

Prepared by
 HAMMON, JENSEN, WALLEN & ASSOCIATES
 MAPPING AND FORESTRY SERVICES
 OAKLAND, CALIFORNIA
 DATE OF PHOTOGRAPHY 11-26-80

DRAWN BY L.A.M.		HARRIS & ASSOCIATES, INC. CONSULTING ENGINEERS Lafayette, California Submitted by <i>James R. O'Leary</i> 5/1/82 DATE
DEPT. CHECK T.R.L.		
PROJ. CHECK D.L.M.		
NUMBER 1/21/84 DATE	MADE BY G.D.C. I.B. CHECKED BY	RECORD DRAWING REVISIONS DESCRIPTION

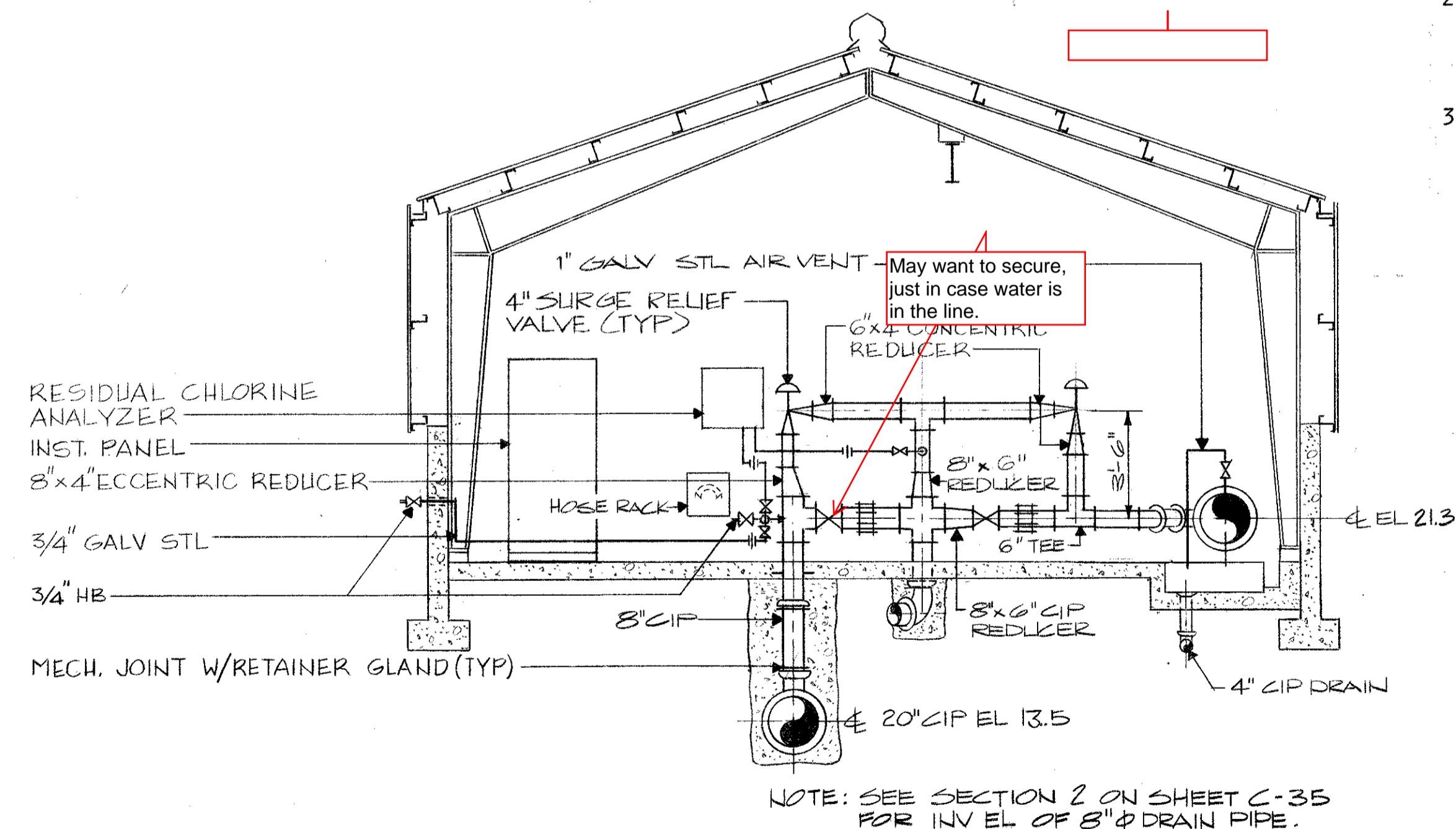
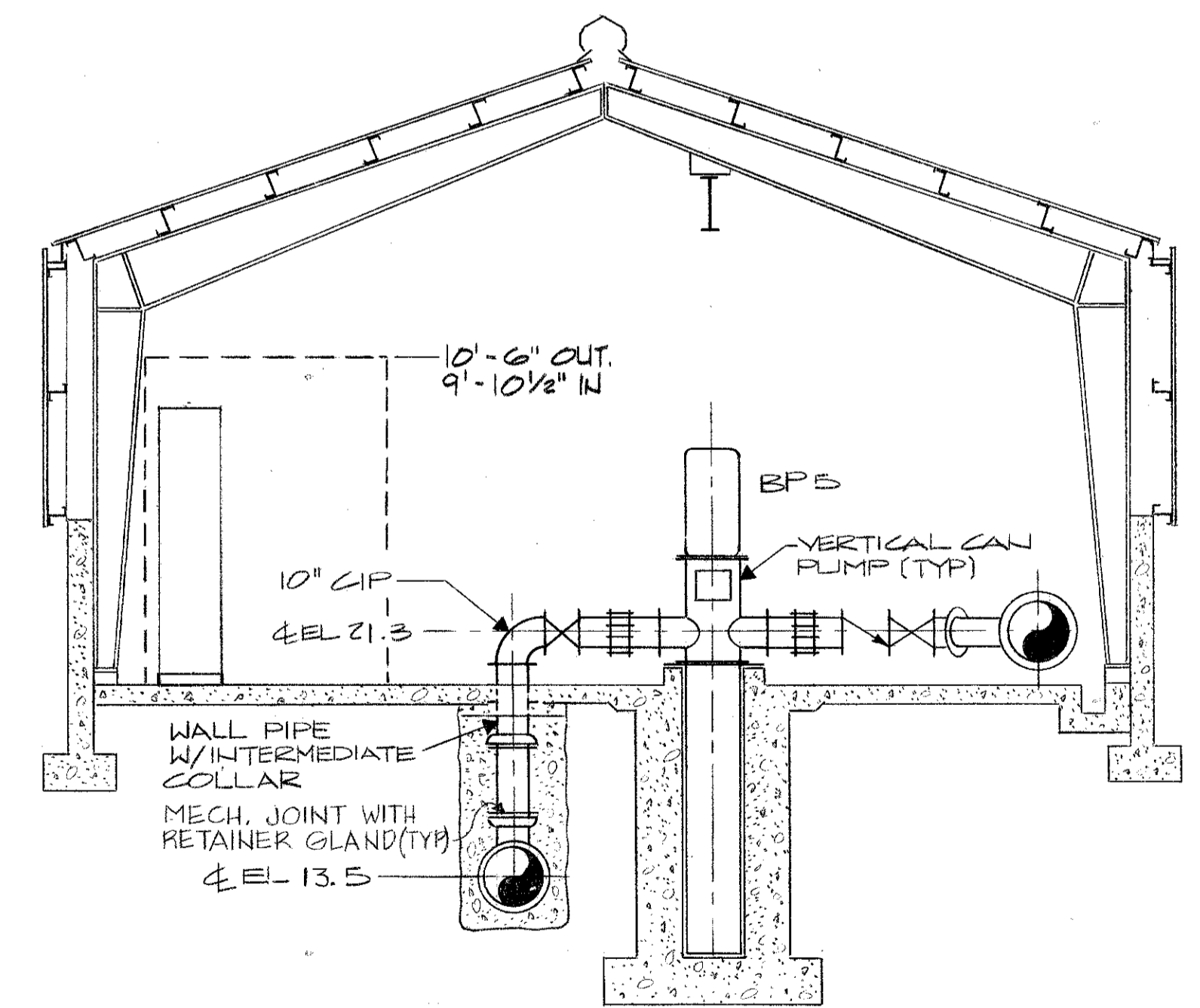
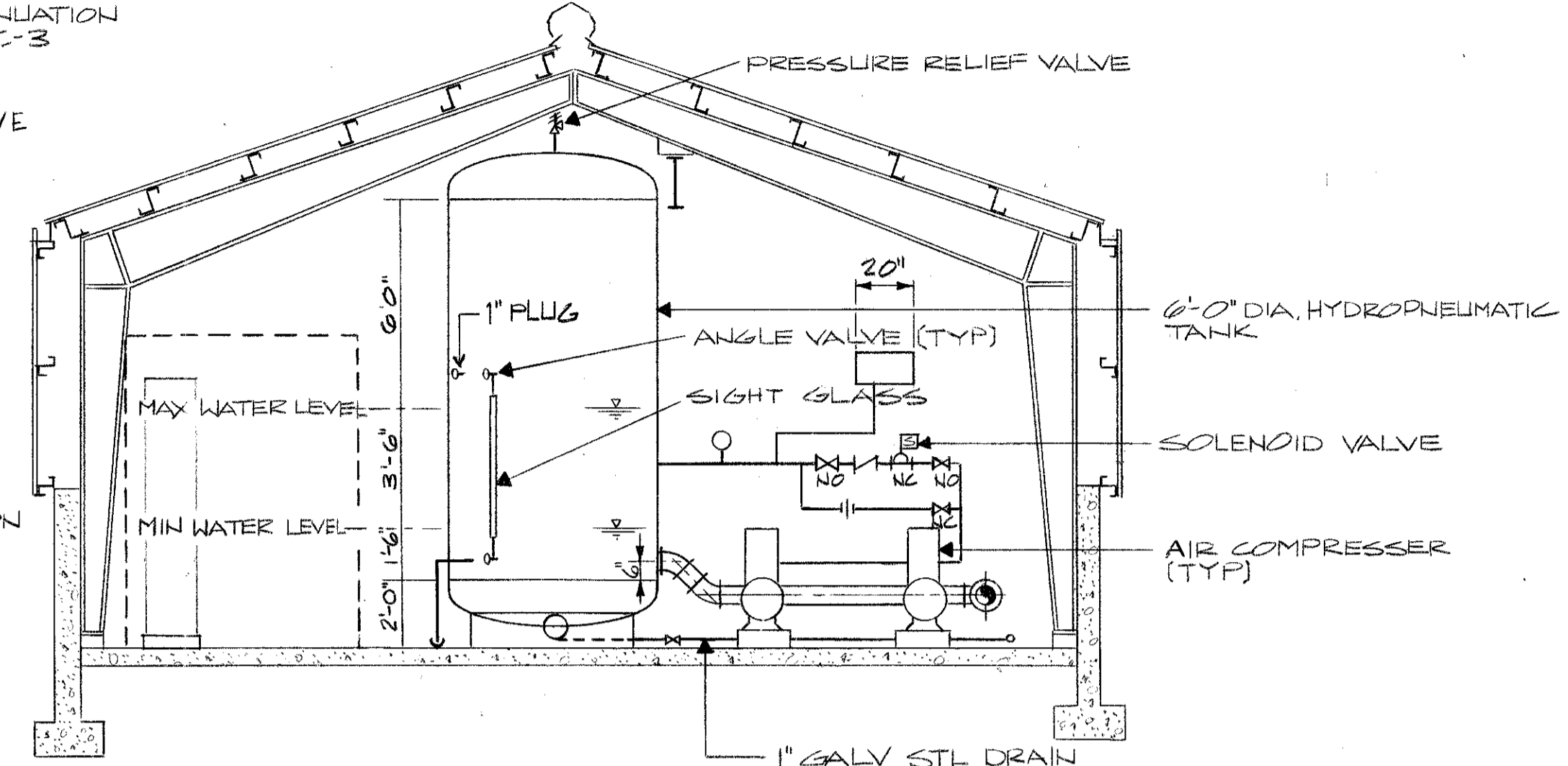
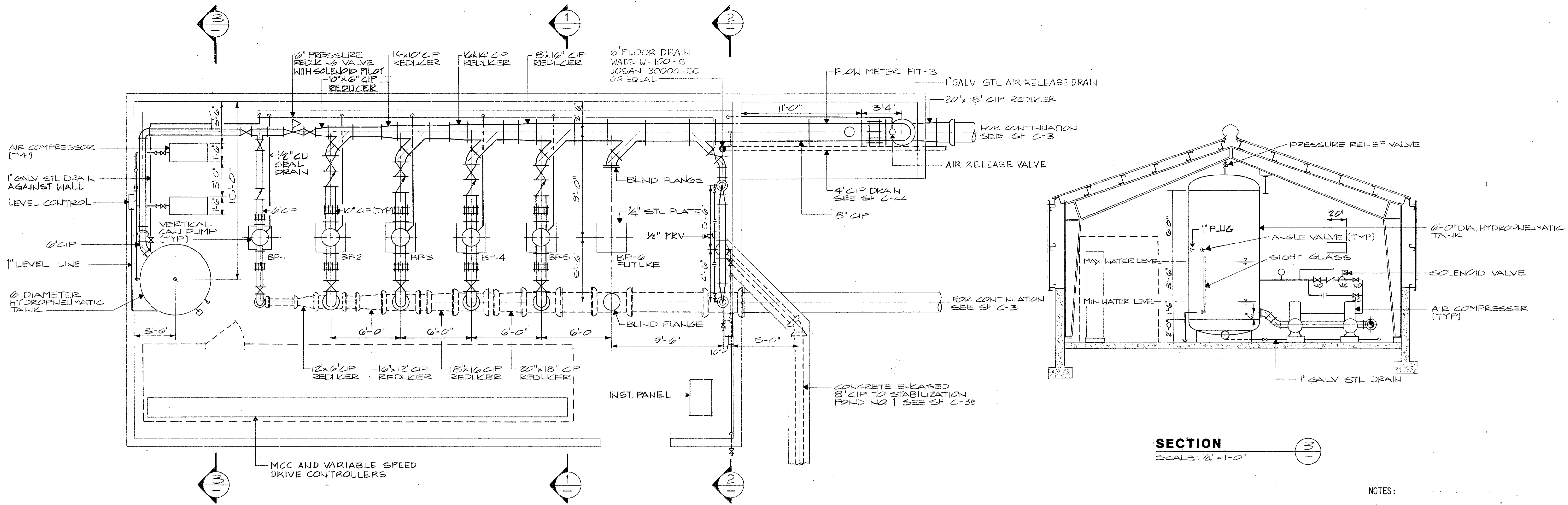
DRAWN BY
 L.A.M.
 DEPT. CHECK
 T.R.L.
 PROJ. CHECK
 D.L.M.

M&E METCALF & EDDY, INC. / ENGINEERS
 BOSTON / NEW YORK / PALO ALTO / CHICAGO
 REG. PROF. ENGR. *Carl F. Johnson* 2-17-82
 DATE

SCALE:
 HORIZ : 1" = 40'
 VERT : 1" = 10'
 UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

CITY OF PETALUMA
 EFFLUENT IRRIGATION SYSTEM
**PLAN & PROFILE
 LAKEVILLE HIGHWAY
 PUMP STATION NO.1 TO STA. 19+50**

JOB 7152.3
 FILE NO. 8028
 SHEET **C-3**
 C-06-2471-100



- NOTES:
1. ALL PIPE UNDER BUILDING SHALL BE CONCRETE ENCASED.
 2. ALL FLEXIBLE COUPLINGS SHALL BE FURNISHED WITH FLANGE CLAMP ASSEMBLIES. SEE DETAIL C-39.
 3. ALL PIPING, VALVES AND FITTINGS ON THE DISCHARGE SIDE OF THE PUMPS SHALL BE RATED FOR 250 PSI WORKING PRESSURE, EXCEPT THAT THE VALVES AND FITTINGS ON THE DISCHARGE SIDE OF PUMP BP-1 TO THE PRESSURE REDUCING VALVE SHALL BE RATED FOR 350 PSI WORKING PRESSURE.

- NOTES:
1. SEE SHEET E-4 FOR LOCATION OF PRESSURE SENSOR TO BE INSTALLED IN THE 18" PIPING.
 2. AT THE CONTRACTOR'S OPTION, THE SUCTION AND DISCHARGE MANIFOLD MAY BE OF STEEL PIPE DESIGNED FOR THE FOLLOWING WORKING PRESSURES:
SUCTION MANIFOLD- 150 PSI
DISCHARGE MANIFOLD- 350 PSI



NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION
	1/21/84	S.D.C.	I.B.	RECORD DRAWING
REVISIONS				

DRAWN BY	L.R. POUND
DEPT. CHECK	<i>De Wng</i>
PROJ. CHECK	C. Schrader

M&E METCALF & EDDY, INC. / ENGINEERS
BOSTON / NEW YORK / PALO ALTO / CHICAGO

Carl F. Schrader
REG. PROF. ENGR.

2-18-82
DATE

SCALE: AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

CITY OF PETALUMA
EFFLUENT IRRIGATION SYSTEM

MECHANICAL

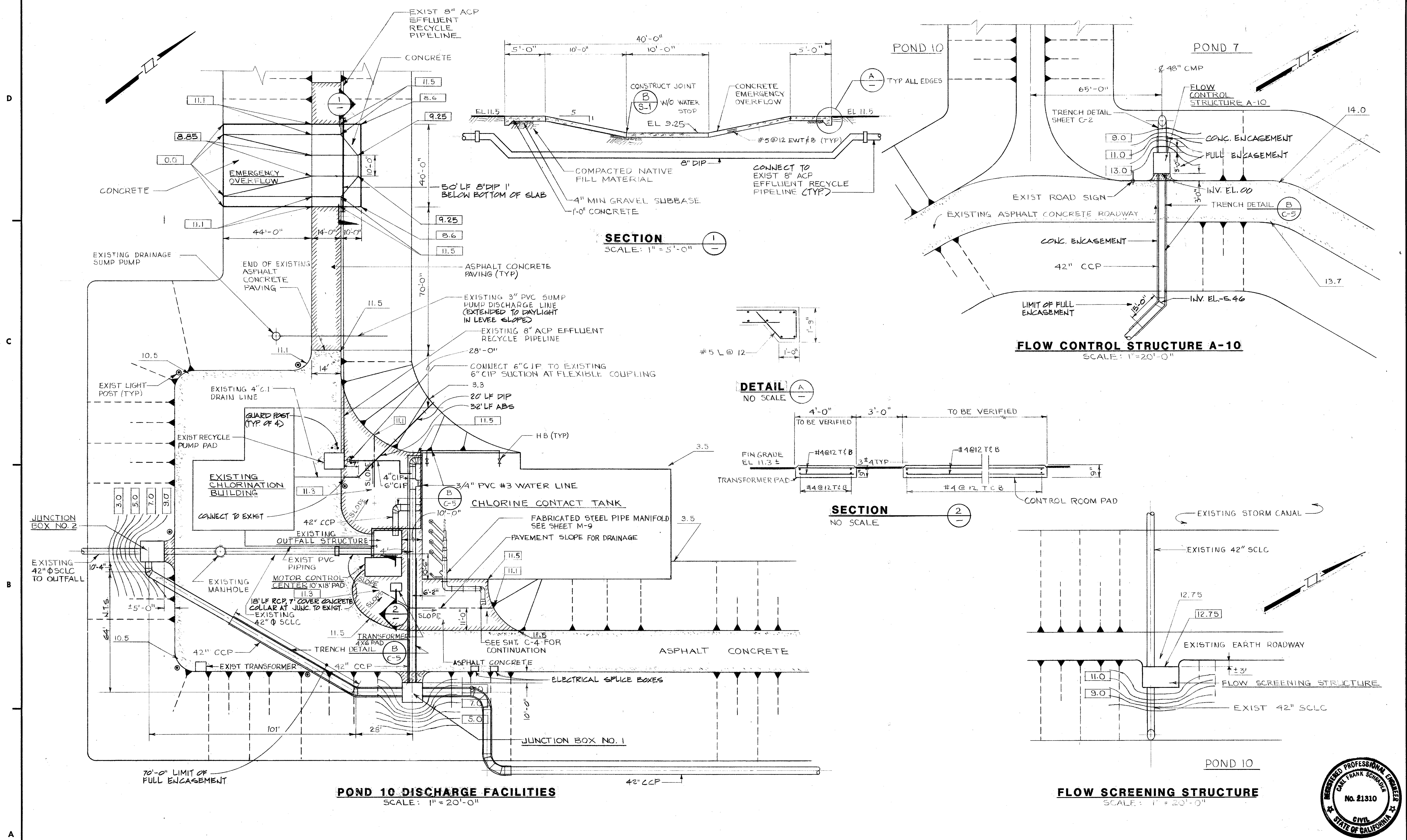
BOOSTER PUMPING STATION NO. 1
PLAN AND SECTIONS

JOB 7152.3

FILE NO.

SHEET **M-1**

C-06-2471-100



NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION
2/14/84	S.D.C.	C.F.S.		RECORD DRAWING
REVISIONS				

DRAWN BY S.D.C.
DEPT. CHECK <i>DeWjy</i>
PROJ. CHECK C. Schrader

M&E METCALF & EDDY, INC. / ENGINEERS
BOSTON / NEW YORK / PALO ALTO / CHICAGO

REG. PROF. ENGR. *Cal F. Schrader*

2-18-82 DATE

SCALE: AS SHOWN

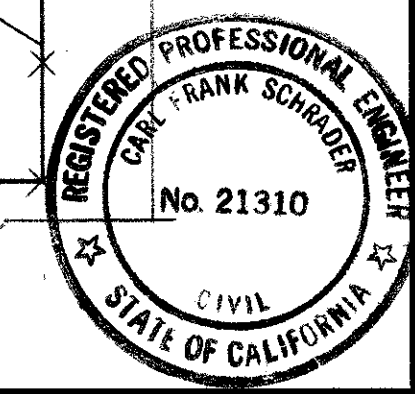
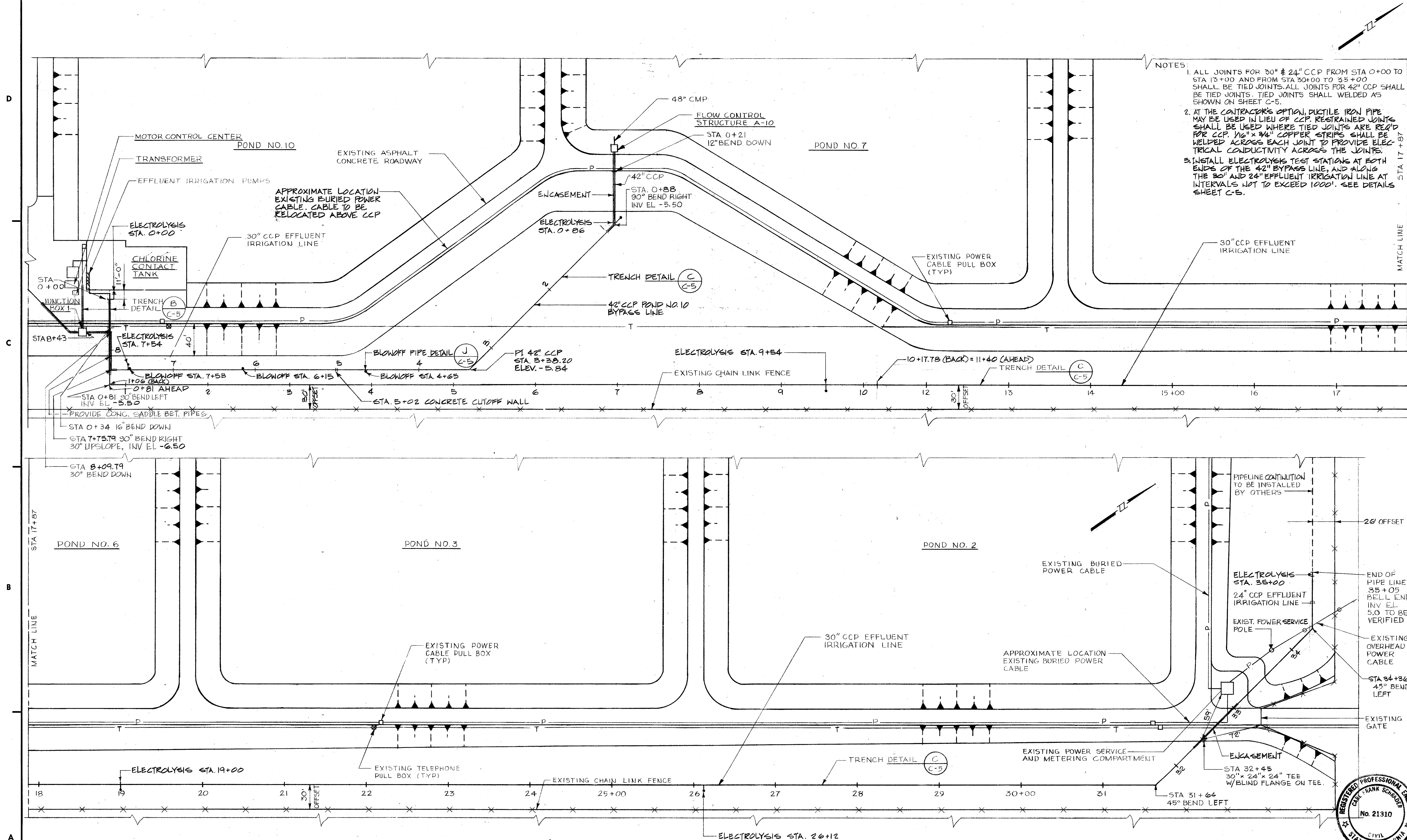
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

CITY OF PETALUMA
WASTEWATER TREATMENT PLANT UPGRADE
CIVIL
EFFLUENT DISCHARGE FACILITIES
PAVING, GRADING, AND PIPING

JOB 7152.3
FILE NO.
SHEET C-3



- NOTES:
1. ALL JOINTS FOR 30" # 24" CCP FROM STA 0+00 TO STA 13+00 AND FROM STA 30+00 TO 35+00 SHALL BE TIED JOINTS. ALL JOINTS FOR 42" CCP SHALL BE TIED JOINTS. TIED JOINTS SHALL WELDED AS SHOWN ON SHEET C-5.
 2. AT THE CONTRACTOR'S OPTION, DUCTILE IRON PIPE MAY BE USED IN LIEU OF CCP. RESTRAINED JOINTS SHALL BE USED WHERE TIED JOINTS ARE REQ'D FOR CCP. 1/2" x 3/4" COPPER STRIPS SHALL BE WELDED ACROSS EACH JOINT TO PROVIDE ELECTRICAL CONDUCTIVITY ACROSS THE JOINTS.
 3. INSTALL ELECTROLYSIS TEST STATIONS AT BOTH ENDS OF THE 42" BYPASS LINE, AND ALONG THE 30" AND 24" EFFLUENT IRRIGATION LINE AT INTERVALS NOT TO EXCEED 1000'. SEE DETAILS SHEET C-5.



NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION
2/14/84	G.D.C.	C.F.S.		RECORD DRAWING
REVISIONS				

DRAWN BY S.D.C.
DEPT. CHECK <i>[Signature]</i>
PROJ. CHECK C. Schreier

M&E METCALF & EDDY, INC. / ENGINEERS
 BOSTON / NEW YORK / PALO ALTO / CHICAGO

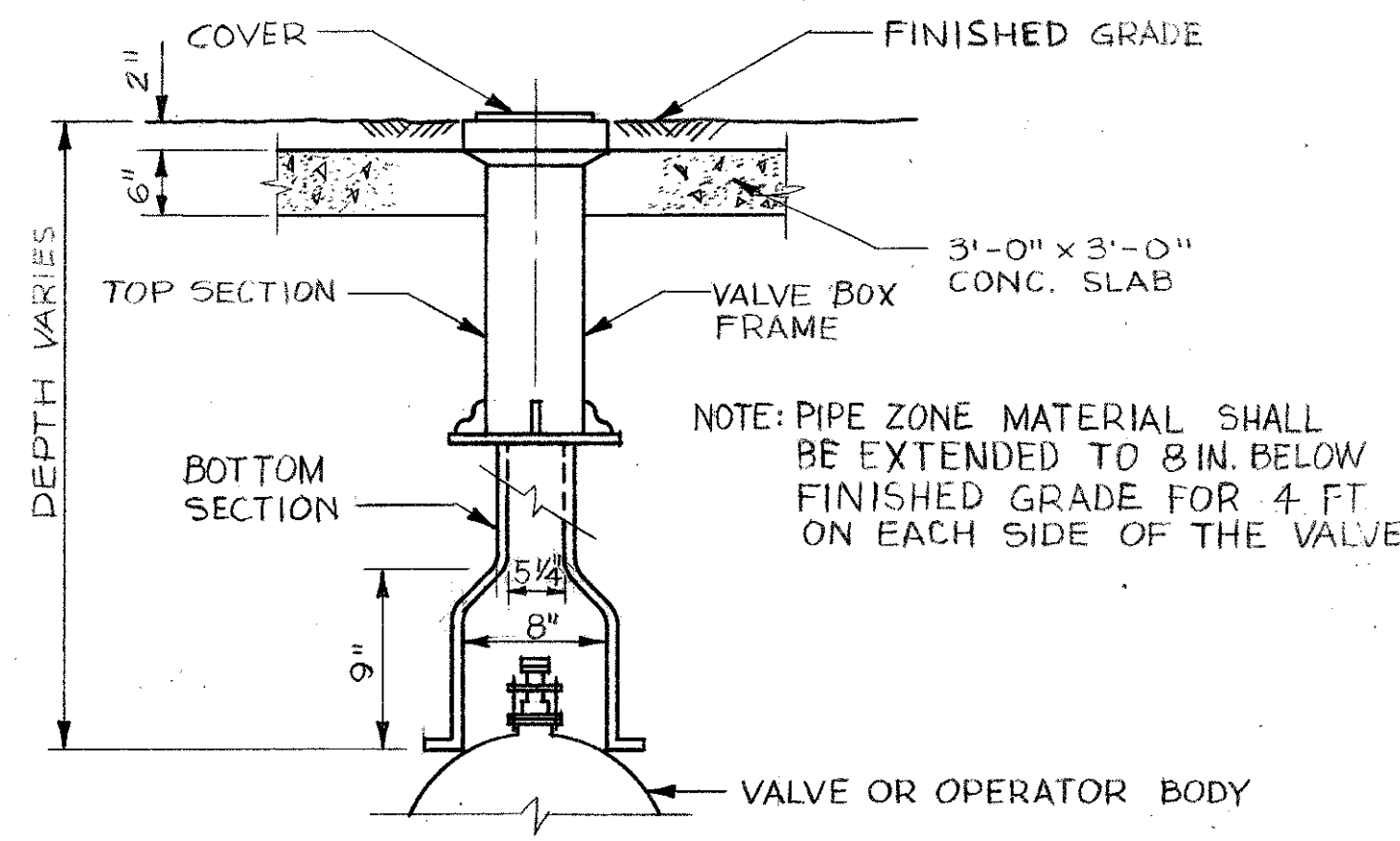
SCALE: 1" = 50'-0"

2-18-82 DATE

REG. PROF. ENGR.

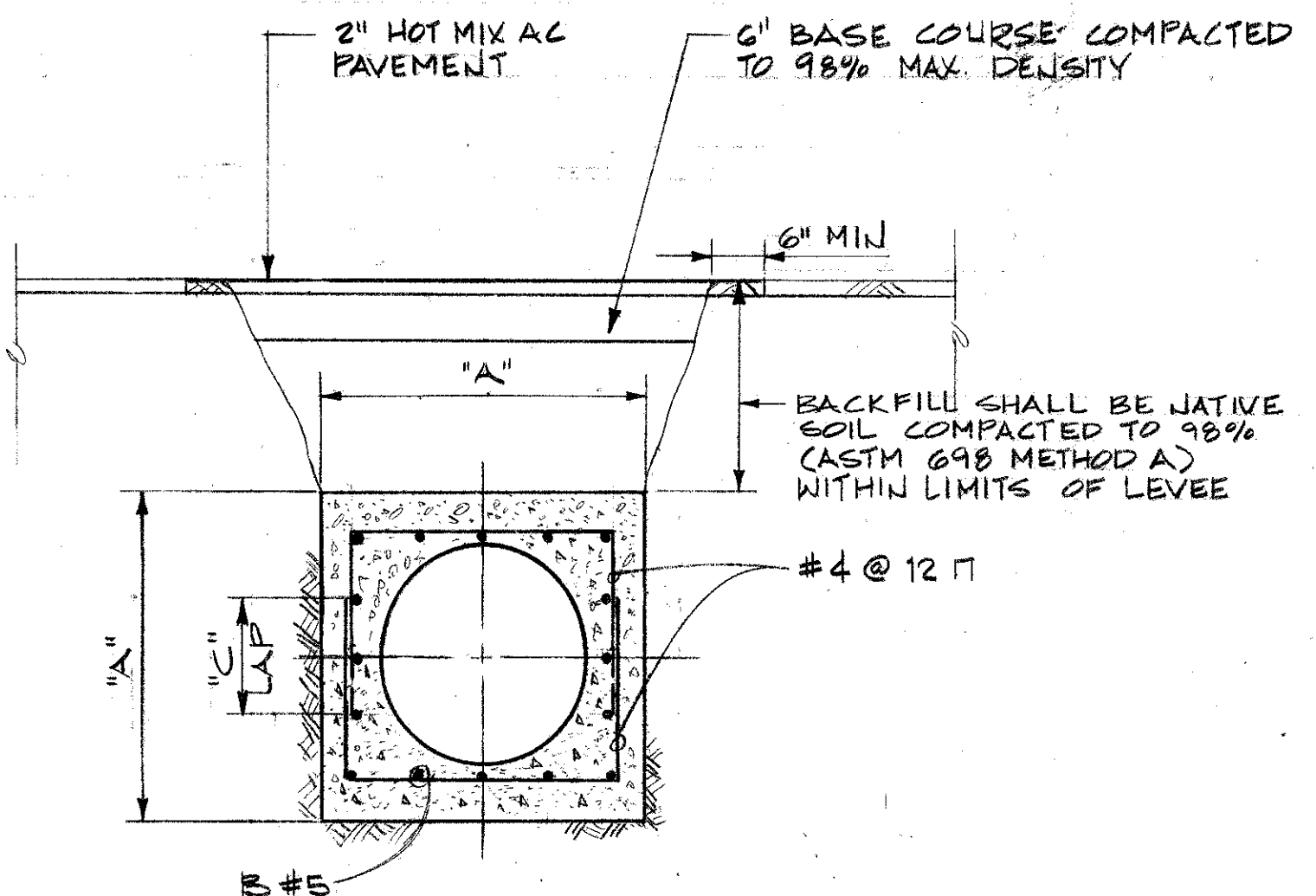
CITY OF PETALUMA
 WASTEWATER TREATMENT PLANT UPGRADE
 CIVIL
 STABILIZATION PONDS
 OUTSIDE PIPING

JOB 7152.3
FILE NO.
SHEET C-4
C-06-2471-100

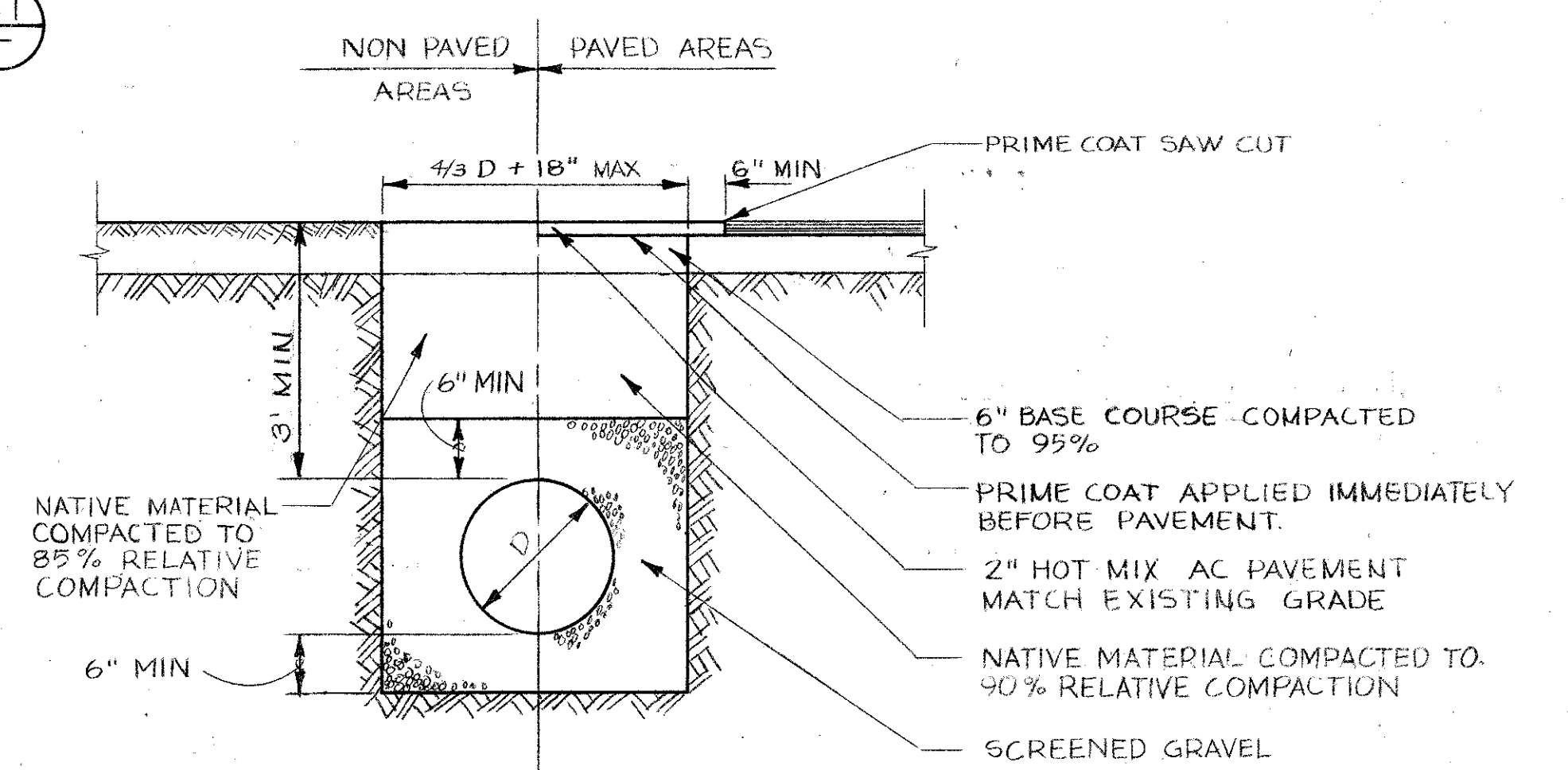
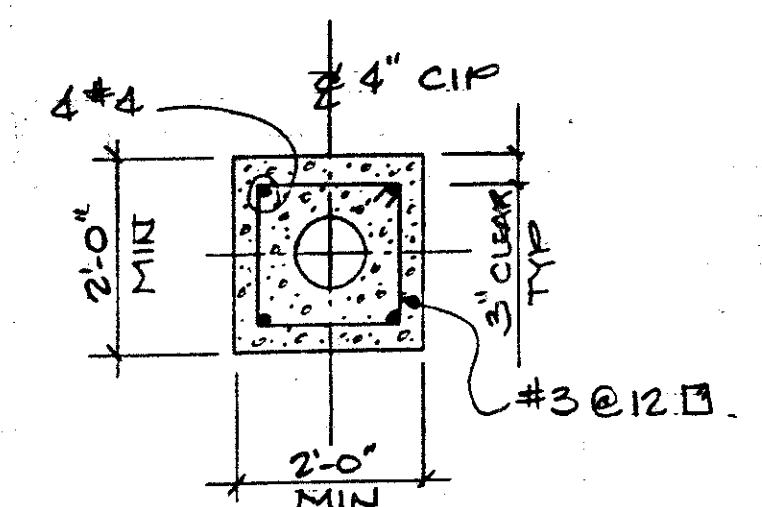


TYPICAL VALVE BOX DETAIL
NO SCALE

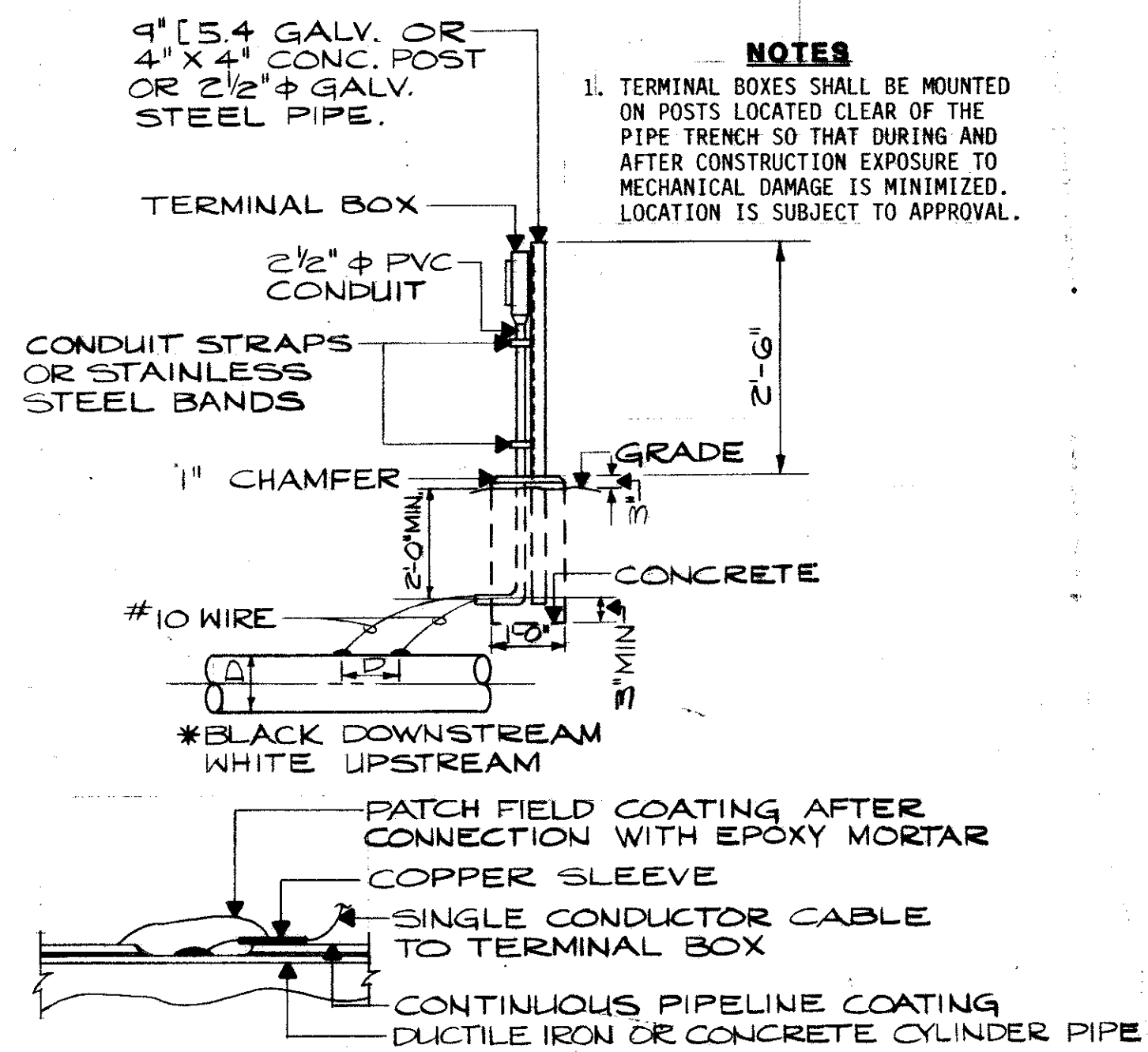
	A	B	C	D
4"	SEE DETAIL B1			
24"	3'-9"	12	2'-5"	
30"	4'-3"	16	2'-5"	
42"	5'-4"	16	3'-0"	



CCP PENETRATION THROUGH LEVEE
DETAIL B1
NO SCALE

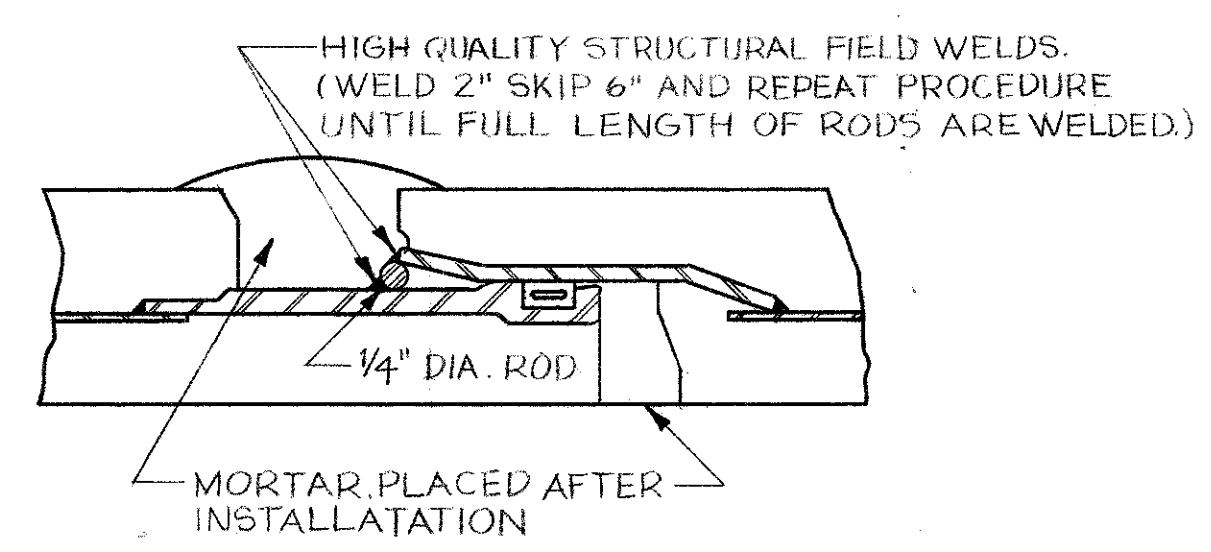


TYPICAL PIPE TRENCH SECTION
DETAIL C
NO SCALE

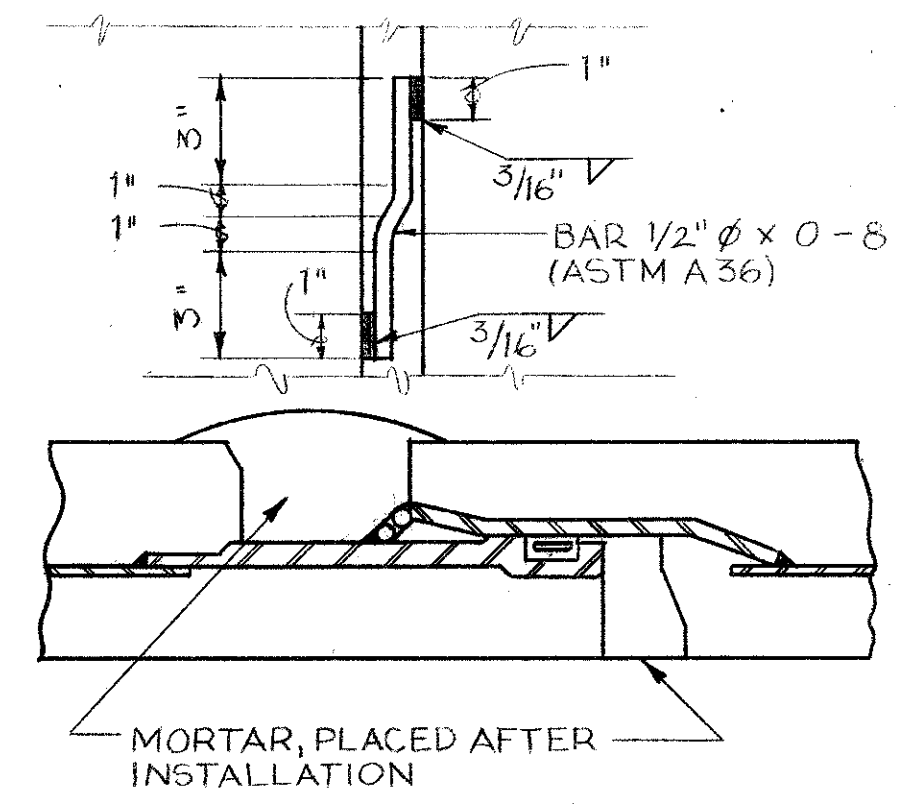


- EXOTHERMIC WELDING INSTRUCTIONS**
1. REMOVE ANY PIPE COATING FROM A SPOT ON TOP OF PIPE JOINT APPROXIMATELY 1/4" LARGER THAN MOLD BASE.
 2. CLEAN PIPE TO BRIGHT METAL FOR APPROXIMATELY 1 1/2" DIA. SPOT.
 3. REMOVE 1/4" OF INSULATION FROM END OF CABLE. CRIMP 3/8" LONG COPPER SLEEVE ON #10 AWG ONLY.
 4. WELD CONDUCTOR TO PIPE USING APPROVED CARTRIDGE.
 5. TEST THE CONNECTION BY STRIKING THE CONNECTION SEVERAL BLOWS ON THE SIDE USING A 1LB. HAMMER. TOP OF WELD MAY BE HAMMERED FLAT IF REQUIRED.

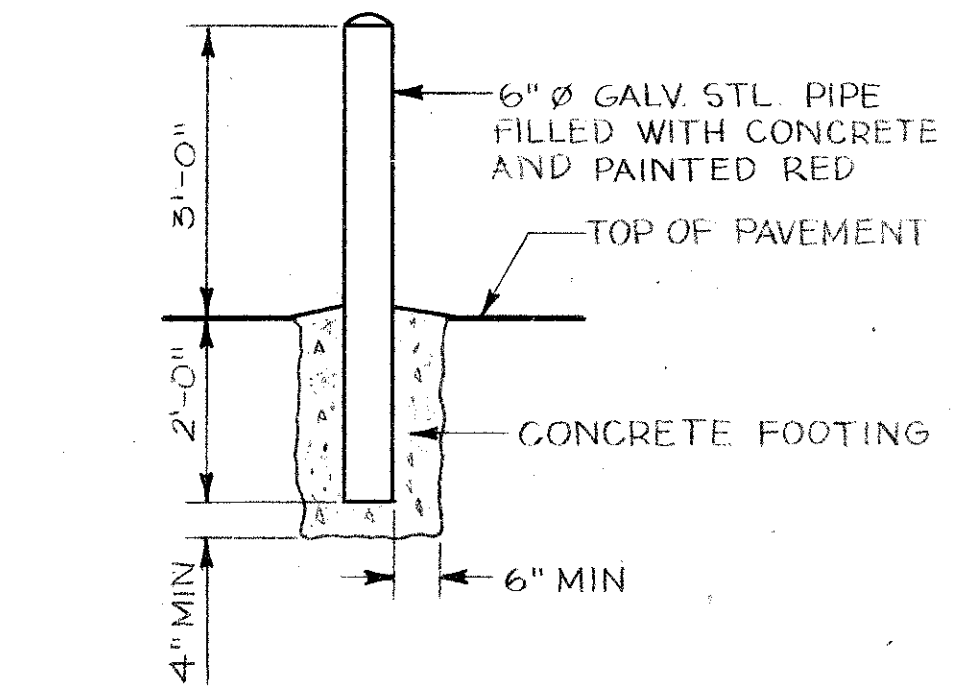
ELECTROLYSIS TEST STATION
NO SCALE



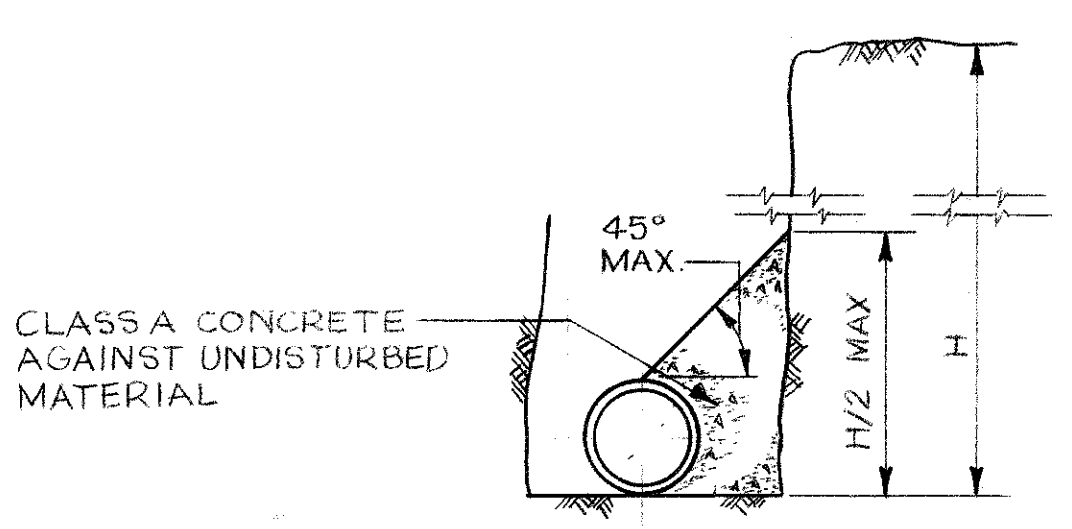
FIELD WELD DETAIL
NO SCALE



CCP BONDING JUMPER
DETAIL H
NO SCALE



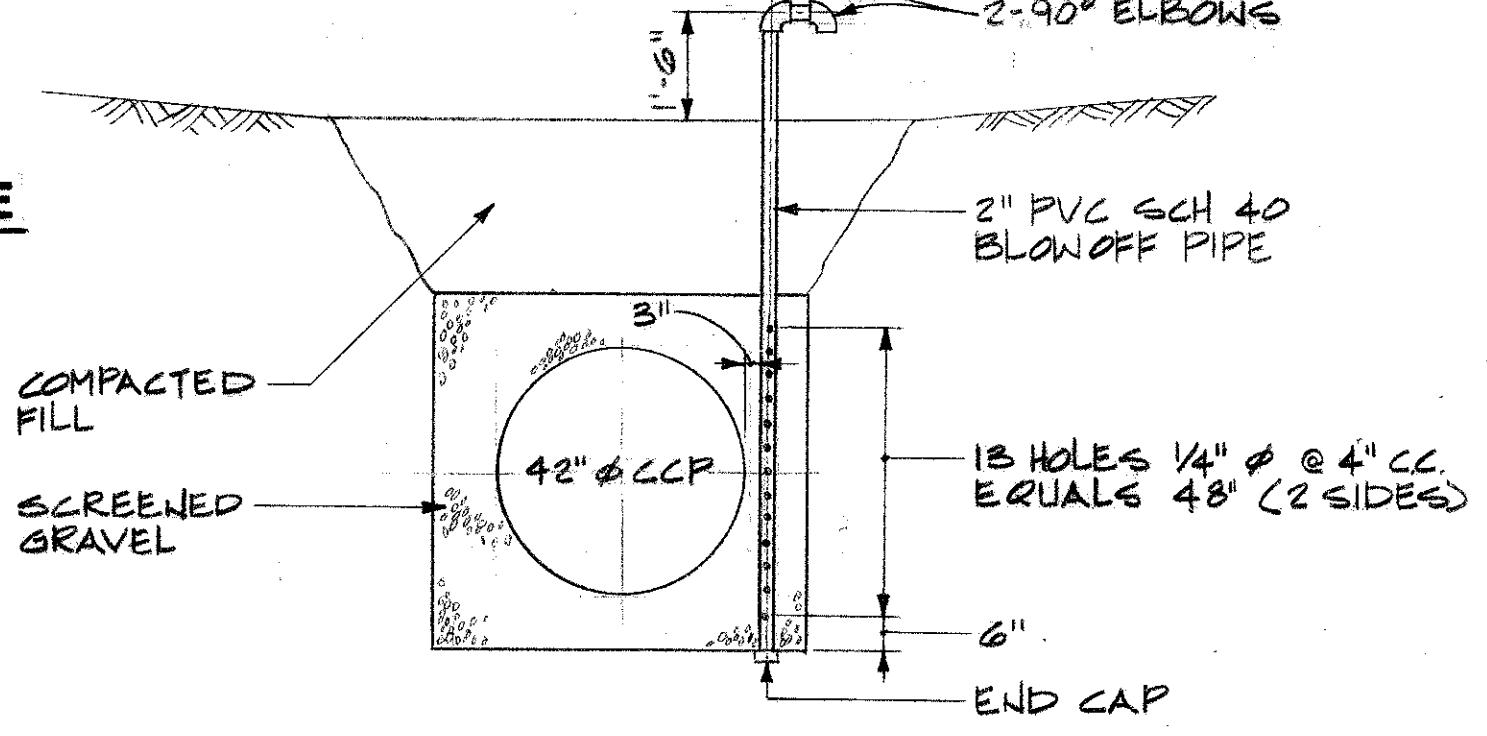
GUARDPOST DETAIL
SCALE: 1/2" = 1'-0"



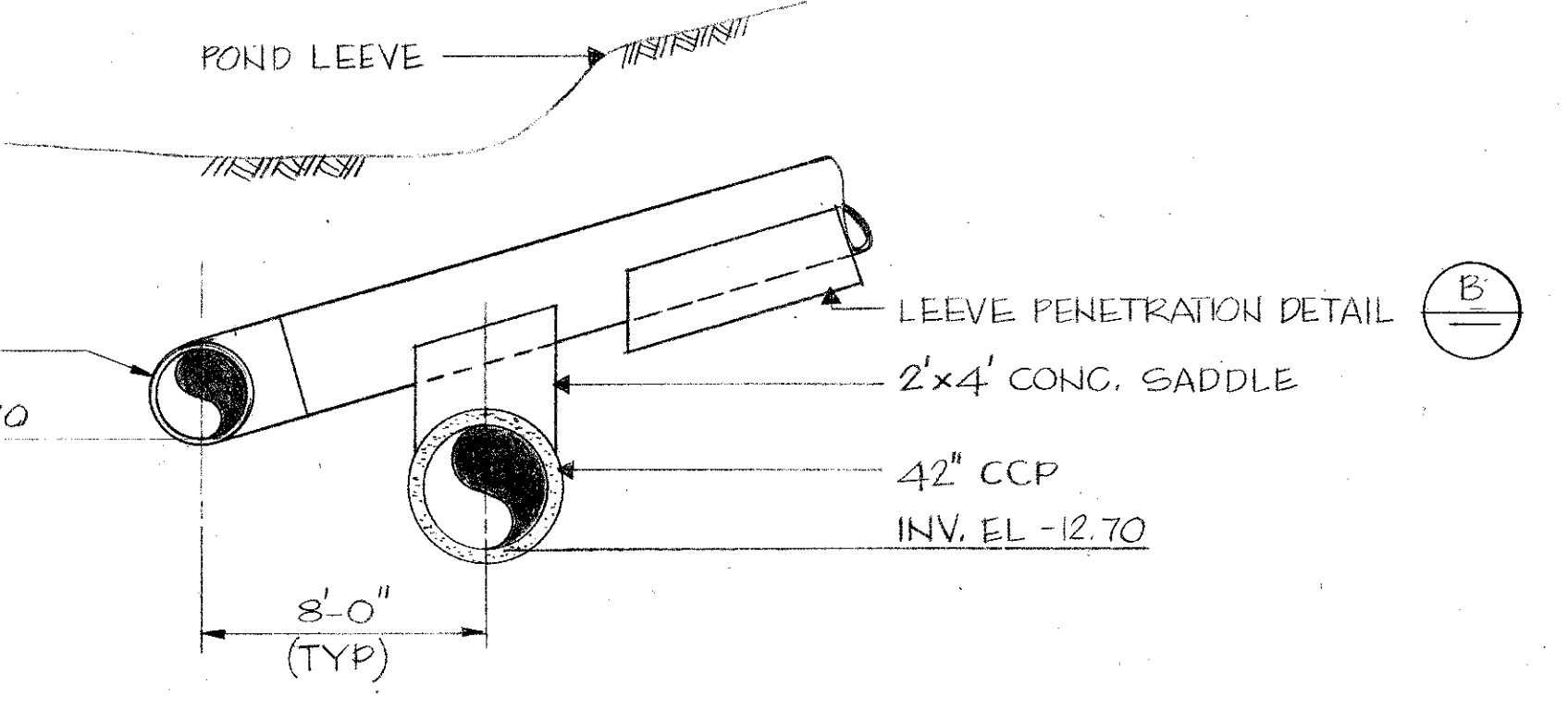
THRUST BLOCK FOR 6" CI PIPE
DETAIL E
NO SCALE

THRUST BLOCK MINIMUM BEARING AREAS FOR 6" PIPE

LOCATION	MINIMUM BEARING AREA (f+2)
90 DEG. BENDS	2.5
TEES	1.5
45 DEG. BENDS	1.5
22 1/2 DEG. BENDS	1.5
ALL OTHERS	1.5



BLOW OFF PIPE DETAIL
SCALE: 3/8" = 1'-0"



SECTION 3
SCALE: 1" = 5'-0"



DRAWN BY				S.D.C.			
DEPT. CHECK				<i>D. Wong</i>			
PROJ. CHECK				C. Schrader			
NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS	DESCRIPTION		
2/14/84	S.D.C.	C.F.S.		RECORD DRAWING			

DRAWN BY		S.D.C.	
DEPT. CHECK		<i>D. Wong</i>	
PROJ. CHECK		C. Schrader	

M&E METCALF & EDDY, INC. / ENGINEERS
BOSTON / NEW YORK / PALO ALTO / CHICAGO

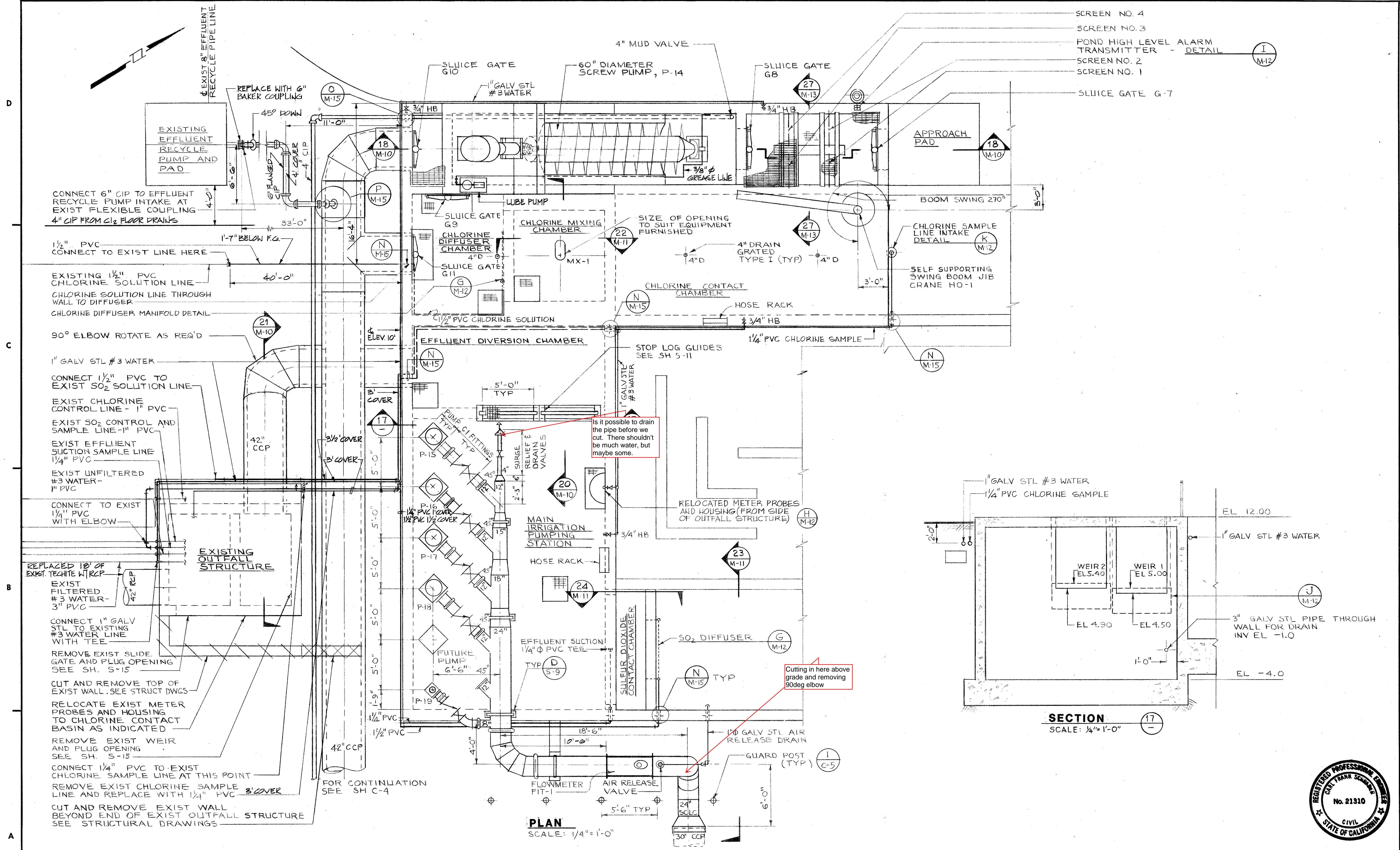
Cal 7 Schneider
REG. PROF. ENGR. 2-18-82 DATE

SCALE: AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

CITY OF PETALUMA
WASTEWATER TREATMENT PLANT UPGRADE
CIVIL
CIVIL DETAILS

JOB 7152.3
FILE NO.
SHEET C-5
C-06-2471-100



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

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

Is it possible to drain the pipe before we cut. There shouldn't be much water, but maybe some.

Cutting in here above grade and removing 90deg elbow

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS	DESCRIPTION
2/14/84	E.D.C.	C.F.S.		RECORD DRAWING	

DRAWN BY HOLLAND
DEPT. CHECK <i>Dealy</i>
PROJ. CHECK C. Schrader

M&E METCALF & EDDY, INC. / ENGINEERS
 BOSTON / NEW YORK / PALO ALTO / CHICAGO

Carl F. Schrader
 REG. PROF. ENGR. 2-18-82 DATE

SCALE: AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

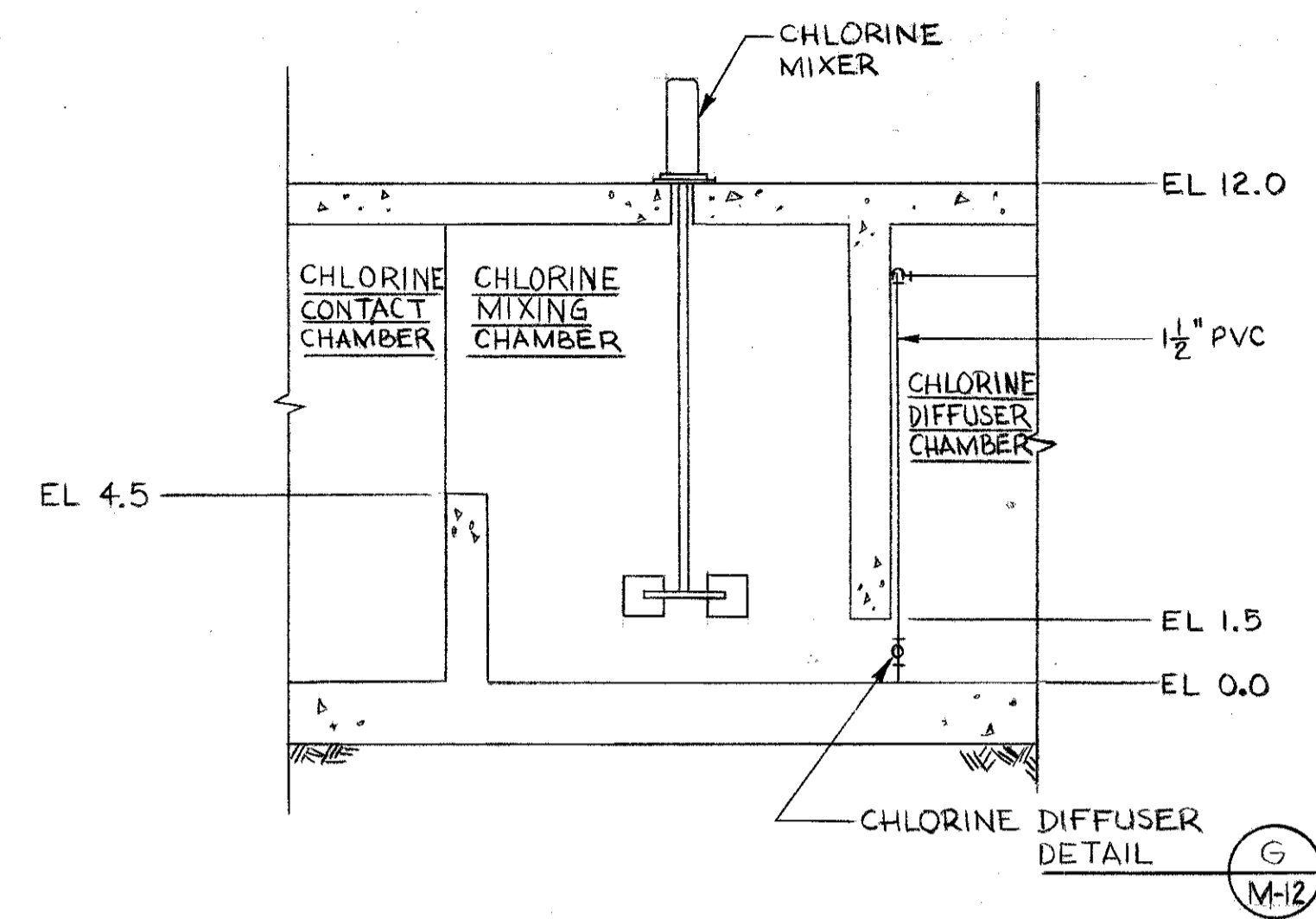
CITY OF PETALUMA
 WASTEWATER TREATMENT PLANT UPGRADE

MECHANICAL

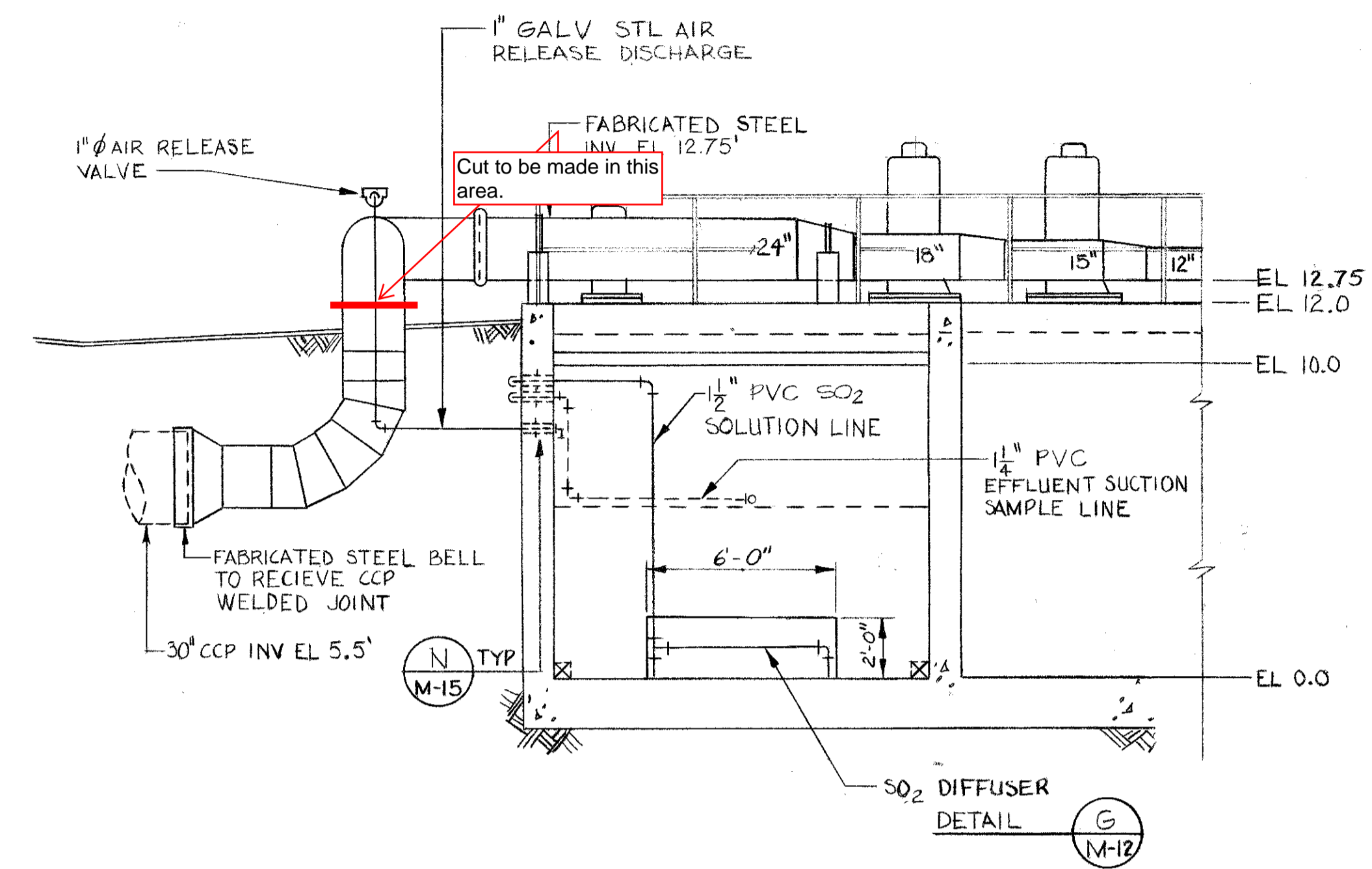
**STABILIZATION PONDS
 EFFLUENT DISCHARGE FACILITIES
 PLAN AND SECTION**

JOB 7152.3
FILE NO.
SHEET M-9
C-06-2471-190

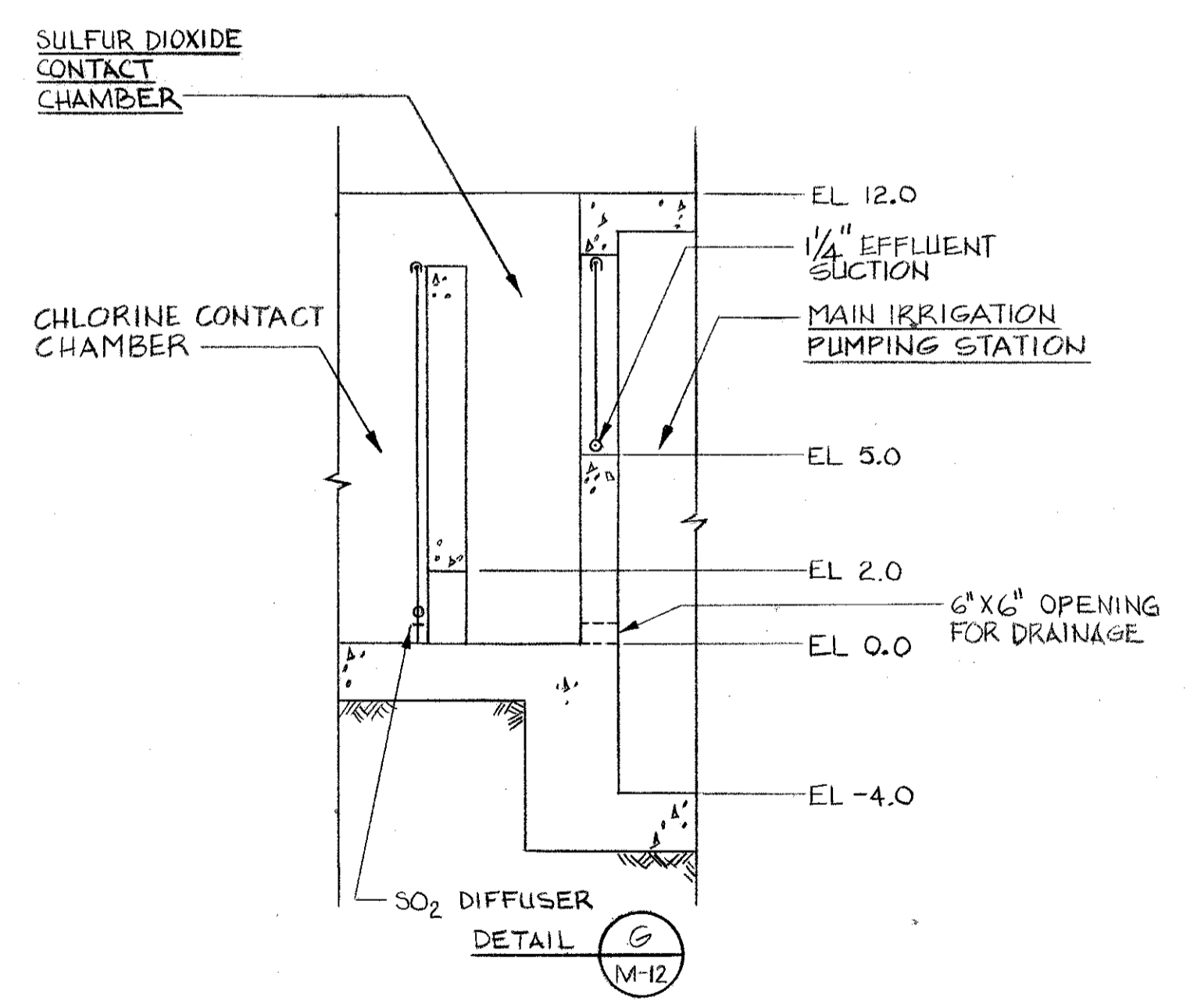




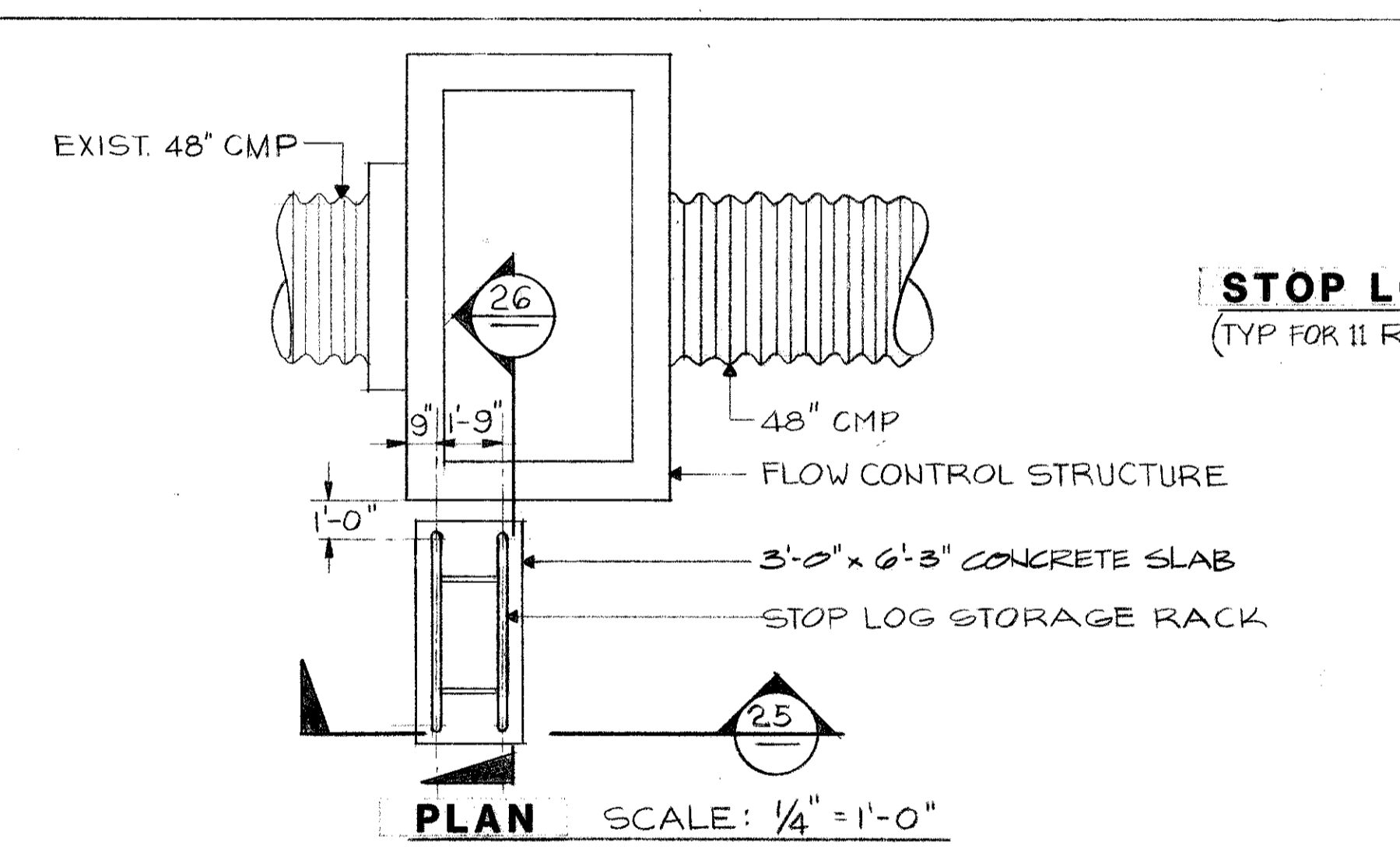
SECTION 22
SCALE: 1/4" = 1'-0"



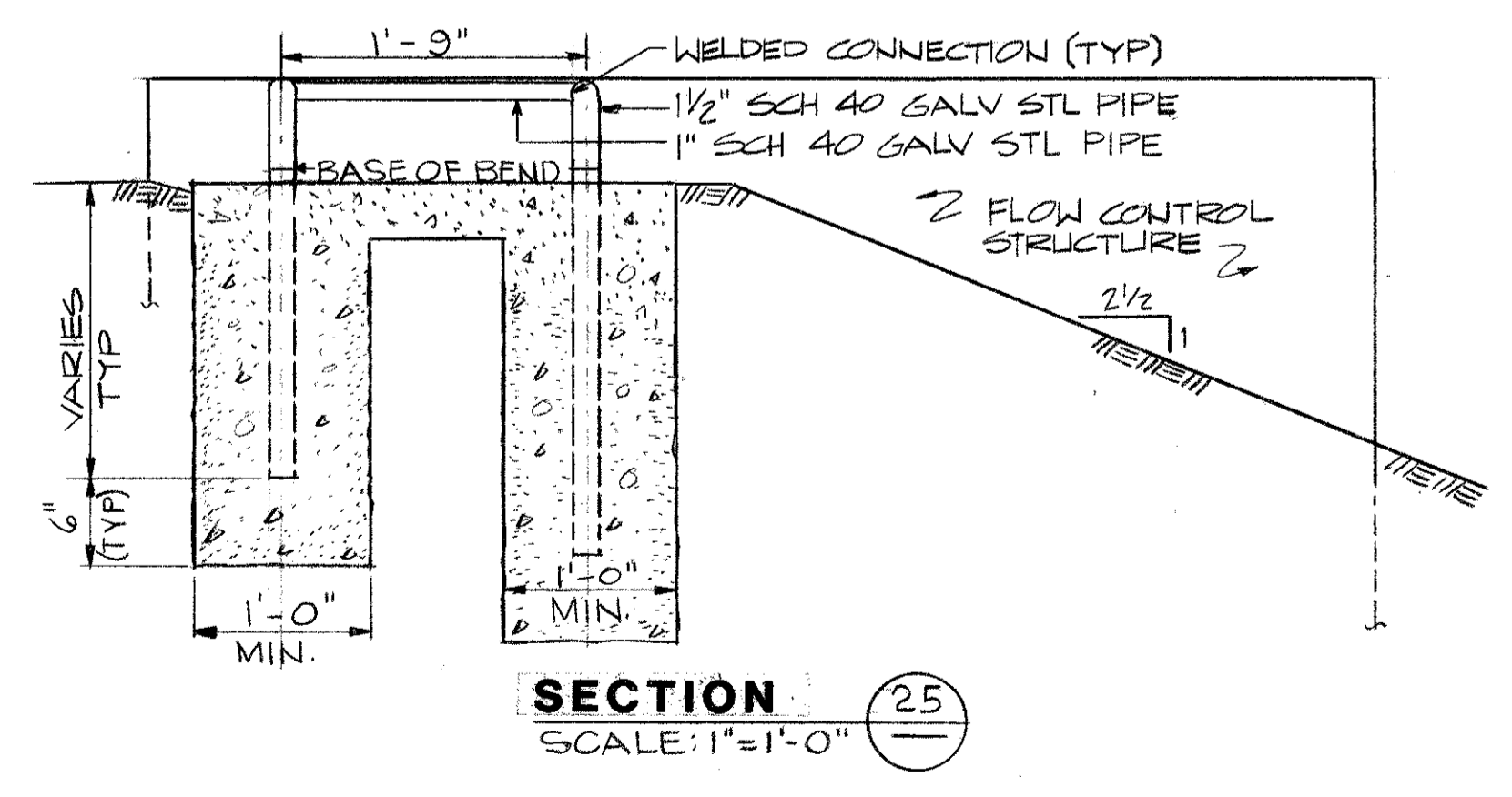
SECTION 23
SCALE: 1/4" = 1'-0"



SECTION 24
SCALE: 1/4" = 1'-0"

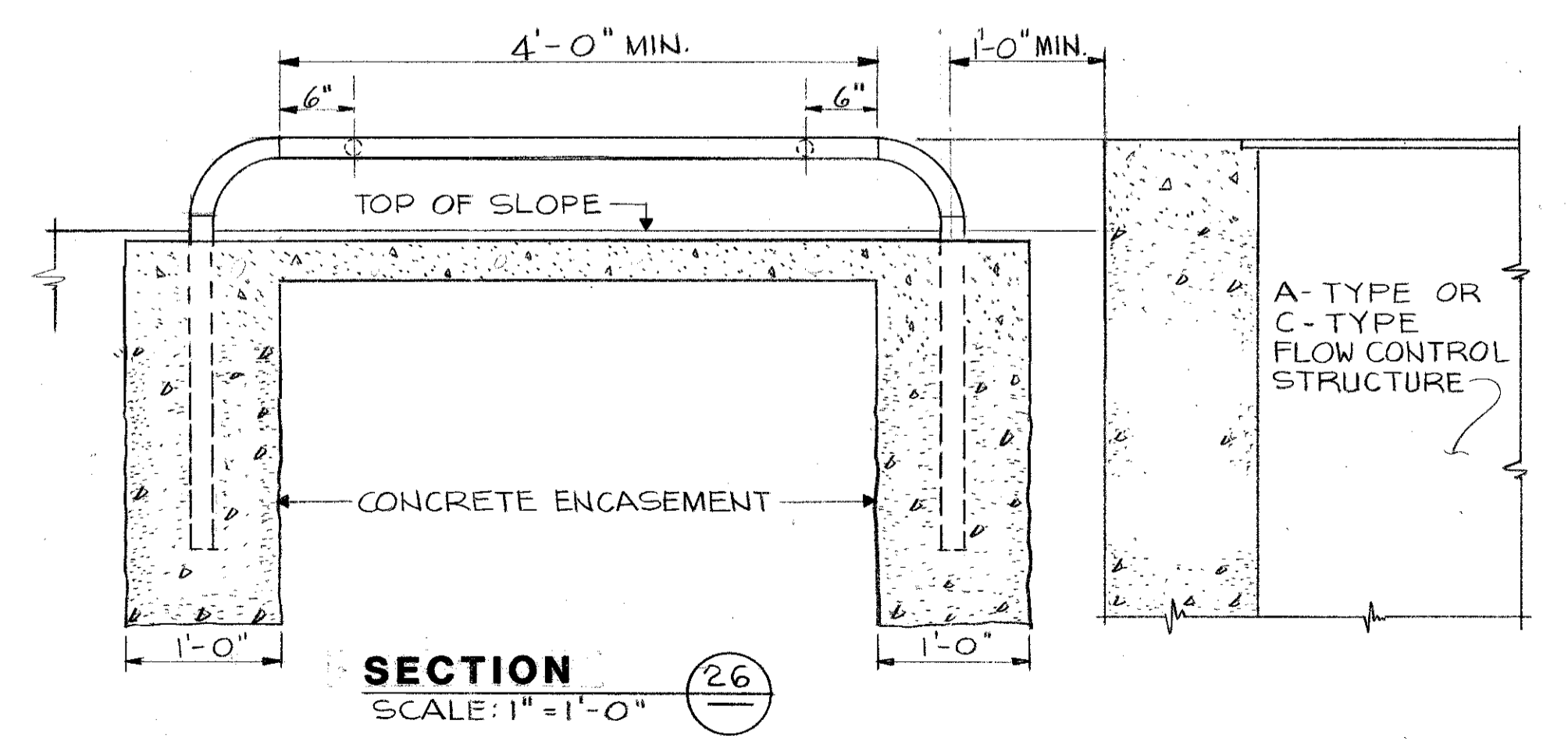


PLAN SCALE: 1/4" = 1'-0"



SECTION 25
SCALE: 1" = 1'-0"

STOP LOG STORAGE RACK DETAILS
(TYP FOR 11 RACKS)



SECTION 26
SCALE: 1" = 1'-0"



NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION
2/14/84	S.D.C.	C.F.S.		RECORD DRAWING
REVISIONS				

DRAWN BY A. J. SILVA
DEPT. CHECK <i>[Signature]</i>
PROJ. CHECK C. Schrader

M&E METCALF & EDDY, INC. / ENGINEERS
BOSTON / NEW YORK / PALO ALTO / CHICAGO

Carl F. Schmidt
REG. PROF. ENGR.

2-18-82
DATE

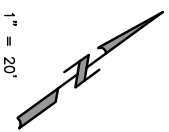
SCALE:
AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

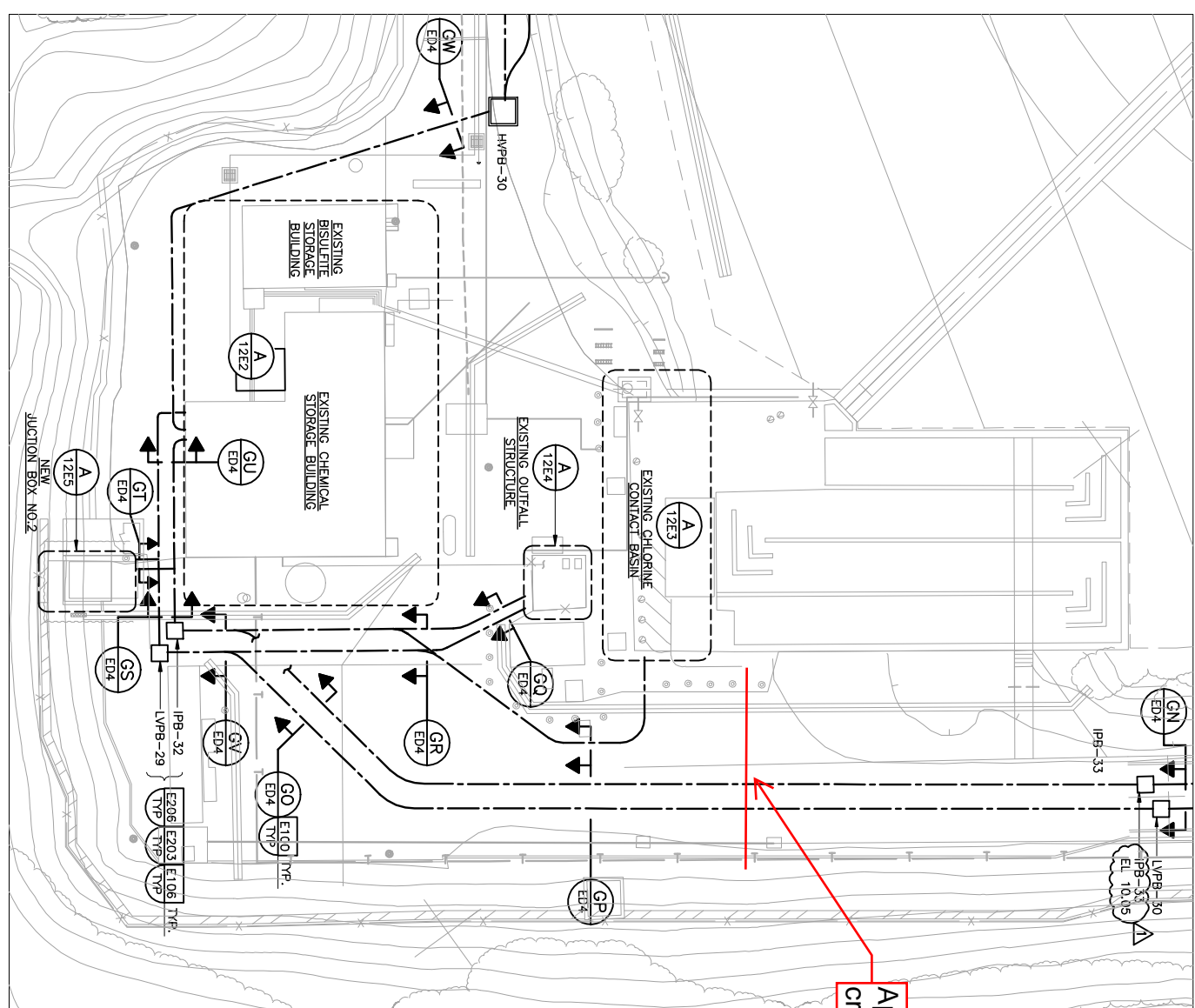
CITY OF PETALUMA
WASTEWATER TREATMENT PLANT UPGRADE

MECHANICAL
STABILIZATION PONDS
EFFLUENT DISCHARGE FACILITIES
SECTIONS AND DETAILS

JOB 7.152.3
FILE NO.
SHEET M-11
C-06-2471-100



FOR CONTINUATION SEE DWG. EP15



A PARTIAL SITE PLAN
SCALE: 1" = 20'
FILE: 12E001

REV	DATE	BY	DESCRIPTION
2/20/09	LV	AS BUILT	
1/18/07	LV	RFT 599	

DESIGNED	DRAWN	CHECKED	DISCIPLINE	ENGINEER
IM	RC	MAG		

PROJECT ENGINEER	PARTNER



CITY OF PETALUMA
ELLIS CREEK WATER RECYCLING FACILITY
ELECTRICAL
ELECTRICAL PARTIAL SITE PLAN

VERIFY SCALES	JOB NO.
BAR IS ONE INCH ON ORIGINAL DRAWING	60698.10
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	12E1
	SHEET NO.
	619 OF 740

RECORD DRAWING

FILENAME: S:\Drawings\Ellis Creek\Drawings\A_Built\12E001 7-30-09 10:04am Version: XREFS: AB-PB0R-00E200; 07S100; 00S118; 01S100; 08S103; 00S140; 16S100; 15S205; 15S201; 15S203; 15S207; 15S200; 00E201; 01S200; Browns Lane pet-wetlands.spd elevs; c-ltd; c-wetlands; pet-field; petfield.dwg; 21S100; 09S100; 03S100; 04S103; 04S101; 08S104; 00S230; 06S102; 00C102P; 00C108K; 00S271; 16S110; 15S120; 16S111; 15S800; 17S102; 11S102;

REV	DATE	BY	DESCRIPTION

DESIGNED _____
 DRAWN _____
 SYK _____
 CHECKED _____
 CFF _____
 DATE _____

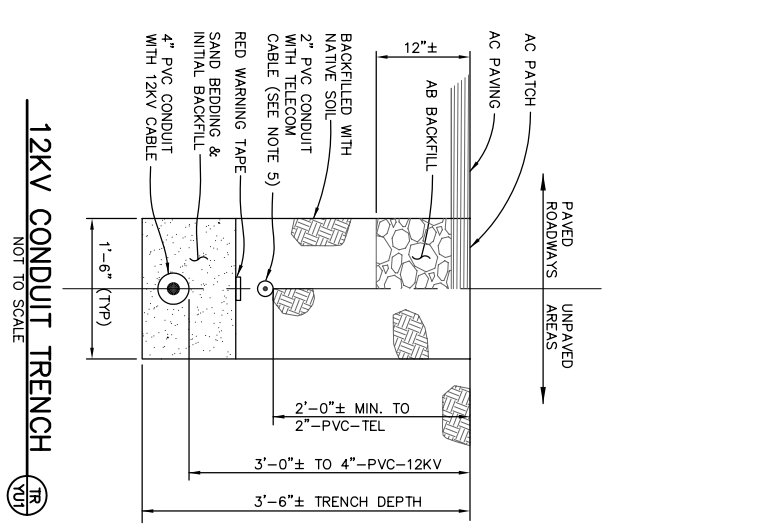
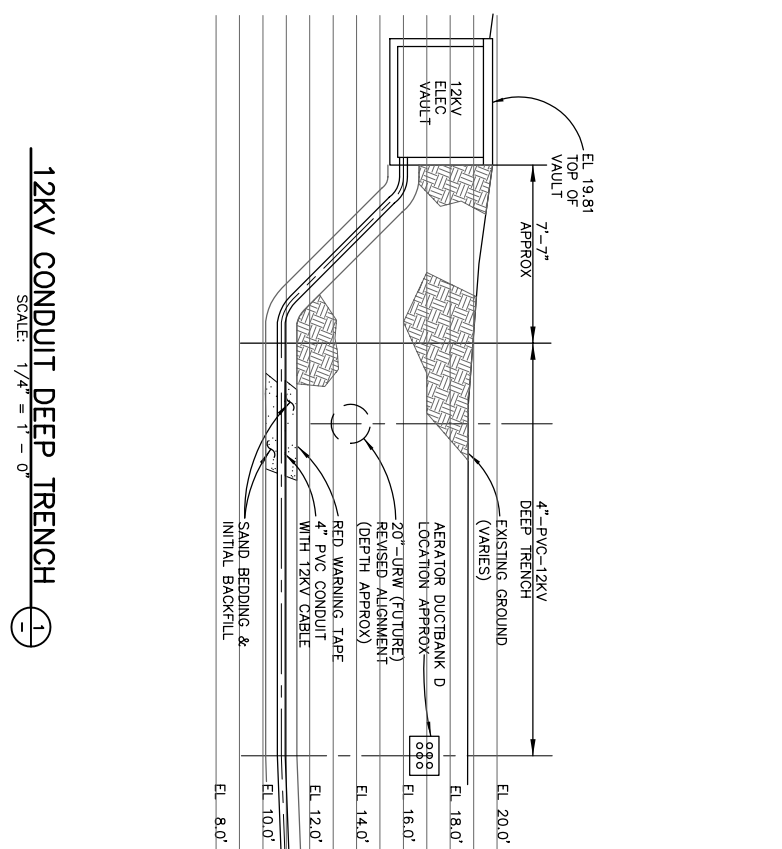
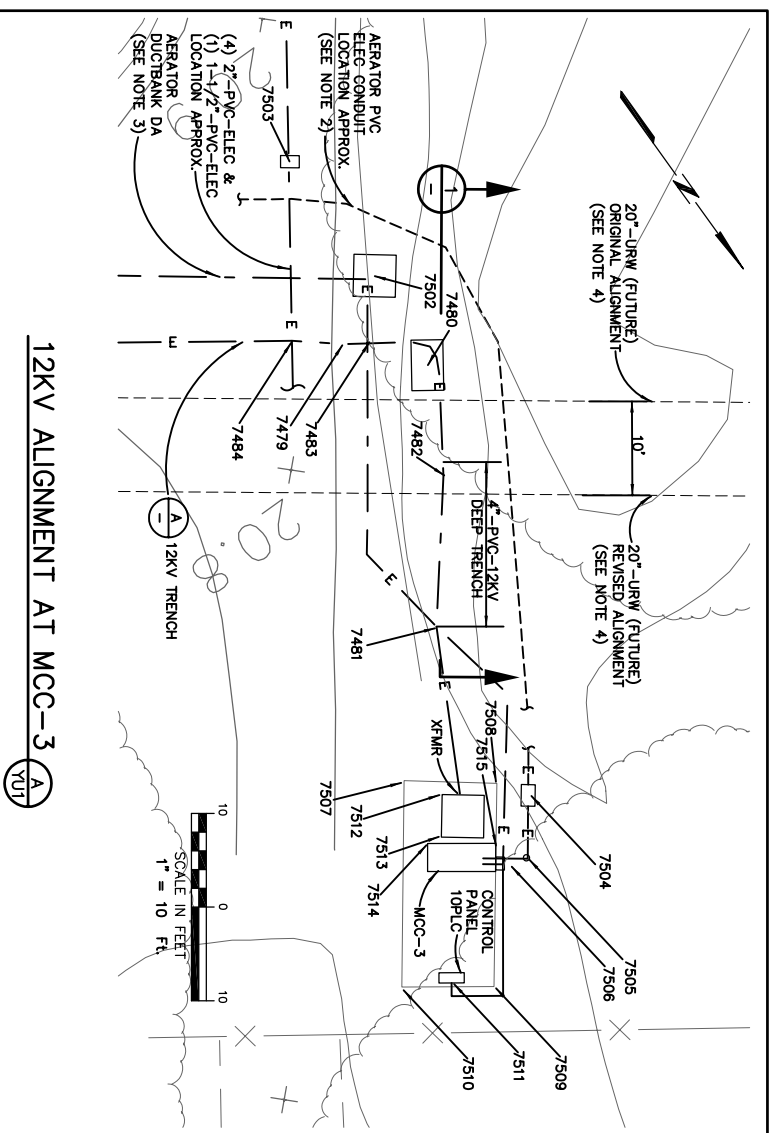
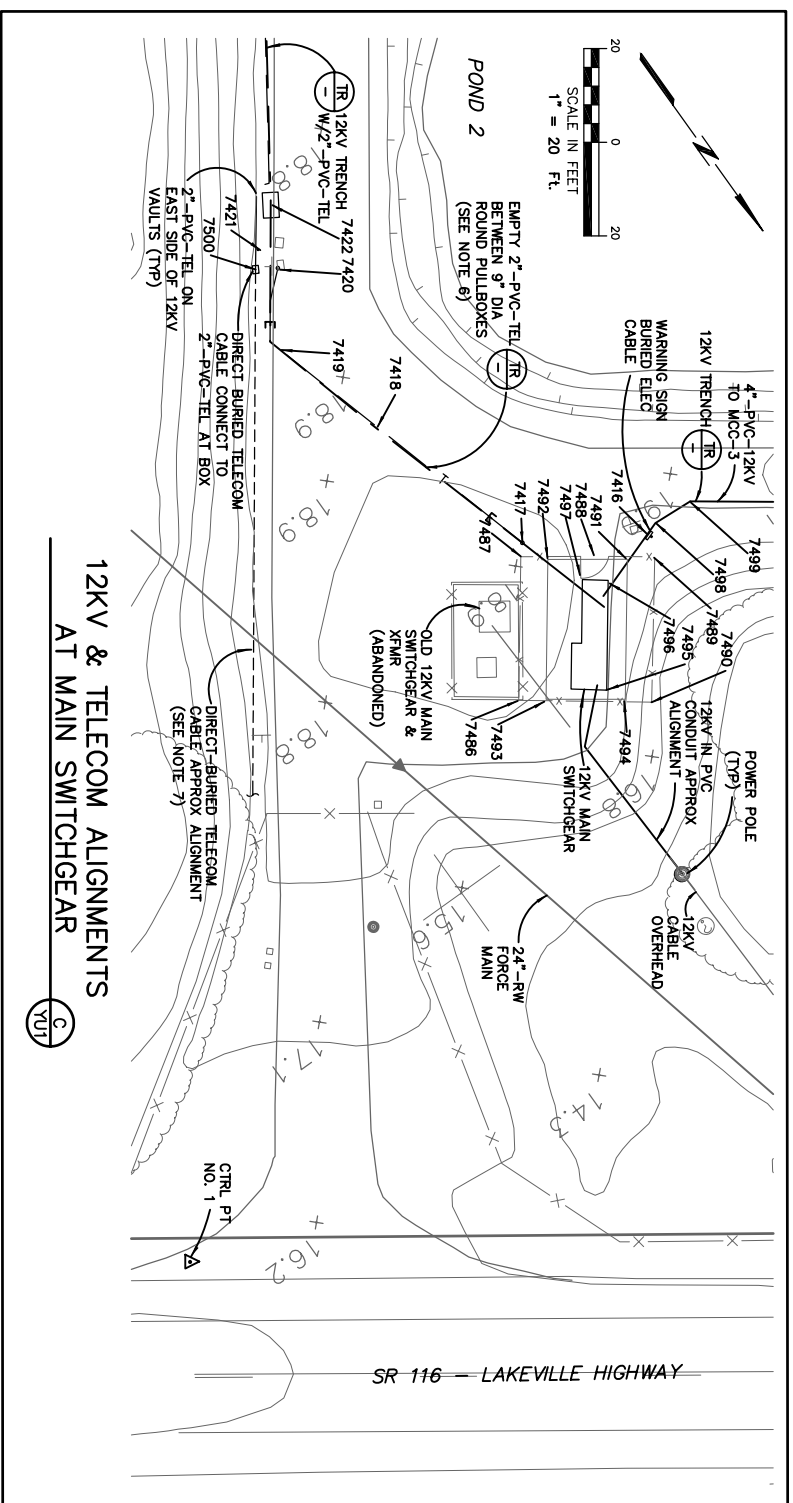
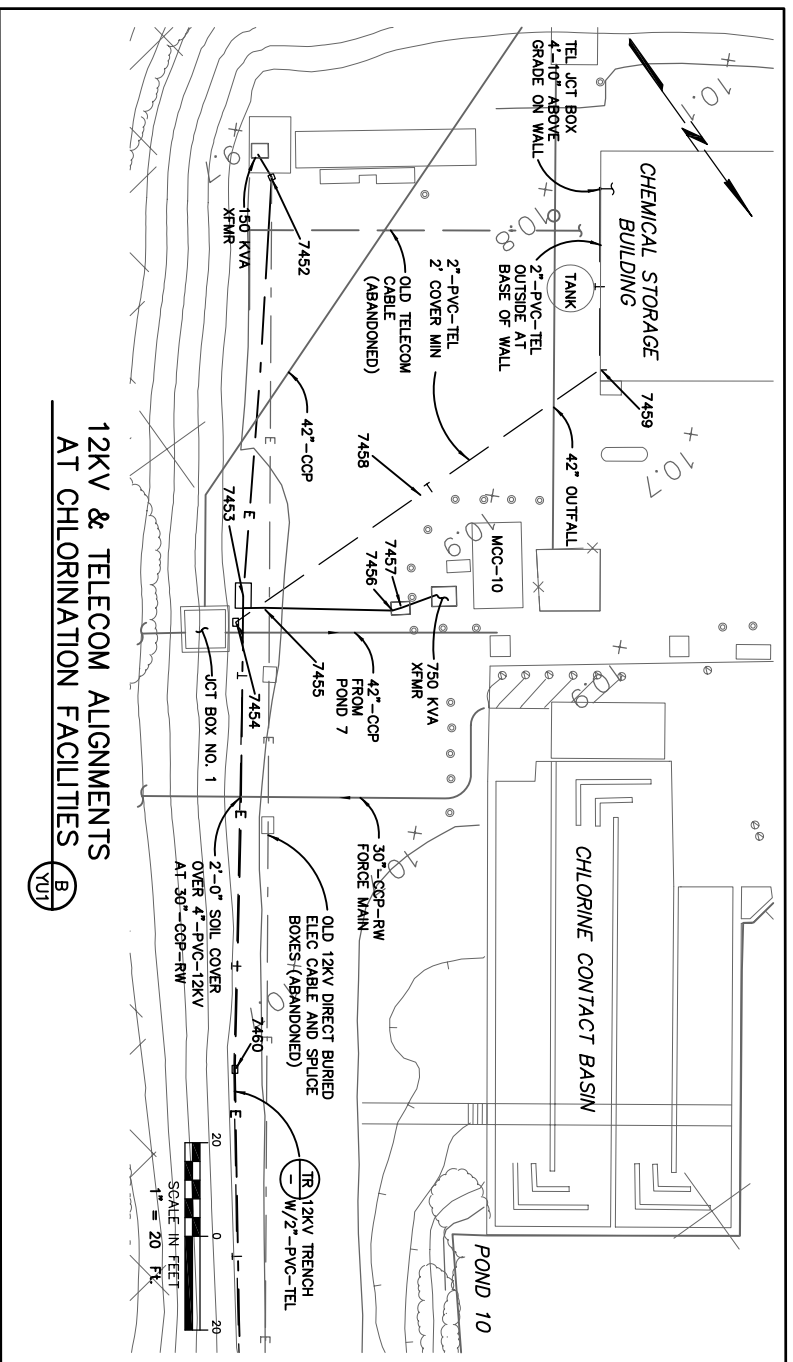
Brelje & Race
 CONSULTING CIVIL ENGINEERS
 5570 Skyline Blvd., Santa Rosa, CA 95403 • 707-576-1322 • www.brce.com

CITY OF PETALUMA	JOB NO.
OXIDATION PONDS 12KV ELECTRICAL ALIGNMENTS	2727.14
12KV ELECTRICAL AND TELECOMMUNICATION CONDUITS EXISTING ALIGNMENTS - DETAILS	DRAWING NO.
	YU2
	SHEET NO.
	2 OF 2

VERTICAL SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

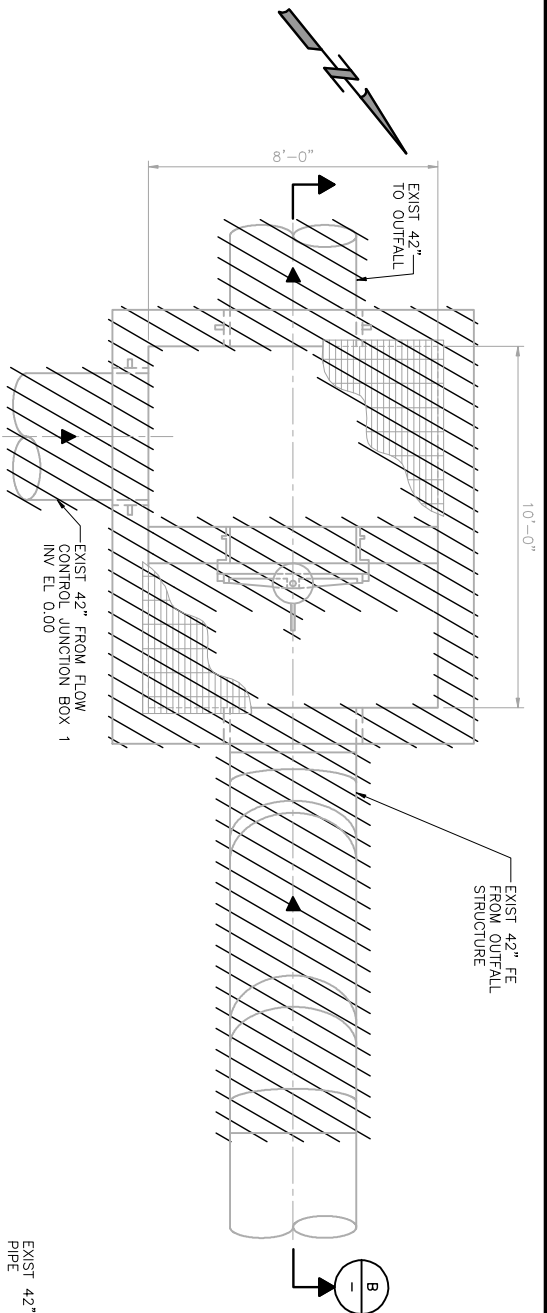
IF NOT ONE INCH ON SCALE ACCORDINGLY



- NOTES:**
- FOR POINT NUMBER COORDINATE LOCATIONS, ELEVATIONS, AND DESCRIPTIONS SEE 12KV CONDUIT ALIGNMENT COORDINATE TABLE ON DRAWING YU1.
 - APPROXIMATE ALIGNMENT OF AERATOR ELECTRICAL CONDUITS SHOWN.
 - FOR INFORMATION ON POND AERATOR ELECTRICAL DUCTBANKS AND PANS, SEE "MASTER PLAN OXIDATION PONDS INTERIM AERATOR IMPROVEMENTS" RECORD DRAWINGS, DEC. 19, 2005.
 - FOR INFORMATION ON FUTURE 20-INCH URBAN RECYCLED WATER, SEE "ELUS GREK WATER RECLAMATION FACILITY PROJECT", CONSTRUCTION DRAWINGS, JULY 2005.
 - TELECOM CONDUITS IN 12KV TRENCH ONLY WHERE INDICATED.
 - EMPTY 2-INCH PVC TELECOM CONDUIT BETWEEN TWO 9-INCH ROUND PULLBOXES FOR FUTURE TELECOM CABLE TO MAIN SWITCHGEAR.
 - APPROXIMATE ALIGNMENT OF DIRECT-BURIED 6-PAIR TELECOM CABLE FROM POLE ON LAKEVILLE HIGHWAY.

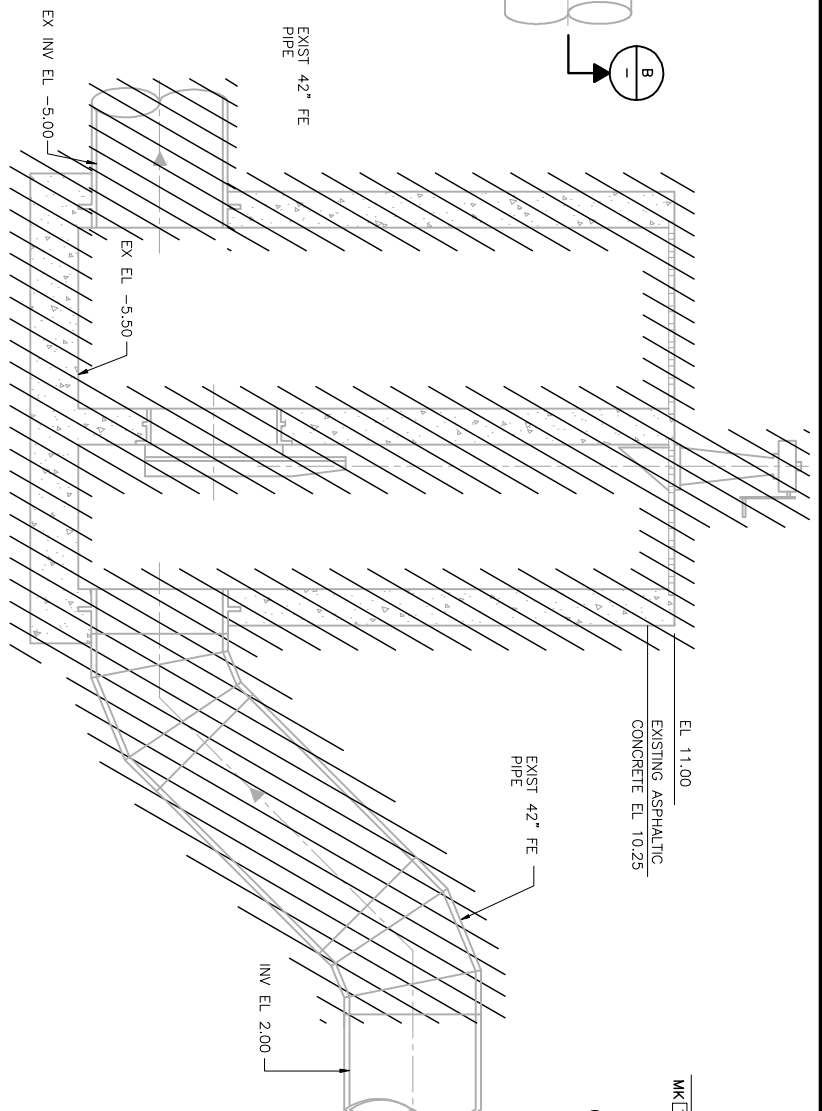
ATTACHMENT F



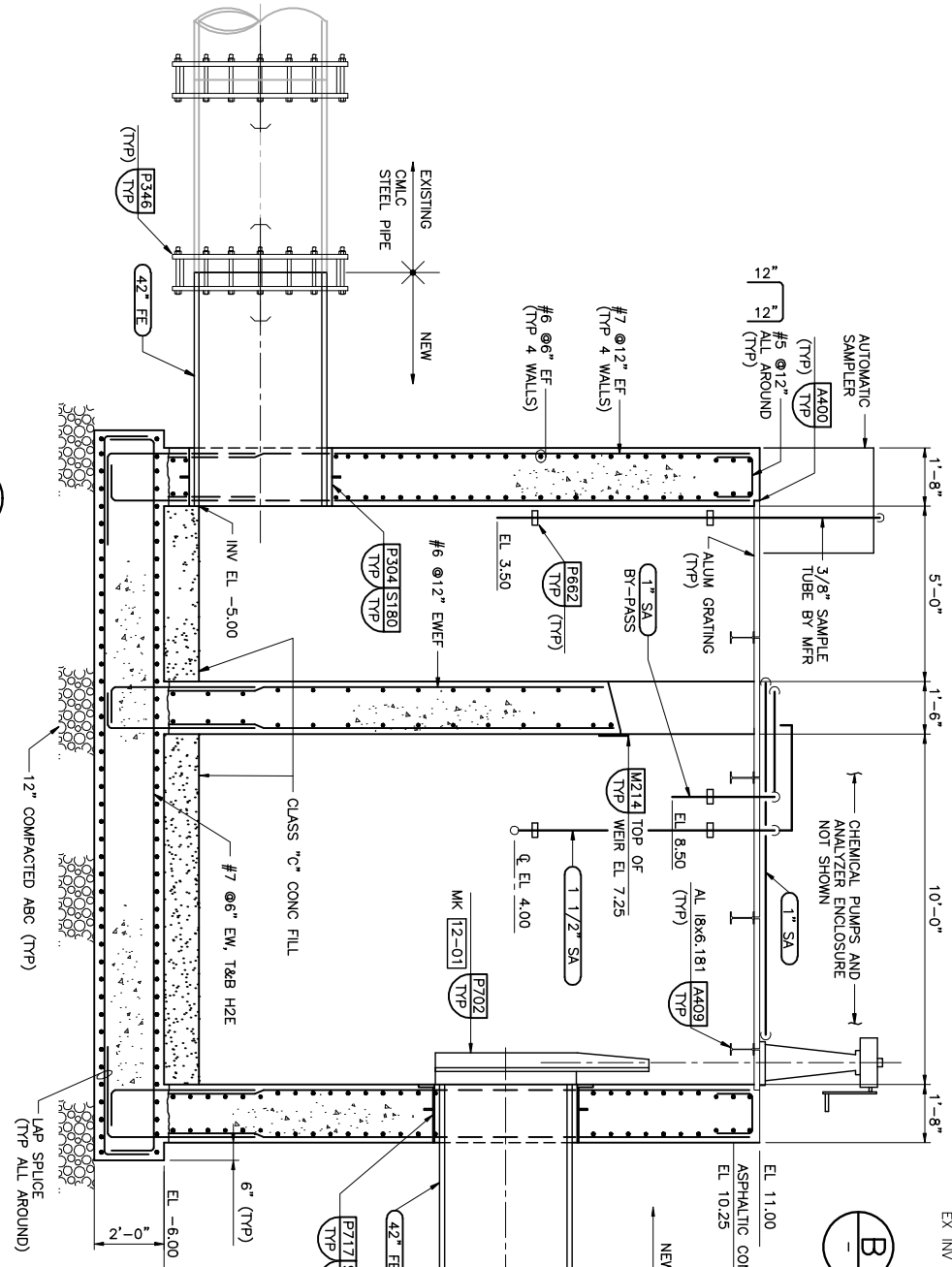


A PLAN - EXISTING JUNCTION BOX NO. 2
 SCALE: 3/8" = 1'-0"
 FILE: 00Y5177

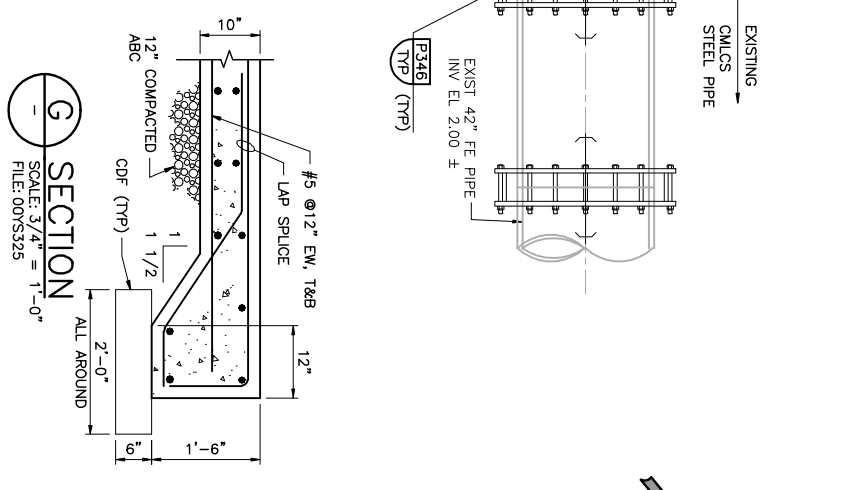
- NOTES:
- SEE DWG 12M3 FOR ANALYZER SYSTEM SCHEMATIC. CONTRACTOR SHALL COORDINATE WITH MFR TO MOUNT ROTAMETER, PH PROBE, ANALYZER, AND PIPING IN FRP ENCLOSURE.
 - CONCRETE ENCASE PIPING UNDER SLAB PER **P040**.



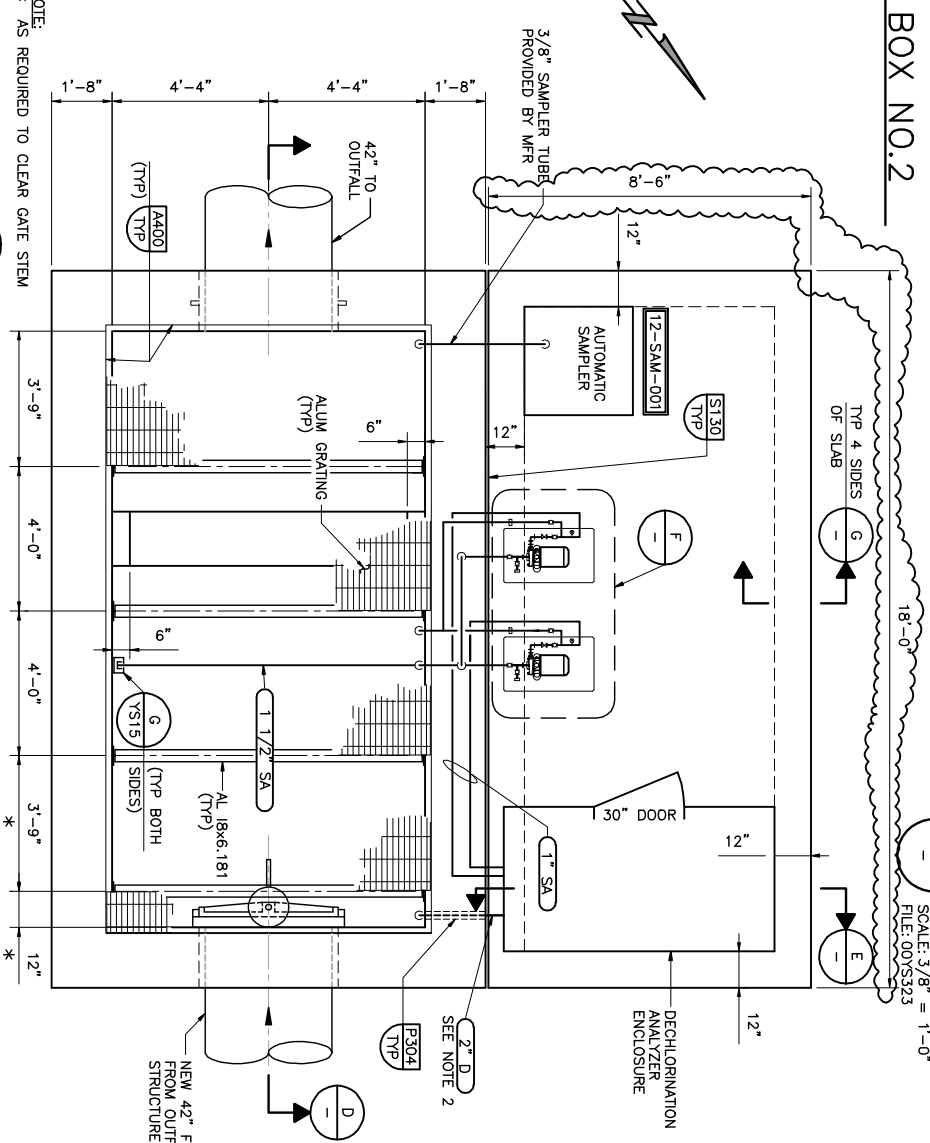
B SECTION - EXISTING JUNCTION BOX NO. 2
 SCALE: 3/8" = 1'-0"
 FILE: 00Y5178



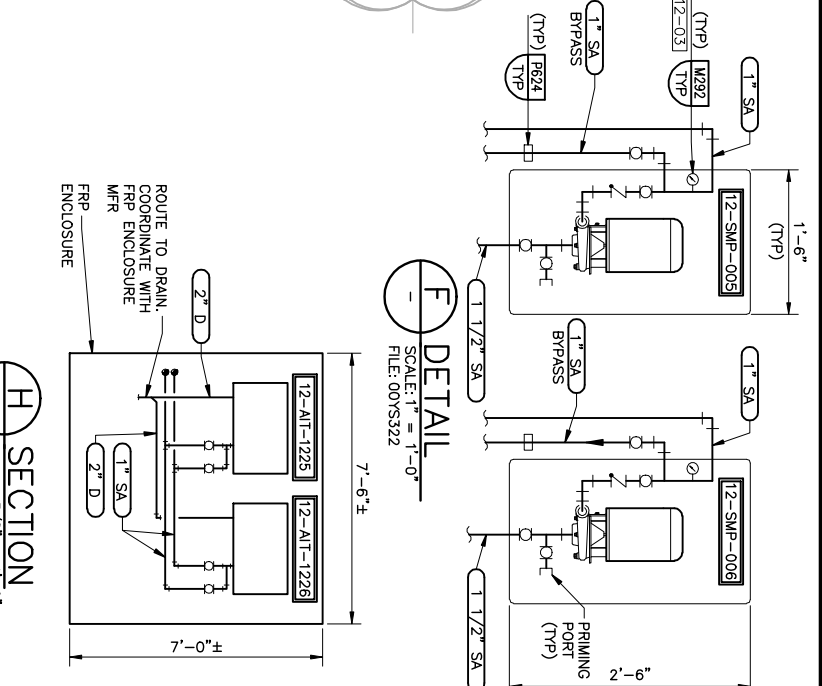
D SECTION - NEW JUNCTION BOX NO. 2
 SCALE: 3/8" = 1'-0"
 FILE: 00Y5215



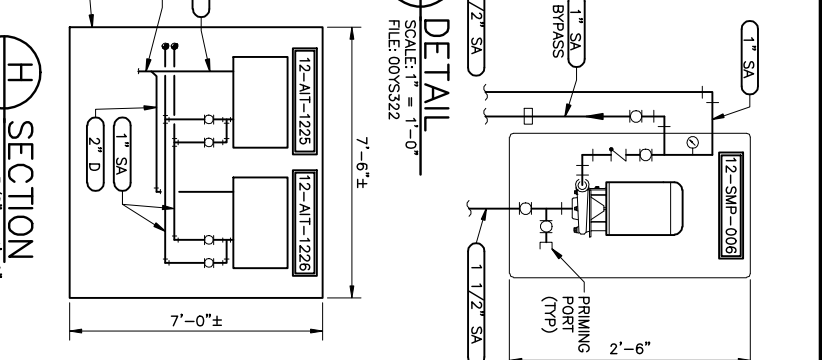
G SECTION
 SCALE: 3/4" = 1'-0"
 FILE: 00Y5325



C PLAN - NEW JUNCTION BOX NO. 2
 SCALE: 3/8" = 1'-0"
 FILE: 00Y5214



F DETAIL
 SCALE: 1" = 1'-0"
 FILE: 00Y5322



H SECTION
 SCALE: 3/8" = 1'-0"
 FILE: 00Y5323

NOTE:
 * AS REQUIRED TO CLEAR GATE STEM

RECORD DRAWING

<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> <tr> <td>2/20/09</td> <td>5/24/07</td> <td>LV</td> <td>AS BUILT</td> </tr> <tr> <td></td> <td></td> <td>RFI</td> <td>703</td> </tr> </table>	REV	DATE	BY	DESCRIPTION	2/20/09	5/24/07	LV	AS BUILT			RFI	703	DESIGNED DGB/BJD DRAWN WRA CHECKED VWW DATE	DISCIPLINE ENGINEER	PROJECT ENGINEER	PARTNER			CITY OF PETALUMA ELLIS CREEK WATER RECYCLING FACILITY STRUCTURAL/MECHANICAL JUNCTION BOX NO.2 DEMOLITIONS/MODIFICATIONS PLANS, SECTIONS AND DETAIL	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF THIS SHEET ADJUST SCALES ACCORDINGLY	JOB NO. 60698.10 DRAWING NO. YS14 SHEET NO. 155 OF 740
REV	DATE	BY	DESCRIPTION																		
2/20/09	5/24/07	LV	AS BUILT																		
		RFI	703																		

FILENAME: S:\Drawings\Ellis Creek\Drawings\As Built\00Y5016_7-13-09_0125pm.mxd XREFS: 48-PBDR; 00Y5177; 00Y5214; 00Y5215; 00Y5178; 00Y5322; 00Y5323; 00Y5325; 00Y5216.Prd