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STRUCTURAL NOTES FOR SITE WORK

ALL STRUCTURAL NOTES ON SHEETS S000, S001, AND S002 SHALL APPLY TO SITE WORK UNLESS SPECIFICALLY LISTED IN THIS PARAGRAPH.

CONCRETE

FOUNDATIONS AND MATS SHALL HAVE A ULTIMATE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A W/C RATIO OF 0.45-0.50. PAVEMENTS SHALL HAVE A ULTIMATE STRENGTH OF 3,500 PSI AT 28 DAYS WITH A W/C RATIO OF 0.5.

STRUCTURAL STEEL

HSS SHAPES SHALL CONFORM TO ASTM A550 GR B. ALL EXPOSED STEEL SHALL BE GALVANIZED.

SPECIAL NOTE

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS, DEPTH AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLY CORRECT, BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUED AS A REPRESENTATION THAT SUCH STRUCTURES WILL, IN ALL CASES, BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL OF THE STRUCTURES WHICH MAY BE ENCOUNTERED.

SITE SAFETY AND PROTECTION NOTES

THE DUTY OF THE ENGINEER, OWNER OR ITS AGENTS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE AND THE UNDERTAKING OF INSPECTIONS OR THE GIVING OF INSTRUCTIONS AS AUTHORIZED HEREIN IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF THE ACTUAL CONSTRUCTION NOR MAKE THE ENGINEER, OWNER OR ITS AGENTS RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, OR SUPPLIERS, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL OR OCCUPANCY BY ANY PERSON.

THE CONTRACTOR SHALL HAVE AT THE WORK SITE, COPIES OR SUITABLE EXTRACTS OF CONSTRUCTION SAFETY ORDERS, ISSUED BY CAL-OSHA. CONTRACTOR SHALL COMPLY WITH PROVISIONS OF THESE AND ALL OTHER APPLICABLE LAWS, ORDINANCES AND REGULATIONS. THE CONTRACTOR MUST COMPLY WITH PROVISIONS OF THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, PROMULGATED BY THE SECRETARY OF LABOR UNDER SECTION 107 OF THE CONTRACT WORK HOURS AND SAFETY STANDARDS ACT, AS SET FORTH IN TITLE 29 C.F.R.

TO PROTECT THE LIVES AND HEALTH OF CONTRACTOR'S EMPLOYEES UNDER THE CONTRACT, THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, INC., AND SHALL MAINTAIN AN ACCURATE RECORD OF ALL CASES OF DEATH, OCCUPATIONAL DISEASE, AND INJURY REQUIRING MEDICAL ATTENTION OR CAUSING LOSS OF TIME FROM WORK, ARISING OUT OF AND IN THE COURSE OF EMPLOYMENT OR WORK UNDER THE CONTRACT.

THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR THE SAFETY, EFFICIENCY, AND ADEQUACY OF CONTRACTOR'S FACILITIES, APPLIANCES, AND METHODS AND FOR ANY DAMAGE, WHICH MAY RESULT FROM THEIR FAILURE OR THEIR IMPROPER CONSTRUCTION, MAINTENANCE OR OPERATION.

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

THE OWNER AND ITS AGENTS' SITE RESPONSIBILITIES ARE LIMITED SOLELY TO THE ACTIVITIES OF THEIR EMPLOYEES ON SITE. THESE RESPONSIBILITIES SHALL NOT BE INFERRED BY ANY PARTY TO MEAN THAT THE OWNER OR ITS AGENTS HAVE RESPONSIBILITY FOR SITE SAFETY, SAFETY IN, ON, OR ABOUT THE SITE IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR ALONE. THE CONTRACTOR'S METHODS OF WORK PERFORMANCE, SUPERINTENDENCE AND THE CONTRACTOR'S EMPLOYEES, AND SEQUENCING OF CONSTRUCTION ARE ALSO THE SOLE AND EXCLUSIVE RESPONSIBILITIES OF THE CONTRACTOR ALONE.

EXCESS MATERIAL AND DEBRIS SHALL BE REMOVED FROM THE ROAD RIGHT-OF-WAY AT THE END OF CONSTRUCTION OPERATIONS, NIGHTLY.

UTILITY POLE SPECIAL NOTES

- POLES SHALL BE SUPPORTED AT ALL TIMES WHERE OUTSIDE EDGE OF TRENCH IS WITHIN 5' OF OUTSIDE EDGE OF POLE UNTIL SUCH TIME THAT TRENCH IS BACKFILLED AND COMPACTED. THE CONTRACTOR SHALL SUPPORT EXISTING POLES IN A MANNER APPROVED IN ADVANCE BY UTILITY COMPANY.
- THE CONTRACTOR SHALL NOTIFY UTILITY IN ADVANCE OF STARTING CONSTRUCTION ACTIVITIES REQUIRING POLE HOLDING AND OBTAIN A POLE HOLDING PERMIT.

EXISTING UTILITY NOTES

- THE CONTRACTOR SHALL POTHOLE ALL EXISTING FACILITIES IDENTIFIED PRIOR TO THE START OF CONSTRUCTION AS FIRST ORDER OF WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION TO ALLOW ADVANCE DECISIONS TO BE MADE ON NECESSARY RELOCATIONS OR GRADE CHANGES TO PROPOSED FACILITIES. THE ENGINEER SHALL APPROVE FIELD CHANGES THAT INCLUDE ANY RELOCATIONS AND GRADE CHANGES ASSOCIATED WITH EXISTING FACILITY CONFLICTS.
- POTHOLING SHALL EXPOSE THOSE FACILITIES THAT MAY EFFECT THE LOCATION OR DEPTH OF THE WATER MAIN OR THOSE UTILITIES AS SPECIFICALLY NOTED HEREIN.
- THE EXISTING COUNTY SERVICE AREA (CSA) 30 AND CSA 32 WATER DISTRIBUTION SYSTEMS AND SEWER COLLECTION SYSTEMS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS BASED ON INFORMATION PROVIDED BY THE COUNTY OF FRESNO. THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY'S REPRESENTATIVE TO IDENTIFY LOCATION OF EXISTING WATER AND SEWER FACILITIES IN THE FIELD. THE CONTRACTOR IS RESPONSIBLE FOR POTHOLING AND PHYSICALLY VERIFYING THE LOCATION AND DEPTH OF WATER AND SEWER FACILITIES.
- THE DEPTH OF SEWER MAINS SHOWN ARE APPROXIMATE BASED ON FIELD MEASUREMENTS AND FLOW LINES ARE SHOWN ON THE PLANS FOR REFERENCE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTH OF EXISTING SEWER MAINS AT WATER MAIN CROSSINGS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SEWER SERVICES AND VERIFY ADEQUATE SEPARATION FROM NEW WATER SERVICES (SEE CONSTRUCTION NOTES ON THIS SHEET).

GENERAL NOTES

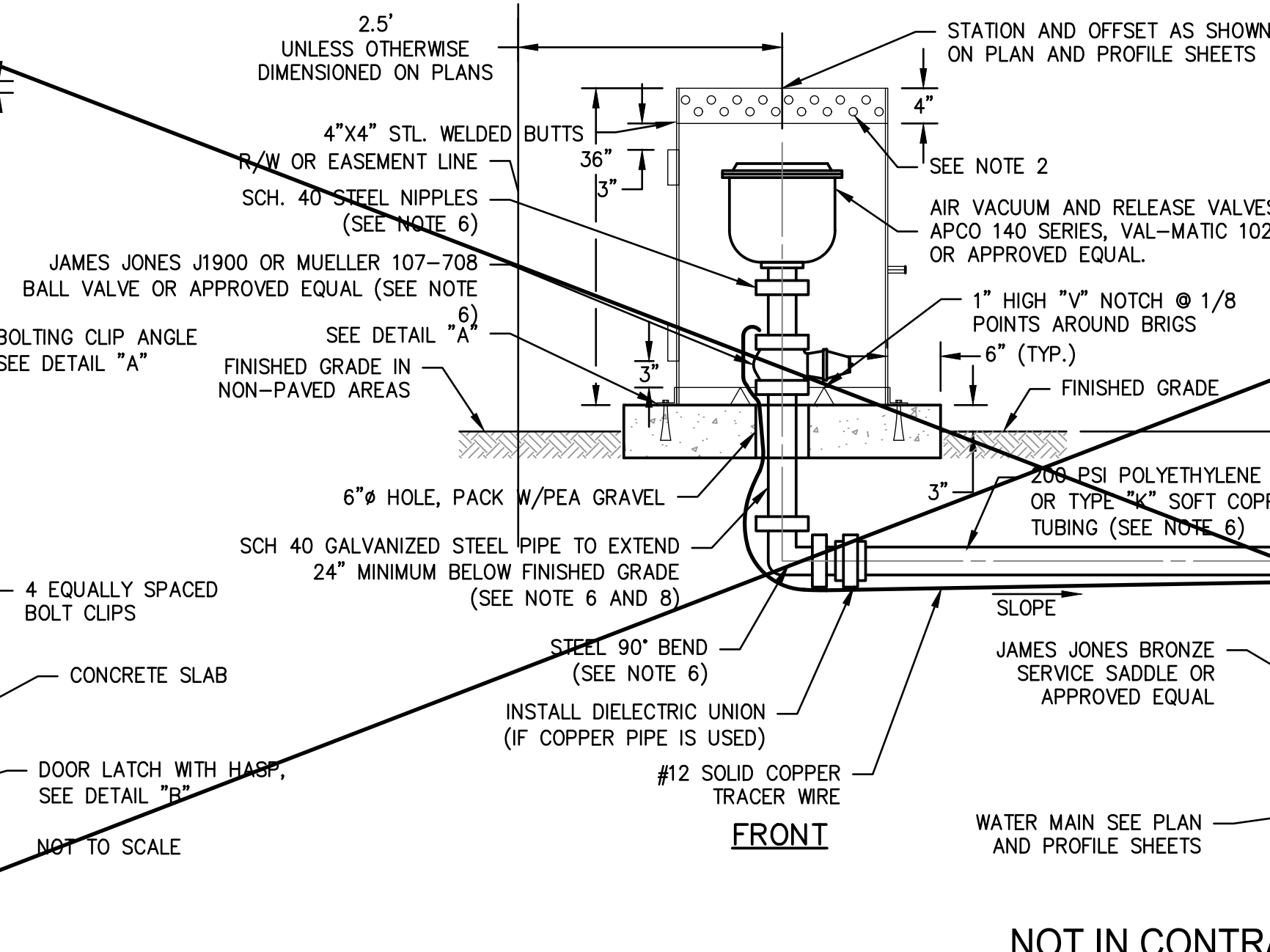
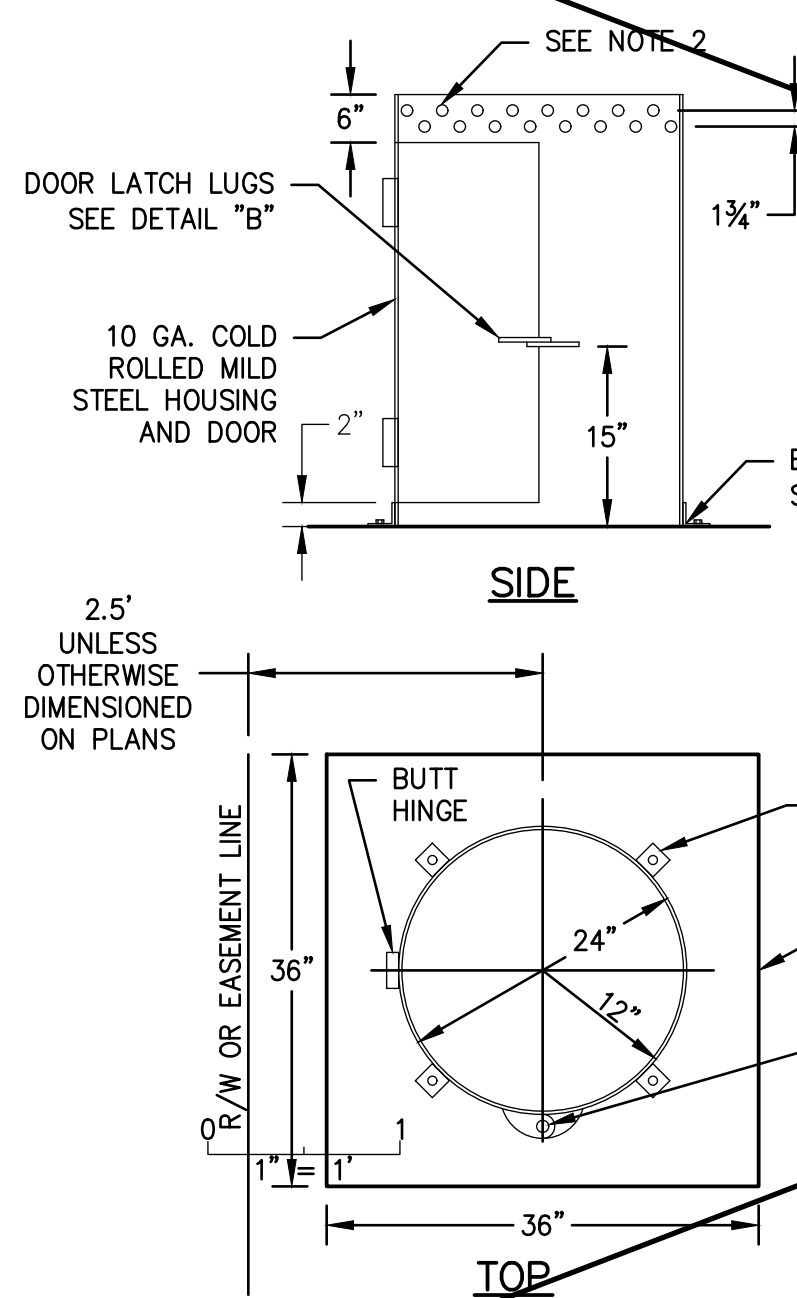
- THE COUNTY OF FRESNO AND CALTRANS SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK WITHIN THEIR RESPECTIVE RIGHTS OF WAY OR NEAR THEIR EXISTING FACILITIES, UNLESS SPECIFIED OTHERWISE ON THESE PLANS, SPECIFICATIONS, OR PERMITS ISSUED BY EACH RESPECTIVE AGENCY.
- ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THESE PLANS, PROJECT SPECIFICATIONS, AND ALL OTHER STANDARDS REFERENCED.
- THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING FACILITIES PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) AT 8-1-1. CONTRACTOR SHALL MAKE ENGINEER AWARE OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE COUNTY OF FRESNO AND CALTRANS AND OBTAIN APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING. TRAFFIC CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST REVISION.
- THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM COUNTY OF FRESNO FOR ANY TRAFFIC CONTROL OR OTHER INCIDENTAL WORK WITHIN COUNTY OF FRESNO RIGHT OF WAY.
- THE CONTRACTOR SHALL OBTAIN A BUILDING PERMIT FROM COUNTY OF FRESNO DEVELOPMENT SERVICES. DEVELOPMENT SERVICES CAN BE REACHED BY PHONE AT (559) 600-4570 OR BY EMAIL AT PLANCHECKBUILDINGCODE2@FRESNOCOUNTYCA.GOV
- THE CONTRACTOR SHALL REPLACE ANY DISTURBED WARNING MARKERS, SIGNS, STRIPING, CROSS BARS AND STOP BARS AS NECESSARY AND AS DIRECTED BY THE COUNTY AND CALTRANS.
- WORK WITHIN WESTLANDS WATER DISTRICT RIGHTS-OF-WAY SHALL BE COMPLETED IN ACCORDANCE WITH CONSTRUCTION NOTES ON THIS SHEET.
- THE CONTRACTOR SHALL COMPLY WITH THE ENVIRONMENTAL PROTECTION MEASURES SPECIFIED IN SECTION 01 35 43 OF THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE DUST CONTROL AT ALL TIMES AND COMPLYING WITH ALL REQUIREMENTS OF THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT. REFER TO THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS AT ALL TIMES. REFER TO THE PROJECT SPECIFICATIONS.
- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE HEALTH AND SAFETY LAWS OF THE STATE OF CALIFORNIA AND CAL/OSHA STANDARDS INCLUDING BUT NOT LIMITED TO 2019 CALIFORNIA BUILDING, FIRE, PLUMBING, ELECTRICAL, MECHANICAL, AND BUILDING ENERGY CODES.
- ALL EXCESS MATERIAL AND/OR DEBRIS SHALL BE REMOVED UPON COMPLETION OF INSTALLATION.
- AN ON-SITE PRE-CONSTRUCTION MEETING BETWEEN ALL PARTIES INVOLVED IN THE CONSTRUCTION AND INSPECTION OF IMPROVEMENTS SHALL BE ARRANGED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL CONDUCT A LINEAR VIDEO OF THE ENTIRE PROJECT LIMITS TO RECORD PRE-EXISTING CONDITIONS OF THE COUNTY ROAD AND PROPERTY FRONTAGE IMPROVEMENTS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS INCLUDING BUT NOT LIMITED TO: FENCES, GATES, MAILBOXES, CONCRETE, AND LANDSCAPING. ANY EXISTING IMPROVEMENTS DAMAGED SHALL BE REPLACED "IN KIND" AND RESTORED TO THEIR ORIGINAL CONDITION.

CONSTRUCTION NOTES

- SEWER, RAW WATER, GAS AND STORM DRAIN UTILITY CROSSINGS:
 - THE CONTRACTOR SHALL VERIFY THE DEPTH OF THE EXISTING UTILITY PIPES AS THE FIRST ORDER OF WORK AND SHALL NOTIFY THE ENGINEER OF ANY OBSERVED CONFLICTS WITH THE PROPOSED WATER MAIN PROFILES. IN NO CASE WILL LESS THAN 4" CLEARANCE BE ALLOWED BETWEEN EXISTING UTILITIES AND NEW WATER MAINS.
 - IF THE NEW WATER MAIN IN CSA 30 IS ABOVE THE EXISTING UTILITY PIPE AND CLEARANCE IS LESS THAN 12", THE CONTRACTOR SHALL INSTALL A MINIMUM LENGTH OF 20' OF SCHEDULE 80 DIP PIPE WITHOUT JOINTS, CENTERED ON THE EXISTING UTILITY PIPE.
 - IF THE NEW WATER MAIN IN CSA 32 IS ABOVE THE EXISTING UTILITY PIPE AND CLEARANCE IS LESS THAN 12", THE CONTRACTOR SHALL INSTALL A MINIMUM LENGTH OF 20' OF AWWA C-900 CLASS 305 (DR14) PVC WITHOUT JOINTS, CENTERED ON THE EXISTING UTILITY PIPE.
 - FOR BOTH CONDITION B AND C ABOVE, IF THE NEW WATER MAIN IS INSTALLED BELOW THE EXISTING UTILITY PIPE AND CLEARANCE IS LESS THAN 12", A CEMENT SLURRY BACKFILL SHALL BE REQUIRED PER DETAIL 4 ON DRAWING NO. CD2 IN ADDITION TO THE REQUIREMENTS LISTED ABOVE.
- THE NEW WATER MAIN PROFILES SHOWN HEREON INCLUDE VERTICAL GRADE BREAKS THAT SHOULD THEORETICALLY BE POSSIBLE TO MAKE BY MINOR DEFLECTIONS AT PIPE JOINTS. IF CHANGES NEED TO BE MADE TO THE PROFILES DUE TO EXISTING UTILITY CONFLICTS, ADDITIONAL VERTICAL BEND FITTINGS MAY NEED TO BE INSTALLED. HOWEVER, NO CHANGES SHALL BE MADE TO THE PROFILES WITHOUT APPROVAL BY THE ENGINEER.
- COMBINATION AIR VALVES SHALL BE INSTALLED AT ALL HIGH POINTS IN THE PIPE PROFILE, AT THE LOCATIONS SHOWN ON THE PLANS. IF ADDITIONAL HIGH POINTS ARE CREATED DUE TO DEVIATIONS FROM THE DESIGN PROFILES, ADDITIONAL COMBINATION AIR VALVES MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.
- MINIMUM DEPTH OF COVER OVER THE NEW WATER MAINS SHALL BE MAINTAINED AS SPECIFIED ON THE PLANS. ANYWHERE MINIMUM COVER CANNOT BE ACHIEVED, IMPROVED PIPE BEDDING, INCLUDING CONCRETE SLURRY CRADLES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.

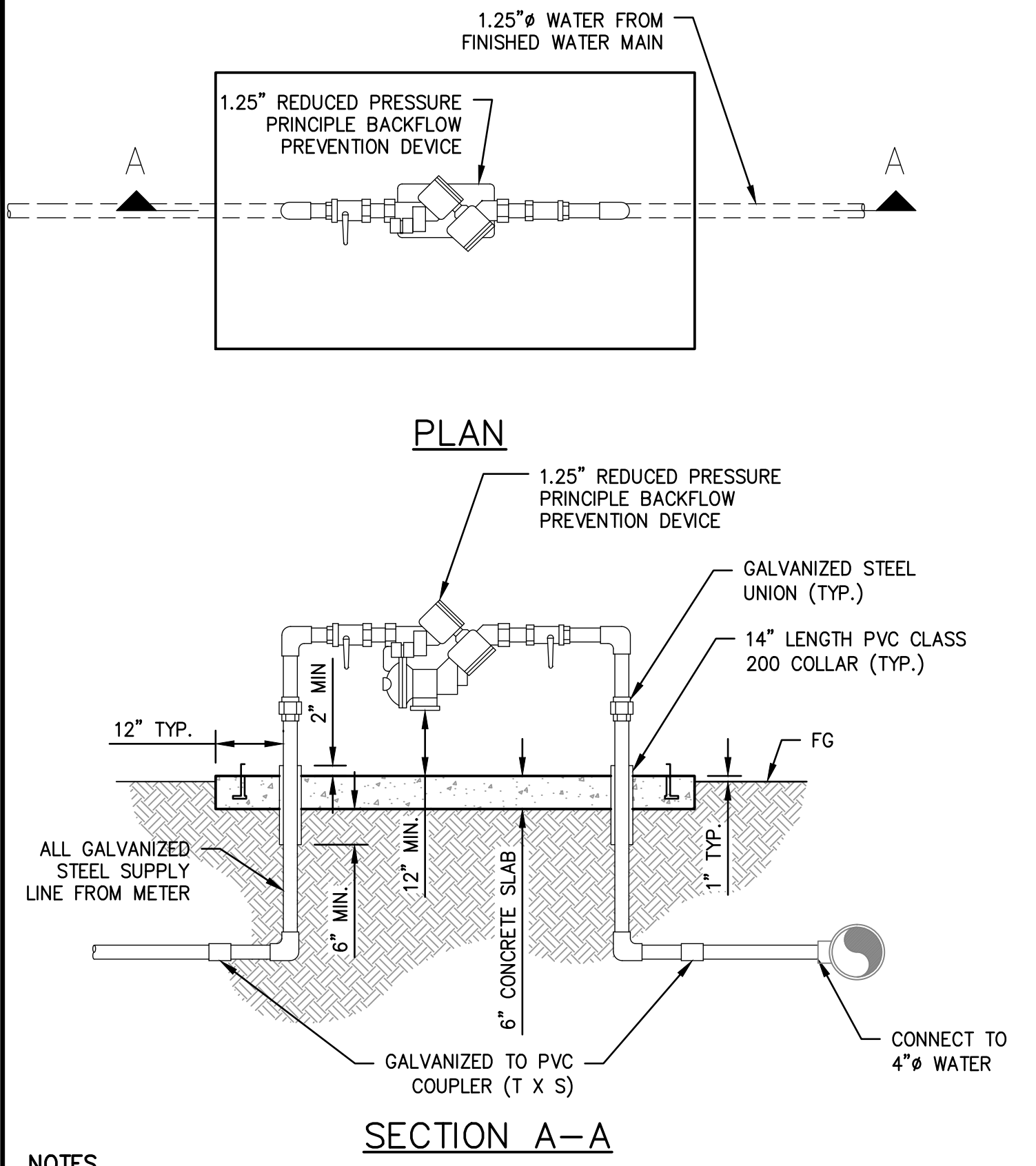
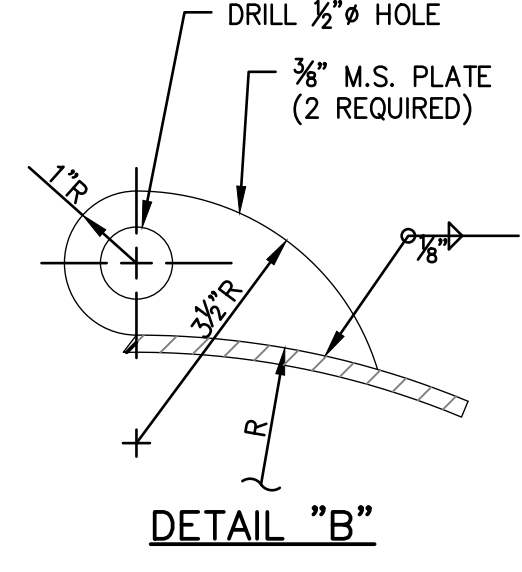
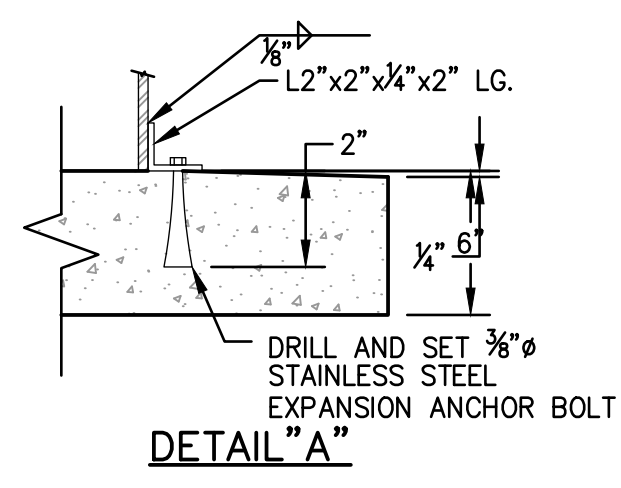
DATE		RECORD DRAWING		SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING	
DESIGNED: NDJ, STS	7-27-2023	RESIDENT ENGINEER	DATE			WESTSIDE GROUNDWATER PROJECT		SHEET INDEX & GENERAL NOTES	
DRAWN: PPI	7-27-2023					COUNTY OF FRESNO		GENERAL	
CHECKED: MWK	7-27-2023					ROAD NO. N/A	BRIDGE NO. N/A	DRAWING NO. 2	SHEET NO. G2-1
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				SUPERVISING ENGINEER	DATE			TOTAL	97





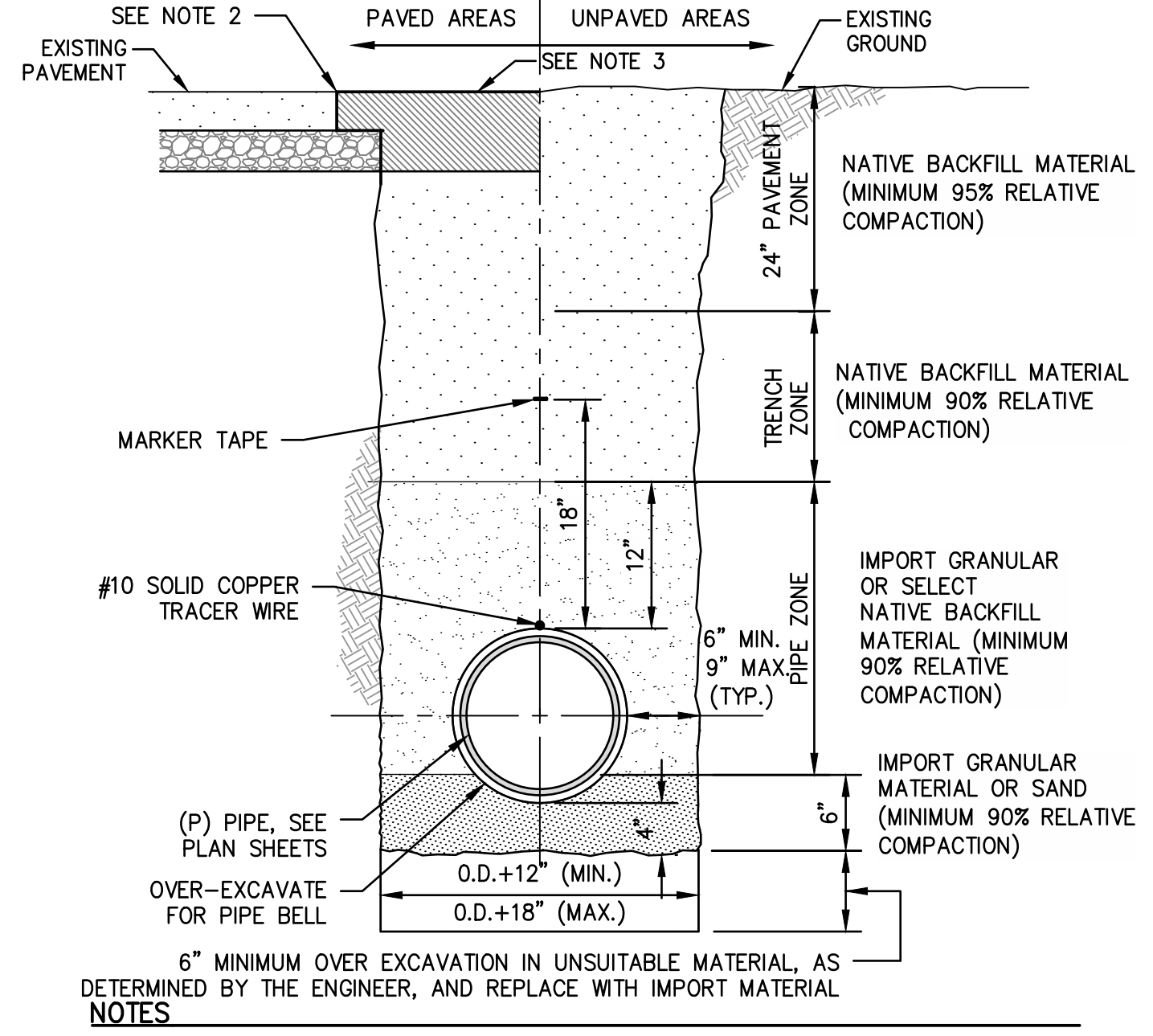
- AIR RELEASE VALVE NOTES:**
1. ALL PIPE WITHIN VAULTS SHALL BE ANSI CLASS 200 OR AWWA CLASS F.
 2. DRILL 30 - 3/4" VENT HOLES, EVENLY SPACED AS SHOWN.
 3. STEEL HOUSING SHALL BE PRIMED AND PAINTED WITH A LIGHT GREEN EXTERIOR ENAMEL FINISH.
 4. ALL GALVANIZED PIPE SHALL BE THREADED.
 5. INSTALL VALVE AND CAN AS SHOWN OR AS DIRECTED.
 6. THE SIZE OF ALL VALVES, PIPE AND FITTINGS SHALL BE SHOWN IN THE SIZING TABLE.
 7. ALL ARV'S SHALL HAVE A MINIMUM 1/2" Ø ORIFICE.
 8. ALL UNDERGROUND STEEL PIPE AND FITTINGS SHALL BE GALVANIZED AND WRAPPED OR FLETCHER COATED.
 9. ALL ABOVE GROUND STEEL PIPE AND FITTINGS SHALL BE GALVANIZED.

SIZING TABLE	
WATER MAIN SIZE	VALVE AND PIPING SIZE
8"	2"
6"	1 1/2"
4"	1"

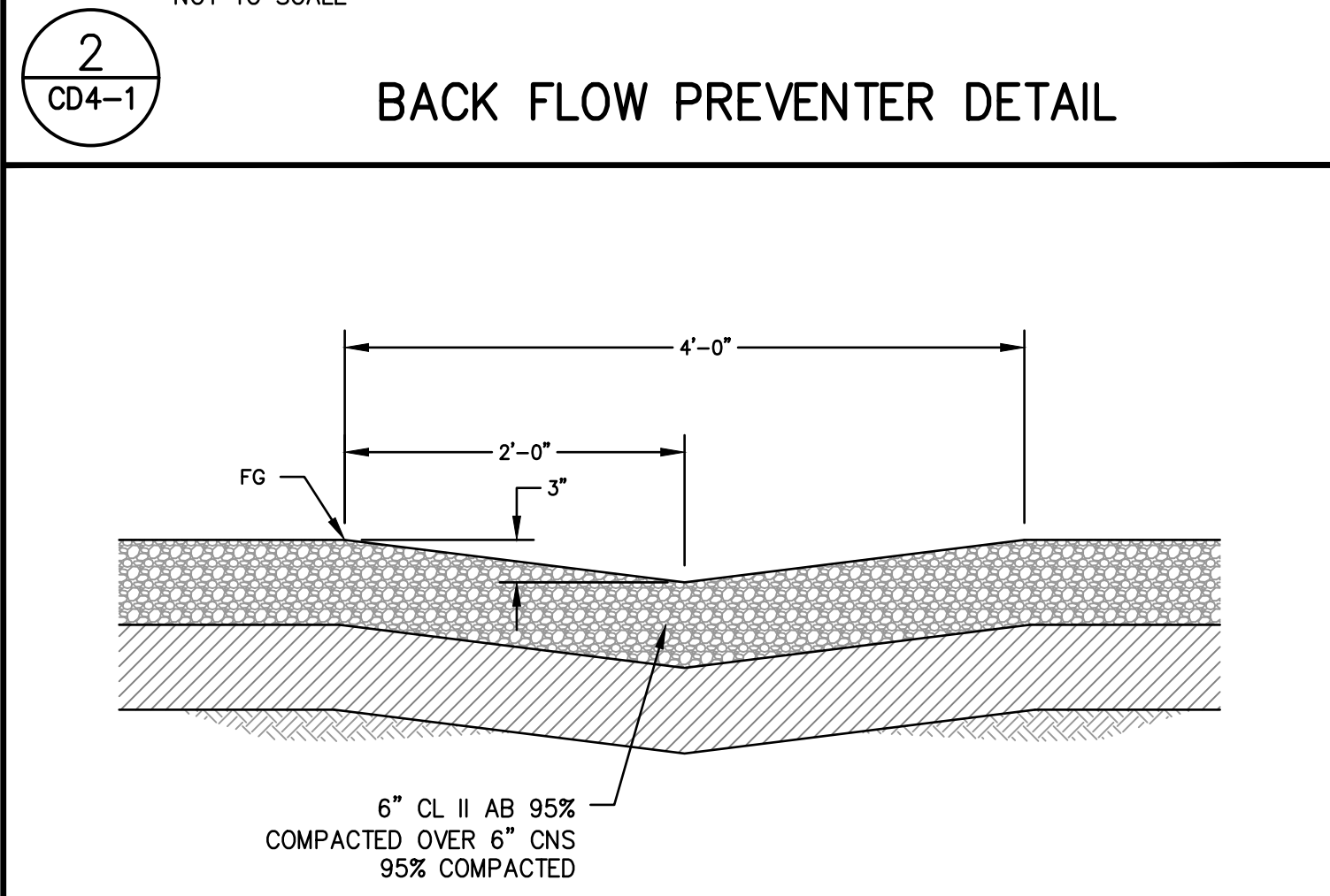


- NOTES**
1. ALL GALVANIZED STEEL PIPE AND FITTINGS BELOW GRADE TO BE PRIMED AND WRAPPED WITH A 50 PERCENT OVERLAP OF 10 MIL CORROSION PROTECTION TAPE. (SCOTCHRAP OR EQUAL)
 2. BACK FLOW PREVENTER MUST BE TESTED AND CERTIFIED; TESTER REPORT SUBMITTED TO ENGINEER.
 3. SEE TECHNICAL SPECIFICATIONS FOR REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTION DEVICE MODEL NUMBER AND INFORMATION.
 4. CONTRACTOR TO PROVIDE INSULATING COVER FOR REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE.

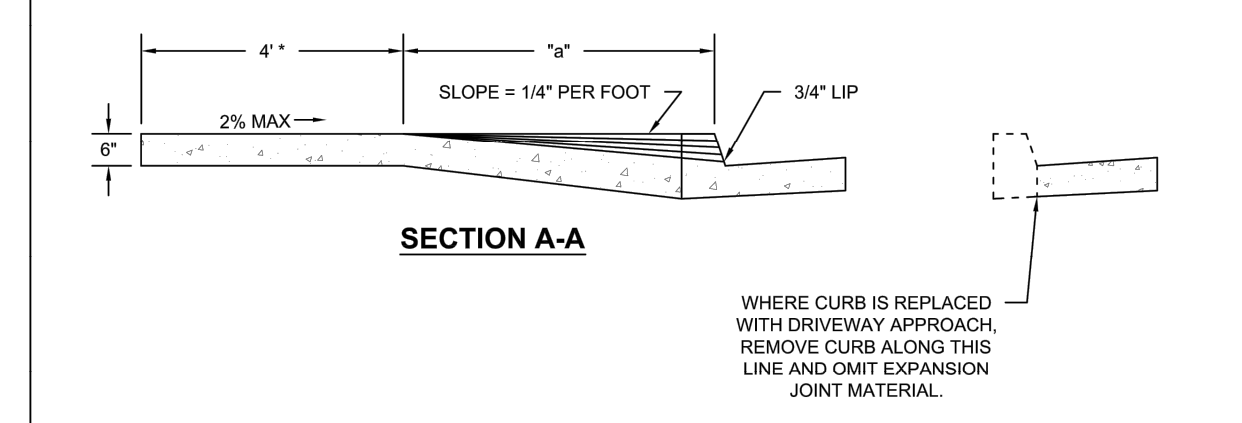
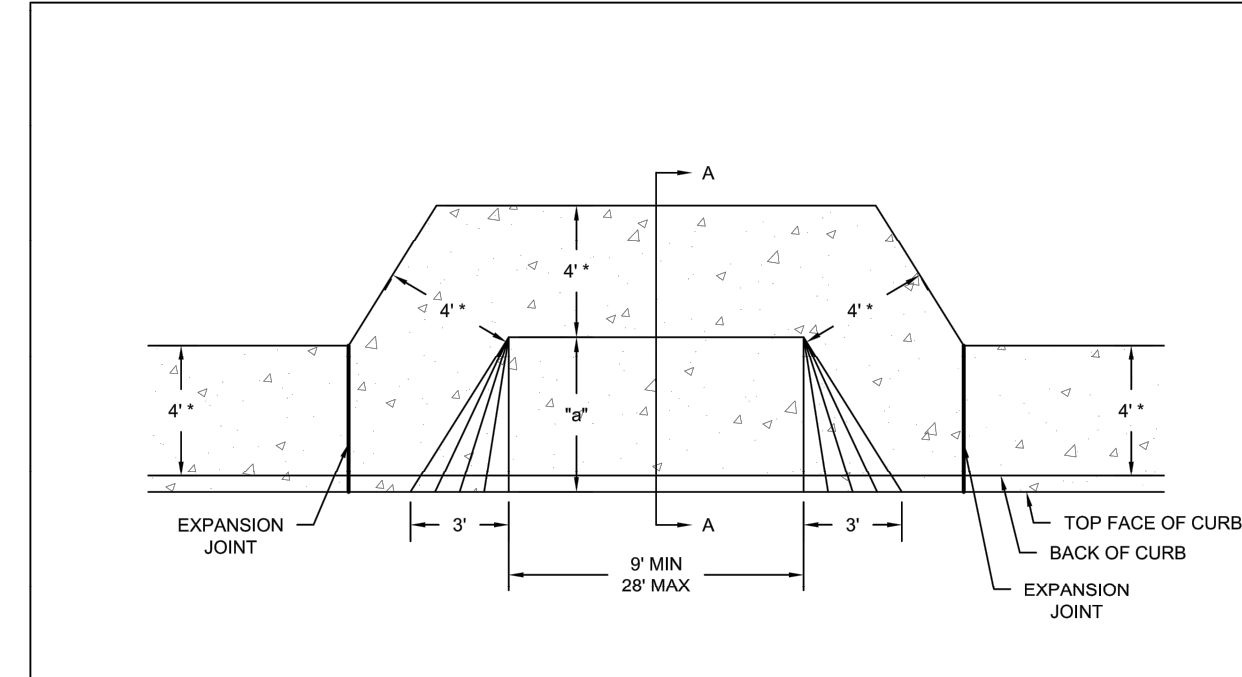
AIR RELEASE-VACUUM VALVE ASSEMBLY



- NOTES**
1. NO JETTING IS ALLOWED.
 2. CUT NEAT LINE AT EDGES OF PAVEMENT (TYP.)
 3. PERMANENT TRENCH RESURFACING IN ROAD RIGHT OF WAY SHALL CONSIST OF ASPHALT CONCRETE PAVEMENT PER DETAIL 5 ON SHEET CD5-1. AGGREGATE BASE ROCK SURFACING AT WELL AND TANK SITES SHALL BE PER PLAN.
 4. TEMPORARY RESURFACING SHALL CONSIST OF A MINIMUM OF 4" COLD MIX AND SHALL BE REQUIRED WHENEVER THE STREET IS TEMPORARILY OPENED TO TRAFFIC. ALL TEMPORARY MATERIAL SHALL BE COMPLETELY REMOVED PRIOR TO FINAL PAVING.



- NOTES**
1. ALL WORK CONSTRUCTED BY THIS STANDARD SHALL BE COMPLETED IN COMPLIANCE WITH CURRENT ADA STANDARDS.
 2. THE SIDEWALK SHALL PROVIDE A CONTINUOUS AND UNOBSTRUCTED PATH-OF-TRAVEL FOR PEDESTRIANS WITH DISABILITIES IN ACCORDANCE WITH CURRENT ADA STANDARDS.
 3. EXPANSION JOINT MATERIAL SHALL CONSIST OF 1/4" THICK PREMOLDED JOINT MATERIAL MEETING ASTM DESIGNATION D-1751.



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COUNTY OF FRESNO		DRAWN BY: L. TAYLOR	12/12/2015
DEPARTMENT OF PUBLIC WORKS AND PLANNING		REVIEWED BY: A. RAMIREZ	2/3/2016
		APPROVED BY: A. WEAVER	DATE
REVISION	DATE	DESCRIPTION	SCALE: NTS

3		CD4-1	
DESIGNED: NDJ, STS	DATE: 7-27-2023	RESIDENT ENGINEER	DATE
DRAWN: PPI	DATE: 7-27-2023		
CHECKED: MWK	DATE: 7-27-2023		

4		CD4-1	
PIPE BEDDING AND TRENCH BACKFILL			

5		CD4-1	
DRAINAGE SWALE			

DATE	RECORD DRAWING	SCALE
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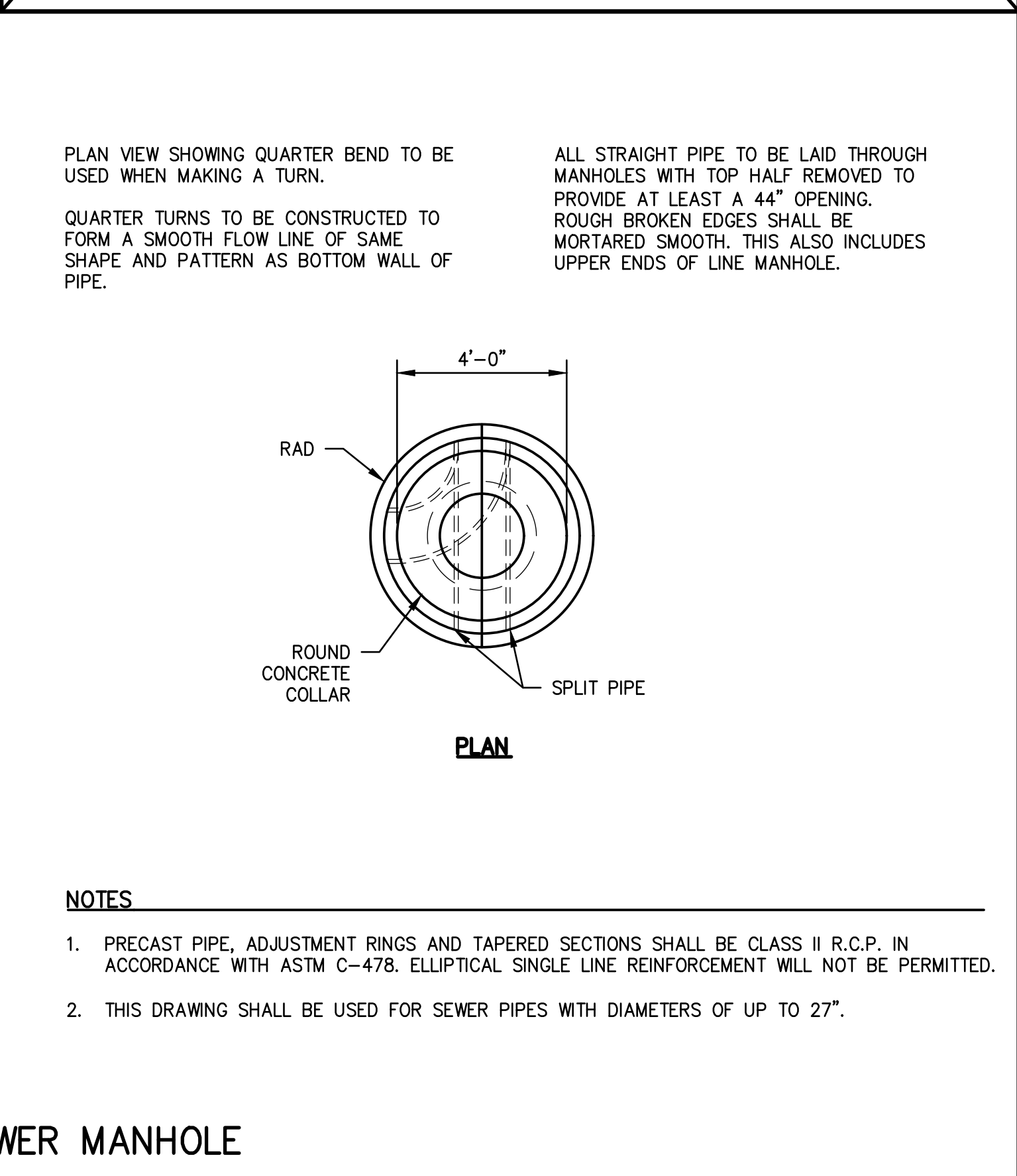
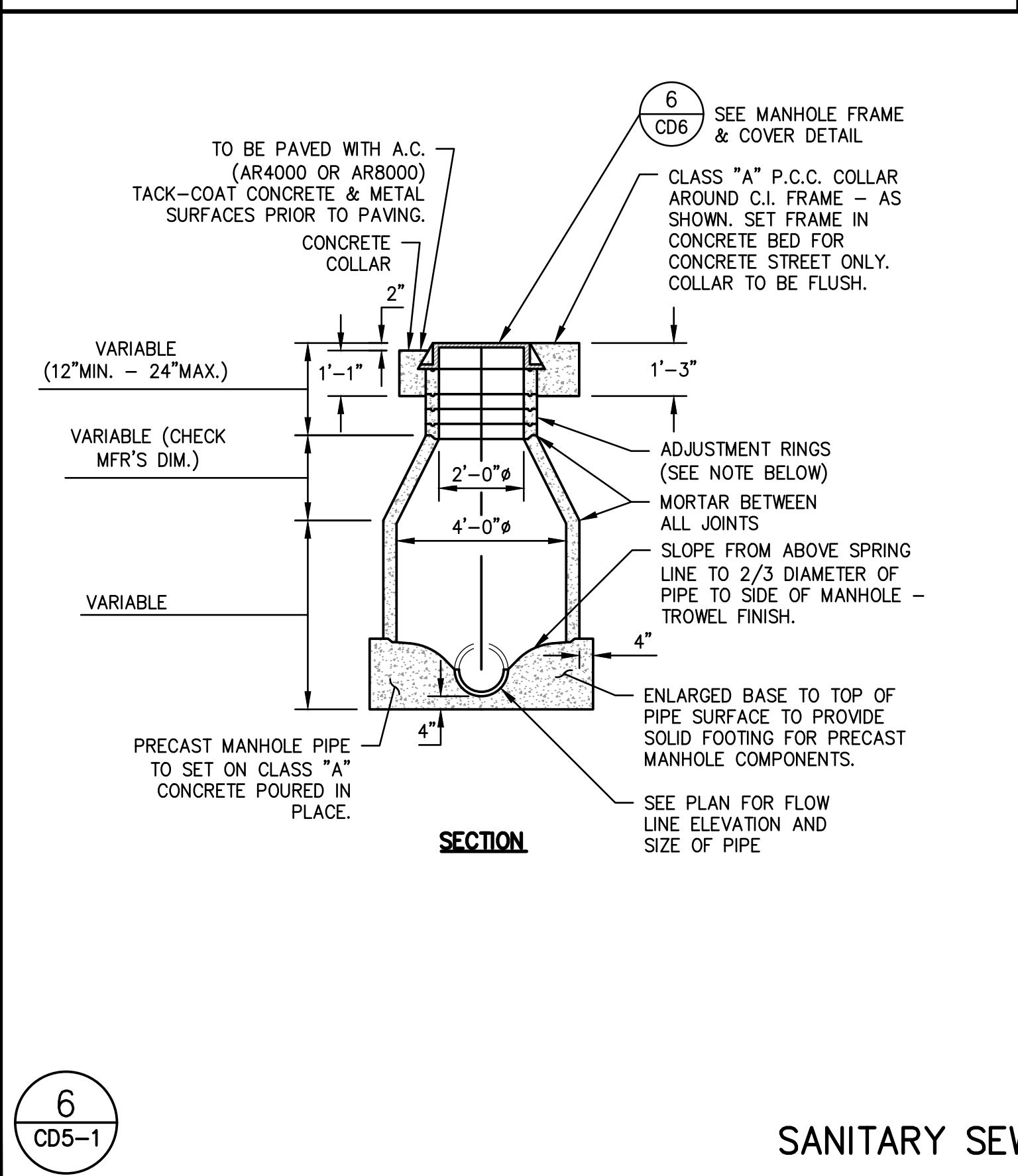
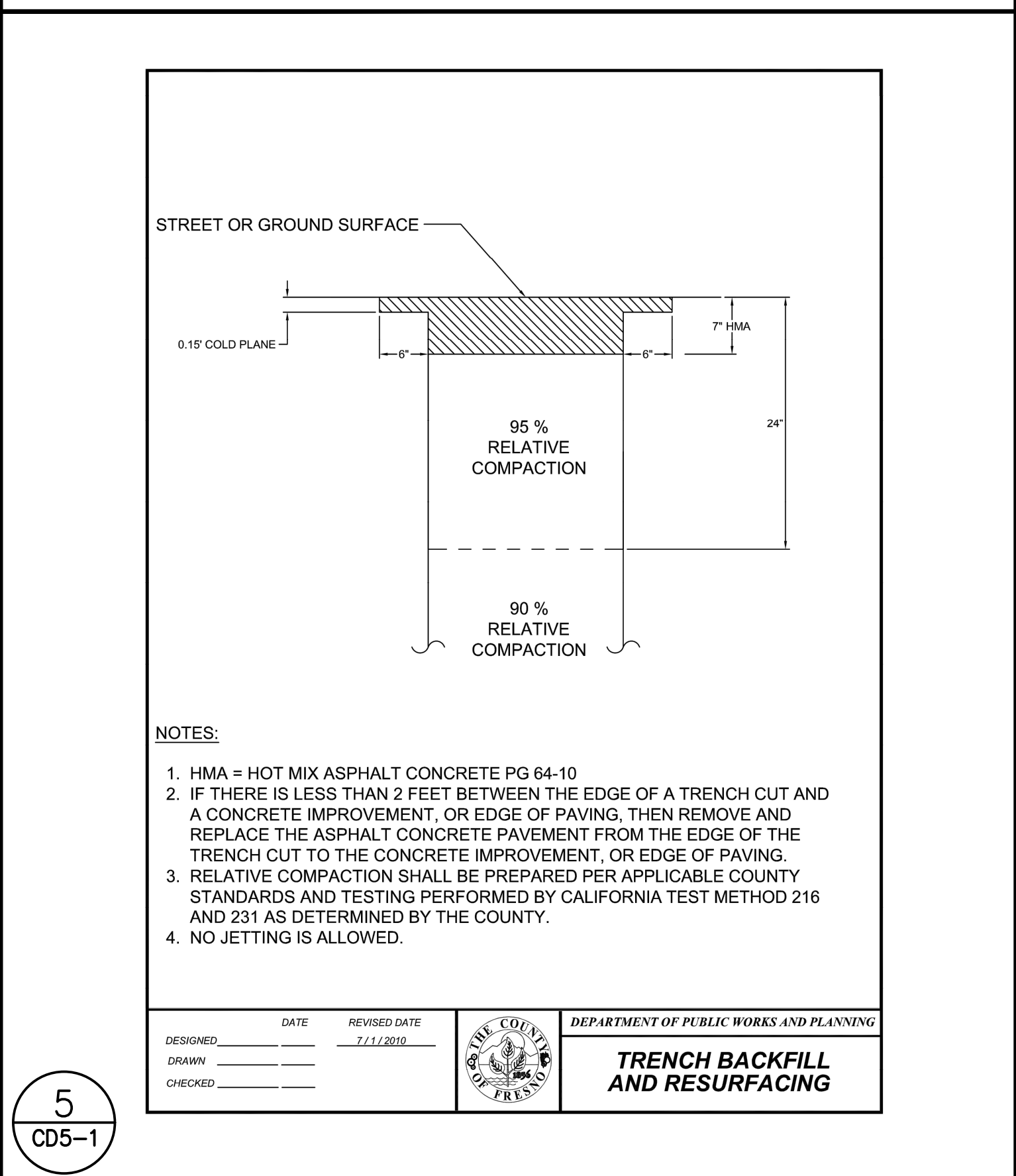
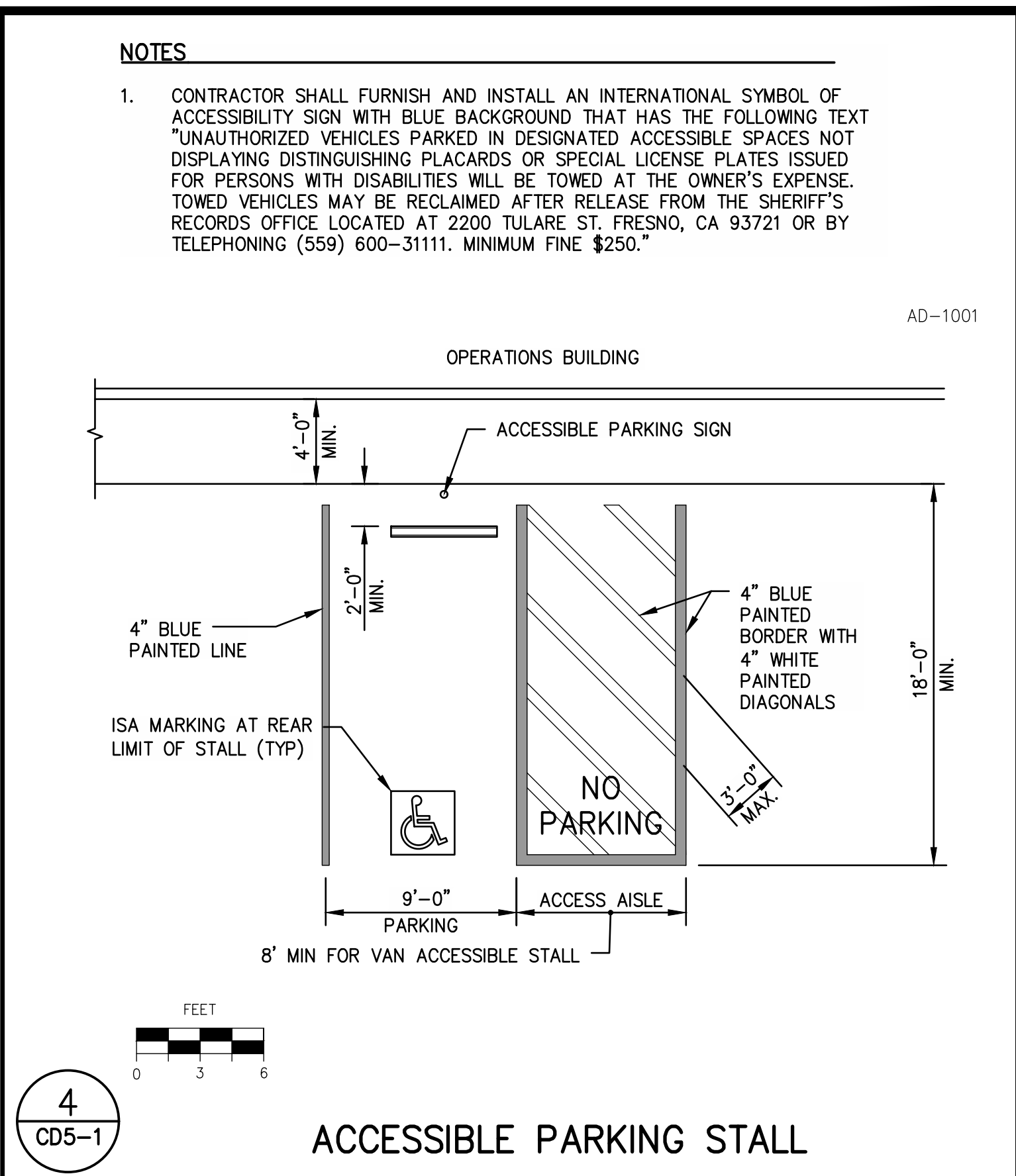
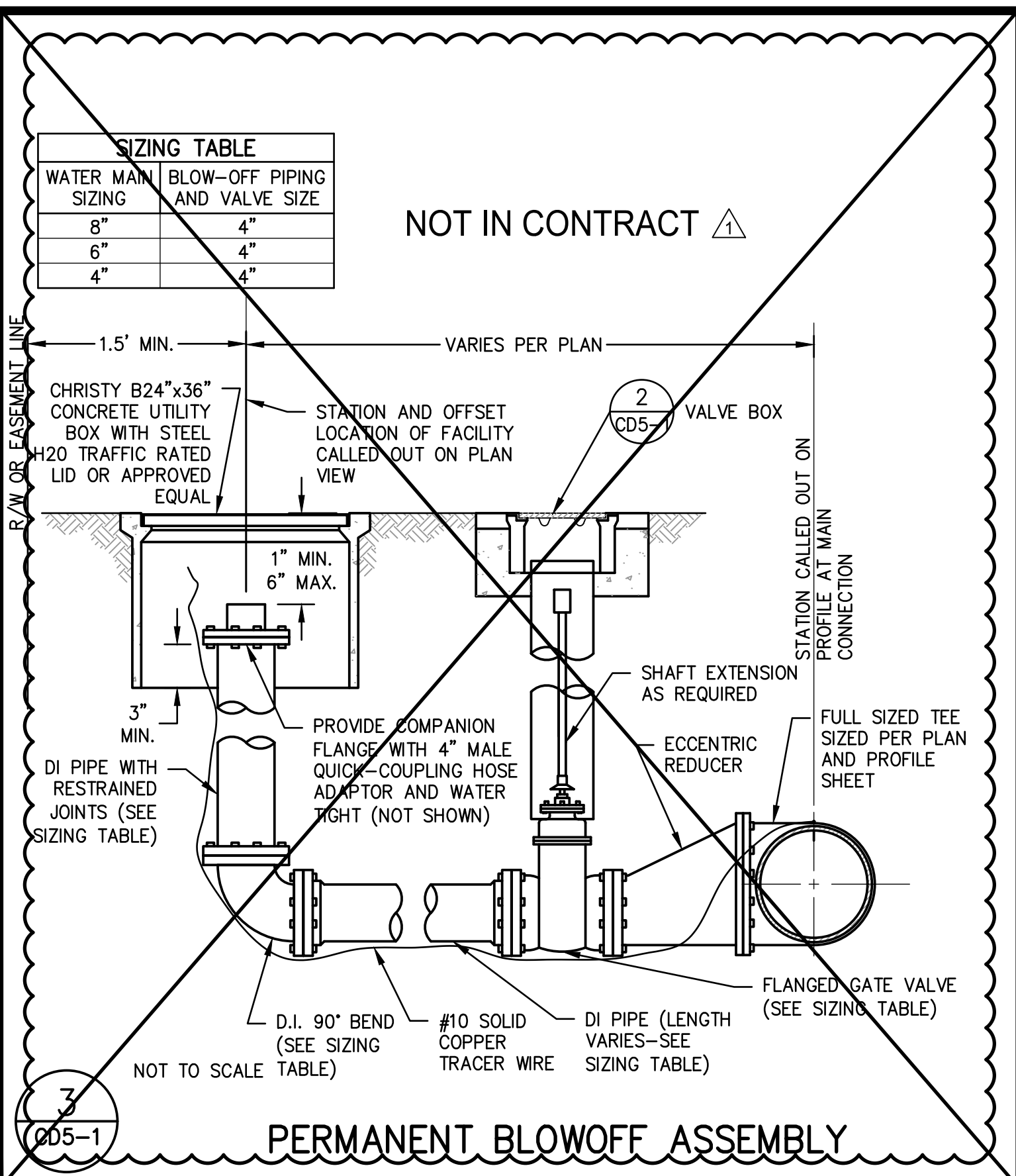
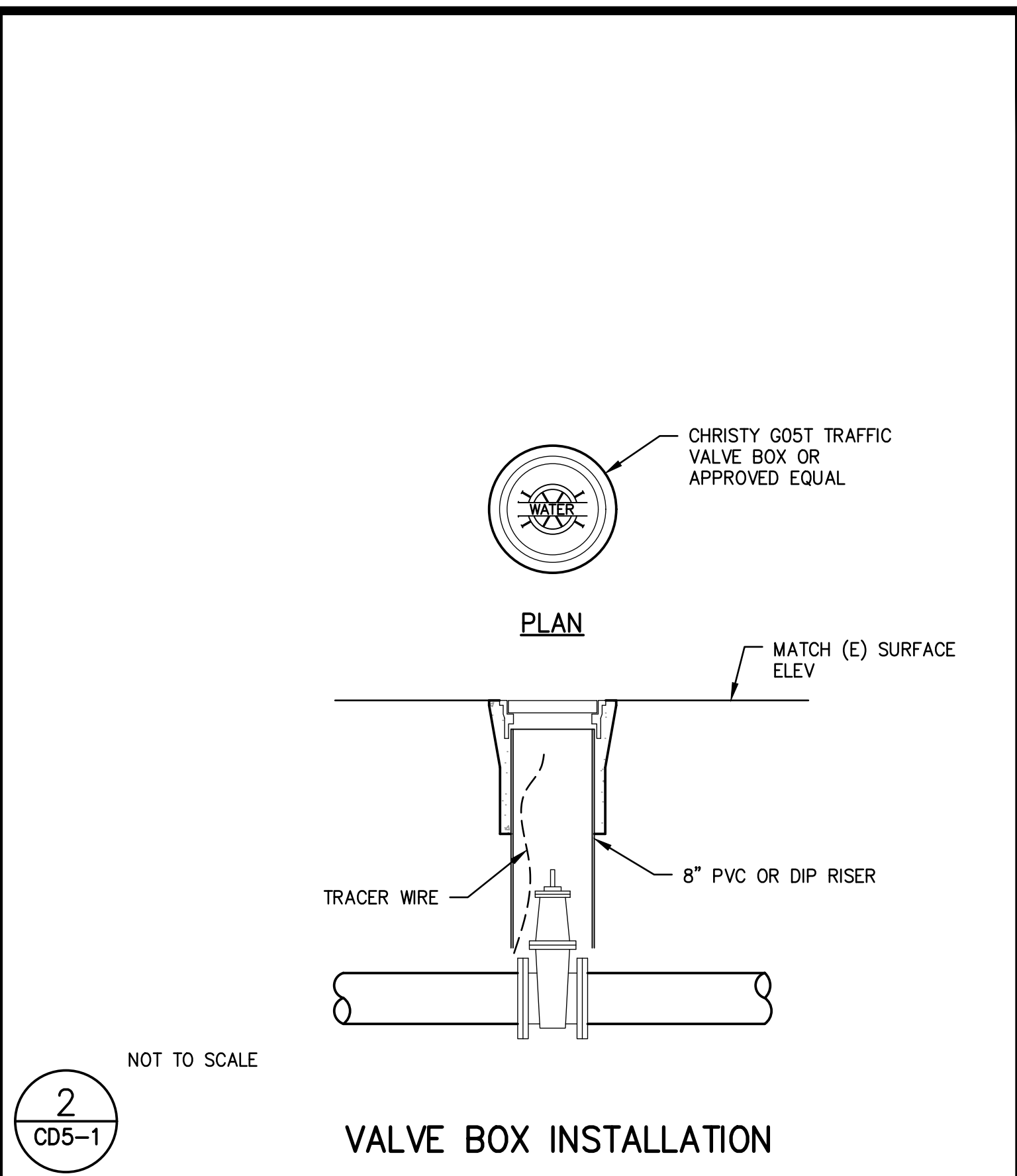
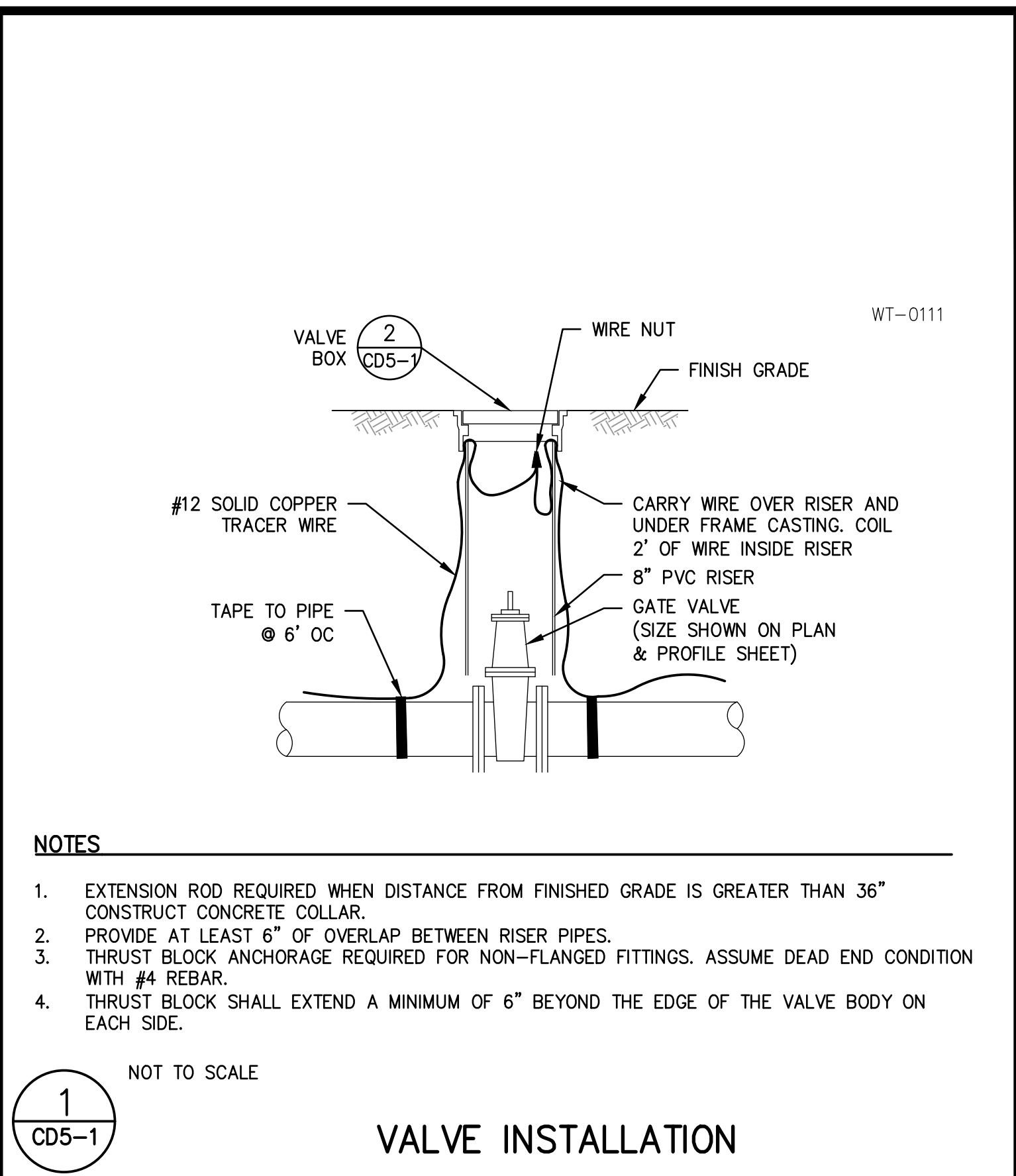
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PROJECT	
WESTSIDE GROUNDWATER PROJECT	
COUNTY OF FRESNO	
ROAD NO. N/A	BRIDGE NO. N/A

DEPARTMENT OF PUBLIC WORKS AND PLANNING	
CONSTRUCTION DETAILS	
DETAILS	
DRAWING NO. 41	SHEET NO. CD4-1 TOTAL 97

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



DESIGNED:	DATE:	RECORD DRAWING	SCALE	PROJECT	DEPARTMENT OF PUBLIC WORKS AND PLANNING
DESIGNED: NDJ, STS	7-27-2023	RESIDENT ENGINEER		WESTSIDE GROUNDWATER PROJECT	STANDARD DETAILS
DRAWN: PPI	7-27-2023			COUNTY OF FRESNO	DETAILS
CHECKED: MWK	7-27-2023			ROAD NO. N/A	DRAWING NO. 42
				BRIDGE NO. N/A	SHEET NO. CD5-1
					TOTAL 97

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



11/01/23 3:15:40 PM FA\171864 CANTUA CREEK AND EL PORVENIR WATER SYSTEM IMPROVEMENTS\NEW WORK\COMBINED SHEETS\E.O. COVER.DWG kpezzoni

FIXTURE SCHEDULE				
DESIG.	SYMBOL	LAMP QTY WATTS	DESCRIPTION	MANUFACTURER
(A)		LED 8000LM 1/61W	FULLY ENCLOSED & GASKETED INDUSTRIAL LED 8' LIGHT FIXTURE.	H.E.WILLIAMS# 96-8-L80/835-HIAFR-OCCWS-FSP321B-L2-120-DIM-UNV
(AE)		LED 8000LM 1/61W	FULLY ENCLOSED & GASKETED INDUSTRIAL LED 8' LIGHT FIXTURE.	H.E.WILLIAMS#96-8-L80/835-HIAFR-OCCWS-FSP321B-L2-120-EM/10W DIM-UNV
(A1)		LED 30W	4' LED LUMINAIRE -FULLY GASKETED -120V.	H.E.WILLIAMS# 96-4-L40/835-HIAFR-120-DRV-UNV
(B)		LED 46W	LED WALL PACK, MOUNTED AT +7'-0" A.F.F.	H.E.WILLIAMS# WPTZS-L20/740-PC-DIM-120
(P1)		LED 10400LM 63W	SINGLE ARM LED ROADWAY LUMINAIRE FIXTURE HI/LOW DRIVER WITH MOTION SENSOR/PHOTO CELL. GALV. POLE W/ARM(S). POLE PER CITY STDS. & DETAIL 1/E3.0	STREETWORKS FIXTURE:1x ARCH-M-PA2-60-740-U-T3-AP-10K-IP666-MS-DIM-L40 POLE: RTS6A20SVS168GV POLE MOUNT @ +22'-6"
(P2)		LED 10400LM X2 126W	SAME AS TYPE "P1" BUT DOUBLE ARM ASSEMBLY	STREETWORKS FIXTURE:2x ARCH-M-PA2-60-740-U-T3-AP-10K-IP666-MS-DIM-L40 POLE: RTS6A20SVS268GV POLE MOUNT @ +22'-6"

ELECTRICAL ABBREVIATIONS			
Δ	DELTA CONNECTED	(F)	FUTURE
Y	WYE CONNECTED	FA	FIRE ALARM
Φ	PHASE	FACP	FIRE ALARM CONTROL PANEL
&	AND	FAT	FIRE ALARM TERMINAL CABINET
⊙	AT	FIXT	FIXTURE
·	FEET	FLA	FULL LOAD AMPS
·	INCHES	FLX	FLEXIBLE
A	AMPERES	FLUOR	FLUORESCENT
AC	ALTERNATING CURRENT	FS	FLOW SWITCH
ACT	ABOVE COUNTERTOP/BACKSPASH	FOR	FORWARD-OFF-REVERSE
ADJ	ADJACENT, ADJOINING	FT	FEET
AUX	AUXILIARY	GALV	GALVANIZED
ALT	ALTERNATE	GND	GROUND
AFF	ABOVE FINISHED FLOOR	GC	GENERAL CONTRACTOR
AL	ALUMINUM	HI	HIGH
APPROX	APPROXIMATE	HND	HAND-OFF-AUTO
ARCH	ARCHITECT	HOS	HAND-OFF-STANDBY
AUTO	AUTOMATIC	HV	HIGH VOLTAGE
AUX	AUXILIARY	HWAC	HEATING, VENTILATION, AIR CONDITIONING
ALT	ALTERNATE	IF	INTERMEDIATE DISTRIBUTION FRAME
AWG	AMERICAN WIRE GAUGE	INCAN	INCANDESCENT
B	BARE	IDC	INITIATING DEVICE CIRCUIT
BC	BARE COPPER GROUND	INCHES	INCHES
BKBD	BACKBOARD	INST	INSTANTANEOUS
BRKR	BREAKER	J	JUNCTION BOX
BLOG	BUILDING	KV	KILOVOLTS
C	CONDUIT OR CONTRACTOR	KVA	KILOVOLT AMPERES
CAB	CABINET	KW	KILOWATTS
CATV	CABLE TELEVISION	L	LINE
CCT	CIRCUIT	LB	ELBOW
CLG	CEILING	LF	LINEAR FEET
CO	CONDUIT ONLY	LOS	LOCK-OUT-STOP
COMM	COMMUNICATION	LH	LOCK-OFF-HALT
CONC	CONCRETE	LV	LOW VOLTAGE
CONN	CONNECT	M	MOTOR
CONT	CONTINUATION OR CONTINUED	MAX	MAXIMUM
COORD	COORDINATE	MCA	MINIMUM CIRCUIT AMPS
CR	CONTROL RELAY	MCC	MOTOR CONTROL CENTER
CT	CURRENT TRANSFORMER	MCM	THOUSAND CIRCULAR MILLS
COMP	COMPRESSOR	MCP	MOTOR CIRCUIT PROTECTOR
CU	COPPER	MDF	MAIN DISTRIBUTION FRAME
DC	DIRECT CURRENT	MECH	MECHANICAL
DET	DETAIL	MFG	MANUFACTURER
DISC	DISCONNECT	MIN	MINIMUM
DIST	DISTRIBUTION	MPOE	MAIN POINT OF ENTRY
DSA	DIVISION OF THE STATE ARCHITECT	MSB	MAIN SWITCHBOARD
DWG	DRAWING	N	NEUTRAL
(E), EXIST	EXISTING	(N)	NEW
EC	ELECTRICAL CONTRACTOR	NA	NON-AUTOMATIC
EL, ELEV	ELEVATION	NAC	NOTIFICATION APPLIANCE CIRCUIT
EL	ELECTRICAL LIGHT	NC	NORMALLY CLOSED
ELECT	ELECTRICAL	NEC	NOT IN ELECTRICAL SECTION
EMS	ENERGY MANAGEMENT SYSTEM	NES	NOT IN ELECTRICAL CODE
EMT	ELECTRICAL METALLIC TUBING	NO, #	NUMBER
EOL	END OF LINE	NO	NORMALLY OPEN
ENCL	ENCLOSURE	NL	NIGHT LIGHT
EP	EXPLOSION PROOF		
EQUIP	EQUIPMENT		
ETC	ET CETERA		
EVAP	EVAPORATOR		
		OC	ON CENTER
		OH	OVERHEAD
		OL	THERMAL OVERLOAD RELAY
		OT	OVER TEMPERATURE
		OSHDP	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
		PA	PUBLIC ADDRESS
		PB	PULL BOX
		PC	PANEL
		PH	PHASE
		PIR	PIR
		PS	PRESSURE SWITCH
		PWR	POWER
		RD	ROAD
		(R)	REMOVE(D)
		RA	REMOTE ANNUNCIATOR
		REQD	REQUIRED
		REQMTS	REQUIREMENTS
		RFGP	REDUNDANT GROUND PATH
		RM	ROOM
		RECP	RECEPTACLE
		RT	RAIN TIGHT
		SCH	SCHEDULE
		SEC	SECONDS, SECONDARY
		SHT	SHEET
		SIG	SIGNAL
		SPECIS	SPECIFICATIONS
		SW	SWITCH
		SWD	SWITCHED
		SP	SPARE
		STD	STANDARD
		STR	STRANDED
		SWBD	SWITCHBOARD
		TELE	TELEPHONE
		TEMP	TEMPERATURE
		TOA	TEST OFF AUTOMATIC
		TH	THERMOSTAT
		TRANSF	TRANSFORMER
		TYP	TYPICAL
		TSP	TWISTED SHIELDED PAIR
		THRU	THROUGH
		UG	UNDERGROUND
		UNO	UNLESS NOTED OTHERWISE
		V	VOLTS
		VA	VOLT AMPS
		VFD	VARIABLE FREQUENCY DRIVE
		VM	VOLT METER
		W	WIRE
		W/O	WITHOUT
		WP	WEATHERPROOF
		WH	WATT HOUR DEMAND METER
		WM	WATT METER
		WH	WATER HEATER
		WTR	WATER
		YEMER	TRANSFORMER
		(XR)	REMOVE AND RELOCATE(D)

ELECTRICAL COMPLIANCE NOTES

THE INTENT OF THE DRAWINGS AND SPECIFICATION IS TO CONSTRUCT THE PROPOSED BUILDING IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS.

NO WORK SHALL COMMENCE AT THE PROJECT SITE BEFORE THE BUILDING PERMIT IS FULLY EXECUTED WITH THE START DATE ENTERED AND SIGNED BY THE OWNER AND CONTRACTOR, AND AVAILABLE FOR POSTING AT JOBSITE. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE FOLLOWING CODES AND REGULATIONS AS APPLICABLE:

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2019 CALIFORNIA BUILDING CODE (CBC)
PART 2, TITLE 24, CCR

2019 CALIFORNIA ELECTRICAL CODE (CEC)
PART 3, TITLE 24, CCR

2019 CALIFORNIA MECHANICAL CODE (CMC)
PART 4, TITLE 24, CCR

2019 CALIFORNIA PLUMBING CODE (CPC)
PART 5, TITLE 24, CCR

2019 CALIFORNIA FIRE CODE (CFC)
PART 9, TITLE 24, CCR

2019 CALIFORNIA INTERNATIONAL FIRE CODE (IFC)
PART 9, TITLE 24, CCR

UNLESS OTHERWISE STATED, IT IS INTENDED THAT THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN EFFECT ON THE DATE OF THE CONTRACT. NOTHING ON THE DRAWING IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE ABOVE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

NOTE:
THE FIRE ALARM AND EMERGENCY GENERATOR SUBMITTAL IS DEFERRED AND STATE FIRE MARSHAL APPROVAL OF THESE PLANS, IS CONTINGENT UPON RECEIVING AND APPROVED SUBMITTALS.

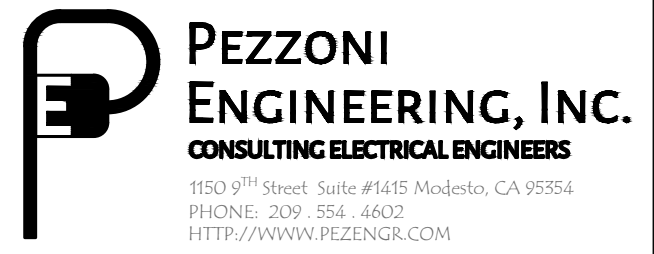
g. GENERATORS OVER 50 HORSEPOWER REQUIRE APPROVAL THROUGH SAN JOAQUIN VALLEY AIR POLLUTION CONTROL BOARD.

- GENERAL ELECTRICAL NOTES**
- PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND PERFORM ALL OPERATIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK REQUIRED FOR THE COMPLETE AND OPERATING SYSTEMS AS OUTLINED WITHIN THE SCOPE OF WORK.
 - UNDERWRITERS LABORATORIES, INC., SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.
 - THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE.
 - CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE AS NOTED ON CONSTRUCTION DOCUMENTS.
 - ALL REQUIRED CONDUITS SHALL BE PROVIDED BY E.C. LOW VOLTAGE WIRING SHALL BE BY MECHANICAL CONTRACTOR, LINE VOLTAGE (50 VOLTS OR MORE) SHALL BE BY ELECTRICAL CONTRACTOR.
 - ALL CONDUITS SHALL BE SUPPORTED AND BRACED PER OPM NO. OPM-0043-13, THE "SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS" FOR PIPES AND CONDUITS ONLY. LAYOUT DRAWINGS, SHOWING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM THE RELEVANT OSHPD PRE-APPROVALS FOR PIPING/DUCTS/CONDUITS EXCEPT FIRE SPRINKLERS, NEED TO BE SUBMITTED FOR USE BY THE IOR AND OSHPD STAFF. THE LAYOUT DRAWINGS NEED TO BE REVIEWED AND ACCEPTED BY THE AOR AND SEOR PRIOR TO STARTING INSTALLATION OF THE BRACING/SUPPORT. IOR SHALL ENSURE THE ABOVE REQUIREMENTS ARE SATISFIED.
 - DO NOT PENETRATE STRUCTURAL MEMBERS, INCLUDING BEAMS, COLUMNS, OR FOOTINGS, WITHOUT PRIOR WRITTEN CONSENT OF THE SEOR. SHOULD IT BECOME NECESSARY TO PENETRATE SUCH MEMBERS, NOTIFY THE DISTRICT IN WRITING WITHOUT DELAY, PRIOR TO PROCEEDING WITH CONSTRUCTION AROUND SUCH MEMBERS.
 - ALL ELECTRICAL WORK SHALL CONFORM WITH THE 2016 CALIF. ELECTRICAL CODE CALIFORNIA TITLE 17, 19 & 24 ALONG WITH N.F.P.A. STANDARDS AND THE STATE FIRE MARSHAL'S REQUIREMENTS.
 - ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF STATE & GOVERNING LOCAL FIRE CODES AND BUILDING CODES.
 - WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY, AND PERFORMANCE.
 - WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO PUBLIC AND TO OCCUPANTS OF EXISTING BUILDING.
 - CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
 - CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.
 - OPERATED DEVICES SUCH AS, BUT NOT LIMITED TO, TELE/DATA OUTLETS, RECEPTACLE OUTLETS AND LIGHT SWITCHES INSTALLED IN AREAS NOT RESTRICTED TO AUTHORIZED MAINTENANCE PERSONAL SHALL BE MOUNTED AT A MINIMUM OF +15" AFF., AS MEASURED FROM THE BOTTOM OF THE DEVICE OUTLET BOX, AND MAXIMUM OF +44" AFF., AS MEASURED FROM THE TOP OF THE DEVICE OUTLET BOX.
 - ALL CHANGE ORDER PROPOSALS AND CHANGE ORDERS, BOTH ADDITIVE AND DEDUCTIVE, SHALL BE BASED UPON AND BE ACCOMPANIED BY A DETAILED MATERIALS AND LABOR BREAKDOWN FOR EACH SPECIFIC TASK AND/OR ITEM. THE BREAKDOWN SHALL INCLUDE ACTUAL MATERIALS COSTS PLUS OVERHEAD AND PROFIT, AS WELL AS LABOR UNITS BASE UPON THE MOST RECENT NECA MANUAL OF LABOR UNITS (NECA INDEX #4090) OR EQUIVALENT PUBLICATION FOR EACH SPECIFIC TASK AND ITEM. LABOR COSTS SHALL BE COMPUTED AS OUTLINED WITHIN THE GENERAL CONDITIONS, BASED UPON THE NECA LABOR TABLES FOR EACH TASK REQUIRED. MATERIALS COSTS SHALL INCLUDE ACTUAL CONTRACTOR INVOICE PLUS NO MORE THAN 15% MARKUP. THE OWNER AND CONTRACTOR AGREE TO THE ABOVE CHANGE ORDER COST PROCEDURE, FOR BOTH ADDITIVE AND DEDUCTIVE CHANGE ORDERS.
 - ALL PERSONNEL WORKING WITH ENERGIZED EQUIPMENT WITHIN THE RESTRICTED ZONE PER NFPA-70E SHALL COMPLY WITH ALL NFPA-70E AND OSHA REQUIREMENTS AND BE ARC FLASH SAFETY CERTIFIED.

GENERAL ELECTRICAL LEGEND

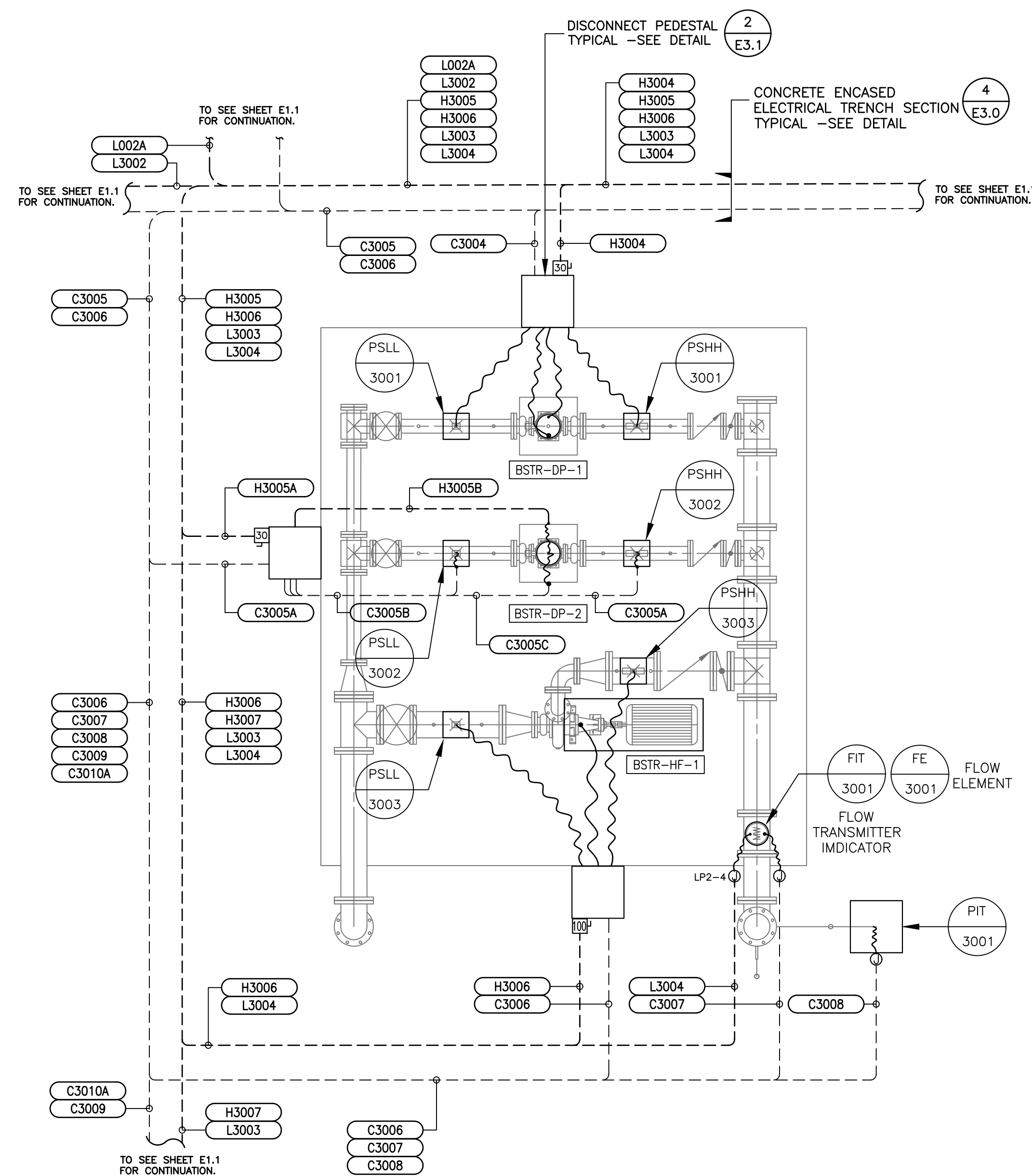
- CONCRETE PULL BOX - SIZE AS NOTED - LIDS AS NOTED 'P' POWER, 'S' SIGNAL, 'F' FIRE ALARM & 'D' DATA; '-T' DENOTES TRAFFIC LID
- CONDUIT - SURFACE MOUNTED OR ABOVE CEILING - EMT WITH COMPRESSION FITTING UNLESS NOTED ON PLANS
- CONDUIT - CONCEALED BELOW FLOOR IN EMT OR UNDERGROUND IN PVC SCH 40 WITH IMC ELBOWS
- HOMERUN TO PERSPECTIVE PANEL OR CABINET - BRANCH CIRCUIT WITH OUT FURTHER DESIGNATION IS A #12 WIRE CIRCUIT
- FLEX
- TERMINAL CABINET
- PANEL BOARD - SEE SCHEDULE
- MOTOR/EXHAUST FAN - N.I.E.S. - CONNECT AS REQUIRED
- GFCI RECEPTACLE +15" A.F.F. FROM BOTTOM OF BOX U.O.N.
- JUNCTION BOX - 4 11/16" x 2 1/8" SQUARE OR SMALL

DESIGNED: KLP	DATE: 4/22/2021	RECORD DRAWING: RESIDENT ENGINEER	SCALE: AS NOTED	PROJECT: CSA 30 EL PORVENIR & CSA 32 CANTUA CREEK WATER SYSTEM IMPROVEMENTS	DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: FR	DATE: 4/22/2021			FRESNO COUNTY	ELECTRICAL LEGEND - ABBREVIATIONS - FIXTURE SCHEDULE - COMPLIANCE AND GENERAL NOTES
CHECKED: KLP	DATE: 4/22/2021			CA.	ELECTRICAL
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.					DRAWING NO. SHEET NO. E0.0-1 TOTAL

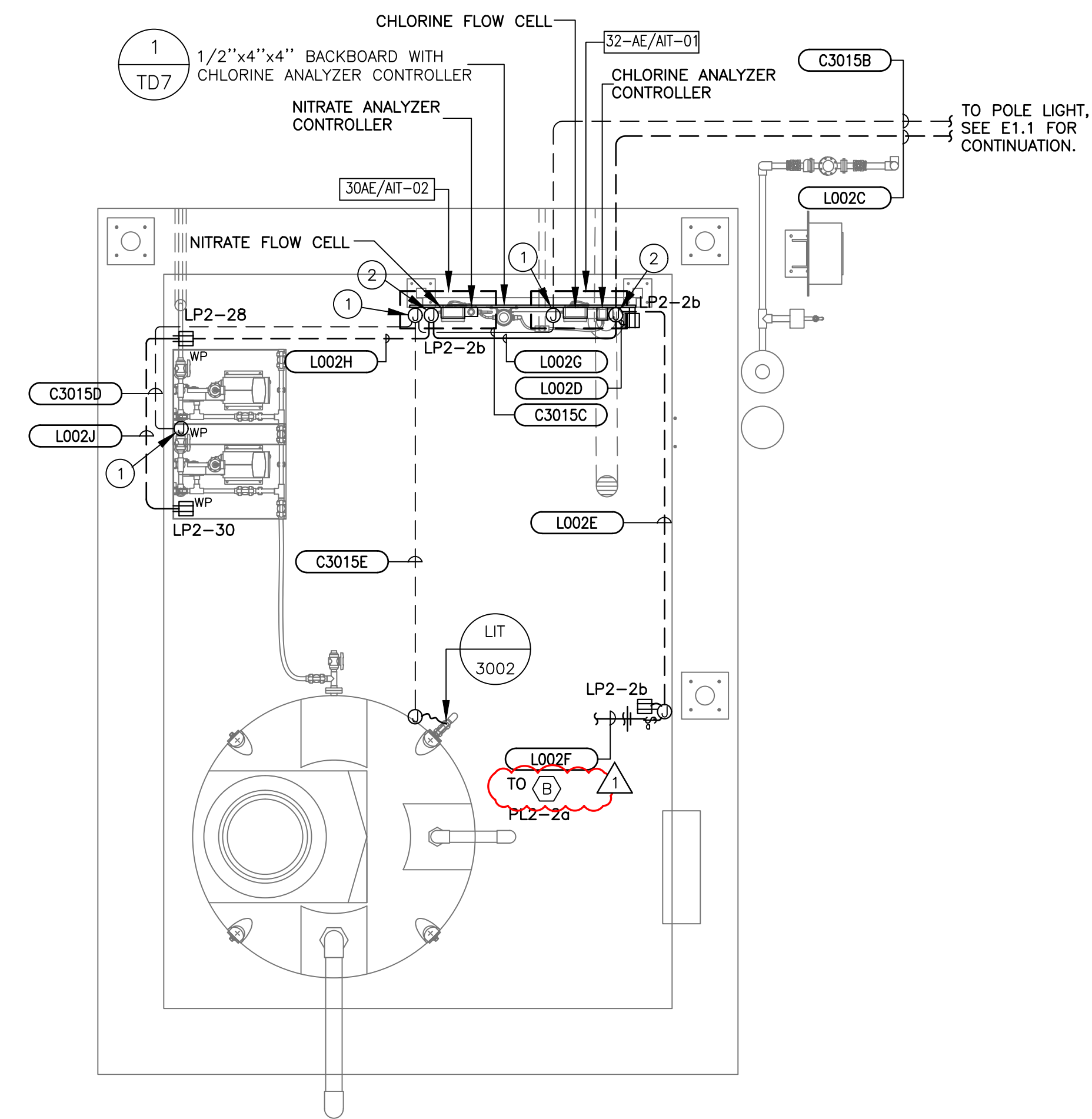


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2 CSA 30 BOOSTER PUMP STATION ELECTRICAL PLAN
SCALE: 3/8"=1'-0"

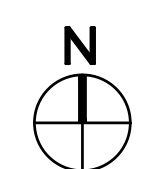


SEE CIVIL DWG. D9 TREATMENT WATER ANALYZER PANEL DETAILS FOR ADDITIONAL INFORMATION PRIOR TO ROUGH-IN.

SYMBOL ## PLAN NOTES:

1. SIGNAL J BOX FOR ROUTING OF COMM/SIGNAL/CONTROL CABLING TO CHEMICAL FEED EQUIPMENT & DEVICES. COORDINATE EXACT LOCATION MOUNTING HEIGHT & REQMTS. w/OWNER PRIOR TO ROUGH-IN.
2. POWER J BOX FOR ROUTING OF 120V. CIRCUIT TO CHEMICAL FEED DEVICES. COORDINATE EXACT LOCATION MOUNTING HEIGHT & REQMTS. w/OWNER PRIOR TO ROUGH-IN.

1 CHEMICAL STORAGE ENCLOSURE ELECTRICAL PLAN
SCALE: 1/2"=1'-0"



PEZZONI ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
1150 9th Street, Suite #1415 Modesto, CA 95354
PHONE: 209-554-4602
HTTP://WWW.PEZZONICOR.COM

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DESIGNED:	DATE	RECORD DRAWING		SCALE	PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING	
KLP	4/22/2021	RESIDENT ENGINEER	DATE		CSA 30 EL PORVENIR & CSA 32 CANTUA CREEK WATER SYSTEM IMPROVEMENTS		CSA 30 PORVENIR & CSA 32 CANTUA CREEK CSA 30 ELECTRICAL DETAILS	
DRAWN:	4/22/2021				FRESNO COUNTY		DRAWING NO.	
CHECKED:	4/22/2021				CA.		SHEET NO. E1.3-1	
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.					SUPERVISING ENGINEER		TOTAL	



