

GENERAL NOTES

- STATIONING AND DISTANCES SHOWN ON THE DRAWINGS ARE BASED ON HORIZONTAL MEASUREMENTS PROJECTED FROM THE PIPE CENTERLINE UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL HAVE COPIES OF THE PLANS AND SPECIFICATIONS FOR THIS PROJECT ON-SITE DURING CONSTRUCTION AND SHALL BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
- STRUCTURAL CONCRETE SHALL BE CLASS "A" 4000 PSI, UNLESS INDICATED OTHERWISE. SEE SPECIFICATION SECTION 030500.
- VERIFY DIMENSIONS AND CONDITIONS AT THE SITE BEFORE STARTING WORK. ANY CONFLICTS BETWEEN DETAILS OR DIMENSIONS ON THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE OWNER'S REPRESENTATIVE WHO WILL DETERMINE THE INTENT OF THE DRAWINGS.
- UTILITIES, BOTH EXISTING AND THOSE NOTED AS FUTURE WHICH MAY OR MAY NOT EXIST AT THE TIME OF CONSTRUCTION, ARE SHOWN ON THESE PLANS FOR THE CONVENIENCE OF THE CONTRACTOR. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL "C" AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"; CI/ASCE 38-02. NOT ALL LATERALS ARE SHOWN.
- TAKE PRECAUTIONARY MEASURES TO PROTECT UTILITIES AND STRUCTURES SHOWN AS WELL AS ANY AND ALL OTHERS NOT ON RECORD DRAWINGS OR NOT SHOWN ON THESE PLANS. PERFORM INDEPENDENT INVESTIGATIONS (POTHOLE), TO DETERMINE LOCATIONS AND SIZES OF EXISTING UTILITIES. NOTIFY OWNERS REPRESENTATIVE BY TELEPHONE AND IN WRITING OF ANY DISCREPANCIES. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO ORIGINAL CONDITION AND/OR THE APPLICABLE REQUIREMENTS OF THE AFFECTED UTILITY AT THE CONTRACTOR'S EXPENSE. APPROVAL BY THE UTILITY OWNER SHALL ALSO BE REQUIRED.
- COORDINATE UNDERGROUND UTILITY MARKING WITH THE LOCAL UNDERGROUND SERVICE ALERT JURISDICTION (CALL 811) PRIOR TO CONSTRUCTION.
- USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS, OR OTHER UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT. PROTECT FROM DAMAGE INCURRED DURING CONSTRUCTION ALL OVERHEAD UTILITY LINES WHETHER SHOWN OR NOT SHOWN ON THESE PLANS. NOTIFY UTILITY COMPANIES PRIOR TO ANY WORK IN OVERHEAD LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR COST INCURRED.
- PRESERVE ALL SURVEY MARKERS AND MONUMENTS. THOSE REQUIRING REMOVAL SHALL BE RE-ESTABLISHED IN ACCORDANCE WITH THE LOCAL GOVERNING AUTHORITY REQUIREMENTS.
- LIMIT CONSTRUCTION ACTIVITIES TO THE RIGHT-OF-WAY, EASEMENTS, AND DESIGNATED AREAS SHOWN ON THE DRAWINGS.
- COMPACTION OF BACKFILL MATERIALS SHALL BE BY MECHANICAL EQUIPMENT IN ACCORDANCE WITH SPECIFICATION SECTION 312316. NO FLOODING OR JETTING WILL BE ALLOWED.
- AT THE CLOSE OF EACH WORKING SHIFT, WHERE A NEXT SHIFT WILL NOT IMMEDIATELY FOLLOW, CONSTRUCT PIPE END CAPS AND TRENCH RAMPS AT THE END OF THE EXCAVATION OR COMPLETELY COVER WITH TRENCH PLATES. PREVENT UNAUTHORIZED ENTRY INTO THE OPEN PIPE AND TRENCH.
- INSTALL TEMPORARY 6-FOOT HIGH CHAIN LINK FENCING AROUND DESIGNATED WORK AREAS INCLUDING AROUND ALL STORAGE AREAS.
- ALL SPECIFICATIONS, DRAWINGS, AND DETAILS INCLUDED IN THE CONTRACT DOCUMENTS SHALL FULLY APPLY TO THE WORK WHETHER SPECIFICALLY REFERENCED OR NOT.
- GROUND WATER PUMPED FROM EXCAVATION MAY BE DISCHARGED IN ACCORDANCE WITH APPLICABLE PERMITS AND REGULATIONS. GROUND WATER SHALL NOT BE DISCHARGED TO THE STREET OR SURROUNDING AREA WITHOUT A PERMIT. NO DISCHARGE TO SANITARY SEWERS WILL BE ALLOWED UNLESS PRIOR WRITTEN PERMISSION IS GRANTED BY THE DISTRICT ENGINEER.
- VIDEO RECORD AND DOCUMENT THE PRE-EXISTING CONDITIONS OF LIFT STATION SITES, PIPELINE ALIGNMENT, AND PROPERTIES ADJACENT TO THE PROJECT, AND SUBMIT THE RECORDING TO THE CITY PRIOR TO THE START OF CONSTRUCTION. PROTECT ADJACENT PROPERTIES DURING WORK. RESTORE AND/OR REPAIR DAMAGE TO LANDSCAPING, PAVING, IRRIGATION, STRUCTURES, ETC., CAUSED BY THE WORK.
- MAINTAIN THE WORK AREA IN A NEAT, CLEAN, AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE CITY, OWNER'S REPRESENTATIVE AND AGENCY WITH LOCAL JURISDICTION. STREETS SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCES BEING CONTROLLED AT ALL TIMES.
- MAINTAIN A COMPLETE AND ACCURATE RECORD OF ALL CHANGES IN CONSTRUCTION FROM THAT SHOWN IN THESE PLANS AND SPECIFICATIONS FOR THE PURPOSE OF PROVIDING A BASIS FOR RECORD DRAWINGS. THE CONTRACTOR SHALL NOTE DEVIATIONS FROM THE PLANS ON A SET OF PLANS SPECIFICALLY SET ASIDE FOR THIS PURPOSE. ANY CHANGES SHALL BE MADE ON THE ORIGINALS OF THE PLANS. NO CHANGES FROM THAT SHOWN ON THESE PLANS AND SPECIFICATIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
- RESTORE ALL PAVEMENT, CONCRETE, ASPHALT, GRAVEL AND DRIVEWAY SURFACES REMOVED OR DAMAGED DURING CONSTRUCTION UNLESS INDICATED OTHERWISE ON THE PLANS. PAVEMENT RESTORATION ABOVE PIPELINE TRENCHES SHALL BE PER SHEET C-501. OTHER SURFACES SHALL BE RESTORED IN-KIND UNLESS INDICATED OTHERWISE.

- CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS REFERENCED IN THE CITY'S GENERAL CONDITIONS.
- WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE PERMITS PER SPECIFICATION SECTION 011100. COMPLY WITH REQUIREMENTS OF THE ENCROACHMENT PERMIT ISSUED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION.
- IF FENCES ARE REMOVED FOR CONSTRUCTION, REPLACE WITH EQUAL OR BETTER FENCING MATERIALS.
- CONTRACTOR WORK AREA IS COMPRISED OF STATE-OF-CALIFORNIA RIGHT-OF-WAY, CITY RIGHT-OF-WAY, AND UTILITY EASEMENTS.
- SHEETING AND SHORING OF TRENCHES IS REQUIRED FOR WORKER PROTECTION IN CONFORMANCE WITH THE GENERAL CONDITIONS. SHEET AND SHORE TRENCHES TO PROTECT AGAINST:
 - DAMAGE TO UTILITIES, FACILITIES, AND PROPERTY
 - ADDITIONAL EXCAVATION AND BACKFILL
 - ADDITIONAL PAVEMENT
 - OTHER COSTS AND LIABILITIES ARISING FROM SOIL INSTABILITY
- CITY STREETS ARE TO REMAIN OPEN TO THROUGH TRAFFIC AT ALL TIMES. NO TEMPORARY OR LONG TERM PARKING OR STORAGE OF CONSTRUCTION EQUIPMENT OR MATERIALS SHALL OCCUR WITHOUT PRIOR ISSUANCE OF AN ENCROACHMENT PERMIT.
- DURING CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR SAFE TRAFFIC CONTROL IN AND AROUND THE SITE. THIS MAY INCLUDE BUT SHALL NOT BE LIMITED TO SIGNS, FLASHING LIGHTS, BARRICADES AND FLAG PERSONS AS DIRECTED BY THE CITY ENGINEER. TRAFFIC CONTROL MEASURES SHALL COMPLY WITH CALTRANS STANDARDS.
- THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR SAFETY OF THE JOB SITE. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.

SEWER NOTES

- THE CITY OF GUADALUPE HAS ADOPTED THE CITY OF SANTA MARIA'S PUBLIC WORKS/ENGINEERING STANDARDS, WHICH ARE AVAILABLE ONLINE AT THE CITY OF SANTA MARIA'S WEBSITE.
- THE CITY ENGINEER SHALL BE NOTIFIED AT LEAST SEVEN (7) WORKING DAYS PRIOR TO START OF CONSTRUCTION. TELEPHONE (805) 356-3910. CONSTRUCTION WILL NOT TAKE PLACE OUTSIDE OF THE CITY'S STANDARD WORKING HOURS OR ON WEEKENDS UNLESS SPECIFICALLY APPROVED BY CITY. A PRECONSTRUCTION MEETING IS REQUIRED.
- INSTALL GRAVITY SEWER PER SPECIFICATION SECTION 333112. ALL PIPING SHALL BE MANDREL INSPECTED AND TESTED FOR LEAKAGE AND INFILTRATION. ALL PIPING SHALL BE TELEVISION INSPECTED. ALL PIPING SHALL BE CLEANED IN CONFORMANCE WITH THE TECHNICAL SPECIFICATIONS.
- THE MANHOLE FRAME AND COVER AND CONCRETE SUPPORT FOR MANHOLES SHALL BE RAISED AND CONSTRUCTED TO FINISHED PAVED GRADE AFTER PAVING IS COMPLETED. THE RING SECTION SHALL NOT BE MORE THAN 18" FROM THE CONE.
- THE SEWER SYSTEM, INCLUDING LATERALS, SHALL BE TESTED FOR LEAKAGE AND INFILTRATION PRIOR TO PLACING STREET PAVEMENT PER SPECIFICATION SECTION 330130.
- EXISTING SEWER LOCATIONS AND FLOWLINE ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR BEFORE START OF CONSTRUCTION. THE CITY SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- LABELLED RIM ELEVATIONS ARE APPROXIMATE. ADJUST MANHOLE FRAME AND COVER TO MATCH GRADE.
- NON-SEWER SERVICE LATERALS (WATER, GAS, ELECTRIC, COMMUNICATION, ETC.) ARE NOT ALL SHOWN ON THE PLANS. LOCATE AND PROTECT ALL SERVICE LATERALS AND UTILITIES PER SPECIFICATION SECTION 020120. REPLACE OR REPAIR LATERALS AND UTILITIES DAMAGED BY CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR FLOW BYPASSING AND OTHER FLOW HANDLING MEASURES NEEDED FOR CONSTRUCTION. BYPASSING PLAN MUST BE DEVELOPED AND SUBMITTED AS DESCRIBED IN SECTION 015800.
- CONTRACTOR WILL BE LIABLE FOR FINES AND OTHER COSTS ASSOCIATED WITH SEWAGE SPILLS AND OTHER PROBLEMS CAUSED BY INADEQUATE HANDLING OF SEWER FLOWS.

**CALTRANS PERMIT:
0523-NUT-0121**

LEGEND

SURVEY CONTROL POINT AND NUMBER UNDERGROUND GAS PAINT MARK SANITARY SEWER PAINT MARK WATER PAINT MARK UNDERGROUND TELEPHONE PAINT MARK UNDERGROUND ELECTRIC PAINT MARK UNDERGROUND FIBER OPTIC PAINT MARK TREE WITH DIAMETER NOTED WATER VALVE AIR RELEASE VALVE VALVE FIRE HYDRANT GUY POLE GUY WIRE TELEPHONE POLE	●JP ●PP ○PP EM □ TSB WM G I A L C E G S S T	JOINT UTILITY POLE POWER POLE POLE WITH LIGHT ELECTRIC METER GAS METER TRAFFIC SIGNAL BOX WATER METER GAS VALVE IRRIGATION CONTROL VALVE AREA LIGHT LIGHT STANDARD COMMUNICATION MANHOLE ELECTRICAL MANHOLE GAS MANHOLE STORM DRAIN MANHOLE SANITARY SEWER MANHOLE TELEPHONE MANHOLE	CTV ELEC GAS SLB TEL CTV B M CO S FO G M B	CABLE TELEVISION BOX ELECTRICAL BOX GAS BOX STREET LIGHT BOX TELEPHONE BOX CABLE TELEVISION PEDESTAL BOLLARD/SMALL POLE MONITORING WELL SANITARY SEWER CLEAN OUT STREET SIGN/SIGN POST FIBER OPTIC PLACARD GAS PLACARD MAIL BOX BRUSH LINE/DRIP LINE
RIGHT-OF-WAY CENTERLINE SANITARY SEWER WITH SIZE AND MATERIAL	WATER WITH SIZE AND MATERIAL SD FM6			

ABBREVIATIONS

AC ASPHALTIC CONCRETE	FD FLOOR DRAIN	PP POWER POLE
ARV AIR RELEASE VALVE	EXIST. EXISTING	PRV PRESSURE RELEASE VALVE
AVV AIR VACUUM VALVE	FLG FLANGE	R/W RIGHT-OF-WAY
CL CENTERLINE	FBEL&C FUSION BONDED EPOXY LINED & COATED	RW RAW WATER
CAV COMBINATION AIR VALVE	FL FLOW LINE	SD STORM DRAIN
CML&C CEMENT MORTAR LINED & COATED	FO FIBER OPTIC	SS SANITARY SEWER STATION
D DRAIN	MJ MECHANICAL JOINT	TC TOP OF CURB
DIA. DIAMETER	PC POINT ON CURVE	TS TOP OF SURFACE
DIP DUCTILE IRON PIPE	PE PLAIN END	V VENT
EC END OF CURVE	PH POTHOLED UTILITY CROSSING	W WATER
EL ELEVATION	PI POINT OF INFLECTION	WW WELL WATER
FG FINISH GRADE	PL PROPERTY LINE	

EROSION CONTROL NOTES

- EROSION CONTROL DEVICES SHALL BE INSTALLED TO PREVENT ANY SILT OR DUST FROM LEAVING THE SITE. MEASURES INSTALLED SHALL CONFORM TO THOSE SPECIFIED AS "BEST MANAGEMENT PRACTICES" IN THE REGIONAL WATER QUALITY CONTROL BOARD'S EROSION AND SEDIMENT CONTROL FIELD MANUAL. IN THE EVENT THAT THE INSTALLED DEVICES FAIL, ADDITIONAL OR IMPROVED DEVICES SHALL BE PLACED IMMEDIATELY. EROSION SHALL BE CONTROLLED AT THE SOURCE. THE PROJECT PERIMETER SHALL BE PROTECTED WITH DE-SILTING DEVICES.
- PROJECT DRIVEWAYS AND CONSTRUCTION ENTRANCES SHALL BE PROTECTED AGAINST EROSION AND TRACKING OF MUD AND DEBRIS AT ALL TIMES, INCLUDING EVENINGS, WEEKENDS AND HOLIDAYS. SUCH PROTECTION MAY BE MODIFIED TO PROVIDE ACCESS TO THE WORK SITE DURING WORK HOURS.
- ALL STOCKPILES SHALL BE PROTECTED AGAINST WIND AND WATER EROSION, IMMEDIATELY UPON PLACEMENT. SUCH PROTECTION SHALL REMAIN IN PLACE UNTIL USE OR REMOVAL OF THE STOCKPILE, REGARDLESS OF THE TIME OF YEAR.
- ALL FRESH CUT AND FILL SLOPES SHALL BE IMMEDIATELY PROTECTED BY INSTALLATION OF EROSION CONTROL DEVICES, AND UNTIL PERMANENT EROSION CONTROL IS ESTABLISHED.
- PERMANENT EROSION CONTROL MEASURES SHALL BE FULLY ESTABLISHED TO THE SATISFACTION OF THE CITY REPRESENTATIVE. (TO BE COMPLETED NO LESS THAN 30 DAYS PRIOR TO REQUEST FOR FINAL APPROVAL.)
- DURING THE CONSTRUCTION PERIOD, THE PROJECT FRONTAGE(S) SHALL BE SWEEPED AND KEPT FREE OF DIRT, DUST AND DEBRIS.
- WASTE MATERIALS SHALL NOT BE WASHED OFFSITE. THIS INCLUDES BUT IS NOT LIMITED TO SOIL, PAINT, GROUT, COLOR COAT, CONCRETE DUST, SAW RESIDUES, GRINDINGS, AND OIL.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT OF EROSION CONTROL DEVICES AS DIRECTED BY THE PROJECT WPCP OR THE CITY REPRESENTATIVE WHENEVER RAIN IS FORECAST.
- USE WATER TRUCKS OR SPRINKLER SYSTEMS IN SUFFICIENT QUANTITIES TO PREVENT AIRBORNE DUST FROM LEAVING THE CONSTRUCTION SITE. INCREASED WATERING FREQUENCY WILL BE REQUIRED WHENEVER WIND SPEEDS EXCEED 15 MPH.
- DESIGNATE A PERSON OR PERSONS TO MONITOR THE DUST CONTROL PROGRAM AND TO ORDER INCREASED WATERING, AS NECESSARY, TO PREVENT TRANSPORT OF PARTICULATE MATTER OFF SITE. THEIR DUTIES SHALL INCLUDE HOLIDAYS AND WEEKEND PERIODS WHEN WORK MAY NOT BE IN PROGRESS. THE NAME AND TELEPHONE NUMBER OF SUCH PERSONS SHALL BE PROVIDED TO THE APCD PRIOR TO CONSTRUCTION.
- ALL DISTURBED SOIL AREAS NOT SUBJECT TO REVEGETATION, INCLUDING SOIL STOCKPILES, SHALL BE STABILIZED USING APPROVED CHEMICAL SOIL BINDERS, JUTE NETTING OR OTHER METHODS APPROVED BY THE APCD WITH JURISDICTION.
- TRUCKS TRANSPORTING FILL MATERIAL TO AND FROM THE SITE SHALL BE TARPED OR MAINTAIN AT LEAST TWO FEET OF FREEBOARD.

AGENCY/UTILITY		
AGENCY	CONTACT	PHONE NUMBER
CONTRACT CITY ENGINEER	JEFF VAN DEN EIKHOF	(805) 470-1910
FRONTIER COMMUNICATIONS	SANDRA O'KEEFE	(559) 992-6724
PG&E	LOUIS GARCIA	(805) 546-5263
SOUTHERN CALIFORNIA GAS COMPANY	JASON LEWIS	(805) 781-7939
CHARTER	JEFF DAVIS	(805) 783-4950
CALTRANS	MARSHALL ETRATA	(805) 903-3499
UNDERGROUND SERVICE ALERT		811

JR	APPR	EXP. DATE
6/27/24		
PROJECT ENGINEER	DESCRIPTION	REG. NUMBER
JOSEPH J. REICHMUTH	CALTRANS ENCROACHMENT PERMIT	C63124



CITY OF GUADALUPE
PIONEER LIFT STATION AND FORCE MAIN PROJECT
NOTES, ABBREVIATIONS, AND LEGEND

DESIGNED: JR
 DETAILED: JPF
 CHECKED:
 APPROVED:
 DATE: SEPTEMBER 2024

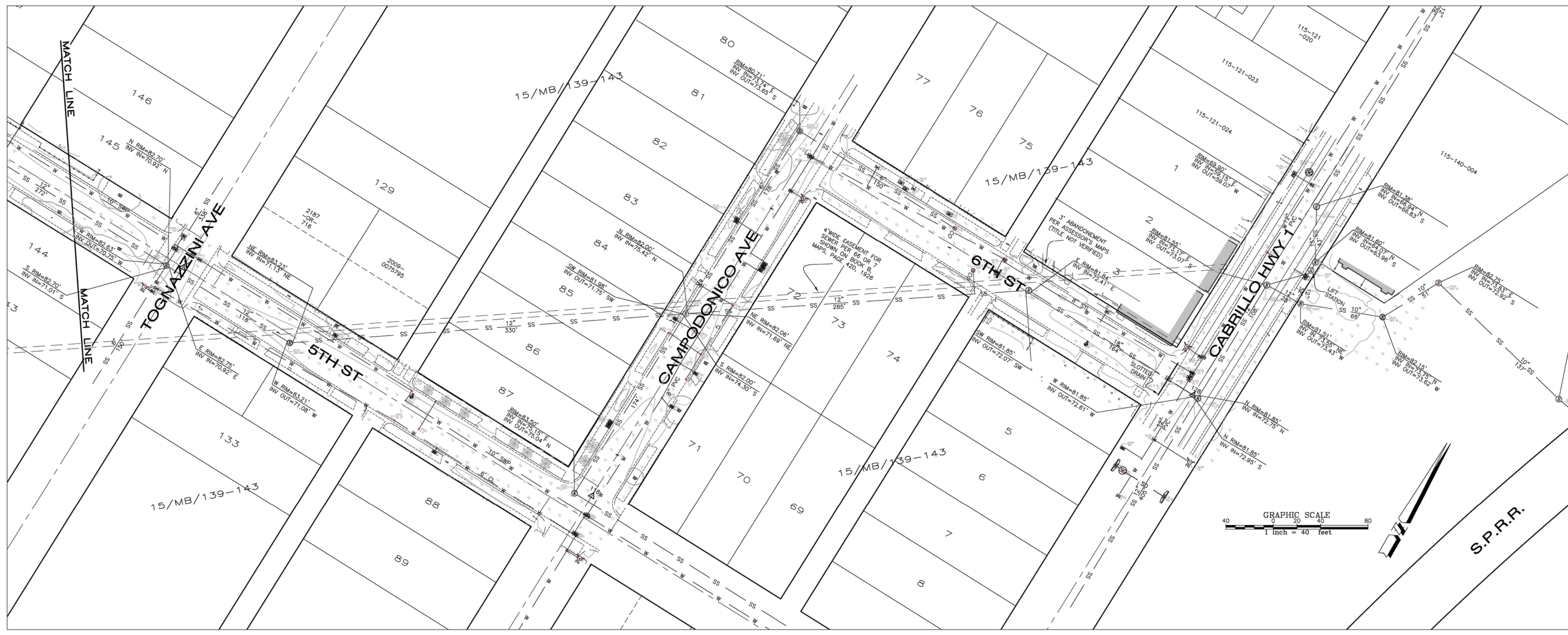
0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
 -
G-002
 SHEET
 2 OF 16

CALTRANS PERMIT: 0523-NUT-0121

APPR	DATE	DESCRIPTION
REV	DATE	DESCRIPTION
PROJECT ENGINEER		
REG NUMBER		
M33232		

mka
354 PACIFIC ST
SAN LUIS OBISPO, CA 93401
(805) 329-4773



SYMBOL LEGEND:

-x-	FENCE LINE	▬	RETAINING WALL
-w-	WATER MAIN	⊠	PO&E BOX
-g-	GAS MAIN	⊠	GAS METER
-e-	ELECTRICAL/CABLE	⊠	TELEPHONE BOX
-oh-	OVERHEAD ELECTRIC	⊠	SIGNAL BOX
○	DROP INLET AT CURB	⊠	CABLE T.V. BOX
○	DROP INLET	⊠	ELECTRIC BOX
○	STORM DRAIN MANHOLE	⊠	TELEPHONE MANHOLE
○	FIRE HYDRANT	○	STREET LIGHT
○	WATER WELL	○	JOINT POLE
○	WATER METER	○	POWER POLE
○	SEWER MANHOLE	○	GLY WIRE
○	SEWER CLEANOUT		

ABBREVIATIONS

AC	ASPHALT CONCRETE	IP	IRON PIPE
AP	ANGLE POINT	GB	GRADE BREAK
BM	BENCH MARK	GM	GAS METER
BLDG	BUILDING	HP	HIGH POINT
BW	BACK OF WALK	LT	LIGHT
CB	CATCH BASIN	MH	MANHOLE
CF	CURB FACE	PP	POWER POLE
CO	CLEAN OUT	PVC	POLYVINYL PIPE
COL	COLUMN	RC	REINFORCED CONCRETE
COR	CORNER	RCP	REINFORCED CONCRETE PIPE
CONC	CONCRETE	RIO	RADIUS
CMP	CORRUGATED METAL PIPE	SD	STORM DRAIN
CMU	CONCRETE MASONRY UNITS	SL	POINT ON SLOPE
CRN	CROWN OF STREET	SL	POINT ON SLOPE
DI	DROP INLET	STR	STAIRS
DI	EXISTING GRADE	STR	STAIRS
EP	EDGE OF PAVEMENT	TOP	TOP OF SLOPE
FD	FOUND	TOE	TOE OF SLOPE
FL	FLOW LINE	TW	TOP OF WALL
FF	FINISH FLOOR	W	WATER
FW	FACE OF WALL	WM	WATER METER
HSE	HOUSE COR	WW	WATER VALVE
GR	GRASS	WV	WATER VALVE
GM	GAS METER	WV	WATER VALVE
IP	IRON PIPE	DI	-1.5FL TOP OF GRATE -1.5' FLOW LINE

SURVEYOR'S STATEMENT:
THIS MAP REPRESENTS AN AERIAL TOPOGRAPHIC SURVEY PERFORMED BY CENTRAL COAST AERIAL MAPPING, PHOTOGRAPHY DATED 11/15/16 WITH GROUND CONTROL SET BY MBS LAND SURVEYS. CONTACT: ROBERT LAFFA, CCAM 805-543-4307

MICHAEL B. STANTON, PLS 5702 DATE

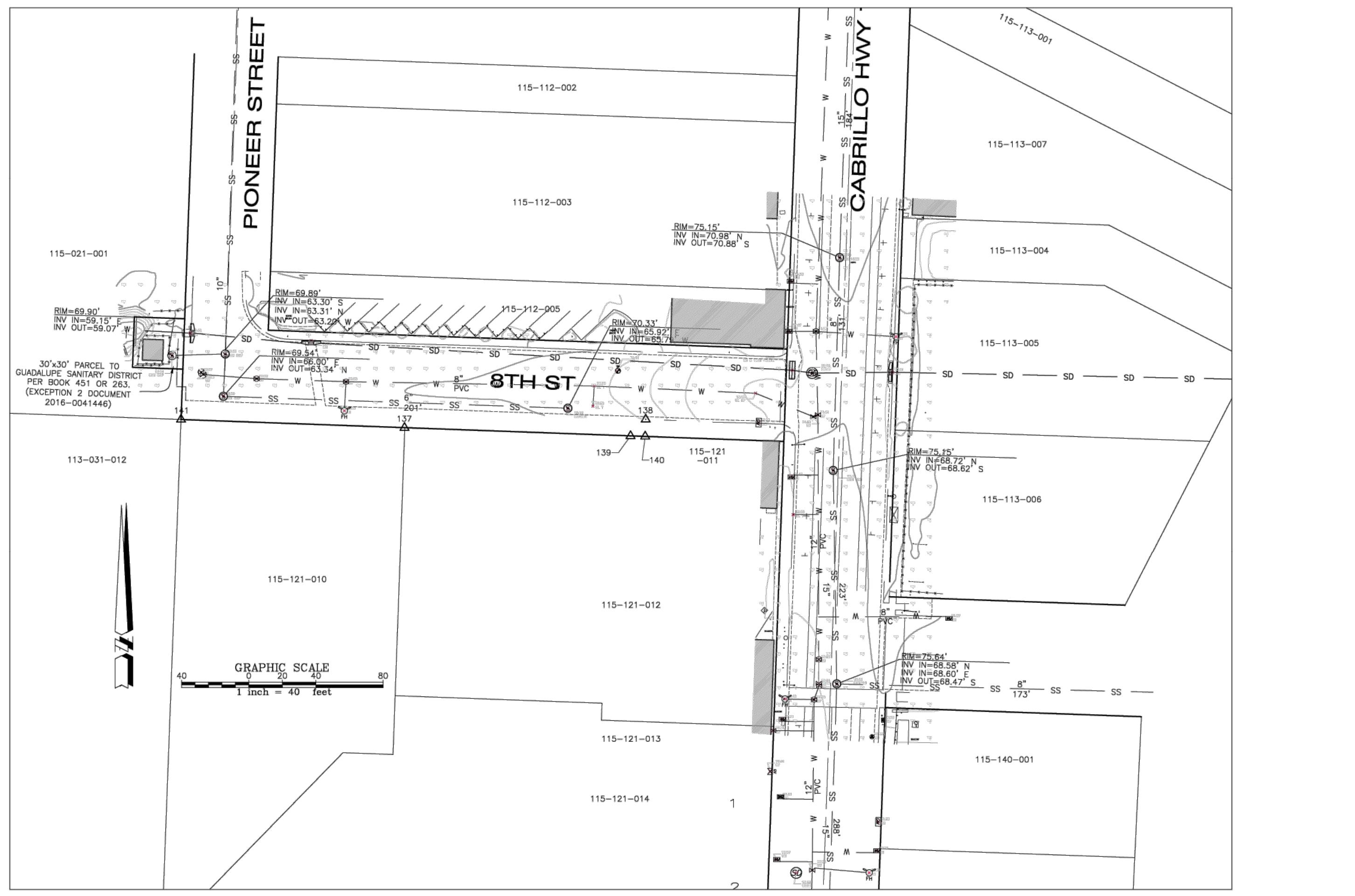
SURVEYOR'S NOTES:
1. NO TITLE SEARCH (TITLE REPORT) WAS PROVIDED TO THE SURVEYOR. EASEMENTS WHICH MAY AFFECT THE SUBJECT PROPERTY HAVE NOT BEEN PLOTTED.
2. ONLY THE SURFACE EVIDENCE OF UNDERGROUND UTILITIES HAS BEEN MEASURED IN THE FIELD ON THIS SURVEY. IF APPROXIMATE UNDERGROUND ALIGNMENTS ARE SHOWN, I MAKE NO WARRANTY AS TO THE ACTUAL LOCATION, TYPE OR DEPTH OF THOSE UNDERGROUND UTILITIES. CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-442-2444 TO VERIFY THE ACTUAL LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION. THE SURVEYOR ALSO HAS MADE NO INVESTIGATION AS TO SUBSURFACE ENVIRONMENTAL CONDITIONS THAT WOULD AFFECT THE USE OR DEVELOPMENT OF THIS PROPERTY.
3. THE SIGNED AND SEALED ORIGINAL DRAWING OF THIS MAP CONSTITUTES THE FINAL WORK PRODUCT. MBS LAND SURVEYS WILL NOT BE LIABLE FOR ELECTRONIC VERSIONS OF THIS MAP PROVIDED TO OTHER PARTIES.
4. THE BOUNDARY LINES SHOWN HEREON WERE COMPILED FROM RECORD INFORMATION (I.E. RECORDED MAPS OR DEEDS) AND ARE NOT INTENDED TO REPRESENT THE TRUE OR ACTUAL BOUNDARY LINES OF THE SUBJECT PROPERTY. TO DETERMINE THE ACTUAL BOUNDARIES OF A PARCEL WILL REQUIRE A COMPLETE BOUNDARY SURVEY. THE SETTING OF PROPERTY MONUMENTS AND THE FILING OF A CORNER RECORD OR RECORD OF SURVEY IN CONFORMANCE WITH STATE LAW (U.S. ACT SEC. 8762), APPROXIMATE DIMENSIONAL TIES FROM THE BOUNDARY LINES SHOWN TO PHYSICAL FEATURES (E.G. BUILDINGS, FENCES, WALLS OR TREES, ETC.) SHOWN ON THIS MAP CAN BE DERIVED BY SCALING THE FINISHED WORK PRODUCT WHICH IS PLOTTED AT THE SCALE INDICATED. HOWEVER, DIMENSIONAL TIES DERIVED DIRECTLY FROM THE DIGITAL PRODUCT (AUTOCAD DRAWING) ARE NOT ACCURATE AND CANNOT BE RELIED UPON FOR DETERMINING BUILDING INTERFACES OR THE PLACEMENT OF ANY PROPOSED NEW CONSTRUCTION. THE LOCATION OF NEW CONSTRUCTION CAN ONLY BE PROPERLY DESIGNED WHEN BASED ON AN ACTUAL BOUNDARY SURVEY OF THE PARCEL. OTHERWISE, MODIFICATIONS TO THE STRUCTURE MAY BE NECESSARY DURING CONSTRUCTION TO COMPLY WITH AGENCY SETBACK REQUIREMENTS.

NOTE:
AT THE TIME OF THE SURVEY, NOVEMBER 15, 2016, MANHOLE FLOW LINES FROM 5TH STREET AND HIGHWAY 1 DOWN TO AND INCLUDING THE MANHOLE TO THE WEST OF 3RD STREET AND MANHOLE DRIVE (SEGMENTS 4-10) WERE SUBMERGED IN 2.5 FEET OF WATER/SEWAGE. PRIOR TO NEW CONSTRUCTION MANHOLES SHOULD BE CLEANED AND FLOWLINE ELEVATIONS VERIFIED.

BENCH MARK:
THE BENCH MARK FOR THIS PROJECT IS A 3" BRASS DISK STAMPED "84 LA RESE" FOUND IN QUADALUPE AT THE INTERSECTION OF THE SOUTHERN PACIFIC RR AND STATE HWY 166, 17.5' WEST OF THE WEST RAIL, 21.3' NORTH OF THE EXTENSION OF CURB PROJECTED ACROSS HWY 1, 59.1' SOUTHWEST OF THE CENTER OF DROP INLET IN CURB AND GUTTER, 7.5' SOUTHWEST OF JOINT POLE #GT 135588 AND 16.3' SOUTHWEST OF RAILROAD SIGNAL CONTROL BOX.
ELEVATION = 89.8 FEET (NAVD 88)

DESIGNED: JRP
DETAILED: JPF
CHECKED: JPF
APPROVED: JPF
DATE: SEPTEMBER 2024

TOPOGRAPHIC MAP
OF A PORTION OF THE TOWN OF QUADALUPE, COUNTY OF SANTA BARBARA, CALIFORNIA
AT THE REQUEST OF MICHAEL K. NUNLEY & ASSOCIATES, INC.
MICHAEL B. STANTON, PLS 5702
3563 SUELOO ST., UNIT Q
SAN LUIS OBISPO, CA 93401
805-594-1960
January 11, 2018 JOB #KNO1\C SHEET 1 OF 2



CONTROL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	2180801.28	5789966.42	86.50	SETSPIKE
101	2184023.83	5795299.09	99.25	FDBCWMON1001
102	2175684.36	5795109.49	98.47	FDBCWMON1002
103	2180772.10	5790571.71	89.80	FDM9704-BALARST
104	2180732.20	5790495.09	88.74	FD1/2"PN&T
105	2180857.62	5787892.78	78.37	FDN&LS3146
106	2180848.88	5787873.20	77.54	FDBC
107	2182374.26	5789772.29	82.77	FDBC
108	2180004.32	5788866.92	77.93	SETSPIKE
109	2180042.89	5789506.93	80.04	SETSPIKE
110	2180526.07	5789522.31	81.29	SETMAG
111	2180423.38	5788967.45	82.13	SETMAG
112	2182261.02	5787237.80	72.61	FDBCWMON
113	2182260.97	5787237.77	73.30	SETX-ACITL
114	2181421.99	5788048.75	76.00	SET MAG ACTL
115	2182349.80	5788468.03	75.05	FDBCWMON
116	2182349.84	5788468.03	75.90	SETX-ACITL
117	2182947.99	5790191.19	85.39	SETMAG-ACITL
118	2183414.80	5790204.43	83.47	FDPK&N-ACITL
119	2183633.44	5791579.76	83.87	SETMAG-ACITL
120	2185000.58	5790645.38	78.89	SETMAG-ACITL
121	2184654.45	5790645.37	77.61	FDBCWMON
122	2185642.97	5790560.61	70.67	FDMA&N-ACITL
123	2183367.88	5789082.46	78.70	FDBCWMON
124	2183368.02	5789082.48	79.19	SETX-ACITL
125	2183420.04	5789339.11	80.31	FDBCWMON
126	2183422.31	5789514.57	81.86	FDBCWMON
127	2183418.34	5789559.33	82.37	FDBCWMON
128	2183741.23	5790602.15	80.87	FDBCWMON
129	2185828.98	5791128.65	83.72	FDBCWMON
130	2185651.39	5791449.82	83.29	FDBCWMON
131	2184624.04	5791718.31	80.53	FDSTRA&S
132	2184265.40	5791618.99	81.89	FDSTRA&S
133	2183061.73	5791576.20	85.94	FDBCWMON
134	2181730.57	5791528.80	89.35	FDMA&N-ACITL
135	2181411.85	5791517.47	86.80	FDPK&WASH
136	2180873.23	5791498.27	91.56	FDPK&WASH
137	2184651.90	5790375.36	68.71	FD1 1/2"PI
138	2184656.88	5790519.02	71.71	10.13SN&T4597

CONTROL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
139	2184647.00	5790509.99	71.60	8.72EN&T
140	2184646.75	5790518.70	0.00	Intersection
141	2184656.81	5790242.26	69.30	FD3"PB&C&E266
142	2182359.78	5790166.91	84.66	FDPK
143	2181430.65	5790133.83	86.26	FDPK
144	2183409.66	5789808.93	83.23	FDPK
145	2183427.78	5789432.94	81.31	FDBCWMON
146	2183193.28	5789041.72	78.25	FDSTRA&S
147	2183147.54	5789095.64	78.11	FDSTRA&S
148	2183194.98	5789333.78	80.33	FDSTRA&S
149	2183198.89	5789356.86	80.52	FDSTRA&S
150	2183149.38	5789485.64	81.37	FDBCWMON
151	2183115.75	5789478.55	81.37	FDBCWMON
152	2182985.80	5789473.84	80.83	FDBCWMON
153	2182961.04	5789494.10	81.44	FDN&T
154	2183001.26	5789036.95	79.02	FDBCWMON
155	2182600.50	5788819.50	77.04	FDBCWMON
156	2182510.08	5789003.25	78.12	FDBCWMON
157	2182503.30	5789194.46	78.85	FDBCWMON
158	2182457.30	5789343.70	79.25	FDBCWMON
159	2182401.07	5789468.10	79.52	FDBCWMON
160	2182010.84	5789454.22	80.24	FDBCWMON
161	2182044.20	5789457.33	75.80	FDBCWMON
162	2182446.82	5788588.12	76.16	FDBCWMON
163	2182266.94	5788948.17	78.02	FDBCWMON
164	2182257.61	5789210.44	78.86	FDBCWMON
165	2182103.08	5788205.21	77.10	FDBCWMON
166	2182177.60	5788136.18	76.47	FDBCWMON
167	2182186.82	5787857.36	74.85	FDBCWMON
168	2182271.37	5787637.24	73.48	FDBCWMON
169	2182279.65	5787627.33	73.42	FDBCWMON
170	2182499.80	5787372.28	71.34	FDBCWMON
171	2182524.68	5787292.01	70.95	FDBCWMON
172	2182497.49	5787048.56	68.68	FDBCWMON
173	2182492.81	5786991.68	68.29	FDBCWMON
174	2182378.14	5786983.74	70.12	FDBCWMON
175	2181527.37	5787932.42	75.14	FDBCWMON
176	2181426.72	5787913.31	75.37	FDN&T3146

BASIS OF COORDINATES AND BEARINGS
THE COORDINATES AND BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 0405, (1983.35) IN ACCORDANCE WITH THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID COORDINATES AND BEARINGS ARE BASED LOCALLY UPON FILED-OBSERVED TIE TO THE FOLLOWING CONTROL NETWORK FOR THE SANTA MARIA VALLEY TOPOGRAPHIC MAPPING & GPS PROJECT:
REFERENCED CONTROL NETWORK FOR THE SANTA MARIA VALLEY TOPOGRAPHIC MAPPING & GPS PROJECT:
POINT NUMBER 1001
MONUMENT TYPE - 2 1/2" BRASS CAP "S.B.Co. Gps Control 1992 PLS 5470 STA. 1001" IN MONUMENT WELL AT THE NORTHEASTERLY EDGE OF PAVEMENT AT SIMAS ROAD / 11TH STREET INTERSECTION / BEND.

STATION	NORTHING(ft)	EASTING(ft)	MAPPING ANGLE	COMBINATION FACTOR	ELEVATION(NAVD88)(ft)	ELLIP.H.T.
1001	2184023.83	5795259.09	-1'27'29.89"	0.9999298	99.25	-11.78

TO OBTAIN GROUND DISTANCES AND GEODETIC NORTH, MULTIPLE GRID DISTANCES (DISTANCES SHOWN HEREON) BY 1.0000702 AND ROTATE GRID BEARINGS COUNTERCLOCKWISE BY 1'27'29.89" TO OBTAIN GEODETIC BEARINGS.

DATE	REVISION
10-27-16	REVISED R.O.W. & UTILITY ALIGNMENTS

DWG: N:\Guadalupe\0405-2016-002_Lit\Stations & Trunk_Main\000_Engineering\01_CAD\Planes\Pioneer LS Force Main\03.dwg Layout Name: C:\03 - Pinned by: Timothy Michale Date: 9/10/2024, 2:45 PM XREFS: REF-Gdb\PLS.mxd Images: City of Guadalupe Seal.jpg - C:\MCK\img



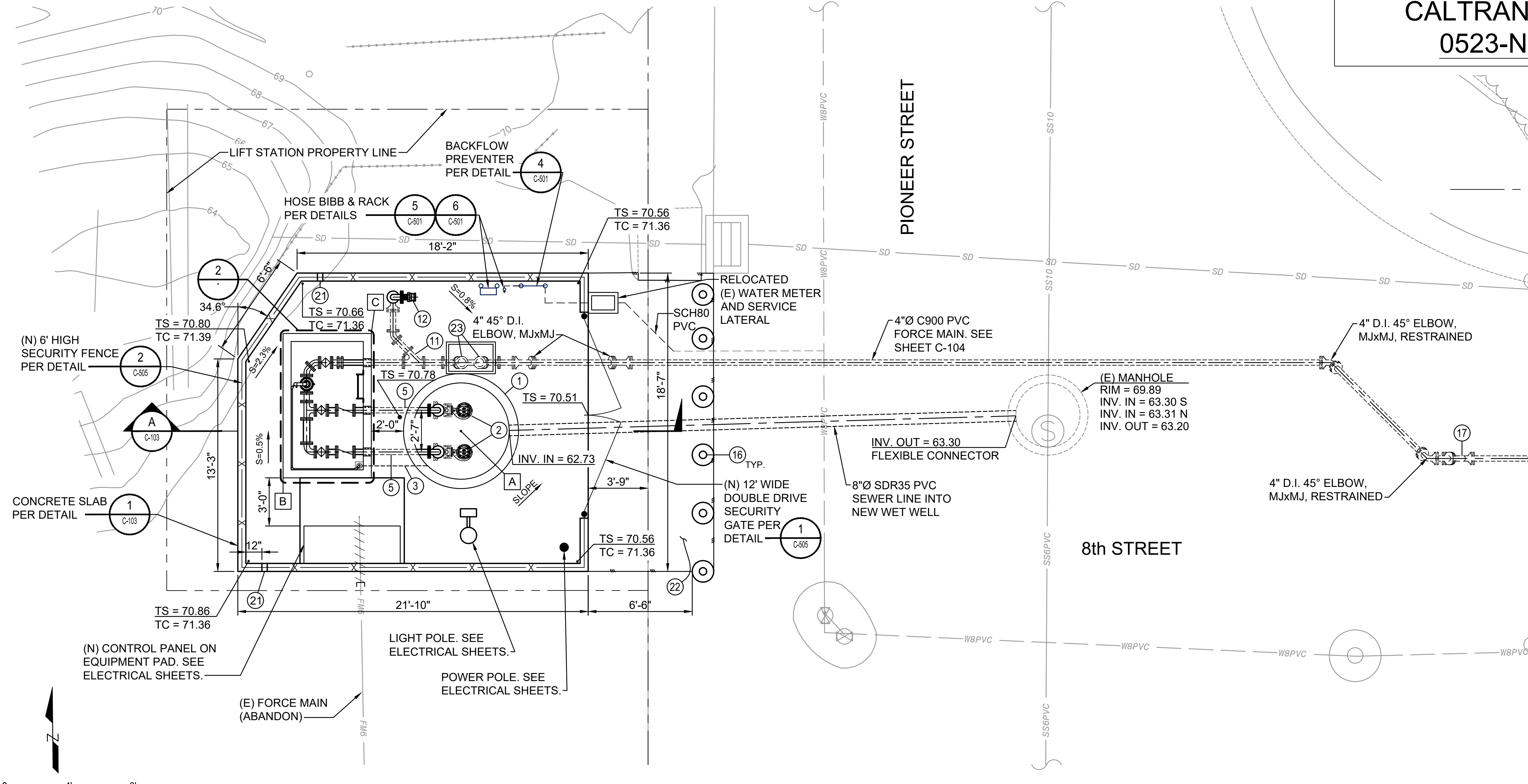
Know what's below.
Call before you dig.

GENERAL NOTES:

- SUBMIT DEWATERING PLAN PER SPECIFICATION SECTION 312319 AND SHORING PLAN PER SPECIFICATION SECTION 314100.
- SUBMIT PLAN TEMPORARY BYPASS PLAN PER SPECIFICATION SECTION 015800. A PRESSURE CLEANOUT IS SHOW FOR USE IN THE TEMPORARY BYPASS SYSTEM. CONTRACTOR MAY SUBMIT AN ALTERNATIVE LOCATION AND/OR PLAN FOR REVIEW AND APPROVAL.
- TRENCH REPAIR SHALL BE PER DETAIL 1 C-501
- INSTALL CITY FURNISHED WATER METER.

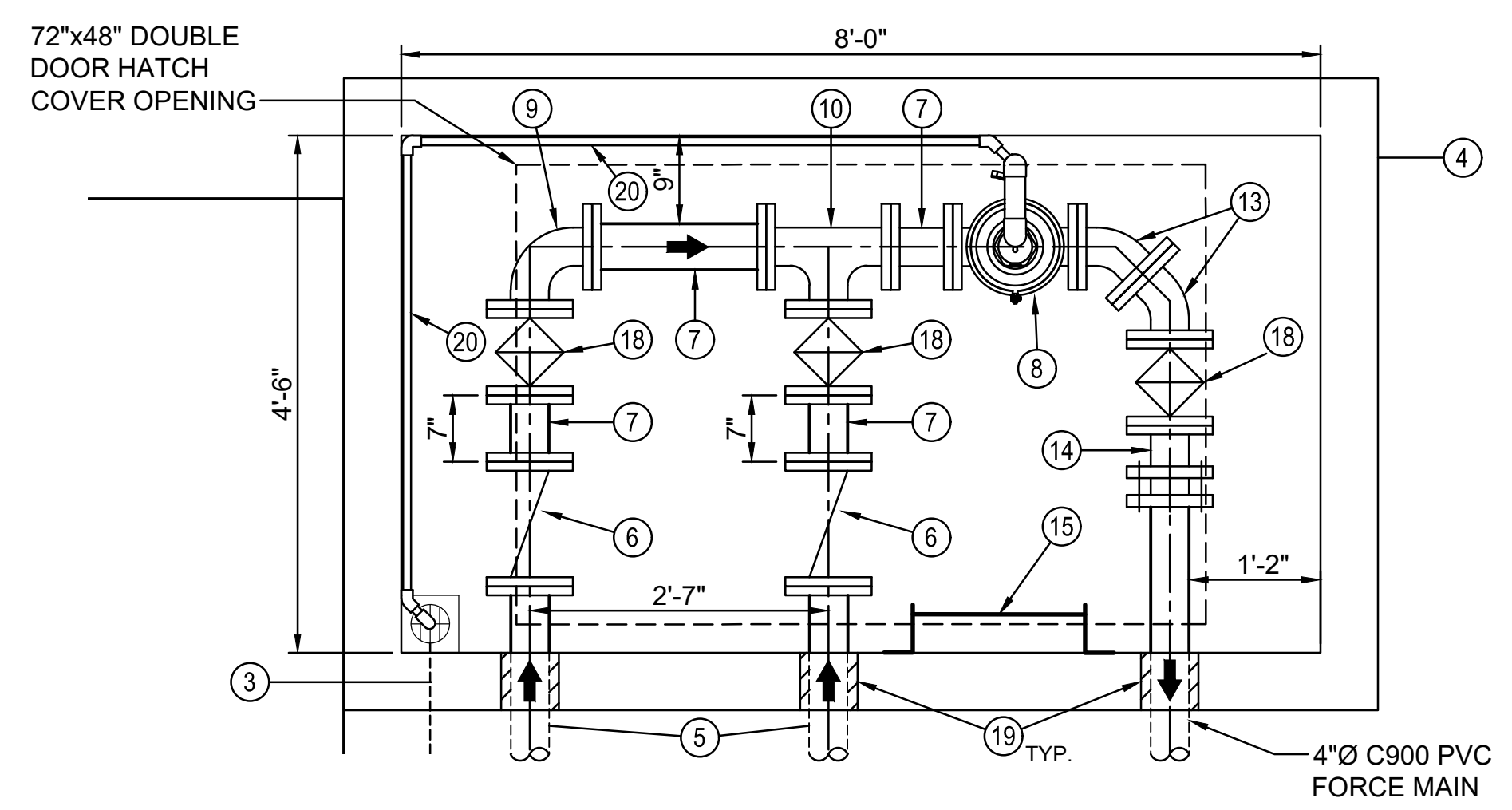
CONSTRUCTION NOTES

- | TAG | DESCRIPTION |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | 72"Ø PRECAST CONCRETE WET WELL PER SPECIFICATION SECTION 034230 |
| 2 | SUBMERSIBLE PUMPS (TYP. OF 2) |
| 3 | 4"Ø SCH80 PVC VAULT DRAIN |
| 4 | 4'-6" x 8'-0" PRECAST CONCRETE VAULT WITH 48"x72" DOUBLE DOOR LOCKABLE ALUMINUM HATCH COVER AS MANUFACTURED BY MIDSTATE CONCRETE PRODUCTS OR APPROVED EQUAL. |
| 5 | 4"Ø DUCTILE IRON PIPE |
| 6 | 4" CHECK VALVE, FLGXFLG |
| 7 | 4"Ø DUCTILE IRON SPOOL, FLGXFLG |
| 8 | 2" COMBINATION AIR VALVE PER DETAIL 3 C-502 |
| 9 | 4" 90° D.I. ELBOW, FLGXFLG |
| 10 | 4" D.I. TEE, FLG'D |
| 11 | 4" WYE, FLG'D |
| 12 | BYPASS RISER, 3" MALE CAMLOCK WITH CAP PER DETAIL 3 C-503 |
| 13 | 4" 45° D.I. ELBOW, FLGXFLG |
| 14 | 4" FLANGE COUPLING ADAPTER, RESTRAINED |
| 15 | LADDER PER DETAIL 2 C-504 4 C-502 |
| 16 | REMOVABLE BOLLARD PER DETAIL 2 C-503 |
| 17 | INLINE PRESSURE CLEANOUT FOR TEMPORARY BYPASSING PER DETAIL 2 C-503 |
| 18 | 4" PLUG VALVE, FLGXFLG |
| 19 | PIPE PENETRATION PER DETAIL 5 C-502 |
| 20 | 1"Ø SCH80 PVC DRAIN PIPE TO VAULT DRAIN. MOUNT ON WALL WITH SST PIPE CLAMPS. SLOPE TO VAULT DRAIN. |
| 21 | PROVIDE 4" WIDE BLOCK OUT IN CURB FOR DRAINAGE. |
| 22 | 4" HMA PAVEMENT PER SPECIFICATION SECTION 321216 OVER 12" OF CLASS II AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION. |
| 23 | TWO WAY PRESSURE CLEANOUT PER DETAIL 2 C-503 |



PIONEER LIFT STATION SITE PLAN
SCALE: 1" = 4'-0"

SITE DATA			
ITEM	NORTHING	EASTING	DESCRIPTION
A	2184697.1500	5790232.0600	CENTER OF WET WELL
B	2184694.6400	5790220.8700	SOUTHWEST EXTERIOR CORNER OF VALVE VAULT
C	2184703.4300	5790226.7000	NORTHEAST EXTERIOR CORNER OF VALVE VAULT



PIONEER LIFT STATION - VALVE VAULT
SCALE: 3/4" = 1'-0"

APPR. EXP. DATE
DESCRIPTION REG. NUMBER C63124
PROJECT ENGINEER JOSEPH J. REICHMUTH
PROJECT NO. C63124

mka
354 PACIFIC ST
SAN LUIS OBISPO, CA 93401
(805) 329-4773

CITY OF GUADALUPE
PIONEER LIFT STATION AND FORCE MAIN PROJECT
PIONEER LIFT STATION
SITE PLAN

DESIGNED: JJR
DETAILED: JPF
CHECKED:
APPROVED:
DATE: SEPTEMBER 2024

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE
PROJECT NO. C-102
SHEET 5 OF 16

DWG: N:\Guadalupe\G\2018-002_Lift Stations & Trunk Main\030_Engineering\01 CAD\Permit\Pioneer LS Force Main\C-102.dwg Layout Name: C-102 - Plotted by: Timothy Michale Date: 9/10/2024 - 3:02 PM XREFS: REF-C-51 REF-C-52 REF-C-53 REF-C-54 REF-C-55 REF-C-56 REF-C-57 REF-C-58 REF-C-59 REF-C-60 REF-C-61 REF-C-62 REF-C-63 REF-C-64 REF-C-65 REF-C-66 REF-C-67 REF-C-68 REF-C-69 REF-C-70 REF-C-71 REF-C-72 REF-C-73 REF-C-74 REF-C-75 REF-C-76 REF-C-77 REF-C-78 REF-C-79 REF-C-80 REF-C-81 REF-C-82 REF-C-83 REF-C-84 REF-C-85 REF-C-86 REF-C-87 REF-C-88 REF-C-89 REF-C-90 REF-C-91 REF-C-92 REF-C-93 REF-C-94 REF-C-95 REF-C-96 REF-C-97 REF-C-98 REF-C-99 REF-C-100 REF-C-101 REF-C-102 REF-C-103 REF-C-104 REF-C-105 REF-C-106 REF-C-107 REF-C-108 REF-C-109 REF-C-110 REF-C-111 REF-C-112 REF-C-113 REF-C-114 REF-C-115 REF-C-116 REF-C-117 REF-C-118 REF-C-119 REF-C-120 REF-C-121 REF-C-122 REF-C-123 REF-C-124 REF-C-125 REF-C-126 REF-C-127 REF-C-128 REF-C-129 REF-C-130 REF-C-131 REF-C-132 REF-C-133 REF-C-134 REF-C-135 REF-C-136 REF-C-137 REF-C-138 REF-C-139 REF-C-140 REF-C-141 REF-C-142 REF-C-143 REF-C-144 REF-C-145 REF-C-146 REF-C-147 REF-C-148 REF-C-149 REF-C-150 REF-C-151 REF-C-152 REF-C-153 REF-C-154 REF-C-155 REF-C-156 REF-C-157 REF-C-158 REF-C-159 REF-C-160 REF-C-161 REF-C-162 REF-C-163 REF-C-164 REF-C-165 REF-C-166 REF-C-167 REF-C-168 REF-C-169 REF-C-170 REF-C-171 REF-C-172 REF-C-173 REF-C-174 REF-C-175 REF-C-176 REF-C-177 REF-C-178 REF-C-179 REF-C-180 REF-C-181 REF-C-182 REF-C-183 REF-C-184 REF-C-185 REF-C-186 REF-C-187 REF-C-188 REF-C-189 REF-C-190 REF-C-191 REF-C-192 REF-C-193 REF-C-194 REF-C-195 REF-C-196 REF-C-197 REF-C-198 REF-C-199 REF-C-200 REF-C-201 REF-C-202 REF-C-203 REF-C-204 REF-C-205 REF-C-206 REF-C-207 REF-C-208 REF-C-209 REF-C-210 REF-C-211 REF-C-212 REF-C-213 REF-C-214 REF-C-215 REF-C-216 REF-C-217 REF-C-218 REF-C-219 REF-C-220 REF-C-221 REF-C-222 REF-C-223 REF-C-224 REF-C-225 REF-C-226 REF-C-227 REF-C-228 REF-C-229 REF-C-230 REF-C-231 REF-C-232 REF-C-233 REF-C-234 REF-C-235 REF-C-236 REF-C-237 REF-C-238 REF-C-239 REF-C-240 REF-C-241 REF-C-242 REF-C-243 REF-C-244 REF-C-245 REF-C-246 REF-C-247 REF-C-248 REF-C-249 REF-C-250 REF-C-251 REF-C-252 REF-C-253 REF-C-254 REF-C-255 REF-C-256 REF-C-257 REF-C-258 REF-C-259 REF-C-260 REF-C-261 REF-C-262 REF-C-263 REF-C-264 REF-C-265 REF-C-266 REF-C-267 REF-C-268 REF-C-269 REF-C-270 REF-C-271 REF-C-272 REF-C-273 REF-C-274 REF-C-275 REF-C-276 REF-C-277 REF-C-278 REF-C-279 REF-C-280 REF-C-281 REF-C-282 REF-C-283 REF-C-284 REF-C-285 REF-C-286 REF-C-287 REF-C-288 REF-C-289 REF-C-290 REF-C-291 REF-C-292 REF-C-293 REF-C-294 REF-C-295 REF-C-296 REF-C-297 REF-C-298 REF-C-299 REF-C-300 REF-C-301 REF-C-302 REF-C-303 REF-C-304 REF-C-305 REF-C-306 REF-C-307 REF-C-308 REF-C-309 REF-C-310 REF-C-311 REF-C-312 REF-C-313 REF-C-314 REF-C-315 REF-C-316 REF-C-317 REF-C-318 REF-C-319 REF-C-320 REF-C-321 REF-C-322 REF-C-323 REF-C-324 REF-C-325 REF-C-326 REF-C-327 REF-C-328 REF-C-329 REF-C-330 REF-C-331 REF-C-332 REF-C-333 REF-C-334 REF-C-335 REF-C-336 REF-C-337 REF-C-338 REF-C-339 REF-C-340 REF-C-341 REF-C-342 REF-C-343 REF-C-344 REF-C-345 REF-C-346 REF-C-347 REF-C-348 REF-C-349 REF-C-350 REF-C-351 REF-C-352 REF-C-353 REF-C-354 REF-C-355 REF-C-356 REF-C-357 REF-C-358 REF-C-359 REF-C-360 REF-C-361 REF-C-362 REF-C-363 REF-C-364 REF-C-365 REF-C-366 REF-C-367 REF-C-368 REF-C-369 REF-C-370 REF-C-371 REF-C-372 REF-C-373 REF-C-374 REF-C-375 REF-C-376 REF-C-377 REF-C-378 REF-C-379 REF-C-380 REF-C-381 REF-C-382 REF-C-383 REF-C-384 REF-C-385 REF-C-386 REF-C-387 REF-C-388 REF-C-389 REF-C-390 REF-C-391 REF-C-392 REF-C-393 REF-C-394 REF-C-395 REF-C-396 REF-C-397 REF-C-398 REF-C-399 REF-C-400 REF-C-401 REF-C-402 REF-C-403 REF-C-404 REF-C-405 REF-C-406 REF-C-407 REF-C-408 REF-C-409 REF-C-410 REF-C-411 REF-C-412 REF-C-413 REF-C-414 REF-C-415 REF-C-416 REF-C-417 REF-C-418 REF-C-419 REF-C-420 REF-C-421 REF-C-422 REF-C-423 REF-C-424 REF-C-425 REF-C-426 REF-C-427 REF-C-428 REF-C-429 REF-C-430 REF-C-431 REF-C-432 REF-C-433 REF-C-434 REF-C-435 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REF-C-636 REF-C-637 REF-C-638 REF-C-639 REF-C-640 REF-C-641 REF-C-642 REF-C-643 REF-C-644 REF-C-645 REF-C-646 REF-C-647 REF-C-648 REF-C-649 REF-C-650 REF-C-651 REF-C-652 REF-C-653 REF-C-654 REF-C-655 REF-C-656 REF-C-657 REF-C-658 REF-C-659 REF-C-660 REF-C-661 REF-C-662 REF-C-663 REF-C-664 REF-C-665 REF-C-666 REF-C-667 REF-C-668 REF-C-669 REF-C-670 REF-C-671 REF-C-672 REF-C-673 REF-C-674 REF-C-675 REF-C-676 REF-C-677 REF-C-678 REF-C-679 REF-C-680 REF-C-681 REF-C-682 REF-C-683 REF-C-684 REF-C-685 REF-C-686 REF-C-687 REF-C-688 REF-C-689 REF-C-690 REF-C-691 REF-C-692 REF-C-693 REF-C-694 REF-C-695 REF-C-696 REF-C-697 REF-C-698 REF-C-699 REF-C-700 REF-C-701 REF-C-702 REF-C-703 REF-C-704 REF-C-705 REF-C-706 REF-C-707 REF-C-708 REF-C-709 REF-C-710 REF-C-711 REF-C-712 REF-C-713 REF-C-714 REF-C-715 REF-C-716 REF-C-717 REF-C-718 REF-C-719 REF-C-720 REF-C-721 REF-C-722 REF-C-723 REF-C-724 REF-C-725 REF-C-726 REF-C-727 REF-C-728 REF-C-729 REF-C-730 REF-C-731 REF-C-732 REF-C-733 REF-C-734 REF-C-735 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REF-C-836 REF-C-837 REF-C-838 REF-C-839 REF-C-840 REF-C-841 REF-C-842 REF-C-843 REF-C-844 REF-C-845 REF-C-846 REF-C-847 REF-C-848 REF-C-849 REF-C-850 REF-C-851 REF-C-852 REF-C-853 REF-C-854 REF-C-855 REF-C-856 REF-C-857 REF-C-858 REF-C-859 REF-C-860 REF-C-861 REF-C-862 REF-C-863 REF-C-864 REF-C-865 REF-C-866 REF-C-867 REF-C-868 REF-C-869 REF-C-870 REF-C-871 REF-C-872 REF-C-873 REF-C-874 REF-C-875 REF-C-876 REF-C-877 REF-C-878 REF-C-879 REF-C-880 REF-C-881 REF-C-882 REF-C-883 REF-C-884 REF-C-885 REF-C-886 REF-C-887 REF-C-888 REF-C-889 REF-C-890 REF-C-891 REF-C-892 REF-C-893 REF-C-894 REF-C-895 REF-C-896 REF-C-897 REF-C-898 REF-C-899 REF-C-900 REF-C-901 REF-C-902 REF-C-903 REF-C-904 REF-C-905 REF-C-906 REF-C-907 REF-C-908 REF-C-909 REF-C-910 REF-C-911 REF-C-912 REF-C-913 REF-C-914 REF-C-915 REF-C-916 REF-C-917 REF-C-918 REF-C-919 REF-C-920 REF-C-921 REF-C-922 REF-C-923 REF-C-924 REF-C-925 REF-C-926 REF-C-927 REF-C-928 REF-C-929 REF-C-930 REF-C-931 REF-C-932 REF-C-933 REF-C-934 REF-C-935 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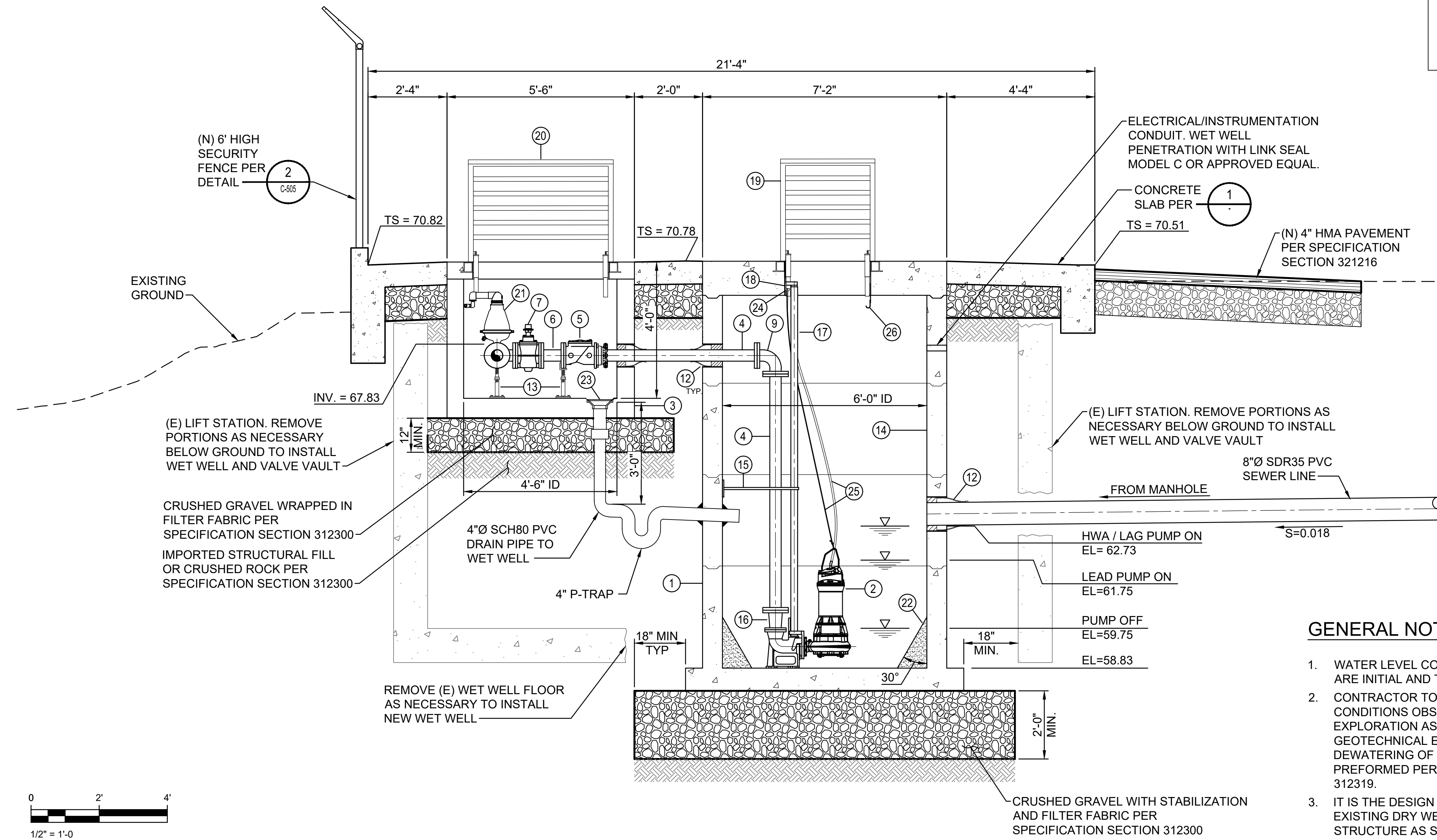
Know what's below.
Call before you dig.

CONSTRUCTION NOTES:

- | TAG | DESCRIPTION |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ① | 72"Ø PRECAST CONCRETE WET WELL PER SPECIFICATION SECTION 034230 |
| ② | 2.7 HP CONSTANT SPEED SUBMERSIBLE PUMPS WITH STAINLESS STEEL LIFTING CABLE, 150 GPM @ 25 FT TDH. |
| ③ | 4'-6" x 8'-0" PRECAST CONCRETE VAULT WITH DOUBLE DOOR LOCKABLE ALUMINUM HATCH COVER PER SPECIFICATION SECTION 034220. |
| ④ | 4"Ø DUCTILE IRON PIPE |
| ⑤ | 4" CHECK VALVE, FLGxFLG |
| ⑥ | 4"Ø DUCTILE IRON SPOOL, FLGxFLG |
| ⑦ | 4" PLUG VALVE, FLGxFLG |
| ⑧ | NOT USED |
| ⑨ | 4" 90° DUCTILE IRON ELBOW, FLGxFLG |
| ⑩ | NOT USED |
| ⑪ | NOT USED |
| ⑫ | WALL PENETRATION PER DETAIL |
| ⑬ | PIPE SUPPORT PER DETAIL |
| ⑭ | COAT WET WELL PER SPECIFICATION SECTION 099720 |
| ⑮ | INTERMEDIATE SUPPORT BRACKET, SST |
| ⑯ | 4"x3" D.I. REDUCER, FLGxFLG |
| ⑰ | 316 SST GUIDE RAIL, SIZE PER MANUFACTURER'S RECOMMENDATION |
| ⑱ | BRACKET ATTACHMENT |
| ⑲ | 30"x60" DOUBLE DOOR LOCKABLE ALUMINUM HATCH WITH FALL PROTECTION PER SPECIFICATION SECTION 055300. LOCATE HATCH OPENING TO PROVIDE 4" CLEARANCE FROM OUTER EDGE OF PUMPS. |
| ⑳ | 48"x72" DOUBLE DOOR LOCKABLE ALUMINUM HATCH COVER PER SPECIFICATION SECTION 055300. |
| ㉑ | 2" COMBINATION AIR VALVE, A.R.I. D-025 OR APPROVED EQUAL. |
| ㉒ | CEMENT GROUT FILLET |
| ㉓ | 4" DRAIN WITH GRATE |
| ㉔ | PROVIDE SST HOOK ADJACENT TO GUIDE RAIL FOR MOTOR CABLE AND LIFTING CABLE. PUMP MOTOR CABLE TO BE DUNG WITH SST KELLEMS GRIP FOR STRAIN RELIEF. |
| ㉕ | 316 SST LIFTING CABLE AND ELECTRICAL CABLE |
| ㉖ | PROVIDE SST HOOK ADJACENT TO GUIDE RAIL FOR MOTOR CABLE AND LIFTING CABLE. PUMP MOTOR CABLE TO BE HUNG WITH SST KELLEMS GRIP FOR STRAIN RELIEF. |

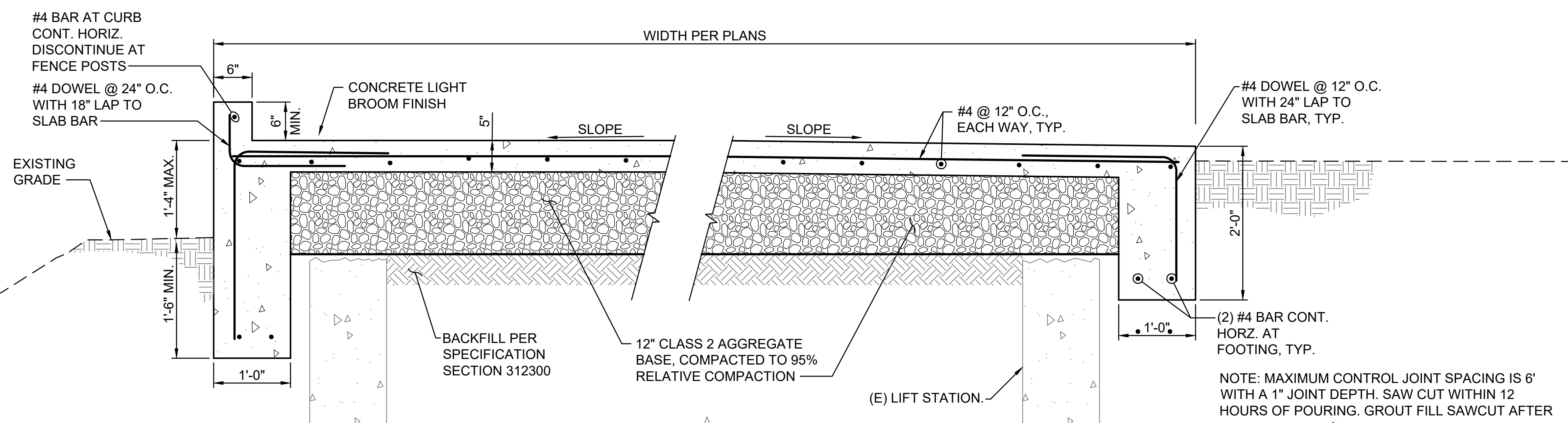
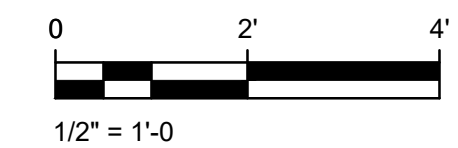
GENERAL NOTES:

- WATER LEVEL CONTROL ELEVATION SETTINGS ARE INITIAL AND TO BE MODIFIED IN THE FIELD.
- CONTRACTOR TO NOTE GROUND WATER CONDITIONS OBSERVED AT TIME OF FIELD EXPLORATION AS SHOWN IN THE PROJECT GEOTECHNICAL ENGINEERING REPORT. DEWATERING OF THE SITE SHALL BE PREFORMED PER SPECIFICATION SECTION 312319.
- IT IS THE DESIGN INTENT TO UTILIZE THE EXISTING DRY WELL AND WET WELL STRUCTURE AS SHORING (SEE SHEET C-101). SHORING OF EXCAVATIONS SHALL BE PER SPECIFICATION SECTION 314100.



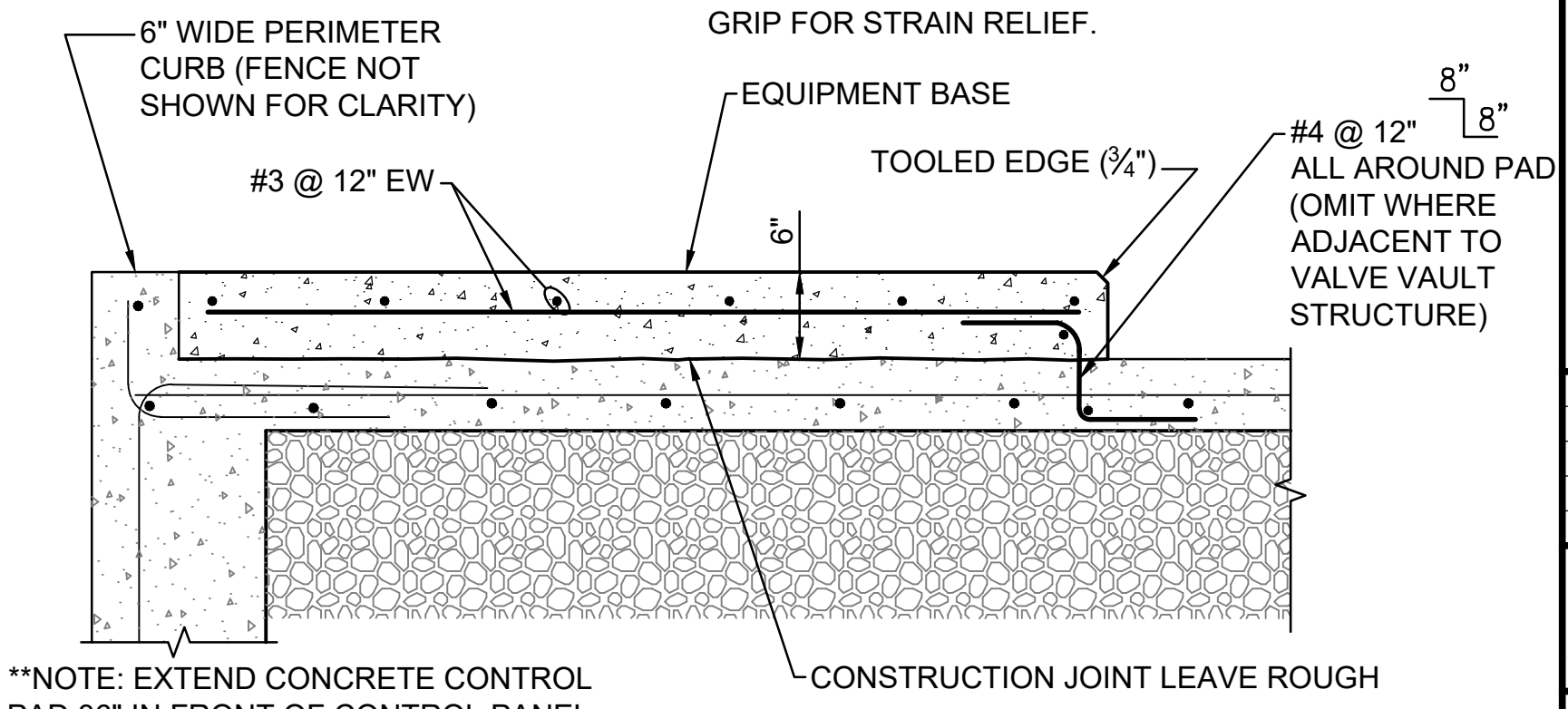
PIONEER LIFT STATION - SECTION A

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



CONCRETE FLATWORK SECTION

NOT TO SCALE



CONTROL PANEL PAD

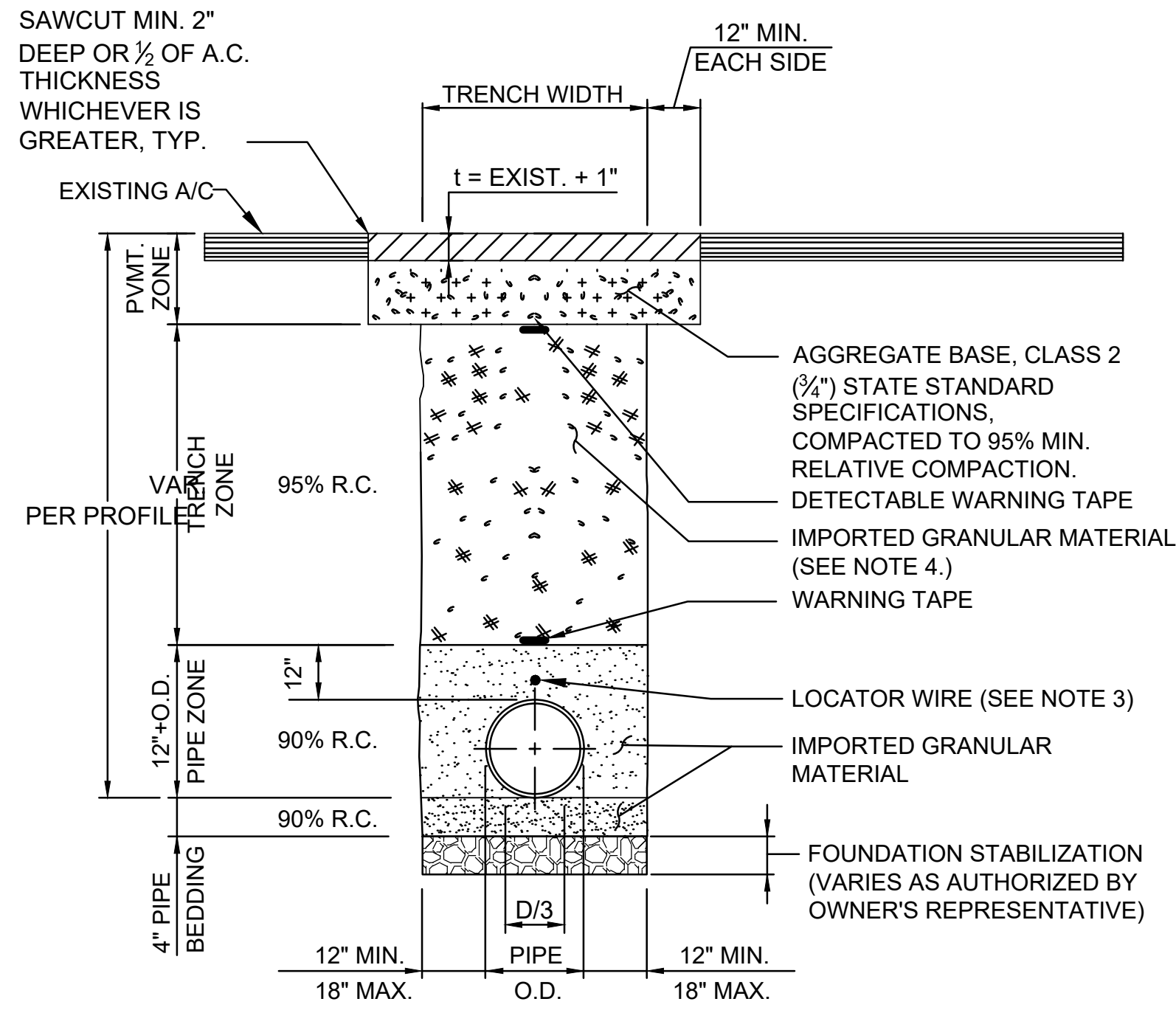
NOT TO SCALE

APPR	EXP DATE
DESCRIPTION	REG NUMBER
PROJECT ENGINEER	JOSEPH J. REICHMUTH
DATE	
REV	
354 PACIFIC ST SAN LUIS OBISPO, CA 93401 (805) 329-4773	
CITY OF GUADALUPE PIONEER LIFT STATION AND FORCE MAIN PROJECT PIONEER LIFT STATION SECTION VIEW	
DESIGNED: JJR	
DETAILED: JPF	
CHECKED:	
APPROVED:	
DATE: SEPTEMBER 2024	
PROJECT NO.	
C-103 SHEET 6 OF 16	

DWG: N:\Guadalupe\0523-002_14 Stations & Trunk Main\000 Engineering\01 CAD\Permit\01 Pioneer Lift Station\0103.dwg Layout Name: C-103 - Plotted by: Timothy Michale Date: 9/10/2024 - 3:00 PM
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Know what's below.
Call before you dig.



NOTES:

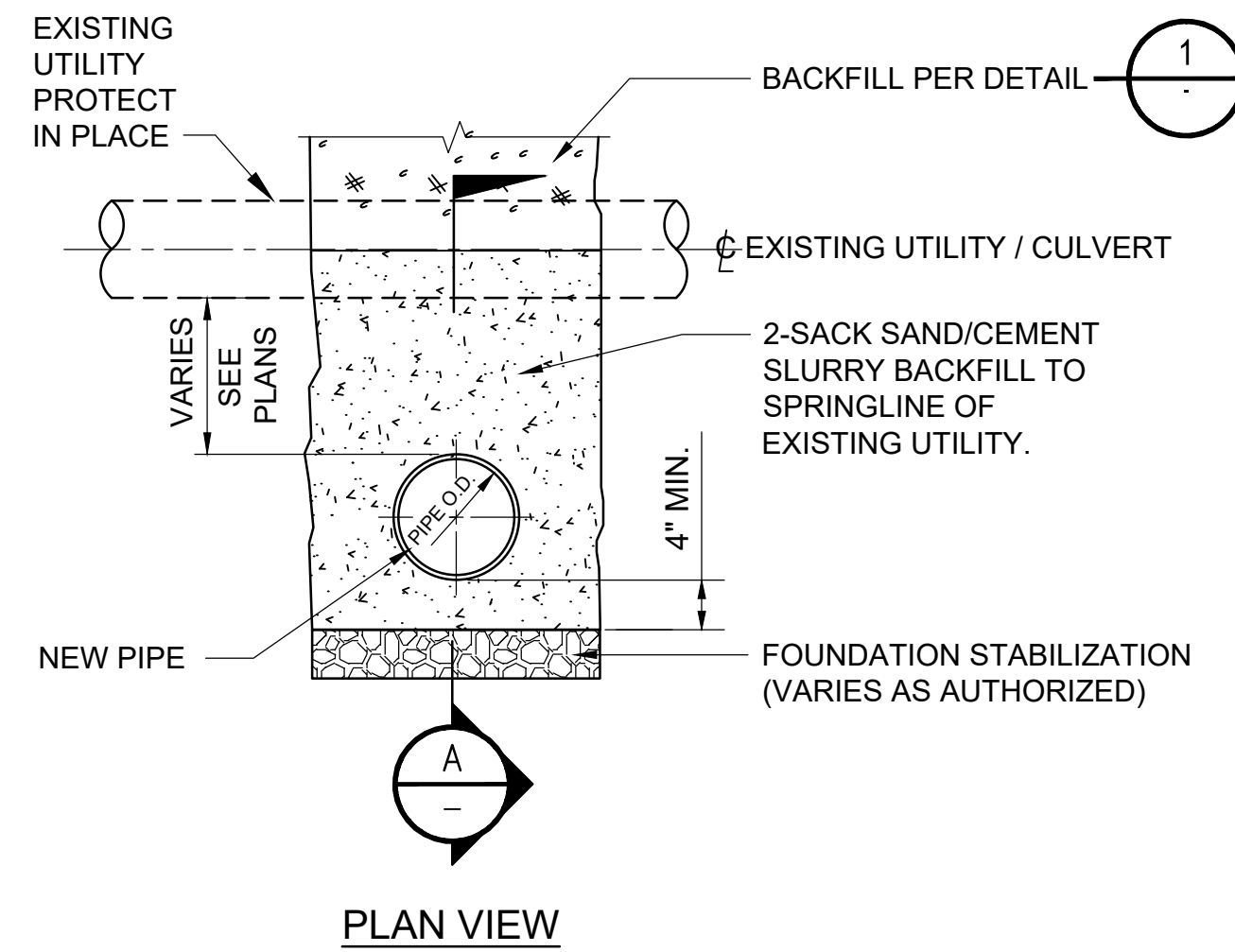
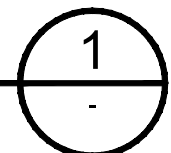
1. PROVIDE ROCK REFILL ENCASED IN FILTER FABRIC FOR OVER EXCAVATION IN SOFT, WET, OR YIELDING SOILS AND/OR FOUNDATION STABILIZATION (WHEN AUTHORIZED OR REQUIRED BY ENGINEER) PER SPEC. SECTION 312316.
2. PERFORM PRESSURE TEST OF FORCE MAIN LINE PRIOR TO FINAL SURFACE REPAIR AND IN CONFORMANCE WITH SPECIFICATION SECTION 400515.
3. INSTALL LOCATOR WIRE FOR FORCE MAIN PIPING ONLY.
4. TRENCH ZONE PER DETAIL FOR AREAS LOCATED IN CALTRANS RIGHT-OF-WAY.



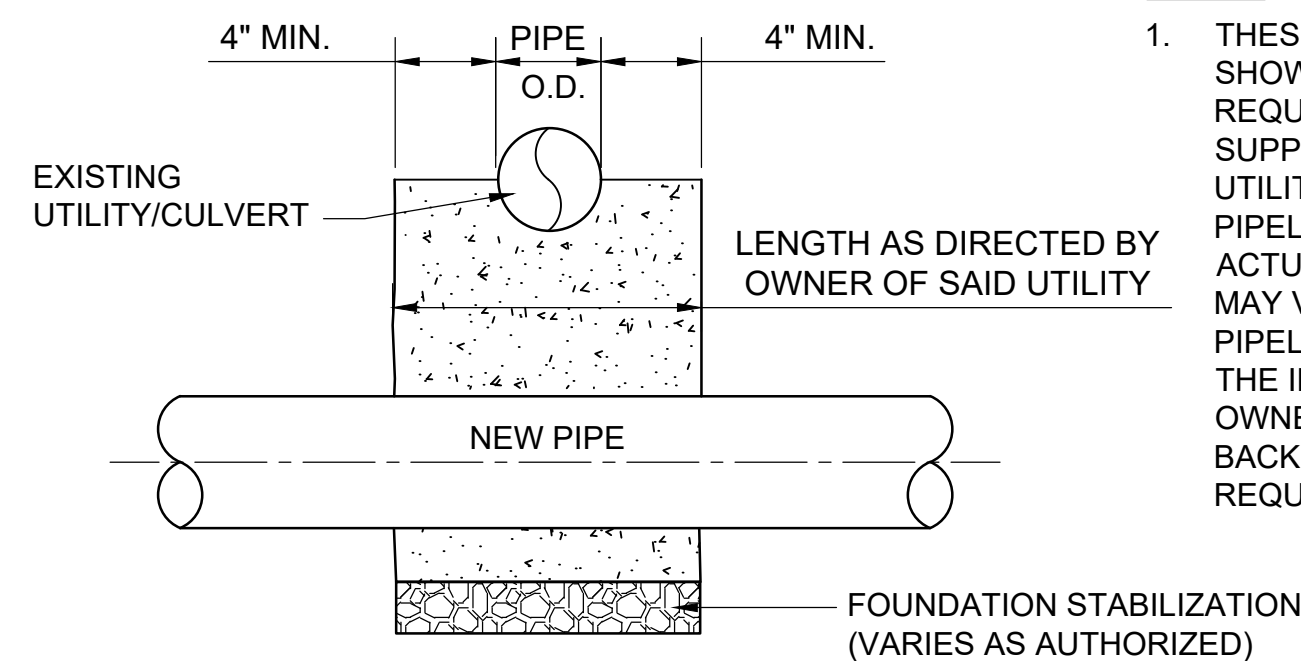
LEGEND:
A.C. PAVEMENT PER CITY OF SANTA MARIA STD. S-87, 2" MINIMUM THICKNESS WITHIN CITY RIGHT-OF-WAY. A.C. PAVEMENT WITHIN CALTRANS RIGHT-OF-WAY PER DETAIL

TRENCH DETAIL

NTS



PLAN VIEW



SECTION A

TYPICAL UTILITY CROSSING

NTS

NOTES:

1. THESE TYPICAL DETAILS SHOW THE MINIMUM REQUIREMENTS FOR SUPPORT OF EXISTING UTILITIES CROSSING THE PIPELINE TRENCH. ACTUAL REQUIREMENTS MAY VARY ALONG THE PIPELINE DEPENDING ON THE INDIVIDUAL UTILITY OWNER'S SUPPORT AND BACKFILL REQUIREMENTS.

THRUST BLOCK BEARING AREA (SQ. FT.)

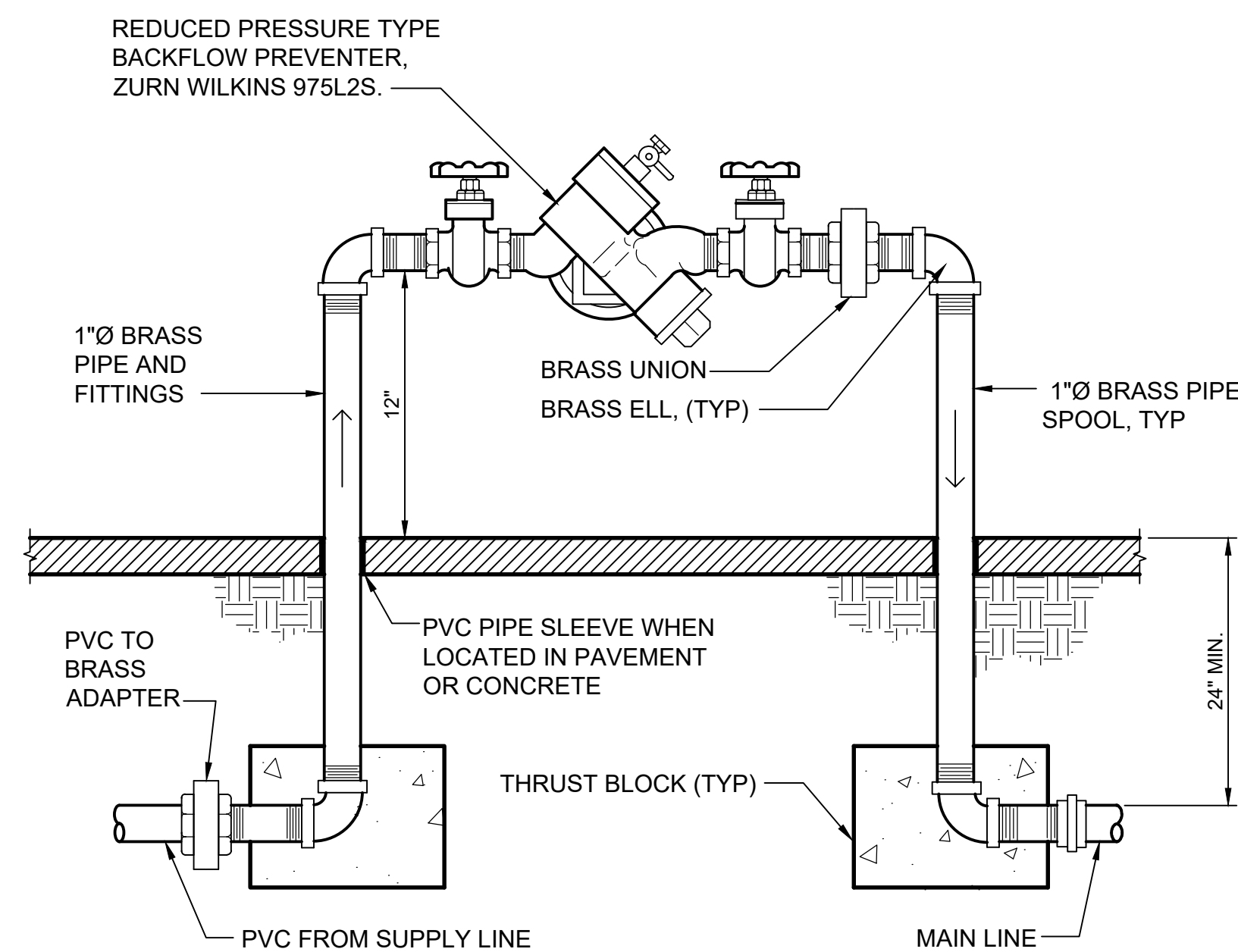
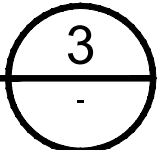
PIPE SIZE	FITTING ANGLE		
	22.50	45	90
4"	4	6	9

NOTES:

1. CONCRETE SHALL BE CLASS A PER SPECIFICATION SECTION 030500.
2. CONCRETE THRUST BLOCK TO BE POURED AGAINST UNDISTURBED SOILS.
3. THRUST BLOCK TO BE CENTERED ON CENTER OF FITTING BOTH HORIZONTALLY AND VERTICALLY.

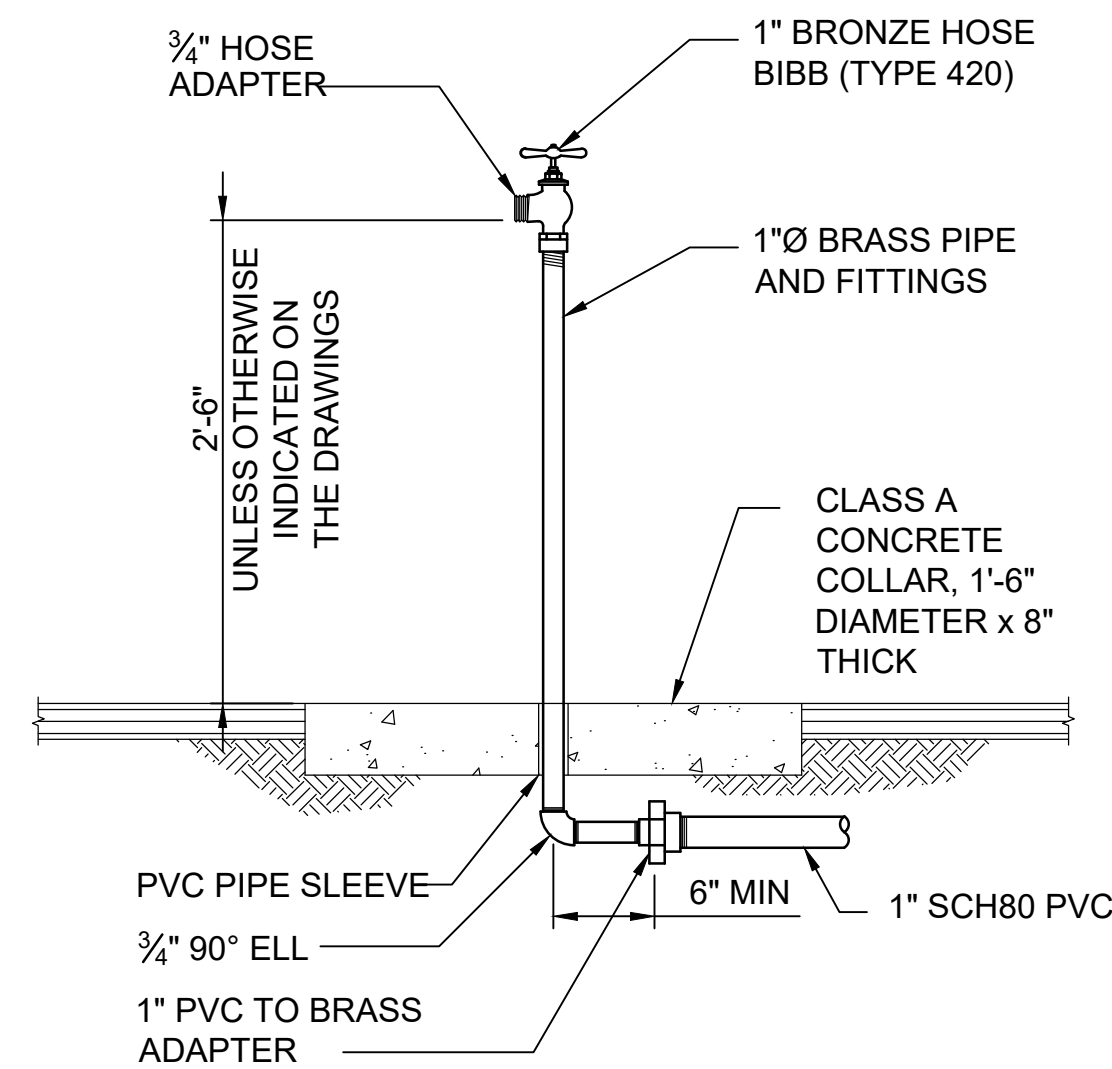
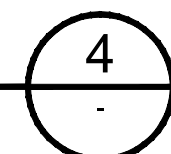
THRUST BLOCK SIZING

NTS



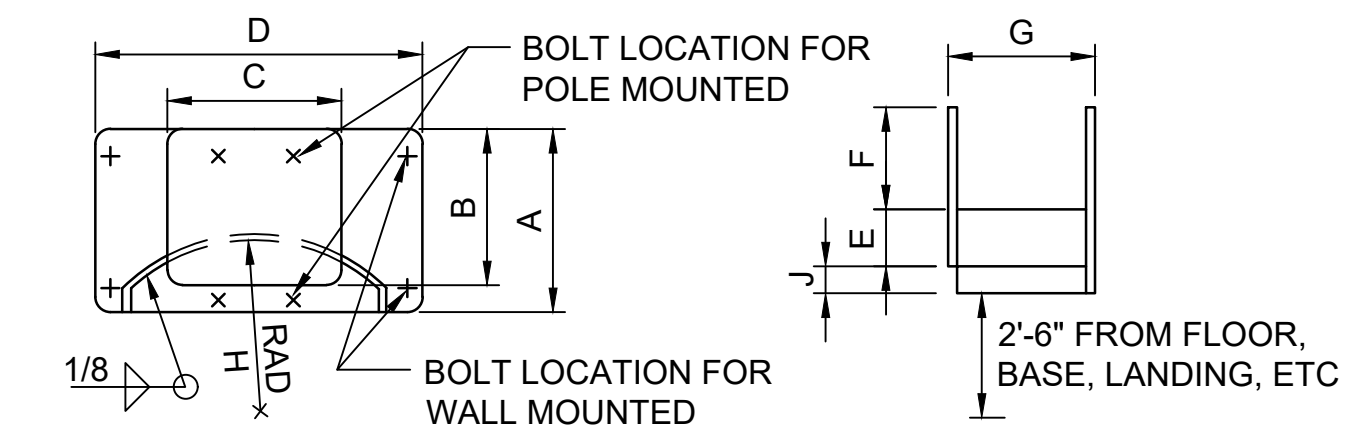
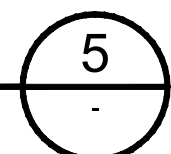
BACKFLOW PREVENTER

NTS



3/4" HOSE BIBB

NTS

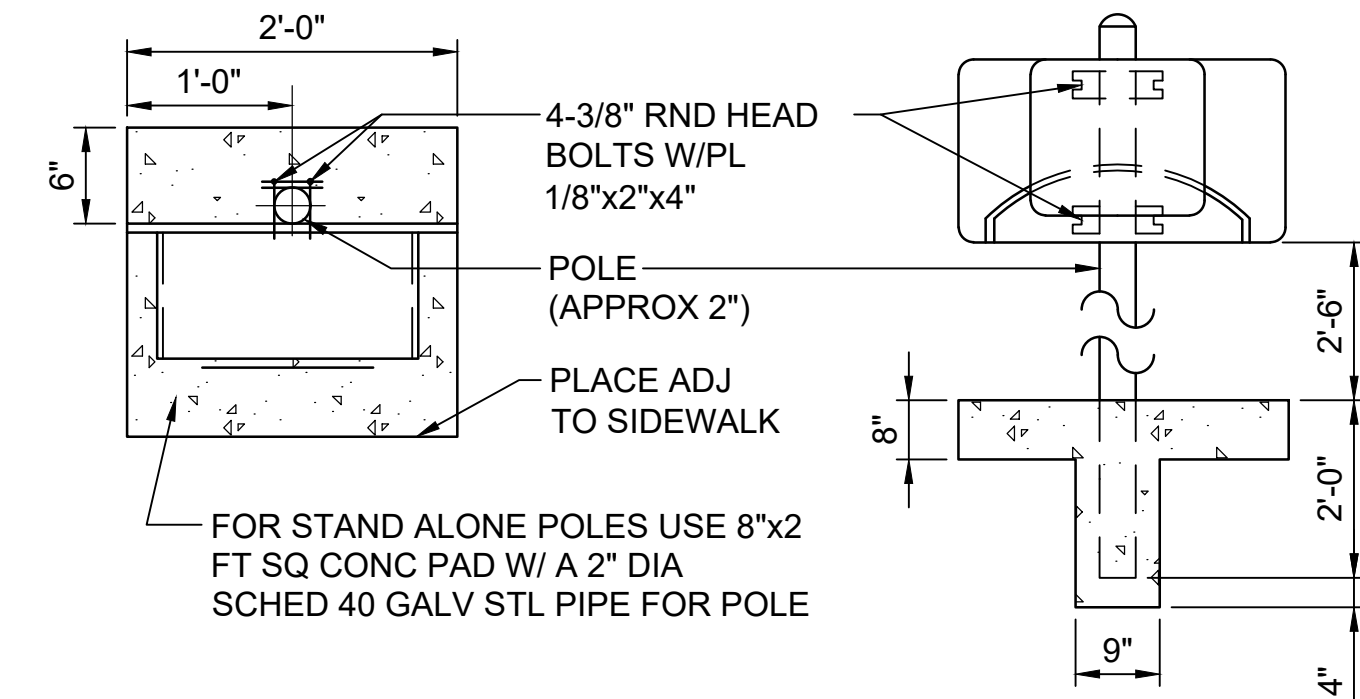


DIMENSION IN INCHES

RACK TYPE	A	B	C	D	E	F	G	H	J
3/4 HOSE	10-1/2	9	9	18	3	6	7-1/2	9-3/4	1-1/2

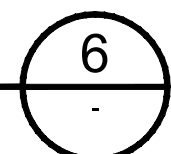
NOTE:

UNITS FABRICATED FROM 1/8" 6061-T6 AL ALLOY PLATE USE TYPE "A" UNO ON DWGS WALL MOUNTED - ATTACH TO CONC WALL W/ 3/8" SST STUD TYPE WEDGE ANCHORS POLE MOUNTED - INCLUDES POSTS, HANDRAILS, STANCHIONS, ETC SEE BELOW



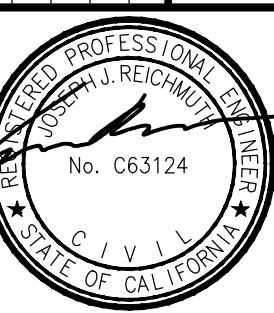
FABRICATED ALUMINUM HOSE RACK

NTS



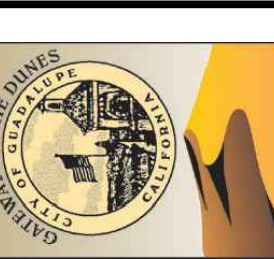
APPR	DATE	DESCRIPTION	REG. NUMBER
			C63124

PROJECT ENGINEER
JOSEPH J. REICHMUTH



mkn

354 PACIFIC ST
SAN LUIS OBISPO, CA 93401
(805) 329-4773



CITY OF GUADALUPE
PIONEER LIFT STATION AND FORCE MAIN PROJECT
CIVIL DETAILS - 1

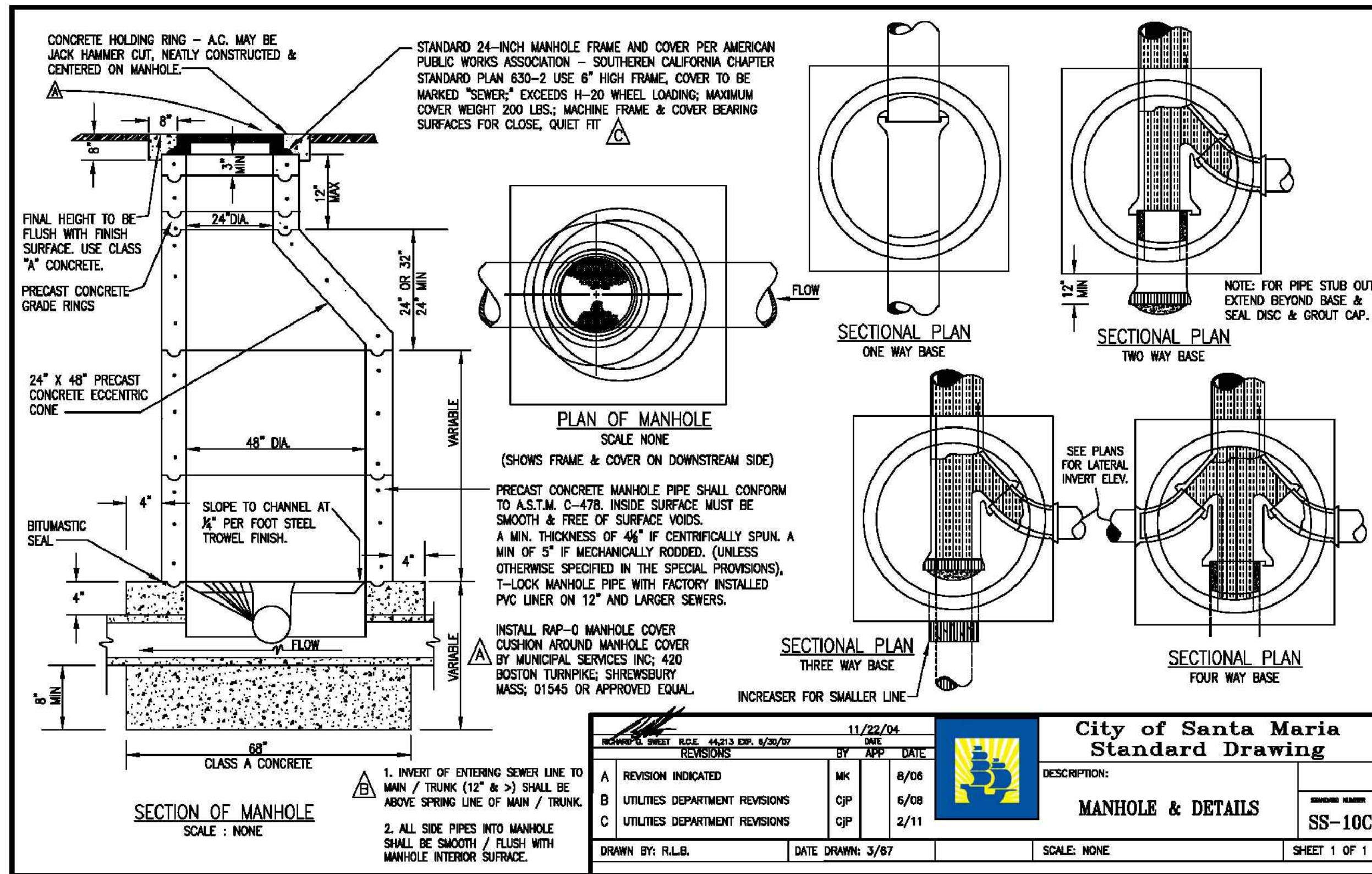
DESIGNED: JJR
DETAILED: JPF
CHECKED:
APPROVED:
DATE: SEPTEMBER 2024

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.

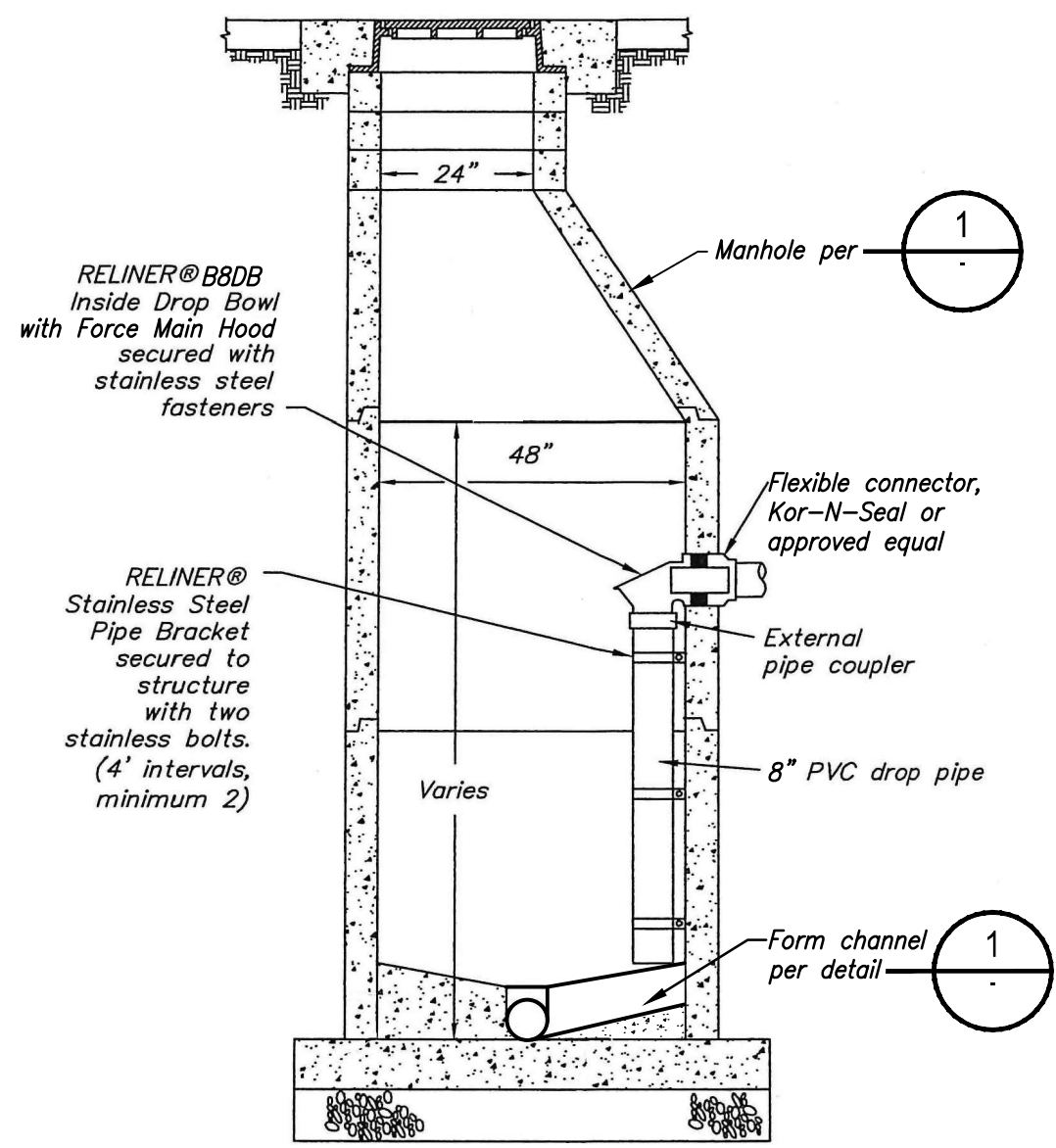


Know what's below.
Call before you dig.



MANHOLE DETAIL

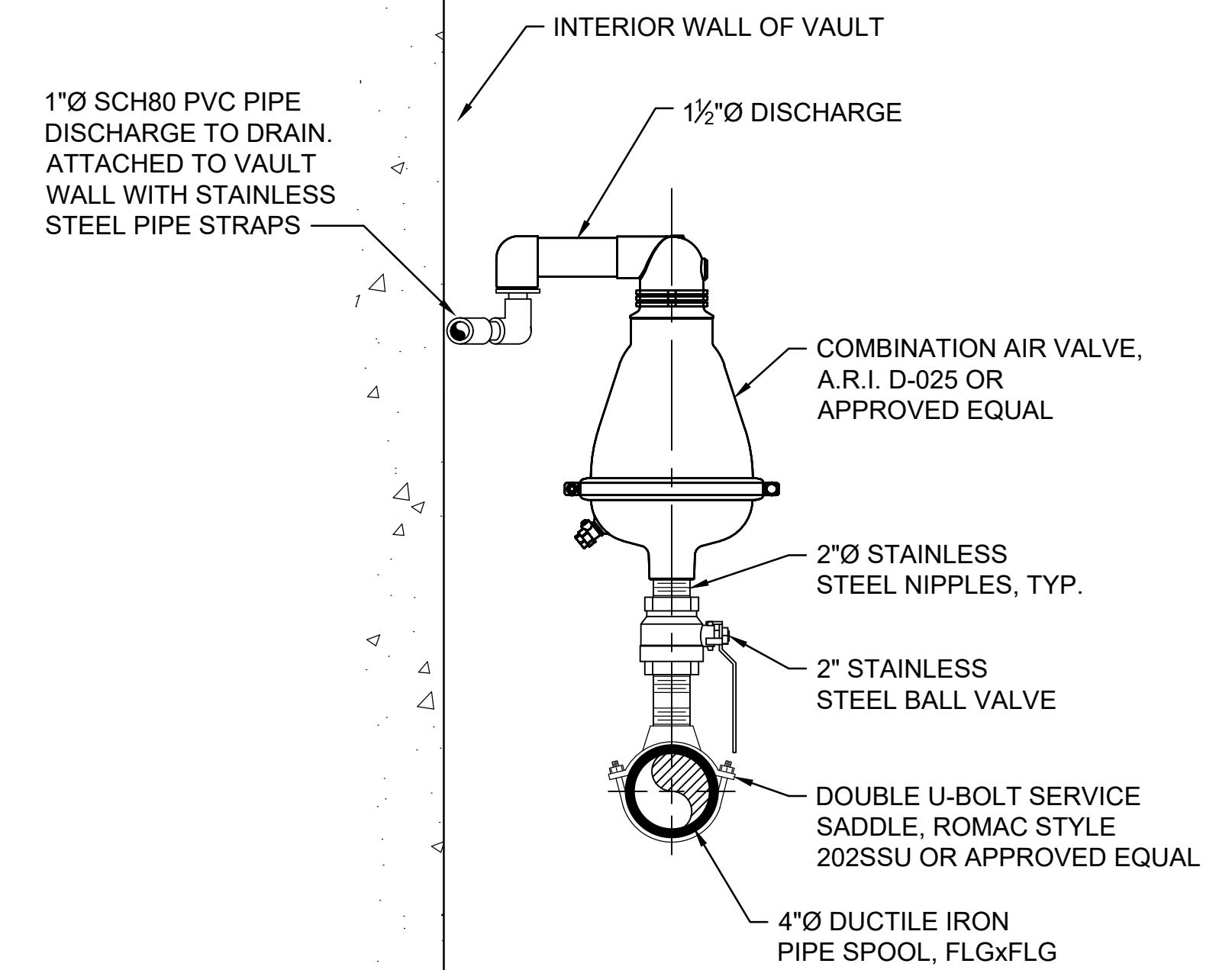
NTS



INSIDE DROP MANHOLE

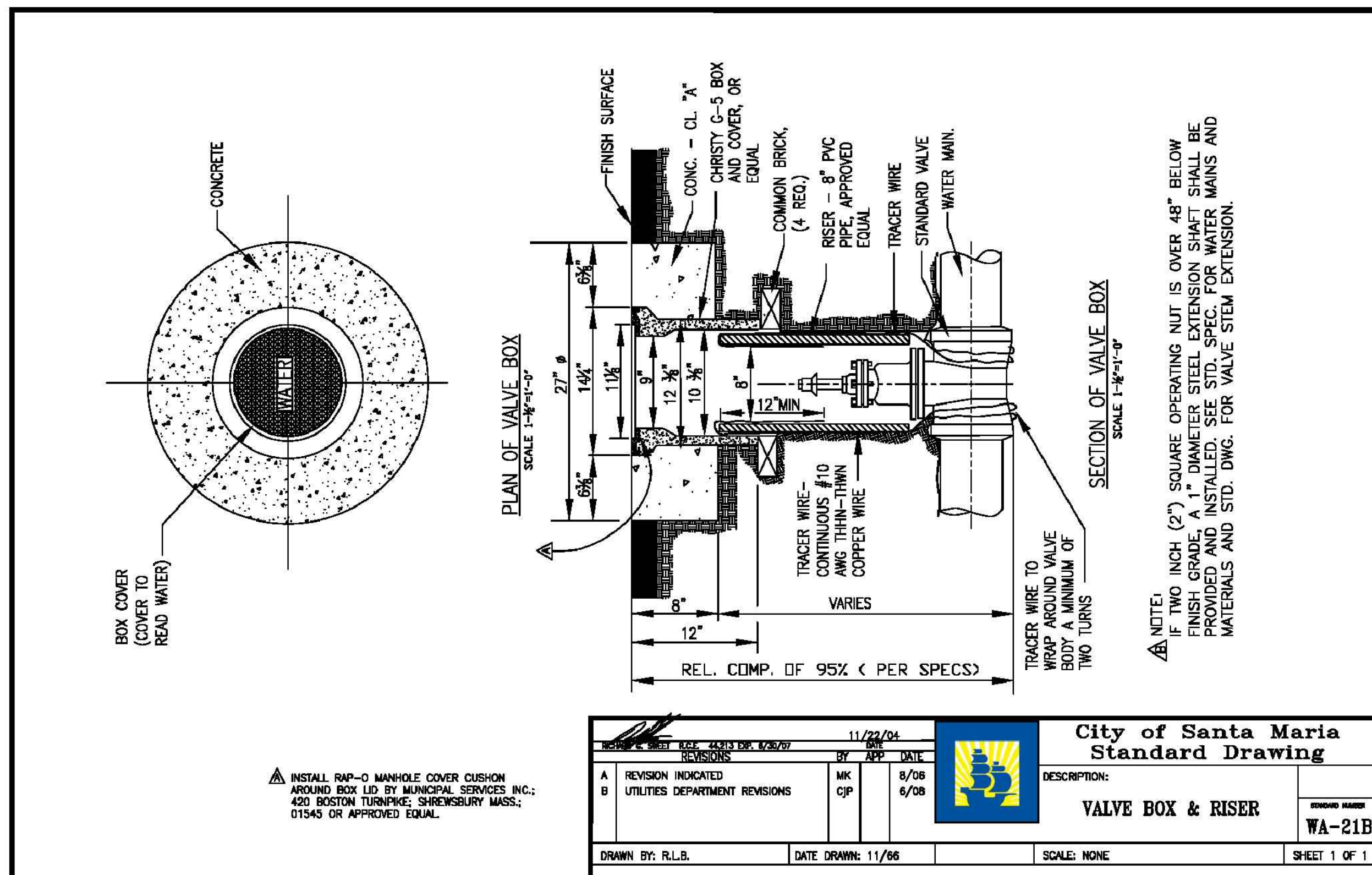
NTS

1"Ø SCH80 PVC PIPE DISCHARGE TO DRAIN. ATTACHED TO VAULT WALL WITH STAINLESS STEEL PIPE STRAPS



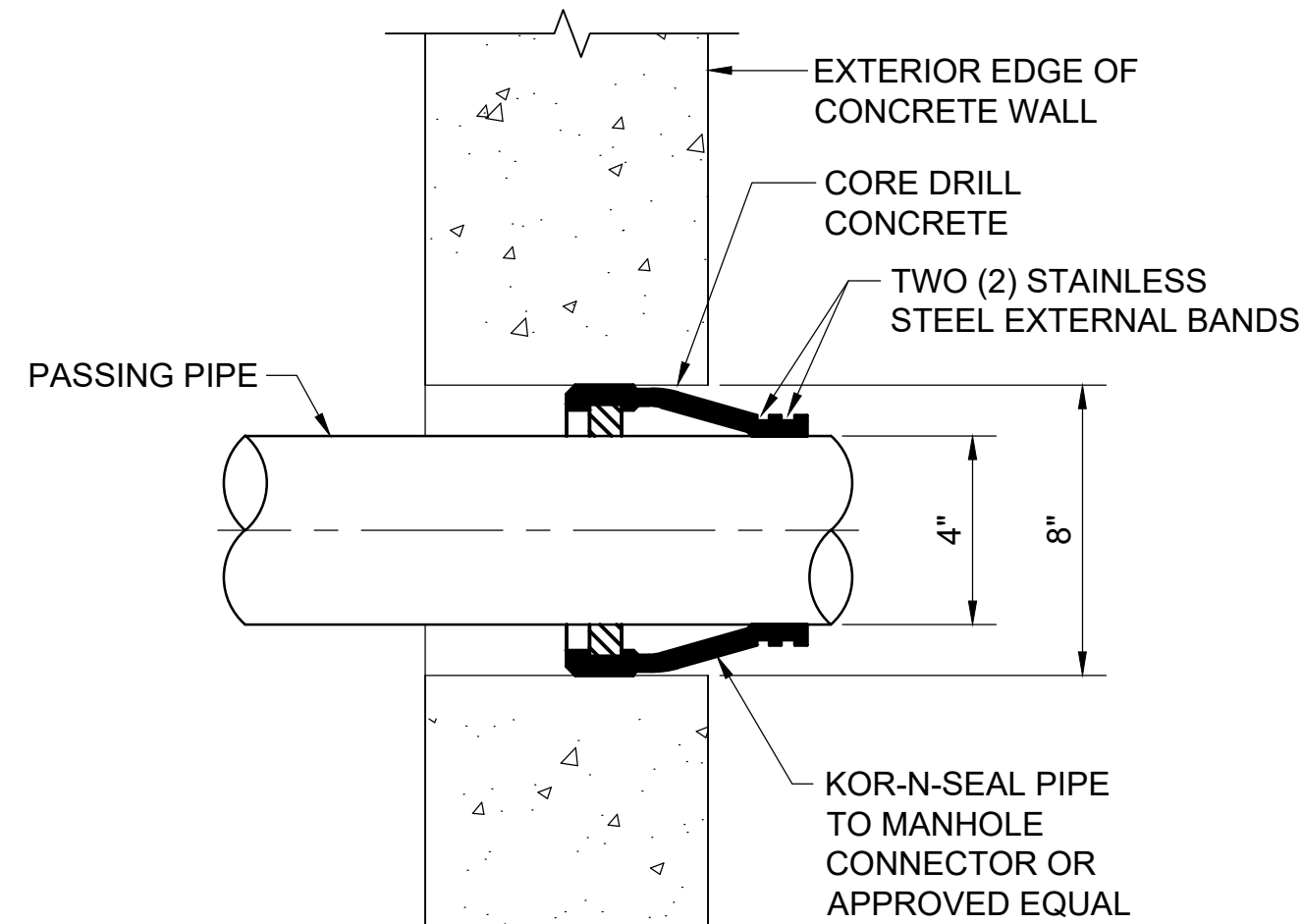
2" COMBINATION AIR VALVE

NTS



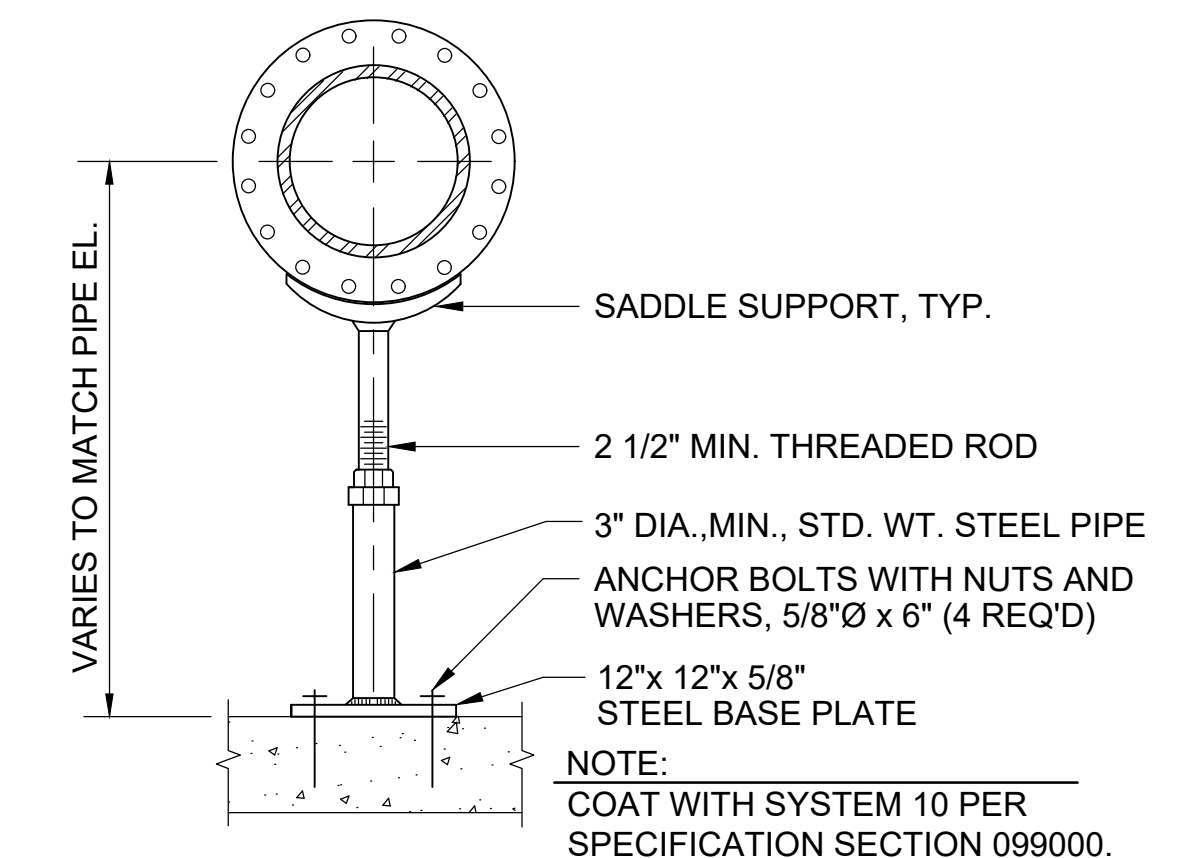
VALVE BOX & RISER DETAIL

NTS



WALL PENETRATION

NTS



PIPE SUPPORT

NTS

APPR	DATE
DESIGNER	DATE
PROJECT ENGINEER	DATE
REG. NUMBER	DATE
C63124	
JOSEPH J. REICHMUTH	

PROFESSIONAL ENGINEER
No. C63124
CIVIL
STATE OF CALIFORNIA

mkn
354 PACIFIC ST
SAN LUIS OBISPO, CA 93401
(805) 329-4773



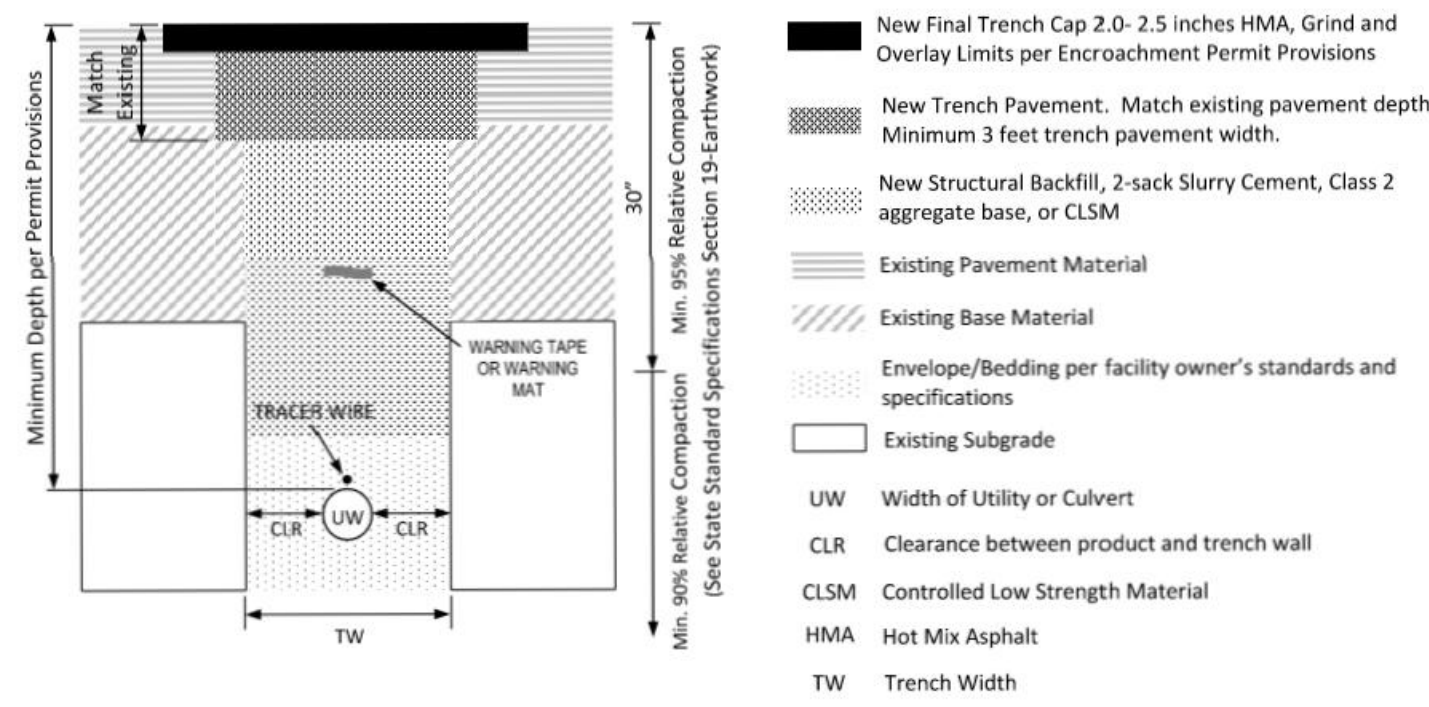
CITY OF GUADALUPE
PIONEER LIFT STATION AND FORCE MAIN PROJECT
CIVIL DETAILS - 2

DESIGNED: JJR
DETAILED: JPF
CHECKED:
APPROVED:
DATE: SEPTEMBER 2024

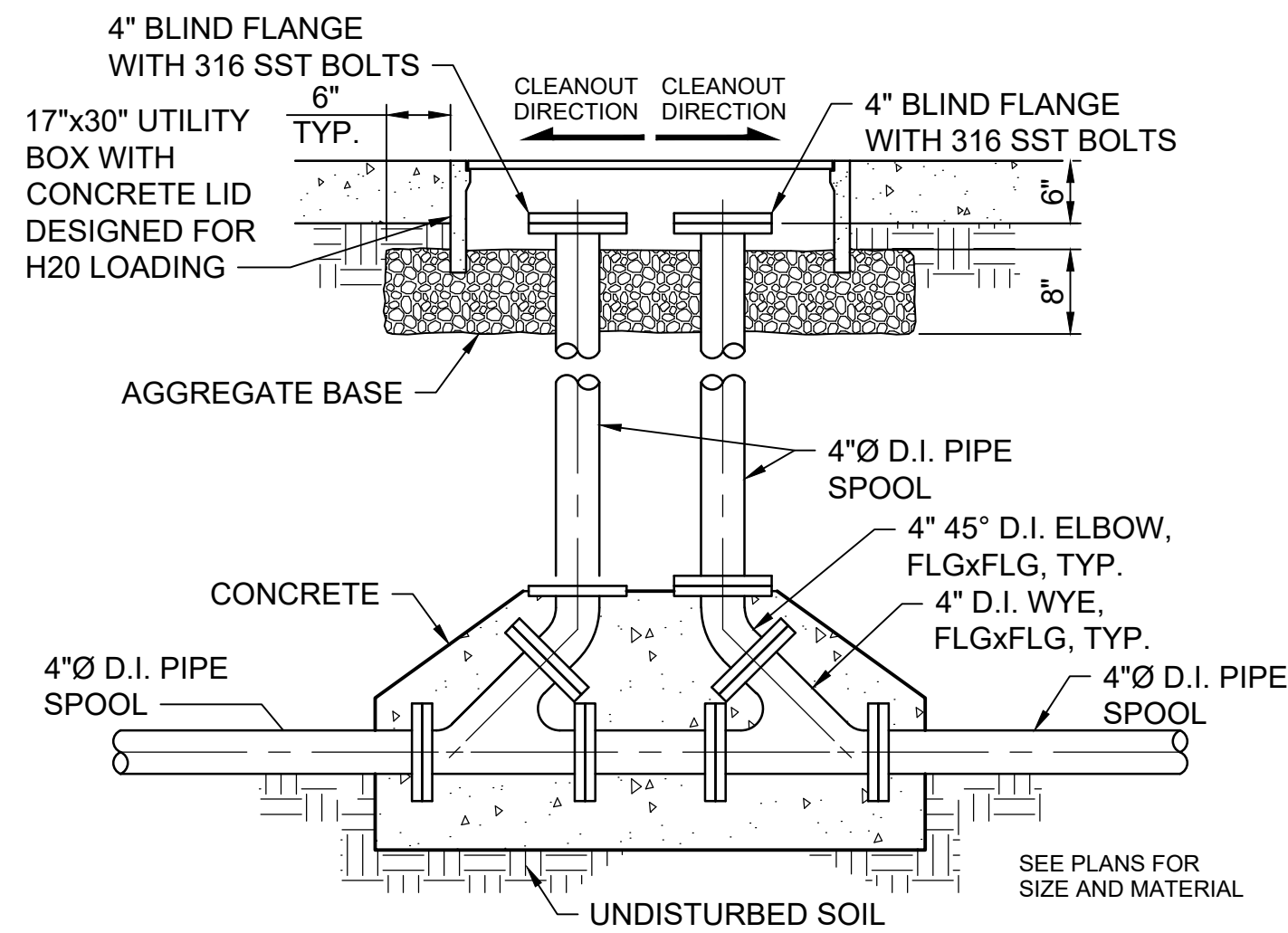
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
C-502
SHEET
9 OF 16

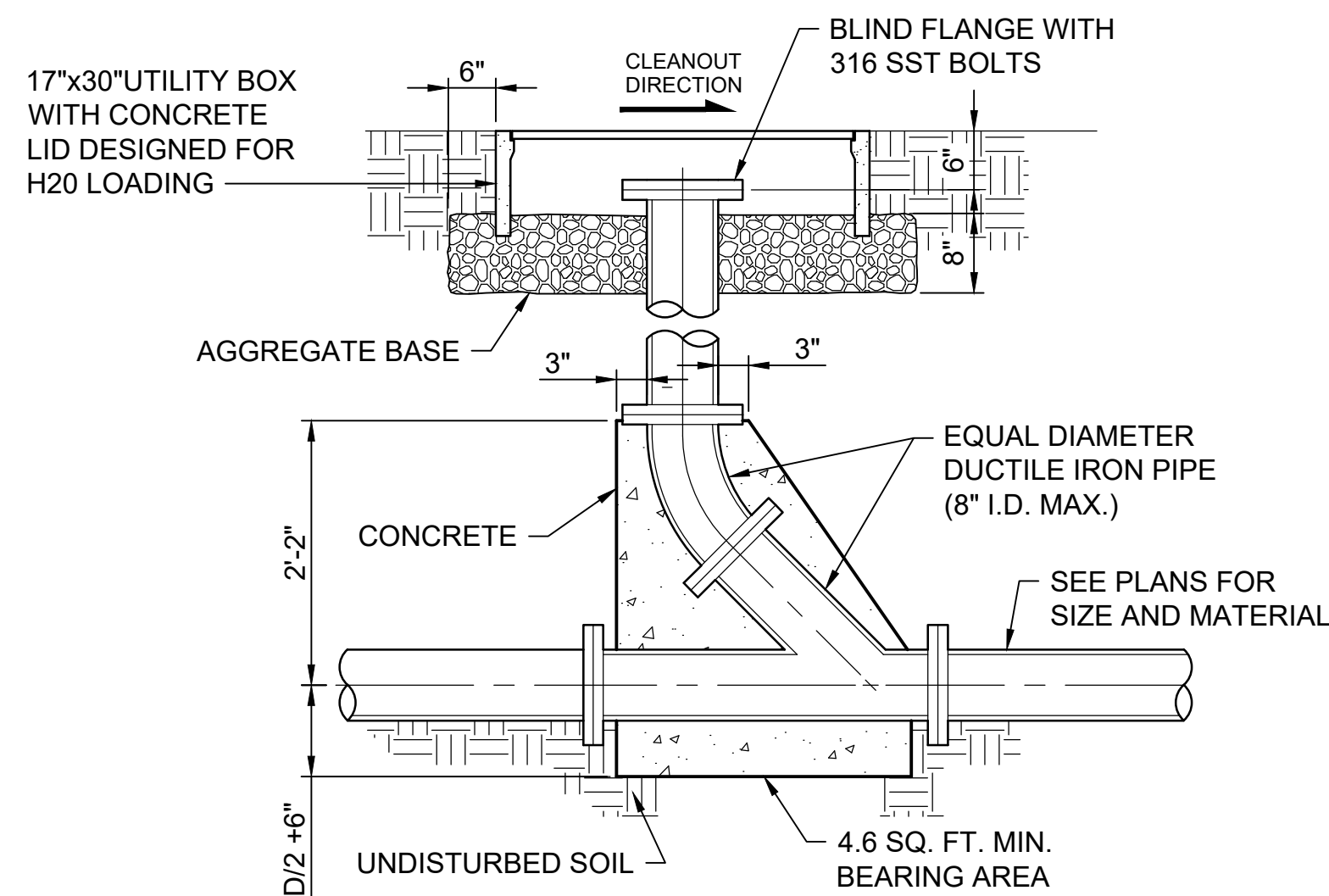
TYPICAL TRENCH DETAIL



1. Must include tracer wire or other continuous measure to provide positive subsurface detection for the life of the facility
2. Open trench installation of underground utility facilities must include warning tape or warning mats complying with the American Public Works Association (APWA) Uniform Color Code for identifying the type of underground utility. Where mechanical protection is installed, warning tape must be placed above the mechanical protection and below the roadbed subgrade as shown on the details. For all other backfills, warning tape or warning mat shall be placed half-way between the utility and the finished grade.
3. When the UW is $\geq 6"$ then the minimum CLR shall be $6"$
4. New structural backfill shall consist of either 2-sack slurry cement, Class 2 aggregate base, or CLSM. When TW is < 24 inches, Class 2 aggregate base is not recommended for backfill
5. Structure backfill shall conform to Section 19-3.02C and 3.03 of the Standard Specifications
6. Slurry cement backfill shall conform to Section 19-3.02E of the State Standard Specifications
7. Aggregate base and its compaction shall conform to Section 26 of the State Standard Specifications
8. CLSM if used must conform to Section 19-3.02G of the Standard Specifications. When CLSM is utilized the mix design and test results must be submitted to the State's representative. See Appendix H of the Encroachment Permits Manual for additional information.
9. Hot Mix Asphalt (HMA) is used to backfill Asphalt Concrete (AC) Section of the road, HMA must conform to Section 39-2 of the State Standard Specifications
10. AC used to replace pavement section shall match existing pavement depth, unless directed otherwise by the State's representative.
11. A tack coat of asphaltic emulsion conforming to Section 29-2.01C (3) (f) shall be provided and applied
12. When the trench is within 4 feet of curb and gutter, additional cold planning may be required at the discretion of the State's representative. Potholes or trenches separated / adjoined by 10 feet or less to be overlaid together at the discretion of the State's representative.
13. Pavement markings and/or striping removed or damaged during construction must be replaced in kind as directed by the State's representative.
14. If trench is in Portland Cement Concrete (PCC) roadway, remove the concrete to a depth of at least 3 feet below finished grade as per standard Specification 15-1.03B. Replace entire concrete slab from joint to joint as directed by State's representative.
15. Electrical systems installations that are part of State Highway System must be installed in compliance with Caltrans Standard Specifications, Section 87.
16. All methods of compaction shall be by mechanical means. Ponding, jetting, or flooding shall not be allowed. Compaction shall conform to Section 19-5 of the State Standard Specifications
17. Cold planning to accommodate the placement of steel plates is required for posted speed limits 45 MPH or greater. State representative may request cold planning for steel plates to meet field conditions even if the posted speed is less than 45 MPH



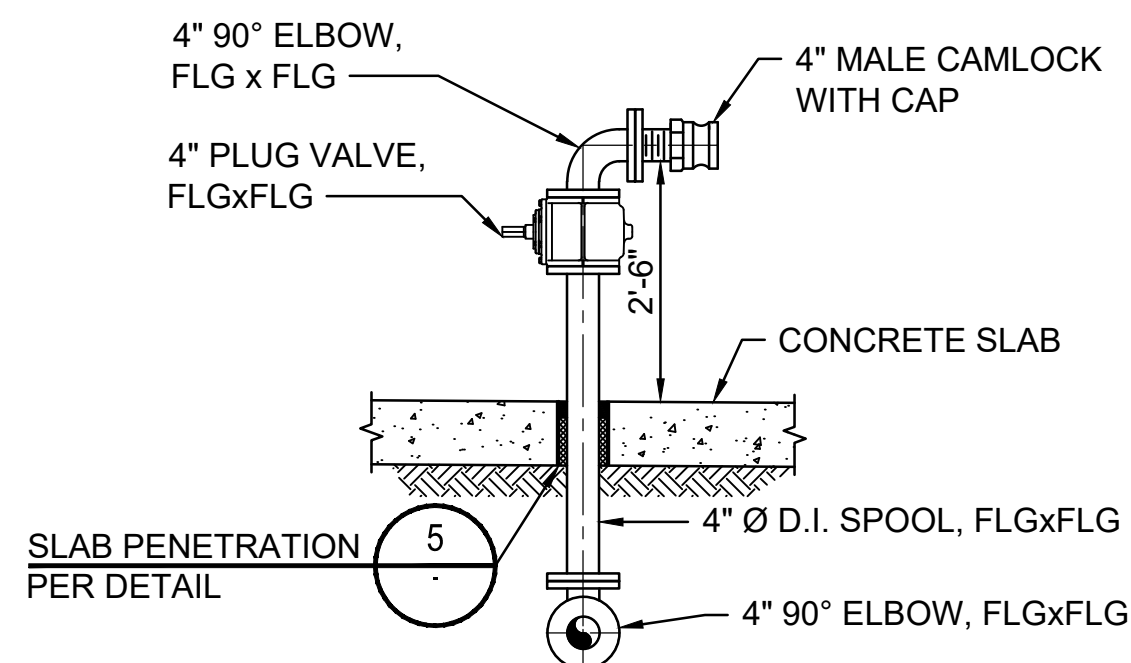
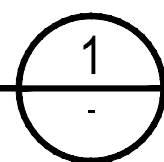
IN LINE 2-WAY PRESSURE CLEANOUT



IN LINE PRESSURE CLEANOUT

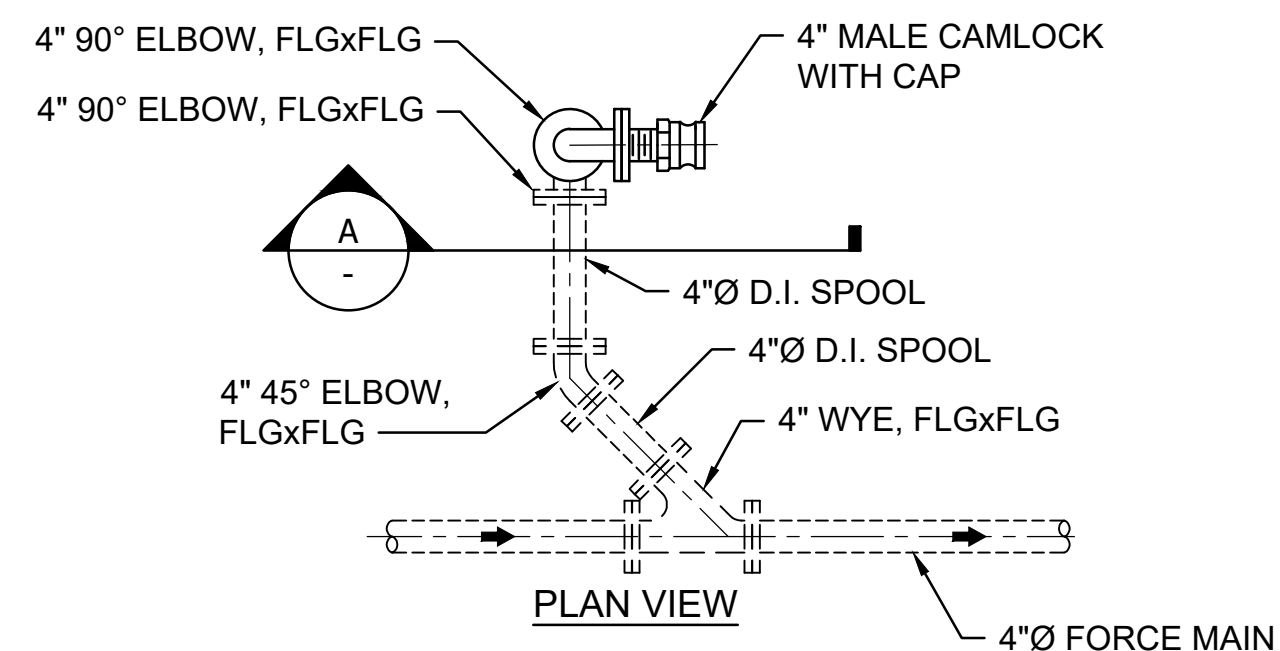
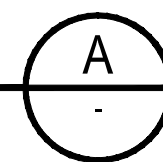
ENCROACHMENT PERMIT TRENCH DETAIL

NOT TO SCALE



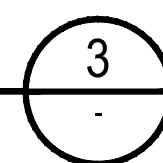
BYPASS CONNECTION SECTION

NOT TO SCALE



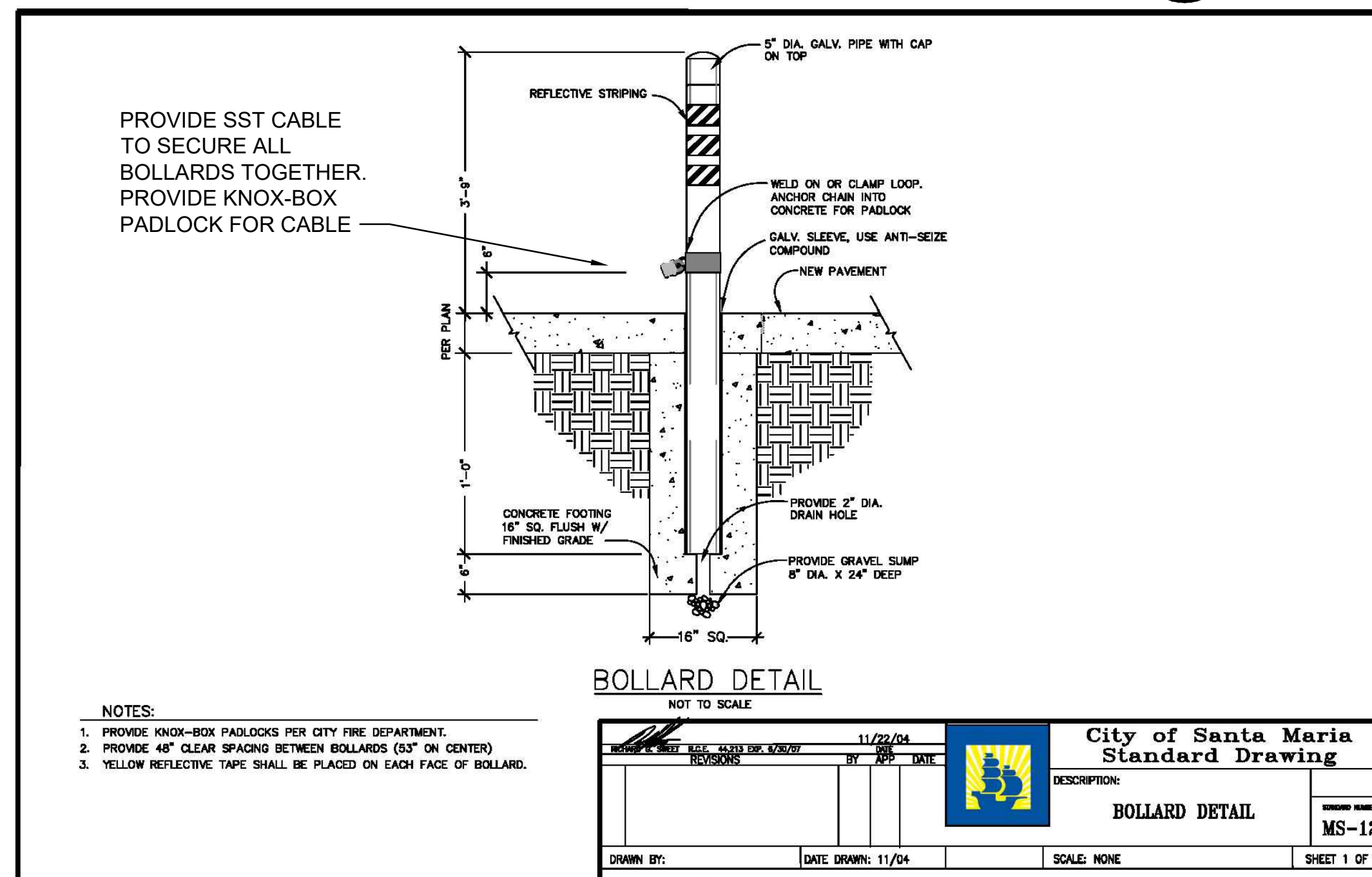
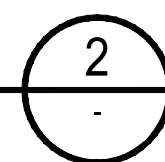
BYPASS CONNECTION

NOT TO SCALE



REMOVABLE BOLLARD DETAIL

NOT TO SCALE

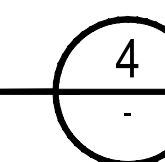


- NOTES:
1. PROVIDE KNOX-BOX PADLOCKS PER CITY FIRE DEPARTMENT.
 2. PROVIDE 48" CLEAR SPACING BETWEEN BOLLARDS (3" ON CENTER)
 3. YELLOW REFLECTIVE TAPE SHALL BE PLACED ON EACH FACE OF BOLLARD.

DESIGNED BY: JRF	DATE: 11/22/04		DESCRIPTION:
CHECKED BY: JPF	DATE: 11/04		BOLLARD DETAIL
APPROVED BY: JRF	DATE: 11/04	SCALE: NONE	SHEET 1 OF 1

REMOVABLE BOLLARD DETAIL

NOT TO SCALE



CALTRANS PERMIT:
0523-NUT-0121

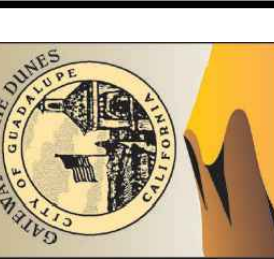


Know what's below.
 Call before you dig.

JUR	APPR	EXP. DATE
8/27/24		
PROJECT ENGINEER	DESCRIPTION	REG. NUMBER
JOSEPH J. REICHMUTH	CALTRANS ENCROACHMENT PERMIT	C63124



mkn
 354 PACIFIC ST
 SAN LUIS OBISPO, CA 93401
 (805) 329-4773

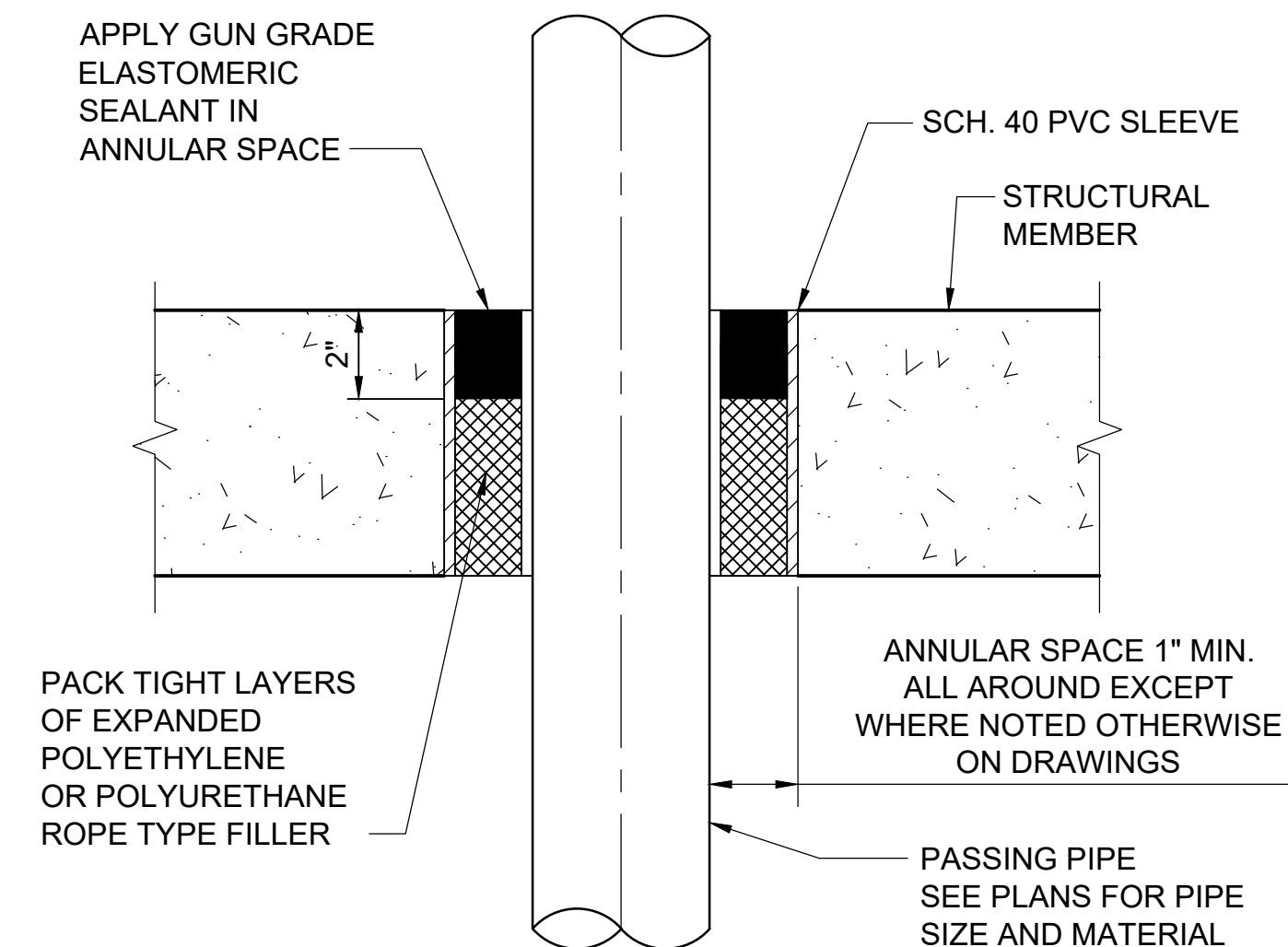
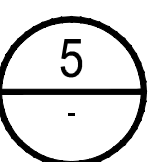


CITY OF GUADALUPE
 PIONEER LIFT STATION AND FORCE MAIN PROJECT
 CIVIL DETAILS - 3

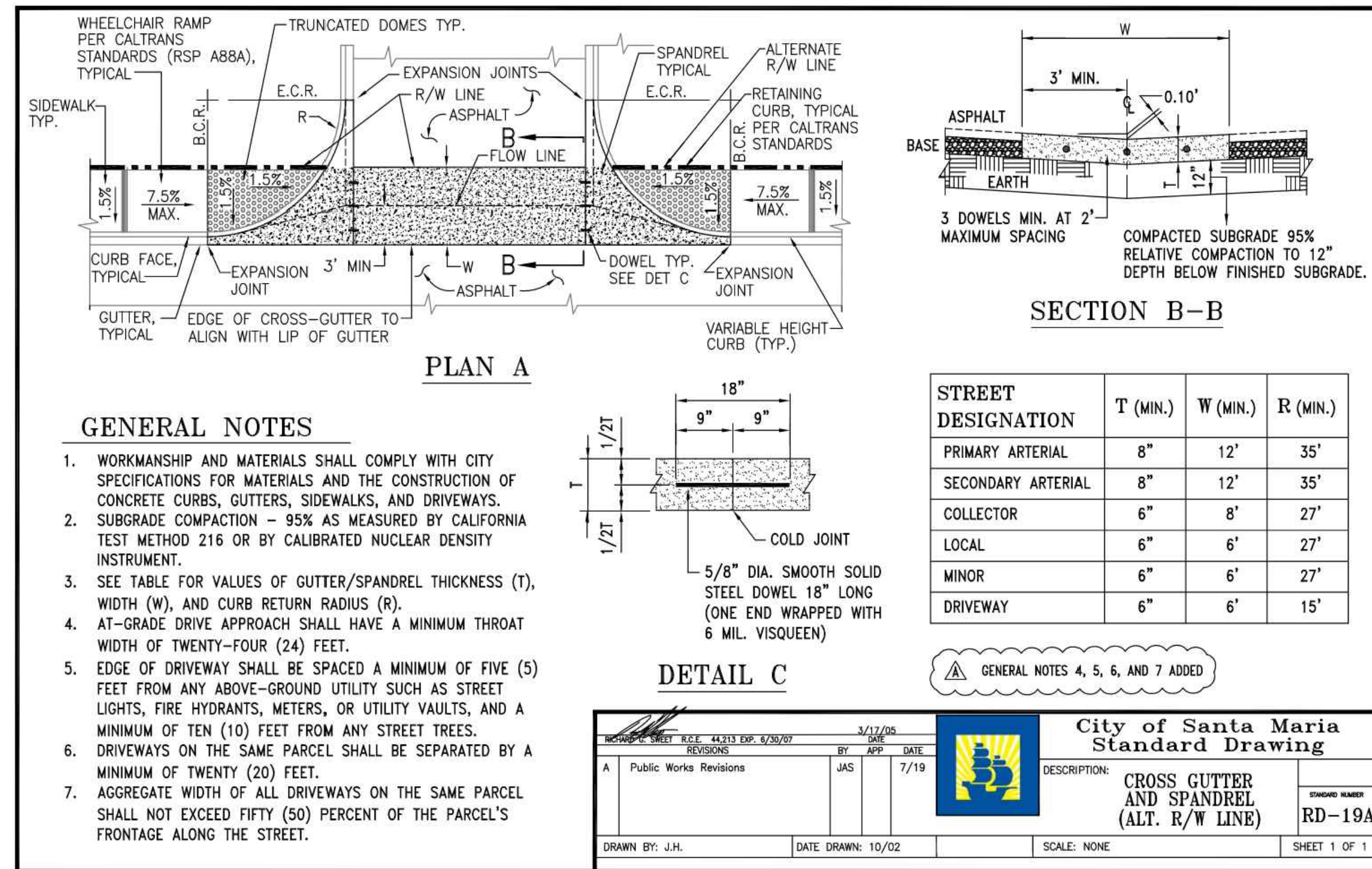
DESIGNED: JRF
DATE: SEPTEMBER 2024
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE
PROJECT NO.

SLAB PENETRATION

NOT TO SCALE



DWG: N:\Guadalupe\GUAD-2019-002_Lift Stations & Trunk Main\200 Engineering\301 CAD\Planes\Pioneer LS Force Main\C-504.dwg Layout Name: C-504 - Plotted by: Timothy Michale Date: 9/10/2024 - 3:11 PM
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CROSS GUTTER DETAIL

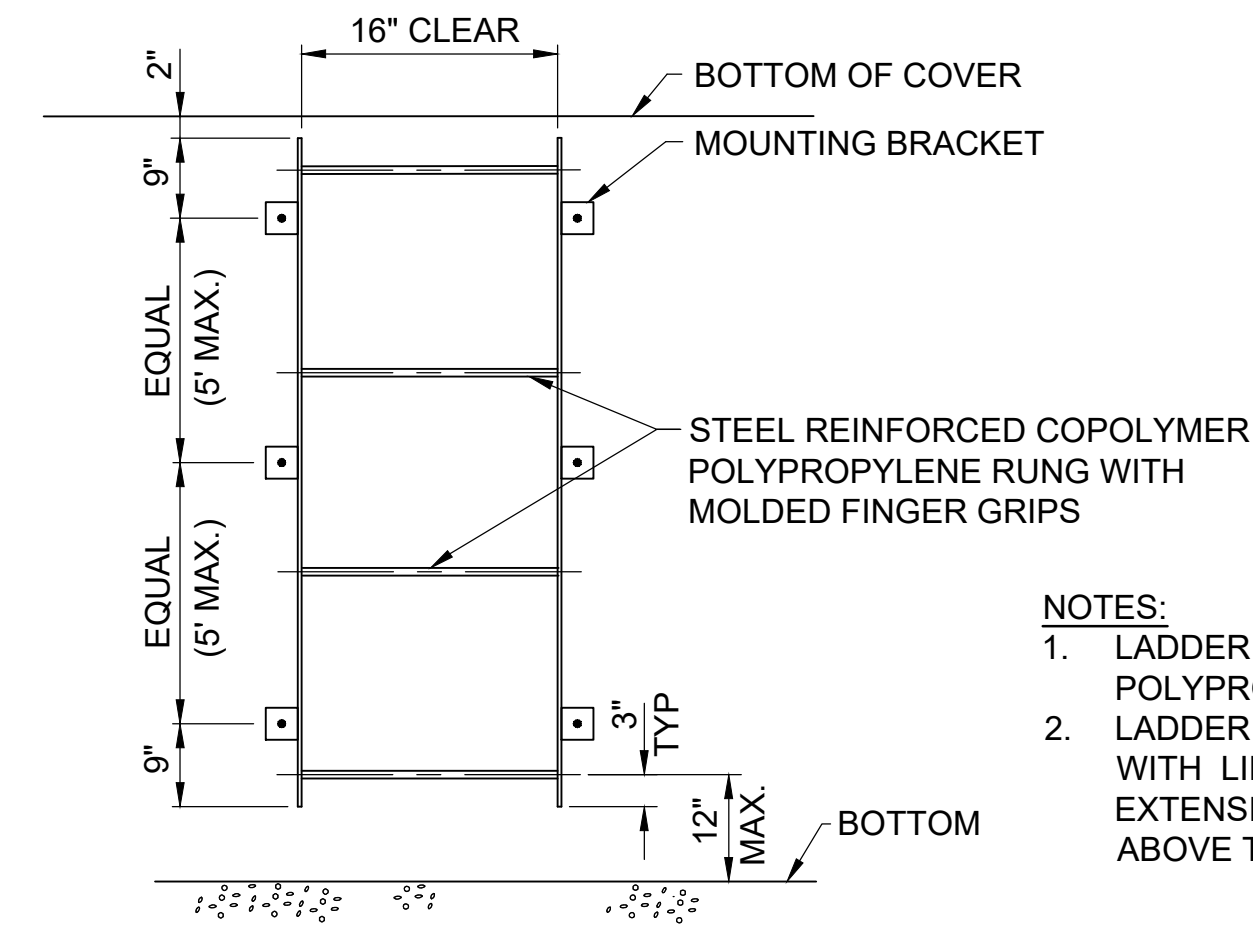
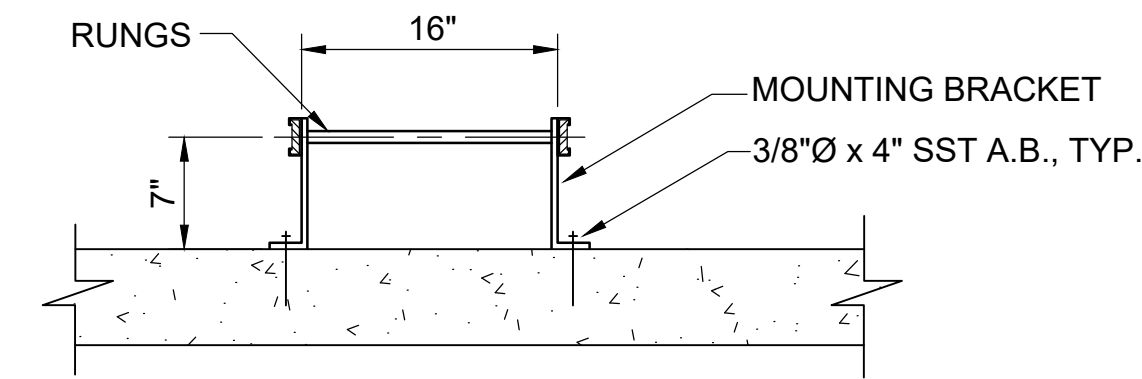
NOT TO SCALE

1

**CALTRANS PERMIT:
0523-NUT-0121**



Know what's below.
Call before you dig.



- NOTES:**
1. LADDER TO BE POLYPROPYLENE.
 2. LADDER TO BE EQUIPPED WITH LIFT-UP RAIL EXTENSION TO +42" ABOVE TOP OF COVER.

LADDER DETAIL

NOT TO SCALE

2

APPR	EXP DATE	DESCRIPTION	REG NUMBER
			C63124

PROJECT ENGINEER
JOSEPH J. REICHMUTH



mkn
 354 PACIFIC ST
 SAN LUIS OBISPO, CA 93401
 (805) 329-4773



CITY OF GUADALUPE
 PIONEER LIFT STATION AND FORCE MAIN PROJECT
 CIVIL DETAILS - 4

DESIGNED: JJR
 DETAILED: JPF
 CHECKED:
 APPROVED:
 DATE: SEPTEMBER 2024

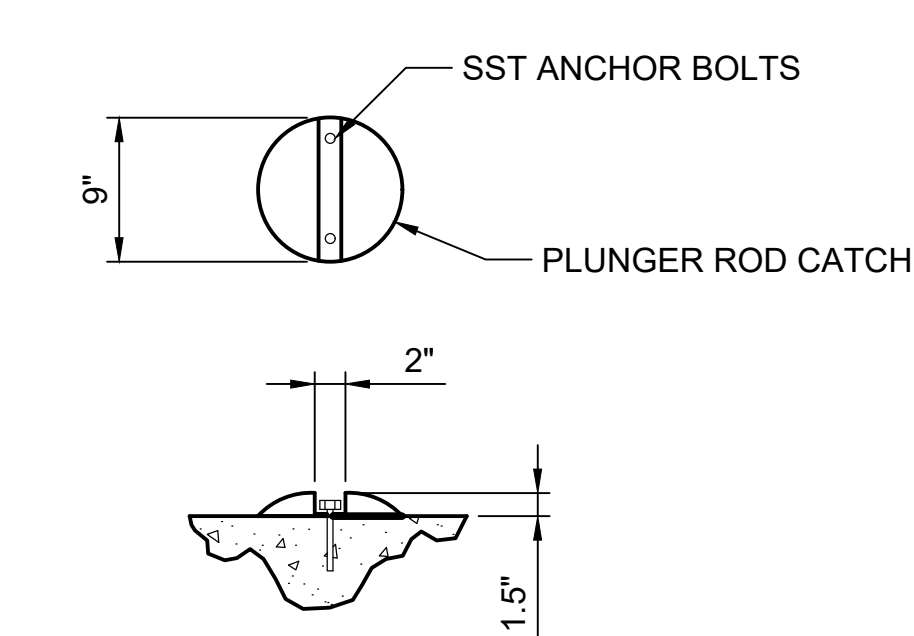
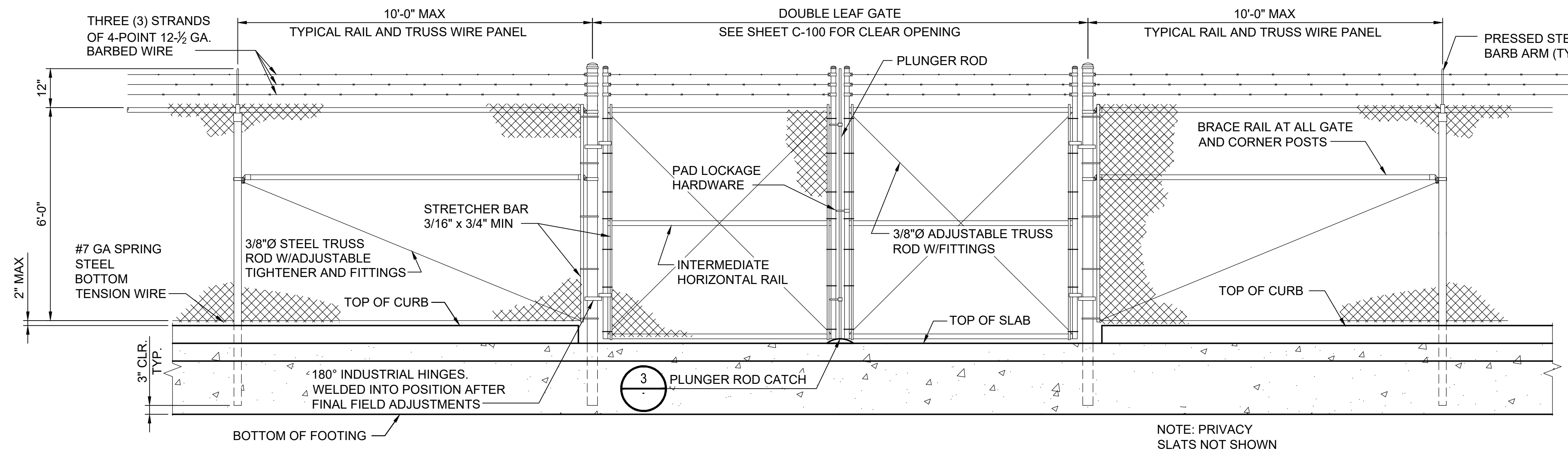
0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE
 PROJECT NO.

C-504
 SHEET
 11 OF 16

CALTRANS PERMIT:
0523-NUT-0121

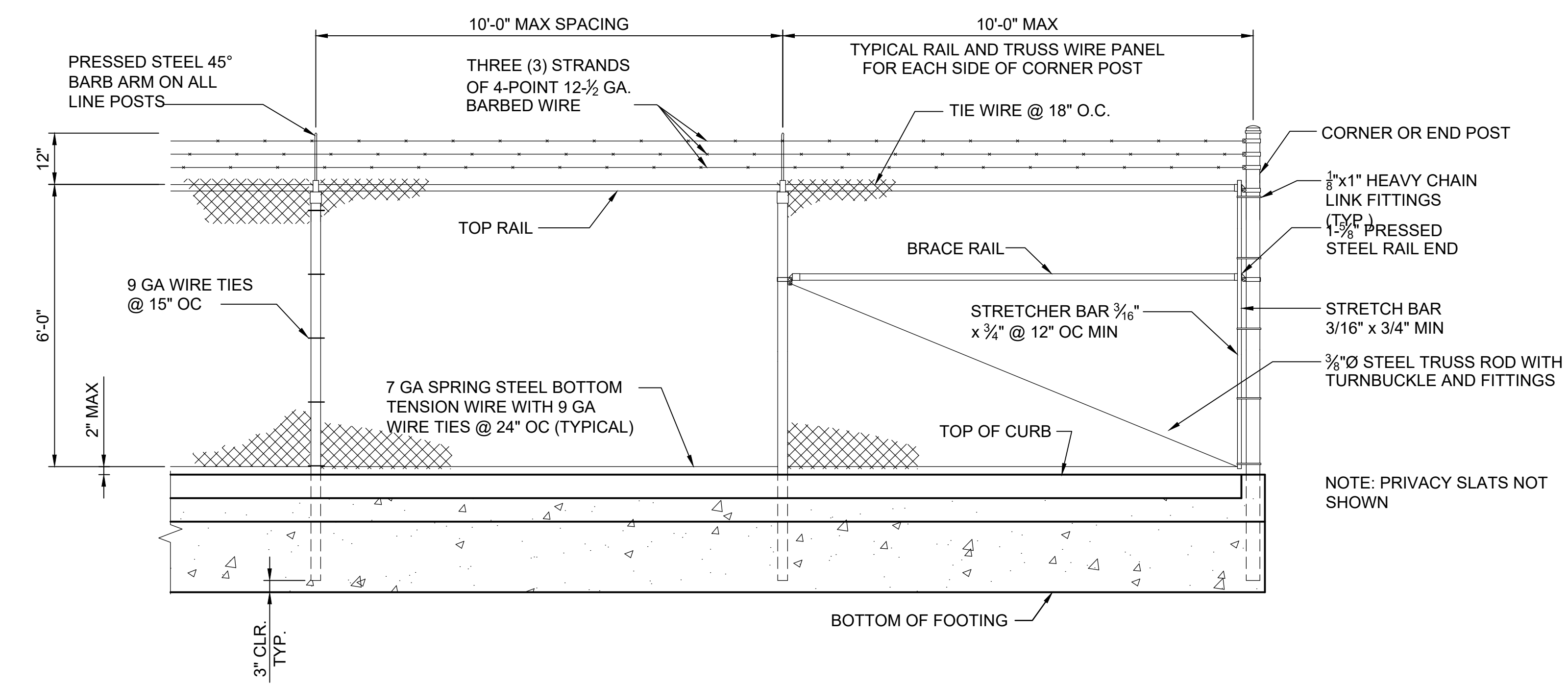


Know what's below.
Call before you dig.



PLUNGER ROD CATCH (3)
SCALE: NTS

DOUBLE LEAF GATE DETAIL (1)
NOT TO SCALE

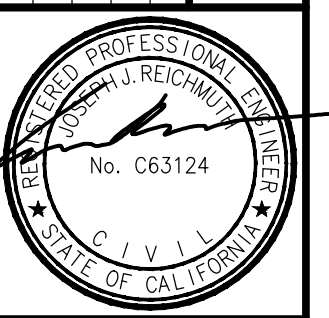


TYPICAL FENCE ELEVATION (2)
SCALE: NTS

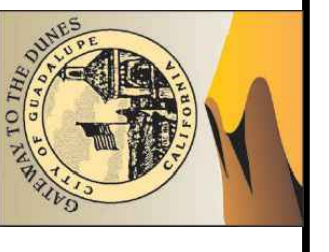
POST & MATERIALS TABLE

LINE POSTS	2-3/8" OD SCH 40 PIPE
CORNER & END POSTS	2-7/8" OD SCH 40 PIPE
TOP RAIL	1-5/8" OD SCH 40 PIPE
DRIVE GATE POSTS	4" OD SCH 40 PIPE
CHAIN LINK FABRIC	9 GA WIRE 2" DIAMOND WIRE, KNUCKLED TOP & BOTTOM, WITH PRIVACY SLATS (TAN COLOR)
GATE FRAMES	1-7/8" OD SCH 40 PIPE
TENSION WIRE	7 GA GALV COIL SPRING STEEL
TRUSS RODS	3/8" GALV STEEL
BRACE RAIL	1-5/8" OD SCH 40 PIPE

APPR	EXP DATE
DESCRIPTION	REG NUMBER
PROJECT ENGINEER	JOSEPH J. R. EICHMUTH
PROJECT NUMBER	C63124



mkn
354 PACIFIC ST
SAN LUIS OBISPO, CA 93401
(805) 329-4773



CITY OF GUADALUPE
PIONEER LIFT STATION AND FORCE MAIN PROJECT
CIVIL DETAILS - 5

DESIGNED: JJR
DETAILED: JPF
CHECKED:
APPROVED:
DATE: SEPTEMBER 2024

C-505
SHEET
12 OF 16

DWG: N:\Guadalupe\GUAD-2016-002_Lift Station & Force Main\000_Engineering\01_CAD\Planes\Pioneer LS Force Main\C-505.dwg Layout Name: C-505 - Plotted by: Timothy Michale Date: 9/10/2024 - 3:11 PM XREFS: REF-C630P.LS - IMAGES: City of Guadalupe Seal.dwg - City of Guadalupe Seal.dwg

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- ELECTRICAL EQUIPMENT CONNECTION. VERIFY ROUGH-IN REQUIREMENTS FOR EACH PIECE OF EQUIPMENT.
- DUPLEX RECEPTACLE MOUNTED IN LIGHTING STANDARD.
- GROUND WELL WITH GROUND ROD IN CURB BOX WITH TRAFFIC RATED COVER.
- MOTOR WITH IDENTIFICATION TAG AS INDICATED.
- LIGHTING STANDARD WITH ONE LUMINAIRE.
- LUMINAIRE DESIGNATION. LETTER INDICATES LUMINAIRE TYPE.
- 16**
E1
DETAIL REFERENCE. TOP NUMBER INDICATES DETAIL NUMBER. BOTTOM NUMBER INDICATES SHEET WHERE DETAIL IS LOCATED.

Electrical Abbreviations	
AFG	ABOVE FINISHED GRADE.
ATS	AUTOMATIC TRANSFER SWITCH.
AWGG	AMERICAN WIRE GAGE GROUND CONDUCTOR, SIZE AS INDICATED.
CO	CONDUIT ONLY WITH NYLON PULLROPE.
EX	EXISTING
HWA	HIGH WATER ALARM
OCPD	OVERCURRENT PROTECTIVE DEVICE
(N)	NEW
NTS	NOT TO SCALE
UON	UNLESS OTHERWISE NOTED
+XX"	INDICATES HEIGHT TO CENTER OF OUTLET BOX OR ENCLOSURE.

24 PLAN DIAGRAM SYMBOL LIST

PIPES, DUCTS, AND CONDUITS SHALL BE SUPPORTED AND BRACED PER OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION NO. OPM-0043-13 'THE MASON INDUSTRIES INC. SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES' OR OPM-0295-13 UNISTRUT SEISMIC BRACING SOLUTIONS.' A COPY OF THE OSHPD PRE-APPROVED DOCUMENTS SHALL BE AT THE JOB SITE AT ALL TIMES. INSTALLATION OF THIS EQUIPMENT MUST BE DONE IN STRICT ACCORDANCE WITH THE PRE-APPROVED DOCUMENTS.

ANCHORAGE AND SUPPORTS OF ALL EQUIPMENT TO BE INSTALLED AS A PART OF THIS PROJECT SHALL BE DETAILED, EXCEPT THOSE EXEMPT BY 2022 CBC SECTION 1613. EQUIPMENT SUPPORTS AND ANCHORAGE SHALL BE APPROVED BY THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD. THE OWNER'S FULL TIME INSPECTOR SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.

EXPANSION ANCHORS FOR USE IN CONCRETE IN DRY LOCATIONS SHALL BE HILTI CARBON STEEL KWIK BOLT TZ2 WEDGE ANCHORS. EXPANSION ANCHORS FOR USE IN CONCRETE IN DAMP AND WET LOCATIONS SHALL BE HILTI STAINLESS STEEL KWIK BOLT TZ2 WEDGE ANCHORS. EXPANSION ANCHORS FOR USE IN GROUT FILLED MASONRY IN DRY LOCATIONS SHALL BE HILTI KWIK BOLT TZ2 CARBON STEEL WEDGE ANCHORS. EXPANSION ANCHORS FOR USE IN GROUT FILLED MASONRY IN DAMP AND WET LOCATIONS SHALL BE HILTI KWIK BOLT TZ2 STAINLESS STEEL WEDGE ANCHORS. PROVIDE ANCHORS OF DIAMETER AND MINIMUM EMBEDMENT INDICATED. DRY LOCATIONS ARE DEFINED AS LOCATIONS NOT NORMALLY SUBJECT TO DAMPNESS OR WETNESS. DAMP LOCATIONS ARE DEFINED AS PARTIALLY PROTECTED LOCATIONS UNDER CANOPIES, MARQUEES, ROOFED PORCHES, AND LIKE LOCATIONS AND INTERIOR LOCATIONS SUBJECT TO MODERATE DEGREES OF MOISTURE, SUCH AS SOME BASEMENTS. WET LOCATIONS ARE DEFINED AS INSTALLATIONS UNDERGROUND OR IN CONCRETE SLABS OR MASONRY IN DIRECT CONTACT WITH THE EARTH. LOCATIONS SUBJECT TO SATURATION WITH WATER OR OTHER LIQUIDS, AND LOCATIONS EXPOSED TO WEATHER AND UNPROTECTED.

PROOF LOAD TEST FOR WEDGE TYPE ANCHOR BOLTS: WHERE ANCHOR BOLTS OF THE WEDGE EXPANSION TYPE ARE LOADED IN PULLOUT OR SHEAR, 50% OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT) SHALL BE PROOF TESTED AT LEAST 24 HOURS AFTER INSTALLATION IN THE PRESENCE OF PROJECT INSPECTOR TO THE TEST VALUES LISTED FOR THE PARTICULAR ANCHOR. IF ANY BOLTS FAIL THE PROOF LOAD TEST, TEST ALL ANCHOR BOLTS OF THE SAME TYPE, INSTALLED BY THE SAME TRADE, AND NOT PREVIOUSLY TESTED, UNTIL 20 CONSECUTIVE ANCHORS PASS, THEN RESUME INITIAL TEST FREQUENCY. ANCHORS SHALL BE TESTED WITH A CALIBRATED TORQUE WRENCH AND MUST ATTAIN SPECIFIED TORQUE VALUE WITHIN 1/2 TURN OF THE NUT.

TEST: TORQUE	
BOLT DIAMETER (INCHES):	3/8 1/2 5/8 3/4
KB-TZ2 CARBON CONCRETE TORQUE VALUE (FT-LBS), ESR-4266:	30 50 40 110
KB-TZ2 SS CONCRETE TORQUE VALUE (FT-LBS), ESR-4266:	30 40 60 110
KB-TZ2 CARBON GROUT FILLED MASONRY TORQUE VALUE (FT-LBS), ESR-4561:	15 25 30 50
KB-TZ2 SS GROUT FILLED MASONRY TORQUE VALUE (FT-LBS), ESR-4561:	15 25 35 50

WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR.

15 SEISMIC NOTES

- DESIGNATION FOR OCPD OR DISCONNECTION EQUIPMENT BY CIRCUIT NUMBER OR LETTER. M=MAIN, B=BRANCH CIRCUIT DEVICE, F=FEEDER, T=TAP.
- MOLDED CASE CIRCUIT BREAKER. AF=FRAME SIZE, AT=TRIP RATING, P=NUMBER OF POLES, A=AMP RATING.
- MOTOR WITH HORSEPOWER RATING AS INDICATED.
- REVENUE METER.
- UTILITY SOURCE.
- MANUAL TRANSFER SWITCH.
- COMBINATION MAGNETIC MOTOR STARTER AND OVERCURRENT PROTECTION DEVICE, WITH RATINGS AS INDICATED. MCP=MOTOR CIRCUIT PROTECTOR, CB=CIRCUIT BREAKER.

16 SINGLE LINE DIAGRAM SYMBOL LIST

- NORMALLY CLOSED CONTACT.
- NORMALLY OPEN CONTACT.
- SELECTOR SWITCH WITH OPEN AND CLOSED CONTACTS AS INDICATED.
- RELAY WITH CONTACTS AS INDICATED.
- FLOAT SWITCH, NORMALLY OPEN CLOSING ON RISING LEVEL.
- PUSH-TO-TEST INDICATING LIGHT. R=RED, G=GREEN.
- NORMALLY CLOSED PUSHBUTTON.
- VOLTAGE SUPPLIED FROM A SOURCE OUTSIDE THE STARTER.
- VOLTAGE SUPPLIED BY THE STARTER TO DRY CONTACTS LOCATED OUTSIDE THE STARTER.
- NORMALLY OPEN TEMPERATURE SENSOR.

11 CONTROL DIAGRAM SYMBOL LIST

- 1 PRIOR TO BIDDING, CONTRACTOR SHALL DETERMINE MOUNTING REQUIREMENTS FOR EACH LUMINAIRE AT EACH LOCATION.
- 2 SEE DESCRIPTION.
- 3 SEE SPECIFICATIONS AND DETAIL 12 ON SHEET E-201 FOR ADDITIONAL REQUIREMENTS.
- 4 CATALOG NUMBER AND DESCRIPTIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO SUBMISSION OF SHOP DRAWINGS. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER

TYPE	MANUFACTURER	CATALOG NUMBER ① ② ③ ④	DESCRIPTION ① ③ ④	LAMP		INPUT WATTS (VA)	MOUNTING
				TYPE	QUAN/ WATTS		
A	COOPER LIGHTING MCGRAW-EDISON OR EQUAL	LUMINAIRE: TT-D3-LED-U-5WQ-PM-NW-SG-BPC	ONE 120 VOLT, FULL-CUTOFF, AREA LIGHTING 4000K LED LUMINAIRE WITH ONE PIECE DIE-CAST ALUMINUM HOUSING, SOLITE GLASS LENS, MOUNTING ARM, SPECULAR VACUUM-METALLIZED POLYCARBONATE REFLECTOR, TYPE 5 WIDE DISTRIBUTION, NOMINAL 6500 LUMENS, 70 CRI, WHITE POWDER COAT PAINT FINISH, MOUNTING ARM, INTEGRAL BUTTON PHOTOCELL, AND NRTL LISTED AS SUITABLE FOR WET LOCATION APPLICATIONS.	LED	1/47	47 (47)	POLE
	AV POLES & LIGHTING OR EQUAL	POLE: AVPL-RSA-084-125-1@90-GFI-WHT-VIBRATION DAMPENERS	NOMINAL 4" SQUARE STRAIGHT SMOOTH ALUMINUM POLE WITH LUMINAIRE/POLE COMBINATION HAVING A STEADY 80MPH WIND LOADING RATING. PROVIDE WITH .125" WALL THICKNESS. POLE AND BASE SHALL HAVE AN ELECTROSTATICALLY APPLIED POLYESTER POWER COAT WHITE FINISH TO MATCH LUMINAIRE. POLE LENGTH SHALL BE 8 FEET. PROVIDE WITH (4) HOT-DIP GALVANIZED ANCHOR BOLTS AND DOUBLE HEX NUTS AND WASHERS. PROVIDE SINGLE-PIECE CAST ALUMINUM BASE COVER AND SINGLE POLE MOUNTED RECEPTACLE WITH IN-USE COVER.				

12 LUMINAIRE SCHEDULE

IRJ ENGINEERS, INC.
MECHANICAL & ELECTRICAL ENGINEERS
4517 MARKET STREET, SUITE 19 VENTURA, CALIFORNIA 93003
(805) 642-2555

REGISTERED PROFESSIONAL ENGINEER
MACK V. IVERS
No. 12524
9/25
ELECTRICAL
STATE OF CALIFORNIA

DATE	PROJECT ENGINEER
REV	DESCRIPTION
APP	REG NUMBER

mka (805) 329-4773
354 PACIFIC ST
SAN LUIS OBISPO, CA 93401

SEAL OF THE DIVISION OF BUSINESS REGULATION
STATE OF CALIFORNIA

CITY OF GUADALUPE
PIONEER LIFT STATION AND FORCE MAIN PROJECT

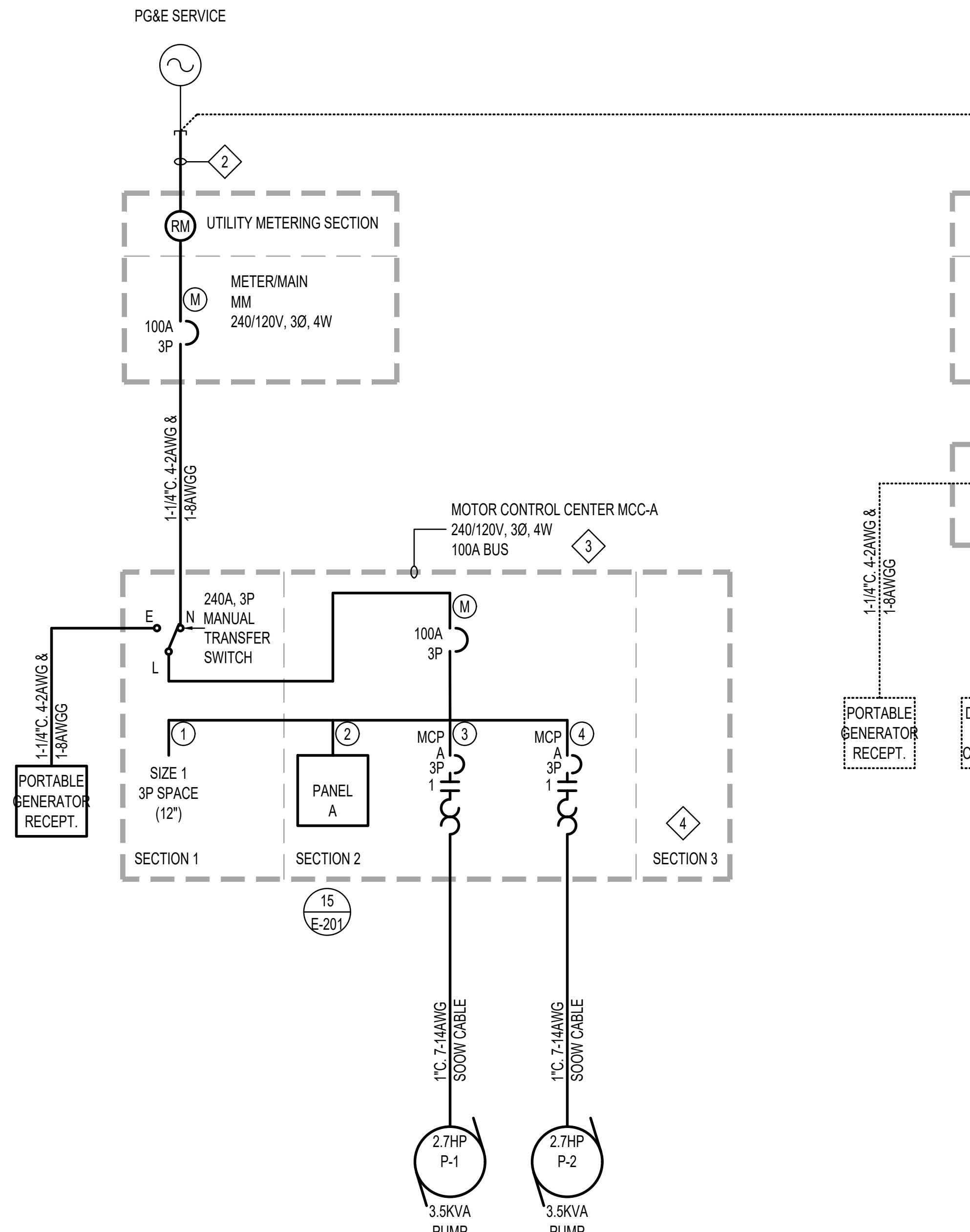
SYMBOL LISTS, SEISMIC NOTES,
LUMINAIRE SCHEDULE

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: SEPTEMBER 2024

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.

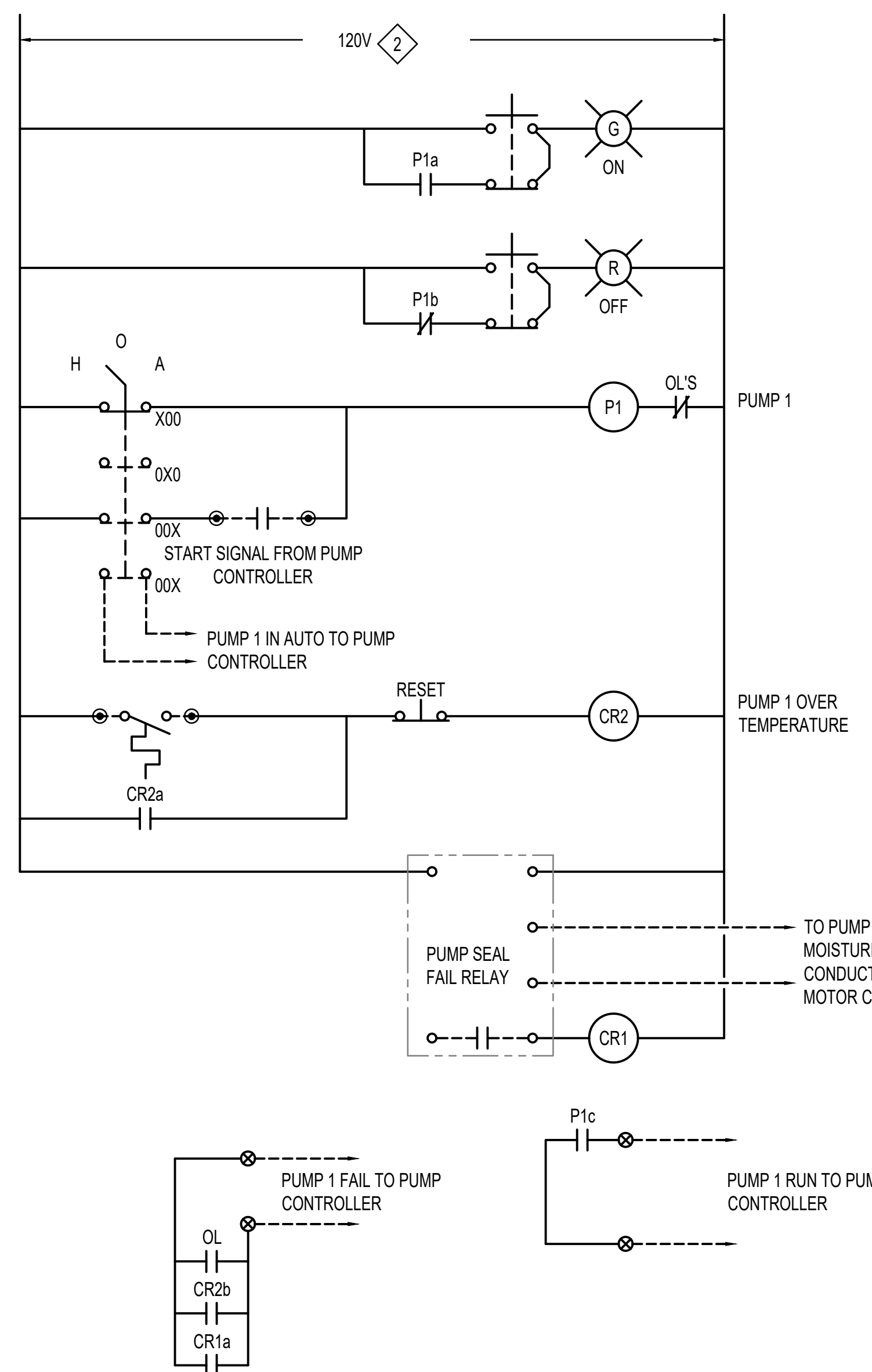
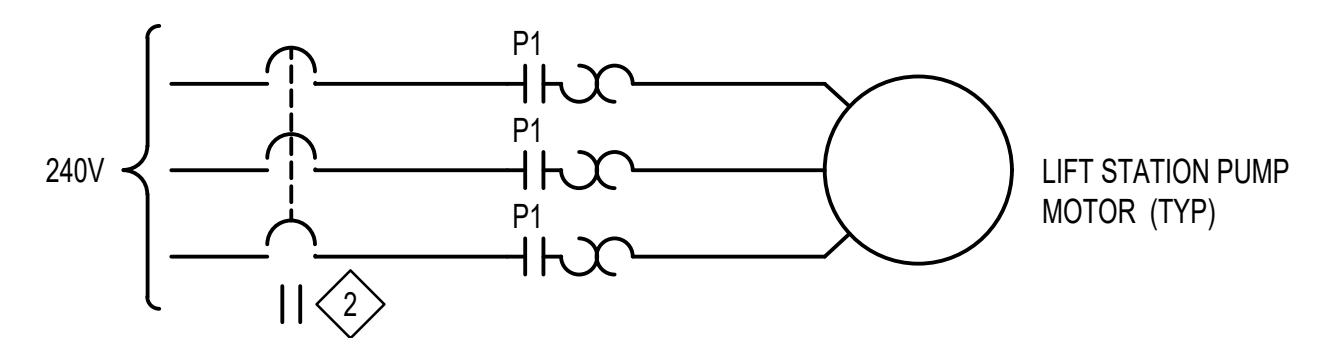
E-001
SHEET
12 OF 15



DETAIL NOTES

- 1 ALL ELECTRICAL EQUIPMENT SHOWN IS NEW UON.
- 2 2\"/>

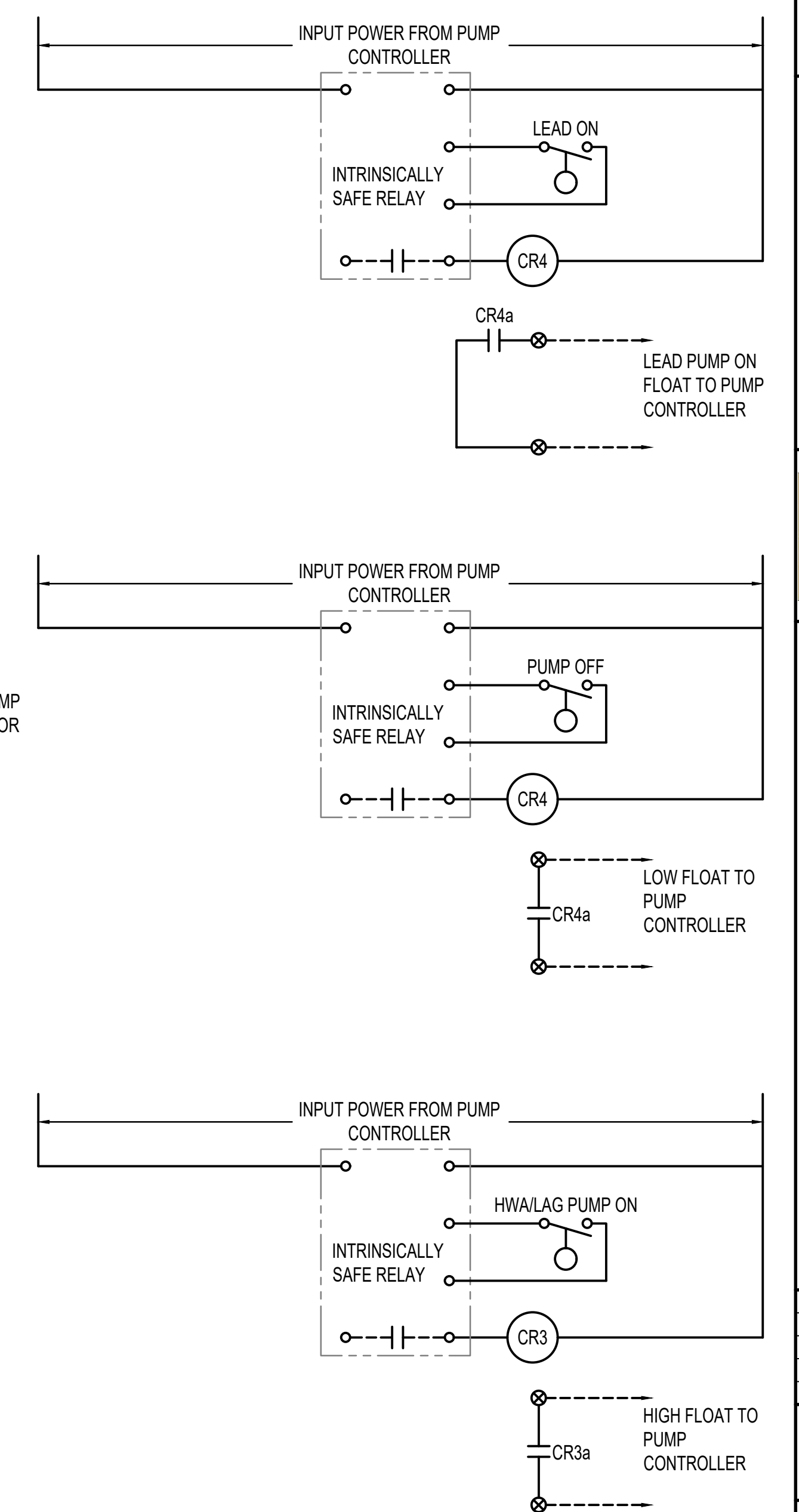
24 PIONEER LIFT STATION SINGLE LINE DIAGRAM



DETAIL NOTES

- 1 THE CONTROL FOR PUMP 2 SHALL BE THE SAME AS THAT SHOWN FOR PUMP 1.
- 2 OBTAIN THE 120V CONTROL CIRCUIT FROM PANEL A. INTERLOCK WITH THE RESPECTIVE MOTOR STARTER MOTOR CIRCUIT PROTECTOR.

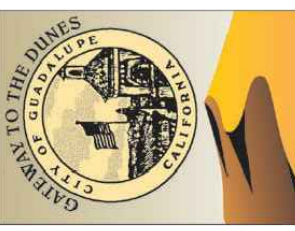
12 PUMP CONTROL DIAGRAM



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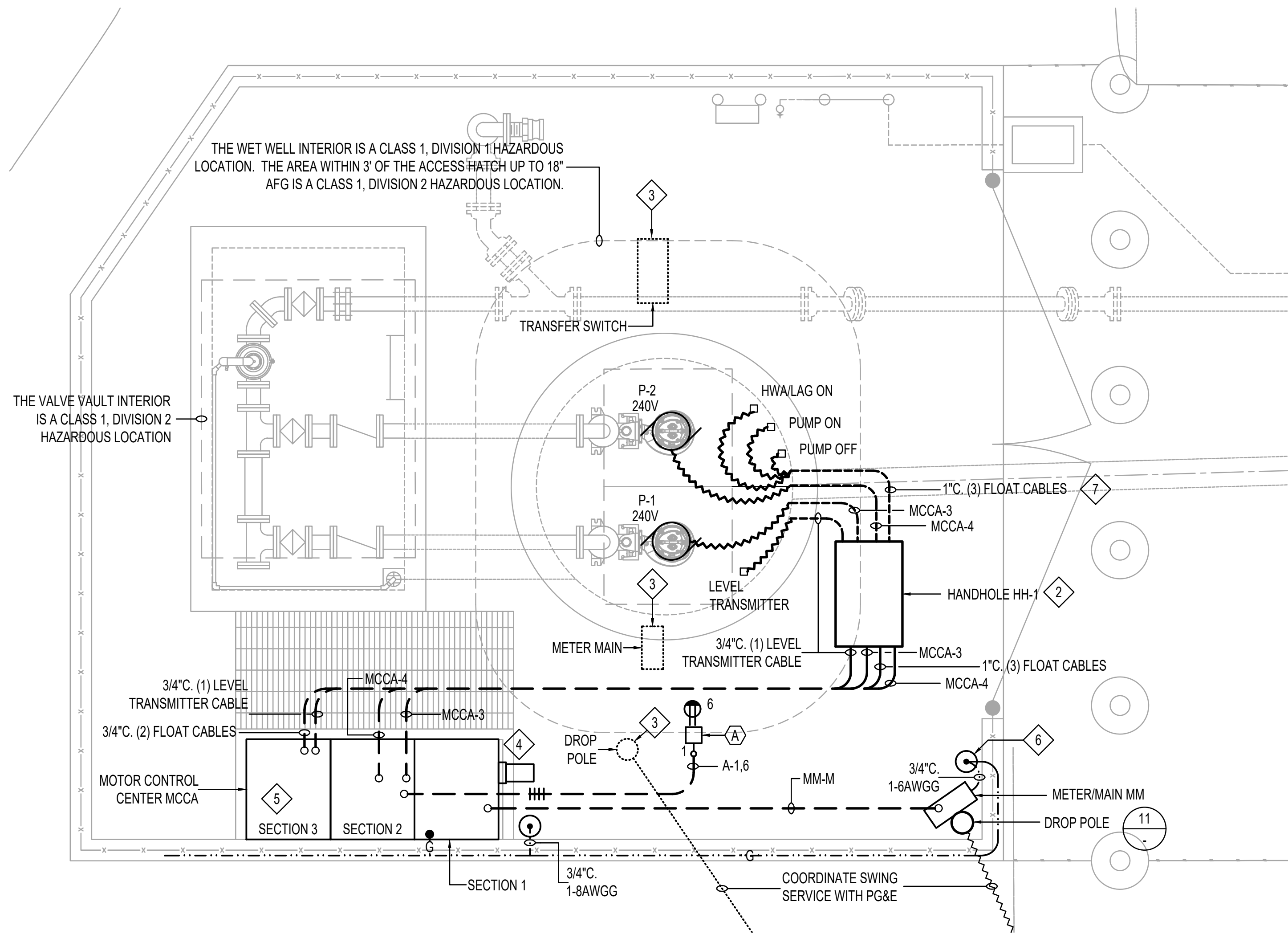
APPR	DESCRIPTION	REG NUMBER
DATE	REV	PROJECT ENGINEER

354 PACIFIC ST
SAN LUIS OBISPO, CA 93401
(805) 329-4773



CITY OF GUADALUPE
PIONEER LIFT STATION AND FORCE MAIN PROJECT
ONE LINE DIAGRAM, PUMP CONTROL DIAGRAM

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: SEPTEMBER 2024
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE
PROJECT NO.

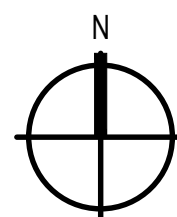


DETAIL NOTES

- 1 ALL WORK SHOWN IS NEW UON.
- 2 PROVIDE 13"W X 24"L, INSIDE DIMENSIONS, CONCRETE HANDHOLE. REFER TO DETAIL 16 ON SHEET E-201.
- 3 DEMOLISH THE EXISTING DROP POLE, METER/MAIN ENCLOSURE, AND TRANSFER SWITCH INCLUDING ASSOCIATED CONDUITS AND CONDUCTORS.
- 4 PROVIDE 100A PORTABLE GENERATOR RECEPTACLE ASSEMBLY AND 3P, 4W GENERATOR RECEPTACLE WITH SCREW CAP, EATON CROUSE-HINDS AREA 10425, OR EQUAL.
- 5 SECTION 3 SHALL BE AN UNBUSSED EMPTY SECTION FOR INSTALLATION OF PUMP CONTROL COMPONENTS. COORDINATE DELIVERY OF EMPTY SECTION TO SELECTED PUMP PANEL MANUFACTURER. IN ADDITION, PROVIDE RECEPTACLE WITHIN SECTION 3 FOR POWER TO AUTODIALER. COORDINATE TELEPHONE SERVICE WITH UTILITY COMPANY. IF A STAND ALONE CONTROL PANEL IS PROVIDED, SECTION 3 SHALL NOT BE REQUIRED, AND THE NEW CONTROL PANEL SHALL BE LOCATED WITHIN A SIMILAR SPACE TO SECTION 3. ALL CONNECTIONS SHOWN FOR SECTION 3 SHALL BE MADE AT THE CONTROL PANEL ENCLOSURE IF THAT ALTERNATIVE IS SELECTED. REFER TO CONTROL PANEL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 6 CONNECT GROUNDING ELECTRODE CONDUCTOR TO GROUND ROD WITH A LISTED BRONZE GROUNDING CLAMP.
- 7 CABLE PROVIDED BY FLOAT/LEVEL TRANSMITTER MANUFACTURER. COORDINATE REQUIRED LENGTH FOR THE INSTALLATION.

24 LIFT STATION NEW ELECTRICAL PLAN

SCALE 1/2" = 1' - 0"

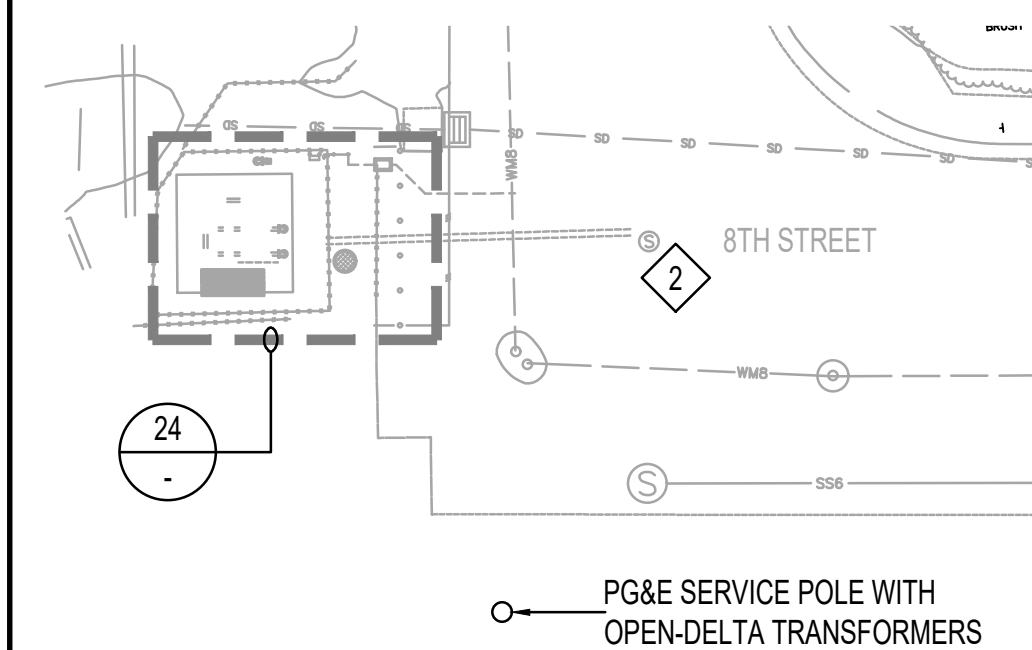
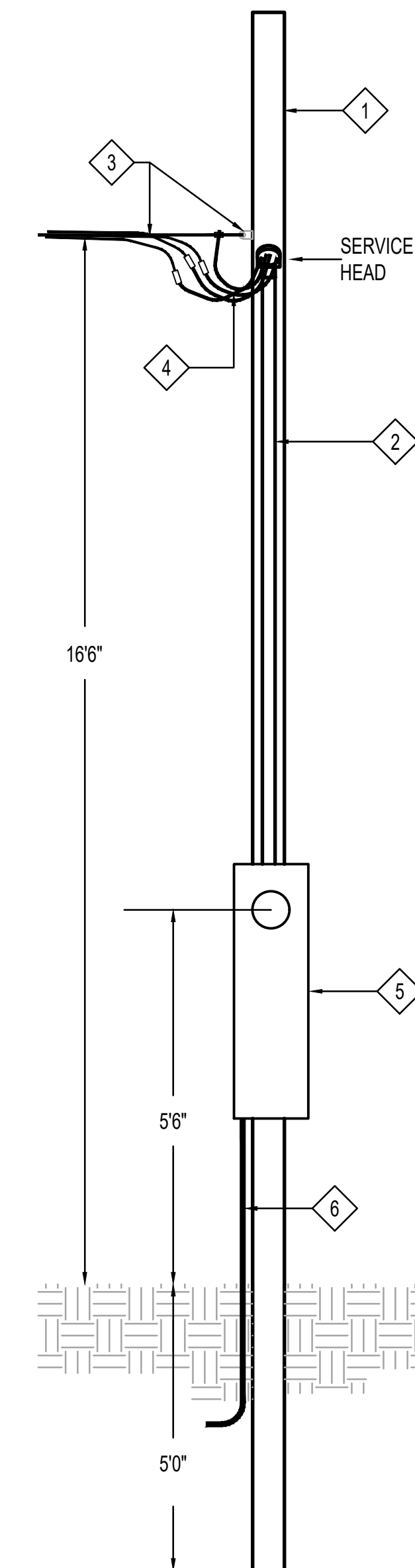


DETAIL NOTES

- 1 PROVIDE 30' POLE, MINIMUM CLASS 6 TREATED WITH A CHEMICAL PRESERVATIVE. SET THE POLES IN NATURAL SOILS. BACKFILL SHALL BE TAMPED TO A MINIMUM COMPACTION OF 90% WITHIN A TWO FOOT RADIUS OF THE POLES.
- 2 SCH. 40 PVC SERVICE ENTRANCE CONDUIT AND CONDUCTORS. REFER TO DETAIL 24 ON DWG E-002 FOR SIZE. FASTEN CONDUIT TO POLE AT MAXIMUM 3' SPACING.
- 3 SERVICE DROP AND WIRE HOLDER BY PG&E. COORDINATE WITH PG&E TO SWING EXISTING SERVICE DROP CONDUCTORS TO NEW POLE.
- 4 PROVIDE MIN. 18" FREE LENGTH SERVICE CONDUCTORS OUTSIDE SERVICE HEAD.
- 5 COMBINATION METER/MAIN SERVICE ENCLOSURE. FASTEN TO POLE USING A MINIMUM OF TWO POLE-MOUNTING BRACKETS, ERICKSON ELECTRICAL EQUIPMENT CATALOG NO. PBAL-14 OR EQUAL.
- 6 6AWG GROUNDING ELECTRODE CONDUCTOR IN A 3/4" SCH 80 PVC CONDUIT. ROUTE 3/4" 1-6AWG GROUNDING ELECTRODE CONDUCTOR TO GROUND ROD IN GROUND WELL. SEE DETAIL 24, THIS SHEET.
- 7 COMPLY WITH THE REQUIREMENTS OF PG&E DOCUMENT 025055 "REQUIREMENTS FOR CUSTOMER OWNED POLES".

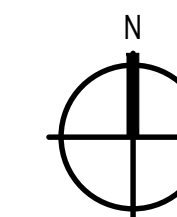
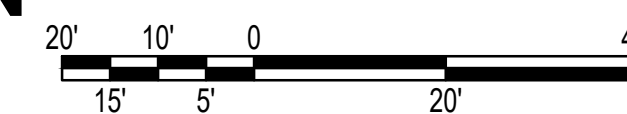
11 CUSTOMER OWNED DROP POLE

NTS



12 LIFT STATION ELECTRICAL SITE PLAN

SCALE 1" = 20' - 0"



DETAIL NOTES

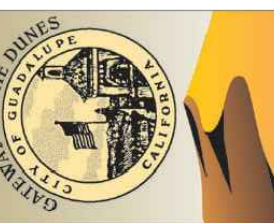
- 1 ALL WORK SHOWN IS EXISTING UON.
- 2 TEMPORARY PUMP LOCATION. SERVE TEMPORARY PUMPS FROM EXISTING ELECTRIC SERVICE. PROVIDE STARTERS, CABLES, AND CONTROLS AS REQUIRED FOR THE DURATION OF THE TEMPORARY PUMP INSTALLATION. IF NECESSARY, PROVIDE LUGS WITHIN THE SIZE ONE STARTER SPACE OF NEW MCCA TO MAINTAIN OPERATION OF THE TEMPORARY PUMPS. TEMPORARY AND PERMANENT PUMPS SHALL NOT RUN CONCURRENTLY, ON THE SAME ELECTRICAL SERVICE. WHERE BOTH SYSTEM PUMPS HAVE TO RUN AT THE SAME TIME PROVIDE TEMPORARY GENERATOR.

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MECHANICAL & ELECTRICAL ENGINEERS
4517 MARKET STREET, SUITE 19 VENTURA, CALIFORNIA 93003
(805) 642-2526

REGISTERED PROFESSIONAL ENGINEER
MACK V. IVERS
No. 12524
9/25
ELECTRICAL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	REG. NUMBER
A			
B			
C			
D			

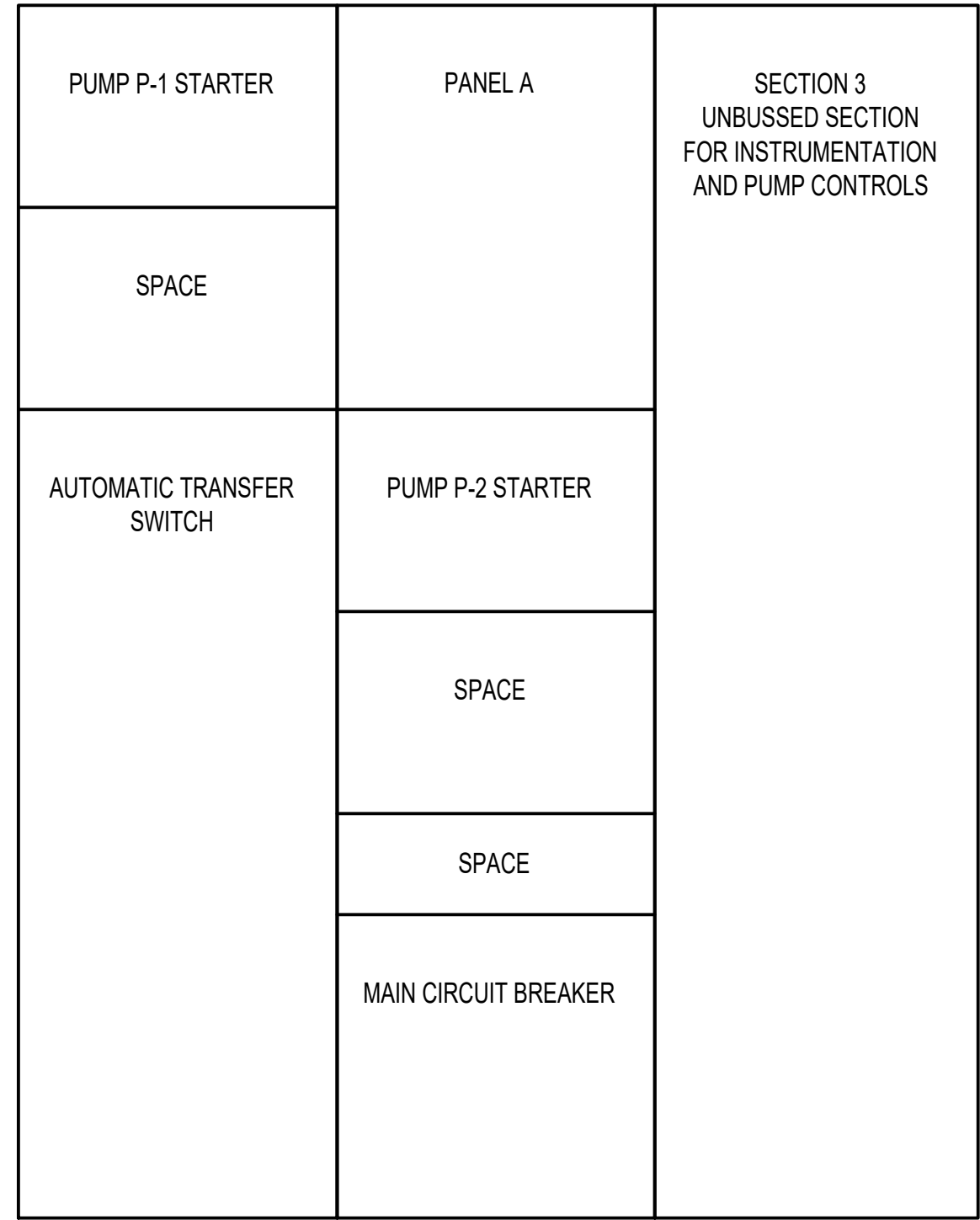
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SAN LUIS OBISPO, CA 93401
(805) 329-4773



CITY OF GUADALUPE
PIONEER LIFT STATION AND FORCE MAIN PROJECT
LIFT STATION ELECTRICAL AND SITE PLANS

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: SEPTEMBER 2024

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE
PROJECT NO.

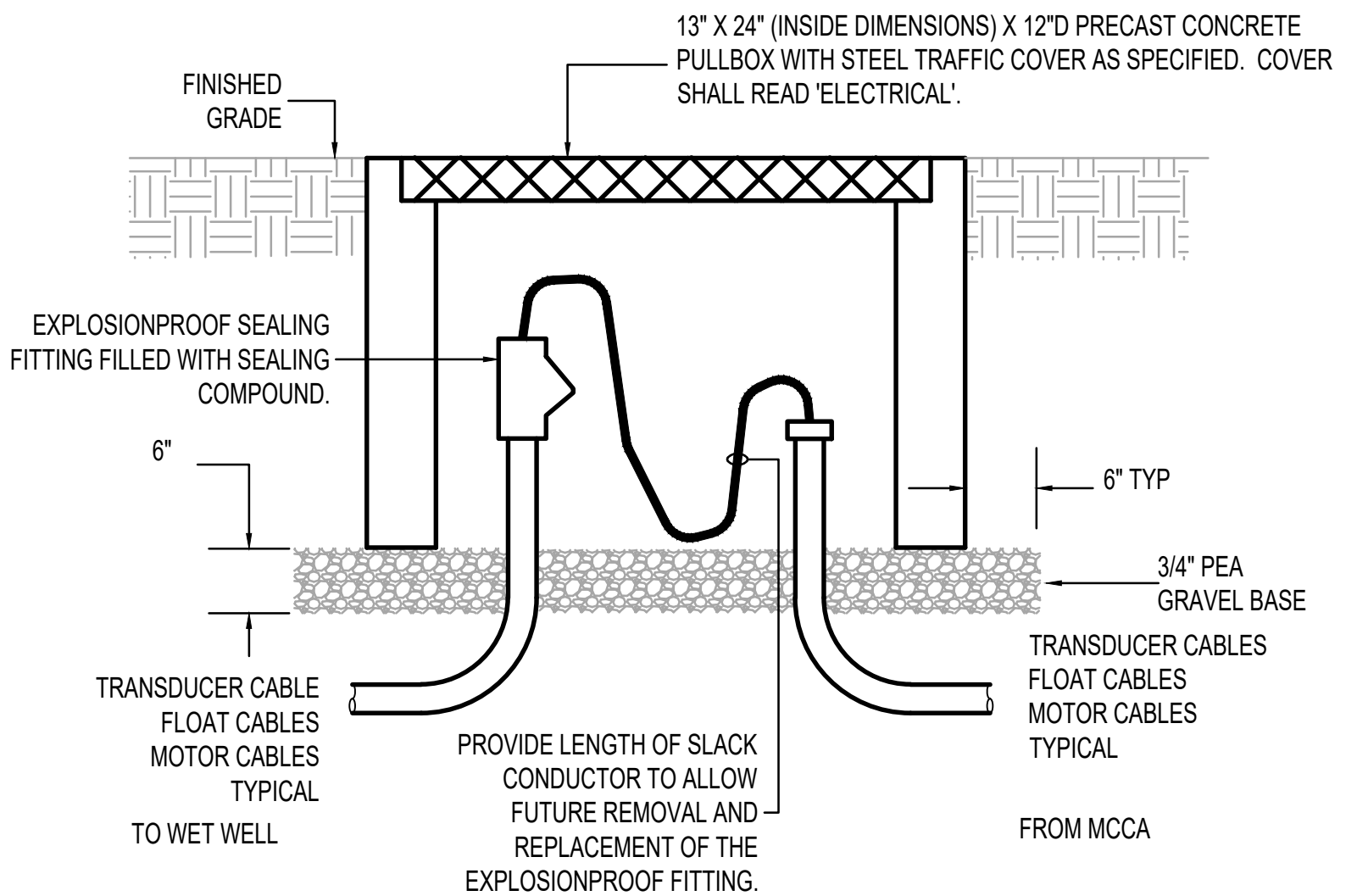


23 MCCA ELEVATION

NTS

BRANCH-CIRCUIT PANELBOARD												
PANEL A												
SERVICE: 120/240V S/N 1P 3W				BUS: 100A				LOCATION: MCCA				
MAIN BREAKER: 30A, 2P				FEEDER: SEE ONE LINE DIAGRAM				VER: A5				
ENTER CABT AT: BOTTOM				MOUNTING: WITHIN MCCA				MINIMUM AIC RATING: 10,000A				
CIRCUIT	TRIP	REL	HP	LOAD	VOLT AMPS A	VOLT AMPS C	DESCRIPTION					
1	20	1		1	60		LIGHTING STANDARD					
2	20	1		5	500		PUMP CONTROLLER					
3	20	1		5		180	AUTO DIALER					
4	20	1		5		450	MCCA SPACE HEATERS					
5	20	1			0		FUTURE SCADA					
6	20	1	1		2	180	RECEPTACLE AT LIGHTING STANDARD - PROVIDE GFCI CB					
7	20	1			5		PUMP 1 CONTROLS					
8	20	1			5		PUMP 2 CONTROLS					
9					0		SPACE					
10					0		SPACE					
11					0		SPACE					
12					0		SPACE					
CONNECTED LOAD (VA)				740	0	830	1570	7 MAX. PHASE AMPS				
COMP. LOAD FACTOR (VA)				0	0	0	0					
COMPUTED LOAD (VA)				740	0	830	1570	7 MAX. PHASE AMPS				
CONT. LOAD FACTOR (VA)				15	0	0	15					
CONDUCTOR LOAD (VA)				755	0	830	1585	7 MAX. PHASE AMPS				

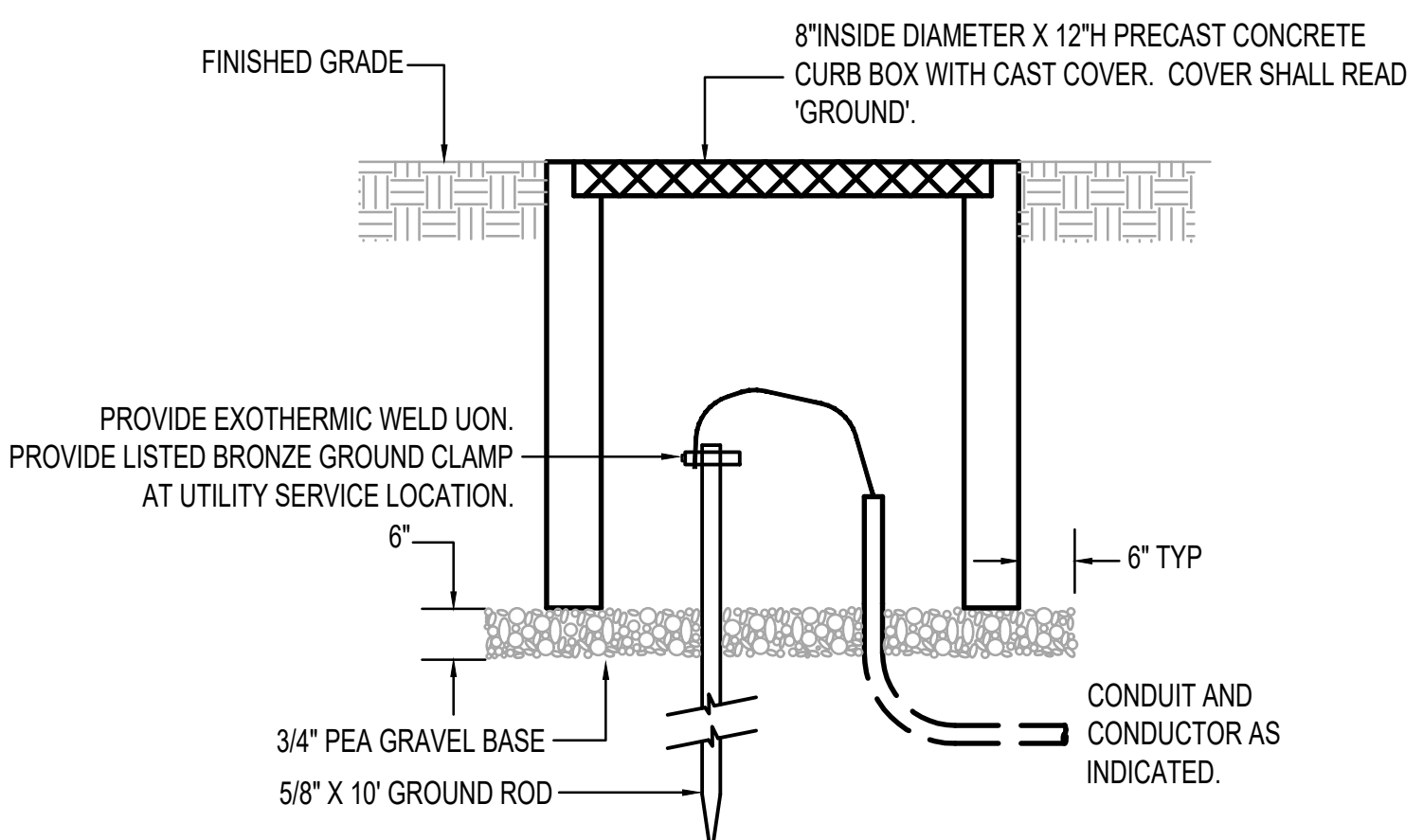
15 PANEL A SCHEDULE



16 HANDHOLE INSTALLATION

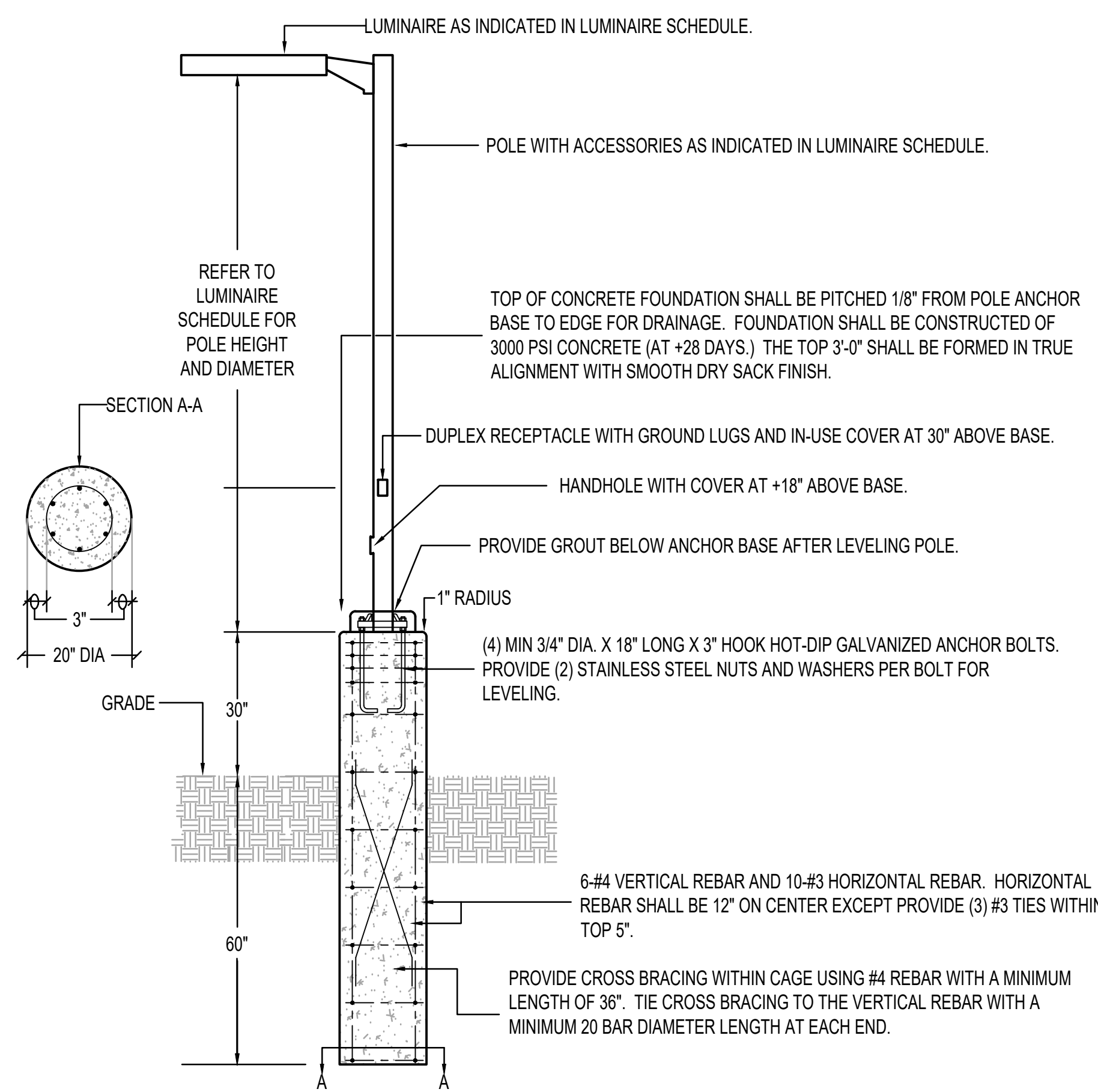
NTS

1 REFER TO DRAWING E-101 FOR QUANTITY AND SIZE OF CONDUITS AND CONDUCTORS.



10 TYPICAL GROUND WELL

NTS



12 LUMINAIRE STANDARD INSTALLATION

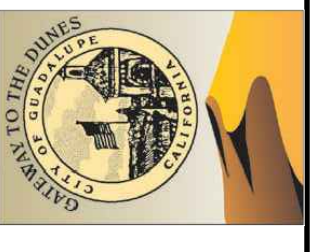
NTS

IRJ ENGINEERS, INC.
MECHANICAL & ELECTRICAL ENGINEERS
4517 MARKET STREET, SUITE 19 VENTURA, CALIFORNIA 93003
(805) 642-2255

REGISTERED PROFESSIONAL ENGINEER
MACK V. IVERS
No. 12524
9/25
ELECTRICAL
STATE OF CALIFORNIA

REV	DATE	PROJECT ENGINEER	DESCRIPTION	APPR

mkn
354 PACIFIC ST
SAN LUIS OBISPO, CA 93401
(805) 329-4773



CITY OF GUADALUPE
PIONEER LIFT STATION AND FORCE MAIN PROJECT
DETAILS

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: SEPTEMBER 2024

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO. E-201
SHEET 15 OF 15