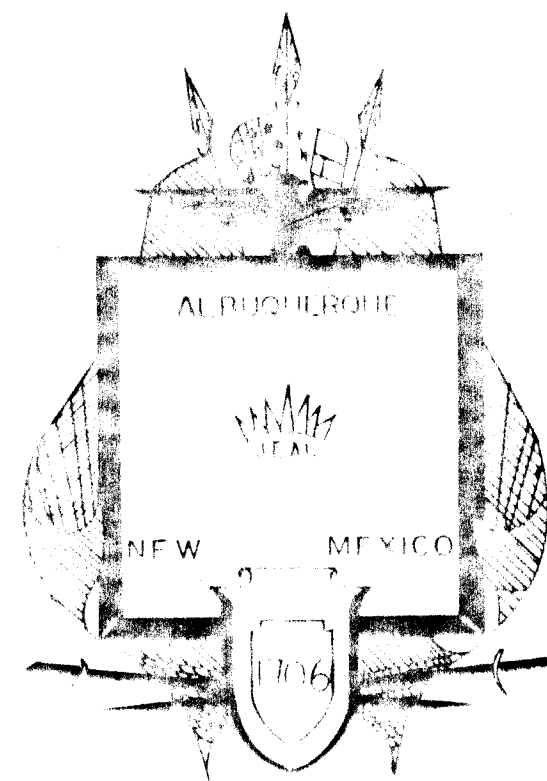




CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

PLANS FOR
CONSTRUCTION OF

PHASE I REHABILITATION
STORM WATER PUMPING STATIONS

TIJERAS UNDERPASS STATION NO. 26
BROADWAY STATION NO. 31
CENTRAL UNDERPASS STATION NO. 27
BARELAS STATION NO. 32
DURANES STATION NO. 30
CANDELARIA STATION NO. 40
BELL AND COMMERCIAL STATION NO. 37

GENERAL NOTES

1. ALL WORK DETAIL ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTION IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION 1979 EDITION (REFERRED TO HEREIN AS THE STANDARD SPECIFICATION) & THE CONTRACT DOCUMENTS FOR PHASE I REHABILITATION STORM WATER PUMPING STATIONS.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL OBTAIN APPROVAL FROM OWNER AT LEAST ONE WEEK BEFORE COMMENCING ANY EXCAVATION.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE & VERIFY THE HORIZONTAL & VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WELL WELL DE WATERING WHEN NECESSARY FOR CONSTRUCTION AT ALL STATIONS. THIS WILL BE INCIDENTAL TO THE CONSTRUCTION.
5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY BUILDING PERMITS BEFORE BEGINNING WORK AT EACH PUMPING STATION.
6. ALL ITEMS IN THIS CONTRACT SHALL BE PAINTED OR GALVANIZED. SEE SECTION 624 FOR PAINTING SPECIFICATIONS.
7. THE CONTRACTOR SHALL GALVANIZE NEW FENCE, PIPE HANGERS, THRUST RODS, PIPE SUPPORTS, MISCELLANEOUS PIPE SUPPORT APPURTENANCES, SUBMERSIBLE SUMP PUMP GUIDE BARS AND GUIDE BAR BRACKETS. SEE SECTION 136 OF THE STANDARD SPECIFICATIONS.
8. THIS CONTRACT IS SUBJECT TO SEVERE SCHEDULING RESTRAINTS. SEE SECTION 626 OF THE SPECIFICATIONS.

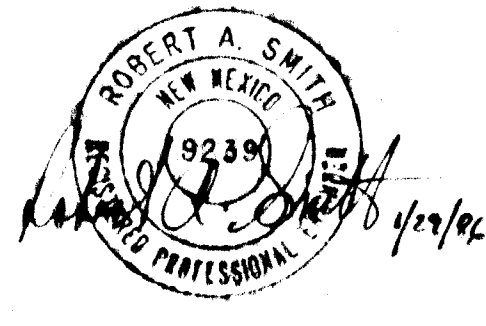
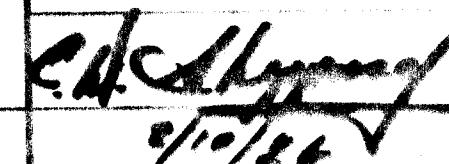
9. THE CONTRACTOR SHALL FOLLOW WRITTEN CITY POLICY REGARDING LOCKOUT PROCEDURES PRIOR TO WORKING ON ANY ROTATING OR ROTATING EQUIPMENT. THE CONTRACTOR SHALL OBTAIN LOCKOUT PROCEDURES FROM LIQUID WASTES DIVISION.

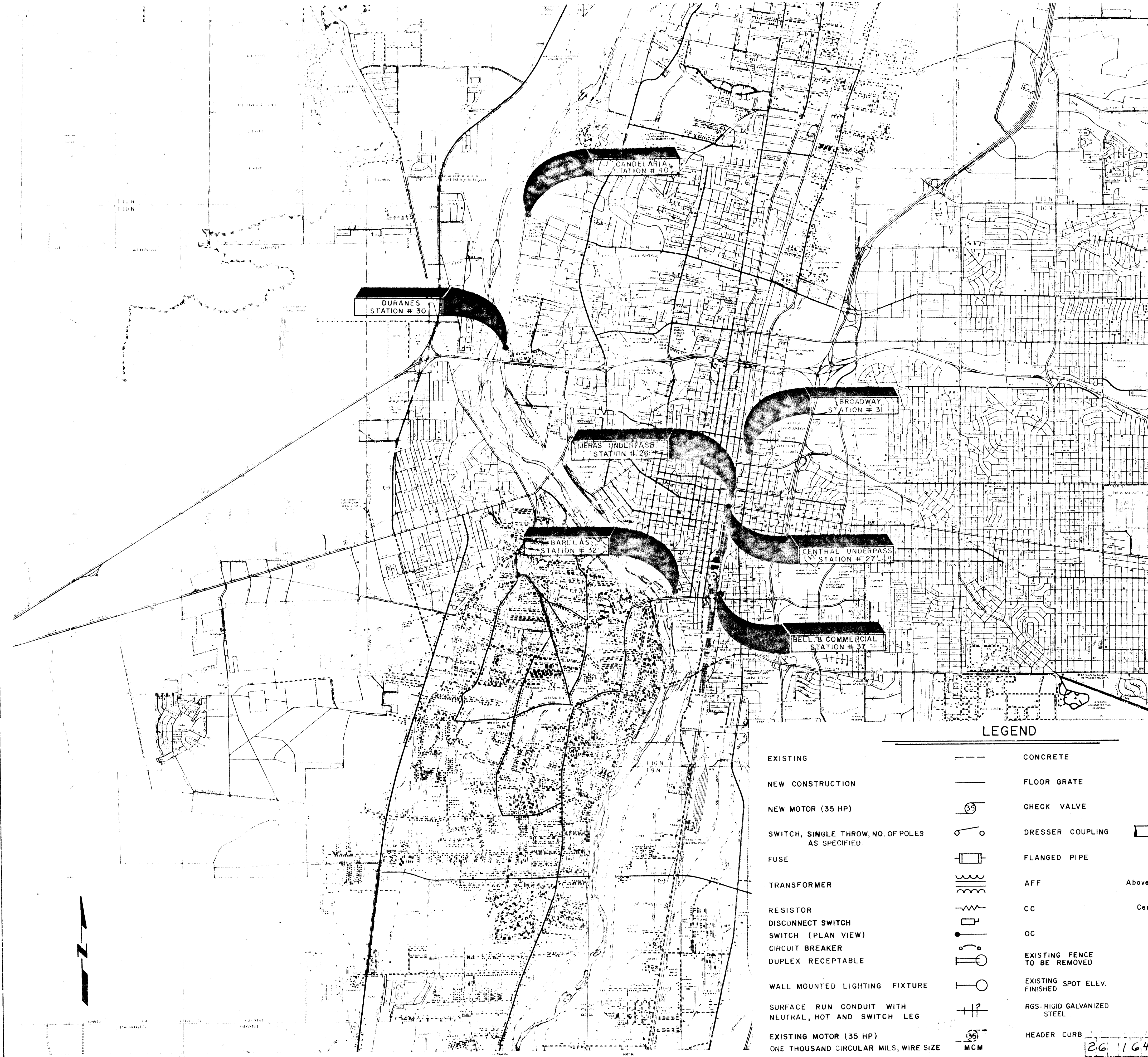
26 16470187

AS BUILT TO DATE

5/5/87

REV	SHEETS	CITY ENGINEER	DATE	USER	DEPT	DATE	USER	DEPT	DATE
APPROVAL OF REVISIONS									

	 1647	APPROVED FOR CONSTRUCTION  5/10/87 SHEET 1 OF 18
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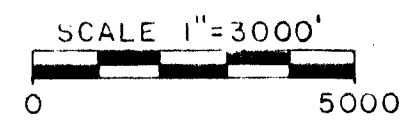
LEGEND

EXISTING	---	CONCRETE	
NEW CONSTRUCTION	---	FLOOR GRATE	
NEW MOTOR (35 HP)		CHECK VALVE	
SWITCH, SINGLE THROW, NO. OF POLES AS SPECIFIED		DRESSER COUPLING	
FUSE		FLANGED PIPE	
TRANSFORMER		AFF	Above Finished Floor
RESISTOR		CC	Center To Center
DISCONNECT SWITCH		OC	On Center
SWITCH (PLAN VIEW)		EXISTING FENCE TO BE REMOVED	-X*-X*-
CIRCUIT BREAKER		EXISTING SPOT ELEV. FINISHED	4943.42 4944.00
DUPLEX RECEPTABLE		RGS-RIGID GALVANIZED STEEL	
WALL MOUNTED LIGHTING FIXTURE		HEADER CURB	
SURFACE RUN CONDUIT WITH NEUTRAL, HOT AND SWITCH LEG			
EXISTING MOTOR (35 HP)			
ONE THOUSAND CIRCULAR MILS, WIRE SIZE			

DRAWING INDEX

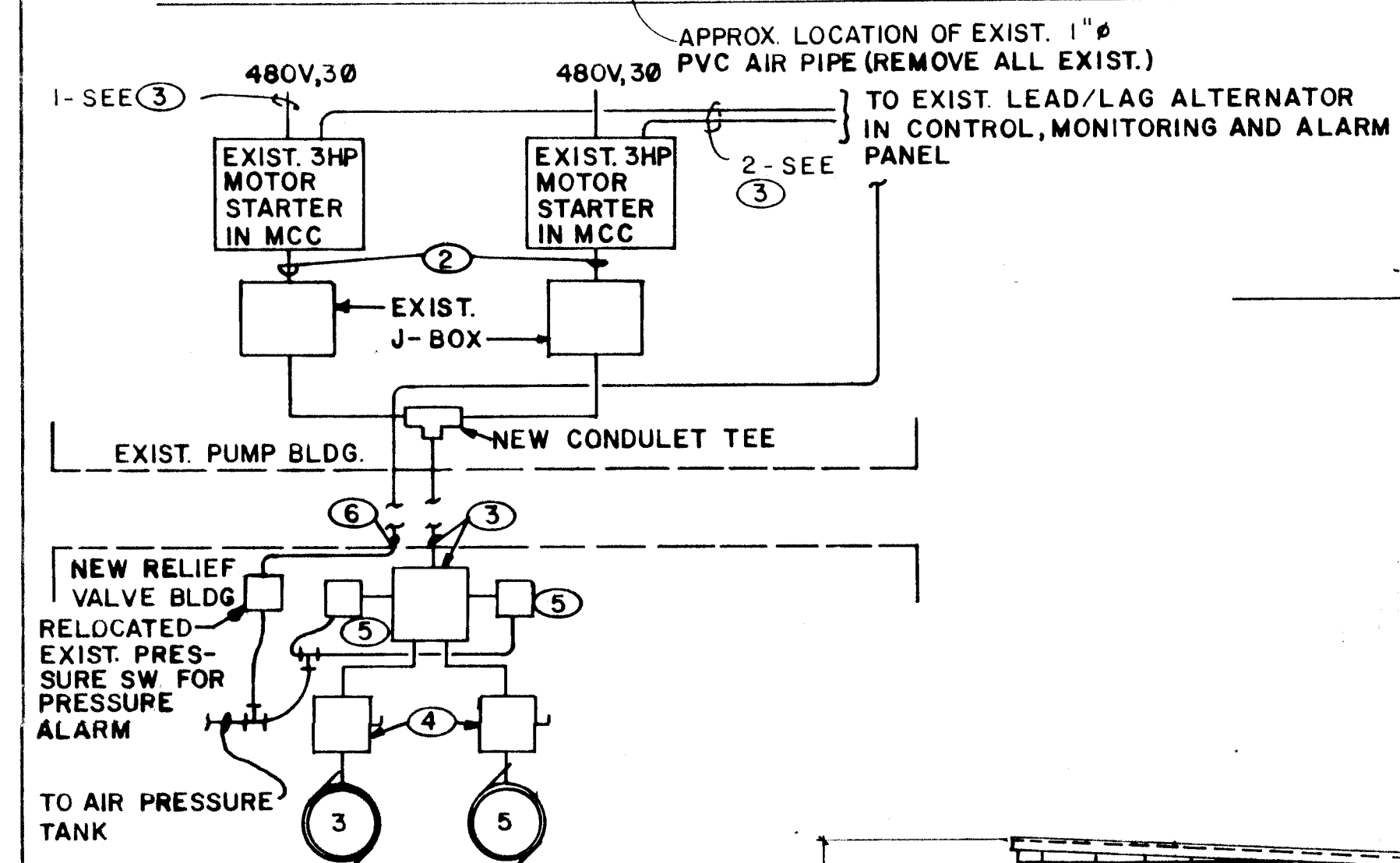
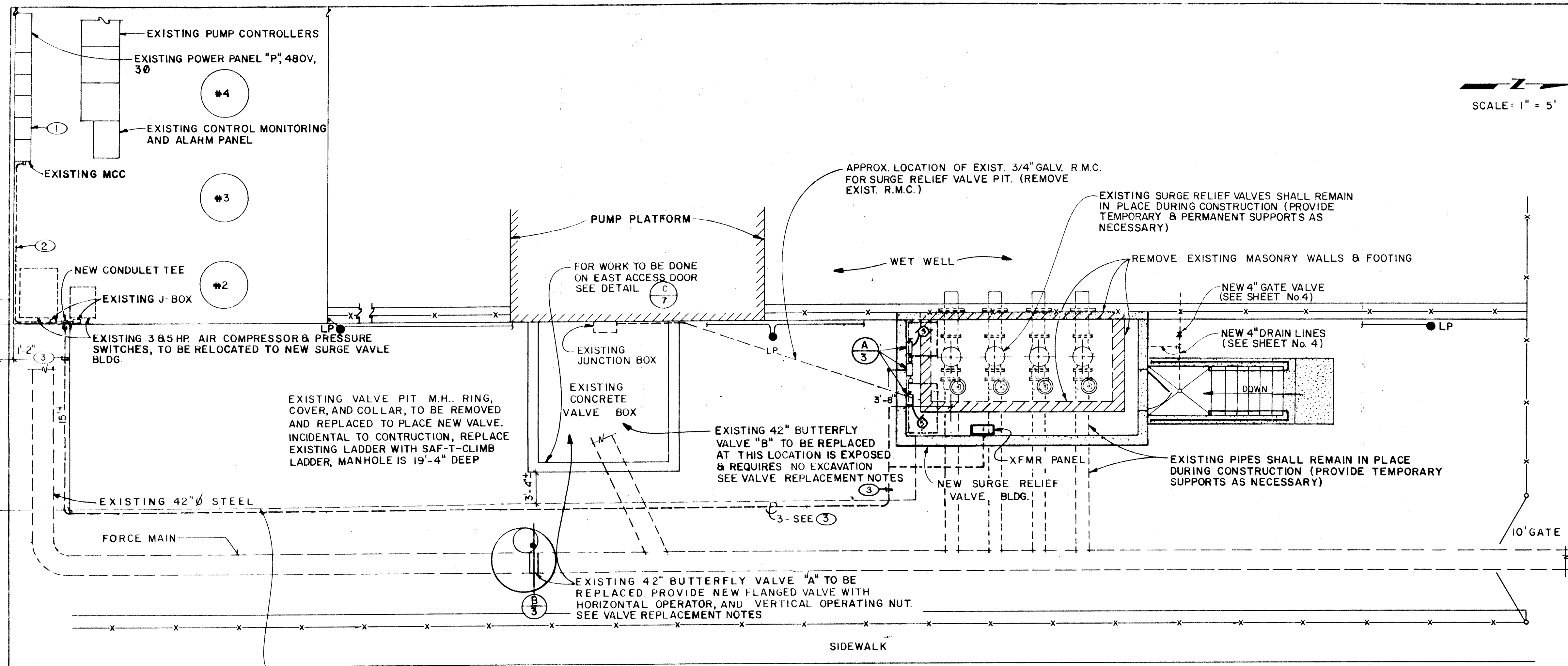
COVER SHEET	1
LOCATION MAP AND DRAWING INDEX	2
BROADWAY NO. 31	
SITE PLAN AND ELEVATIONS	3
SURGE VALVE PIT - SECTIONS AND DETAILS	4
FRAME AND PEDESTAL PLAN	5
FRAME AND PEDESTAL DETAILS	6
FRAME AND PEDESTAL DETAILS	7
TIJERAS UNDERPASS NO. 26 CENTRAL UNDERPASS NO. 27	
VENTILATION AND SAFETY RENOVATIONS	8
BARELAS NO. 32	
SUMP PUMP AND DETAILS	9
ELECTRICAL PLAN AND ELEVATIONS	10
SITE PLAN AND DETAILS	11
DETAILS	12
DURANES NO. 30	
SUMP PUMP AND DETAILS	13
ELECTRICAL PLANS AND DIAGRAMS	14
CANDELARIA NO. 40	
SUMP PUMP AND DETAILS	15
ELECTRICAL PLANS AND DIAGRAMS	16
DURANES NO. 30 AND CANDELARIA NO. 40	
HATCH DETAILS	17 & 17A
BELL AND COMMERCIAL NO. 37	
SAFETY RENOVATIONS	18

DETAIL IDENTIFICATION BUBBLE		SECTION No.	
EXISTING FENCE	-x-x-	EXIST. LIGHT POLE	
NEW FENCE	-x-	NEW LIGHT POLE	

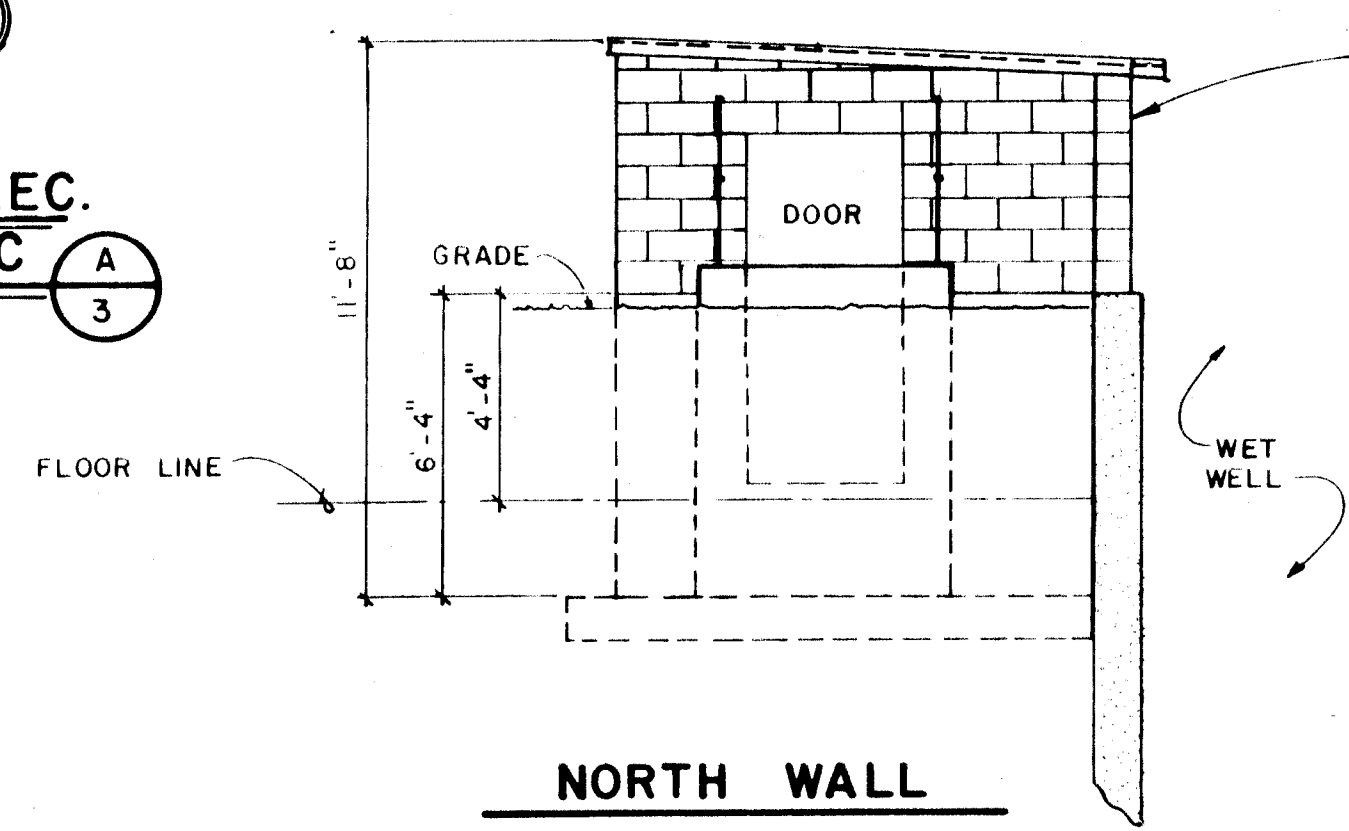


ENGINEER'S SEAL		CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT PHASE I REHABILITATION STORM WATER PUMPING STATIONS TITLE: LOCATION MAP & DRAWING INDEX			
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
		5/2/84			5/2/84
DRAWING NO. 1647		SHEET 2 OF 18			

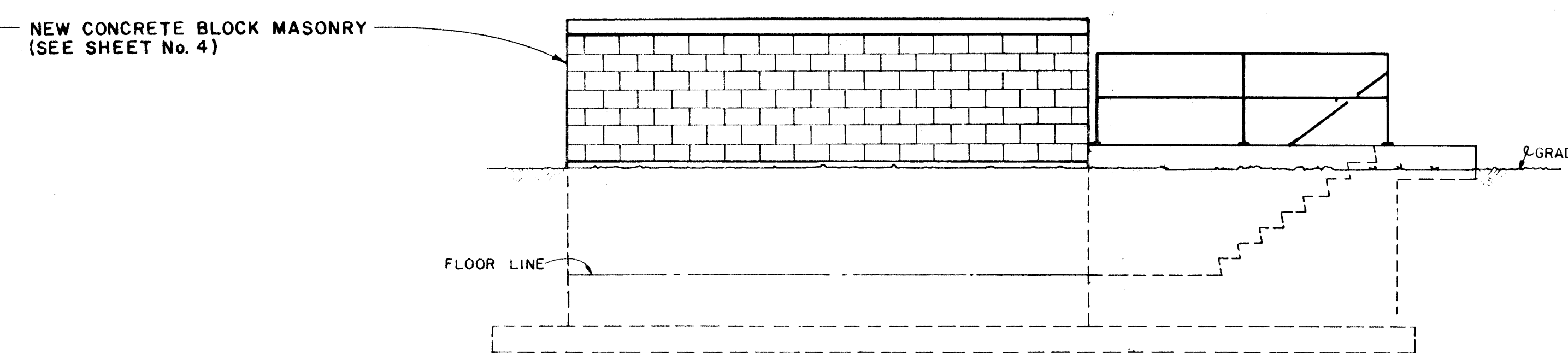
AS BUILT INFORMATION	CONTRACTOR	NOTED ON EACH STATION	DATE
ROGERS Const	BOVAY	PLAN	DATE
INSPECTED BY	DATE	NO.	DATE
ACCEPTANCE BY	DATE	BY	DATE
VERIFICATION BY	DATE	NO.	DATE
RECORDED BY	DATE	NO.	DATE
MICRO-FILM INFORMATION	DATE	NO.	DATE



COMPRESSORS ELEC. POWER SCHEMATIC
A 3

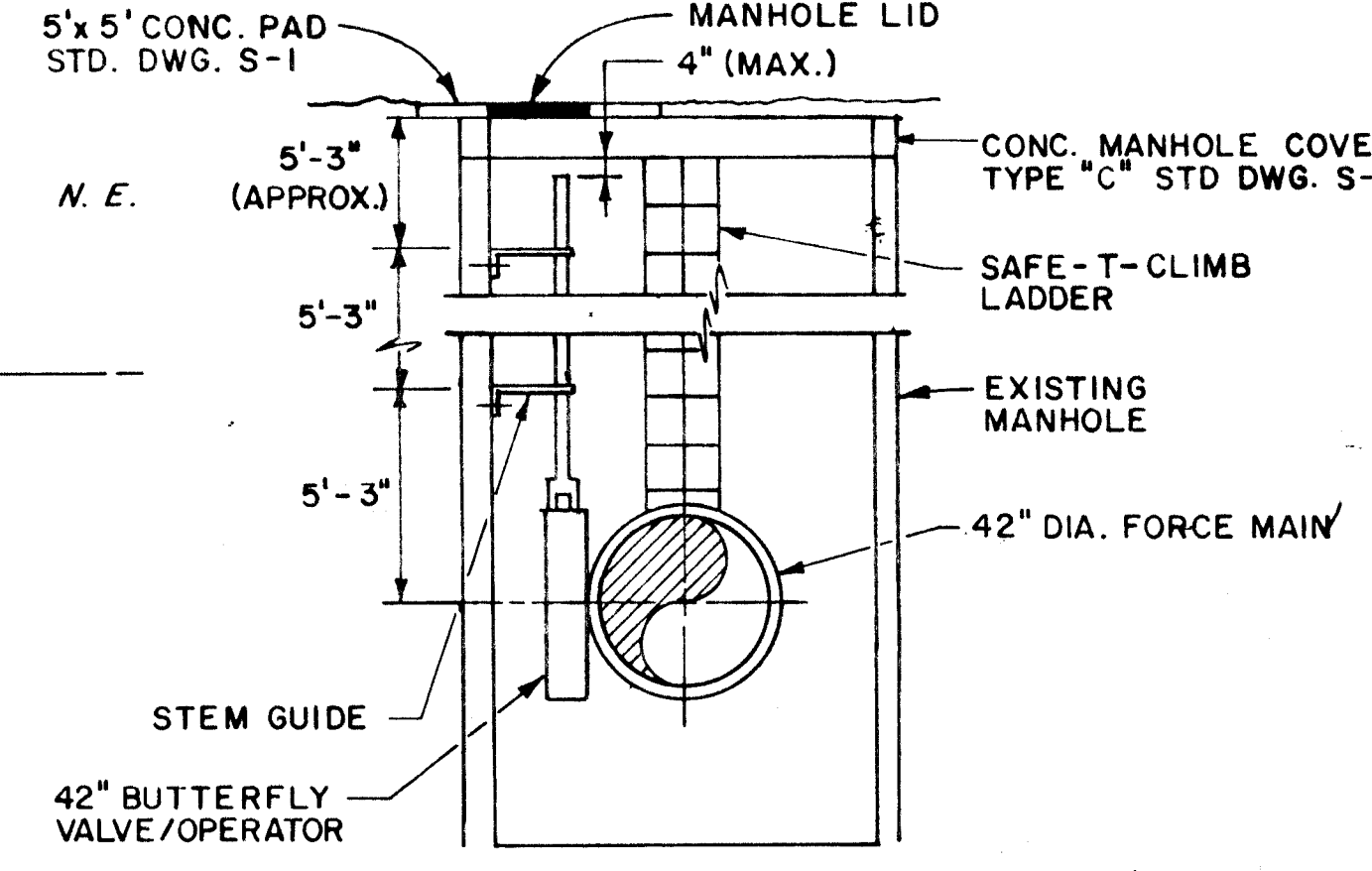


NORTH WALL



NEW SURGE VALVE PIT

ELEVATIONS
SCALE: NONE



MANHOLE SECTION B-3
SCALE: 1/4" = 1'-0"

- BUTTERFLY VALVE REPLACEMENT**
- TWO 42" BUTTERFLY VALVES SHALL BE REPLACED.
 - EACH SHALL BE A FLANGED DRESSER STYLE 1450, OR MUELLER LINESEAL III, OR OTHER APPROVED.
 - THE OPERATOR SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS.
 - VALVE "A" SHALL HAVE AN EXTENSION ARM REACHING WITHIN 1-FOOT OF THE MANHOLE COVER.
 - THE EXTENSION ARM SHALL BE SECURED WITH AT LEAST TWO STEM GUIDES SPACED EQUALLY AND BOLTED TO THE M.H. WALL WITH ANCHOR BOLTS AND GROUT FILL BETWEEN THE GUIDE AND WALL.
 - THE M.H. COVER SHALL BE LOCATED OVER THE EXTENSION ARM AND RUNG PLACED APPROPRIATELY FOR VALVE OPERATION.
 - INSTALL BUTT STRAP TO FACILITATE CONSTRUCTION.

NOTES

- RE-LOCATE AIR COMPRESSOR FOR SURGE VALVES FROM MAIN BUILDING TO S.E. CORNER OF NEW SURGE VALVE PIT BUILDING. SEE SHEET 4 FOR POWER RECEPTACLE LOCATION. LOCATE PVC AIR TUBE IN OLD SURGE VALVE PIT BUILDING AND HOOK UP TO AIR COMPRESSOR WHEN RE-LOCATED.
- STATION IS NOT TO BE TAKEN OUT OF SERVICE AT ANY TIME WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY.
- ALL MATERIALS AND EQUIPMENT REMOVED DURING CONSTRUCTION SHALL REMAIN THE PROPERTY OF THE CITY. THE CONTRACTOR SHALL DELIVER SALVAGE MATERIALS TO THE SALVAGE AREA AT THE SOUTHSIDE WATER RECLAMATION PLANT. THE CONTRACTOR SHALL CONTACT THE LIQUID WASTES DIVISION BEFORE DELIVERY TO DETERMINE THE EXACT TIME AND PLACE OF DELIVERY. NON-SALVAGEABLE MATERIALS SHALL BE DETERMINED BY THE LIQUID WASTES DIVISION. ALL NON-SALVAGEABLE MATERIALS SHALL BE REMOVED BY THE CONTRACTOR.
- SEE SHEET NO. 4 FOR DIMENSIONS.
- SURGE RELIEF VALVES SHALL REMAIN IN SERVICE AT ALL TIMES. CONTRACTOR MAY USE A PORTABLE AIR COMPRESSOR IF NECESSARY.
- CONTRACTOR IS TO SUPPLY STATION WITH 2 SAF-T-BELTS AND STORAGE HOOKS FOR USE WITH THE SAF-T-CLIMB LADDER, OR APPROVED EQUALS.

KEYED NOTES

- EXISTING MOTOR STARTERS FOR 3 & 5 HP AIRCOMPRESSORS.
- EXISTING WIRES & CONDUITS TO 3 & 5 HP AIRCOMPRESSORS, AFTER RELOCATION OF COMPRESSORS, EXTEND BOTH CIRCUITS TO NEW 8'x8'x6", NEMA-1, J-BOX, MOUNTED AT 5'.
- PROVIDE 3 NEW CONDUITS: 1-1" C. FOR CONTROL; 2-1/2" C. FOR DISC. COMPRESSOR; 3-1/2" C. FOR XFM. PANEL. EACH WITH 3 #10, 3 #12, 1 #14 GND. & 4 #14 CONTROL WIRES. EXTEND COMPRESSOR MOTOR CIRCUITS (2) FROM EXIST. J-BOXES TO NEW N.F. DISCONNECT & MOTORS AT NEW LOC. CONDUIT & WIRE TO ROUTED THRU THE WALL.
- NEW 3P-30A, N.F. 480V, NEMA DISCONNECT PIGTAILS FROM DISCONNECTS TO MOTORS TO BE OIL-TIGHT FLEX. CONDUIT.
- RELOCATED EXIST. PRESSURE SWITCH.
- NEW 1/2" CONDUIT & WIRE TO EXIST. CONTROL, MONITORING & ALARM PANEL. BURY IN SAME TRENCH WITH 1/4" C.

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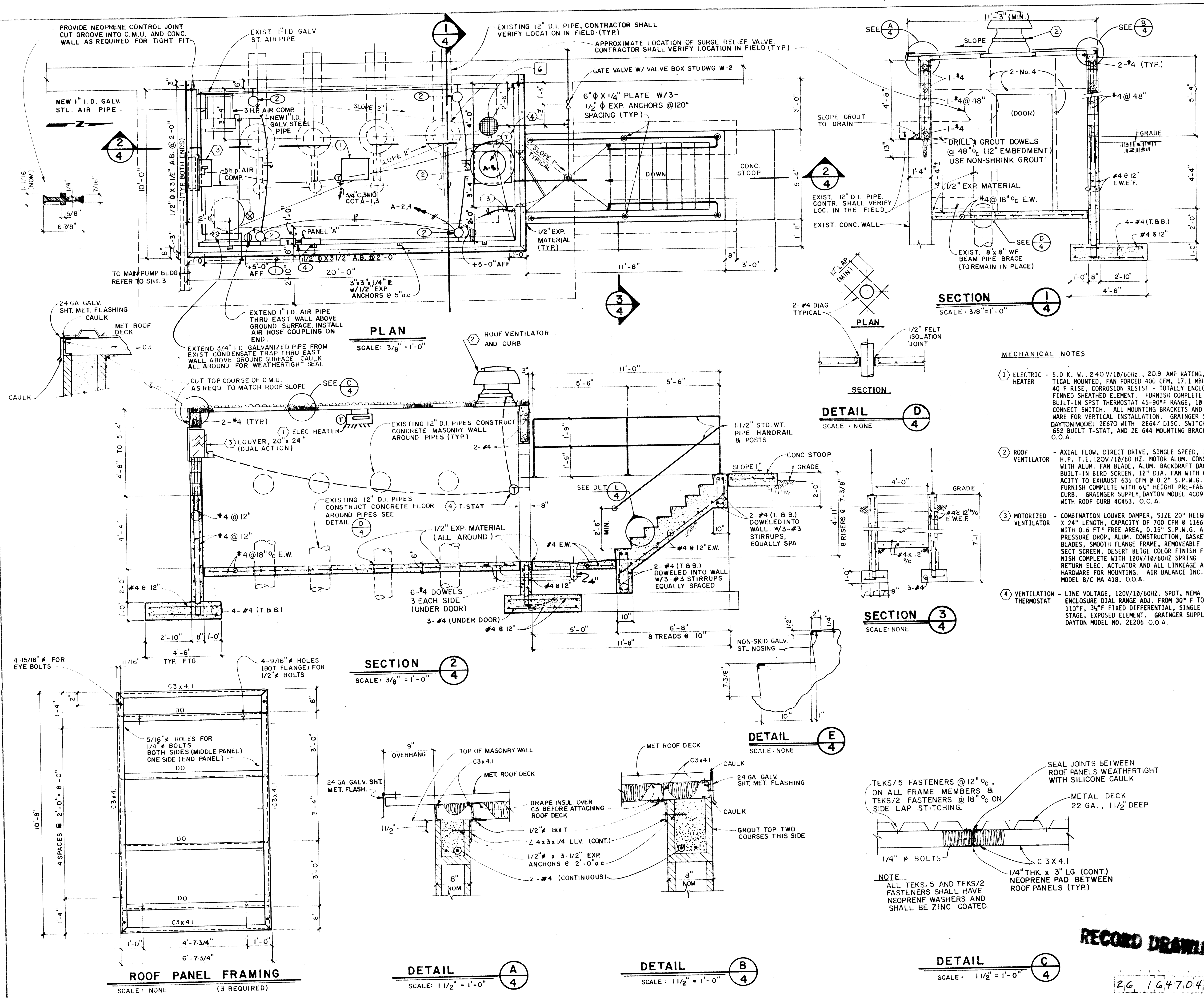
ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	DESIGNED BY	C.M.	DATE	DRAWN BY	D.M.R.	DATE	CHECKED BY	S.F.F.	DATE
1	11/17/87	AS BUILT	MSD					5/84			
2	5/6/87	AS BUILT TO DATE	JNA					5/84			

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: SITE PLAN & ELEVATIONS					
PHASE I REHABILITATION STORM WATER PUMPING STATIONS BROADWAY STATION NO. 31					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	2/11/86	Liquid Waste	<i>[Signature]</i>	1-29-86
A.C.E.-Design	<i>[Signature]</i>	1/29/86	Traffic	<i>[Signature]</i>	1/29/86
A.C.E.-Hydrology	<i>[Signature]</i>	1/29/86	Water	<i>[Signature]</i>	1-29-86
DRAWING NO.	1647	MAP NO.	J-14	SHEET	3 OF 18

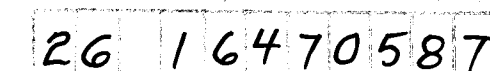
RECORD DRAWING



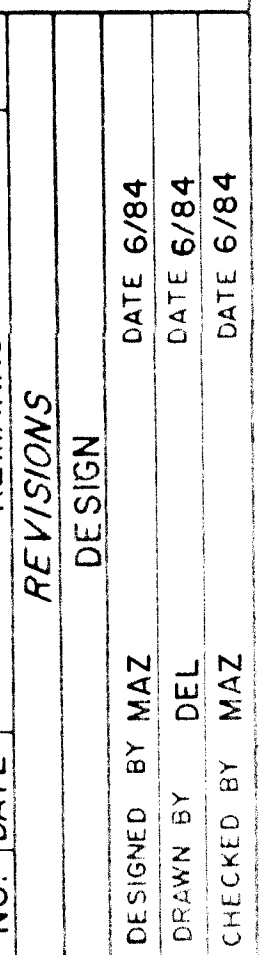
STRUCTURAL NOTES		AS BUILT INFORMATION		CONTRACTOR		ROGERS		CONST		DATE		DATE		DATE		DATE		DATE		DATE	
1) ROOF LOADINGS: LIVE LOAD - 20 PSF DEAD LOAD - 5 PSF																					
2) ASSUMED SOIL BEARING CAPACITY IS 2000 PSF.																					
3) CAST FOOTING ON UNDISTURBED EARTH.																					
4) WELD ALL FRAME CONNECTIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.																					
5) EYE BOLTS: SHOULDER PATTERN, 1" DIAMETER EYE WITH 1" Ø X 1" THREADED SHANK.																					
6) PIPERAIL: SHALL CONFORM TO ASTM A53 TYPE E OR S, GRADE B.																					
7) STRUCTURAL STEEL: SHALL CONFORM TO ASTM A36.																					
8) METAL DECK: SHALL CONFORM TO ASTM A611, GRADE C.																					
9) WELD: METAL-ARC, E70 ELECTRODE.																					
10) CONCRETE COMPRESSIVE STRENGTH: f'c = 3,000 PSI @ 28 DAYS																					
11) REINFORCEMENT MINIMUM YIELD STRENGTH: fy = 60,000 PSI																					
12) CONCRETE MASONRY UNITS: SHALL CONFORM TO ASTM C90 GRADE A.																					
13) GROUT COMPRESSIVE STRENGTH: 2500 PSI @ 28 DAYS																					
14) MORTAR: SHALL CONFORM TO ASTM C270, TYPE S.																					
15) PLACE 2 #4'S ON EACH SIDE OF DOOR OPENING.																					
16) GROUT CELLS ONLY WITH REBAR IN MASONRY WALLS. FILL OTHER CELLS WITH VERMICULITE INSULATION.																					
17) ALL METAL DECK JOINTS, OUTSIDE EDGES, & FASTENERS SHALL BE MADE WATER-TIGHT.																					
ARCHITECTURAL NOTES																					
1) DOOR: 36" x 80" x 1-3/4", 18 GAUGE HOLLOW METAL, FLUSH, RIGHT HAND REVERSE BEVEL.																					
2) FRAME: 36" x 80", 16 GAUGE PRESSED METAL, 6-3/4" x 2" JAMBS AND 6-3/4" x 4" HEAD. USE 3 MASONRY ANCHORS PER JAMB. DOOR AND FRAME BY FENESTRA, OR OTHER APPROVED. GROUT DOOR JAMB FULL.																					
3) THRESHOLD: 36" ALUMN., SEALED IN MASTIC.																					
4) HINGES: 1 1/2" PAIRS OF 4 1/2" x 4 1/2" BUTT STEEL, BALL BEARING WITH NON-REMOVABLE PINS.																					
5) LOCKSET: OUTSIDE KEYED KNOB, CYLINDER MORTISED, ENTRANCE TYPE & STRIKE. SARGENT HARDWARE, O.O.A.																					
6) FLOOR DRAIN: WADE NO. 1200-TD CAST IRON WITH FLANGE, INTEGRAL CLAMPING COLLAR, SEDIMENT BUCKET, AND GRATE.																					
ELECTRICAL KEYED NOTES																					
1) ROUTE TO EXISTING POWER PNL "P" IN MAIN BLDG. VIA NEW 3/4" C, 3#8, #14GND, BURIED IN SAME TRENCH W/COMPRESSORS POWER WIRING.																					
2) INCANDESCENT, VAPOR TIGHT, WALL MOUNTED LIGHT FIXTURE W/100-A23 LAMP. APPLETON #VPM-10506 OR EQUIVALENT. MOUNTING HEIGHT +8'-0" AFF.																					
3) LIGHT SWITCH, WEATHERPROOF, LEVITON #1432.																					
4) PROVIDE NEW 480-240/120V, 10KVA, DRY TYPE, WALL MTD TRANSFORMER, 20P-30A MAIN C.B., 1-2P-30A BRANCH C.B. & 6-1P-20A BRANCH C.B.'S																					
BOVAY ENGINEERS, INC. ALBUQUERQUE MUSKOGEE • SPRING • AUSTIN • BATON ROUGE																					
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION																					
TITLE: SURGE VALVE PIT - SECTIONS & DETAILS																					
PHASE I REHABILITATION STORM WATER PUMPING STATIONS BROADWAY STATION NO 31																					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE																
City Engineer	W. J. Lee	1/10/82	Liquid Waste	B. R. Lee	1-17-82																
ACE-Design	W. J. Lee	1/29/82	Traffic	N/A DAP	1/29/82																
ACE-Hydrology	W. J. Lee	1/29/82	Water	N/A AR	1-29-82																
DRAWING NO. 1647		MAP NO. J-14		SHEET 4		OF 18															

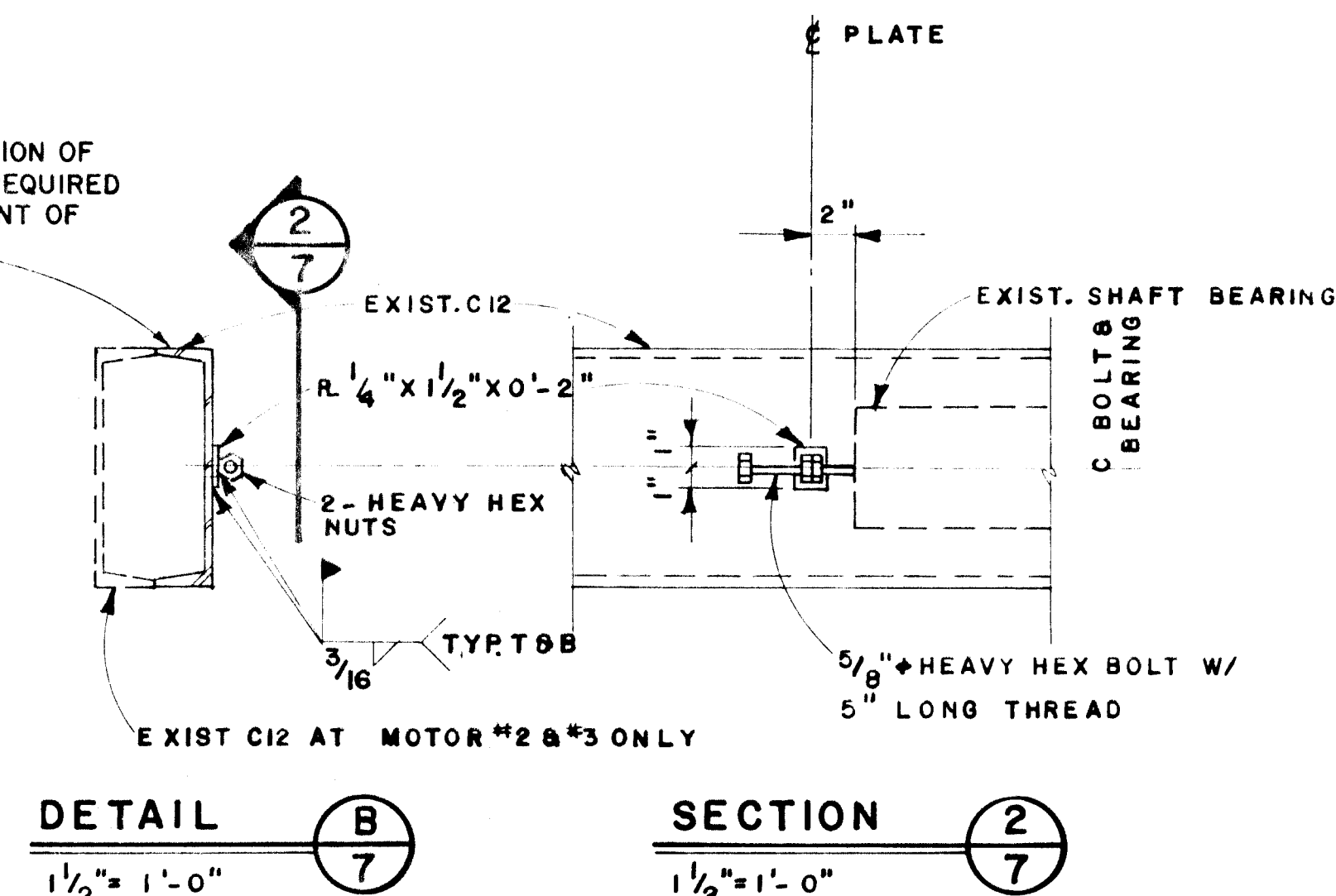
RECORD DRAWING

BOVAY ENGINEERS, INC. ALBUQUERQUE HOUSTON • SPRING • AUSTIN • DALLAS			
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION			
TITLE: SURGE VALVE PIT - SECTIONS & DETAILS PHASE I REHABILITATION STORM WATER PUMPING STATIONS BROADWAY STATION NO. 31			
APPROVALS	ENGINEER	DATE	APPROVALS
City Engineer	<i>[Signature]</i>	2/10/62	Liquid Waste
A.C.E.-Design	<i>[Signature]</i>	1/29/62	Traffic
Hydrology	<i>[Signature]</i>	1/29/62	Water
DESIGNED BY	DATE	C.M.	DATE
DRAWN BY	DATE	D.M.R.	DATE
CHECKED BY	DATE	S.F.F.	DATE
DRAWING NO. 1647		MAP NO. J-14	SHEET 4 OF 18



DRAWING NO.	1647	MAP NO.	J-14	SHEET	5	OF	18
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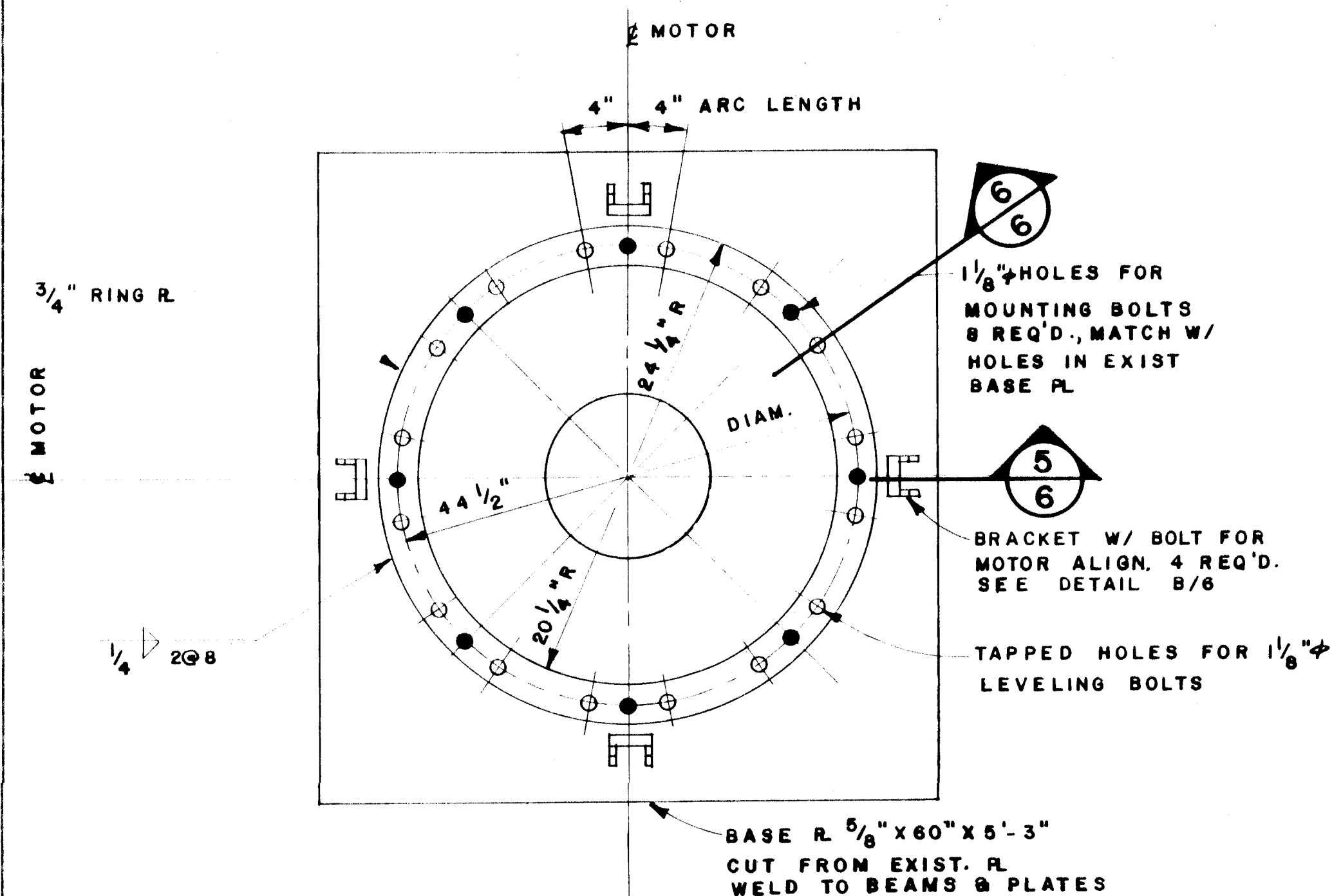




FRAMING PLAN-DETAIL

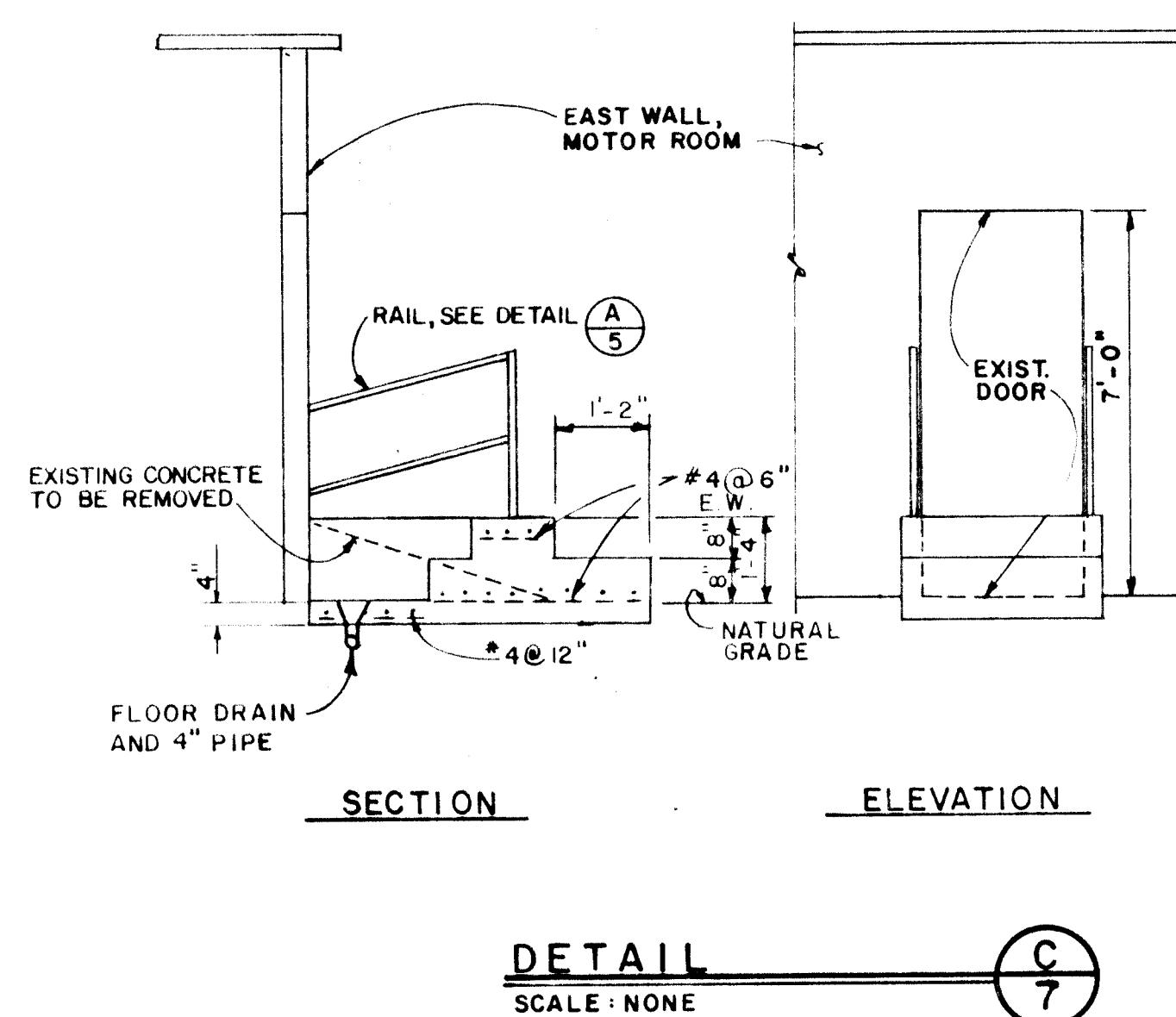
$\frac{1}{2}" = 1'-0"$

A
7

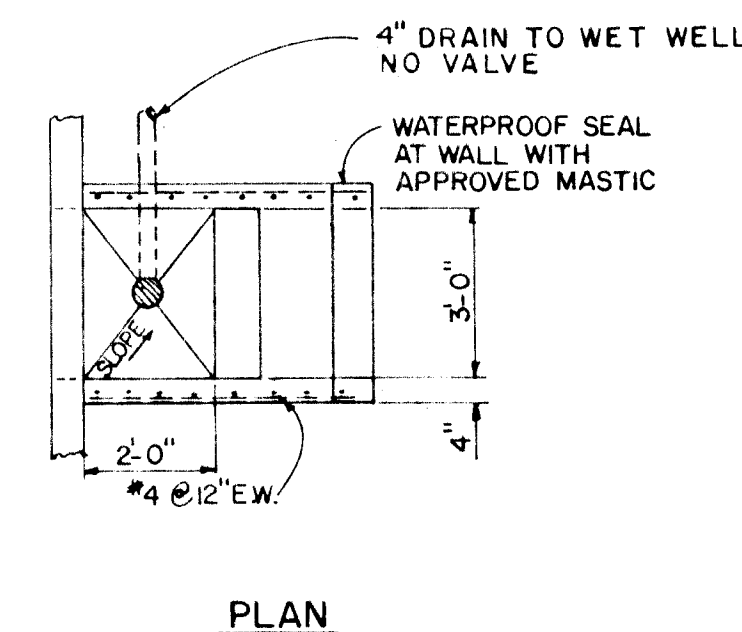


PUMP MOTOR BASE PLATE #5

1" = 1'-0"



DETAIL _____ (C)
SCALE: NONE 7



PLAN



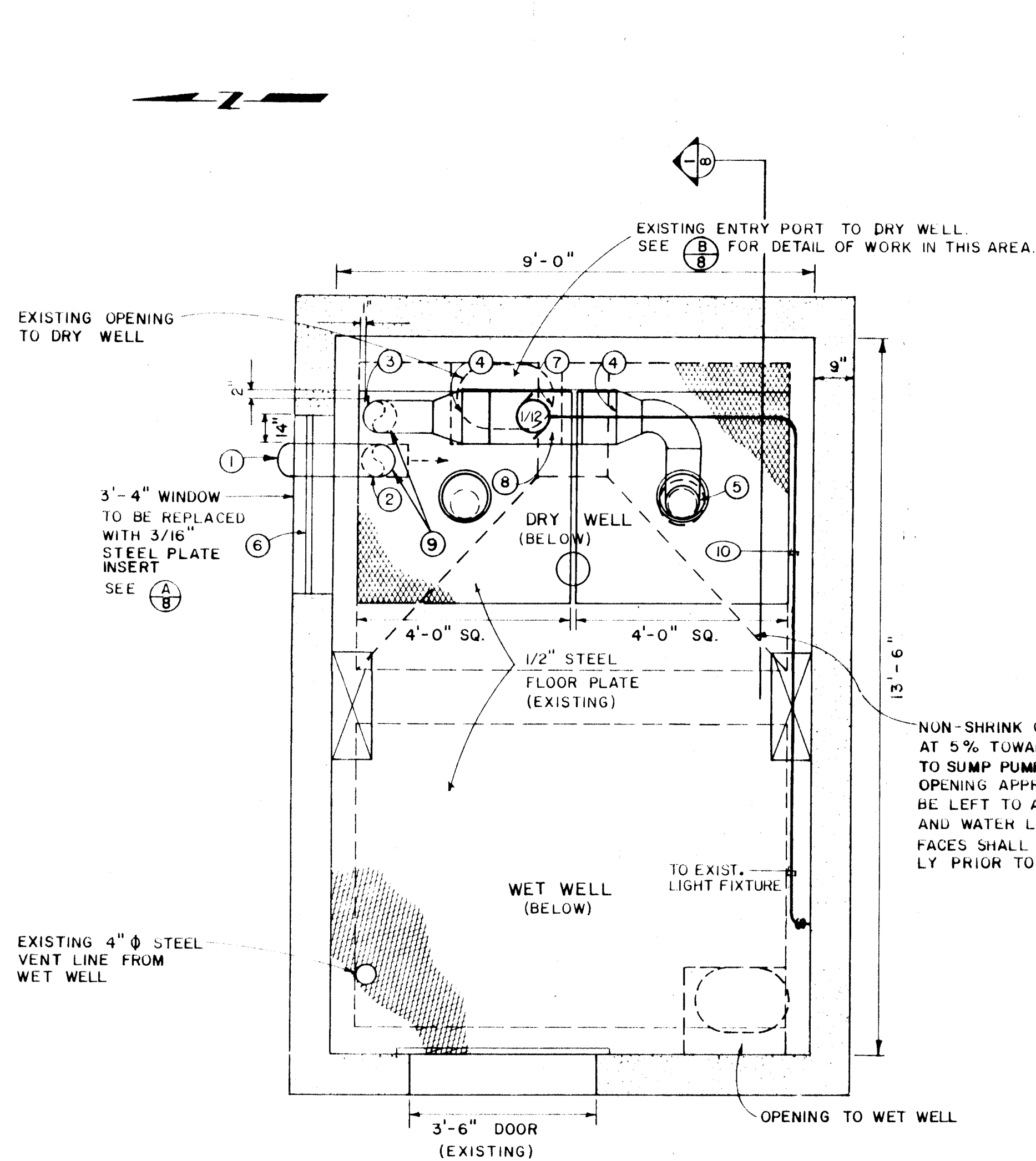
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE:	FRAME AND PEDESTAL DETAILS
	PHASE I REHABILITATION
	STORM WATER PUMPING STATIONS
	BROADWAY STATION NO.31

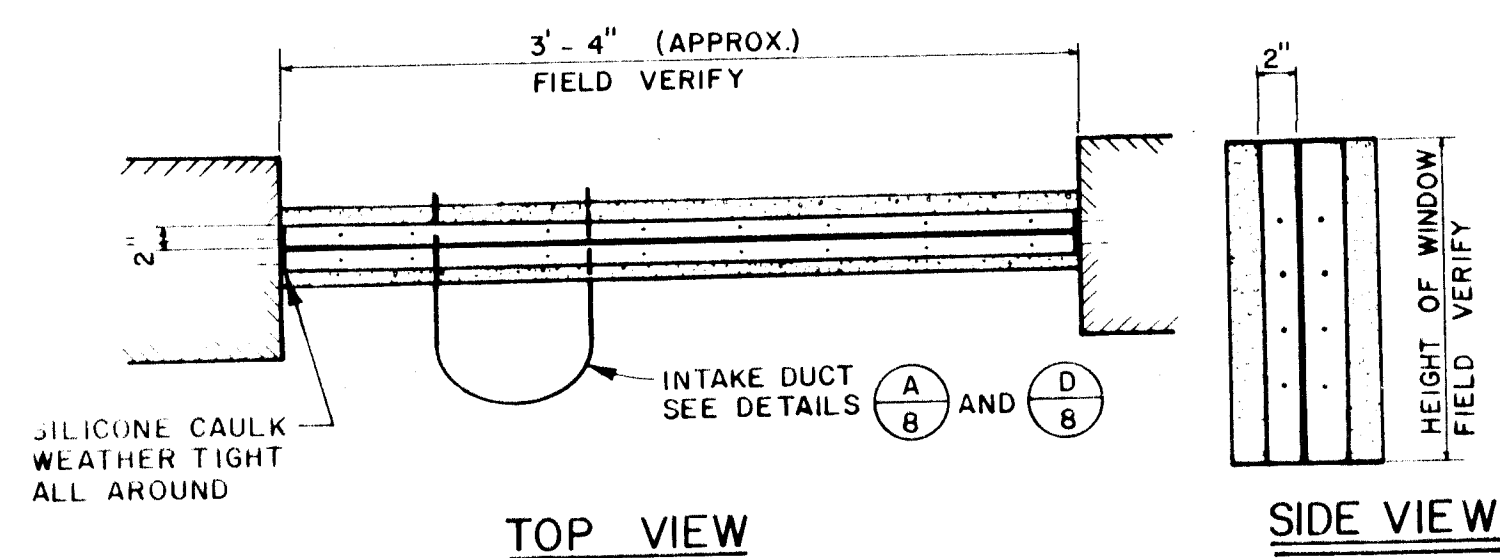
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	2/19/86	Liquid Waste	<i>[Signature]</i>	1-29-86
AEE-Design	<i>[Signature]</i>	1/29/86	Traffic	N/A DAP	1/29/86
AEE-Hydrology	<i>[Signature]</i>	1/29/86	Water	N/A BR	1/29/86

DRAWING NO. 1647	MAP NO. J-14	SHEET 7 OF 18
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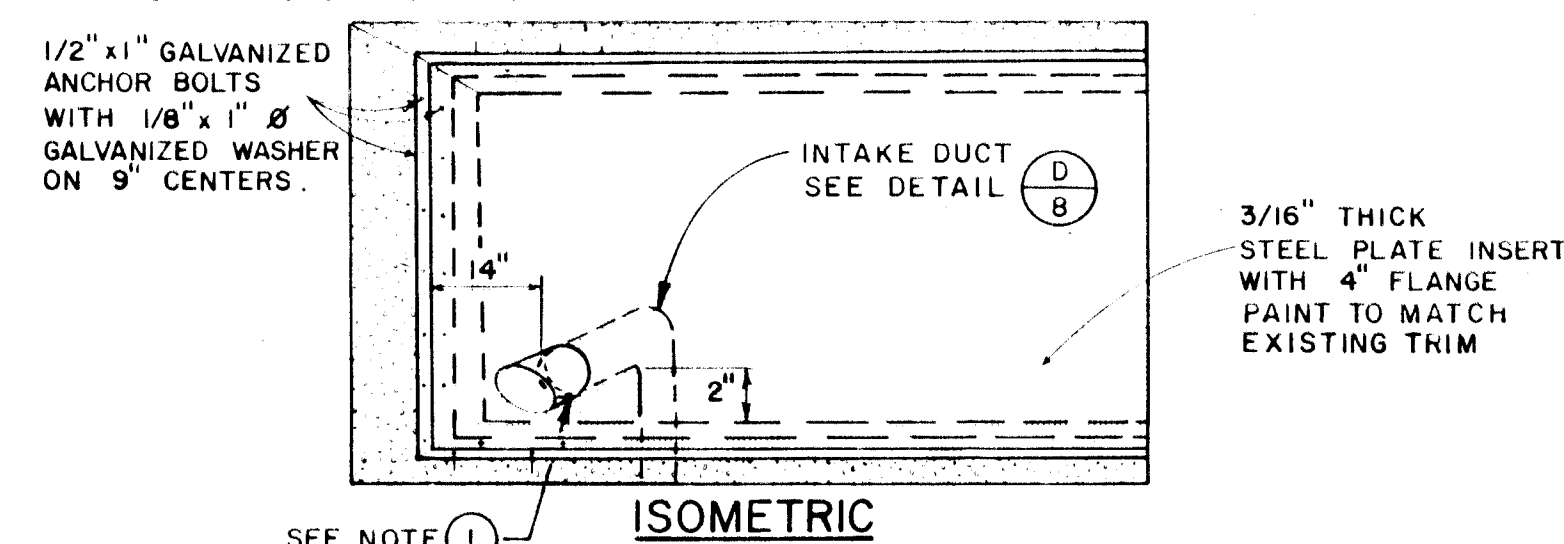


MOTOR ROOM FLOOR PLAN
SCALE: 1/2" = 1'-0"

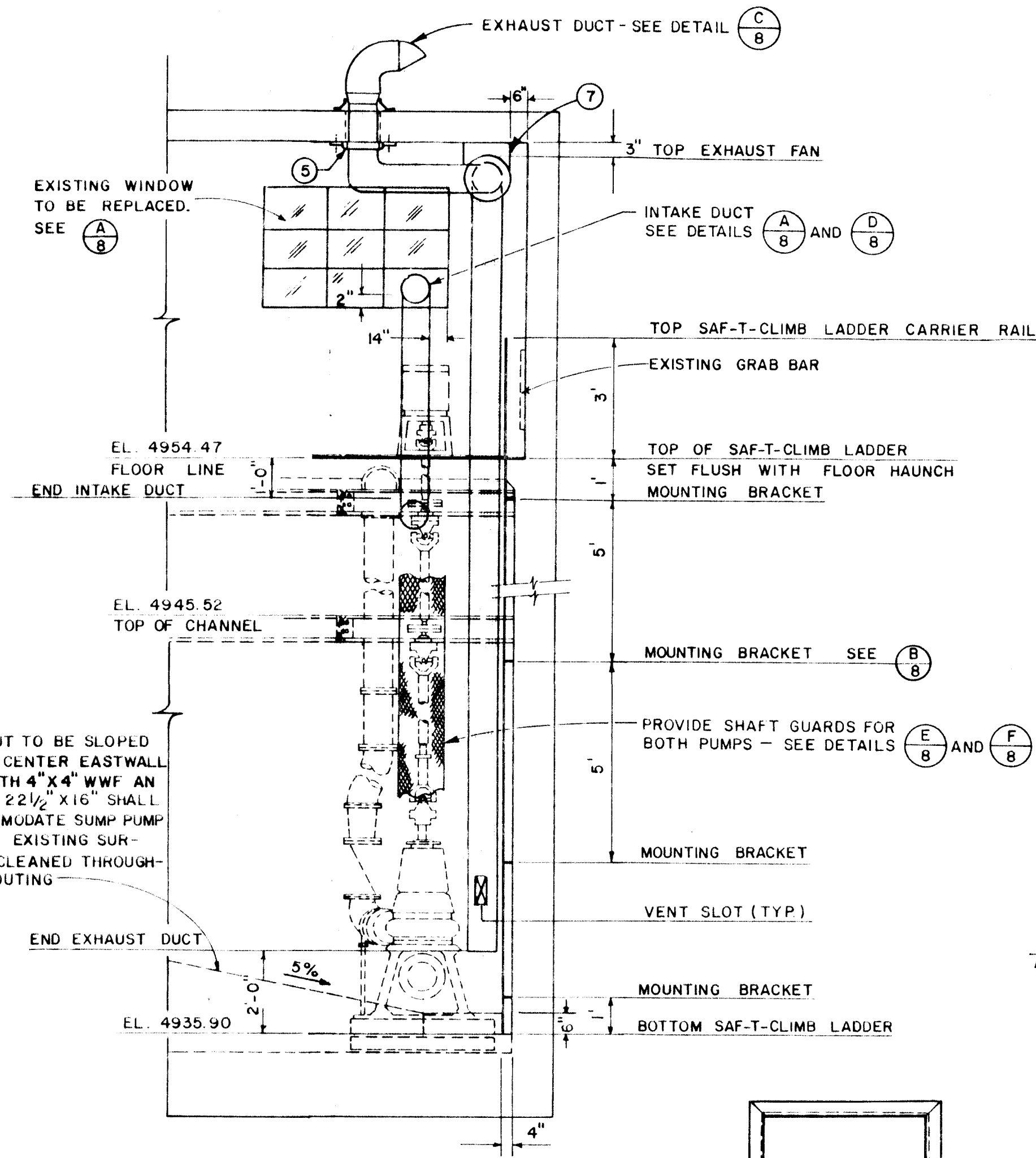
NOTE: PLANS SHOWN ARE FOR CENTRAL UNDERPASS #27. TIJERAS UNDERPASS #26 IS A MIRROR IMAGE OF CENTRAL UNDERPASS #27. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE CONSTRUCTION AT BOTH PUMPING STATIONS.



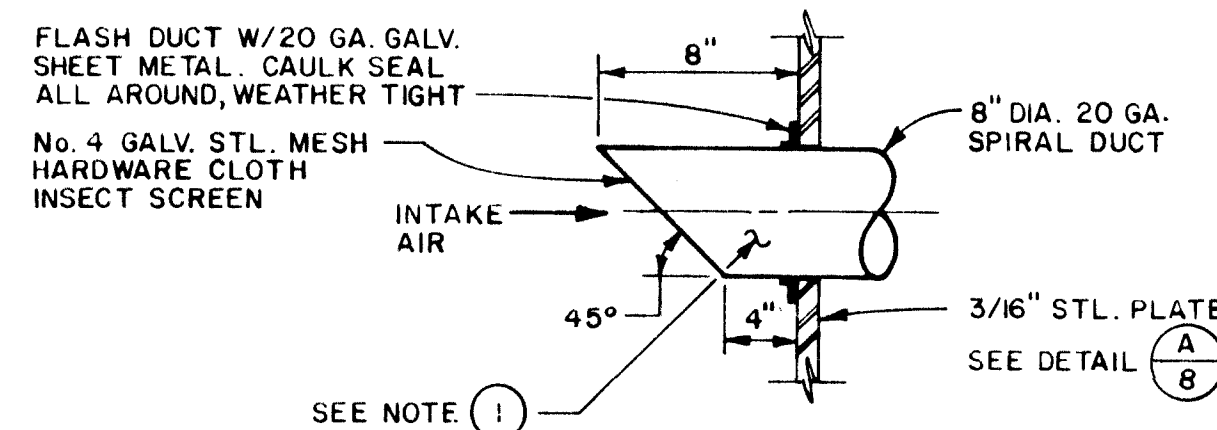
NOTE: CONTRACTOR IS TO VERIFY SILL DIMENSIONS PRIOR TO PLATE FABRICATION. WINDOW IS TO BE REMOVED AND PLATE IS TO BE INSTALLED AT SAME TIME. AT NO TIME IS STATION TO BE ACCESSIBLE TO PUBLIC.



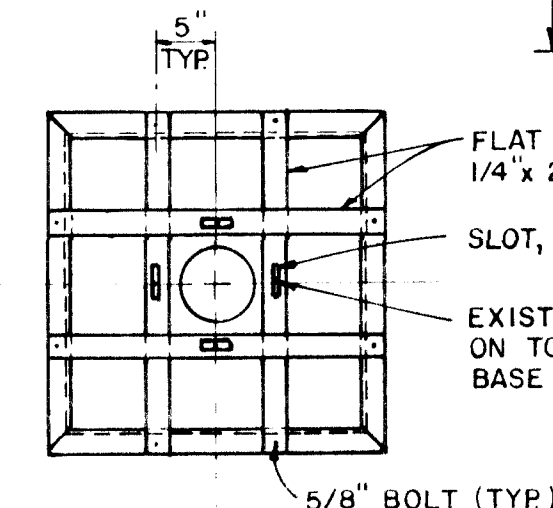
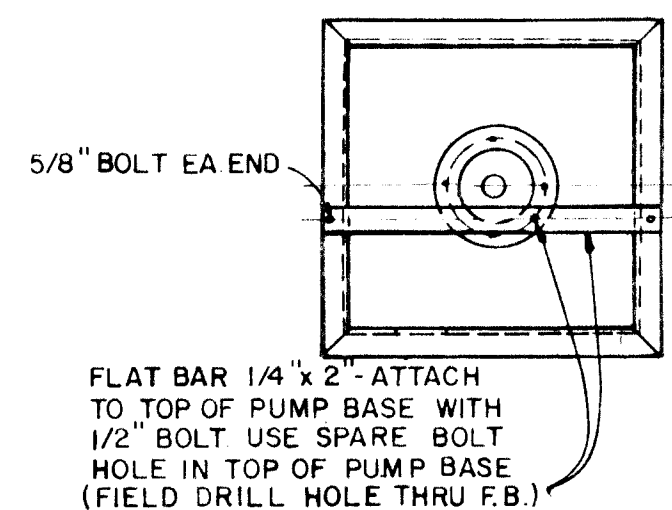
WINDOW INSERT (A)
SCALE: NONE



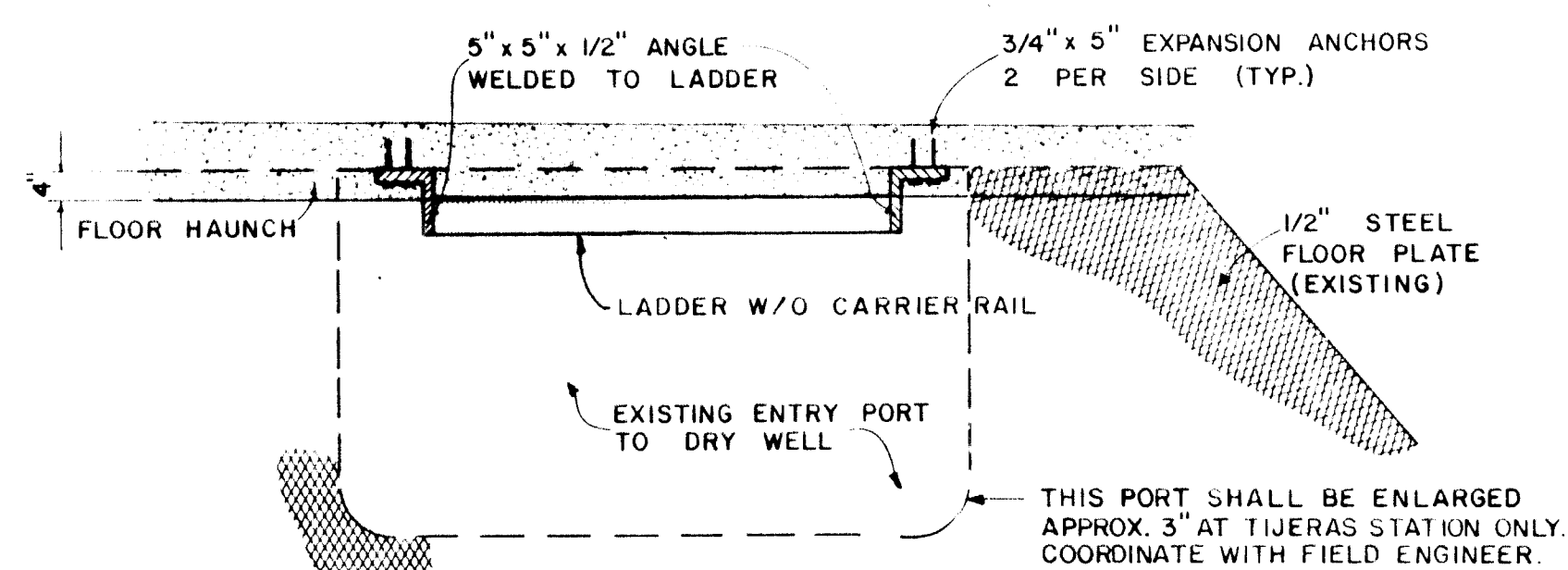
SECTION I-I
SCALE: 3/8" = 1'



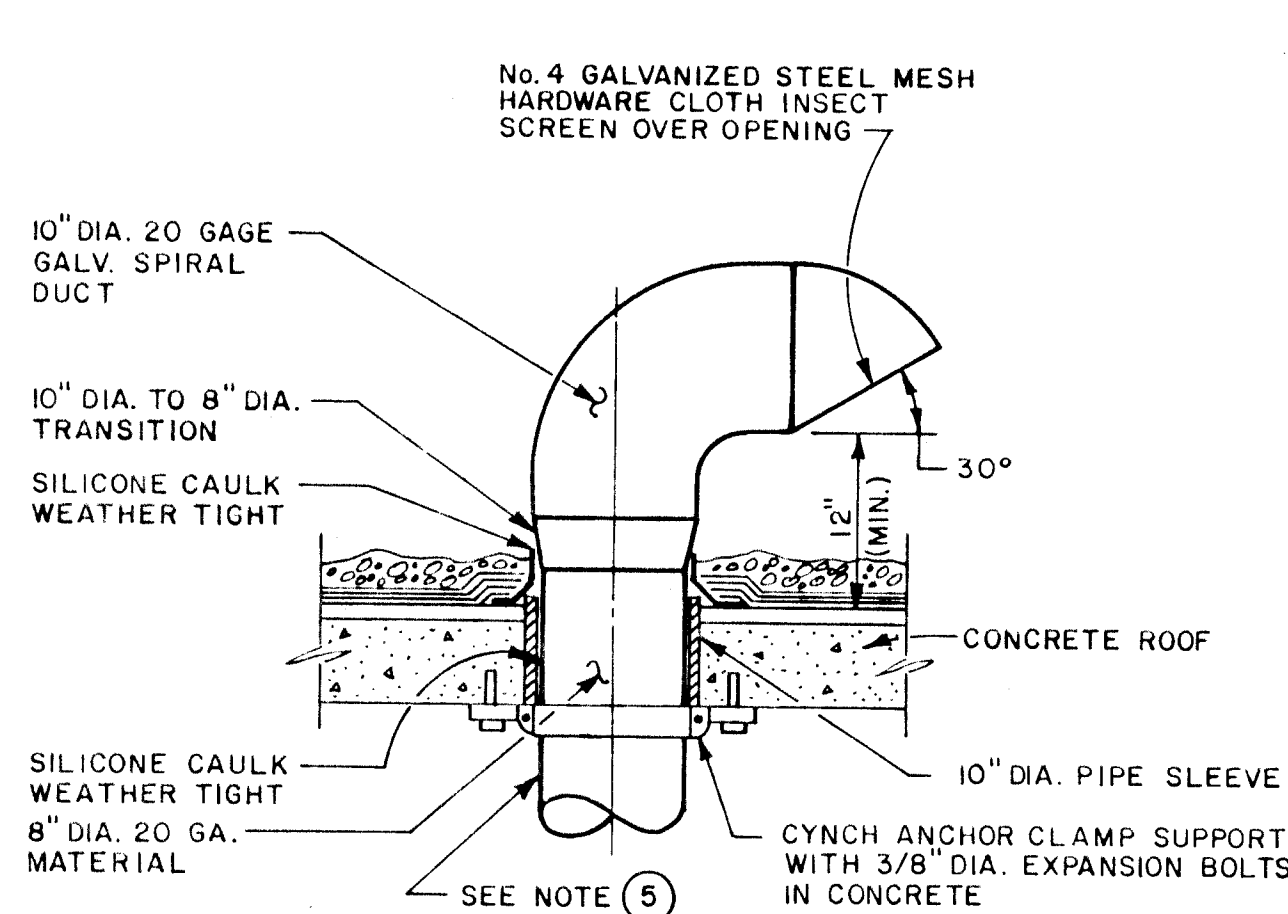
INTAKE DUCT (D)
SCALE: NONE



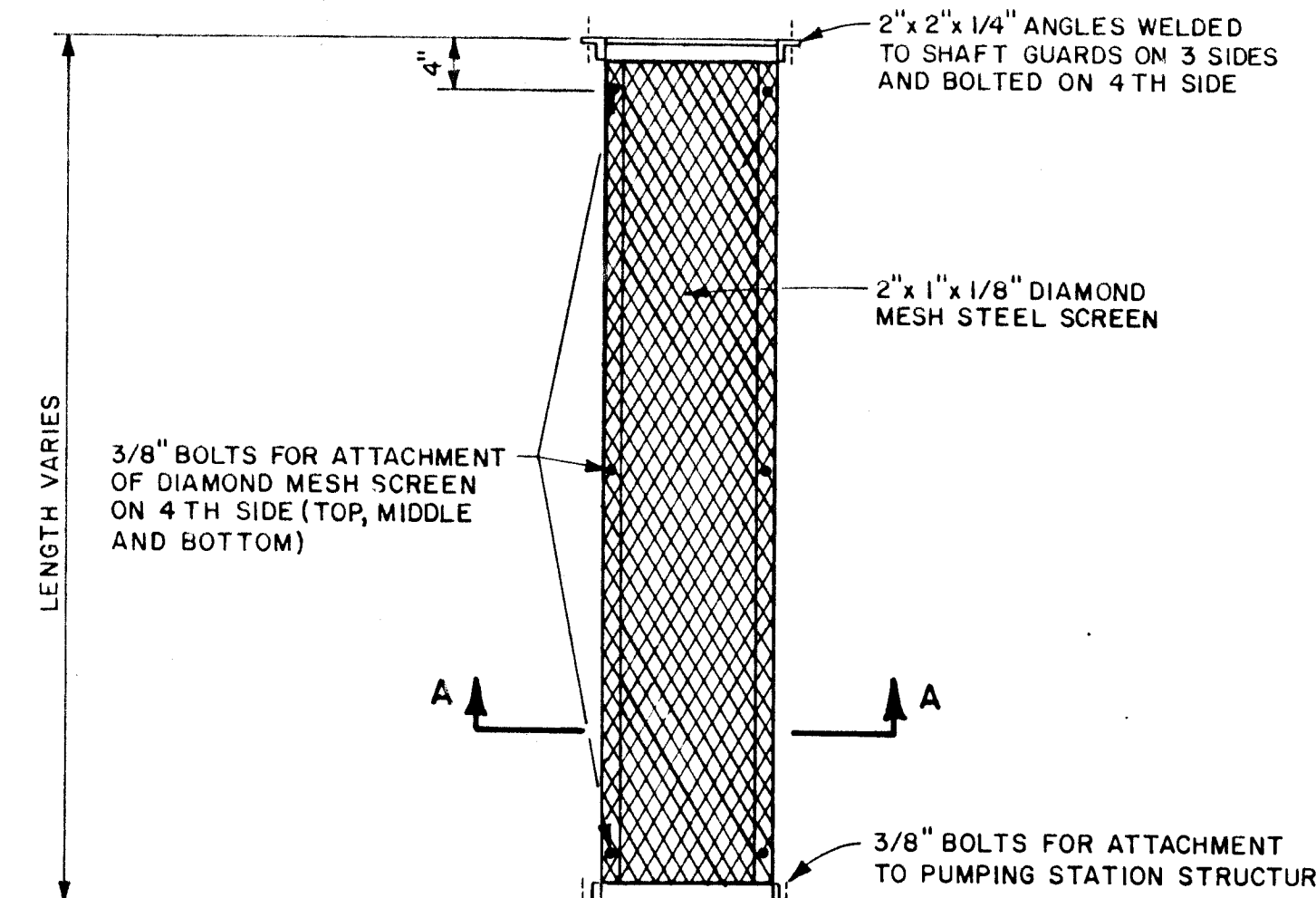
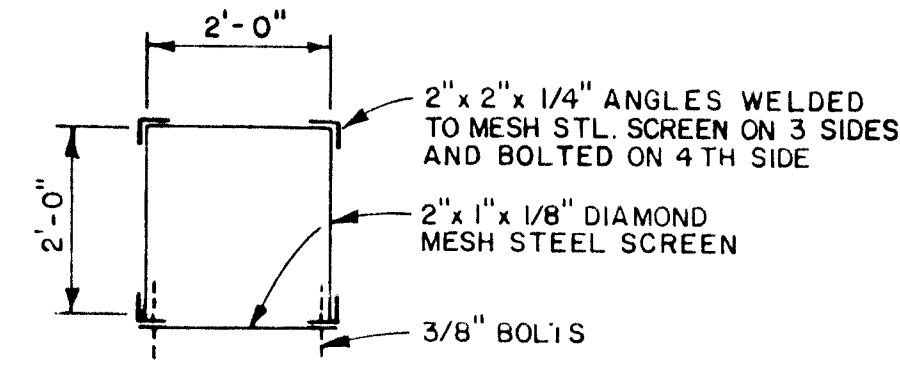
SECTION B-B



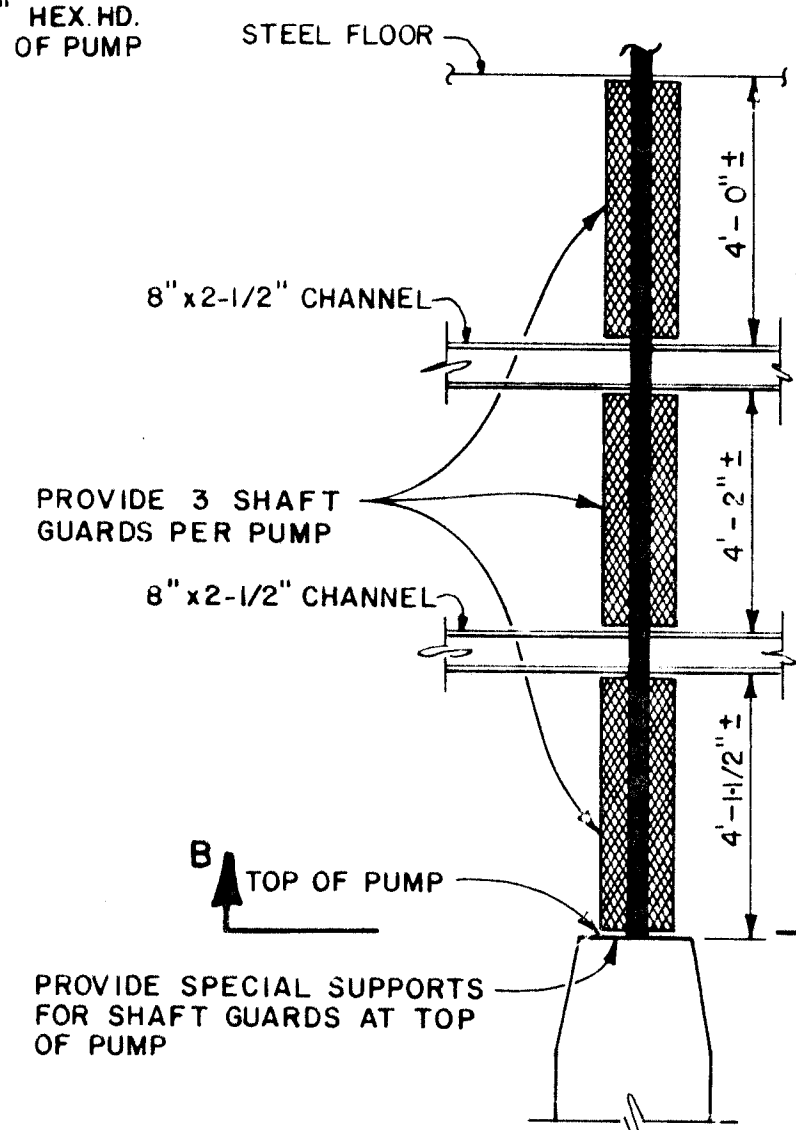
ENTRY PORT AND MOUNTING BRACKET (B)
SCALE: NONE



EXHAUST DUCT (C)
SCALE: NONE



SHAFT GUARD (E)
SCALE: NONE



SHAFT GUARD LENGTHS (F)
SCALE: NONE

MECHANICAL KEYED NOTES

- 8" FRESH AIR INTAKE DUCT. CUT BOTTOM OF DUCT BACK AT AN ANGLE TO PREVENT INTAKE OF RAIN. INSTALL AN ANGLE RING & INSET SCREEN AT INLET. INTAKE DUCT TO ENTER BUILDING THROUGH NEW WINDOW STEEL PLATE INSERT.
- 8" FRESH AIR INTAKE DUCT TO DROP THROUGH EXISTING 1/2" STEEL FLOOR AT GRADE LEVEL. DUCT TO THEN DISCHARGE HORIZONTALLY 12" BELOW FLOOR.
- 8" FRESH AIR INTAKE DUCT TO RISE FROM OPEN END AT 24" ABOVE DRY WELL FINISHED FLOOR UP THROUGH EXISTING 1/2" STEEL FLOOR AT GRADE LEVEL TO CEILING LEVEL THEN ELBOW TO HORIZONTAL AS SHOWN. INSTALL A MANUAL BALANCING DAMPER IN VERTICAL SECTION 24" BELOW STEEL FLOOR. DAMPER TO HAVE LOCKING QUADRANT.
- 8" FRESH AIR INTAKE DUCT TO 14" DIA. TRANSITION. CONNECTIONS TO FAN TO HAVE FLEXIBLE CONNECTIONS.
- 8" FRESH AIR INTAKE DUCT TO RISE UP THROUGH EXISTING 10" DIA. PIPE OPENING IN ROOF. INSTALL A 10" DIA. GOOSENECK ON ROOF WITH ANGLE RING & INSET SCREEN AT OUTLET & WEATHER PROOF CAP OVER EXISTING OPENING.
- WINDOW REPLACEMENT SEE (A).
- SUSPEND EXHAUST FAN (B) FROM EXISTING CONCRETE ROOF WITH 3/8" DIA. THREADED RODS & VIBRATION ISOLATORS. SUSPEND RODS FROM UNISTRUT SECURED TO ROOF WITH 3/8" DIA. WELDS. RELOCATE EXISTING RECEIVER ANTENNA TO AVOID DUCT WORK.
- EXHAUST FAN. SEE SPEC. SECTION 621 PART 621.07.
- STEEL FLOOR PENETRATIONS. CUT A SMOOTH 10" DIA. CIRCLE IN THE 1/2" STEEL FLOOR IN THE TWO LOCATIONS SHOWN.
- CONNECT NEW EXHAUST FAN MOTOR TO EXISTING LIGHT FIXTURES SWITCH LEG, SUCH THAT FAN IS ON WHEN LIGHTS ARE ON.

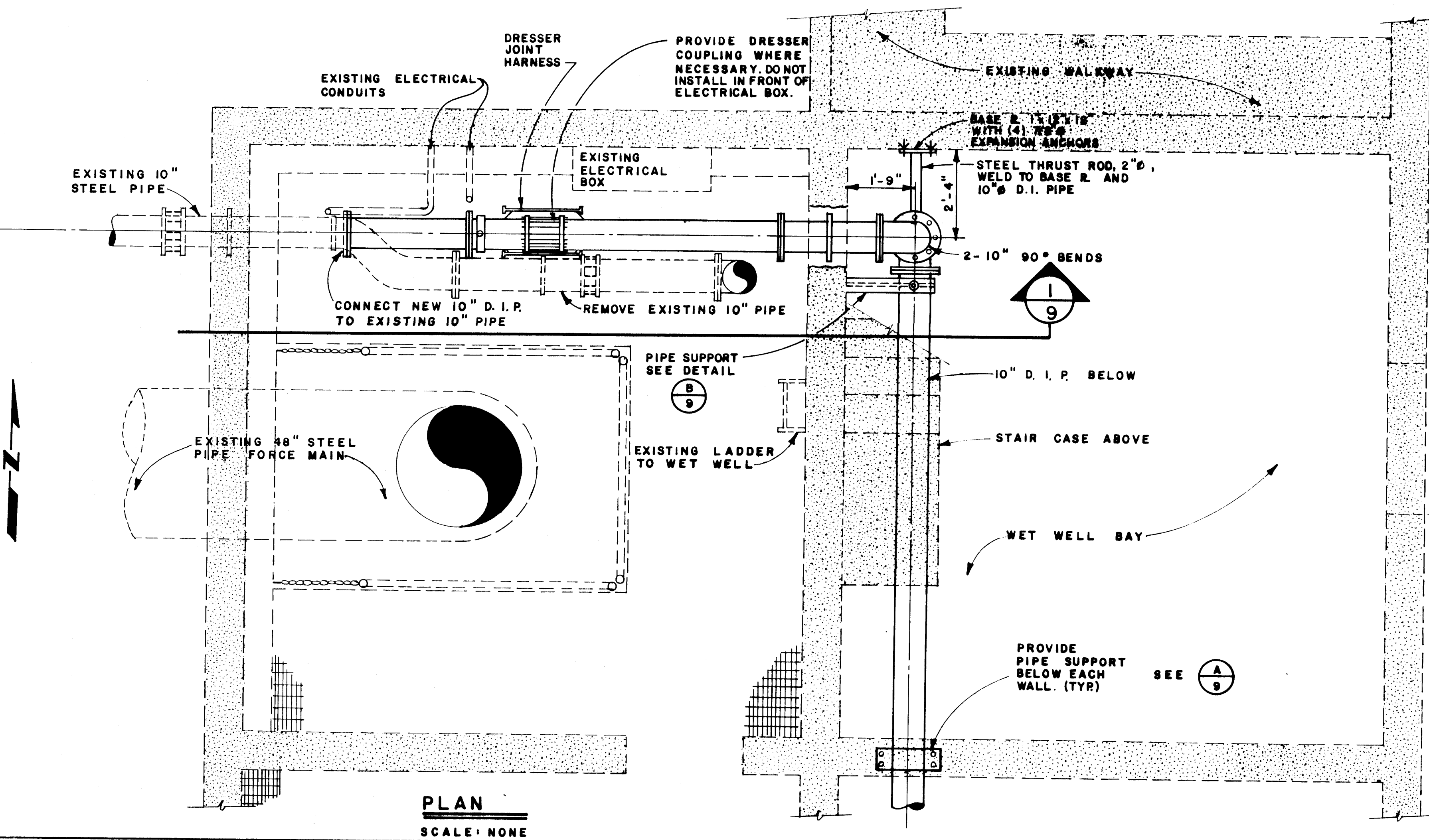
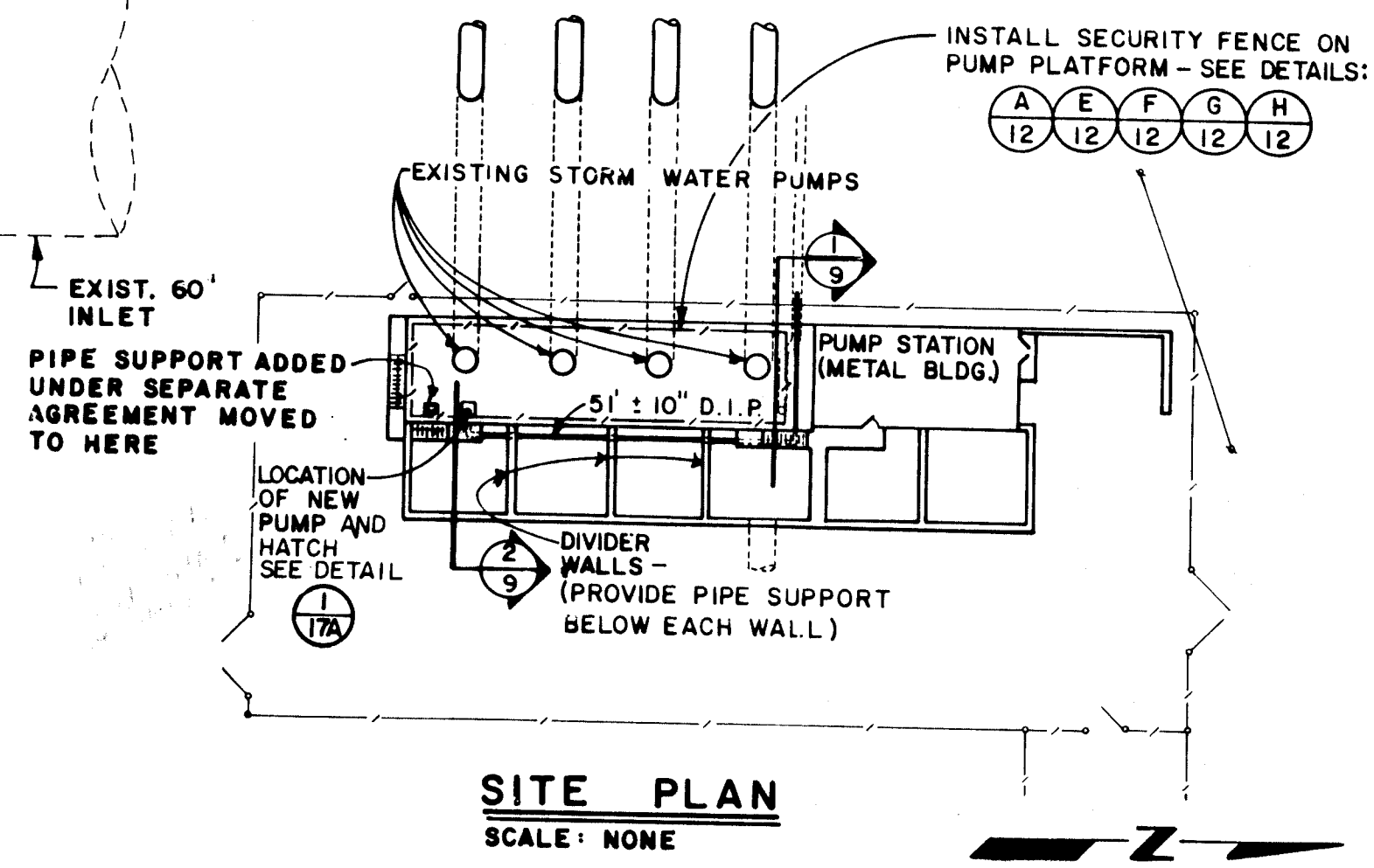
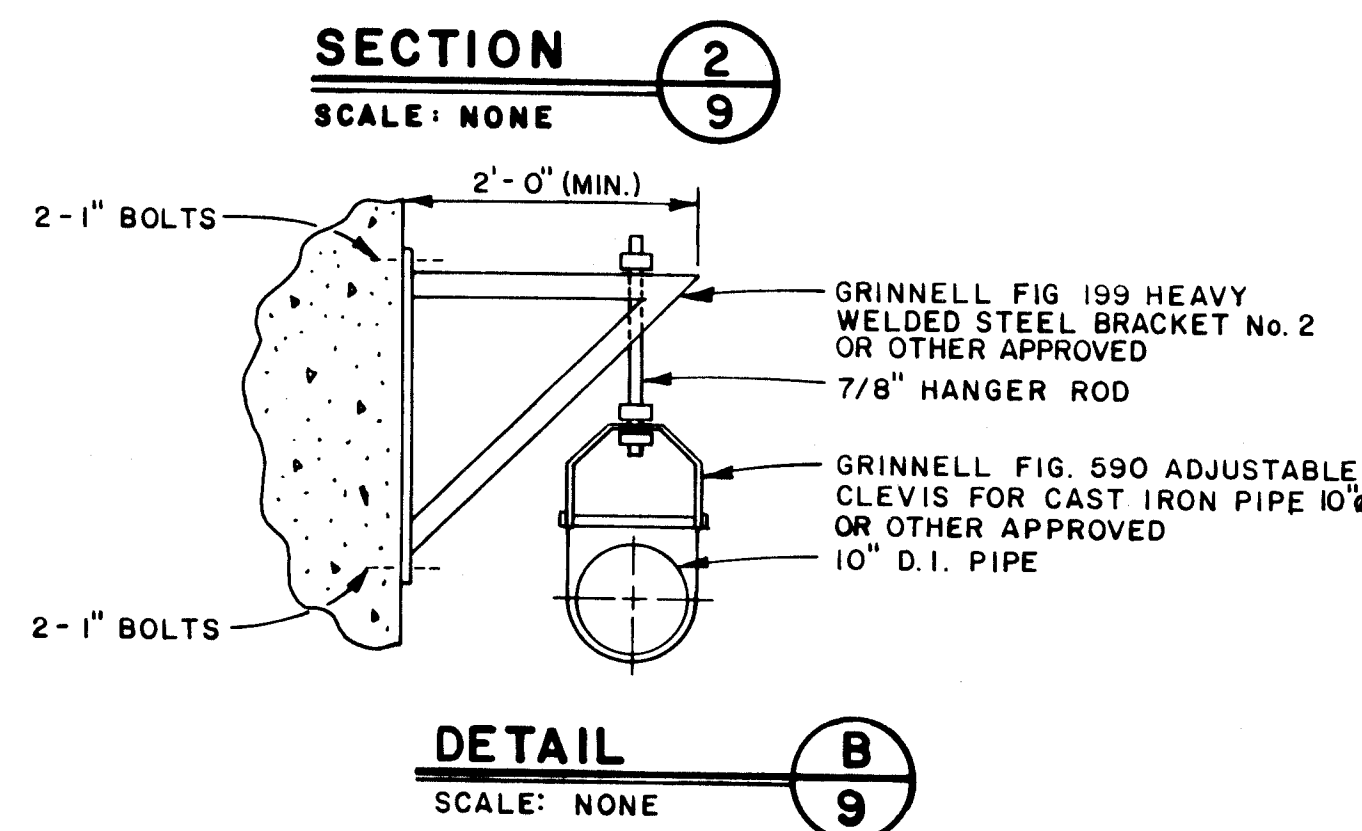
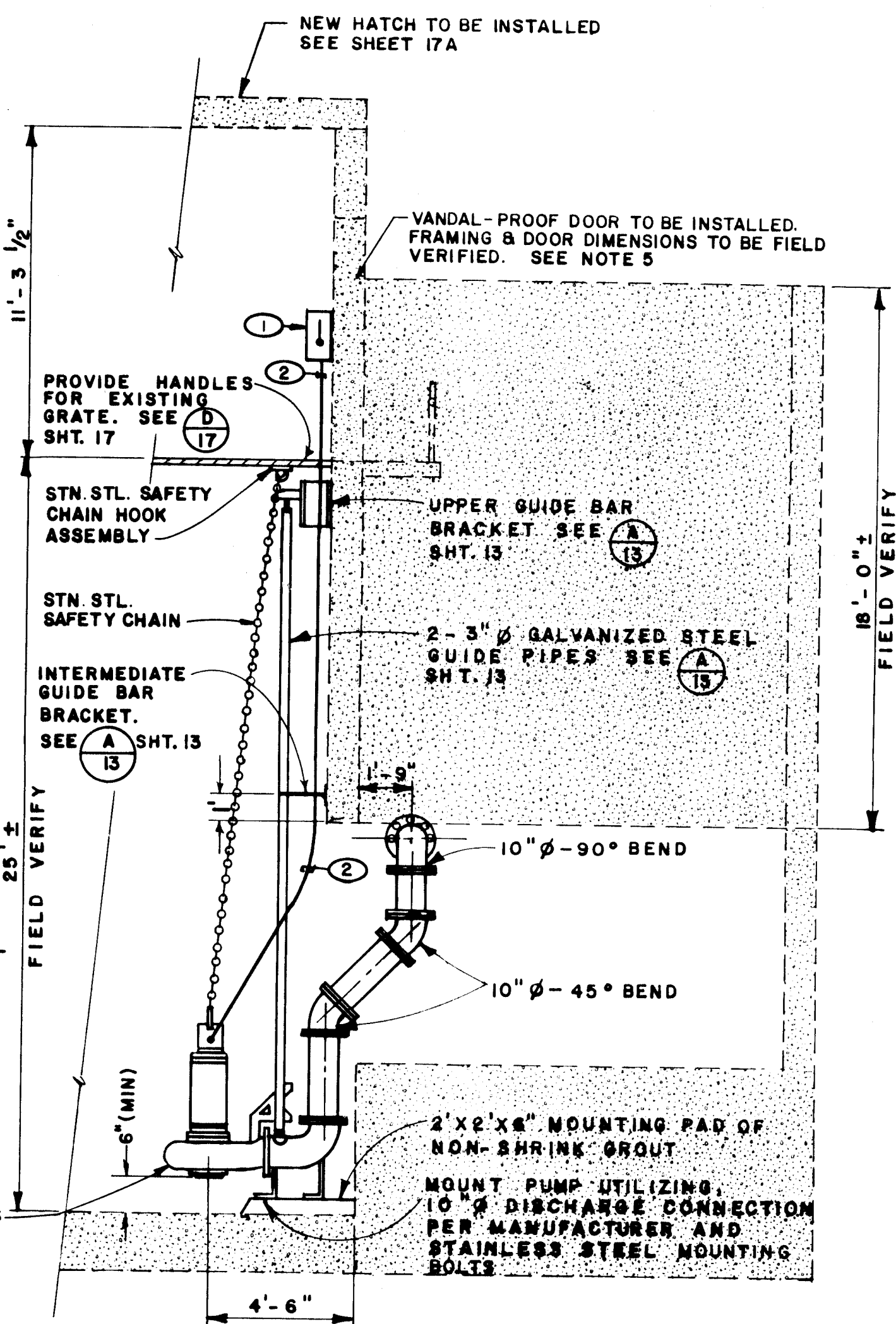
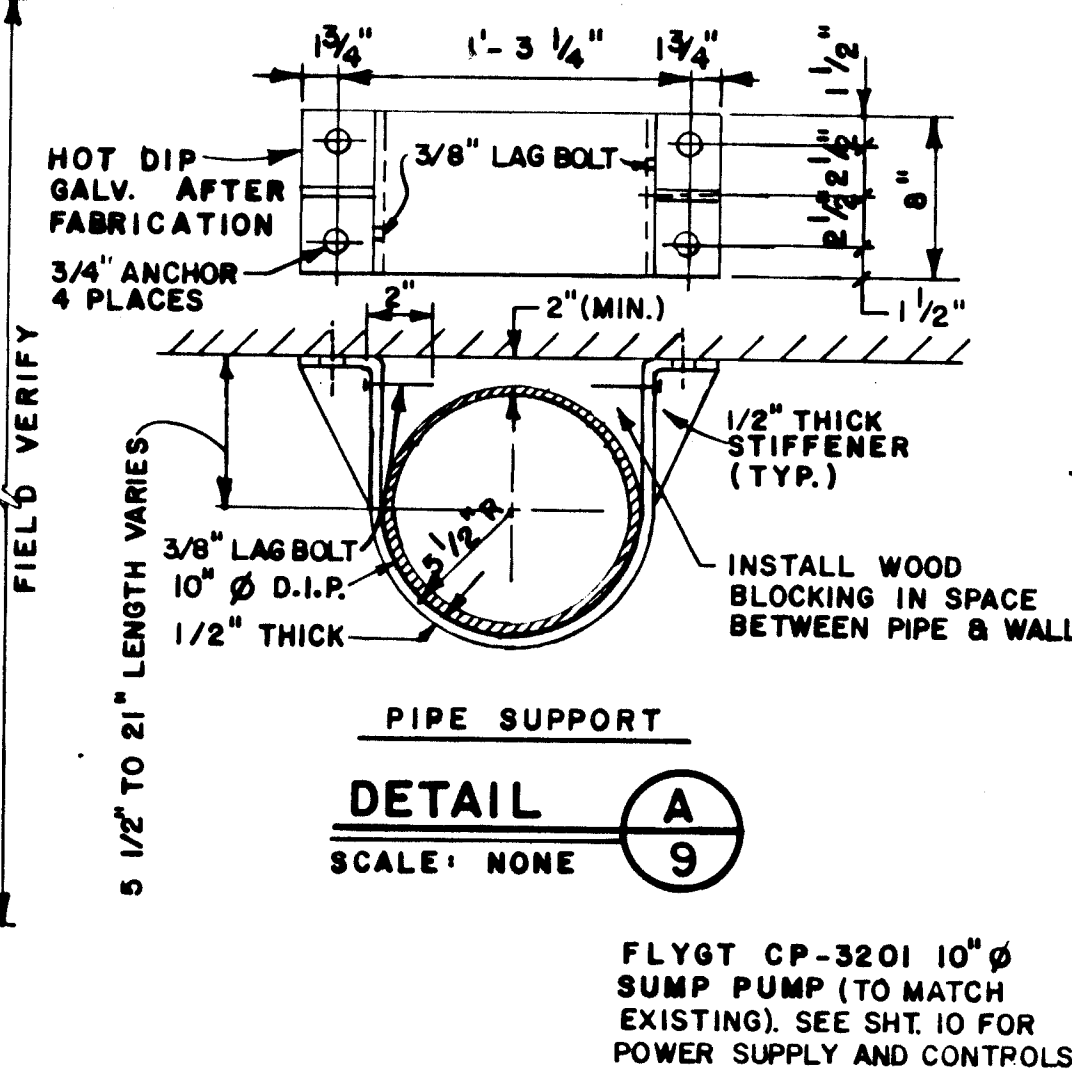
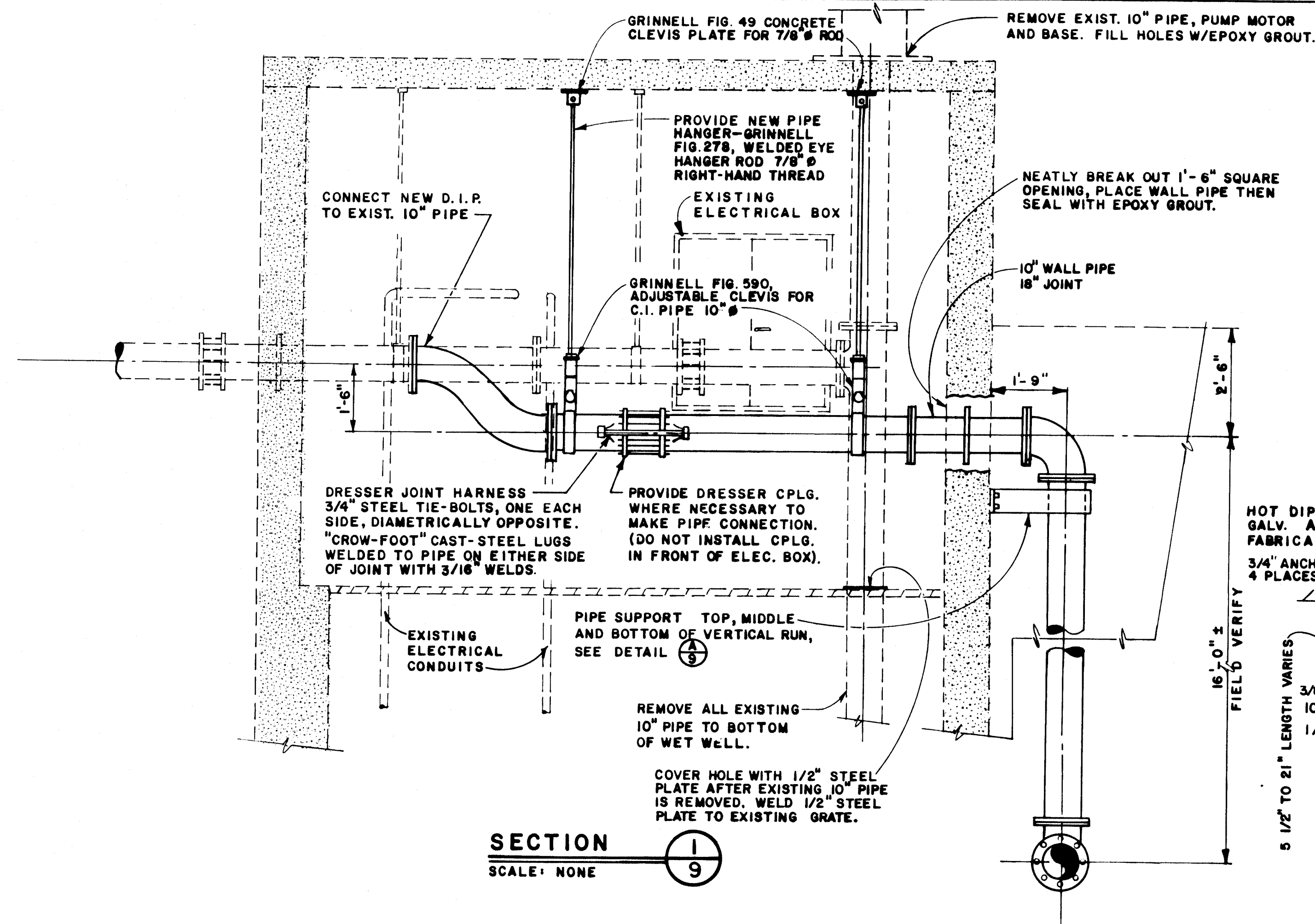
GENERAL NOTES

- CONTRACTOR IS TO REMOVE EXISTING STEPS INTO DRY WELL AND GROUT HOLES LEFT AFTER REMOVAL.
- LADDER IS TO BE 'SAF-T-CRIMP' LADDER AND CARRIER RAIL AS SUPPLIED BY NORTON COMPANY, OR AN APPROVED EQUAL.
- CONTRACTOR IS TO SUPPLY EACH STATION WITH 2 SAF-T-BELTS AND STORAGE HOOKS FOR USE WITH THE SAF-T-LADDER, OR APPROVED EQUALS.
- CONTRACTOR IS TO MAKE ALL NECESSARY PENETRATIONS NEATLY THROUGH STEEL FLOOR.

BOVAY ENGINEERS, INC.
ALBUQUERQUE
HOUSTON • SPOKANE • AUSTIN • DALLAS • MIAMI

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION			
TITLE: VENTILATION AND SAFETY RENOVATIONS			
PHASE: REHABILITATION - STORM WATER PUMPING STATIONS			
TIJERAS UNDERPASS STATION NO. 26 AND CENTRAL UNDERPASS STATION NO. 27			
APPROVALS	ENGINEER	DATE	APPROVALS
City Engineer	1/29/86	Liquid Waste	1/29/86
A.C.E. Design	1/29/86	Traffic	1/29/86
A.C.E. Hydrology	1/29/86	Water	1/29/86
DRAWING NO.	1647	MAP NO.	K-14
SHEET 8		OF 18	

RECORD DRAWING



OPERATION SEQUENCE (FOR CONTRACTOR'S INFORMATION ONLY)

EXISTING PUMPS
CONTRACTOR DOES NOT PROVIDE NEW EQUIPMENT FOR THIS ITEM. CITY WILL RE-SET LIQUID LEVEL CONTROLLERS TO NEW ELEVATIONS:

LEAD START SPEED 1	4925
LEAD START SPEED 2	4925.5
1st LAG START	4926
2nd LAG START	4927
3rd LAG START	4928
1st LAG STOP	4927
2nd LAG STOP	4926
LEAD STOP SPEED 2	4925.5
LEAD STOP SPEED 1	4925
	4924

SUMP PUMP
SUMP PUMP ON 4923
HIGH WATER ALARM 4928
SUMP PUMP OFF 4918

NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR WET WELL DE-WATERING WHEN NECESSARY FOR CONSTRUCTION AT THIS STATION. THIS IS INCIDENTAL TO CONSTRUCTION.
- STATION IS NOT TO BE TAKEN OUT OF SERVICE AT ANYTIME WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY.
- ALL MATERIALS REMOVED ARE INCIDENTAL TO THE CONSTRUCTION AND ARE TO BE DELIVERED TO A LOCATION DESIGNATED BY THE CITY.
- ALL NEW PIPING SHALL BE FLANGED.
- DOOR & FRAME SHALL BE 14 GAGE. THE DOOR SHALL BE TYPE F WITH A SINGLE RABBIT FRAME. ANCHORING SHALL BE BY CONTRACTOR AND VERIFIED BY ENGINEER. THE DOOR SHALL BE PROVIDED WITH HEAVY DUTY LOCKSET AND TAMPER-PROOF PINS.
- SUMP PUMP CAPABILITY SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION

KEYED NOTES

- NON FUSED DISCONNECT, NEMA 3R, 3P-60A, 480V.
- MOTOR POWER CABLE, SUPPLIED W/ PUMP, SUPPORT CABLE AT DISC. SW. W/ KELLUM CORD GRIP, TYPE 074-01, OR OTHER APPROVED.

RECORD DRAWING

BOVAY ENGINEERS, INC.
ALBUQUERQUE
HOUSTON • SPOKANE • AUSTIN • BATON ROUGE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **SUMP PUMP AND DETAILS**
PHASE I REHABILITATION
STORMWATER PUMPING STATIONS
BARELAS STATION NO. 32

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	2/10/02	Liquid Waste	<i>[Signature]</i>	1/21/06
A.C.E. Design	<i>[Signature]</i>	1/29/02	Traffic	<i>[Signature]</i>	1/20/06
A.C.E. Hydrology	<i>[Signature]</i>	1/29/02	Water	<i>[Signature]</i>	1/21/06

DRAWING NO. **1647** MAP NO. **L13, 14** SHEET **9** OF **18**

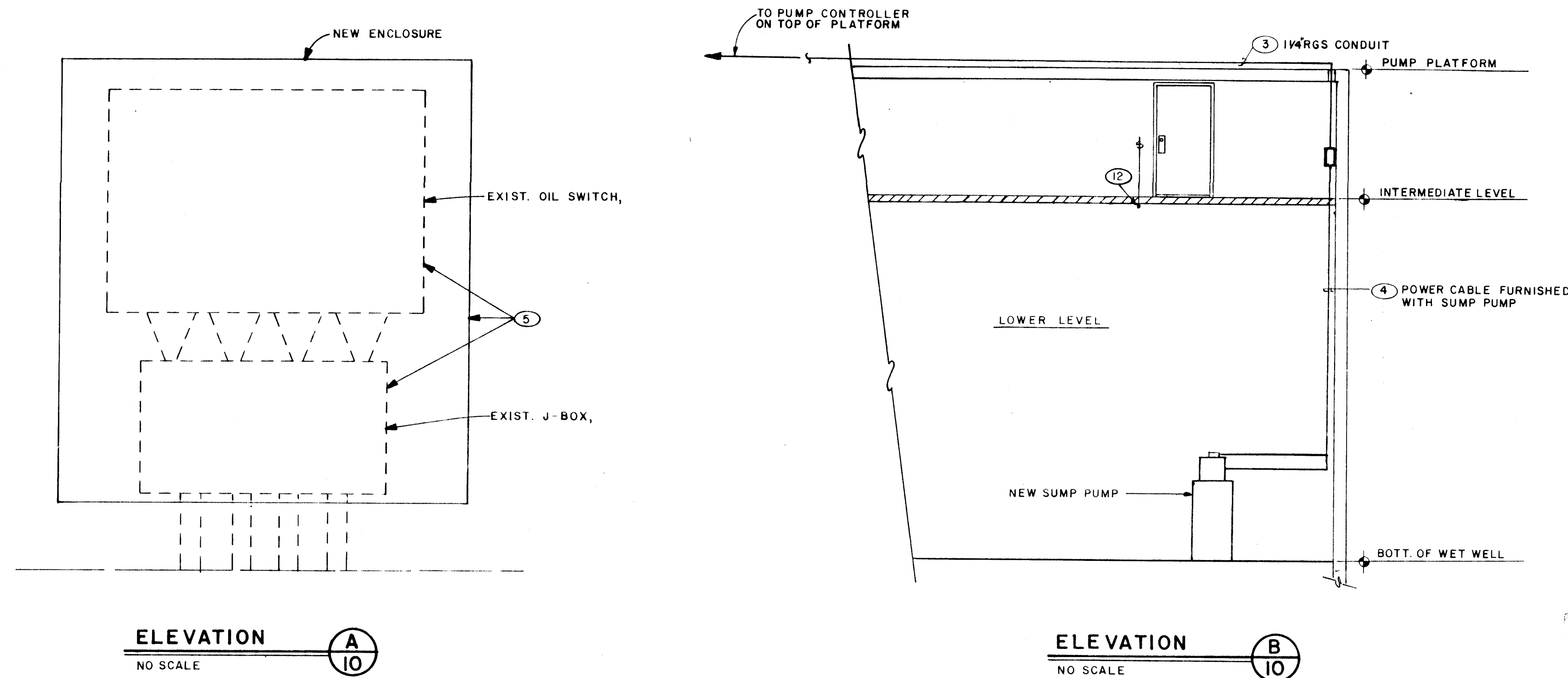
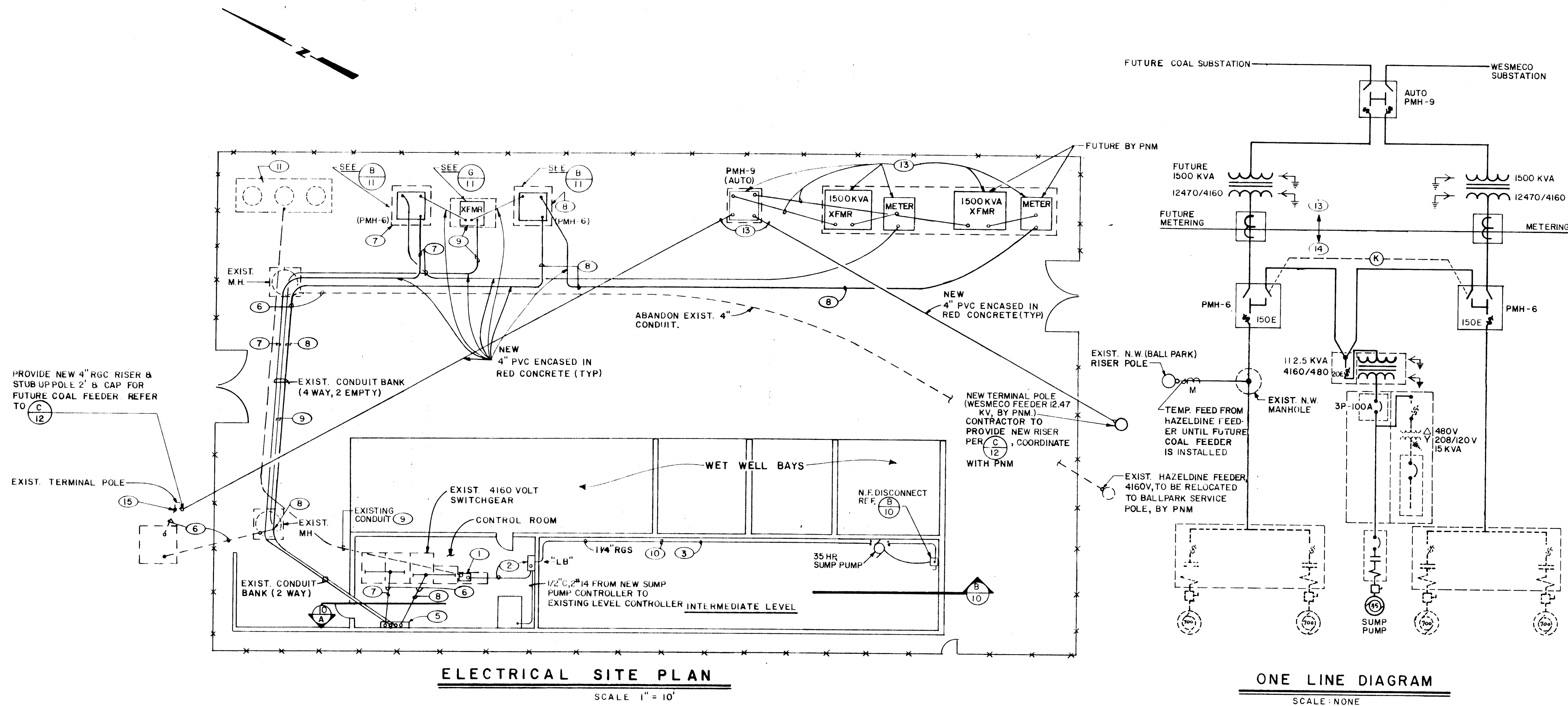
AS BUILT INFORMATION	CONTRACTOR	DATE
CONTRACTOR	<i>[Signature]</i>	4/5/02
INSPECTOR	<i>[Signature]</i>	4/5/02
ACCEPTANCE BY	<i>[Signature]</i>	4/5/02
VERIFICATION BY	<i>[Signature]</i>	4/5/02
CONTRACTOR'S INFORMATION		
RECORDED BY		
NO.		

BENCH MARKS	DATE	BY
" " CHISELLED INTO TOP OF CONCRETE WALL LOCATED AT THE N.E. CORNER OF THE NORTH WET WELL BAY. ELEV. = 4945.84		

SURVEY INFORMATION	DATE	BY

ENGINEER'S SEAL	DATE	BY

REVISIONS	DATE	BY
AS BUILT TO DATE	6/8/84	
NO. DATE	6/8/84	
DESIGNED BY M.G.	6/8/84	
DRAWN BY D.L.	6/8/84	
CHECKED BY S.F.	6/8/84	



REMOVAL AND CONSTRUCTION NOTES

- REMOVE EXISTING 400V, 30 MOTOR STARTER & REPLACE WITH 100A 400V, 3P CIRCUIT BREAKER. VERIFY COMPATIBILITY WITH EXIST. SWITCHGEAR. PROVIDE BLANK FILLER PANEL AS REQUIRED.
- 3 #2, 1 #8 GND, 1/2" CONDUIT FROM NEW CIRCUIT BREAKER TO NEW PUMP CONTROLLER, ROUTE OVERHEAD.
- INSTALL 1/4" RGS CONDUIT FROM PUMP CONTROLLER TO LOCAL DISCONNECT.
- INSTALL CABLE PROVIDED WITH PUMP, USE KELLUMGRIP AT DISC. TO SUPPORT CABLE TO PUMP MOTOR.
- REMOVE EXIST. OIL SWITCH & J-BOX. REPLACE WITH 48" x 48" x 24" DEEP NEMA 1 ENCLOSURE HOFFMAN #192-664 OR OTHER APPROVED.
- REMOVE EXISTING 500 MCM "HAZELDINE" FEEDERS FROM SOUTH RISER POLE VIA 2 MANHOLES, OIL SWITCH & J-BOX TO SWITCHGEAR. CUT & REMOVE EXISTING "BALLPARK" FEEDERS FROM N.W. MANHOLE TO SWITCHGEAR. TERMINATE EXISTING "BALLPARK" FEEDERS FROM METERING ENCLOSURE TO N.W. MANHOLE WITH ELASTIMOLD 650 LR RECEPTACLES WHERE CUT IN N.W. MANHOLE. REFER TO NOTE 8.
- INSTALL 3 #4/0, 5KV, SHLD. CU, 1 #2 GND FROM NORTH METERING ENCLOSURE VIA NEW PMH-6 SWITCH, 2 MANHOLES & NEW J-BOX TO NORTH BUS OF EXISTING SWITCHGEAR.
- INSTALL 3 #4/0, 5KV, SHLD. CU, 1 #2 GND FROM SOUTH METERING ENCLOSURE VIA NEW PMH-6 SWITCH, 2 MANHOLES & NEW J-BOX TO SOUTH BUS OF EXISTING SWITCHGEAR. IN N.W. MANHOLE, CUT NEW CABLES AND INSTALL ELASTIMOLD 650 LR SPICE CONNECT CABLES FROM MANHOLE TO MOTOR SWITCHGEAR TO EXISTING BALLPARK FEEDERS, (RELOCATED HAZELDINE FEEDER) REFER TO NOTE 8. INSTALL ELASTIMOLD DEAD-END PLUGS ON RECEPTACLES ON NEW CABLES FROM SOUTH PMH-6 TO N.W. MANHOLE. THESE CABLES WILL BE ENERGIZED WHEN FUTURE COAL FEEDER IS INSTALLED.
- INSTALL 3 #1/0, #6 GND IN 4" CONDUIT FROM NEW 112.5 KVA x FMR, VIA 2 MANHOLES, TO NEW 3P-100A CIRCUIT BREAKER IN EXISTING LOW VOLTAGE SWITCHBOARD.
- 3 #2, #8 GND, FROM NEW PUMP CONTROLLER TO NEW 3P-60A, N.F. DISC FOR PUMP POWER, 2 #14 FOR CONTROLLER INTERLOCK TO THERMAL SWITCHES (3) IN MOTOR WINDINGS.
- EXISTING TRANSFORMERS (3), PRIMARY AND SECONDARY CABLE, FUSED CUT OUTS, AND OTHER RELATED HARDWARE TO BE REMOVED AFTER CUT-OVER OF POWER FROM NEW XFMR.
- RELOCATE HORIZONTAL CONDUIT RUN BELOW GRATING TO LOWER LEVEL LIGHTS TO THE NORTH APPROX. 2' TO CLEAR REMOVABLE SECTION OF GRATING FOR PUMP REMOVAL.
- CONDUIT & PADS BY CONTRACTOR, EQUIPMENT & CONDUCTORS BY PNM.
- EQUIPMENT, CONDUIT & CONDUCTORS BY CONTRACTOR.
- EXISTING BALLPARK FEEDER, (4160V) TO BE REPLACED WITH THE RELOCATED HAZELDINE (4160V) FEEDER AFTER NEW WESMECO FEEDER IS INSTALLED AND ENERGIZED. IN THE FUTURE, PNM WILL REPLACE THE HAZELDINE FEEDER WITH THE COAL FEEDER (12,470V) CONTRACTOR SHALL COORDINATE WORK WITH PNM.

BOVAY ENGINEERS, INC.
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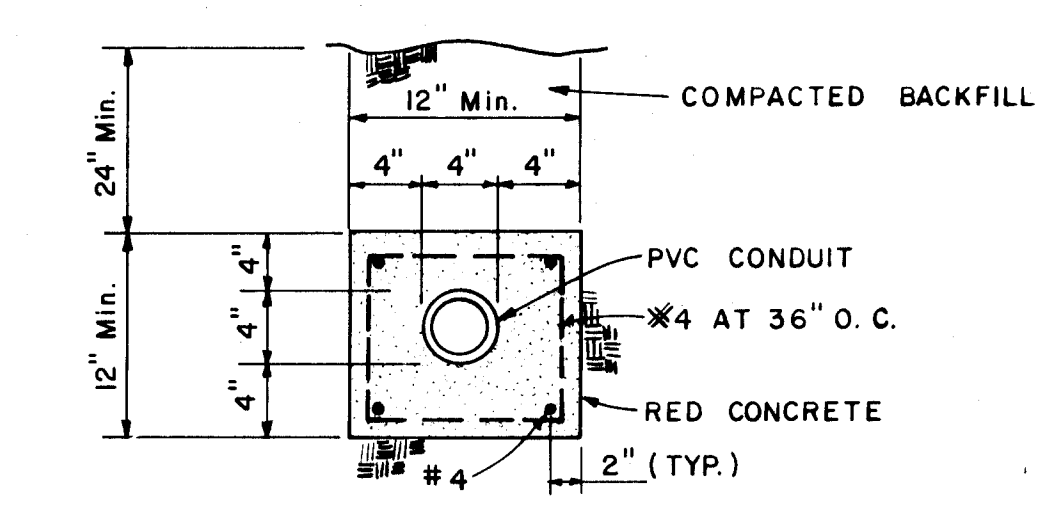
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: ELECTRICAL PLAN & ELEVATIONS
PHASE I ELECTRICAL RENOVATION
STORM WATER PUMPING STATIONS
BARELAS STATION NO. 32

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4/20/06	Liquid Waste	<i>[Signature]</i>	1/27/04
A.C.E. - Design	<i>[Signature]</i>	1/29/06	Traffic	<i>[Signature]</i>	1/29/06
A.C.E. - Hydrology	<i>[Signature]</i>	1/29/06	Water	<i>[Signature]</i>	1/29/06

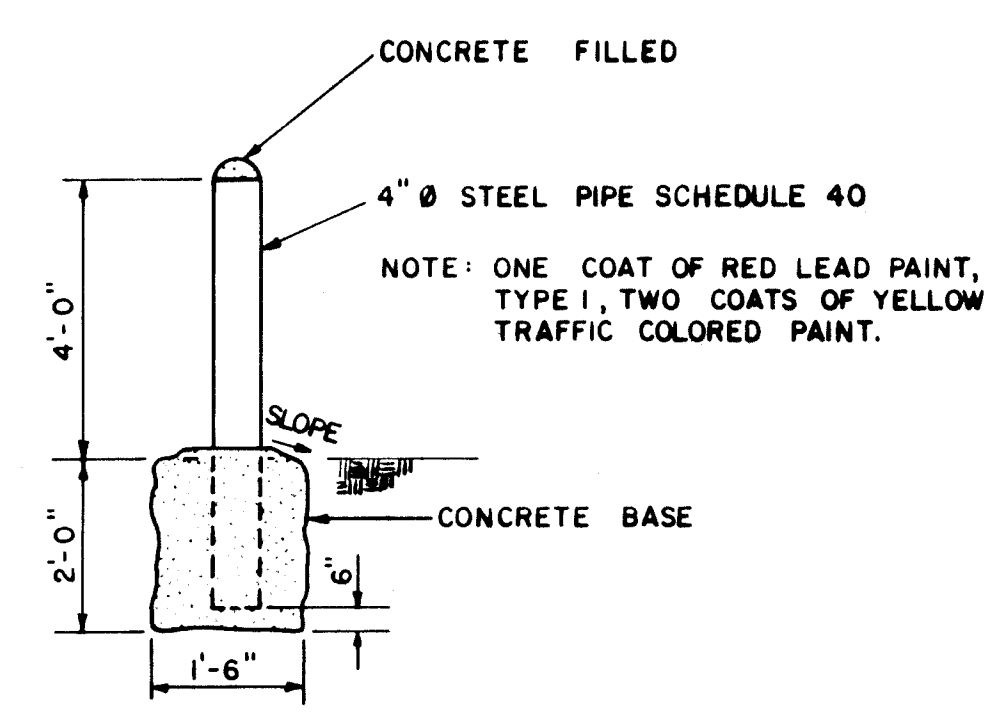
DRAWING NO. 1647 **MAP NO.** L-13,14 **SHEET** 10 **OF** 18

RECORD DRAWING

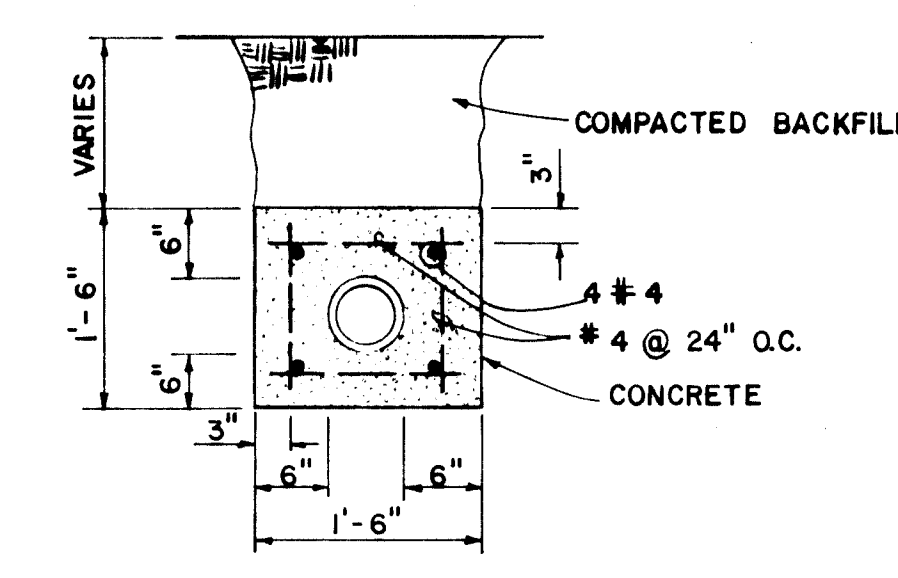


NOTE:
FOR RED CONCRETE, ADD RED TILE DYE, 3LB.
PER C.Y. TO NORMAL CONCRETE.

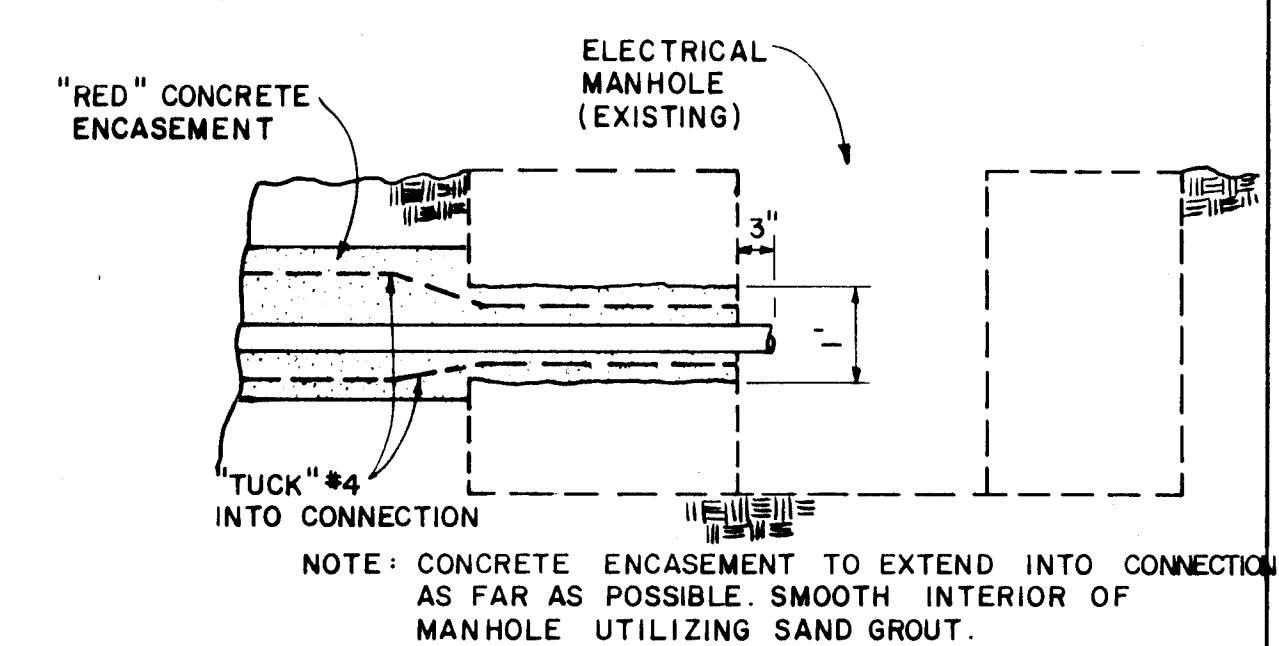
PVC ENCASEMENT
SCALE: NONE



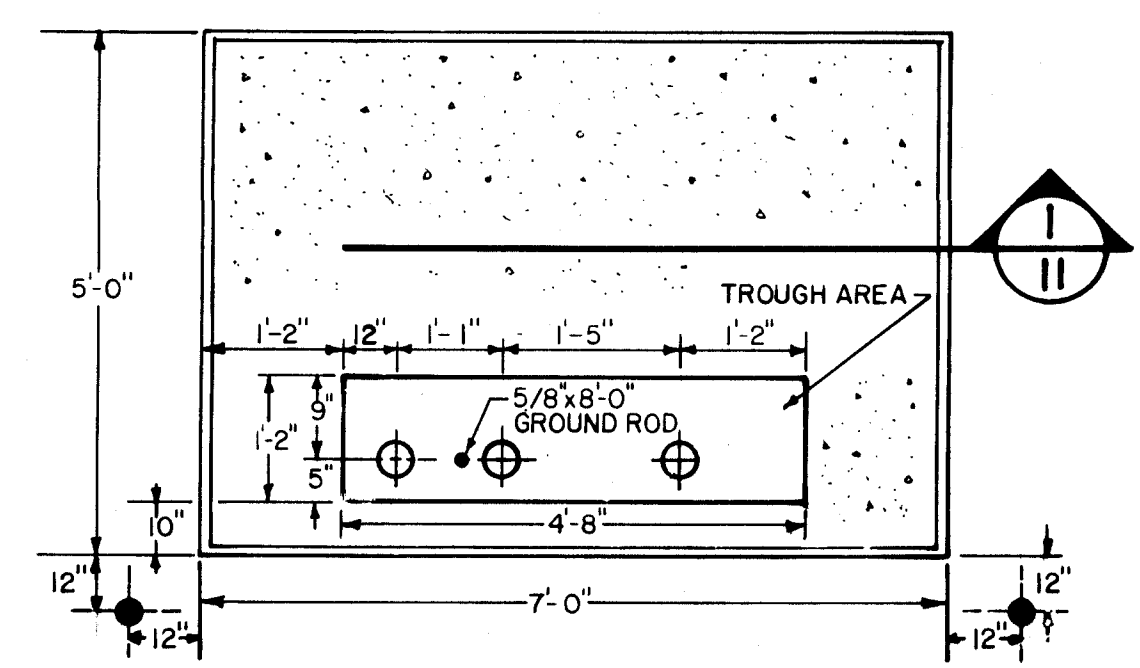
GUARD POST DETAIL
SCALE: NONE



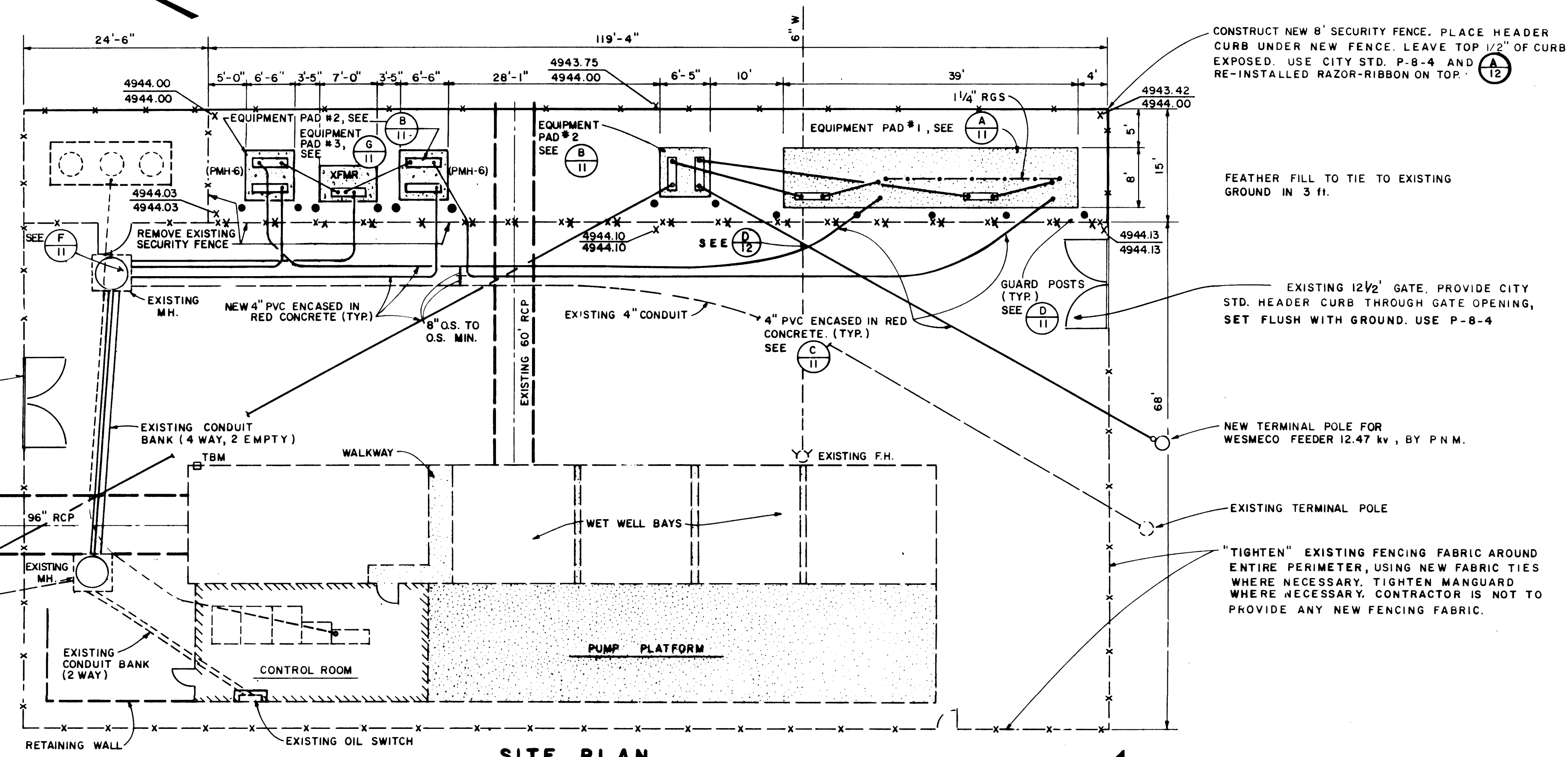
WATER LINE ENCASEMENT
SCALE: NONE



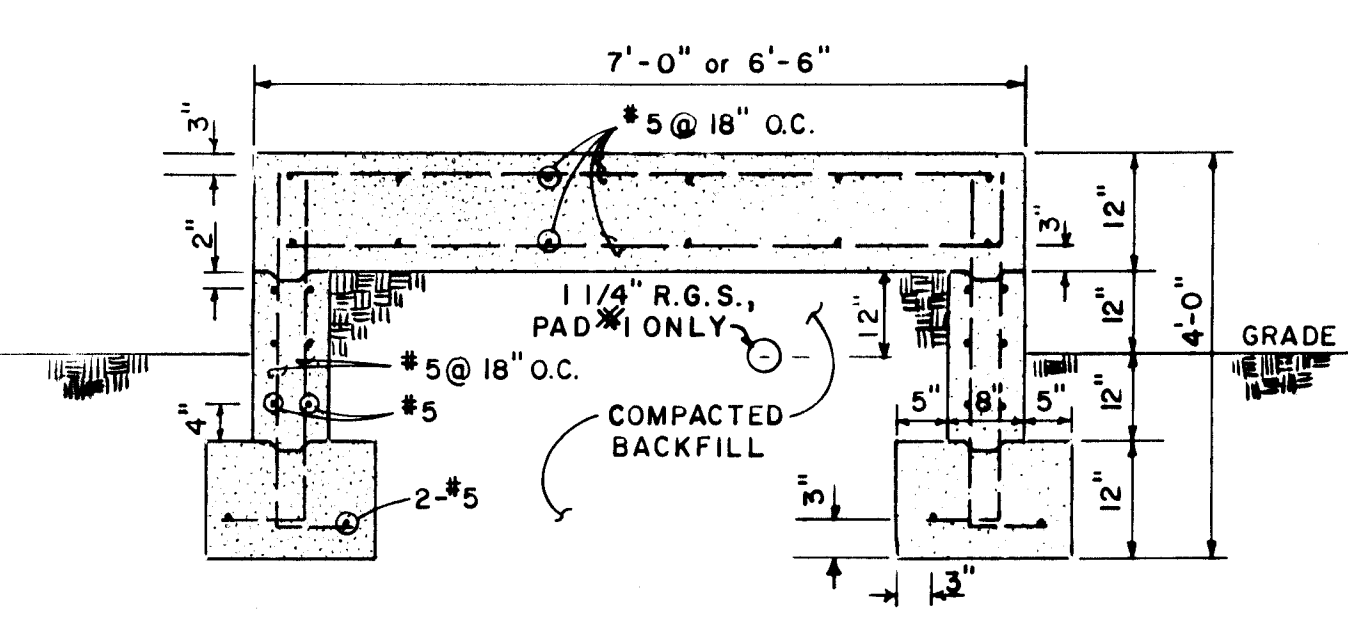
P.V.C. DUCT TO MANHOLE CONNECTION
SCALE: NONE



EQUIPMENT PAD #3
SCALE: NONE

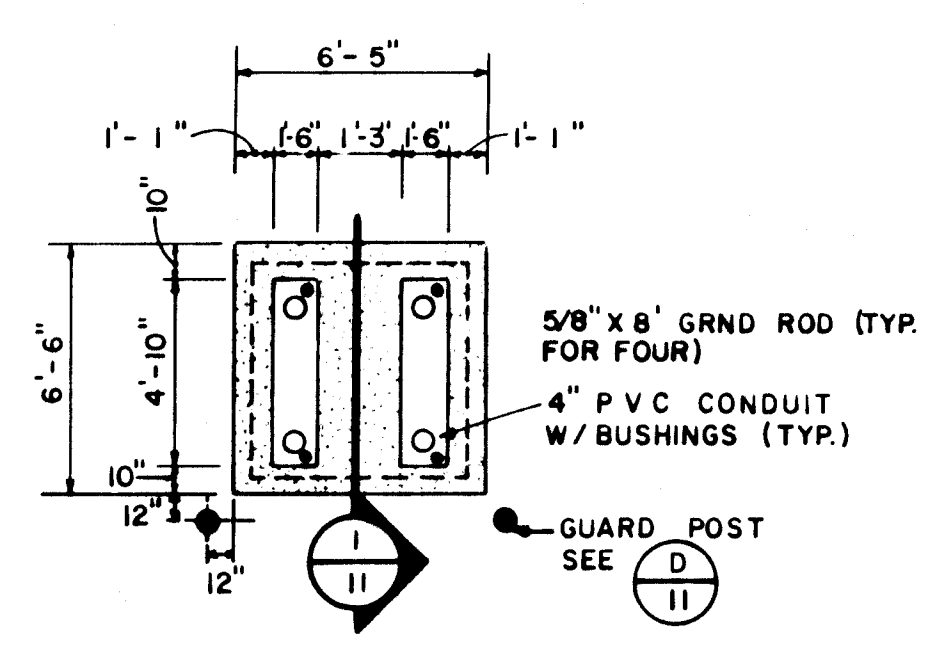


SITE PLAN
SCALE: 1" = 10'



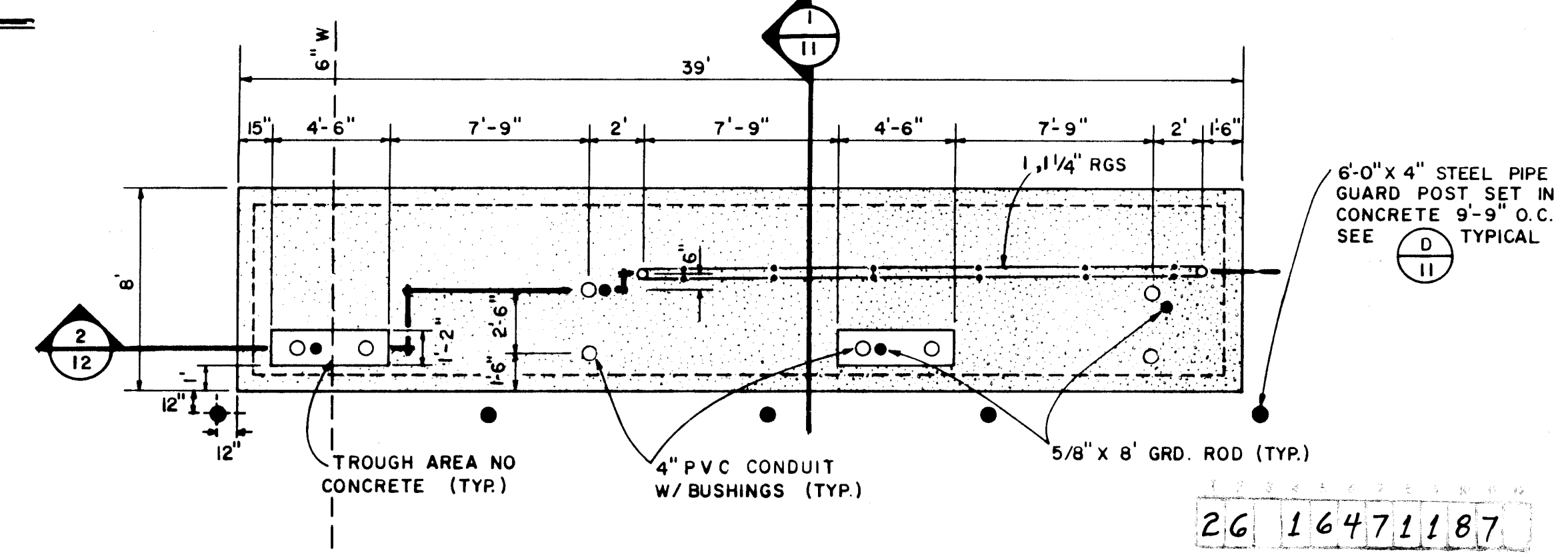
NOTE:
SLAB ON GRADE TO BE PLACED MONOLITHICALLY.

SECTION I
SCALE: NONE



NOTE:
FINISHED ELEV. TOP OF PAD = 4946.00

EQUIPMENT PAD #2
SCALE: 1" = 5'

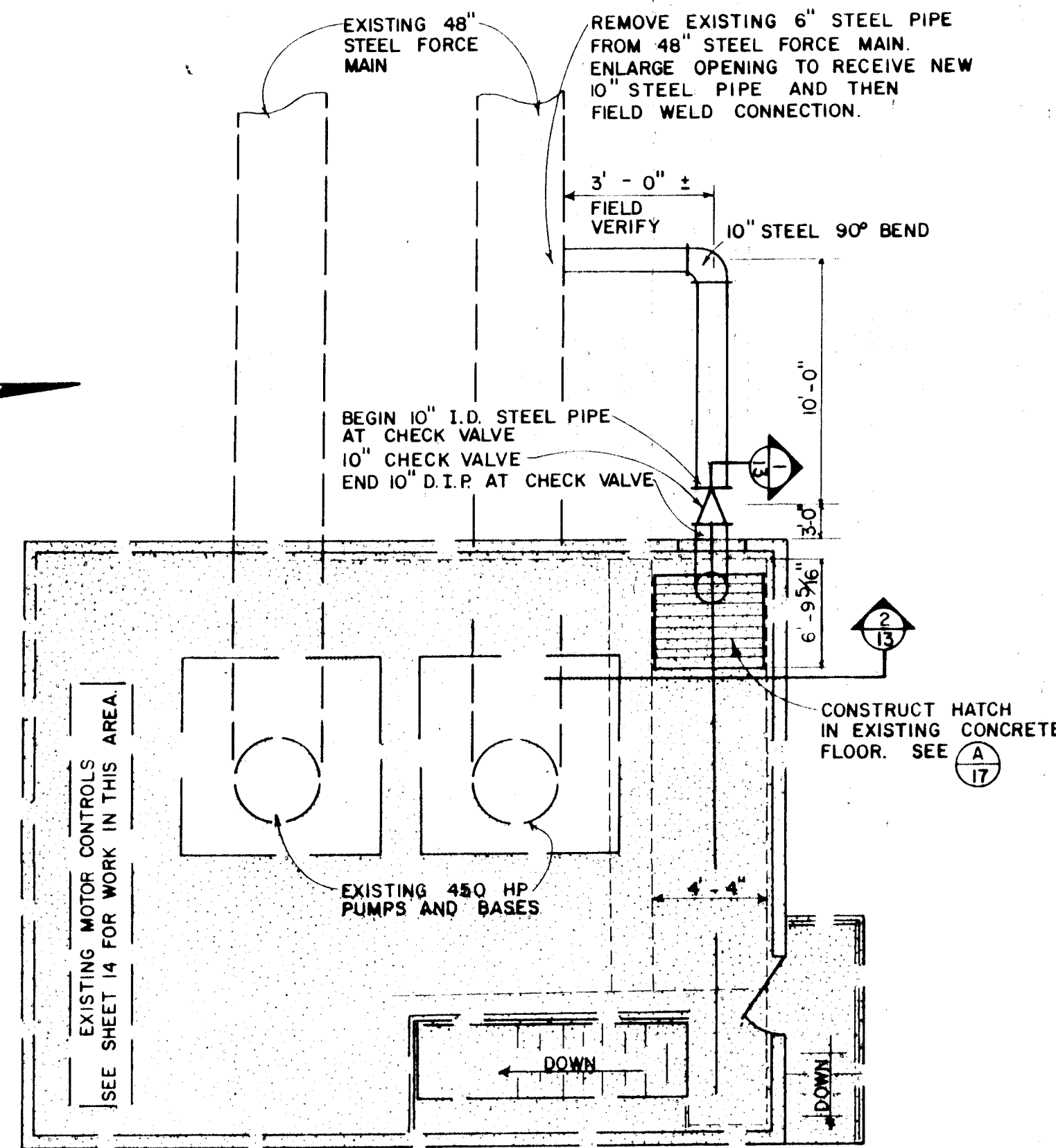


NOTE:
FINISHED ELEV. TOP OF PAD = 4946.00

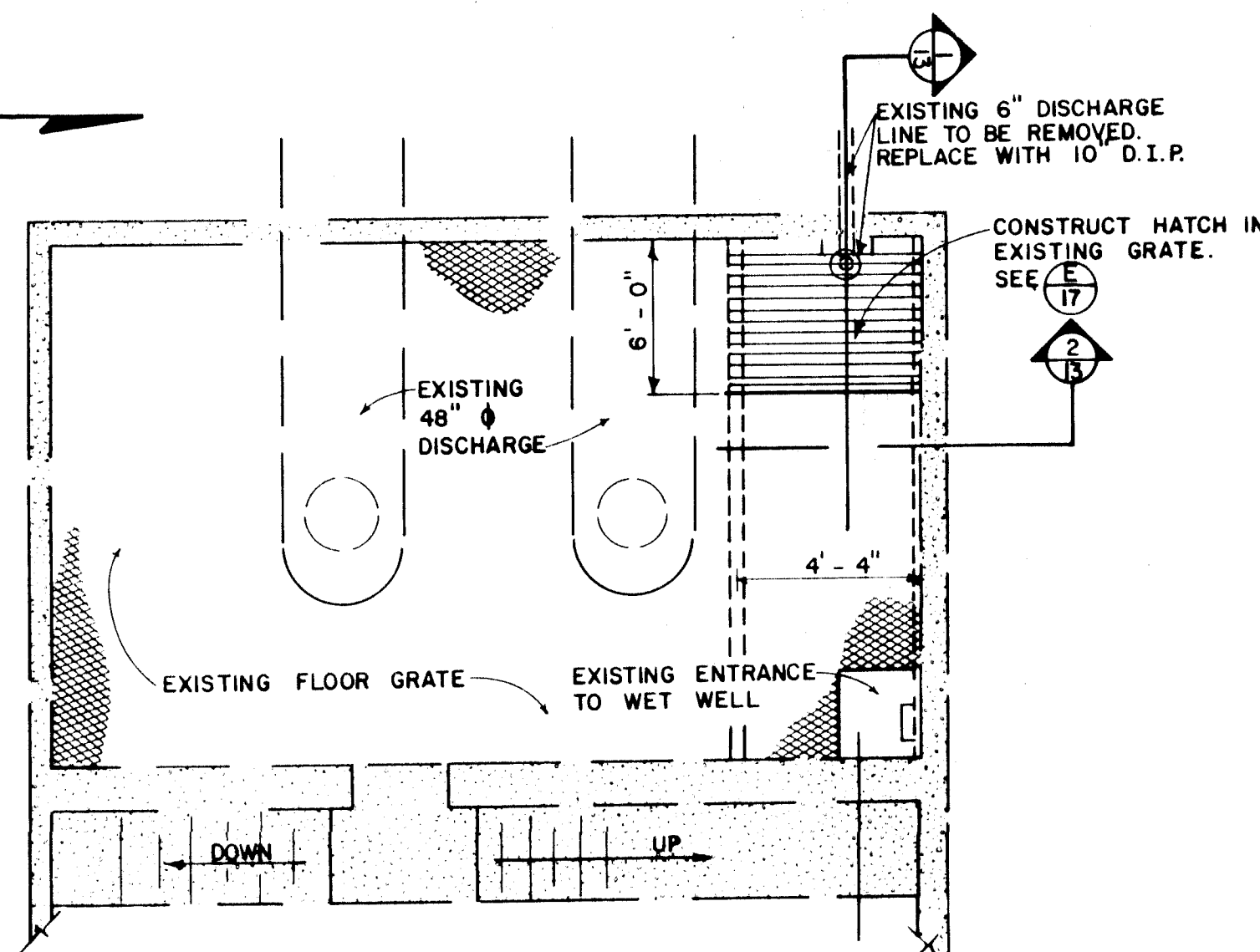
EQUIPMENT PAD #1
SCALE: 1" = 5'

- NOTES**
1. ALL CONCRETE TO HAVE A COMPRESSIVE STRENGTH 3000 PSI @ 28 DAYS.
 2. ALL CONCRETE PADS ARE TO BE 12" THICK.
 3. GROUT ALL CONDUIT CONNECTIONS AT MANHOLES.
 4. PERFORM MISCELLANEOUS CLEANUP NEXT TO EXISTING FENCE LINE TO BE REMOVED OR RELOCATED PRIOR TO PLACING FILL.
 5. "DELETED"
 6. ALL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS.
 7. ALL CONDUIT ELBOWS TO BE RGS, LONG RADIUS, SWEEP BEND TYPE.
 8. RGS - SCHEDULE 40 RIGID GALVANIZED STEEL PIPE AS PER P.N.M. REQUIREMENTS. DO NOT ENCASE IN RED CONCRETE.
 9. FOR PVC DUCT CROSSINGS, SEE D-12
 10. MIN. RADIUS OF CURVATURE FOR 4" PVC = 100'

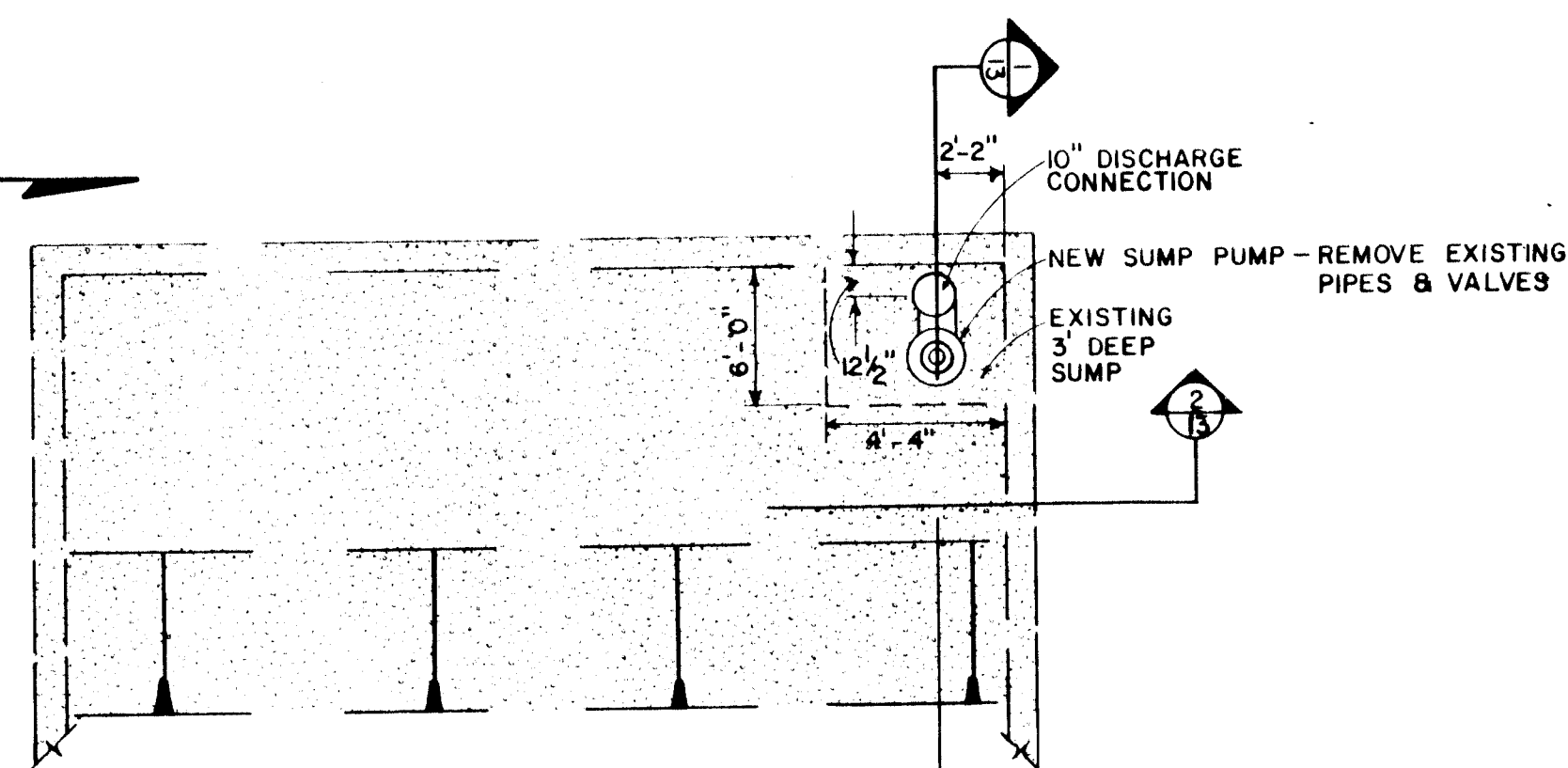
ENGINEER'S SEAL				SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
				NO.	BY	DATE	"□" CHISELLED INTO TOP OF CONCRETE WALL	CONTRACTOR	RODGERS CONST.
							LOCATED AT THE NORTHEAST CORNER OF THE NORTH	INSPECTOR'S	
							WET WELL BAY. EL. = 4945.94	ACCEPTANCE BY	DATE
								VERIFICATION BY	DATE
								DRAWINGS	DATE
								SUBMITTED BY	DATE
							ACS 12-K14 "□" CHISELLED ON TOP OF CONCRETE	MICRO-FILM INFORMATION	
							CURB AT THE ESE CURB RETURN OF INTERSECTION	RECORDED BY	DATE
							OF ATLANTIC AVE. & BARELAS ST. S.W.	NO	
							EL. = 4947.045		



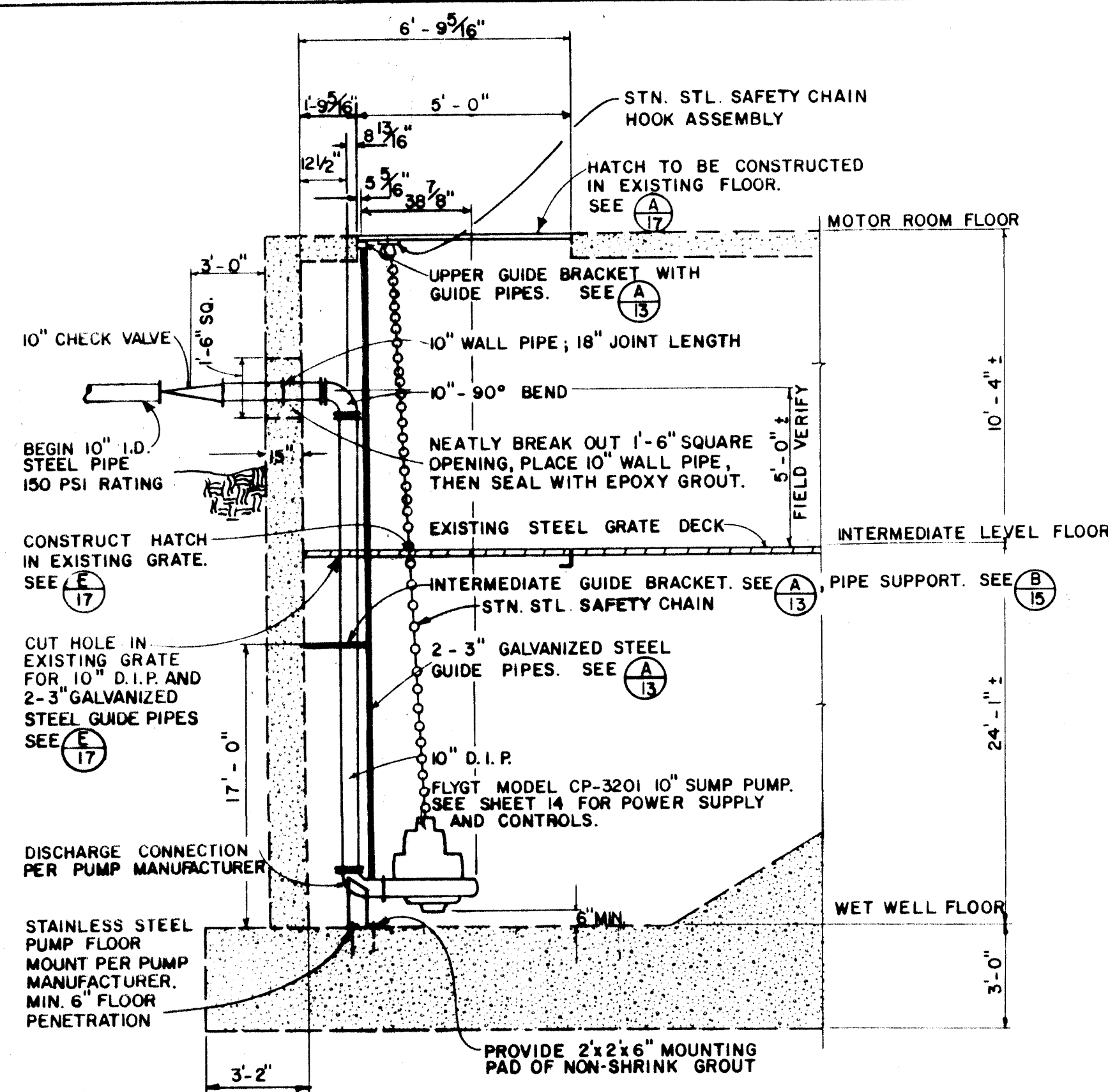
MOTOR ROOM FLOOR PLAN
SCALE: NONE ELEV. = 4965.28



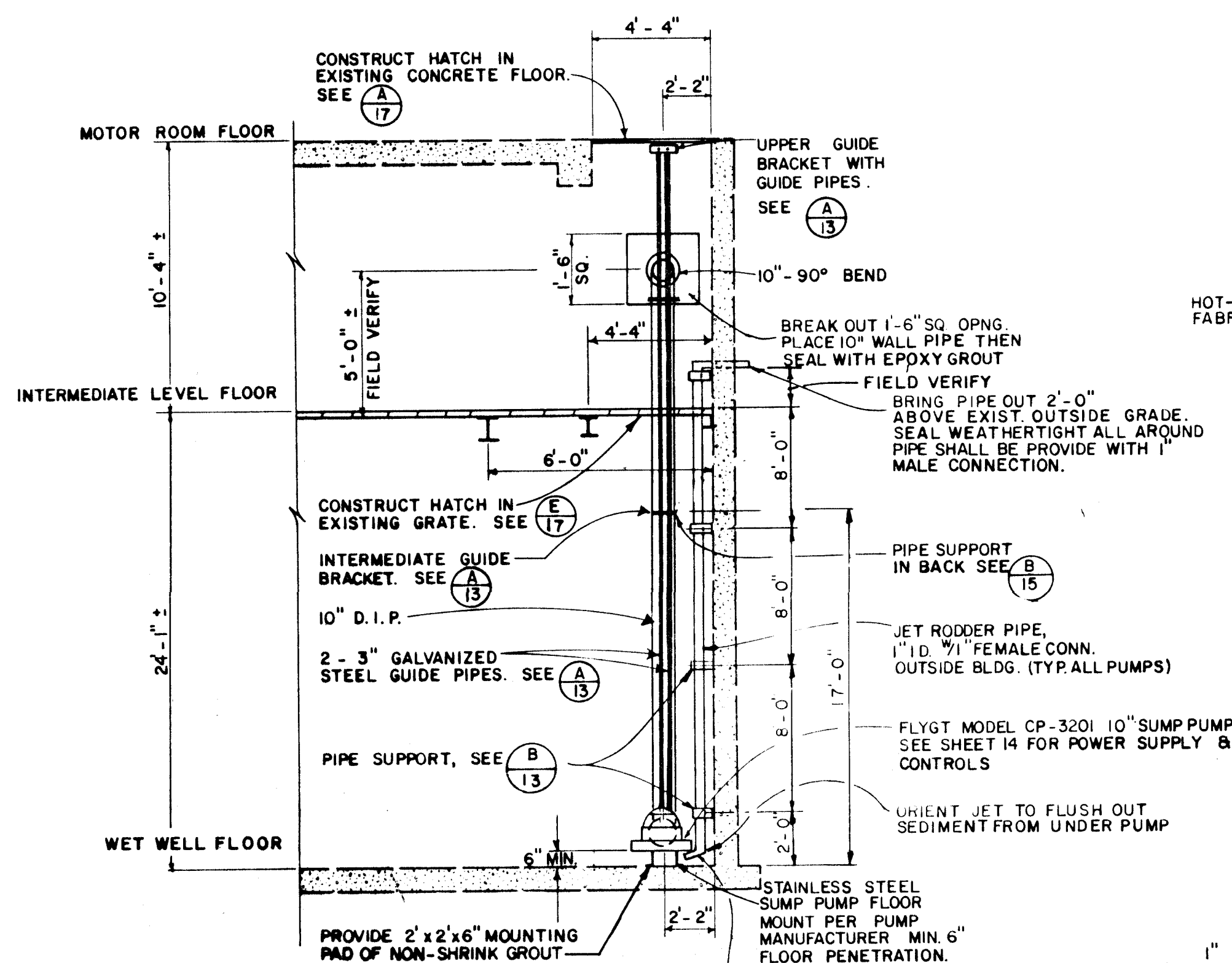
INTERMEDIATE LEVEL FLOOR PLAN
SCALE: NONE ELEV. = 4954.95



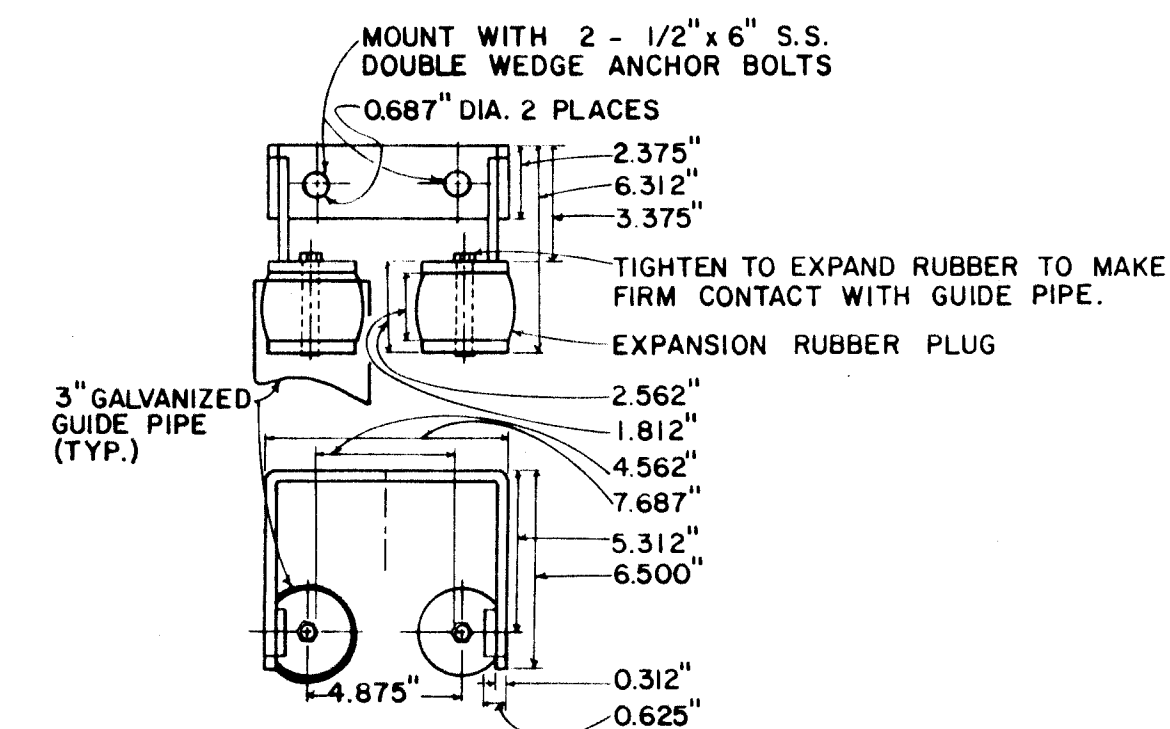
WET WELL FLOOR PLAN
SCALE: NONE ELEV. = 4930.86



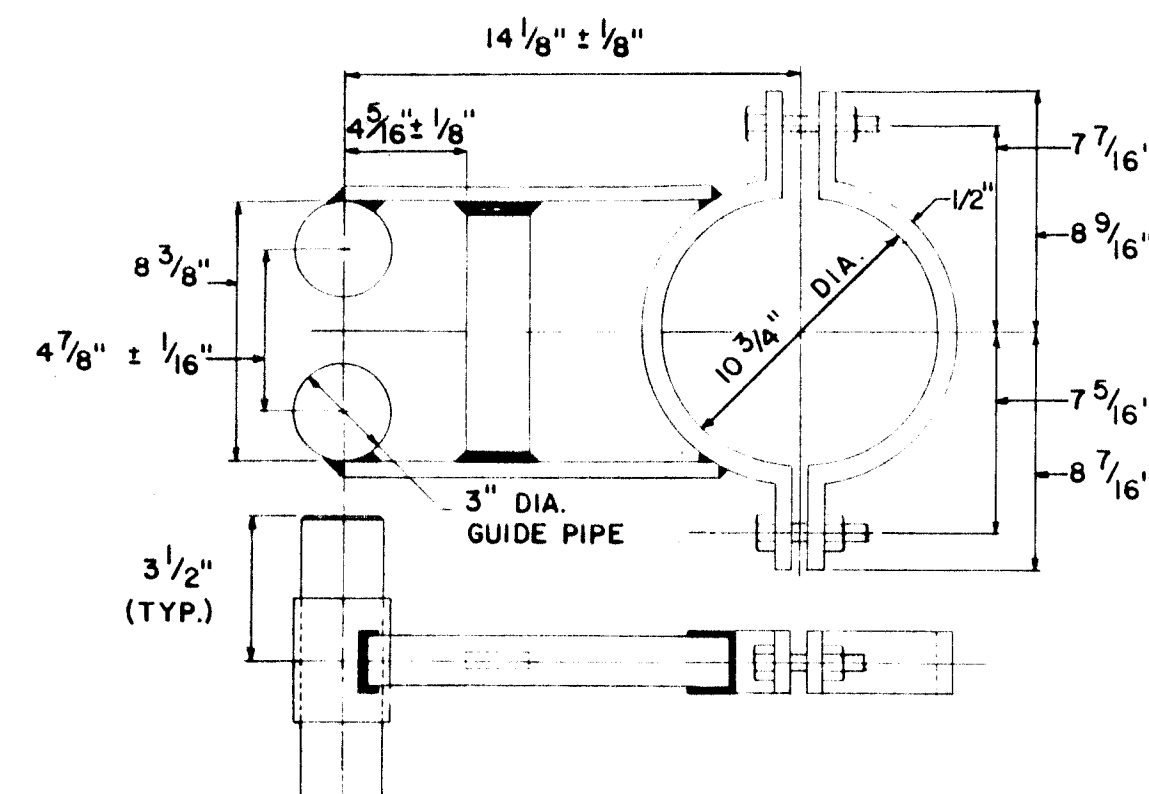
SECTION 1
SCALE: NONE 13



SECTION 2
SCALE: NONE 13

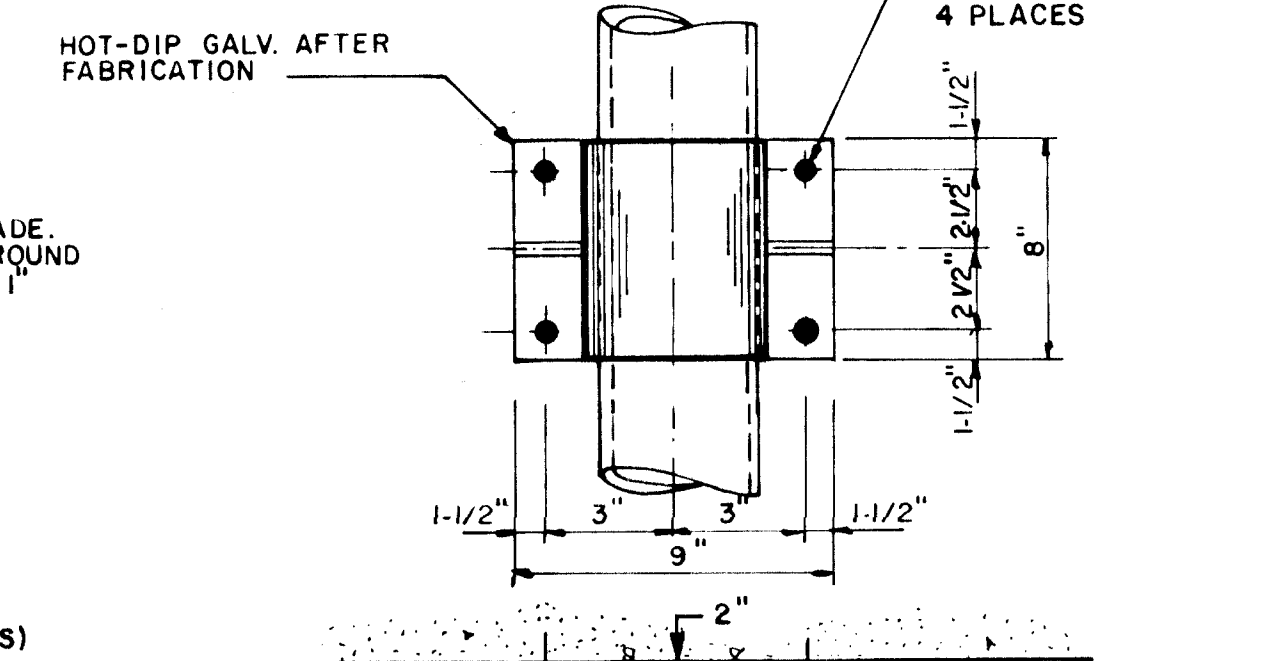


UPPER GUIDE BAR BRACKET
(COORDINATE GUIDE BAR BRACKET THROUGH PUMP MANUFACTURER)



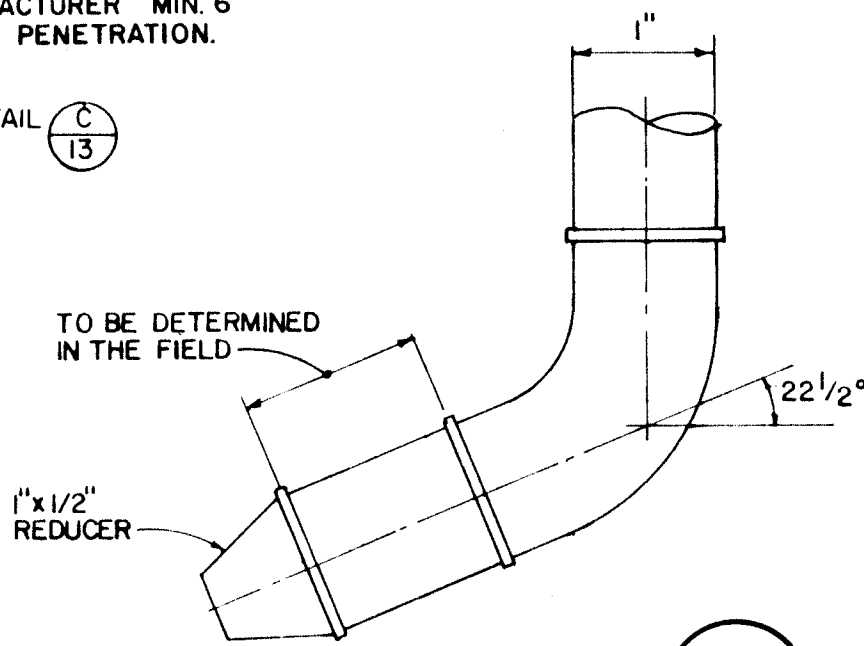
INTERMEDIATE GUIDE BAR BRACKET
(COORDINATE GUIDE BAR BRACKET THROUGH PUMP MANUFACTURER)

DETAIL A
SCALE: NONE 13



PIPE SUPPORT

DETAIL B
SCALE: NONE 13



JET DETAIL C
NO SCALE 13

NEW SUMP PUMP

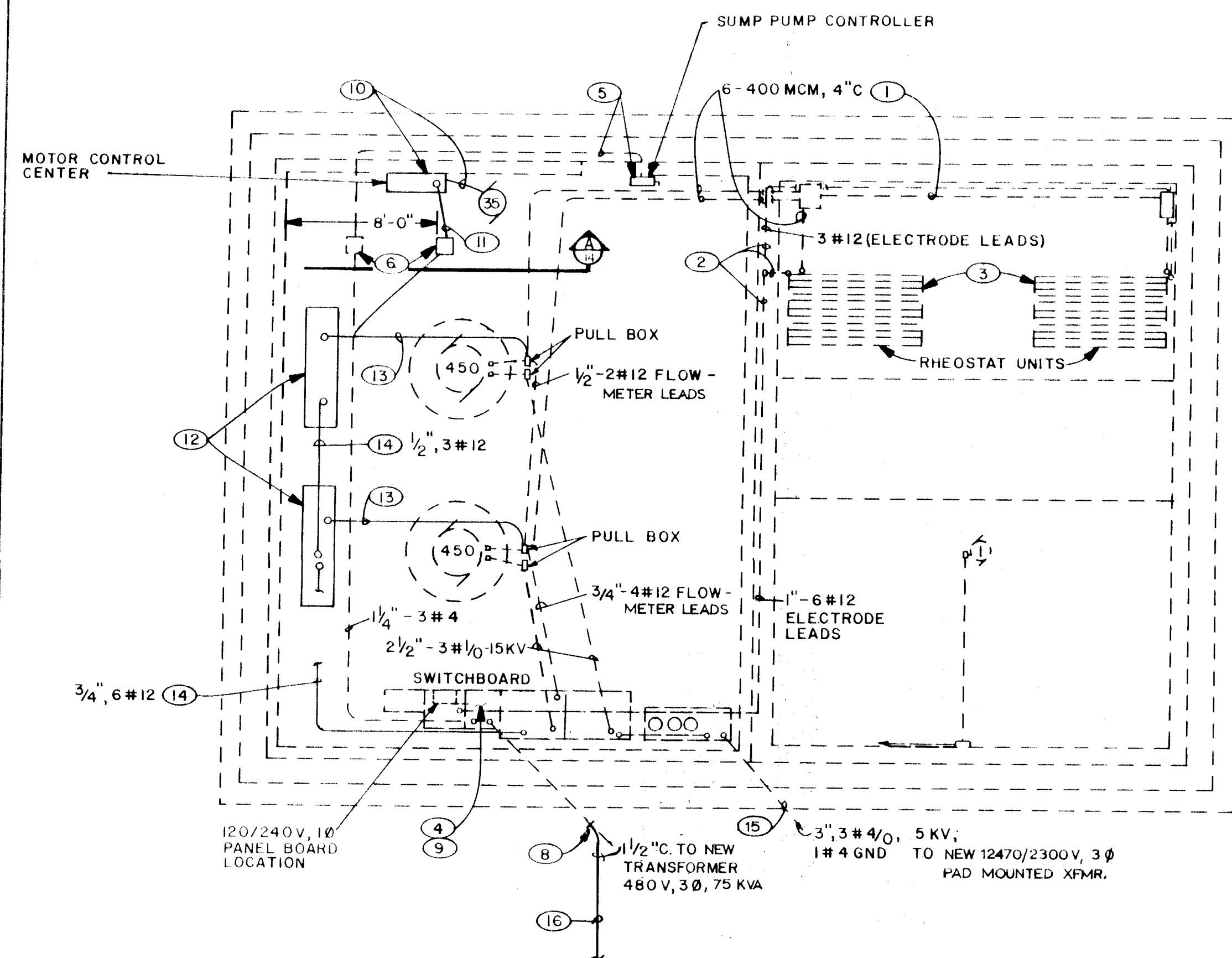
SUMP PUMP ON	4946.0
HIGH WATER ALARM	4949.0
SUMP PUMP OFF	4931.0

- NOTES**
- CONTRACTOR SHALL BE RESPONSIBLE FOR WET WELL DE-WATERING WHEN NECESSARY FOR CONSTRUCTION AT THIS STATION. THIS IS INCIDENTAL TO CONSTRUCTION.
 - STATION IS NOT TO BE TAKEN OUT OF SERVICE AT ANY TIME WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY.
 - STEEL PIPE SHALL CONFORM TO AWWA C200 - 150 PSI RATING.
 - ALL MATERIALS REMOVED ARE INCIDENTAL TO THE CONSTRUCTION AND ARE TO BE DELIVERED TO A LOCATION DESIGNATED BY THE CITY.
 - CONTRACTOR SHALL REMOVE EXISTING 6" D.I. PIPE, 6" GATE VALVES AND 6" CHECK VALVES AND DELIVER THEM TO THE CITY YARD AS DIRECTED BY THE CITY.
 - SUMP PUMP CAPABILITY SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

BOVAY ENGINEERS, INC. ALBUQUERQUE HOUSTON • SPOKANE • AUSTIN • BATON ROUGE					
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: SUMP PUMP AND DETAILS PHASE I REHABILITATION STORM WATER PUMPING STATIONS DURANES STATION NO. 30					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	2/14/86	Liquid Waste	<i>[Signature]</i>	1/27/86
A.C.E. - Design	<i>[Signature]</i>	1/27/86	Traffic	N/A	1/27/86
A.C.E. - Hydrology	<i>[Signature]</i>	1/27/86	Water	N/A	1/27/86
DRAWING NO.	1647	MAP NO.	H - 12	SHEET	13 OF 18

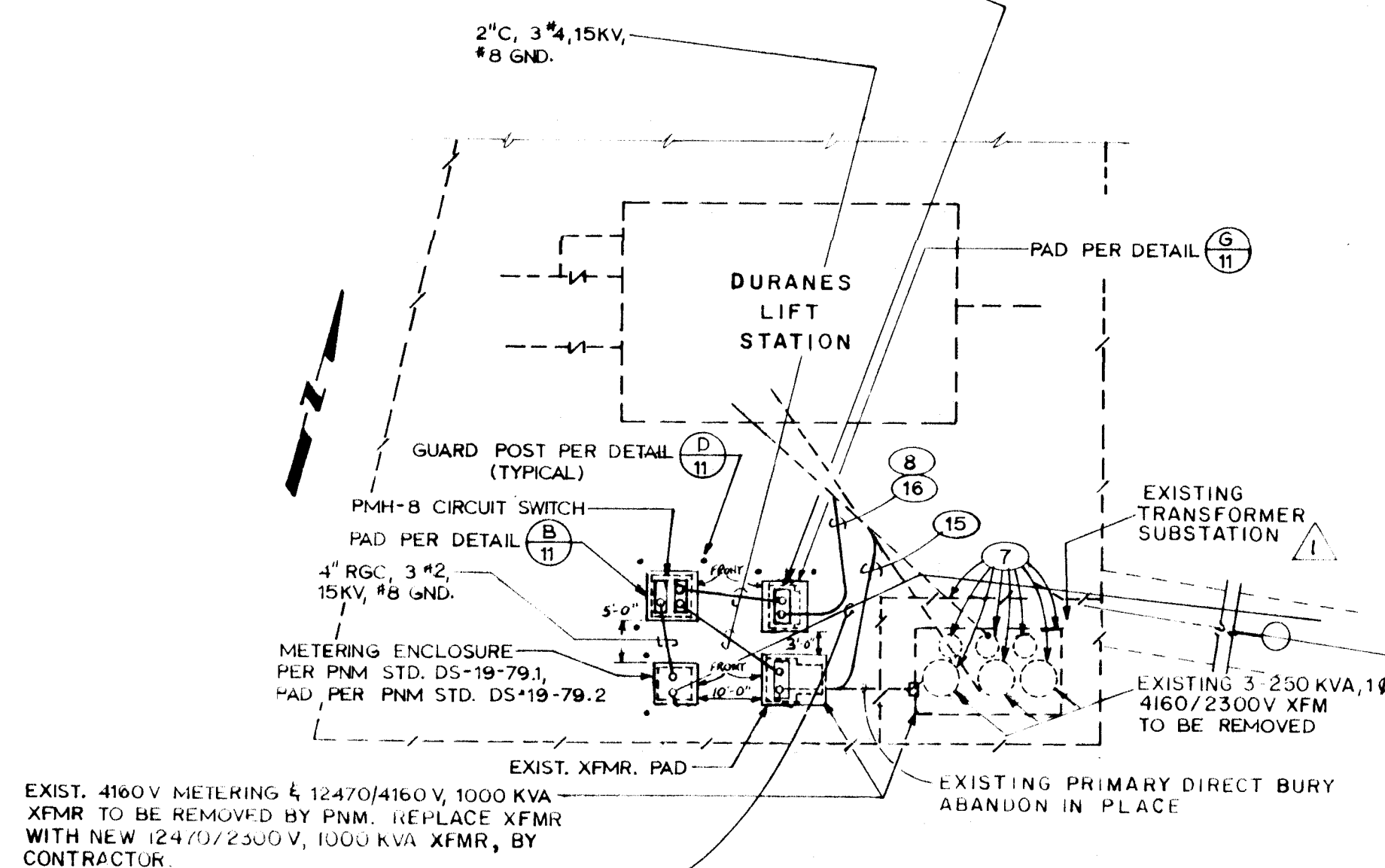
26 16471387

RECORD DRAWING

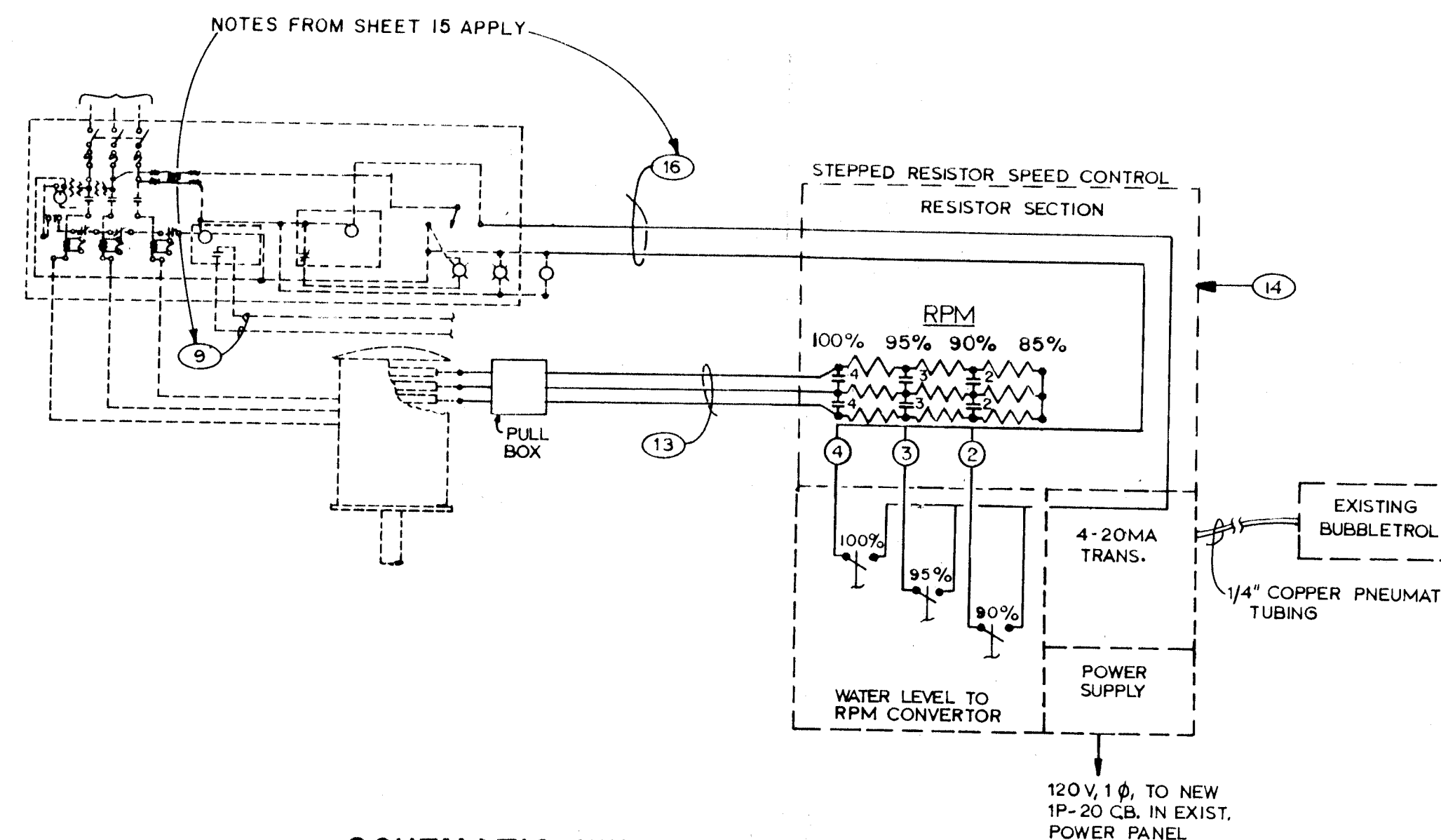


FLOOR PLAN
SCALE: $\frac{3}{16}'' = 1' - 0''$

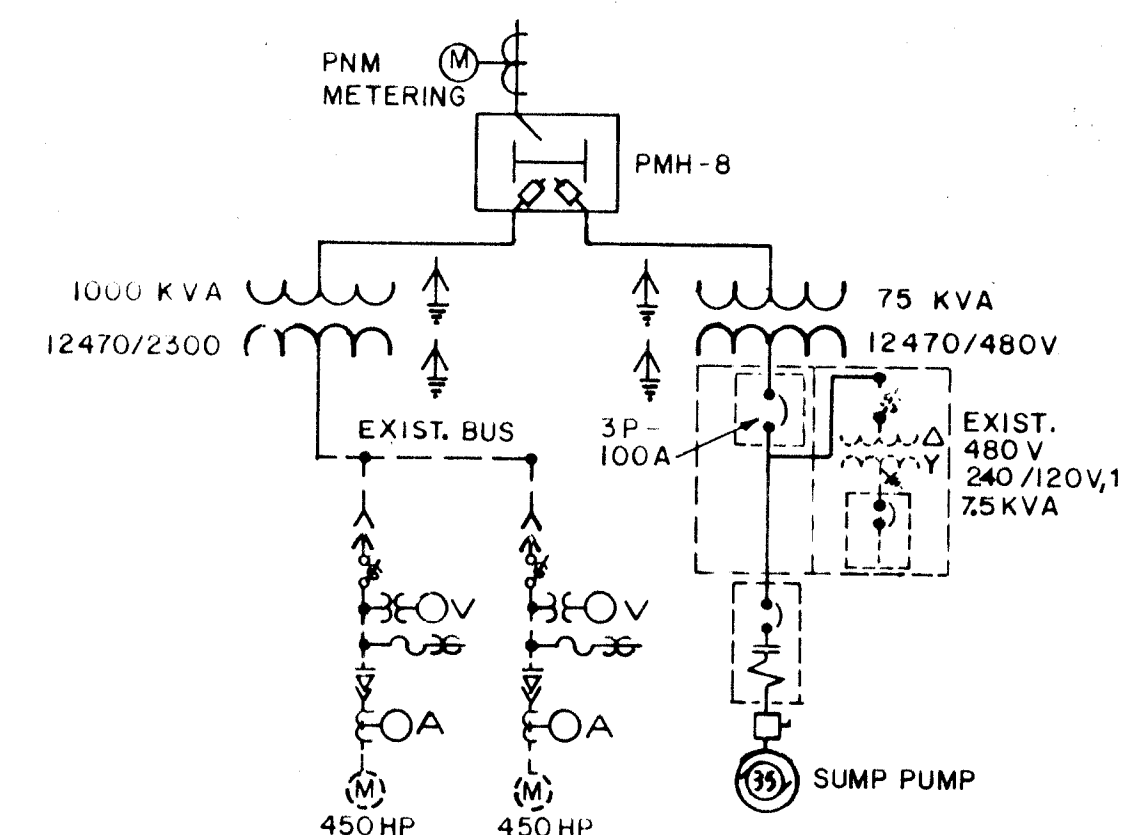
75KVA, 12.47KV - 480/277V PAD MTD TRANSFORMER. FURNISHED W/OIL IMMERSSED LOAD BREAK SW. & DRY WELL CANNISTER TYPE FUSING SQ D # 0DNJFG007AS BC55 OR APPROVED EQUAL



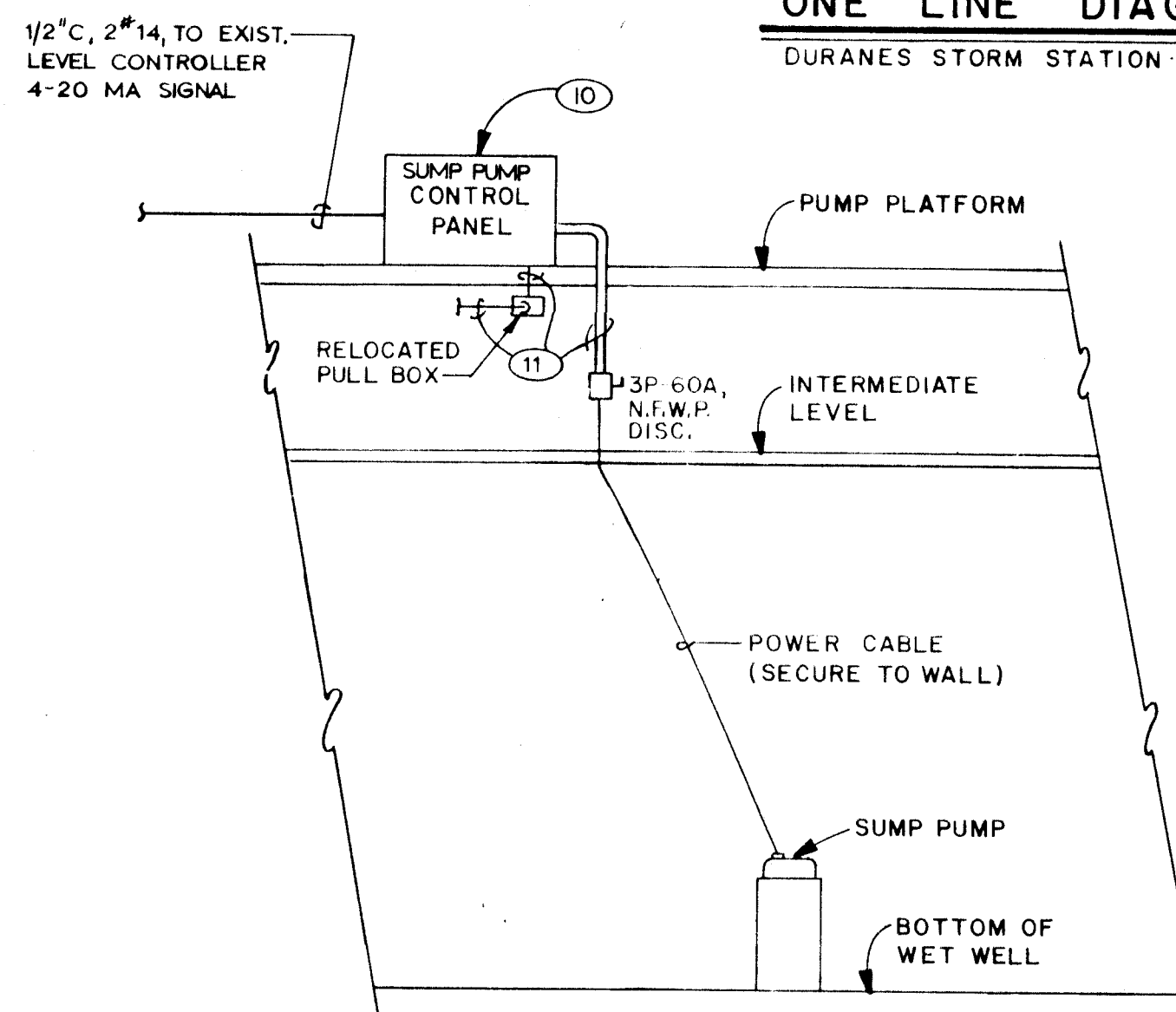
ELECTRICAL SITE PLAN
SCALE: $1'' = 20'$



SCHEMATIC WIRING DIAGRAM
TYPICAL FOR PUMPS 1 & 2



ONE LINE DIAGRAM
DURANES STORM STATION



ELEVATION
NO SCALE

REMOVAL NOTES

- REMOVE 400 MCM CONDUCTORS, 4\"/>

CONSTRUCTION NOTES

- PROVIDE 100A, 480V, 3P CIRCUIT BREAKER IN SPACE MADE AVAILABLE BY REMOVAL OF COMBINATION STARTER. VERIFY COMPATIBILITY WITH EXIST. SQUARE-D SWITCHGEAR. CONNECT 3 #2 CONDUCTORS. PROVIDE BLANK FILLER AS REQUIRED.
- INSTALL SUMP PUMP CONTROLLER & WIRING TO PUMP. PROVIDE KELLUM GHP AT DISC. TO SUPPORT PUMP CABLE.
- 3 #2 FOR MOTOR POWER, 2 #14 FOR CONTROLLER INTERLOCK TO THERMAL SWITCHES (3) IN MOTOR WINDINGS, #10 GND. 1-1/4\"/>

GENERAL NOTES

- ALL MATERIAL & EQUIPMENT REMOVED THAT IS NOT REUSED SHALL BE DELIVERED TO A LOCATION DESIGNATED BY THE CITY.
- ALL FEEDER OR BRANCH CIRCUIT POWER OUTAGES MUST HAVE PRIOR APPROVAL, IN WRITING, BY THE CITY.
- CONTRACTOR SHALL COORDINATE ALL WORKING INVOLVING SERVICE FEEDERS WITH PNM.
- FOR LEGEND, SEE SHEET 16.
- PNM SHALL SUPPLY PRIMARY METERING FOR PRIMARY VOLTAGE 3 PHASE, 4 WIRE SYSTEM AND ALL NECESSARY CABLES AND TERMINATIONS FROM PNM'S OVERHEAD DISTRIBUTION SYSTEM TO THE LINE SIDE OF THE PRIMARY METERING EQUIPMENT.

BOVAY ENGINEERS, INC.
ALBUQUERQUE
DESIGN • ENGINEER • ARCHITECT • PLANNING

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: ELECTRICAL PLANS & DIAGRAMS					
PHASE I ELECTRICAL RENOVATION STORM WATER PUMPING STATIONS DURANES STATION NO.30					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	1/10/86	Liquid Waste	<i>[Signature]</i>	1/27/81
A.C.E. - Design	<i>[Signature]</i>	1/27/86	Traffic	N/A LAP	1/23/86
A.C.E. - Hydrology	<i>[Signature]</i>	1/29/86	Water	N/A	1/27/86
DRAWING NO. 1647		MAP NO. H-12		SHEET 14 OF 18	

MOTOR ROOM FLOOR PLAN
SCALE: NONE ELEV = 4971.40

SECTION 1
SCALE: NONE 15

INTERMEDIATE LEVEL FLOOR PLAN
SCALE: NONE ELEV. = 4963.80

WET WELL FLOOR PLAN
SCALE: NONE ELEV. = 4942.80

INTERMEDIATE GUIDE BAR BRACKET
(COORDINATE WITH PUMP MANUFACTURER)

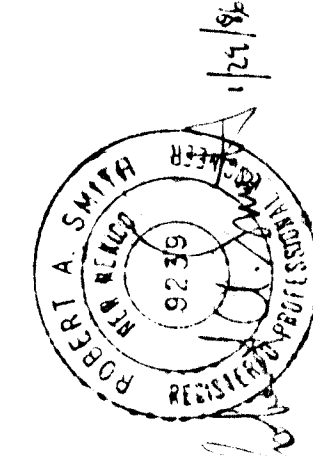
DETAIL A
SCALE: NONE 15

PIPE SUPPORT

DETAIL B
SCALE: NONE 15

SECTION 2
SCALE: NONE 15

1. CONTRACTOR SHALL BE RESPONSIBLE FOR WET WELL DE-WATERING WHEN NECESSARY FOR CONSTRUCTION AT THIS STATION. THIS IS INCIDENTAL TO CONSTRUCTION.
2. STATION IS NOT TO BE TAKEN OUT OF SERVICE AT ANY TIME WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY.
3. STEEL PIPE SHALL CONFORM TO AWWA C200 - 150 PSI RATING.
4. ALL MATERIALS REMOVED ARE INCIDENTAL TO THIS CONSTRUCTION AND ARE TO BE DELIVERED TO A LOCATION DESIGNATED BY THE CITY.
5. CONTRACTOR SHALL REMOVE EXISTING 6" D.I.P., GATE VALVES, AND CHECK VALVES, AND DELIVER THEM TO THE CITY YARD AS DIRECTED BY THE CITY.
6. SUMP PUMP CAPABILITY SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.



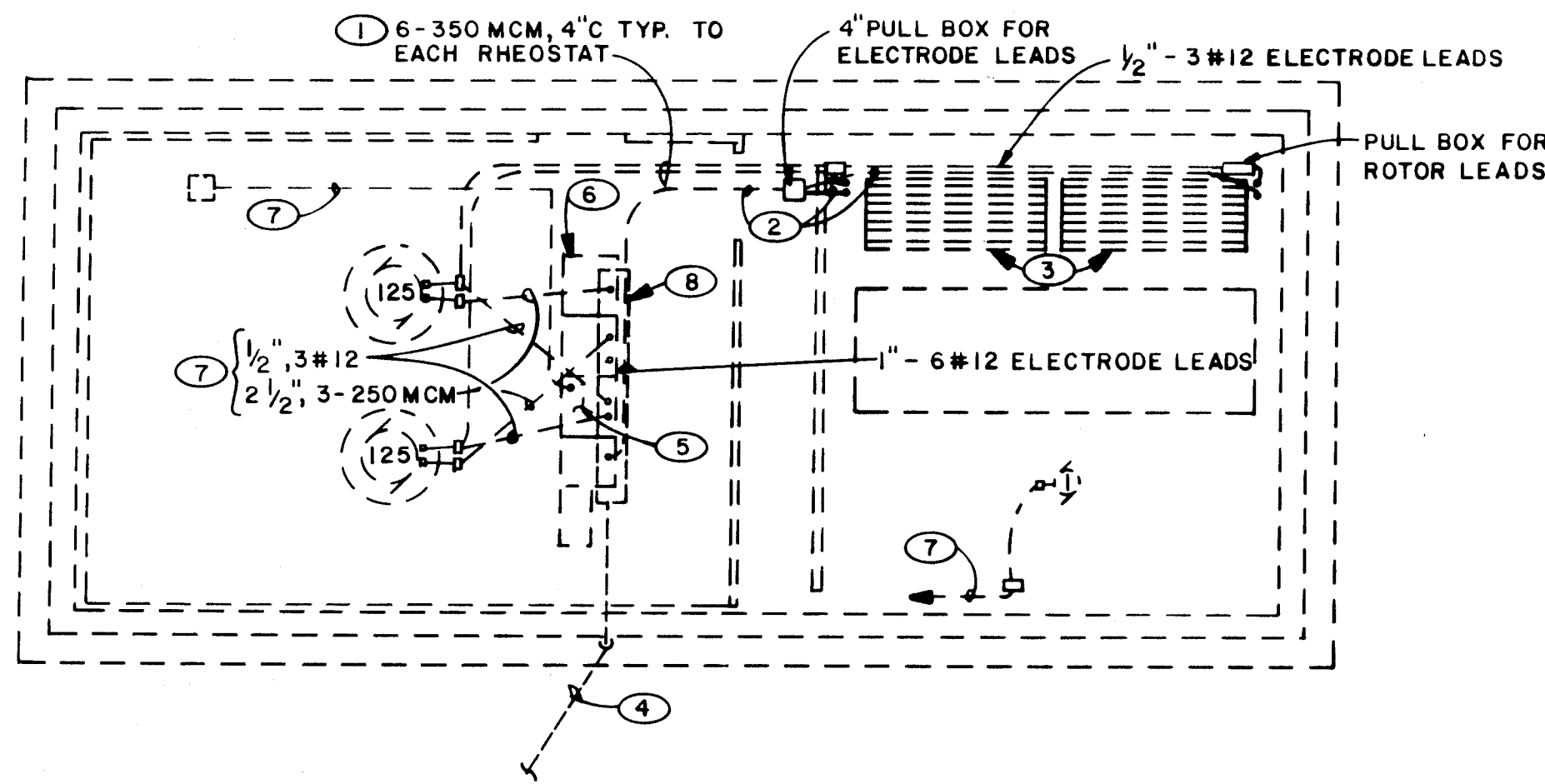
BOVAY ENGINEERS, INC
ALBUQUERQUE
 HOUSTON • SPOKANE • AUSTIN • BATON ROUGE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE:	SUMP PUMP AND DETAILS
	PHASE I REHABILITATION
	STORM WATER PUMPING STATION
	CANDELARIA STATION NO. 4

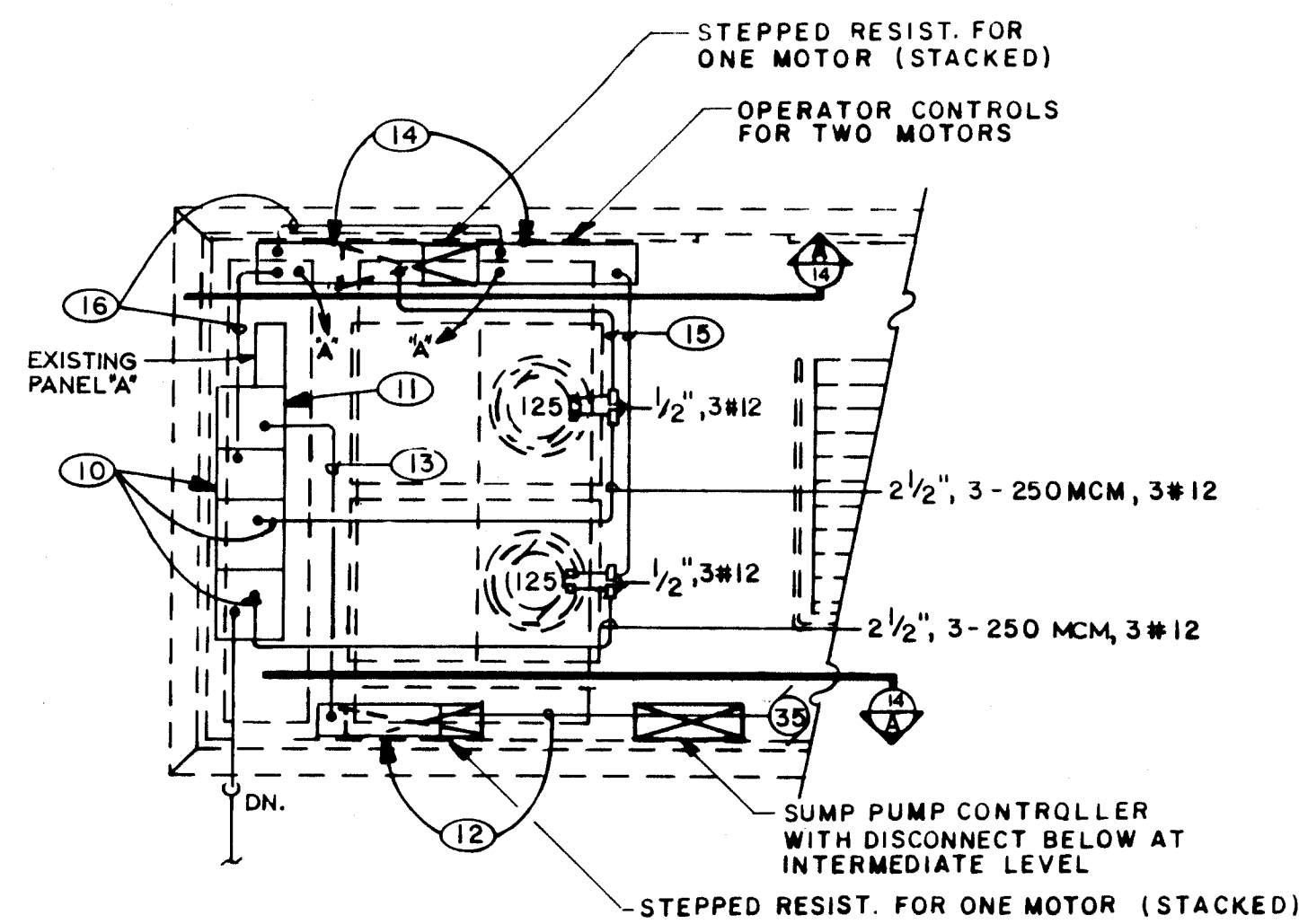
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	2/10/86	Liquid Waste	<i>[Signature]</i>	1/29/86
ACE Design	<i>[Signature]</i>	1/29/86	Traffic	N/A GAP	1/29/86
ACE Hyatology	<i>[Signature]</i>	1/29/86	Water	N/A	1/29/86

DRAWING NO.	1647	MAP NO. G-12	SHEET 15	OF 18
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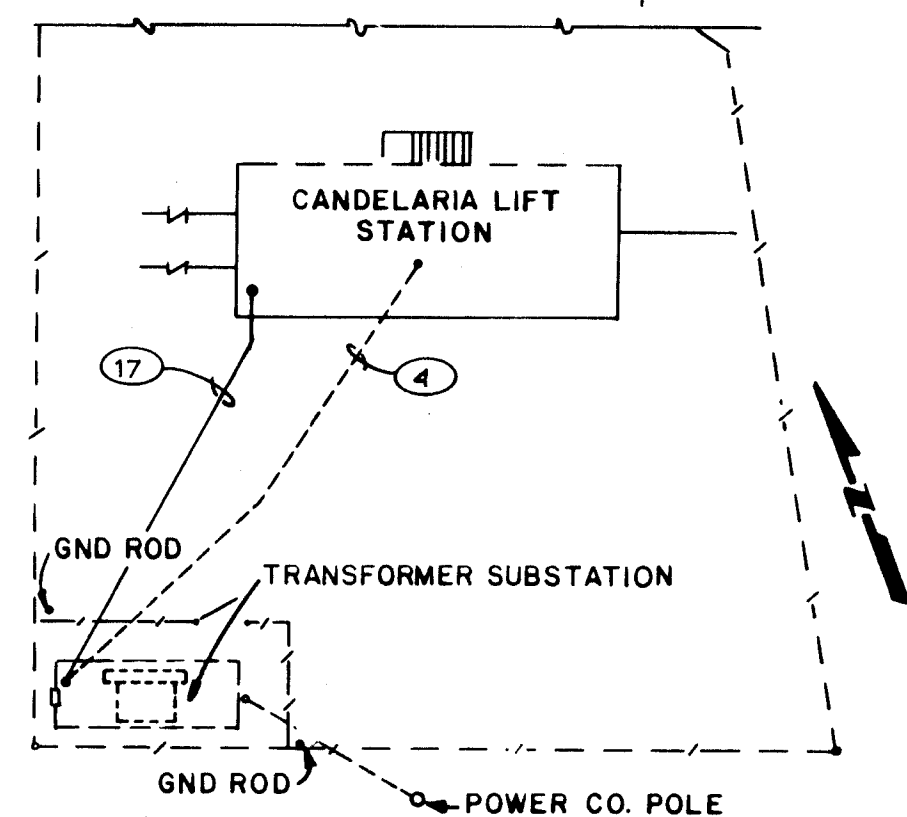
FLOOR PLAN - REMOVAL

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



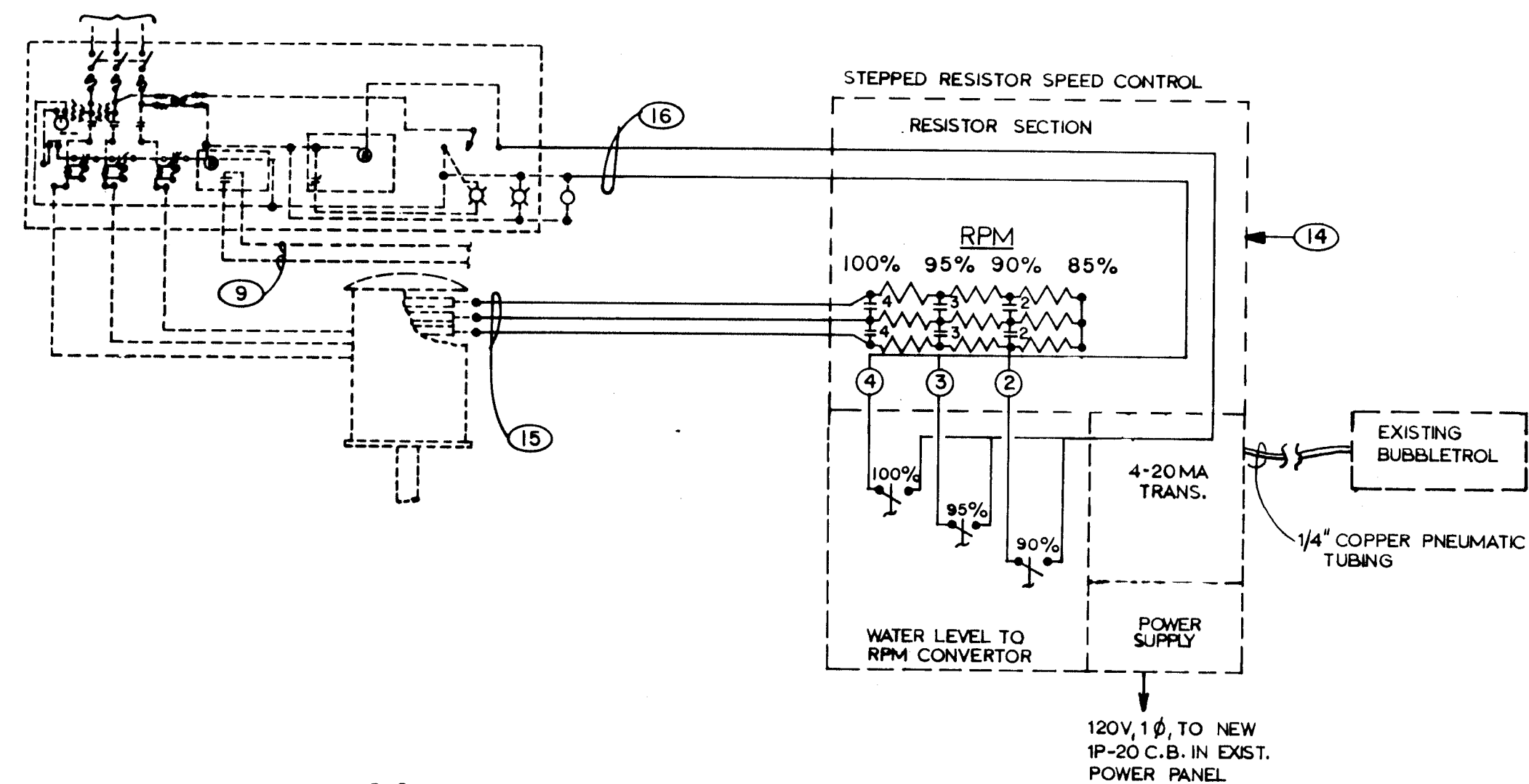
PARTIAL FLOOR PLAN - INSTALLATION

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



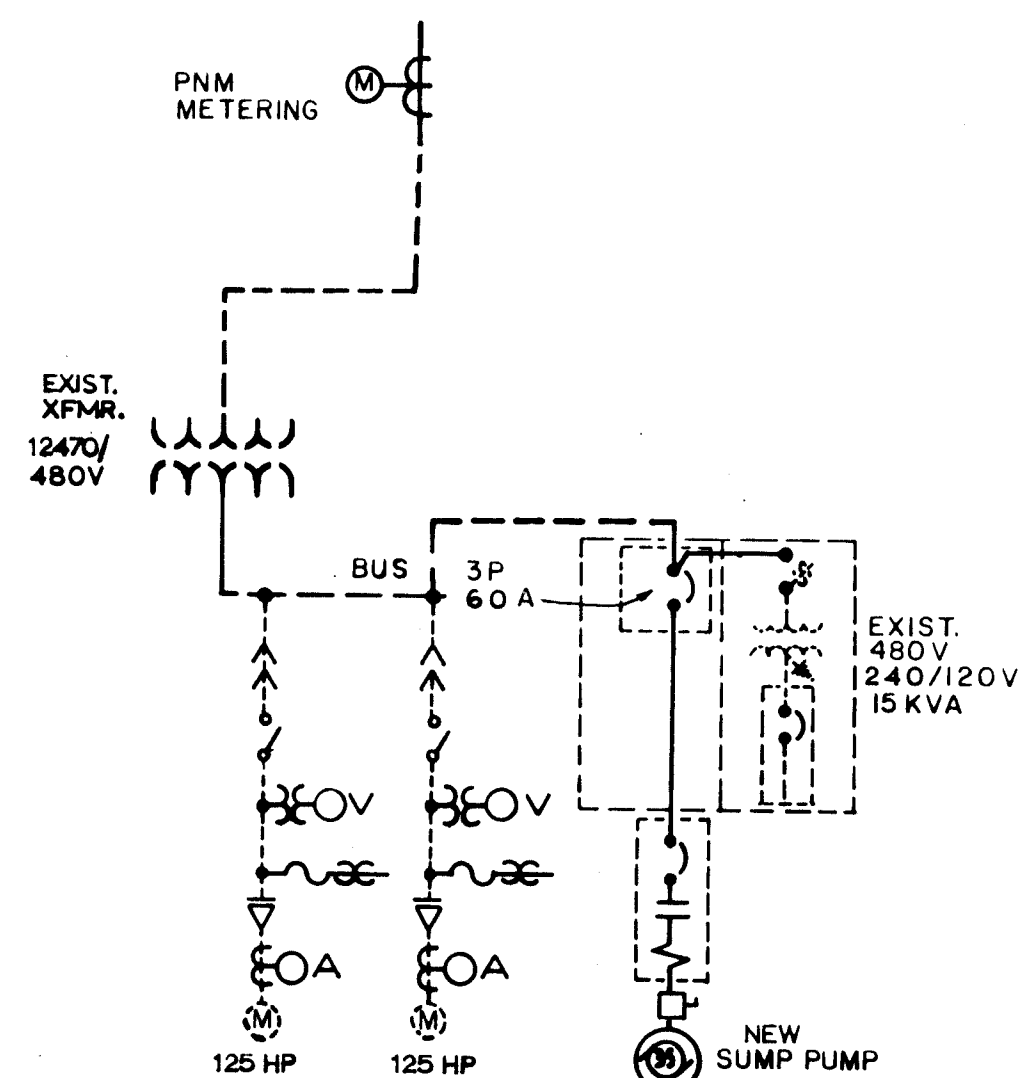
ELECTRICAL SITE PLAN

SCALE: 1" = 10'



SCHEMATIC WIRING DIAGRAM

TYPICAL FOR PUMPS 1 & 2



ONE LINE DIAGRAM

CANDELARIA STORM STATION

REMOVAL NOTES

- 1 REMOVE 350 MCM CONDUCTORS, 4" CONDUIT & (2) PULL BOXES FROM RHEOSTAT UNITS BACK TO PULL BOXES AT MOTORS.
- 2 REMOVE #12 CONDUCTORS & CONDUIT FROM ELECTRODES BACK TO & INCLUDING ELECTRODE RELAYS IN SWITCHGEAR.
- 3 REMOVE RHEOSTAT UNITS.
- 4 REMOVE THE (6) 250 MCM FEEDERS & CONDUIT FROM PNM'S PAD-MT TRANSFORMER TO THE SWITCHGEAR.
- 5 REMOVE COMBINATION 480V FVNR STARTER FOR SUMP PUMP.
- 6 REMOVE THE (5) SECTIONS OF SWITCHGEAR & STORE FOR REINSTALLATION.
- 7 IN THE INTERMEDIATE LEVEL, REMOVE 3/4" FEEDER CONDUIT TO OUTSIDE THE BUILDING & ALL BRANCH CIRCUIT CONDUIT & WIRING ENTERING & LEAVING THE 8" WIRING TROUGH BELOW SWITCHGEAR LOCATION. ALL CIRCUITS SHALL BE REMOVED BACK TO A POINT WHERE RECONNECTION CAN BE MADE AFTER RELOCATION OF SWITCHGEAR.
- 8 REMOVE WIRING TROUGH & (2) PULL BOXES BENEATH MAIN PUMPS.
- 9 REMOVE SUMP PUMP INTERLOCK WIRING.

CONSTRUCTION NOTES

- 10 REINSTALL EXISTING SWITCHGEAR. REWIRE EXISTING MOTORS.
- 11 PROVIDE 60A, 480V, 3Ø CIRCUIT BREAKER IN SPACE MADE AVAILABLE BY REMOVAL OF COMBINATION STARTER. VERIFY COMPATIBILITY WITH EXIST. SQUARE-D SWITCHGEAR. PROVIDE BLANK FILLER AS REQUIRED.
- 12 INSTALL SUMP PUMP CONTROLLER & WIRE TO PUMP.
- 13 3 #4, 1 #10 GND 1 1/4" C. FROM 60A FUSED SW TO SUMP PUMP CONTROLLER.
- 14 INSTALL STEPPED RESISTOR, MOTOR SPEED CONTROLS.
- 15 3 - 250 MCM, 2 1/4" C. FROM PULL BOX AT MOTOR TO SPEED CONTROL.
- 16 INSTALL CONTROL WIRING FROM SPEED CONTROLS TO EXISTING PRIMARY STARTERS.
- 17 6 - 250 MCM, 1 #2/0 GND 3/4" C. FROM PNM'S METERING ENCLOSURE TO SWITCHGEAR. WRAP UNDERGROUND CONDUIT WITH SCOTCH #51 TAPE, OR OTHER APPROVED.

GENERAL NOTES

- 1 ALL MATERIAL & EQUIPMENT REMOVED THAT IS NOT REUSED SHALL BE DELIVERED TO A LOCATION DESIGNATED BY THE CITY.
- 2 ALL FEEDER OR BRANCH CIRCUIT POWER OUTAGES MUST HAVE PRIOR APPROVAL, IN WRITING, BY THE CITY.
- 3 CONTRACTOR SHALL COORDINATE ALL WORK INVOLVING SERVICE FEEDERS WITH PNM.

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: ELECTRICAL PLANS & DIAGRAMS
PHASE I ELECTRICAL RENOVATION
STORM WATER PUMPING STATIONS
CANDELARIA STATION NO. 40

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	2/10/86	Liquid Waste	<i>[Signature]</i>	1/23/86
A.C.E. Design	<i>[Signature]</i>	1/23/86	Traffic	N/A DGP	1/23/86
A.C.E. Hydrology	<i>[Signature]</i>	1/23/86	Water	N/A B12	1/23/86

DRAWING NO.	1647	MAP NO.	G-12	SHEET	16	OF	18
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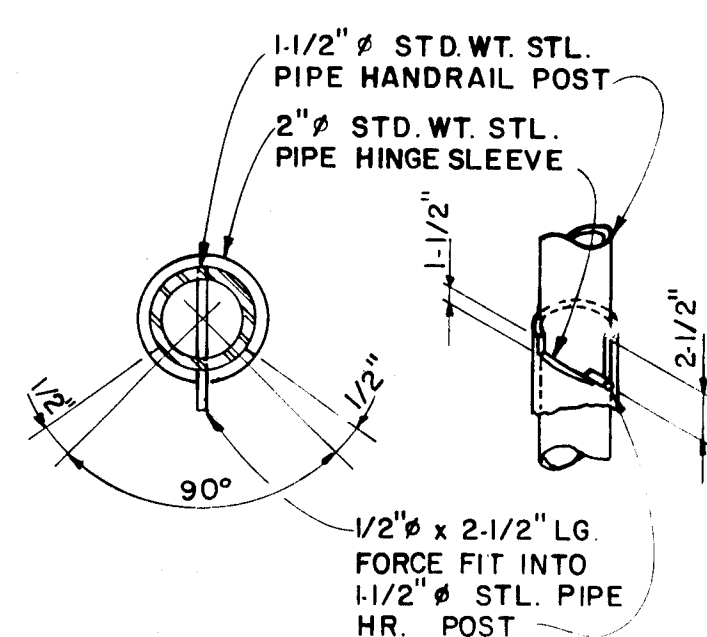
26 16471687

RECORD DRAWING

26 16471787

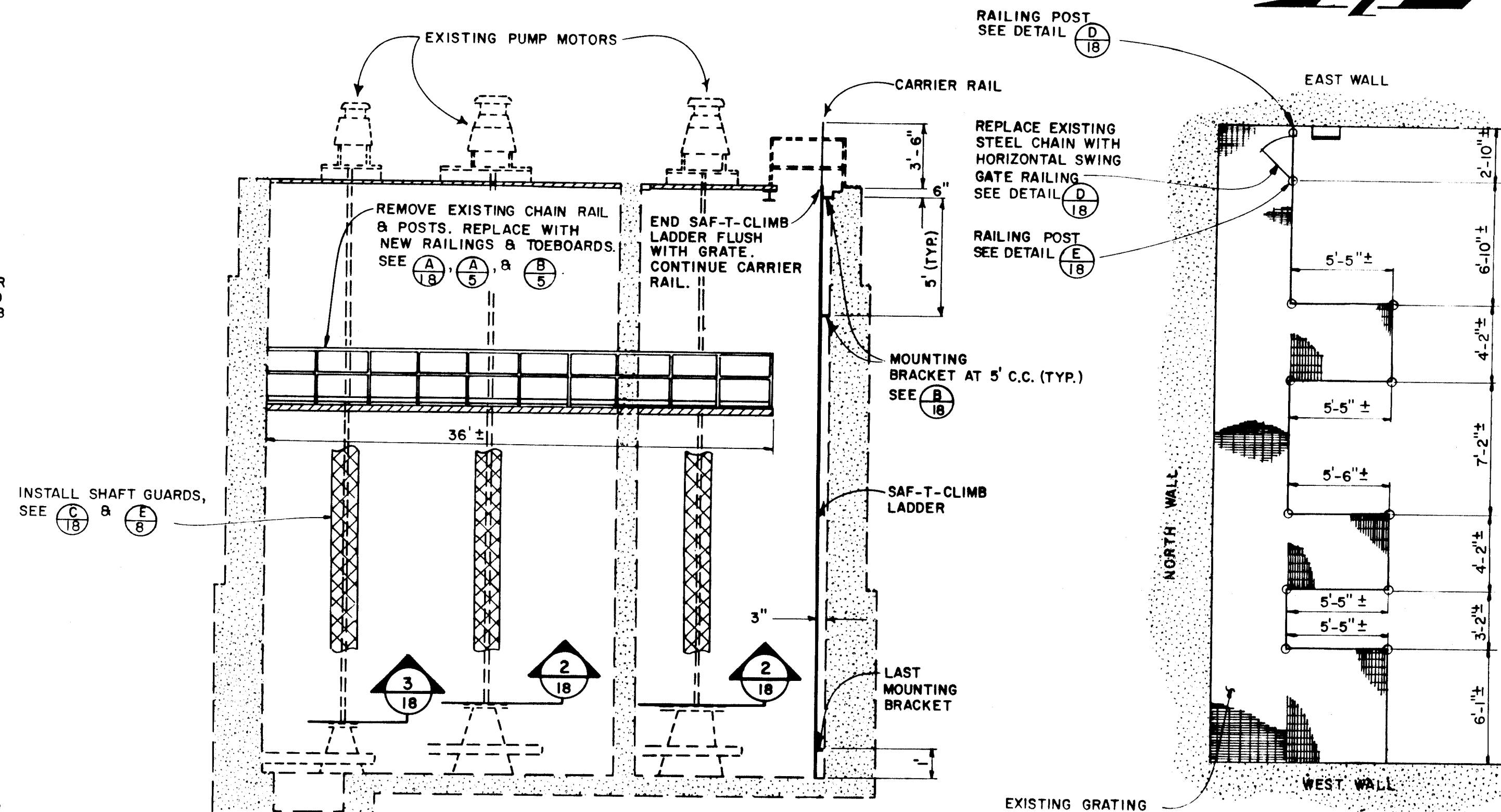


CITY OF ALBUQUERQUE					
MUNICIPAL DEVELOPMENT DEPARTMENT					
ENGINEERING DIVISION					
TITLE: HATCH DETAILS					
PHASE I REHABILITATION					
STORM WATER PUMPING STATION					
BARELAS STATION NO.32					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	2/10/86	Liquid Waste	<i>[Signature]</i>	1-27-86
A-E-Design	<i>[Signature]</i>	1/29/86	Traffic	N/A DAP	1/29/86
A-E-Hydrology	<i>[Signature]</i>	1/23/86	Water	N/A B2	1-25-86
DRAWING NO	1647		MAP NO.	OF	
			L13, 14	SHEET 17A	

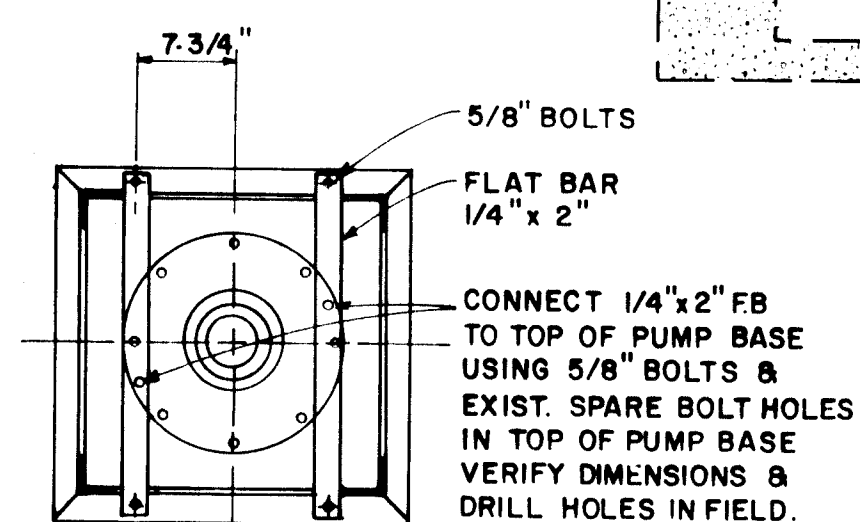


PLAN ELEVATION

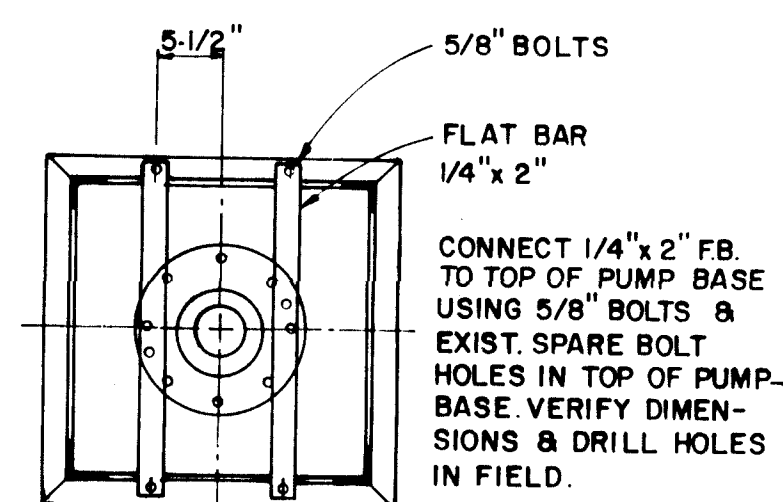
PIPE HINGE SLEEVE



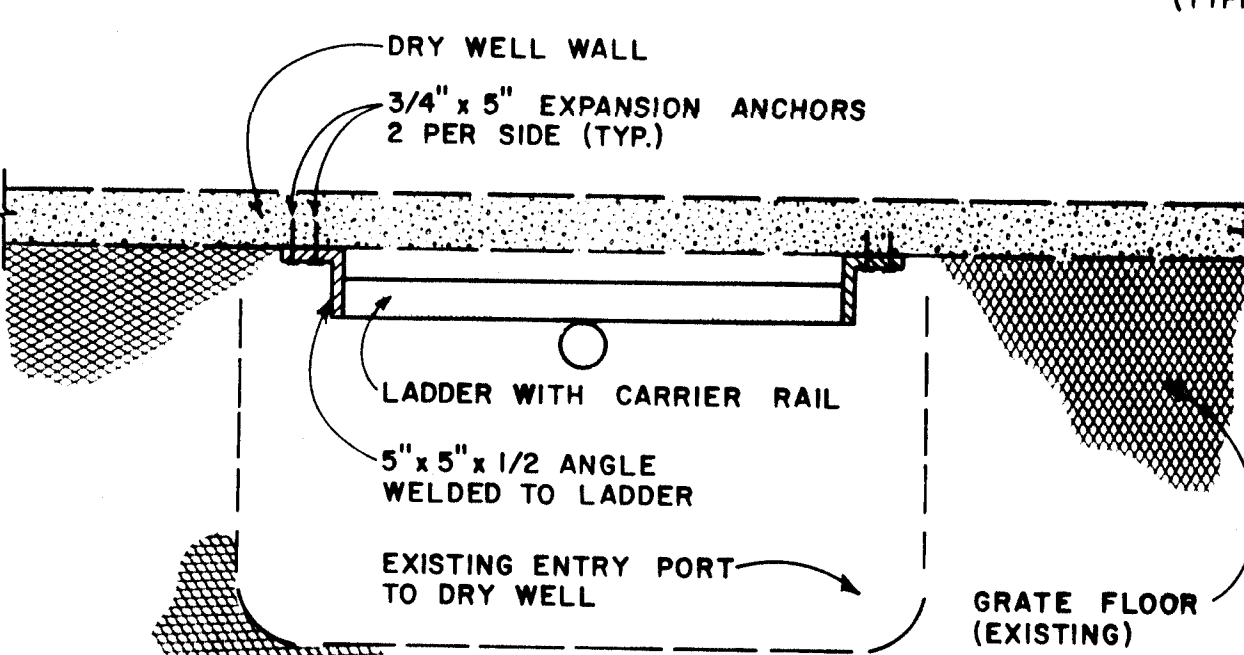
RAILING & TOEBOARD
FLOOR PLAN



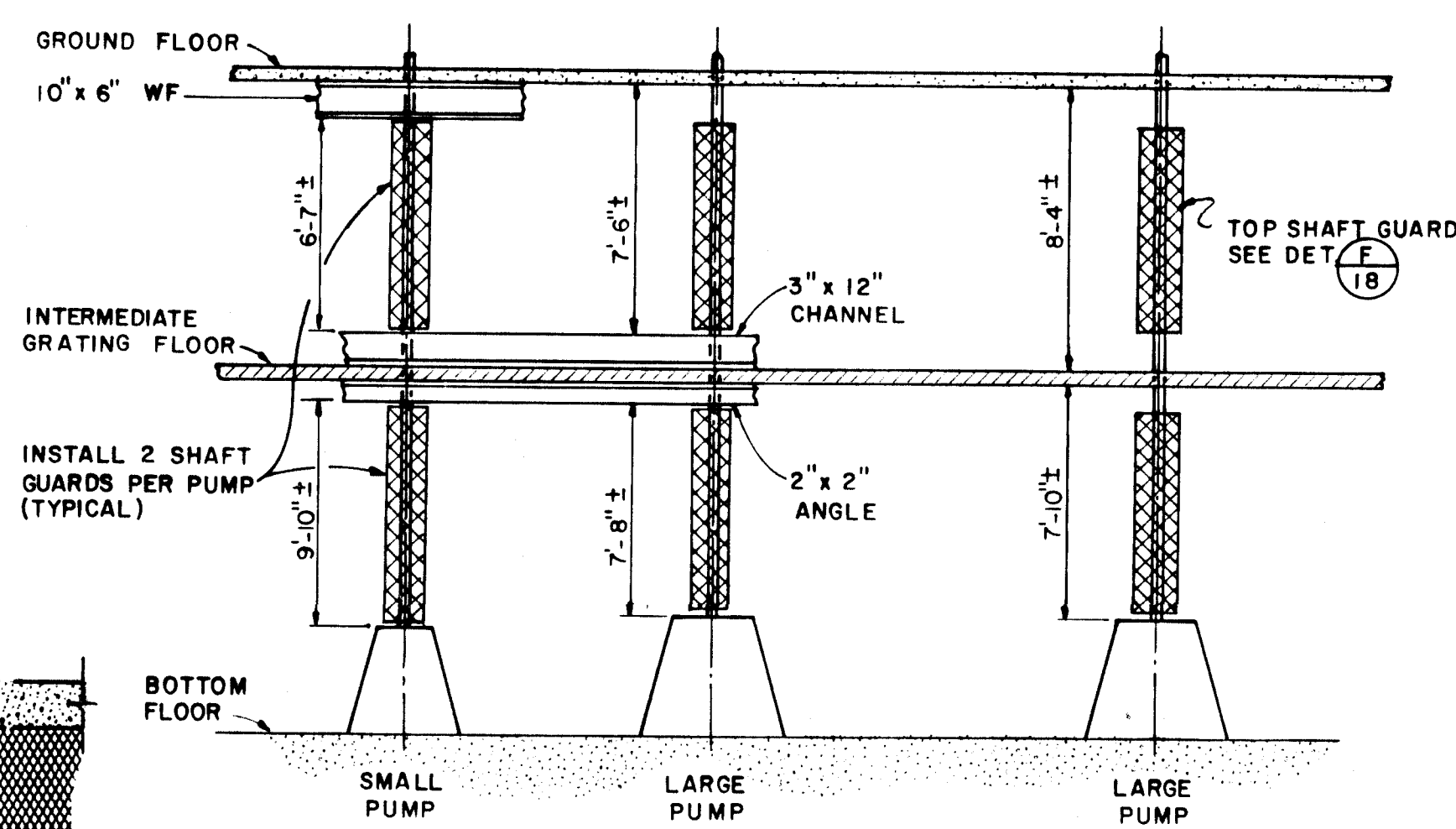
PUMPS #1 & #2



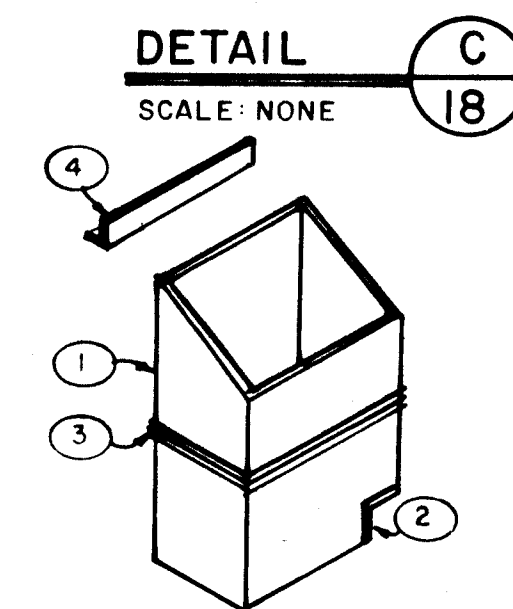
PUMP #3



MOUNTING BRACKET B
SCALE: NONE 18



SHAFT GUARD LENGTHS



DETAIL **F**
SCALE: NONE **18**

NOTES:

1. CONTRACTOR IS TO SUPPLY STATION WITH 2 SAF-T-BELTS AND STORAGE HOOKS FOR USE WITH THE SAF-T-CLIMB LADDER, OR APPROVED EQUAL.

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		☐ CHISELED ON TOP OF CONCRETE CURB AT THE SSW CURB RETURN AT THE INTERSECTION OF BROADWAY BLVD. AND PACIFIC AVE. SE. ELEV. = 4957.997		CONTRACTOR	
		NO.	BY			DATE	CONTRACTOR
							WORK ORDER NO.
							DATE
							ACCEPTANCE BY
							DATE
							VERIFICATION BY
							DATE
							CORRECTED BY
							DATE
							RECORDED BY
							DATE
							NO.

REVISIONS		DESIGN	
DESIGNED BY	MG	DATE	6/84
DRAWN BY	BUG	DATE	6/84
CHECKED BY	SFF	DATE	6/84

STATIONS		DATE	
1	2	1/29/86	1/29/86
3	4	1/29/86	1/29/86
5	6	1/29/86	1/29/86

SHEET		OF	
18	18		