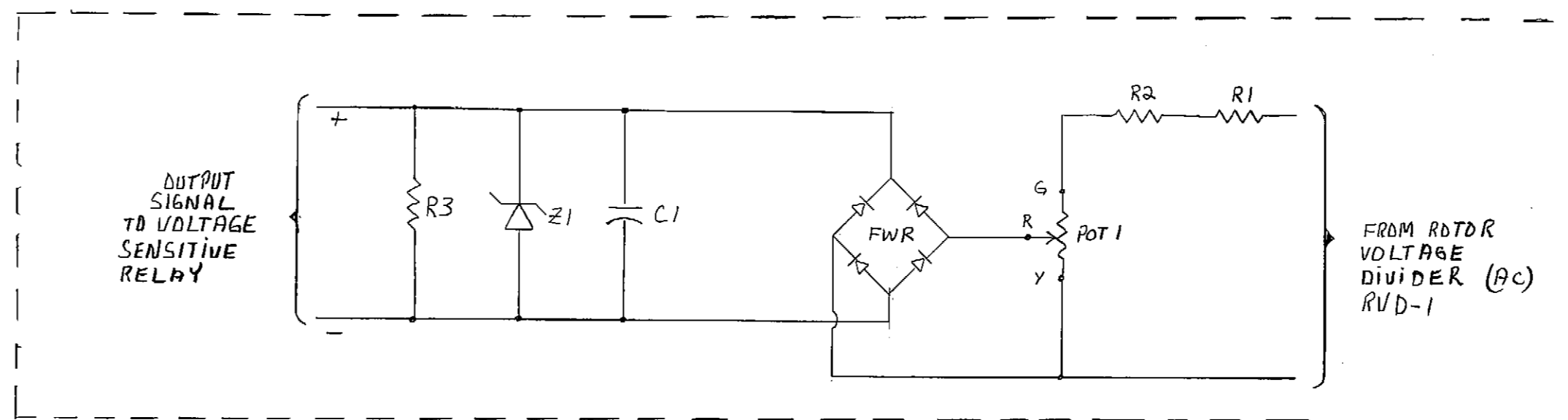
CAMPBELL CREEK PUMP STATION CONTROL SCHEMATICS
ES/EG



FLOWMATCHER CO. INC.
 DWG. NO. C-ASY 02B
 ROTOR VOLTAGE DIVIDER ASSEMBLY
 CONFIGURATION
 TYPICAL 1+9
 SHOWN PUMP 1



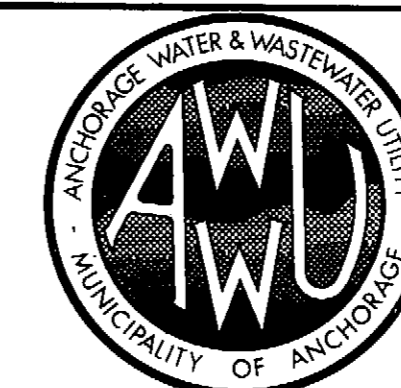
FLOWMATCHER CO. INC.
 DWG. NO. C-ASY-027
 ROTOR VOLTAGE RECTIFIER ASY.
 CONFIGURATION TYPICAL FOR RVR10
 & RVR11- AND PUMPS 1-4- SHOWN PUMP 1



FLOWMATCHER PART #	DESCRIPTION
OHM 001-00	RESISTOR 3KΩ, 5W, R1+R2
CAP 001-03	CAPACITOR (C1)
REC. 001-00	BRIDGE RECT. (FWR)
DIO. 001-03	ZENER DIODE (Z1)
POT. 003-10	POTENTIOMETER 10K (POT)
OHM 100-4B	RESISTOR 22KΩ, 1/4W, R3

GRAPHIC SCALE

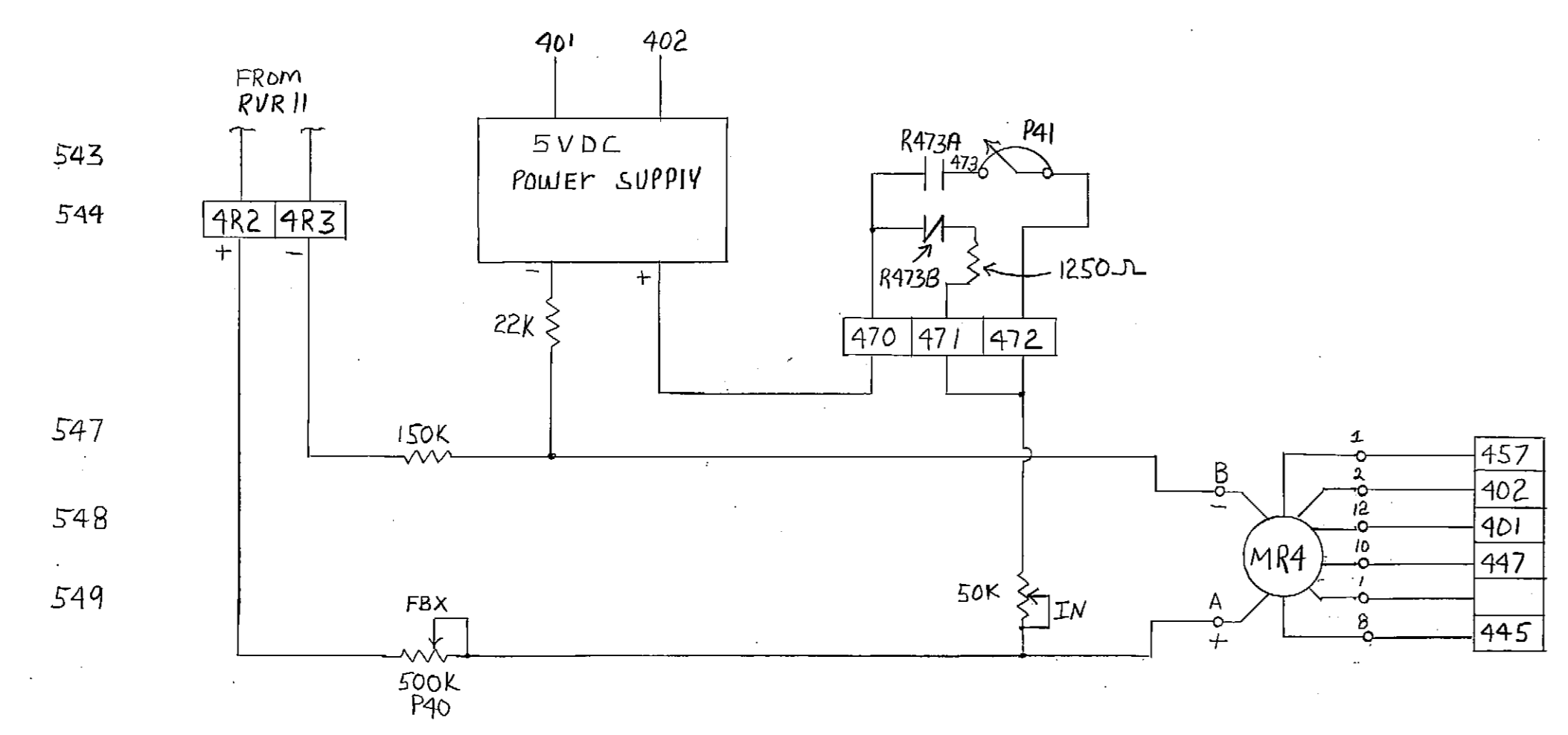
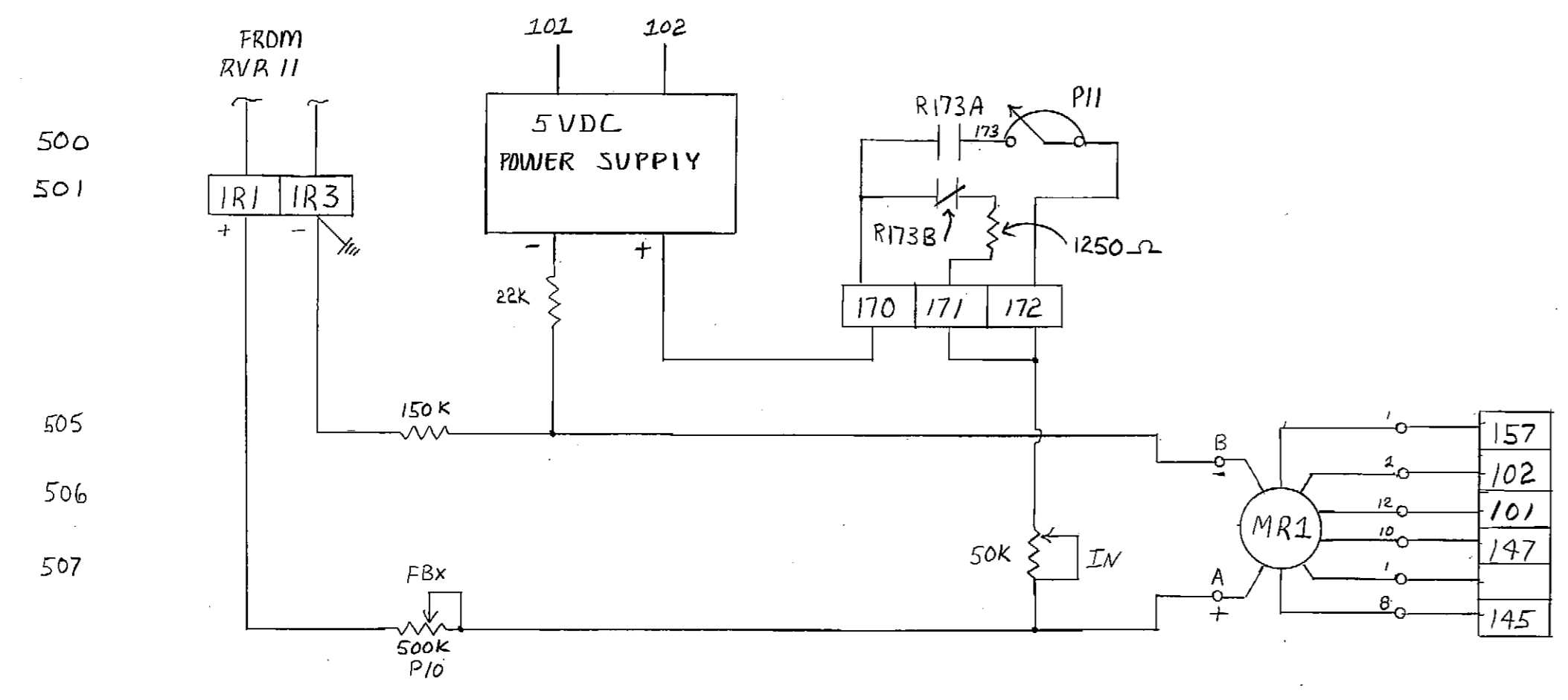
FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	OWN	CDP	BY	DATA	OWN	CDP	BY	
DESIGN											BASE				TELE				
STAKING											TOPO				ELEC				
ASBUILT											PROFILE				DESIGN				
CONTRACTOR											SAN SEWER				QUANTITIES				
INSPECTOR											STORM SEWER				PRELIMINARY				
CONSTRUCTION RECORD											WATER				FINAL				
											GAS				MUNICIPAL/STATE				



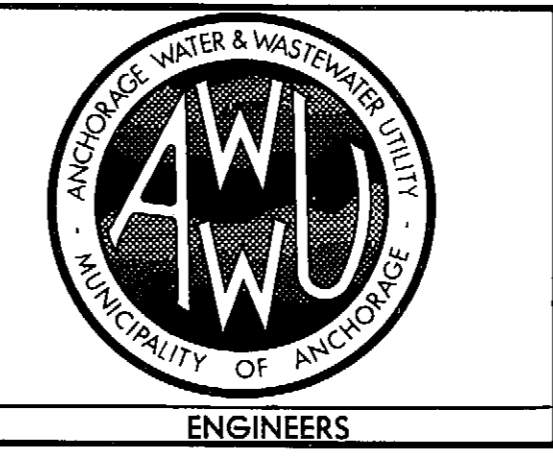
MUNICIPALITY OF ANCHORAGE
 ANCHORAGE WATER & WASTEWATER UTILITY

FLOWMATCHER CO. INC. COMBINED PRINTS
 DWG. NO. C-ASY 02B Rotor Voltage Divider Assy.
 DWG. NO. C-ASY 027 Rotor Voltage Rect. Assy.
 REDRAWN BY - JIM ROBB

SCALE: HOR. 1"=50' DATE: 1-25-85 SHEET 1 of 1
 VER. 1"=5' CITY GRID: SEWER GRID:



GRAPHIC SCALE											
FIELD BOOKS		REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.
DESIGN											
STAKING											
ASBUILT											
CONTRACTOR											
INSPECTOR											
CONSTRUCTION RECORD				REVISIONS			VERTICAL DATUM			VERTICAL DATUM	



MUNICIPALITY OF ANCHORAGE
ANCHORAGE WATER & WASTEWATER UTILITY

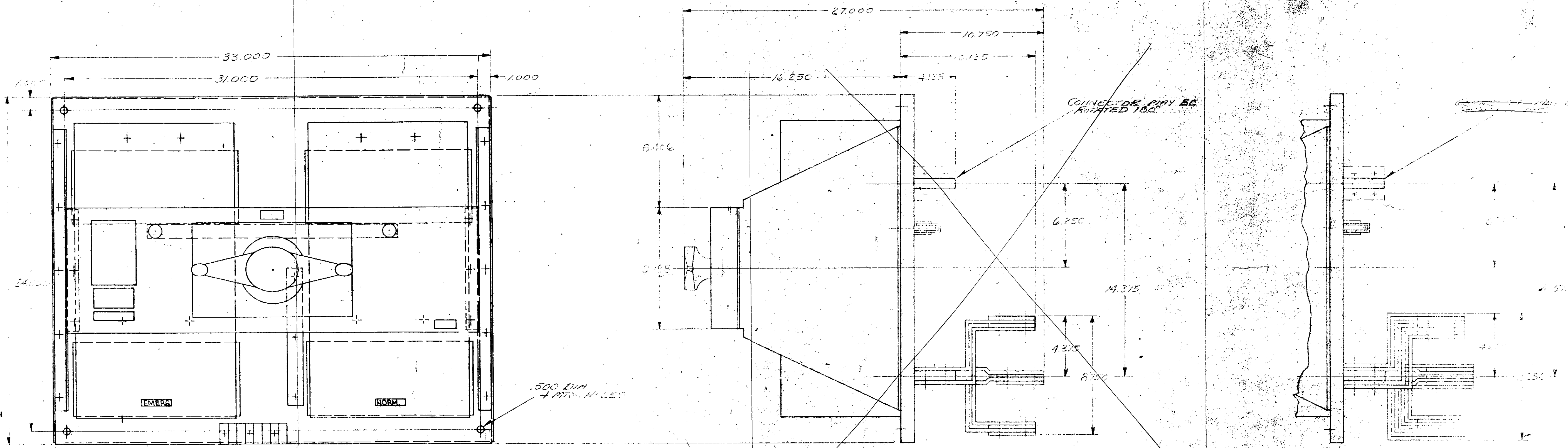
MANUAL - MINIMUM SPEED AND HIGH VOLTAGE CUT OUT - FLOWMATCHER CO. INC.
DWG. NO. C11938
REDRAWN - BY JIM ROBB
ASBUILT

DATE: 1-22-85

SCALE: HOR. 1"=50' CITY GRID. SEWER GRID. SHEET 1 of 1

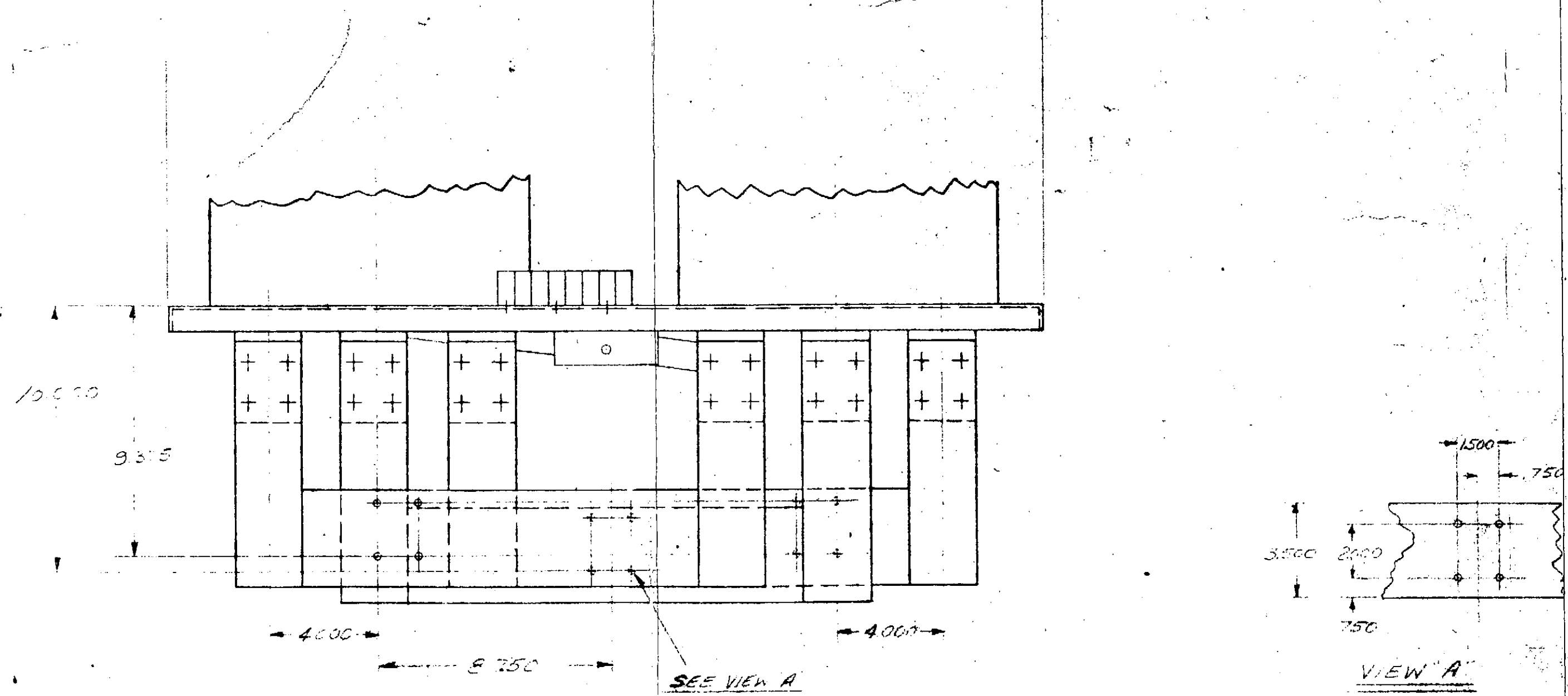
ENGINEERS SEAL

AWWU W.O.#

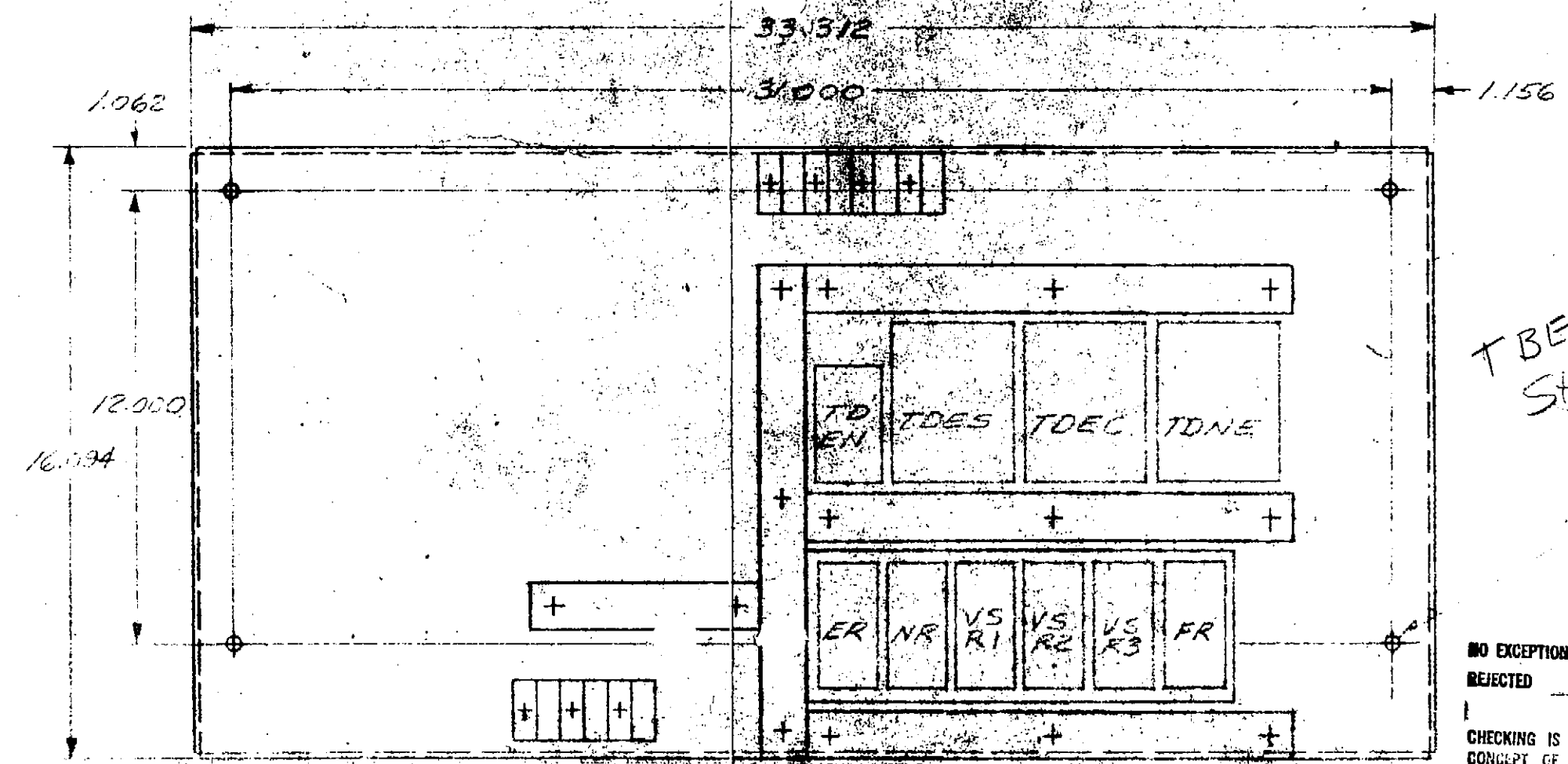


1200 AMP. LOAD BUS CONNECTION

2000 AMP. LOAD BUS CONNECTION



VIEW A
TYPICAL BUS HOLE PATTERN



TBEN NOT SHOWN

NO EXCEPTION TAKEN
REJECTED
CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL CONFORMANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE DESIGNER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND SPECIFICATIONS SHOWN ON THIS DRAWING AND FOR THE SATISFACTORY PERFORMANCE AND RELIABILITY OF THE CONSTRUCTION. THE DESIGNER'S WORK IS NOT TO BE INTERFERED WITH AND THE SATISFACTORY PERFORMANCE OF THE WORK.

DATE: July 1973
DESIGNER: J. P. HALL

1
CHANGE

NO.	DATE	BY	DESCRIPTION

FOR DESIGN USE ONLY
EXCEPT

Westinghouse Electric Corporation

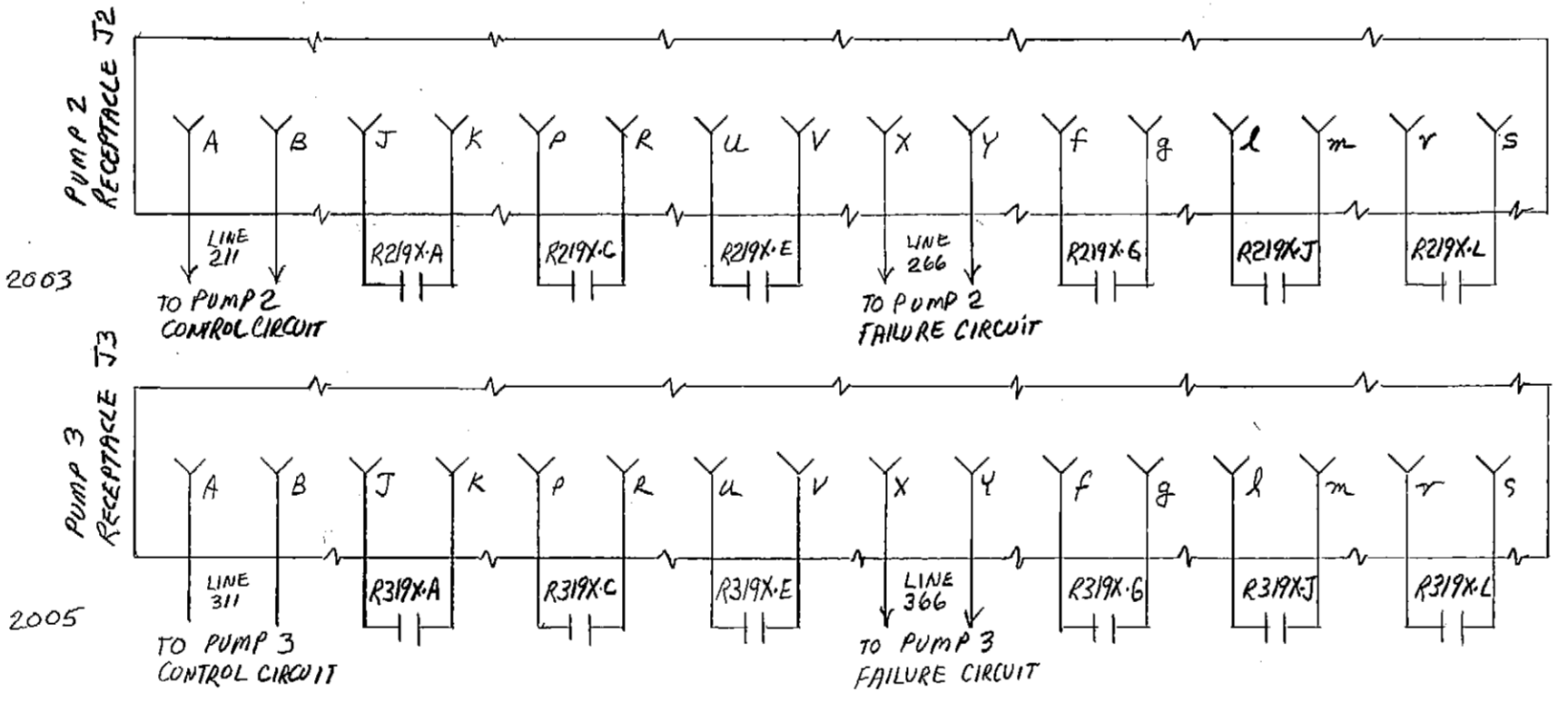
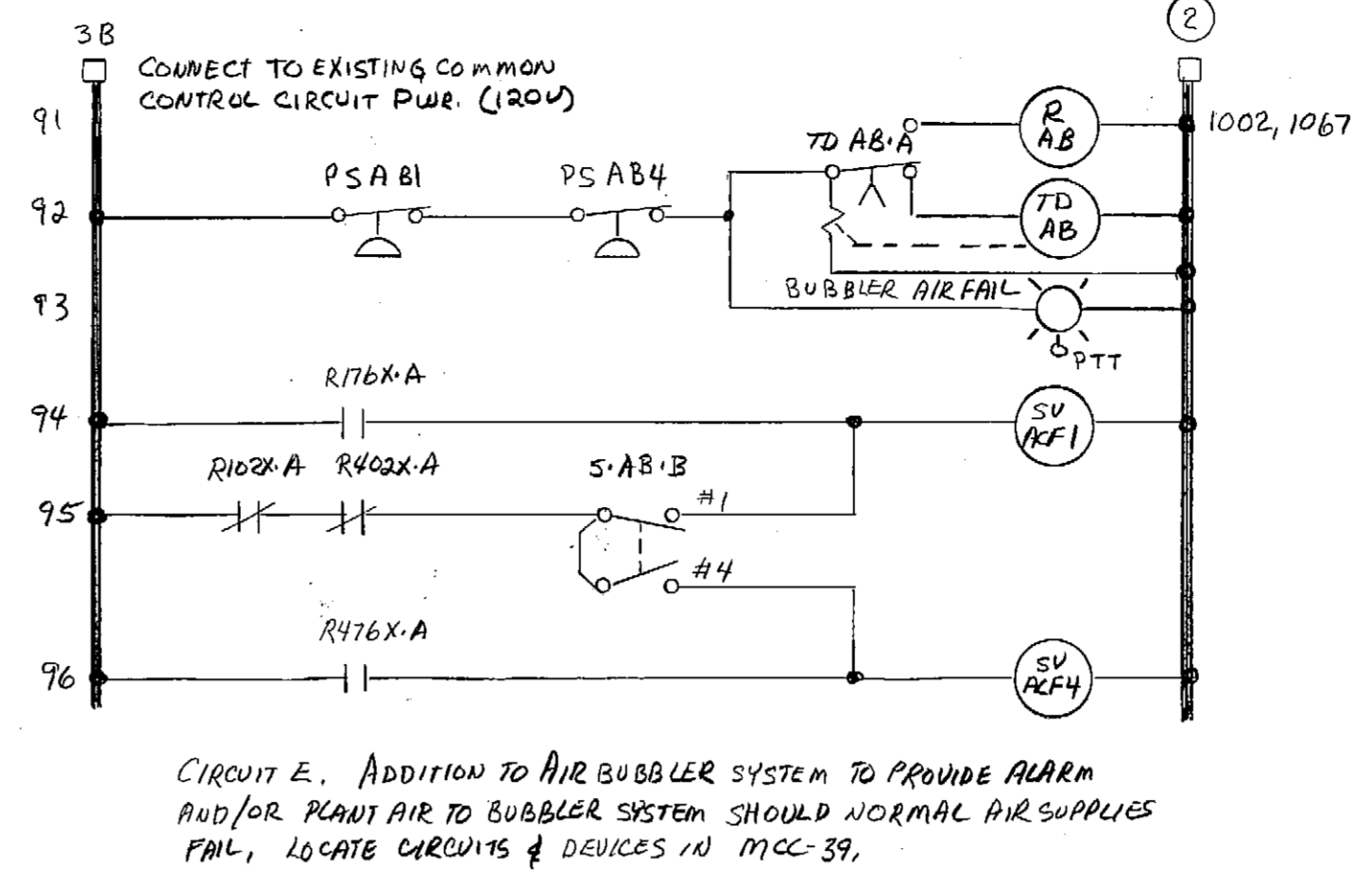
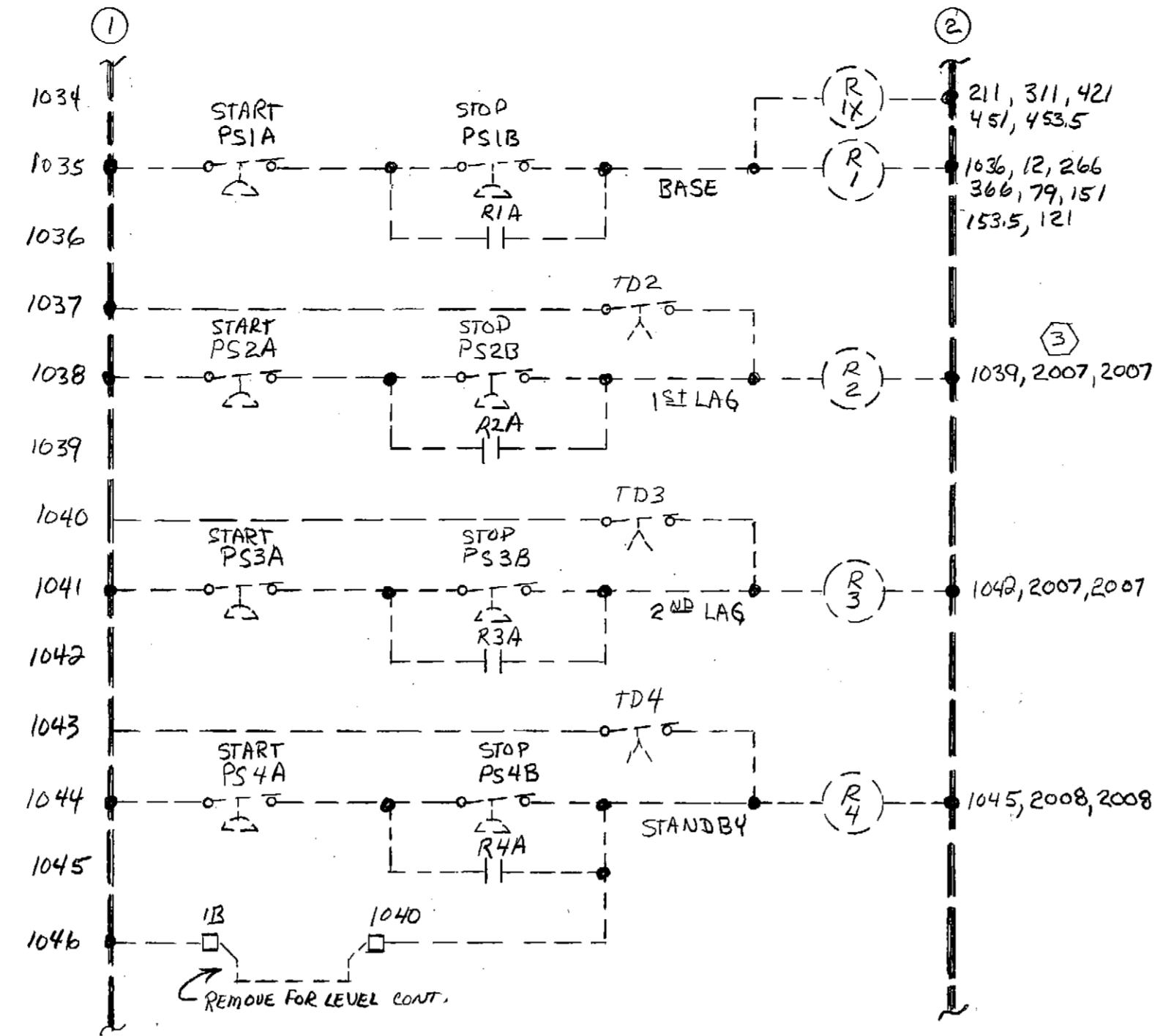
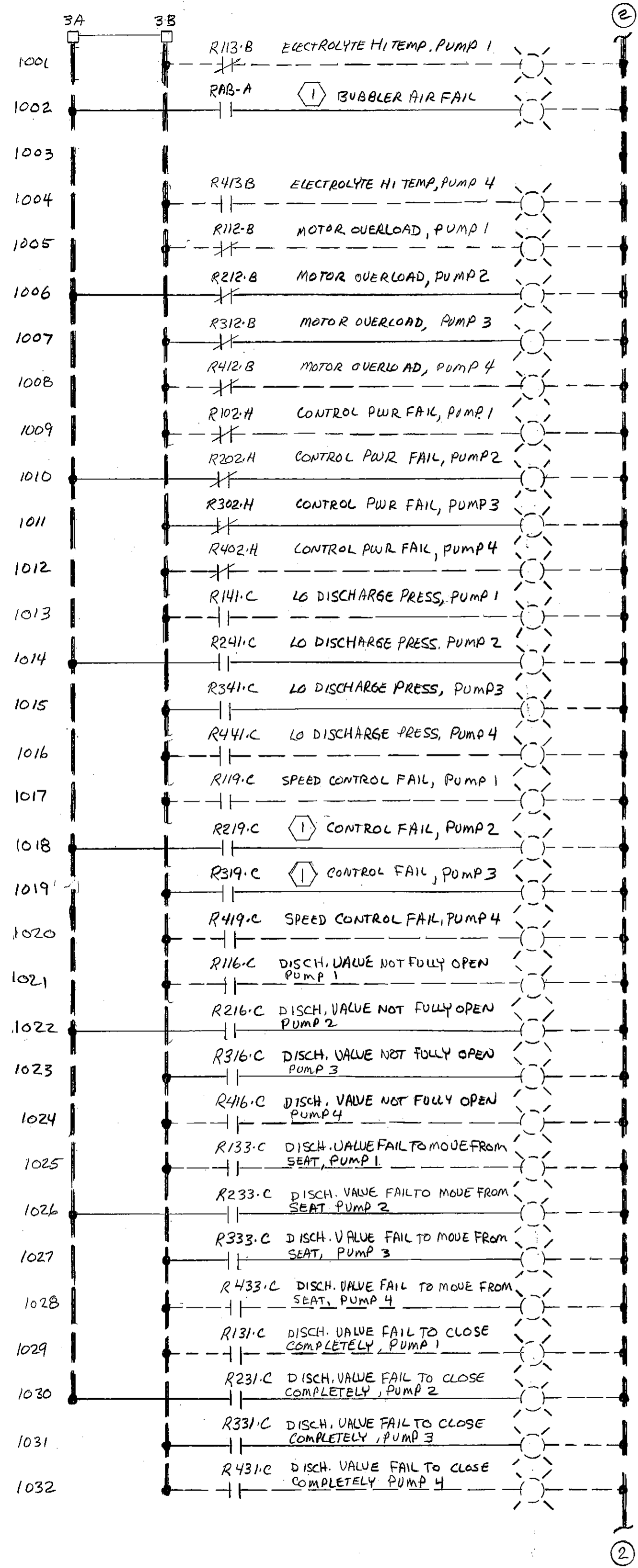
TITLE: AUTOMATIC TRANSFER SWITCH
PB-1200 & 2000 AMP. PER. CONTROL ONLY

DWG. NO. 766377-C1
SCALE: 1/4" = 1'-0"

APPD. [Signature]
DATE: [Blank]

2602D50

DISTRIBUTION & CONTROL EQUIPMENT DIVISIONS BEAVER, PA. USA



- NOTES:
- ① PROVIDE NEW LENS COVER MARKED AS SHOWN.
 - * ② LOCATE SW2 & SW3 ON MCC-42 & MCC-43, RESPECTIVELY.
 - ③ CIRCUIT REFERENCE NUMBERS OF THE "2000" SERIES REFER TO FLOMATCHER DWG: C-1209
 - ④ PROVIDE TERMINAL BLOCKS IN MCC-39, MCC-42, MCC-43, & MCC-1A. EXTEND ALARM CONTACTS FROM RESPECTIVE MCC TO MCC-1A VIA COMMUNICATIONS CABLE. TERMINATE FOR FUTURE.

GRAPHIC SCALE				0 50 100 150				SCALE							
DESIGN	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	OWN	CD	BY	DATE
											BASE				
											TOPO				
											PROFILE				
											SAN SEWER				
											STORM SEWER				
											WATER				
											GAS				
											PLAN CHECK				
											ENGINEERS				
											SEAL				

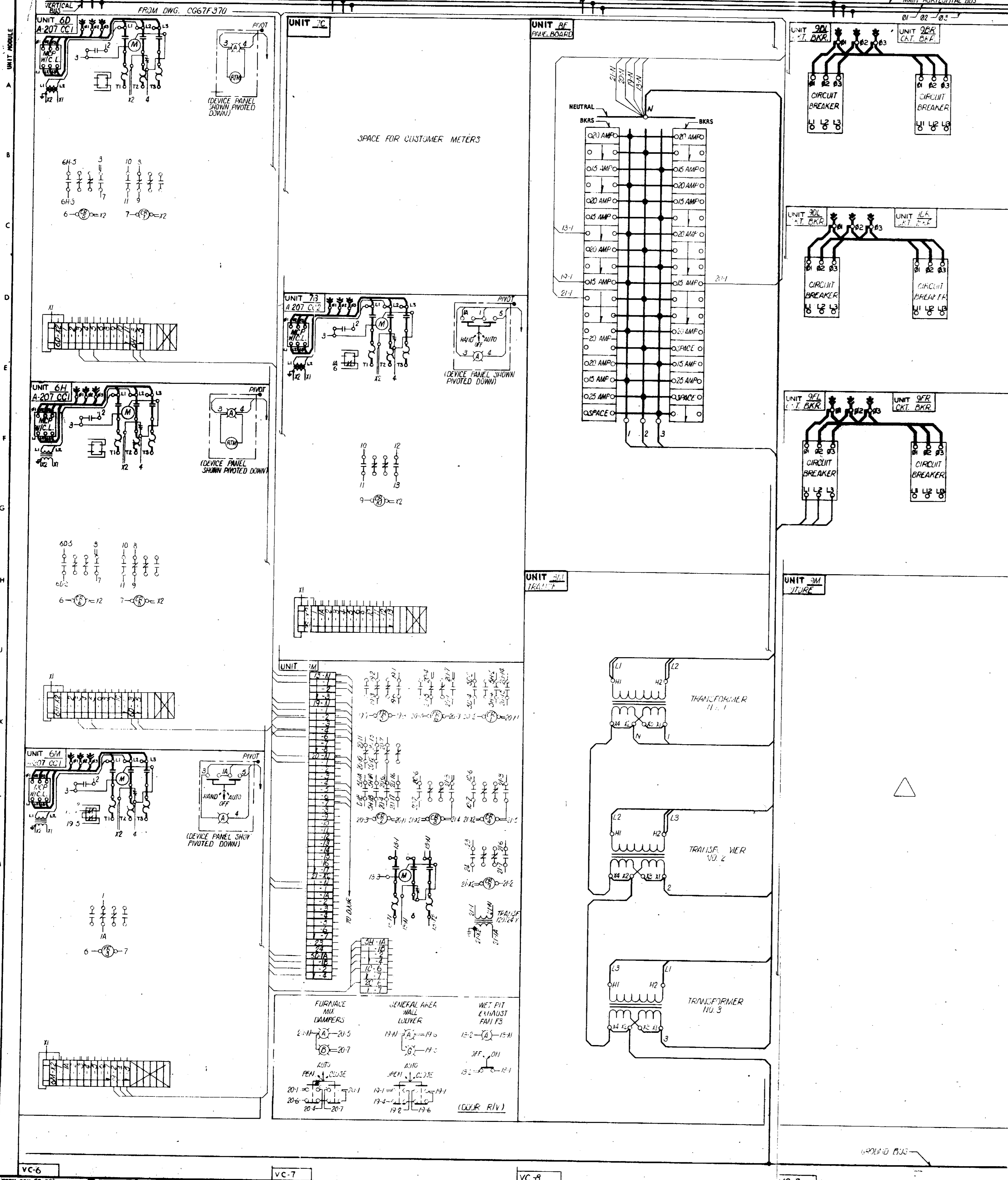
MUNICIPALITY OF ANCHORAGE
ANCHORAGE WATER & WASTEWATER UTILITY

CAMPBELL CREEK PUMP STATION
ADD CONSTANT SPEED PUMPS
REDRAWN 2-6-85 J. ROBB

SCALE: HOR. 1"=50'
VER. 1"=5'
DATE: Aug 7, 1978
CITY: ANCHORAGE
SEWER GRID:

SHEET 3 of 3

AW.W.U. WO. #



- SYMBOLS:**
- △ FUTURE SPACE
 - ⊖ UNUSABLE SPACE
 - ⊕ SPARE UNIT
 - 3rd DL IF SPECIFIED
 - MASTER TERMINAL BLOCK COMPARTMENT
 - VC VERTICAL COMPARTMENT

- NOTES:**
1. ALL INTERNAL CONNECTIONS ARE INSTALLED FROM TOP OF MASTER TERMINAL BLOCKS TO THEIR RESPECTIVE UNIT TERMINAL BLOCKS.
 2. ALL INTER-CONNECTIONS ARE INSTALLED BY MASTER TERMINAL BLOCKS.
 3. CUSTOMER'S CONNECTIONS TO BE INSTALLED AT BOTTOM OF MASTER TERMINAL BLOCKS.
 4. MOTOR CONNECTIONS TO BE MADE BY CUSTOMER. MOTOR STARTERS ONLY ARE WIRED TO MASTER TERMINAL BLOCKS.
 5. SHIPPING BREAKS ARE PROVIDED WITH NECESSARY CONNECTIONS TO BE MADE BY CUSTOMER.

AUTO-TRANSFER SWITCH
(LATER)

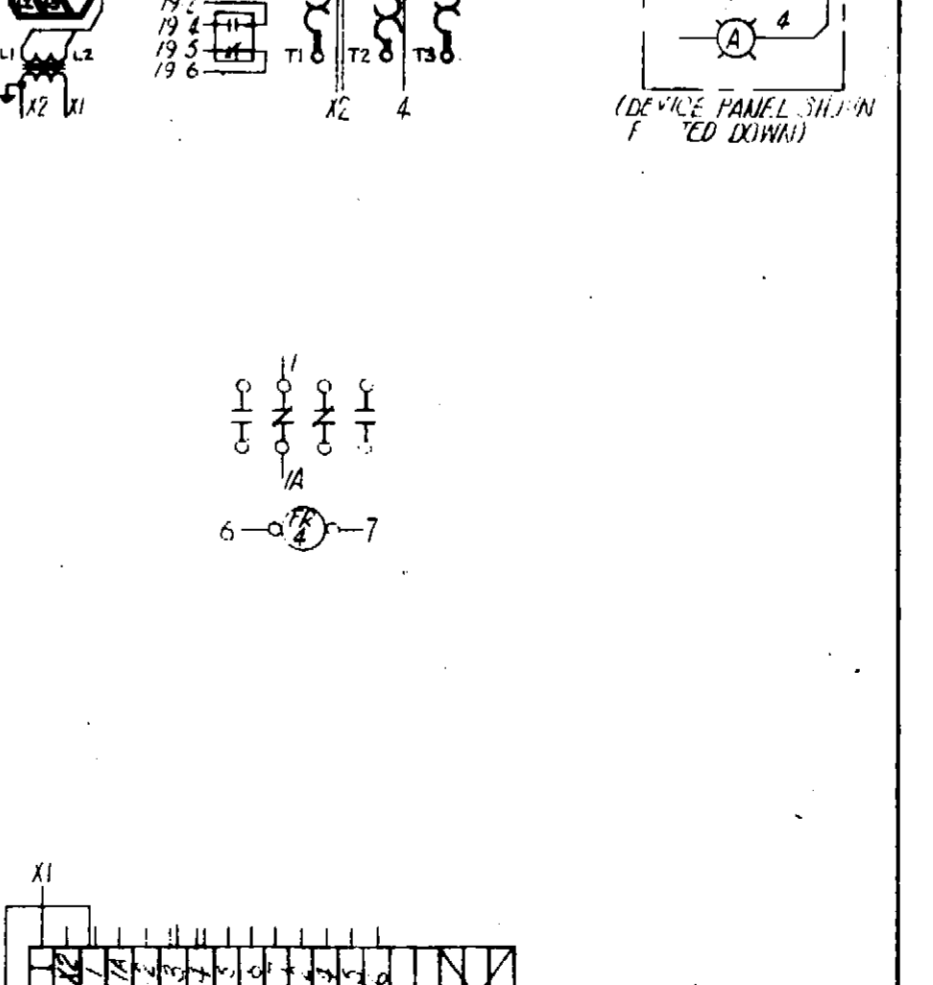
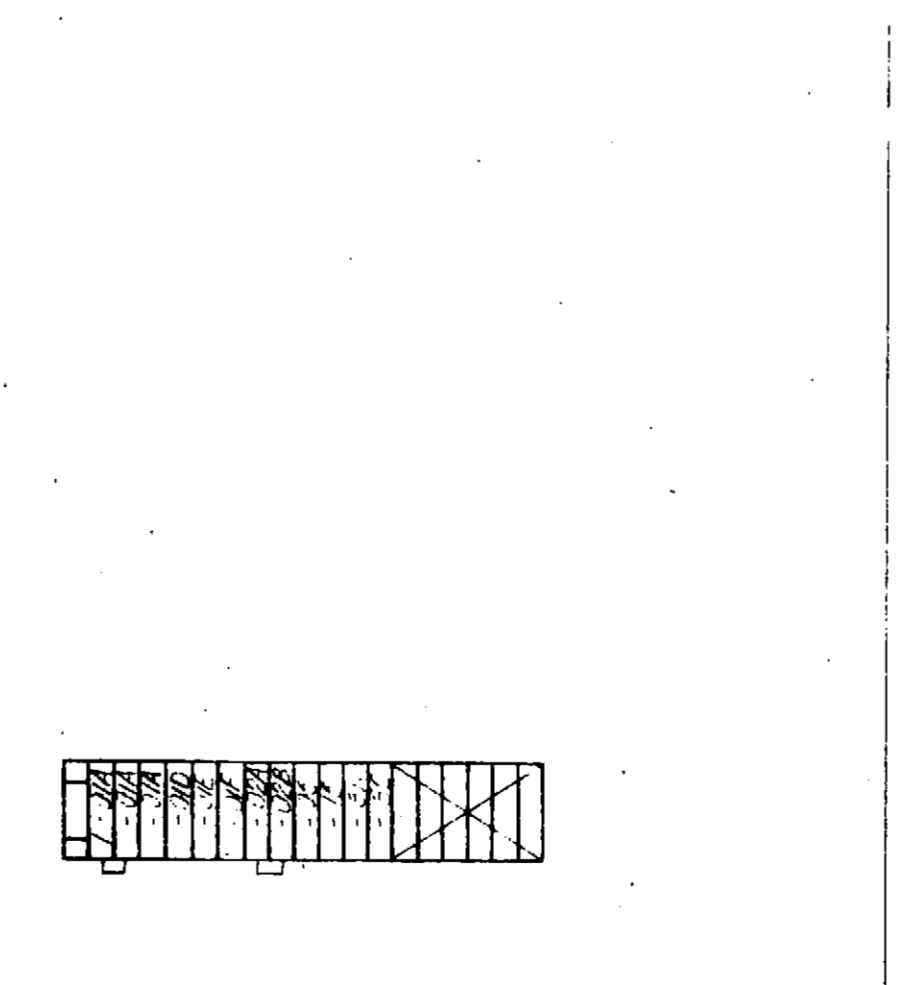
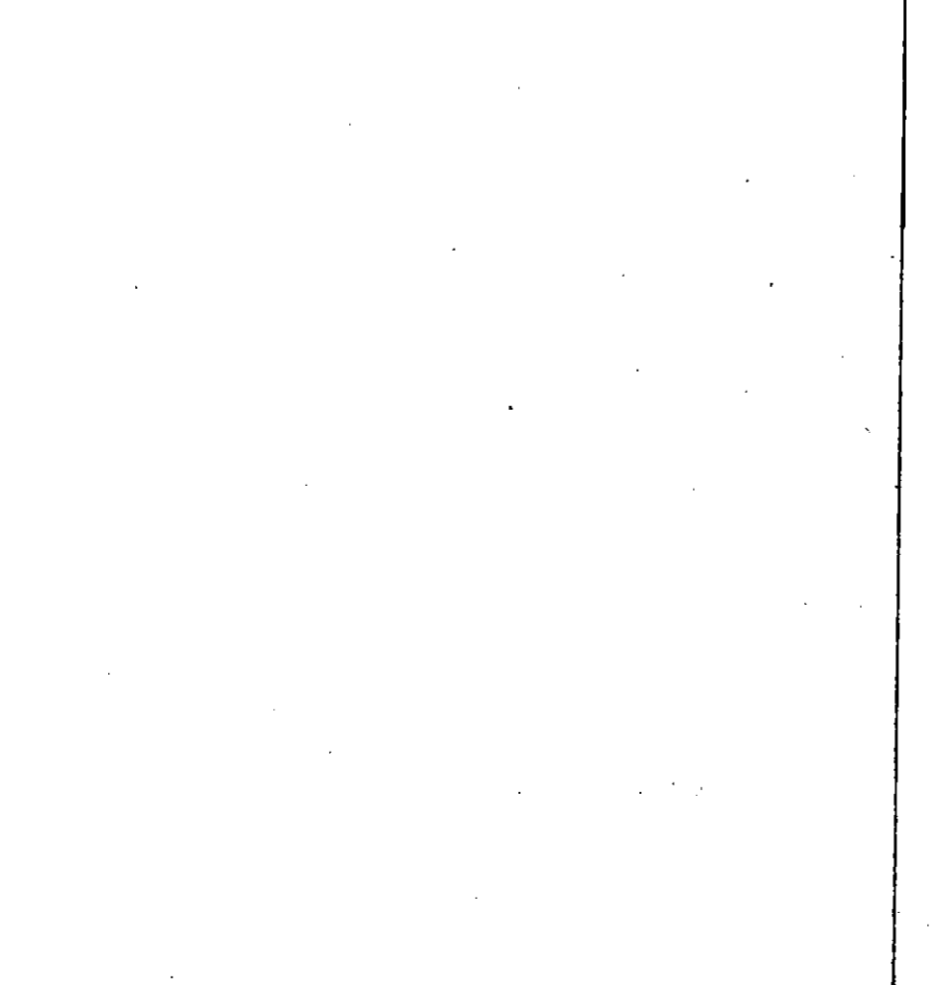
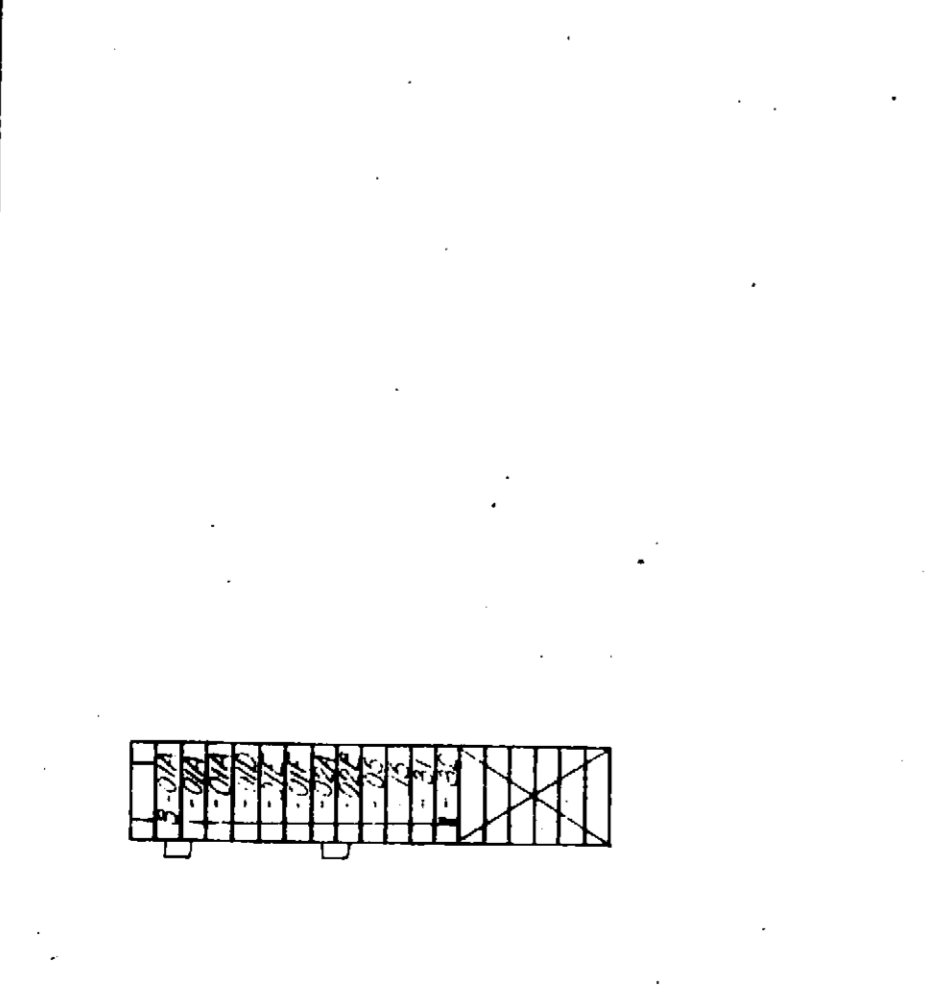
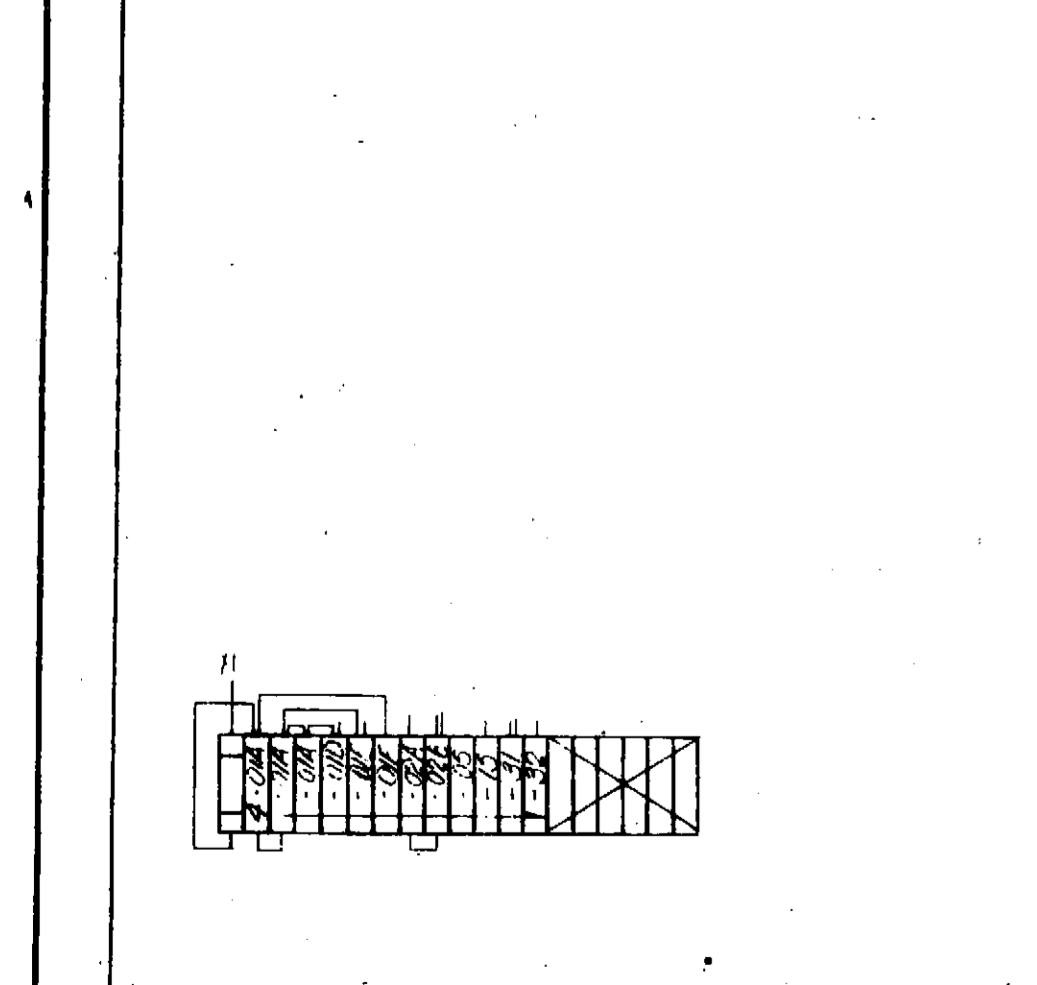
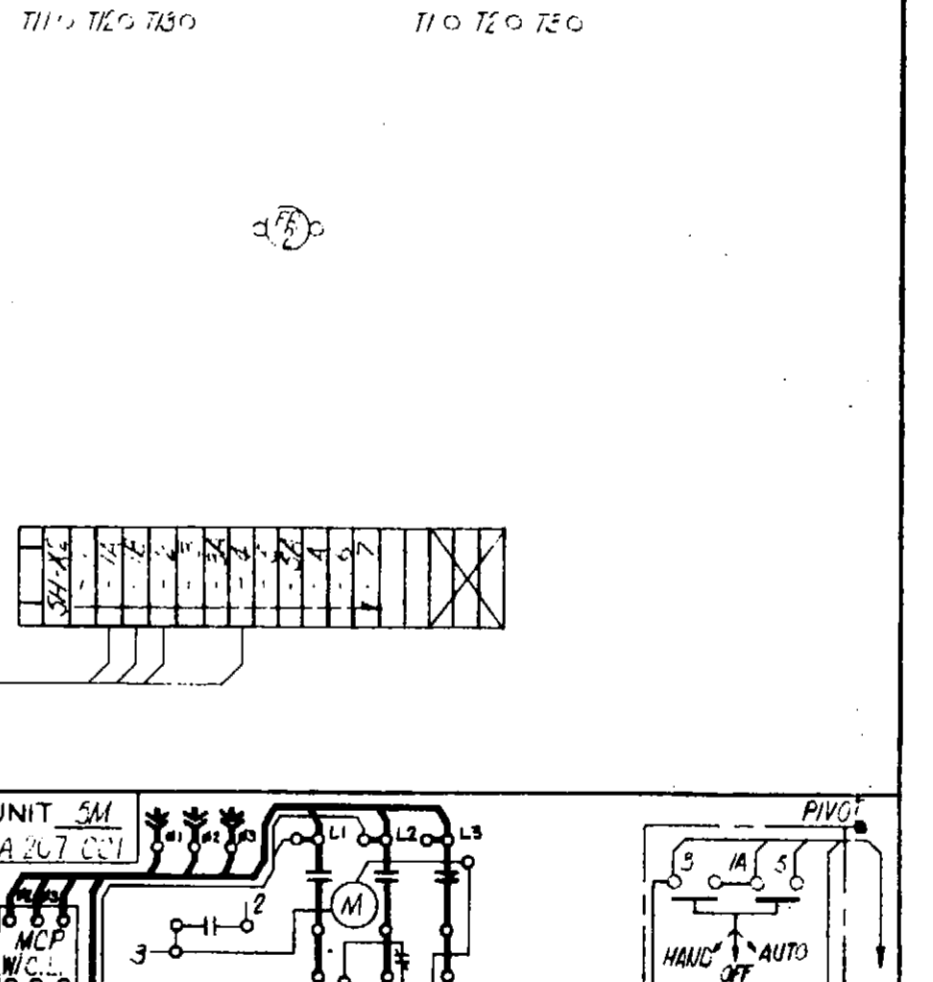
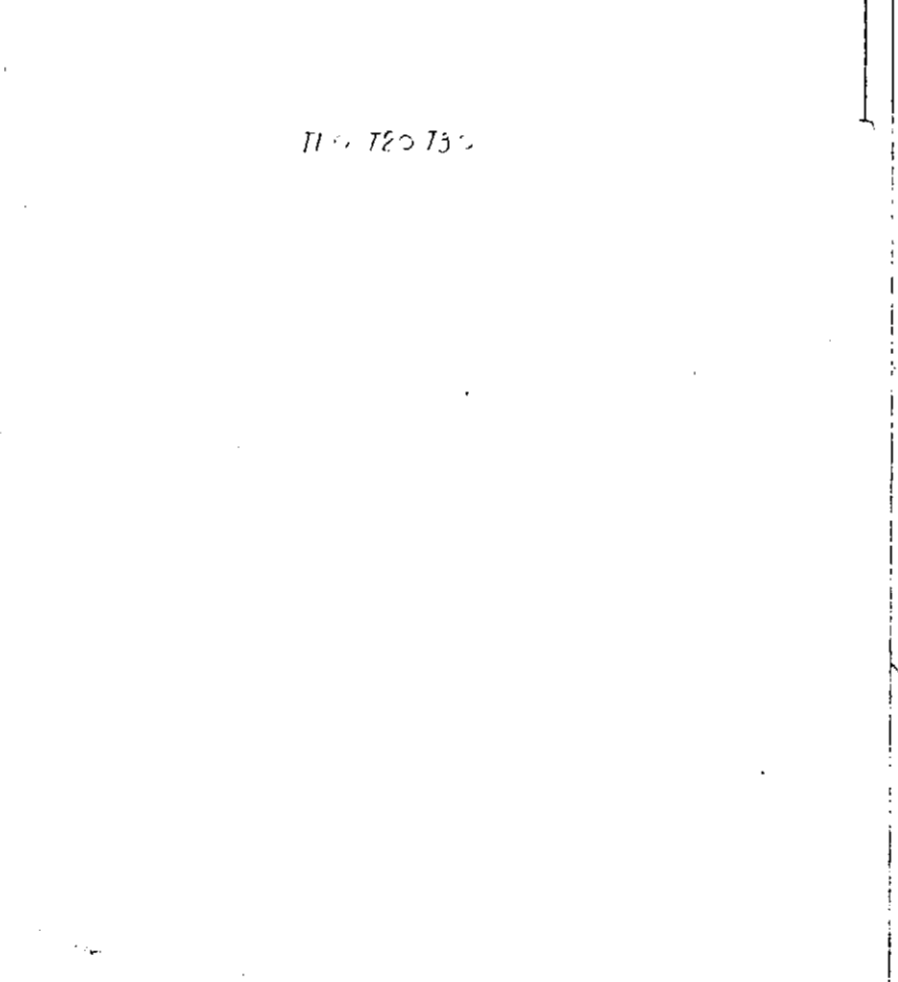
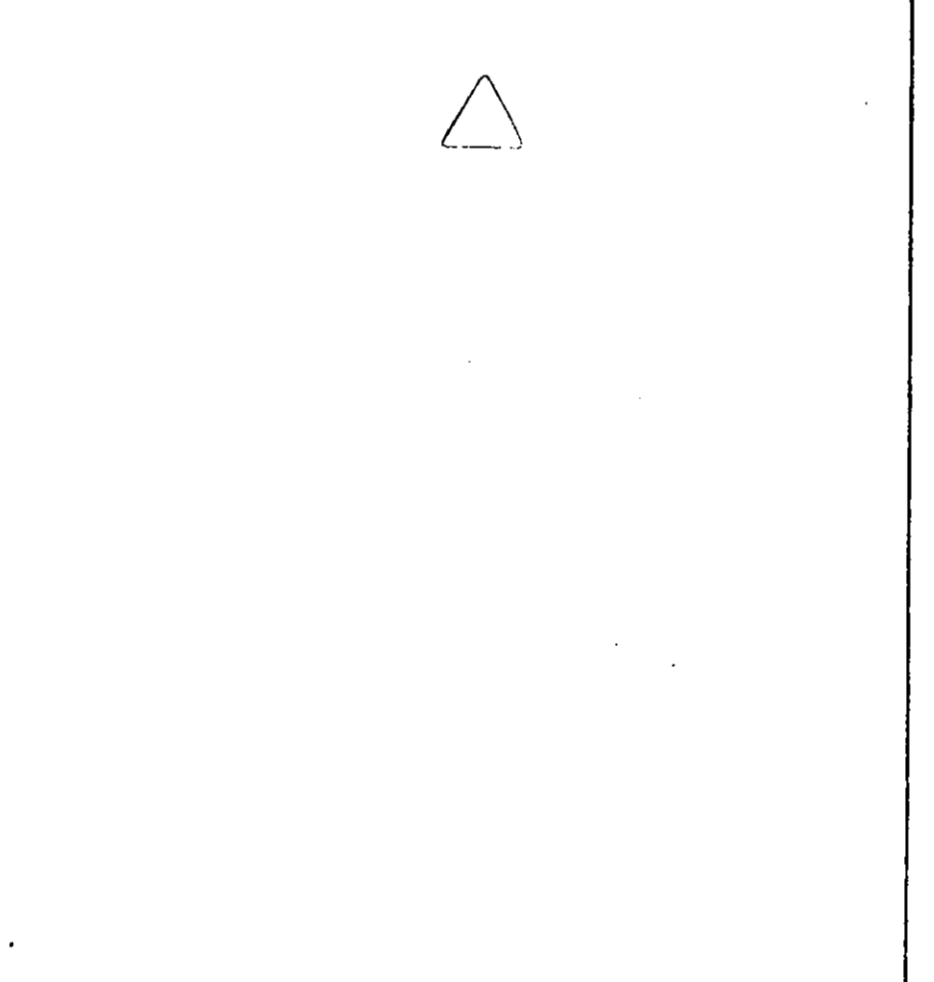
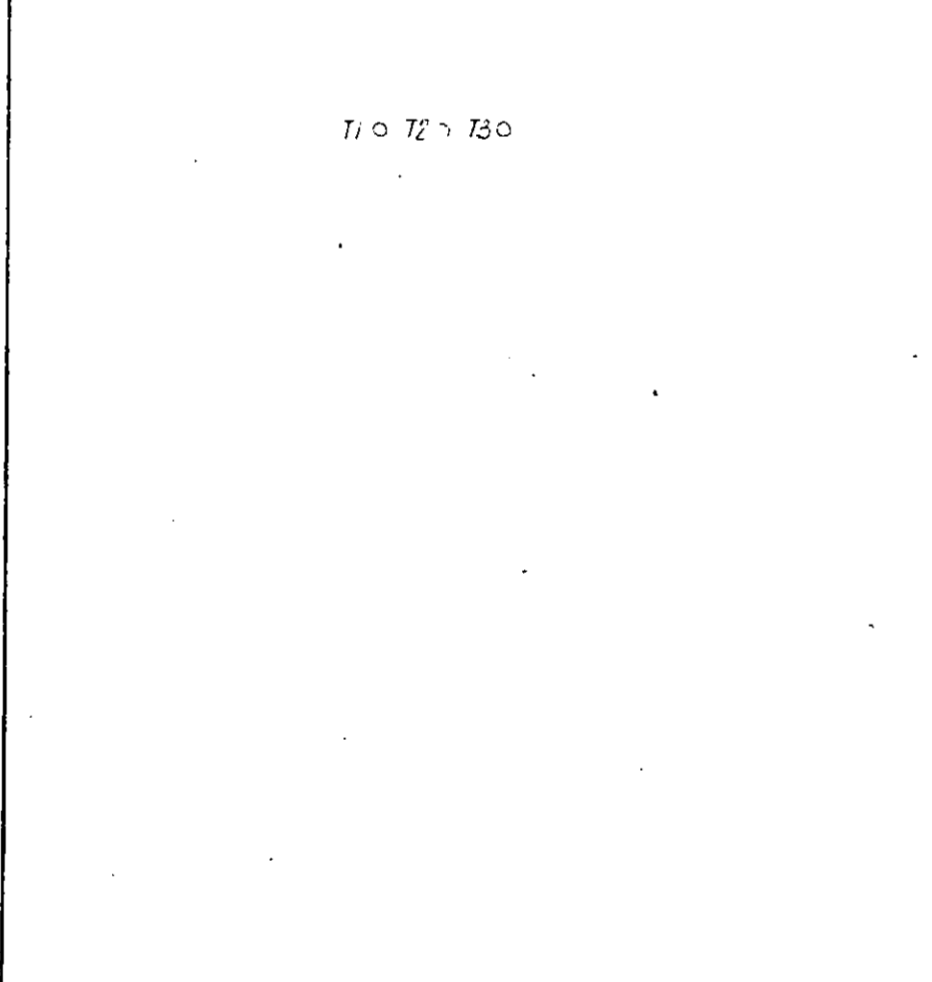
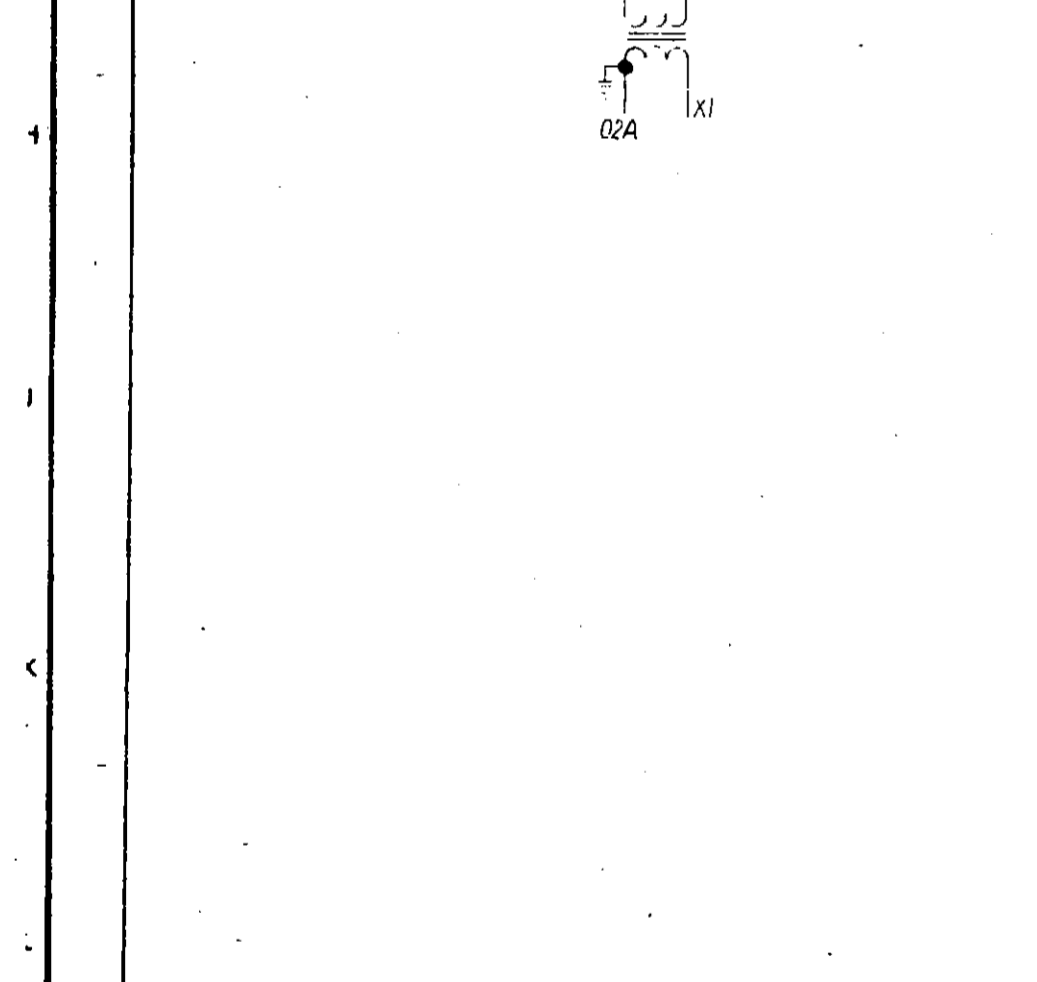
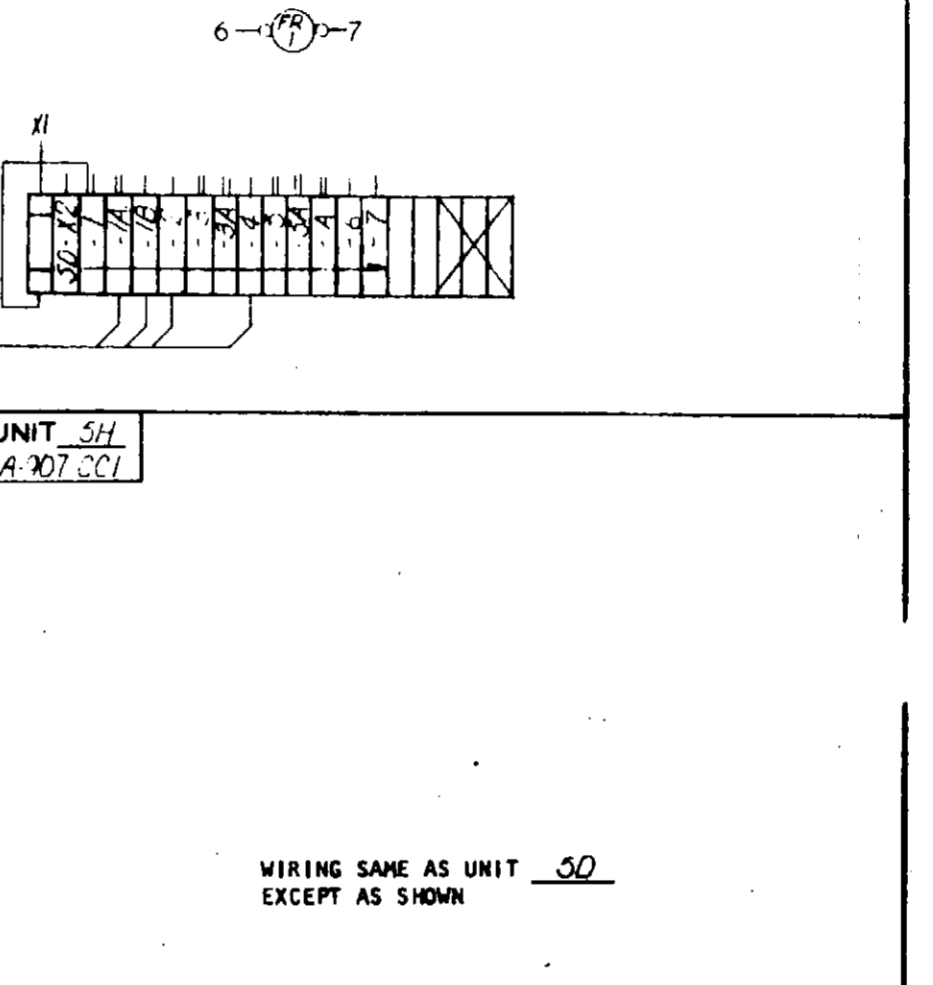
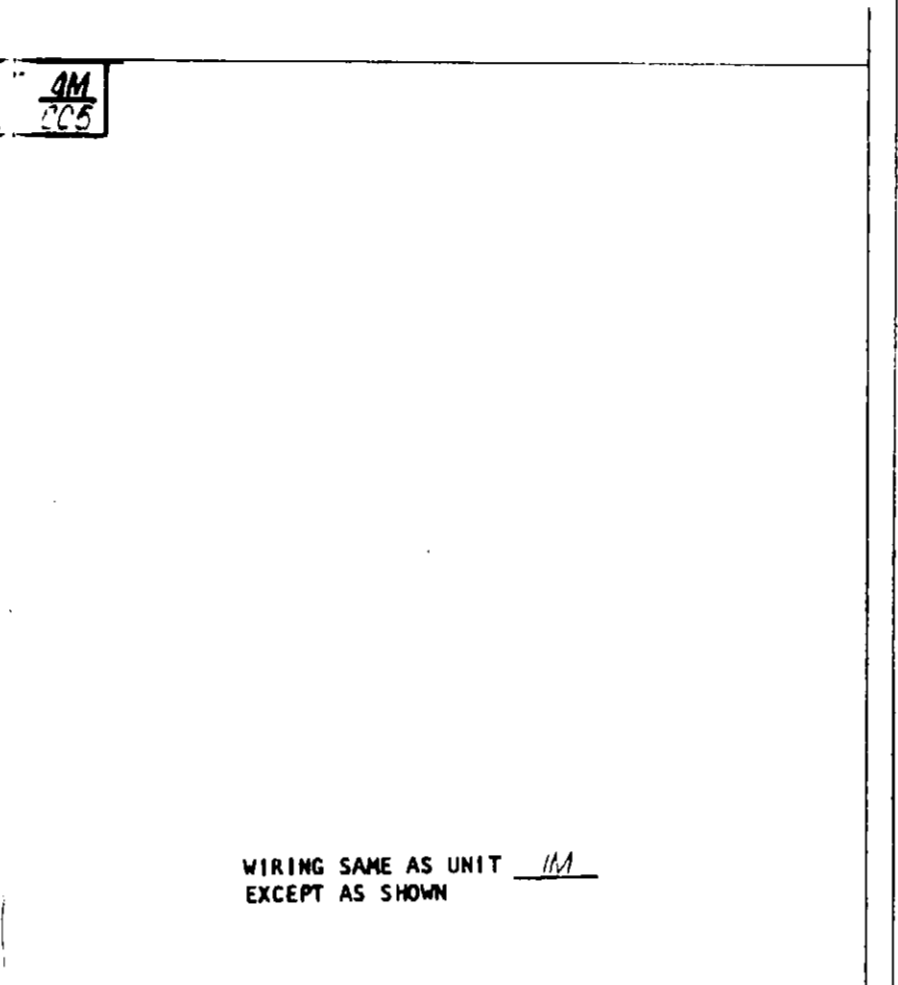
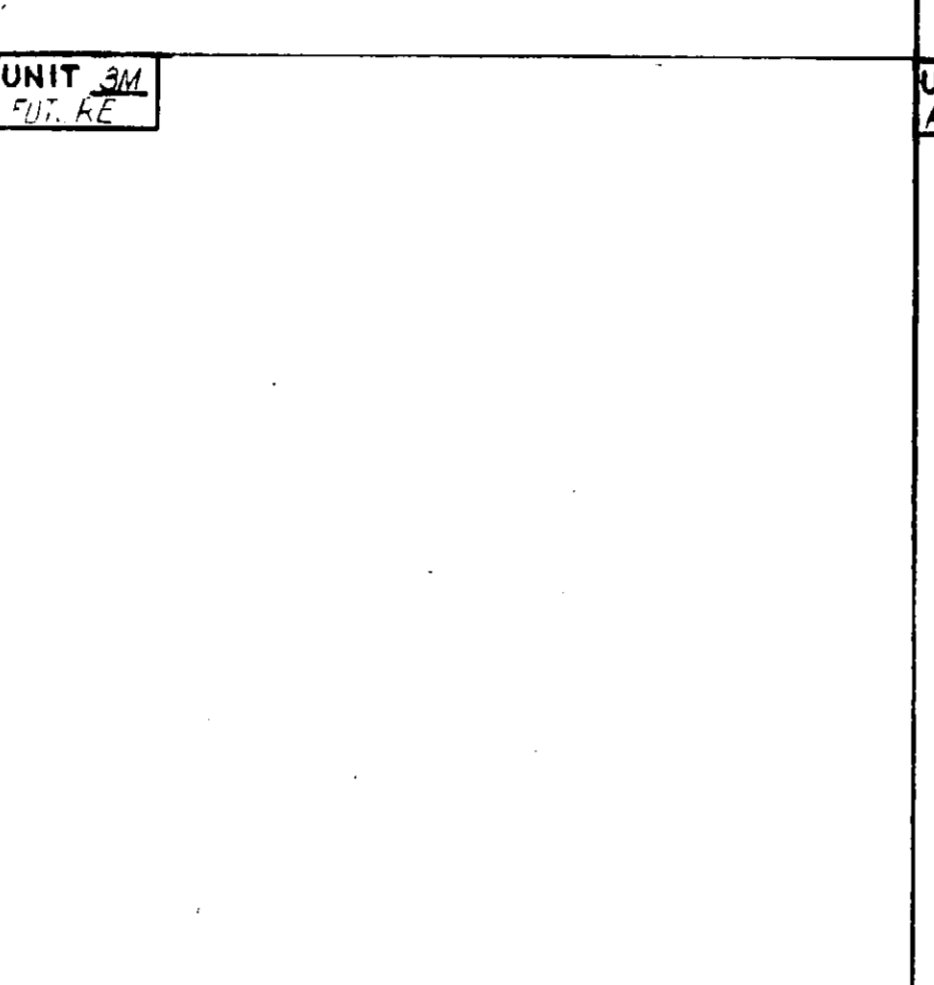
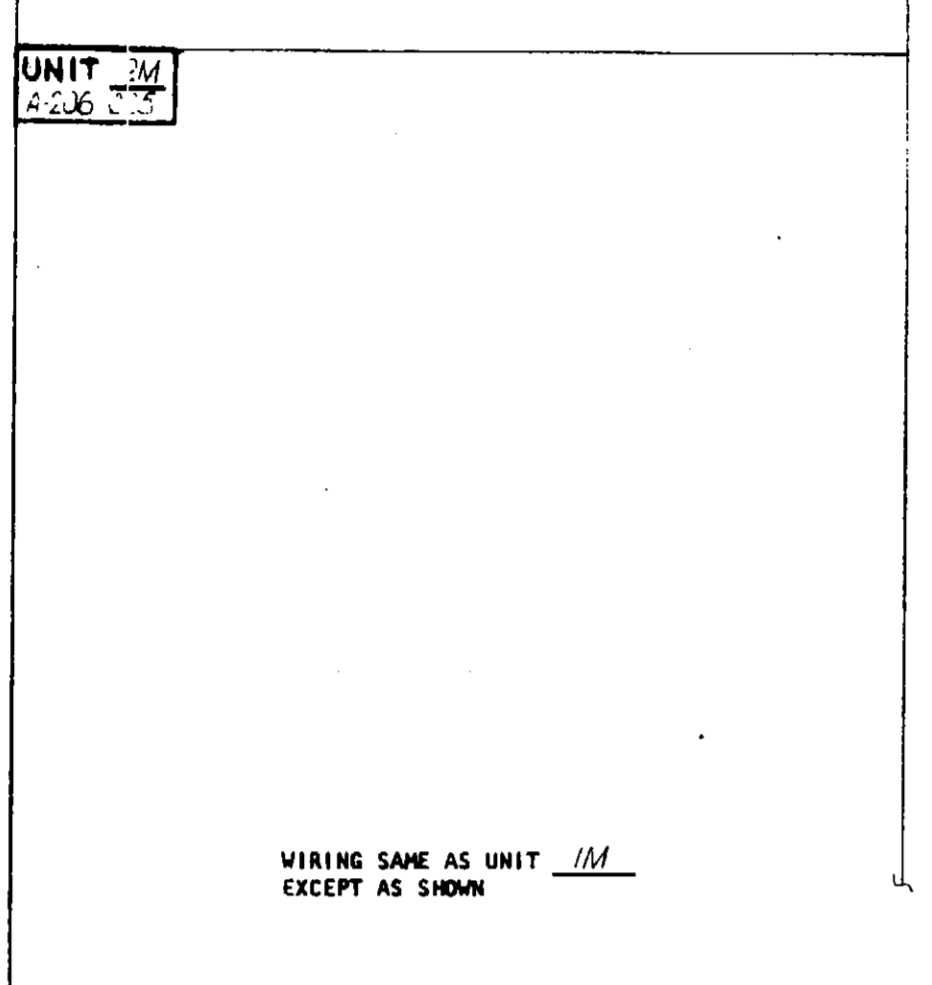
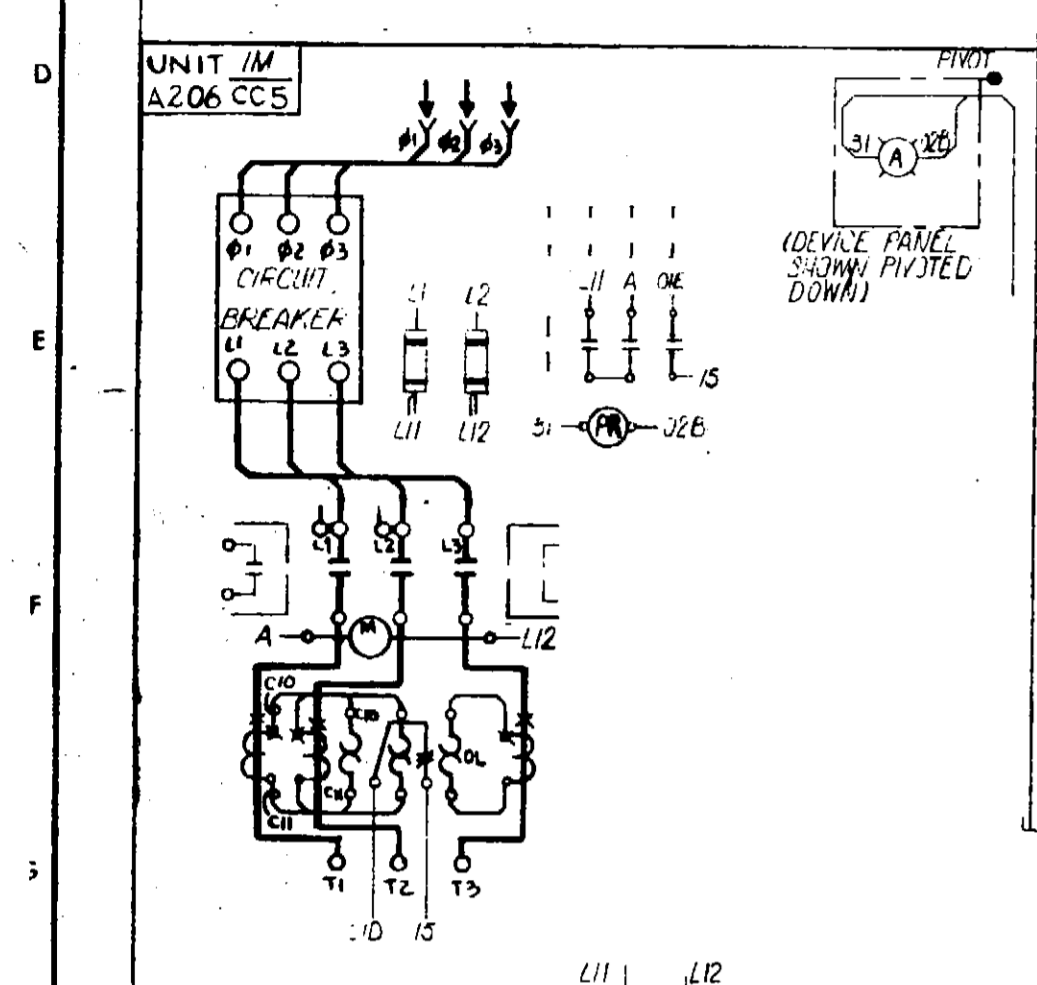
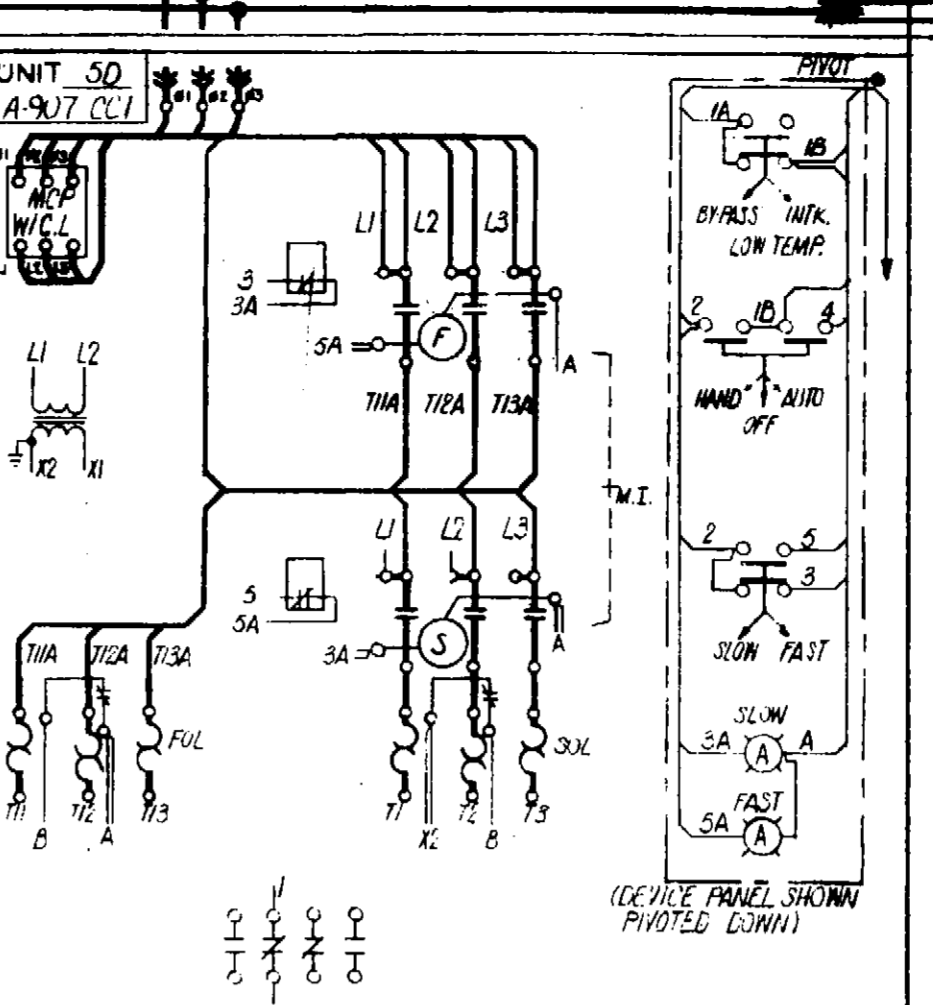
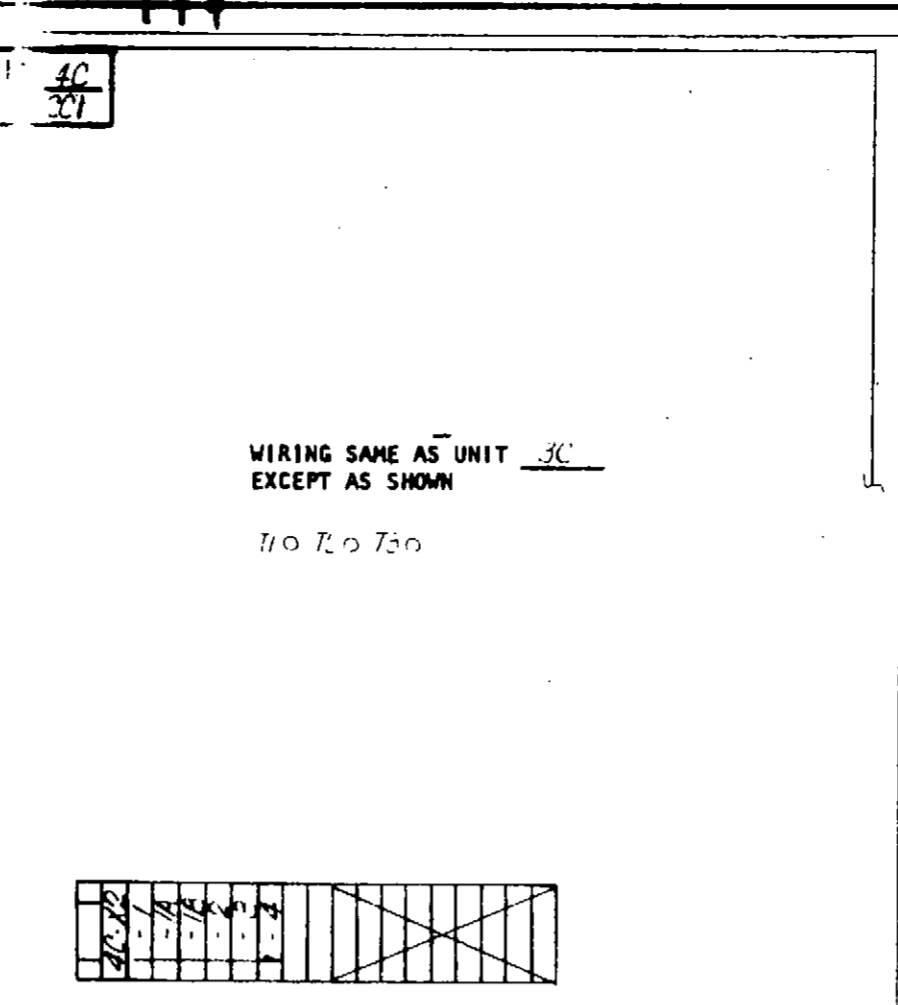
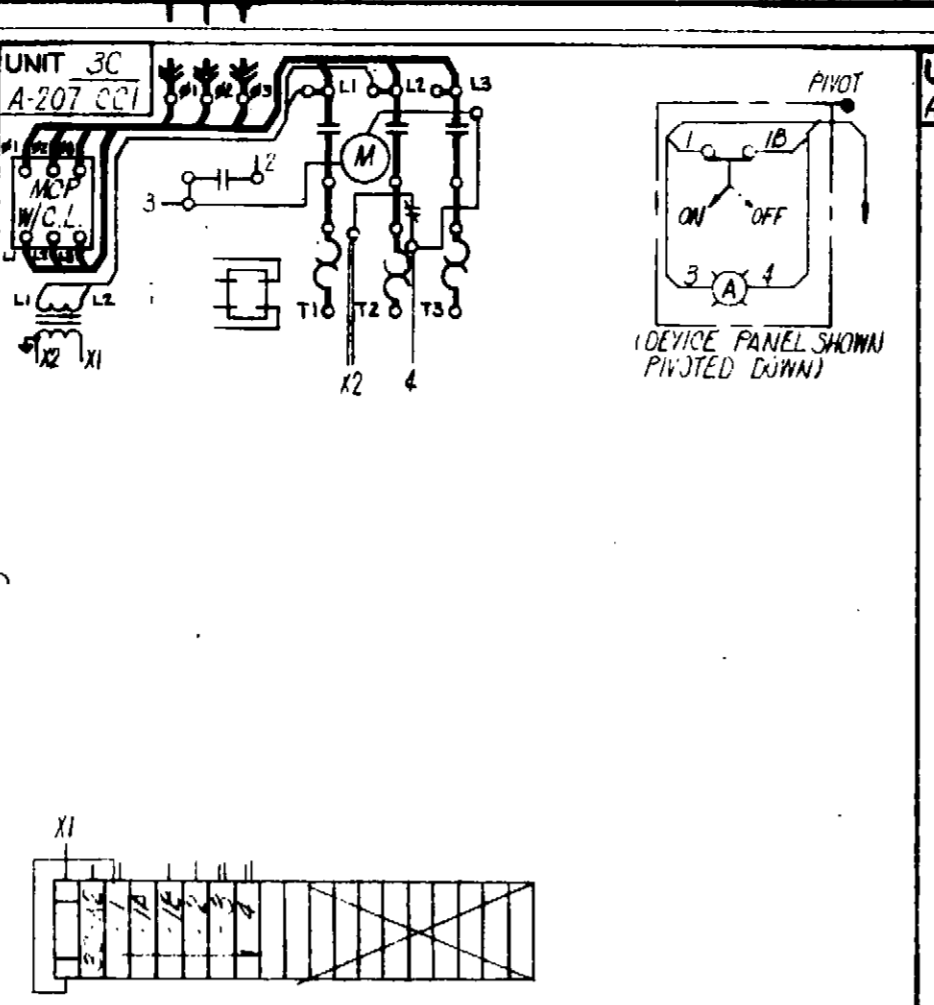
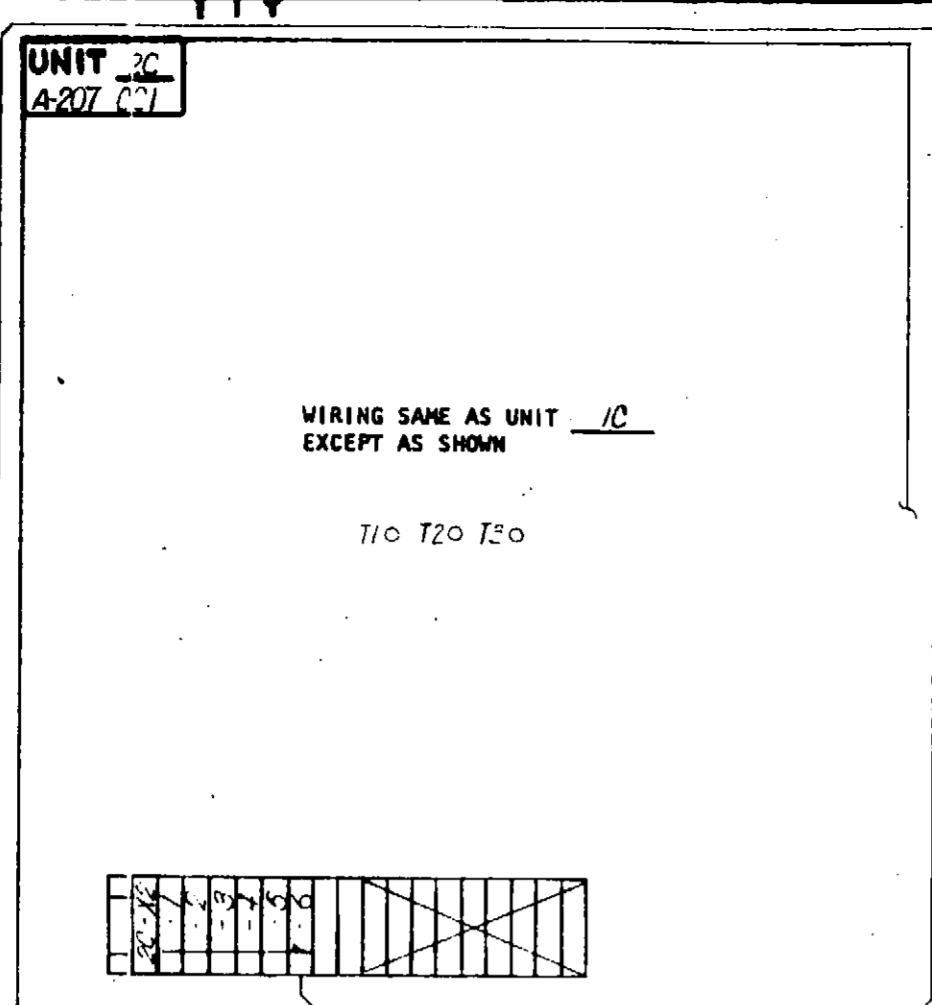
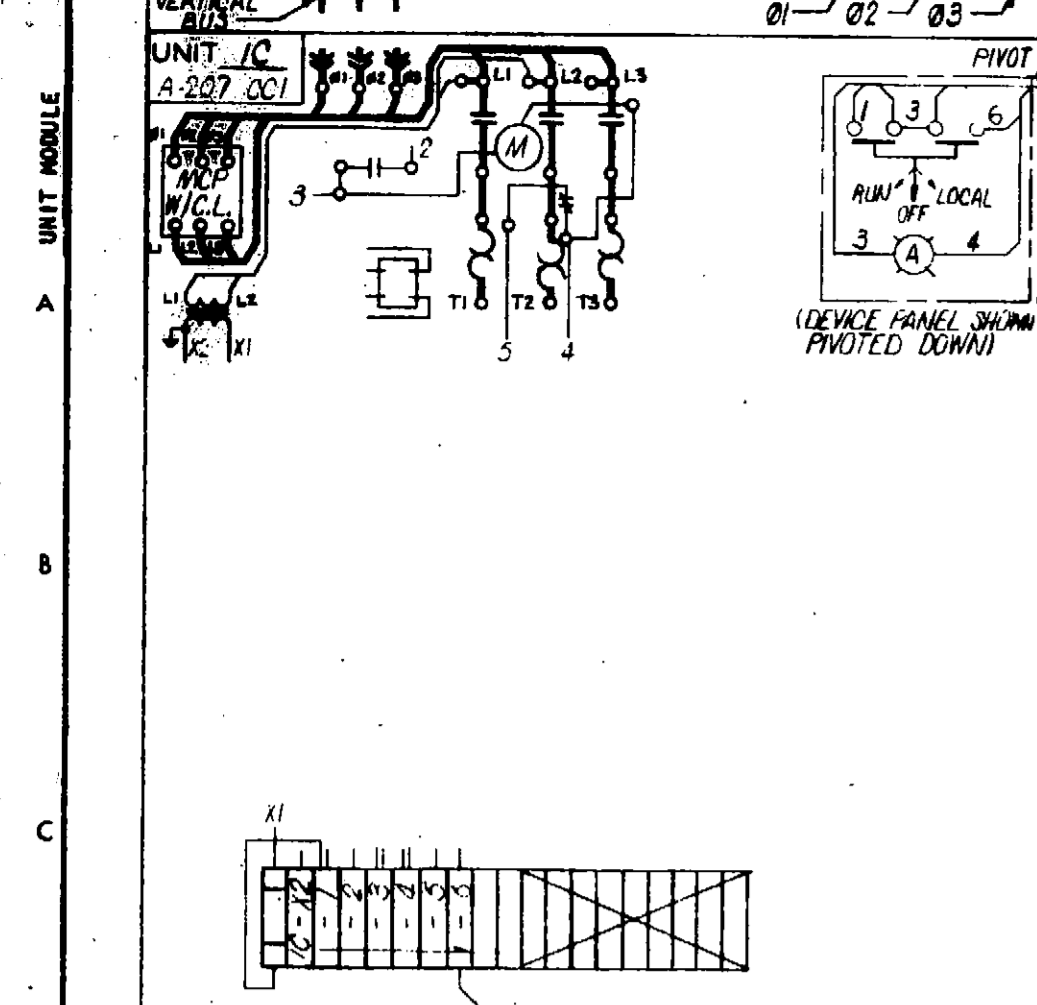
TITLE	REFERENCE DRAWINGS	AWING
C.C. SPEC SHEETS 1 THRU 13		200-45464-2A
SCHEMATIC DIAGRAM		EGS-1-100
CONNECTION DIAGRAM		CC F373

PLAN SET NO. 4033
11873

NO EXCEPTION TAKEN
 R. L. GLENN
 MAKE CONNECTIONS NOTED
 REVISE AND RESUBMIT
 DATE: 10/12/23 BY: [Signature]
 STEVENS, THORNTON & SUNTAN, INC.

Prepared by: C. LALE Date: 3/27/73
 Approved by Customer: Date:
 Notes:
 Westinghouse Electric Corporation
 General Control Division - CHICAGO PLANT
 CAMPBELL GEESE PUMP STATION
 Gen. Ord. No. 200-44166 Rev. No. 2A
 TYPE W - CONTROL CENTER CONNECTION / DIAGRAM
CG67F371

CHANGE



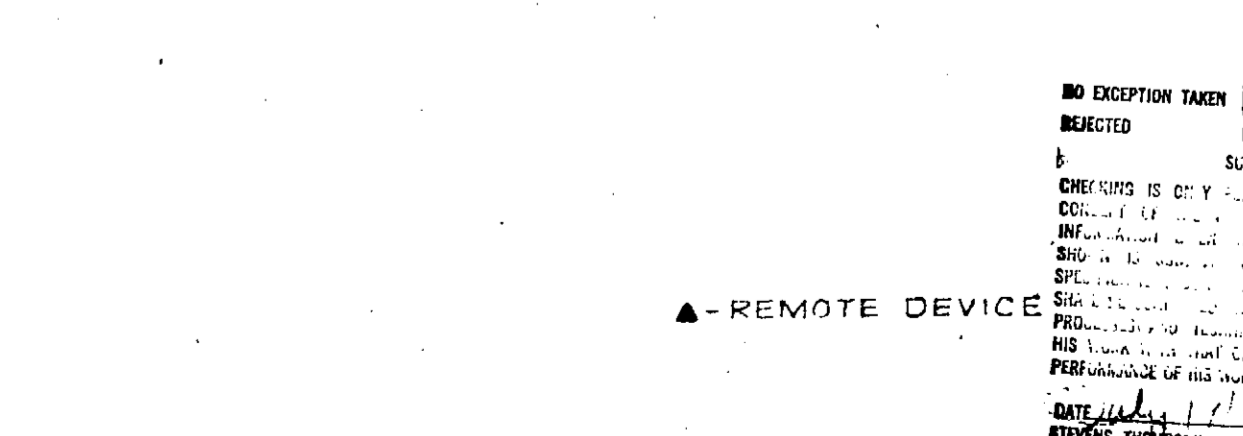
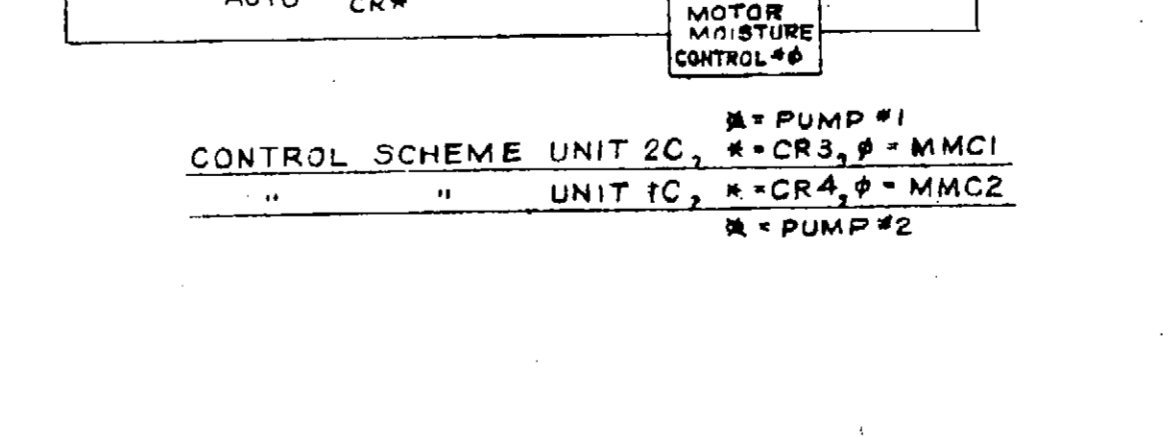
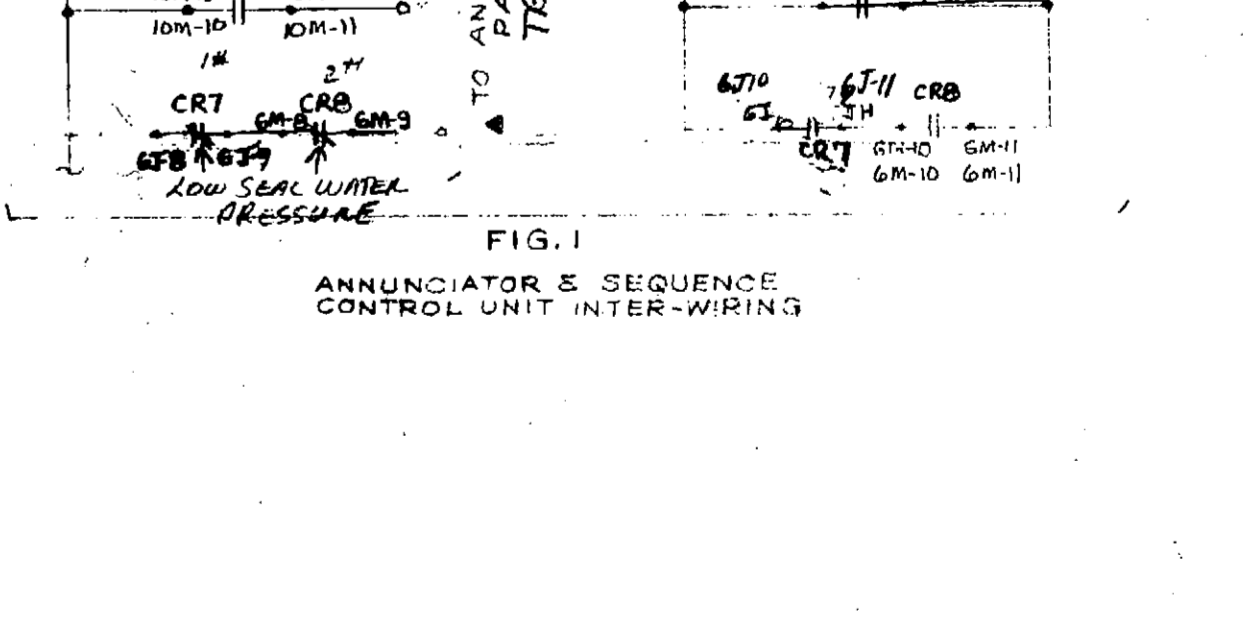
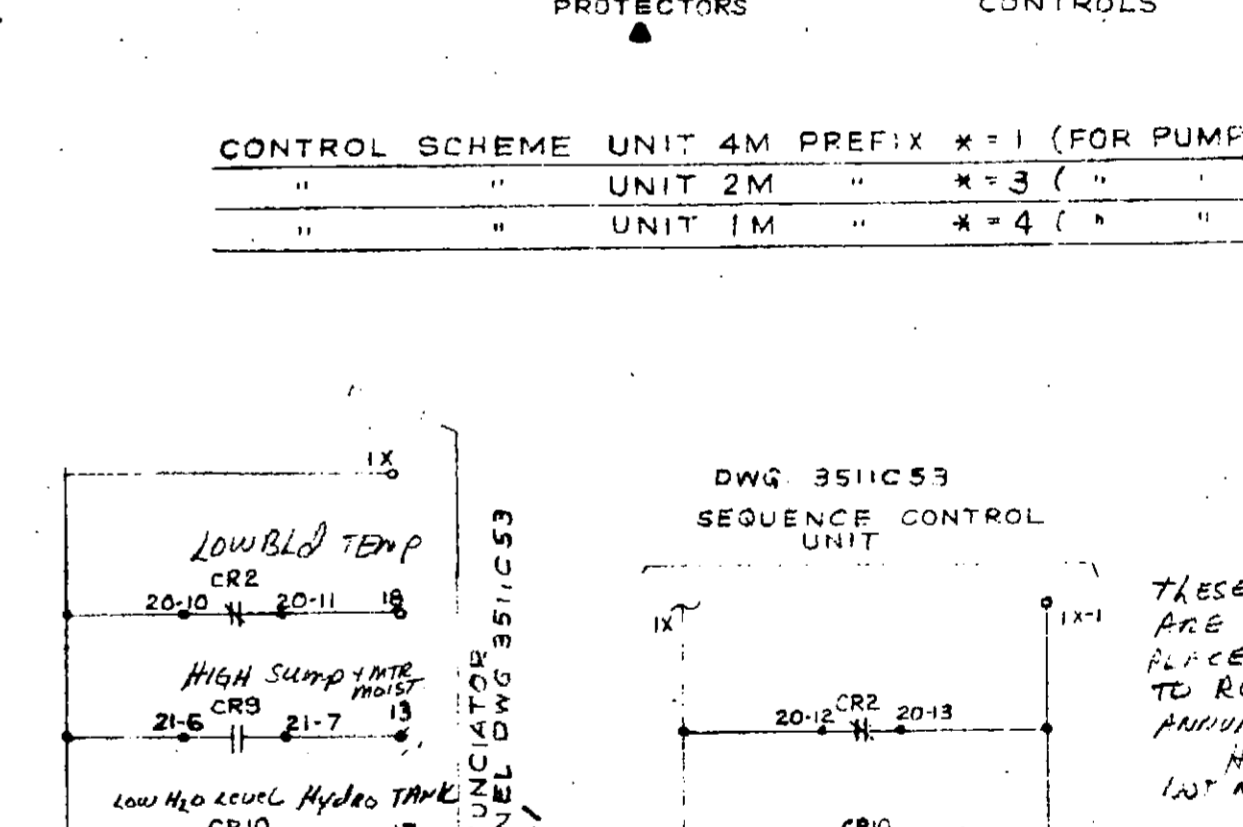
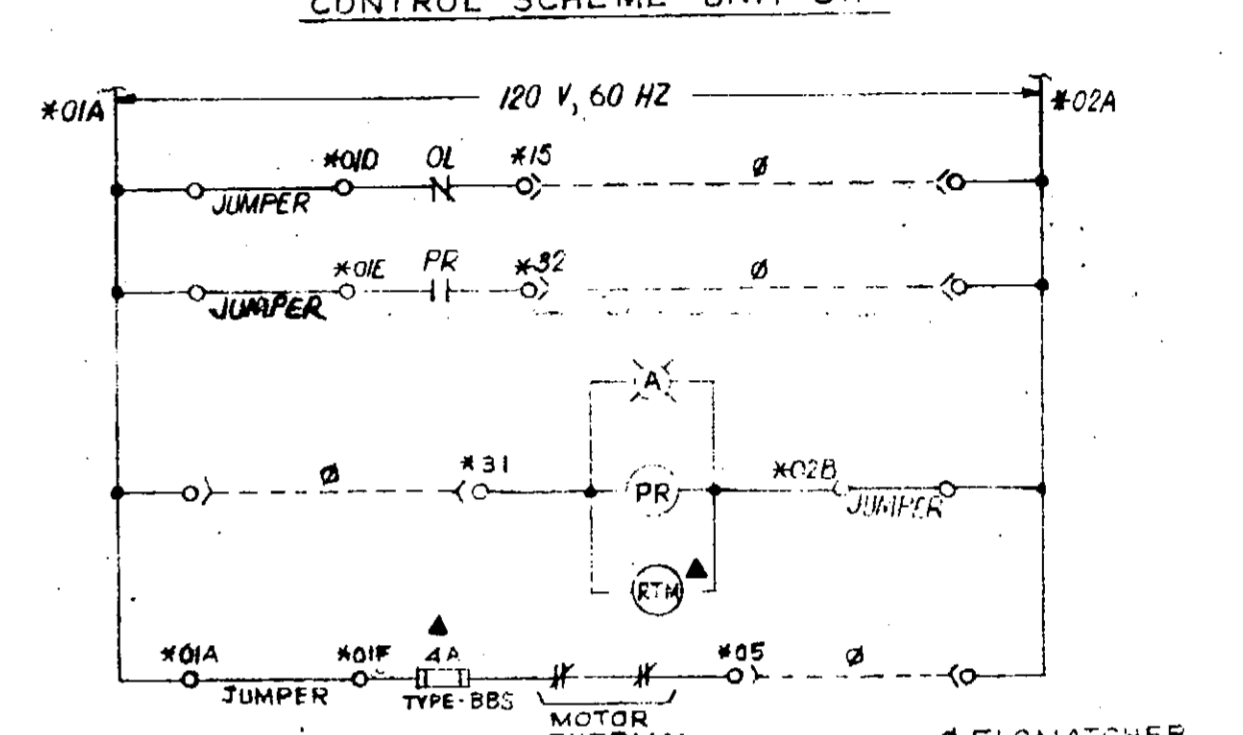
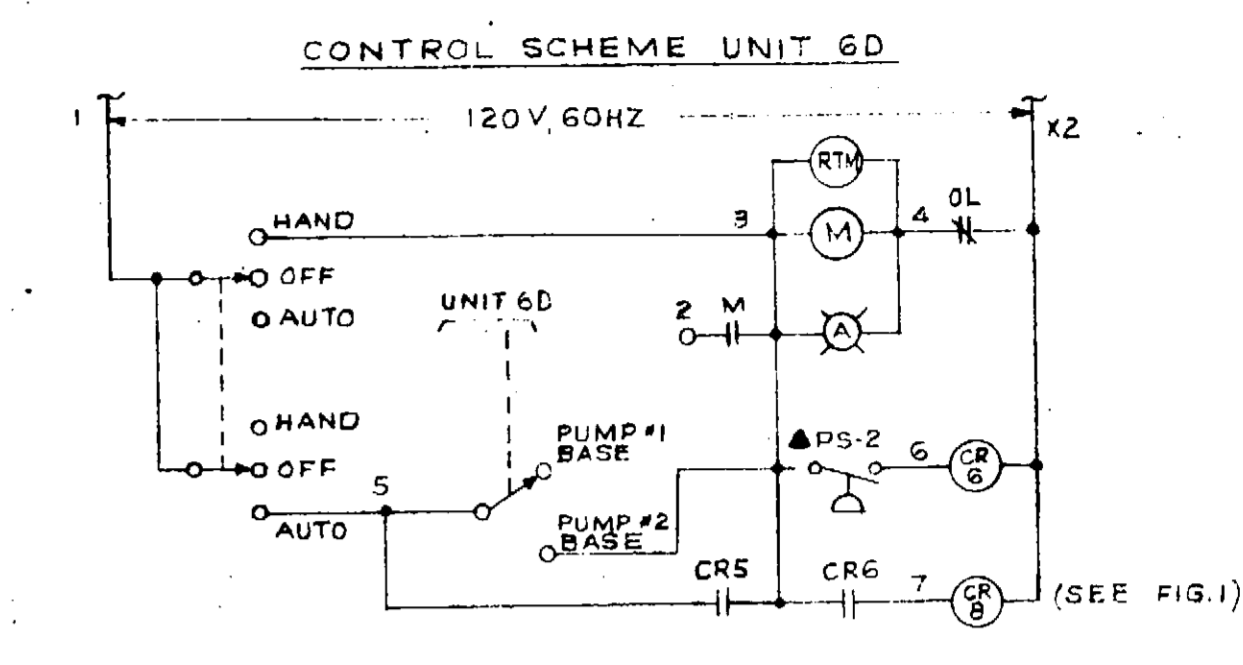
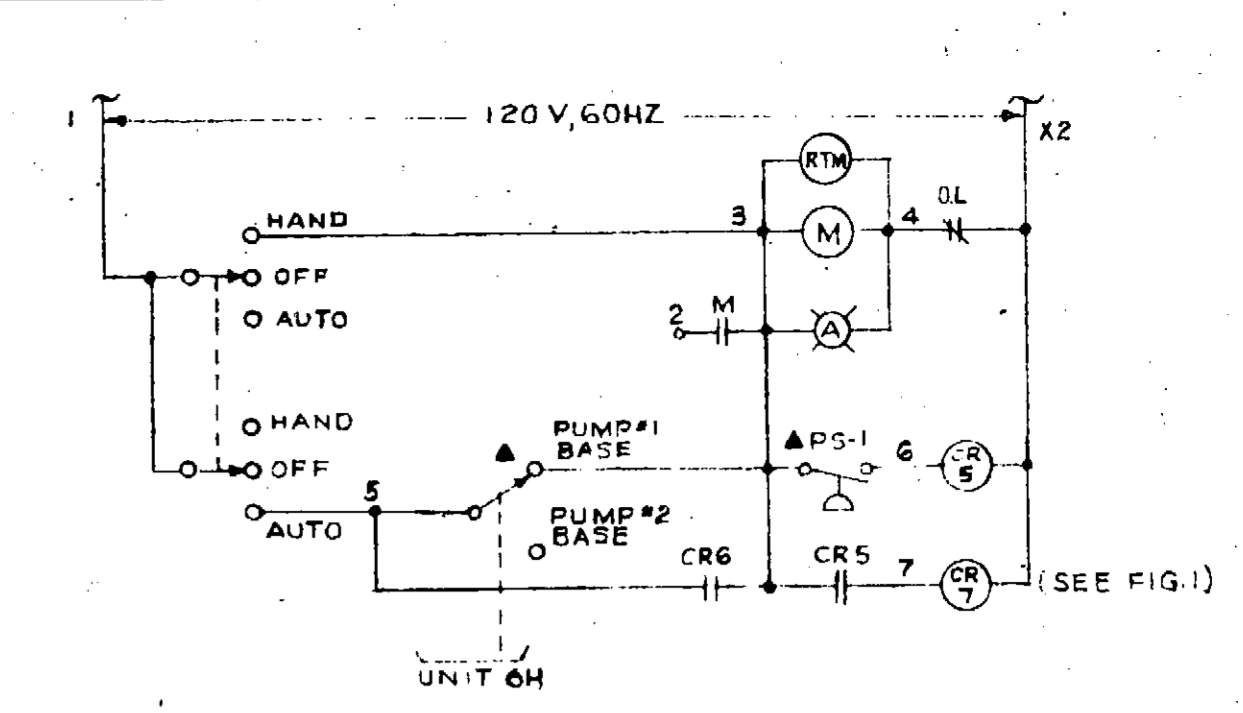
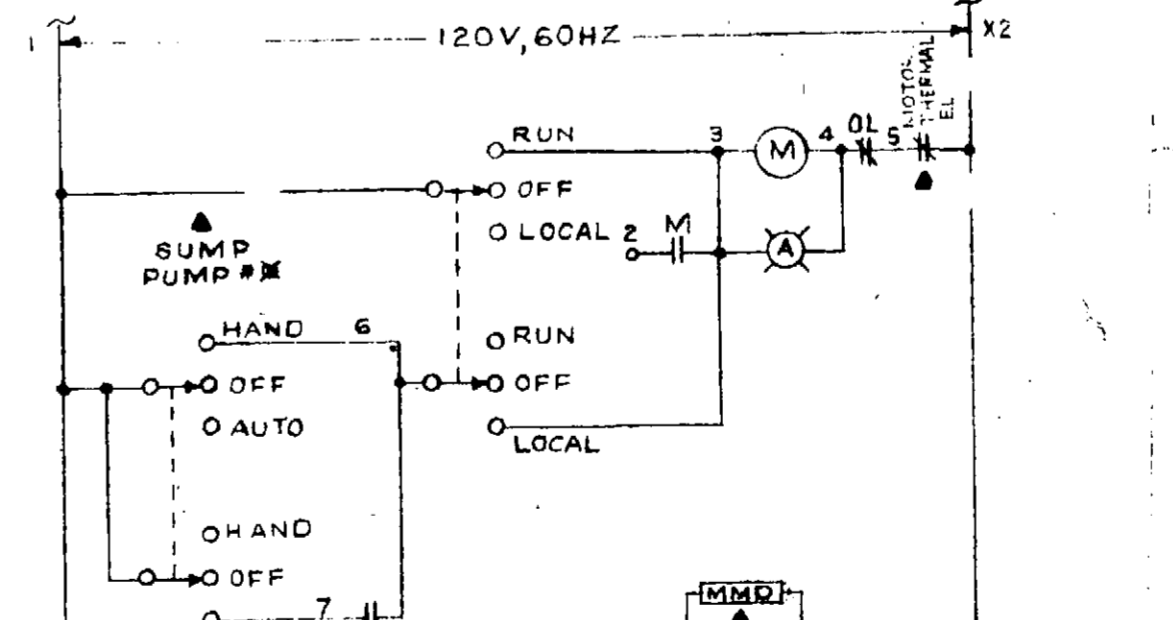
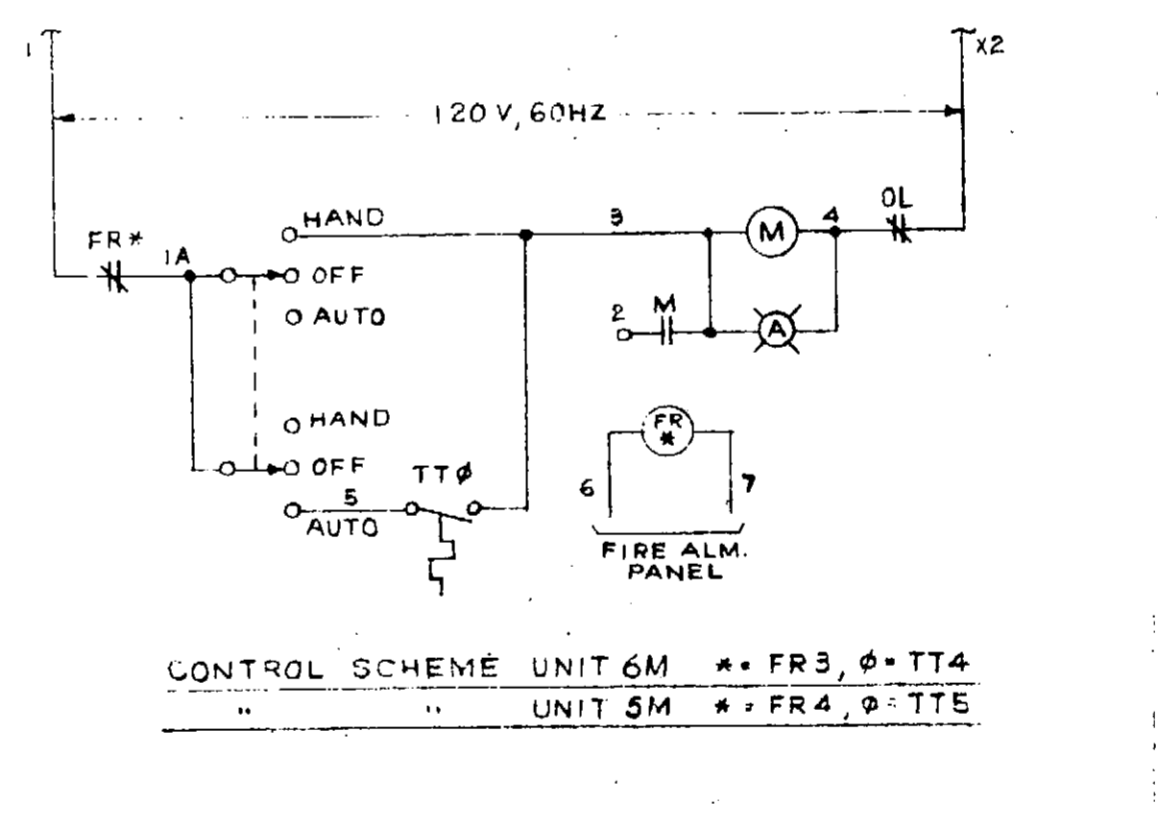
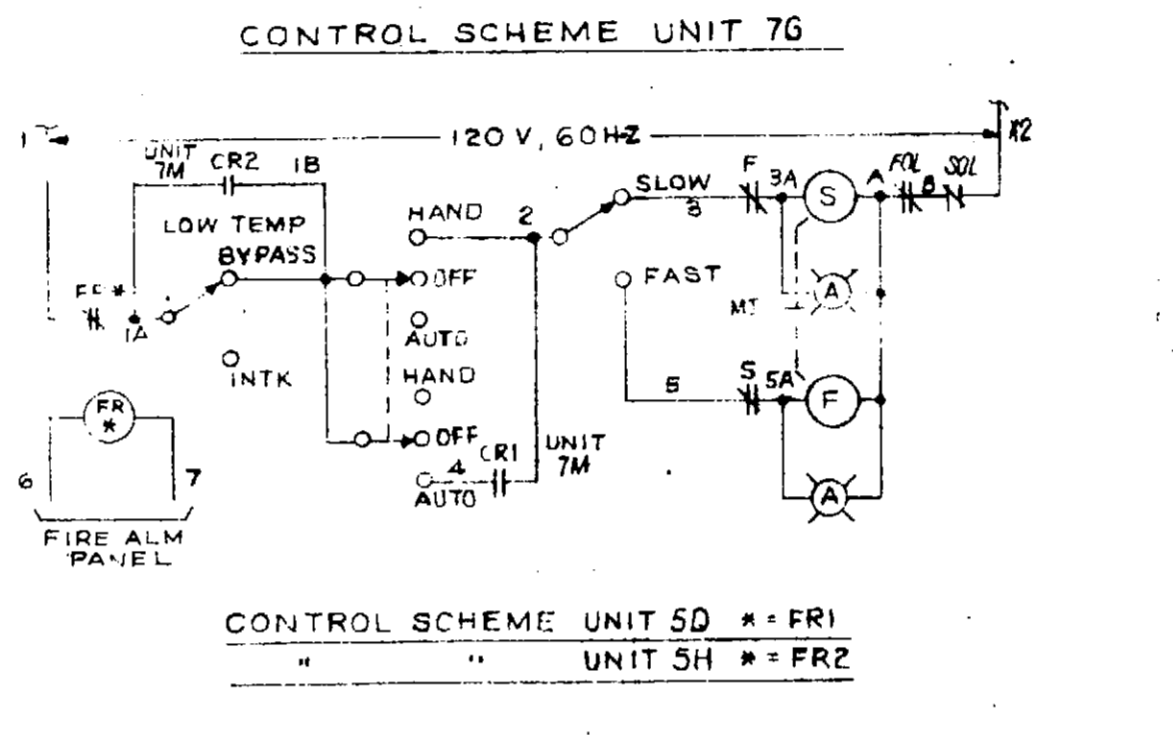
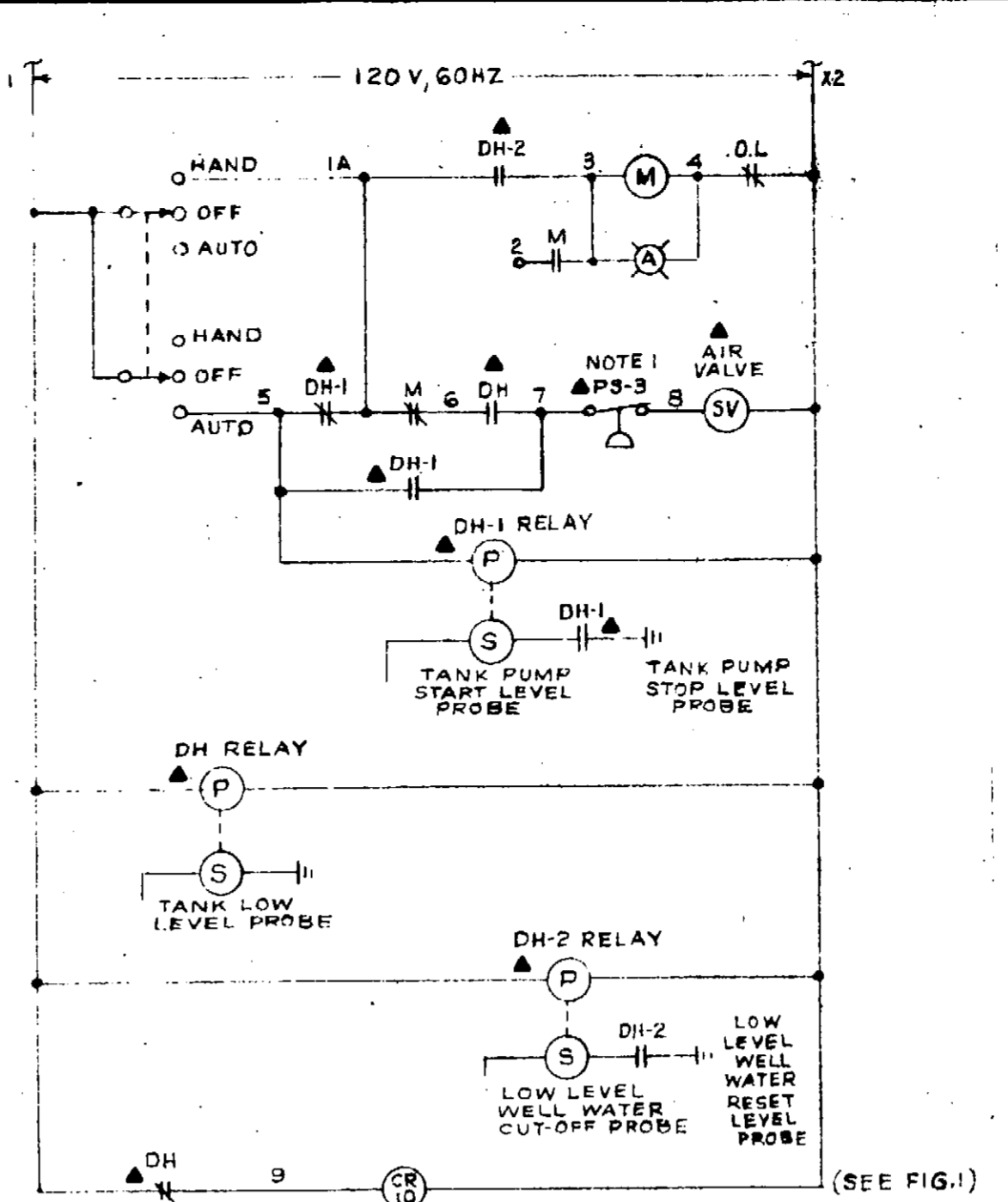
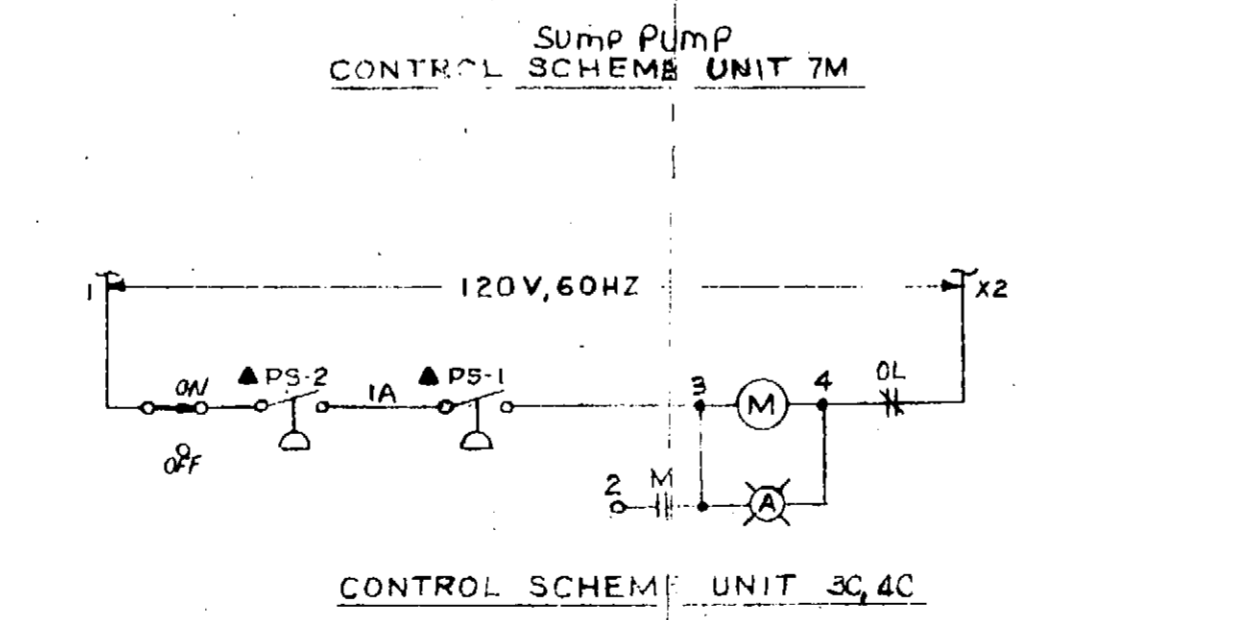
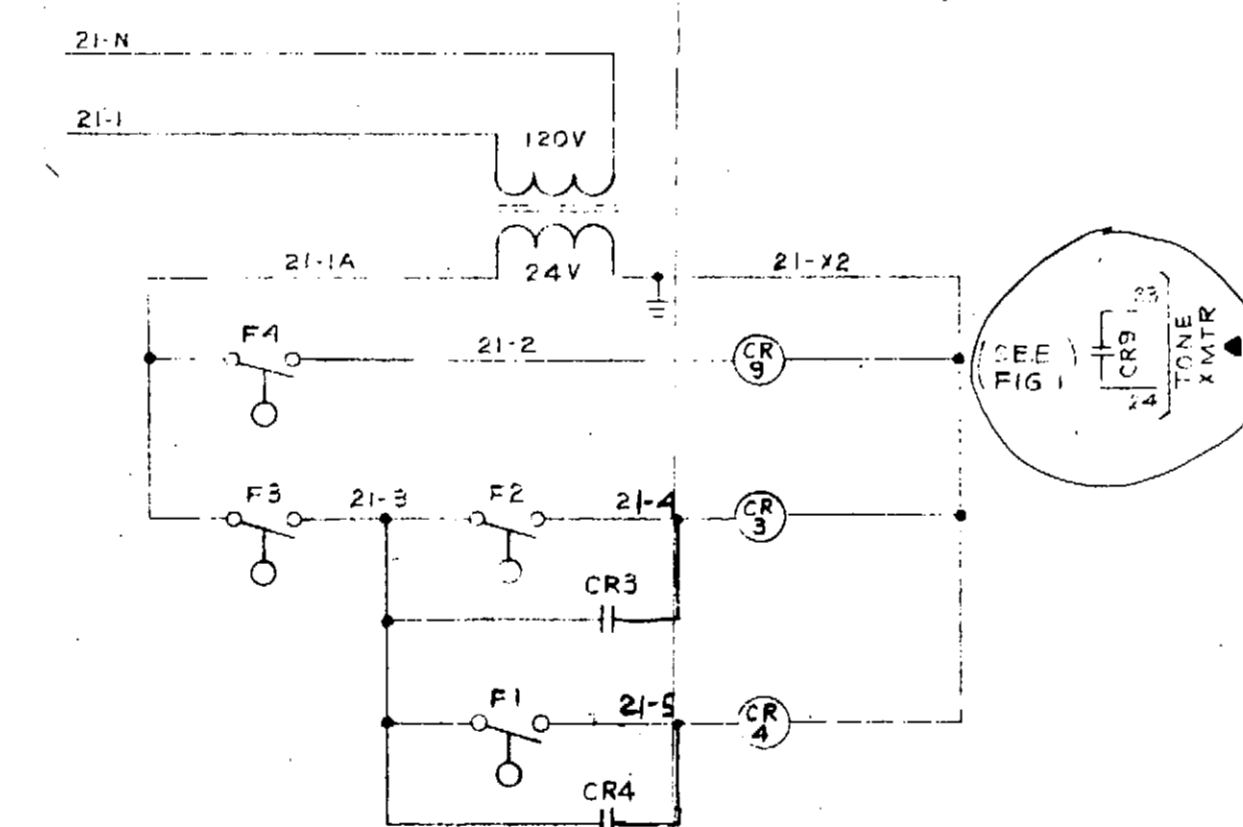
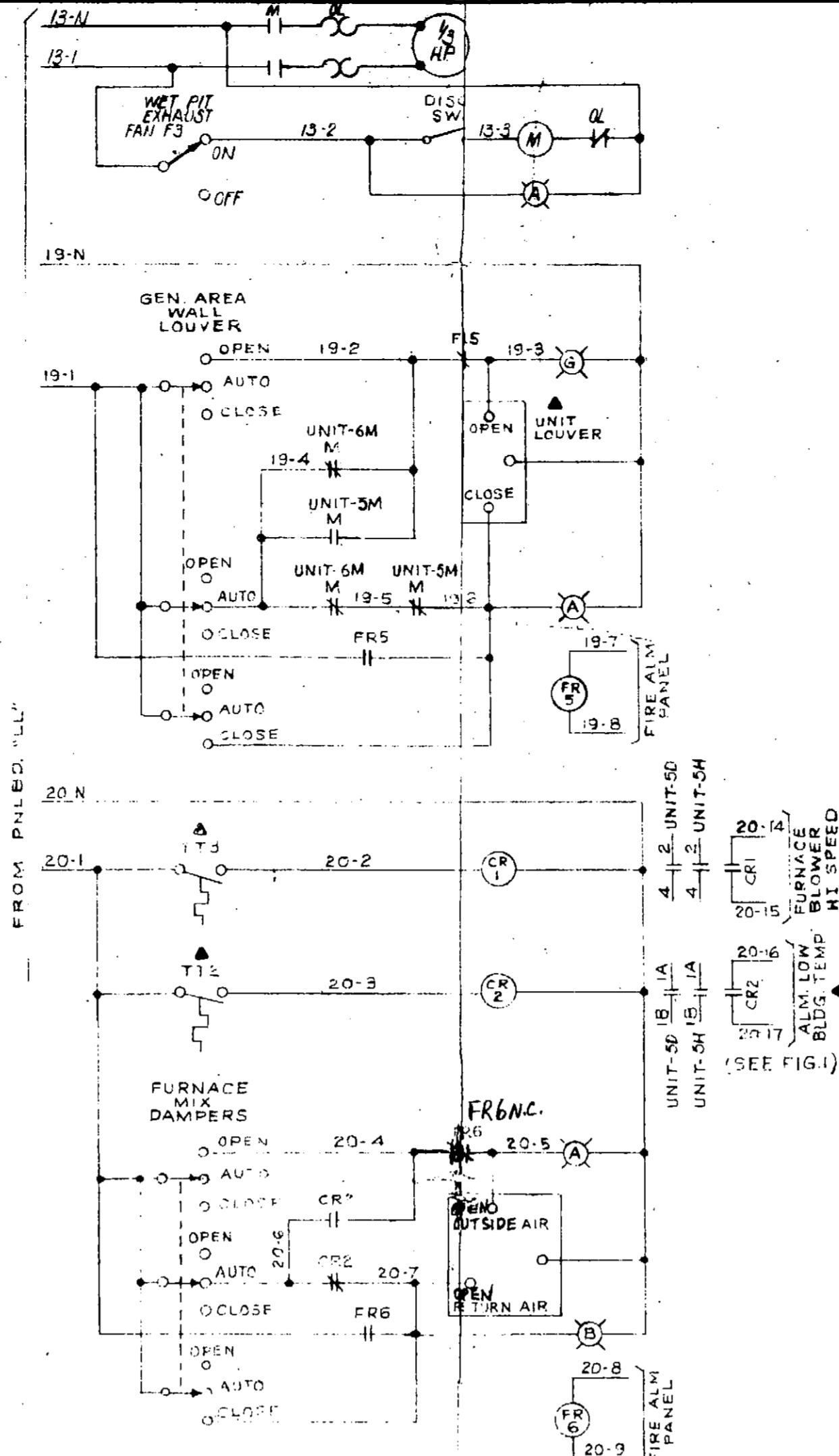
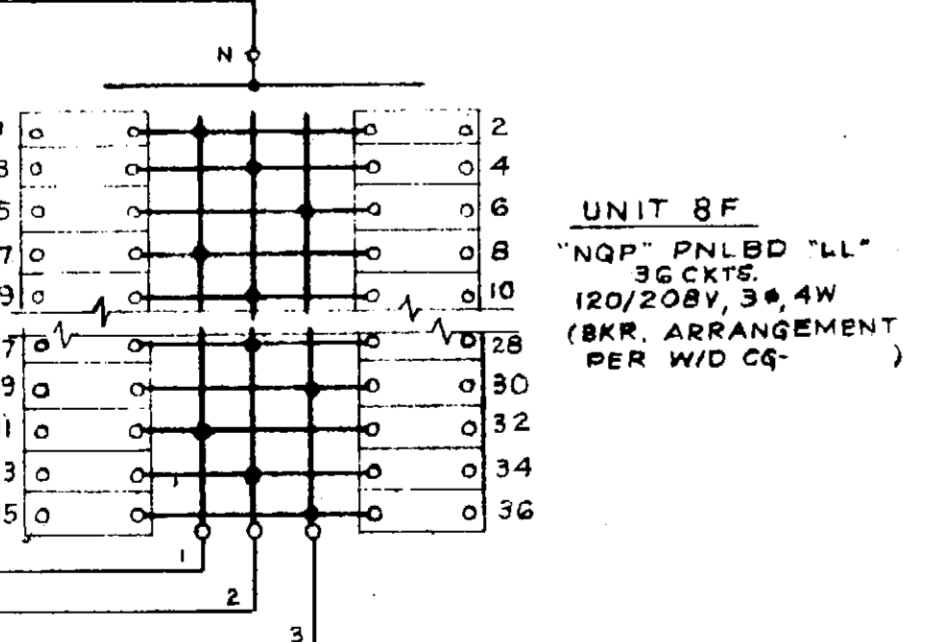
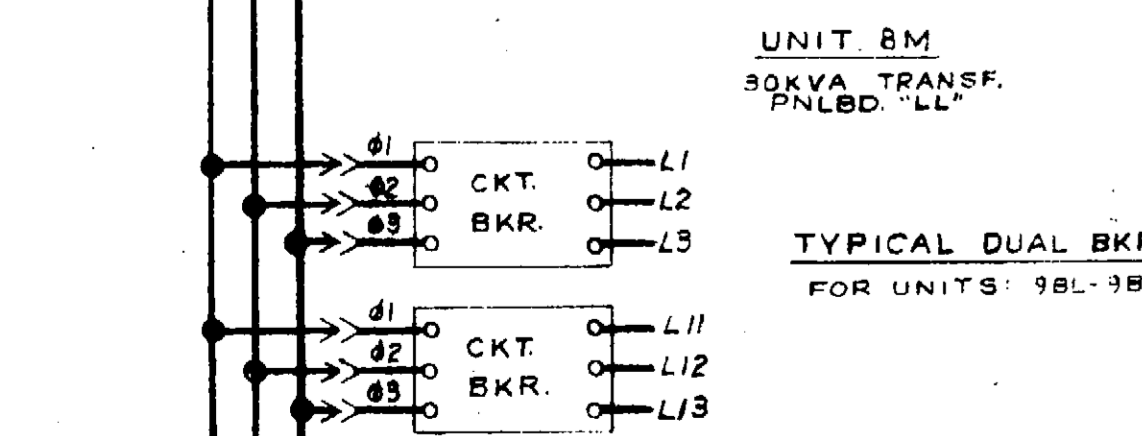
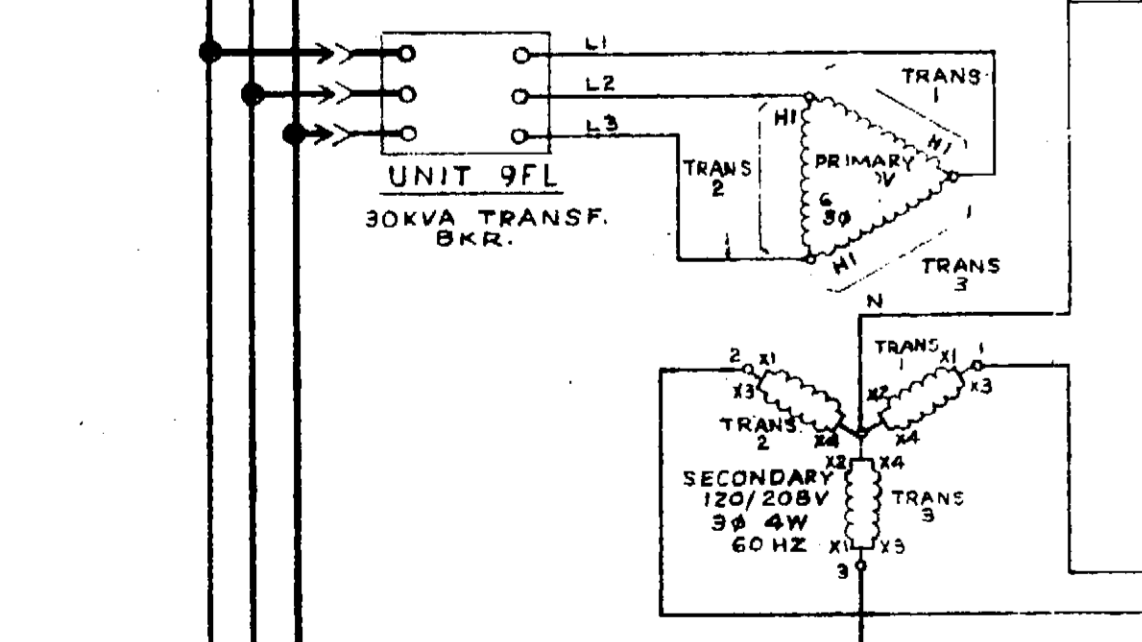
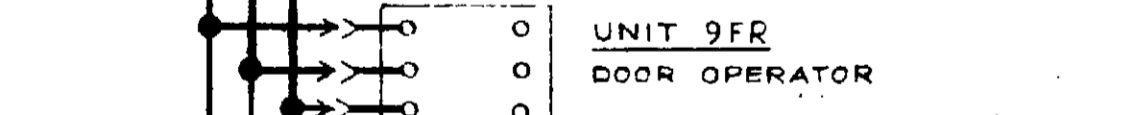
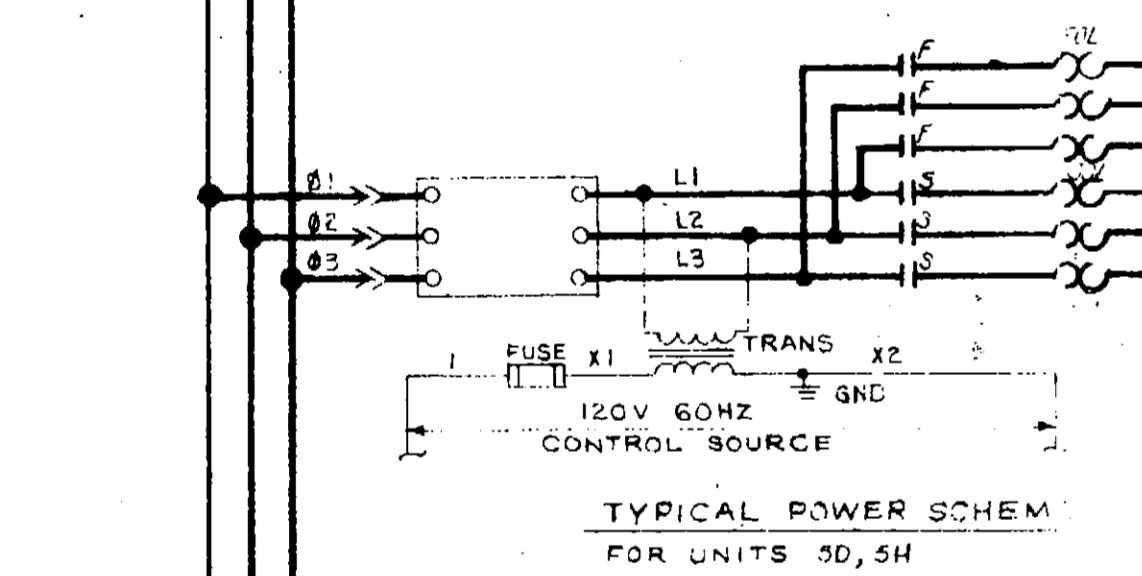
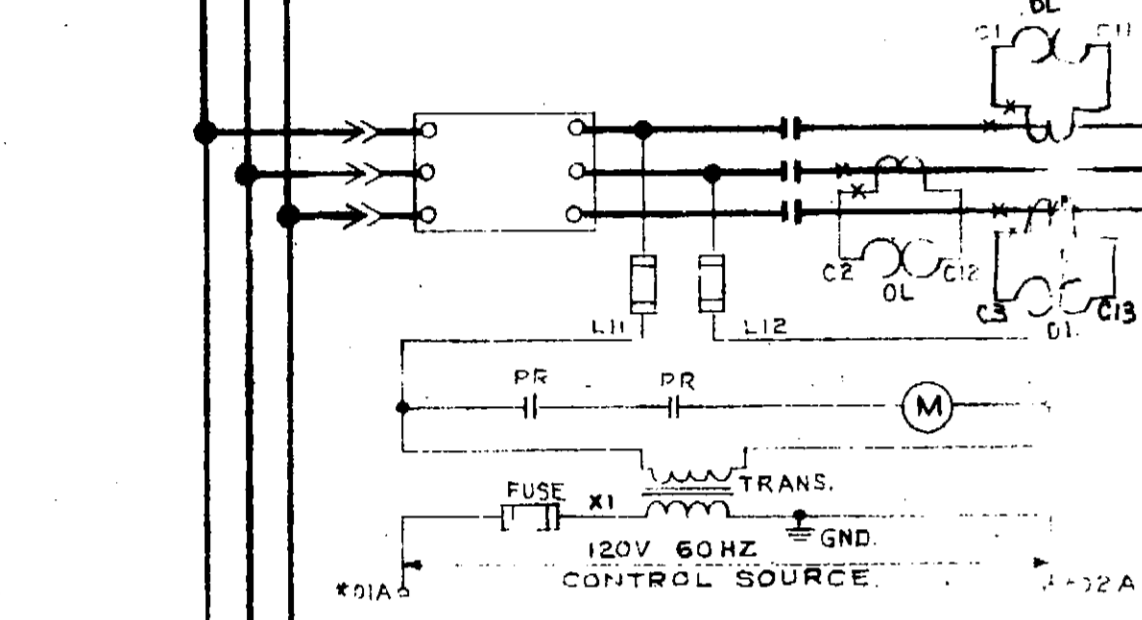
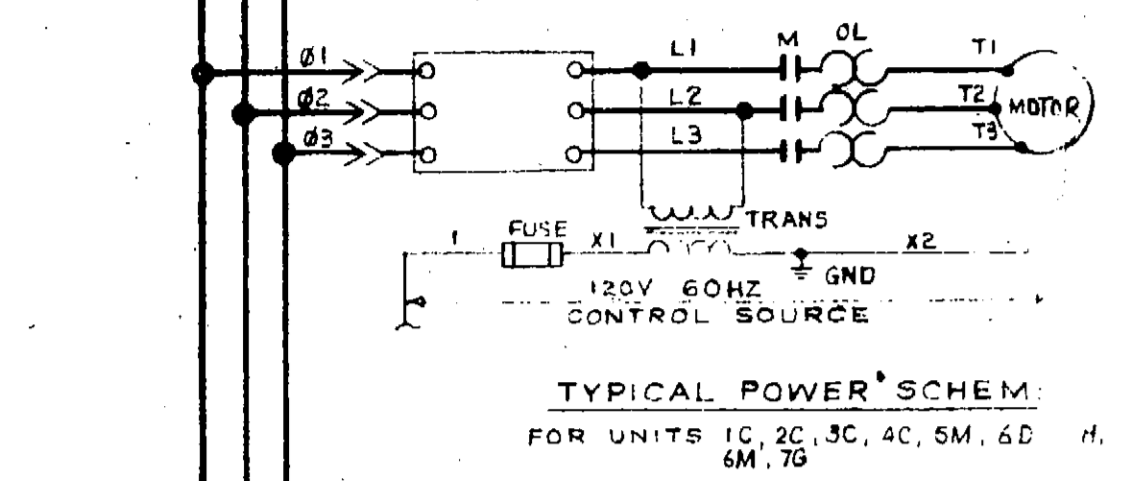
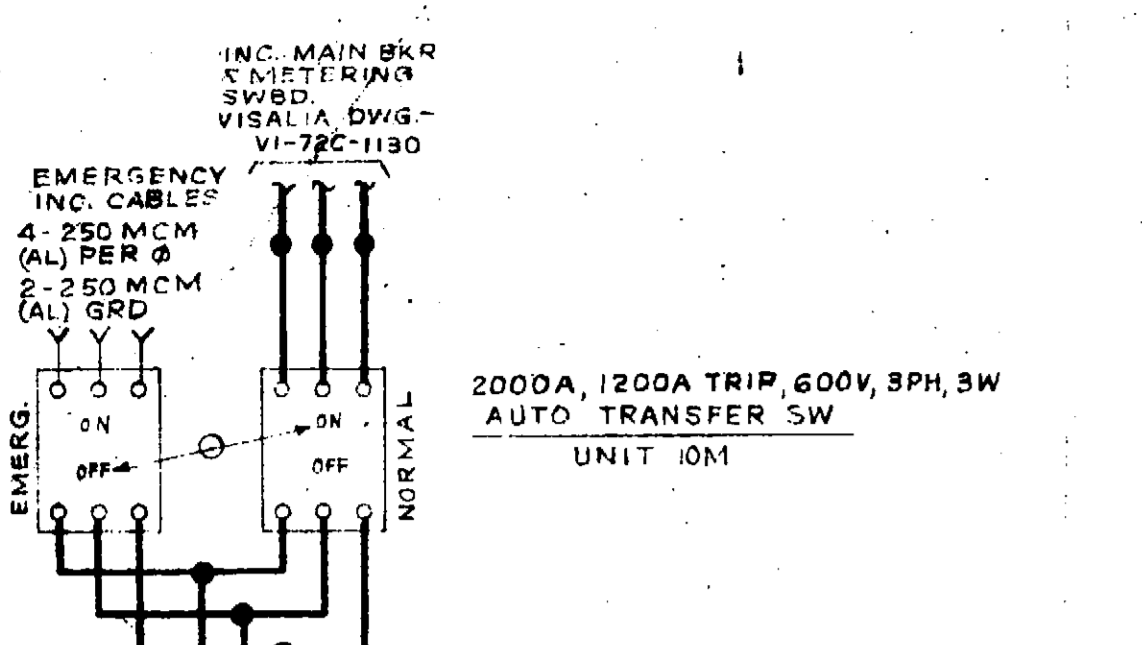
- SYMBOLS:**
- FUTURE SPACE
 - UNUSABLE SPACE
 - SPARE UNIT
 - 3rd OL IF SPECIFIED
 - MASTER TERMINAL BLOCK COMPARTMENT
 - VERTICAL COMPARTMENT

- NOTES:**
1. ALL INTERNAL CONNECTIONS ARE INSTALLED FROM TOP OF MASTER TERMINAL BLOCKS TO THEIR RESPECTIVE UNIT TERMINAL BLOCKS.
 2. ALL INTER-CONNECTIONS ARE INSTALLED AT MASTER TERMINAL BLOCKS.
 3. CUSTOMER'S CONNECTIONS TO BE INSTALLED AT BOTTOM OF MASTER.
 4. MOTOR CONNECTIONS ON NEMA SIZE 1, 2 AND 3 STARTERS ONLY ARE WIRED TO MASTER TERMINAL BLOCKS.
 5. SHIPPING BREAKS ARE PROVIDED WITH NECESSARY CONNECTIONS TO BE MADE BY CUSTOMER.

TITLE	REFERENCE DRAWINGS	DATE
C.C. SPEC SHEETS 1 THRU 13		11/73
SCHEMATIC DIAGRAM	CG67F-371	
CONNECTION DIAGRAM	CG67F-371	

NO EXCEPTION TAKEN MAKE CONNECTIONS NOTED
 REJECTED REVISE AND RESUBMIT
 CHECKED BY: [Signature] DATE: 11/27/73
 APPROVED BY: [Signature] DATE: 11/27/73
 Notes:
 Westinghouse Electric Corporation
 General Control Division - CHICAGO PLANT
 CAMPBELL CREEK PUMP STATION
 Gen. Order No. PX-46966 Item No. 24
 TYPE W- CONTROL CENTER CONNECTION DIAGRAM CG67F-371
 Revised, 11/27/73 BY: [Signature]
 Westinghouse Electric & Nuclear, Inc.

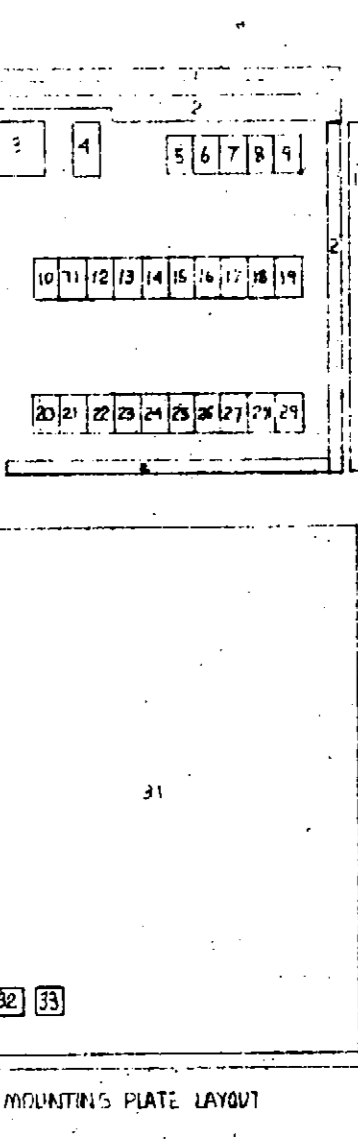
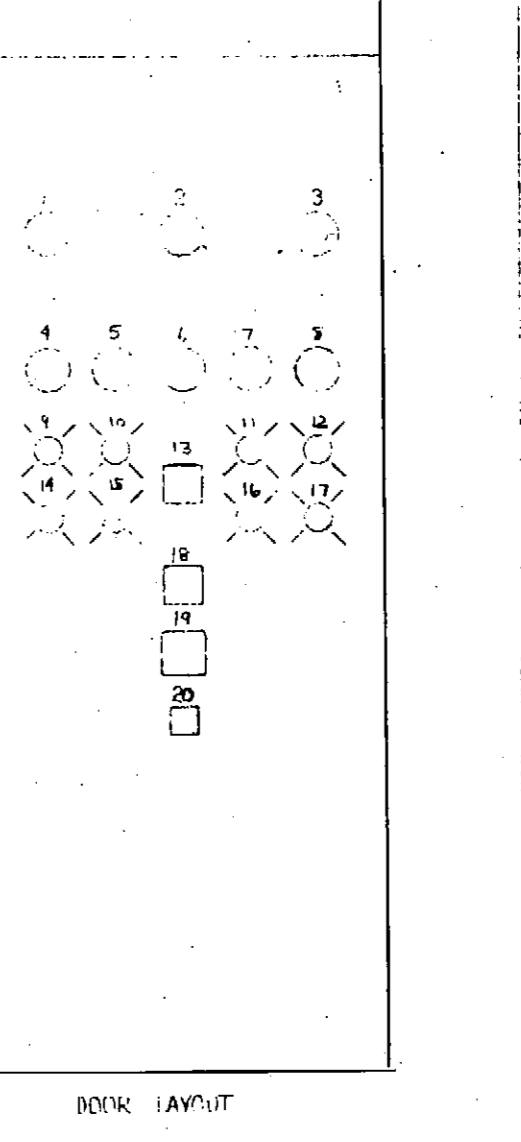
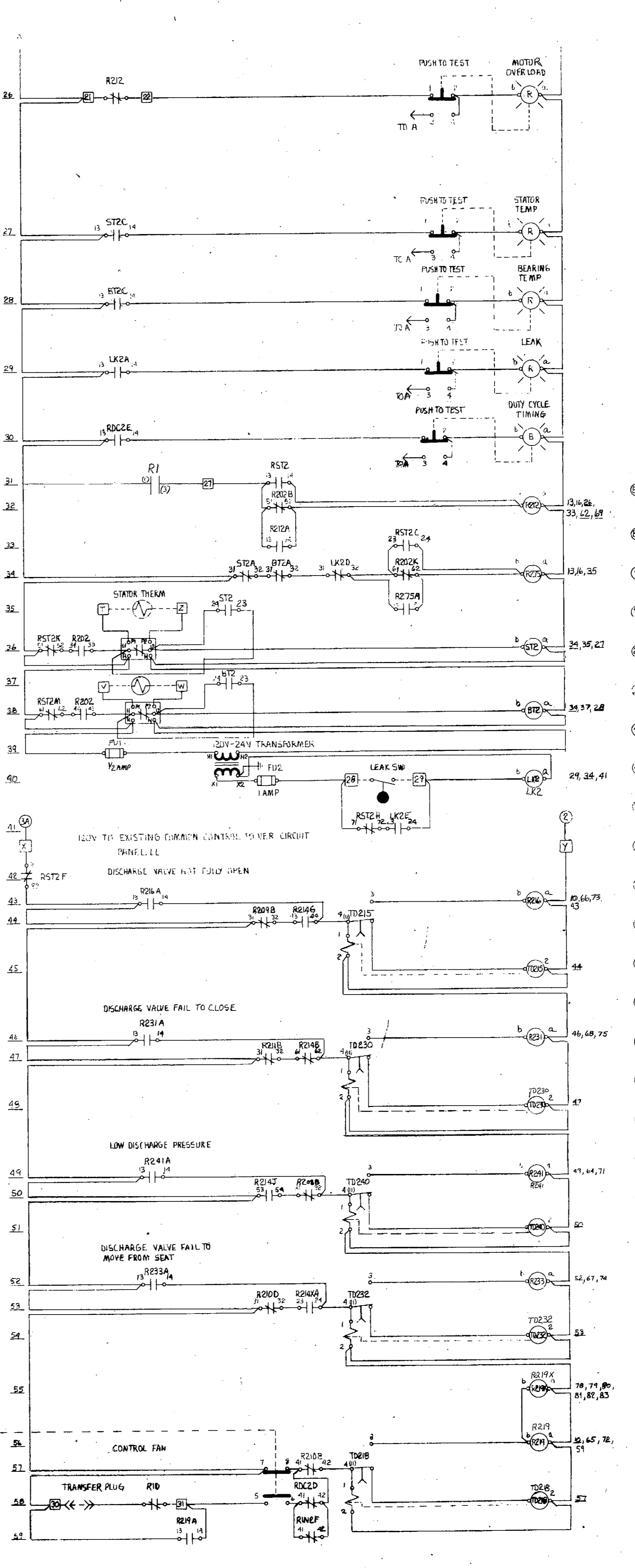
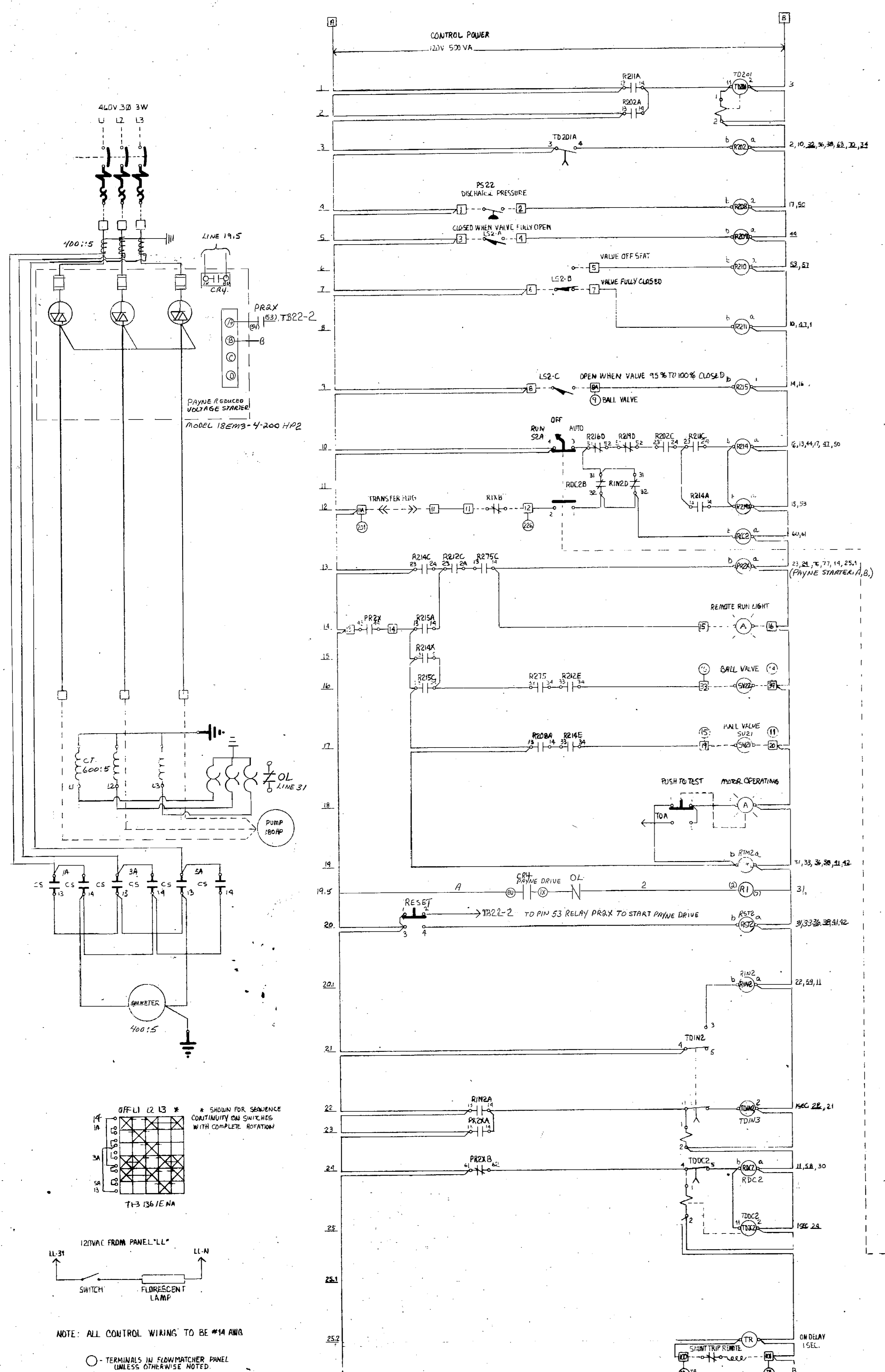
PLAN SET No. 4033 11874



NO EXCEPTION TAKEN ✓
 SELECTED □
 SUGGEST SPECIFIED ITEM □
 CHANGES IS ON V. FOR GENERAL CONCURRENCE WITH THE DESIGN
 ENGINEER'S SIGNATURE AND DATE REQUIRED FOR ALL CHANGES. ALL ACTION
 SPECIFICATIONS, DRAWINGS, AND NOTES SHALL BE REVISIONED WITH
 THE SIGNATURE AND DATE OF THE ENGINEER. THE SIGNATURE OF THE
 ENGINEER SHALL BE IN FULL VIEW OF THE FABRICATOR AND SHALL
 BE IN FULL VIEW OF THE FABRICATOR AND SHALL BE IN FULL VIEW OF
 THE FABRICATOR AND SHALL BE IN FULL VIEW OF THE FABRICATOR.
 DATE: 11/13/73
 WESTINGHOUSE ELECTRIC CORPORATION

Westinghouse Electric Corporation		TITLE: CAMPBELL CREEK PUMP STATION	
DIMENSIONS IN INCHES - SCALE		SCHEMATIC DIAG.	
DATE: J.P. MACK	APPD:	CG-67F015	
DIV & PLANT LOCATION	APPD:	U.S.A.	

NO PC-45-465
 11/13/73
 11/13/73
 11/13/73



- LEGEND FOR WIRING PLATE
1. Terminal
 2. Wiring Trough
 3. 20V 24V Fuse block
 4. R202
 5. R210
 6. R211
 7. R212
 8. R213
 9. R214
 10. R214x
 11. R215
 12. R215x
 13. R216
 14. R217
 15. R218
 16. R219
 17. R220
 18. R221
 19. R222
 20. R223
 21. R224
 22. R225
 23. R226
 24. R227
 25. R228
 26. R229
 27. R230
 28. R231
 29. R232
 30. R233
 31. R234
 32. R235
 33. R236
 34. R237
 35. R238
 36. R239
 37. R240
 38. R241
 39. R242
 40. R243
 41. R244
 42. R245
 43. R246
 44. R247
 45. R248
 46. R249
 47. R250
 48. R251
 49. R252
 50. R253
 51. R254
 52. R255
 53. R256
 54. R257
 55. R258
 56. R259
 57. R260
 58. R261
 59. R262
 60. R263

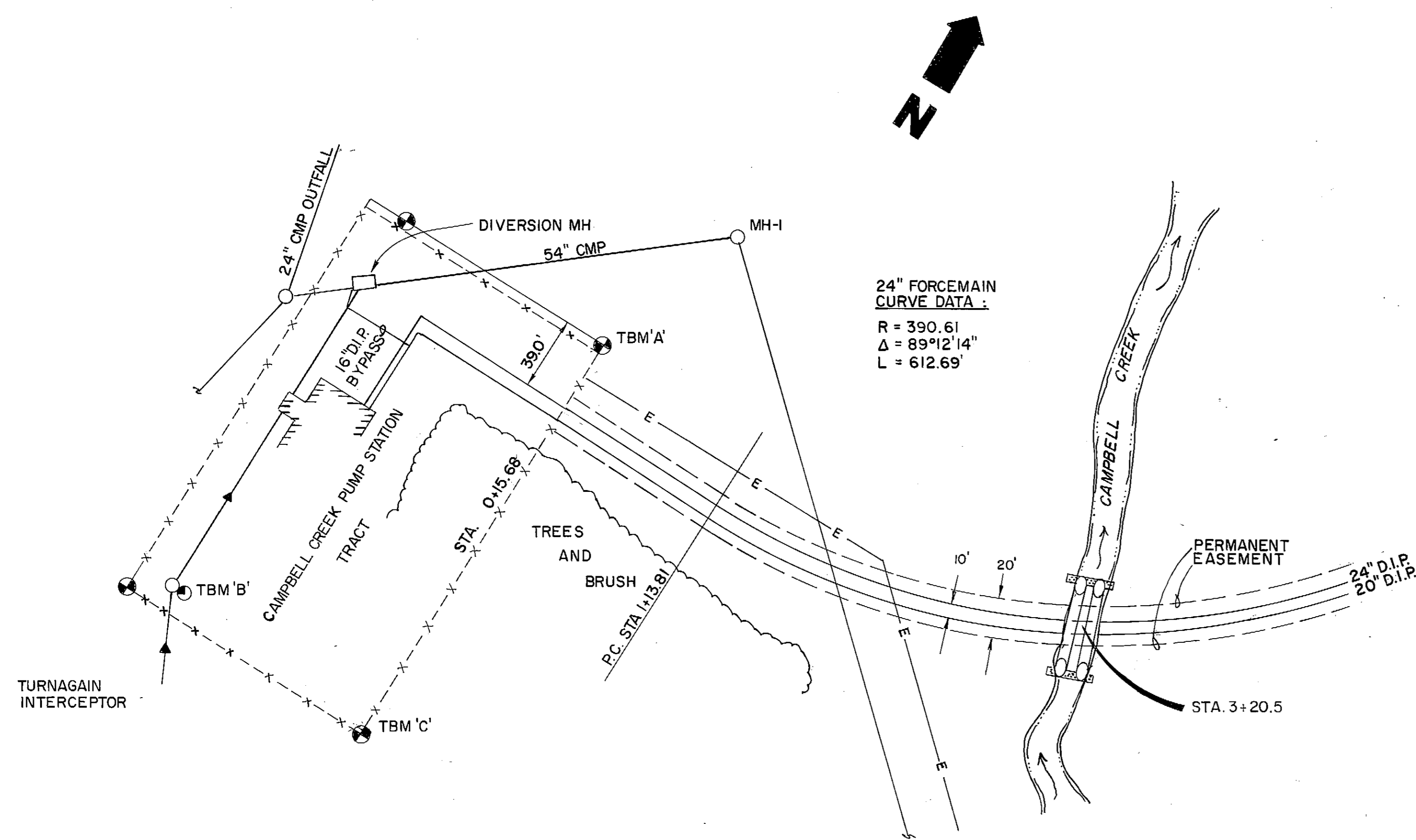
- LEGEND FOR DOOR
1. T1201
 2. T1202
 3. T1203
 4. T1204
 5. T1205
 6. T1206
 7. T1207
 8. T1208
 9. T1209
 10. T1210
 11. T1211
 12. T1212
 13. T1213
 14. T1214
 15. T1215
 16. T1216
 17. T1217
 18. T1218
 19. T1219
 20. T1220
 21. T1221
 22. T1222
 23. T1223
 24. T1224
 25. T1225
 26. T1226
 27. T1227
 28. T1228
 29. T1229
 30. T1230

QTY.	DESCRIPTION	TERMINAL NO. S	MINOR	515-80 DV
9	INTERCONNECT TERMINALS, MIMO	4-22	34	4-22
P	TERMINAL NO. S, MINOR	4-22	34	4-22
E	MOTOR	2-4	40	2-4
D	ARMED VECTROL WIRING	2-4	40	2-4
R	ARMED VECTROL WIRING MINOR	2-4	40	2-4
S	ARMED CUSTOMER CHANGES	2-4	40	2-4
A	ARMED CONTROL WIRING	2-4	40	2-4

FLYGT
PUMP 2
REVISED 10-31-85 J.Robb
INSULATED PAYNE STARTER

DATE: 1-10-74
DRAWN BY: J.Robb

KLOPPER-MOELLER
SAN FRANCISCO

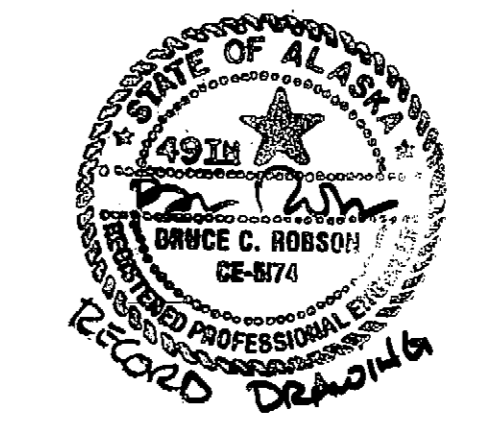
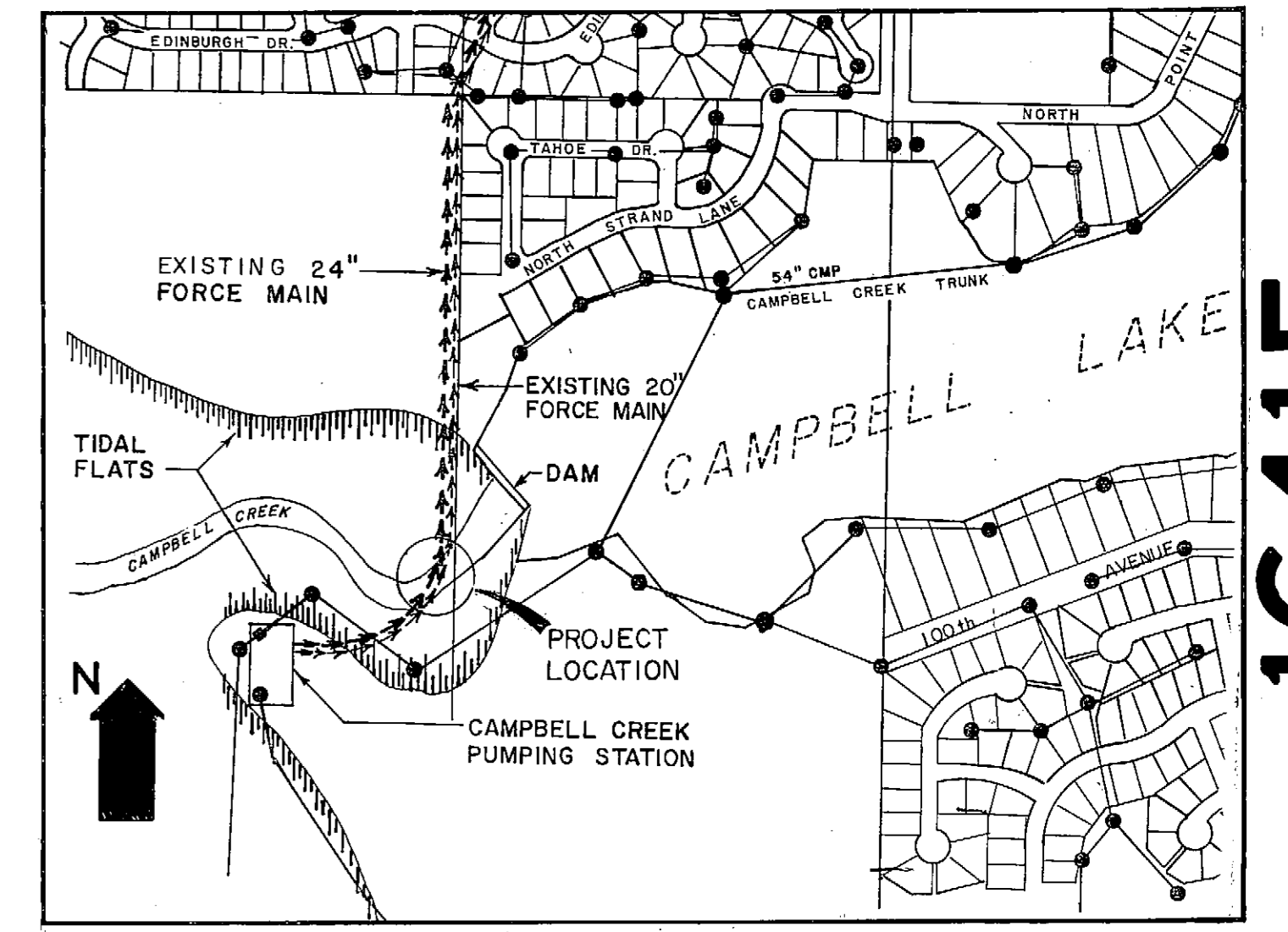


LEGEND

PROPOSED	EXISTING	
→→→→	→→→→	SANITARY SEWER FORCE MAIN
—S—	—S—	SANITARY SEWER GRAVITY FLOW
○	○	SANITARY SEWER MANHOLE
—○—	—○—	CULVERT
—X—X—X—X—X—X—	—X—X—X—X—X—X—	DITCH
—E—	—E—	UNDERGROUND ELECTRIC
⊙	⊙	MONUMENT
---	---	PROPERTY LINE
---	---	CENTERLINE
---	---	PERMANENT EASEMENT
---	---	FENCE

CALL BEFORE DIGGING
 The contractor shall notify all area utility companies prior to commencement of excavation. The following is a partial list:

Anchorage Telephone Utility.....	564-1555
Anchorage Water & Wastewater Utility.....	564-2762
Butler Aviation Pipeline.....	243-4322
Chugach Electric Association.....	562-2278
Enstar Natural Gas Company.....	264-3740
Military Petroleum Lines Fuel.....	862-4112
Municipal Street Lights & Storm Drains.....	786-8277
Tesoro Alaska Pipeline.....	561-5089



RECORD DRAWING

1. INFORMATION OBTAINED FROM: CONTRACTOR PROVIDED RED-LINES

2. CONTRACTOR: SEACOAST CONST

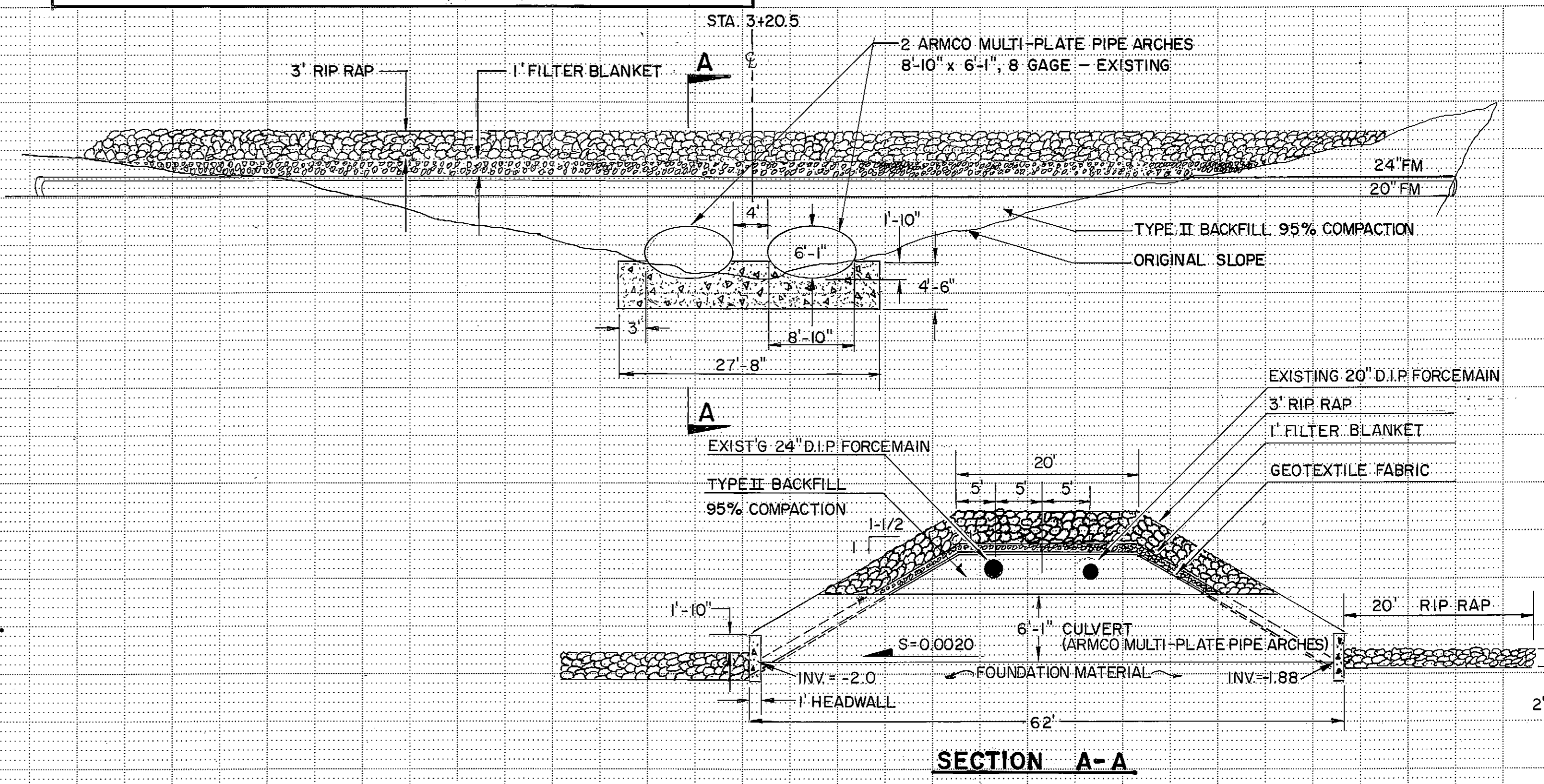
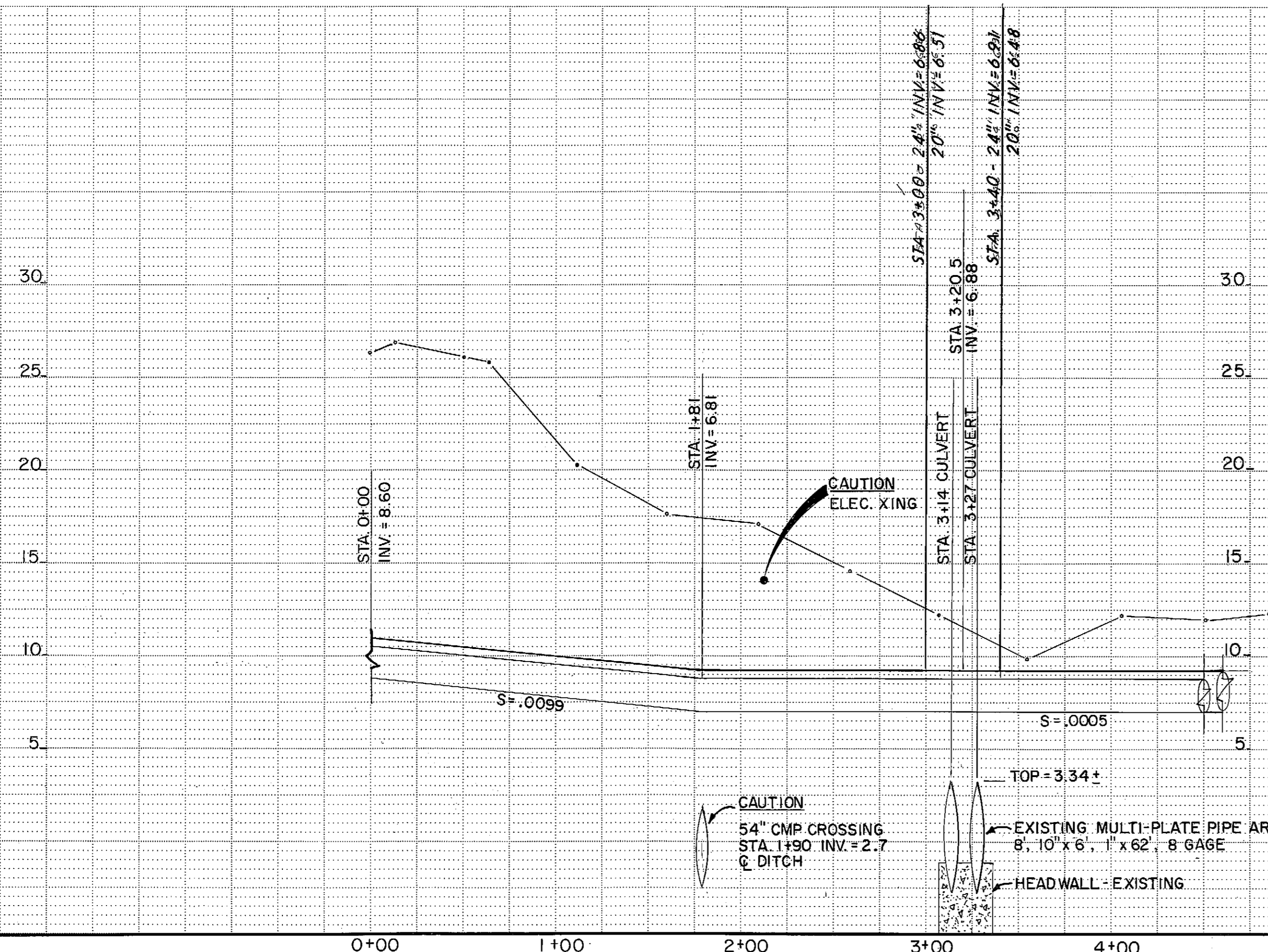
3. CONSTRUCTION PERIOD: 10/89-11/89

3. DRAWING REVISIONS BY: E.G.J.

4. CHECKED BY: DATE: 2 JAN 91

- GENERAL NOTES:**
- AT A MINIMUM, ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE 1984 MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS FOR STREETS-DRAINAGE-UTILITIES-PARKS, AND THE ANCHORAGE WATER & WASTEWATER UTILITY'S 1985 DESIGN CRITERIA FOR SANITARY SEWER AND WATER IMPROVEMENTS.
 - CONTRACTOR SHALL CALL FOR UTILITY LOCATES PRIOR TO COMMENCEMENT OF ANY EXCAVATION.
 - ALL DISTANCES ARE HORIZONTAL.
 - CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL ENCOUNTERED UTILITIES IN THE FIELD, AND RECORD CHANGES ON CONTRACTOR'S AS-BUILT PLANS. CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH AS-BUILT PLANS.
 - ALL ELEVATIONS ARE BASED ON N.G.S. 1972 ADJUSTMENT.

COORDINATED THROUGH:
 WALLACE N. CORY, P.E.
 MANAGER, ENGINEERING & PLANNING DIVISION
 ANCHORAGE WATER & WASTEWATER UTILITY
 401 WEST INTERNATIONAL AIRPORT ROAD
 ANCHORAGE, ALASKA 99518-1195
 (907) 564-2779

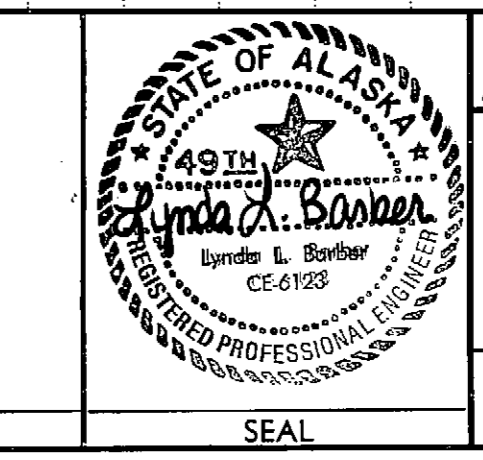
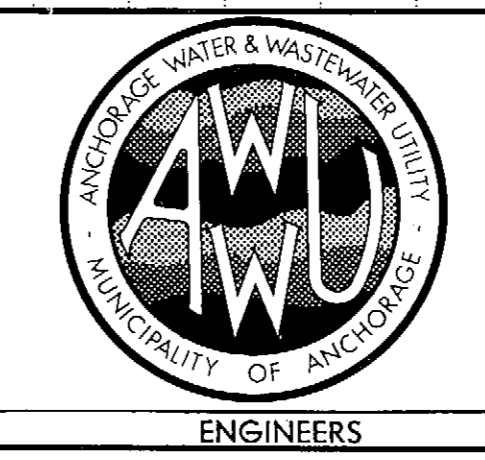


EXISTING CAMPBELL CREEK CROSSING R&R DETAILS

DESIGN	STAKING	AS-BUILT	CONTRACTOR	INSPECTOR	FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	BASE	DATA	OWN	CD	DATE	TELE	DATA	OWN	CD	DATE
										A	TOP BC. N.E. COR. OF CAMPBELL CREEK PUMP STA. TRACT.	19.53	C	B.C. AT S.E. COR. OF CAMPBELL CREEK PUMP STA. TRACT.	34.95										
										B	N. RIM M.H. STA. -1+30.40	22.80													

GRAPHIC SCALE

CONSTRUCTION RECORD



MUNICIPALITY OF ANCHORAGE
 ANCHORAGE WATER & WASTEWATER UTILITY

CAMPBELL CREEK FORCE MAIN RESTORATION AT CREEK CROSSING

NOTES, VICINITY MAP, & STANDARD DETAILS

SCALE: HOR. 1"=50' DATE: 10/89 SDN SHEET 1 of 1
 VER. 1"=5' CITY 2525 SEWER 5331

AW.W.U. WO.# 9389-4080-0016

16415

PLAN SET No. 4999

RECORD DRAWING DECEMBER '09 DESIGNED: BDM DRAWN: MMC CHECKED: JCN MMH JOB: 1851068.030102

SECONDARY SCADA PANEL

FIELD WIRING

AWWU PLAN SET NO. 8522



PUMP MOTOR NO. 2
HIGH TEMPERATURE
UPPER BEARING
WINDING
LOWER BEARING

PUMP NO. 2 UPPER
BEARING TEMP

PUMP NO. 2 LOWER
BEARING TEMP

REVISED FOR PUMP 2 AND
PUMP 3 REPLACEMENT.
PROJECT 6139

PUMP STATION 12

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____
BY: _____ TITLE: _____
DATE: _____

2. DATA TRANSFERRED BY: _____
COMPANY: _____
DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
DATA TRANSFER CHECKED BY: _____
COMPANY: _____
BY: _____ TITLE: _____
DATE: _____

REUSE OF DOCUMENTS

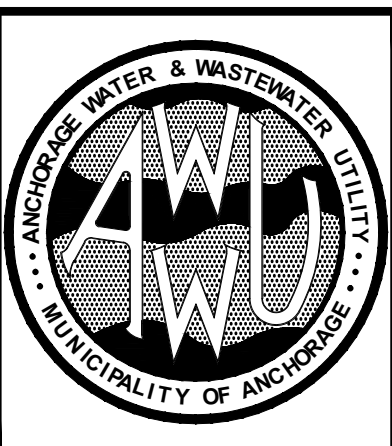
THIS DOCUMENT AND THE IDEAS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF AWWU AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF AWWU.

Anchorage
Alaska

MWH

CONSULTANT

SEAL



**MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY**

WASTEWATER COLLECTION FACILITIES GROUP 2
UTILITY WIDE SCADA SYSTEM PH2B
PUMP STATION 12
PUMP 2 STATUS

SCALE: NONE DATE: DECEMBER 2009 GRID: SW2525
PSP#000000099

DRAWING

PS12
IL-13

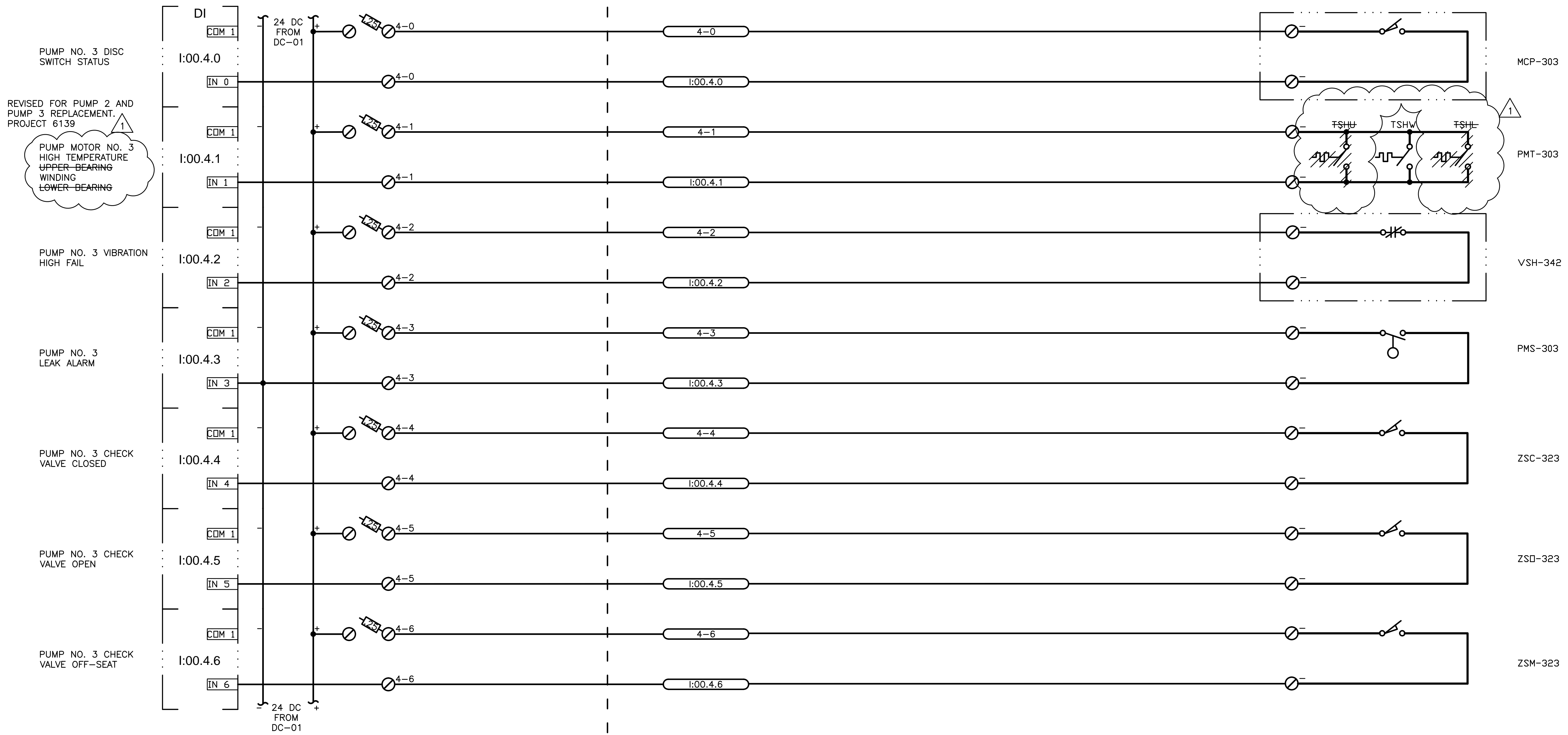
SHEET 102 OF 467

RECORD DRAWING DECEMBER '09 DESIGNED: BDM DRAWN: MMC CHECKED: JCN MMH JOB: 1851068.030102

AWWU PLAN SET NO. 8522

PUMP STATION 12

PRIMARY SCADA PANEL | FIELD WIRING



PUMP NO. 3 DISC SWITCH STATUS
 I:00.4.0
 IN 0
 COM 1

REVISOR: JCN
 REVISION: 1
 REVISION DATE: 12/15/09
 REVISION DESCRIPTION: PUMP MOTOR NO. 3 HIGH TEMPERATURE UPPER BEARING WINDING LOWER BEARING

PUMP NO. 3 VIBRATION HIGH FAIL
 I:00.4.2
 IN 2
 COM 1

PUMP NO. 3 LEAK ALARM
 I:00.4.3
 IN 3
 COM 1

PUMP NO. 3 CHECK VALVE CLOSED
 I:00.4.4
 IN 4
 COM 1

PUMP NO. 3 CHECK VALVE OPEN
 I:00.4.5
 IN 5
 COM 1

PUMP NO. 3 CHECK VALVE OFF-SEAT
 I:00.4.6
 IN 6
 COM 1

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____
 BY: _____ TITLE: _____
 DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

REUSE OF DOCUMENTS

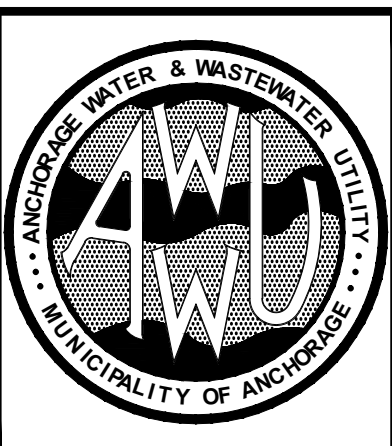
THIS DOCUMENT AND THE IDEAS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF AWWU AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF AWWU.

Anchorage Alaska

MWH

CONSULTANT

SEAL



MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

WASTEWATER COLLECTION FACILITIES GROUP 2
 UTILITY WIDE SCADA SYSTEM PH2B
 PUMP STATION 12
 PUMP 3 STATUS

SCALE: NONE | DATE: DECEMBER 2009 | GRID: SW2525
 PSP#000000099

DRAWING

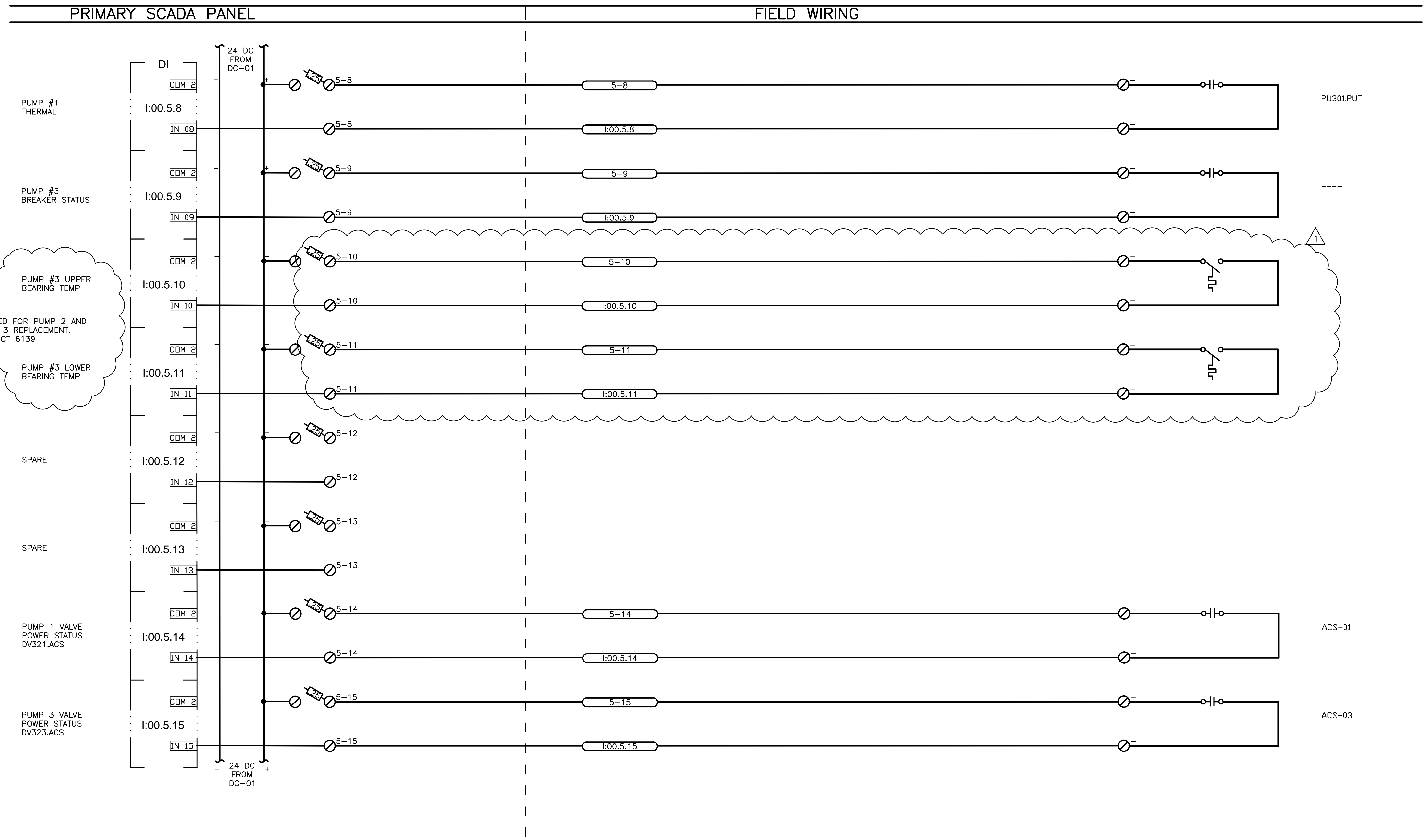
PS12
 IL-18

SHEET 107 OF 467

RECORD DRAWING DECEMBER '09 DESIGNED: BDM DRAWN: MMC CHECKED: JCN MWH JOB: 1851068.030102

AWWU PLAN SET NO. 8522

PUMP STATION 12



RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____
 BY: _____ TITLE: _____
 DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

REUSE OF DOCUMENTS

THIS DOCUMENT AND THE IDEAS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF AWWU AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF AWWU.

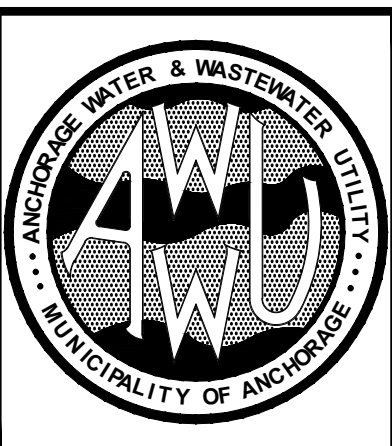
Anchorage Alaska



MWH

CONSULTANT

SEAL



MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

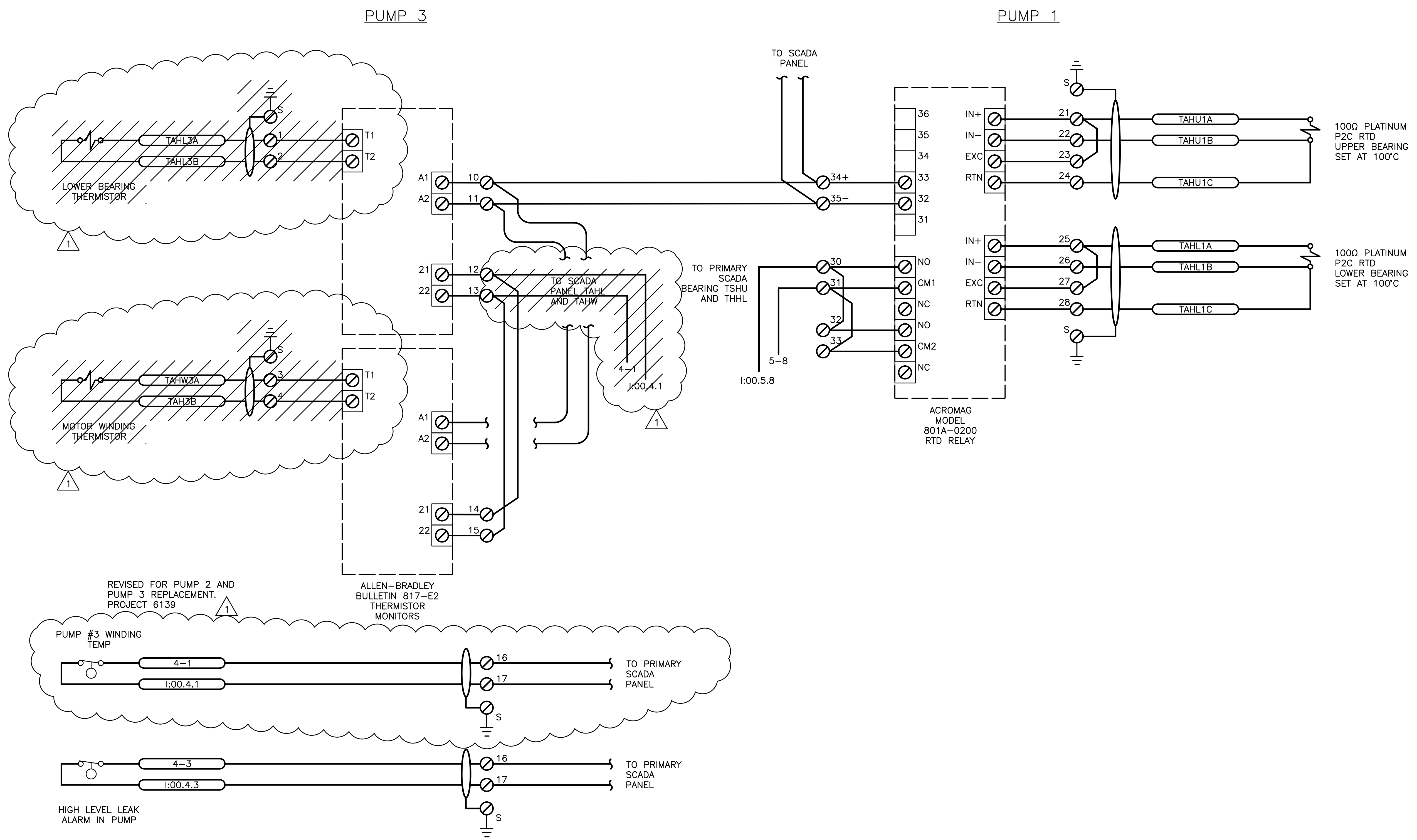
WASTEWATER COLLECTION FACILITIES GROUP 2
 UTILITY WIDE SCADA SYSTEM PH2B
 PUMP STATION 12
 PRIMARY DISCRETE INPUTS

SCALE: NONE DATE: DECEMBER 2009 GRID: SW2525
 PSP#000000099

DRAWING

PS12
 IL-20

SHEET 109 OF 467



RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____
 BY: _____ TITLE: _____
 DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

REUSE OF DOCUMENTS

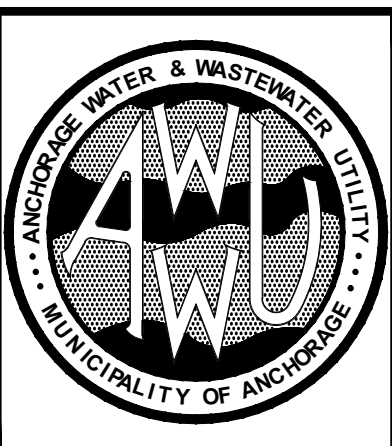
THIS DOCUMENT AND THE IDEAS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF AWWU AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF AWWU.

Anchorage
Alaska

MWH

CONSULTANT

SEAL



**MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY**

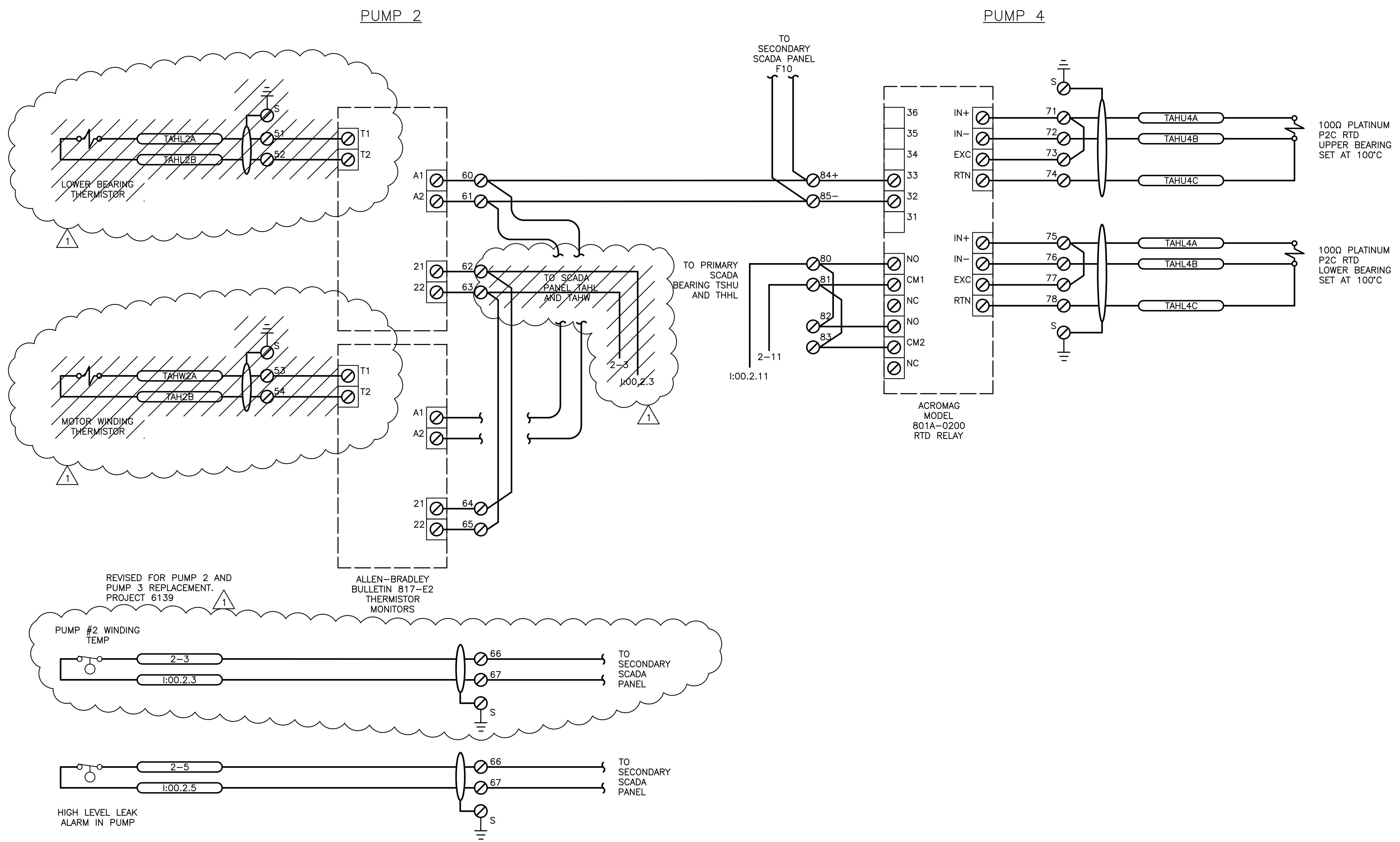
WASTEWATER COLLECTION FACILITIES GROUP 2
 UTILITY WIDE SCADA SYSTEM PH2B
 PUMP STATION 12
 PUMPS 1 AND 3 PROTECTION
 MOTOR RELAY PANEL

SCALE: NONE DATE: DECEMBER 2009 GRID: SW2525
 PSP#000000099

DRAWING

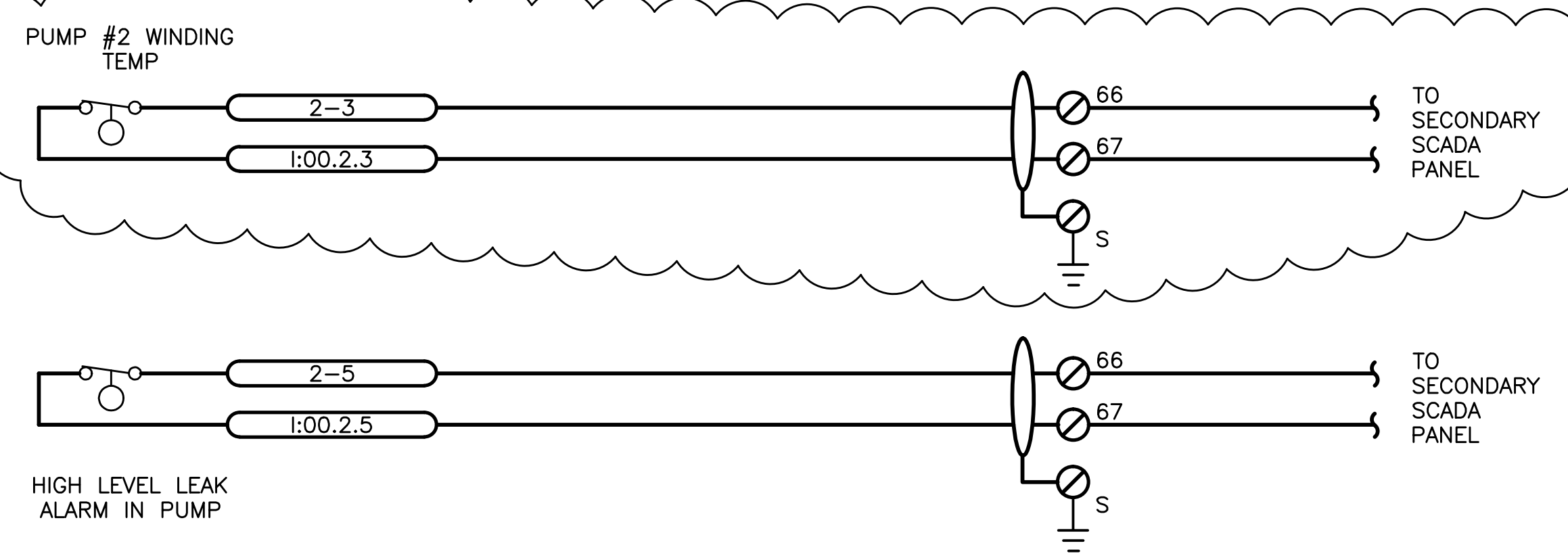
PS12
 IL-38

SHEET 127 OF 467



REVISED FOR PUMP 2 AND PUMP 3 REPLACEMENT. PROJECT 6139

ALLEN-BRADLEY BULLETIN 817-E2 THERMISTOR MONITORS



RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____
 BY: _____ TITLE: _____
 DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

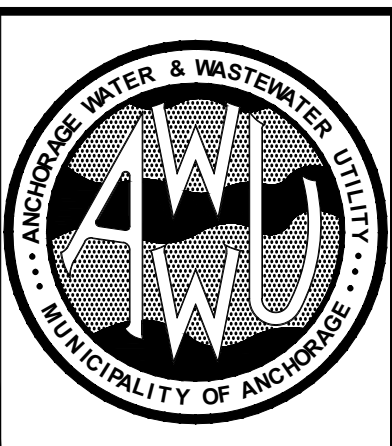
REUSE OF DOCUMENTS

THIS DOCUMENT AND THE IDEAS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF AWWU AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF AWWU.

Anchorage Alaska

CONSULTANT

SEAL



MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

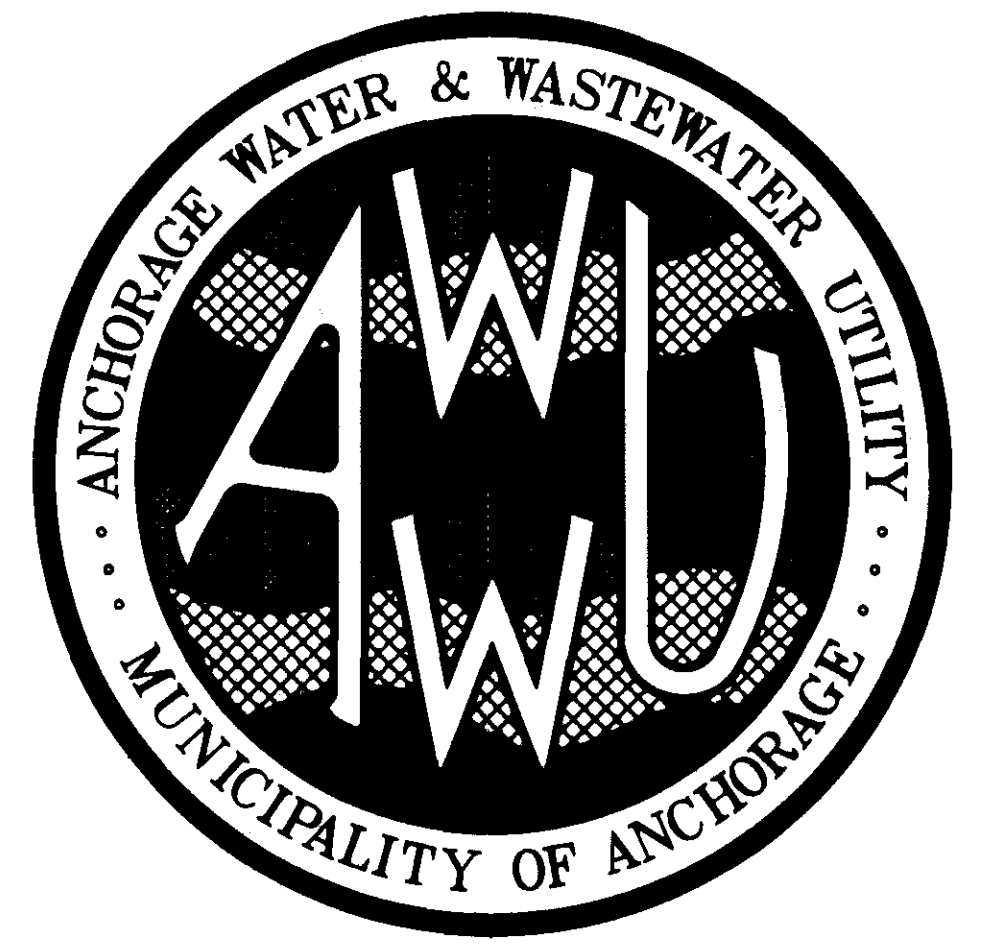
WASTEWATER COLLECTION FACILITIES GROUP 2
 UTILITY WIDE SCADA SYSTEM PH2B
 PUMP STATION 12
 PUMPS 2 AND 4 PROTECTION
 MOTOR RELAY PANEL

SCALE: NONE DATE: DECEMBER 2009 GRID: SW2525
 PSP#000000099

DRAWING

PS12
 IL-39

SHEET 128 OF 467



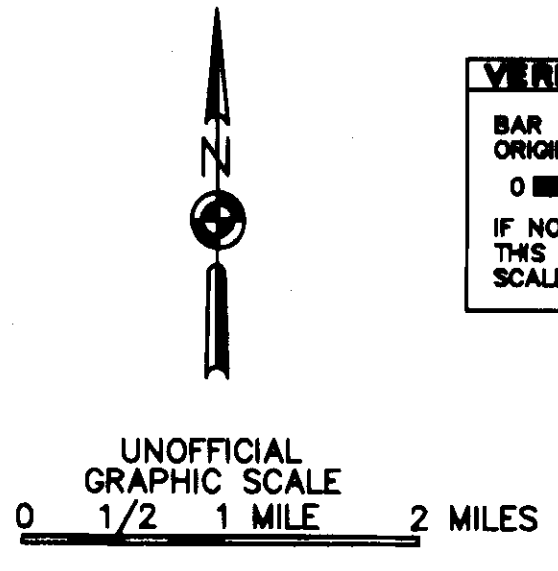
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY
PUMP STATION 12
VALVE & PUMP REPLACEMENT

PROJECT IDENTIFICATION No. 000006139
SEPT 2011

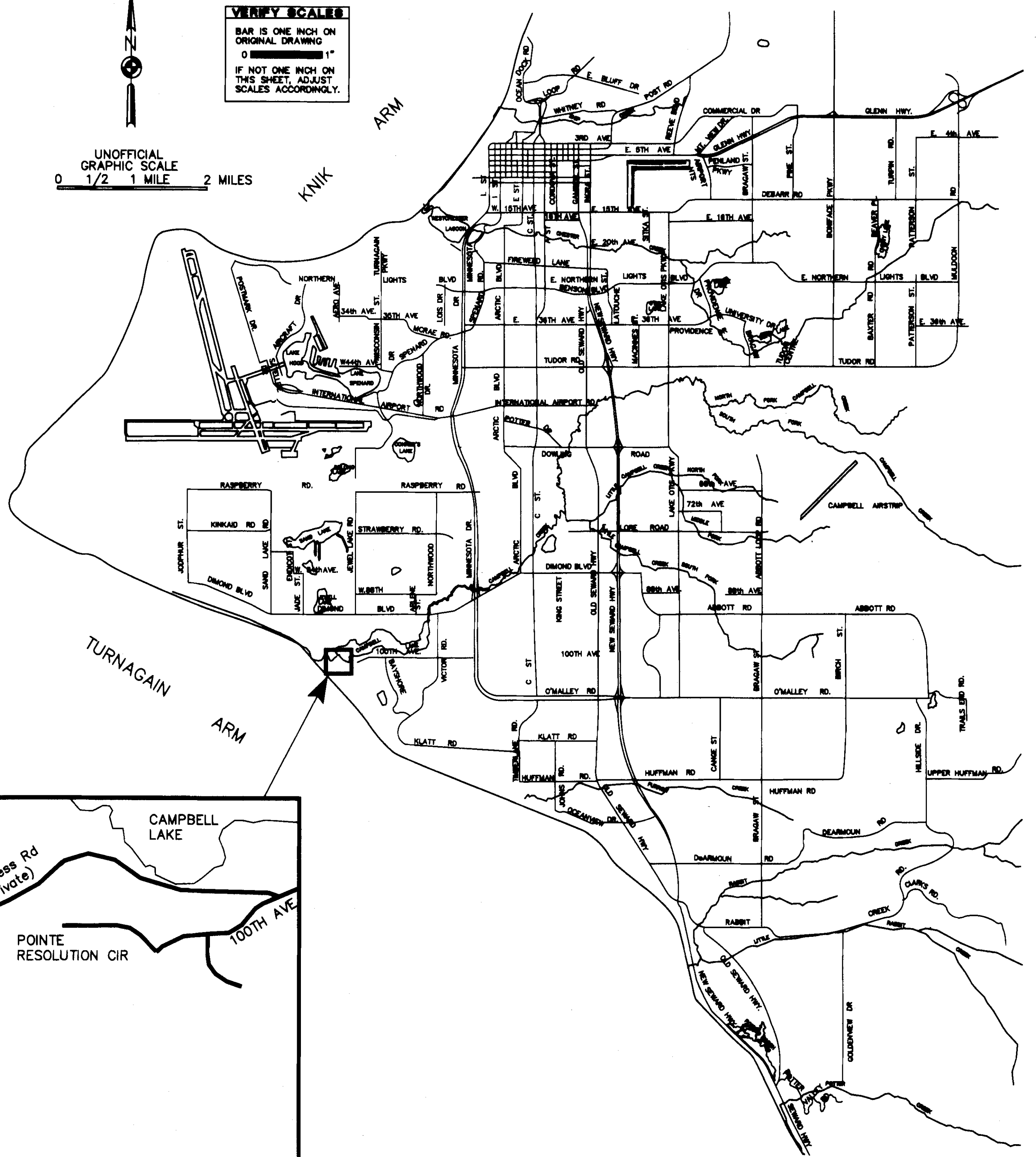


213 W. Fireweed Lane, Anchorage, AK 99503
Tel: (907) 276-7933 FAX: (907) 276-4763

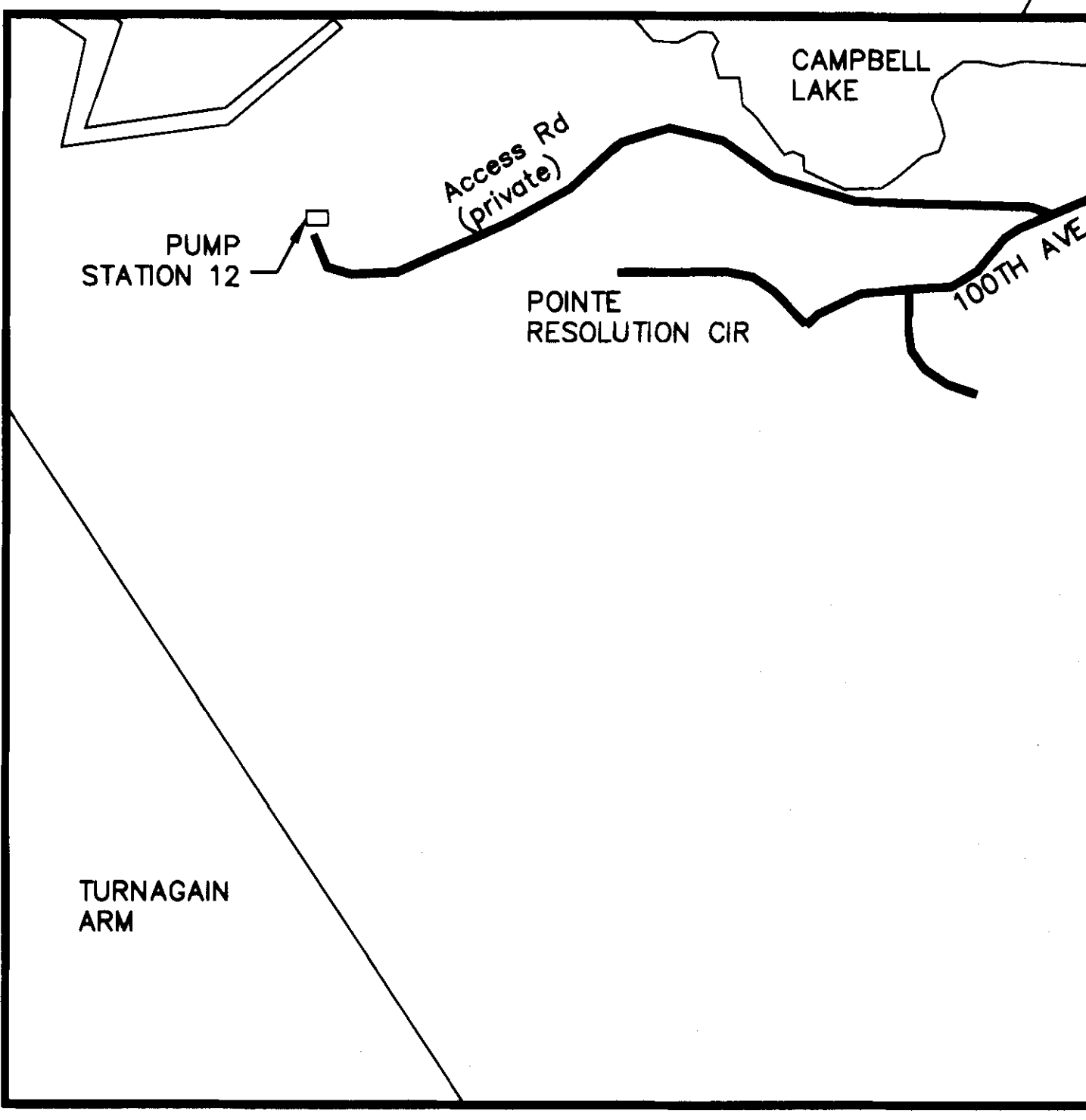
SHEET INDEX		
SHT	DWG	SUBJECT
1		COVER SHEET
2	M1.0	VALVE REPLACEMENT
3	M2.0	PUMP REPLACEMENT



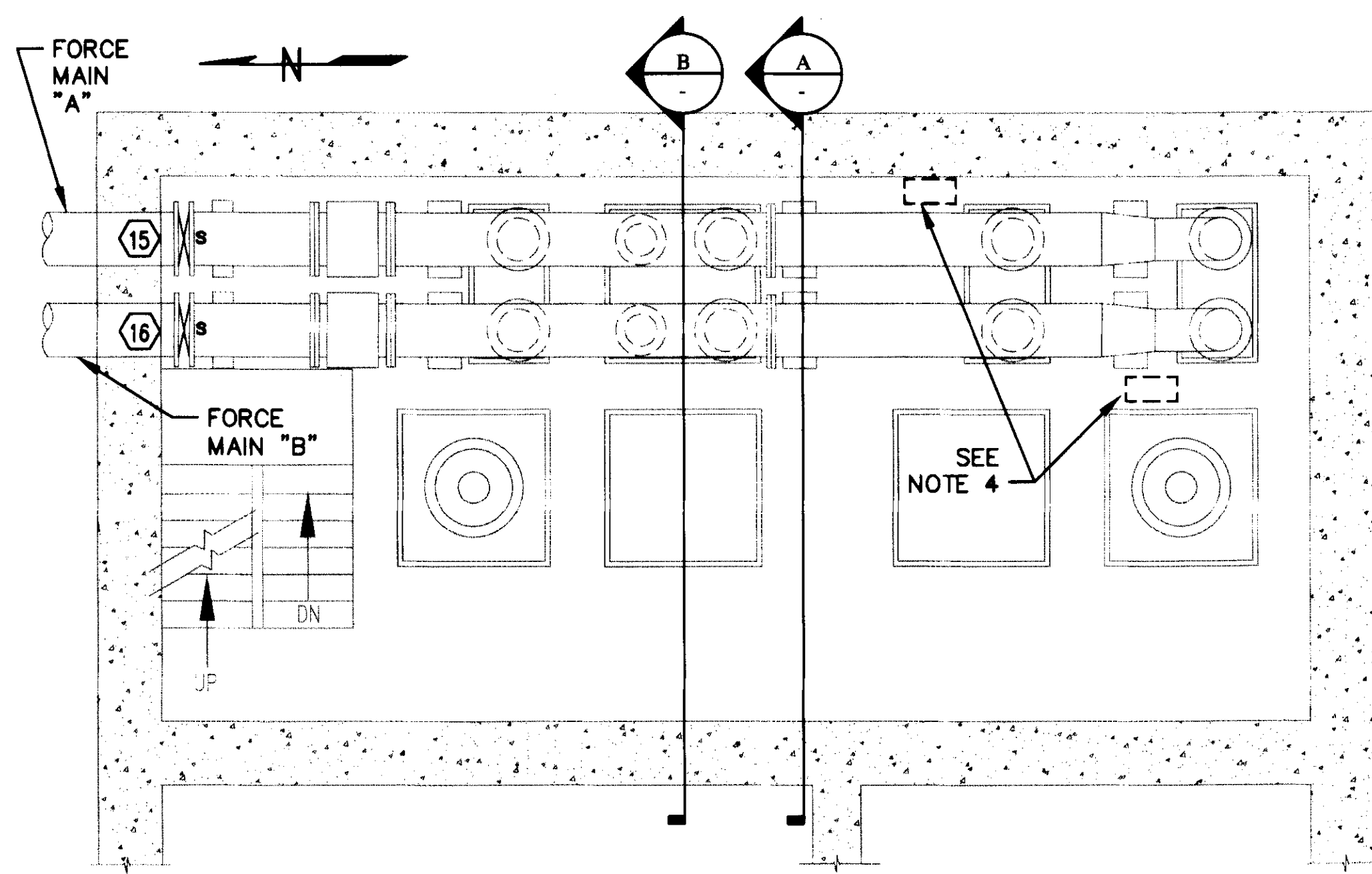
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



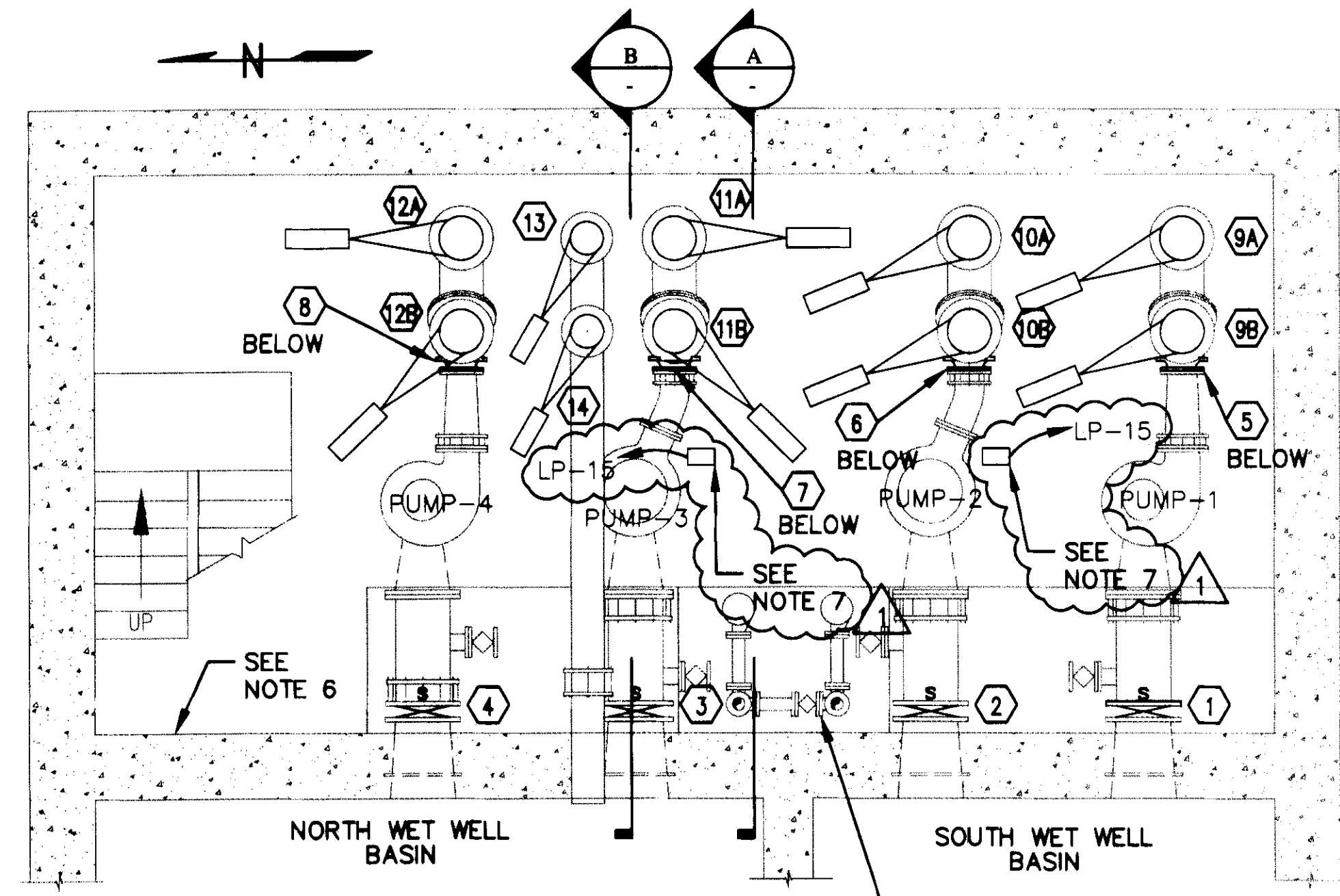
VICINITY MAP
ANCHORAGE, ALASKA



PROJECT LOCATION
NOT TO SCALE



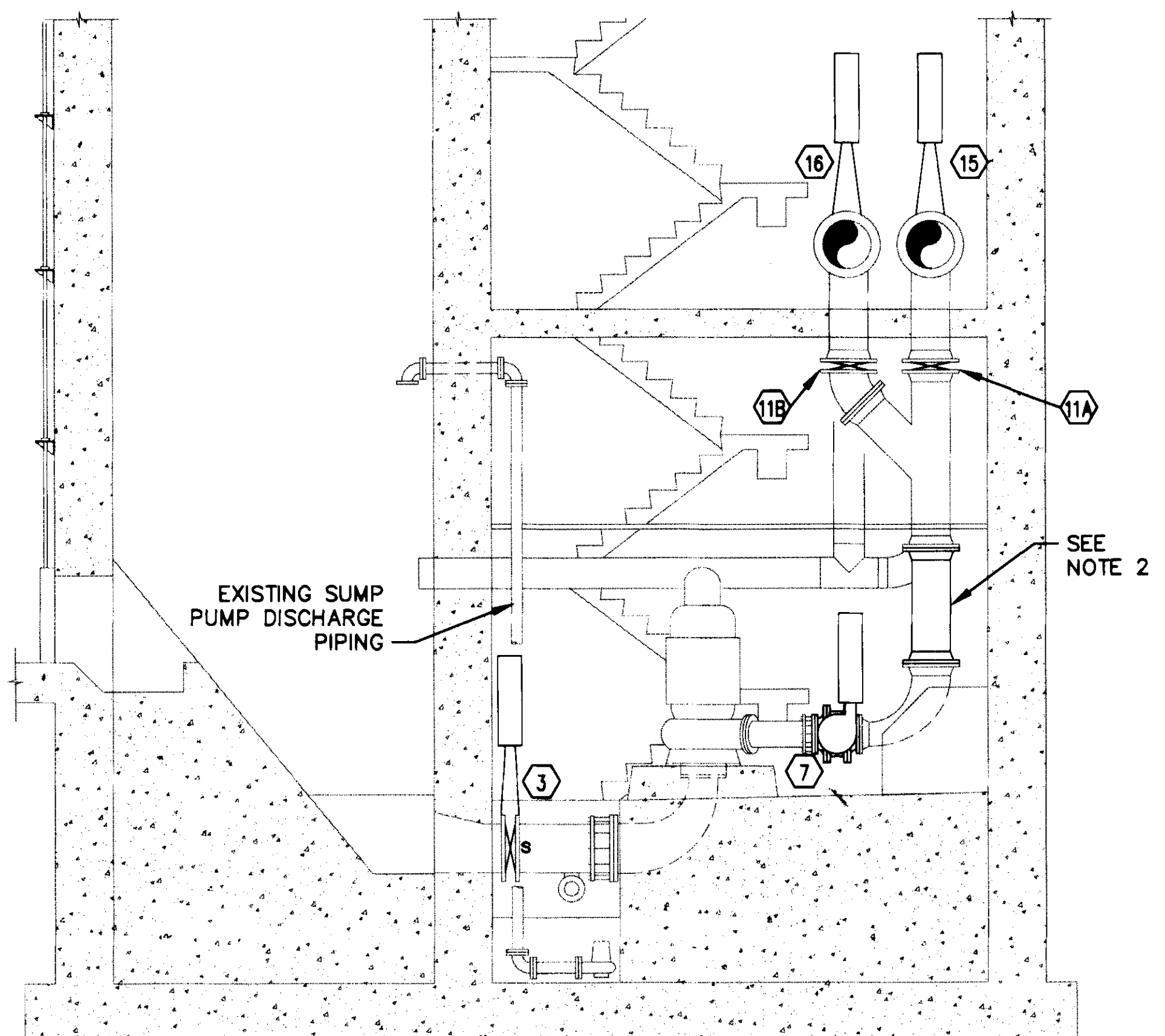
1 MOTOR FLOOR PLAN - PIPING
SCALE: 1/4" = 1'-0"



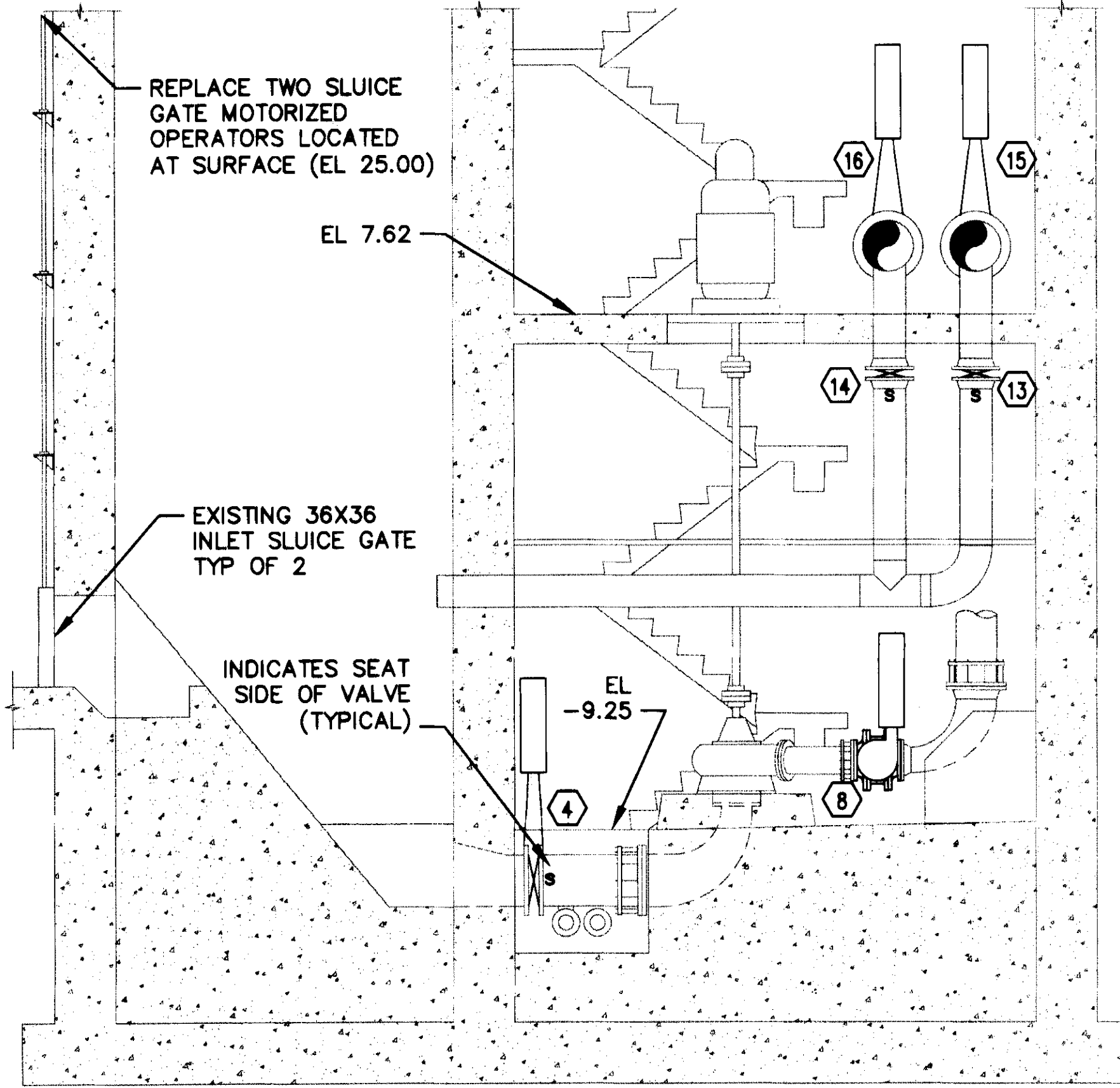
2 PUMP ROOM PLAN - PIPING
SCALE: 1/4" = 1'-0"

NOTES

1. REPLACE VALVES AND ACTUATORS PER SPECIFICATIONS AND AS SHOWN. SEE SPECIFICATIONS FOR SUGGESTED VALVE REPLACEMENT SEQUENCE. FLANGE STUDS AND NUTS IN SATISFACTORY CONDITION MAY BE REUSED.
2. REPLACE EXISTING DISCHARGE HEAT EXCHANGER ON PUMP 3 WITH NEW 16" X 48" LONG FLANGED SCHEDULE 40 PIPE SPOOL. COAT INSIDE AND OUT PER SPECIFICATION SECTION 09900.
3. ORIENT VALVE ACTUATORS AS SHOWN AND RECONNECT HYDRAULIC (WATER) ACTIVATION PIPING, AND COMPRESSED AIR PIPING AND LIMIT SWITCH WIRING FOR VALVES 5 - 8.
4. PATCH CONCRETE CEILING AT LOCATIONS SHOWN WITH GROUT TO PROVIDE SMOOTH SURFACE FOR PAINTING. (ADDITIVE ALTERNATE #1)
5. REPAINT CONCRETE SURFACES BELOW EL 7.62 INCLUDING PUMP ROOM WALLS, CEILING, FLOOR, STAIRS AND LANDINGS, PUMP PEDESTALS, PIPE SUPPORTS AND SUMP BELOW EL -9.25. REPAINT PUMP STATION PIPING FROM PUMP INLET VALVES TO FORCE MAIN VALVES AT UPPER LEVEL, INCLUDING PUMP VOLUTES AND STEEL AND CONCRETE PIPE SUPPORTS ABOVE EL 7.62. REPAINT SUMP PUMP DISCHARGE PIPING FROM PUMPS TO WET WELL WALL PENETRATIONS. REPAINT EXISTING COATED MISCELLANEOUS FERROUS METALS EXCEPT CRANES AND GALVANIZED BEAMS, RAILINGS, AND GRATING. PROTECT ANY WATER SENSITIVE EQUIPMENT SUCH AS MOTORS, LIGHTING AND ELECTRICAL EQUIPMENT FROM WATER DAMAGE. PROVIDE SUPPLEMENTAL VENTILATION IF NEEDED DURING REPAINT OPERATIONS AND PAINT CURE TIME. (ADDITIVE ALTERNATE #1)
6. PAINT BEHIND EXISTING TOOL BOARD AT BASE OF STAIRS. OWNER WILL REMOVE AND REINSTALL. (ADDITIVE ALTERNATE #1)
7. CONNECT PUMP PROTECTION PANELS ON PUMP 2 AND PUMP 3 TO LP-15



A PUMP AND PIPING SECTION (TYPICAL)
SCALE: 1/4" = 1'-0"



B PUMP AND PIPING SECTION
SCALE: 1/4" = 1'-0"

VALVE SCHEDULE & EQUIPMENT IDENTIFICATION

TAG	SERVICE	SIZE/TYPE	ASSET ID	ACTUATOR	ASSET ID	LOCATION
1	PUMP 1 INLET	20" KNIFE GATE	71958	HYDRAULIC CYLINDER	71950	38415
2	PUMP 2 INLET	20" KNIFE GATE	71959	HYDRAULIC CYLINDER	71951	38416
3	PUMP 3 INLET	20" KNIFE GATE	71960	HYDRAULIC CYLINDER	71952	38417
4	PUMP 4 INLET	20" KNIFE GATE	71961	HYDRAULIC CYLINDER	71953	38418
5	PUMP 1 CONTROL	10" BALL	71942	PNEUMATIC OVER HYDRAULIC CYL W/OPEN, CLOSE, 95% CLOSE SWITCHES	71946	38415
6	PUMP 2 CONTROL	10" BALL	71943	PNEUMATIC OVER HYDRAULIC CYL W/OPEN, CLOSE, 95% CLOSE SWITCHES	71947	38416
7	PUMP 3 CONTROL	10" BALL	71944	PNEUMATIC OVER HYDRAULIC CYL W/OPEN, CLOSE, 95% CLOSE SWITCHES	71948	38417
8	PUMP 4 CONTROL	10" BALL	71945	PNEUMATIC OVER HYDRAULIC CYL W/OPEN, CLOSE, 95% CLOSE SWITCHES	71949	38418
9A	PUMP 1 DISCHARGE	16" KNIFE GATE (DOUBLE SEATED)	71965(A)	HYDRAULIC CYLINDER	71957(A)	38415
10A	PUMP 2 DISCHARGE	16" KNIFE GATE (DOUBLE SEATED)	71964(A)	HYDRAULIC CYLINDER	71956(A)	38416
11A	PUMP 3 DISCHARGE	16" KNIFE GATE (DOUBLE SEATED)	71963(A)	HYDRAULIC CYLINDER	71955(A)	38417
12A	PUMP 4 DISCHARGE	16" KNIFE GATE (DOUBLE SEATED)	71962(A)	HYDRAULIC CYLINDER	71954(A)	38418
13	FORCE MAIN "A" DRAIN	12" KNIFE GATE	71939	HYDRAULIC CYLINDER	71935	35472
14	FORCE MAIN "B" DRAIN	12" KNIFE GATE	71940	HYDRAULIC CYLINDER	71936	35472
15	FORCE MAIN "A"	20" KNIFE GATE	71938	HYDRAULIC CYLINDER	71934	35471
16	FORCE MAIN "B"	20" KNIFE GATE	71941	HYDRAULIC CYLINDER	71937	35471

FILE: P:\PROJECTS\AWWU\PUMP STATION 12\DWG\RECORD DRAWING\M1.DWG PLOT DATE: 4/16/2013 2:35 PM

VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		0" = 1"		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.		FULL SIZE SCALE	
DATA	DATE	BY	DATE	REV	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
BASE				1	1/2013	RECORD DRAWINGS	ZSB		
TOPOGRAPHY									
PROFILE									
SANITARY SEWER									
STORM SEWER									
WATER									
GAS									

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

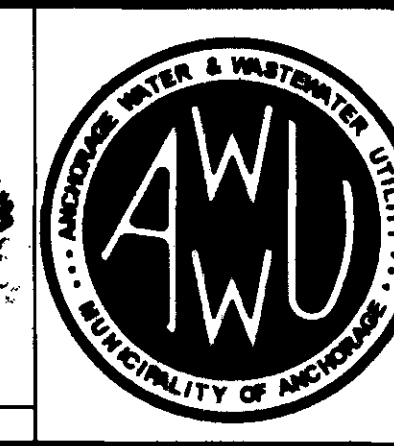
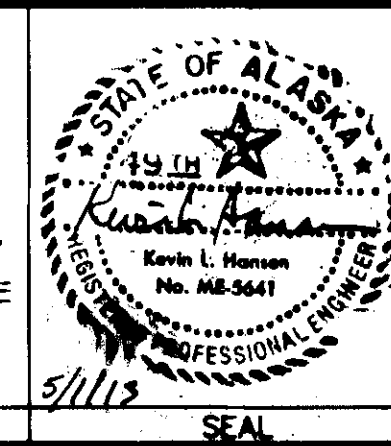
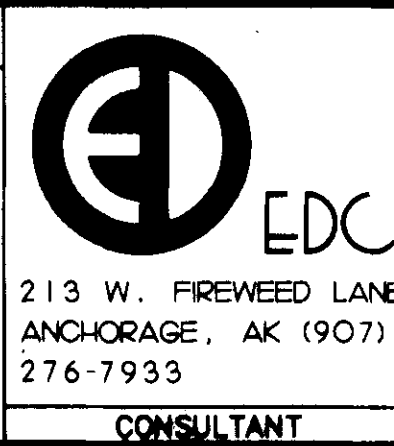
1. DATA PROVIDED BY: Eric Meeks
This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: MKB Constructors
BY: Eric Meeks TITLE: Superintendent
DATE: 4-19-2013

2. DATA TRANSFERRED BY: Z. Bolderek
COMPANY: EDC, Inc
DATE: 2/28/13

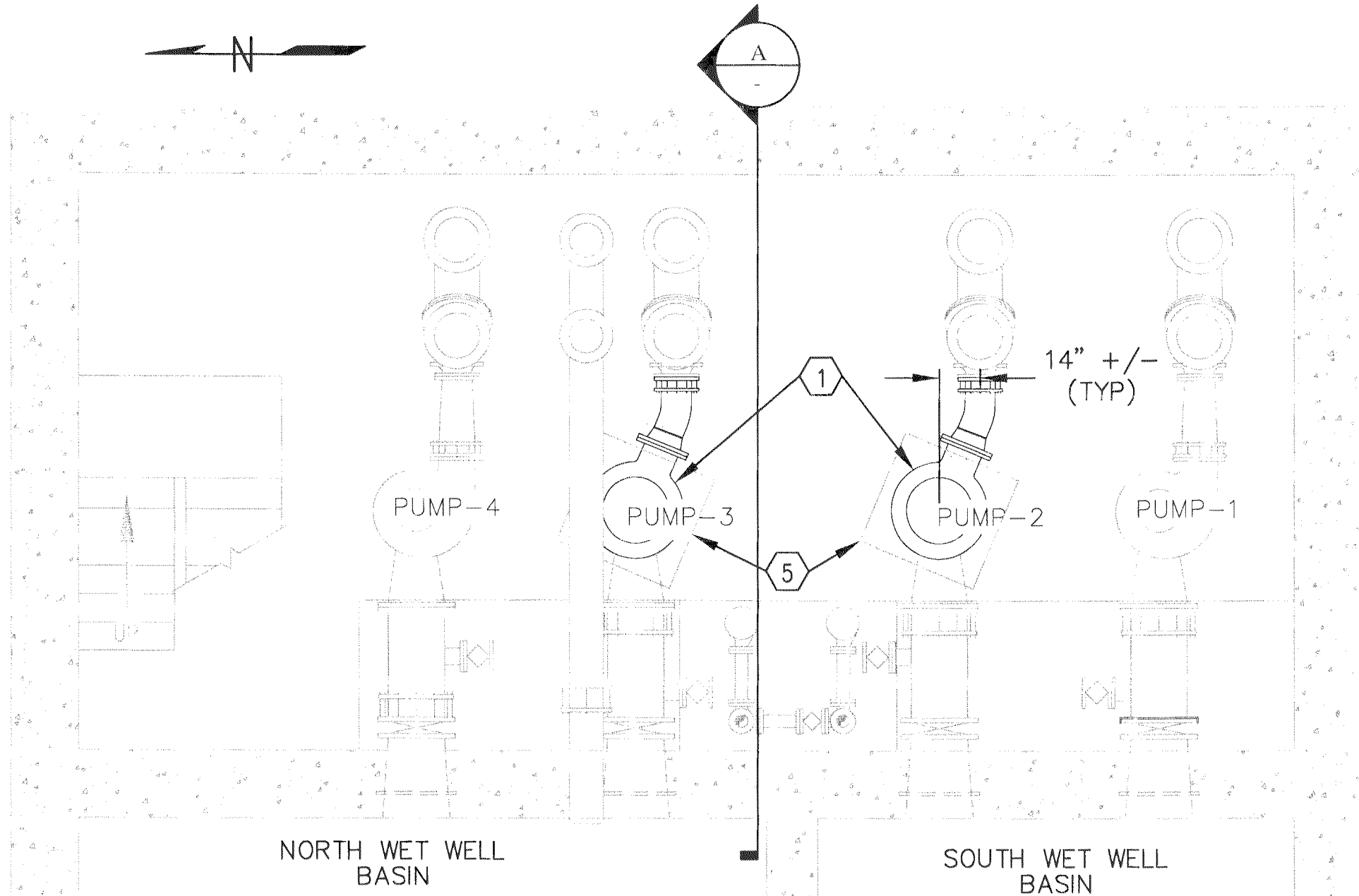
3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
DATA TRANSFER CHECKED BY: Kevin L. Hanson
COMPANY: EDC, Inc
BY: K. Hanson TITLE: Head Engineer
DATE: 4/19/13

REUSE OF DOCUMENTS

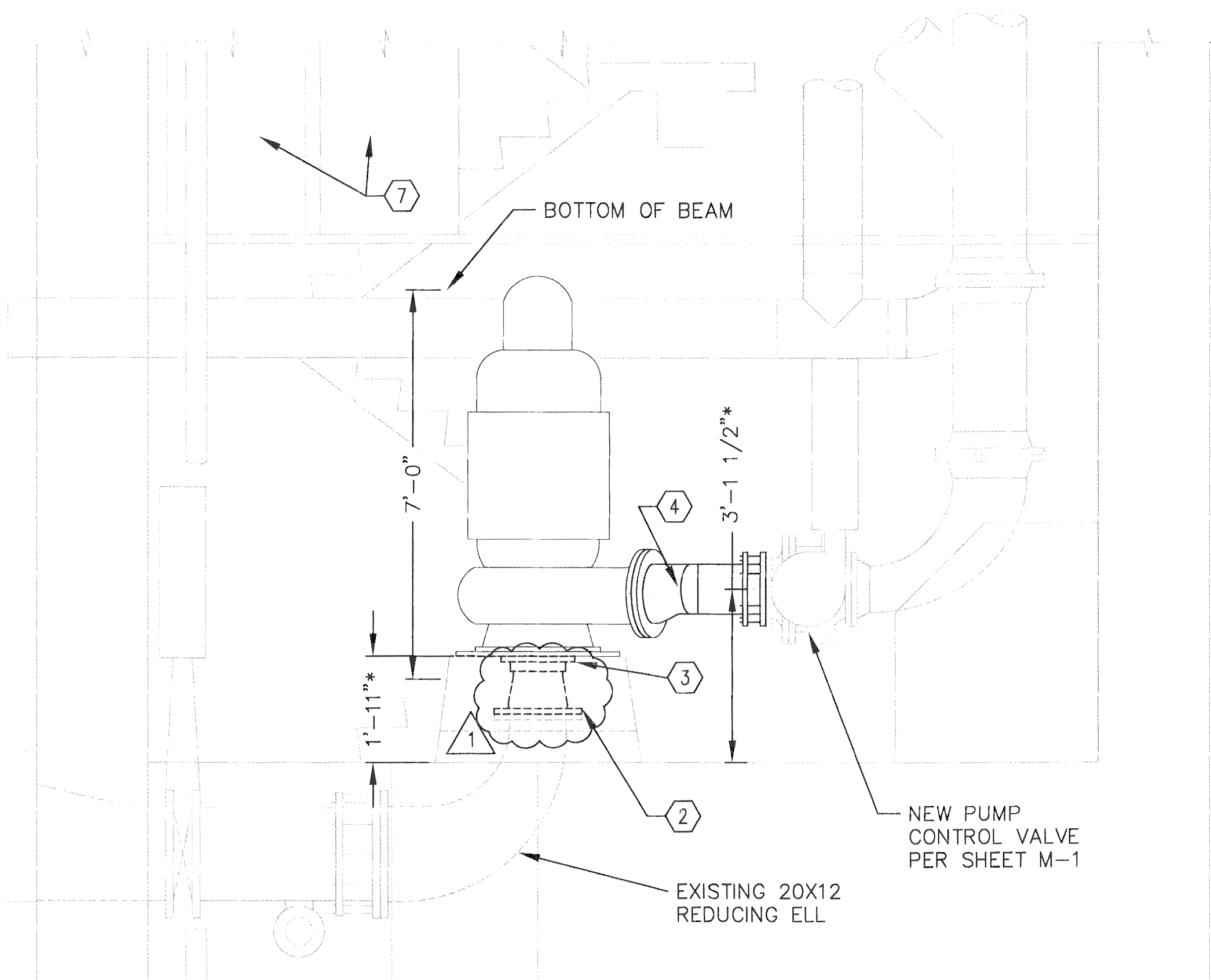
THIS DOCUMENT AND THE IDEAS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF AWWU AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF AWWU.



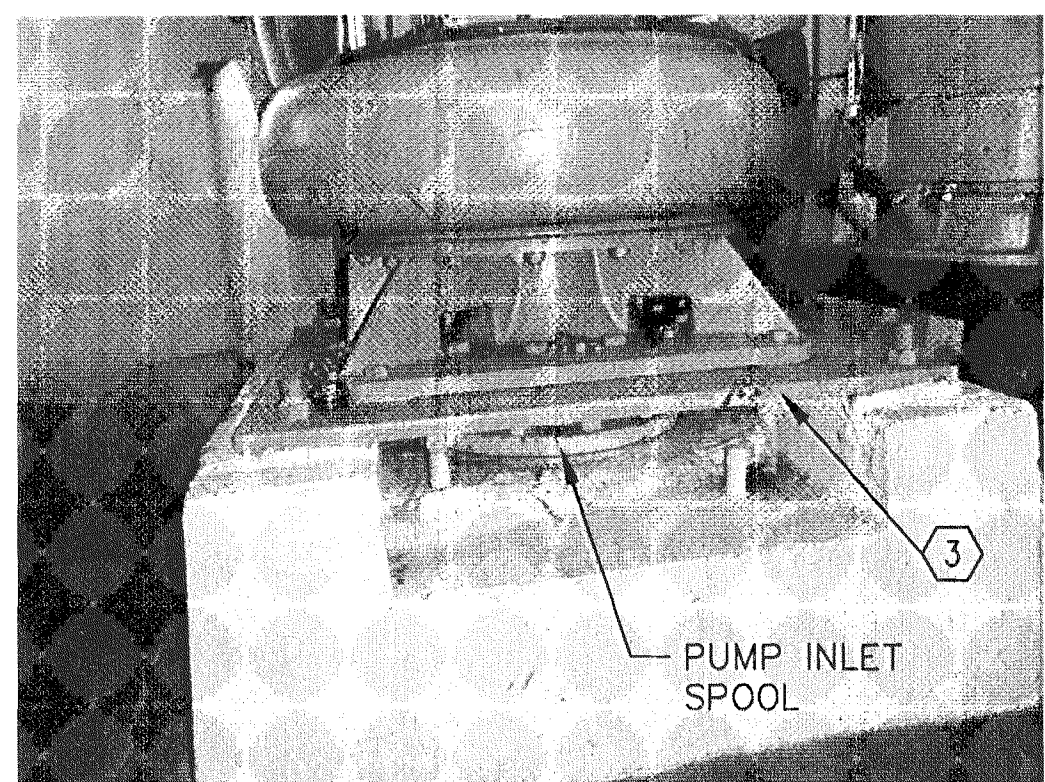
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY			DRAWING
PUMP STATION 12 VALVE & PUMP REPLACEMENT			M1
VALVE REPLACEMENT			
HORIZ SCALE: AS NOTED	DATE: 3/9/2011	GRID: SW2525	SHT 2 of 3
PROJ. ID.: 0000008139			



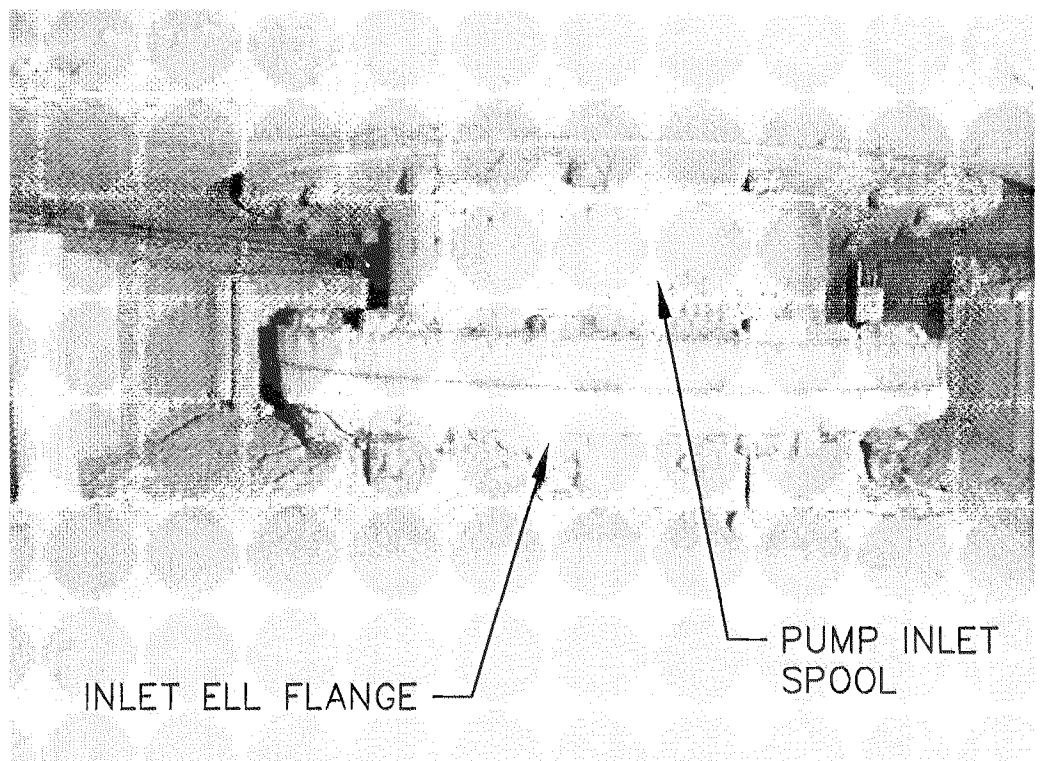
1 PUMP ROOM PLAN - PUMP REPLACEMENT
SCALE: 1/4" = 1'-0"



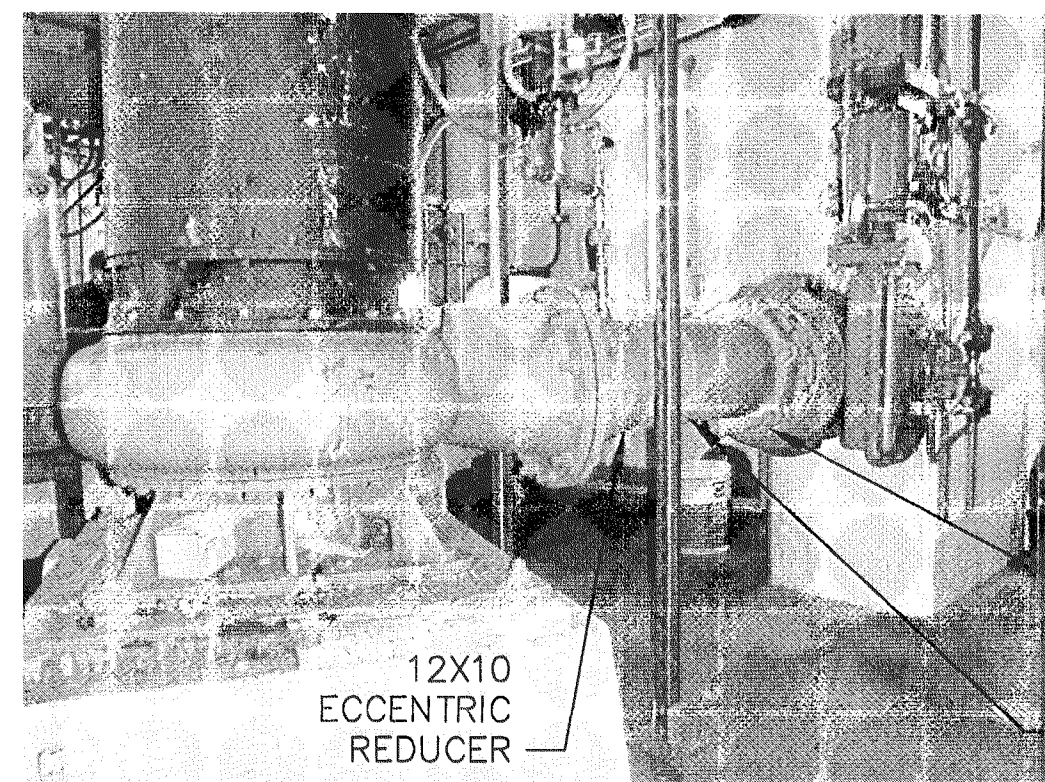
A PUMP REPLACEMENT SECTION (TYPICAL)
SCALE: 1/2" = 1'-0"



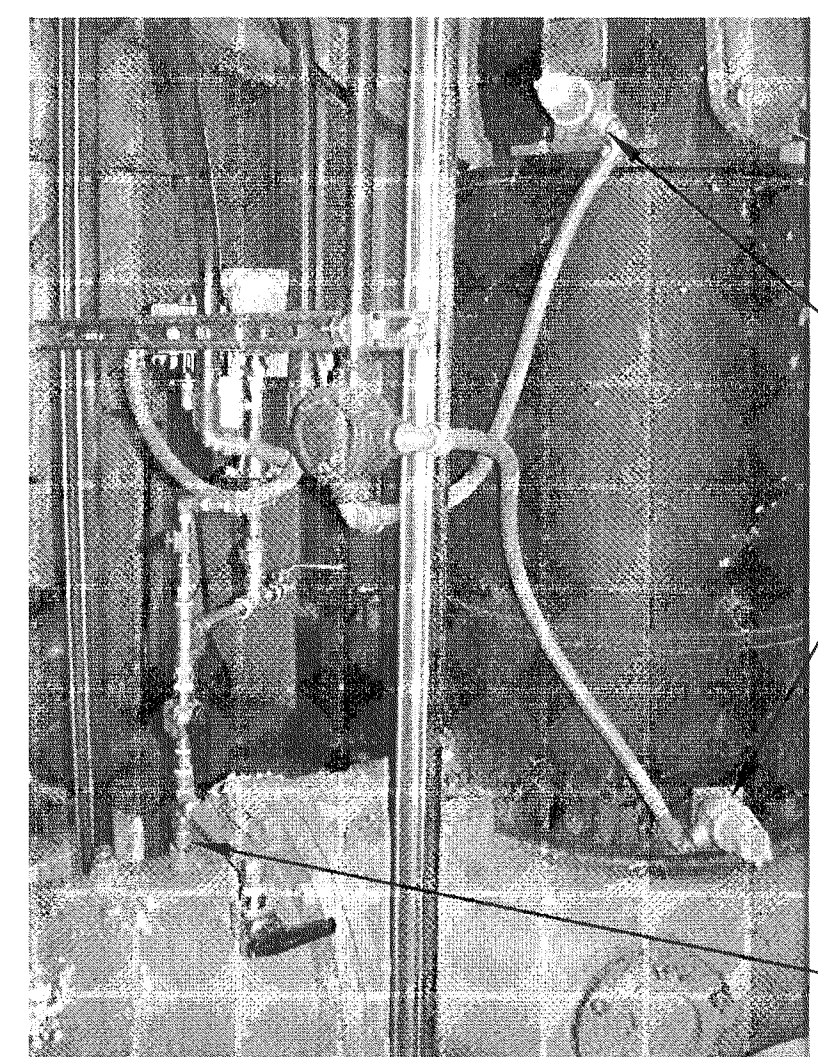
2 PUMP PEDESTAL (PUMP #3)
SCALE: NONE



3 PUMP INLET SPOOL (PUMP #2)
SCALE: NONE



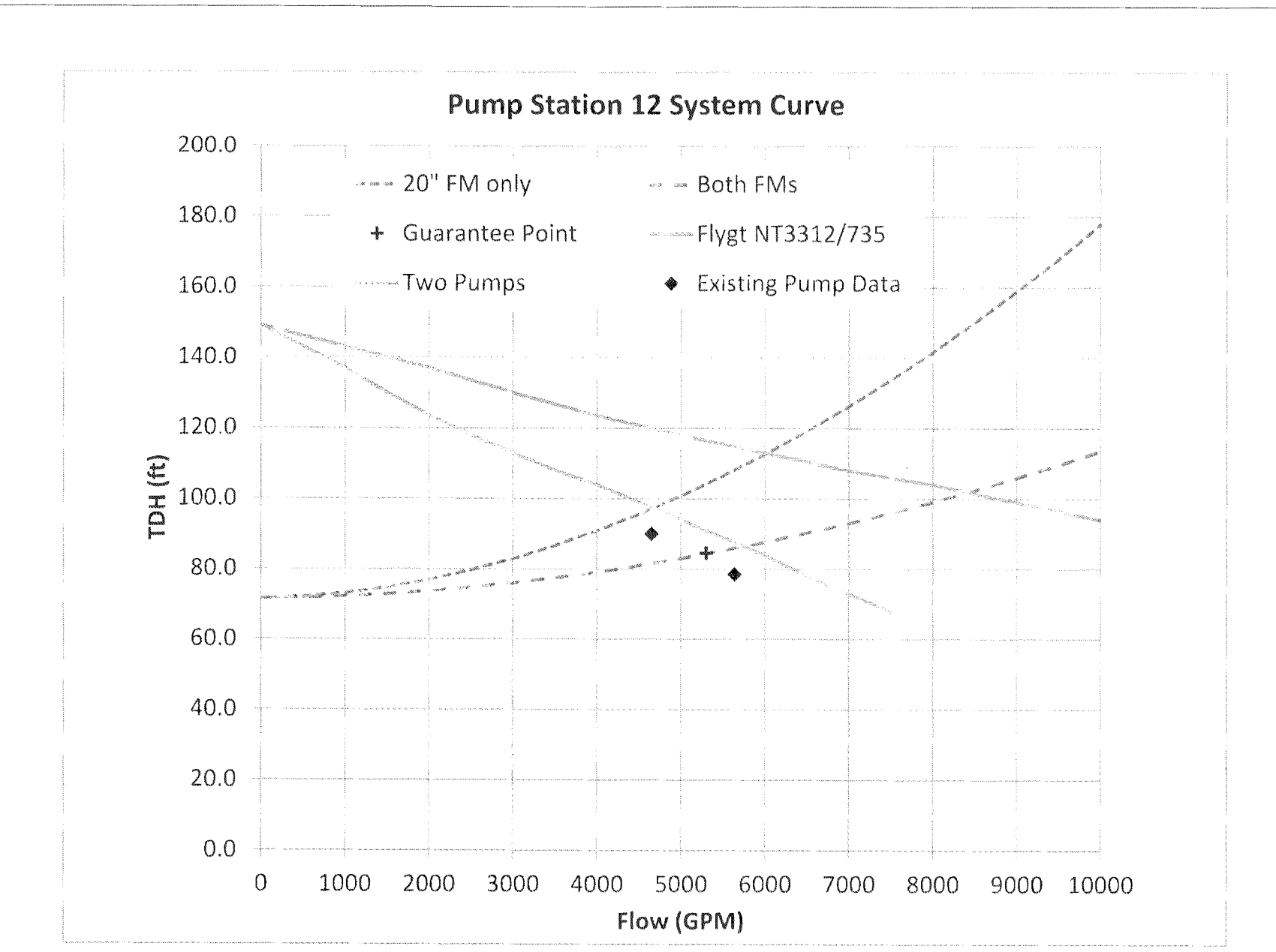
5 PEDESTAL & DISCHARGE PIPING (PUMP #2)
SCALE: NONE



5 PUMP INSTRUMENTATION (PUMP #2)
SCALE: NONE

NOTES

1. REPLACE EXISTING DRY PIT SUBMERSIBLE PUMPS 2 AND 3 WITH NEW PUMPS PER SPECIFICATIONS.
2. NEW 12"x10" REDUCER WITH 12" FLANGE AND 10" MEGA FLANGE INSTALLED BETWEEN 12" REDUCING ELL AND PUMP INLET
3. REPLACE PUMP BASEPLATE AS REQUIRED. ANCHOR PLATE AND PUMP TO CONCRETE BASE USING EXISTING ANCHOR BOLTS AND ADDITIONAL ANCHORS AS RECOMMENDED BY PUMP MANUFACTURER. PROVIDE EPOXY GROUT FOR CONTINUOUS CONTACT BETWEEN BASEPLATE AND EXISTING CONCRETE PEDESTAL.
4. REPLACE PUMP DISCHARGE PIPING TO INLET FLANGE OF NEW PUMP CONTROL VALVE. PROVIDE ECCENTRIC REDUCER (AS REQUIRED TO MATCH PUMP DISCHARGE FLANGE), ELBOW AND 10" FLANGE COUPLING ADAPTER.
5. PUMP PEDESTALS ARE ROTATED TO ALIGN WITH PUMP DISCHARGE FLANGE -- APPROXIMATELY 22.5 DEGREES FROM PUMP STATION WALLS.
6. PROVIDE 1/2" FPT TAPPING ON TOP OF PIPE SPOOL. RECONNECT EXISTING PRESSURE GAUGE AND SENSOR PIPING. RECONNECT ANY WIRING OR SUPPORTS DISCONNECTED DURING CONSTRUCTION.
7. CONNECT PUMP POWER CABLES TO EXISTING DISCONNECTS LOCATED ON GRATING ABOVE PUMP FLOOR. PROVIDE ADEQUATE SLACK IN CABLES TO ALLOW PUMP TO BE SET ON FLOOR ADJACENT TO PEDESTAL. CONNECT MONITORING CABLES TO EXISTING J-BOX NEAR TOP OF EXISTING PUMP MOTORS.



REINSTALL EXISTING VIBRATION SENSORS ON NEW PUMPS. PROVIDE NEW BRACKETS IF REQUIRED TO CONNECT TO TWO BOLTS ON PUMP.

FILE: P:\PROJECTS\AWWU\PUMP STATION 12\DWG\RECORD DRAWING\M2.DWG PLOT DATE: 4/18/2013 2:37 PM

VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		0" = 1"		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.		FULL SIZE SCALE	
DATA	DRAWN BY	CHECKED BY	DATE	REV	DESCRIPTION	BY	DATE	DATE	DATE
BASE			1/2013	1	RECORD DRAWINGS	ZBB			
TOPOGRAPHY									
PROFILE									
SANITARY SEWER									
STORM SEWER									
WATER									
GAS									

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: Eric Mobbs
This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: MKB Constructors
BY: Eric Mobbs TITLE: Superintendent
DATE: 4-11-2013

2. DATA TRANSFERRED BY: Z. Baldwin
COMPANY: EDC, Inc
DATE: 2/28/13

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
DATA TRANSFER CHECKED BY: K. Hansen
COMPANY: EDC, Inc
BY: Kevin Hansen TITLE: Mech Eng
DATE: 7/19/13

REUSE OF DOCUMENTS

THIS DOCUMENT AND THE IDEAS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF AWWU AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF AWWU.

EDC
213 W. FREWEED LANE
ANCHORAGE, AK (907)
276-7933
CONSULTANT

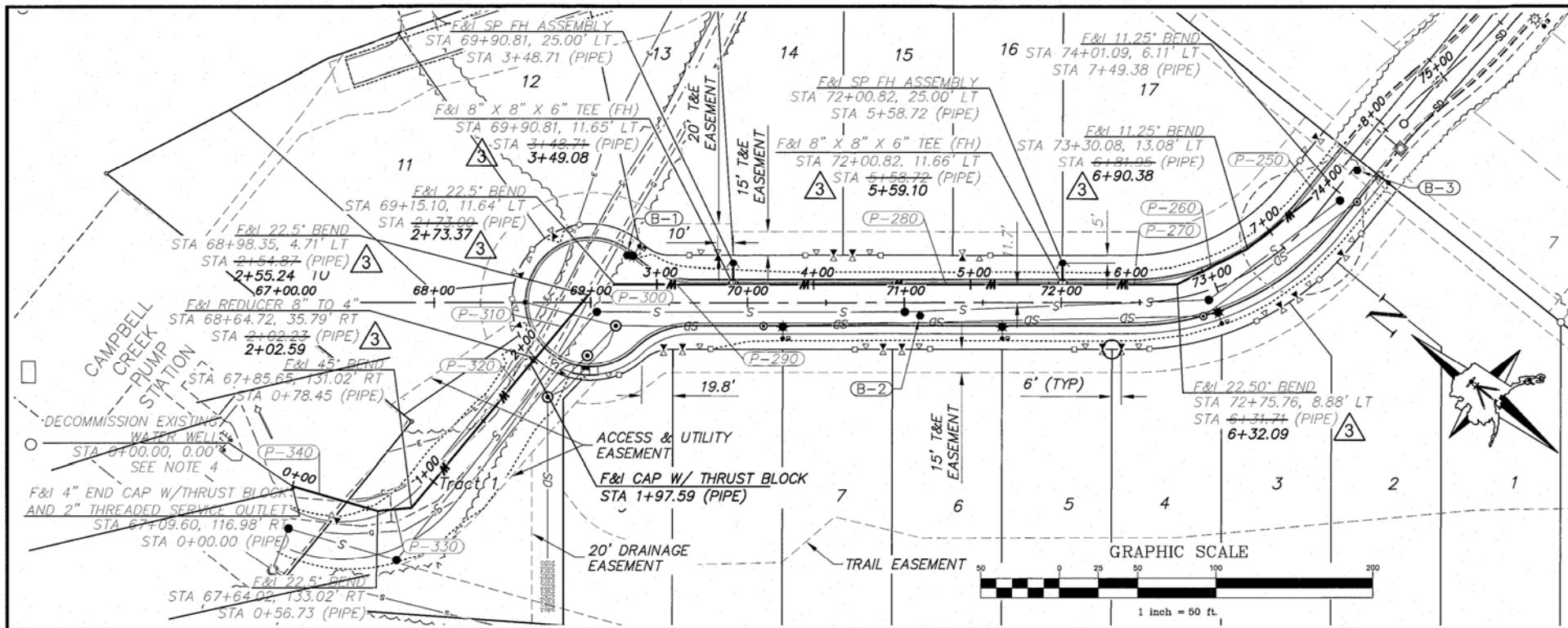
STATE OF ALASKA
Professional Engineer
Kevin L. Hansen
No. ME-5641
5/1/13
SEAL

AWWU
ANCHORAGE WATER & WASTEWATER UTILITY
MUNICIPALITY OF ANCHORAGE

MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY
PUMP STATION 12
VALVE & PUMP REPLACEMENT
PUMP REPLACEMENT

HORIZ SCALE: AS NOTED DATE: 3/9/2011 GRID: SW2525
VERT SCALE: PROJ. ID.: 0000006139

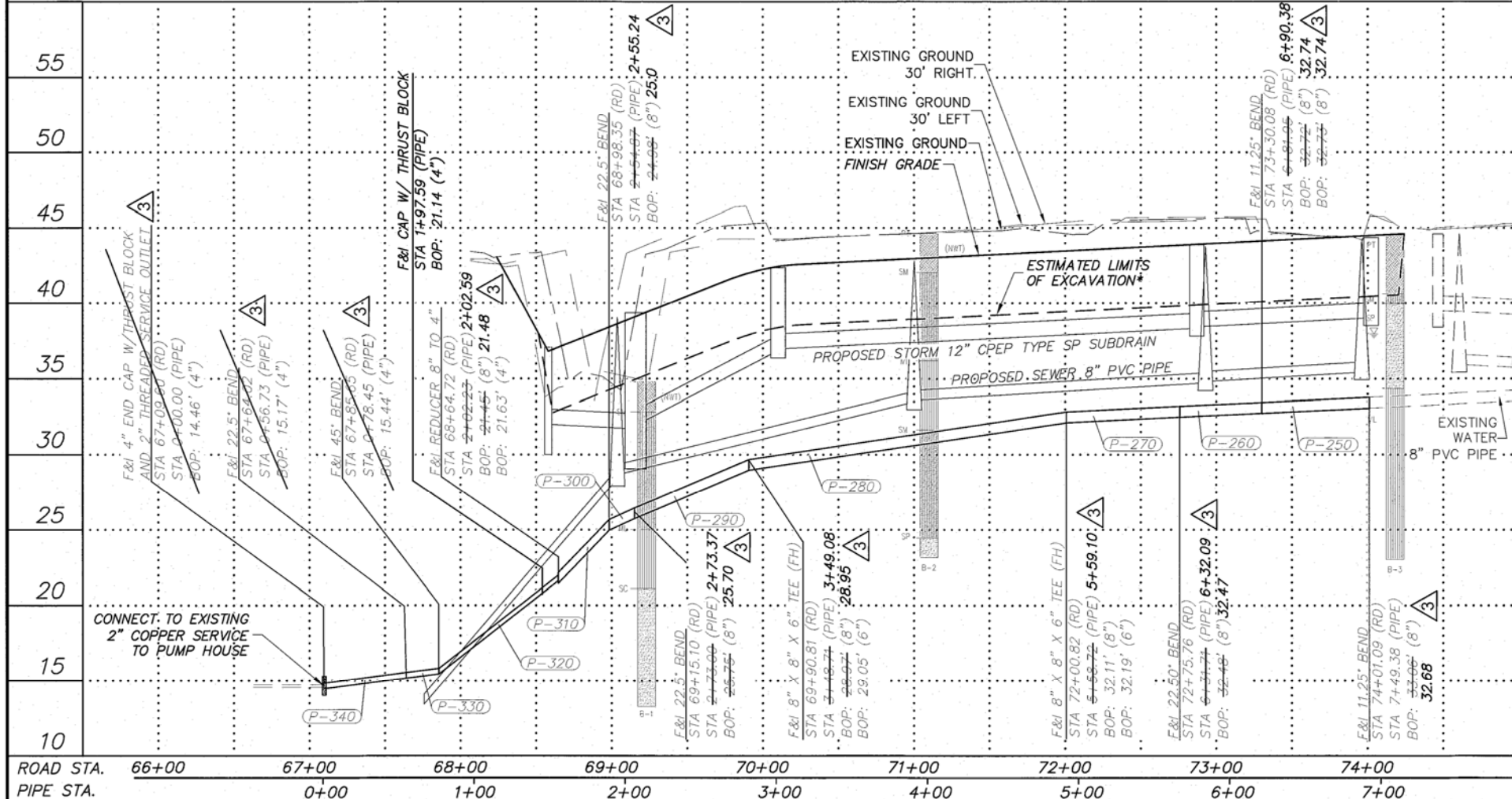
DRAWING
M2
SHT 3 of 3



CHEVELEY CIRCLE PIPE SCHEDULE

PIPE ID	BEARING	MATERIAL	LENGTH	SLOPE	START NORTHING	START EASTING	END NORTHING	END EASTING
P-250	N77-40-48W	8" PVC Pipe	67.44	0.09%	11126.98	9155.38	11141.37	9089.49
P-260	N65-25-49W	8" PVC Pipe	50.24	0.54%	11141.37	9089.49	11162.26	9043.80
P-270	N38-55-50W	8" PVC Pipe	72.99	0.49%	11162.26	9043.80	11219.03	8997.94
P-280	N38-55-50W	8" PVC Pipe	210.02	1.50%	11219.03	8997.94	11382.41	8865.97
P-290	N38-55-50W	8" PVC Pipe	75.71	4.29%	11382.41	8865.97	11441.30	8818.40
P-300	N61-25-49W	8" PVC Pipe	18.13	3.86%	11441.30	8818.40	11449.97	8802.48
P-310	N89-13-17W	8" PVC Pipe	52.64	6.69%	11449.97	8802.48	11450.68	8749.84
P-320	N89-13-17W	4" PVC Pipe	5.00	9.80%	11450.68	8749.84	11452.37	8744.84
P-330	N44-13-17W	4" PVC Pipe	21.72	1.24%	11452.37	8626.08	11467.93	8610.93
P-340	N22-30-00W	4" PVC Pipe	56.73	1.25%	11467.93	8610.93	11520.35	8589.22

*ALL WATER MAINS SHALL BE POLYVINYL CHLORIDE (PVC) CERTA-LOK C900, R/JIB DR18



WATER SERVICE SCHEDULE (ASB)

LOT NO.	BLOCK	STA @ MAIN	BOP @ PL	LENGTH TO PL	SLOPE	OFFSET FROM PROP. CORNER
1	1A	7+35.63	33.31	42.0	0.0	6.0
2	1A	6+87.38	33.62	47.0	0.0	6.0
3	1A	6+84.38	33.39	45.0	0.0	6.0
4	1A	6+08.33	32.41	44.0	0.0	6.0
5	1A	6+05.33	32.24	44.0	0.0	6.0
6	1A	4+54.03	32.43	44.0	0.0	6.0
7	1A	4+51.53	32.21	44.0	0.0	6.0
8	1A	3+12.73	29.99	45.0	0.0	6.0
9	1A	3+09.73	29.80	45.0	0.0	6.0
10	1A	2+12.29	26.05	44.0	0.0	6.0
11	1A	2+49.24	26.81	46.0	0.0	6.0
12	1A	2+52.24	26.75	46.0	0.0	6.0
13	1A	3+18.73	31.31	17.5	0.0	10.0
14	1A	4+11.53	32.34	17.5	0.0	6.0
15	1A	4+24.03	32.48	17.5	0.0	6.0
16	1A	4+93.53	32.08	17.5	0.0	6.0
17	1A	7+64.66	34.22	17.5	0.0	6.0
AWWU						

ANODE TABLE

STA./OFFSET	STA./OFFSET
7+43.13, -2.0	72+26.27, 29.81
6+90.38, 2.0	70+98.80, 29.86
6+32.09, -2.0	70+85.46, 29.76
5+59.10, -3.0	69+58.33, 29.72
3+49.08, 2.0	69+46.28, 30.08
2+73.37, -2.0	68+52.35, 14.99
2+55.24, 2.0	68+53.37, -18.69
2+02.59, -2.0	68+75.64, -44.19
ROAD STA/OFFSET	69+80.96, -30.04
73+71.30, 30.24	70+54.87, -30.14
73+38.85, 29.82	70+66.90, -30.12
73+28.90, 29.66	71+36.88, -30.24
72+38.21, 29.70	74+18.24, -29.97

- #### SHEET NOTES:
- PROFILES ARE BASED ON CONSTRUCTION CENTERLINE ALIGNMENT. ROAD STATIONING IS SHOWN FOR CLARIFICATION.
 - SEE SHEET 2 FOR LEGEND, ABBREVIATIONS, KEY AND VICINITY MAPS. SEE SHEET 5 FOR CONSTRUCTION NOTES.
 - SEE TYPICAL SECTION ON SHEET 6 FOR PROPOSED UTILITIES IN REFERENCE TO STREET CENTERLINE.
 - DECOMMISSION EXISTING WELL PER ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND ALASKA DEPARTMENT OF NATURAL RESOURCES CURRENT REGULATIONS.

**BEFORE YOU DIG
CALL FOR FREE
UNDERGROUND
LOCATION**

Locate Call Center of Alaska
Statewide 800-478-3121
will notify subscribed utilities only. Other
utilities need to be contacted individually.

VERIFY SCALE

THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.

DATA	DRAWN BY	CHECKED BY	DATE	DESCRIPTION	BY
BASE	BS	JG	8/28/18	CONTRACTOR'S REDLINES	CC
TOPOGRAPHY	BS	JG			
PROFILE	DJ	SP			
SANITARY SEWER	DJ	SP			
STORM SEWER	DJ	SP			
WATER	DJ	SP			
GAS	DJ	SP			

PLAN CHECK

RECORD DRAWING

Note: To be filled out on original drawings upon project completion.

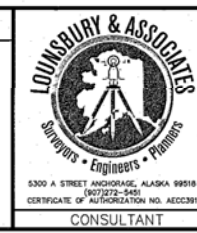
1. DATA PROVIDED BY: CODY TROSETH
This shall serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: MASS-X
BY: [Signature] TITLE: SUPERVISOR
DATE: 10/14/18

2. DATA TRANSFERRED BY: CLAYTON CHOROMANSKI
COMPANY: LOUNSBURY & ASSOCIATES
DATE: 9/4/2018

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
DATA TRANSFER CHECKED BY: SCOTT POLICE
COMPANY: LOUNSBURY & ASSOCIATES
BY: [Signature] TITLE: PROJECT ENGINEER
DATE: 9/4/2018

REUSE OF DOCUMENTS

THIS DOCUMENT AND THE IDEAS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF MOA AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF MOA.



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

PRIVATE DEVELOPMENT NO. 17-003
RESOLUTION BLUFFS

WATER IMPROVEMENTS

CHEVELEY CIRCLE BOP TO EOP

SCALE: H: 1:50 DATE: 7/17/2017 GRIDS: 2525
V: 1:5 AWWU PROJ. WS17-002 ACCT. NO. 17-018 SHEET W1 of 19