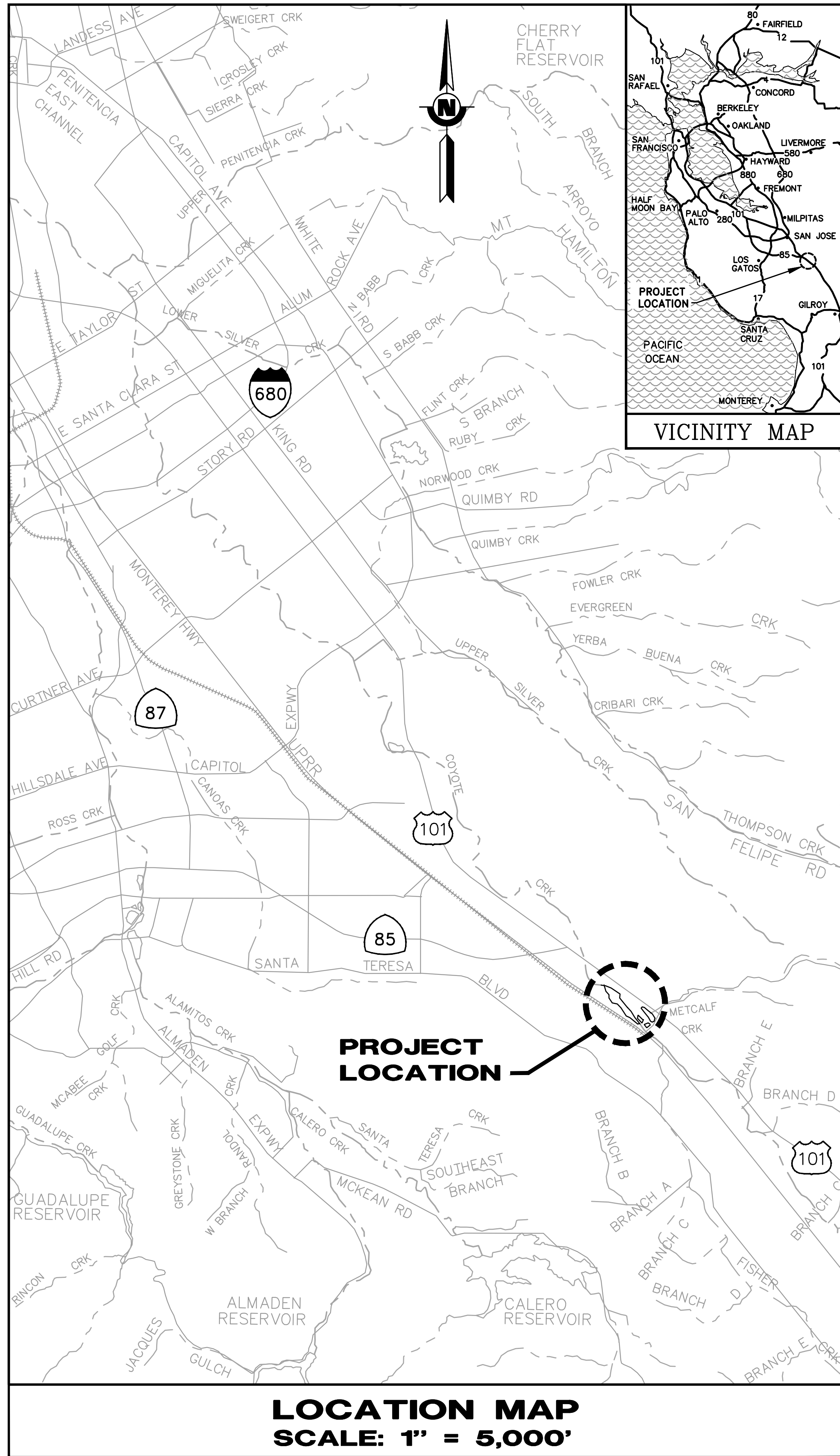


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2

DOCUMENT NUMBER: C00-G-9248-75843



MAP AND CONSTRUCTION PLAN

FOR

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

SANTA CLARA VALLEY WATER DISTRICT



PREPARED BY:

Youhan Lee

YOUHAN LEE, P.E.
ASSOCIATE ENGINEER
DESIGN AND CONSTRUCTION UNIT 2
WATERSHEDS DESIGN AND CONSTRUCTION DIVISION

DATE



APPROVED BY:

Karl Neuman

KARL NEUMAN, P.E.
ENGINEERING UNIT MANAGER
DESIGN AND CONSTRUCTION UNIT 2
WATERSHEDS DESIGN AND CONSTRUCTION DIVISION

DATE

ACCEPTED BY:

Bhavani Yerrapotu

BHAVANI YERRAPOTU, P.E.
DEPUTY OPERATING OFFICER
WATERSHEDS DESIGN AND CONSTRUCTION DIVISION

DATE

CONTRACT NUMBER

C0693

PROJECT NUMBER

91864009

SHEET CODE:

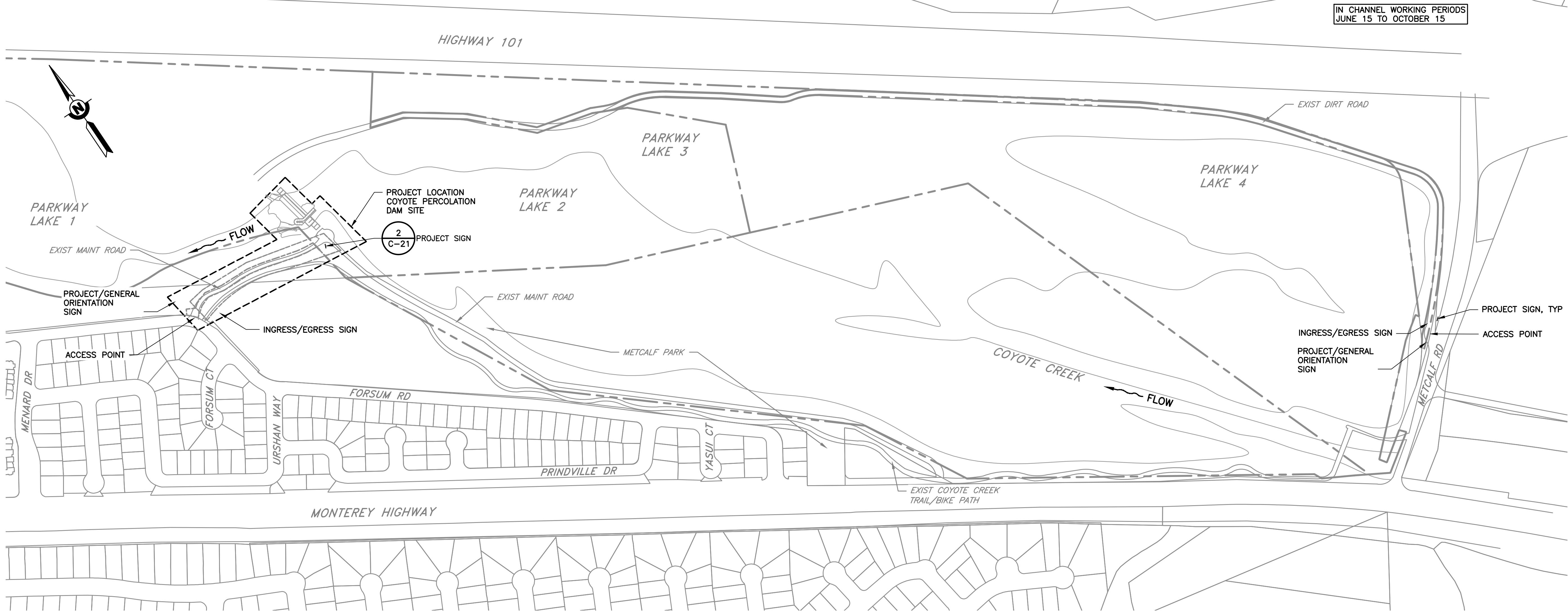
G-01

SHEET NUMBER: 01
TOTAL SHEETS: 106

Attachment 3
1 of 106

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DOCUMENT NUMBER: C00-G-9248-75844



SITE MAP
SCALE: 1" = 200'

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

DATE	ENGINEERING CERTIFICATION
JAN 2023	
DESIGN	
Y. LEE	
DRAWN	
T. EVANS	
CHECKED	
K. NEUMAN	



SANTA CLARA VALLEY WATER DISTRICT

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

SITE MAP

SCALE
AS SHOWN

VERIFY SCALES

0 1"

BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER
91864009

SHEET CODE:
G-02

SHEET NUMBER:
2

4

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FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\ SHEETS\G-03.dwg

2

DOCUMENT NUMBER: C00-G-9248-75845

GENERAL NOTES:

- ALL EXISTING FACILITIES, STRUCTURES, TREES, FENCES, LANDSCAPING, ETC., ARE TO REMAIN. ONLY THOSE SPECIFICALLY DESIGNATED FOR REMOVAL AS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER SHALL BE REMOVED.
- THE INDICATED LOCATIONS OF EXISTING UNDERGROUND FACILITIES ARE APPROXIMATE ONLY. CONTRACTOR SHALL POTHOLE AND FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS.
- PRIOR TO PERFORMING ANY WORK IN THE VICINITY OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY AND VERIFY THEIR LOCATION AND DEPTH AND TAKE PROPER PRECAUTIONS TO AVOID ANY DAMAGE TO THEM. CALL U.S.A. (UNDERGROUND SERVICE ALERT) 48 HOURS PRIOR TO COMMENCING WORK AT (800) 227-2600 FOR LOCATION. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL SECURE THE SITE AND INSTALL TEMPORARY CONSTRUCTION FENCES AND OTHER WARNING SIGNS OR DEVICES AS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE APPROPRIATE LOCATIONS OF ALL TEMPORARY CONSTRUCTION PROTECTION DEVICES.
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- ALL TRAFFIC CONTROL DEVICES SUCH AS CONSTRUCTION SIGNS, BARRICADES, LIGHTS AND DELINEATORS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST STATE OF CALIFORNIA, DEPT. OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE MUTCD CALIFORNIA SUPPLEMENT. ALL CONE SPACING AND TAPER SPACING AND SIGN SPACING SHALL BE IN ACCORDANCE WITH THE MUTCD CALIFORNIA SUPPLEMENT.
- SPECIAL SIGNS ARE IN 4" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND. MOUNT SPECIAL SIGNS ON TYPE II BARRICADE.
- FIRE HYDRANTS SHALL NOT BE OBSTRUCTED BY FENCE, EQUIPMENT, K-RAIL, OR TRAFFIC CONTROL DEVICES OF ANY KIND.
- MAINTAIN 12' MINIMUM TRAFFIC LANES UNLESS OTHERWISE SPECIFIED OR APPROVED BY THE CITY OF SAN JOSE.
- KEEP DRIVEWAYS OPEN AT ALL TIMES.
- CONTRACTOR SHALL NOT STORE, OPERATE OR HANDLE ANY EQUIPMENT OR MATERIALS WITHIN PRIVATE OR PUBLIC OWNED AREAS INCLUDING CITY STREETS UNLESS CONTRACTOR OBTAINS PRIOR APPROVAL FROM DESIGNATED OWNER(S).
- PLATE OR BACKFILL HOLES AND EXCAVATIONS IN ROADWAYS AFTER WORK HOURS. STEEL PLATES TO BE COUNTERSUNK AND FLUSH WITH PAVEMENT. STEEL PLATE SHALL HAVE A NO-SKID SURFACE.
- CONTRACTOR SHALL PROVIDE CERTIFIED FLAGGERS WHEN OPERATING AND HAULING EQUIPMENT AND MATERIALS WITHIN CITY STREETS IMMEDIATELY ADJACENT TO THE PROJECT.
- REFER TO CITY OF SAN JOSE WEB SITE FOR APPROVED TRUCK ROUTE MAP. CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL FROM THE CITY OF SAN JOSE FOR THEIR PROPOSED TRUCK ROUTE/HAUL PLAN FOR THE PROJECT. CONTRACTOR SHALL OBTAIN A CITY OF SAN JOSE ENCROACHMENT PERMIT PRIOR TO STARTING WORK.
- PRIOR TO ACCESSING CITY STREETS FOR MOBILIZATION OF THE PROJECT, CONTRACTOR SHALL OBTAIN CITY ENCROACHMENT PERMIT AND SHALL COORDINATE WITH AND SUBMIT TO THE CITY A TRAFFIC CONTROL PLAN WHICH THE CITY MUST APPROVE WITH THEIR STAMPED CERTIFICATION.
- CONTRACTOR SHALL INSTALL DIVERSION SYSTEM PRIOR TO WORK IN THE CHANNEL.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE QUANTITIES OF ALL MATERIAL NEEDED.
- ALL GROUND ELEVATIONS ARE APPROXIMATE ONLY AND SHALL BE FIELD VERIFIED BY CONTRACTOR.
- ALL WORK BY CONTRACTOR SHALL BE RESTRICTED TO DESIGNATED LANDS OWNED BY THE DISTRICT FOR CONSTRUCTION OF THIS PROJECT AND IDENTIFIED EASEMENTS OR AGREEMENTS OBTAINED FOR THE PURPOSE OF THIS PROJECT.
- CONTRACTOR SHALL PROVIDE ADEQUATE DUST AND NOISE CONTROL AT ALL TIMES AS REQUIRED BY SPECIFICATIONS 18.05 AND 18.03.02. CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS DUE TO ANY VIOLATIONS.
- CONTRACTOR SHALL EXERCISE ALL NECESSARY CAUTION TO AVOID DAMAGE TO ANY EXISTING FEATURES, INCLUDING BUT NOT LIMITED TO, SURVEY MONUMENTS, TREES, LANDSCAPING, SIGNS, FENCES, BOLLARDS, SURFACE IMPROVEMENTS, EXISTING FACILITIES, EXISTING DRAINAGE STRUCTURES, EXISTING STRUCTURES, UTILITY BOXES, SUBPANNEL OR UNDERGROUND ELECTRIC, TELEPHONE, AND CABLE, STORM DRAIN, AND OTHER UNDERGROUND UTILITIES, WHICH ARE TO REMAIN IN PLACE, AT NO ADDITIONAL COST TO THE DISTRICT.
- ENGINEER WILL OBSERVE ALL WORK FOR CONFORMANCE TO THE PLANS AND SPECIFICATIONS. CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS PRIOR TO SHEET PILE CONSTRUCTION, TESTING OF RUBBER DAM, AND TESTING OF PIPELINES.
- CONTRACTOR SHALL RESTORE OR REPLACE ANY DAMAGED SURVEY MONUMENTS RESULTING FROM THEIR OPERATION AND SHALL BEAR ALL COSTS OF SUCH REPLACEMENT, INCLUDING COST OF FILING A RECORD OF SURVEY WITH SANTA CLARA COUNTY. REPLACEMENT SHALL BE COMPLETED BY A LAND SURVEYOR REGISTERED BY THE STATE OF CALIFORNIA.
- CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING, SHORING, BRACING, OR EQUIVALENT METHOD FOR THE PROTECTION OF LIFE OR LIMB, WHICH SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA AND ALL OSHA REQUIREMENTS. CONTRACTOR IS REQUIRED TO PREPARE AND SUBMIT A SHORING AND BRACING DESIGN STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN CALIFORNIA. REFER TO SPECIFICATION 24.11 FOR ALL REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING GRADING AND DRIVEWAYS WITH A SMOOTH TRANSITION. LOW SPOTS CREATED FROM CONSTRUCTION SHALL BE GRADED TO DRAIN TO EXISTING DRAINAGE AREA.
- CONTROL OF WATER MAY BE REQUIRED FOR ALL EXCAVATIONS. REFER TO GEOTECHNICAL REPORT, SPECIFICATIONS, AND DRAWINGS FOR ALL REQUIREMENTS, DISPOSAL AREAS, AND WATER QUALITY INFORMATION.
- IF NESTING BIRDS ARE FOUND, A BUFFER SHALL BE ESTABLISHED AND MAINTAINED AROUND THE NEST UNTIL THE YOUNG HAVE FLEDGED. SEE SPECIFICATION 19.08.03 FOR ESTABLISHING APPROPRIATE BUFFER. THE QUALIFIED BIOLOGIST MAY IDENTIFY AN ALTERNATE BUFFER BASED ON A SITE-SPECIFIC EVALUATION. NO WORK WITHIN THE BUFFER SHALL OCCUR WITHOUT WRITTEN APPROVAL FROM THE QUALIFIED BIOLOGIST FOR AS LONG AS THE NEST IS ACTIVE.
- CONTRACTOR SHALL PROVIDE VIBRATION MONITORING AND CONTROL CONSTRUCTION RELATED VIBRATIONS AS REQUIRED BY SPECIFICATION 18.03.03.
- IT IS UNACCEPTABLE TO IDLE DELIVERY TRUCKS FOR ANY REASON. REFER TO SPECIFICATION 18.08.01.
- FULL COMPENSATION FOR COMPLYING WITH THESE NOTES AND OTHER NOTES ON THESE PLANS SHALL BE CONSIDERED AS INCLUDED IN THE PRICE PAID FOR VARIOUS CONTRACT ITEMS OR WORK, AND NO ADDITIONAL ALLOWANCE WILL BE MADE THEREFORE.
- THE CITY'S PUBLIC WORKS INSPECTOR SHALL BE NOTIFIED A MINIMUM OF 48-HOURS PRIOR TO ANY WORK OR INSPECTION IN CITY'S RIGHT-OF-WAY, UTILITIES AND EASEMENTS.
- CONTRACTOR SHALL COMPLY WITH THE CITY'S CONSTRUCTION NOISE ORDINANCE. WORK HOURS ARE BETWEEN 7AM TO 7 PM AND INSPECTION WORK HOURS ARE BETWEEN 7AM TO 4PM.
- CONTRACTOR SHALL POTHOLE ALL UTILITIES PRIOR TO CONSTRUCTION AND SUBMIT INFORMATION TO THE CITY FOR REVIEW.
- CONTRACTOR SHALL USE A STREET SWEEPER TO CLEAN CITY'S STREET TO REMOVE SEDIMENT TRACKING FROM SCVWD CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO CITY INFRASTRUCTURE AND SHALL REPAIR AND/OR REPLACE AT THE CONTRACTOR'S OWN EXPENSE TO THE SATISFACTION OF THE CITY ENGINEER.
- CONTRACTOR SHALL ENSURE THAT ALL THE WORK IS IN COMPLIANCE WITH THE AMERICANS WITH DISABILITY ACT (ADA).
- ALL EXISTING AND PROPOSED UTILITY BOXES MUST BE ADJUSTED TO GRADE.
- ALL USA MARKINGS FROM THE PROJECT SHALL BE COMPLETELY REMOVED AT THE END OF CONSTRUCTION.
- IF THERE IS NEED FOR CONSTRUCTION WATER, CONTRACTOR SHALL APPLY FOR A CITY CONSTRUCTION RECYCLED OR POTABLE WATER METER AT THE CITY HALL PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL NOT DISCHARGE TO THE CITY'S SANITARY SEWER SYSTEM WITHOUT PRIOR APPROVAL FROM THE CITY. A DISCHARGE PERMIT IS REQUIRED FROM THE CITY OF SAN JOSE ENVIRONMENTAL SERVICES DEPARTMENT.
- CONTRACTOR SHALL NOTIFY CITY OF SAN JOSE POLICE AND FIRE DEPARTMENTS 5 DAYS AND 48-HOURS PRIOR TO PLANNED CONSTRUCTION ACTIVITIES.

DESIGN NOTES:

- DISCHARGE CRITERIA:
 - DESIGN FLOWS: 450 TO 1,400 CFS
- MANNINGS ROUGHNESS COEFFICIENT (N) IS:
 - MANNING'S N TABLE

CATEGORY	VALUE
GRAVEL CHANNEL BOTTOM	0.03
CONCRETE	0.015
ROCK SLOPE PROTECTION	0.058-0.19
VEGETATION	0.04-0.09

- SURVEY DATA:

HORIZONTAL DATUM: CALIFORNIA COORDINATE SYSTEM OF 1983 ZONE III, EPOCH 2010.00, CCS83 (2011).

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 88 (NAVD88). SCVWD VERTICAL EPOCH 2017.20, GEOID 12B.

UNITS OF MEASURE: U.S. SURVEY FEET.

SURVEY CONTROL POINTS: SEE SURVEY CONTROL POINTS TABLE ON SHEET V-04.
- SEE SHEET V-03 FOR CONTROL LINE LAYOUT AND SHEET V-04 FOR CONTROL LINE SURVEY CONTROL DATA.

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION
					JAN 2023	
					DESIGN	
					Y. LEE	
					DRAWN	
					T. EVANS	
					CHECKED	
					K. NEUMAN	PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT DESIGN NOTES AND GENERAL NOTES	SCALE AS SHOWN VERIFY SCALES  0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91864009 SHEET CODE: G-03 SHEET NUMBER: 3
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DRAWING INDEX		DRAWING INDEX								
SHEET CODE	DESCRIPTION	SHEET NO.	SHEET CODE	DESCRIPTION	SHEET NO.					
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G-05	ABBREVIATIONS AND LEGENDS	5	E-05	CONTROL BUILDING ELECTRICAL PLAN	68					
G-06	CREEK DEWATERING AND DIVERSION PLAN	6	E-06	CONTROL BUILDING ELECTRICAL PLAN – ENLARGED	69					
G-07	TYPICAL COFFERDAM SECTION	7	E-07	ELECTRICAL DETAILS, CONDUIT INSTALLATION & UNDERGROUND DETAILS	70					
			E-08	ELECTRICAL DETAILS, MOUNTING, CONNECTION AND LABELING DETAILS	71					
			E-09	CONDUIT, WIRE, AND LIGHTING SCHEDULE	72					
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D-03	TREE AND STUMP REMOVAL DATA	15	I-06	*CPD CONTROL PANEL PLC DETAIL LAYOUT & CABLE CONNECTIONS	78					
D-04	TREE AND STUMP REMOVAL TABLE	16	I-07	*CPD CONTROL PANEL 120 VAC CONTROL WIRING	79					
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S-18	CONTROL BUILDING TYPICAL SECTIONS AND DETAILS 1 OF 3	60								
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S-20	CONTROL BUILDING TYPICAL SECTIONS AND DETAILS 3 OF 3	62								
A-01	CONTROL BUILDING ARCHITECTURAL DETAILS	63								
REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
				* SHEET REMOVED FROM BID SET. SHEET TO BE PROVIDED AFTER CONTRACT IS AWARDED. THE CONTENTS OF THE SHEET WILL NOT IMPACT THE SCOPE OF WORK.	JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
					DESIGN			DRAWING INDEX	VERIFY SCALES	SHEET CODE:
					Y. LEE				0 1"	G-04
					DRAWN				BAR IS ONE INCH ON ORIGINAL DRAWING	SHEET NUMBER:
					T. EVANS				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	4
					CHECKED					
					K. NEUMAN	PROJECT ENGINEER	DATE			

A

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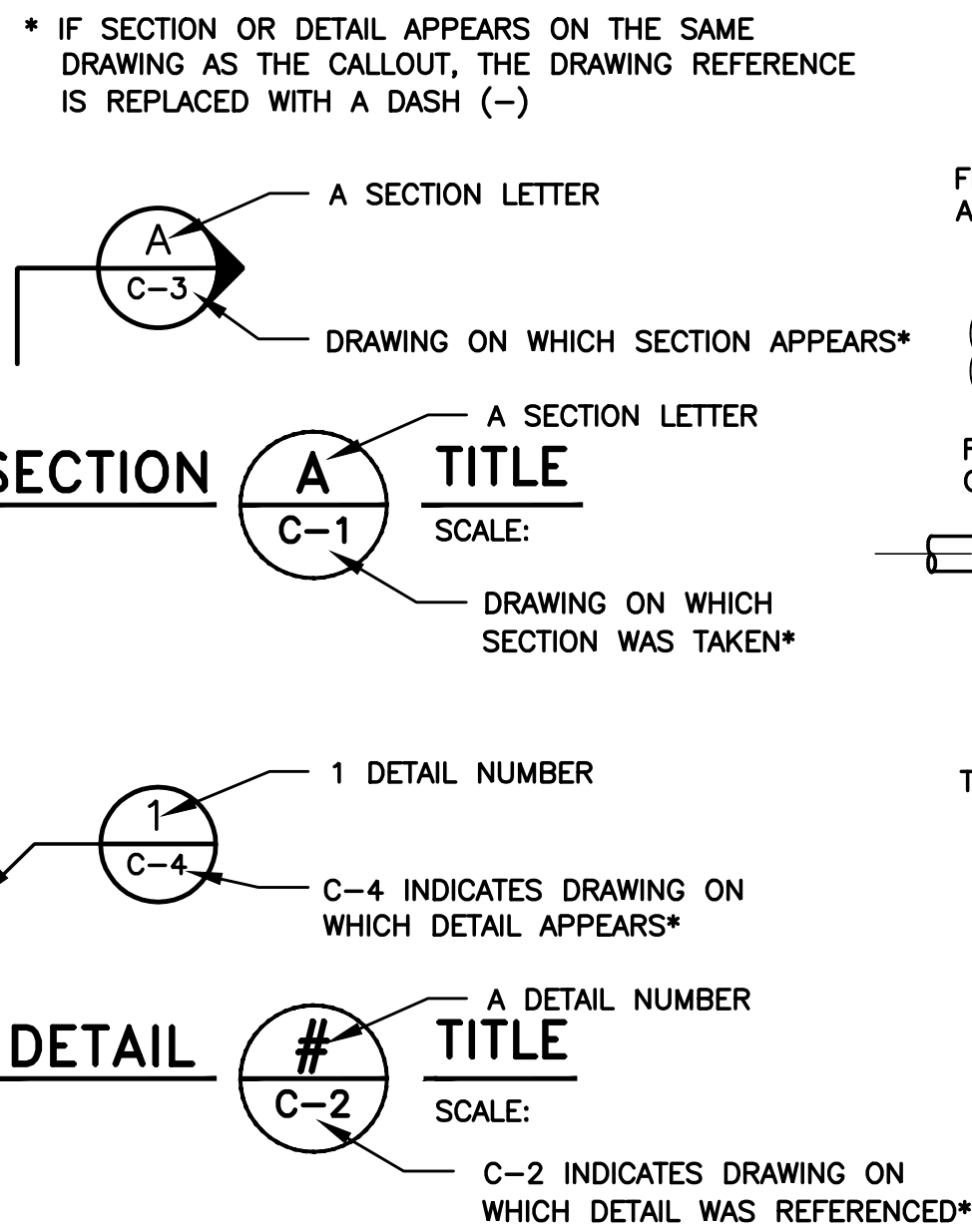
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4 of 106

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DOCUMENT NUMBER: C00-G-9248-75847

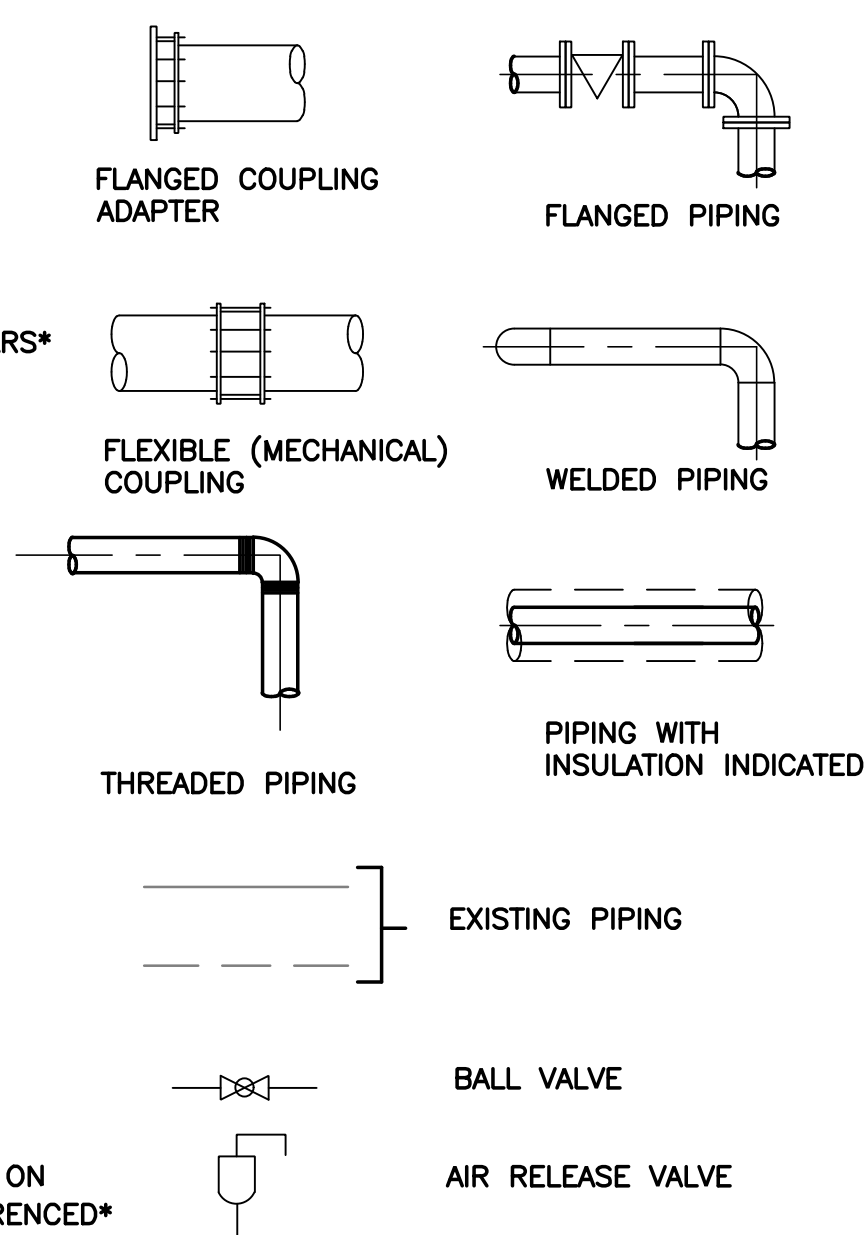
ABBREVIATIONS

ABM	- AIR BLOWN MORTAR	JB	- JOINT TRENCH
ABS	- ACRYLONITRILE-BUTADIENE-STYRENE	KV	- KILO VOLT
AC	- ASPHALT CONCRETE	LB	- CONDUIT FITTING ELBOW
ACP	- ASBESTOS CEMENT PIPE	LG	- LONG
AISI	- AMERICAN IRON & STEEL INSTITUTE	LLV	- LONG LEG VERTICAL
ALIGN	- ALIGNMENT	LT	- LEFT
AMP	- AMPERES	MAINT	- MAINTENANCE
ANSI	- AMERICAN NATIONAL STANDARDS INSTITUTE	MAX	- MAXIMUM
APPROX	- APPROXIMATE	MCD	- MULTIPLE CONDUITS
ARV	- AIR RELEASE VALVE	MCI	- MCI TELECOMMUNICATION CORP.
ASA	- AMERICAN STANDARD ASSOCIATION	MH	- MANHOLE
ASTM	- AMERICAN SOCIETY FOR TESTING MATERIALS	MIN	- MINIMUM
AWG	- AMERICAN WIRE GAGE	MON	- MONUMENT
AWWA	- AMERICAN WATER WORKS ASSOCIATION	MW	- MONITORING WELL
BC	- BEGIN CURVE	N	- NITROGEN
BM	- BENCH MARK	N/A	- NOT APPLICABLE
BMP	- BEST MANAGEMENT PRACTICE	NE	- NORTHEAST
BOP	- BOTTOM OF POOL	NEMA	- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BT	- BACKHOE TRENCH	NO	- NUMBER
BTM	- BOTTOM	NTS	- NOT TO SCALE
BW	- BOTH WAYS	NW	- NORTHWEST
CB	- CATCH BASIN (INLET)	NZ	- NOZZLE
CCCL	- CEMENT MORTAR COATED & LINED STEEL PIPE	OC	- ON CENTER
CCEM	- CEMENT CONDUIT	OD	- OUTSIDE DIAMETER
CCTL	- CORROSION CONTROL TEST LEADS	OF	- OUTSIDE FACE
CCP	- CONCRETE CYLINDER PIPE	OH	- OVERHEAD
CFM	- CUBIC FEET PER MINUTE	OIT	- OPERATOR INTERFACE TERMINALS
CI	- CAST IRON	OW	- OBSERVATION WELL
CIP	- CAST IRON PIPE	P	- PROPERTY LINE
CJ	- CONSTRUCTION JOINT	PCC	- PORTLAND CEMENT CONCRETE
CL	- CLEARANCE	PCCP	- PRESTRESSED CONCRETE CYLINDER PIPE
CLR	- CLEAR	PE	- PLAIN END
CMC	- CEMENT MORTAR COAT	PG&E	- PACIFIC GAS AND ELECTRIC
CML	- CEMENT MORTAR LINE	PI	- POINT OF INTERSECTION
CMP	- CORRUGATED METAL PIPE	PK	- PARKER-KALON SURVEY NAIL
CO	- CLEAN OUT	PL	- PLASTIC LINE
CONC	- CONCRETE	POT	- POINT ON TANGENT
CONT	- CONTINUOUS	PP	- POWER POLE
CP	- CEMENT PIPE	PRC	- POINT OF REVERSE CURVE
CPC	- PLASTIC CONDUIT	PSI	- POUND PER SQUARE INCH
CSP	- CORRUGATED STEEL PIPE	PT&T	- PACIFIC TELEPHONE AND TELEGRAPH
CTP	- CABLE TELEVISION POLE	PUE	- PUBLIC UTILITY EASEMENT
CTV	- CABLE TV	PV	- PRECAST VAULT
CU FT	- CUBIC FEET	PVC	- POLYVINYL CHLORIDE
CYL	- CYLINDER	PVMT	- PAVEMENT
CIPP	- CAST-IN-PLACE PIPE	PW	- PUMPING WELL
DET	- DETAIL	R	- RADIUS
DH	- DRILL HOLES	RCB	- REINFORCED CONCRETE BOX
DIA	- DIAMETER	RCP	- REINFORCED CONCRETE PIPE
DICL	- DUCTILE IRON CEMENT LINED	RE	- REFERENCE ELECTRODE
DIP	- DUCTILE IRON PIPE	REBAR	- REINFORCING BAR
DPDT	- DOUBLE POLE DOUBLE THROW	REINF	- REINFORCED
D/S	- DOWNSTREAM	REQ'D	- REQUIRED
DWR	- DEPARTMENT OF WATER RESOURCES	RR	- RAILROAD
EC	- END CURVE	RT	- RIGHT
EL	- ELEVATION	RTU	- REMOTE TERMINAL UNIT
ELEC	- ELECTRICAL	R/W	- RIGHT OF WAY
ELEV	- ELEVATION	S	- SLOPE
EP	- EDGE OF PAVEMENT	SCHED	- SCHEDULE
EXIST	- EXISTING	SCVWD	- SANTA CLARA VALLEY WATER DISTRICT
FF	- FULL FORCE	SD	- STORM DRAIN
FH	- FIRE HYDRANT	SE	- SOUTHEAST
FKCL	- FIBERGLASS-KRAFT WRAP CEMENT LINED	SHT	- SHEET
FLG	- FLANGE	SJMW	- SAN JOSE MUNICIPAL WATER
FP	- FEEDER PRESSURE	SJWC	- SAN JOSE WATER COMPANY
FT	- FEET	SOMCL	- STANDARD OIL MASTIC CEMENT LINED
GA	- GAGE	SPECS	- SPECIFICATIONS
GALV	- GALVANIZED	SPRR	- SOUTHERN PACIFIC RAILROAD
GFI	- GROUND FAULT INTERRUPTER	SQ	- SQUARE
HC	- HOUSE CONNECTION (SANITARY)	SS	- SANITARY SEWER
HMW/PE	- HIGH MOLECULAR WEIGHT POLYETHYLENE	SSTL	- STAINLESS STEEL
HORIZ	- HORIZONTAL	ST	- STREET
HP	- HORSEPOWER	STA	- STATION
ID	- INSIDE DIAMETER	STD	- STANDARD
IE	- INVERT ELEVATION	STL	- STEEL
IF	- INSIDE FACE	STRD	- STRANDED
IL	- INDUCTIVE LOOP	SW	- SOUTHWEST
IN	- INCH	SYM	- SYMMETRICAL
INSUL	- INSULATION		
INV	- INVERT		
IP	- IRON PIPE		
IPS	- IRON PIPE SIZE		

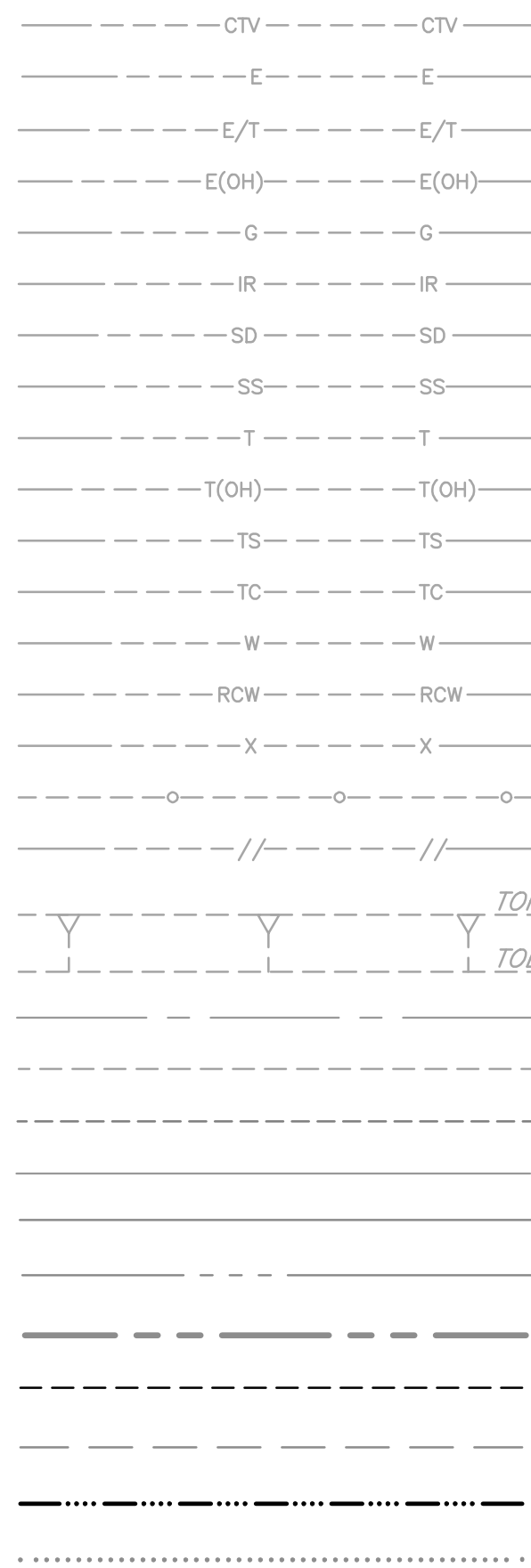
DETAIL AND SECTION DESIGNATION



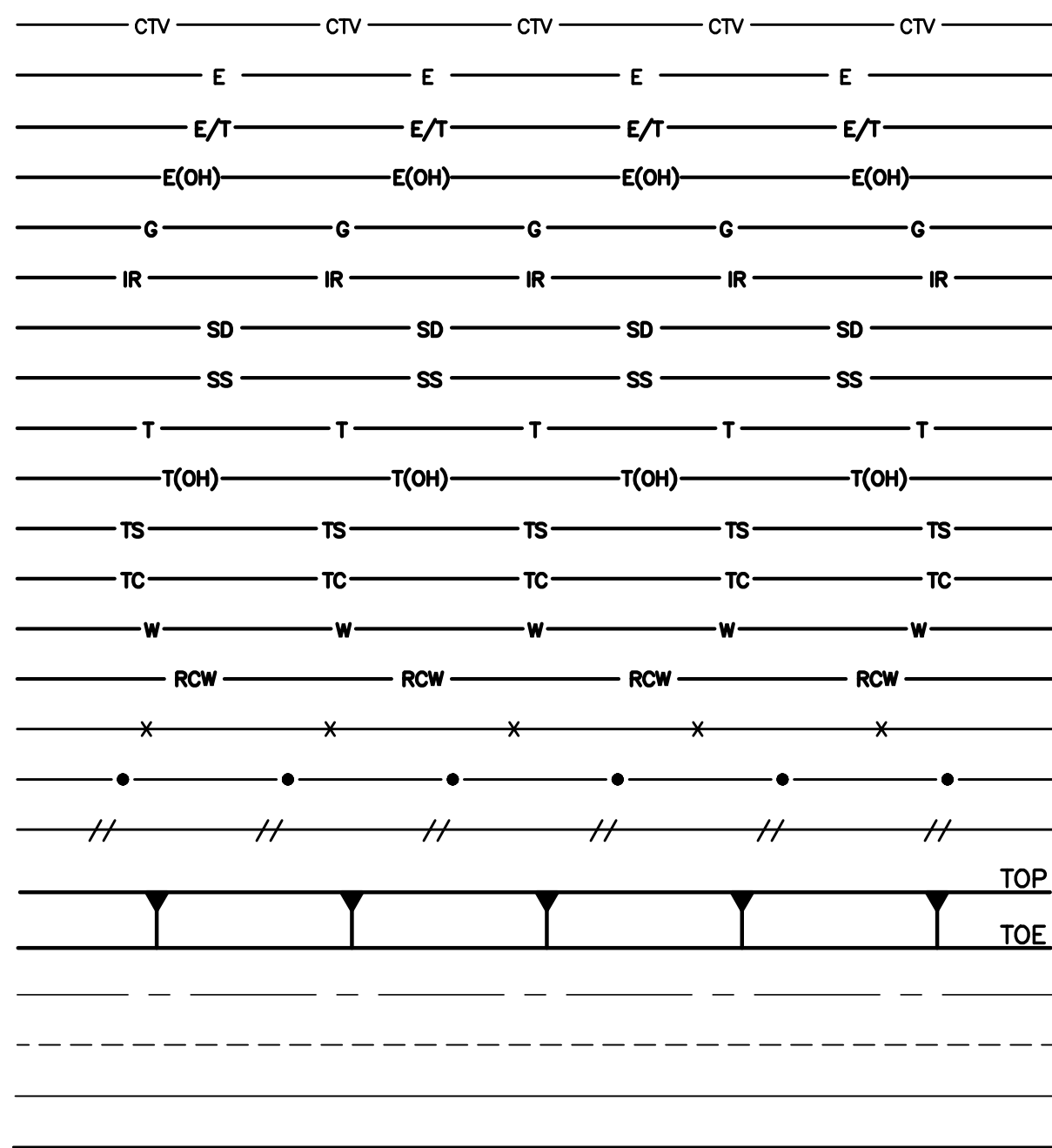
PIPE SYMBOLS



EXISTING



PROPOSED



LINE TYPE LEGEND

Q CABLE TELEVISION

Q ELECTRICAL LINE

Q ELECTRICAL & TELEPHONE LINE

Q ELECTRICAL LINE - OVERHEAD

Q GAS LINE

Q IRRIGATION LINE

Q STORM DRAIN LINE

Q SANITARY SEWER LINE

Q TELEPHONE LINE

Q TELEPHONE LINE - OVERHEAD

Q TRAFFIC SIGNAL LINE

Q TELEMTRY LINE

Q WATER LINE

Q RECYCLED WATER LINE

Q BARBED WIRE FENCE LINE

Q CHAIN LINK FENCE LINE

Q WOODEN FENCE LINE

SYMBOLS LEGEND

SURVEY

△ HORIZONTAL CONTROL

○ VERTICAL CONTROL

△ HORIZONTAL VERTICAL CONTROL

⊕ TEMPORARY BENCH MARK

TRAFFIC CONTROL

○ SIGN-1

○ SIGN-2

➡ BUS STOP

➡ TRAFFIC DIRECTION

● TRAFFIC CONE

➡ CONSTRUCTION SIGN

⚡ FLASHING ARROW SIGN

I TYPE I - TRAFFIC BARRICADE

II TYPE III - TRAFFIC BARRICADE

— K-RAIL BARRIER

MISCELLANEOUS

☼ ELECTROLIER

☼ ELECTROLIER

➡ GUY WIRE

☐ STORM DRAIN OUTFALL

EXISTING

EXISTING JOINT POLE

EXISTING POWER POLE

EXISTING TELEPHONE POLE

EXISTING ELECTRICAL MANHOLE

EXISTING ELECTRIC METER

EXISTING STORM DRAIN MANHOLE

EXISTING CATCH BASIN / SD INLET

EXISTING SANITARY CLEANOUT

EXISTING SANITARY MANHOLE

EXISTING TELEPHONE MANHOLE

EXISTING WATER VALVE

EXISTING WATER METER

EXISTING BLOWOFF

EXISTING FIRE HYDRANT

EXISTING GAS VALVE

EXISTING GAS METER

EXISTING DEEP ANODE BED

EXISTING REFERENCE ELECTRODE TEST STATION

EXISTING INSULATION JOINT

EXISTING PRECAST VAULT

EXISTING TELEMTRY CABLE PULLBOX

EXISTING VENTILATION STRUCTURE

EXISTING TREE

PROPOSED

PROPOSED JOINT POLE

PROPOSED POWER POLE

PROPOSED TELEPHONE POLE

PROPOSED ELECTRICAL MANHOLE

PROPOSED ELECTRIC METER

PROPOSED STORM DRAIN MANHOLE

PROPOSED CATCH BASIN / SD INLET

PROPOSED SANITARY CLEANOUT

PROPOSED SANITARY MANHOLE

PROPOSED TELEPHONE MANHOLE

PROPOSED WATER VALVE

PROPOSED WATER METER

PROPOSED BLOWOFF

PROPOSED FIRE HYDRANT

PROPOSED GAS VALVE

PROPOSED GAS METER

PROPOSED DEEP ANODE BED

PROPOSED REFERENCE ELECTRODE TEST STATION

PROPOSED INSULATION JOINT

PROPOSED PRECAST VAULT

PROPOSED TELEMTRY CABLE PULLBOX

PROPOSED VENTILATION STRUCTURE

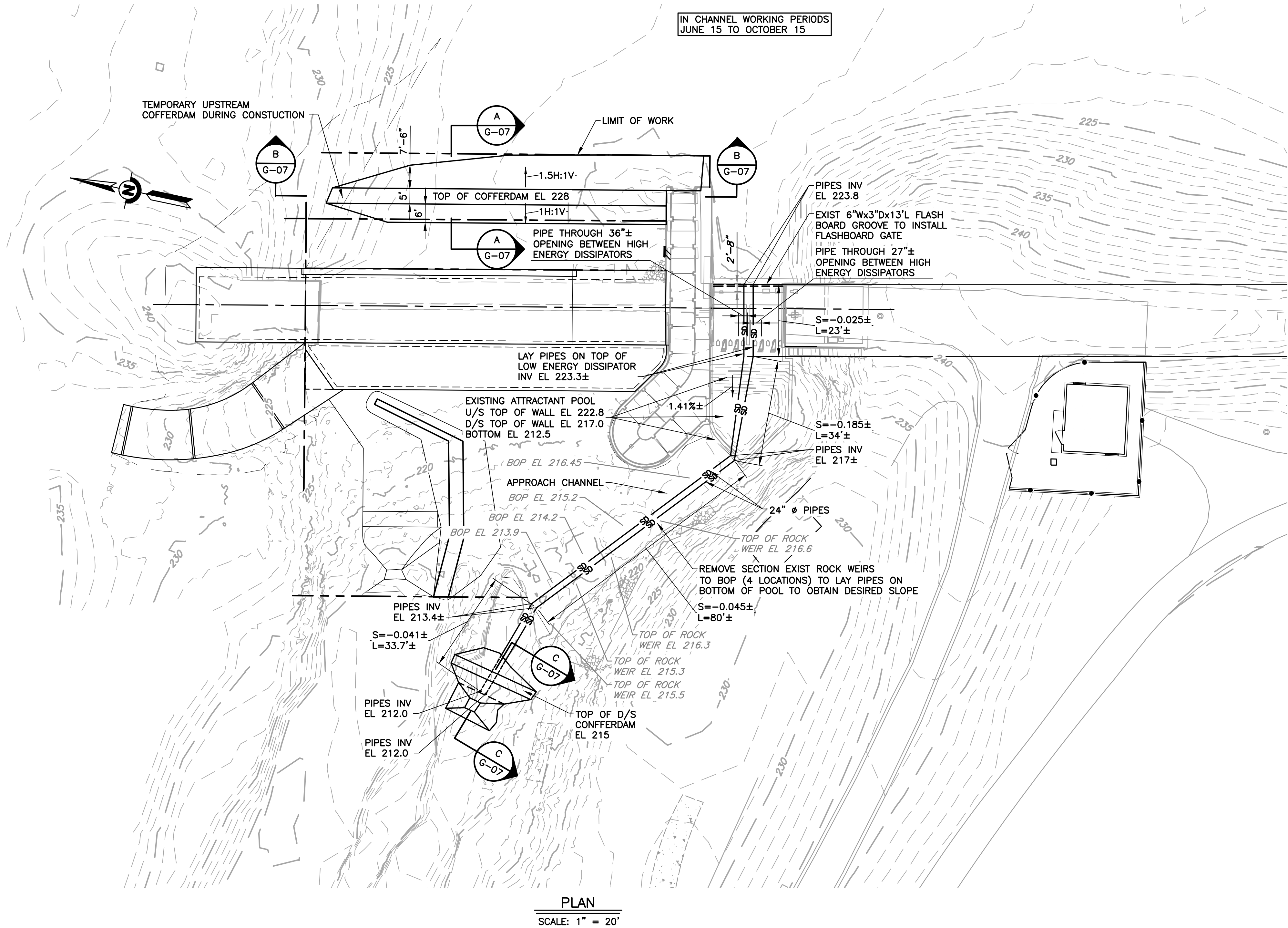
PROPOSED TREE

DATE JAN 2023	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN Y. LEE		
DRAWN T. EVANS		
CHECKED		
K. NEUMAN		
PROJECT ENGINEER	DATE	

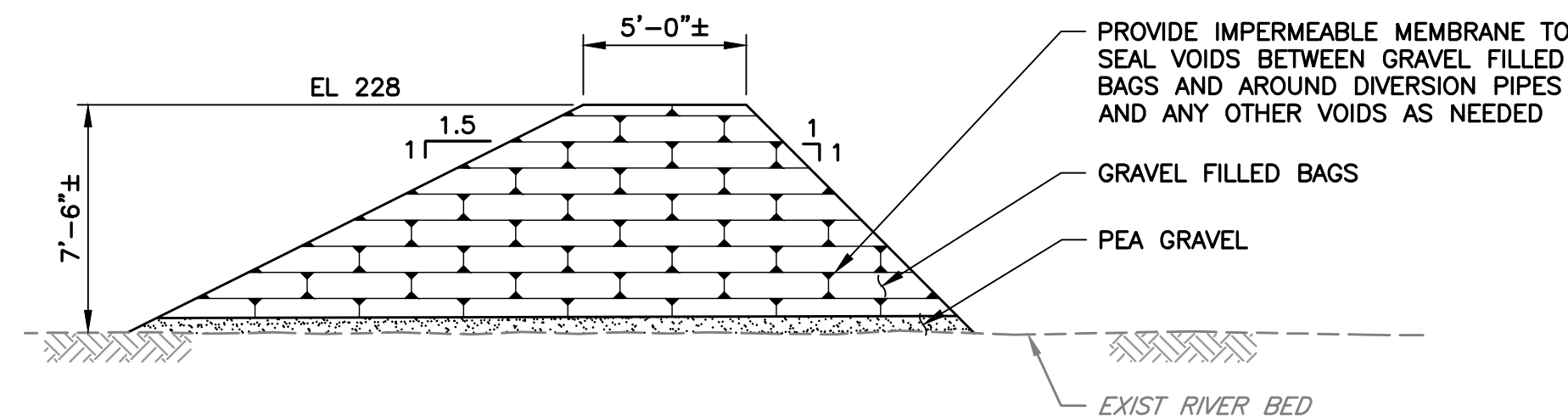
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ABBREVIATIONS AND LEGENDS		SHEET CODE: G-05
		SHEET NUMBER: 5

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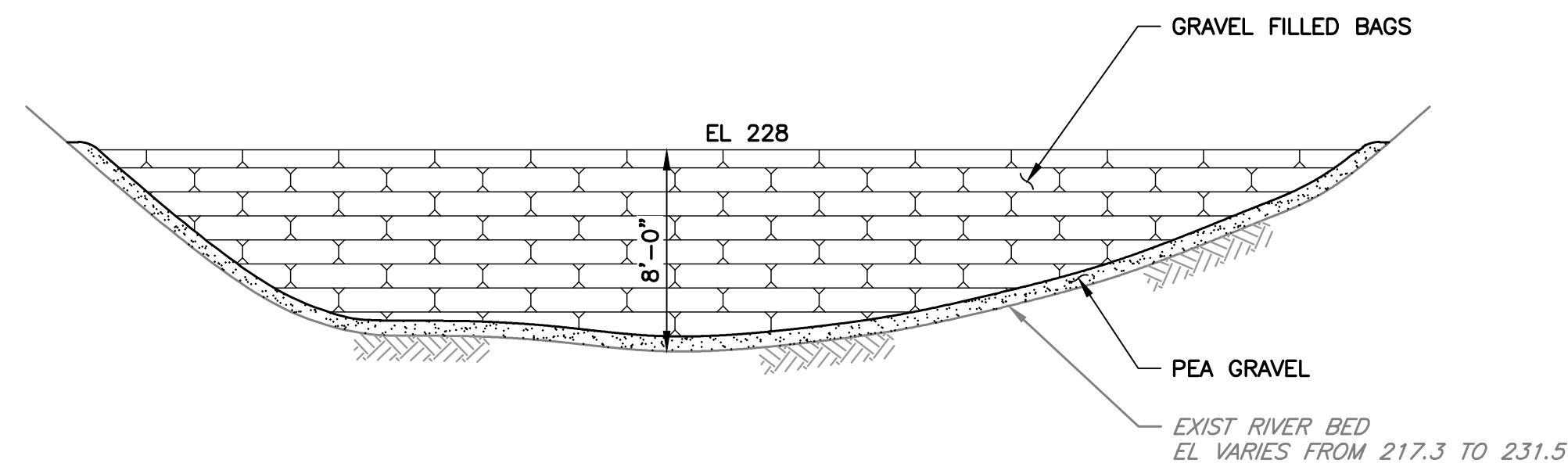
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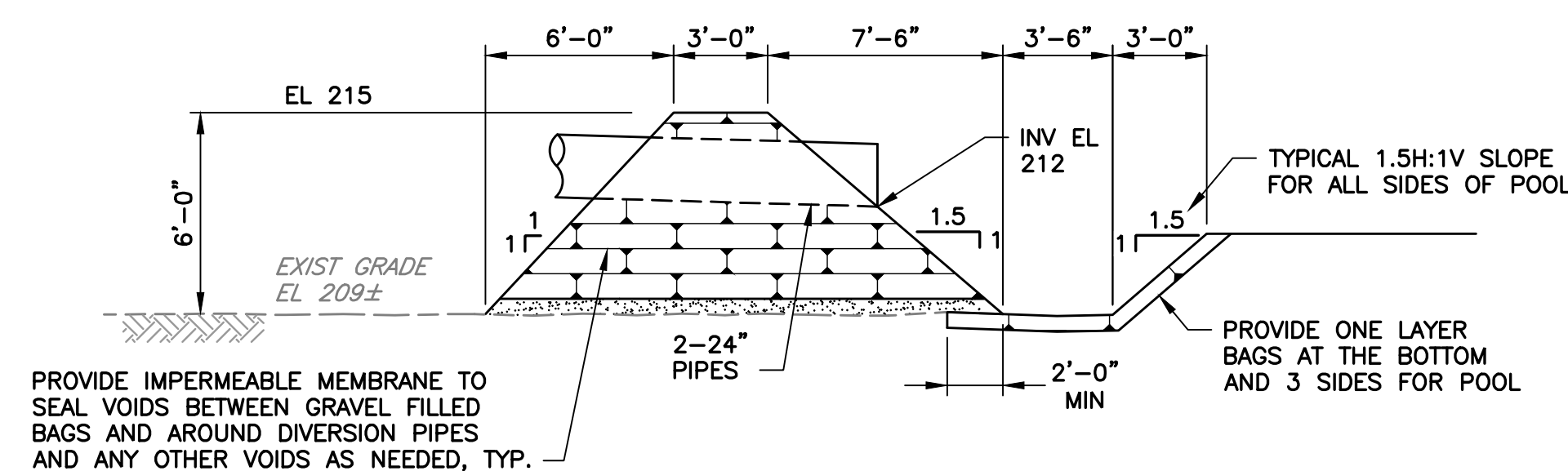
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					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT		91864009
					DESIGN Y. LEE			CREEK DEWATERING AND DIVERSION PLAN	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: G-06
					DRAWN T. EVANS					SHEET NUMBER: 6
					CHECKED K. NEUMAN	PROJECT ENGINEER	DATE			Attachment 3 6 of 106



SECTION **A** UPSTREAM COFFERDAM
G-06 SCALE: NTS



SECTION **B** COFFERDAM
G-06 SCALE: NTS

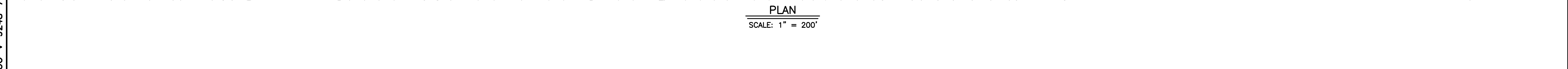


SECTION **C** DOWNSTREAM COFFERDAM
G-06 SCALE: NTS

NOTES:

1. THE TEMPORARY CREEK DIVERSION SYSTEM SHOWN IS SCHEMATIC. CONTRACTOR SHALL DESIGN HIS/HER OWN SYSTEM AND SHALL SUBMIT DRAWINGS FOR TEMPORARY CREEK DIVERSION SYSTEM AS PART OF CONTROL OF WATER PLAN. MANUFACTURED RUBBER DAM MAY BE USED IN LIEU OF STACKED INSTREAM GRAVEL BAGS. ANY FILL FOR IN-CHANNEL CONTRACTOR'S ACCESS RAMP SHALL CONSIST OF CLEAN RIVER RUN ALLUVIAL GRAVEL 1" TO 4" SIZE. WORK SHALL NOT START UNTIL THE TEMPORARY RIVER DIVERSION PLAN HAS BEEN APPROVED BY VALLEY WATER. GRAVEL BAGS SHALL BE FILLED WITH PEA GRAVEL.
2. ACTUAL LOCATION OF COFFERDAMS SHALL BE DETERMINED BY CONTRACTOR BASED ON CONTRACTOR'S SITE PREPARATION AND EARTHWORK PLAN, CONTROL OF WATER PLAN, BMP ACTION PLAN.
3. PLACE GRAVEL FILLED BAGS AS APPROVED BY VALLEY WATER TO OBTAIN WATER TIGHT COFFERDAM.
4. DEWATER WORK AREA AS NECESSARY USING PUMPS. PROVIDE PUMPING SYSTEM WITH SECONDARY CONTAMINATION PROTECTION TO PREVENT ANY POLLUTION IN THE CREEK. DIVERSION PIPES SHALL DRAIN BY GRAVITY. CONFORM TO REQUIREMENTS OF CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE PERMIT (SEE SPECIFICATIONS). CONTRACTOR SHALL COORDINATE WITH VALLEY WATER'S ECOLOGICAL UNIT PRIOR TO DEWATERING. CONTRACTOR'S BIOLOGIST SHALL BE RESPONSIBLE FOR THIS TASK - ALLOW 7 DAYS AND 3 DAYS RESPECTIVELY.
5. NOT USED.
6. PIPES SHALL BE SMOOTH PIPE AND MADE OF HIGH DENSITY POLYETHYLENE (HDPE).
7. THE DIVERSION LINES SHOWN ARE SCHEMATIC. CONTRACTOR SHALL BE RESPONSIBLE FOR PIPE INSTALLATION, RELOCATION, AND OPERATION DURING CONSTRUCTION IN THE CHANNEL. WORK SHALL INCLUDE BUT NOT LIMITED TO: PROTECT THE PIPE FROM CONSTRUCTION ACTIVITY, PROVIDE TEMPORARY BRIDGING OVER THE PIPES.
8. ALL DEWATERING FEATURES SHALL BE REMOVED AFTER ALL WORK IN THE CREEK IS COMPLETED.
9. IN ADDITION, ANY ACTIVITY THAT TEMPORARILY DIVERTS FLOW TO ANY SEGMENT OF THE STREAM CHANNEL SHALL INCLUDE THE FOLLOWING MEASURES:
 - A. BEFORE DIVERSION OF FLOW, DIVERSION PIPES AND ASSOCIATED INFRASTRUCTURE WILL BE IN PLACE SO THAT FLOW TO STREAM SEGMENTS DOWNSTREAM OF THE CONSTRUCTION SITE WILL NOT BE INTERRUPTED.
 - B. IN THE STREAM SEGMENT WHERE FLOW IS TEMPORARILY DIVERTED, FLOW WILL BE INCREMENTALLY DECREASED (I.E., APPROXIMATELY 50 PERCENT, 75 PERCENT, 90 PERCENT, 95 PERCENT, AND 100 PERCENT BLOCKAGE OF THE INITIAL STREAM FLOW) OVER A 4 HOUR PERIOD AT THE UPSTREAM BOUNDARY. THE INCREMENTAL REDUCTION IN FLOW WILL ALLOW FISH INHABITING THE AFFECTED SEGMENT THE OPPORTUNITY TO MOVE DOWNSTREAM. FLOW THROUGH DIVERSION PIPES AND ASSOCIATED INFRASTRUCTURE TO DOWNSTREAM SEGMENTS WOULD BE INCREASED IN CONCERT WITH THE BLOCKAGE.
 - C. ALL SCREENS USED ON EQUIPMENT MEANT TO DIVERT FLOWS MUST BE SCREENED IN ACCORDANCE WITH NMFS FISH SCREENING CRITERIA FOR ANADROMOUS SALMONIDS (AVAILABLE AT: [HTTPS://MEDIA.FISHERIES.NOAA.GOV/DAM-MIGRATION/SOUTHWEST_REGION_1997_FISH_SCREEN_DESIGN_CRITERIA.PDF](https://media.fisheries.noaa.gov/dam-migration/southwest_region_1997_fish_screen_design_criteria.pdf)) AND THE ADDENDUM FOR JUVENILE FISH SCREEN CRITERIA FOR PUMP INTAKES (AVAILABLE AT: [HTTPS://MEDIA.FISHERIES.NOAA.GOV/DAM-MIGRATION/FISH_SCREEN_CRITERIA_FOR_PUMPED_WATER_INTAKES.PDF#:~:TEXT=THE%20FOLLOWING%20CRITERIA%20SERVE%20AS%20AN%20ADDENDUM%20TO,AS%20DETERMINED%20BY%20FISHERIES%20AGENCIES%20WITH%20PROJECT%20JURISDICTION.](https://media.fisheries.noaa.gov/dam-migration/fish_screen_criteria_for_pumped_water_intakes.pdf#:~:text=the%20following%20criteria%20serve%20as%20an%20addendum%20to,as%20determined%20by%20fisheries%20agencies%20with%20project%20jurisdiction.))
10. DIVERTED WATER SHALL BE DISCHARGED ONTO ENERGY DISSIPATION DEVICES (E.G. ROCK RIPRAP, HAY BALES) TO PREVENT BED SCOUR AT THE DISCHARGE LOCATION.
11. ALL MATERIALS FOR THE TEMPORARY CREEK DIVERSION SYSTEM MUST BE REMOVED BY OCTOBER 15TH IN ACCORDANCE WITH THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE PERMIT.

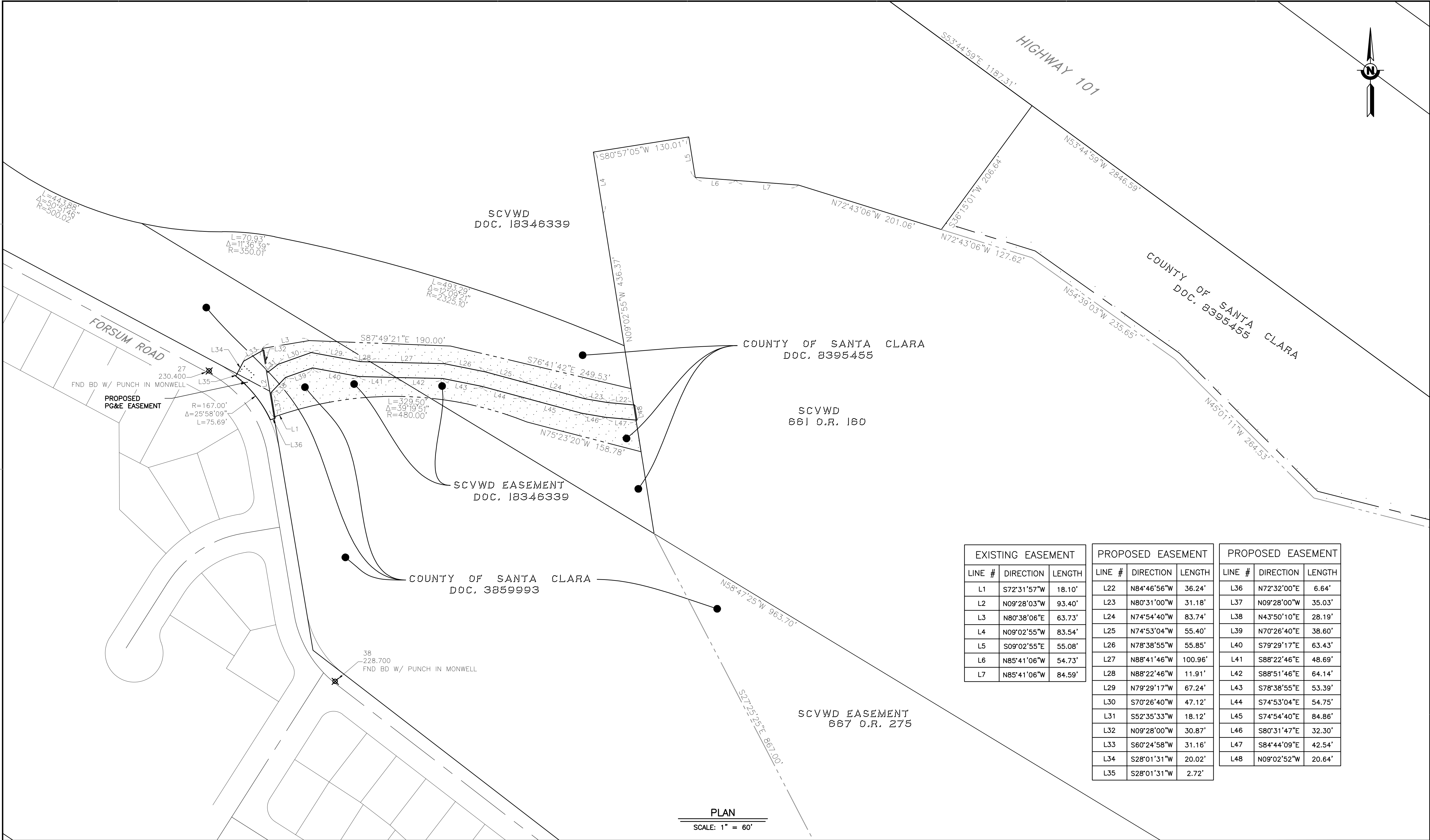
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					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
					DESIGN				VERIFY SCALES	SHEET CODE:
					Y. LEE				0 1"	G-07
					DRAWN					
					T. EVANS				BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	
					CHECKED	PROJECT ENGINEER	DATE			7
					K. NEUMAN					



REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
					DESIGN Y. LEE				VERIFY SCALES	SHEET CODE:
					DRAWN R. SAINI					V-01
					CHECKED K. NEUMAN				BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER: 8
					PROJECT ENGINEER	DATE		SURVEY CONTROL PLAN		

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DOCUMENT NUMBER: C00-V-9248-75851



EXISTING EASEMENT			PROPOSED EASEMENT			PROPOSED EASEMENT		
LINE #	DIRECTION	LENGTH	LINE #	DIRECTION	LENGTH	LINE #	DIRECTION	LENGTH
L1	S72°31'57"W	18.10'	L22	N84°46'56"W	36.24'	L36	N72°32'00"E	6.64'
L2	N09°28'03"W	93.40'	L23	N80°31'00"W	31.18'	L37	N09°28'00"W	35.03'
L3	N80°38'06"E	63.73'	L24	N74°54'40"W	83.74'	L38	N43°50'10"E	28.19'
L4	N09°02'55"W	83.54'	L25	N74°53'04"W	55.40'	L39	N70°26'40"E	38.60'
L5	S09°02'55"E	55.08'	L26	N78°38'55"W	55.85'	L40	S79°29'17"E	63.43'
L6	N85°41'06"W	54.73'	L27	N88°41'46"W	100.96'	L41	S88°22'46"E	48.69'
L7	N85°41'06"W	84.59'	L28	N88°22'46"W	11.91'	L42	S88°51'46"E	64.14'
			L29	N79°29'17"W	67.24'	L43	S78°38'55"E	53.39'
			L30	S70°26'40"W	47.12'	L44	S74°53'04"E	54.75'
			L31	S52°35'33"W	18.12'	L45	S74°54'40"E	84.86'
			L32	N09°28'00"W	30.87'	L46	S80°31'47"E	32.30'
			L33	S60°24'58"W	31.16'	L47	S84°44'09"E	42.54'
			L34	S28°01'31"W	20.02'	L48	N09°02'52"W	20.64'
			L35	S28°01'31"W	2.72'			

PLAN
SCALE: 1" = 60'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
					JAN 2023	JESSICA DeMARTINI PLS 9095 STATE OF CALIFORNIA		FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT		91864009
					DRAWN R. SAINI			SURVEY RIGHT OF WAY MAP	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: V-02
					CHECKED K. NEUMAN					SHEET NUMBER: 9
					PROJECT ENGINEER	DATE				Attachment 3 9 of 106

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DOCUMENT NUMBER: C00-V-9248-75852

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES
1. SEE SHEET V-04 FOR SURVEY CONTROL DATA TABLES

DATE JAN 2023	ENGINEERING CERTIFICATION
DESIGN Y. LEE	
DRAWN R. SAINI	
CHECKED K. NEUMAN	
PROJECT ENGINEER	
DATE	

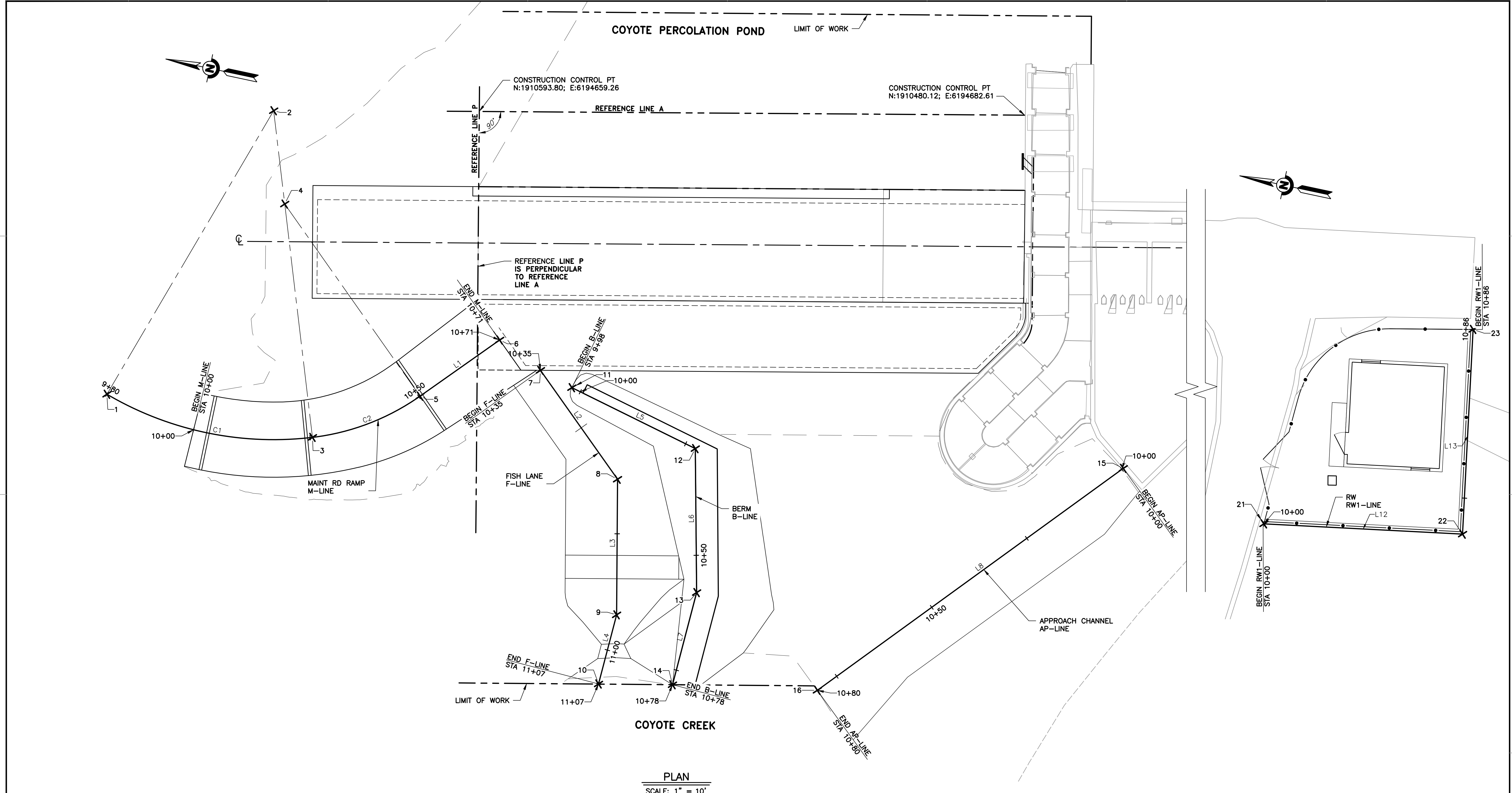
SANTA CLARA VALLEY WATER DISTRICT



PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

CONTROL LINES LAYOUT

SCALE AS SHOWN	PROJECT NUMBER 91864009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: V-03
	SHEET NUMBER: 10



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DOCUMENT NUMBER: COO-V-9248-75853

M-LINE – POINT TABLE				
POINT	EASTING	NORTHING	DESCRIPTION	STATION
1	6,194,583.9218'	1,910,658.8170'	BC	9+80.00
2	6,194,650.3187'	1,910,636.6483'	BOC	10+59.78
3	6,194,584.0432'	1,910,614.1193'	EC/BC	10+25.49
4	6,194,631.3829'	1,910,630.2115'	BOC	10+25.49
5	6,194,597.3879'	1,910,593.5462'	EC/BL	10+50.27
6	6,194,612.8831'	1,910,579.1791'	AP	

F-LINE – POINT TABLE				
POINT	EASTING	NORTHING	DESCRIPTION	STATION
7	6,194,608.0892'	1,910,569.6118'	AP	10+35.00
8	6,194,588.8332'	1,910,548.7528'	AP	10+63.39
9	6,194,560.5656'	1,910,542.9464'	AP	10+92.25
10	6,194,545.3821'	1,910,543.6536'	AP	11+07.45

B-LINE – POINT TABLE				
POINT	EASTING	NORTHING	DESCRIPTION	STATION
11	6,194,605.8739'	1,910,562.3081'	AP	9+98.00
12	6,194,598.6508'	1,910,533.9116'	AP	10+27.30
13	6,194,568.7483'	1,910,527.2722'	AP	10+57.93
14	6,194,548.4917'	1,910,528.2157'	AP	10+78.21

AP-LINE – POINT TABLE				
POINT	EASTING	NORTHING	DESCRIPTION	STATION
15	6,194,613.4787'	1,910,443.9339'	AP	10+00.00
16	6,194,553.7399'	1,910,497.8130'	AP	10+80.45

RW2 (R2-LINE) – POINT TABLE				
POINT	EASTING	NORTHING	DESCRIPTION	STATION
21	6,194,620.5710'	1,910,353.7652'	AP	10+00.00
22	6,194,627.2285'	1,910,311.9575'	AP	10+42.33
23	6,194,670.2950'	1,910,318.8154'	AP	10+85.94

MAINT RD RAMP (M-LINE) LINE TABLE				
LINE	LENGTH	DIRECTION	START POINT	END POINT
L1	20.73	S47° 09' 48.31"E	(6194597.39,1910593.55)	(6194612.59,1910579.45)

FISH LANE (F-LINE) LINE TABLE				
LINE	LENGTH	DIRECTION	START POINT	END POINT
L2	28.39	S42° 42' 42.17"W	(6194608.09,1910569.61)	(6194588.83,1910548.75)
L3	28.86	S78° 23' 32.67"W	(6194588.83,1910548.75)	(6194560.57,1910542.95)
L4	15.20	N87° 19' 59.51"W	(6194560.57,1910542.95)	(6194545.38,1910543.65)

BERM (B-LINE) LINE TABLE				
LINE	LENGTH	DIRECTION	START POINT	END POINT
L5	29.30	S14° 16' 16.99"W	(6194605.87,1910562.31)	(6194598.65,1910533.91)
L6	30.63	S77° 28' 53.28"W	(6194598.65,1910533.91)	(6194568.75,1910527.27)
L7	20.28	N87° 19' 59.51"W	(6194568.75,1910527.27)	(6194548.49,1910528.22)

APPROACH CHANNEL (AP-LINE) LINE TABLE				
LINE	LENGTH	DIRECTION	START POINT	END POINT
L8	80.08	N47° 57' 08.37"W	(6194613.21,1910444.18)	(6194553.74,1910497.81)

RW (RW1-LINE) LINE TABLE				
LINE	LENGTH	DIRECTION	START POINT	END POINT
L12	42.33	S9° 02' 52.20"E	(6194620.57,1910353.77)	(6194627.23,1910311.96)
L13	43.61	N80° 57' 07.80"E	(6194627.23,1910311.96)	(6194670.30,1910318.82)

CURVE TABLE: ALIGNMENTS (M-LINE)					
CURVE	RADIUS	LENGTH	CHORD DIRECTION	START POINT	END POINT
C1	70.00	45.49	S0° 09' 20.16"E	(6194583.92,1910658.82)	(6194584.04,1910614.12)
C2	50.00	24.77	S32° 58' 09.49"E	(6194584.04,1910614.12)	(6194597.39,1910593.55)

SURVEY CONTROL POINTS TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
18	229.05	1911524.48	6193272.16	FND BD W/PUNCH IN MONWELL
27	230.40	1910418.28	6194040.63	FND BD W/PUNCH IN MONWELL
38	228.70	1910000.56	6194210.22	FND BD W/PUNCH IN MONWELL
101	232.95	1910469.42	6194692.13	PAINTED FLIGHT X ON ASPHALT WITH MAG NAIL
102	229.43	1910212.93	6194130.36	PAINTED FLIGHT X ON ASPHALT WITH MAG NAIL
103	234.05	1909136.93	6195279.72	MAG NAIL AND CROSS
106	229.30	1911519.49	6193262.45	MAG NAIL AND CROSS
108	221.63	1911951.80	6193540.35	8-INCH SPIKE
113	239.10	1909586.29	6196741.95	MAG NAIL AND CROSS
116	233.26	1911477.32	6194190.06	FND CALTRANS ROW
117	236.62	1909686.42	6196632.51	FND CALTRANS ROW
120	246.27	1907383.52	6197447.37	MAG NAIL AND CROSS
121	277.02	1908389.95	6198407.10	MAG NAIL AND CROSS
122	229.10	1909788.86	6194073.47	FOUND FLIGHT X
BM561	222.2900	-	-	SCVWD BRASS DISK AT THE EASTERLY SIDE OF A CATCH BASIN ON THE TOP OF CURB. THE BRASS DISK IS APPROXIMATELY 80 FEET EASTERLY OF LARISA OAK PLACE ON THE NORTHERLY CURB LINE OF MONTEREY ROAD, CITY OF SAN JOSE.

HORIZONTAL DATUM: CALIFORNIA COORDINATE SYSTEM OF 1983 ZONE III, EPOCH 2010.00, CCS83 (2011).

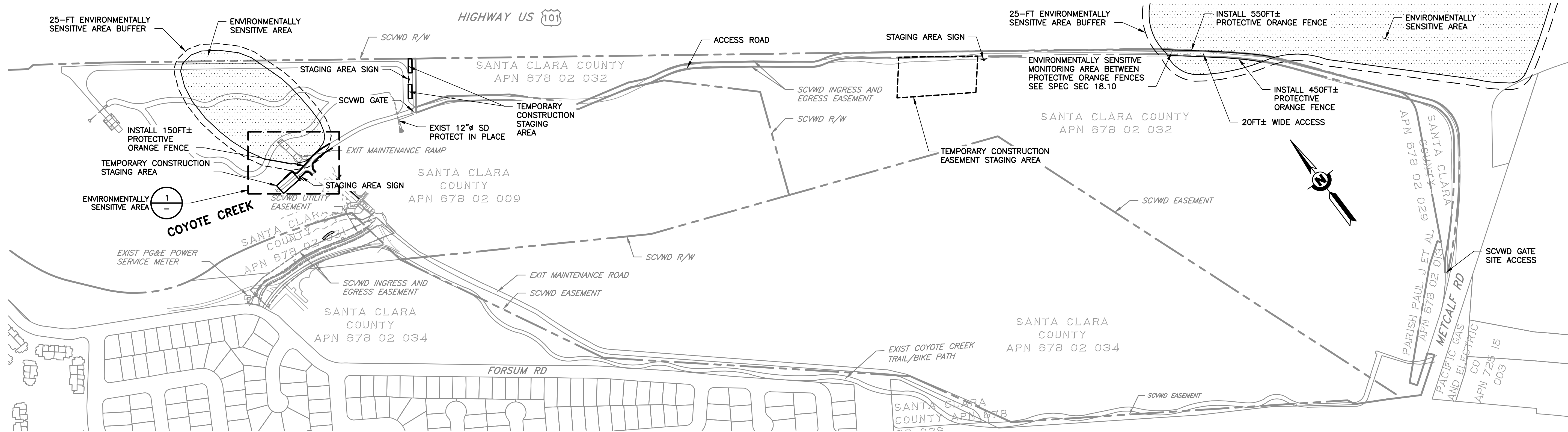
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 88 (NAVD88). SCVWD VERTICAL EPOCH 2017.20, EGOID 12B.

UNITS OF MEASURE: U.S. SURVEY FEET.

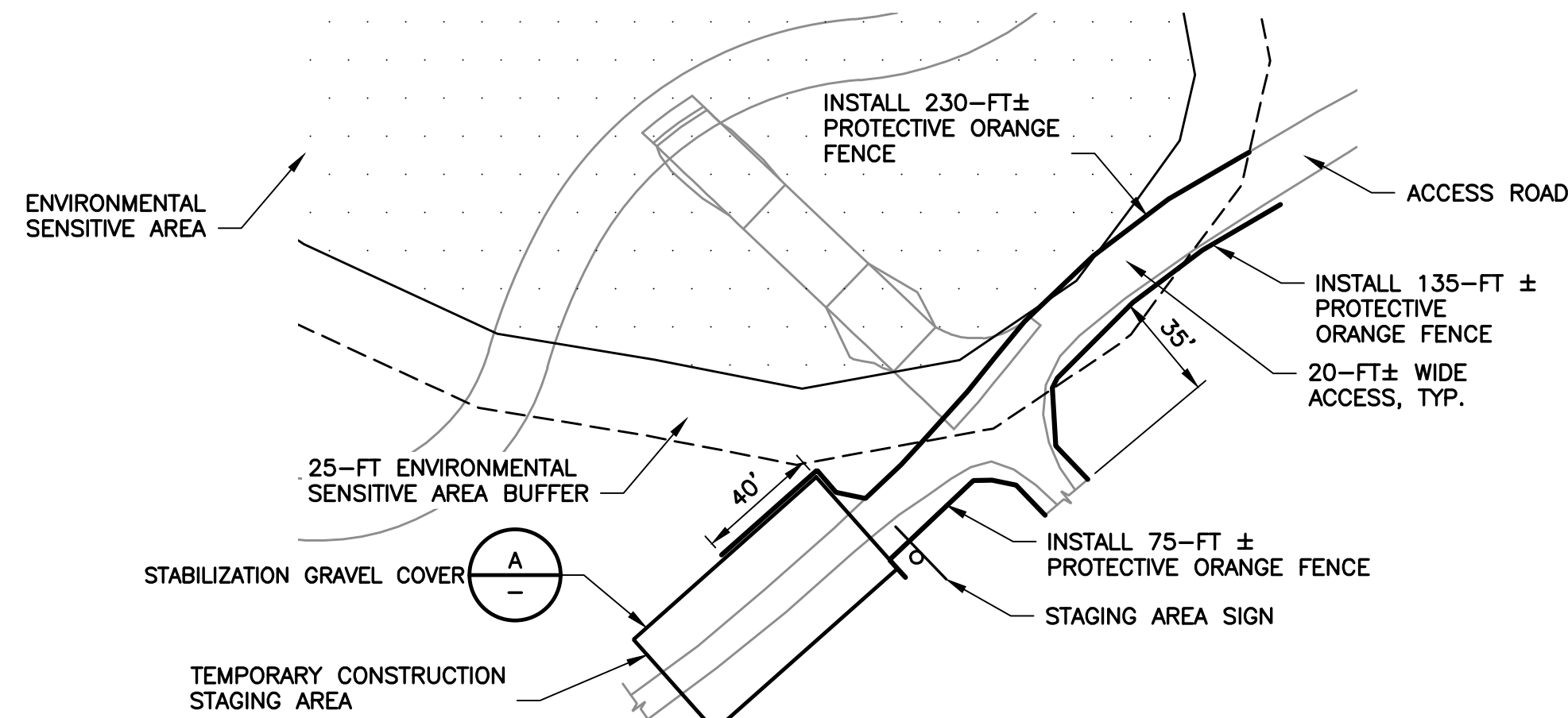
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					JAN 2023	REGISTERED PROFESSIONAL ENGINEER YOUNHAN LEE No. C42456 CIVIL STATE OF CALIFORNIA PROJECT ENGINEER		FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT SURVEY CONTROL DATA	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: V-04 SHEET NUMBER: 11

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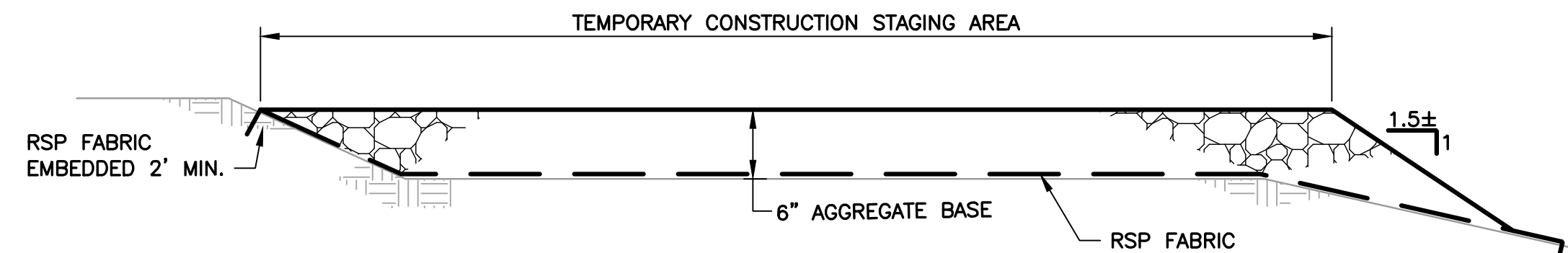
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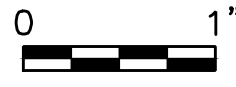
PLAN
SCALE: 1" = 200'



DETAIL 1 ENVIRONMENTALLY SENSITIVE AREA
SCALE: 1" = 50'

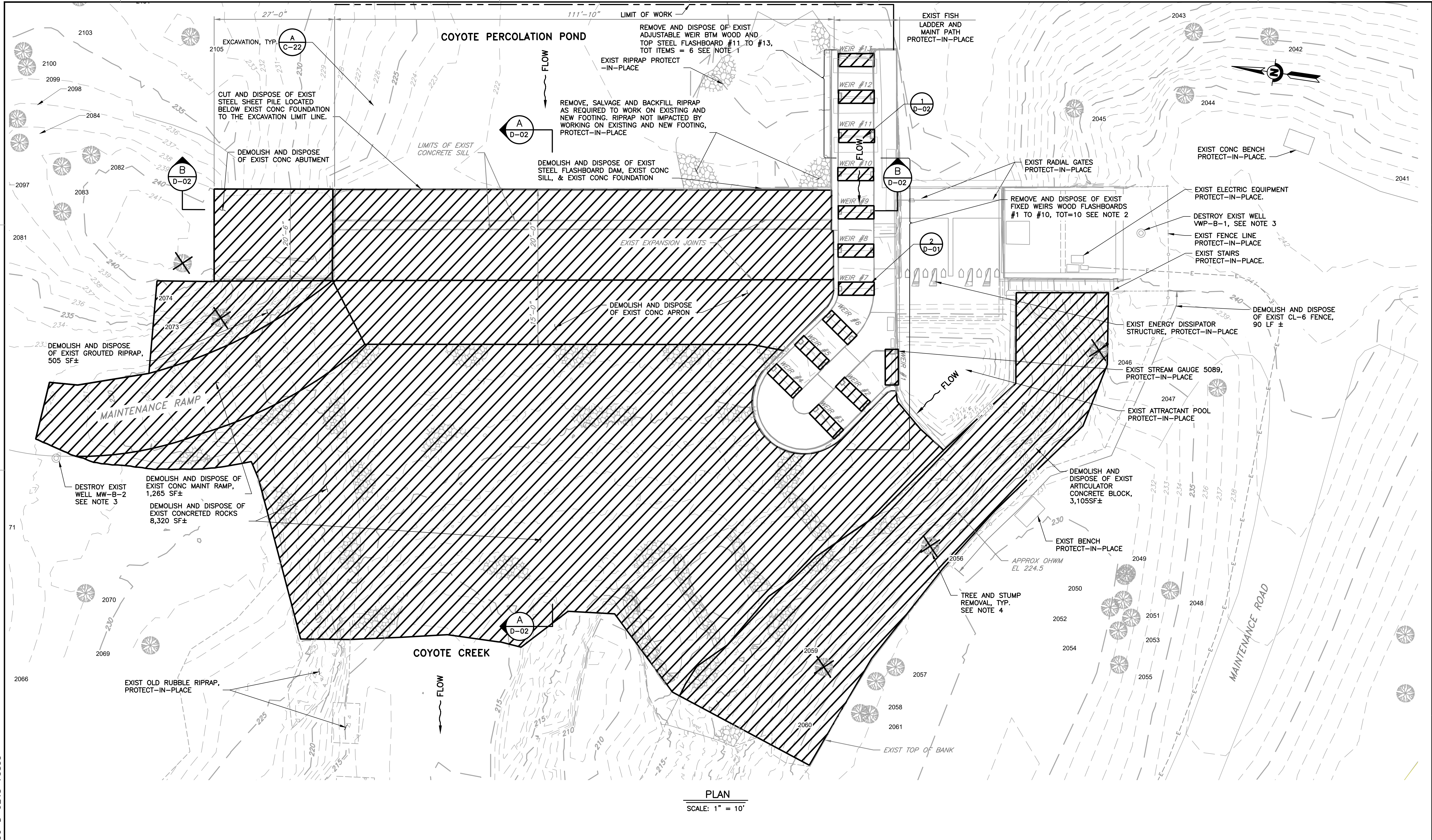


SECTION A STABILIZATION GRAVEL COVER
SCALE: N.T.S.

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
				1. SEE SPEC SEC 18 FOR EN	JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT ENVIRONMENTALLY SENSITIVE AREA PLAN, DETAIL	 VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	91864009
										SHEET CODE: V-05
										SHEET NUMBER: 12

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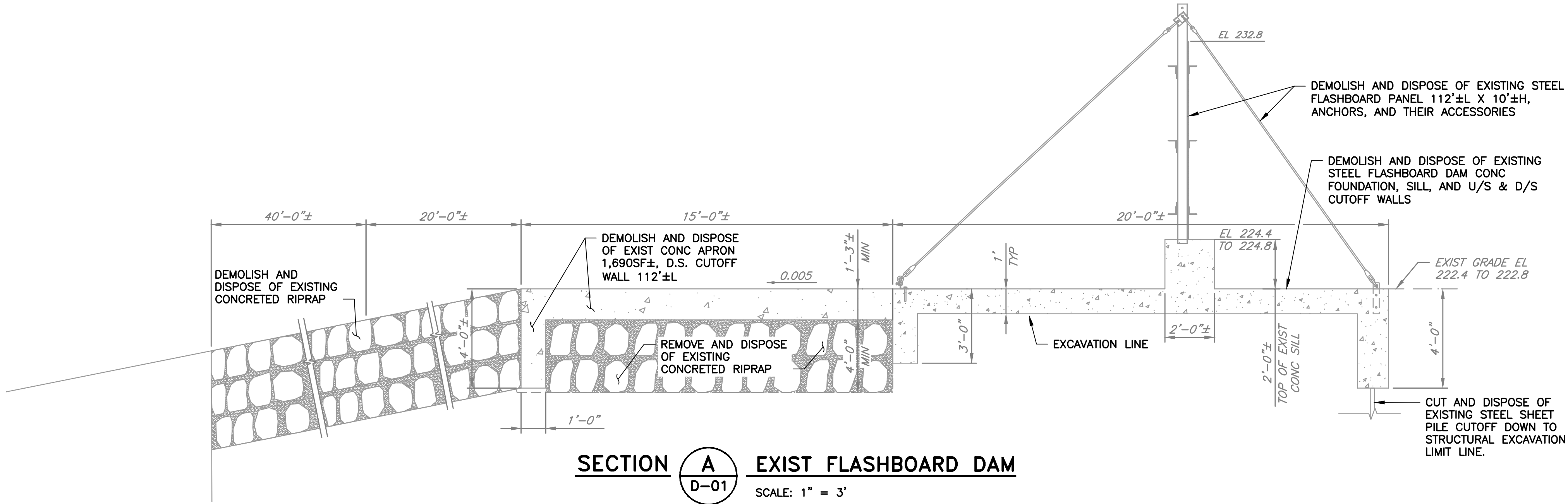
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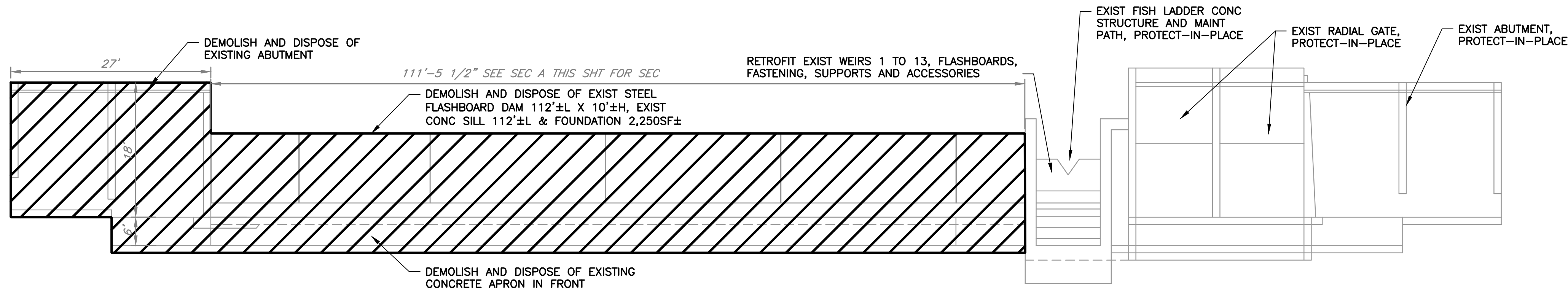
REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
				1. TYP EXIST ADJUSTABLE WEIR DEMOLITION, SEE DET 1, SHT D-02. 2. TYP EXIST FIXED WEIR DEMOLITION, SEE DET 2, SHT D-02. 3. SEE SPECIFICATION ARTICLE 23.04 FOR DESTROY EXIST WELLS. 4. TREE AND STUMP REMOVAL, SEE SHT D-03	JAN 2023	REGISTERED PROFESSIONAL ENGINEER JOHAN LEE No. C42456 CIVIL STATE OF CALIFORNIA		FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
								DEMOLITION PLAN	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: D-01 SHEET NUMBER: 13

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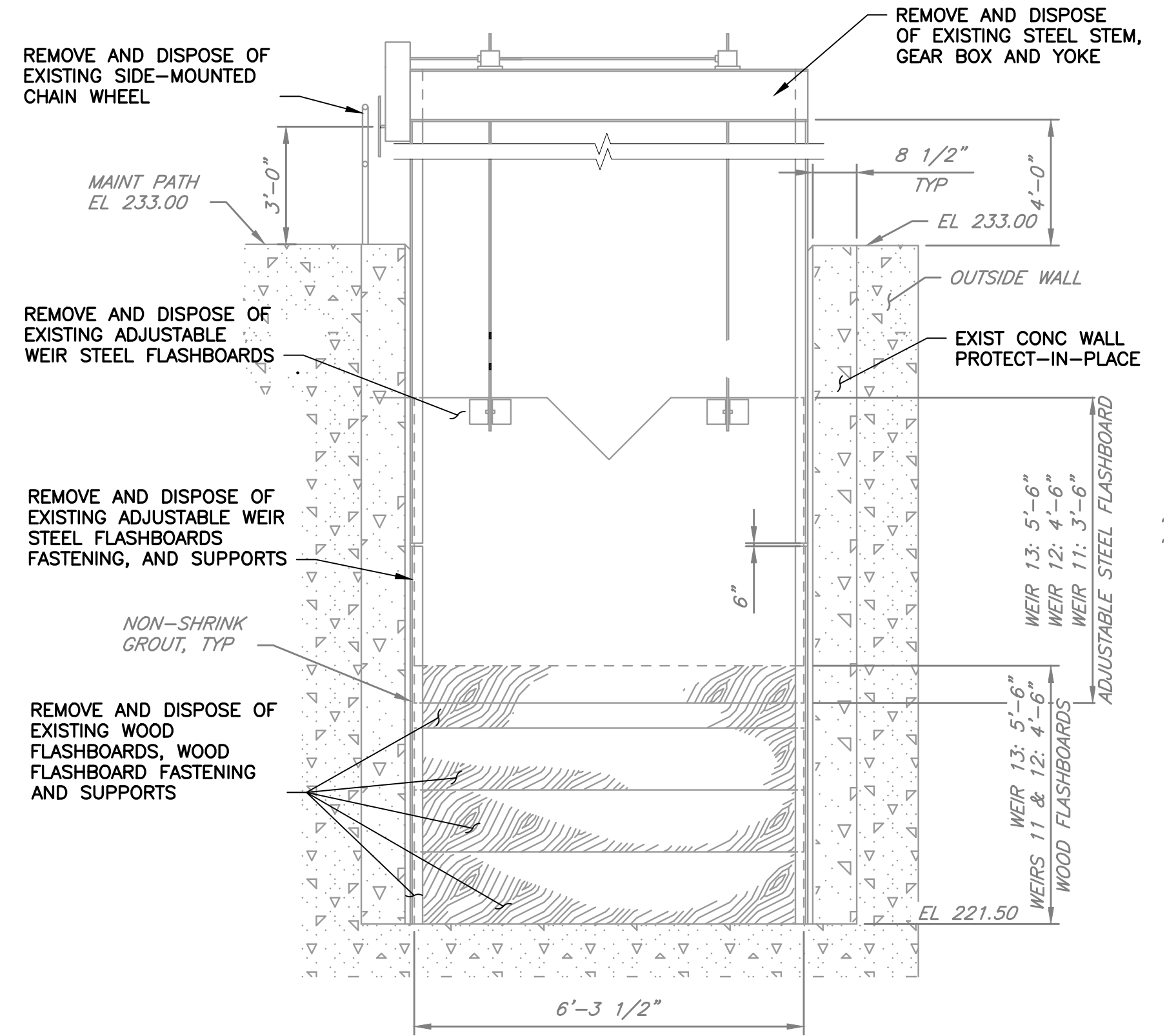
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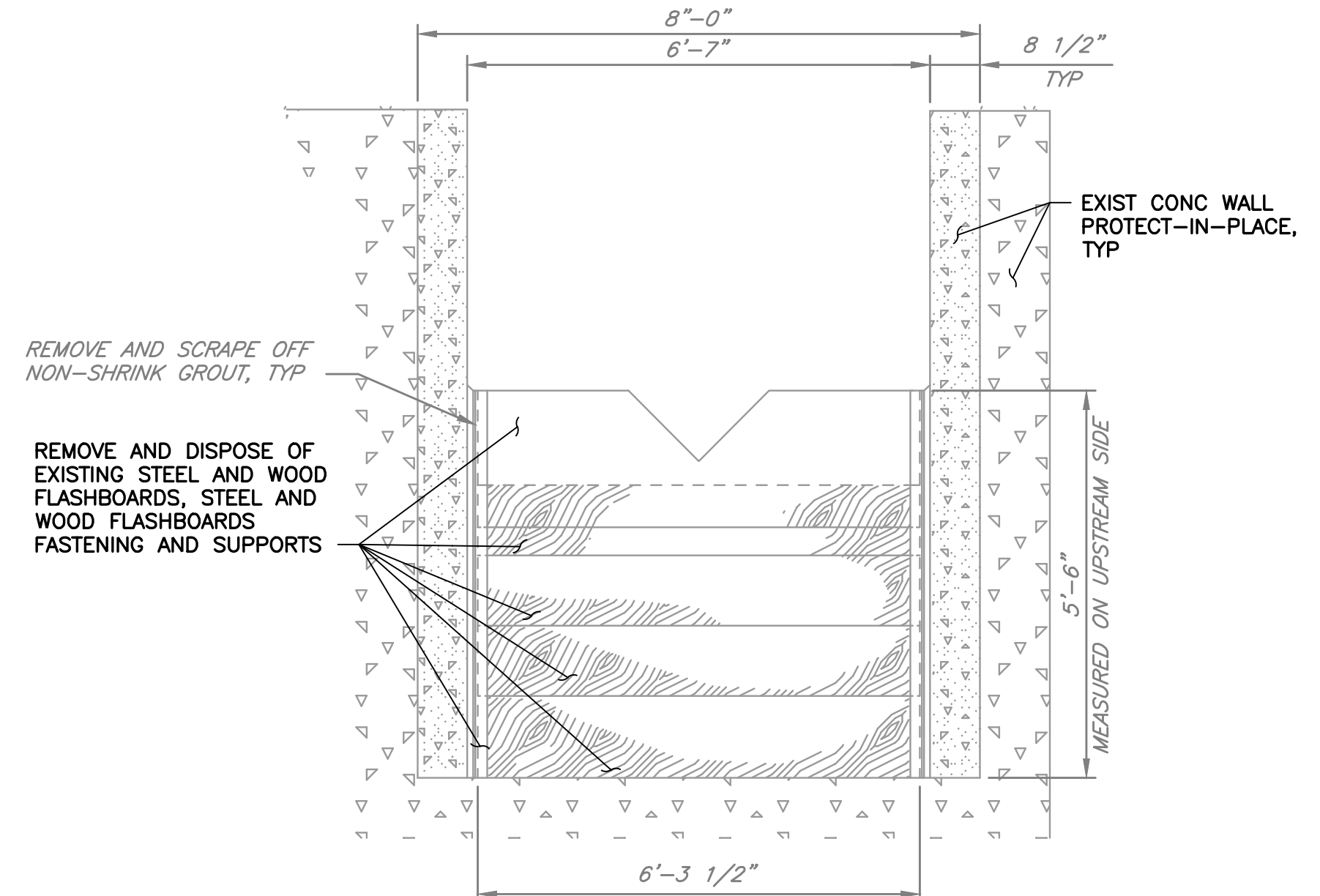
SECTION **A** EXIST FLASHBOARD DAM
D-01 SCALE: 1" = 3'



SECTION **B** EXIST FLASHBOARD DAM
D-01 SCALE: 1" = 10'



DETAIL **1** EXIST ADJUSTABLE WEIR
D-01 LOOKING DOWNSTREAM
SCALE: N.T.S.



DETAIL **2** EXIST FIXED WEIR
D-01 SCALE: N.T.S.

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
								FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
								DEMOLITION SECTIONS AND DETAILS	VERIFY SCALES	SHEET CODE:
									0 1"	D-02
									BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER:
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4

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DOCUMENT NUMBER: C00-D-9248-75857

1

LEGEND

-  TREES AND STUMP TO BE DEMOLISHED
-  EXIST TREES

DETAIL **1** PLAN
D-01 SCALE: 1" = 20'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
					JAN 2023	DESIGN Y. LEE DRAWN T. EVANS CHECKED K. NEUMAN			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	91864009
									VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: D-03 SHEET NUMBER: 15

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DOCUMENT NUMBER: COO-D-9248-75858

TREE PRESERVATION TABLE				
POINT	NORTHING	EASTING	DESCRIPTION	TREE NAME
2007	1910327.2440	6194577.7380	TREE 12" TAG 713	QUERCUS AGRIFOLIA
2008	1910329.9040	6194590.6160	TREE 14" TAG 771	QUERCUS AGRIFOLIA
2009	1910313.0450	6194600.3910	TREE 14" TAG 724	HETEROMELES ARBUTIFOLIA
2010	1910311.1080	6194611.6730	TREE 10" TAG 770	QUERCUS AGRIFOLIA
2011	1910316.5590	6194621.3550	TREE 15" TAG 733	QUERCUS AGRIFOLIA
2012	1910299.8830	6194624.2770	TREE 10" TAG 740	HETEROMELES ARBUTIFOLIA
2013	1910266.0160	6194678.3660	TREE 16" TAG 723	QUERCUS AGRIFOLIA
2014	1910239.4580	6194676.9550	TREE 24" TAG 739	QUERCUS AGRIFOLIA
2015	1910228.1060	6194678.8570	TREE 18" TAG 738	QUERCUS AGRIFOLIA
2016	1910220.2820	6194680.9910	TREE 8" TAG 718	QUERCUS AGRIFOLIA
2017	1910211.0220	6194718.9170	TREE 18" TAG 737	QUERCUS AGRIFOLIA
2018	1910223.9550	6194724.2200	TREE 10" TAG 735	QUERCUS AGRIFOLIA
2019	1910226.7830	6194721.6080	TREE 8" TAG 720	QUERCUS AGRIFOLIA
2020	1910230.3410	6194719.4940	TREE 18" TAG 717	QUERCUS AGRIFOLIA
2021	1910236.8700	6194721.0200	TREE 6" TAG 719	QUERCUS AGRIFOLIA
2022	1910240.3490	6194721.9490	TREE 14" TAG 765	QUERCUS AGRIFOLIA
2023	1910252.8180	6194714.0600	TREE 6"x4"x4" TAG 721	QUERCUS AGRIFOLIA
2024	1910257.6870	6194710.9310	TREE 12" TAG 760	QUERCUS AGRIFOLIA
2025	1910257.1560	6194712.6690	TREE 12" TAG 763	QUERCUS AGRIFOLIA
2026	1910264.6680	6194707.4530	TREE 14" TAG 790	QUERCUS AGRIFOLIA
2027	1910270.7090	6194710.2120	TREE 12" TAG 789	QUERCUS AGRIFOLIA
2028	1910274.7380	6194712.5980	TREE 10" TAG 761	QUERCUS AGRIFOLIA
2029	1910273.1420	6194704.4710	TREE 4"	QUERCUS AGRIFOLIA
2030	1910276.9670	6194701.5450	TREE 3"	QUERCUS AGRIFOLIA
2031	1910286.9230	6194705.6310	TREE 18" TAG 796	QUERCUS AGRIFOLIA
2032	1910301.3880	6194702.2370	TREE 4"	QUERCUS AGRIFOLIA
2034	1910305.6580	6194713.4030	TREE 10" TAG 793	QUERCUS AGRIFOLIA
2035	1910310.9710	6194709.8900	TREE 4"	QUERCUS AGRIFOLIA
2036	1910315.4910	6194713.1820	TREE 8" TAG 795	QUERCUS AGRIFOLIA
2037	1910317.8190	6194709.3340	TREE 4"x5"	QUERCUS AGRIFOLIA
2038	1910326.5230	6194711.7840	TREE 24" TAG 791	QUERCUS AGRIFOLIA
2039	1910329.8760	6194704.6160	TREE 3"	QUERCUS AGRIFOLIA
2040	1910329.2340	6194700.8170	TREE 3"	QUERCUS AGRIFOLIA
2041	1910339.1470	6194695.2100	TREE 24" TAG 792	QUERCUS AGRIFOLIA
2042	1910386.5500	6194715.9320	TREE 12" TAG 722	QUERCUS AGRIFOLIA
2043	1910403.4050	6194713.5990	TREE 18" TAG 794	QUERCUS AGRIFOLIA
2044	1910402.5010	6194699.3820	TREE 48" TAG 767	QUERCUS AGRIFOLIA
2045	1910426.1550	6194691.4160	TREE 48" TAG 766	QUERCUS AGRIFOLIA
2047	1910382.2200	6194636.4480	TREE 4"	QUERCUS AGRIFOLIA
2048	1910383.5250	6194589.7820	TREE CLUSTER	HETEROMELES ARBUTIFOLIA
2049	1910393.8610	6194591.6220	TREE 2"	QUERCUS AGRIFOLIA

TREE PRESERVATION TABLE				
POINT	NORTHING	EASTING	DESCRIPTION	TREE NAME
2050	1910394.1970	6194590.9840	TREE 2"	QUERCUS AGRIFOLIA
2051	1910393.4500	6194585.6230	TREE 2" CLUSTER	HETEROMELES ARBUTIFOLIA
2052	1910395.9590	6194583.3770	TREE 2"	QUERCUS AGRIFOLIA
2053	1910390.8460	6194582.0600	TREE 2"	QUERCUS AGRIFOLIA
2054	1910393.1280	6194578.6580	TREE 6" TAG 768	QUERCUS AGRIFOLIA
2055	1910391.4040	6194571.2110	TREE 4" CLUSTER	HETEROMELES ARBUTIFOLIA
2057	1910440.4180	6194560.6550	TREE 24" TAG 800	QUERCUS AGRIFOLIA
2058	1910444.0750	6194556.6730	TREE 16" TAG 799	QUERCUS AGRIFOLIA
2060	1910446.1330	6194548.9510	TREE 12" TAG 798	QUERCUS AGRIFOLIA
2061	1910444.0340	6194549.1040	TREE 16" TAG 787	QUERCUS AGRIFOLIA
2065	1910647.6450	6194521.0980	TREE 22" TAG 653	QUERCUS AGRIFOLIA
2066	1910638.2000	6194520.4120	TREE 12" TAG 661	QUERCUS AGRIFOLIA
2067	1910648.7660	6194531.5820	TREE 8" TAG 683	QUERCUS AGRIFOLIA
2068	1910650.4380	6194534.7940	TREE 4" TAG 641	JUGLANS HINDSII
2069	1910605.0510	6194532.0460	TREE 5"x7"x9" TAG 659	JUGLANS HINDSII
2070	1910621.6110	6194540.6150	TREE 48" TAG 666	JUGLANS HINDSII
2071	1910647.7700	6194553.2050	TREE 14" TAG 684	QUERCUS AGRIFOLIA
2072	1910656.0460	6194553.2170	TREE 36" TAG 672	QUERCUS AGRIFOLIA
2075	1910663.5370	6194591.9740	TREE 6" TAG 649	QUERCUS AGRIFOLIA
2076	1910670.9920	6194594.4350	TREE 16" TAG 650	QUERCUS AGRIFOLIA
2077	1910677.8730	6194606.1760	TREE 6" TAG 656	SAMBUCUS NIGRA SSP. CAERULEA
2078	1910683.2040	6194625.8810	TREE 6" TAG 647	QUERCUS AGRIFOLIA
2079	1910670.3280	6194621.7250	TREE 4" TAG 677	QUERCUS AGRIFOLIA
2080	1910666.2050	6194621.3960	TREE 12" TAG 665	QUERCUS AGRIFOLIA
2081	1910643.8490	6194623.3980	TREE 5" TAG 671	QUERCUS AGRIFOLIA
2082	1910640.0190	6194637.1660	TREE 5" TAG 692	QUERCUS AGRIFOLIA
2083	1910645.9500	6194633.3180	TREE 5" TAG 646	QUERCUS AGRIFOLIA
2084	1910656.3110	6194636.6130	TREE 12" TAG 685	JUGLANS HINDSII
2085	1910666.5410	6194635.6720	TREE 12" TAG 652	QUERCUS AGRIFOLIA
2086	1910674.9990	6194636.3090	TREE 12" TAG 669	JUGLANS HINDSII
2087	1910688.7630	6194636.5390	TREE 12" TAG 655	QUERCUS AGRIFOLIA
2088	1910688.7920	6194633.4750	TREE 12" TAG 663	QUERCUS AGRIFOLIA
2089	1910689.4300	6194644.8340	TREE 14"	QUERCUS AGRIFOLIA
2090	1910686.5210	6194642.3200	TREE 3"	QUERCUS AGRIFOLIA
2091	1910685.8110	6194642.6150	TREE 3"	QUERCUS AGRIFOLIA
2092	1910684.7500	6194640.3050	TREE 4" TAG 657	QUERCUS AGRIFOLIA
2093	1910682.3900	6194648.0690	TREE 3"	QUERCUS AGRIFOLIA
2094	1910685.3830	6194646.6670	TREE 3"	QUERCUS AGRIFOLIA
2095	1910679.2010	6194640.7140	TREE 10" TAG 670	JUGLANS HINDSII
2096	1910673.2790	6194639.7700	TREE 4" TAG 643	QUERCUS AGRIFOLIA
2097	1910661.0090	6194640.5910	TREE 4" TAG 645	QUERCUS AGRIFOLIA

TREE PRESERVATION TABLE				
POINT	NORTHING	EASTING	DESCRIPTION	TREE NAME
2098	1910657.9270	6194641.7620	TREE 16" TAG 662	QUERCUS AGRIFOLIA
2099	1910658.1200	6194653.6220	TREE 12" TAG 682	QUERCUS AGRIFOLIA
2100	1910659.6120	6194656.9020	TREE 16" TAG 660	QUERCUS AGRIFOLIA
2101	1910677.5500	6194661.2800	TREE 4" TAG 654	QUERCUS AGRIFOLIA
2102	1910652.0520	6194674.1800	TREE 12" TAG 675	QUERCUS AGRIFOLIA
2103	1910649.7090	6194671.2910	TREE 3"	JUGLANS HINDSII
2104	1910641.8480	6194674.8080	TREE 26" TAG 696	QUERCUS AGRIFOLIA
2105	1910623.5410	6194667.5610	TREE 36" TAG 640	QUERCUS AGRIFOLIA
2106	1910623.4270	6194705.4240	TREE 48" TAG 679	QUERCUS AGRIFOLIA
2107	1910649.8260	6194697.2590	TREE 6" TAG 673	QUERCUS AGRIFOLIA
2108	1910647.1060	6194708.0900	TREE 18" TAG 651	QUERCUS AGRIFOLIA
2109	1910651.5750	6194711.3020	TREE 4" TAG 676	QUERCUS AGRIFOLIA
2110	1910657.5970	6194701.4290	TREE 10" TAG 642	QUERCUS AGRIFOLIA
2111	1910672.2000	6194693.9410	TREE 3"	QUERCUS AGRIFOLIA
2112	1910682.4010	6194681.2820	TREE 4"	QUERCUS AGRIFOLIA
2113	1910686.8440	6194685.2700	TREE 14" TAG 658	QUERCUS AGRIFOLIA
2114	1910679.7440	6194694.5760	TREE 6" TAG 678	QUERCUS AGRIFOLIA
2115	1910681.9250	6194698.6140	TREE 14" TAG 680	QUERCUS AGRIFOLIA
2116	1910682.6120	6194704.6970	TREE 9" TAG 681	JUGLANS HINDSII
2117	1910681.4050	6194708.5080	TREE 3"	QUERCUS AGRIFOLIA
2118	1910682.1690	6194718.9380	TREE 6" TAG 693	QUERCUS AGRIFOLIA
2119	1910681.0010	6194722.0770	TREE 10" TAG 689	QUERCUS AGRIFOLIA
2120	1910679.7360	6194731.2680	TREE 10" TAG 687	QUERCUS AGRIFOLIA
2121	1910678.0990	6194727.1930	TREE 3"	QUERCUS AGRIFOLIA
2122	1910657.6540	6194723.7290	TREE 6" TAG 688	QUERCUS AGRIFOLIA
2123	1910641.3420	6194718.8420	TREE 10" TAG 690	QUERCUS AGRIFOLIA
2124	1910623.6000	6194716.2340	TREE 18" TAG 694	QUERCUS AGRIFOLIA
2125	1910607.7210	6194718.9580	TREE 36" TAG 686	PLATANUS RACEMOSA
2126	1910611.6810	6194719.8320	TREE 24" TAG 695	PLATANUS RACEMOSA
2127	1910608.6380	6194723.0430	TREE 30" TAG 674	PLATANUS RACEMOSA
2128	1910619.6900	6194743.2840	TREE 48" TAG 648	QUERCUS AGRIFOLIA
2129	1910655.5370	6194730.7390	TREE 12" TAG 691	JUGLANS HINDSII
2130	1910674.3850	6194734.8680	TREE 12"	QUERCUS AGRIFOLIA
2131	1910675.3420	6194740.6600	TREE 6"	QUERCUS AGRIFOLIA
2132	1910678.0990	6194744.2060	TREE 8" TAG 664	QUERCUS AGRIFOLIA
2133	1910672.5480	6194746.2430	TREE 6" TAG 644	QUERCUS AGRIFOLIA

TREE REMOVAL TABLE				
POINT	NORTHING	EASTING	DESCRIPTION	TREE NAME
2046	1910409.9830	6194639.3940	TREE 48" Tag 797	QUERCUS AGRIFOLIA
2056	1910438.2340	6194588.7990	TREE 12" Tag 769	QUERCUS AGRIFOLIA
2059	1910456.1650	6194557.4700	TREE 2" CLUSTER	QUERCUS AGRIFOLIA
2073	1910604.2410	6194607.1230	TREE 4" Tag 667	QUERCUS AGRIFOLIA
2074	1910615.1080	6194617.4750	TREE 48" Tag 668	QUERCUS AGRIFOLIA

NOTES:

1. SEE SPECS SECTION 23.02.01, CLEARING AND GRUBBING ON THE TREE REMOVAL.
2. REFER TO SHEET D-3 FOR TREE PRESERVATION AND REMOVAL LOCATIONS.
3. ALL TREES NOT REMOVED SHALL BE PROTECTED IN PLACE.
4. TREE DIAMETER IS MEASURED AT BREAST HEIGHT (54").

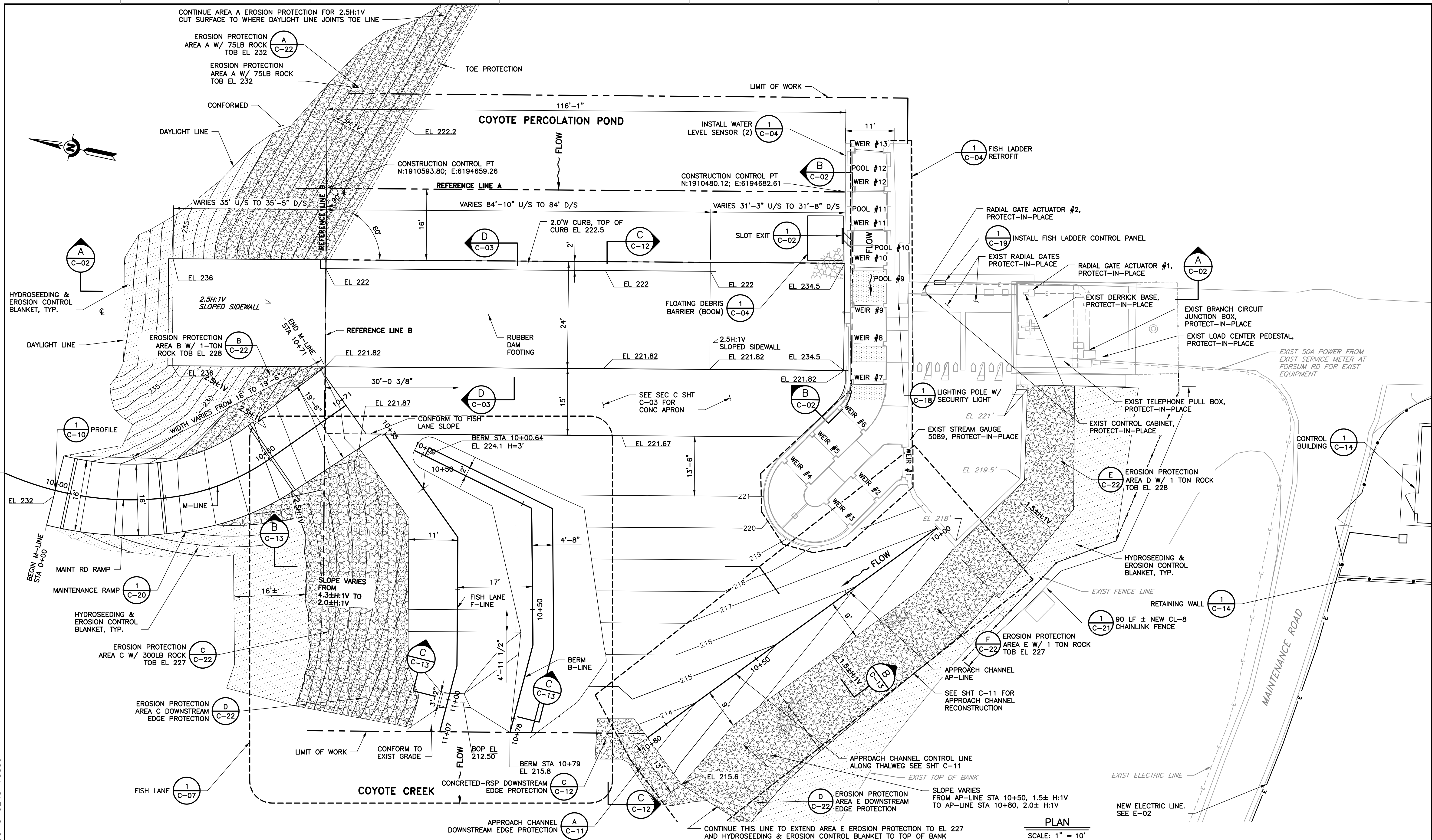
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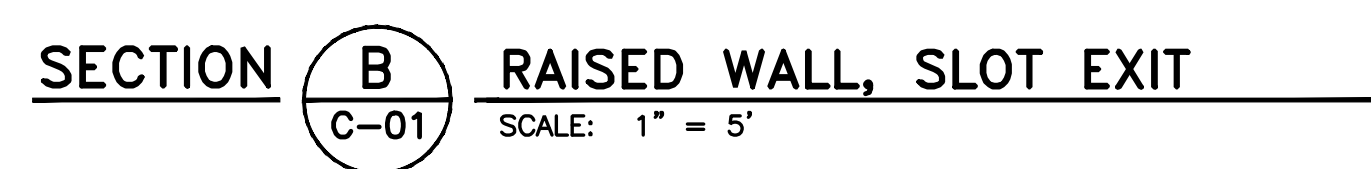
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REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES		DATE JAN 2023	DESIGN Y. LEE	DRAWN T. EVANS	CHECKED K. NEUMAN	ENGINEERING CERTIFICATION 	SANTA CLARA VALLEY WATER DISTRICT 	PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT TREE AND STUMP REMOVAL TABLE	SCALE AS SHOWN VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91864009 SHEET CODE: D-04 SHEET NUMBER: 16
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REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE JAN 2023 DESIGN Y. LEE DRAWN R. SAINI CHECKED K. NEUMAN  ENGINEERING CERTIFICATION  SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT DESIGN PLAN VIEW	SCALE AS SHOWN  VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91864009 SHEET CODE: C-01 SHEET NUMBER: 17
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Attachment 3
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4

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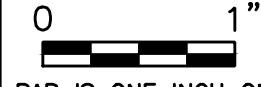
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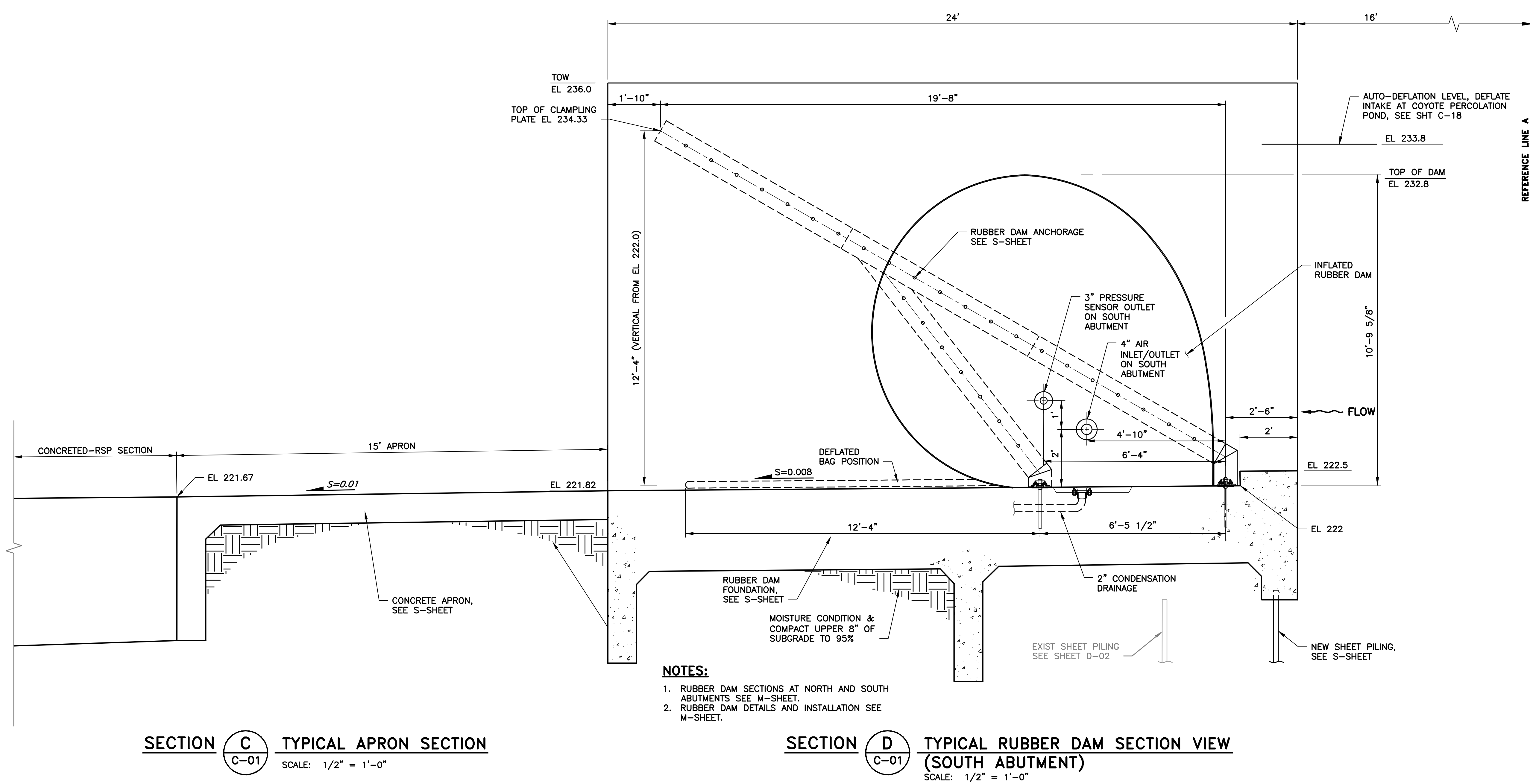
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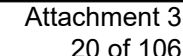
DATE JAN 2023	ENGINEERING CERTIFICATION
DESIGN Y. LEE	
DRAWN R. SAINI	
CHECKED K. NEUMAN	
PROJECT ENGINEER	

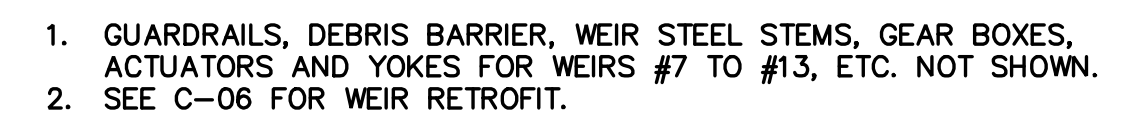
SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT		SCALE AS SHOWN	PROJECT NUMBER 91864009
RUBBER DAM, APRON TYPICAL SECTIONS		VERIFY SCALES  BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-03
			SHEET NUMBER: 19







Attachment 3
21 of 106

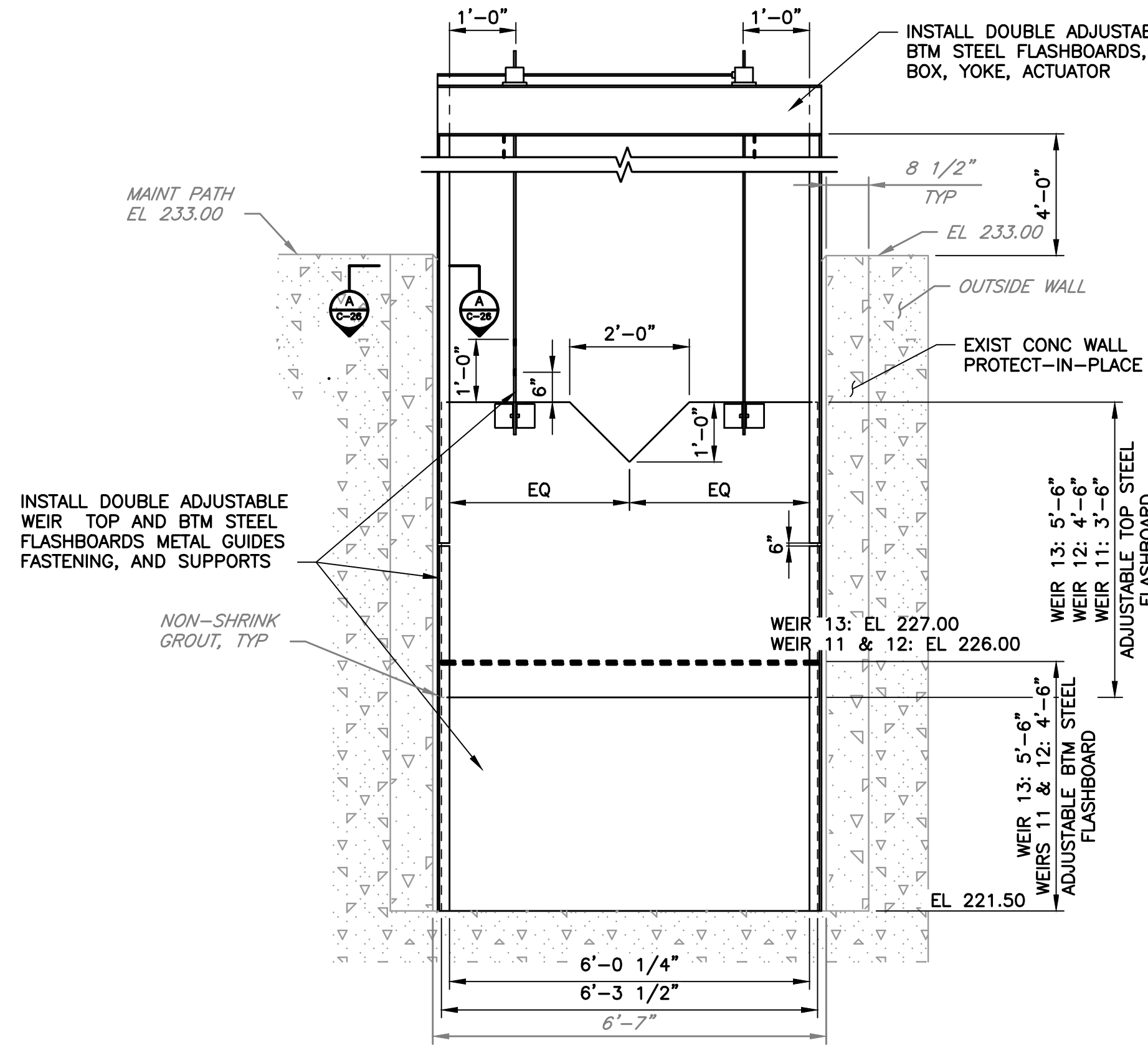
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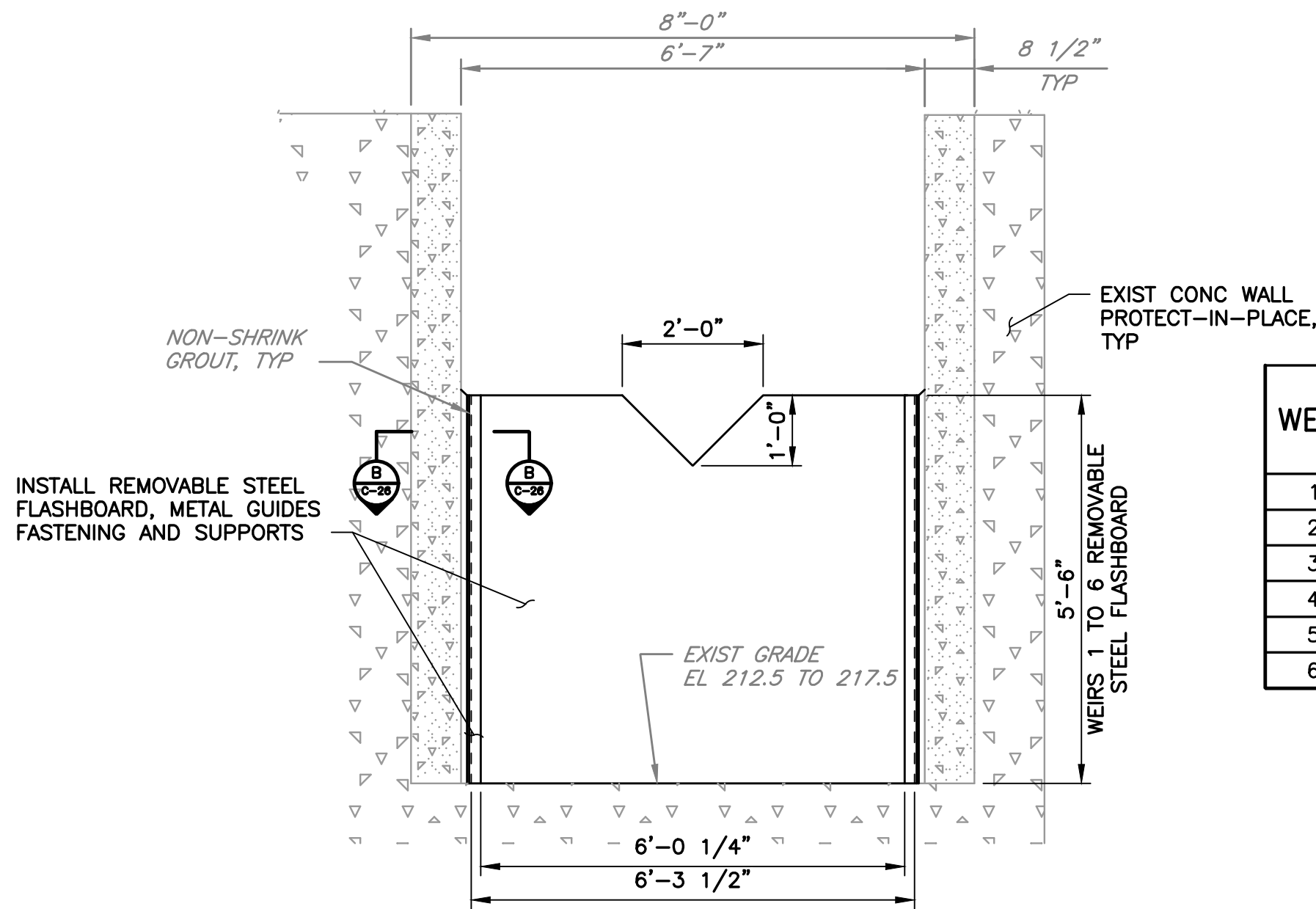
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DETAIL 1
C-04 TYPICAL DOUBLE ADJUSTABLE WEIR
C-05 LOOKING DOWNSTREAM
SCALE: N.T.S.

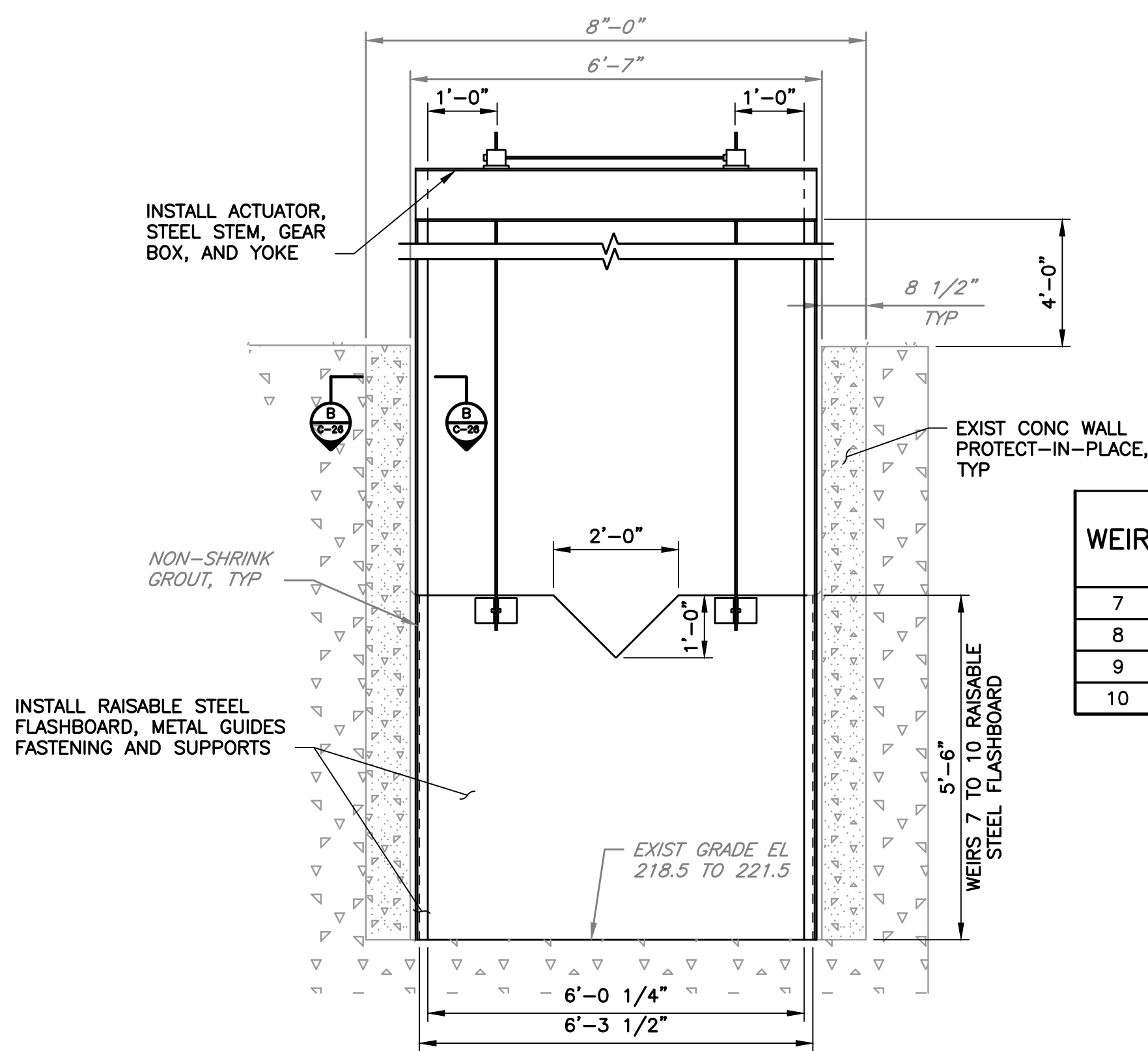
TOP WEIR		
WEIR	MIN. ELEV.	MAX. ELEV.
11	225.00'	234.50'
12	226.00'	235.50'
13	227.00'	236.50'

BOTTOM WEIR	
WEIR	ELEV. AT TOP OF WEIR
11	226.00'
12	226.00'
13	227.00'



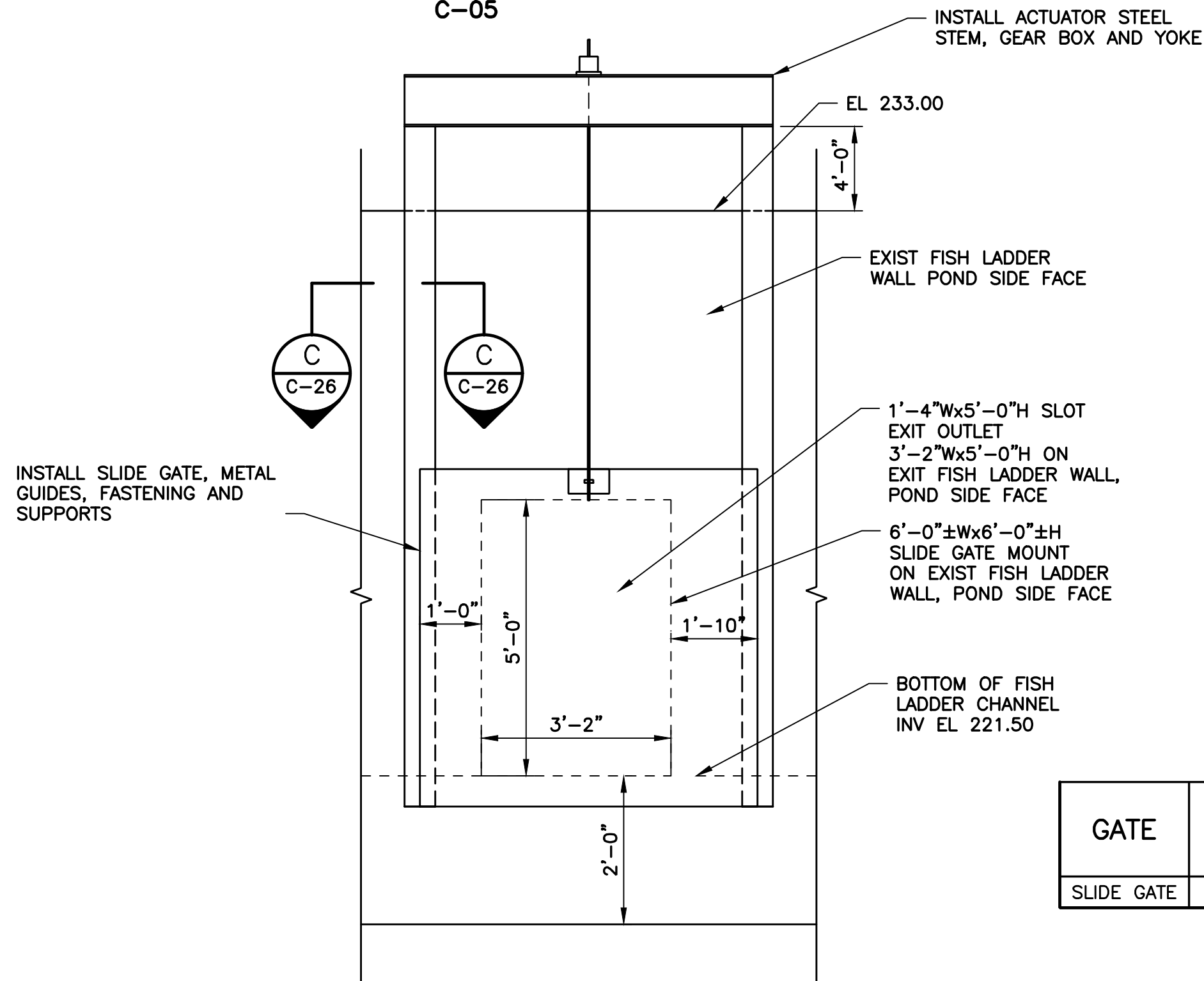
DETAIL 3
C-04 SINGLE REMOVABLE WEIR
C-05 SCALE: N.T.S.

WEIR	ELEV. AT TOP OF WEIR
1	218.00'
2	219.00'
3	220.00'
4	221.00'
5	222.00'
6	223.00'



DETAIL 2
C-04 SINGLE RAISABLE WEIR
C-05 SCALE: N.T.S.

WEIR	MIN. ELEV. AT TOP OF WEIR	MAX. ELEV. AT TOP OF WEIR
7	224.00'	231.50'
8	225.00'	231.50'
9	226.00'	231.50'
10	227.00'	231.50'



DETAIL 4
C-04 SLOT EXIT SLIDE GATE
C-05 SCALE: N.T.S.

GATE	MIN. ELEV. AT TOP OF WEIR	MAX. ELEV. AT TOP OF WEIR
SLIDE GATE	226.50'	231.50'

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES
1. SCVWD WILL SUPPLY ALL THE NEW STEEL WEIRS, SUPPORTS, SLIDE GATE, GEAR BOXES, ACTUATORS AND YOKES

DATE
JAN 2023
DESIGN
Y. LEE
DRAWN
R. SAINI
CHECKED
K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER
JOHAN LEE
No. C42456
CIVIL
STATE OF CALIFORNIA
PROJECT ENGINEER DATE



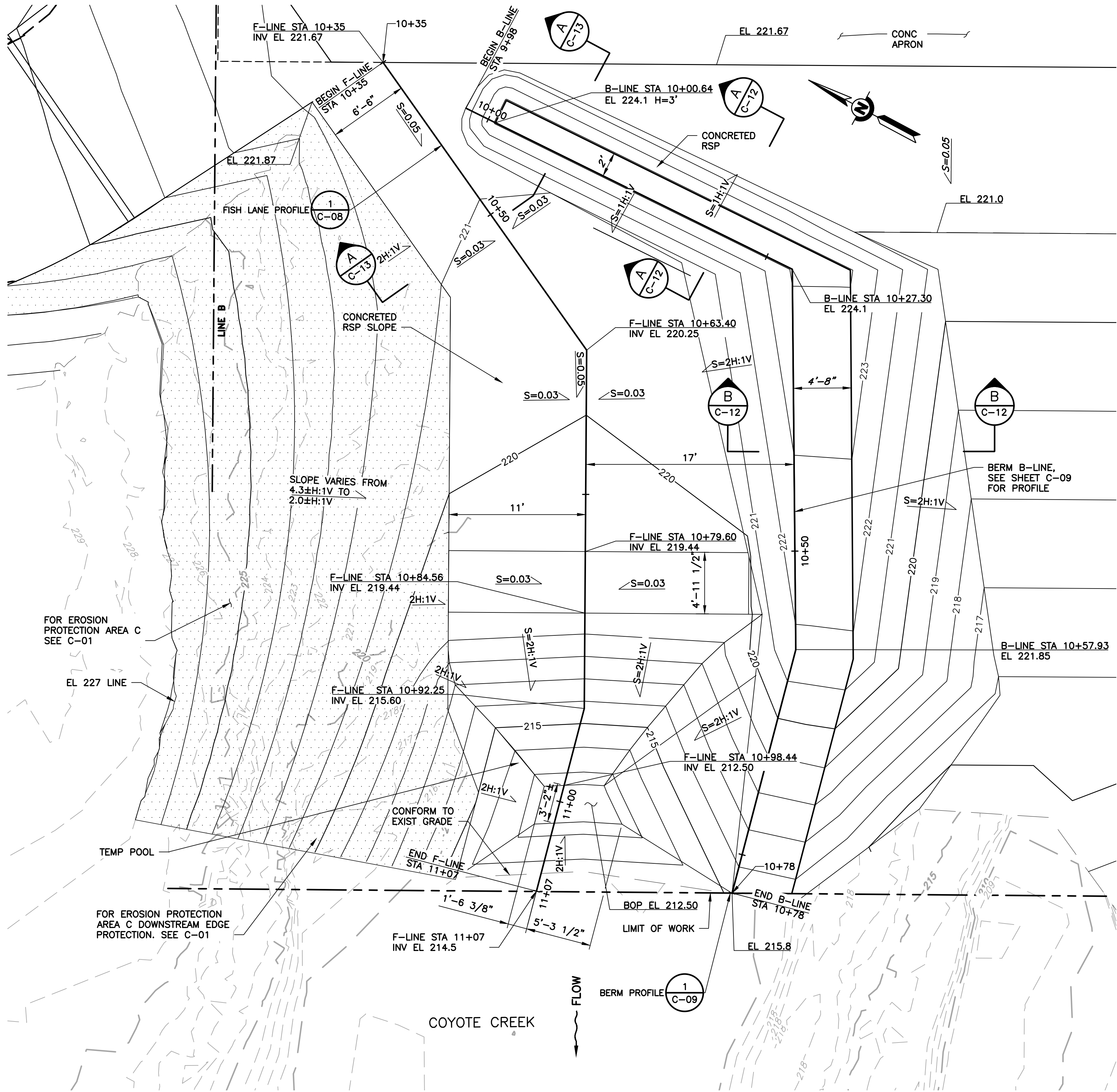
PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
WEIR RETROFIT SECTIONS AND DETAILS

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

PROJECT NUMBER
91864009
SHEET CODE:
C-06
SHEET NUMBER:
22

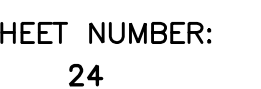
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DOCUMENT NUMBER: C00-C-9248-75865



DETAIL 1 FISH LANE PLAN
C-01 SCALE: 1" = 5'-0"

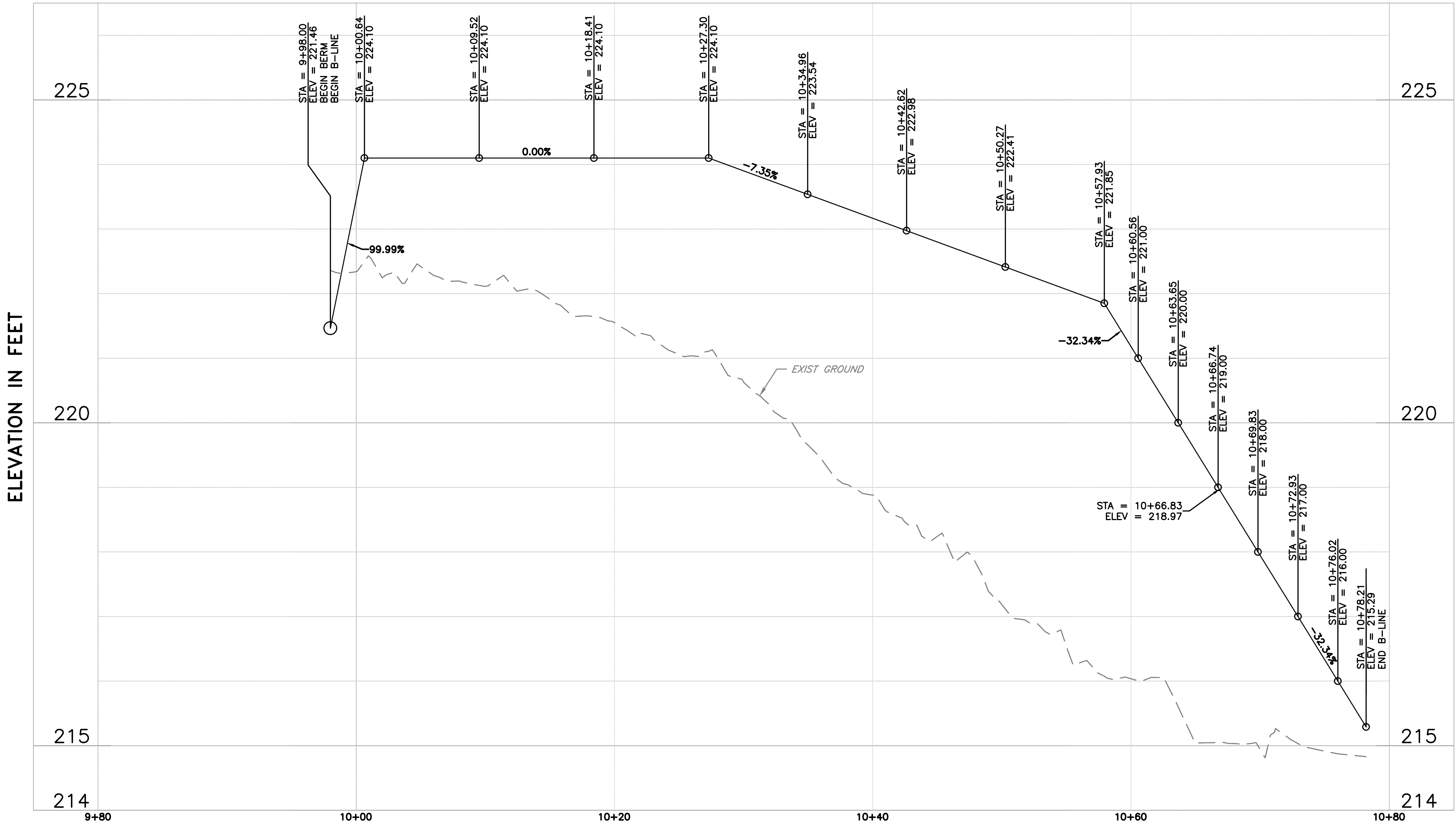
REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
					DESIGN			FISH LANE PLAN	VERIFY SCALES	SHEET CODE:
					DRAWN				0 1"	C-07
					CHECKED				BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER:
					K. NEUMAN	PROJECT ENGINEER	DATE			23



SCALE AS SHOWN	PROJECT NUMBER 91864009
VERIFY SCALES  BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-08 SHEET NUMBER: 24

USERNAME: Tungron 1/12/2023 4:46 PM
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DOCUMENT NUMBER: C00-C-9248-75867

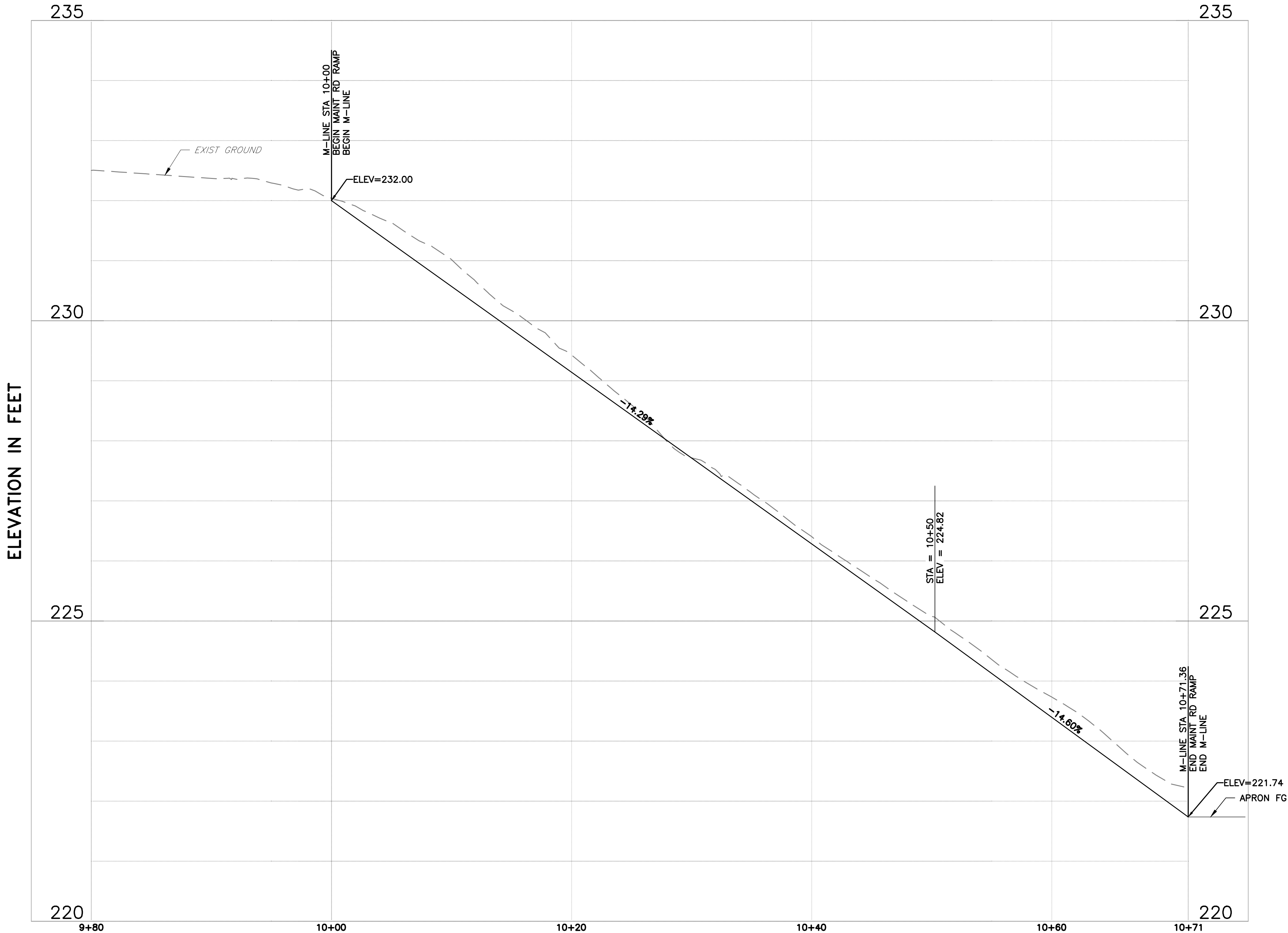


DETAIL 1 BERM (B-LINE) PROFILE
C-07 SCALE: HORZ. 1"=5', VERT. 1"=1'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					JAN 2023	REGISTERED PROFESSIONAL ENGINEER Y. LEE No. C42456 CIVIL STATE OF CALIFORNIA		FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
					DRAWN R. SAINI			BERM PROFILE STA 9+98 TO STA 10+78	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-09
					CHECKED K. NEUMAN	PROJECT ENGINEER	DATE			SHEET NUMBER: 25

USERNAME: OscarReyn 1/12/2023 4:46 PM
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DOCUMENT NUMBER: C00-C-9248-75868



1
C-01

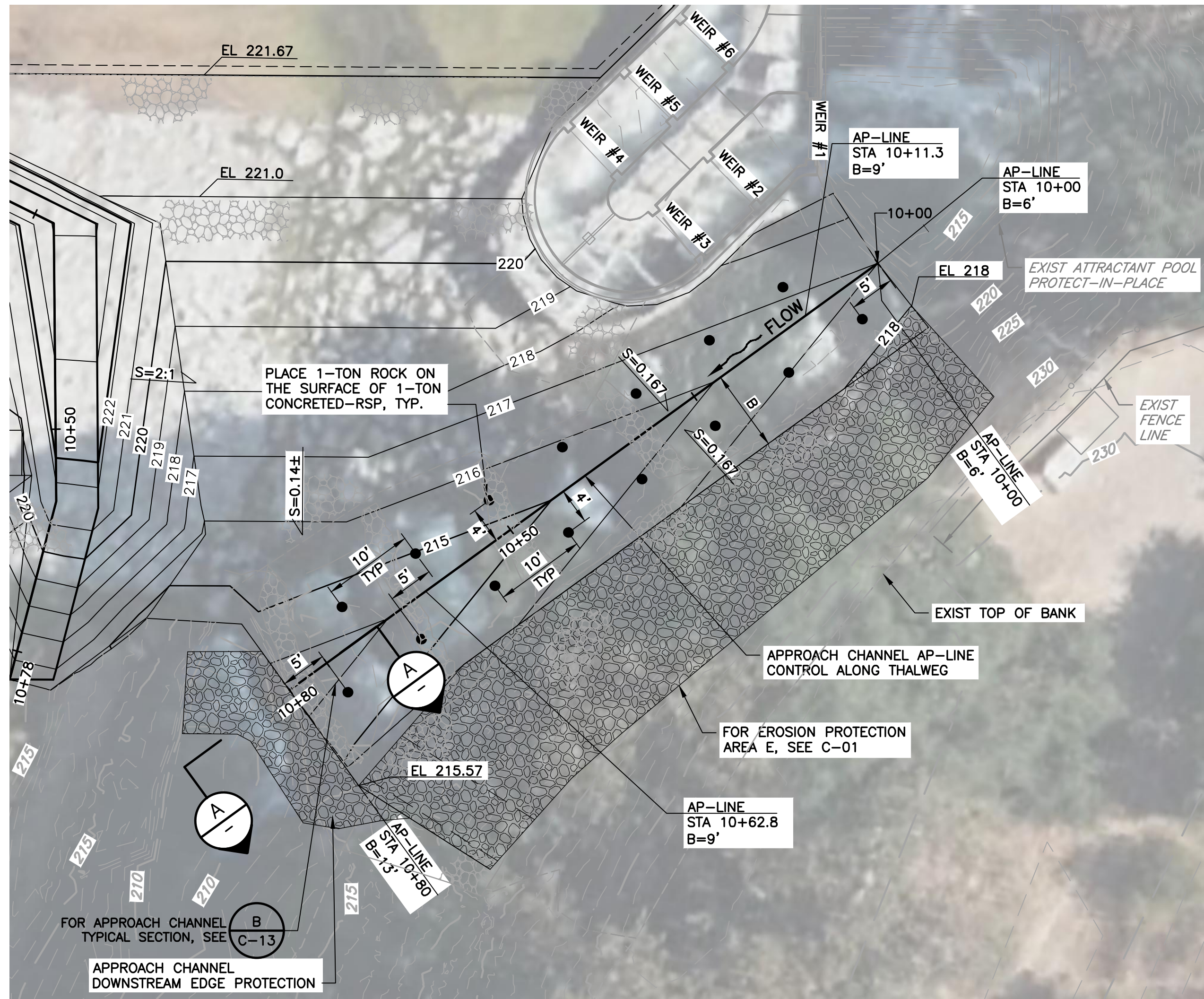
M-LINE MAINTENANCE ROAD RAMP PROFILE

HORIZ: 1" = 5'
VERT: 1" = 1'

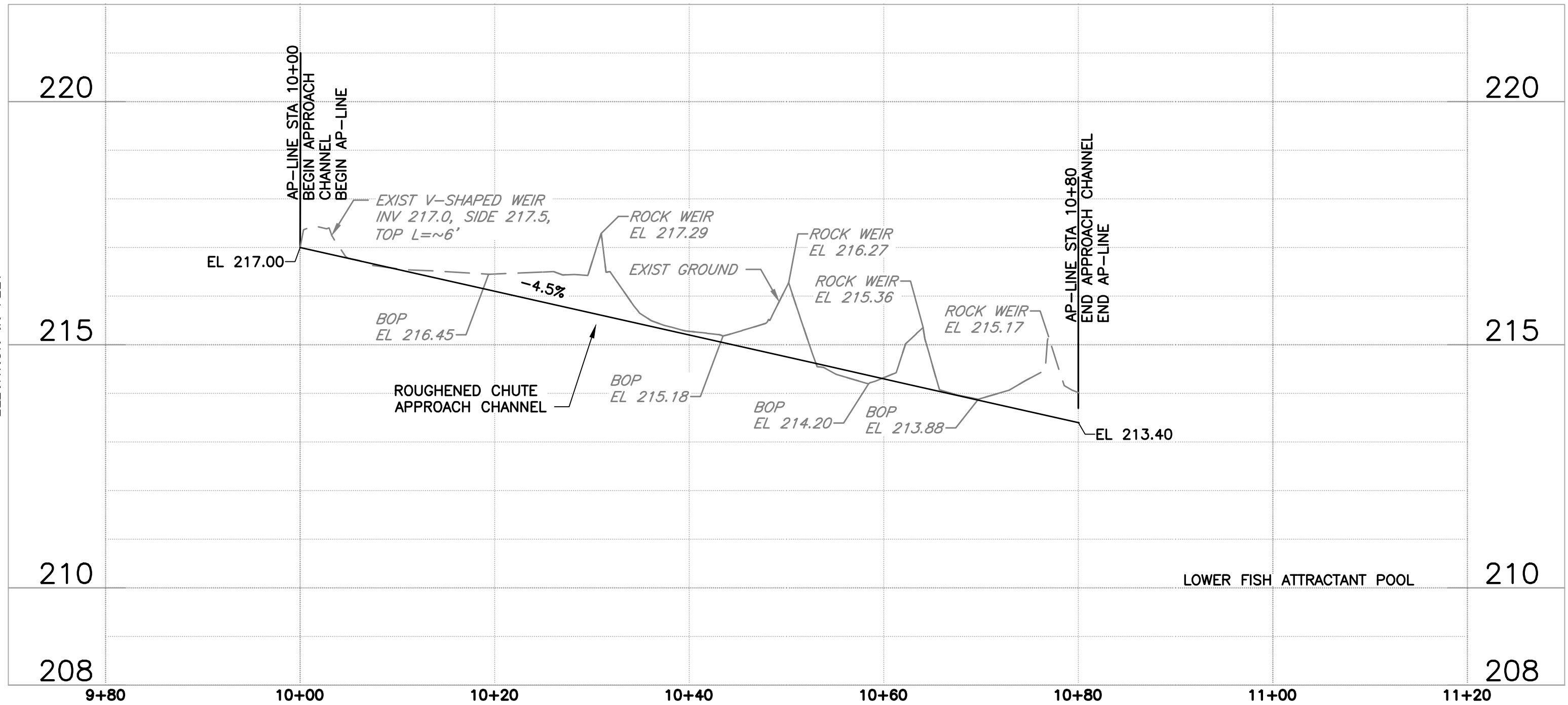
REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
					JAN 2023	REGISTERED PROFESSIONAL ENGINEER Y. LEE No. C42456 CIVIL STATE OF CALIFORNIA PROJECT ENGINEER DATE		FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT MAINTENANCE ROAD RAMP PROFILE M-LINE STA 10+00 TO 10+71	0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	91864009
				DESIGN Y. LEE	SHEET CODE: C-10					
				DRAWN R. SAINI	SHEET NUMBER: 26					
				CHECKED K. NEUMAN						

USERNAME: OscarReyn 1/12/2023 4:47 PM
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DOCUMENT NUMBER: C00-C-9248-75869



1
C-01 **PLAN**
SCALE: 1" = 10'

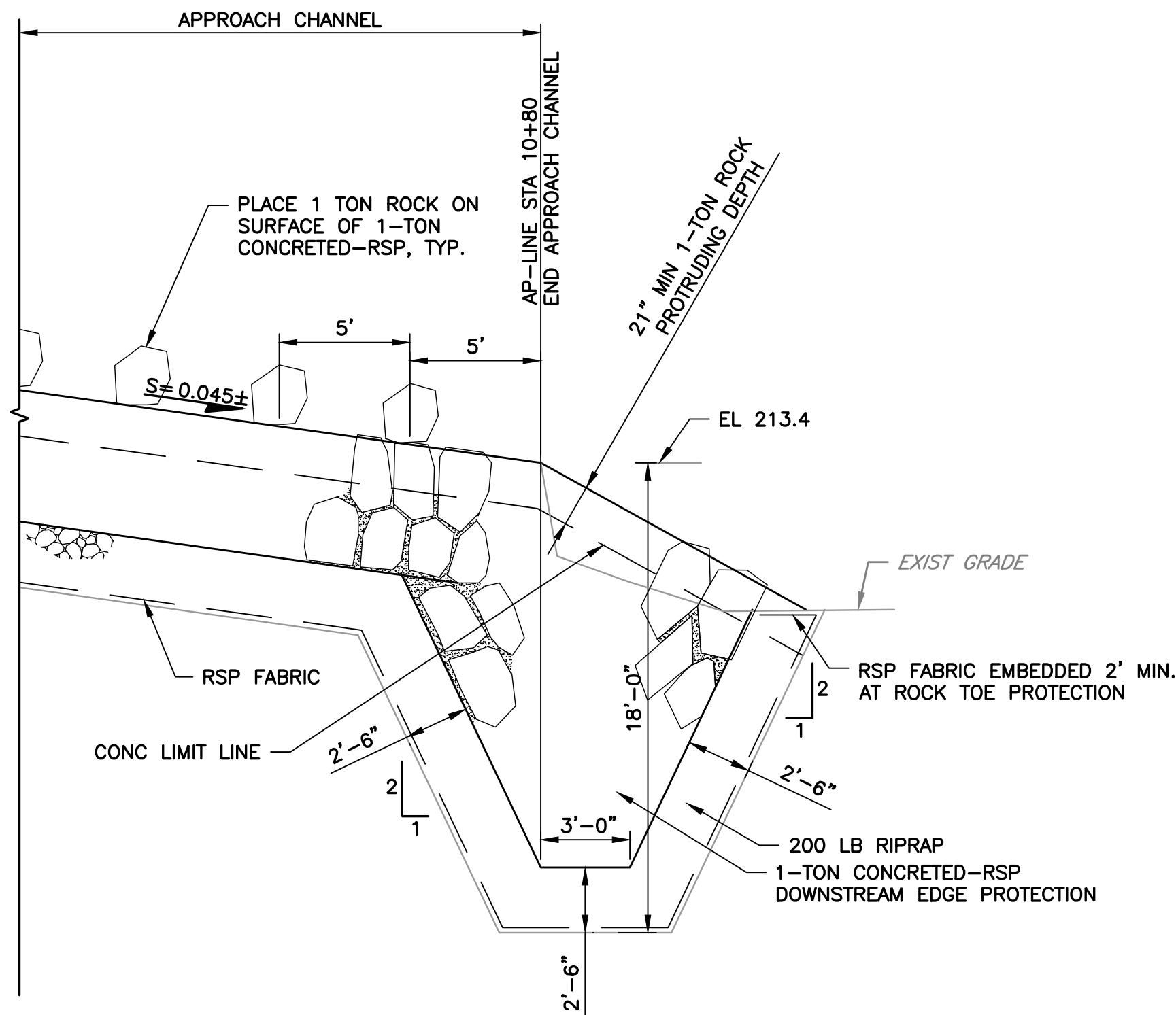


APPROACH CHANNEL (AP-LINE) PROFILE

SCALE: HORIZ: 1" = 10'
VERT: 1" = 2'

NOTE:

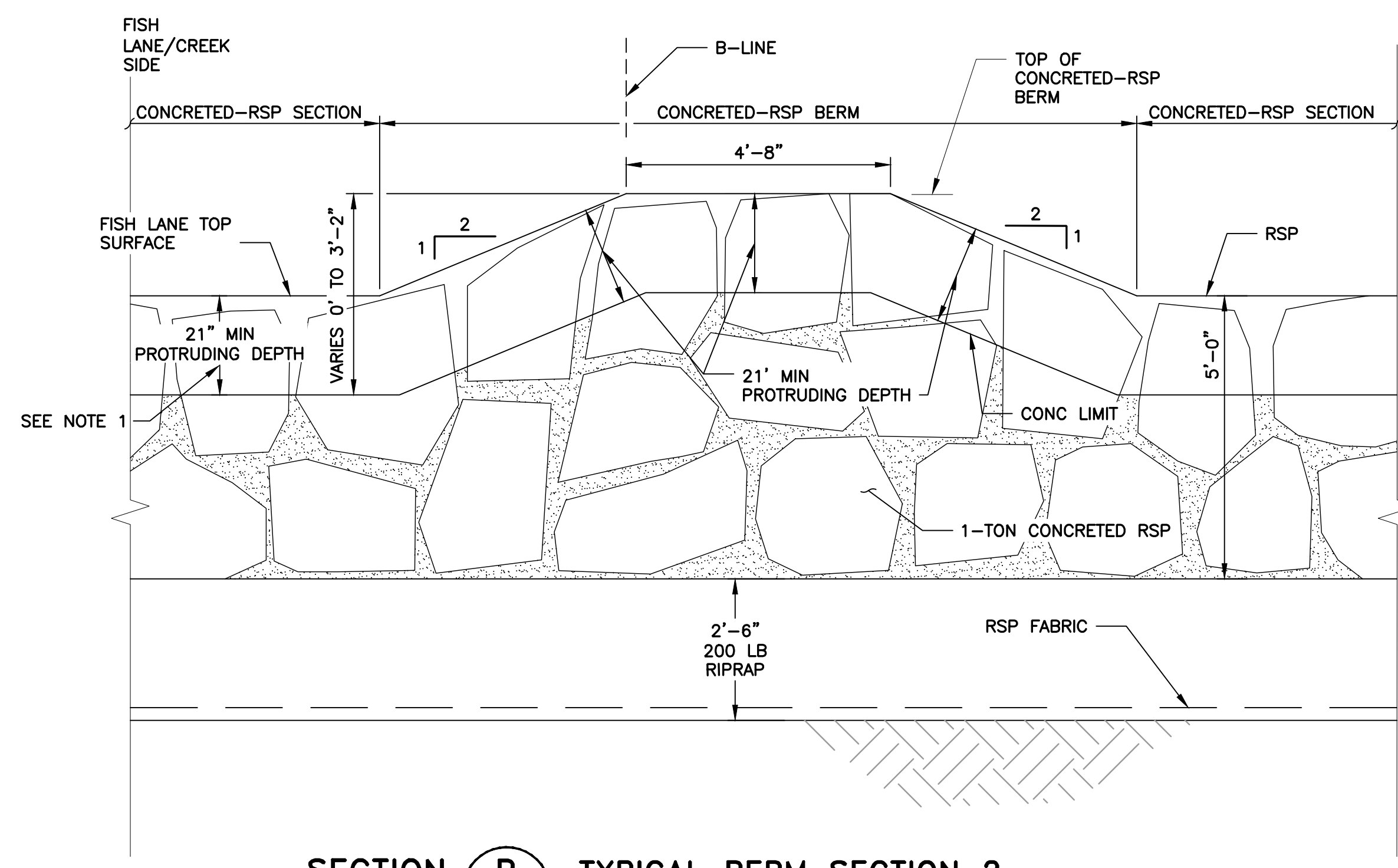
1. SEE SHT-13 FOR 1-TON ROCK GRADATION AND PLACEMENT METHOD.



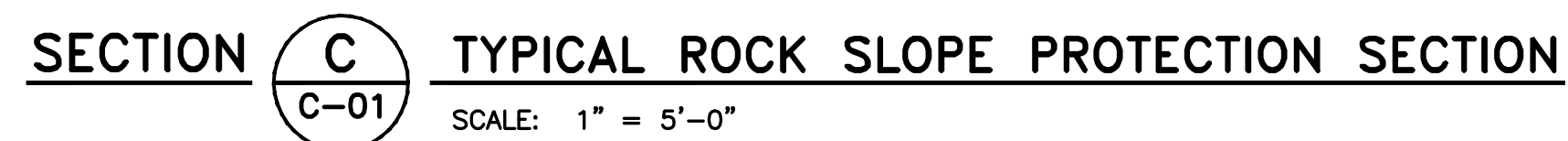
SECTION A **APPROACH CHANNEL DOWNSTREAM EDGE PROTECTION**

SCALE: 1" = 5'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
					DESIGN			APPROACH CHANNEL PLAN, SECTIONS AND PROFILE STA 10+00 TO STA 10+80	VERIFY SCALES	SHEET CODE:
					DRAWN					C-11
					CHECKED				BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER:
					K. NEUMAN					27



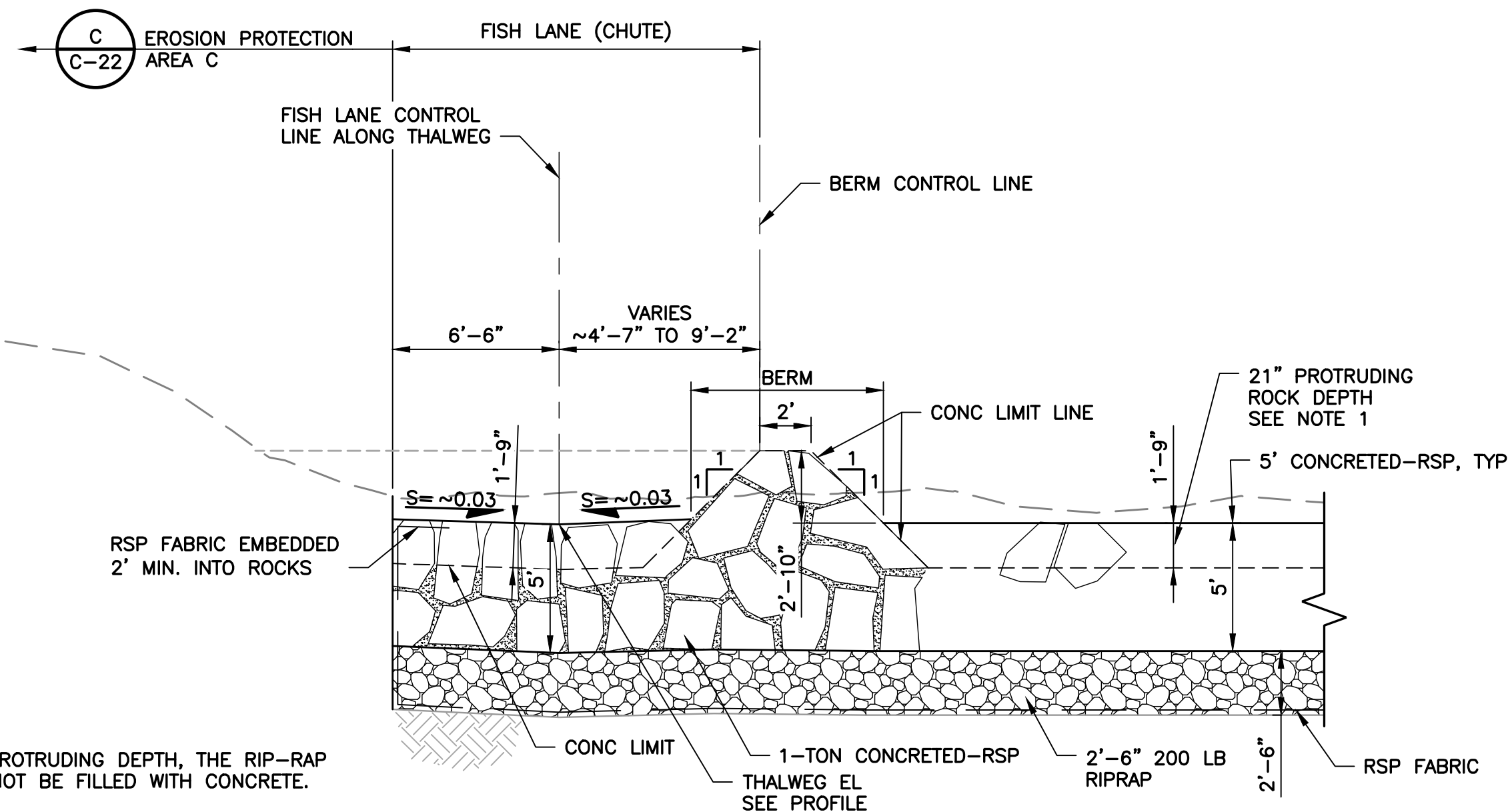
SECTION **(B)** **TYPICAL BERM SECTION 2**
C-07 **B-LINE STA 10+27 TO 10+78**
 SCALE: 1" = 2'-0"



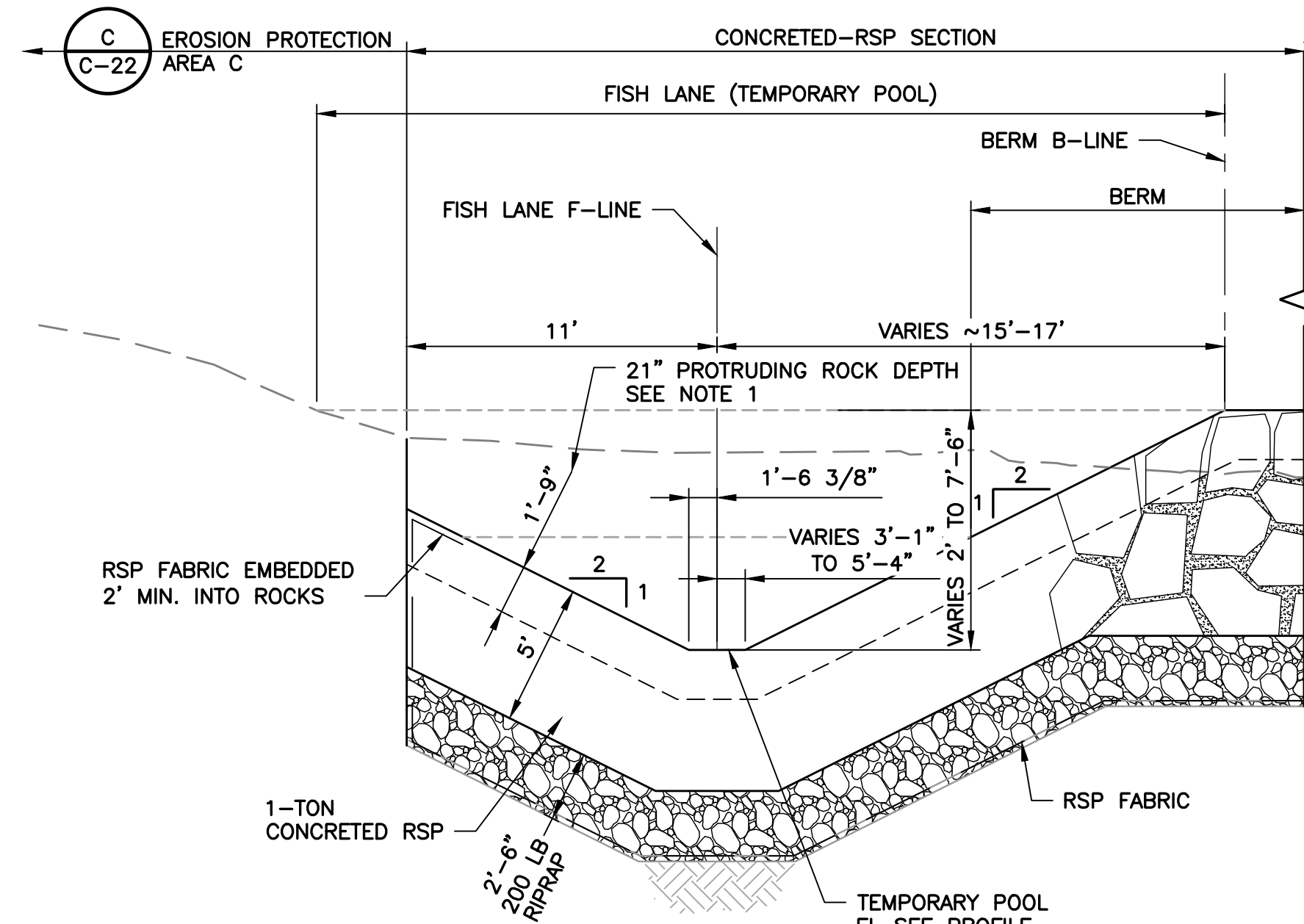
Attachment 3
28 of 106

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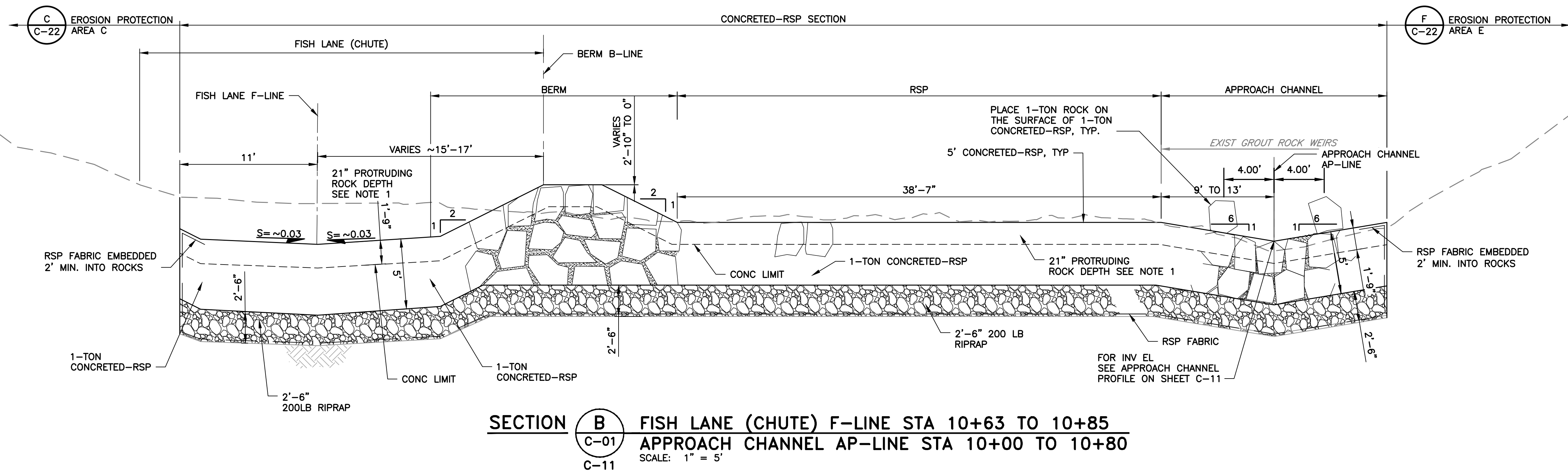
DOCUMENT NUMBER: C00-C-9248-75871



SECTION **A** FISH LANE (CHUTE)
C-07 F-LINE STA 10+35 TO 10+63
SCALE: 1" = 5'



SECTION **C** FISH LANE (TEMPORARY POOL)
C-01 F-LINE STA 10+85 TO 11+06
SCALE: 1" = 5'



SECTION **B** FISH LANE (CHUTE) F-LINE STA 10+63 TO 10+85
C-01 APPROACH CHANNEL AP-LINE STA 10+00 TO 10+80
C-11 SCALE: 1" = 5'

75 LB RIPRAP GRADATION				
STANDARD ROCK SIZE OR ROCK MASS OR ROCK WEIGHT		GRADING OF ROCK SLOPE PROTECTION (PERCENTAGE LARGER THAN)		
		OUTER/INNER LAYERS RSP-CLASS		
		METHOD B (DUMPING IS ACCEPTABLE) PLACEMENT		
		OUTER/INNER LAYERS RSP-CLASS		
US UNIT	SI UNIT	200 LB	75 LB	25 LB
75 LB	34 KG	0-5	50-100	90-100

200 LB/LIGHT RIPRAP GRADATION				
STANDARD ROCK SIZE OR ROCK MASS OR ROCK WEIGHT		GRADING OF ROCK SLOPE PROTECTION (PERCENTAGE LARGER THAN)		
		INNER LAYERS RSP-CLASS		
		METHOD B (DUMPING IS ACCEPTABLE) PLACEMENT		
		INNER LAYERS RSP-CLASS		
US UNIT	SI UNIT	1/4 TON	200 LB	25 LB
200 LB	90 KG	0-5	50-100	95-100

300 LB RIPRAP GRADATION				
STANDARD ROCK SIZE OR ROCK MASS OR ROCK WEIGHT		GRADING OF ROCK SLOPE PROTECTION (PERCENTAGE LARGER THAN)		
		OUTER/INNER LAYERS RSP-CLASS		
		METHOD B (DUMPING IS ACCEPTABLE) PLACEMENT		
		OUTER/INNER LAYERS RSP-CLASS		
US UNIT	SI UNIT	1/4 TON	300 LB	75 LB
300 LB	136 KG	0-5	50-100	95-100

1-TON ROCK GRADATION				
STANDARD ROCK SIZE OR ROCK MASS OR ROCK WEIGHT		GRADING OF ROCK SLOPE PROTECTION (PERCENTAGE LARGER THAN)		
		RSP-CLASSES (A)		
		METHOD A (NO DUMPING) PLACEMENT		
		RSP-CLASSES OTHER THAN BACKING		
US UNIT	SI UNIT	2 TON	1 TON	1/2 TON
1 TON	900 KG	0-5	50-100	95-100

NOTE:
DIMENSION OF 1-TON ROCK: APPROX. 30"
DIMENSION OF 300 LB ROCK: APPROX. 15"
DIMENSION OF 200 LB ROCK: APPROX. 13"
DIMENSION OF 75 LB ROCK: APPROX. 10"

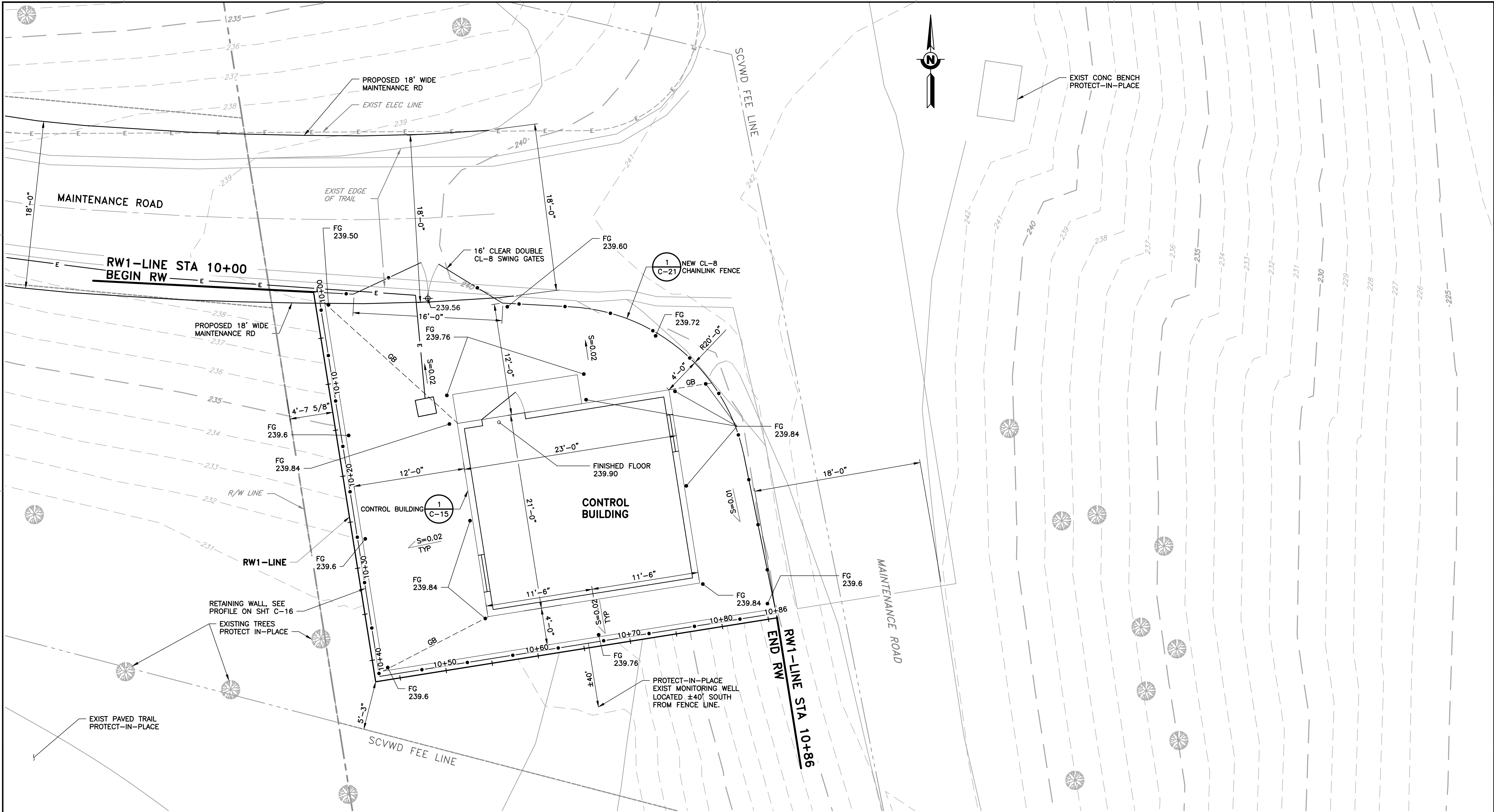
REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE JAN 2023	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN Y. LEE		
DRAWN R. SAINI	CIVIL	
CHECKED K. NEUMAN	PROJECT ENGINEER	DATE

PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT FISH LANE, APPROACH CHANNEL TYPICAL SECTIONS		SCALE AS SHOWN VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91864009 SHEET CODE: C-13 SHEET NUMBER: 29
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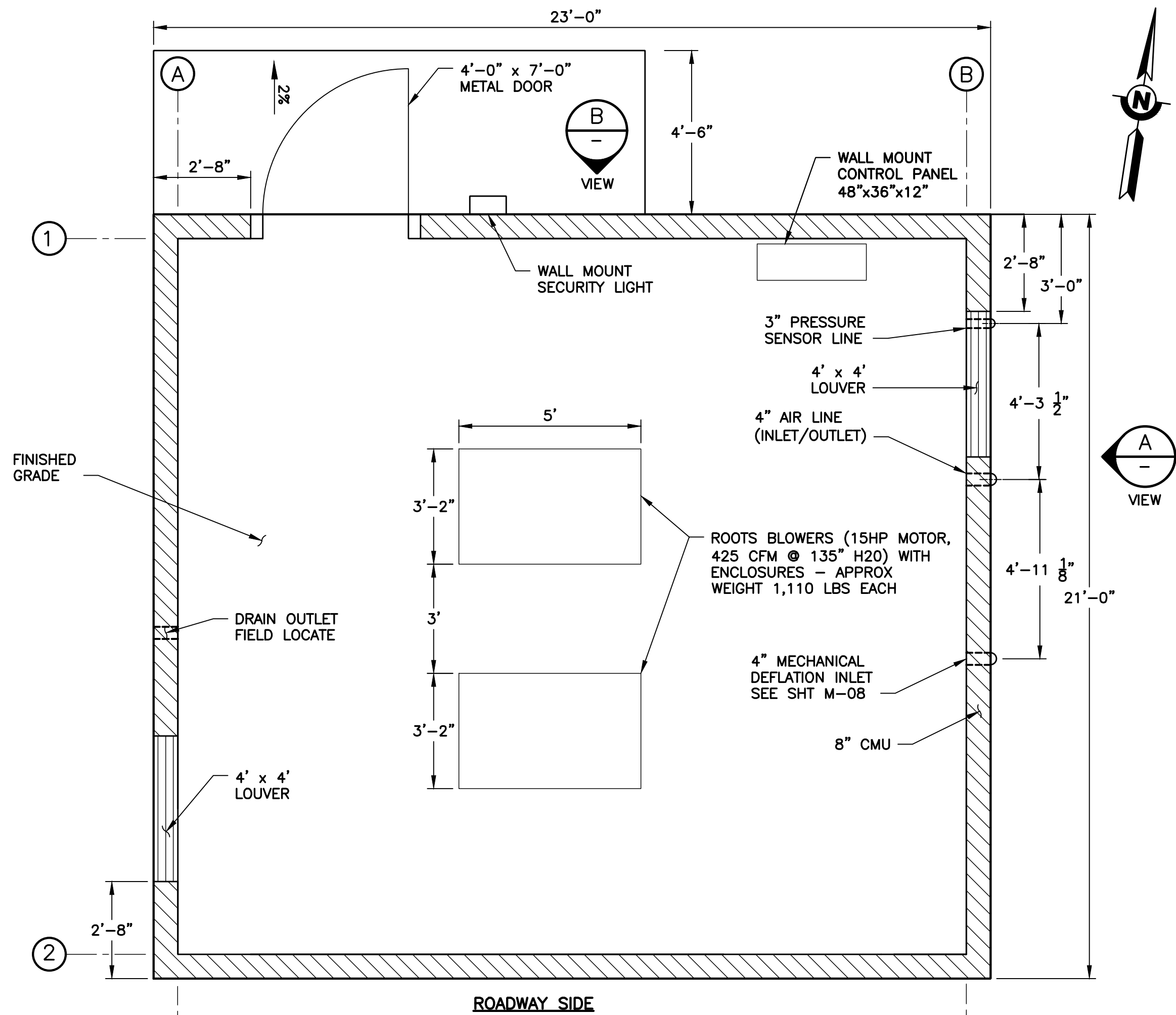
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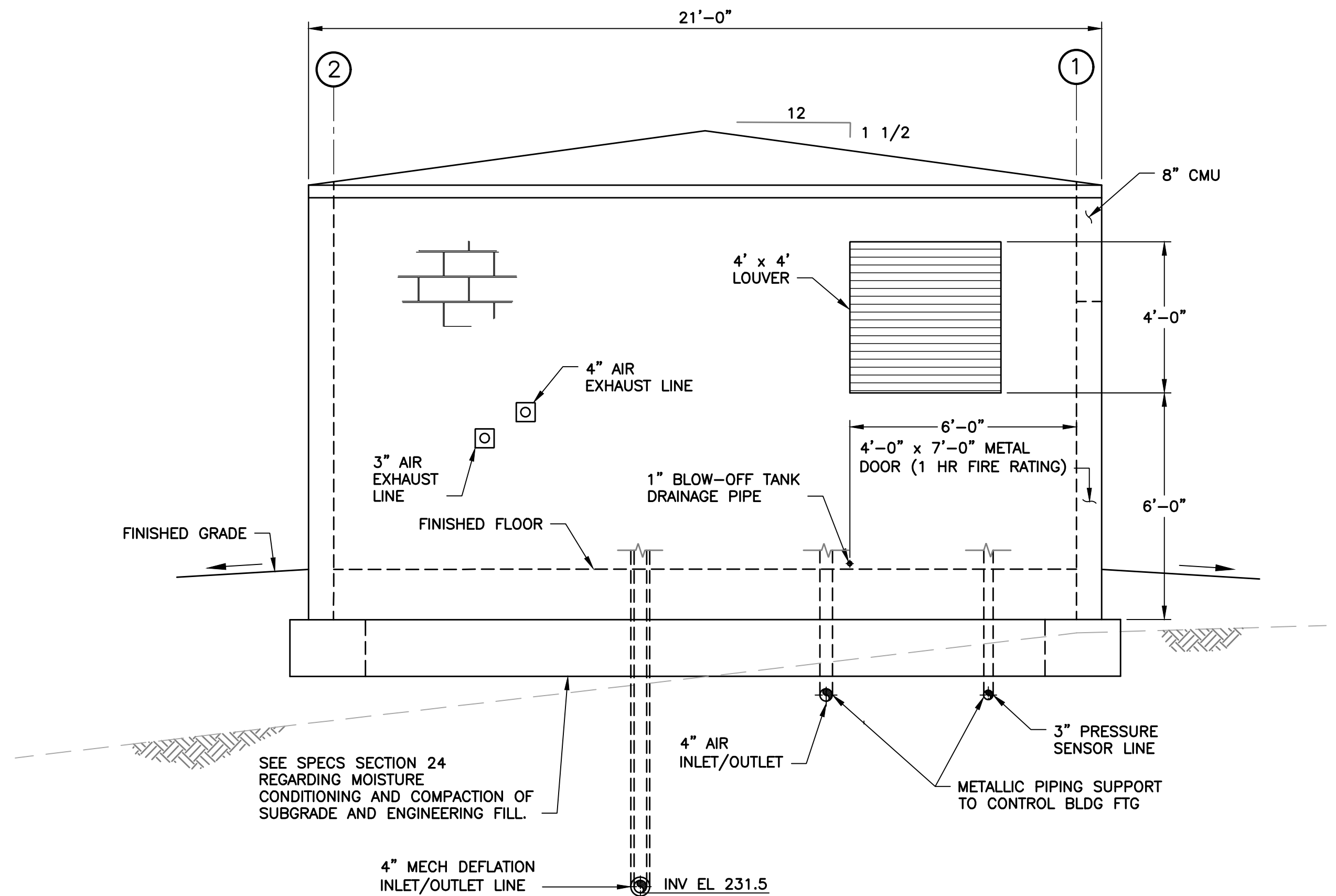
1 PLAN
C-01 SCALE: 1" = 5'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
					JAN 2023	REGISTERED PROFESSIONAL ENGINEER Y. LEE No. C42456 CIVIL STATE OF CALIFORNIA		FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	91864009
					DRAWN R. SAINI			CONTROL BUILDING SITE PLAN		SHEET CODE: C-14
					CHECKED K. NEUMAN					SHEET NUMBER: 30
					PROJECT ENGINEER	DATE				Attachment 3 30 of 106

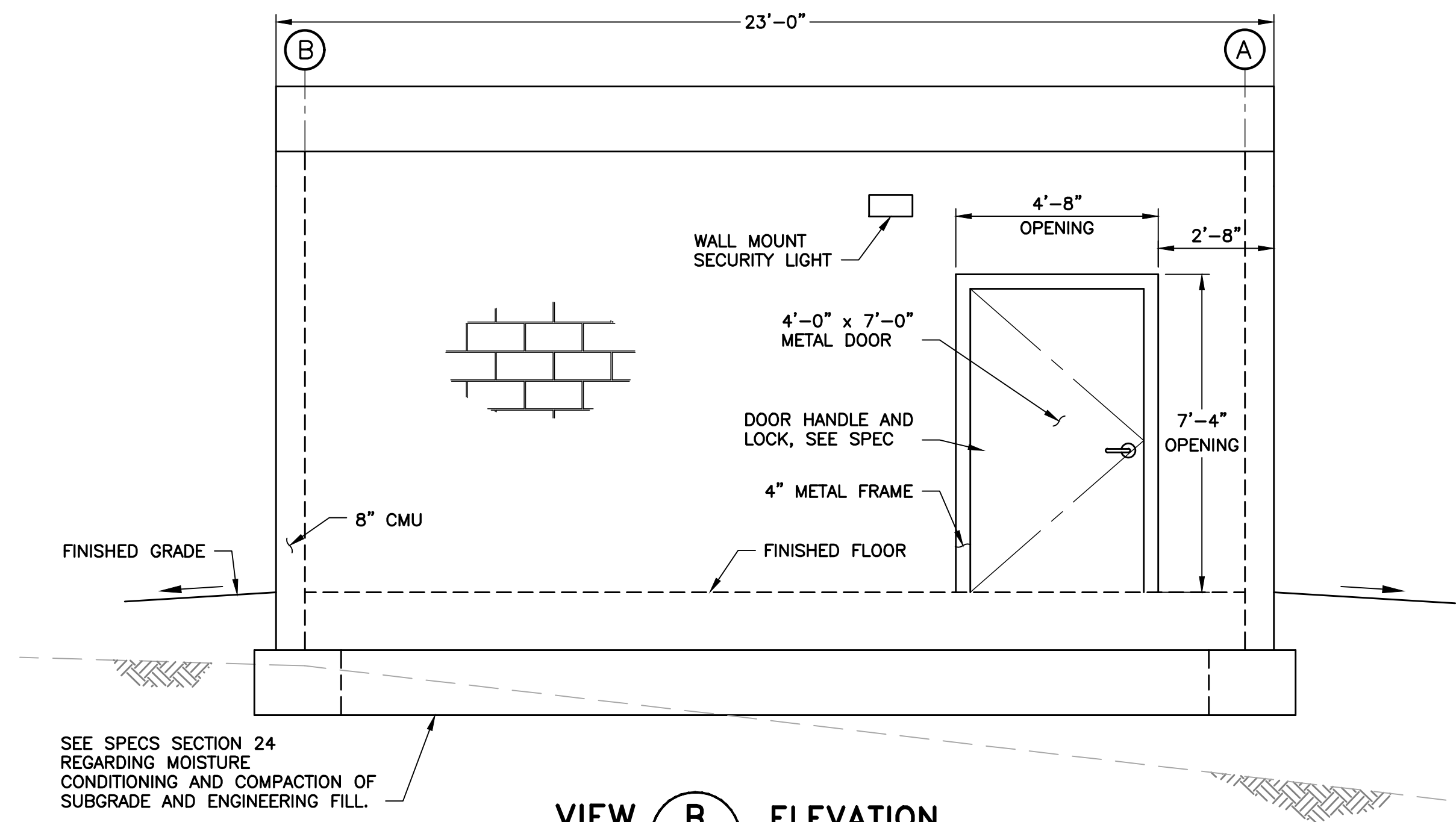
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DOCUMENT NUMBER: C00-C-9248-75873



DETAIL 1
C-14 **TYPICAL BLOCK CONTROL BUILDING**
PLAN VIEW - FLOOR
SCALE: 3/8" = 1'-0"



VIEW A **ELEVATION**
SCALE: 3/8" = 1'-0"



VIEW B **ELEVATION**
SCALE: 3/8" = 1'-0"

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
				1. SEE M-SHEET FOR PIPING IN CONTROL BUILDING, S-SHEET FOR CONTROL BUILDING DETAILED INFORMATION, AND E-SHEET FOR ELECTRICAL INFORMATION IN CONTROL BUILDING	JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
								CONTROL BUILDING DETAILS	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-15 SHEET NUMBER: 31

4

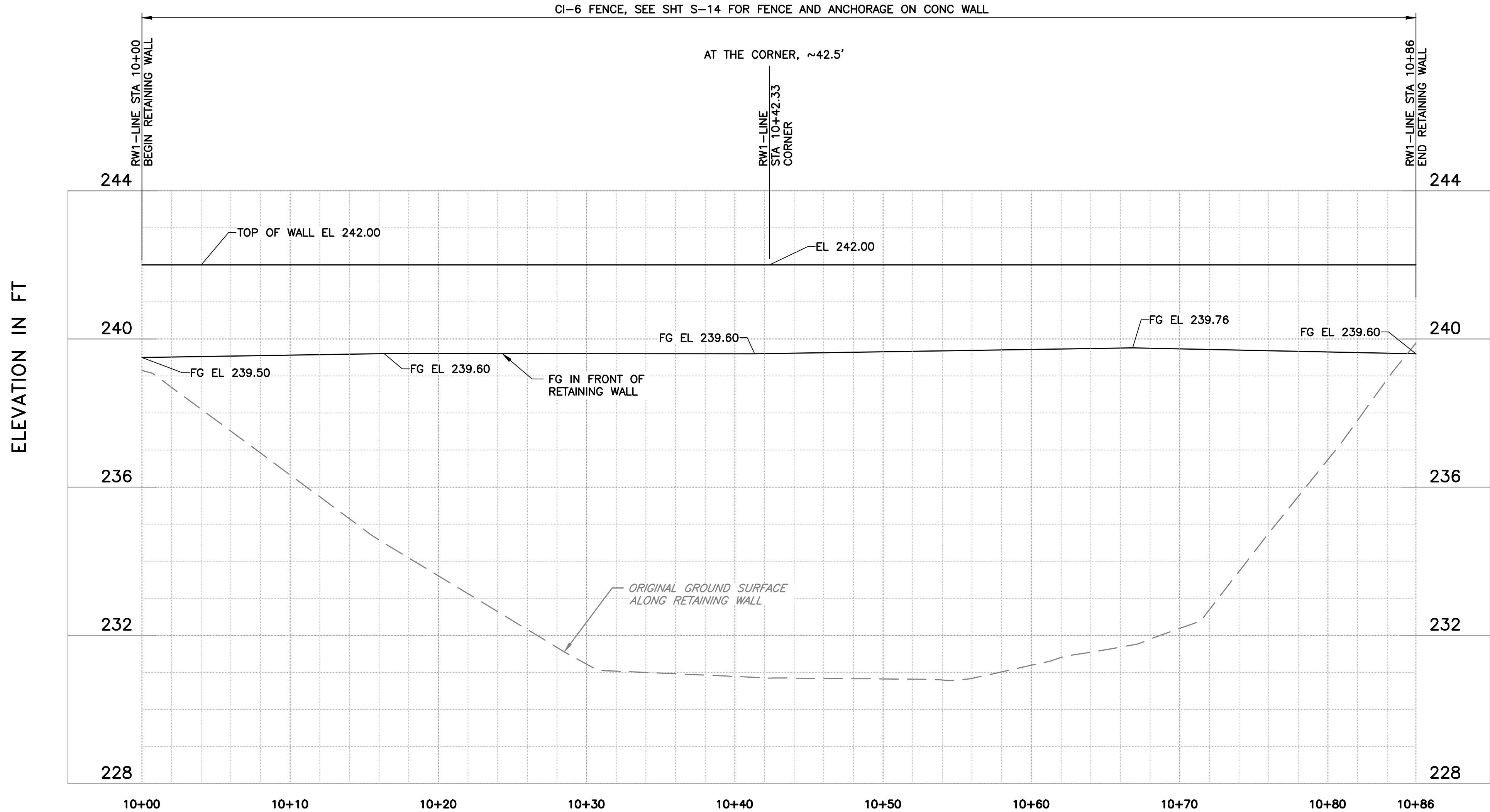
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2

DOCUMENT NUMBER: C00-C-9248-75874

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REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
				SEE SPECS SECTION 24 REGARDING MOISTURE CONDITIONING AND COMPACTION OF SUBGRADE AND ENGINEERING FILL.	JAN 2023	REGISTERED PROFESSIONAL ENGINEER Y. LEE No. C42456 CIVIL STATE OF CALIFORNIA	Valley Water	FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
								RETAINING WALL PROFILE STA 10+00 TO STA 10+86	VERIFY SCALES 01"BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-16 SHEET NUMBER: 32



RW1-LINE PROFILE

HORIZ: 1" = 20'

VERT: 1" = 4'

4

USERNAME: OscarReyn 1/12/2023 4:49 PM
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2

DOCUMENT NUMBER: C00-C-9248-75875

1

REV	DESCRIPTION	DATE	APPR

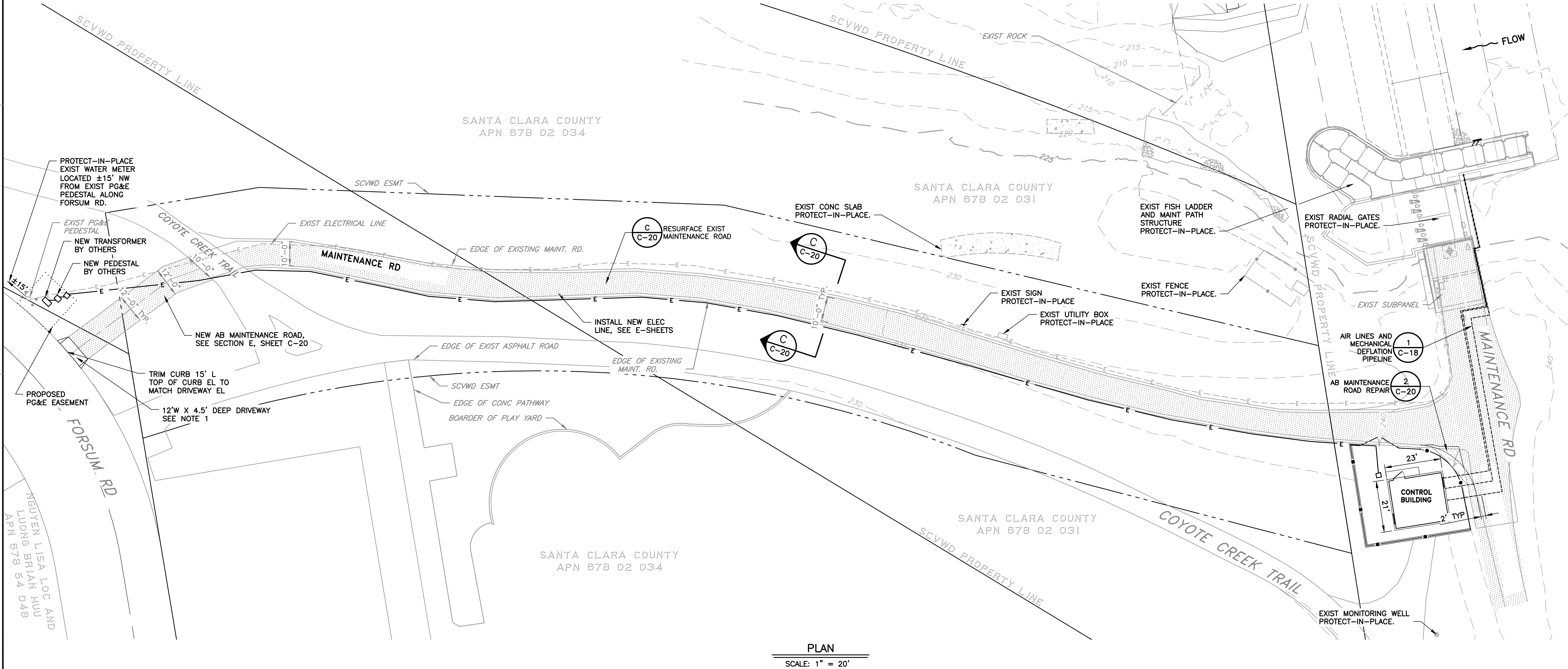
REFERENCE INFORMATION AND NOTES	
1.	FOR DRIVEWAY DETAILS, SEE CITY OF SAN JOSE STANDARD DETAIL DRAWING NO. R-5. INSTALL DRIVEWAY CENTERED TO THE CENTER LINE OF THE NEW MAINTENANCE ROAD.

DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
JAN 2023		
DESIGN		
DRAWN		
T. EVANS		
CHECKED	K. NEUMAN	PROJECT ENGINEER
DATE		

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
UTILITY PLAN

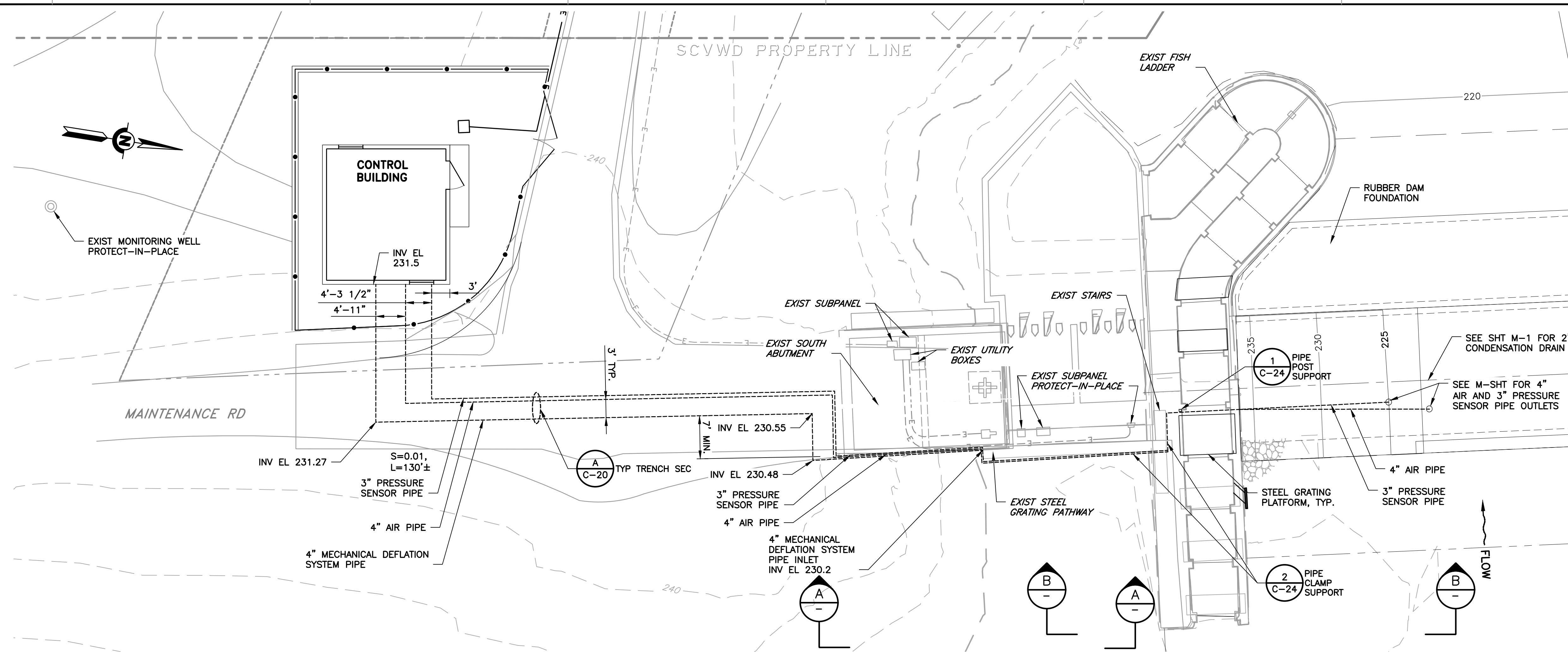
SCALE	PROJECT NUMBER
AS SHOWN	91864009
VERIFY SCALES	SHEET CODE:
0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	C-17
	SHEET NUMBER:
	33

SCALE	PROJECT NUMBER
AS SHOWN	91864009
VERIFY SCALES	SHEET CODE:
0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	C-17
	SHEET NUMBER:
	33

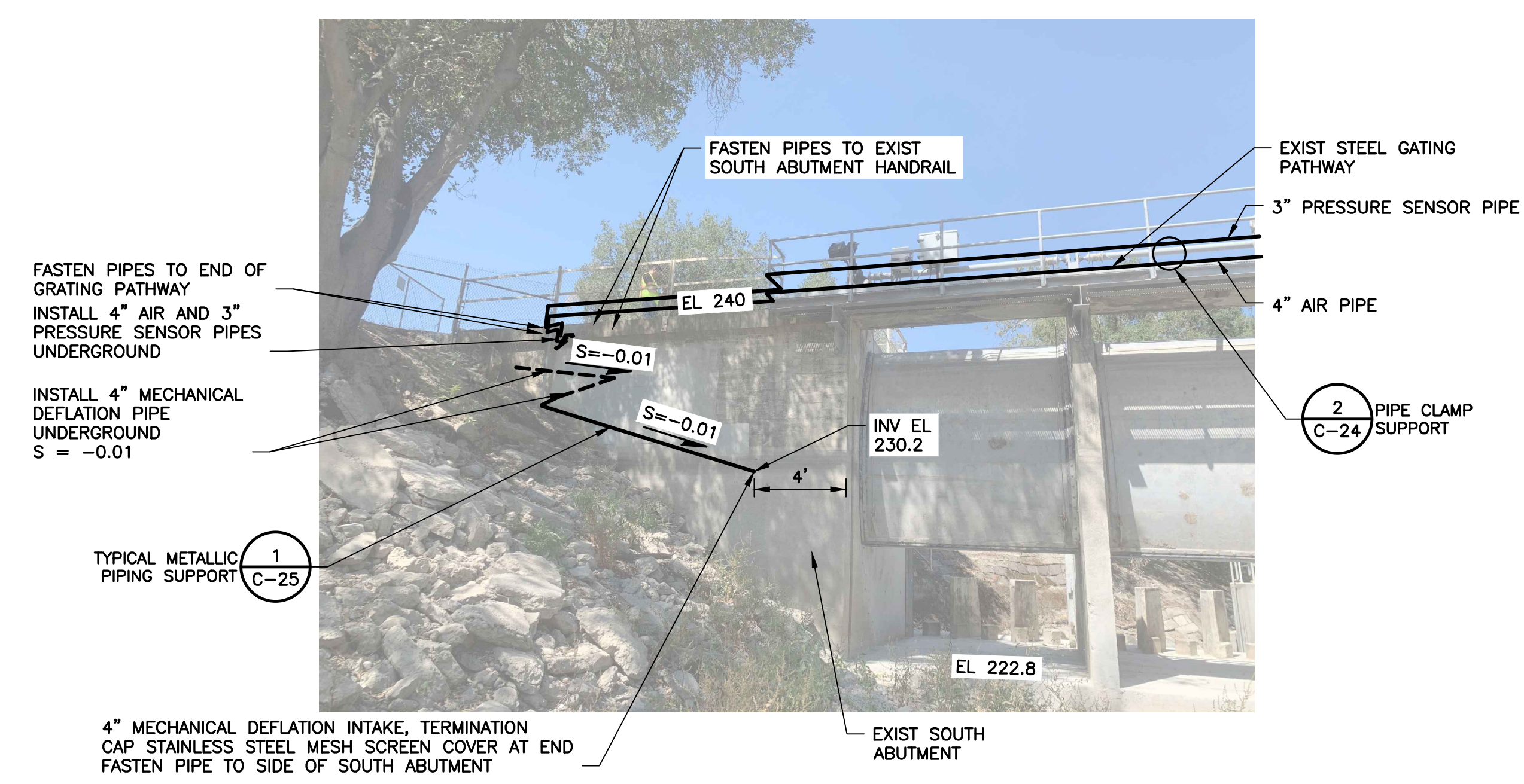


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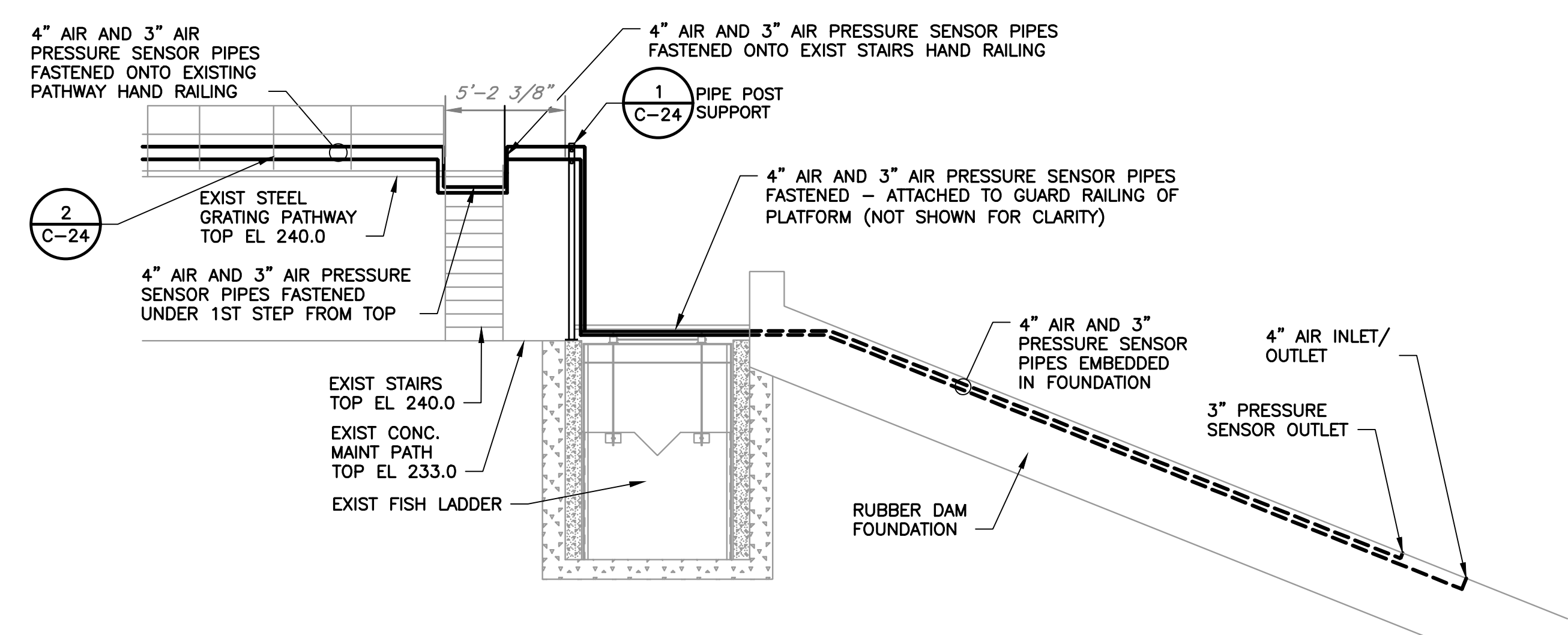
DOCUMENT NUMBER: C00-C-9248-75876



DETAIL 1
AIR LINES AND MECHANICAL DEFLATION PIPE LINE
SCALE: 1" = 10'-0"



VIEW A
AIR LINES VIEW
NOT TO SCALE



VIEW B
AIR LINES VIEW
SCALE: 1" = 5'-0"

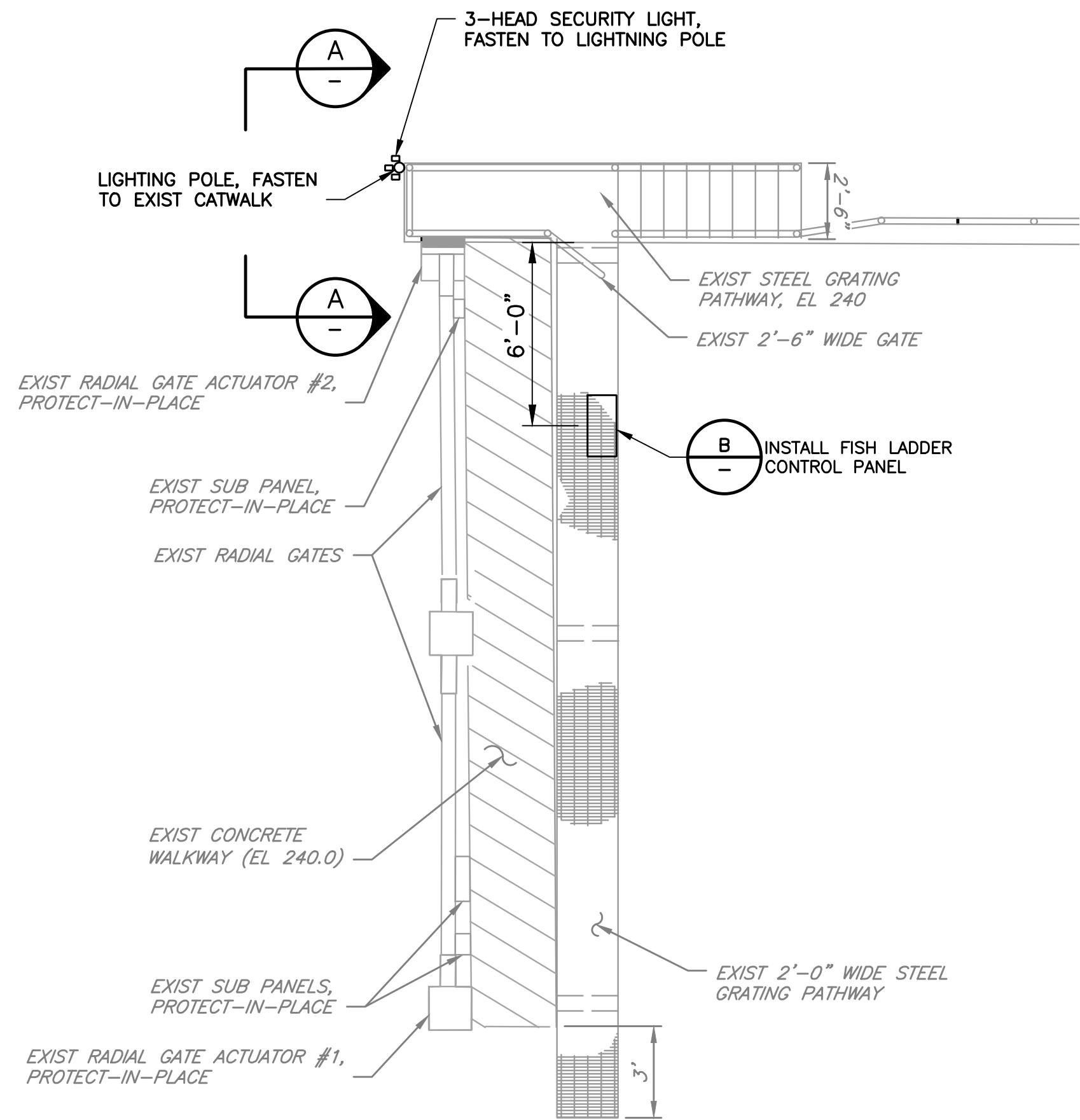
REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
					DESIGN Y. LEE				VERIFY SCALES	SHEET CODE:
					DRAWN T. EVANS				0 1"	C-18
					CHECKED K. NEUMAN				BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER:
						PROJECT ENGINEER	DATE	UTILITY PLAN AND SECTIONS		34

4

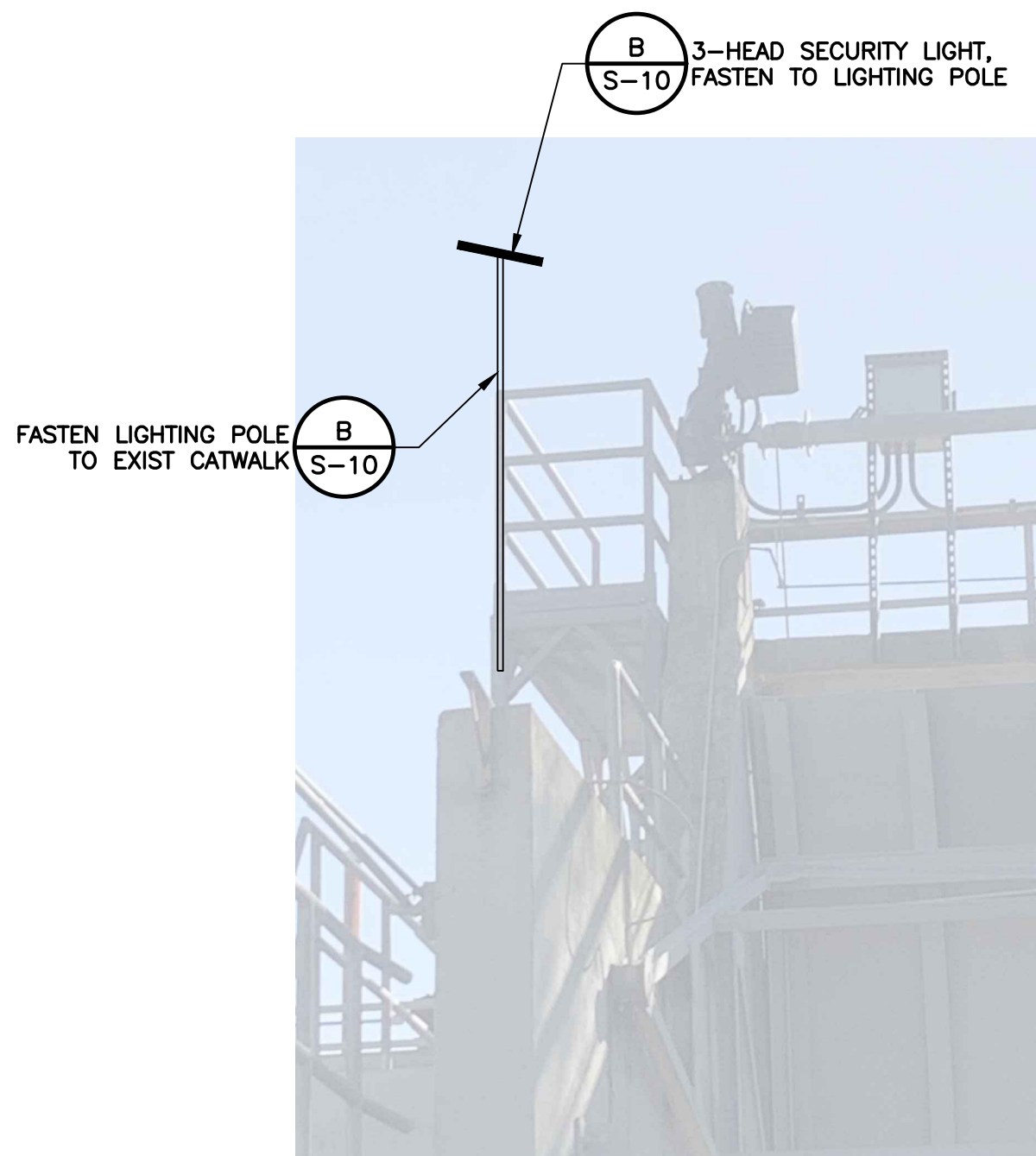
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2

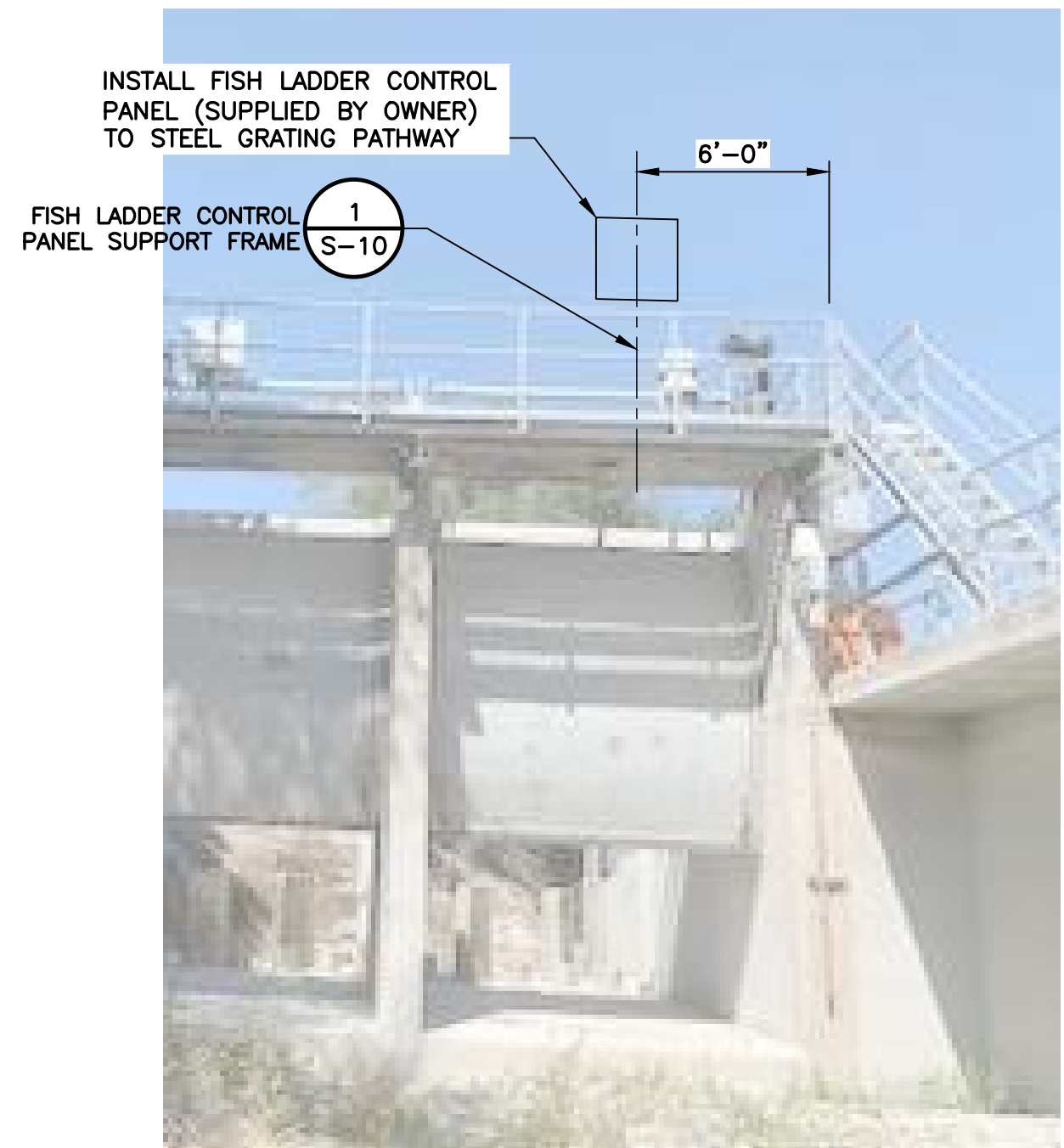
DOCUMENT NUMBER: COO-C-9248-75877



DETAIL 1 PLAN
C-01 SCALE: 1" = 4'



SECTION A LIGHTING POLE
SCALE: NTS



SECTION B FISH LADDER CONTROL PANEL
SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE JAN 2023	ENGINEERING CERTIFICATION
DESIGN Y. LEE	
DRAWN T. EVANS	
CHECKED K. NEUMAN	
PROJECT ENGINEER	

SANTA CLARA VALLEY WATER DISTRICT

 **Valley Water**

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
SECURITY LIGHT AND FISH LADDER CONTROL PANEL INSTALLATION

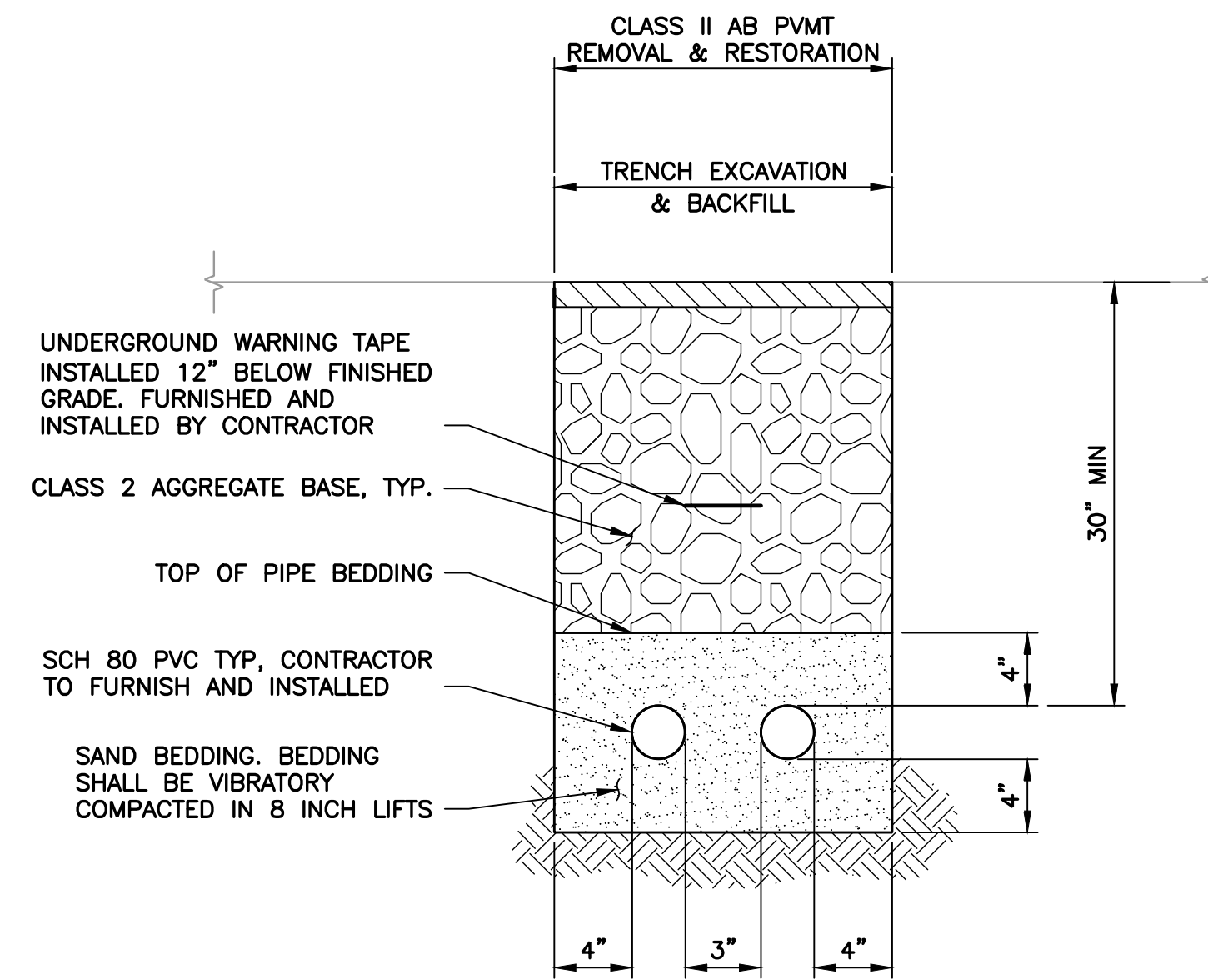
SCALE
AS SHOWN

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

PROJECT NUMBER
91864009

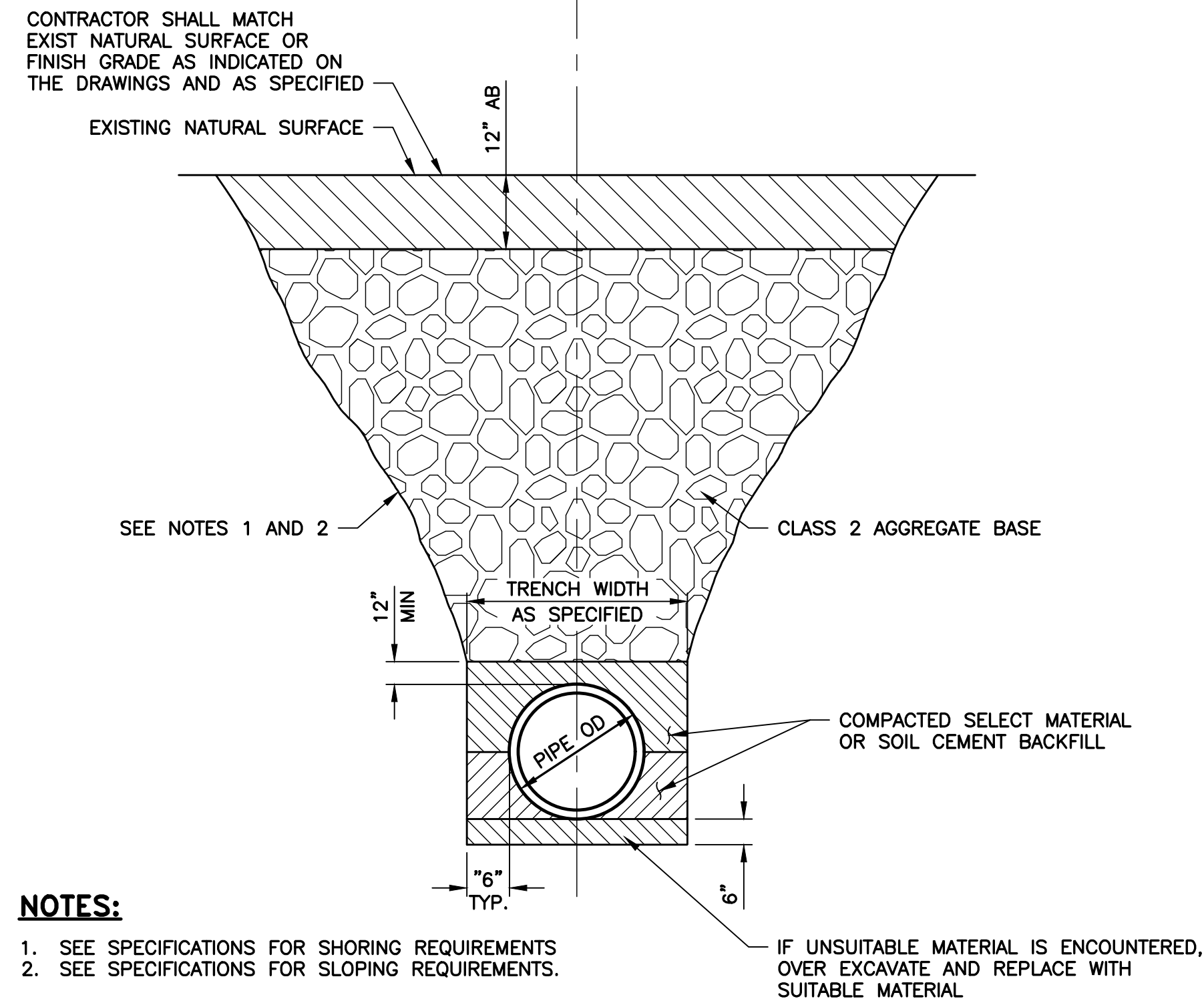
SHEET CODE:
C-19

SHEET NUMBER:
35

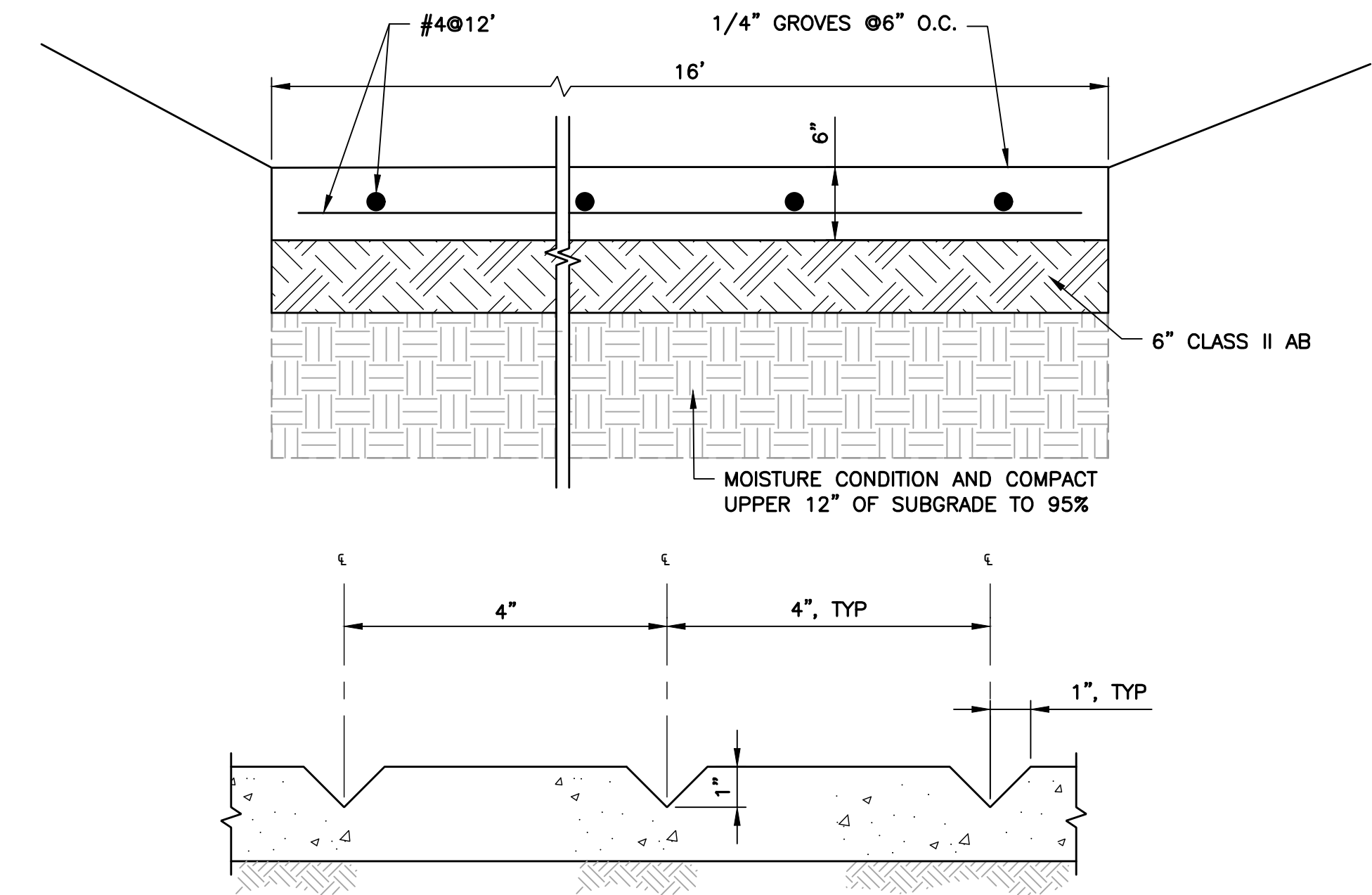


PRESSURE SENSOR PIPE AND AIR PIPE

NOTE: MINIMUM 1-FOOT VERTICAL CLEARANCE SHALL BE REQUIRED FROM ANY UTILITY.



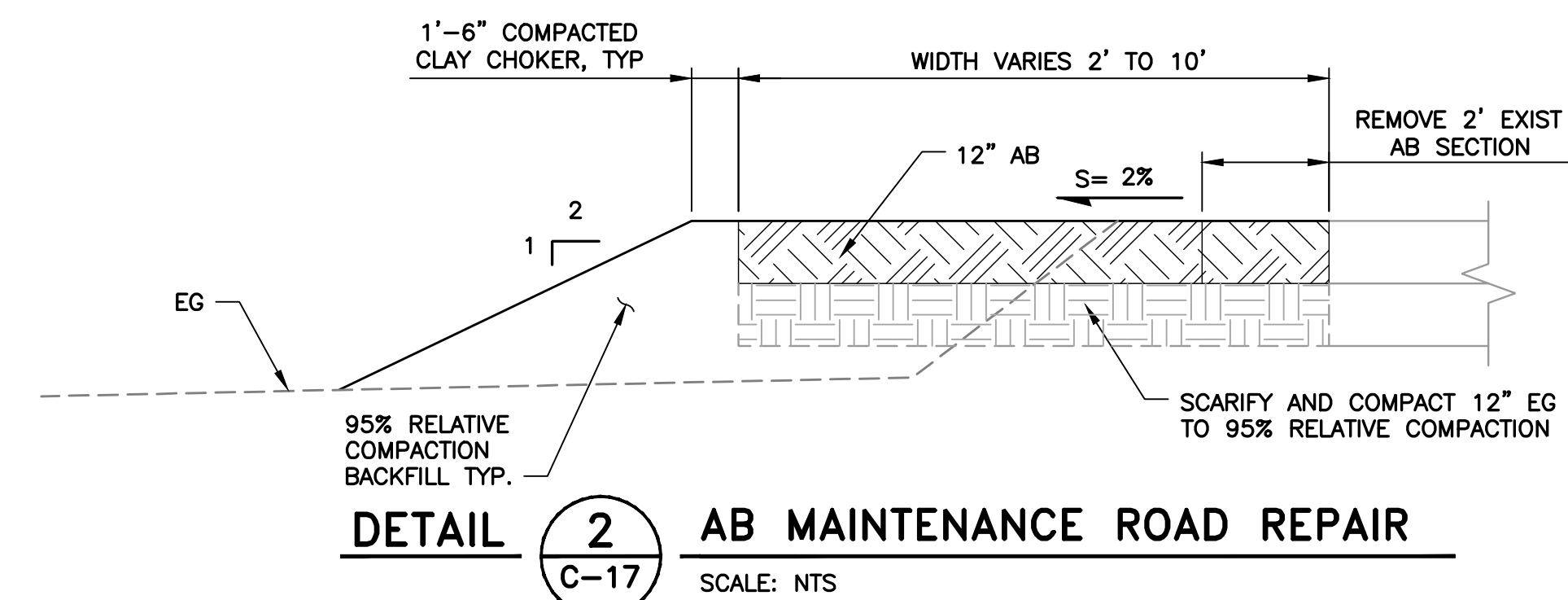
MECHANICAL DEFLATION SYSTEM PIPE



GROOVE DETAIL

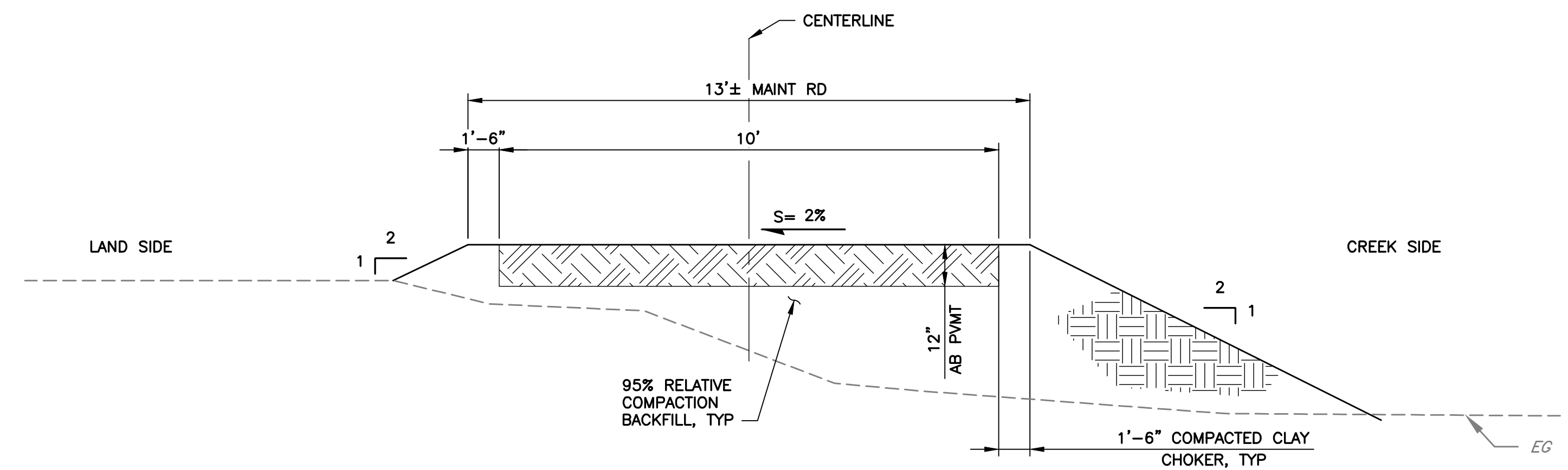
DETAIL **1** **TYPICAL CONC MAINT RAMP**
C-01 SCALE: NTS

SCALE: NTS



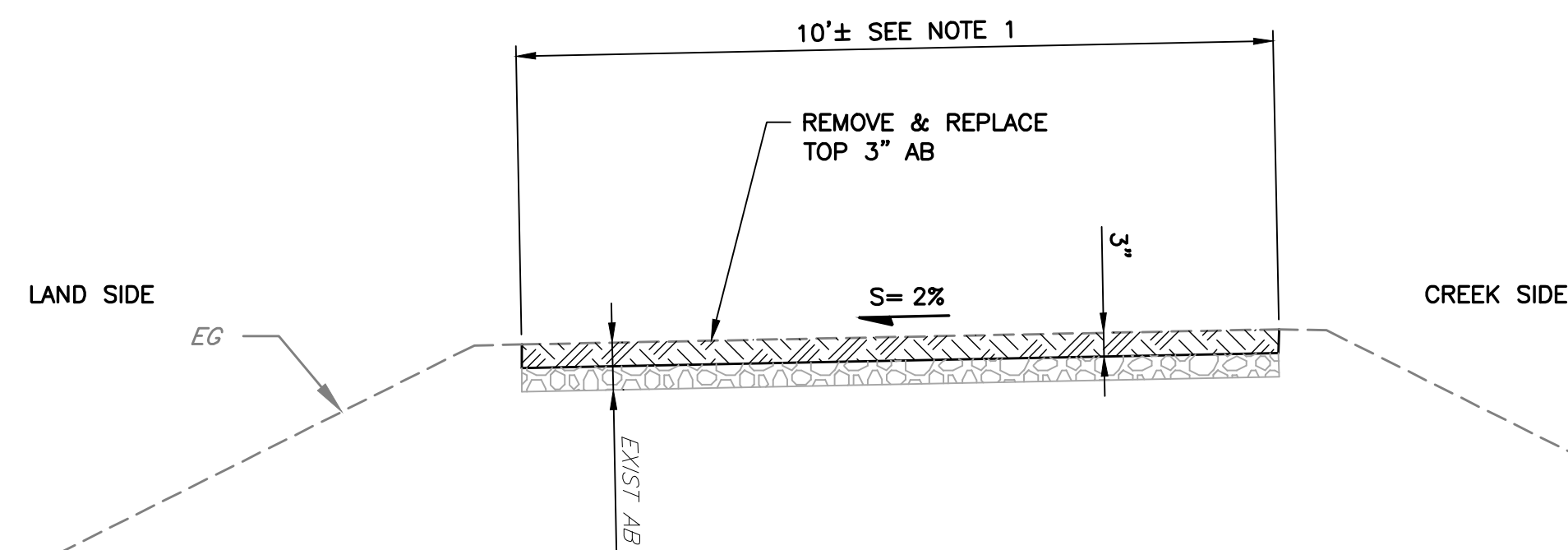
DETAIL **2** **AB MAINTENANCE ROAD REPAIR**
C-17 SCALE: NTS

SCALE: NTS



SECTION E
C-17 NEW AB MAINTENANCE ROAD

SCALE: NTS

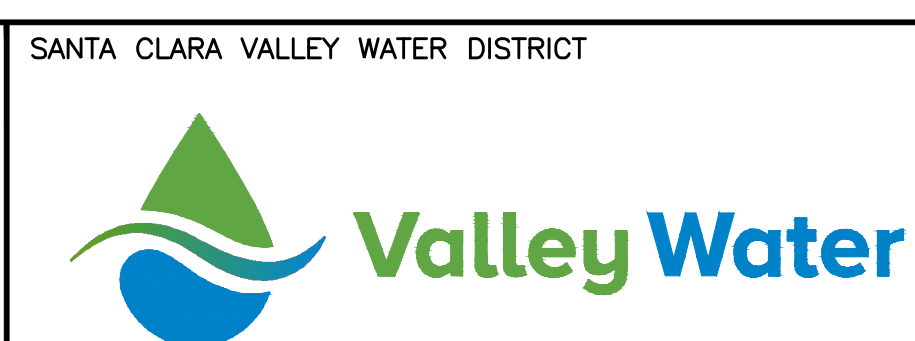


**SECTION C
C-17 EXISTING AB RESURFACING TYPICAL**

SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE	
JAN 2023	
DESIGN	
Y. LEE	
DRAWN	
O. REYNOSO	
CHECKED	PROJECT ENGINEER
K. NEUMAN	



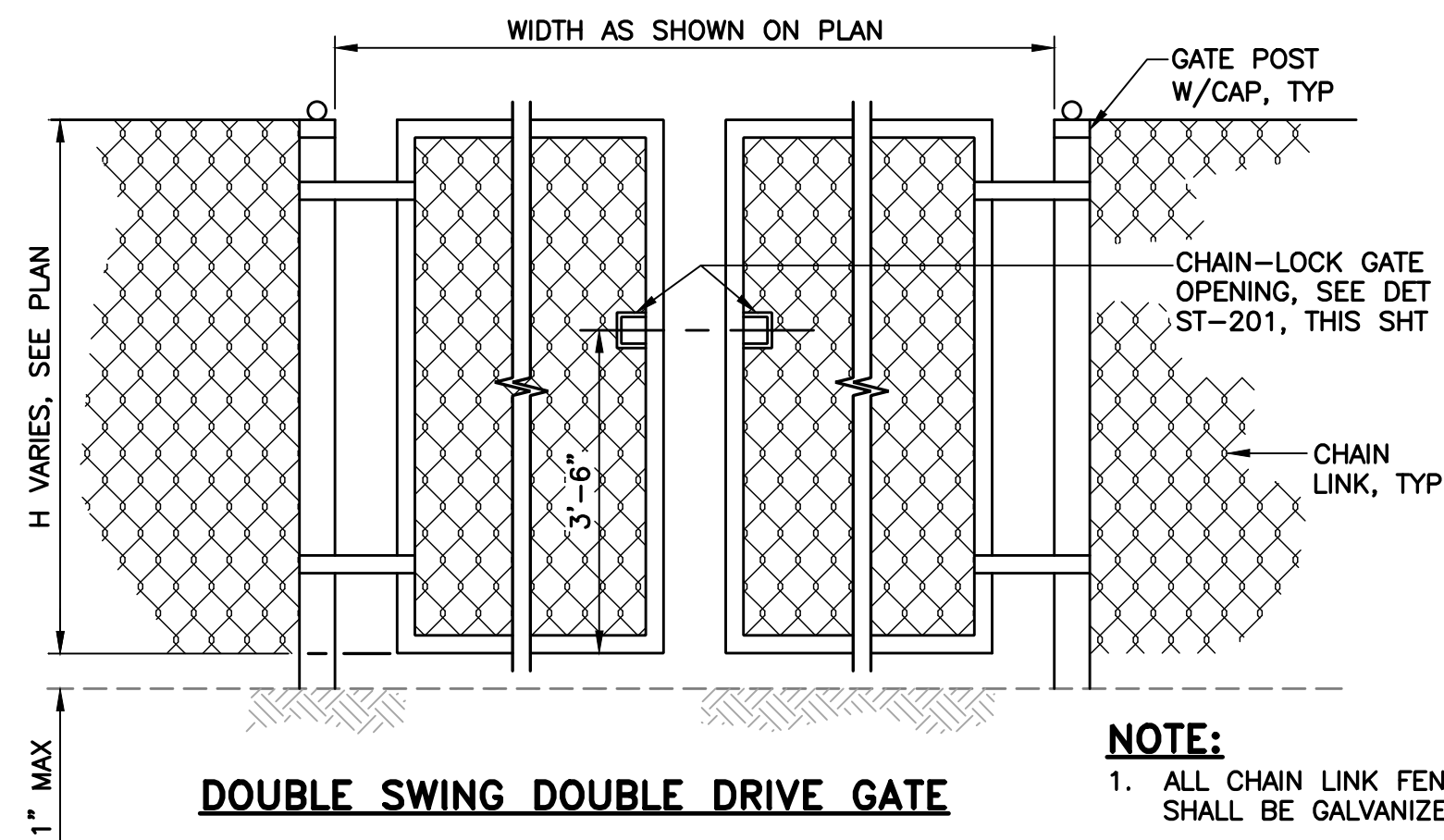
PROJECT NAME AND SHEET DESCRIPTION:	
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT DETAILS	

SCALE AS SHOWN	PROJECT NUMBER 91864009
VERIFY SCALES  BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-20 SHEET NUMBER: 36

USERNAME: Tungron 1/12/2023 4:50 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\C-21.dwg

2

DOCUMENT NUMBER: C00-C-9248-75879



DOUBLE SWING DOUBLE DRIVE GATE

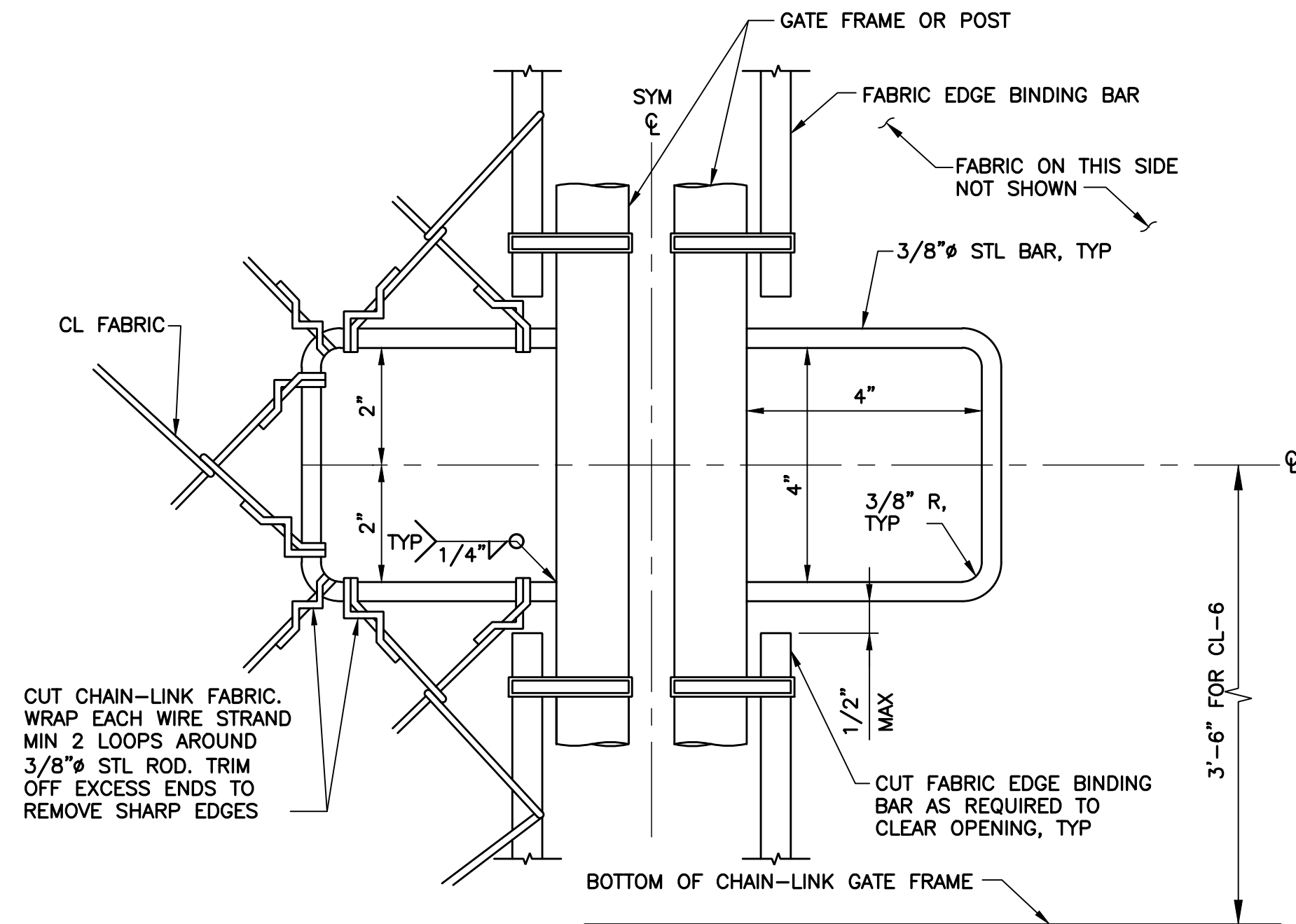
ST-200
TYP

CHAIN LINK GATE

SCALE: NTS

NOTE:

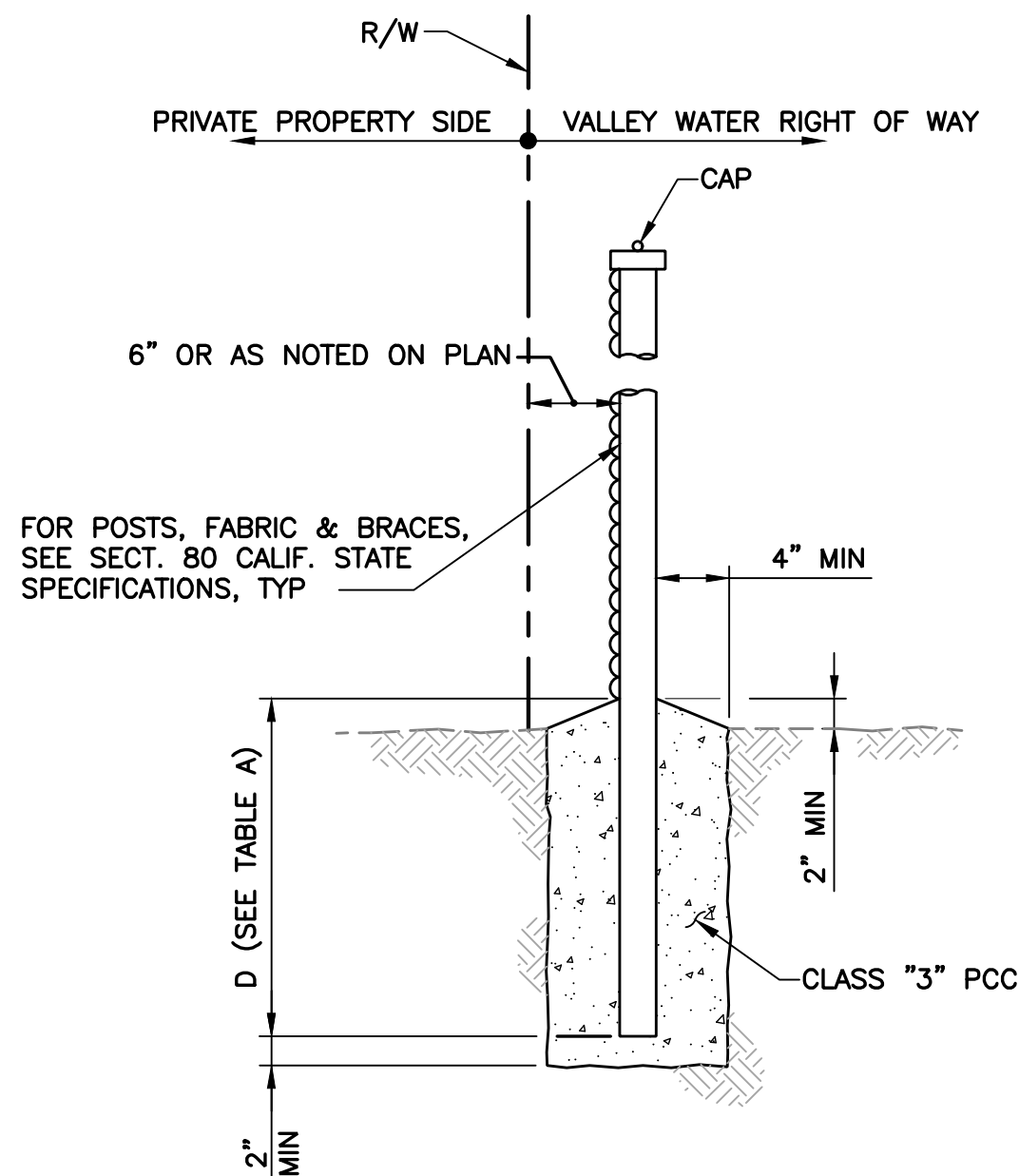
1. ALL CHAIN LINK FENCE AND GATES SHALL BE GALVANIZED STEEL.



ST-201
TYP

CHAIN-LOCK GATE OPENING

SCALE: NTS



DETAIL 1

C-14

FENCE POST IN GROUND

SCALE: NTS

TABLE A		
FENCE	H	D
CL-8	8'	2.75'

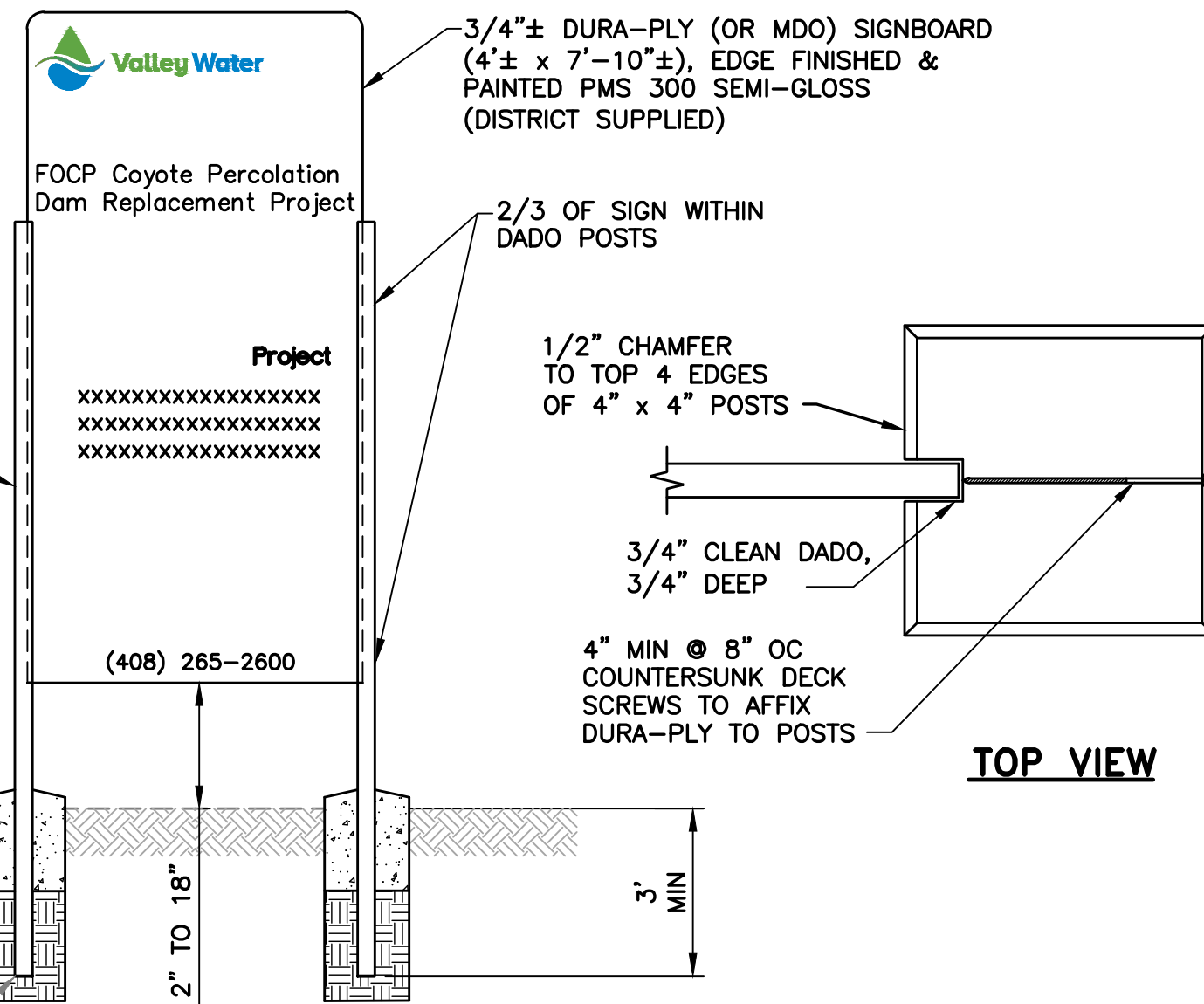
4" x 4" (S4S) USE FIR POST FOR 1 TO 2 YEAR PROJECTS & (S4S) CONSTRUCTION, GRADE REDWOOD FOR 3+ YEAR PROJECTS (ALL WITHOUT KNOTS) & FINISHED IN WHITE SEMI-GLOSS

12" MIN OF FENCE POST CONC MIX ON TOP OF PACKED GRAVEL AROUND THE TOP. FINISH HEIGHT IS ABOVE SURROUNDING SOIL GRADE

EXIST GROUND

3/4" GRAVEL OR PACKED BACKFILL

12"Ø HOLE, TYP



FRONT VIEW

DETAIL 2

G-02

PROJECT SIGN

SCALE: NTS

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES	
1. CHAIN & LOCK SHALL BE FURNISHED AND INSTALLED BY SCVWD.	
2. ALL CHAIN-LINK FENCE AND GATES SHALL BE GALVANIZED STEEL.	
3. CHAIN-LINK FENCES SHALL BE PER STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION REVISED STANDARD PLAN RSP A85.	

DATE
JAN 2023
DESIGN
Y. LEE
DRAWN
R. SAINI
CHECKED
K. NEUMAN

ENGINEERING CERTIFICATION

PROJECT ENGINEER
DATE

SANTA CLARA VALLEY WATER DISTRICT


PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
DETAILS

SCALE AS SHOWN
0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER
91864009
SHEET CODE:
C-21
SHEET NUMBER:
37

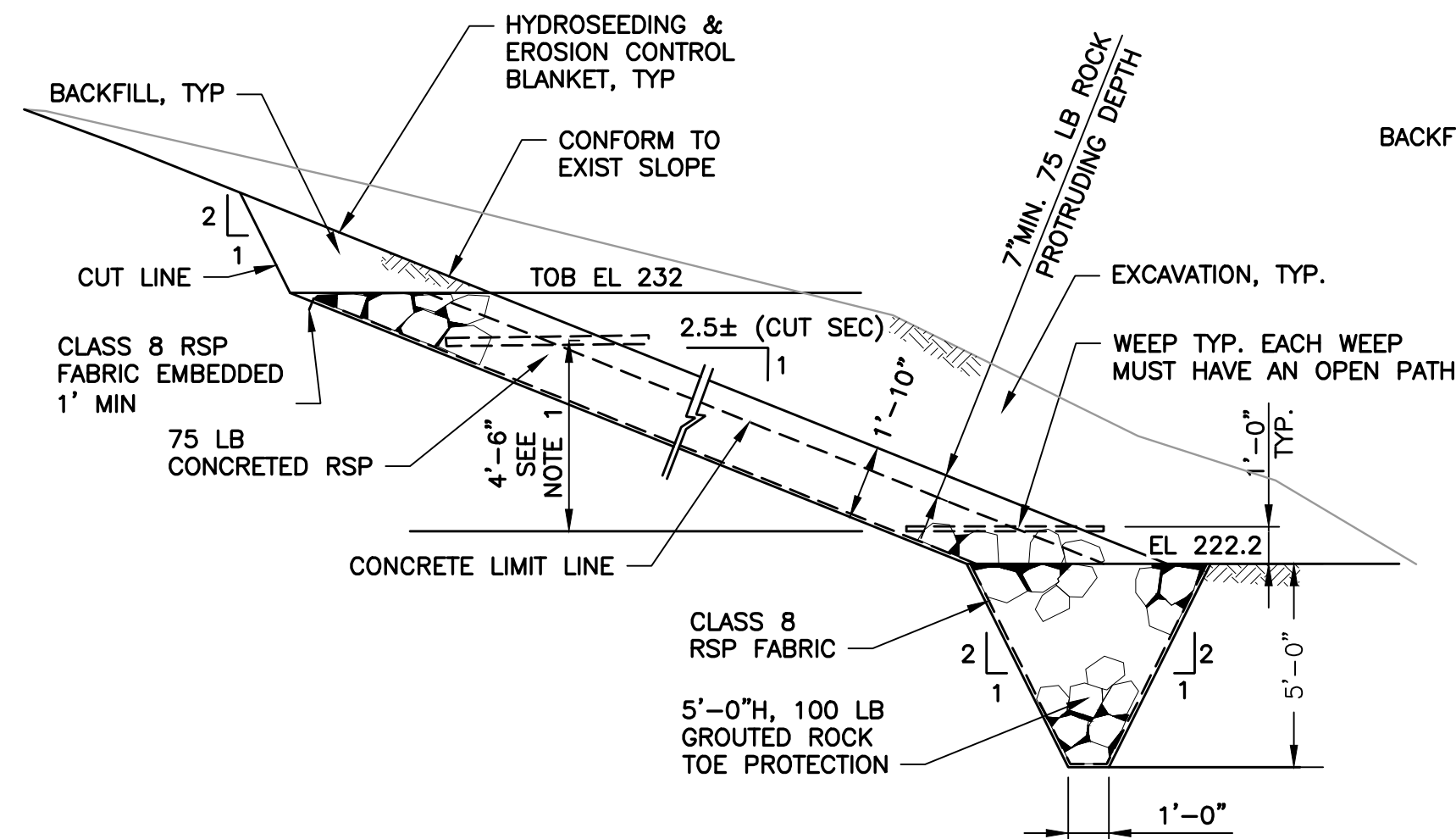
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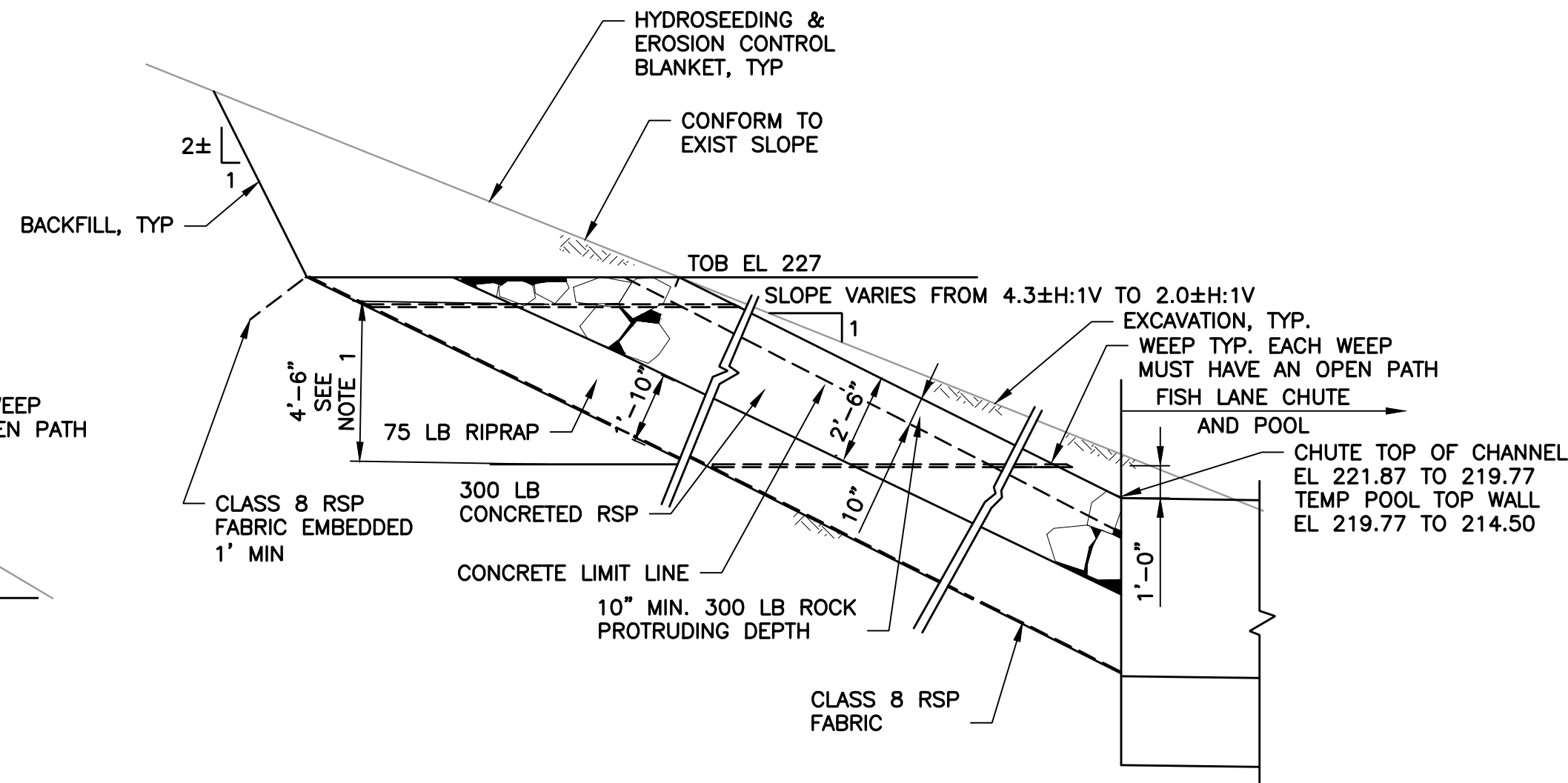
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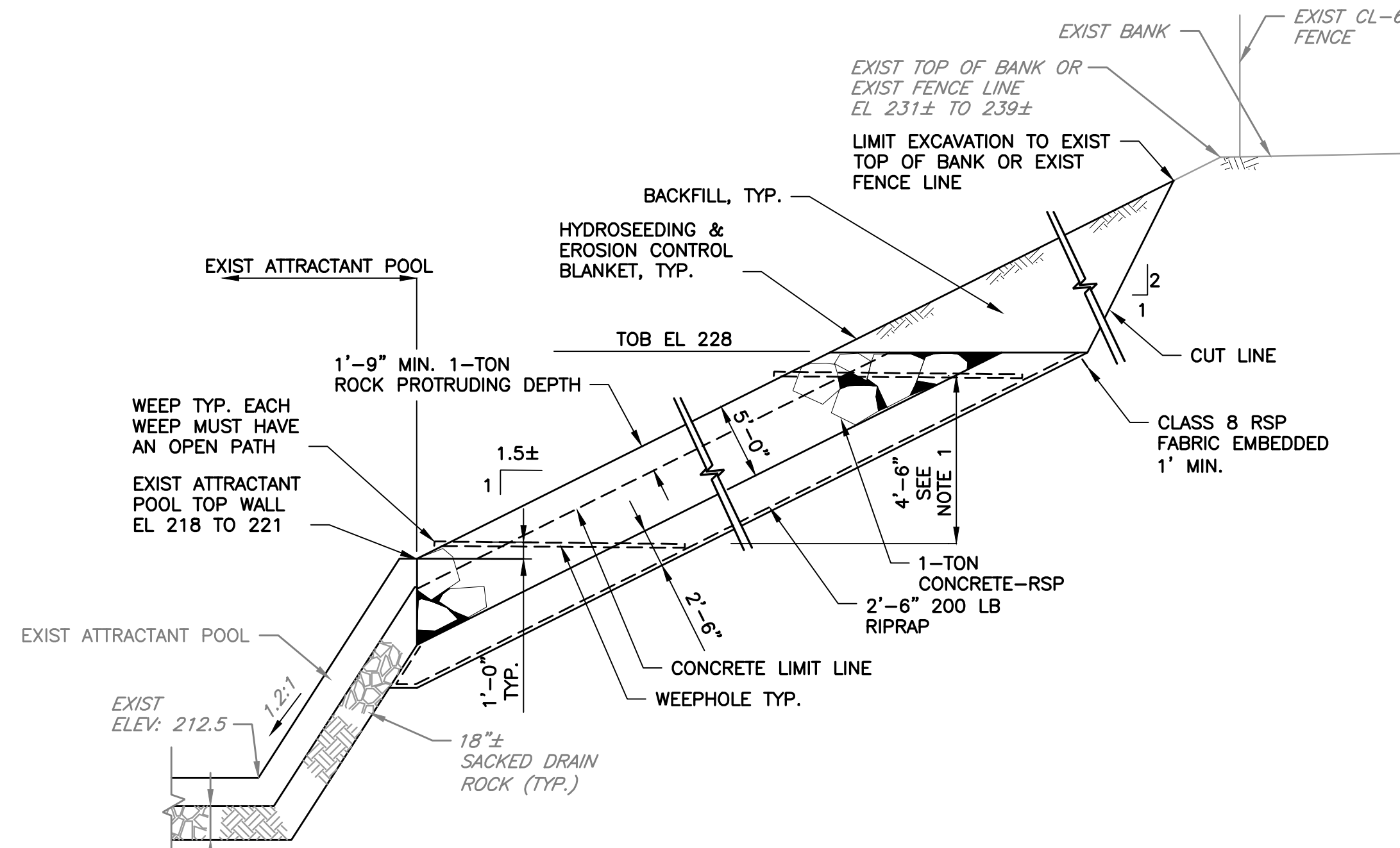
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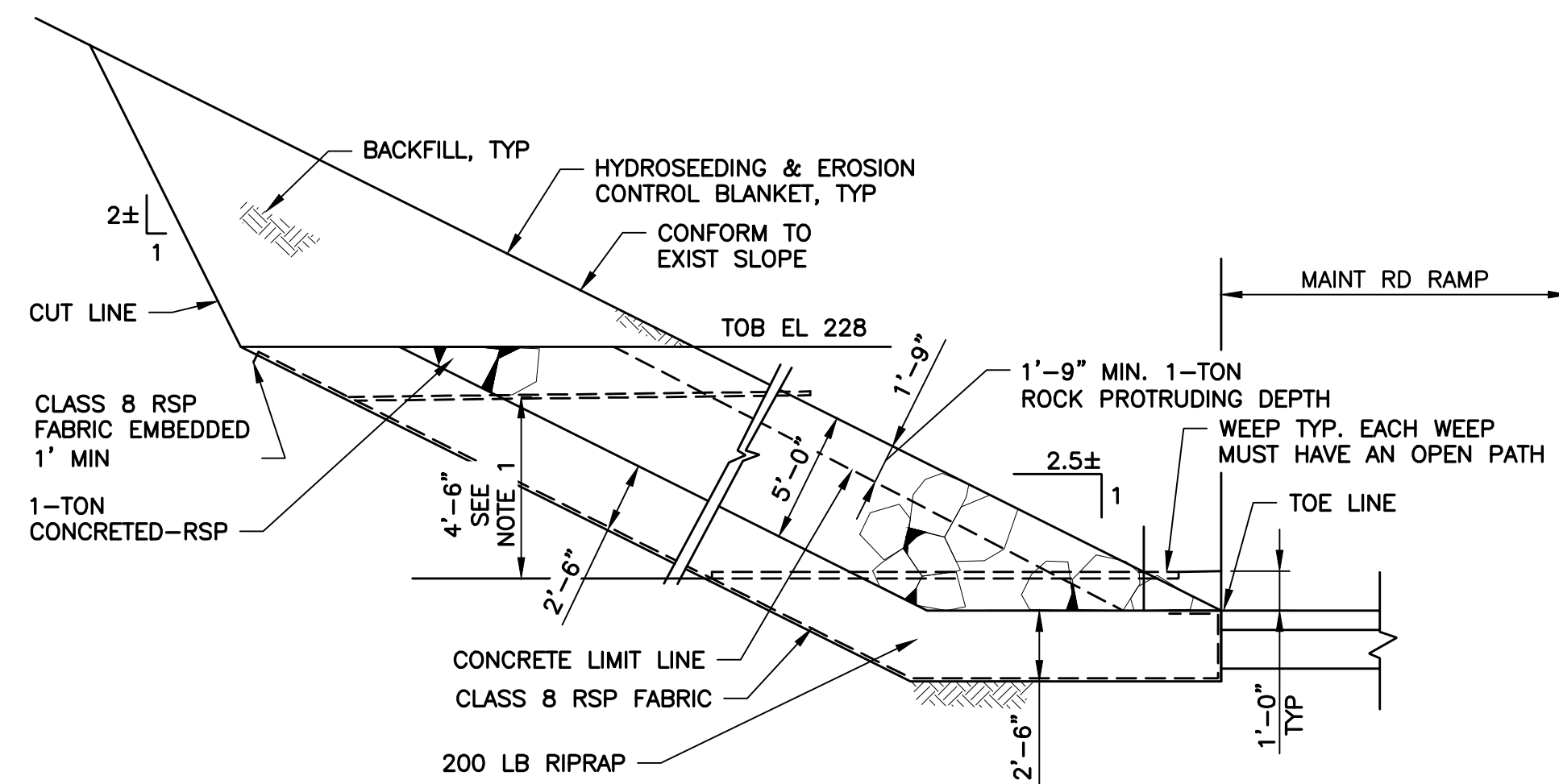
TYPICAL SECTION **A** AREA A
C-01 SCALE: 1" = 4'-0"
D-01



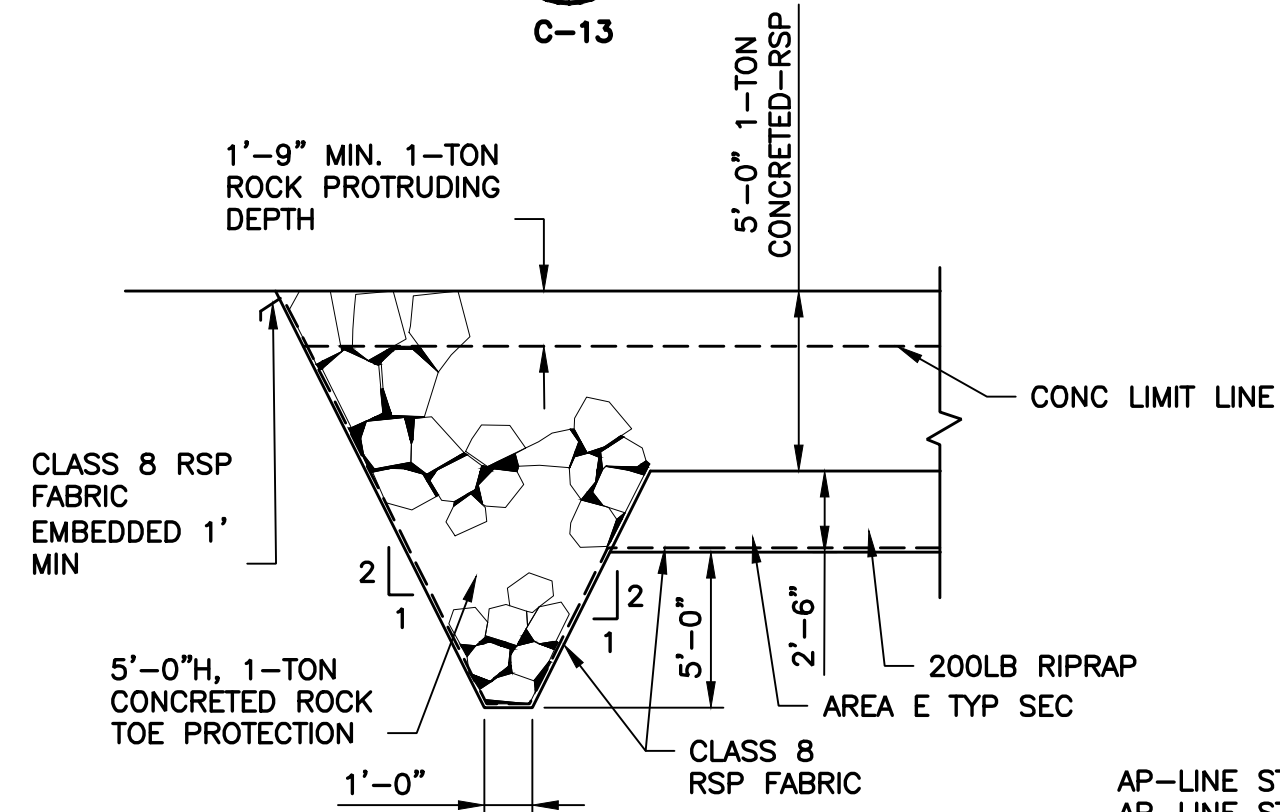
TYPICAL SECTION **C** AREA C
C-01 SCALE: N.T.S.
C-13



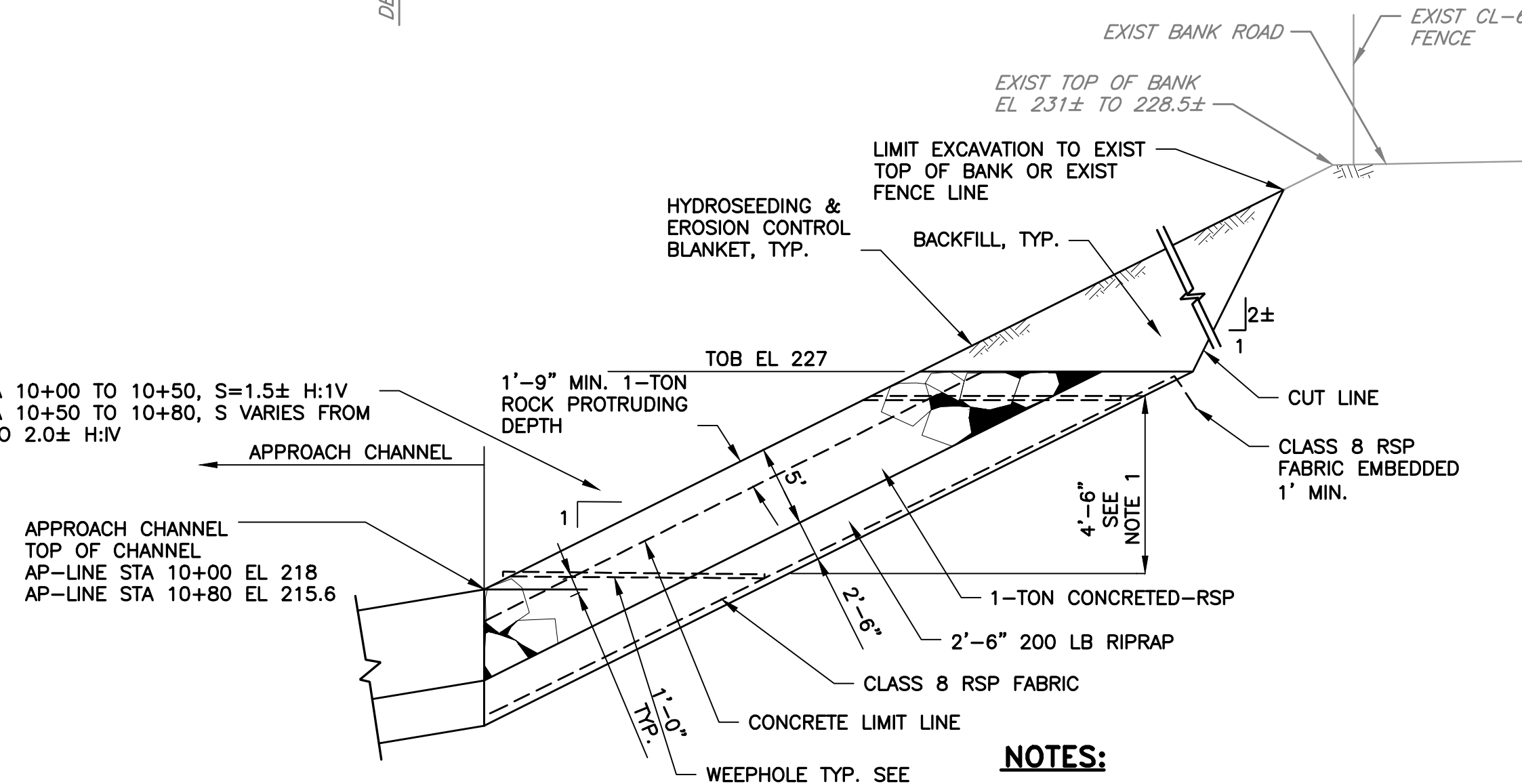
TYPICAL SECTION **E** AREA D
C-01 SCALE: N.T.S.



TYPICAL SECTION **B** AREA B
C-01 SCALE: N.T.S.



TYPICAL SECTION **D** DOWNSTREAM
C-01 EDGE PROTECTION
SCALE: N.T.S.



TYPICAL SECTION **F** AREA E
C-01 SCALE: N.T.S.
C-13

NOTES:

1. SPACE THE WEEPS EVERY 9 FEET ALONG BANK (PLAN AND FRONT VIEW). STAGGER SUCCESSIVE ROWS 4.5 FEET.
2. WITHIN PROTRUDING DEPTH, THE RIP-RAP VOID SHALL NOT BE FILLED WITH CONCRETE.

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE JAN 2023	ENGINEERING CERTIFICATION REGISTERED PROFESSIONAL ENGINEER Y. LEE No. C42456 CIVIL STATE OF CALIFORNIA	SANTA CLARA VALLEY WATER DISTRICT 
DESIGN Y. LEE	PROJECT ENGINEER	DATE
DRAWN R. SAINI		
CHECKED K. NEUMAN		

PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT EROSION PROTECTION SECTIONS	SCALE AS SHOWN VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91864009 SHEET CODE: C-22 SHEET NUMBER: 38
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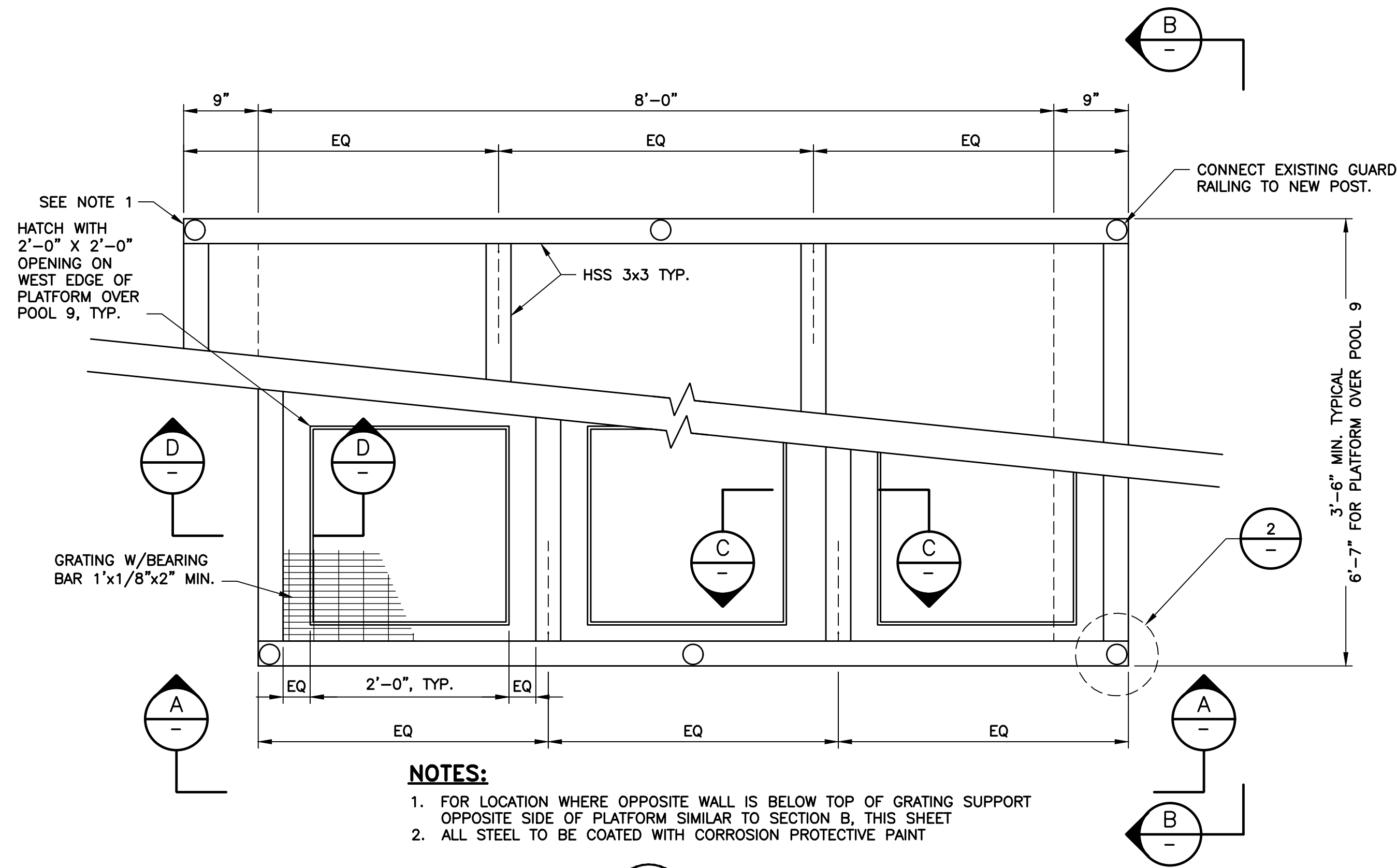
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DOCUMENT NUMBER: C00-C-9248-75881

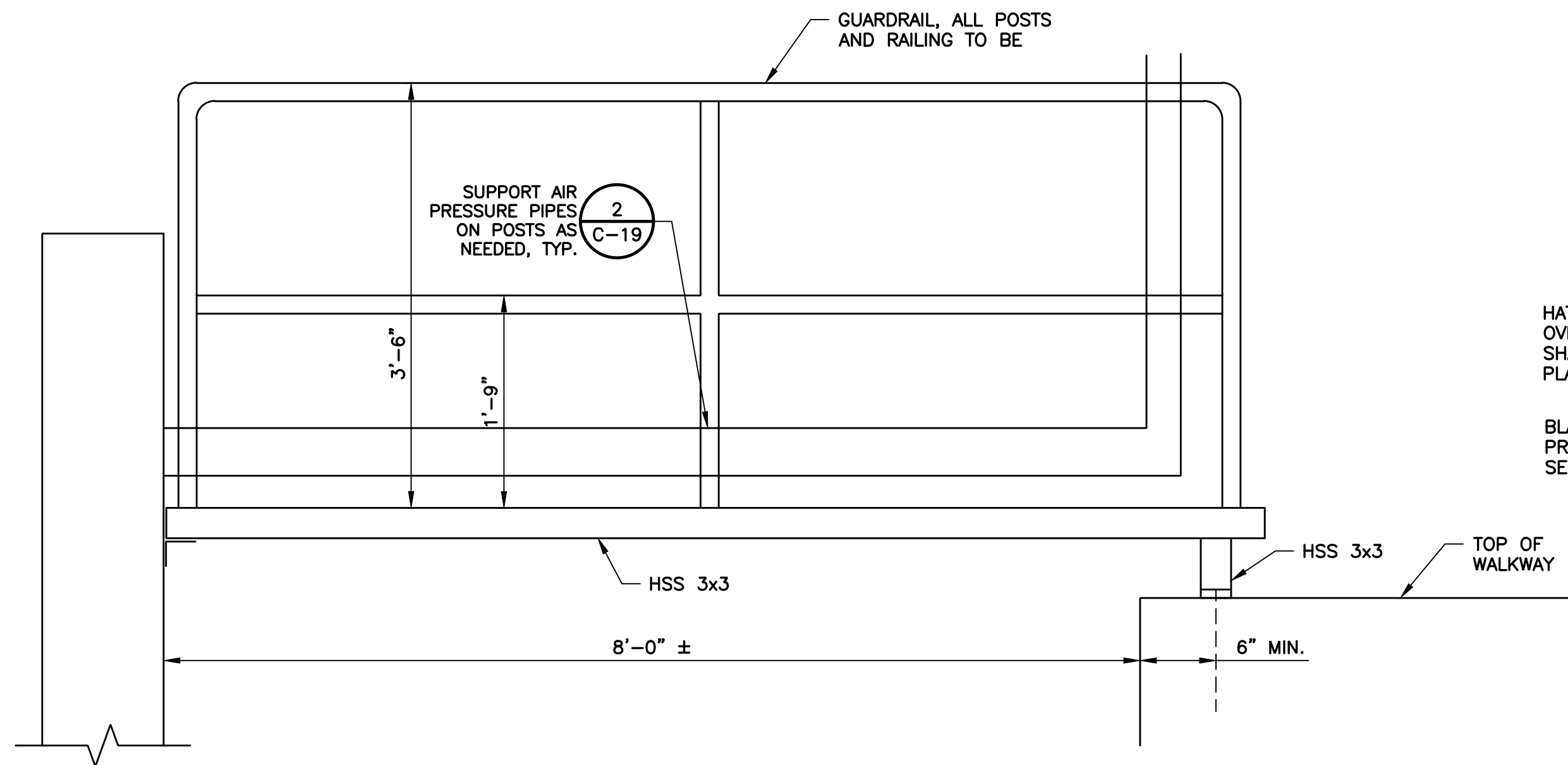
1



NOTES:

1. FOR LOCATION WHERE OPPOSITE WALL IS BELOW TOP OF GRATING SUPPORT OPPOSITE SIDE OF PLATFORM SIMILAR TO SECTION B, THIS SHEET
2. ALL STEEL TO BE COATED WITH CORROSION PROTECTIVE PAINT

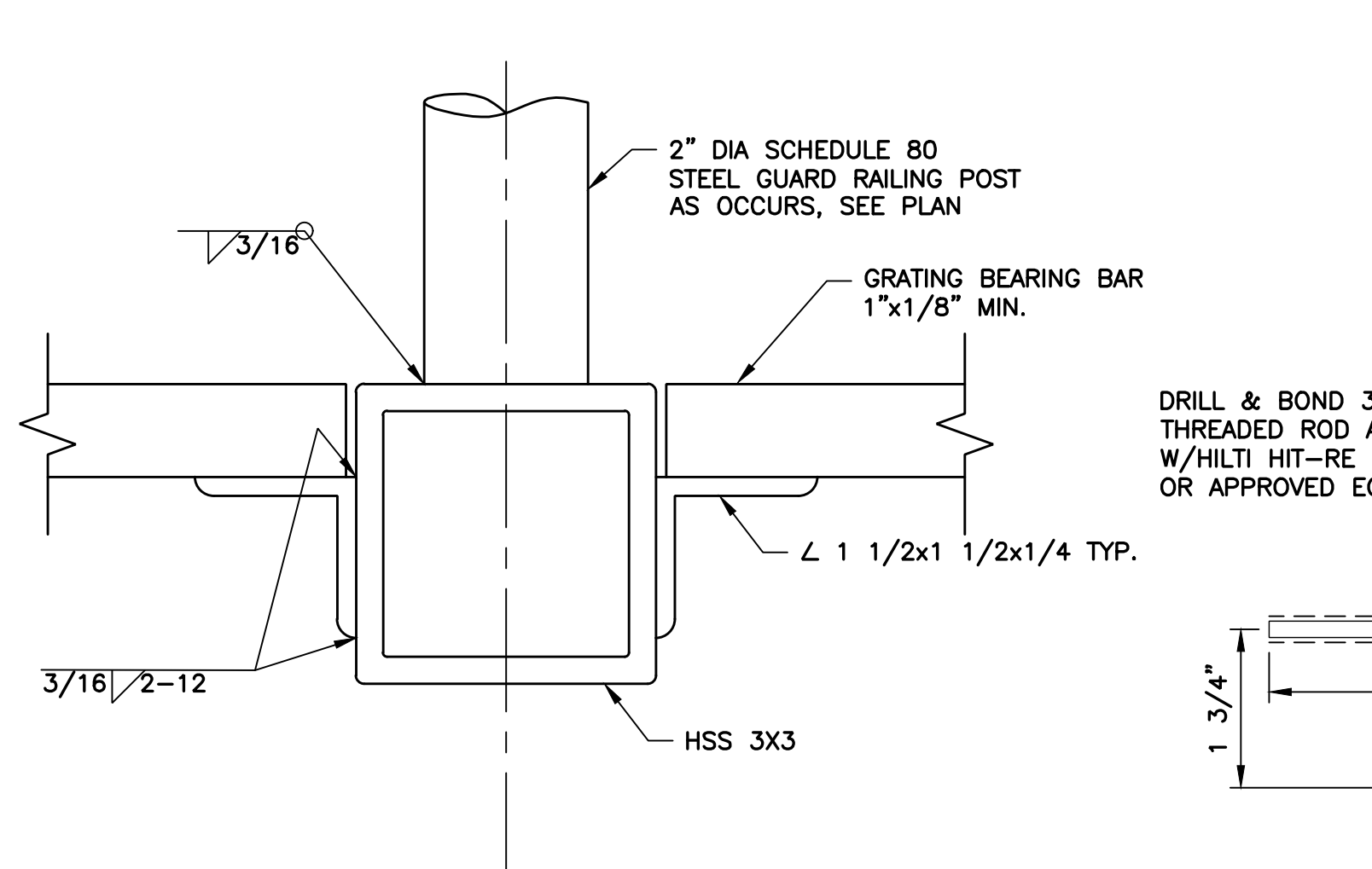
VIEW 1 PARTIAL PLAN
C-04 SCALE: NTS



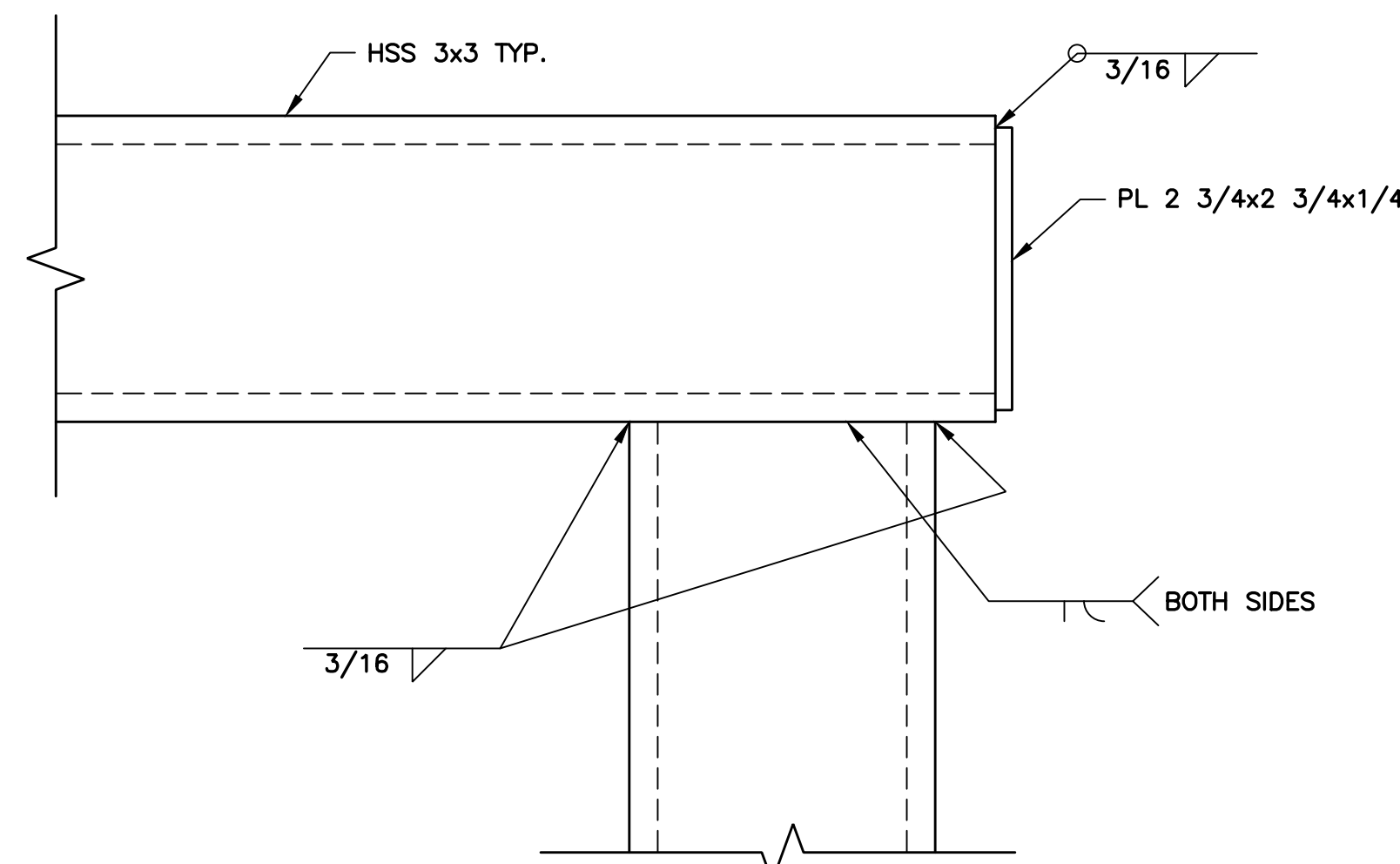
SECTION A TYPICAL GUARDRAIL SUPPORT
SCALE: NTS

HATCH IN PLATFORM
OVER POOL 9. HINGE
SHALL BE BELOW
PLATFORM SURFACE

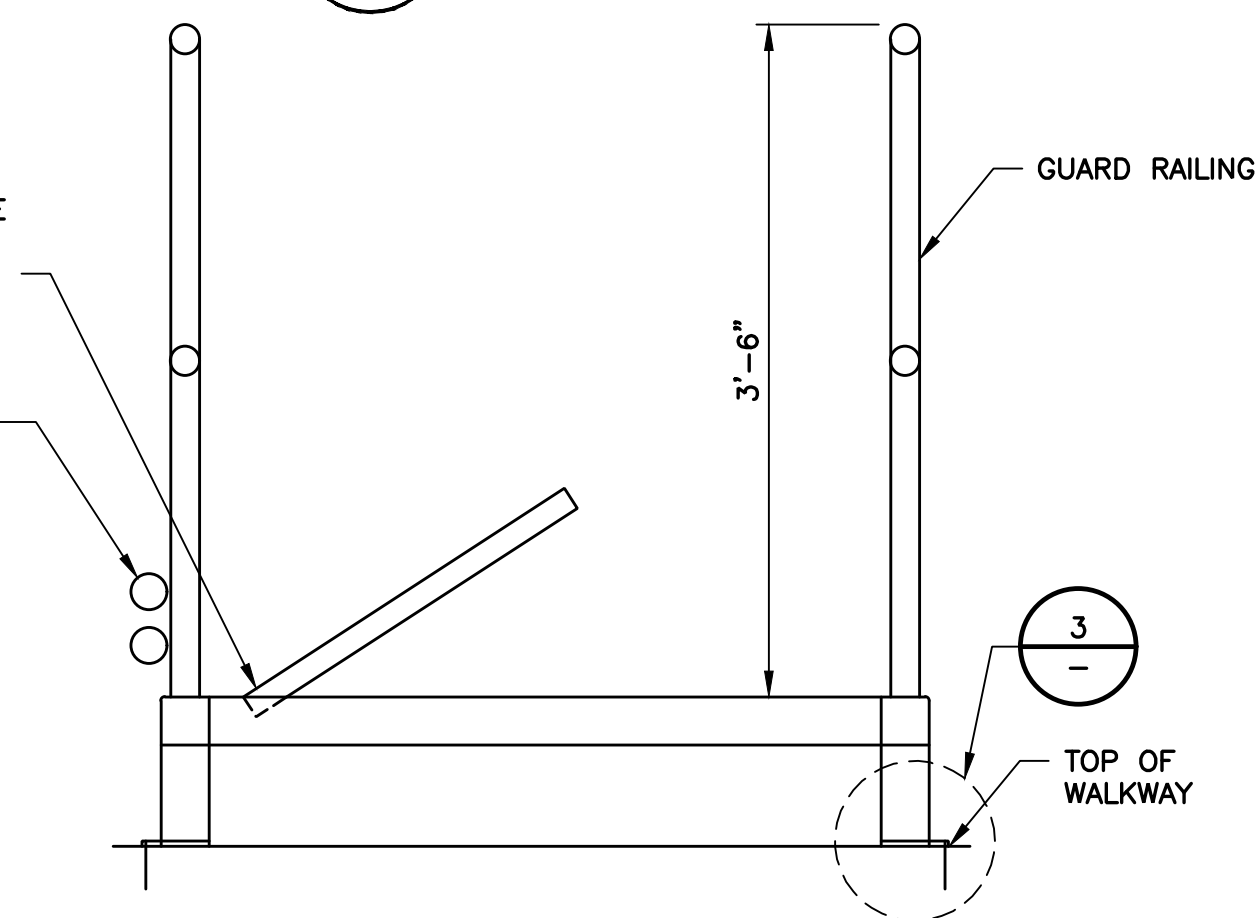
BLADDER DAM AIR
PRESSURE PIPES,
SEE SHEET C-18



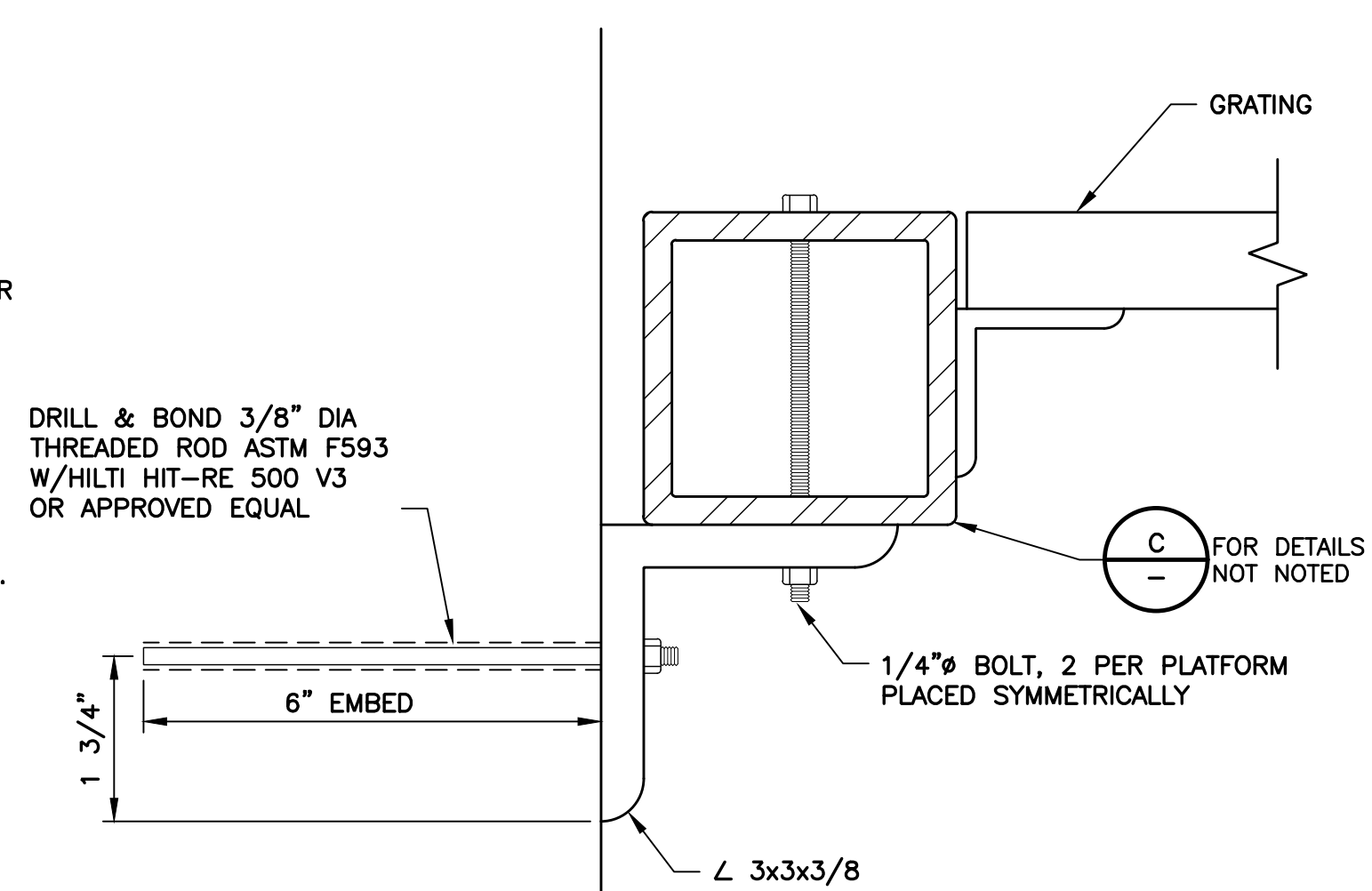
SECTION C TYPICAL GRATING SUPPORT
SCALE: NTS



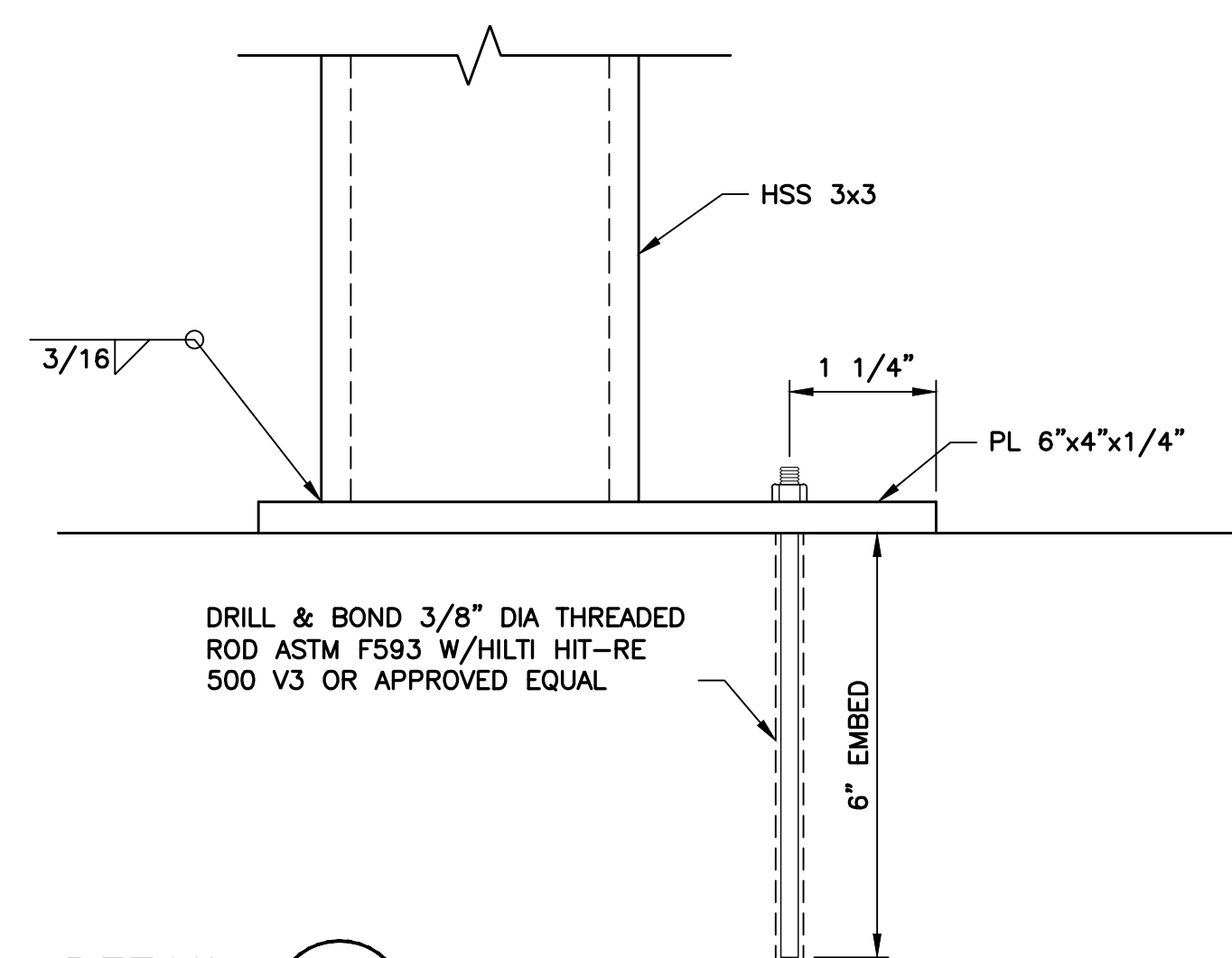
DETAIL 2 TYPICAL HSS CONNECTION
SCALE: NTS



SECTION B TYPICAL GUARDRAIL SUPPORT
SCALE: NTS



SECTION D WALL SUPPORT
SCALE: NTS



DETAIL 3 BASE PLATE
SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

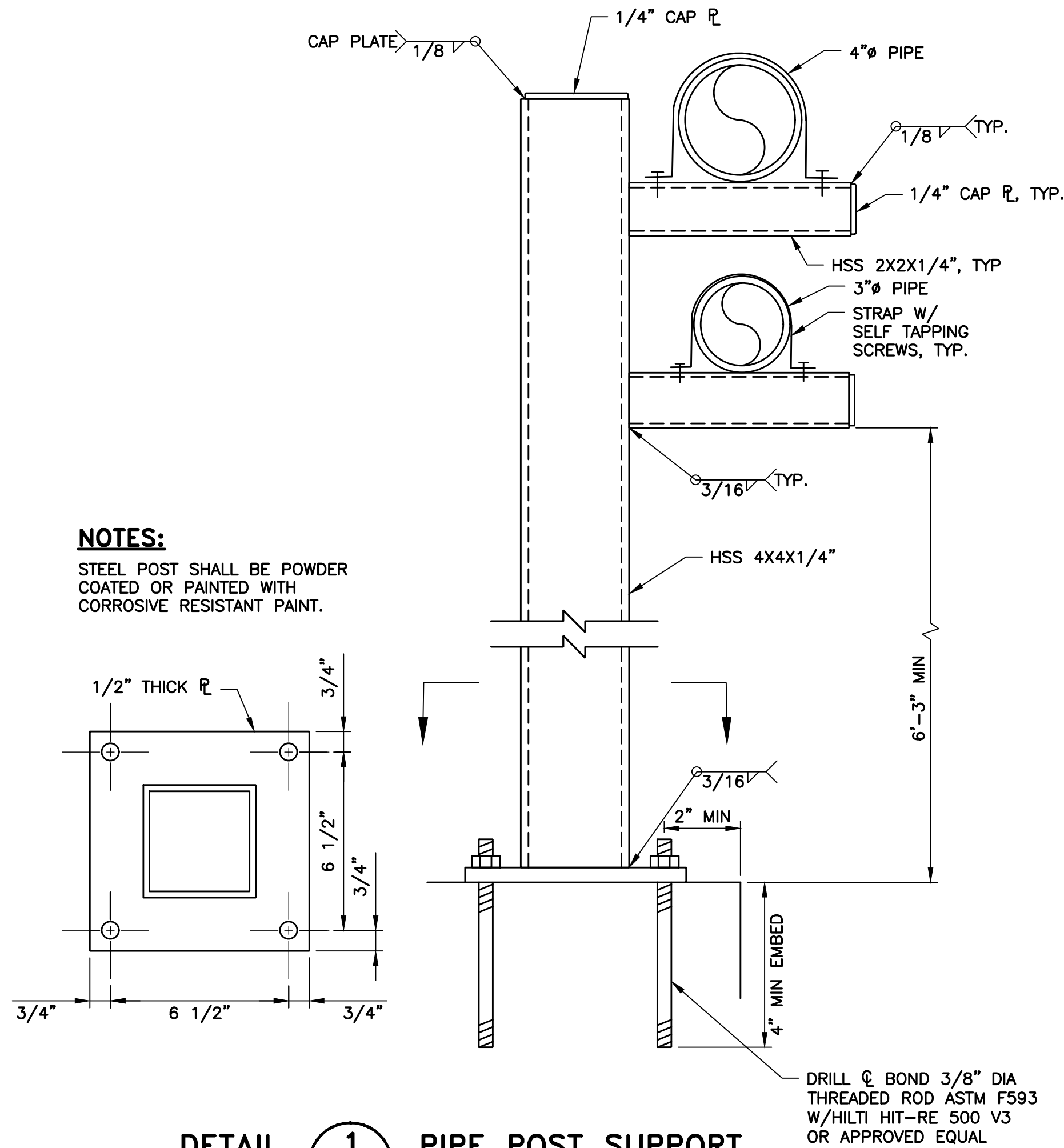
DATE JAN 2023	ENGINEERING CERTIFICATION
DESIGN Y. LEE	SANTA CLARA VALLEY WATER DISTRICT
DRAWN R. SAINI	
CHECKED K. NEUMAN	
PROJECT ENGINEER	DATE



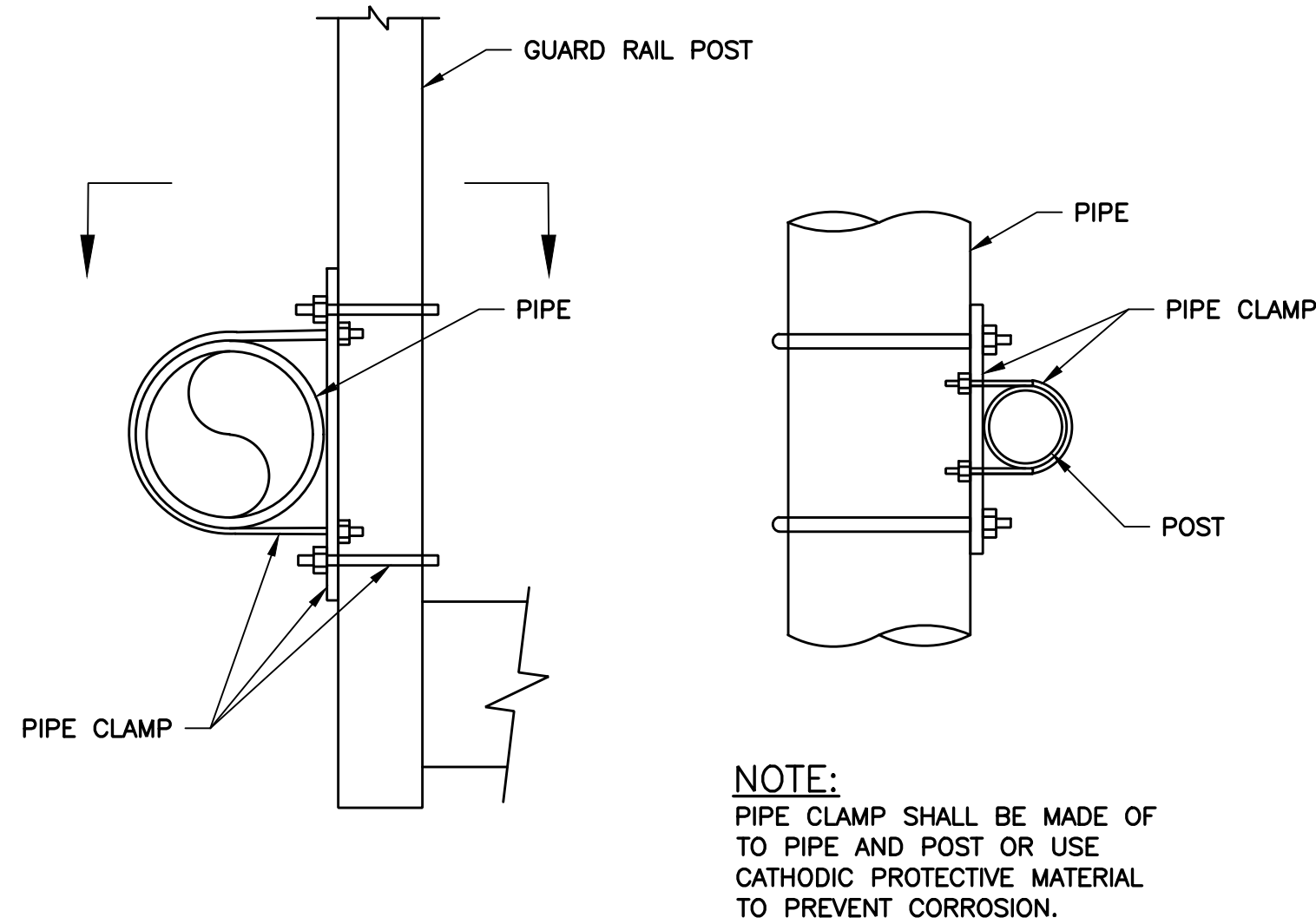
PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	SCALE AS SHOWN 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91864009
DETAILS		SHEET CODE: C-23
		SHEET NUMBER: 39

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DOCUMENT NUMBER: C00-C-9248-75882



DETAIL 1
C-18 PIPE POST SUPPORT
SCALE: N.T.S.



DETAIL 2
C-18 TYPICAL PIPE CLAMP SUPPORT
SCALE: 1" = 2"

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
					DESIGN				VERIFY SCALES	SHEET CODE:
					DRAWN				0 1"	C-24
					CHECKED				BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER:
					K. NEUMAN	PROJECT ENGINEER	DATE	DETAILS		40

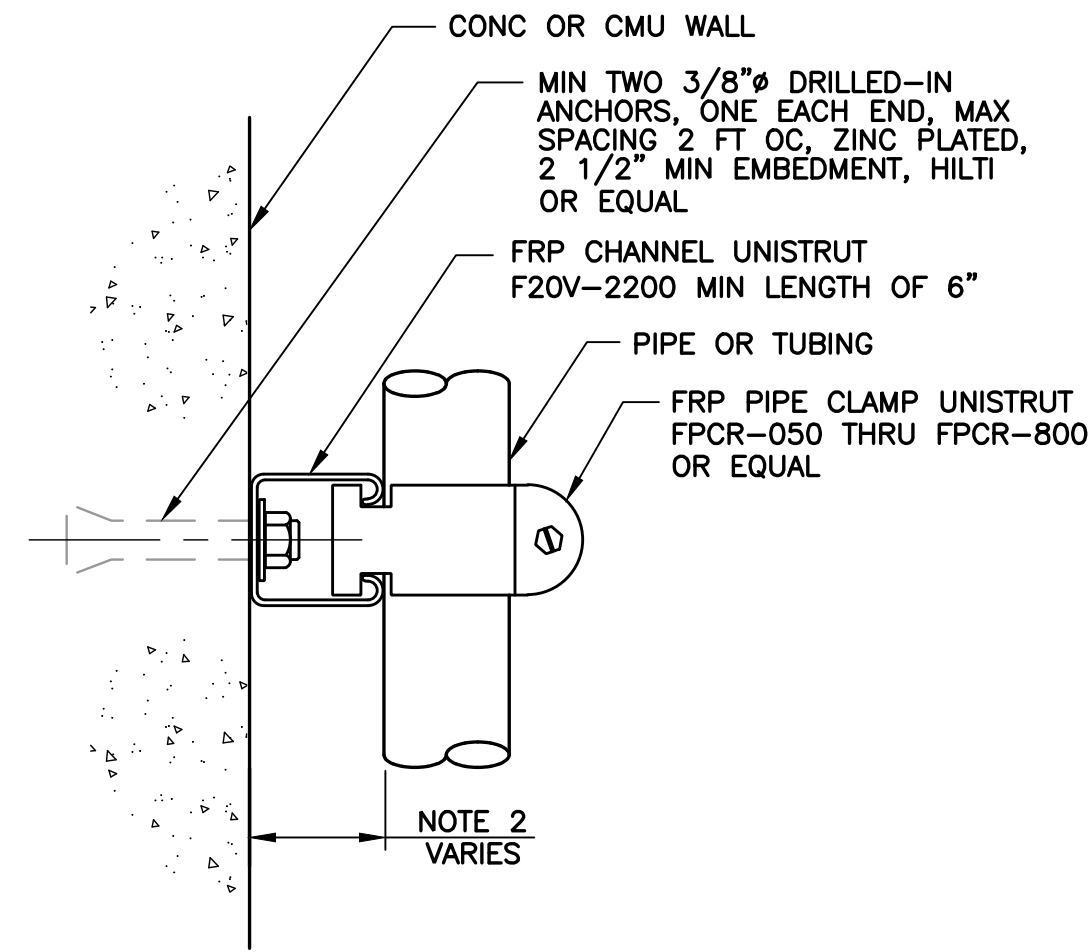
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DOCUMENT NUMBER: C00-C-9248-75883

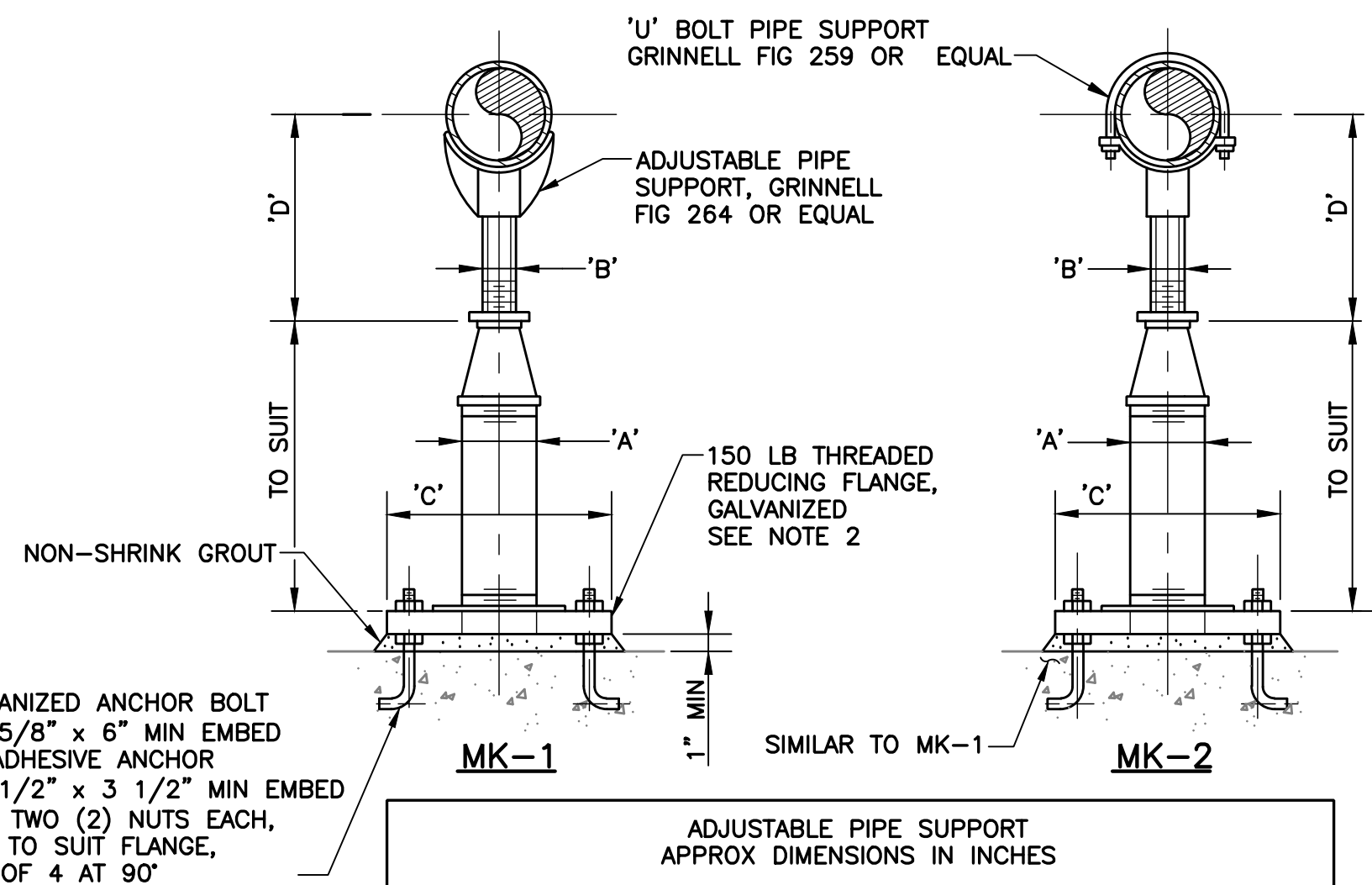
1



NOTES:

1. INSTALL MIN OF 1 CLAMP WITHIN 6" OF EACH FITTING AND VALVE.
2. CHANNEL HEIGHT AND/OR MULTIPLE CHANNEL CONFIGURATIONS AS REQUIRED FOR INSTALLATION CLEARANCES. REVISE ANCHORAGE LENGTH TO ACHIEVE MIN EMBEDMENT SHOWN ABOVE.
3. REMOVE BURRS AND SMOOTH ALL CUT EDGES OF FRAMING SUPPORTS.

DETAIL 1
C-18 **TYPICAL METALLIC PIPING SUPPORT**
SCALE: NTS

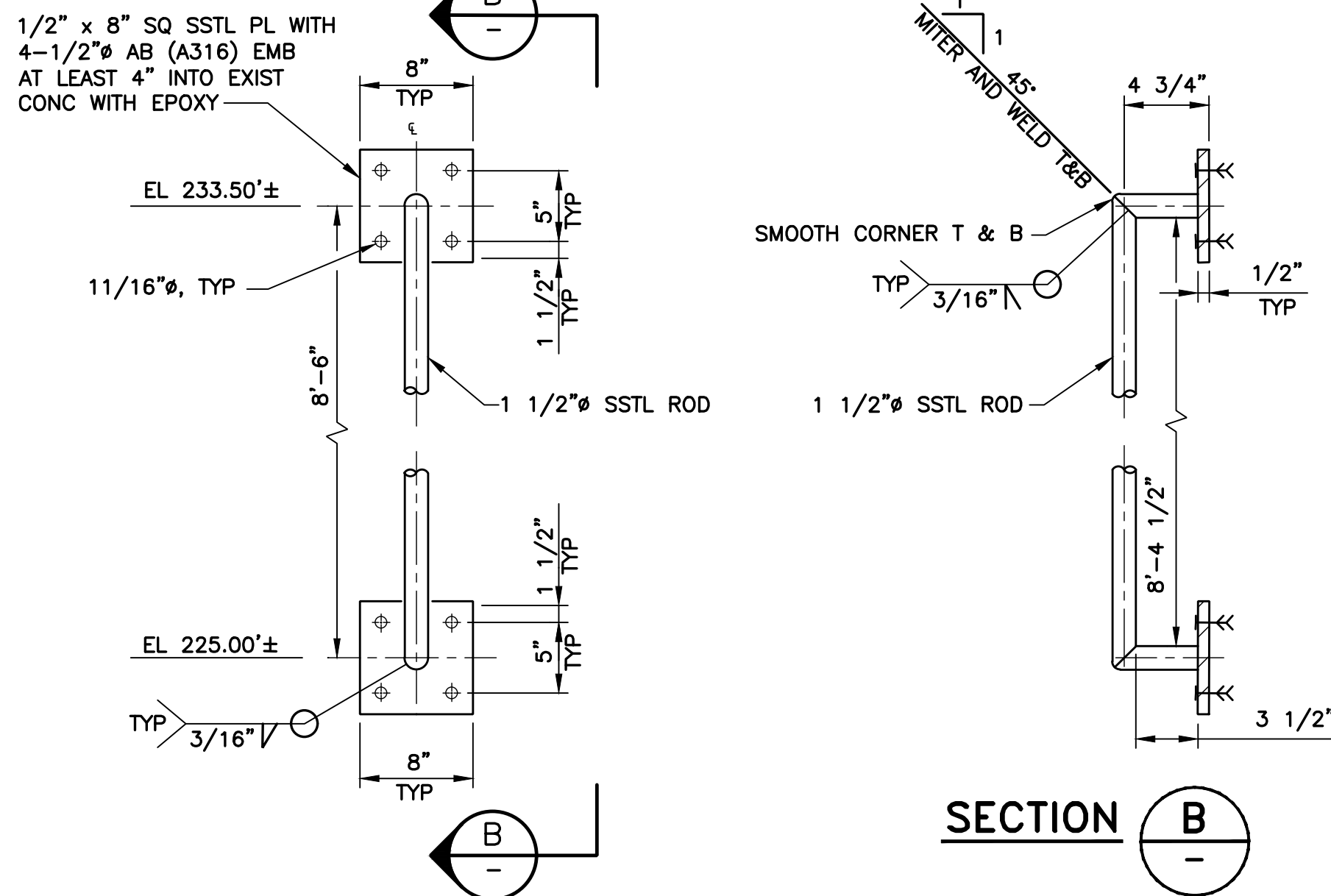


ADJUSTABLE PIPE SUPPORT APPROX DIMENSIONS IN INCHES					
PIPE SIZE	A	B	C	D MIN	D MAX
3	2 1/2	1	9	8 1/4	11 3/4
4	3	2 1/2	9	10 1/4	14

NOTES:

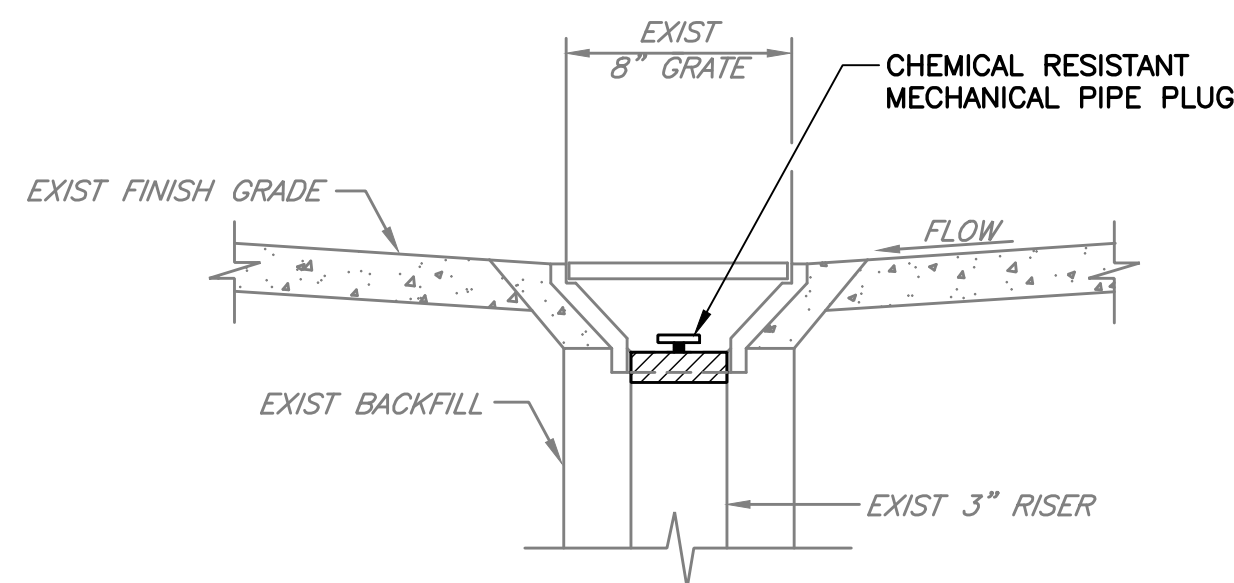
1. UNDER VALVES, METERS OR OTHER SPECIAL APPURTENANCES, A FABRICATED SUPPORT PIECE MAY BE UTILIZED IF CONSTRUCTED TO EQUIVALENT DIMENSIONS AND MATERIALS TO THAT SHOWN ABOVE.
2. MIN EDGE DISTANCE OF DRILLED HOLES TO EDGE OF ANCHOR PLATE SHALL BE 1 1/2"

DETAIL 4
M-9 **ADJUSTABLE PIPE SUPPORT**
SCALE: NTS



SECTION B

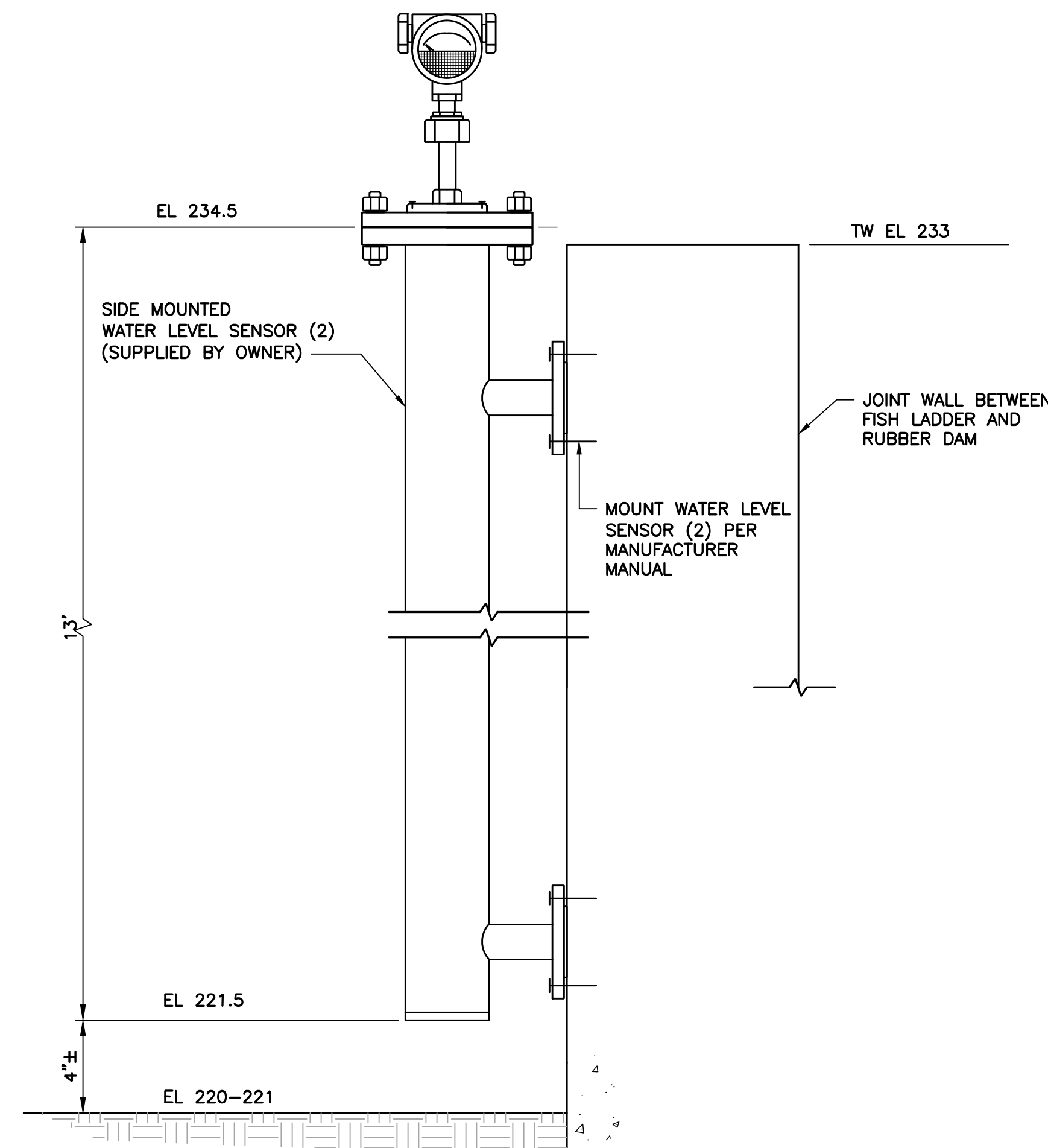
DETAIL 2
C-04 **BOOM FASTENING**
SCALE: NTS



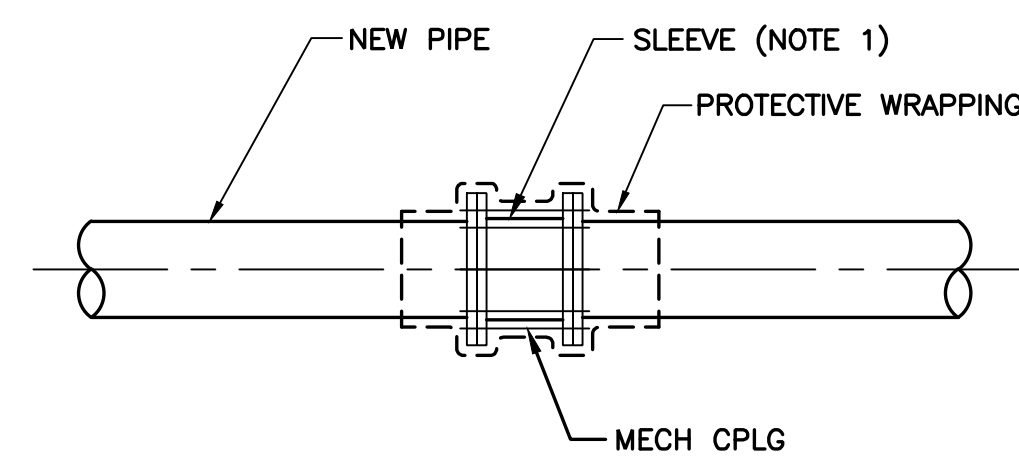
NOTE:

1. AFTER INSTALLATION OF MECHANICAL PIPE PLUGS, EXIST CHEMICAL RESISTING GRATES SHALL BE PLACED BACK AND COVERED THE FLOOR DRAINS. FOR FLOOR SINKS, EXIST ANTI-SPLASH INTERIOR DOME STRAINERS SHALL BE SEATED INSIDE THE RECEPTORS

DETAIL 5
- **TYPICAL FLOOR DRAIN AND FLOOR SINK PLUG**
SCALE: NTS



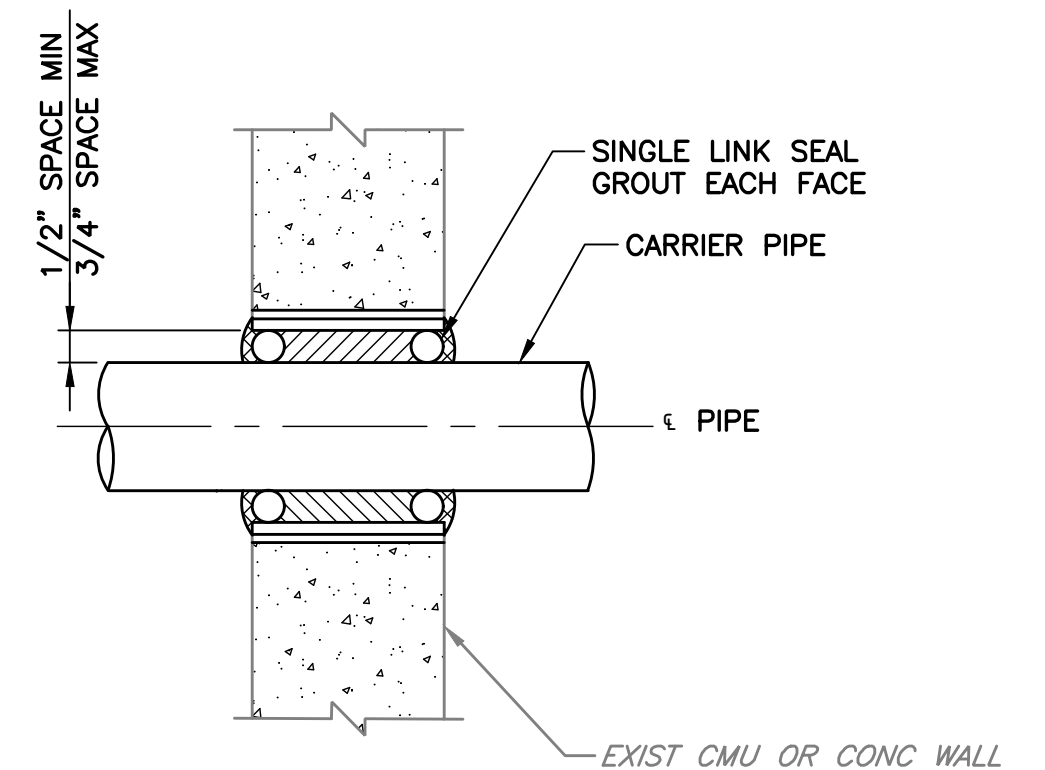
DETAIL 3
C-04 **WATER LEVEL SENSOR INSTALLATION**
N.T.S.



NOTES:

1. MECHANICAL COUPLING, MIN SLEEVE LENGTH SHALL BE 7" FOR PIPE DIA ≤ 12" PIPE
2. PROVIDE TRANSITION COUPLING WHERE CONNECTING PIPE WITH DIFFERENT OUTSIDE DIMENSIONS

DETAIL 6
- **TYPICAL MECHANICAL COUPLING**
SCALE: NTS



DETAIL 7
M-9 **TYPICAL PIPING PENETRATION/PIPE PROTECTION**
SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE JAN 2023	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN Y. LEE		
DRAWN Z. KHAN		
CHECKED K. NEUMAN		
PROJECT ENGINEER		

DATE JAN 2023	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN Y. LEE		
DRAWN Z. KHAN		
CHECKED K. NEUMAN		
PROJECT ENGINEER		

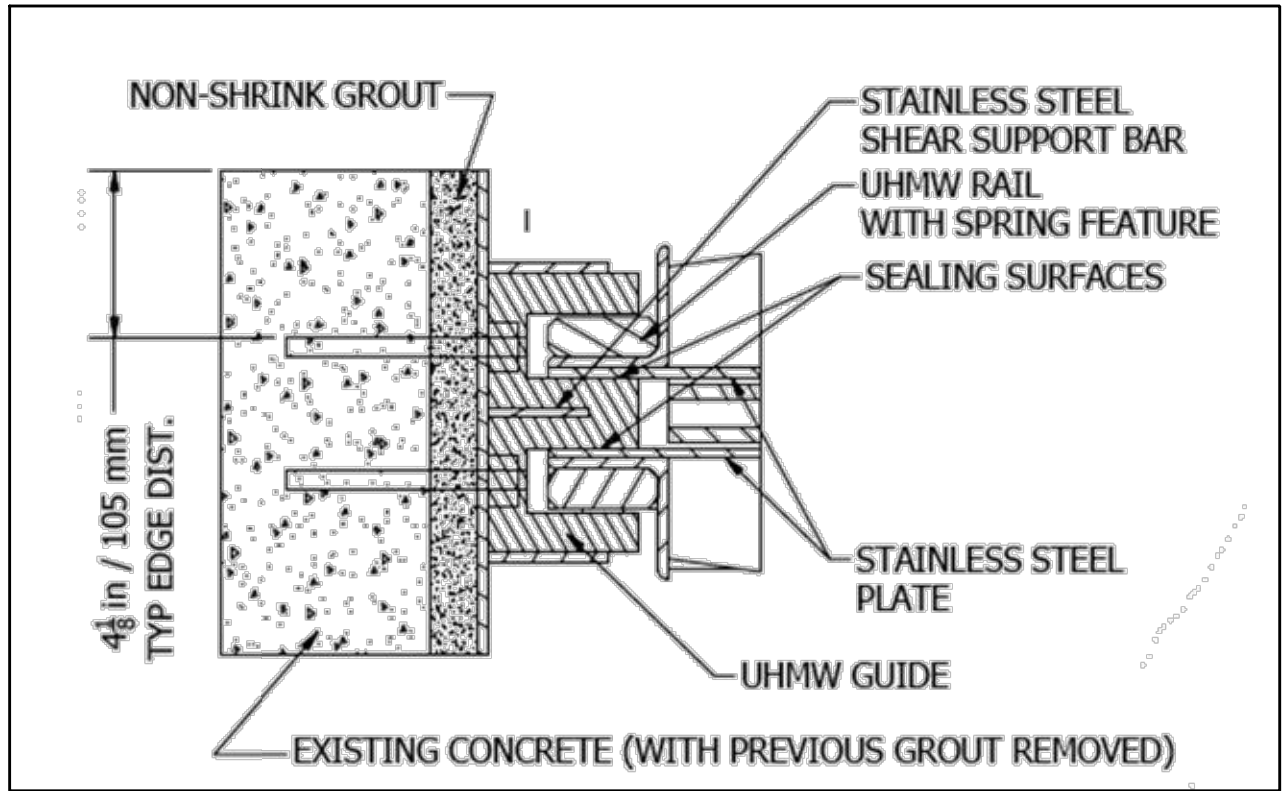
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DETAILS	SHEET CODE: C-25	SHEET NUMBER: 41

4

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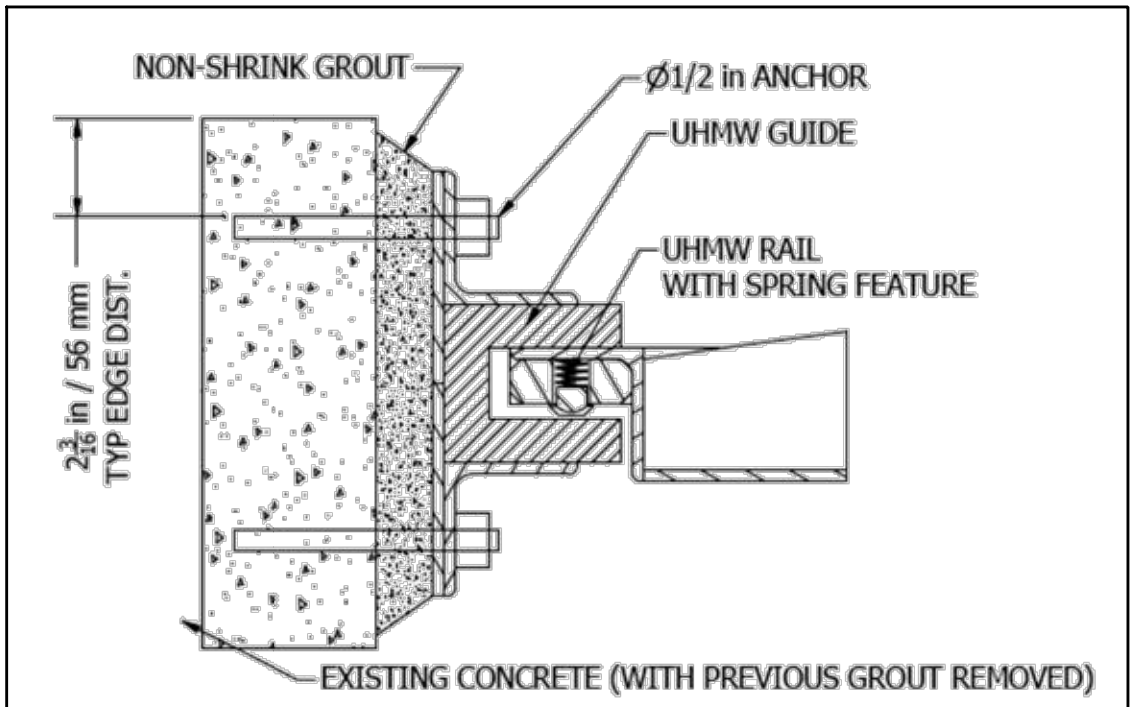
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DOCUMENT NUMBER: C00-C-9248-75884



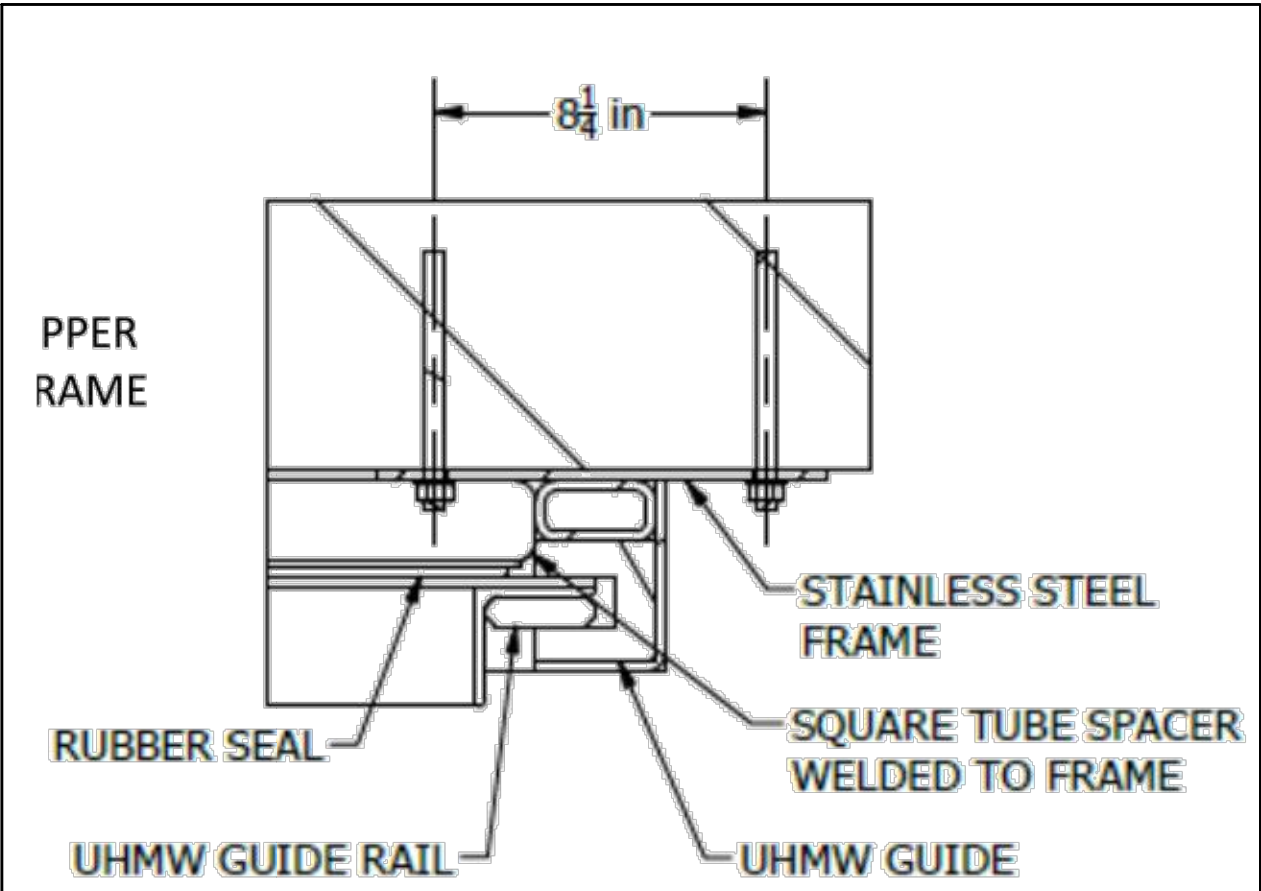
SECTION A
C-06

SCALE: N.T.S.



SECTION B
C-06

SCALE: N.T.S.



SECTION C
C-06

SCALE: N.T.S.

ANCHORAGE – BILL OF MATERIALS		
WEIR	SPACING (IN)	QUANTITY
1	28.8	20
2	28.8	20
3	28.8	20
4	28.8	20
5	28.8	20
6	28.8	20
7	28.8	20
8	28.8	20
9	28.8	20
Q0	28.8	20
11	12.8	40
12	12.8	40
13	12.8	40
SLIDE GATE	VARIES	44
	TOTAL QTY	364

NOTE:
ANCHORAGE SHALL BE 1/2-IN EPOXY ADHESIVE ANCHORS WITH AN EMBEDMENT OF 4.5-IN

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES	

DATE JAN 2023	
DESIGN Y. LEE	
DRAWN Z. KHAN	
CHECKED K.NEUMAN	
PROJECT ENGINEER	
DATE	

SANTA CLARA VALLEY WATER DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
ANCHORAGE DETAILS

SCALE AS SHOWN	PROJECT NUMBER 91864009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-26 SHEET NUMBER: 42

USERNAME: OcasReyn Thu 12 Jan 2023 04:51pm
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DOCUMENT NUMBER: COO-S-9248-75885

RETAINING WALLS AND RUBBER DAM FOUNDATION STRUCTURAL NOTES:

- CONTRACTOR MUST VERIFY ALL FIELD DIMENSIONS AND EXISTING FIELD CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
- CONTRACTOR MUST BE SOLELY RESPONSIBLE FOR COMPLYING WITH CURRENT FEDERAL, STATE AND LOCAL SAFETY AND HEALTH STANDARDS AND ORDINANCES.
- CONTRACTOR MUST BE RESPONSIBLE TO COORDINATE ALL DIMENSIONS AND DETAILS FROM PLANS BY OTHER TRADES AND ALL FIELD CONDITIONS. ANY DISCREPANCY FOUND MUST BE REPORTED TO THE SCVWD AND RESOLVED PRIOR TO FURTHER CONSTRUCTION IN RELATION TO THE DISCREPANCY.
- DIMENSIONS SUCH AS THICKNESS, CLEARANCE TO REINFORCING BARS, ETC. MUST BE NET (NON-NOMINAL) UNLESS OTHERWISE NOTED. ANY VARIATION, IF NEEDED, MUST BE APPROVED BY SCVWD PRIOR TO IMPLEMENTING THEM.
- CONTRACTOR MUST BE SOLELY RESPONSIBLE FOR TEMPORARY SHORING FOR EXISTING OR NEW CONSTRUCTION OF TRENCHES; THEIR SELECTION, DESIGN, INSTALLATION, SAFE MAINTENANCE AND REMOVAL AS REQUIRED. ALSO, SHORING AT TRENCHES AND SHORING FOR SLOPE STABILITY MUST BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST COMPLY WITH EXCAVATION AND SAFETY REQUIREMENTS BY CAL-OSHA.
- WHERE SHORING IS REQUIRED, CONTRACTOR MUST SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS DULY DESIGNED, PREPARED AND WET SIGNED BY A CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA FOR REVIEW PRIOR TO CONSTRUCTION.
- ALL EXISTING FACILITIES, STRUCTURES, TREES, FENCES, LANDSCAPING, ETC., DESIGNATED "EXIST" OR SHOWN AS EXISTING ARE TO REMAIN. ONLY THOSE SPECIFICALLY DESIGNATED FOR REMOVAL OR DEMOLITION AS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER MUST BE REMOVED.
- LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE BASED ON THE INFORMATION RECEIVED FROM THE UTILITY AND MUST BE CONSIDERED AS FOR REFERENCE ONLY.
- PRIOR TO PERFORMING ANY WORK IN THE VICINITY OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR MUST FIELD VERIFY THEIR LOCATIONS AND DEPTHS AND TAKE PROPER PRECAUTIONS TO AVOID ANY DAMAGE TO THEM.
- THE CONTRACTOR MUST INSTALL TEMPORARY FENCES AND WARNING SIGNS OR DEVICES AS SHOWN ON THE DRAWINGS AS NECESSARY.
- THE CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS AT THE STATE WATER RESOURCES CONTROL BOARDS FOR STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES.
- ALL STEEL IMBEDS, ANCHORS, AND FASTENERS MUST BE STAINLESS STEEL, UNLESS NOTED OTHERWISE.
- CONTRACTOR MUST COORDINATE ALL CONSTRUCTION AND DETAILS PER THESE PLANS AND RELEVANT CODES AND ORDINANCES. ANY DETAILS NOT SHOWN MUST BE CONSTRUCTED SIMILAR TO ITEMS SHOWN, SUBJECT TO APPROVAL BY THE SCVWD AND MUST BE CONSIDERED INCLUDED IN THIS CONTRACT.
- FOOTINGS TO BE POURED NEATLY ONTO EXISTING UNDISTURBED SOIL UNLESS NOTED OTHERWISE ON PLANS.
- CONTRACTOR MUST COORDINATE ANY INSPECTIONS AND TESTING WITH THE SCVWD CERTIFIED INSPECTOR.
- CONTRACTOR MUST SUBMIT MANUFACTURER'S PRODUCT INFORMATION FOR BONDING MATERIAL FOR REVIEW BY THE SCVWD FOR ANY "DRILL AND BOND" DOWELS.
- FOUNDATION DESIGN IS BASED ON GEOTECHNICAL DESIGN REPORT PREPARED BY CAL ENGINEERING & GEOLOGY, DECEMBER 2022.

DESIGN DATA (CONTROL BUILDING RETAINING WALLS):

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION WITH CA AMENDMENTS

SOIL LOADS: ACTIVE SOIL PRESSURE
P=18 PCF (SATURATED)
P=37 PCF
AT REST SOIL PRESSURE
P=57 PCF
P=29 PCF (SATURATED)

PASSIVE SOIL PRESSURE
P=350 PSF (ABOVE GROUNDWATER LEVEL)
P=200 PCF (BELOW GROUNDWATER LEVEL)
NEGLECT UPPER 2 FEET OF PASSIVE PRESSURE
HYDROSTATIC PRESSURE WAS ADDED TO ALL SATURATED SOIL PRESSURES.

SEISMIC LATERAL SURCHARGE LOADS: P=37.3 PCF (APPLIED AS TRIANGULAR SHAPE)

LIVE LOAD SURCHARGE: 200 PSF
(WALL TYPE A AND B)

BUILDING SURCHARGE: 30 PSF BEGINNING 2 FT BELOW THE TOP OF WALL AND INCREASING LINEARLY TO 300 PSF 6 FT BELOW THE TOP OF WALL.
(WALL TYPE C AND D) 300 PSF FROM 6 FT BELOW THE TOP OF WALL TO THE BOTTOM OF WALL.

DESIGN DATA (SOUTH SLOPED SIDEWALL SUPPORT WALLS):

DESIGN: US ARMY CORPS OF ENGINEERS DESIGN MANUAL, "STRENGTH DESIGN FOR REINFORCED CONCRETE HYDRAULIC STRUCTURES", 2016
US ARMY CORPS OF ENGINEERS DESIGN MANUAL, "STABILITY ANALYSIS OF CONCRETE STRUCTURES", 2005.

SOIL LOAD: ACTIVE SOIL PRESSURE
P = 37PCF
P = 18PCF (SATURATED)
AT-REST SOIL PRESSURE
P = 57PCF
P = 29PCF (SATURATED)
PASSIVE SOIL PRESSURE
P = 350 PSF (ABOVE GROUNDWATER LEVEL)
P = 200 PCF (BELOW GROUNDWATER LEVEL)
NEGLECT UPPER 2 FEET OF PASSIVE PRESSURE.
HYDROSTATIC PRESSURE WAS ADDED TO ALL SATURATED SOIL PRESSURES.

SEISMIC LATERAL SURCHARGE LOADS: P = 37.3 PCF (APPLIED AS TRIANGULAR SHAPE)

DESIGN DATA (RUBBER DAM FOUNDATION):

DESIGN: US ARMY CORPS OF ENGINEERS DESIGN MANUAL, "STRENGTH DESIGN FOR REINFORCED CONCRETE HYDRAULIC STRUCTURES", 2016

SEISMIC LOADS: US ARMY CORPS OF ENGINEERS DESIGN MANUAL, "STABILITY ANALYSIS OF CONCRETE STRUCTURES", 2005.

DEAD LOAD: SELF WEIGHT OF STRUCTURE AND HYDROSTATIC PRESSURE

SOIL LOAD: ACTIVE SOIL PRESSURE
P = 37 PCF
AT-REST PRESSURE
P = 57 PCF
PASSIVE SOIL PRESSURE
P = 350 PSF (ABOVE GROUNDWATER LEVEL)
P = 200 PCF (BELOW GROUNDWATER LEVEL)

MATERIAL DESIGN DATA:

CONCRETE: f'c = 4,000 PSI
REINFORCEMENT: Fy = 60,000 PSI ASTM A706
SHEET PILE: Fy = 38,500 PSI ASTM A328

CONCRETE NOTES:

- ALL CONCRETE MATERIAL, PLACEMENT AND WORKMANSHIP MUST BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
- ALL EXPOSED CONCRETE EDGES AND CORNERS MUST BE CHAMFERED WITH A 3/4 INCH, 45 DEGREE CHAMFER, UNLESS NOTED OTHERWISE.

CONCRETE REINFORCING:

- FABRICATION OF REINFORCING STEEL MUST BE IN ACCORDANCE WITH ACI 301, ACI 318 AND CRSI MANUAL OF STANDARD PRACTICE. IN THE EVENT OF CONFLICTS BETWEEN SPECIFICATIONS, THE MORE RESTRICTIVE STANDARD MUST GOVERN.
- REINFORCING STEEL IS TO BE BLOCKED AND TIED TO PROPER PLACEMENT AND SECURELY WIRED AGAINST DISPLACEMENT IN ACCORDANCE WITH CRSI. TACK WELD OF REINFORCEMENT IS PROHIBITED.
- WRITTEN SPACING AND LOCATION OF REINFORCING MUST TAKE PRECEDENCE OVER DEPICTED SPACING AND LOCATION.

INDEX TO PLANS

SHEET	TITLE
S-01	RETAINING WALLS AND DAM FOUNDATION STRUCTURAL NOTES
S-02	GENERAL PLAN
S-03	RUBBER DAM ELEVATION
S-04	DAM FOUNDATION SLAB DETAILS No. 1
S-05	DAM FOUNDATION SLAB DETAILS No. 2
S-06	SOUTH SLOPED SIDEWALL SUPPORT WALL
S-07	SOUTH SLOPED SIDEWALL SUPPORT WALL DETAILS
S-08	SLOPED SIDEWALL END WALL
S-09	FISH LADDER WALL OPENING
S-10	MISCELLANEOUS EQUIPMENT SUPPORT DETAILS
S-11	CONTROL BUILDING RETAINING WALL GENERAL PLAN
S-12	CONTROL BUILDING RETAINING WALL DETAILS
S-13	DAM AND RETAINING WALL MISCELLANEOUS DETAILS
S-14	CALTRANS STANDARD PLANS - CHAIN LINK RAILING
S-15	CONTROL BUILDING STRUCTURAL NOTES
S-16	CONTROL BUILDING FOUNDATION AND ROOF FRAMING PLANS
S-17	CONTROL BUILDING CONCRETE BLOCK WALL ELEVATIONS
S-18	CONTROL BUILDING TYPICAL SECTIONS AND DETAILS 1 OF 3
S-19	CONTROL BUILDING TYPICAL SECTIONS AND DETAILS 2 OF 3
S-20	CONTROL BUILDING TYPICAL SECTIONS AND DETAILS 3 OF 3
A-1	CONTROL BUILDING ARCHITECTURAL DETAILS

ABBREVIATIONS

CLR	CLEAR
TYP	TYPICAL
SCVWD	SANTA CLARA VALLEY WATER DISTRICT
ELEV	ELEVATION

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

BCA

865 The Alameda
San Jose, California 95126
408-296-5515

DATE 12/02/22
DESIGN N. VASQUEZ
DRAWN J. DELGADO
CHECKED D. DEVLIN

ENGINEERING CERTIFICATION

M. Vasquez

REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA
12/2/2022

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT



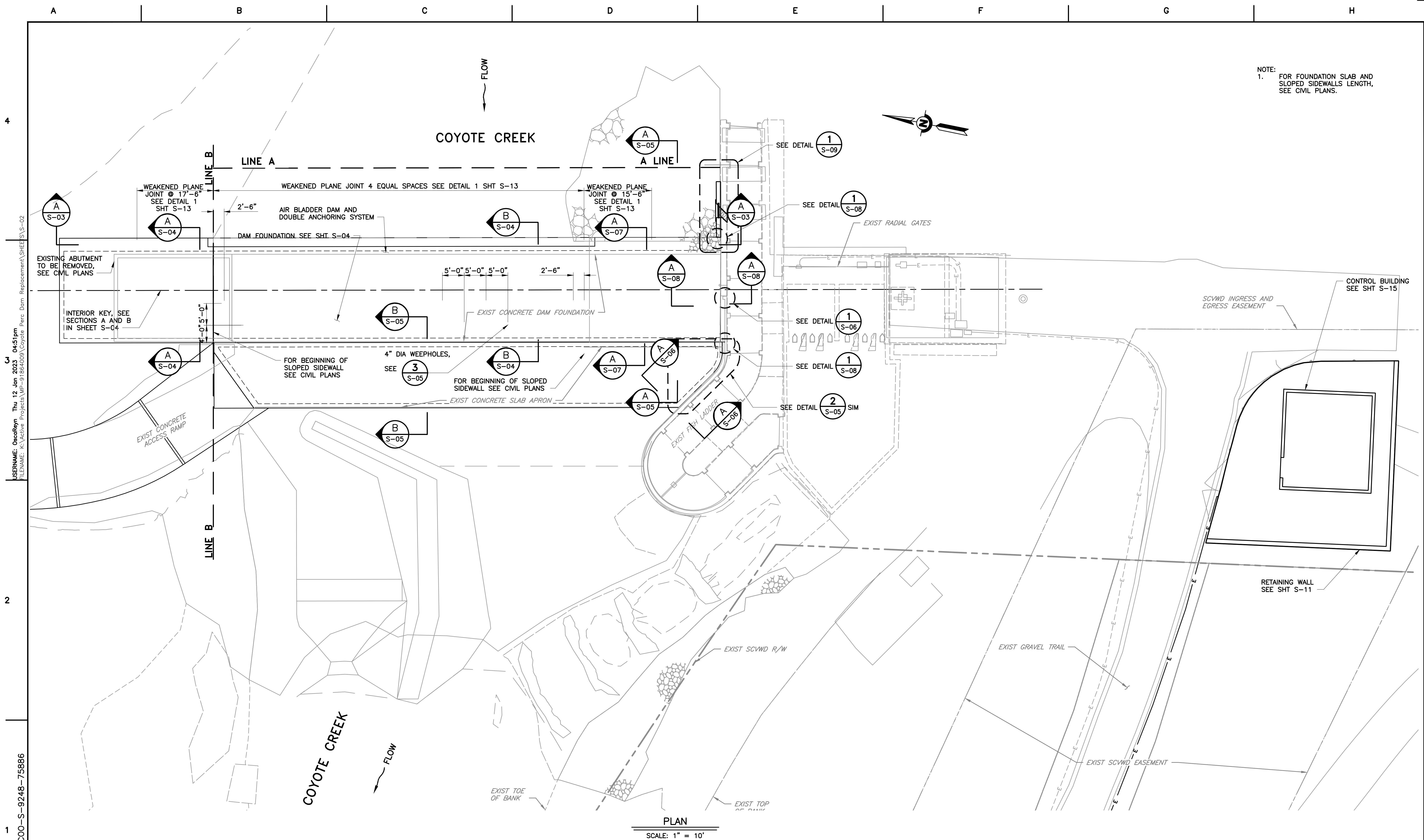
PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

COYOTE PERCOLATION DAM REPLACEMENT

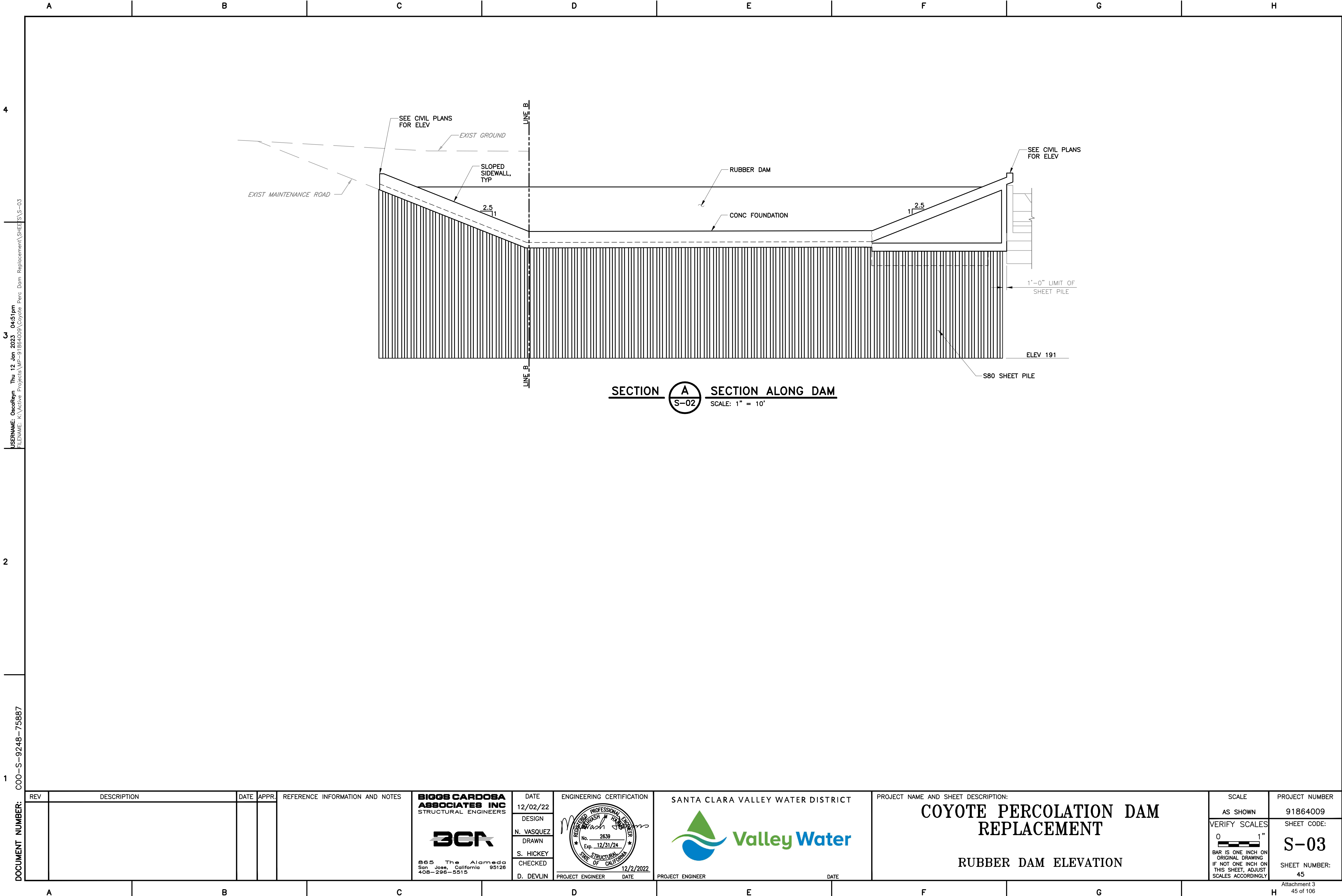
RETAINING WALLS AND DAM FOUNDATION STRUCTURAL NOTES

SCALE AS SHOWN	PROJECT NUMBER 91864009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-01 SHEET NUMBER: 43



NOTE:
1. FOR FOUNDATION SLAB AND SLOPED SIDEWALLS LENGTH, SEE CIVIL PLANS.

DOCUMENT NUMBER: COO-S-9248-75886		USERNAME: OsoReyn Thu 12 Jan 2023 04:51pm FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEET\S-02															
REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES		BIGGS CARDOSA ASSOCIATES INC STRUCTURAL ENGINEERS		ENGINEERING CERTIFICATION		SANTA CLARA VALLEY WATER DISTRICT		PROJECT NAME AND SHEET DESCRIPTION:		SCALE		PROJECT NUMBER	
				1. SCVWD RIGHT-OF-WAY ALIGNMENT SHOWN IS APPROXIMATE.		DATE 12/02/22 DESIGN N. VASQUEZ DRAWN A. ROSALES CHECKED D. DEVLIN		No. 2639 Exp. 12/31/24 12/2/2022		Valley Water		COYOTE PERCOLATION DAM REPLACEMENT		AS SHOWN		91864009	
						BCR		PROJECT ENGINEER DATE				GENERAL PLAN		VERIFY SCALES		SHEET CODE:	
						865 The Alameda San Jose, California 95126 408-296-5515								0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		S-02	
																SHEET NUMBER:	
																44	
																Attachment 3 44 of 106	



USERNAME: OscarReyn Thu 12 Jan 2023 04:51pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEET\S-03

DOCUMENT NUMBER: COO-S-9248-75887

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

865 The Alameda
San Jose, California 95126
408-296-5515

DATE	12/02/22
DESIGN	N. VASQUEZ
DRAWN	S. HICKEY
CHECKED	D. DEVLIN

ENGINEERING CERTIFICATION

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

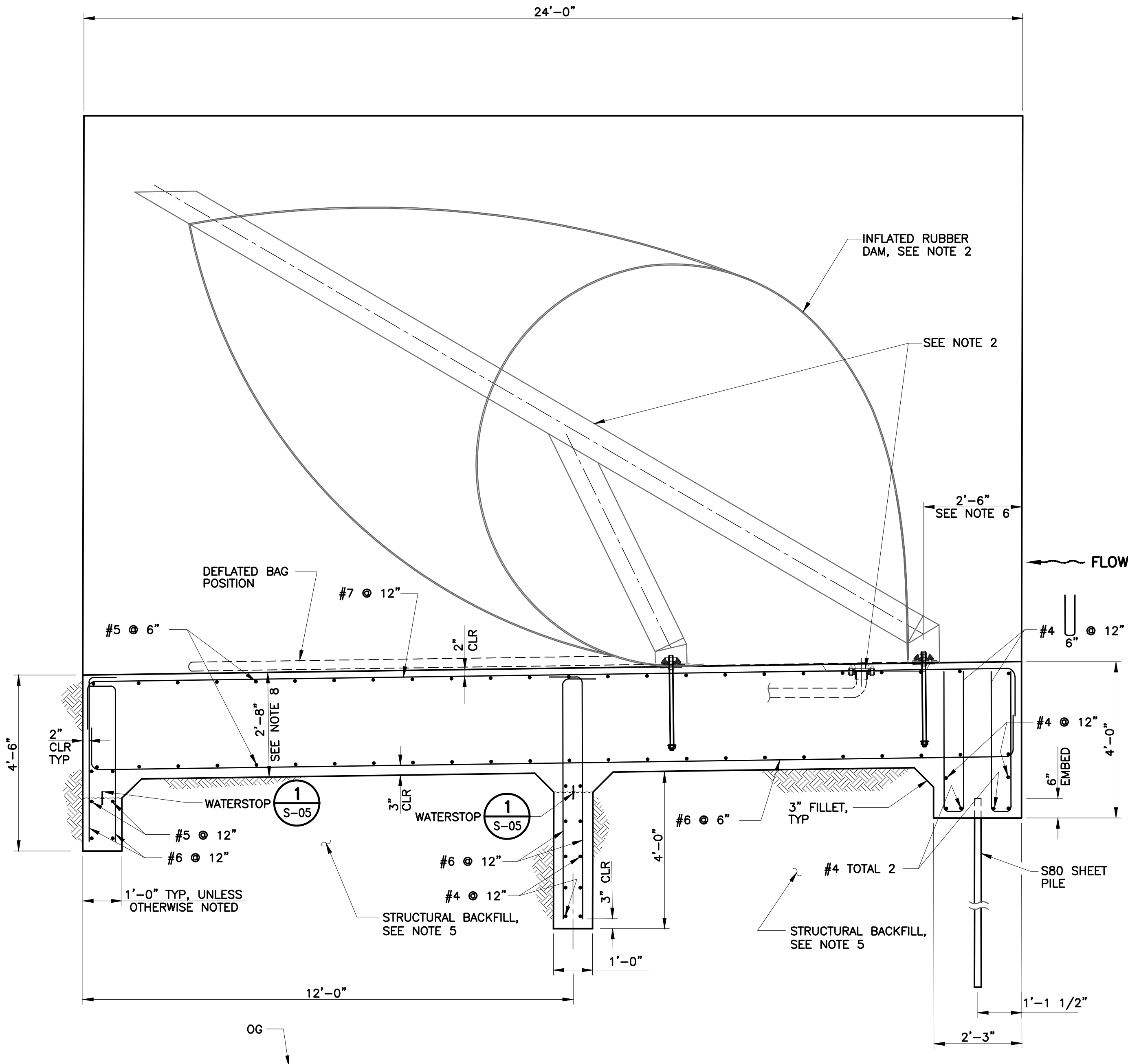
COYOTE PERCOLATION DAM REPLACEMENT

RUBBER DAM ELEVATION

SCALE AS SHOWN	PROJECT NUMBER 91864009
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-03 SHEET NUMBER: 45

USERNAME: OcasReyn Thu 12 Jan 2023 04:51pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEET\S-04

DOCUMENT NUMBER: COO-S-9248-75888



SECTION **A**
S-02 NORTH SLOPED SIDEWALL
SCALE: 1/2" = 1'-0"

NOTES:

1. FOR TOP OF DAM ELEVATIONS, SLOPED SIDEWALL ELEVATIONS AND RUBBER DAM FOUNDATION SLAB ELEVATIONS SEE CIVIL PLANS.
2. FOR RUBBER DAM, EMBEDDED ANCHORS, EMBEDDED LOWER CLAMPING PLATE, AND ALL ASSOCIATED COMPONENTS SEE M-SHEETS.
3. LAP SPLICES ARE NOT ALLOWED IN MAIN SLAB TRANSVERSE REINFORCEMENT.
4. FOR SHEET PILE LIMITS, SEE SECTION A IN SHEET S-03.
5. FOR STRUCTURAL BACKFILL SEE SECTION 24 OF PROJECT SPECIFICATIONS.
6. CONFIRM DIMENSIONS WITH M-SHEETS, NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
7. IF REQUIRED CUT TOP OF EXISTING SHEET PILING TO ALLOW 2" CLEAR DISTANCE FROM TOP OF EXISTING SHEET PILE TO BOTTOM OF FOUNDATION SLAB.
8. MEASURED NORMAL TO THE PLANE OF THE TOP FACE OF THE SLOPED SLAB.

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

BCR

865 The Alameda
San Jose, California 95126
408-296-5515

DATE
12/02/22
DESIGN
N. VASQUEZ
DRAWN
S. HICKEY
CHECKED
D. DEVLIN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA
12/2/2022

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT ENGINEER DATE

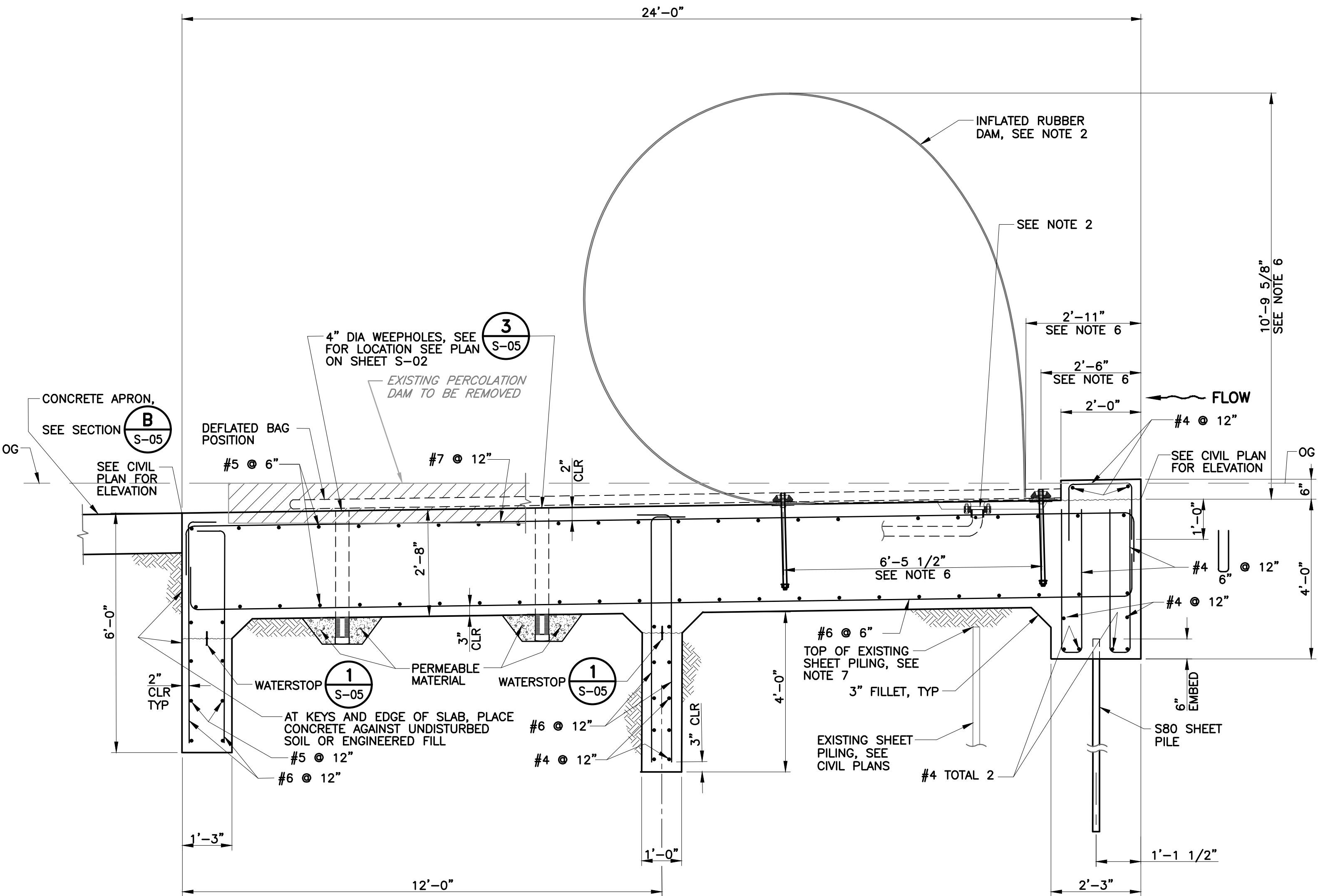
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COYOTE PERCOLATION DAM REPLACEMENT

DAM FOUNDATION SLAB DETAILS No. 1

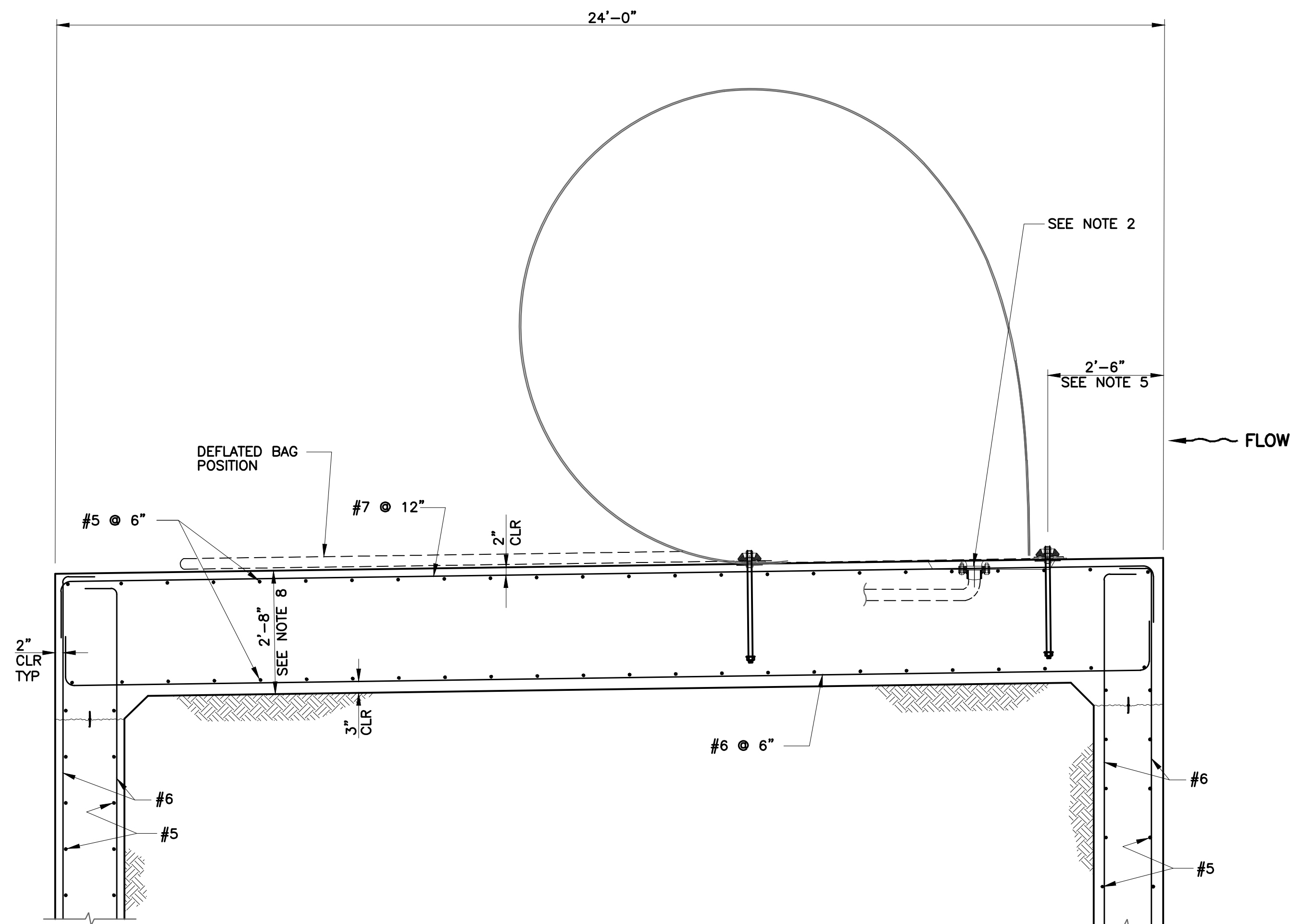
SCALE
AS SHOWN
VERIFY SCALES
0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER
91864009
SHEET CODE:
S-04
SHEET NUMBER:
46

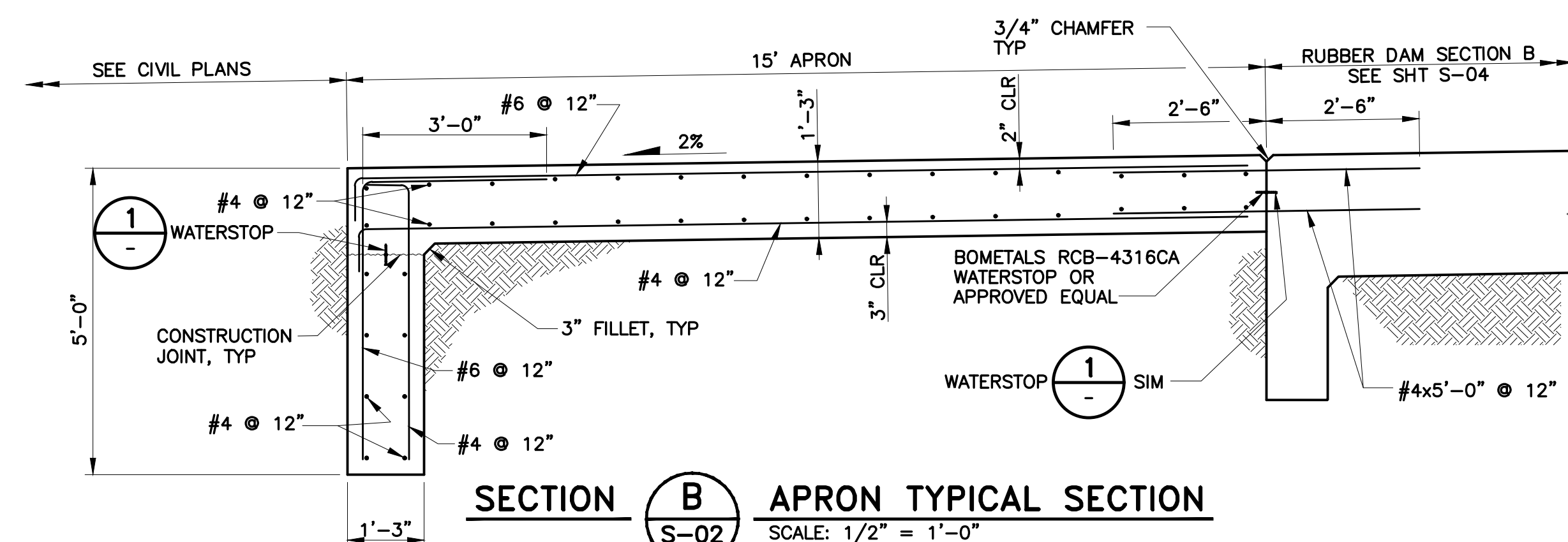


SECTION **B**
S-02 RUBBER DAM FOUNDATION SLAB TYPICAL SECTION
SCALE: 1/2" = 1'-0"

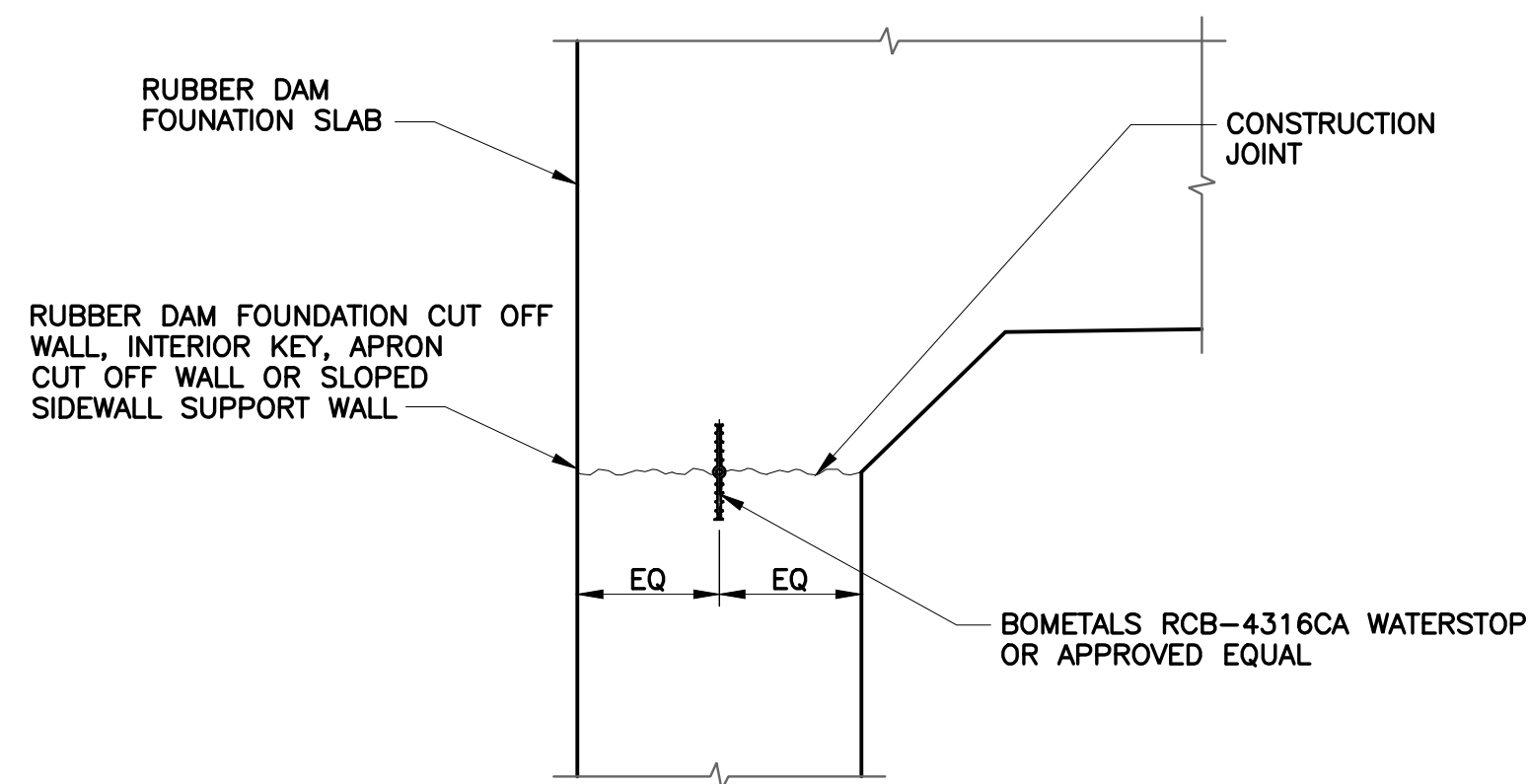
1. FOR TOP OF DAM ELEVATIONS, TOP OF WALL ELEVATIONS AND SLAB ELEVATIONS, SEE CIVIL PLANS.
2. FOR RUBBER DAM, EMBEDDED ANCHORS, EMBEDDED LOWER CLAMPING PLATE, AND ALL ASSOCIATED SEE M-SHEETS.
3. LAP SPICES ARE NOT ALLOWED IN MAIN SLAB TRANSVERSE REINFORCEMENT.
4. FOR STRUCTURAL BACKFILL, SEE SECTION 24 OF PROJECT SPECIFICATIONS.
5. CONFIRM DIMENSIONS WITH M-SHEETS, NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
6. MEASURED NORMAL TO THE PLANE OF THE TOP FACE OF THE SLOPED SLAB.



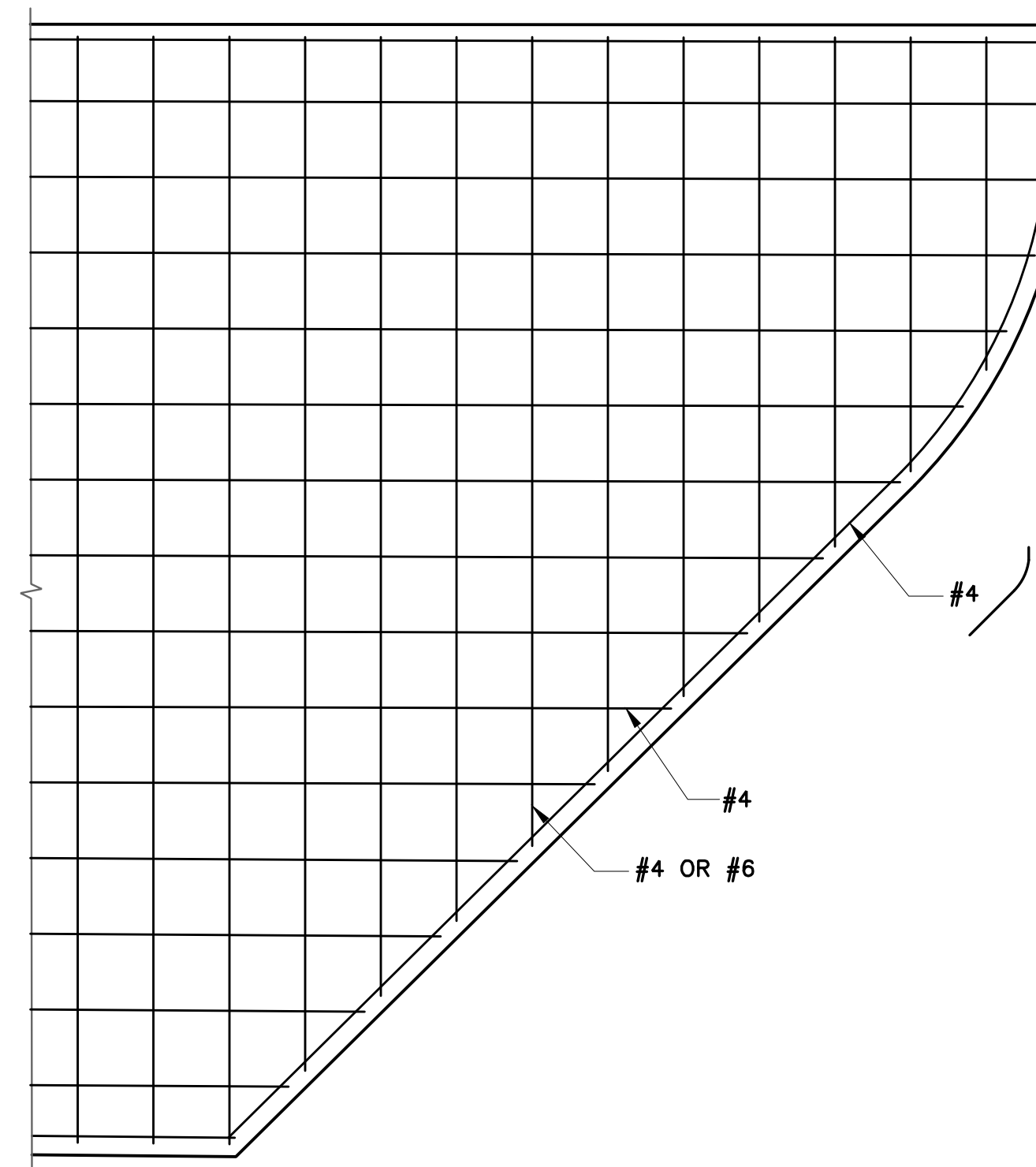
SECTION A SOUTH SLOPED SIDEWALL
 S-02 SCALE: 1/2" = 1'-0"



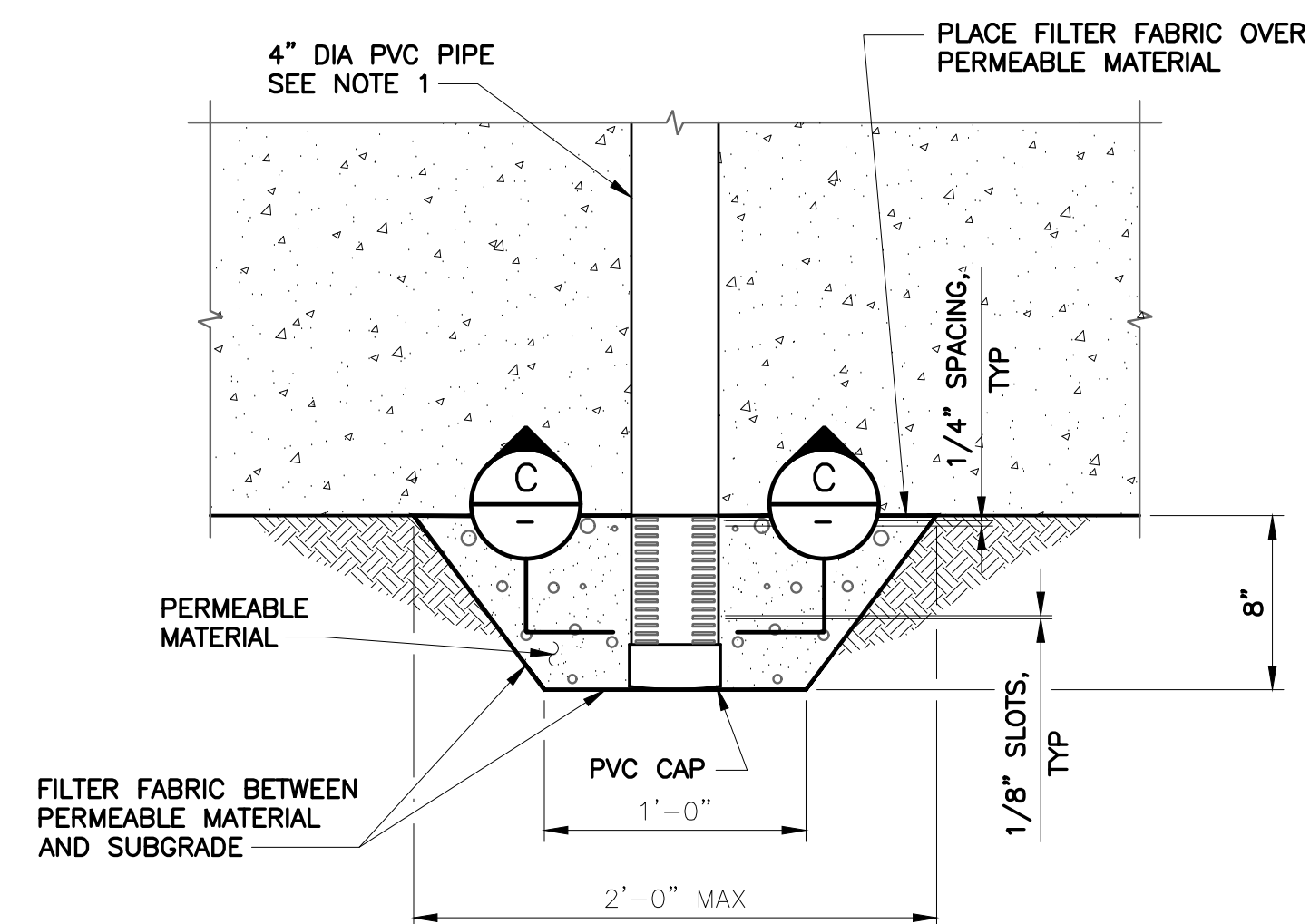
SECTION B APRON TYPICAL SECTION
S-02 SCALE: 1/2" = 1'-0"



DETAIL **1** **WATERSTOP**
 —
 S-04
 S-05
 S-07
 SCALE: 1 1/2" = 1'-0"

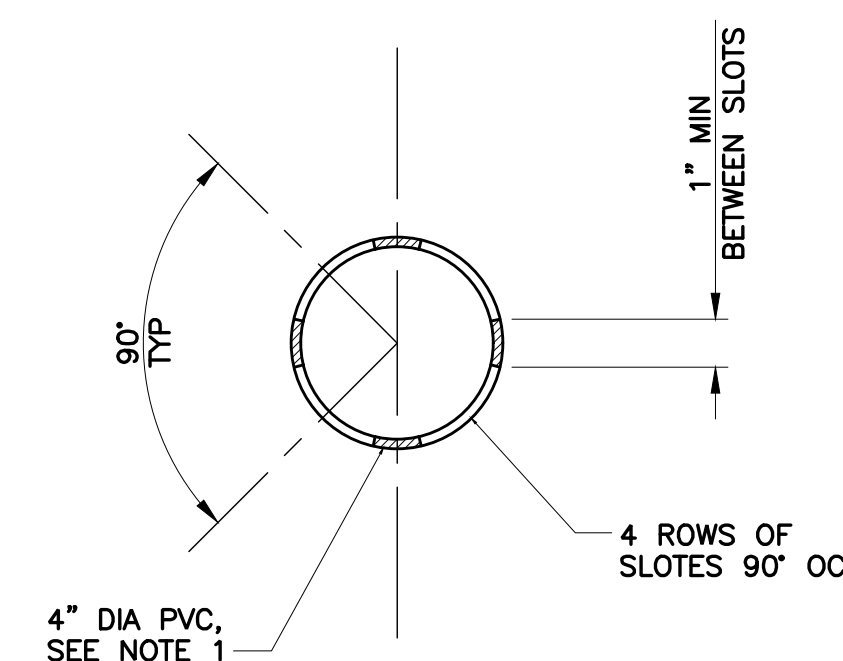


DETAIL **2** **CONCRETE APRON CORNER REBAR DETAIL**
S-02 SCALE: 1/2" = 1'-0"



DETAIL  4" DIA WEEPHOLE DETAIL
NO SCALE

- NOTES:**
1. CUT PVC FLUSH WITH TOP SURFACE OF CONCRETE SLAB.
 2. WRAP ONE LAYER OF FILTER FABRIC TIGHTLY OVER SLOTTED PIPE.
 3. FILL PVC PIPE WITH 3/8" PEA GRAVEL.



SECTION  PVC PIPE
NO SCALE

DOCUMENT NUMBER:	REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES	BIGGS CARDOSA ASSOCIATES INC STRUCTURAL ENGINEERS BCA 865 The Alameda San Jose, California 95126 408-296-5515 <td> DATE 12/02/22 DESIGN N. VASQUEZ DRAWN S. HICKEY CHECKED D. DEVLIN PROJECT ENGINEER DATE </td> <td> ENGINEERING CERTIFICATION REGISTERED PROFESSIONAL ENGINEER N. VASQUEZ No. 2639 Exp. 12/31/24 STATE OF CALIFORNIA STRUCTURAL 12/2/2022 SANTA CLARA VALLEY WATER DISTRICT Valley Water PROJECT ENGINEER DATE <td> PROJECT NAME AND SHEET DESCRIPTION: COYOTE PERCOLATION DAM REPLACEMENT DAM FOUNDATION SLAB DETAILS No. 2 </td><td> SCALE AS SHOWN VERIFY SCALES 01" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY </td><td> PROJECT NUMBER 91864009 SHEET CODE: S-05 SHEET NUMBER: 47 </td></td>	DATE 12/02/22 DESIGN N. VASQUEZ DRAWN S. HICKEY CHECKED D. DEVLIN PROJECT ENGINEER DATE	ENGINEERING CERTIFICATION REGISTERED PROFESSIONAL ENGINEER N. VASQUEZ No. 2639 Exp. 12/31/24 STATE OF CALIFORNIA STRUCTURAL 12/2/2022 SANTA CLARA VALLEY WATER DISTRICT Valley Water PROJECT ENGINEER DATE <td> PROJECT NAME AND SHEET DESCRIPTION: COYOTE PERCOLATION DAM REPLACEMENT DAM FOUNDATION SLAB DETAILS No. 2 </td> <td> SCALE AS SHOWN VERIFY SCALES 01" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY </td> <td> PROJECT NUMBER 91864009 SHEET CODE: S-05 SHEET NUMBER: 47 </td>	PROJECT NAME AND SHEET DESCRIPTION: COYOTE PERCOLATION DAM REPLACEMENT DAM FOUNDATION SLAB DETAILS No. 2	SCALE AS SHOWN VERIFY SCALES 01" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91864009 SHEET CODE: S-05 SHEET NUMBER: 47
	A		R		C	D	F	F	G	H	

Attachment 3

47 of 106

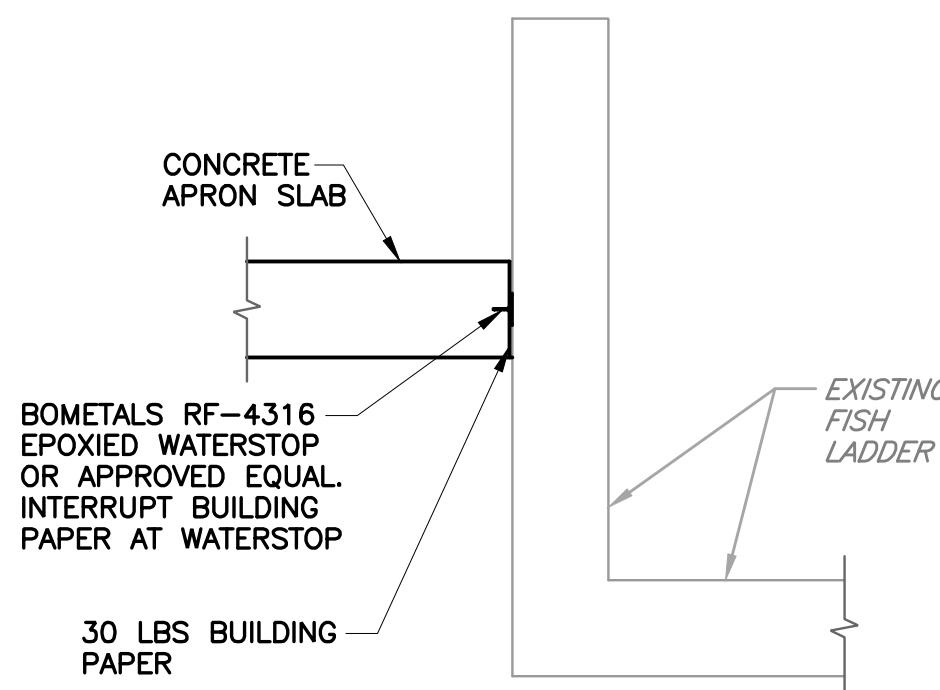
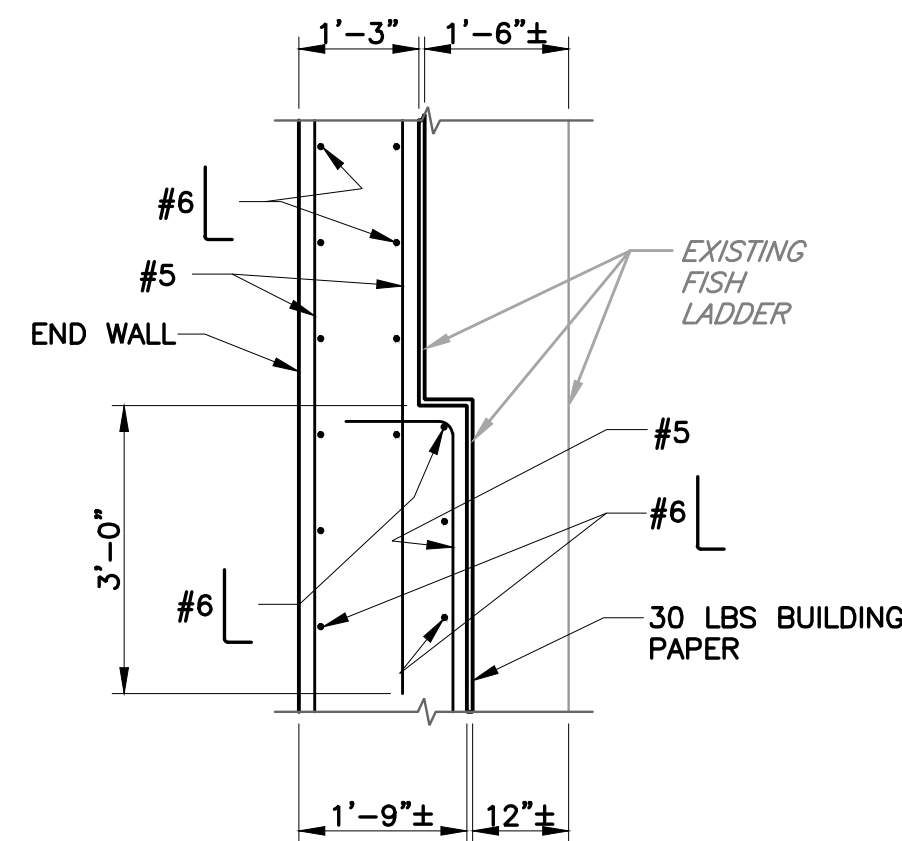
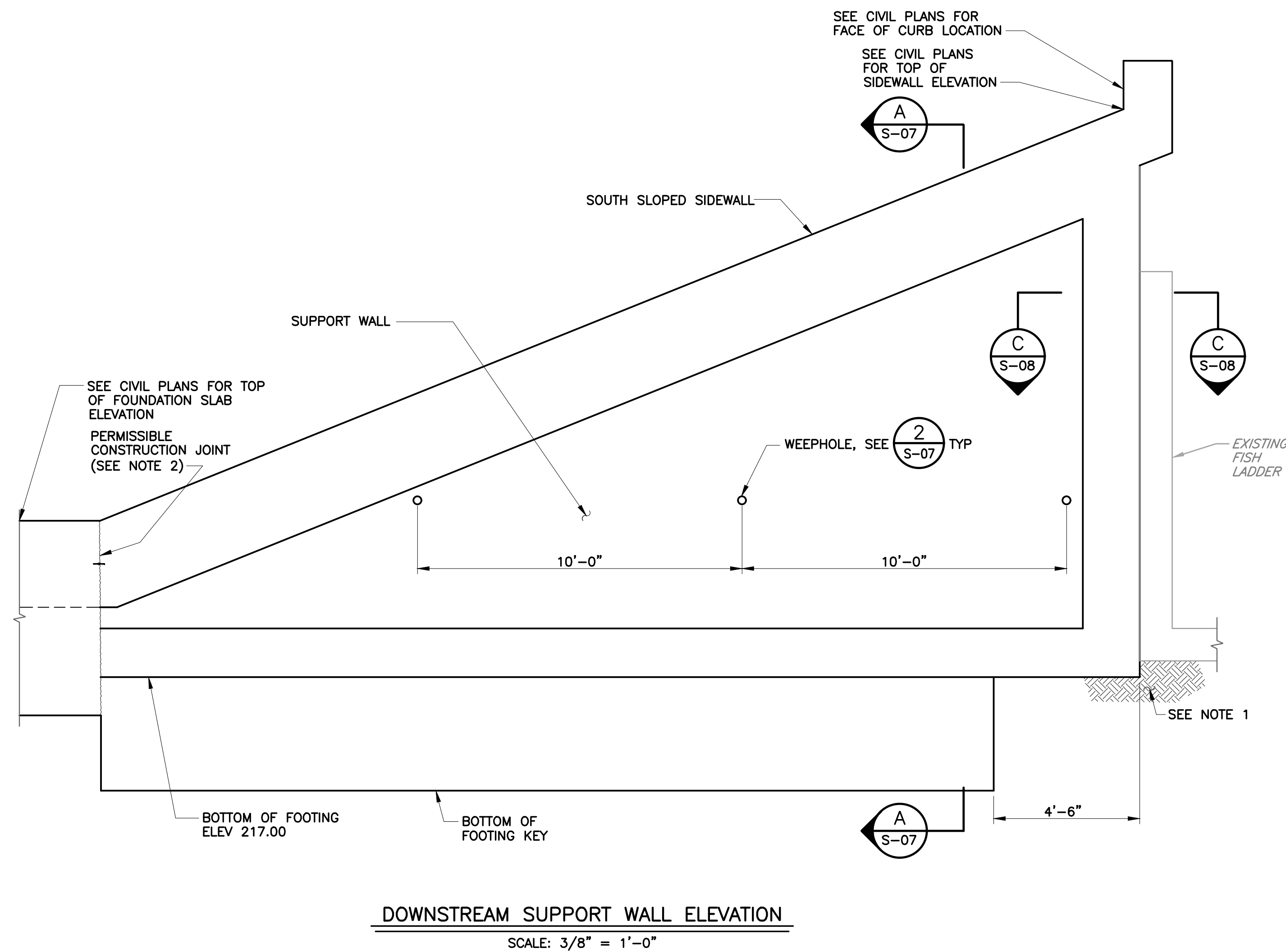
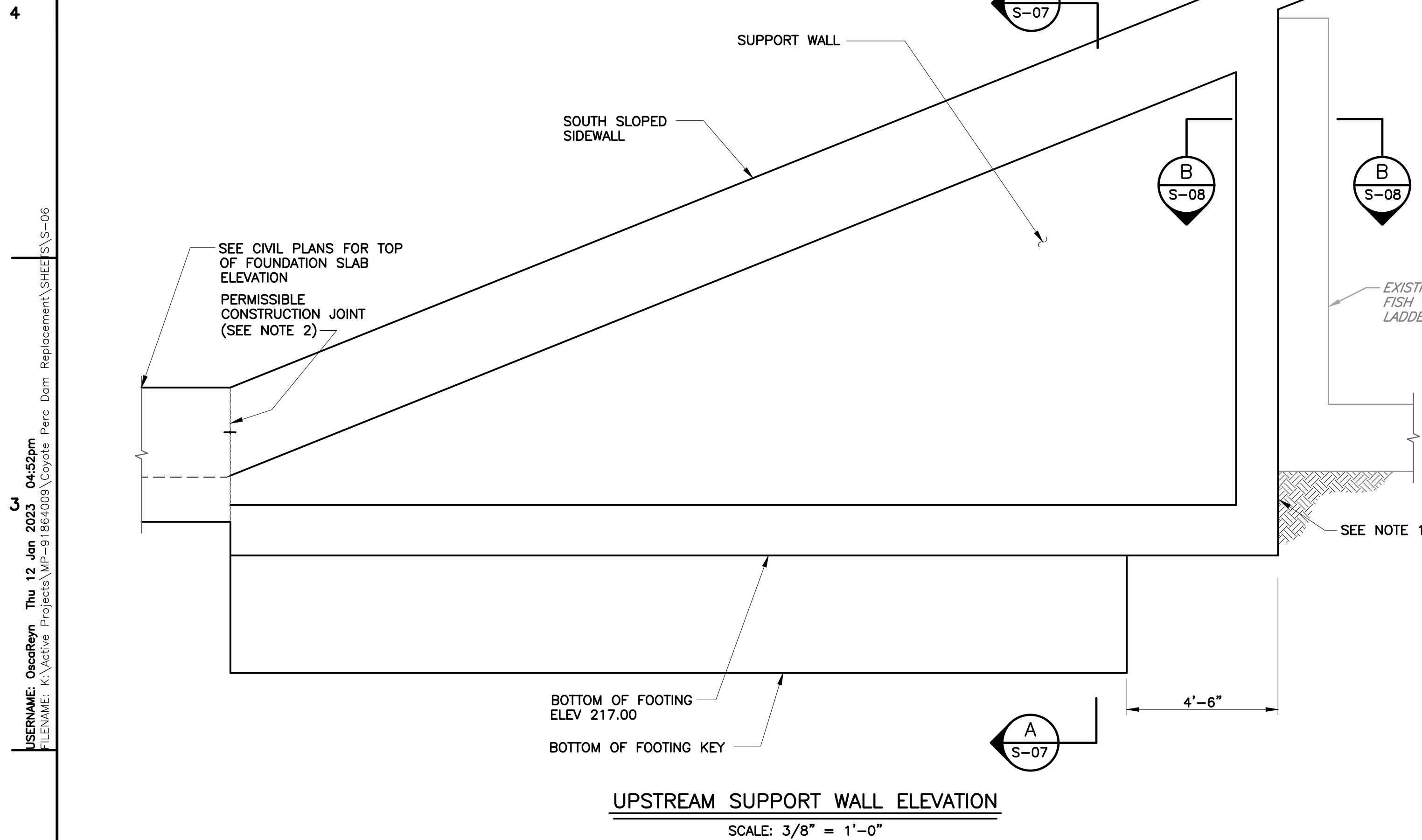
USERNAME: OscarReyn Thu 12 Jan 2023 04:52pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEET\S-06

DOCUMENT NUMBER: COO-S-9248-75890

4

2

1



NOTE:

- IF SOIL SLOUCHING OCCURS UNDER THE BOTTOM OF THE EXISTING FISH LADDER INVERT SLAB DURING FOOTING EXCAVATION, FILL VOIDS UNDER THE EXISTING FISH LADDER INVERT SLAB WITH SLURRY CEMENT BEFORE CONSTRUCTING THE END WALL.
- AT CONSTRUCTION JOINTS, PLACE BOMETALS RCB-4316CA WATERSTOP OR APPROVED EQUAL.

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

BCA

865 The Alameda
San Jose, California 95126
408-296-5515

DATE
12/02/22
DESIGN
N. VASQUEZ
DRAWN
S. HICKEY
CHECKED
D. DEVLIN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA
12/2/2022

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

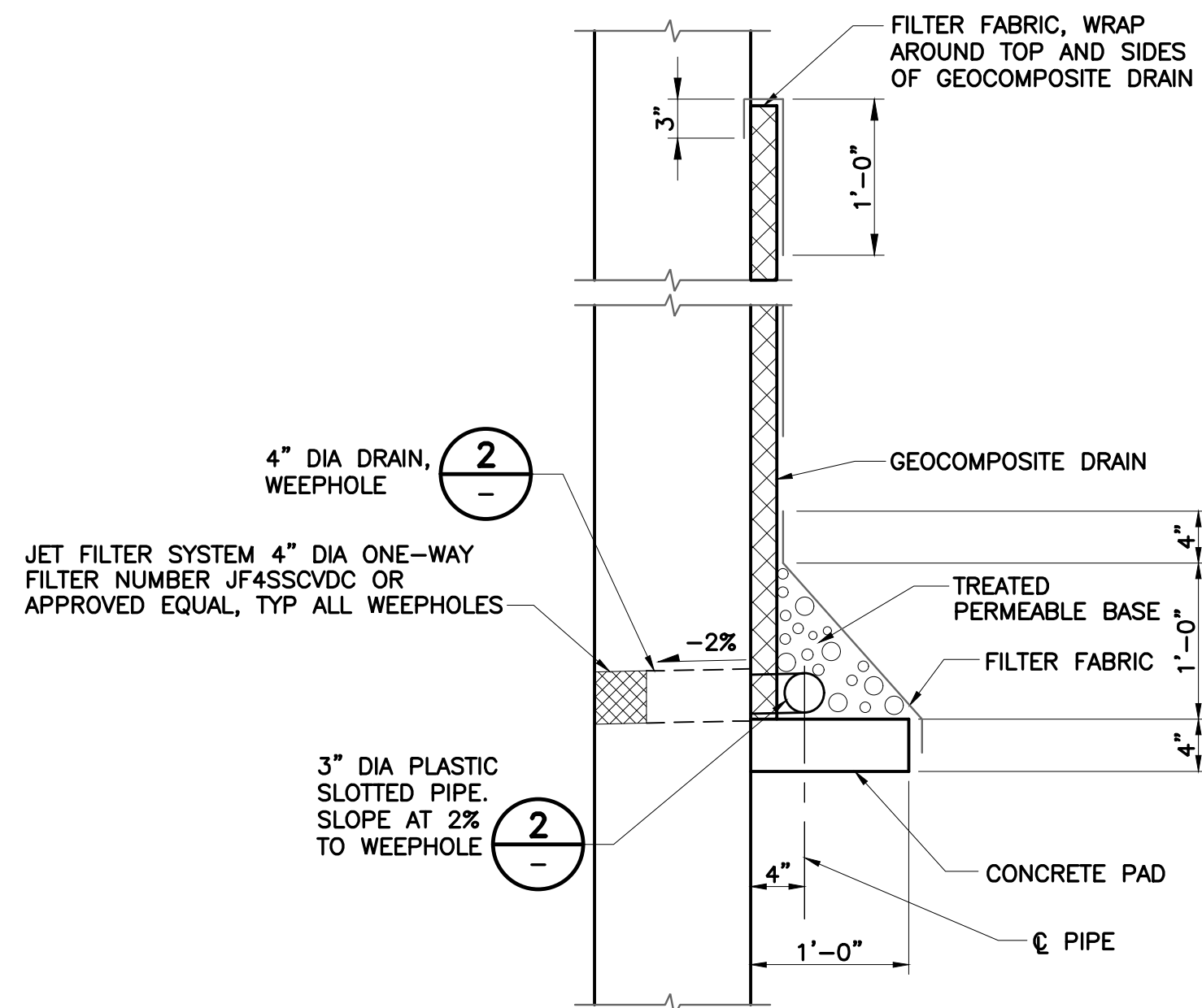
COYOTE PERCOLATION DAM REPLACEMENT

SOUTH SLOPED SIDEWALL SUPPORT WALL

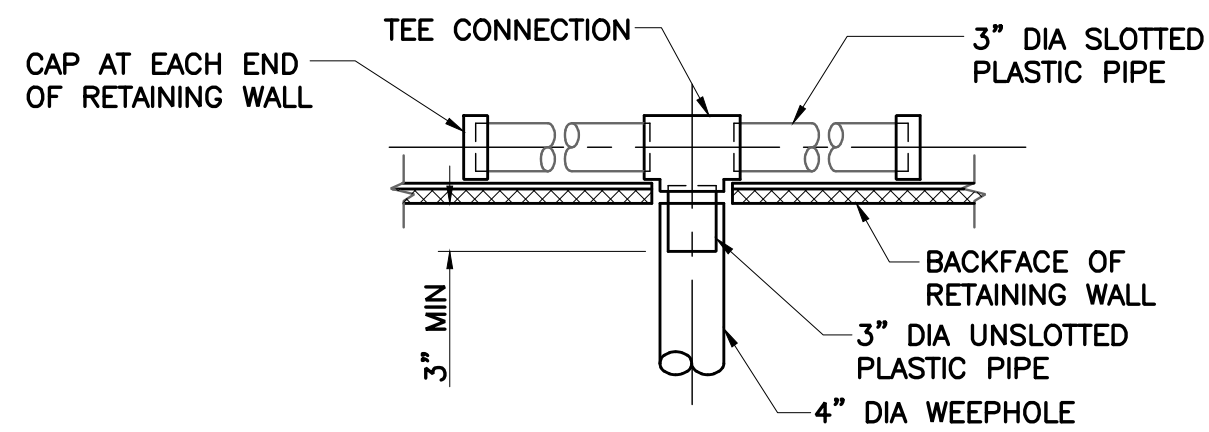
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VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-06 SHEET NUMBER: 48

USERNAME: OsoReyn Thu 12 Jan 2023 04:52pm
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DOCUMENT NUMBER: COO-S-9248-75891



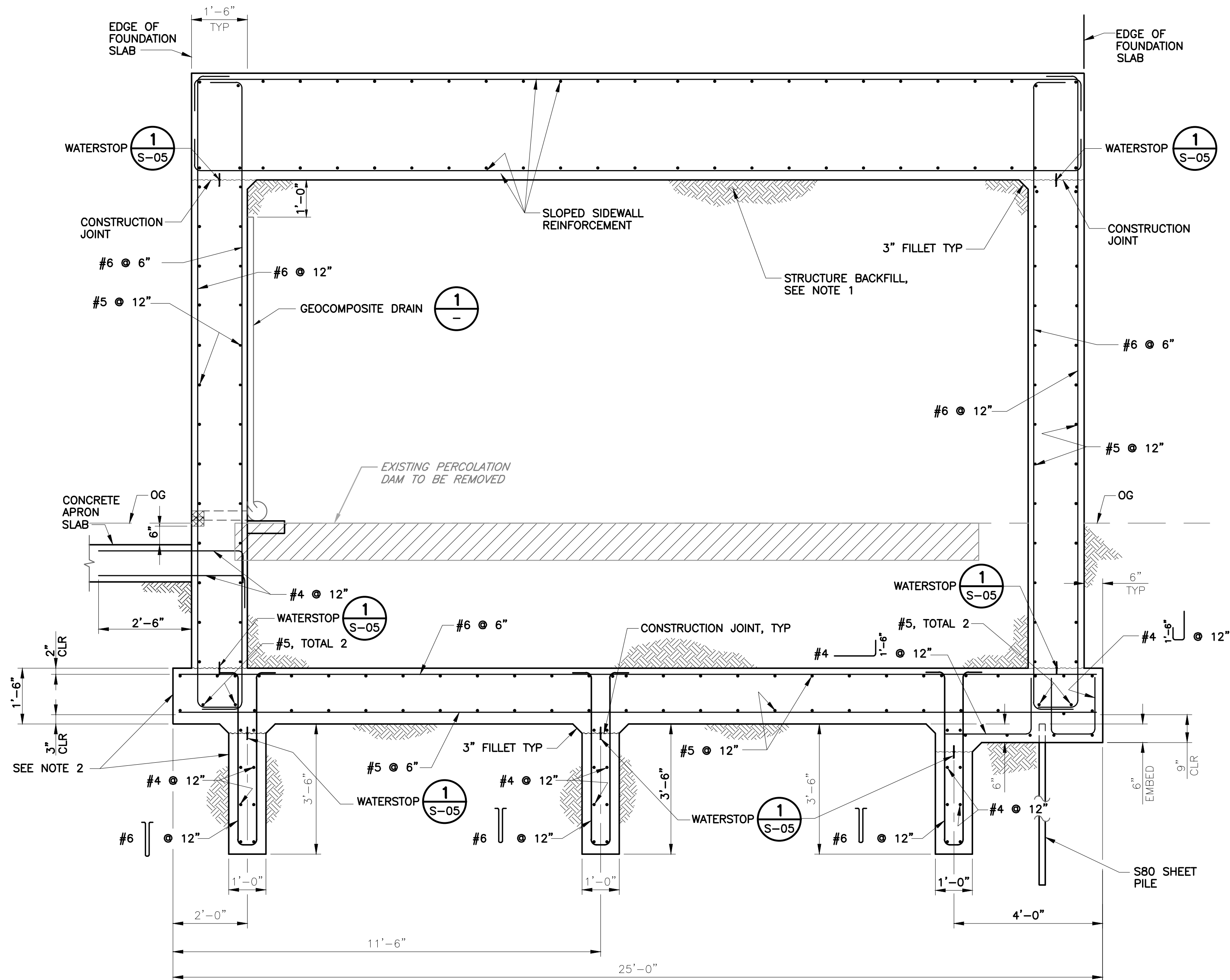
DETAIL 1 DRAINAGE
SCALE: 1" = 1'-0"



DETAIL 2 SLOTTED PIPE DETAILS
NO SCALE

NOTES:

- FOR STRUCTURAL BACKFILL SEE SECTION 24 OF PROJECT SPECIFICATIONS.
- AT KEYS AND EDGE OF SLAB, PLACE CONCRETE AGAINST UNDISTURBED SOIL OR ENGINEERED FILL.



SECTION A SUPPORT WALL TYPICAL SECTION
SCALE: 1/2" = 1'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

BCR
865 The Alameda
San Jose, California 95126
408-296-5515

DATE
12/02/22
DESIGN
N. VASQUEZ
DRAWN
S. HICKEY
CHECKED
D. DEVLIN

ENGINEERING CERTIFICATION

PROJECT ENGINEER DATE 12/2/2022

SANTA CLARA VALLEY WATER DISTRICT

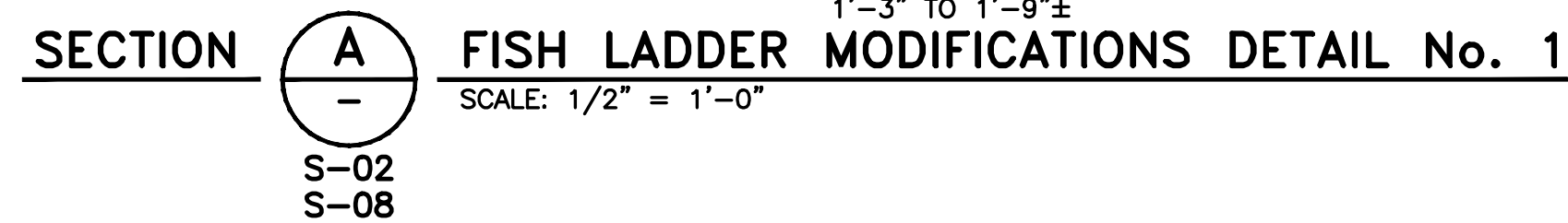
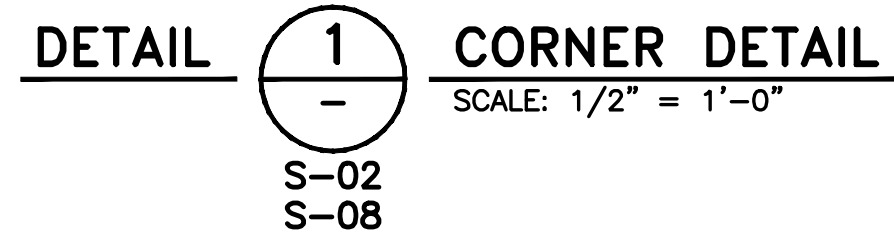
PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
SOUTH SLOPED SIDEWALL SUPPORT WALL DETAILS

SCALE
AS SHOWN
VERIFY SCALES

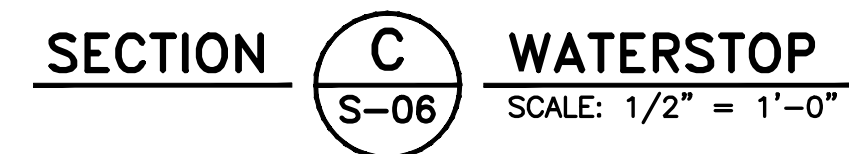
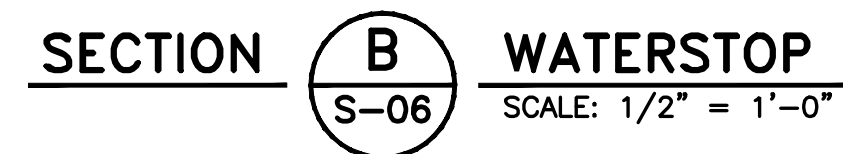
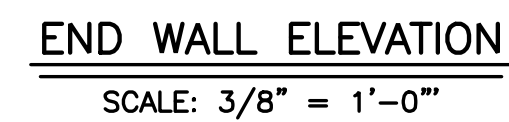
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER
91864009
SHEET CODE:
S-07
SHEET NUMBER:
49



NOTE:

1. EXTEND 30 LBS BUILDING PAPER
TO BOTTOM OF EXISTING FISH LADDER
INVERT SLAB

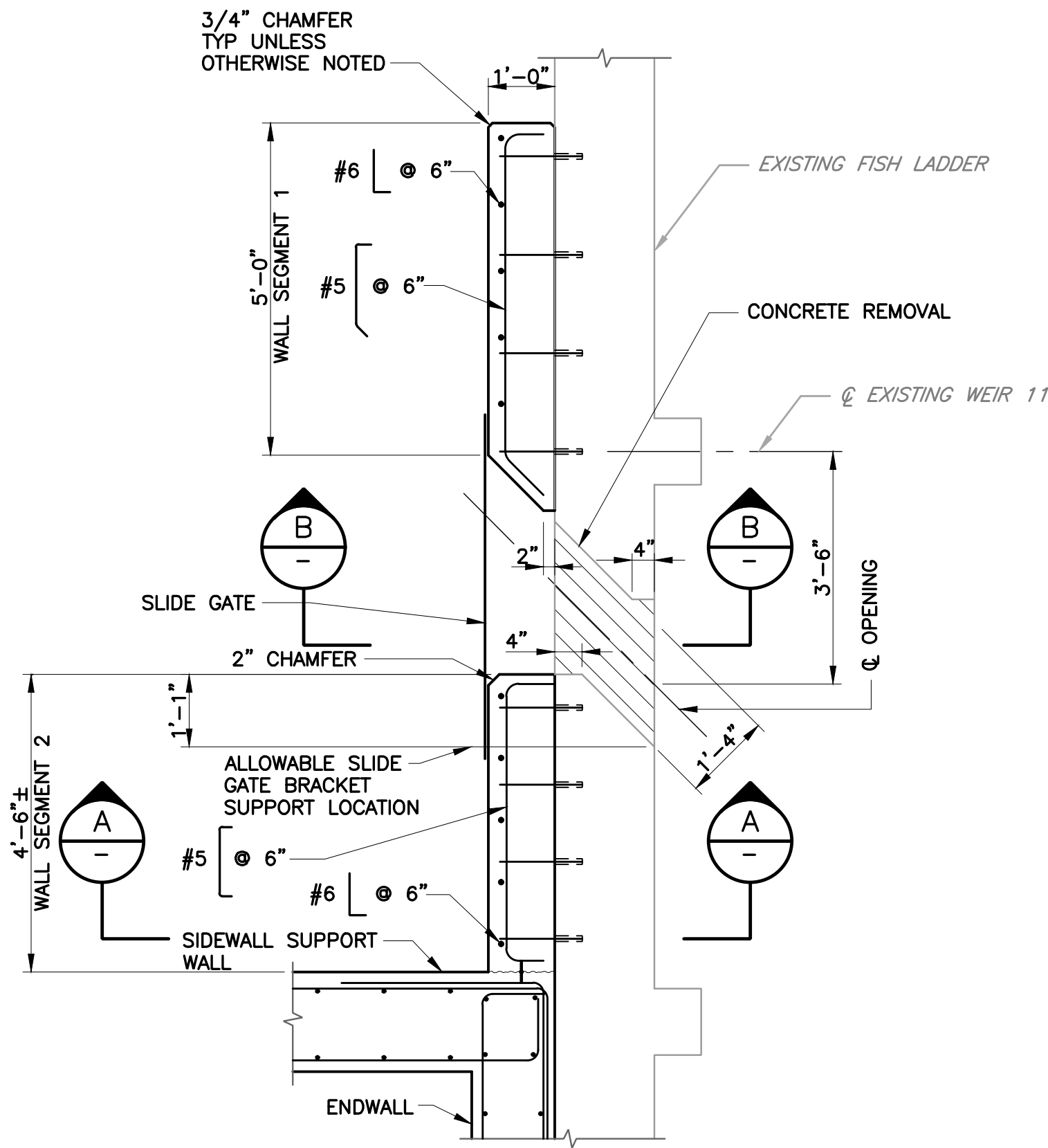


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AS SHOWN	91864009
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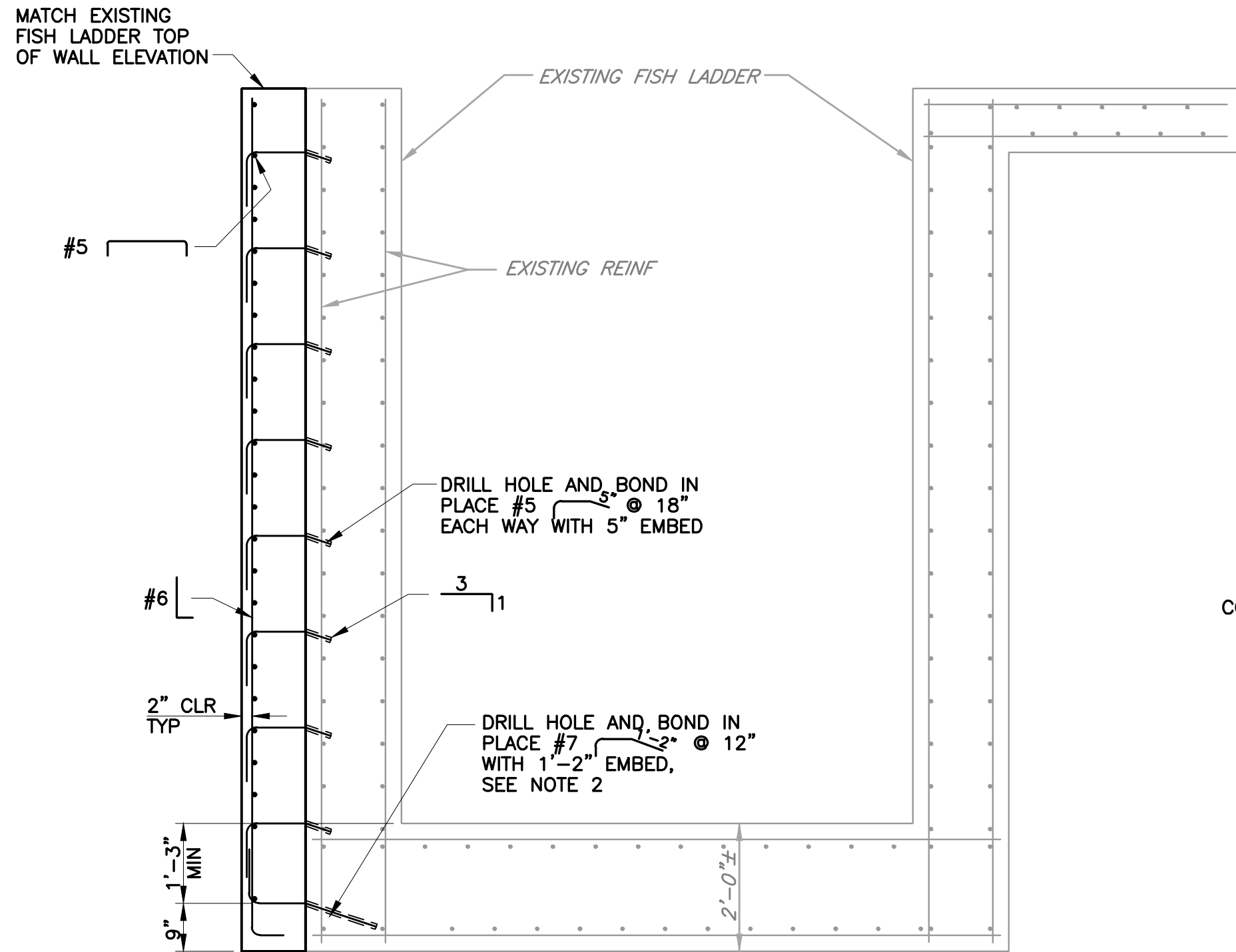
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DOCUMENT NUMBER: COO-S-9248-75893

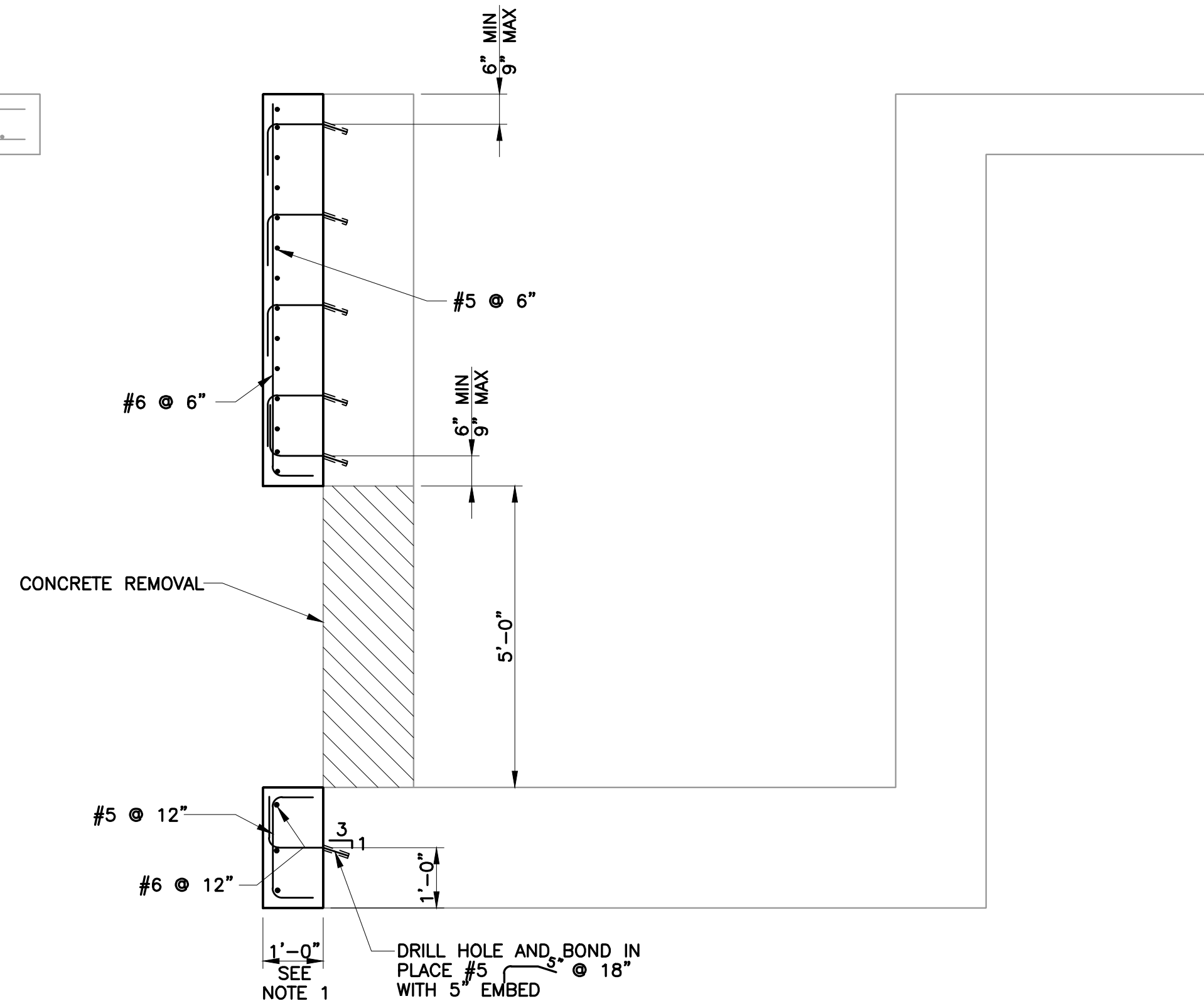
NOTES:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL



DETAIL 1 FISH LADDER MODIFICATION
S-02 SCALE: 1/2" = 1'-0"



SECTION A FISH LADDER MODIFICATION
SCALE: 1/2" = 1'-0"



SECTION B FISH LADDER MODIFICATION
SCALE: 1/2" = 1'-0"

- NOTES:
- PRIOR TO PLACING CONCRETE, NOTIFY THE ENGINEER IF BASE IS NOT WIDE ENOUGH TO ACCOMMODATE THE SLIDE GATE BOTTOM DETAIL.
 - WALL SEGMENT 1 MUST HAVE AT LEAST 5-#7 DOWELS AND WALL SEGMENT 2 MUST HAVE AT LEAST 4-#7 DOWELS.

LEGEND:
INDICATES WALL REMOVAL (PORTION)

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

BCR

865 The Alameda
San Jose, California 95126
408-296-5515

DATE 12/02/22
DESIGN N. VASQUEZ
DRAWN S. HICKEY
CHECKED D. DEVLIN

ENGINEERING CERTIFICATION
No. 2639
Exp. 12/31/24
12/2/2022

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT ENGINEER DATE

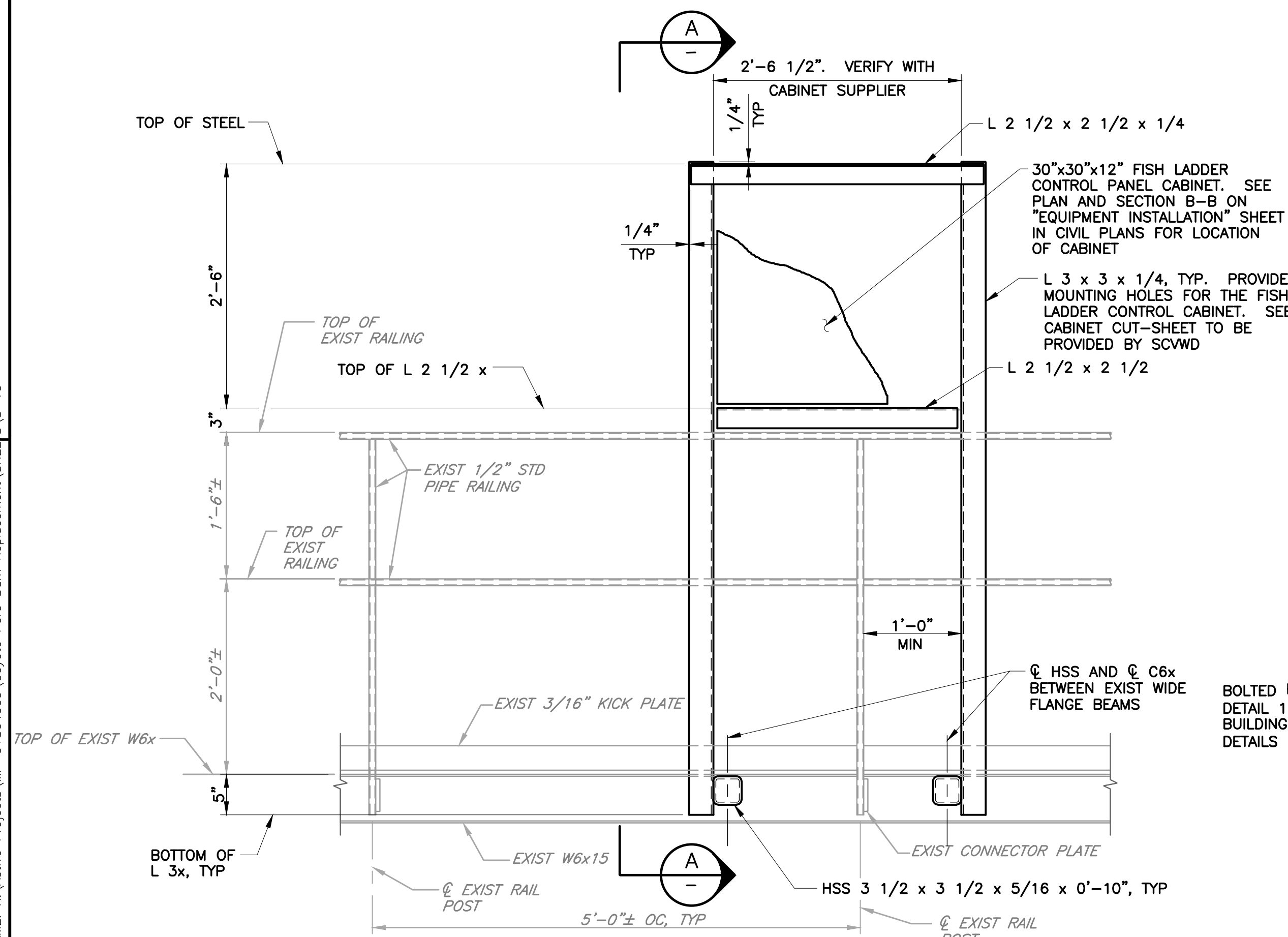
PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
FISH LADDER WALL OPENING

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

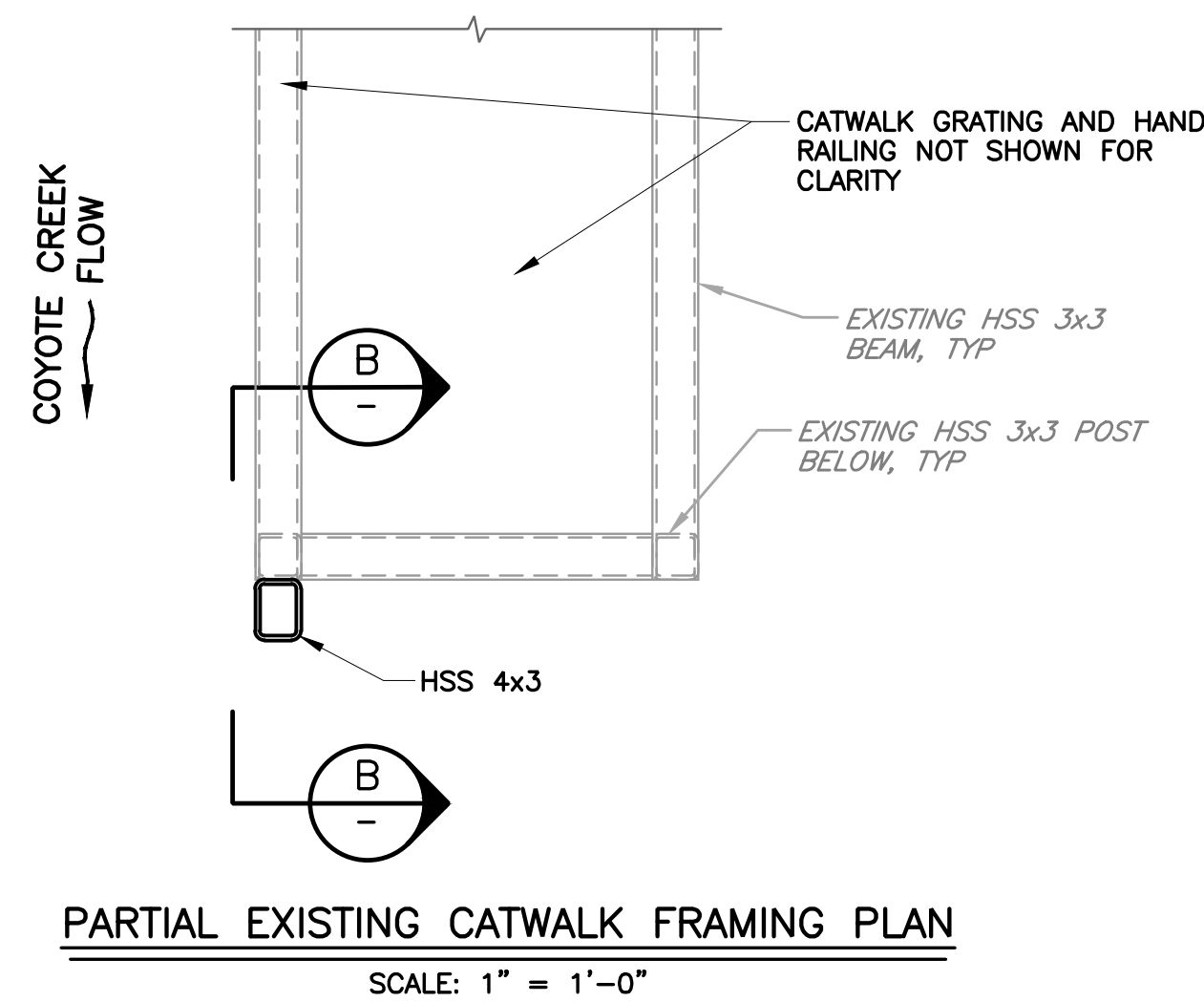
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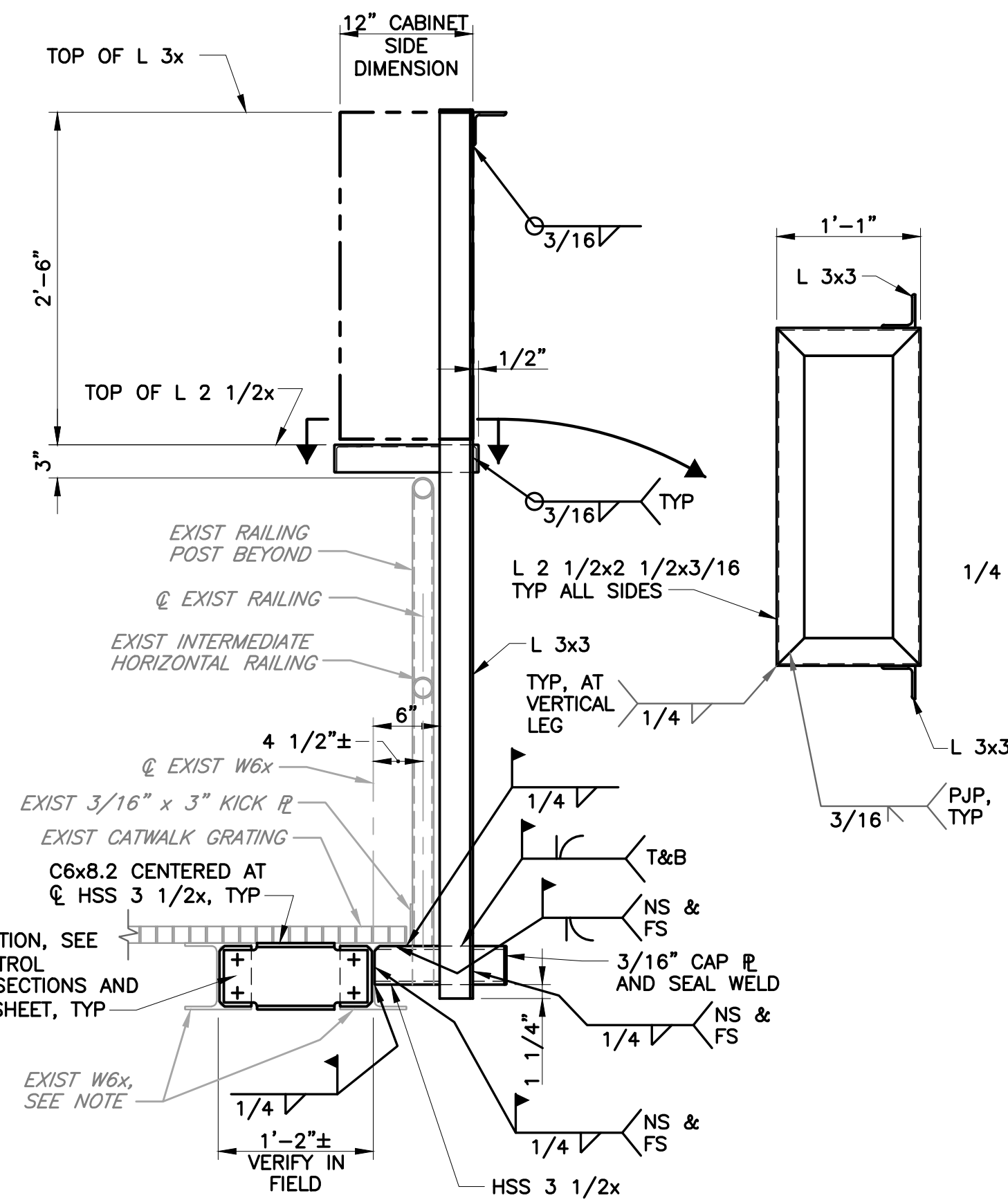
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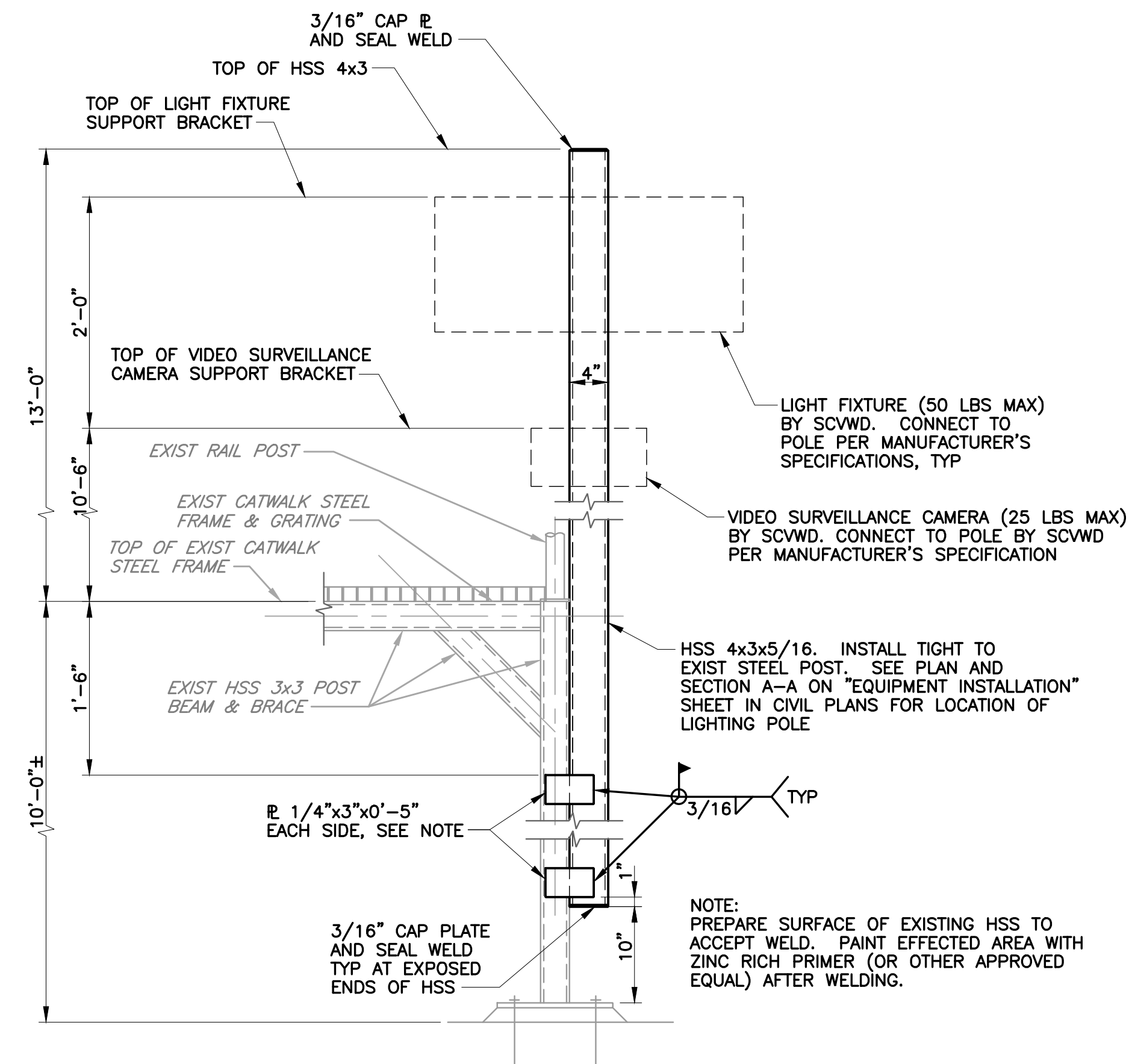
DETAIL 1 FISH LADDER CONTROL PANEL SUPPORT FRAME ELEVATION
SCALE: 1" = 1'-0"



PARTIAL EXISTING CATWALK FRAMING PLAN
SCALE: 1" = 1'-0"



SECTION A FISH LADDER CONTROL PANEL SUPPORT FRAME
SCALE: 1" = 1'-0"



SECTION B LIGHTING POLE ELEVATION
SCALE: 1" = 1'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

BCR

865 The Alameda
San Jose, California 95126
408-296-5515

DATE 12/02/22
DESIGN J. VISAYA
DRAWN S. HICKEY
CHECKED D. DEVLIN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA
12/2/2022

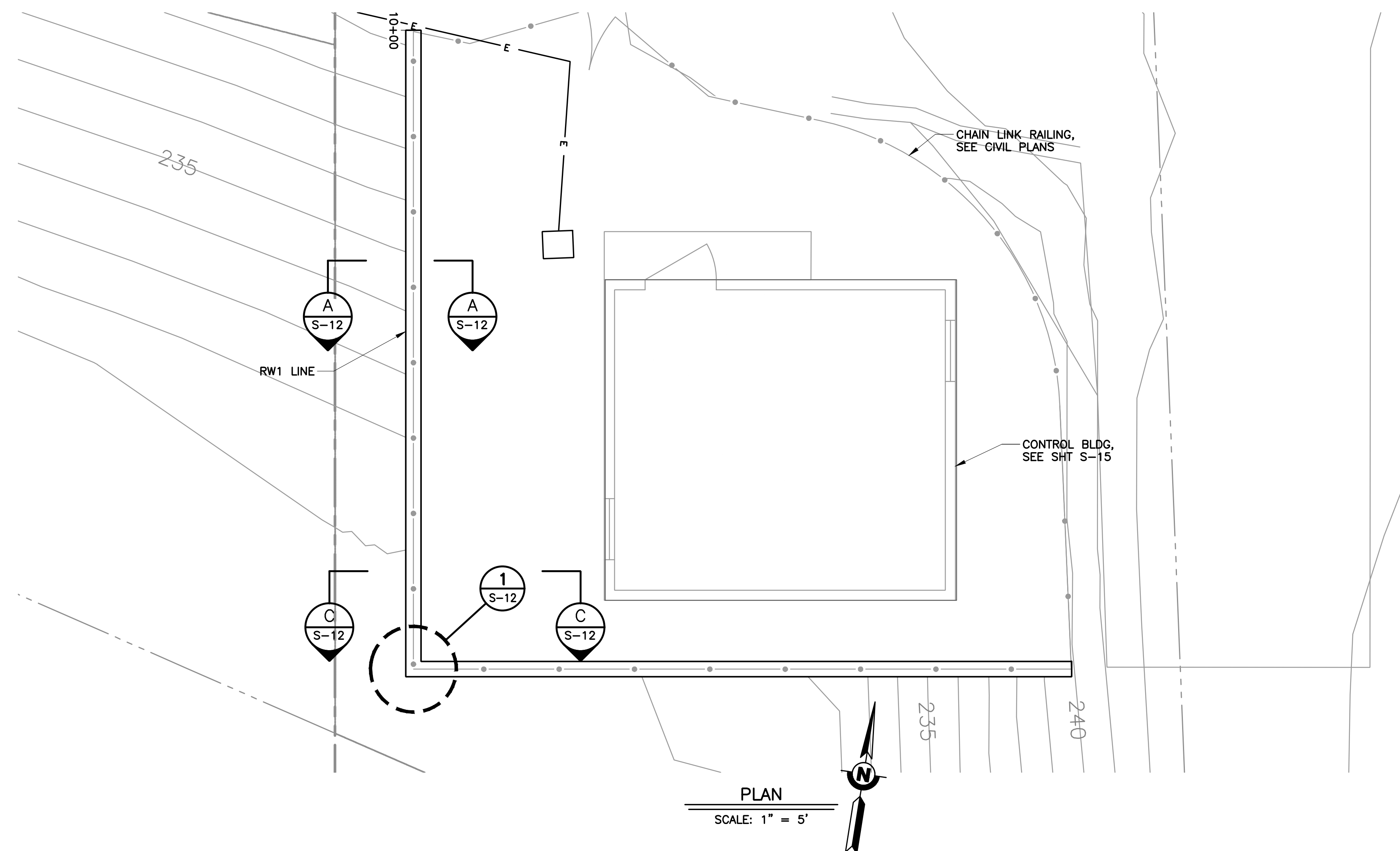
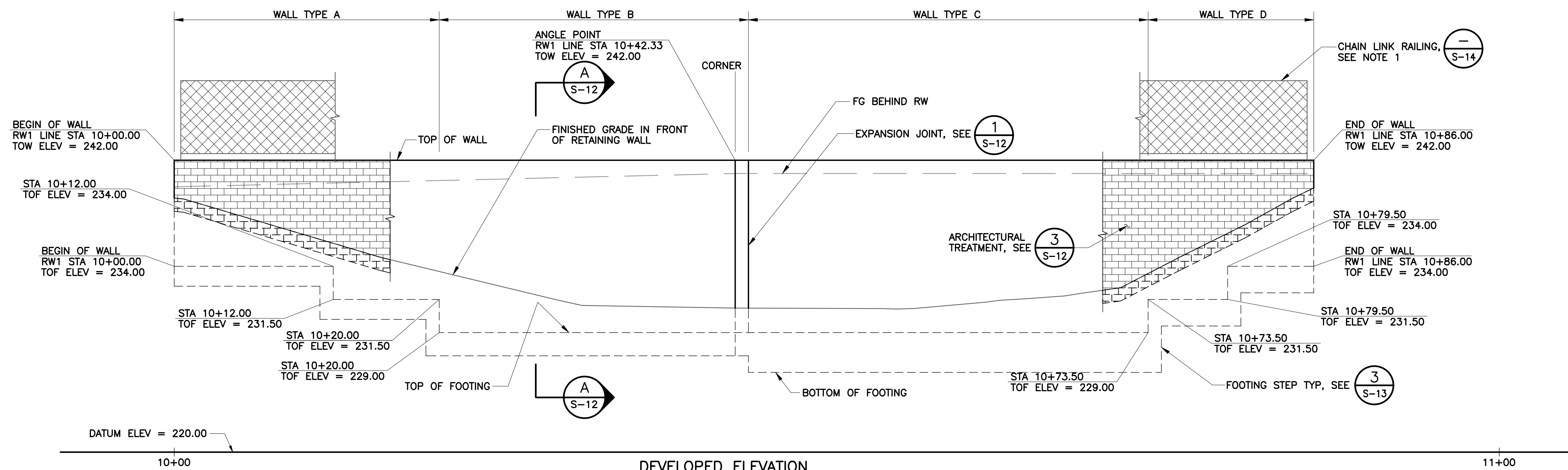
SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
MISCELLANEOUS EQUIPMENT SUPPORT DETAILS

SCALE AS SHOWN 0 1" VERIFICATION SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91864009 SHEET CODE: S-10 SHEET NUMBER: 52
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REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES	BIGGS CARDOSA ASSOCIATES INC STRUCTURAL ENGINEERS  865 The Alameda San Jose, California 95126 408-296-5515	DATE 12/02/22 DESIGN S. RECHENMACHER DRAWN A. ROSALES CHECKED D. DEVLIN	ENGINEERING CERTIFICATION  12/2/2022 PROJECT ENGINEER DATE	SANTA CLARA VALLEY WATER DISTRICT  PROJECT ENGINEER DATE	PROJECT NAME AND SHEET DESCRIPTION: COYOTE PERCOLATION DAM REPLACEMENT CONTROL BUILDING RETAINING WALL GENERAL PLAN	SCALE AS SHOWN VERIFY SCALES  BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91864009 SHEET CODE: S-11 SHEET NUMBER: 53
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USERNAME: OsoReyn Thu 12 Jan 2023 04:53pm
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DOCUMENT NUMBER: COO-S-9248-75896

4

3

2

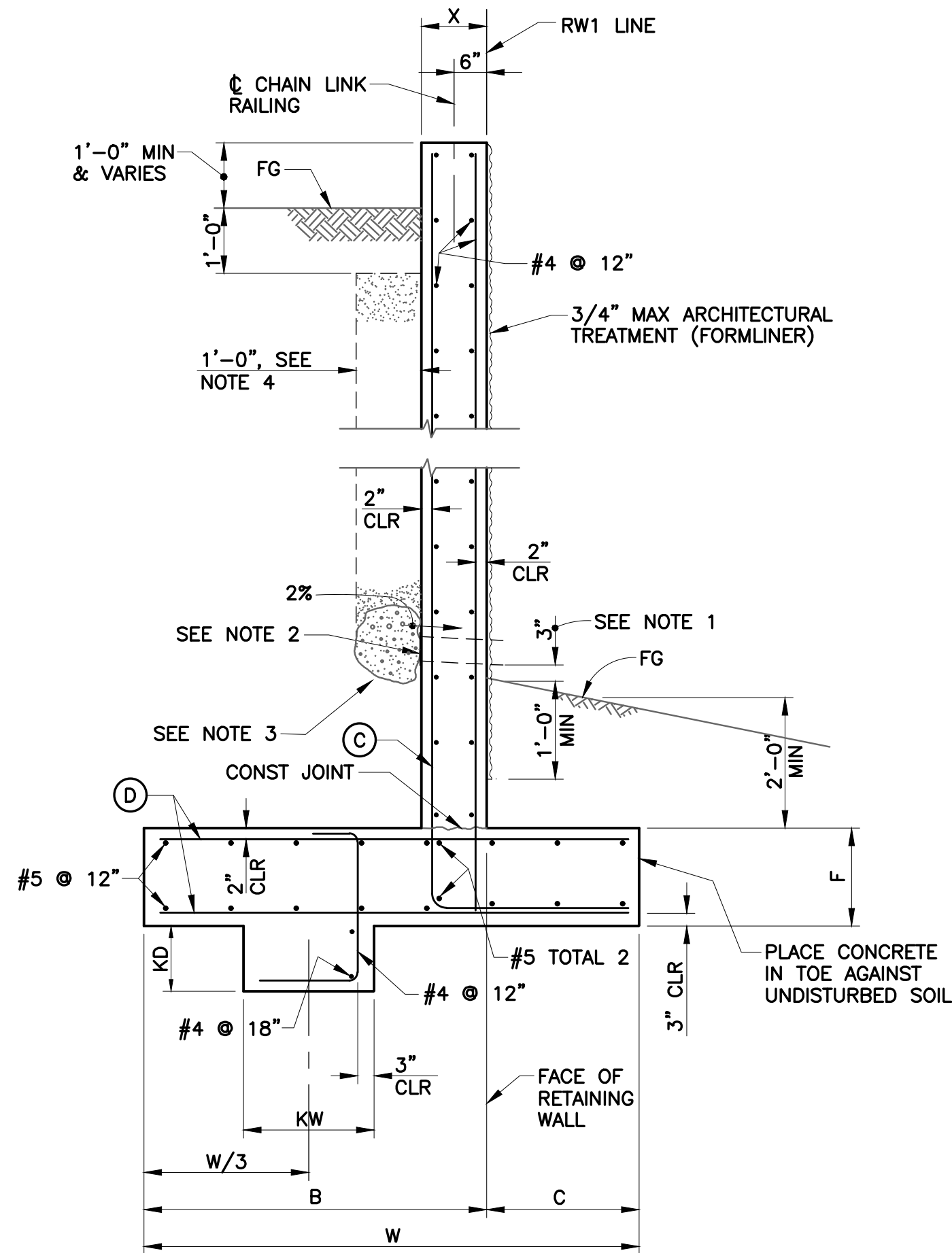
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4

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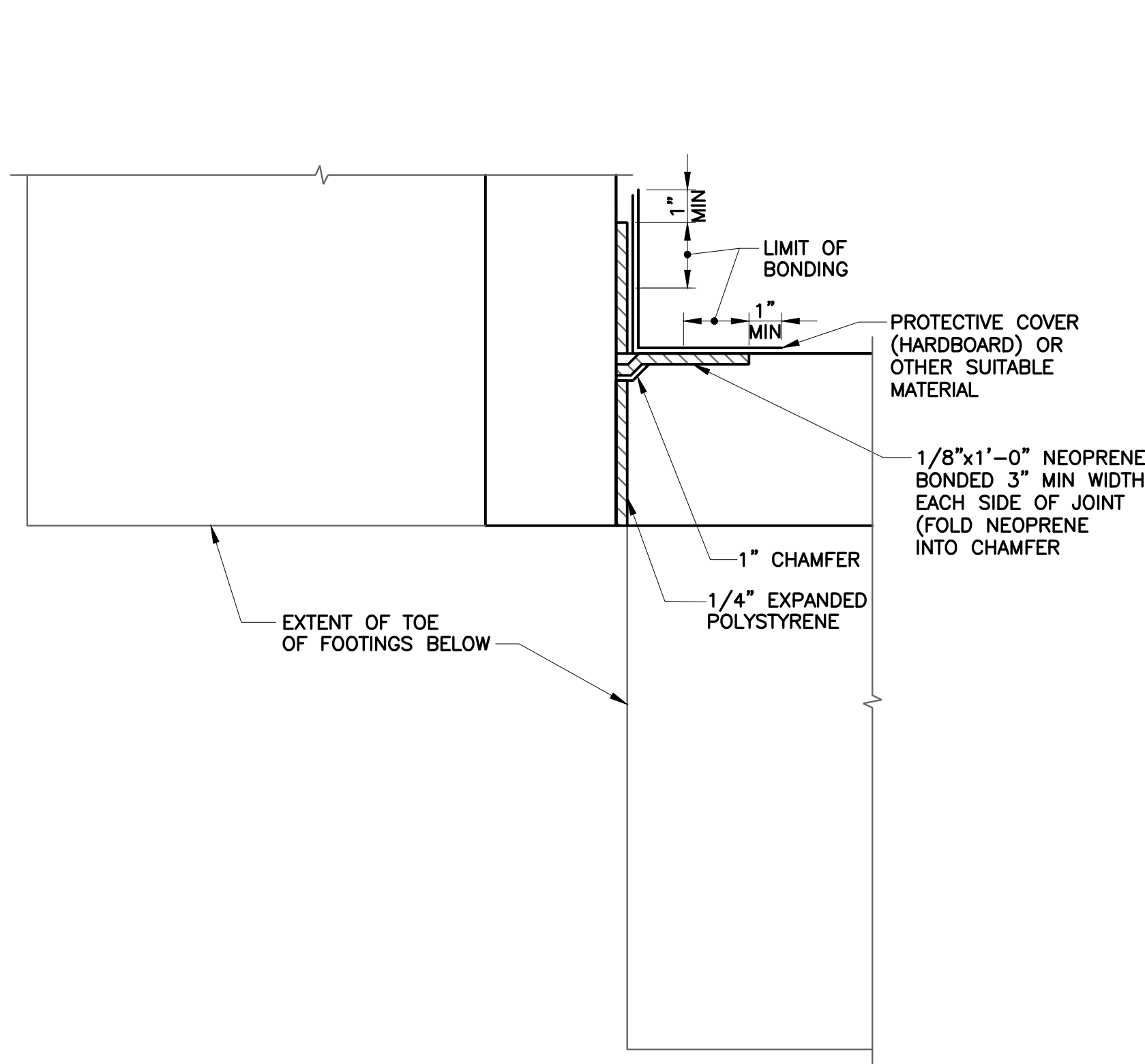
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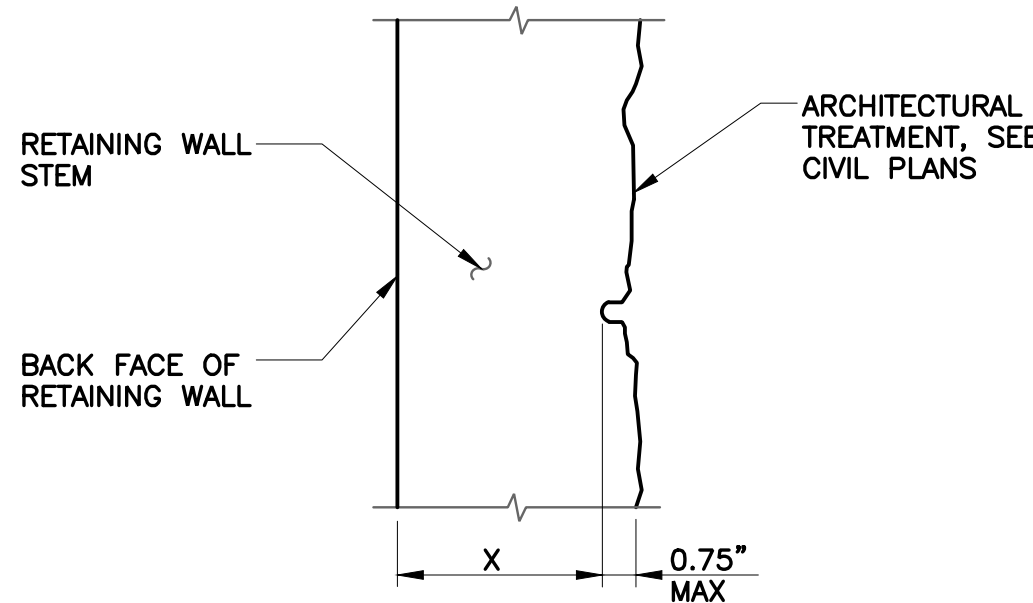


RETAINING WALL SCHEDULE				
WALL TYPE	A	B	C	D
W	7'-7"	10'-0"	12'-0"	9'-6"
B	5'-3"	6'-6"	8'-0"	6'-6"
C	2'-4"	3'-6"	4'-0"	3'-0"
F	1'-6"	1'-9"	2'-6"	2'-0"
X	1'-0"	1'-0"	1'-2"	1'-2"
KD	1'-0"	1'-3"	2'-0"	1'-8"
KW	2'-0"	2'-0"	2'-0"	2'-0"
Ⓒ	#6 @ 9"	#6 @ 6"	#6 @ 6"	#6 @ 6"
Ⓓ	#6 @ 9"	#6 @ 6"	#6 @ 6"	#6 @ 6"

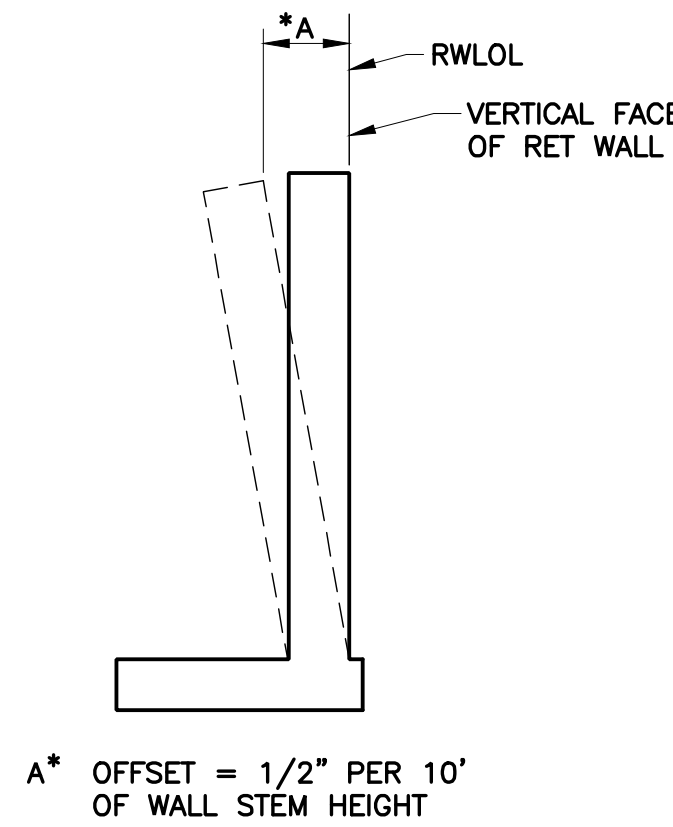
SECTION **A** RETAINING WALL
S-11 1/2" = 1'-0"



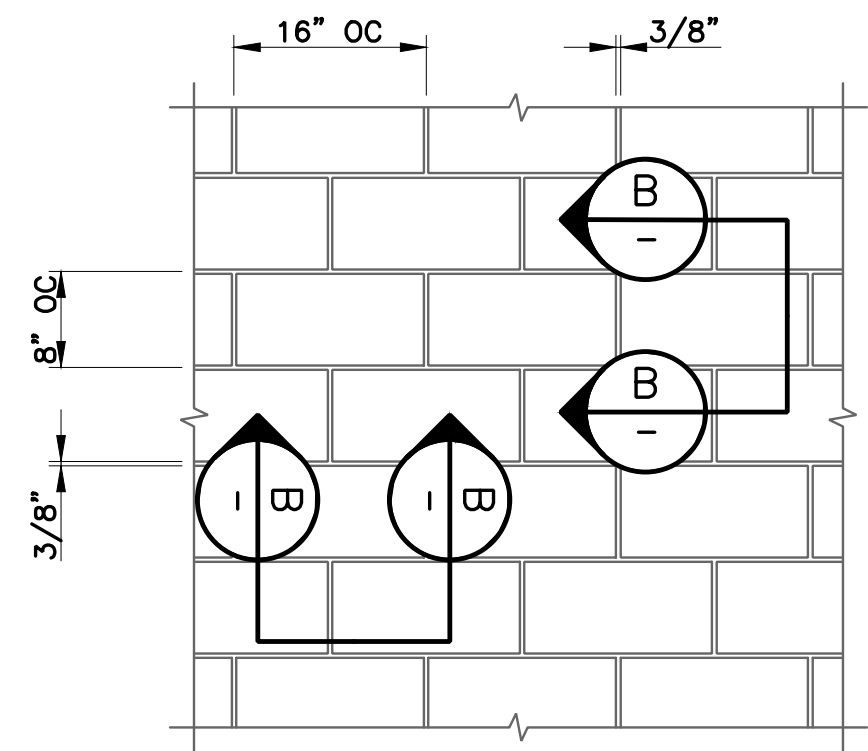
DETAIL **1** CORNER DETAIL
S-11 NO SCALE



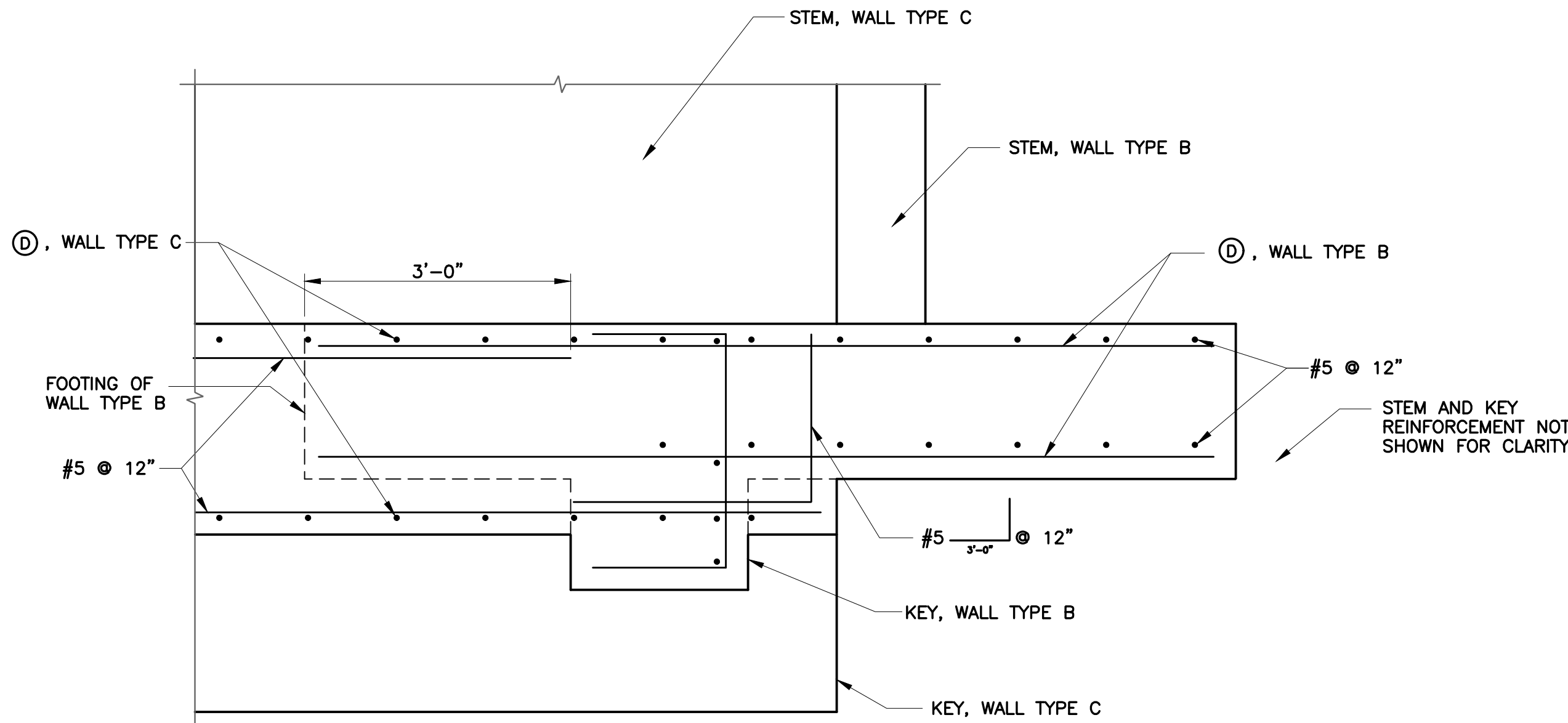
SECTION **B** ARCHITECTURAL TREATMENT
- NO SCALE



DETAIL **2** WALL OFFSET
S-11 NO SCALE



DETAIL **3** ARCHITECTURAL TREATMENT
S-11 NO SCALE



SECTION **C** FOOTING CORNER
S-11 3/4" = 1'-0"

- NOTES:
- 4" Dia DRAINS AT INTERMEDIATE SAG POINTS AND 25'-0" MAXIMUM CENTER TO CENTER. WALL DRAINS SHALL BE LOCATED 3'+/- ABOVE FINISHED GRADE.
 - 6" SQUARE ALUMINUM OR GALVANIZED STEEL WIRE 1/4" MESH HARDWARE CLOTH, MINIMUM WIRE DIAMETER 0.025". ANCHOR FIRMLY TO BACKFACE.
 - ONE CUBIC FOOT PERVIOUS BACKFILL MATERIAL IN A NONWOVEN FILTER FABRIC, SECURELY TIED.
 - PERVIOUS BACKFILL MATERIAL CONTINUOUS BEHIND RETAINING WALL.

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

BCR

865 The Alameda
San Jose, California 95126
408-296-5515

DATE 12/02/22
DESIGN S. RECHENWACHER
DRAWN A. ROSALES
CHECKED D. DEVLIN

ENGINEERING CERTIFICATION

Michael J. Rosales

REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA
12/2/2022

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT



PROJECT ENGINEER DATE

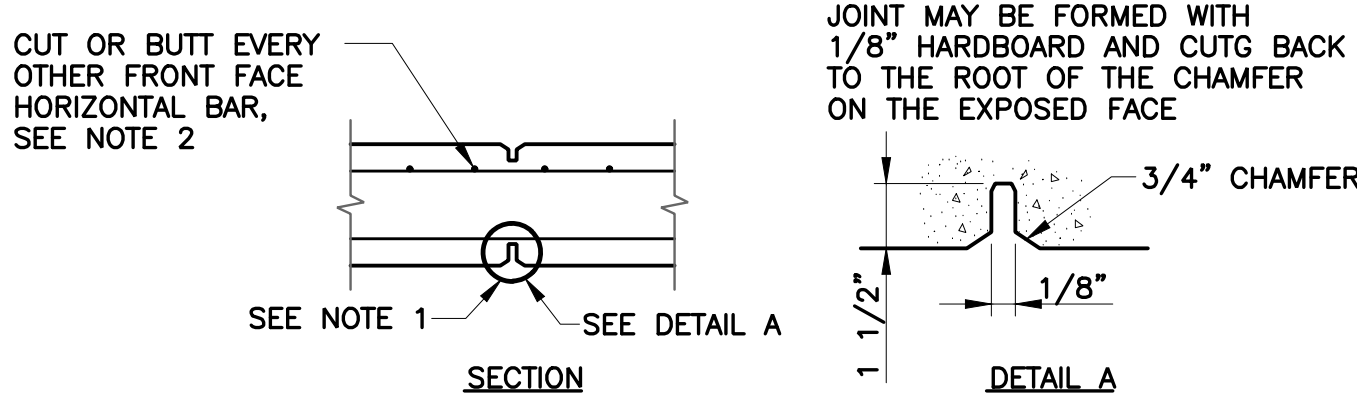
PROJECT NAME AND SHEET DESCRIPTION:

COYOTE PERCOLATION DAM REPLACEMENT

CONTROL BUILDING RETAINING WALL DETAILS

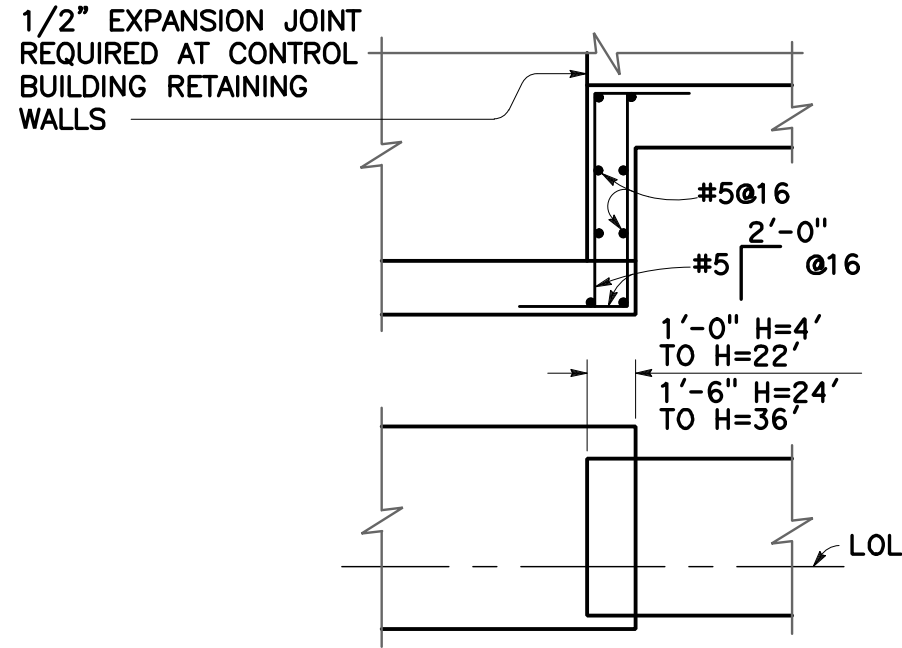
SCALE AS SHOWN	PROJECT NUMBER 91864009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-12 SHEET NUMBER: 54

4
2
1
DOCUMENT NUMBER: COO-S-9248-75897
CJ
USERNAME: OscarReyn Thu 12 Jan 2023 04:53pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEET\S-13

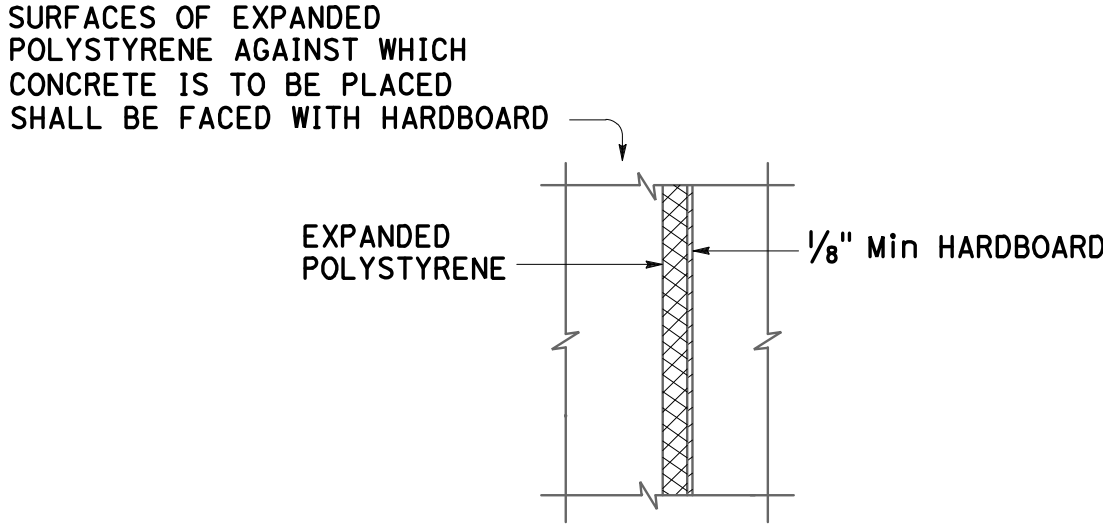


DETAIL 1 WEAKENED PLANES
SCALE: NO SCALE
S-02
S-08

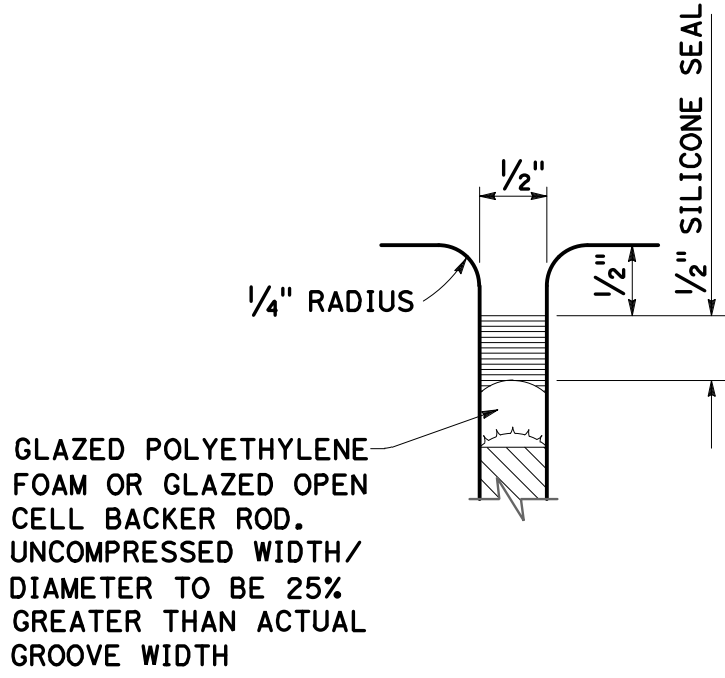
- NOTES:
1. BACK FACE JOINT ONLY REQUIRED AT RETAINING WALLS, NOT REQUIRED AT BOTTOM OF DAM FOUNDATION SLAB.
2. FRONT FACE OF RETAINING WALL OR TOP OF DAM FOUNDATION SLAB.



DETAIL 3 FOOTING STEPS
SCALE: NO SCALE
S-11

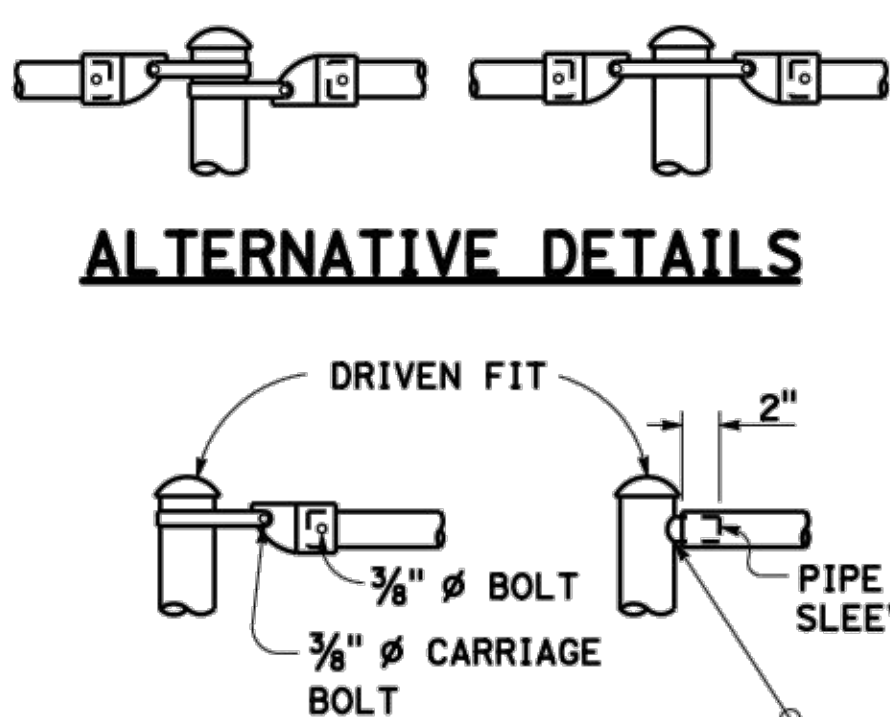
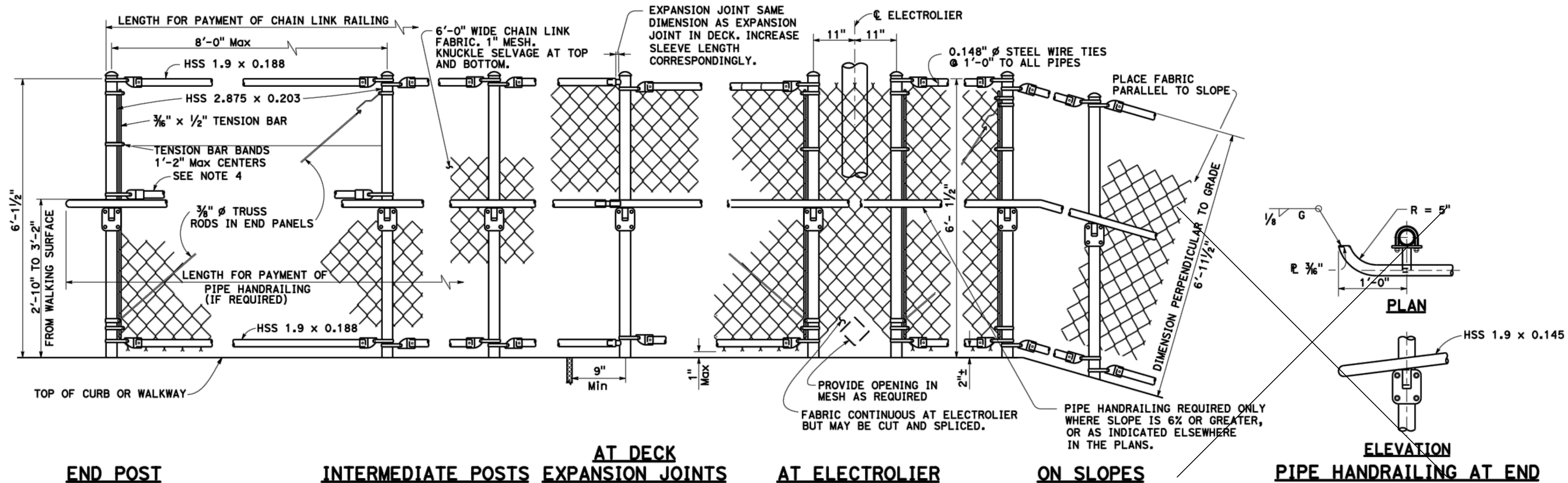


DETAIL 2 EXPANSION JOINT
SCALE: NO SCALE
S-18



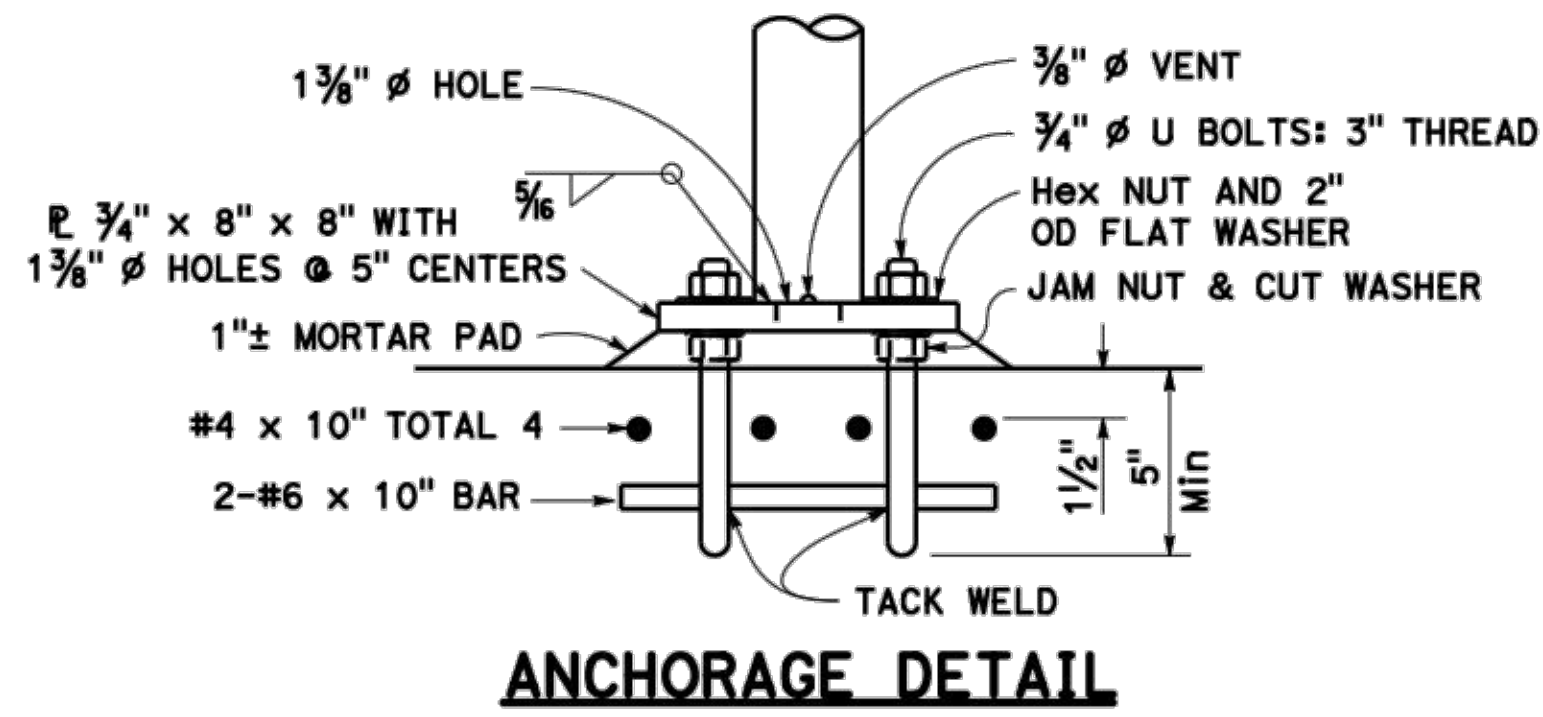
DETAIL 4 TYPE AL JOINT
SCALE: NO SCALE
-

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES	BIGGS CARDOSA ASSOCIATES INC STRUCTURAL ENGINEERS BCR 865 The Alameda San Jose, California 95126 408-296-5515	DATE 12/02/22 DESIGN N. VASQUEZ DRAWN S. HICKEY CHECKED D. DEVLIN	ENGINEERING CERTIFICATION No. 2639 Exp. 12/31/24 12/2/2022 PROJECT ENGINEER DATE	SANTA CLARA VALLEY WATER DISTRICT Valley Water PROJECT ENGINEER DATE	PROJECT NAME AND SHEET DESCRIPTION: COYOTE PERCOLATION DAM REPLACEMENT DAM AND RETAINING WALL MISCELLANEOUS DETAILS	SCALE AS SHOWN VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91864009 SHEET CODE: S-13 SHEET NUMBER: 55
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TYPICAL CONNECTION DETAILS

- NOTES:**
1. Peen all bolt threads.
 2. Railing shall conform to horizontal and vertical alignment. Posts shall be vertical. Top and bottom pipes shall be bent if radius is 148'-0" or less; may be on 8'-0" chords if radius is over 148'-0".
 3. When railing is on slope, 6'-0" chain link fabric shall be placed parallel to slope.
 4. Additional HSS 1.9 x 0.188 required when radius is less than 150'-0".



ALTERNATIVE ANCHORAGE DETAIL

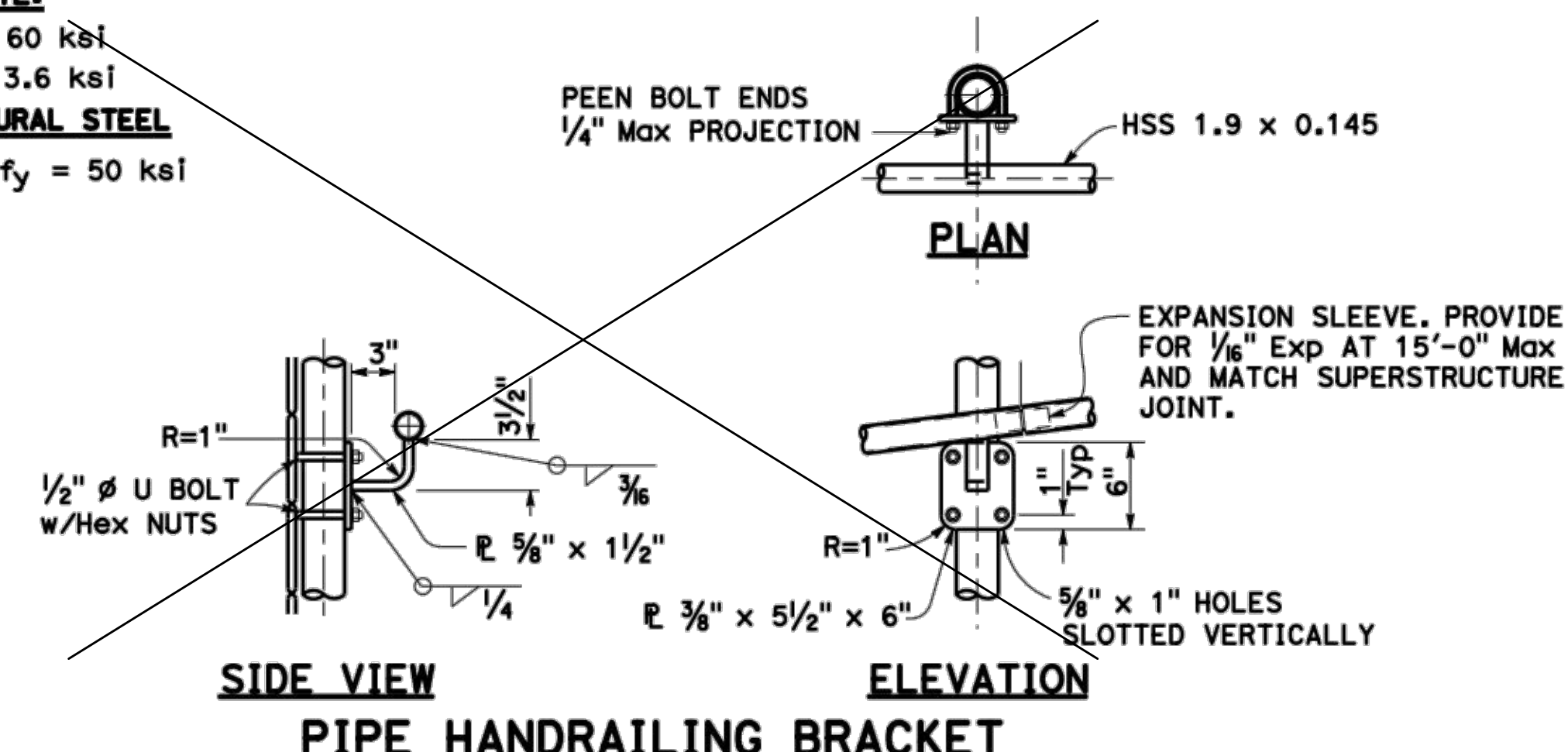
May be used when thickness of concrete is 1'-0" or more.

DESIGN NOTES

DESIGN:
AASHTO LRFD Bridge Design Specifications 8th Edition 2017
with California Amendments April 2019

CONCRETE:
 $f_y = 60 \text{ ksi}$
 $f'_c = 3.6 \text{ ksi}$

STRUCTURAL STEEL:
HSS: $f_y = 50 \text{ ksi}$



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CHAIN LINK RAILING
NO SCALE

RSP B11-7 DATED OCTOBER 16, 2020 SUPERSEDES STANDARD PLAN B11-7
DATED MAY 31, 2018 - PAGE 358 OF THE STANDARD PLANS BOOK DATED 2018.

REVISED STANDARD PLAN RSP B11-7

USER: Oscar Reyna, Thu 12 Jan 2023 04:53pm, FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\Sheet\S-14

DOCUMENT NUMBER: COO-S-9248-75898

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES	BIGGS CARDOSA ASSOCIATES INC STRUCTURAL ENGINEERS	DATE 12/02/22 DESIGN N. VASQUEZ DRAWN S. HICKEY CHECKED D. DEVLIN	ENGINEERING CERTIFICATION No. 2639 Exp. 12/31/24 12/2/2022	SANTA CLARA VALLEY WATER DISTRICT Valley Water	PROJECT NAME AND SHEET DESCRIPTION: COYOTE PERCOLATION DAM REPLACEMENT CALTRANS STANDARD PLANS - CHAIN LINK RAILING	SCALE AS SHOWN VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91864009 SHEET CODE: S-14 SHEET NUMBER: 56
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USERNAME: OcasReyn Thu 12 Jan 2023 04:53pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\Sheet\S-15

DOCUMENT NUMBER: COO-S-9248-75899

GENERAL NOTES:

- PRIOR TO REQUESTING A FOUNDATION INSPECTION, THE SOILS ENGINEER OF RECORD SHALL PROVIDE A FIELD REPORT WHICH SHALL STATE THE FOLLOWING:
THE BUILDING PAD WAS PREPARED AND COMPACTED IN ACCORDANCE WITH THE SOILS REPORT RECOMMENDATIONS.
THE FOUNDATION EXCAVATION DEPTH AND BACKFILL MATERIALS, AND DRAINAGE, SUBSTANTIALLY CONFORMS WITH THE SOILS REPORT AND APPROVED PLANS.
- PRIOR TO FINAL INSPECTION FOR ANY BUILDING OR STRUCTURE, THE SOILS ENGINEER OF RECORD SHALL ISSUE A FINAL REPORT STATING THE COMPLETED PAD, FOUNDATION, FINISH GRADING, DRAINAGE AND ASSOCIATED SITE WORK SUBSTANTIALLY CONFORMS TO THE APPROVED PLANS, SPECIFICATIONS AND INVESTIGATION.
- GENERAL NOTES APPLY TO ALL DRAWINGS.
- DO NOT SCALE DRAWINGS. SCALE IS SHOWN FOR REFERENCE ONLY.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH THE CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS, AS WELL AS ANY OTHER APPLICABLE TRADES. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES AND DETAILS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER AND RESOLVED PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF TEMPORARY BRACING AND CONSTRUCTION SUPPORTS REQUIRED TO COMPLETE THE PROJECT. NO PORTION OF THE STRUCTURE SHOULD BE CONSIDERED TO BE SELF SUPPORTING UNTIL THE ENTIRE VERTICAL AND LATERAL LOAD RESISTING SYSTEM IS COMPLETE.
- THE CONTRACTOR MUST PROTECT AND SHORE ALL EXCAVATIONS WITH BRACING AND SHORING AS REQUIRED TO MAINTAIN SOIL STABILITY.
- CONSTRUCT THOSE FEATURES OF THE PROJECT, WHICH MAY NOT BE FULLY SHOWN IN A MANNER SIMILAR TO THAT USED FOR SIMILAR FEATURES.
- CENTERLINES OF FOUNDATION FOOTING COINCIDE WITH CENTERLINES OF WALLS, UON.
- THE CONTRACTOR MUST RECEIVE THE FINAL VERSION OF THE REVIEWED SUBMITTAL SHOP DRAWING FOR PROPOSED FOUNDATION CONSTRUCTION JOINT LOCATIONS INCLUDING DETAILS & PLACEMENT SEQUENCE FROM THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH WORK.
- NO CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS, WALLS, & SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- REINFORCING STEEL SPLICES WILL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE ENGINEER.
- VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

ABBREVIATIONS:

Ø	AT	LB(S)	POUND(S)
#	DIAMETER	LL	LIVE LOAD
#	NUMBER	LLBB	LONG LEGS BACK TO BACK
		LLH	LONG LEG HORIZONTAL
AB	ANCHOR BOLT	LLV	LONG LEG VERTICAL
ALT	ALTERNATE	LOC	LOCATION
APPROX	APPROXIMATE(LY)	LOL	LAYOUT LINE
ARCH.	ARCHITECT(URAL)	LONGIT	LONGITUDINAL
ATS	ANCHOR TIE SYSTEM	LS	LAG SCREW(S)
		LW	LIGHT WEIGHT
BF	BOUNDARY FASTENING OR BRACED FRAME	MAX	MAXIMUM
BLK	BLOCK	MB	MACHINE BOLT(S)
BLKG	BLOCKING	MECH	MECHANICAL
BLDG	BUILDING	MFR	MANUFACTURER
BM	BEAM	MIN	MINIMUM
BN	BOUNDARY NAILING	MISC	MISCELLANEOUS
BOF	BOTTOM OF FOOTING		
BOT	BOTTOM	(N)	NEW
		NIC	NOT IN CONTRACT
CL	CENTER LINE	No.	NUMBER
CBC	CALIFORNIA BLDG CODE	NOM	NOMINAL
CIDH	CAST IN DRILLED HOLE	NS	NEAR SIDE
CIP	CAST-IN-PLACE	NTS	NOT TO SCALE
CJP	CONSTRUCTION JOINT		
CLR	COMPLETE JT PENETRATION	OC	ON CENTER
CLG	CLEAR	OD	OUTSIDE DIAMETER
CMP	CEILING	OG	ORIGINAL GROUND
CMU	CORRUGATED METAL PIPE	OH	OPPOSITE HAND
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE	P	METAL PLATE
CONN	CONNECTION	PDF	POWDER DRIVEN FASTENER
CONST	CONSTRUCTION	PLY	PLYWOOD
CONT	CONTINUOUS	PJP	PARTIAL JOINT PENETRATION
COORD	COORDINATE	PQR	PROCEDURE QUALIFICATION REPORT
CSK	COUNTERSINK	PSF	POUNDS PER SQUARE FOOT
		PT	POINT OR POST TENSION
DBL	DOUBLE	PSI	POUNDS PER SQUARE INCH
DCH	DEMAND CRITICAL WELD	PTDF	PRESERVATIVE TREATED DOUGLAS FIR
DET	DETAIL	PV	PHOTO VOLTAGE
DF	DOUGLAS FIR	PVC	POLYVINYL CHLORIDE
DIAG	DIAGONAL		
DN	DOWN	RAD or R	RADIUS
DO	DITTO	RCP	REINF CONC PIPE
DWG	DRAWING	REINF	REINFORCED, REINFORCING
		REQ'D	REQUIRED
(E)	EXISTING	REV	REVISION
EA	EACH	RS	ROUGH SAWN
EF	EDGE FASTENING	RWD	REDWOOD
ELECT	ELECTRICAL		
ELEV	ELEVATION	S.A.D.	SEE ARCH. DRAWINGS
EN	EDGE NAILING	SCHED	SCHEDULE
EQ	EQUAL	SEC	SECTION
EW	EACH WAY	SFRS	SEISMIC FORCE RESISTING SYSTEM
		SHT	SHEET
FBC	FRAMED BEAM CONN	SHTG	SHEATHING
FIN	FINISH(ED)	SIM	SIMILAR
FG	FINISHED GRADE	SM	SHEETMETAL
FND	FOUNDATION	SMS	SHEET METAL SCREW
FOC	FACE OF CONCRETE	SPEC(S)	SPECIFICATION(S)
FOHC	FREE OF HEART CENTER	SQ	SQUARE
FOM	FACE OF MASONRY	STD	STANDARD
FOS	FACE OF STUD(S)	STL	STEEL
FS	FAR SIDE	STS	SELF TAPPING SCREW
FTG	FOOTING	SYM	SYMMETRICAL
Ga	GAUGE	T&B	TOP & BOTTOM
GALV	GALVANIZED	T&G	TONGUE AND GROOVE
GL	GLUED LAMINATED BEAM	TBR	TO BE REMOVED
		TEMP	TEMPORARY
HD	HOLDOWN	TN	TOE NAIL
HDPE	HIGH DENSITY POLYETHYLENE	T.O.	TOP OF
HDR	HEADER	TOF	TOP OF FOOTING
HEX	HEXAGONAL	T.O.P.	TOP OF PLATE
HGR	HANGER	TOS	TOP OF SLAB OR STEEL
HORIZ	HORIZONTAL	T.O.W.	TOP OF WALL
HS	HIGH STRENGTH	TYP	TYPICAL
HSB	HIGH STRENGTH BOLT		
HSS	HOLLOW STRUCT SECTION	UON	UNLESS OTHERWISE NOTED
H or HT	HEIGHT		
		VERT	VERTICAL
ID	INSIDE DIAMETER	VIF	VERIFY IN FIELD
INSP	INSPECTION/INSPECTOR		
INSUL	INSULATION	W/	WITH
		WF	WIDE FLANGE
JT	JOINT	WFRS	WIND FORCE RESISTING SYSTEM
		WP	WATERPROOF OR WORK POINT
		WPS	WELDING PROCEDURE SPECIFICATIONS
		WT	WEIGHT
		WWR	WELDED WIRE REINFORCEMENT

LEGEND:

	INDICATES TOP OF STEEL ELEVATION.
	INDICATES TOP OF WALL ELEVATION.
	INDICATES TOP OF FOOTING ELEVATION.
	INDICATES DIRECTION OF SLOPE.
	INDICATES CHANGE IN SLAB ELEVATION.

DESIGN DATA:

1. PLANS AND CALCULATIONS FOR THE STRUCTURAL DESIGN WERE BASED UPON:			
- THE 2019 CALIFORNIA BUILDING CODE.			
- SOILS REPORT BY CAL ENGINEERING AND GEOLOGY, DATED DECEMBER 2022.			
2. DESIGN LOADS ARE AS FOLLOWS:			
VERTICAL			
ROOF DEAD LOAD	20	PSF	
ROOF CONST DEAD LOAD	20	PSF	
ROOF LIVE LOAD	20	PSF	AND REDUCED PER CODE
LATERAL			
WIND	PER ASCE 7-16	95 MPH BASIC WIND SPEED (3 SECOND GUST)	
		WIND IMPORTANCE FACTOR, I = 1.0	
		RISK CATEGORY II	
		EXPOSURE CATEGORY B	
		INTERNAL PRESSURE COEFFICIENT, GCp = ±0.18	
		DESIGN WIND PRESSURE ON GABLE ROOF p = 15	PSF
SEISMIC			
	PER ASCE 7-16	RISK CATEGORY II	
		SEISMIC IMPORTANCE FACTOR, I = 1.0	
		SITE CLASS D	
		Ss = 1.803 S1 = 0.66	
		Sps = 1.202 Sps1 = 0.748	
		SEISMIC DESIGN CATEGORY D	
		R = 5 SRMSW Cs = 0.24	
		V = CsW = 0.24 W = 5500 LB	
		EQUIVALENT LATERAL FORCE PROCEDURE	
FOUNDATION			
BEARING PRESSURES	3000	PSF	DEAD LOAD
	4500	PSF	DEAD + LIVE LOAD
	6000	PSF	TOTAL LOADS
FRICITION COEFFICIENT	0.37		
EQUIVALENT ACTIVE PRESSURE	37	PCF	
EQUIVALENT PASSIVE PRESSURE	350	PCF	

MATERIAL DESIGN DATA:

CONCRETE:	f'c = 4,000 PSI MIN CONCRETE STRENGTH AT 28 DAYS
REINFORCEMENT:	fy = 60,000 PSI ASTM A706
MASONRY:	f'm = 2,000 PSI

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

865 The Alameda
San Jose, California 95126
408-296-5515

DATE	12/02/22
DESIGN	J. VISAYA
DRAWN	S. HICKEY
CHECKED	D. DEVLIN

ENGINEERING CERTIFICATION

12/2/2022
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

PROJECT ENGINEER DATE

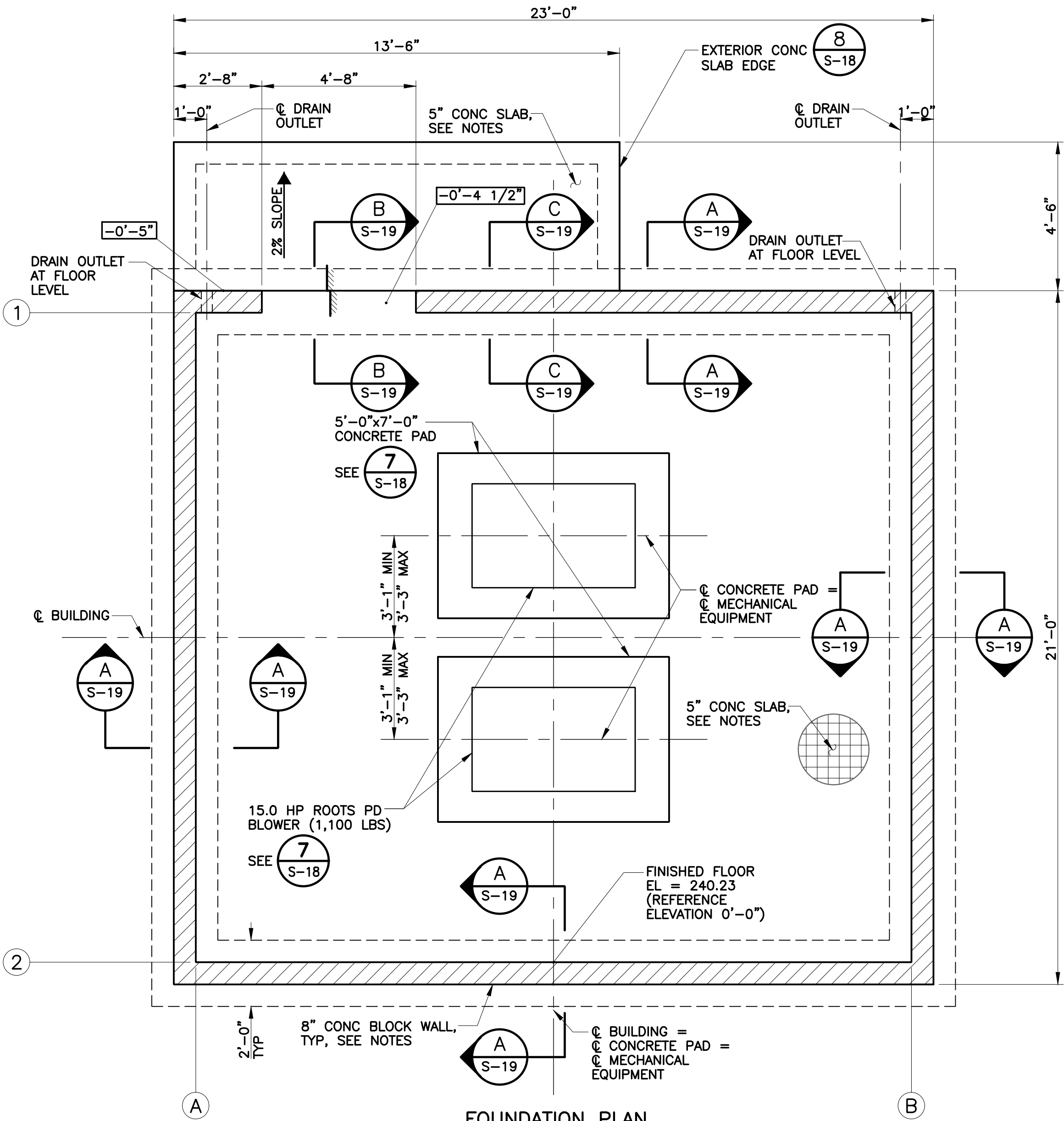
PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT

CONTROL BUILDING STRUCTURAL NOTES

SCALE AS SHOWN	PROJECT NUMBER 91864009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-15 SHEET NUMBER: 57

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DOCUMENT NUMBER: COO-S-9248-75900



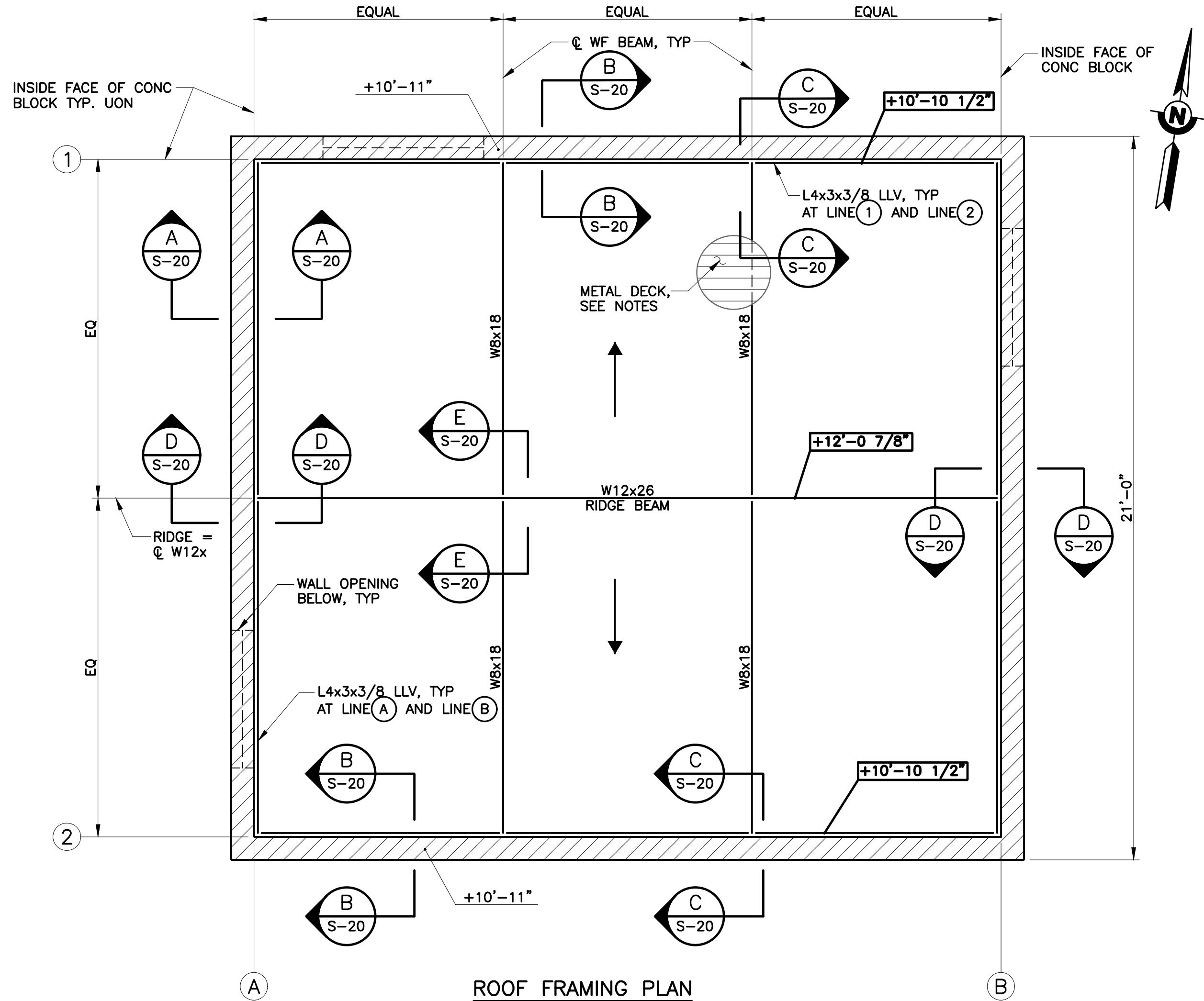
FOUNDATION PLAN
SCALE: 3/8" = 1'-0"

ROOF FRAMING NOTES:

- REFER TO CONTROL BUILDING GENERAL NOTES & SPECIFICATIONS.
- CONTRACTOR TO VERIFY ALL DIMENSIONS & ELEVATIONS SHOWN WITH CIVIL DWGS AND INFORM STRUCTURAL ENGINEER OF ANY DISCREPANCY.
- INDICATES TOP OF STEEL ELEVATION (BOTTOM OF METAL DECK)
- INDICATES TOP OF WALL ELEVATION.
- NO MECH EQUIP, DUCTWORK, PIPING, ETC SHALL BE HUNG FROM METAL DECKING UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

METAL DECK NOTES:

- METAL DECK SHALL BE "ASC" 1-1/2", 20 GAGE G60 GALVANIZED B-36 OR APPROVED EQUAL, CONTINUOUS OVER 3 SPANS MINIMUM.
- METAL DECK SHALL BE WELDED TO SUPPORTS AS FOLLOWS:
 - TRANSVERSE SUPPORTS AT PANEL ENDS AND LAPS - 7 PUDDLE WELDS PER 36" SHEET.
 - INTERMEDIATE TRANSVERSE SUPPORTS - 4 PUDDLE WELDS PER 36" SHEET.
 - PARALLEL SUPPORTS - PUDDLE WELDS @ 1'-0" OC.
 - SIDE SEAMS - BUTTON PUNCH, TRIPLE BUTTON PUNCH OR DELTAGRIP @ 2'-0" OC, MAX.
 - ALL PUDDLE WELDS TO HAVE 1/2" EFFECTIVE DIAMETER ELECTRODE: E7018.
- METAL DECK SHALL BEAR A MINIMUM OF 2" ON SUPPORTING MEMBERS.
- DECK FLUTES TO RUN PERPENDICULAR TO SUPPORTING MEMBERS, UNLESS SHOWN OTHERWISE.



ROOF FRAMING PLAN
SCALE: 3/8" = 1'-0"

FOUNDATION NOTES:

- SEE CONTROL BUILDING FOUNDATION PLAN FOR TOP OF SLAB ELEVATIONS.
- FOR DETAILED SOILS INFORMATION AND COMPLETE REQUIREMENTS, REFER TO SOILS REPORT BY CAL ENGINEERING AND TECHNOLOGY, DATED JANUARY 28, 2022.
- TYPICAL SLAB SECTION:
 - 5" THICK CONCRETE SLAB
 - #4 @ 16" OC EACH WAY AT 2" BELOW TOP OF SLAB. SUPPORT AT 36" MAX EA WAY.
 - 2" COMPACTED CRUSHER FINES (NOT SAND)
 - VAPOR RETARDER, 10 MIL MIN (OMIT AT EXTERIOR SLAB)
 - 4" OF 3/8" CRUSHED ROCK
 - ENGINEERED FILL COMPACTED TO 90% SEE SECTION 24 OF THE PROJECT SPECIFICATIONS FOR ENGINEERED FILL
- CONTROL JOINTS ARE TO BE INSTALLED @ 12' OC MAX OR AS SHOWN ON PLAN. CONTROL JOINTS SHALL BE MADE BY SAW CUTTING SLAB WITH THE SOFF-CUT SYSTEM OR APPROVED EQUAL AS SOON AS THE SURFACE IS FIRM ENOUGH SO THAT IT WILL NOT BE DAMAGED BY THE BLADE. USUALLY WITHIN 2 TO 4 HOURS AFTER FINAL FINISHING (NO LATER THAN 8 HOURS AFTER PLACEMENT). SAW CUT DEPTH SHALL BE 1/4 OF THE SLAB DEPTH (1-1/2" MAX). CONSTRUCTION JOINTS MAY BE INSTALLED AT THE CONTRACTOR'S OPTION. SEE "TYPICAL SLAB JOINTS" DETAIL FOR CONSTRUCTION JOINT & CONTROL JOINT.
- FOR FOOTING CONSTRUCTION JOINT, SEE "FOOTING CONSTRUCTION JOINT" DETAIL.
- THE SIZE & LOCATION OF ALL FOOTING AND SLAB PENETRATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION
- SEE "FOOTING AND WALL INTERSECTION" DETAIL FOR TYPICAL WALL & FOOTING INTERSECTION.
- FOR TYPICAL HOOKS, BENDS & LAP OF REINFORCING, SEE "TYPICAL BAR HOOKS & BEND" AND "LAP SPLICE SCHEDULE" DETAILS.
- FOR DETAILS OF PIPES THROUGH FOOTINGS, SEE "TYPICAL FOOTING PENETRATIONS" DETAIL.
- CONCRETE CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT OF ALL EMBEDDED ITEMS.
- ANCHOR BOLTS AND BASEPLATES SHALL NOT BE WET SET.
- INDICATES FOOTING.
- FOR CONTROL BUILDING WALL ELEVATIONS, SEE "CONCRETE BLOCK WALL ELEVATIONS" SHEET.

REINFORCED STRUCTURAL MASONRY NOTES:

- CONCRETE BLOCK WALL
 - 8" NOMINAL SPLIT FACE CMU
 - #5 @ 16" OC HORIZONTAL REINFORCEMENT
 - #6 @ 16" OC VERTICAL REINFORCEMENT
- ALL CELLS IN CONCRETE BLOCK CONSTRUCTION SHALL BE FULLY GROUTED.
- ALL VERTICAL STEEL IN WALLS SHALL BE LAPPED WITH DOWELS OF THE SAME SIZE AND SPACING INTO THE FOOTING UNLESS NOTED OTHERWISE. DOWELS SHALL BE DETAILED SIMILAR TO TYPICAL WALL DOWELS.
- ALL BOLTS EMBEDDED IN CONCRETE BLOCK SHALL HAVE A MINIMUM OF 1" OF GROUT BETWEEN THE BOLT AND THE CONCRETE BLOCK ON ALL SIDES. BOLTS SHALL HAVE A 5" MINIMUM EMBEDMENT UNLESS NOTED OTHERWISE ON THE DRAWINGS. SEE "BOLT IN CMU WALL" DETAIL FOR TYPICAL BOLT IN CMU WALL.
- TYPICAL VERTICAL WALL REINFORCEMENT SHALL BE INSTALLED EACH SIDE OF ALL WALL OPENINGS AND SHALL EXTEND THE FULL HEIGHT OF THE WALL UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- TYPICAL HORIZONTAL WALL REINFORCEMENT SHALL BE INSTALLED ABOVE AND BELOW ALL OPENINGS UNLESS NOTED OTHERWISE ON THE DRAWINGS. REINFORCEMENT SHALL EXTEND PAST OPENINGS 30", MINIMUM. IF REINFORCEMENT CANNOT EXTEND A FULL 30" PAST THE OPENING, THEN THE REINFORCING IS TO EXTEND AS FAR AS POSSIBLE AND THE REST OF THE BAR IS TO BE BENT 90 DEGREES, EITHER UP OR DOWN.
- SPLICES OF REINFORCING STEEL IN CONCRETE BLOCK CONSTRUCTION SHALL BE CONTACT LAP SPLICES AS SHOWN ON THE DRAWINGS. ALL PROPOSED SPLICE LOCATIONS NOT SHOWN ON THE DRAWINGS SHALL BE REVIEWED BY THE ENGINEER. FOR TYPICAL LAP OF REINFORCING, SEE "LAP SPLICE SCHEDULE-MASONRY" DETAIL.
- CLEANOUTS MUST BE PROVIDED PER ACI 350.
- FOR CONCRETE BLOCK WALL INTERSECTIONS AND END OF WALL CONDITIONS, REFER TO "TYPICAL CONCRETE BLOCK WALL END/INTERSECTION" DETAIL.
- THE STANDARD WIDTH OF BOTH HORIZONTAL AND VERTICAL MORTAR JOINTS SHALL BE 3/8".
- CONCRETE BLOCK CONSTRUCTION SHALL BE RUNNING BOND WITH OPEN ENDED BLOCK.
- FOR CONCRETE BLOCK WALL CONSTRUCTION JOINT, SEE "TYPICAL CMU CONSTRUCTION JOINT" DETAIL.

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

BCR

865 The Alameda
San Jose, California 95126
408-296-5515

DATE 12/02/22
DESIGN J. VISAYA
DRAWN S. HICKEY
CHECKED D. DEVLIN

ENGINEERING CERTIFICATION

12/2/2022

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

COYOTE PERCOLATION DAM REPLACEMENT

CONTROL BUILDING FOUNDATION AND ROOF FRAMING PLANS

SCALE AS SHOWN	PROJECT NUMBER 91864005
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-16 SHEET NUMBER: 58

Attachment 3
58 of 106

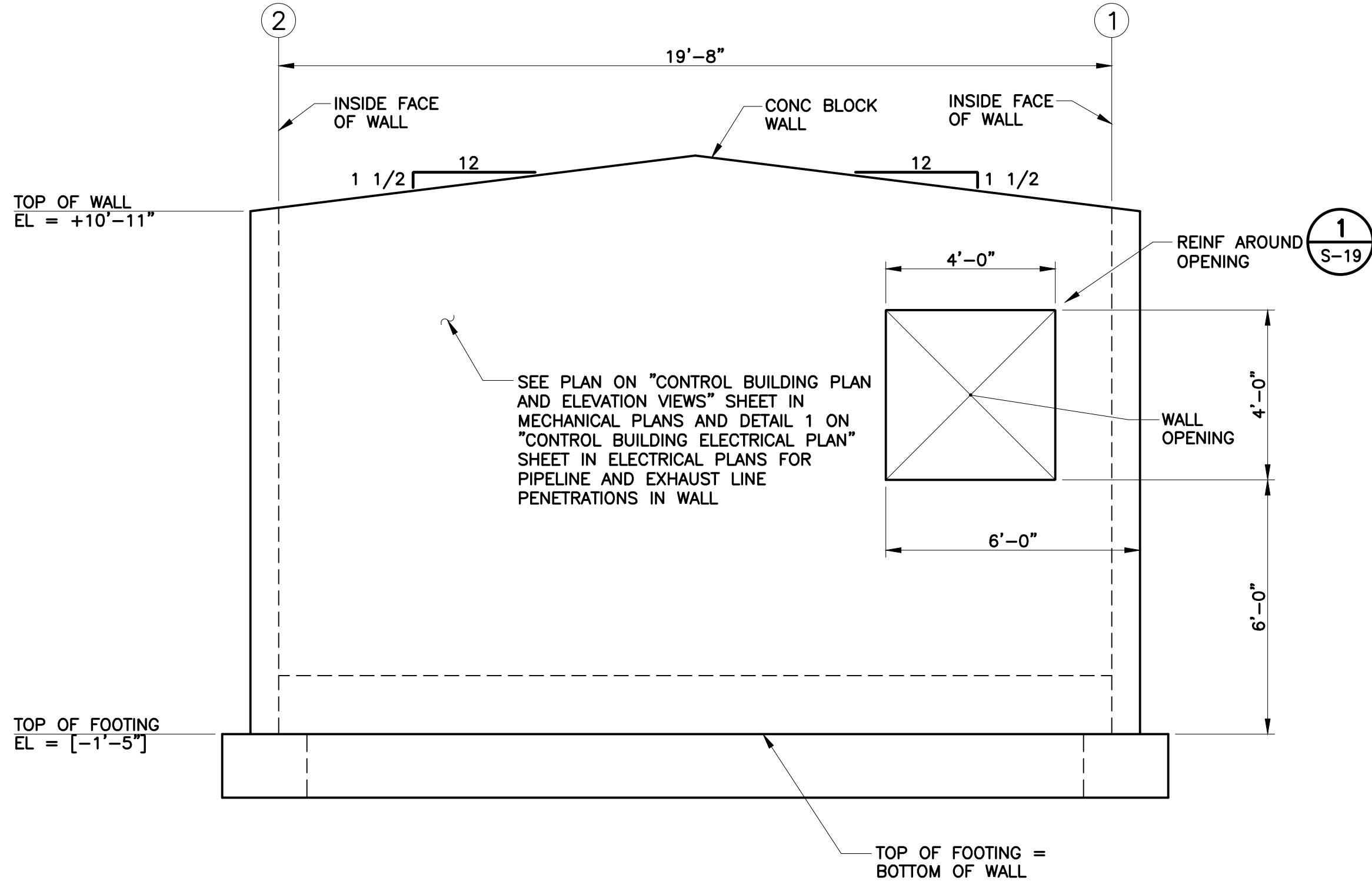
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FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\Sheet\S-17

DOCUMENT NUMBER: COO-S-9248-75901

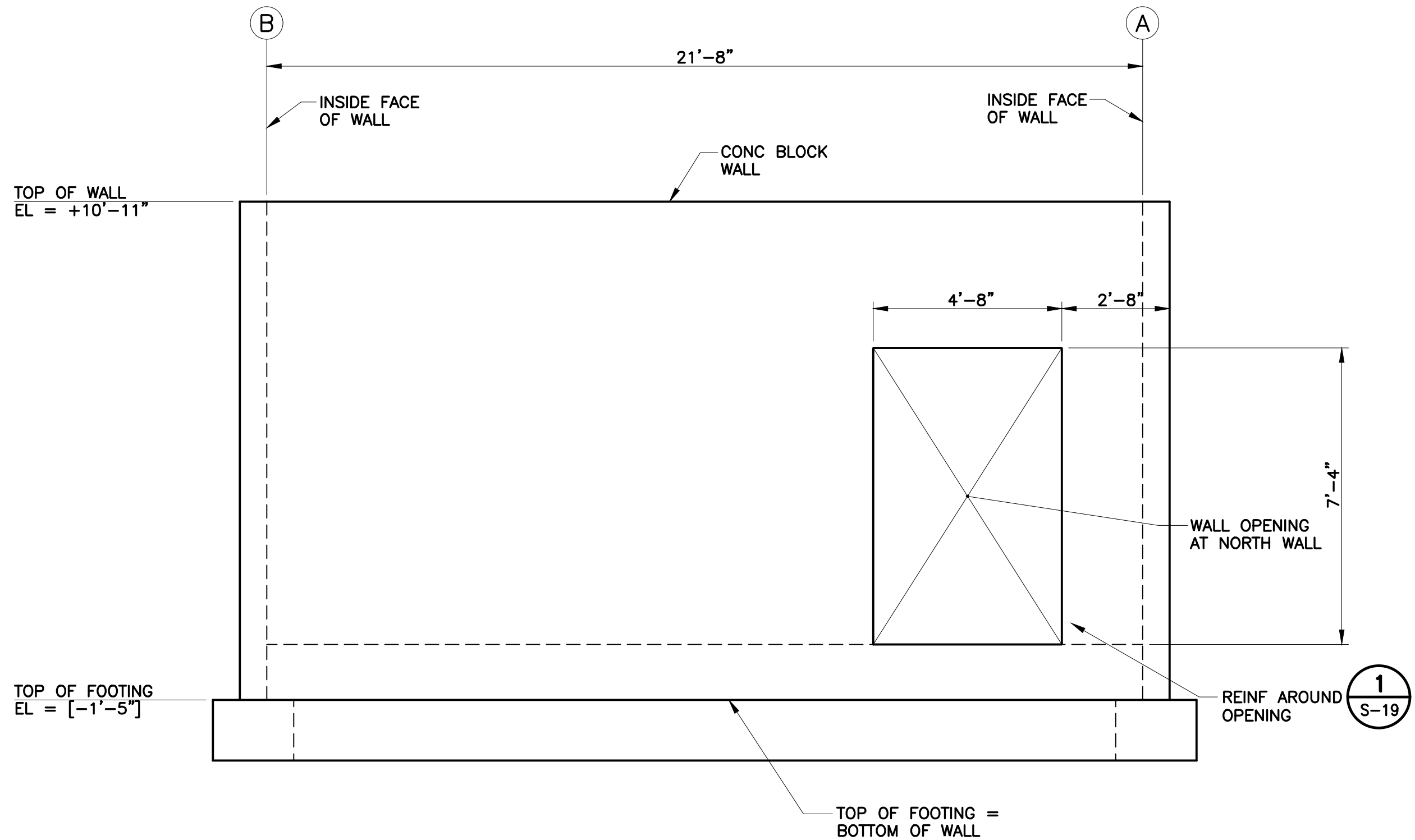
4

2

1



DETAIL **1** EAST WALL ELEVATION
WEST WALL ELEVATION (OH)
SCALE: 3/8" = 1'-0"



DETAIL **2** NORTH WALL ELEVATION
SOUTH WALL ELEVATION (OH)
SCALE: 3/8" = 1'-0"

4

3

2

1

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES	BIGGS CARDOSA ASSOCIATES INC STRUCTURAL ENGINEERS BCA 865 The Alameda San Jose, California 95126 408-296-5515	DATE 12/02/22 DESIGN J. VISAYA DRAWN J. DELGADO CHECKED D. DEVLIN	ENGINEERING CERTIFICATION REGISTERED PROFESSIONAL ENGINEER No. 2639 Exp. 12/31/24 STRUCTURAL STATE OF CALIFORNIA 12/2/2022 PROJECT ENGINEER DATE	SANTA CLARA VALLEY WATER DISTRICT Valley Water PROJECT ENGINEER DATE	PROJECT NAME AND SHEET DESCRIPTION: COYOTE PERCOLATION DAM REPLACEMENT CONTROL BUILDING CONCRETE BLOCK WALL ELEVATIONS	SCALE AS SHOWN VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91864009 SHEET CODE: S-17 SHEET NUMBER: 59
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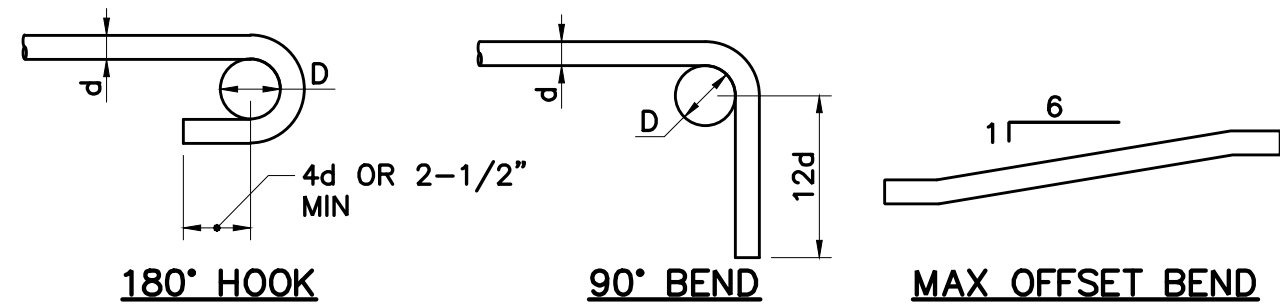
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3

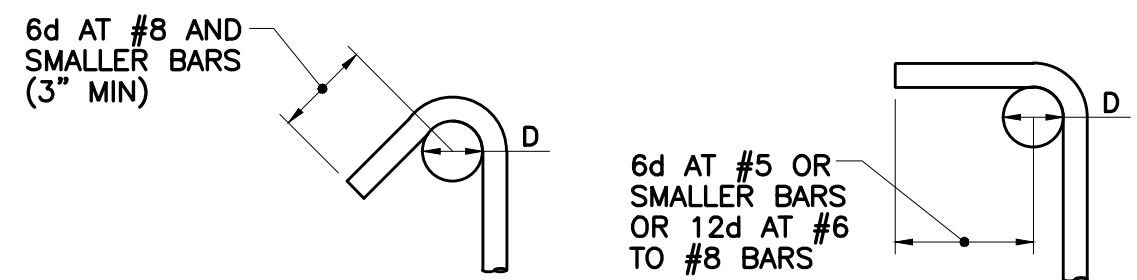
2

1



D = 6d FOR #3 THRU #8
D = 8d FOR #9 THRU #11

PRINCIPAL REINFORCING



D = 4d FOR #5 AND SMALLER
D = 6d FOR #6 THRU #8
D = 8d FOR #9 THRU #11

TIES OR STIRRUPS

NOTE:
1. ALL BENDS SHALL BE MADE COLD.

DETAIL 1 TYPICAL BAR HOOKS & BENDS

NO SCALE

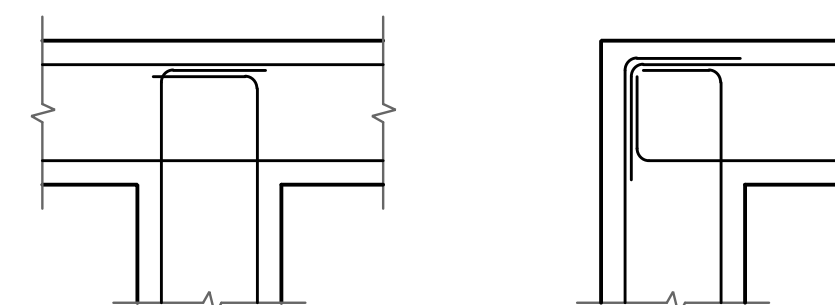
BAR SIZE	f'c=3000 PSI		f'c=4000 PSI	
	BOTTOM	TOP	BOTTOM	TOP
#3	16"	18"	16"	16"
#4	18"	24"	16"	24"
#5	24"	30"	24"	30"
#6	36"	42"	30"	36"
#7	42"	54"	36"	48"
#8	54"	72"	48"	60"

NOTES:

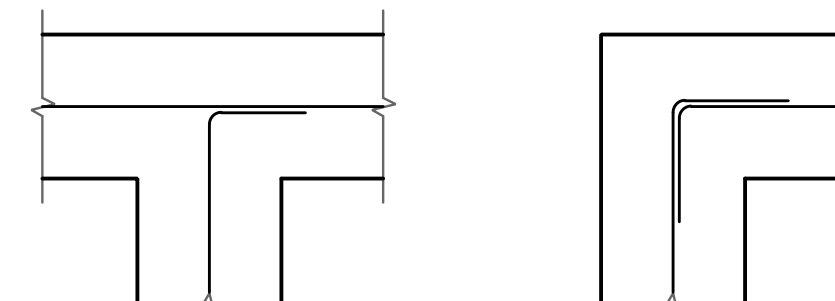
- LAP SPLICE LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
- THE TOP BAR LAP SPLICE SHALL BE USED FOR HORIZONTAL BARS WHERE THERE IS 12" OR MORE OF FRESH CONCRETE BELOW THE BAR. WALL HORIZONTAL BARS ARE 'TOP BARS'. WALL VERTICAL BARS ARE 'BOTTOM BARS'.
- WHEN TWO BARS OF DIFFERENT SIZES ARE SPLICED, USE THE SHORTER LAP LENGTH.
- STAGGER LAP SPLICES OF ADJACENT BARS BY 24".
- INCREASE LAP SPLICE LENGTH BY A FACTOR OF 1.3 FOR EPOXY COATED TOP BARS, 1.5 FOR EPOXY COATED BOTTOM BARS, 1.33 FOR GRADE 80 BARS AND 1.33 FOR LIGHT WEIGHT CONCRETE.
- MINIMUM CENTER TO CENTER BAR SPACING: 3" FOR #6 AND SMALLER, 5" FOR #7 AND LARGER. INCREASE LAP LENGTH BY A FACTOR OF 1.7 FOR SMALLER SPACING, BUT NO LESS THAN 1-1/2" CLEAR DISTANCE FOR #8 AND SMALLER.

DETAIL 2 LAP SPLICE SCHEDULE

NO SCALE



REINFORCING EACH FACE *



REINFORCING IN CENTER *

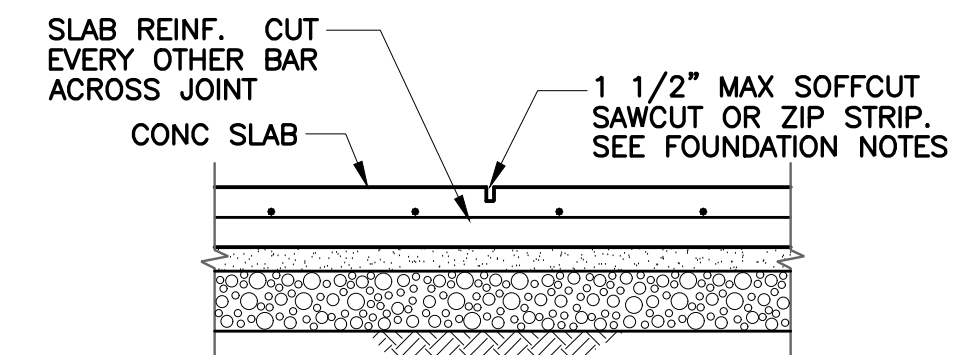
* VERTICAL REINFORCING NOT SHOWN

NOTES:

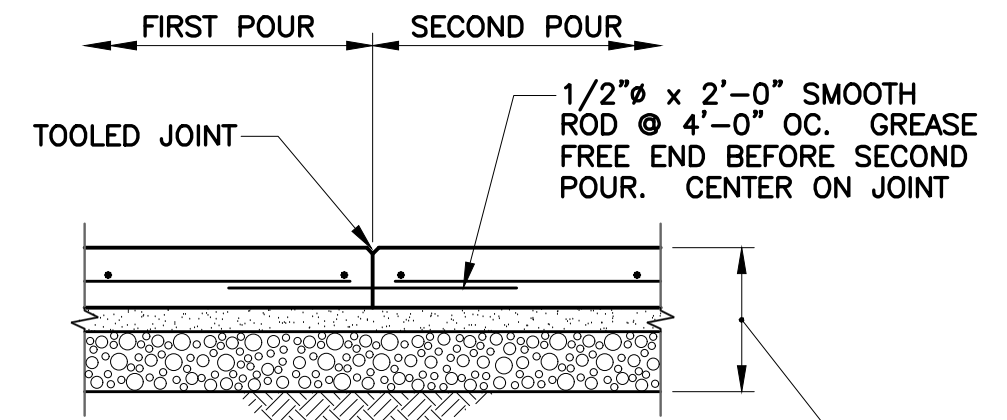
- d = BAR DIAMETER
- SEE TYPICAL BAR HOOKS & BENDS FOR MIN HOOK DIMENSIONS.

DETAIL 3 FOOTING AND WALL INTERSECTIONS

NO SCALE



CONTROL JOINT

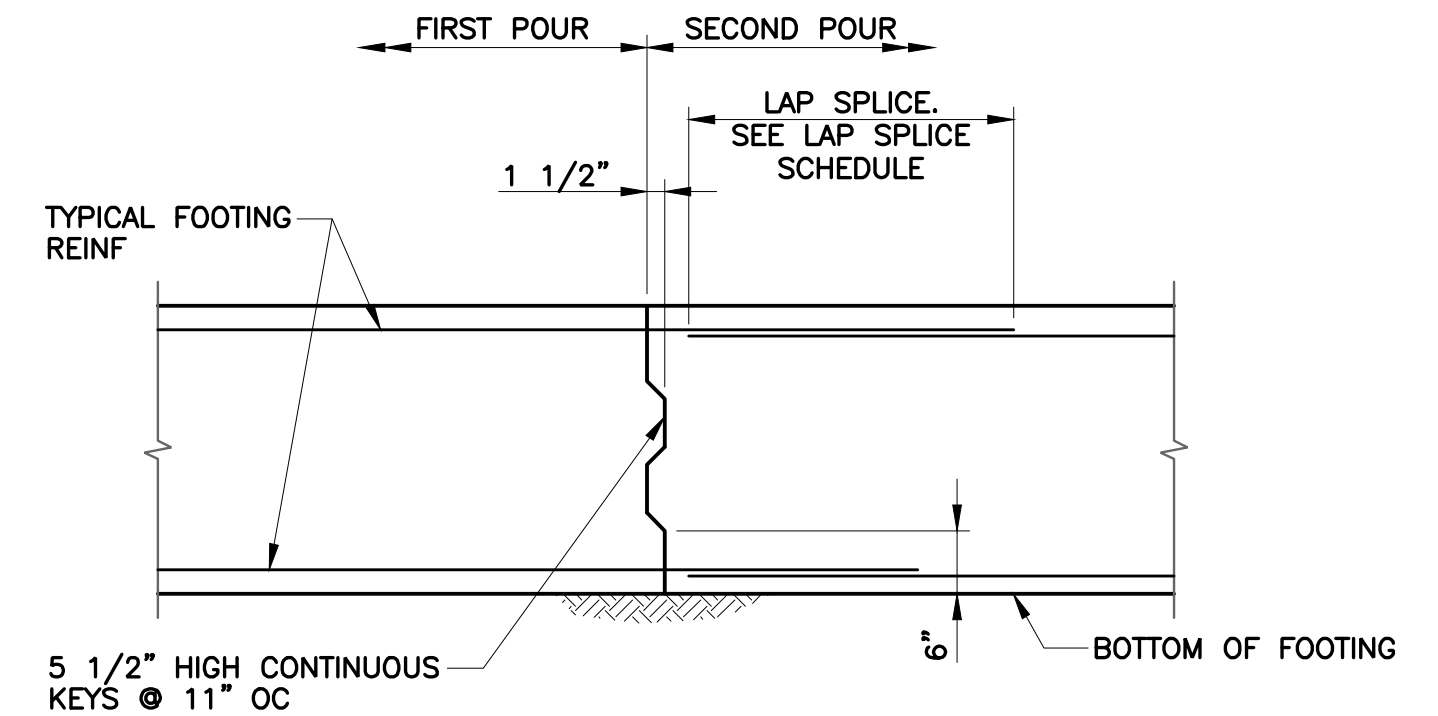


SLAB SECTION. SEE FOUNDATION NOTES

END CONDITION

DETAIL 4 TYPICAL SLAB JOINTS

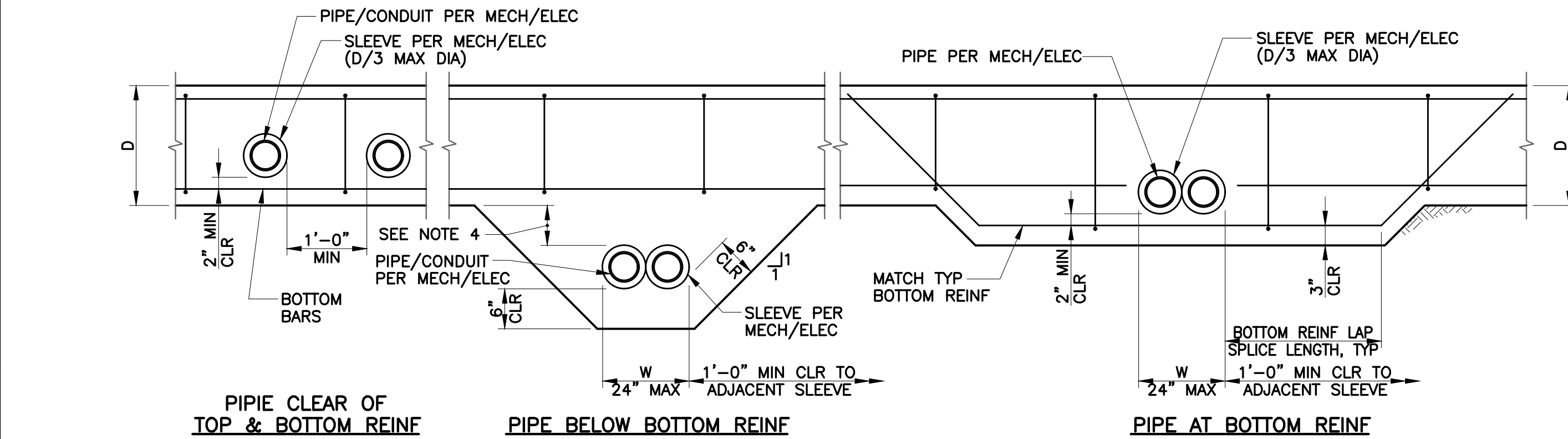
SCALE: 3/4 = 1'-0"



NOTE:
WHERE CONTINUOUS FOOTING IS UNDER A WALL, LOCATE CONSTRUCTION JOINT AT C. OF THE CLEAR OPENING WIDTH ABOVE FROM FACE OF OPENING. SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS TO ENGINEER FOR REVIEW AND APPROVAL.

DETAIL 6 FOOTING CONSTRUCTION JOINT

SCALE: 3/4 = 1'-0"

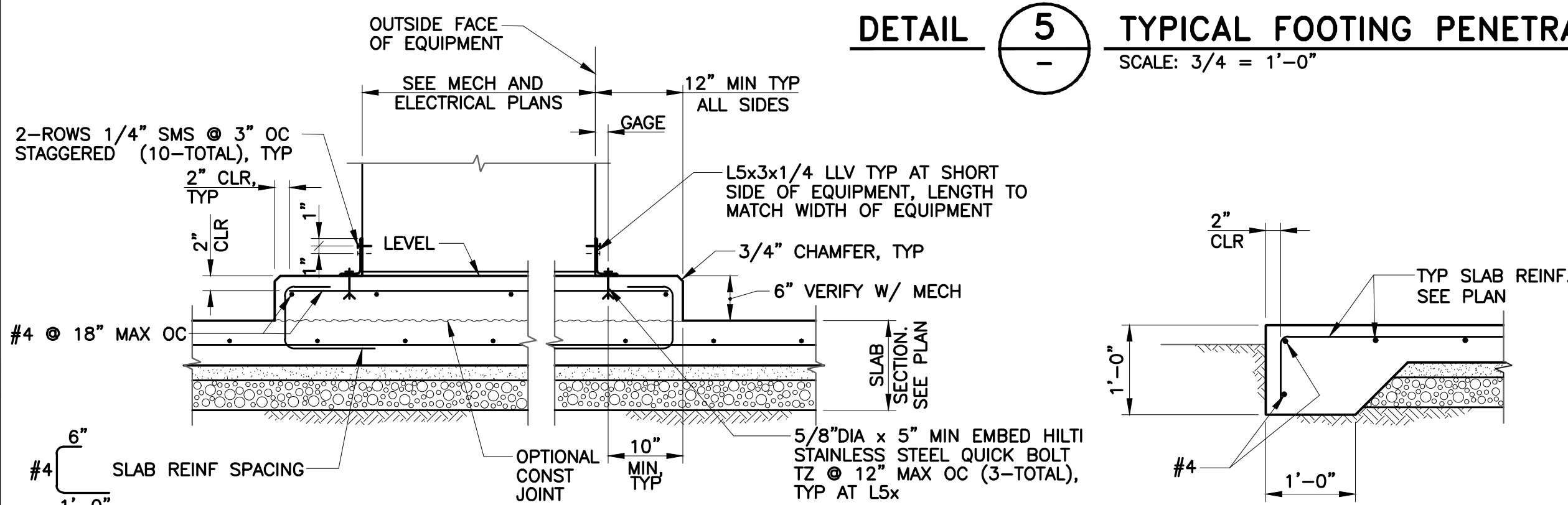


NOTES:

- SLEEVE ID 2" LARGER THAN PIPE/CONDUIT OD OR BELL OD.
- SEAL VOID BETWEEN PIPE/CONDUIT AND SLEEVE PER MECH/ELEC.
- DETAIL APPLICABLE TO MAXIMUM 8" DIA SLEEVE.
- NO FTG EXTENSION REQ'D FOR PIPE/CONDUIT DEEPER THAN 12" BELOW FTG (SLEEVE STILL REQ'D). EXCAVATE AT LEAST 6 INCHES UNDER AND 18 INCHES WIDER THAN THE PIPE SLEEVE ACROSS THE WIDTH OF THE FOOTING. THE EXCAVATION SHALL BE FILLED WITH LEAN CONCRETE.

DETAIL 5 TYPICAL FOOTING PENETRATIONS

SCALE: 3/4 = 1'-0"



DETAIL 7 TYPICAL CONCRETE PAD

SCALE: 3/4 = 1'-0"

DETAIL 8 TYPICAL SLAB EDGE

SCALE: 3/4 = 1'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

BCR

865 The Alameda
San Jose, California 95126
408-296-5515

DATE 12/02/22
DESIGN J. VISAYA
DRAWN J. LUDWIG
CHECKED D. DEVLIN
PROJECT ENGINEER DATE

ENGINEERING CERTIFICATION
No. 2639
Exp. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA
12/2/2022

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT ENGINEER DATE

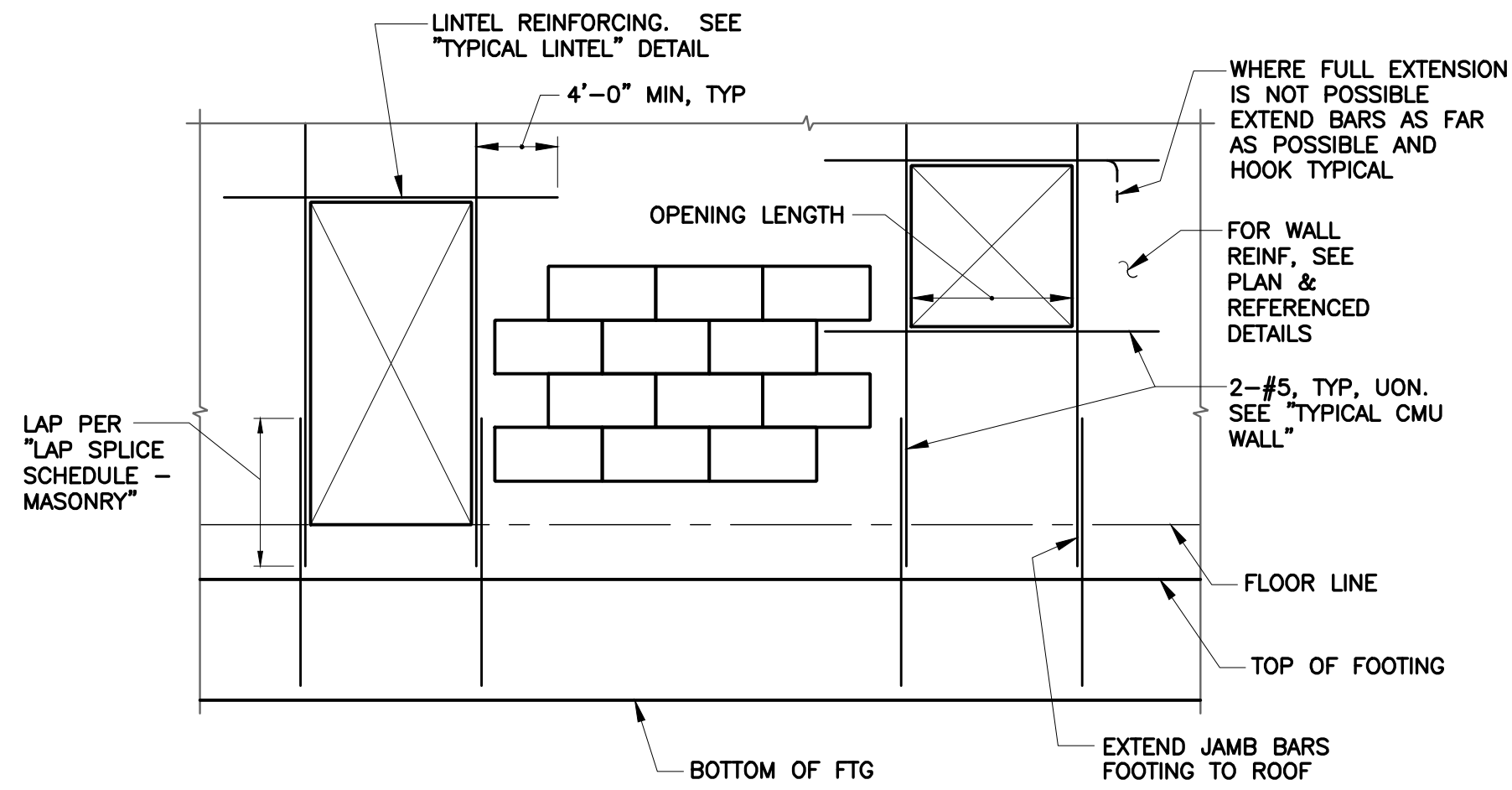
PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
CONTROL BUILDING
TYPICAL SECTIONS AND DETAILS 1 OF 3

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

PROJECT NUMBER 91864009
SHEET CODE: S-18
SHEET NUMBER: 60

USER: OcaReyn Thu 12 Jan 2023 04:54pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\Sheet\S-19

DOCUMENT NUMBER: COO-S-9248-75903



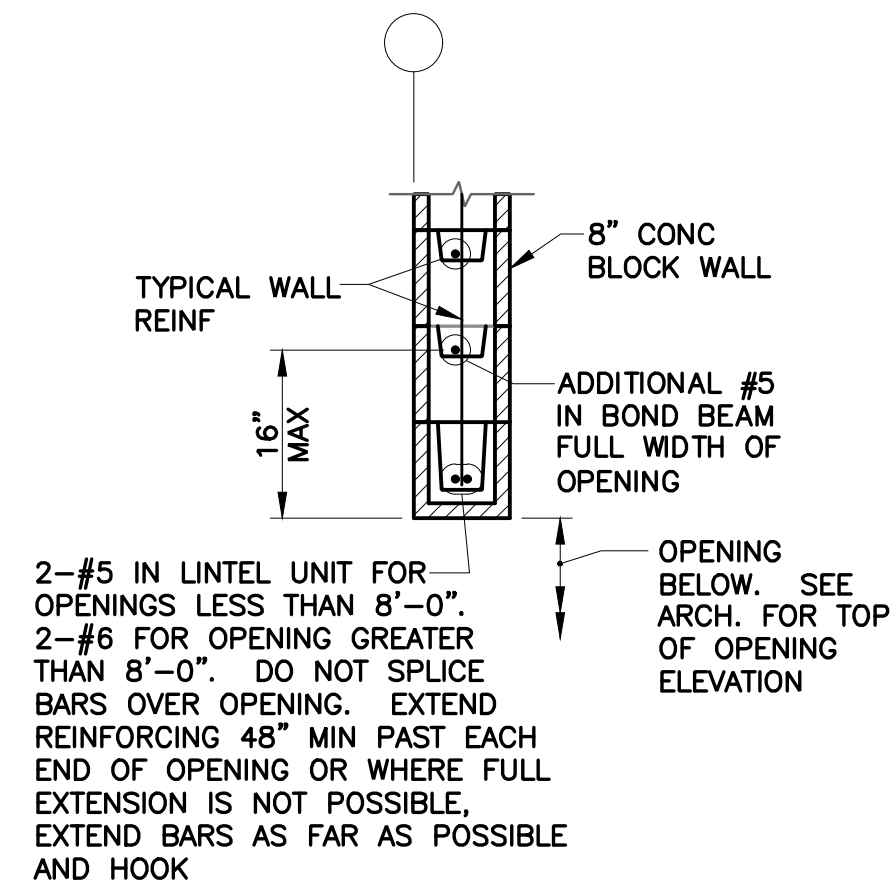
DETAIL 1 CONCRETE BLOCK WALL OPENINGS
SCALE: 1/2" = 1'-0"

LAP SPLICE SCHEDULE - MASONRY			
BAR SIZE	CLEAR COVER = 2"	CLEAR COVER = 2.5"	CLEAR COVER ≥ 3"
#3	14"	12"	12"
#4	26"	22"	18"
#5	40"	32"	28"
#6	74"	60"	50"
#7	102"	82"	68"
#8	152"	122"	102"

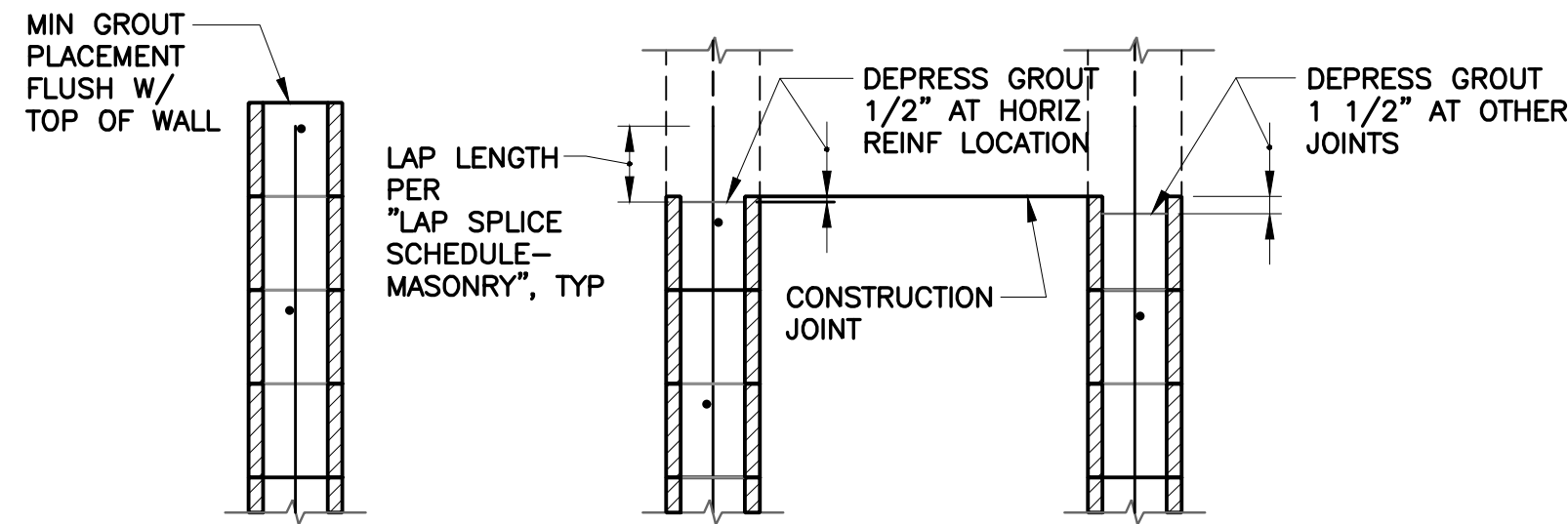
NOTES:

1. STAGGER LAP SPLICES OF ADJACENT BARS BY 24".
2. MINIMUM BAR CLEAR SPACING IS 9d_B BEYOND SPLICE.
3. MULTIPLY BY 1.5 FOR EPOXY COATED BARS.
4. INTERPOLATE FOR CLEAR COVER NOT SHOWN.

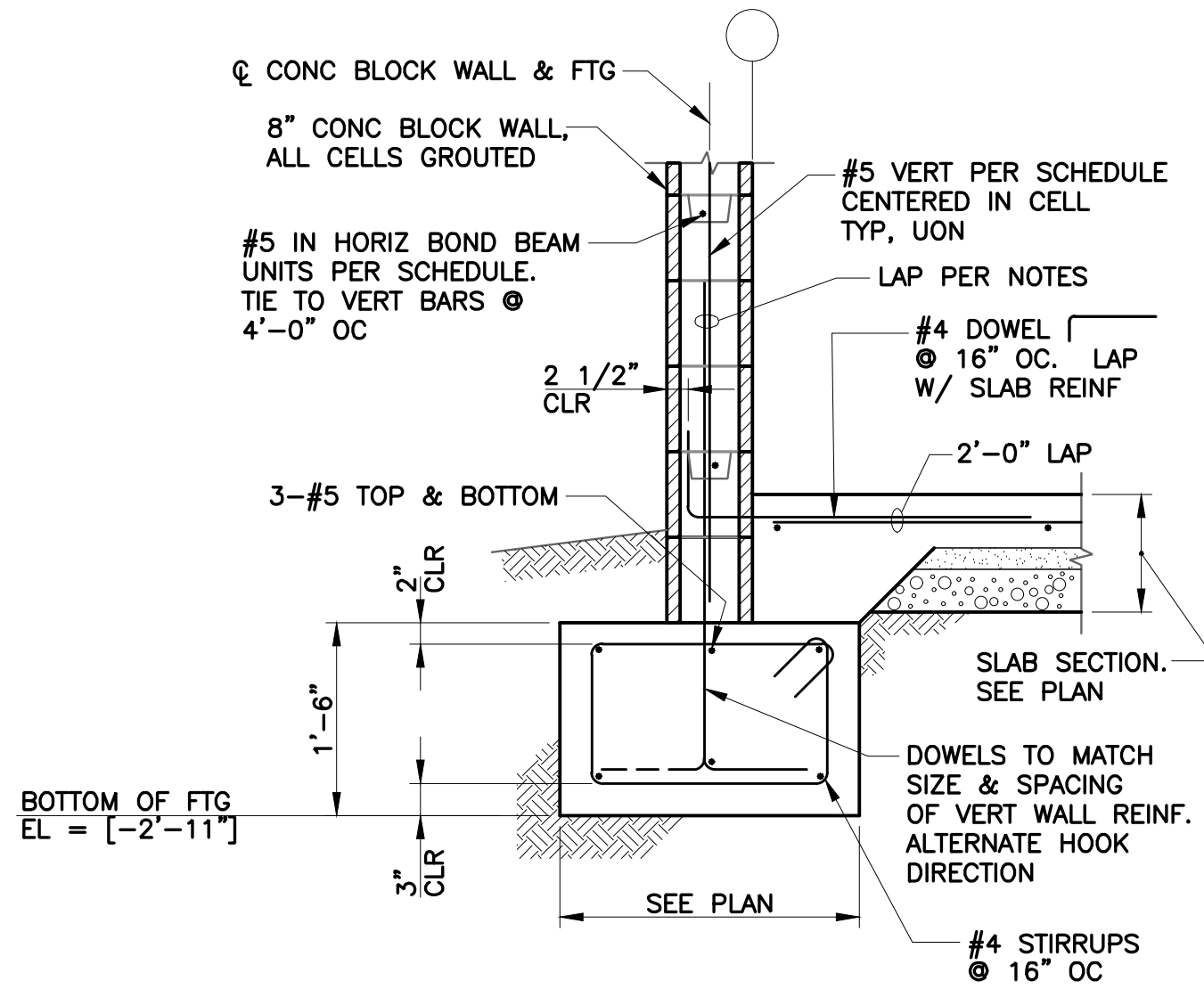
DETAIL 2 LAP SPLICE SCHEDULE - MASONRY
NO SCALE



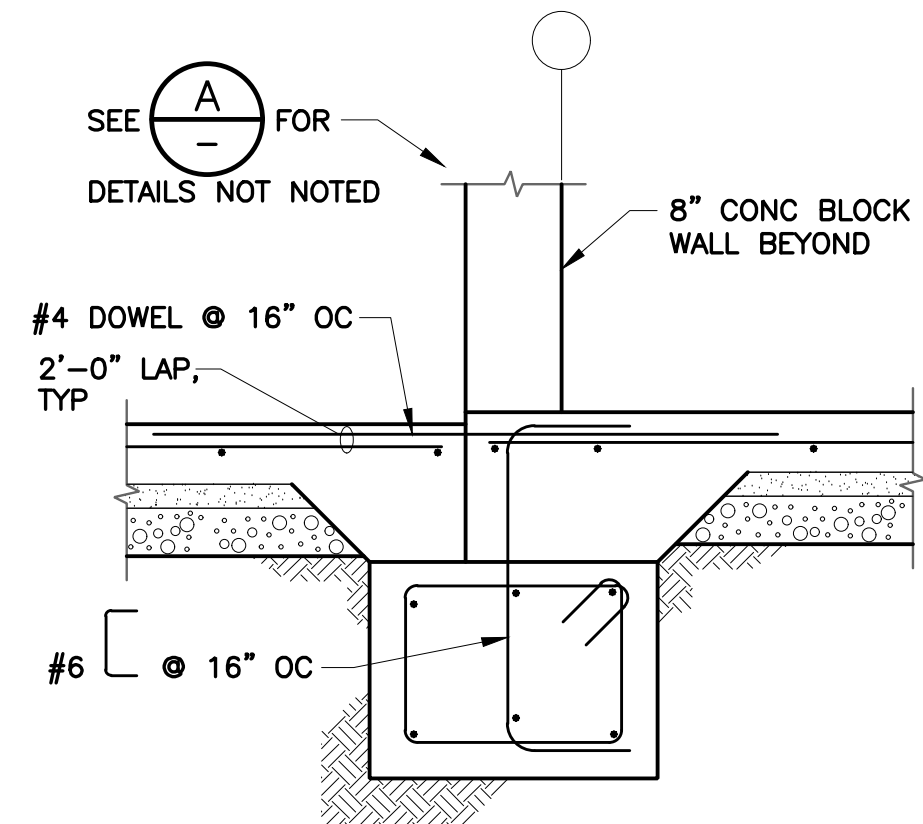
DETAIL 3 TYPICAL LINTEL
SCALE: 3/4" = 1'-0"



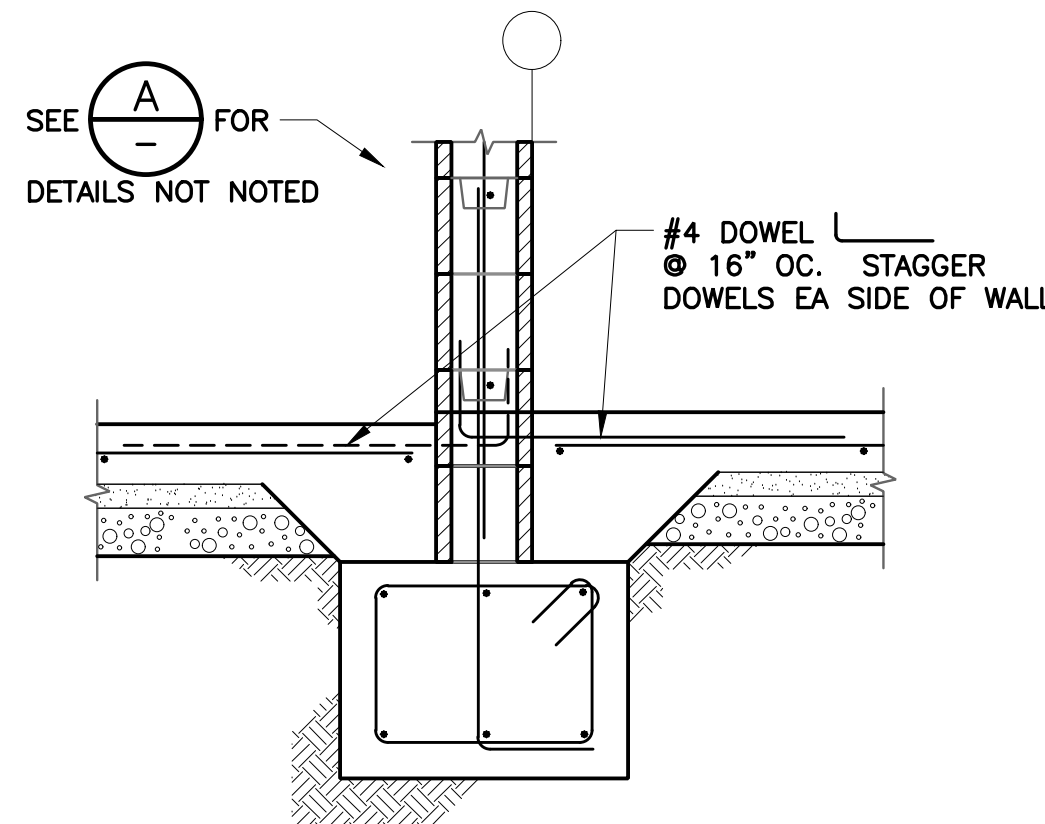
DETAIL 4 TYPICAL CMU CONSTRUCTION JOINT
SCALE: 3/4" = 1'-0"



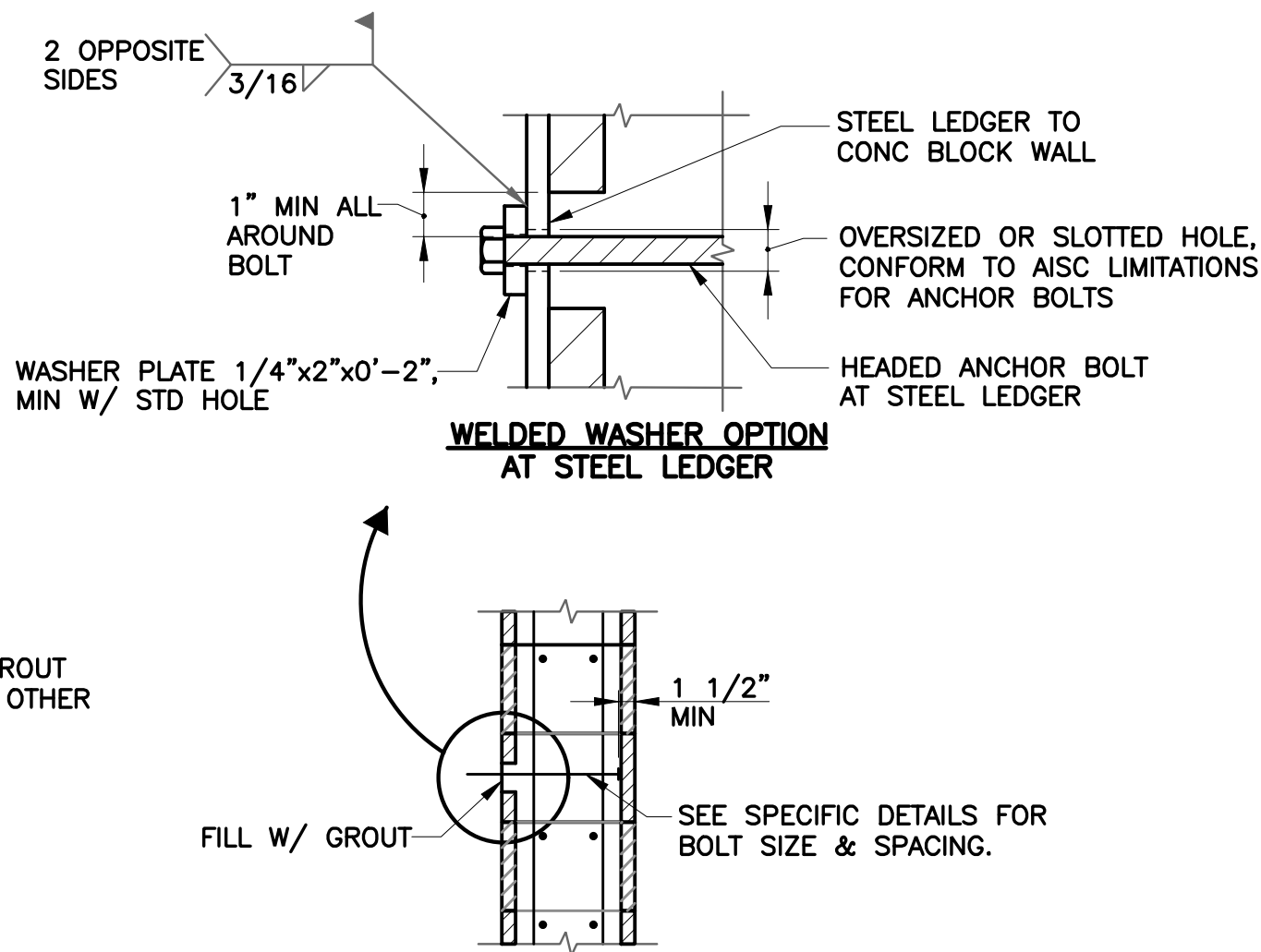
SECTION A CMU WALL FOOTING
SCALE: 3/4" = 1'-0"



SECTION B SLAB AT DOOR
SCALE: 3/4" = 1'-0"



SECTION C EXTERIOR AND INTERIOR SLABS AND WALL FOOTING
SCALE: 3/4" = 1'-0"

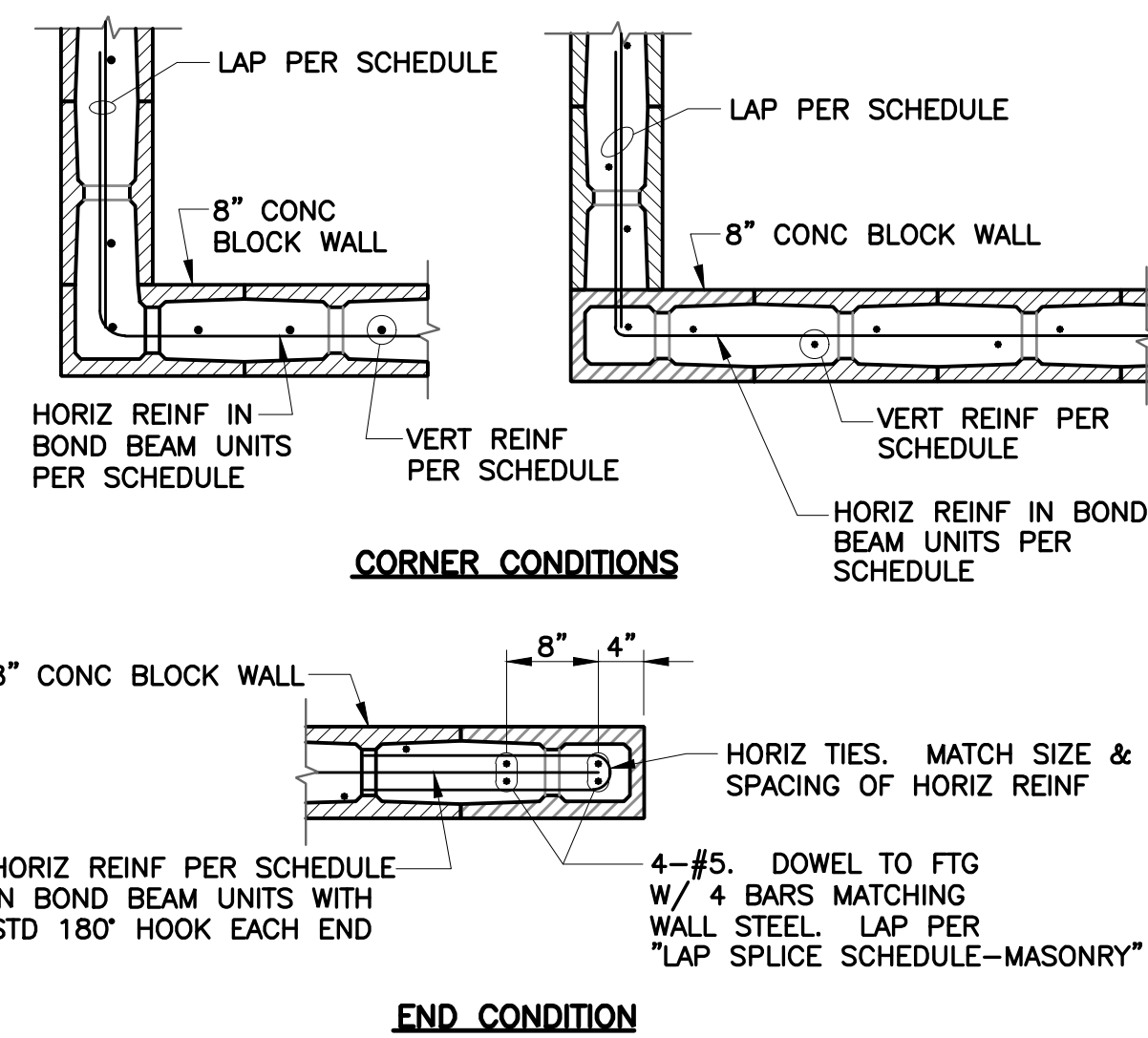


BOLT SIZE	EMBEDMENT (MIN)
1/2"	4"
5/8"	4 1/2"
3/4"	5"
7/8"	6"
1"	6 1/2"

NOTES:

- USE WELDED WASHER WHERE OVERSIZED OR SLOTTED HOLES ARE USED AT CONTRACTOR'S OPTION WHERE A STANDARD ROUND HOLE WOULD OTHERWISE BE REQUIRED.

DETAIL 5 BOLT IN CMU WALL
SCALE: 3/4" = 1'-0"



DETAIL 6 TYPICAL CMU WALL END/INTERSECTION
SCALE: 3/4" = 1'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

BCR

865 The Alameda
San Jose, California 95126
408-296-5515

DATE 12/02/22
DESIGN J. VISAYA
DRAWN S. HICKEY
CHECKED D. DEVLIN
PROJECT ENGINEER DATE

ENGINEERING CERTIFICATION
No. 2639
Exp. 12/31/24
12/2/2022

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT ENGINEER DATE

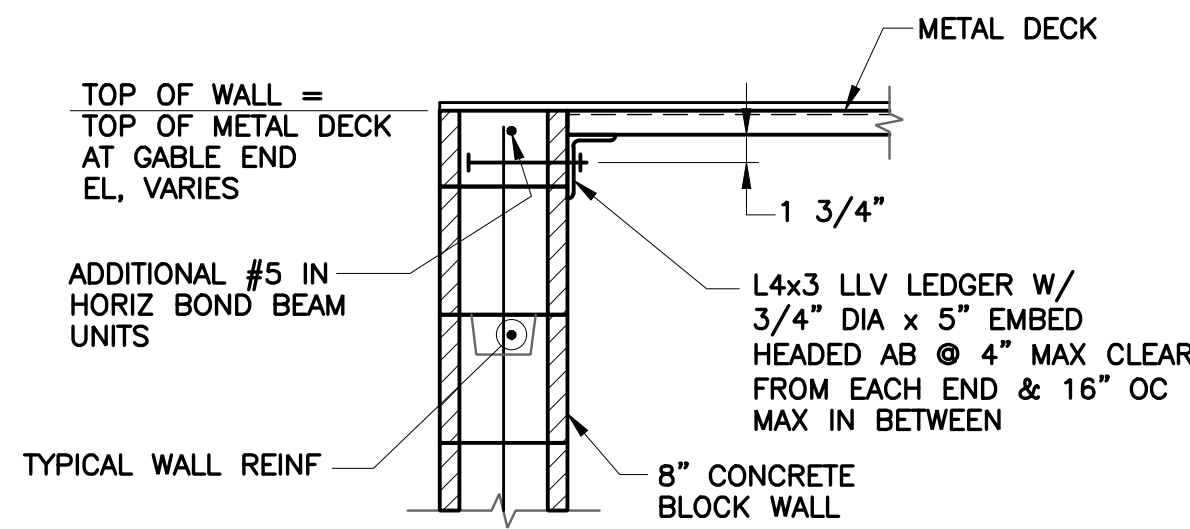
PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
CONTROL BUILDING
TYPICAL SECTIONS AND DETAILS 2 OF 3

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

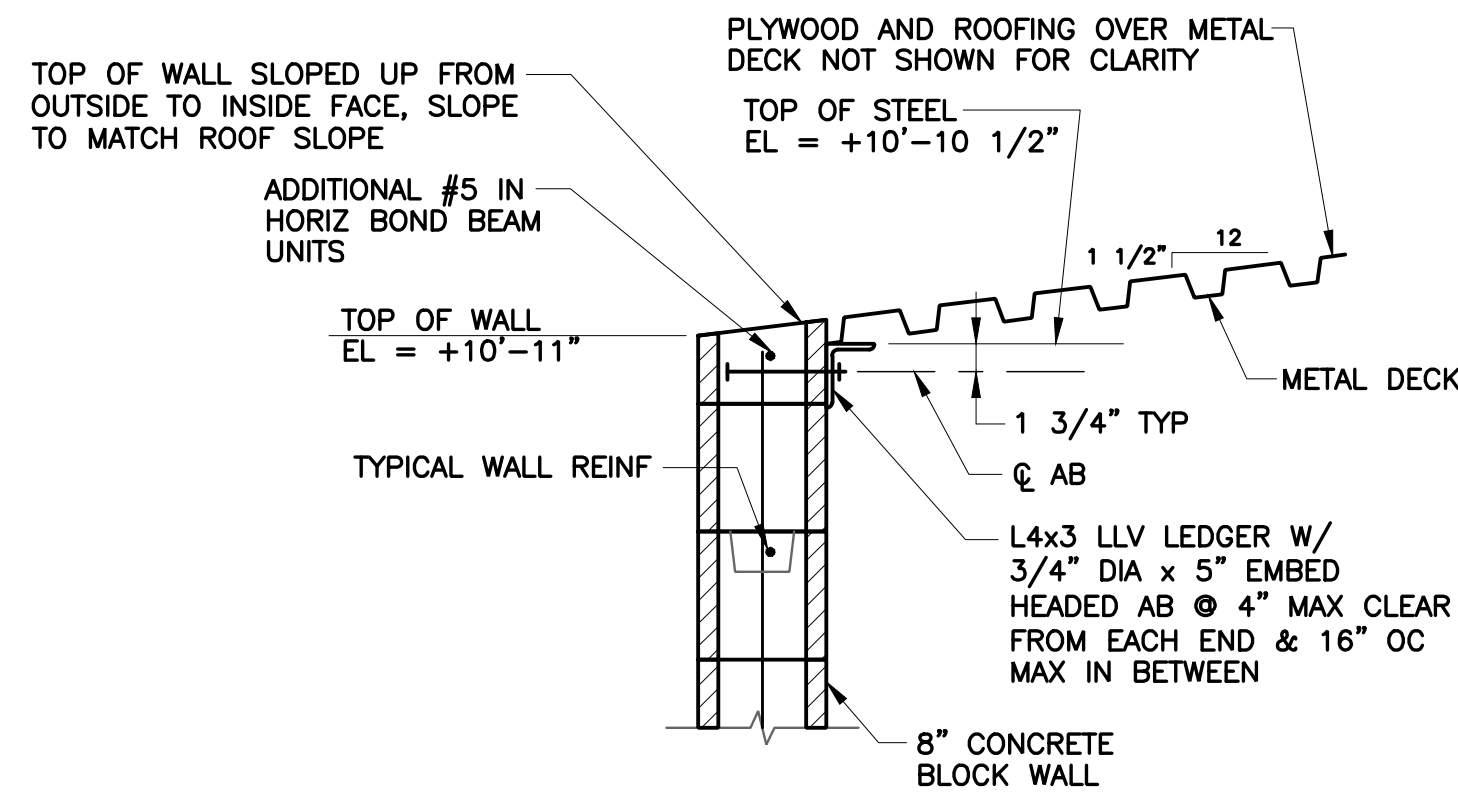
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SHEET CODE: S-19
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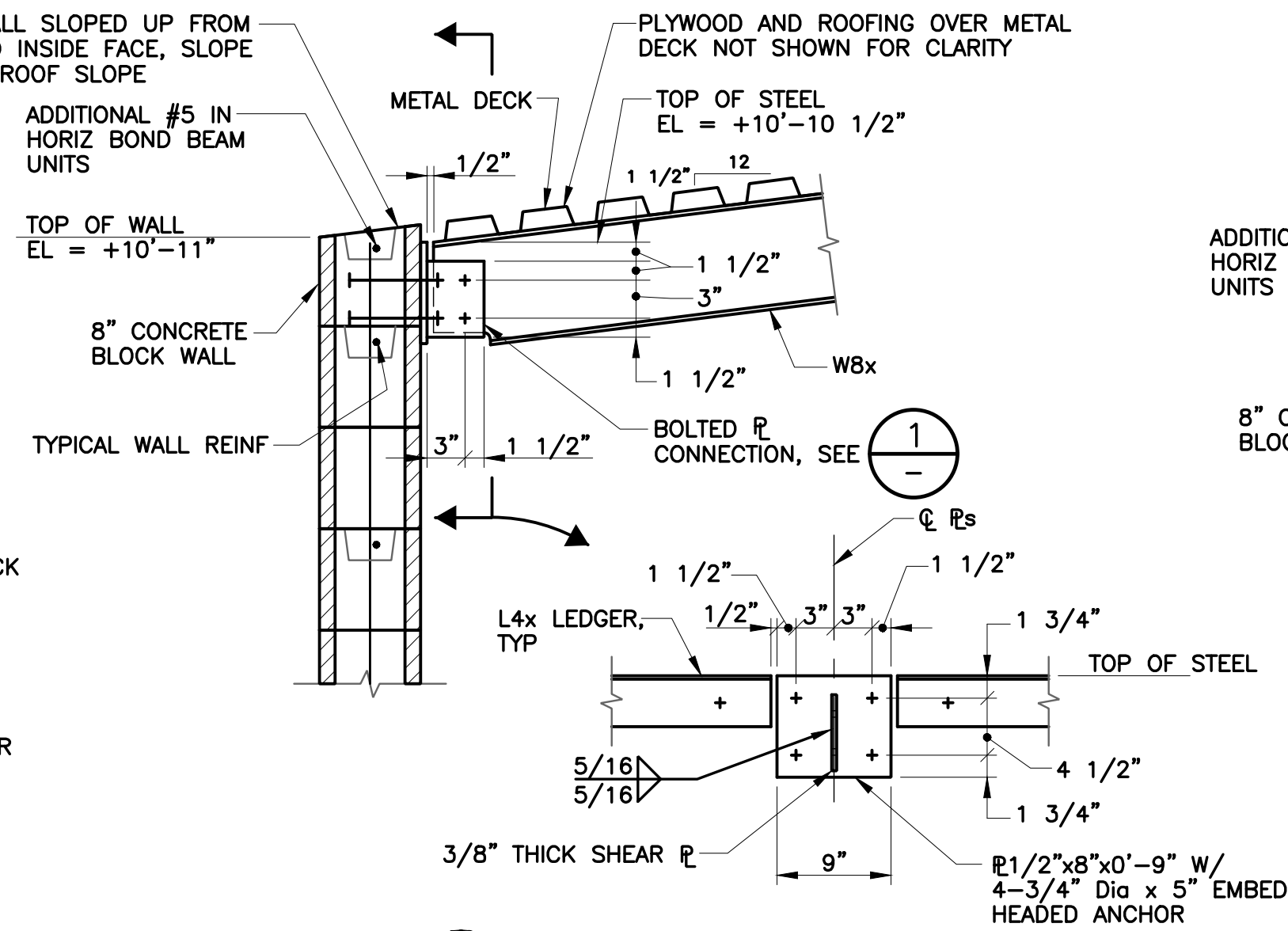
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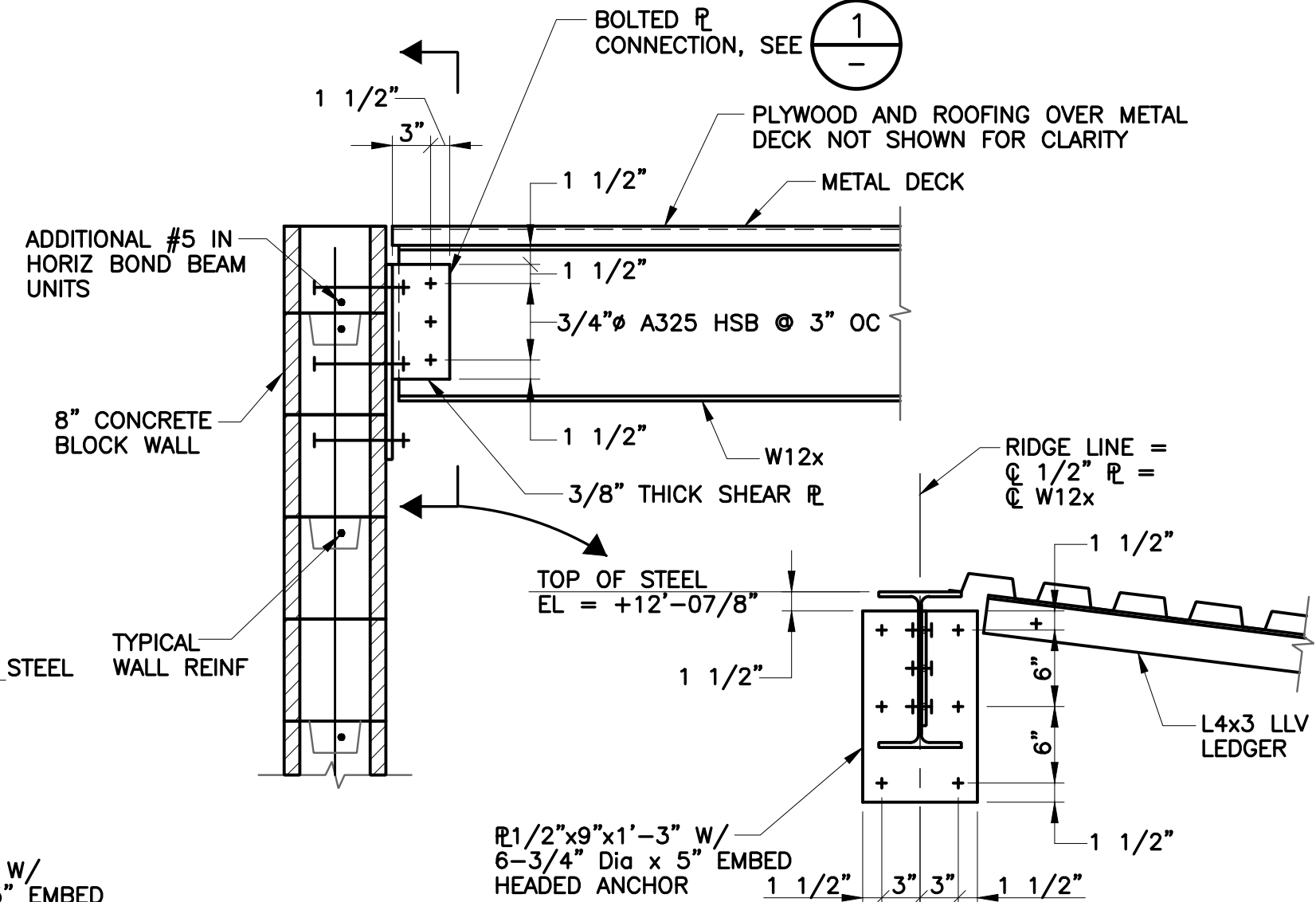
SECTION **A** CONNECTION
S-16 WALL PERPENDICULAR TO ROOF DECK
SCALE: 1" = 1'-0"



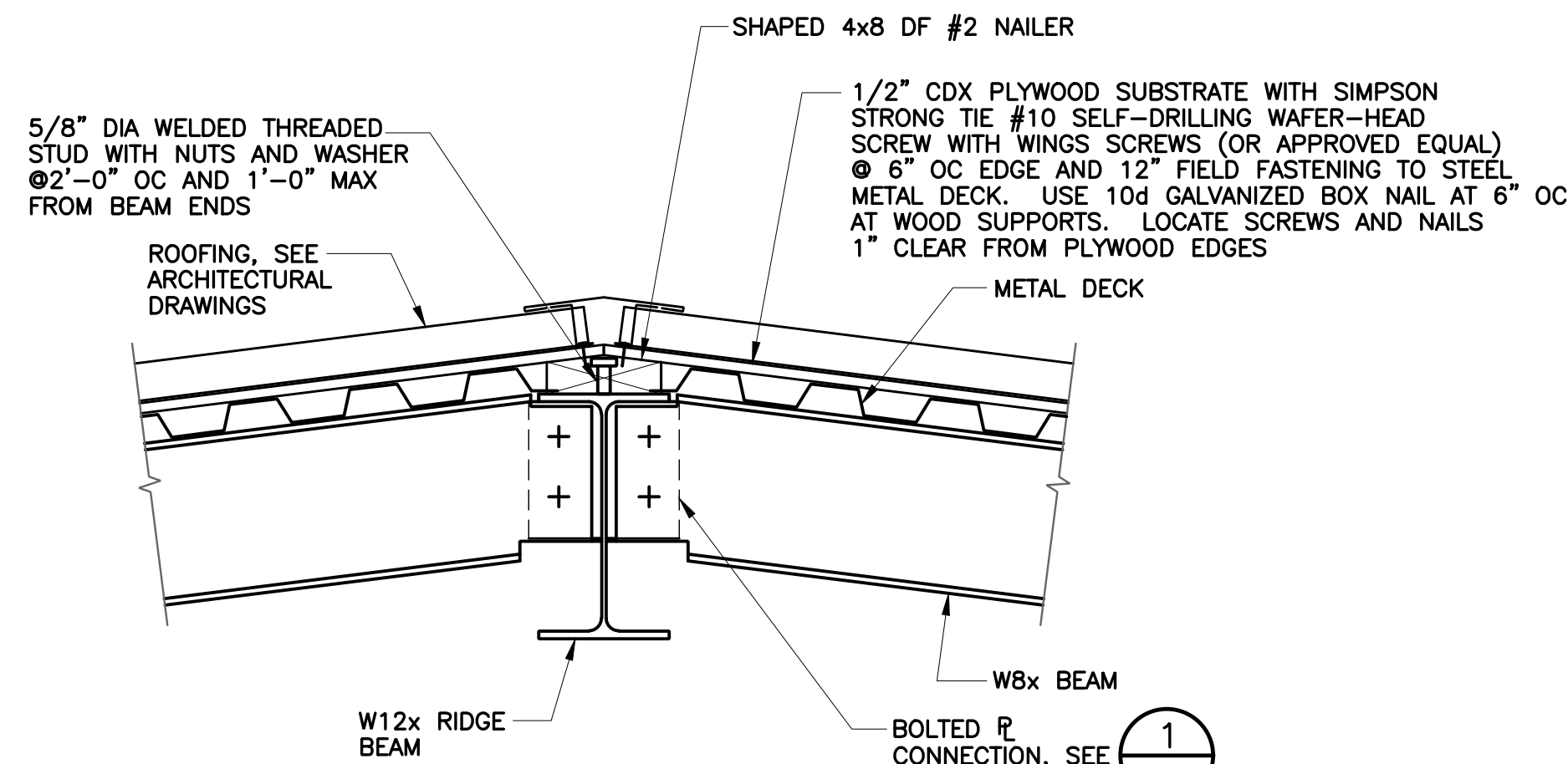
SECTION **B** CONNECTION
S-16 WALL PARALLEL TO ROOF DECK
SCALE: 1" = 1'-0"



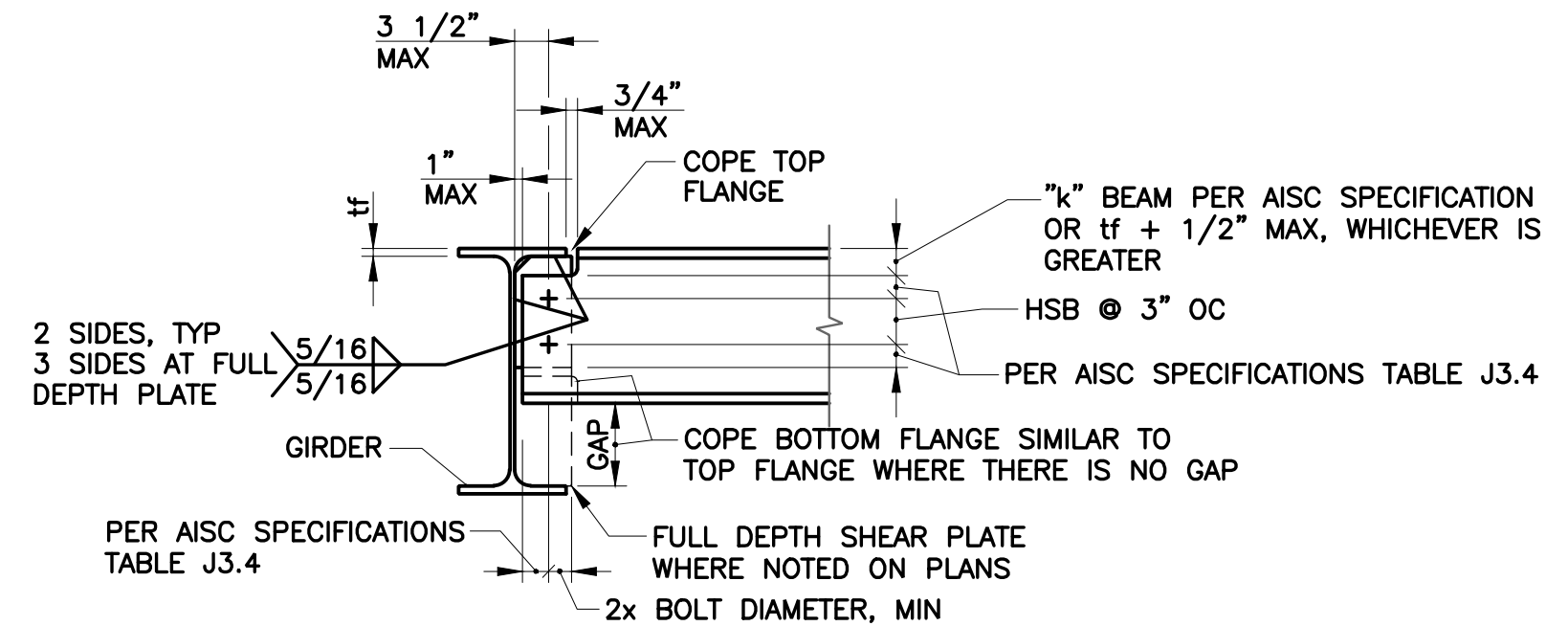
SECTION **C** CONNECTION
S-16 SLOPED BEAM TO WALL
SCALE: 1" = 1'-0"



SECTION **D** CONNECTION
S-16 RIDGE BEAM TO WALL
SCALE: 1" = 1'-0"



SECTION **E** RIDGE DETAIL
S-16 SCALE: 1 1/2" = 1'-0"



BOLTED PLATE CONNECTION

BEAM SIZE	NUMBER OF BOLTS	BOLTS	SHEAR PLATE THICKNESS
C6-C12, W8-W10	2 @ 3" OC	3/4" Dia A325, UON 5/8" Dia A325 AT C6	3/8"
C13-C15, W12-W14	3 @ 3" OC	3/4" Dia A325	3/8"

DETAIL **1** CONNECTION
- SINGLE PLATE
1" = 1'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

BCR

865 The Alameda
San Jose, California 95126
408-296-5515

DATE
12/02/22
DESIGN
J. VISAYA
DRAWN
A. ROSALES
CHECKED
D. DEVLIN

ENGINEERING CERTIFICATION

Michael J. Rosales

No. 2639
Exp. 12/31/24

STRUCTURAL
STATE OF CALIFORNIA

12/2/2022

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

COYOTE PERCOLATION DAM REPLACEMENT

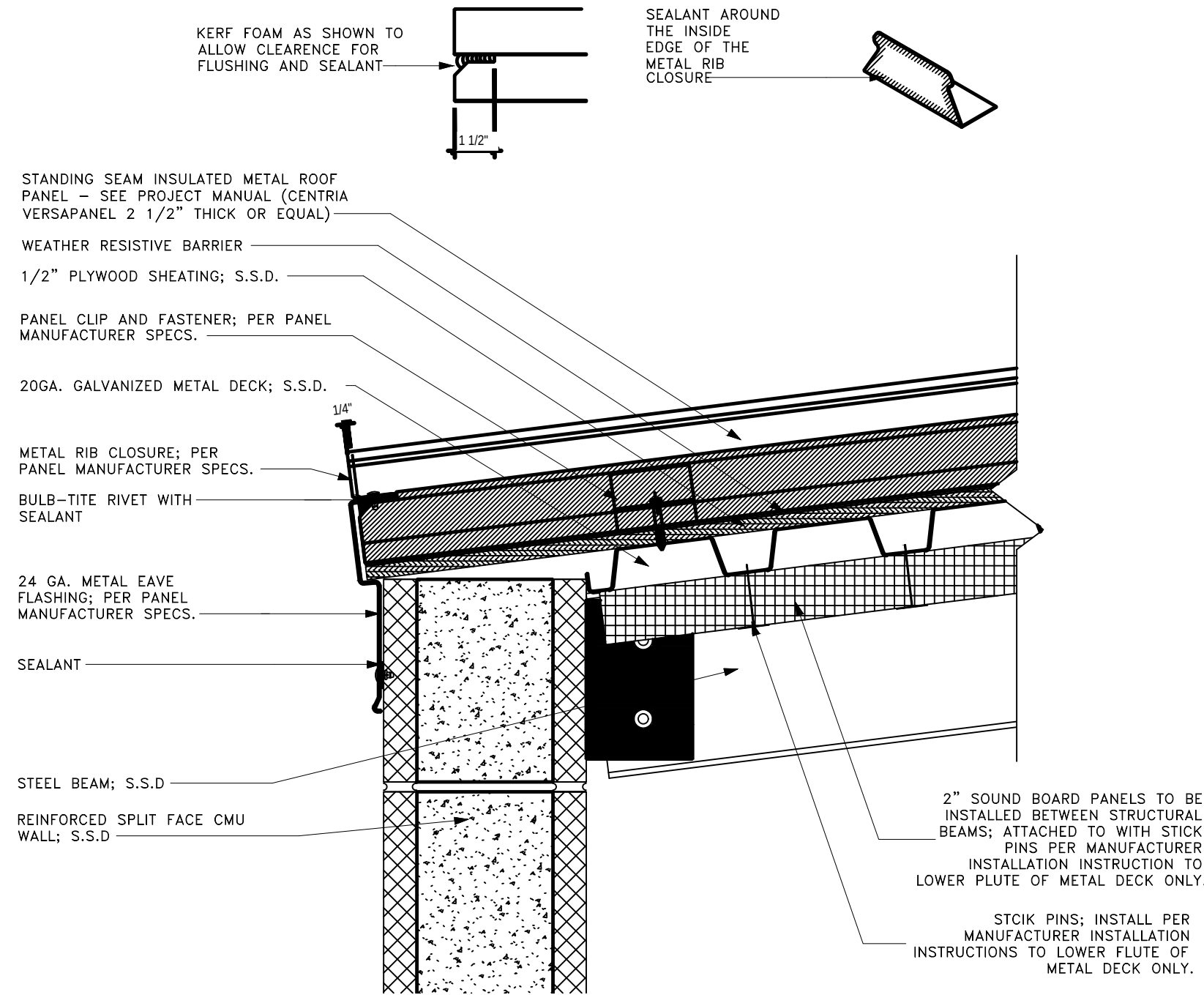
CONTROL BUILDING

TYPICAL SECTIONS AND DETAILS 3 OF 3

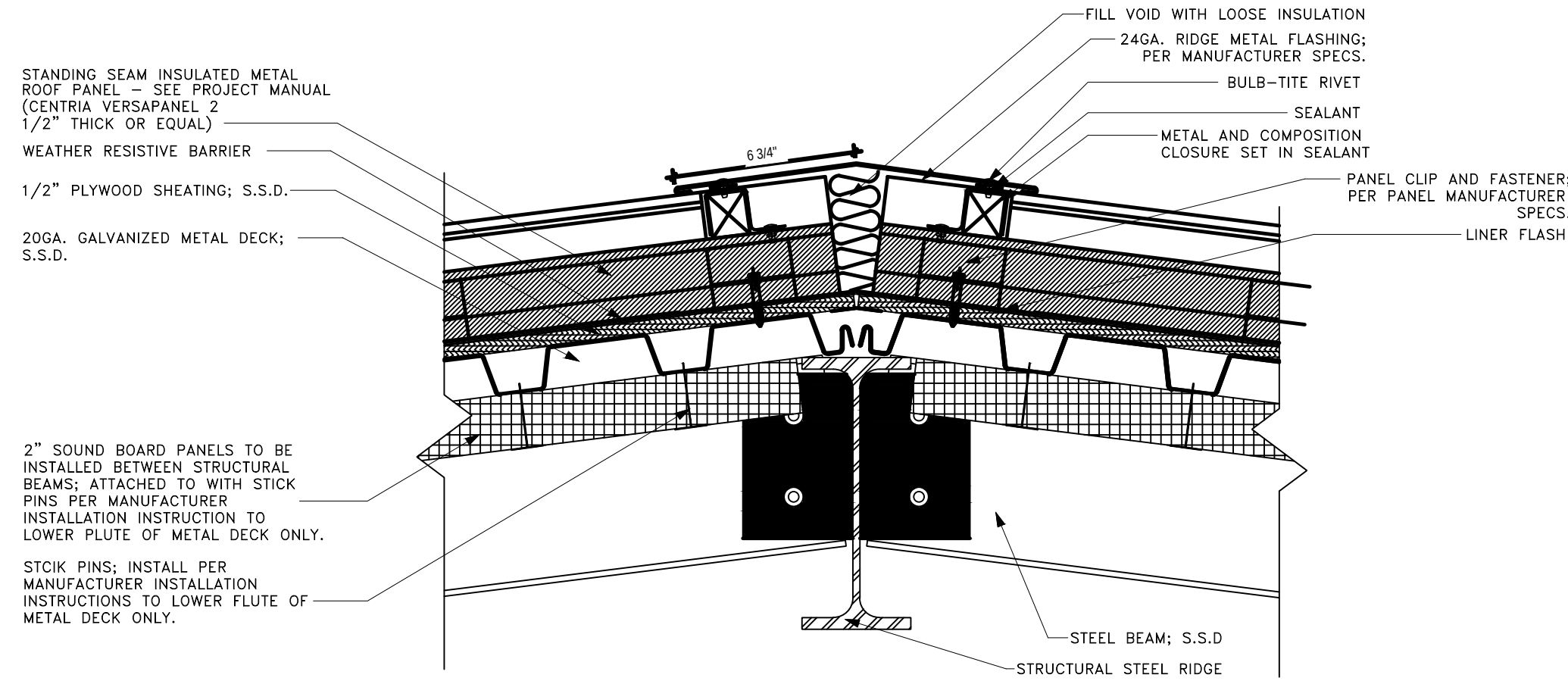
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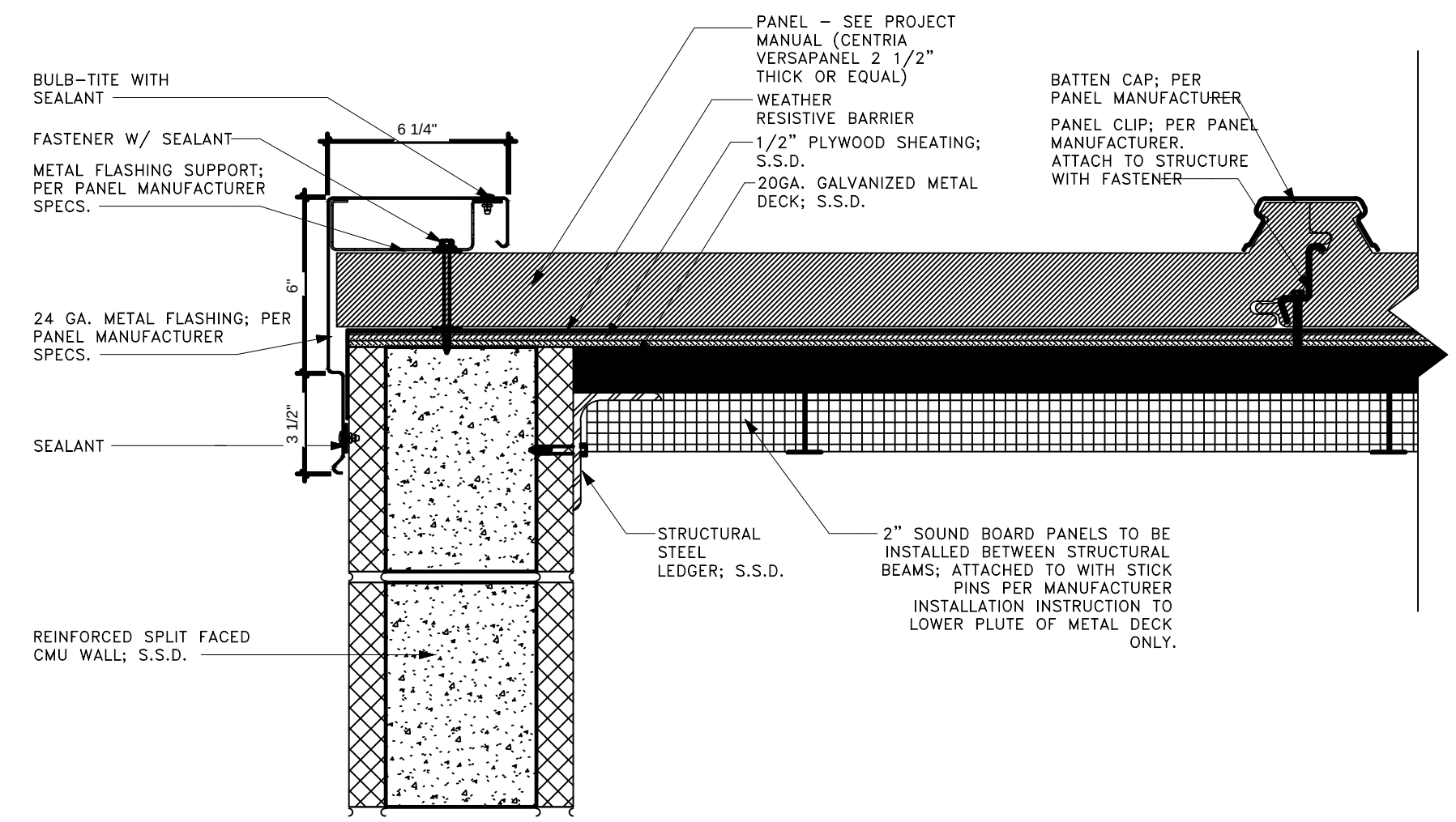
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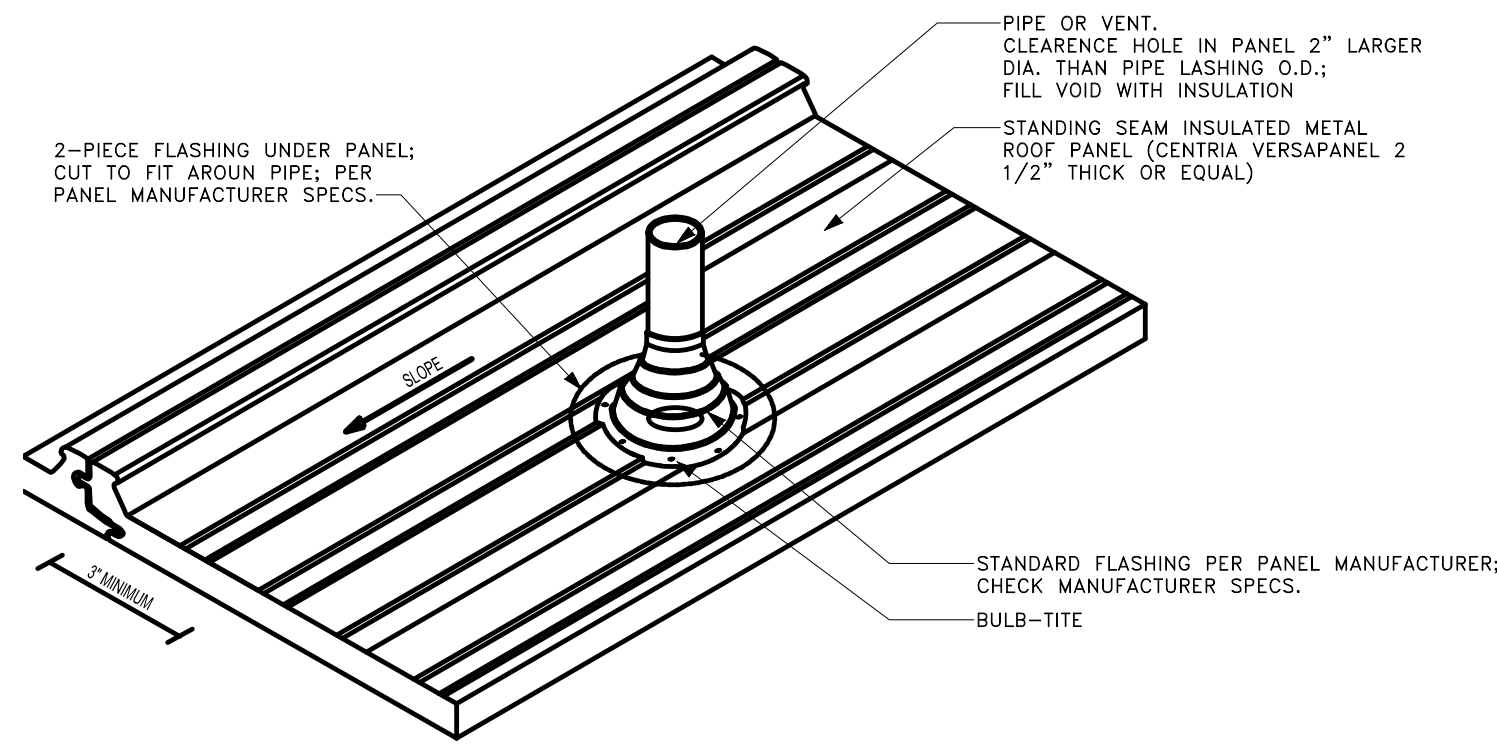
DETAIL 1
ROOF EAVE
OVER CMU WALL
SCALE: 3"=1'-0"



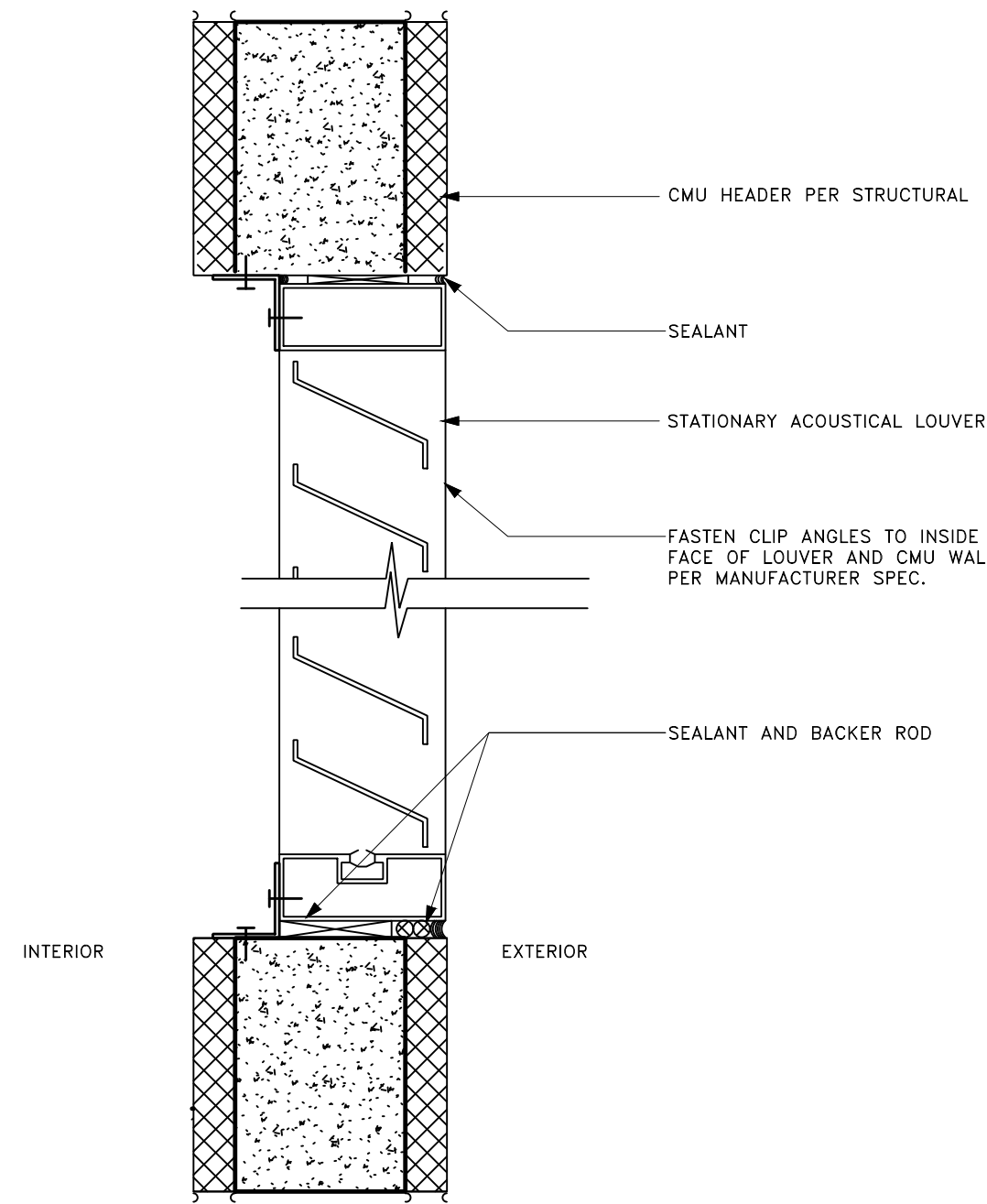
DETAIL 2
RIDGE
DETAIL
SCALE: 3"=1'-0"



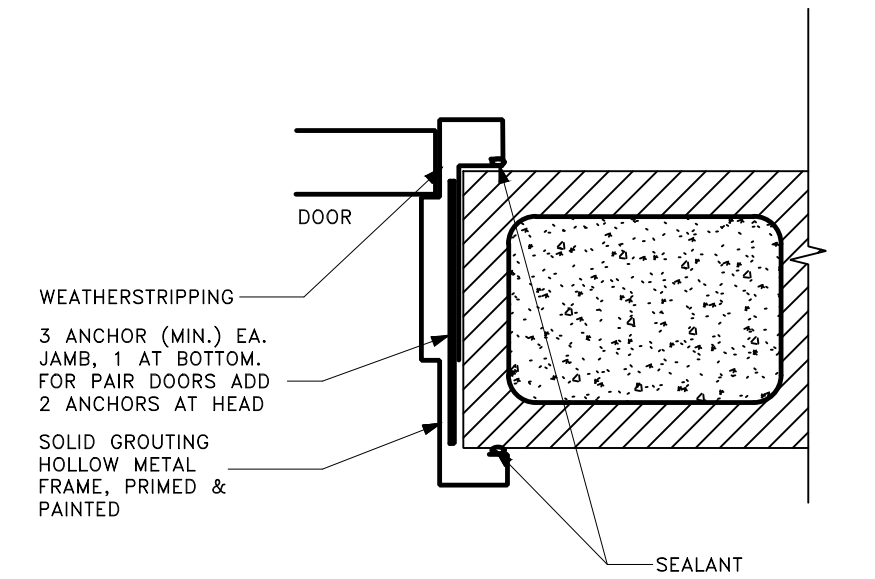
DETAIL 3
ROOF GABLE
AT CMU WALL
SCALE: 3"=1'-0"



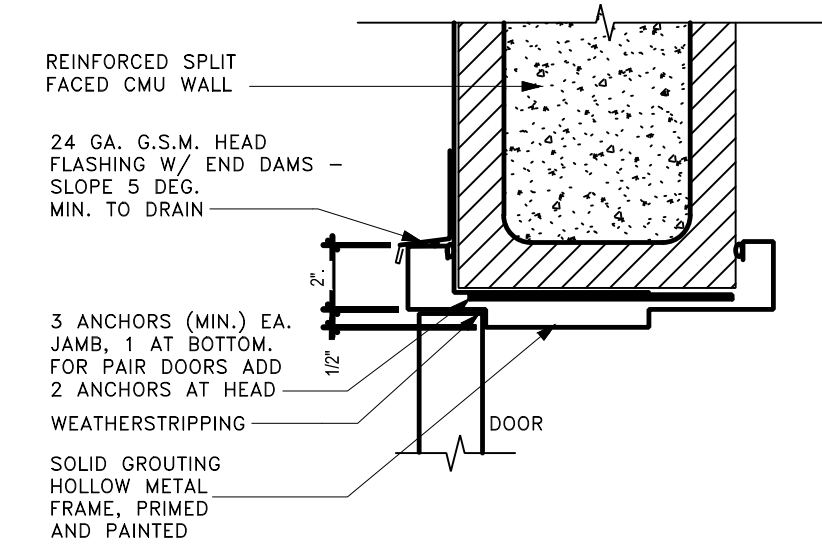
DETAIL 4
ROOF
PENETRATION
SCALE: 3"=1'-0"



DETAIL 5
LOUVER
AT CMU WALL
SCALE: 3"=1'-0"



DETAIL 6
H.M. DOOR JAMB
AT CMU WALL
SCALE: 3"=1'-0"



DETAIL 7
H.M. DOOR HEAD
AT CMU WALL
SCALE: 3"=1'-0"

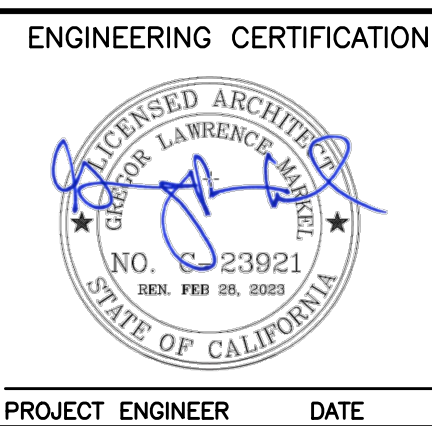
ABBREVIATIONS LIST

DEG. - DEGREES
DIA. - DIAMETER
EA. - EACH
GA. - GALVANIZED
G.S.M. - GALVANIZED SHEET METAL
MIN. - MINIMUM
O.D. - OUTSIDE DIAMETER
SPEC. - SPECIFICATION
S.S.D. - SEE STRUCTURAL DRAWINGS

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES



DATE JULY 2022
DESIGN S. FUJIMURA
DRAWN K. PLATA
CHECKED S. FUJIMURA



PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
CONTROL BUILDING ARCHITECTURAL DETAILS

SCALE AS SHOWN	PROJECT NUMBER 91864009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: A-01 SHEET NUMBER: 63

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1
DOCUMENT NUMBER: C00-E-9248-75906
USERNAME: OsaReyn 1/12/2023 5:58 PM
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ABBREVIATIONS

AF	AMP FRAME	MOV	METAL OXIDE VARISTOR
AFF	ABOVE FINISH FLOOR	MTS	MANUAL TRANSFER SWITCH
AT	AMP TRIP	N	NEUTRAL
BCW	BARE COPPER WIRE	(N)	NEW
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CBL	CABLE	OD	OUTSIDE DIAMETER
CP	CONTROL PANEL	OP	OPERATIONS
CPT	CONTROL POWER TRANSFORMER	OSH	OVERALL SHIELDED
CR	CONTROL RELAY	PB	PULLBOX
DB	DISTRIBUTION BLOCK	PS	POWER SUPPLY
DO	DIGITAL OUTPUT	PNL	PANEL
(E)	EXISTING	PR	PAIR
G	GROUND	PVC	POLYVINYL CHLORIDE
GEC	GROUNDING ELECTRODE CONDUCTOR	PWR	POWER
GRS	GALVANIZED RIGID STEEL CONDUIT	RI	RIGID IRON
H	HOT	SHT	SHEET
JB	JUNCTION BOX	SHTS	SHEETS
LC	LIGHTING CONTACTOR	SHLD	SHIELDED
LCP	LOCAL CONTROL PANEL	SPD	SURGE PROTECTION DEVICE
LV	LOW VOLTAGE	TB	TERMINAL BOX
MCB	MINIATURE CIRCUIT BREAKER	TRD	TRIAD
		UON	UNLESS OTHERWISE NOTED

LEGEND

	NEW UNDERGROUND CIRCUIT WITH DESTINATION INDICATED
	NEW EXPOSED CIRCUIT WITH DESTINATION INDICATED
	NEW CONDUIT IN DUCTBANK, SLAB OR BELOW GRADE
	NEW EXPOSED CONDUIT
	CONDUIT BENDS TOWARD OBSERVER
	CONDUIT BENDS AWAY FROM OBSERVER
	EXISTING EXPOSED CONDUIT
	EXISTING CONDUIT IN DUCTBANK, SLAB OR BELOW GRADE
	CONDUIT STUBBED-OUT AND CAPPED
	FLEXIBLE CONDUIT
	SUBMERSIBLE CABLE

SCHEMATIC SYMBOLS

	MOTOR STARTER—NUMBER INDICATES NEMA SIZE
	MOTOR CIRCUIT PROTECTOR WITH CURRENT RATING
	CIRCUIT BREAKER WITH TRIP RATING AND NUMBER OF POLES INDICATED (3-POLE UNLESS OTHERWISE NOTED)
	TRANSFORMER
	MOTOR—NUMBER INDICATES HORSEPOWER
	LOCATED ON FRONT OF PANEL
	LOCATED IN FIELD
	POWER WIRING TERMINAL
	FIELD WIRING TERMINAL
	PHVOSCP PLC WIRING TERMINAL
	MCP PLC WIRING TERMINATION
	FUSE
	FUSE WITH BLOWN FUSE INDICATOR
	GROUND CONNECTION
	ELAPSED TIME METER
	CONDUCTOR CONNECTED
	CONDUCTOR NOT CONNECTED
	VOLTAGE SURGE SUPPRESSOR
	FIXTURE TYPE (SEE FLIGHTING FIXTURE SCHEDULE) NO. OF FIXTURES (ONE IF UNMARKED) NUMBER OF LAMPS/LAMP WATTAGE MOUNTING ELEVATION (ABOVE FINISHED FLOOR OR GRADE)

	PENDANT OR CEILING MOUNTED LIGHTING FIXTURE
	WALL MOUNTED LIGHTING FIXTURE
	DUAL HEAD EMERGENCY LIGHTING UNIT WITH BATTERY PACK
	EXIT LIGHTING FIXTURE—DARKENED QUADRANT INDICATES ILLUMINATED FACE; ARROW INDICATES DIRECTION
	PENDANT OR CEILING MOUNTED FLUORESCENT LIGHTING FIXTURE
	DISCONNECT SWITCH
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	LOCALLY MTD STARTER OR CONTROLLER
	MOTORIZED VALVE
	TERMINAL BOX
	DUPLEX RECEPTACLE
	SIMPLEX RECEPTACLE
	RECEPTACLE, RATING INDICATED
	JUNCTION BOX
	GROUND ROD IN GROUND WELL
	INDICATES ALL MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE SUITABLE FOR OUTDOOR LOCATION OR WET, CORROSIVE ENVIRONMENT.
	INDICATES ALL EQUIPMENT AND MATERIALS SHALL BE SUITABLE FOR AMBIENT TEMPERATURE OF 50° C.
	CONDUIT SCHEDULE SYMBOL, CONDUIT NUMBER INDICATED
	MATERIALS LIST SYMBOL, ITEM NUMBER INDICATED
	DISTRIBUTION BLOCKS

ELECTRICAL SYMBOLS
SINGLE LINE DIAGRAMS

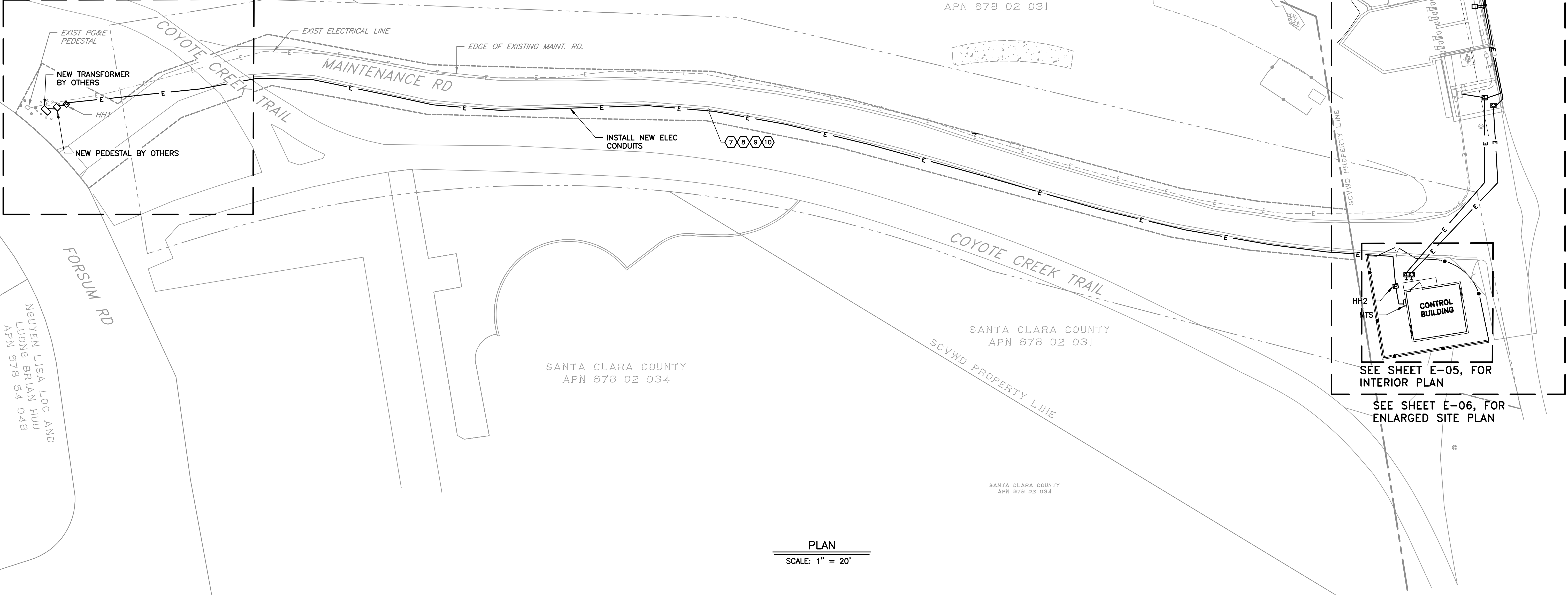
	UTILITY METERING
	GROUND FAULT INTERRUPTER
	CURRENT TRANSFORMER
	POWER TRANSFORMER
	CONTROL TRANSFORMER
	CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE INDICATED
	SOLID-STATE, REDUCED VOLTAGE MOTOR STARTER WITH FULL-SPEED BY-PASS CONTACTOR
	MAGNETIC MOTOR STATER. "1" INDICATES SIZE 1. RV INDICATES REDUCED VOLTAGE. 2S INDICATES 2 SPEED. R INDICATES REVERSING, PW INDICATES PART WINDING.
	COMBINATION MAGNETIC MOTOR STARTER
	MAGNETIC CONTACTOR
	DISCONNECT SWITCH, HEAVY DUTY, RATED 30 AN, 600 VOLT, 3 POLE, NON-FUSED, UNO
	CONTROL STATION. PUSH-BUTTON STATION OR SELECTOR SWITCH. SEE CONTROL WIRING DIAGRAMS FOR REQUIREMENTS
	SAFETY DISCONNECT, FUSED
	AUTOMATIC TRANSFER SWITCH, RATING AS INDICATED.
	STANDBY GENERATOR
	MOTOR, 10 HORSEPOWER
	POWER METER/MONITOR
	CONDUIT NUMBER 12. SEE CONDUIT AND WIRING SCHEDULE FOR SIZES AND QUANTITIES OF CONDUIT AND WIRES.
	GROUND
	LA=LIGHTNING ARRESTER SA=SURGE ARRESTER
	SPECIAL PURPOSE RECEPTACLE, RATING AS INDICATED.
	HASH MARKS INDICATE REMOVAL OR RELOCATION
	INDICATES TO REFER TO NOTE 1 ON DRAWING

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
				1. THIS DRAWING CONTAINS STANDARD SYMBOLS AND ABBREVIATIONS. NOT ALL SYMBOLS AND ABBREVIATIONS SHOWN ARE USED ON THIS PROJECT.	JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT GENERAL NOTES, LEGEND, ABBREVIATIONS AND SYMBOLS	AS SHOWN	91864009
					Z. ZAPIEN				VERIFY SCALES	SHEET CODE:
					DRAWN					E-01
					Z. ZAPIEN				BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER:
					CHECKED					64
					B. MAHER					Attachment 3 64 of 106

USERNAME: RamaSain 1/12/2023 4:59 PM
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DOCUMENT NUMBER: C00-E-9248-75907

SHEET NOTES:
1. CONDUIT AND WIRE SCHEDULE CAN BE FOUND ON SHEET E-09.

SEE SHEET E-03, FOR ENLARGED SITE PLAN



REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
					DESIGN				VERIFY SCALES	SHEET CODE:
					DRAWN					E-02
					Z. ZAPIEN				BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER:
					Z. ZAPIEN			ELECTRICAL PLAN VIEW		65
					CHECKED					Attachment 3
					B. MAHER					65 of 106

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DOCUMENT NUMBER: C00-E-9248-75908

GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY EXISTING BURIED UTILITIES PRIOR TO EXCAVATION.
- CONTRACTOR SHALL COORDINATE DISCONNECTION OF EXISTING SERVICE PEDESTAL AND TIE IN OF NEWLY INSTALLED SERVICE PEDESTAL WITH PG&E.
- CONTRACTOR SHALL COORDINATE ROUGH IN OF ALL NEW ELECTRICAL EQUIPMENT AND INFRASTRUCTURE WITH THE DISTRICT PRIOR TO INSTALLATION.
- ALL SPARE CONDUITS SHALL HAVE PULL ROPES INSTALLED AND CAPPED.
- ALL WORK SHALL COMPLY WITH LATEST VERSION OF THE PG&E GREENBOOK REQUIREMENTS.
- REFER TO SPECIFICATIONS FOR COMPLETE PRODUCT INFORMATION.

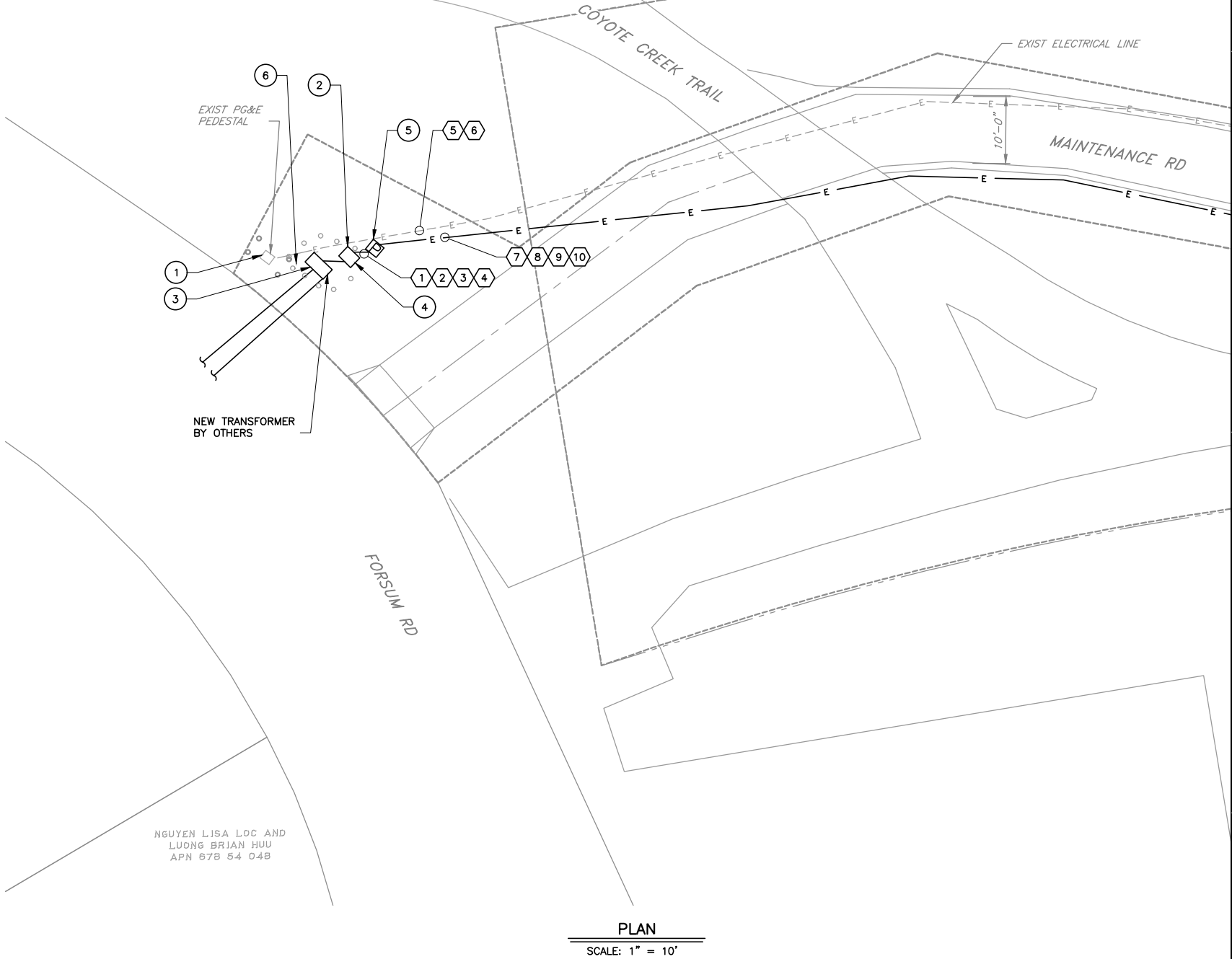
CONTRACTOR NOTES:

- CONTRACTOR SHALL INTERCEPT CONDUITS FROM EXISTING SERVICE PEDESTAL AND ROUTE TO HH1 WITH PULL TAPE. EXISTING CONDUITS TO BE USED FOR SPARES

SHEET NOTES:

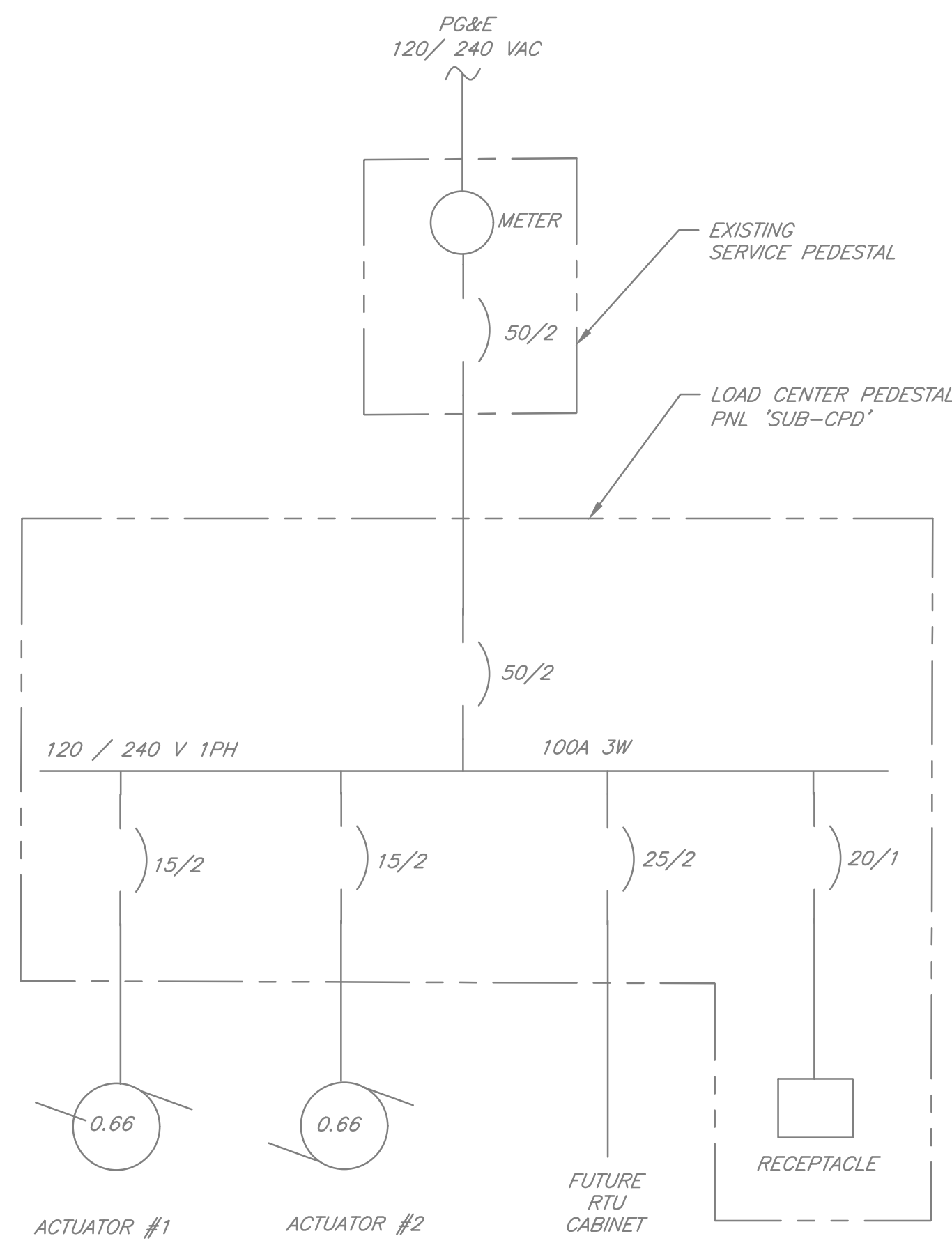
- CONDUIT AND WIRE SCHEDULE CAN BE FOUND ON SHEET E-09.

MATERIAL LIST		
SYMBOL	DESCRIPTION	REMARKS
①	ELECTRICAL SERVICE PEDESTAL	EXISTING, TO BE REMOVED
②	GROUND ROD	NEW, INSTALLED BY OTHERS
③	25/10 KVA TRANSFORMER	NEW, INSTALLED BY PGE
④	ELECTRICAL SERVICE PEDESTAL	NEW, INSTALLED BY OTHERS
⑤	"HH1" ELECTRICAL HANDHOLE	NEW, INSTALLED BY OTHERS
⑥	BOLLARDS	NEW, INSTALLED BY OTHERS

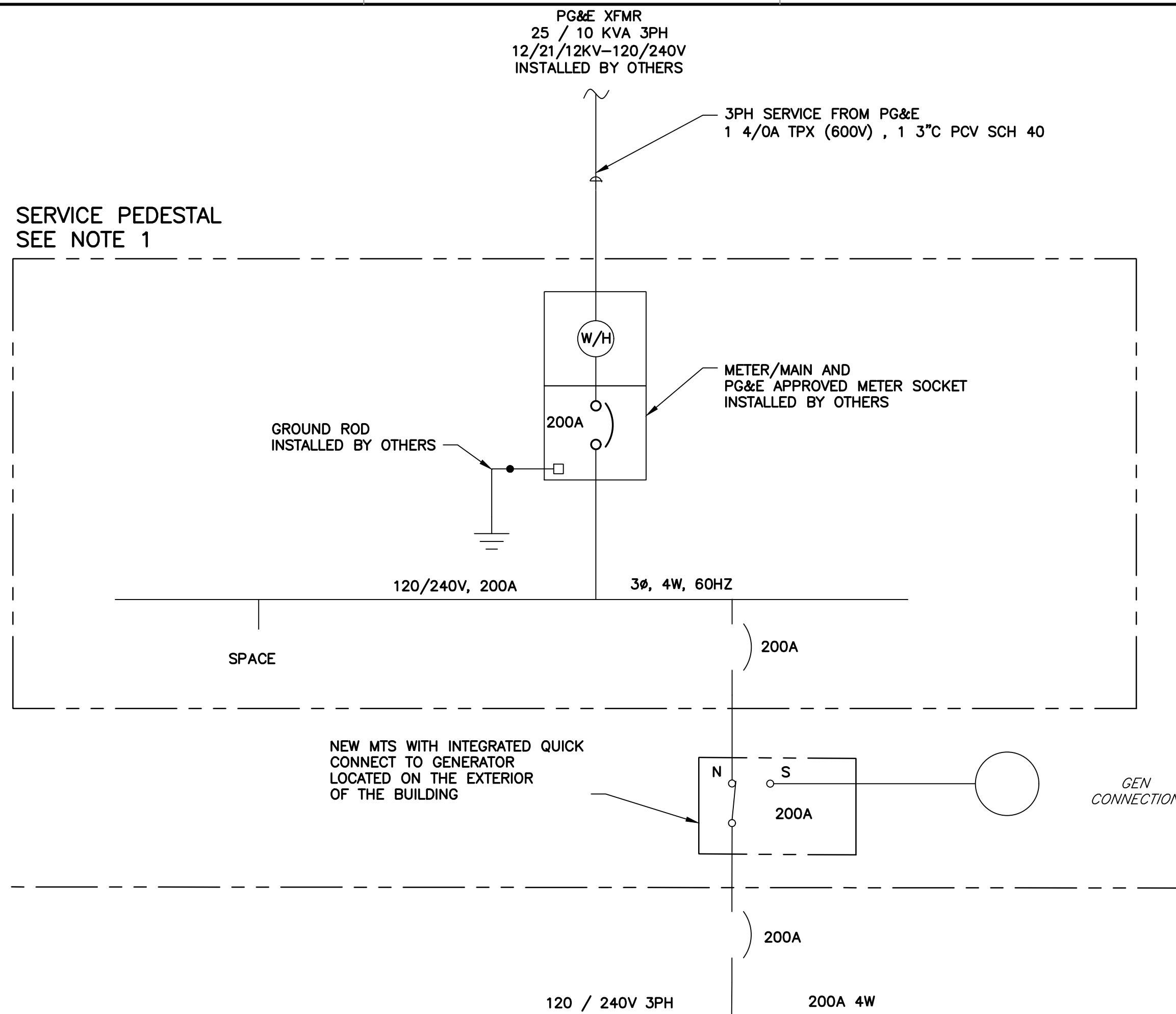
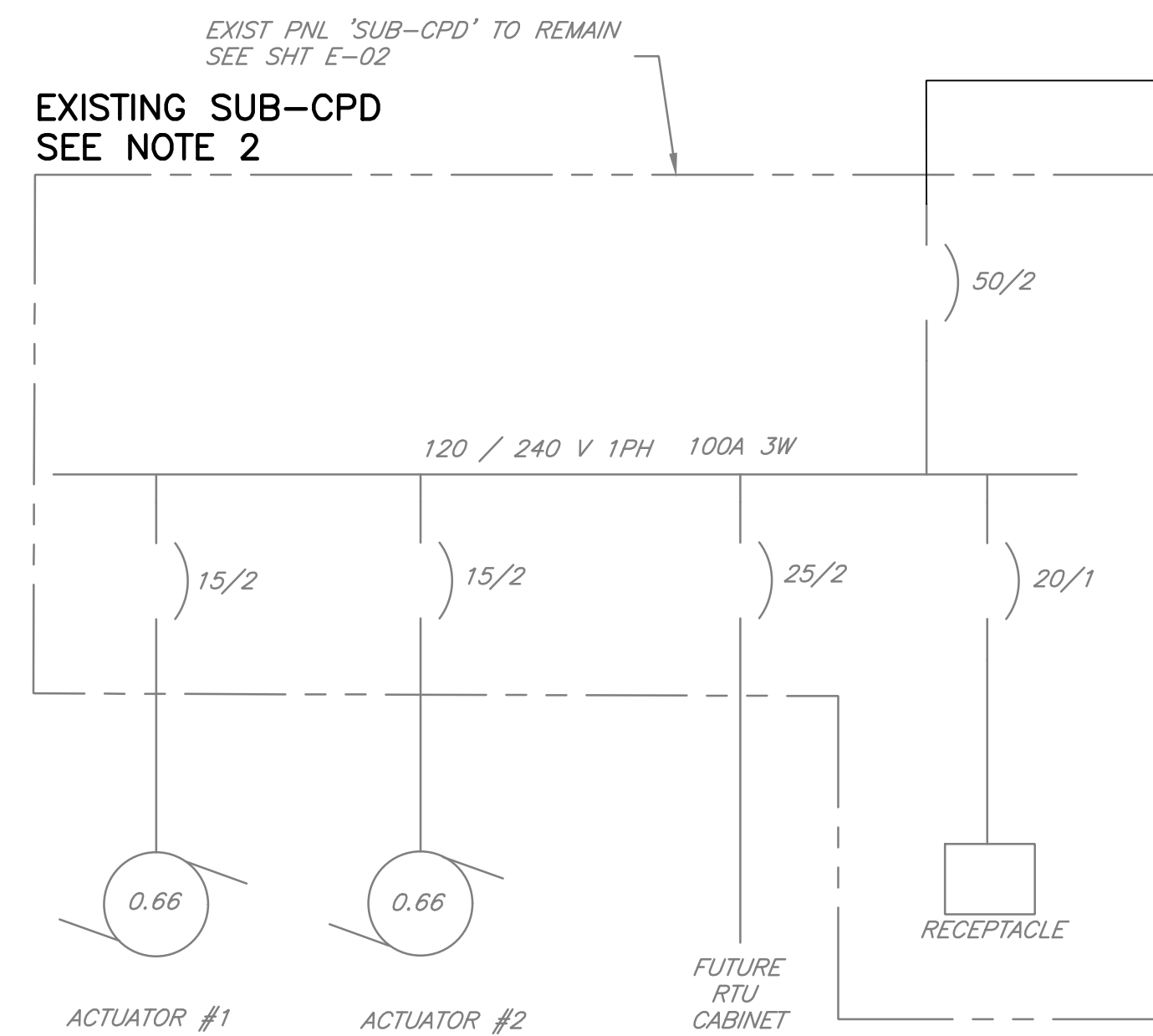


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LUONG BRIAN HUU
APN 078 54 048

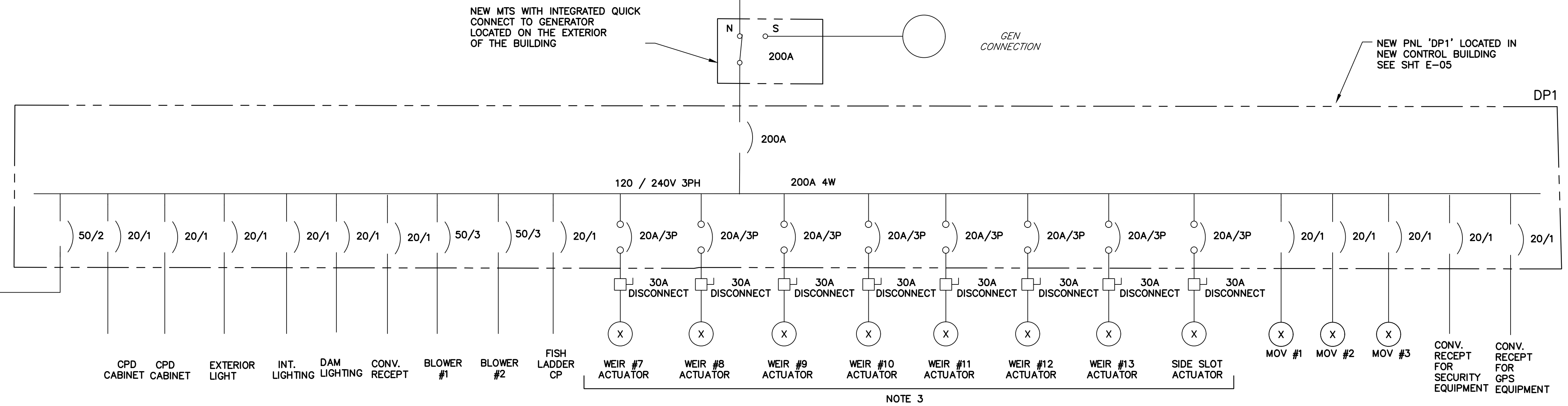
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					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
					DESIGN			ELECTRICAL PLAN VIEW	VERIFY SCALES	SHEET CODE:
					DRAWN				0 1"	E-03
					CHECKED				BAR IS ONE INCH ON ORIGINAL DRAWING	SHEET NUMBER:
					B. MAHER				IF NOT ONE INCH ON ORIGINAL DRAWING, SCALES ACCORDINGLY	66



DETAIL 1 **EXIST SINGLE LINE DIAGRAM**
SCALE: NTS



- NOTES:**
1. NEW METERED PEDESTAL INSTALLED BY OTHERS PRIOR TO CONSTRUCTION PHASE
 2. EXISTING SUB-CPD FEEDER TO BE DISCONNECTED FROM EXISTING PEDESTAL AND REFEED FROM DP1.
 3. ACTUATORS PROVIDED BY OTHERS.



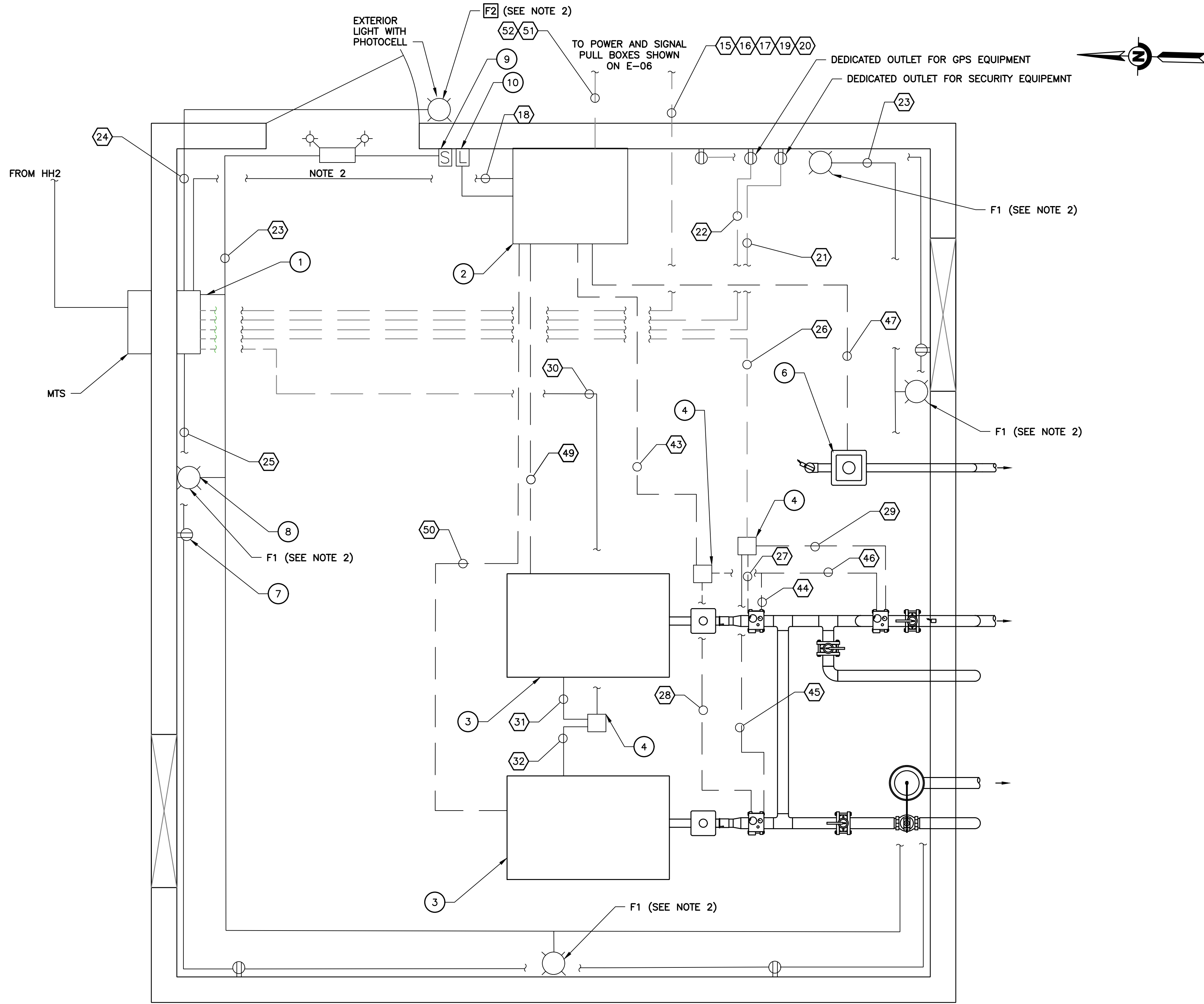
DETAIL 2
— PROPOSED SINGLE LINE DIAGRAM
SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
				1. REFER TO ENLARGED PLANS AND SITE PLANS FOR EQUIPMENT LOCATIONS AND DETAILED ELECTRICAL WORK	JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
					DESIGN Z. ZAPIEN				VERIFY SCALES 0 1"  BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: E-04 SHEET NUMBER: 67
					DRAWN Z. ZAPIEN			ELECTRICAL SINGLE LINE DIAGRAM		
					CHECKED B. MAHER					

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RamaSain

DOCUMENT NUMBER: C00-E-9248-75910



- NOTE:
1. MINIMUM CLEARANCES SHALL BE MAINTAINED AROUND ELECTRICAL EQUIPMENT PER NEC REQUIREMENTS
 2. EMERGENCY LIGHT SHALL HAVE MIN OF 60 MIN. OF RUNTIME ON BATTERY.

- SHEET NOTES:
1. CONDUIT AND WIRE SCHEDULE CAN BE FOUND ON SHEET E-09.
 2. LIGHTING FIXTURE SCHEDULE CAN BE FOUND ON SHEET E-09.

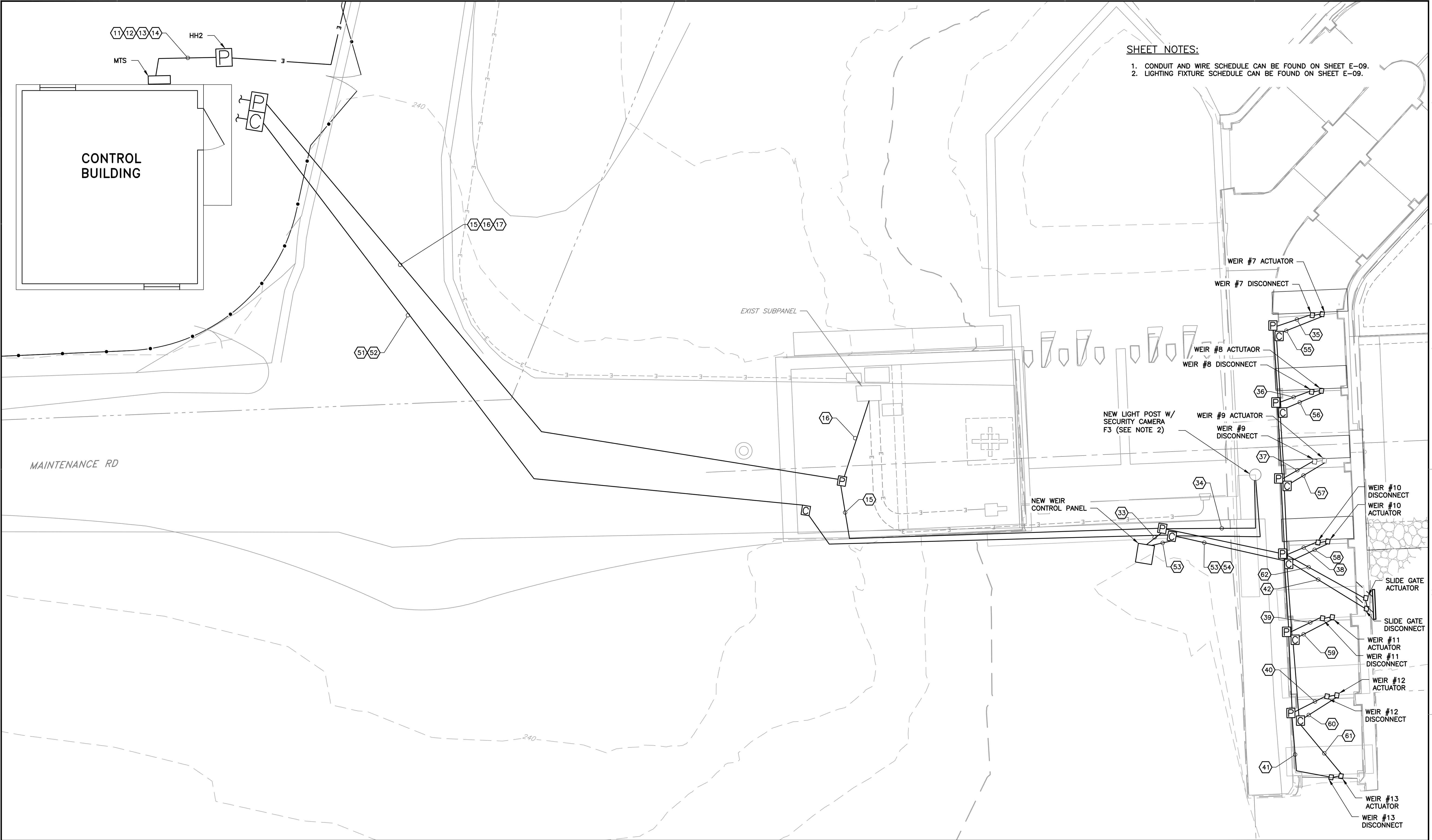
MATERIAL LIST		
SYMBOL	DESCRIPTION	REMARKS
1	PANELBOARD "DP1"	NEW
2	RUBBER DAM CONTROL CABINET "CPD"	NEW
3	15 HP BLOWER PACKAGE SYSTEM	NEW
4	PULLBOX	NEW
5	BLOW OFF TANK	NEW
6	DAM PRESSURE SENSOR	NEW
7	DUPLEX CONV. RECEPTACLE	NEW
8	LIGHT	NEW
9	LIGHT SWITCH	NEW
10	VAULT ENTRY DOOR SWITCH (L)	NEW

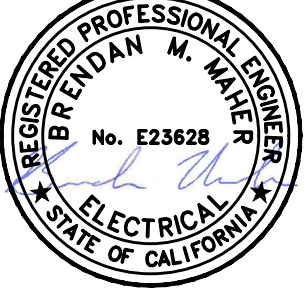
DETAIL 1 CONTROL BUILDING ELECTRICAL PLAN
SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
					DESIGN			CONTROL BUILDING ELECTRICAL PLAN	VERIFY SCALES	SHEET CODE:
					DRAWN				0 1"	E-05
					CHECKED				BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER:
					B. MAHER					68

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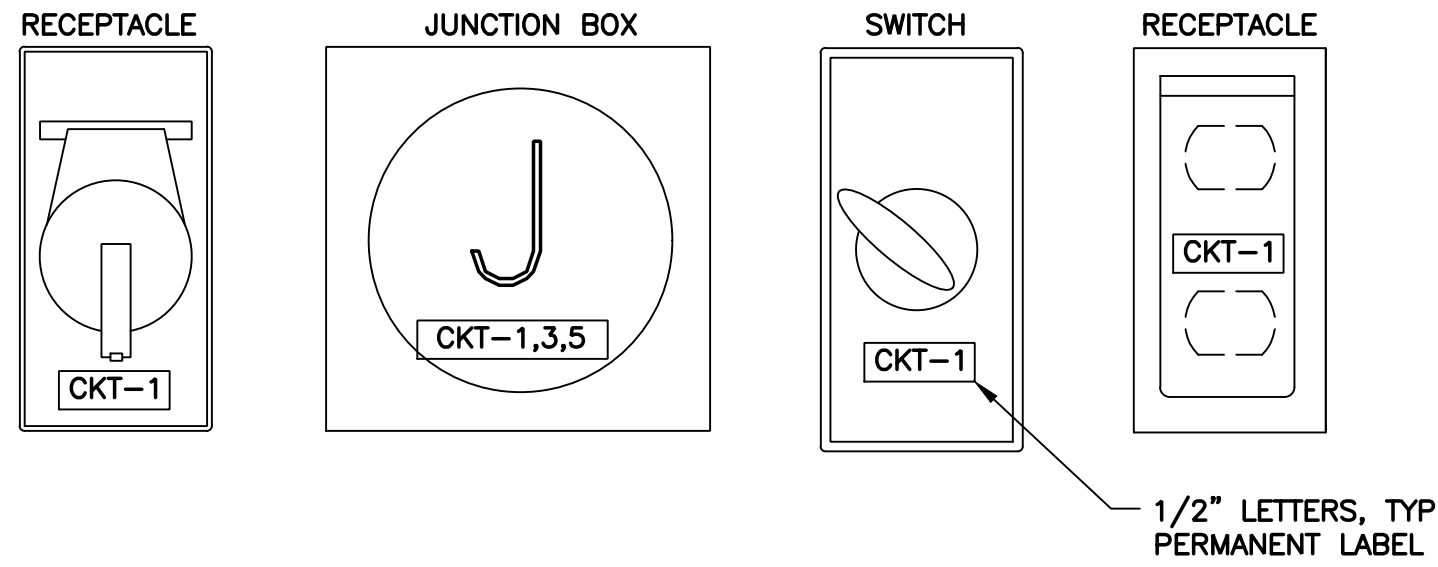
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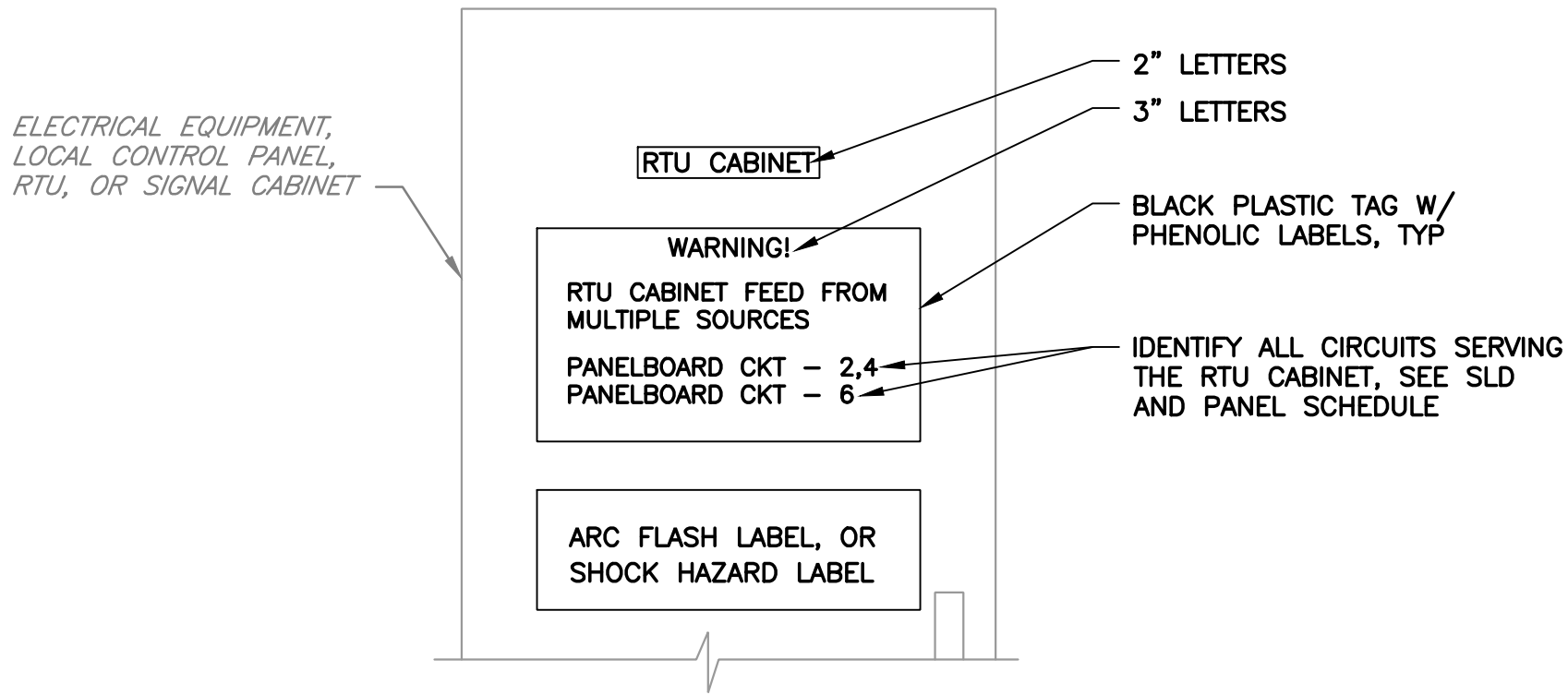
REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT CONTROL BUILDING ELECTRICAL PLAN - ENLARGED	AS SHOWN VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	91864009
										E-06
										SHEET NUMBER: 69

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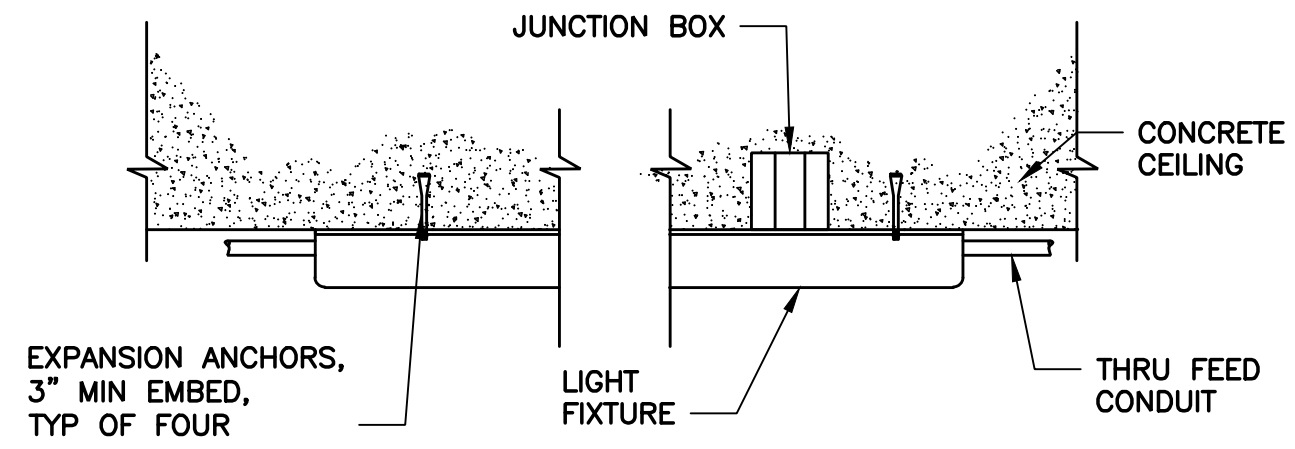
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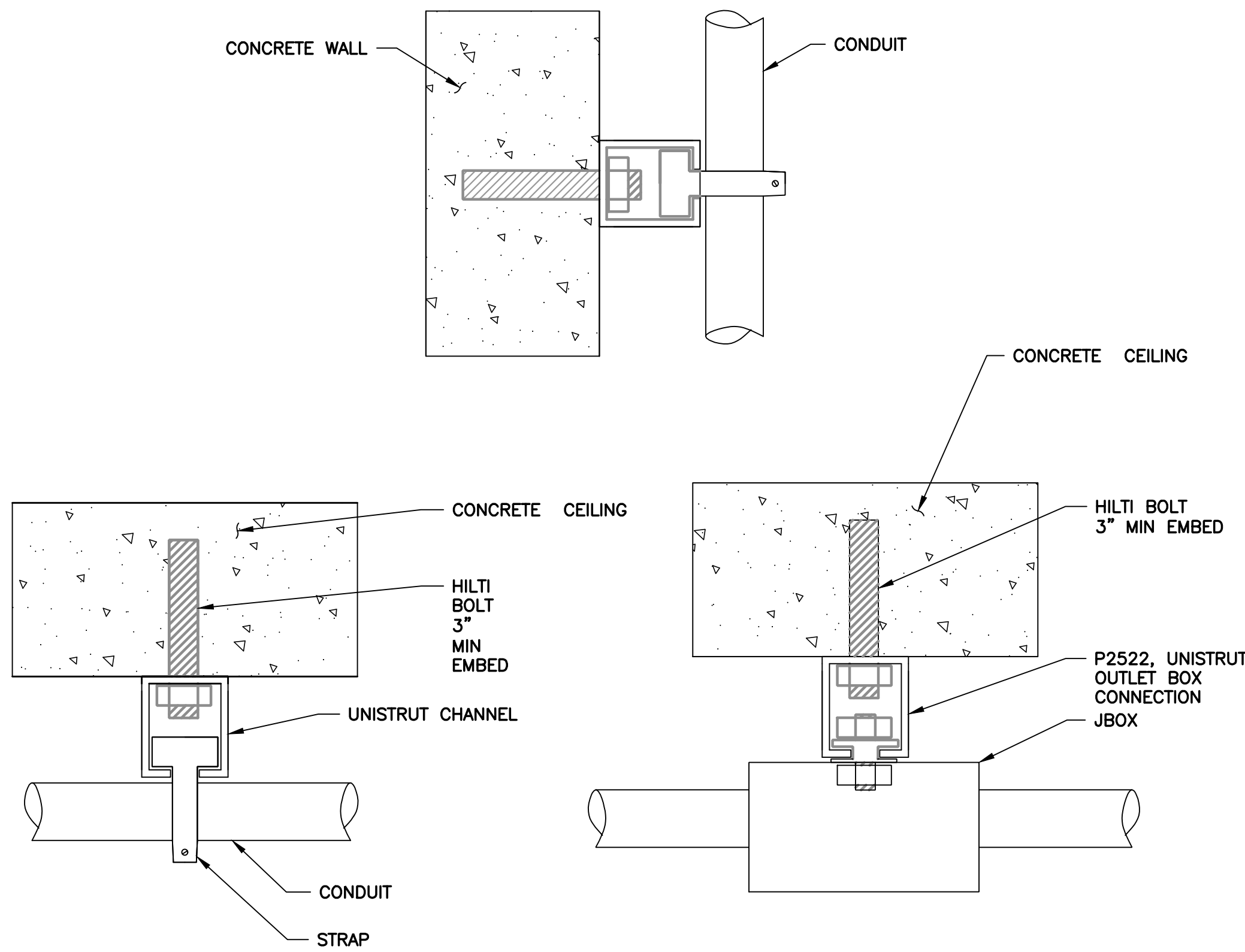
DETAIL 6 WIRING DEVICES
SOURCE LABELING
SCALE: NTS



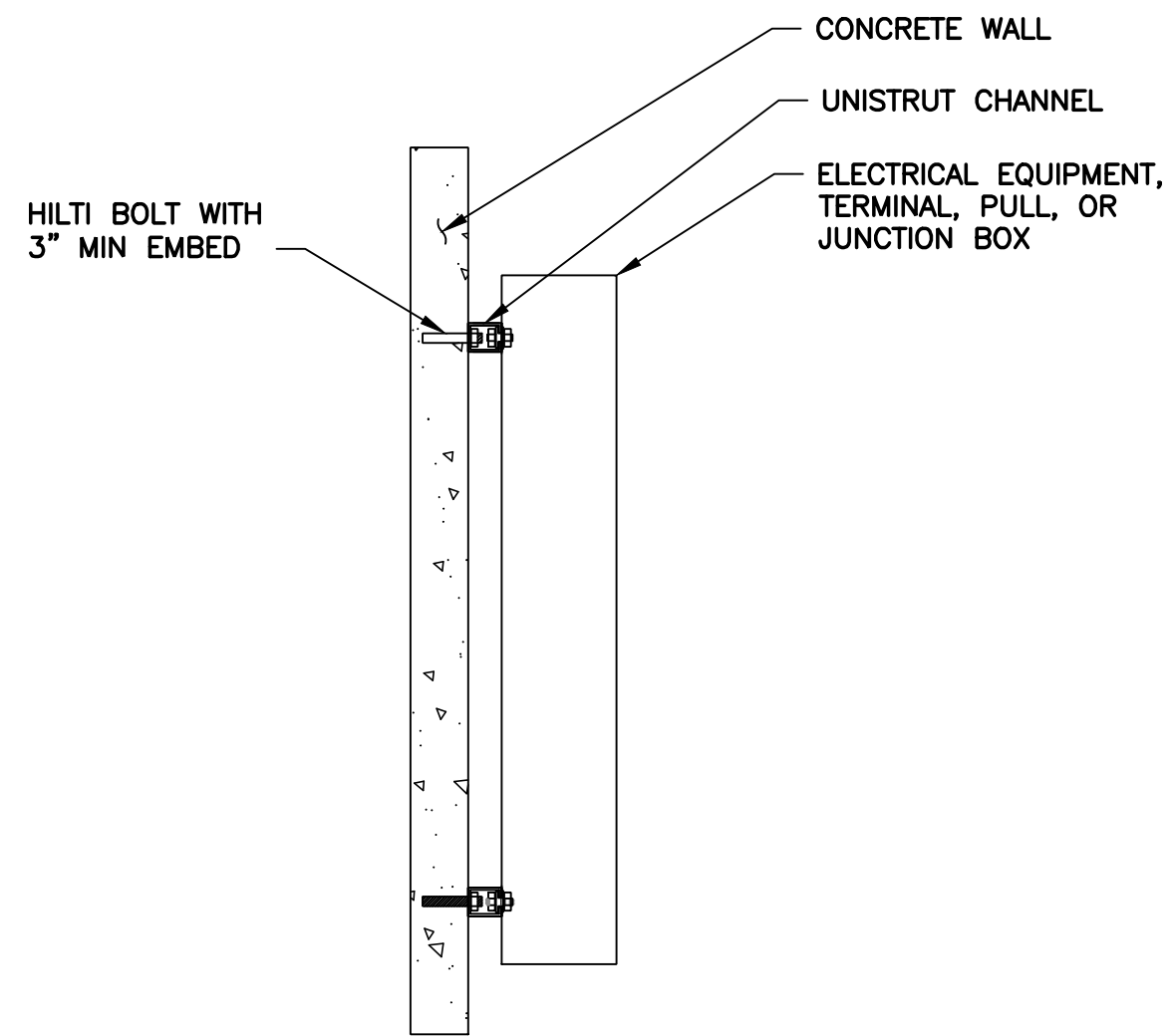
DETAIL 7 RTU CABINET
SOURCE LABELING
SCALE: NTS



DETAIL 8 LIGHTING FIXTURE MOUNTING
SCALE: NTS



DETAIL 9 CONDUIT/BOX SUPPORT
SCALE: NTS



DETAIL 10 ELECTRICAL EQUIPMENT
WALL MOUNTING
SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER	
					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT ELECTRICAL DETAILS, MOUNTING, CONNECTION AND LABELING DETAILS	AS SHOWN	91864009	
					DESIGN				Z. ZAPIEN	VERIFY SCALES	SHEET CODE:
					DRAWN				Z. ZAPIEN	0 1"	E-08
					CHECKED					BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER:
					B. MAHER						71

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DOCUMENT NUMBER: C00-E-9248-75914

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SYMBOL	CONDUIT #	CONDUIT SIZE	TYPE	CIRCUITS	FROM	TO	NOTES
①	PX1	2.5"	PVC	P001	SERVICE PEDESTAL	HH1	NEW
②	PX2	2.5"	PVC	P001	SERVICE PEDESTAL	HH1	NEW
③	PX3	2.5"	PVC	—	SERVICE PEDESTAL	HH1	NEW, PULL ROPE
④	PX4	2.5"	PVC	—	SERVICE PEDESTAL	HH1	NEW, PULL ROPE
⑤	PX5	2"	PVC	—	HH1	—	INTERCEPT OLD CONDUITS ADD PULL ROPE
⑥	PX6	2"	PVC	—	HH1	—	INTERCEPT OLD CONDUITS ADD PULL ROPE
⑦	PX7	2.5"	PVC	P001	HH1	HH2	NEW
⑧	PX8	2.5"	PVC	P001	HH1	HH2	NEW
⑨	PX9	2.5"	PVC	—	HH1	HH2	NEW, PULL ROPE
⑩	PX10	2.5"	PVC	—	HH1	HH2	NEW, PULL ROPE
⑪	PX11	2.5"	PVC	P001	HH2	MTS	NEW
⑫	PX12	2.5"	PVC	P001	HH2	MTS	NEW
⑬	PX13	2.5"	PVC	—	HH2	MTS	NEW, PULL ROPE
⑭	PX14	2.5"	PVC	—	HH2	MTS	NEW, PULL ROPE
⑮	PX15	2"	PVC	P005, P009, P010, P011, P012, P013, P014, P015, P016, P017	DP1	"P" PULL BOX	NEW, THRU "P" PULL BOXES NEAR WEIRS
⑯	PX16	2"	PVC	P023	DP1	"P" PULL BOX	NEW, TO PULL BOX NEAR OLD SUB-CPD
⑰	PX17	2"	PVC	—	DP1	"P" PULL BOX	NEW, PULL ROPE
⑱	PX18	3/4"	RI	P002	DP1	RTU	NEW
⑲	PX19	1"	PVC	P023	"P" J BOX NEAR OLD SUB-CPD	SUB-CPD	NEW
⑳	PX20	1"	PVC	—	"P" J BOX NEAR OLD SUB-CPD	SUB-CPD	NEW, PULL ROPE
㉑	PX21	3/4"	RI	P021	DP1	SECURITY RECEP.	NEW
㉒	PX22	3/4"	RI	P022	DP1	GPS RECEP.	NEW
㉓	PX23	3/4"	RI	P004	DP1	INTERIOR LIGHTS	NEW
㉔	PX24	3/4"	RI	P003	DP1	EXTERIOR LIGHT	NEW
㉕	PX25	3/4"	RI	P006	DP1	CONV. RECEP.	NEW
㉖	PX26	1"	PVC	P018, P019, P020	DP1	J BOX NEAR MOV5	NEW, UNDERGROUND TO JUNCTION BOX NEAR MOV5
㉗	PX27	3/4"	RI	P018	J BOX NEAR MOV5	MOV1	NEW, FROM THE JBOX TO EACH MOV
㉘	PX28	3/4"	RI	P019	J BOX NEAR MOV5	MOV2	NEW, FROM THE JBOX TO EACH MOV
㉙	PX29	3/4"	RI	P020	J BOX NEAR MOV5	MOV2	NEW, FROM THE JBOX TO EACH MOV
㉚	PX30	1"	PVC	P007, P008	DP1	J BOX NEAR BLOWERS	NEW, UNDERGROUND TO J BOX NEAR BLOWERS
㉛	PX31	1"	RI	P007	J BOX NEAR BLOWERS	BLOWER #1	NEW, FROM J BOX TO BLOWER #1
㉜	PX32	1"	RI	P008	J BOX NEAR BLOWERS	BLOWER #2	NEW, FROM J BOX TO BLOWER #2
㉝	PX33	3/4"	RI	P009	J BOX NEAR WEIR CONTROL PANEL	WEIR CONTROL PANEL	NEW, FROM THE JBOX NEAR THE WEIR CONTROL PANEL TO CONTROL PANEL
㉞	PX34	3/4"	RI	P005	J BOX NEAR NEW LIGHT POLE	LIGHT POLE	NEW, FROM JBOX NEAR THE LIGHT POLE TO LOCKABLE LIGHT SWITCH NEAR LIGHT POLE
㉟	PX35	3/4"	RI	P010	"P" J BOX NEAR THE WEIRS	WEIR #7 DISCO.	NEW, FROM JBOX NEAR WEIRS TO WEIR #7 DISCO
㊱	PX36	3/4"	RI	P011	"P" J BOX NEAR THE WEIRS	WEIR #8 DISCO.	NEW, FROM JBOX NEAR WEIRS TO WEIR #8 DISCO
㊲	PX37	3/4"	RI	P012	"P" J BOX NEAR THE WEIRS	WEIR #9 DISCO.	NEW, FROM JBOX NEAR WEIRS TO WEIR #9 DISCO
㊳	PX38	3/4"	RI	P013	"P" J BOX NEAR THE WEIRS	WEIR #10 DISCO.	NEW, FROM JBOX NEAR WEIRS TO WEIR #10 DISCO
㊴	PX39	3/4"	RI	P014	"P" J BOX NEAR THE WEIRS	WEIR #11 DISCO.	NEW, FROM JBOX NEAR WEIRS TO WEIR #11 DISCO
㊵	PX40	3/4"	RI	P015	"P" J BOX NEAR THE WEIRS	WEIR #12 DISCO.	NEW, FROM JBOX NEAR WEIRS TO WEIR #12 DISCO
㊶	PX41	3/4"	RI	P016	"P" J BOX NEAR THE WEIRS	WEIR #13 DISCO.	NEW, FROM JBOX NEAR WEIRS TO WEIR #13 DISCO
㊷	PX42	3/4"	RI	P017	"P" J BOX NEAR THE WEIRS	SIDE SLOT DISCO.	NEW, FROM JBOX NEAR WEIRS TO SIDE SLOT DISCO

SYMBOL	CONDUIT #	CONDUIT SIZE	TYPE	CIRCUITS	FROM	TO	NOTES
⑬	CX1	1"	PVC	C013, C014, C015	CPD	J BOX NEAR MOV5	NEW, UNDERGROUND FROM CPD TO J BOX NEAR MOV5
⑭	CX2	3/4"	RI	C013	CPD	MOV1	NEW, FROM JBOX NEAR MOV5 TO MOV1
⑮	CX3	3/4"	RI	C014	CPD	MOV2	NEW, FROM JBOX NEAR MOV5 TO MOV2
⑯	CX4	3/4"	RI	C015	CPD	MOV3	NEW, FROM JBOX NEAR MOV5 TO MOV3
⑰	CX5	3/4"	RI	C016	CPD	PRESSURE SENSOR #1	NEW
⑱	CX6	3/4"	RI	C017	CPD	PRESSURE SENSOR #2	NEW
⑲	CX7	1"	PVD	C018	CPD	BLOWER #1	NEW, UNDERGROUND FROM CPD TO BLOWER #1
㉑	CX8	1"	PVD	C019	CPD	BLOWER #2	NEW, UNDERGROUND FROM CPD TO BLOWER #2
㉒	CX9	2"	PVC	C009, C010, C011, C012	CPD	"C" PULL BOX	NEW
㉓	CX10	2"	PVC	—	CPD	"C" PULL BOX	NEW, PULL ROPE
㉔	CX11	2"	RI	C001, C002, C003, C004, C005, C006, C007, C008	WEIR CONTROL PANEL	J BOX NEAR WEIRS	NEW
㉕	CX12	2"	RI	—	WEIR CONTROL PANEL	J BOX NEAR WEIRS	NEW, PULL ROPE
㉖	CX13	3/4"	RI	C001	J BOX NEAR WEIRS	WEIR #7 MOV	NEW
㉗	CX14	3/4"	RI	C002	J BOX NEAR WEIRS	WEIR #8 MOV	NEW
㉘	CX15	3/4"	RI	C003	J BOX NEAR WEIRS	WEIR #9 MOV	NEW
㉙	CX16	3/4"	RI	C004	J BOX NEAR WEIRS	WEIR #10 MOV	NEW
㉚	CX17	3/4"	RI	C005	J BOX NEAR WEIRS	WEIR #11 MOV	NEW
㉛	CX18	3/4"	RI	C006	J BOX NEAR WEIRS	WEIR #12 MOV	NEW
㉜	CX19	3/4"	RI	C007	J BOX NEAR WEIRS	WEIR #13 MOV	NEW
㉝	CX20	3/4"	RI	C008	J BOX NEAR WEIRS	SIDE SLOW MOV	NEW
㉞	CX21	3/4"	RI	C011	J BOX NEAR WEIRS	LEVEL TRANSMITTER	NEW
㉟	CX22	3/4"	RI	C012	J BOX NEAR WEIRS	LEVEL TRANSMITTER	NEW
㊱	CX23	3/4"	RI	C020	CPD	DOOR SWITCH	NEW

CIRCUIT ID	# OF CONDUCTORS	FROM	TO	NOTES
P001	6 4/0, 2#2G XHHN	SERVICE PEDESTAL	MTS	PARALLEL RUN
P002	2 #12, 2#8G XHHN	DP1	CPD	
P003	2 #10, 1#8G XHHN	DP1	EXTERIOR LIGHT	
P004	2#10, 1#8G XHHN	DP1	INTERIOR LIGHTING	
P005	2#10, 1#8G XHHN	DP1	DAM LIGHTING	
P006	2#10, 1#8G XHHN	DP1	CONV. RECEP.	
P007	3#6, 1#8G XHHN	DP1	BLOWER #1	
P008	3#6, 1#8G XHHN	DP1	BLOWER #2	
P009	2#10, 1#8G XHHN	DP1	FISH LADDER CP	
P010	3#10, 1#8G XHHN	DP1	WEIR #7	
P011	3#10, 1#8G XHHN	DP1	WEIR #8	
P012	3#10, 1#8G XHHN	DP1	WEIR #9	
P013	3#10, 1#8G XHHN	DP1	WEIR #10	
P014	3#10, 1#8G XHHN	DP1	WEIR #11	
P015	3#10, 1#8G XHHN	DP1	WEIR #12	
P016	3#10, 1#8G XHHN	DP1	WEIR #13	
P017	3#10, 1#8G XHHN	DP1	SIDE SLOT	
P018	2#10, 1#8G XHHN	DP1	MOV #1	
P019	2#10, 1#8G XHHN	DP1	MOV #2	
P020	2#10, 1#8G XHHN	DP1	MOV #3	
P021	2#10, 1#8G XHHN	DP1	SECURITY RECEP.	
P022	2#10, 1#8G XHHN	DP1	GPS RECEP.	
P023	3#6, 1#8G XHHN	DP1	OLD SUB-CPD	TO BE RUN IN ITS OWN CONDUIT FROM DP1 TO SUB-CPD

CIRCUIT ID	# OF CONDUCTORS	FROM	TO	NOTES
C001	10#14 XHHN	FISH LADDER CP	WEIR #7	
C002	10#14 XHHN	FISH LADDER CP	WEIR #8	
C003	10#14 XHHN	FISH LADDER CP	WEIR #9	
C004	10#14 XHHN	FISH LADDER CP	WEIR #10	
C005	10#14 XHHN, 1TSP	FISH LADDER CP	WEIR #11	
C006	10#14 XHHN, 1TSP	FISH LADDER CP	WEIR #12	
C007	10#14 XHHN, 1TSP	FISH LADDER CP	WEIR #13	
C008	10#14 XHHN	FISH LADDER CP	SIDE SLOT	
C009	CAT 6	CPD	SECURITY CAMERA NEAR DAM	
C010	CAT 6	CPD	BUILDING EXTERIOR SECURITY CAMERA	
C011	1TSP	CPD	LEVEL TRANSMITTER	
C012	1TSP	CPD	LEVEL TRANSMITTER	
C013		CPD	MOV1	
C014		CPD	MOV2	
C015		CPD	MOV3	
C016		CPD	PRESSURE SENSOR #1	
C017		CPD	PRESSURE SENSOR #2	
C018		CPD	BLOWER #1	
C019		CPD	BLOWER #2	
C020	2#14	CPD	DOOR SWITCH	

LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION	LAMPS	VOLTS	MANUFACTURER
F1	SURFACE MOUNT 4' ENCLOSED AND GASKETED LED FIXTURE WITH INTEGRATED OCCUPANCY SENSOR, 5782 LUMENS, 60,000 HRS, L80, 5-YEAR WARRANTY, WET LOCATION LISTED	LED 38W 3500K 80CRI	120/277	LITHONIA # FEM-L48-6000LM-LPACL-MD -MVOL-35K-SBOR10 OR APPROVED ALTERNATIVE
F2	WALL MOUNTED LED FIXTURE. WET LOCATION LISTED. 2980 LUMENS WITH INTEGRATED PHOTO CELL	LED 23W 4000K	120/277	LITHONIA # WDGE2 LED P3 40K VF MVOLT SRM BBW PE OR APPROVED ALTERNATIVE
F3	POLE MOUNTABLE 450W 3-HEADED LED FLOOD LIGHT, 5000K IP65 RATED	LED 450W 5000K	120/277	STASUN #ST-TING-I956 OR APPROVED ALTERNATIVE

2

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
					JAN 2023		
					DESIGN		
					K. TRAN		
					DRAWN		
					K. TRAN		
					CHECKED		
					B. MAHER		

PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT		SCALE AS SHOWN	PROJECT NUMBER 91864009
CONDUIT, WIRE, AND LIGHTING SCHEDULE		VERIFY SCALES  0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: E-09 SHEET NUMBER: 72

1

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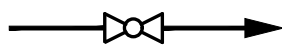
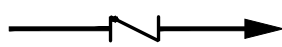
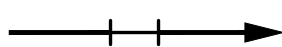
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INSTRUMENT IDENTIFICATION TABLE
ISA-S5.1-1984

LETTER	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS (2)		ALARM		
B	BURNER, COMBUSTION			CLOSE, STOP, DECREASE (1)	
C				CONTROL	
D		DIFFERENTIAL		OPEN, START, INCREASE (1)	
E	VOLTAGE		SENSOR (PRIMARY ELEMENT)		
F	FLOW RATE	RATIO (FRACTION)			FAIL (1)
G			GLASS, VIEWING DEVICE		
H	HAND				HIGH (OPENED)
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW (CLOSED)
M	MOTOR, MOTION (1)	MOMENTARY		MOTOR (1)	MIDDLE OR INTERMEDIATE ON OR OPERATE (1)
N					OVERLOAD (1)
O			ORIFICE, RESTRICTION		
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION	PUMP (1)	
Q	QUANTITY (2)	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE (2)		MULTIFUNCTION (2)	MULTIFUNCTION (2)	MULTIFUNCTION (2)
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED (2)		UNCLASSIFIED (2)	UNCLASSIFIED (2)	UNCLASSIFIED (2)
Y	EVENT, STATE, PRESENCE			RELAY, COMPUTE, CONVERT	
Z	POSITION, DIMENSION			DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

(1) USER'S CHOICE (2) WHEN USED, SYMBOL OR SIGNAL LINE IS ANNOTATED.

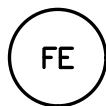
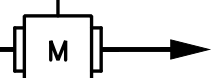
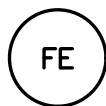
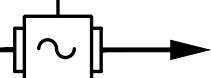
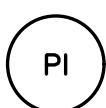
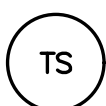
VALVE AND GATE SYMBOLS

	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	CONE VALVE
	FLANGED SPOOL INSERT
	GATE VALVE
	GLOBE VALVE
	PLUNGER VALVE
	REDUCER/INCREASER
	PRESSURE RELIEF VALVE

EQUIPMENT SYMBOLS

	PUMP
	BLOWER
	MOTOR
	AIR FILTER

PRIMARY ELEMENT SYMBOLS

	
	MAGNETIC FLOWMETER
	
	ULTRASONIC FLOWMETER
	
	FLOW INDICATING TRANSMITTER
	
	PRESSURE GAUGE
	
	PRESSURE INDICATING TRANSMITTER
	
	TEMPERATURE SWITCH

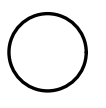
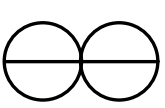
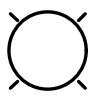
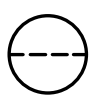
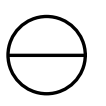
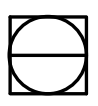
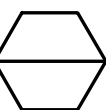
INSTRUMENT LINE SYMBOLS

-----	ELECTRICAL SIGNAL
-o-o-o-o-o-	SOFTWARE OR DATA LINK
-----	INSTRUMENT SUPPLY OR CONNECTION TO PROCESS
◐-----◑	FIBER OPTIC CABLE AND CONNECTORS

INPUT AND OUTPUT SIGNALS CONNECTED TO PLC

YY ▲ └─┘	ANALOG INPUT	YY ▼ └─┘	ANALOG MODULATING OUTPUT
YY △ └─┘	DIGITAL INPUT	MID ▲ └─┘	PULSE INPUT
		YY ▽ └─┘	CONTROL OUTPUT

INSTRUMENT AND FUNCTION SYMBOLS

	FIELD MOUNTED		INSTRUMENTS SHARING COMMON HOUSING
	PILOT LIGHT		INTERIOR OF PANEL MOUNTED
	FACE OF PANEL MOUNTED		OIT DISPLAY
	PLC CONTROLLED FUNCTION		

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE JAN 2023	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN B. CHEN		
DRAWN J. CORDOVA		
CHECKED J. REID		
PROJECT ENGINEER		

PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	SCALE AS SHOWN 	PROJECT NUMBER 91864009
P&ID LEGENDS AND NOTES	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: I-01 SHEET NUMBER: 73

4

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2

DOCUMENT NUMBER: C00-I-9248-75916

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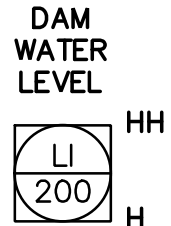
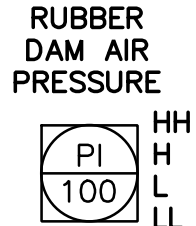
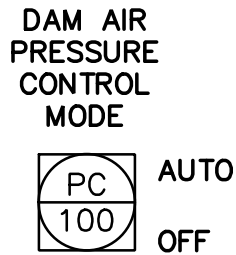
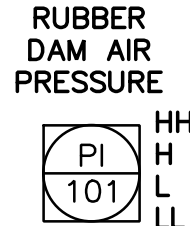
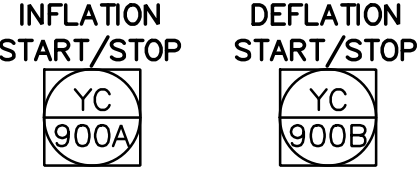
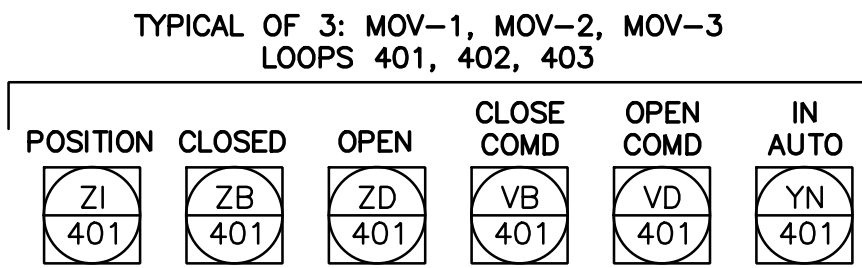
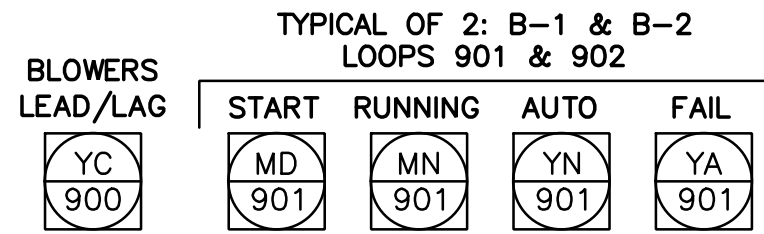
CONDUCTORS			SWITCHES			LIMIT SWITCHES (CONTINUED)			PILOT LIGHTS (CONTINUED)			MISCELLANEOUS			
	CONDUCTOR			DESCRIPTION TEXT (EXAMPLE: LAMP TEST) NORMALLY OPEN NEMA FORM "X" CONTACT PUSHBUTTON			NORMALLY OPEN HELD CLOSED			PUSH TO TEST PILOT LIGHT COLOR: RED			CIRCUIT BREAKER WITH AMPERAGE		
	CONDUCTORS NOT CONNECTED			NORMALLY CLOSED NEMA FORM "Y" CONTACT PUSHBUTTON			NORMALLY CLOSED HELD OPEN		COIL CONTACTS						
	CONDUCTORS CONNECTED			NORMALLY CLOSED MUSHROOM HEAD E-STOP		PROCESS SWITCHES				NORMALLY OPEN CONTACT NEMA FORM "A" CONTACT			FUSE WITH AMPERAGE		
	CONDUCTOR SHIELD			MECHANICAL CONNECTION			TORQUE SWITCH NORMALLY OPEN CLOSE ON INCREASE TORQUE			NORMALLY CLOSED CONTACT NEMA FORM "B" CONTACT			AUDIBLE DEVICE		
	FIELD CONDUCTOR			TWO POSITION SELECTOR SWITCH SHOWN IN 'POS1'			TORQUE SWITCH NORMALLY CLOSED OPEN ON INCREASE TORQUE			NORMALLY OPEN WITH NORMALLY CLOSED CONTACT NEMA FORM "C" CONTACTS			ELAPSED TIME METER		
	EARTH GROUND			CONTACT MADE IN 'POS2'			LIQUID LEVEL SWITCH NORMALLY OPEN CLOSE ON RISE			NORMALLY OPEN CONTACT NEMA FORM "A" CONTACT WITH TERMINALS			RESISTOR 250 OHM		
	CHASSIS GROUND			CONTACT MADE IN 'POS3'			LIQUID LEVEL SWITCH NORMALLY CLOSED OPEN ON RISE			NORMALLY CLOSED CONTACT NEMA FORM "B" CONTACT WITH TERMINALS			RECTIFIER, DIODE		
	SHIELD GROUND (ISOLATED IF REQUIRED BY SPEC)			THREE POSITION SELECTOR SWITCH SHOWN IN 'POS1' POSITION NEMA FORM "Z" CONTACTS			FLOW SWITCH NORMALLY OPEN CLOSE ON INCREASE FLOW			NORMALLY OPEN CONTACT ON DELAY			TRANSFORMER SECONDARY VOLTAGE AND RATING INDICATED AS APPLICABLE		
TERMINALS				CONTACT MADE IN 'POS3'			FLOW SWITCH NORMALLY CLOSED OPEN ON INCREASE FLOW			NORMALLY CLOSED CONTACT ON DELAY					
	FEED THROUGH TERMINAL BLOCK			CONTACT MADE IN 'POS3'			FLOW SWITCH NORMALLY CLOSED OPEN ON INCREASE FLOW			NORMALLY OPEN CONTACT OFF DELAY					
	KNIFE DISCONNECT TERMINAL BLOCK			CONTACT MADE IN 'POS3'			FLOW SWITCH NORMALLY CLOSED OPEN ON INCREASE FLOW			NORMALLY CLOSED CONTACT OFF DELAY					
	EXTERNALLY LOCATED DEVICE TERMINAL BLOCK			THREE POSITION SELECTOR SPRING RETURN TO POS2			TEMPERATURE SWITCH NORMALLY OPEN CLOSE ON RISE			LIGHT EMITTING DIODE					
	FUSE BLOCK			THREE POSITION SELECTOR SPRING RETURN TO POS2			TEMPERATURE SWITCH NORMALLY CLOSED OPEN ON RISE			PHOTO RECEPTIVE DIODE					
RELAY COILS			LIMIT SWITCHES			PILOT LIGHTS			LINE REFERENCING KEY CODE			PLC I/O POINT			
	DEVICE ID CONTROL RELAY WITH TERMINALS			NORMALLY OPEN			PILOT LIGHT COLOR: AMBER		TO/FROM LINE REFERENCING: E-XXX-XX LINE NUMBER SHEET CODE NUMBER EXAMPLE: TO: E-101-30 COIL CONTACT REFERENCING: E-XXX-XX LAST TWO DIGITS = LINE NUMBER SHEET CODE NUMBER NOTE: UNDERLINE NUMBERS REPRESENTS N.C. CONTACTS FORM "A" OR "X" CONTACT: E-XXX-XX FORM "B" OR "Y" CONTACT: <u>E-XXX-XX</u> FORM "C" OR "Z" CONTACTS: E-XXX-XX, <u>E-XXX-XX</u>						PLC ANALOG INPUT POINT
	MOTOR STARTER			NORMALLY OPEN			PILOT LIGHT COLOR: AMBER		TO/FROM LINE REFERENCING: E-XXX-XX LINE NUMBER SHEET CODE NUMBER EXAMPLE: TO: E-101-30 COIL CONTACT REFERENCING: E-XXX-XX LAST TWO DIGITS = LINE NUMBER SHEET CODE NUMBER NOTE: UNDERLINE NUMBERS REPRESENTS N.C. CONTACTS FORM "A" OR "X" CONTACT: E-XXX-XX FORM "B" OR "Y" CONTACT: <u>E-XXX-XX</u> FORM "C" OR "Z" CONTACTS: E-XXX-XX, <u>E-XXX-XX</u>						PLC DIGITAL INPUT POINT
	ELECTRIC TIMER WITH ADJUSTABLE TIMING RANGE			NORMALLY OPEN			PILOT LIGHT COLOR: AMBER		TO/FROM LINE REFERENCING: E-XXX-XX LINE NUMBER SHEET CODE NUMBER EXAMPLE: TO: E-101-30 COIL CONTACT REFERENCING: E-XXX-XX LAST TWO DIGITS = LINE NUMBER SHEET CODE NUMBER NOTE: UNDERLINE NUMBERS REPRESENTS N.C. CONTACTS FORM "A" OR "X" CONTACT: E-XXX-XX FORM "B" OR "Y" CONTACT: <u>E-XXX-XX</u> FORM "C" OR "Z" CONTACTS: E-XXX-XX, <u>E-XXX-XX</u>						PLC DIGITAL INPUT POINT
	SOLENOID			NORMALLY OPEN			PILOT LIGHT COLOR: AMBER		TO/FROM LINE REFERENCING: E-XXX-XX LINE NUMBER SHEET CODE NUMBER EXAMPLE: TO: E-101-30 COIL CONTACT REFERENCING: E-XXX-XX LAST TWO DIGITS = LINE NUMBER SHEET CODE NUMBER NOTE: UNDERLINE NUMBERS REPRESENTS N.C. CONTACTS FORM "A" OR "X" CONTACT: E-XXX-XX FORM "B" OR "Y" CONTACT: <u>E-XXX-XX</u> FORM "C" OR "Z" CONTACTS: E-XXX-XX, <u>E-XXX-XX</u>						PLC DIGITAL INPUT POINT
	THERMAL OVERLOAD			NORMALLY OPEN			PILOT LIGHT COLOR: AMBER		TO/FROM LINE REFERENCING: E-XXX-XX LINE NUMBER SHEET CODE NUMBER EXAMPLE: TO: E-101-30 COIL CONTACT REFERENCING: E-XXX-XX LAST TWO DIGITS = LINE NUMBER SHEET CODE NUMBER NOTE: UNDERLINE NUMBERS REPRESENTS N.C. CONTACTS FORM "A" OR "X" CONTACT: E-XXX-XX FORM "B" OR "Y" CONTACT: <u>E-XXX-XX</u> FORM "C" OR "Z" CONTACTS: E-XXX-XX, <u>E-XXX-XX</u>						PLC DIGITAL INPUT POINT
REV			DESCRIPTION			DATE			PROJECT NAME AND SHEET DESCRIPTION:			SCALE			
						JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT			AS SHOWN			
						DESIGN						VERIFY SCALES			
						B. CHEN						0 1"			
						DRAWN						BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY			
						J. CORDOVA									
						CHECKED									
						J. REID									
						PROJECT ENGINEER									
						DATE									

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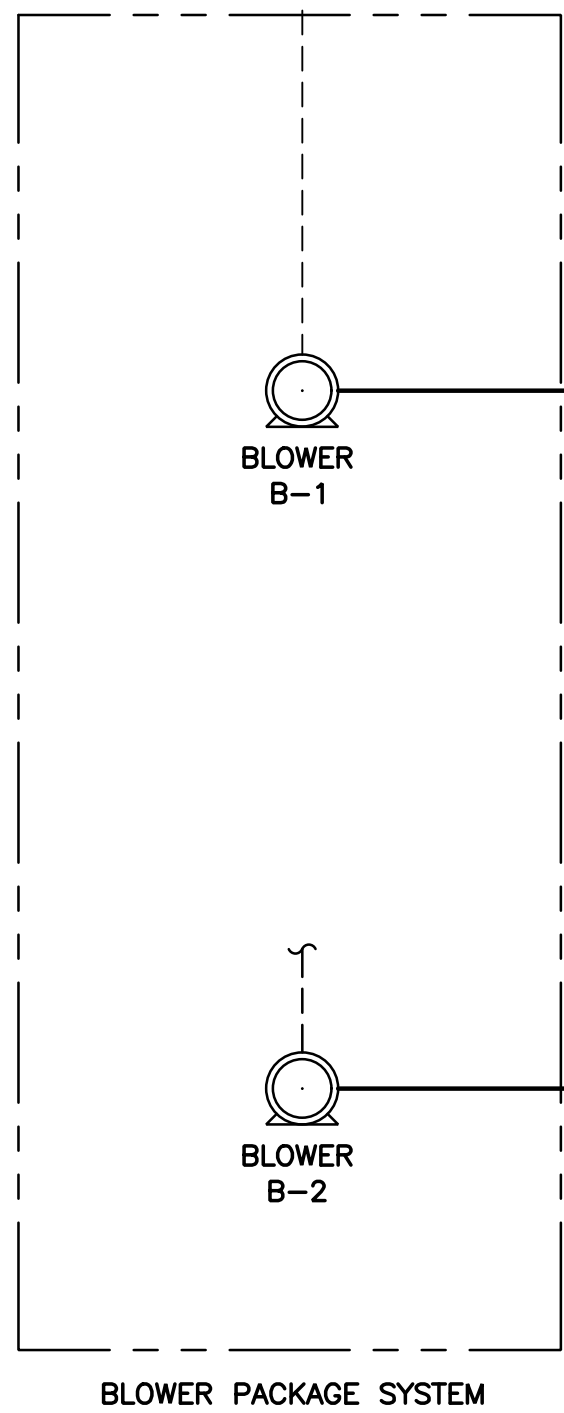
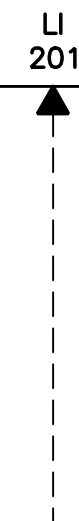
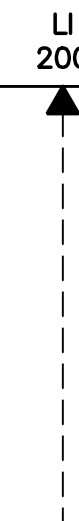
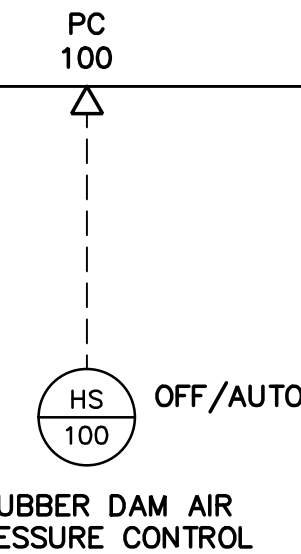
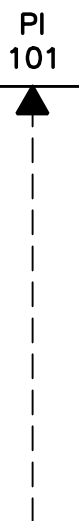
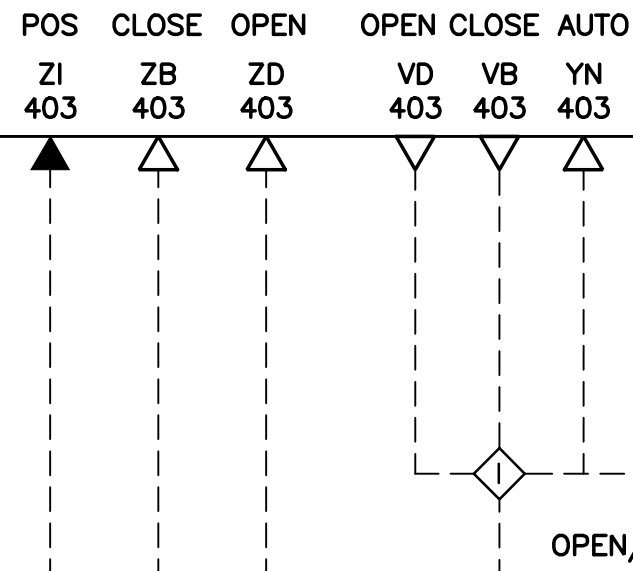
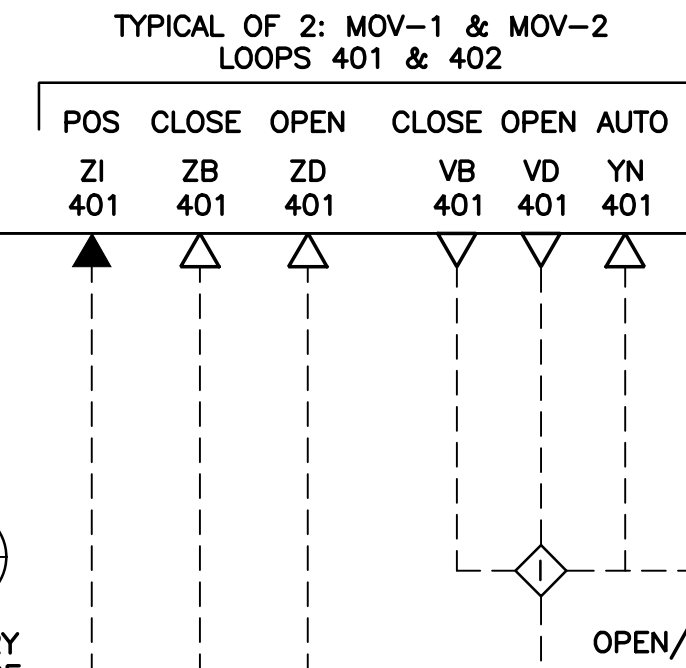
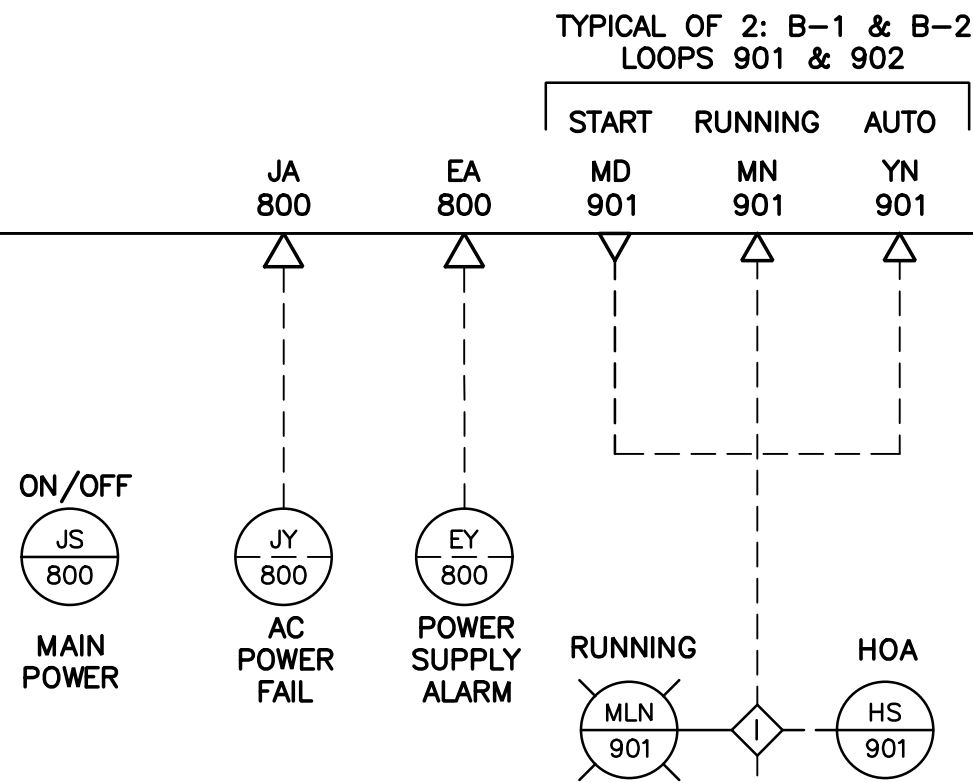
DOCUMENT NUMBER: C00-I-9248-75917

COYOTE PERCOLATION DAM CONTROL PANEL CABINET
CP - CPD

OIT



PLC



	BLOWER B-1 INFLATION	BLOWER B-2 INFLATION	DEFLATION	IDLE OR LOCKOUT
VALVE MOV-1	OPEN	CLOSE	CLOSE	CLOSE
VALVE MOV-2	CLOSE	OPEN	CLOSE	CLOSE
VALVE MOV-3	CLOSE	CLOSE	OPEN	CLOSE

REFERENCE INFORMATION AND NOTES

- ALL INSTRUMENT TAG NUMBERS FOR RUBBER DAM SHALL BE PREFIXED BY "CPD". A COMPLETE INSTRUMENT TAG SHALL BE LIKE "CPD-HS-100".
- PLC & OIT ARE MOUNTED IN THE CONTROL PANEL CP-CPD.
- THE DEFLATION COMMENDS CAN BE ENTERED FROM RAW WATER CONTROL CENTER IN CASE OF EMERGENCY.

DATE
JAN 2023

DESIGN
B. CHEN

DRAWN
J. CORDOVA

CHECKED
J. REID

ENGINEERING CERTIFICATION

SANTA CLARA VALLEY WATER DISTRICT

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT



PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM
REPLACEMENT PROJECT

PERCOLATION DAM P&ID

SCALE
AS SHOWN

VERIFY SCALES

0 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

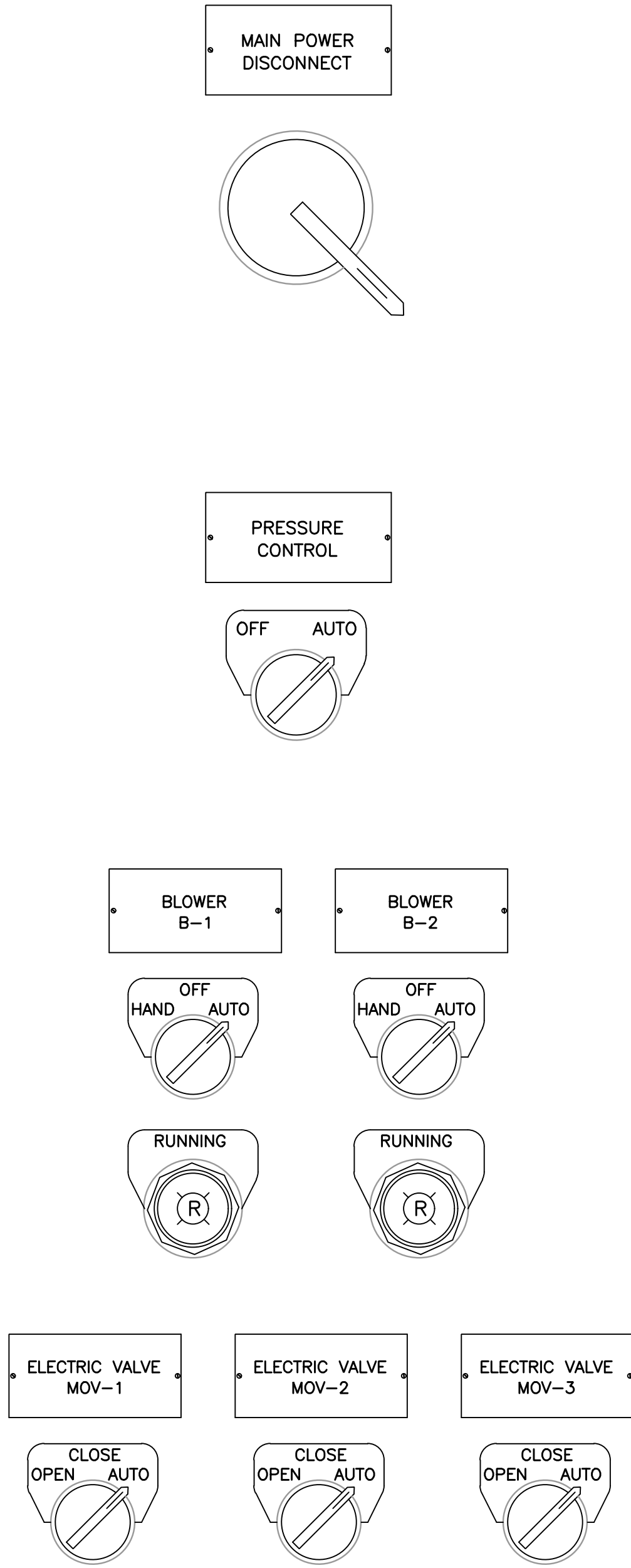
PROJECT NUMBER
91864009

SHEET CODE:
I-03

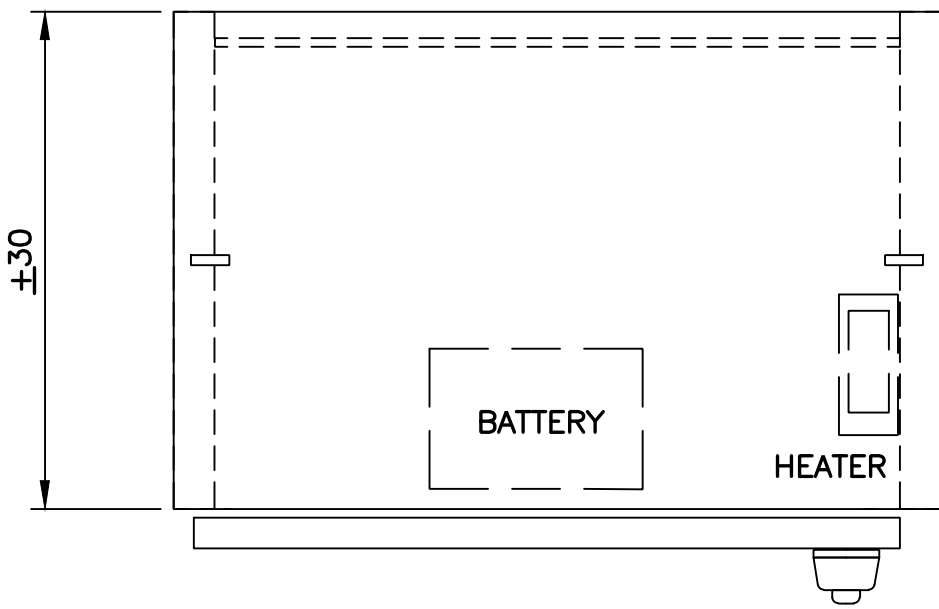
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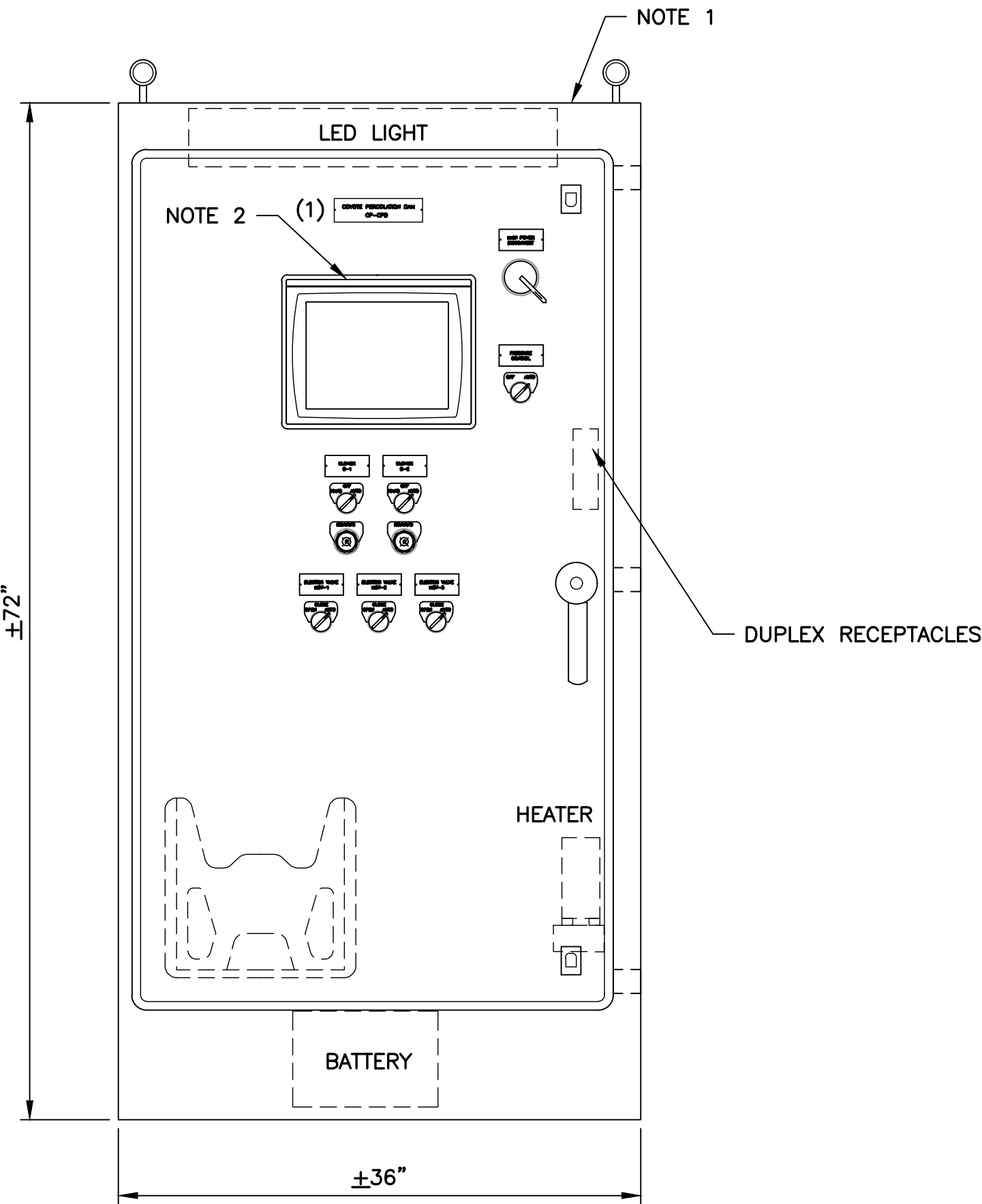
DOCUMENT NUMBER: COO-I-9248-75918



SWITCHES & LIGHTS



TOP VIEW

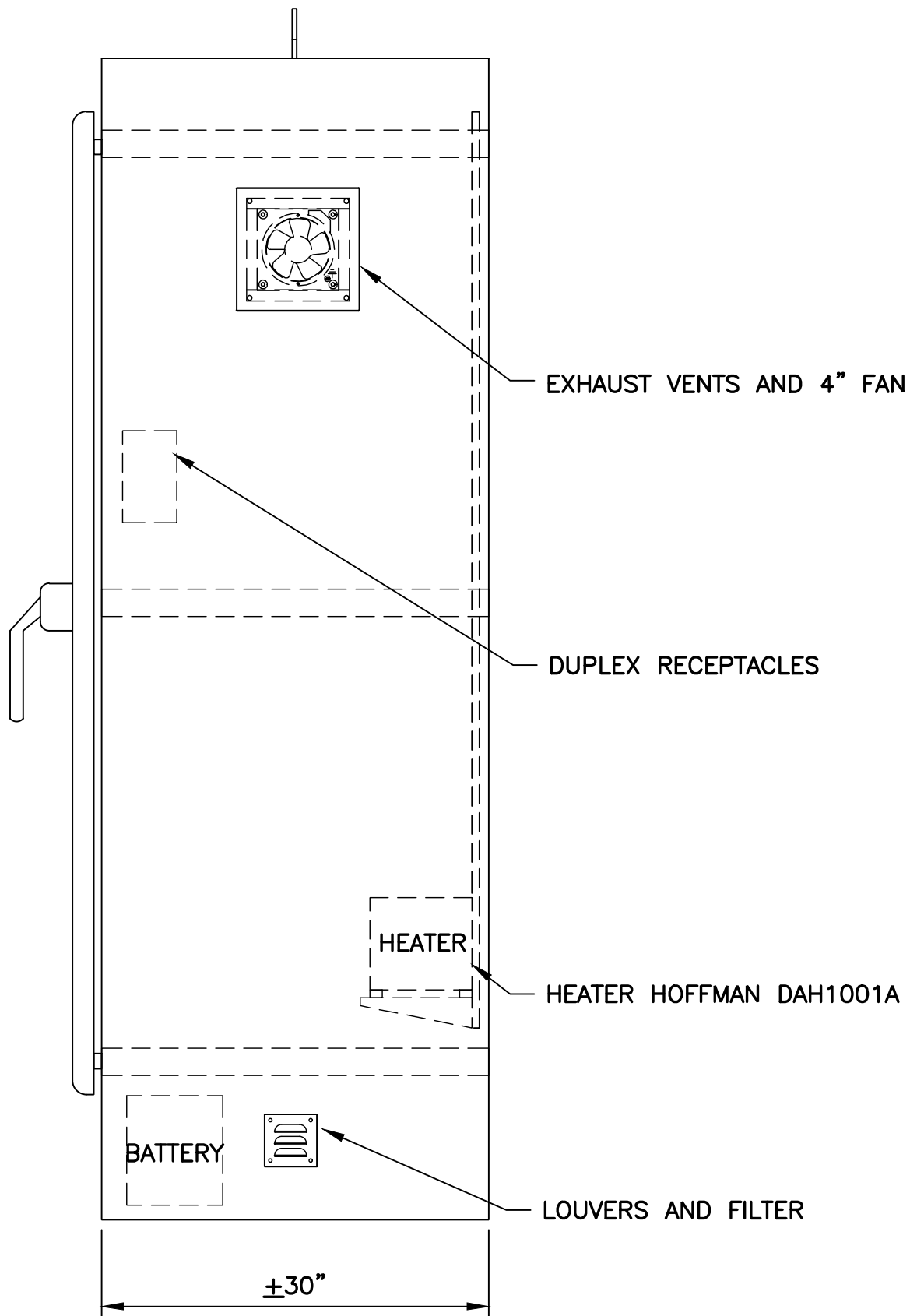


DOOR LAYOUT
FRONT VIEW

NAMEPLATE SCHEDULE			
TAG	LINE 1	LINE 2	SIZE
1	COYOTE PERCOLATION DAM	CP-CPD	2" x 8"

NOTES:

- HOFFMAN A723630SSFSN4 72"H x 36"W x 30"D FREE-STAND NEMA-3R ENCLOSURE. INCLUDE A72P36F1 BACKPANEL.
- OPERATOR INTERFACE (OIT)
- CONTROL PANEL SHALL BE FURNISHED BY OWNER AND INSTALLED BY THE CONTRACTOR. CONTRACTOR SHALL INSTALL AND TERMINATE ALL FIELD WIRING BETWEEN CONTROL PANEL AND THE FIELD DEVICES. THIS LAYOUT IS FOR REFERENCE ONLY.



SIDE VIEW

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT	AS SHOWN	91864009
					DESIGN				VERIFY SCALES	SHEET CODE:
					DRAWN				0 1"	I-04
					J. CORDOVA				BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER:
					CHECKED			CPD CONTROL PANEL ENCLOSURE LAYOUT		76
					J. REID					Attachment 3
					PROJECT ENGINEER	DATE				76 of 106

4

USERNAME: OscarReyn
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2

DOCUMENT NUMBER: C00-I-9248-75919

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REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE JAN 2023 DESIGN B. CHEN DRAWN J. CORDOVA CHECKED J. REID	ENGINEERING CERTIFICATION 	SANTA CLARA VALLEY WATER DISTRICT 	PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT *CPD CONTROL PANEL BACK PANEL LAYOUT	SCALE AS SHOWN VERIFY SCALES  BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91864009 SHEET CODE: I-05 SHEET NUMBER: 77
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DOCUMENT NUMBER: C00-I-9248-75920

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE JAN 2023 DESIGN B. CHEN DRAWN J. CORDOVA CHECKED J. REID	ENGINEERING CERTIFICATION 	SANTA CLARA VALLEY WATER DISTRICT 	PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT *CPD CONTROL PANEL PLC DETAIL LAYOUT & CABLE CONNECTIONS	SCALE AS SHOWN VERIFY SCALES  BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91864009 SHEET CODE: I-06 SHEET NUMBER: 78
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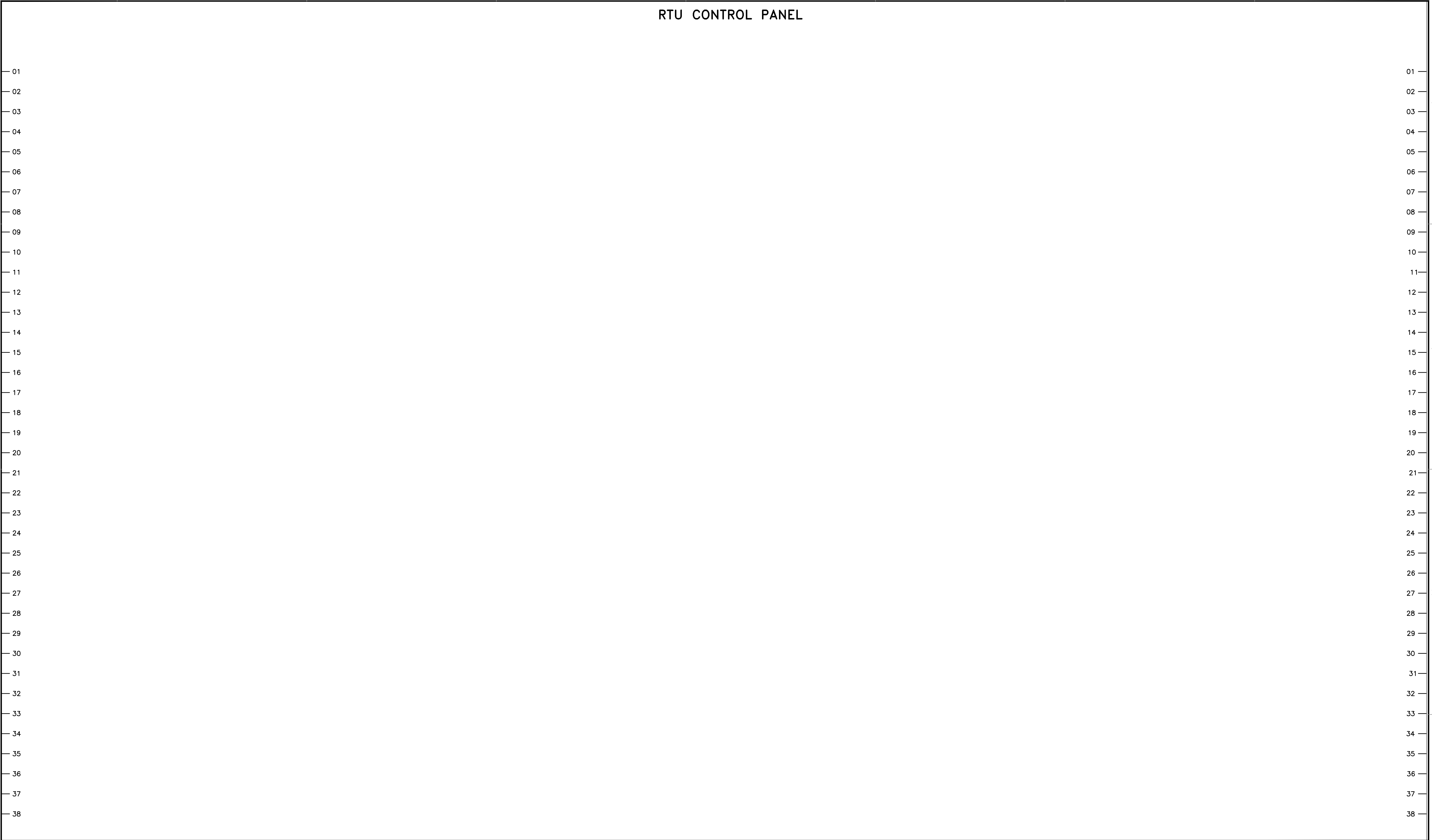
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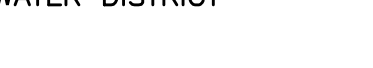
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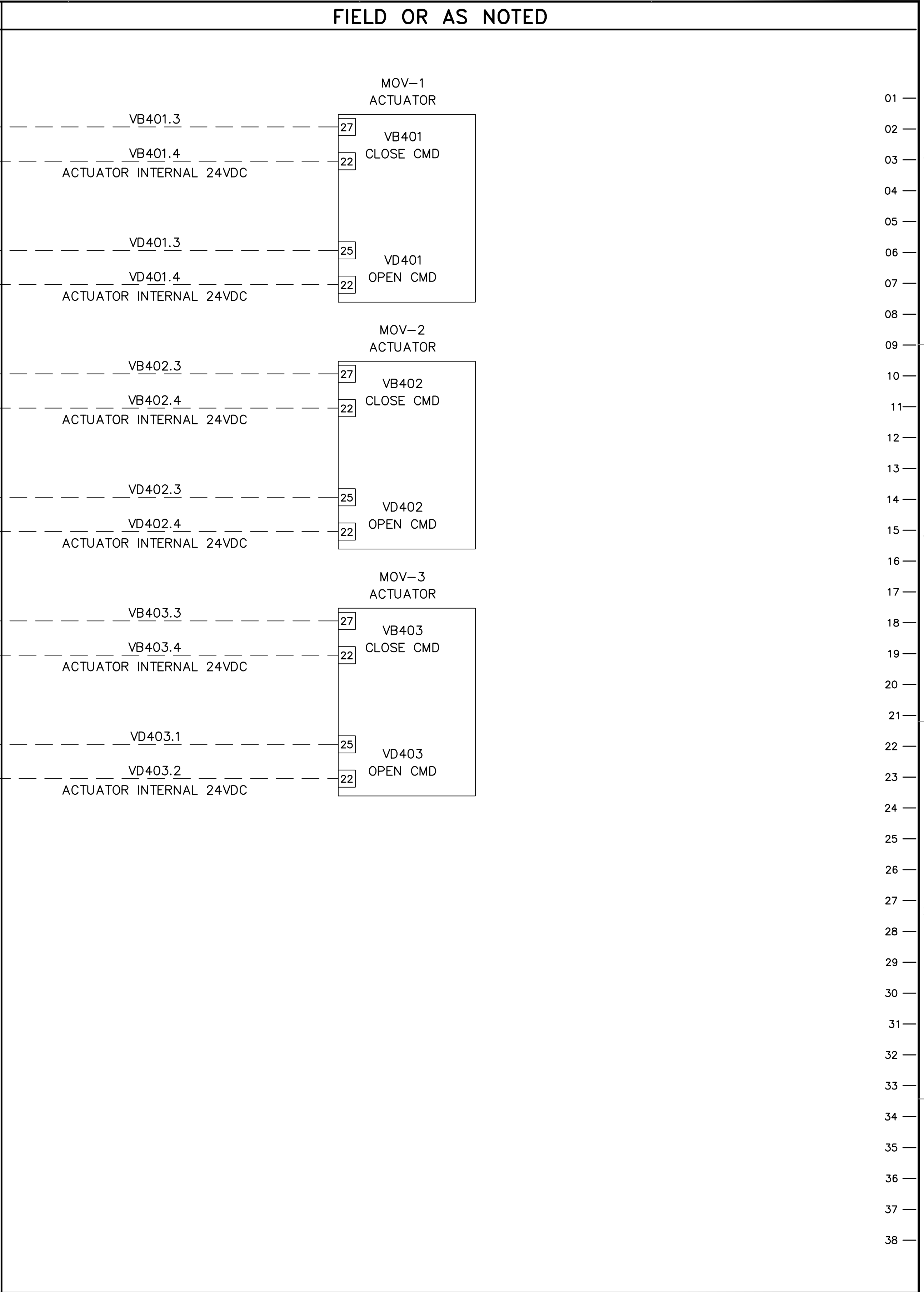
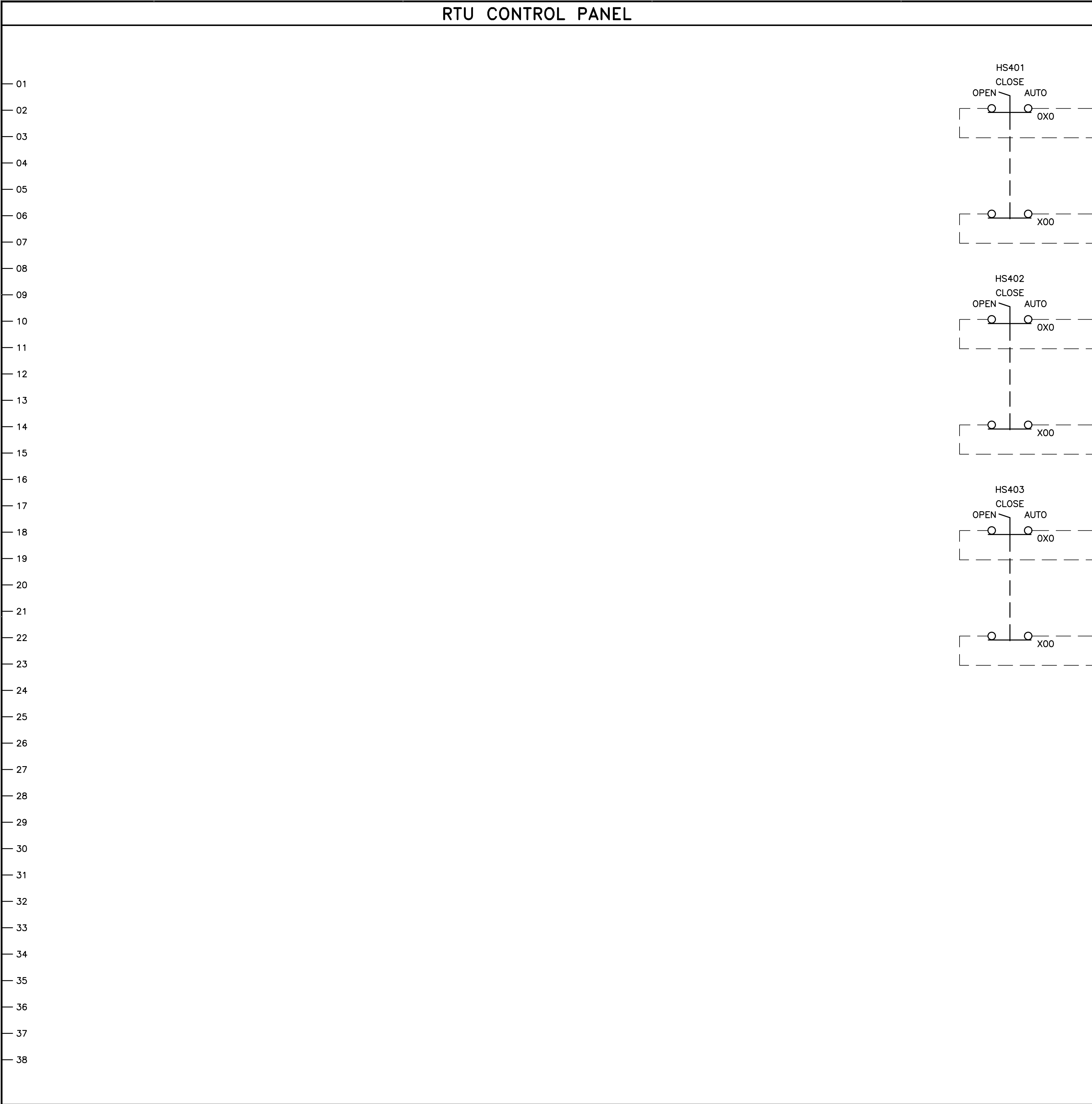
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					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT *CPD CONTROL PANEL 120 VAC CONTROL WIRING	AS SHOWN	91864009		
					DESIGN						VERIFY SCALES	SHEET CODE:
					B. CHEN							I-07
					DRAWN						BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER:
					J. CORDOVA							79
					CHECKED							
					J. REID	PROJECT ENGINEER	DATE					

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DOCUMENT NUMBER: C00-I-9248-75922



REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
				1. PARTIAL CONTENT ON THIS SHEET HAS BEEN REMOVED FROM THE BID SET. COMPLETE SHEET TO BE PROVIDED AFTER CONTRACT IS AWARDED. THE CONTENTS WITHHELD WILL NOT IMPACT THE SCOPE OF WORK.	JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT CPD CONTROL PANEL 24 VDC CONTROL WIRING		91864009
										SHEET CODE: I-08 SHEET NUMBER: 80

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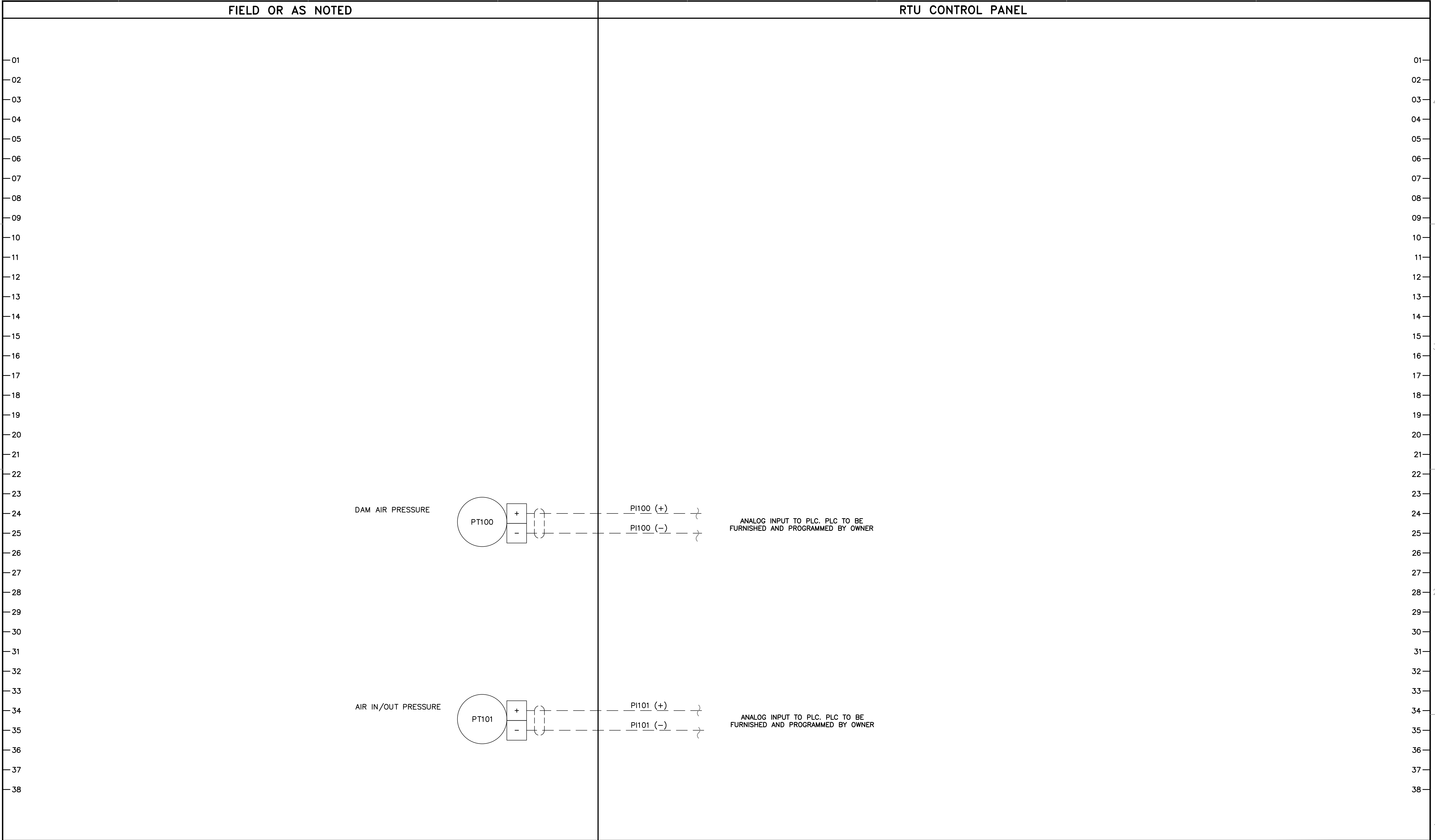
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REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER	
					JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT *CPD CONTROL PANEL COMMON POWER CONTROL WIRING	AS SHOWN	91864009	
					DESIGN				VERIFY SCALES	SHEET CODE:	
					DRAWN					I-09	
					CHECKED				BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER:	
					J. REID	PROJECT ENGINEER	DATE			81	

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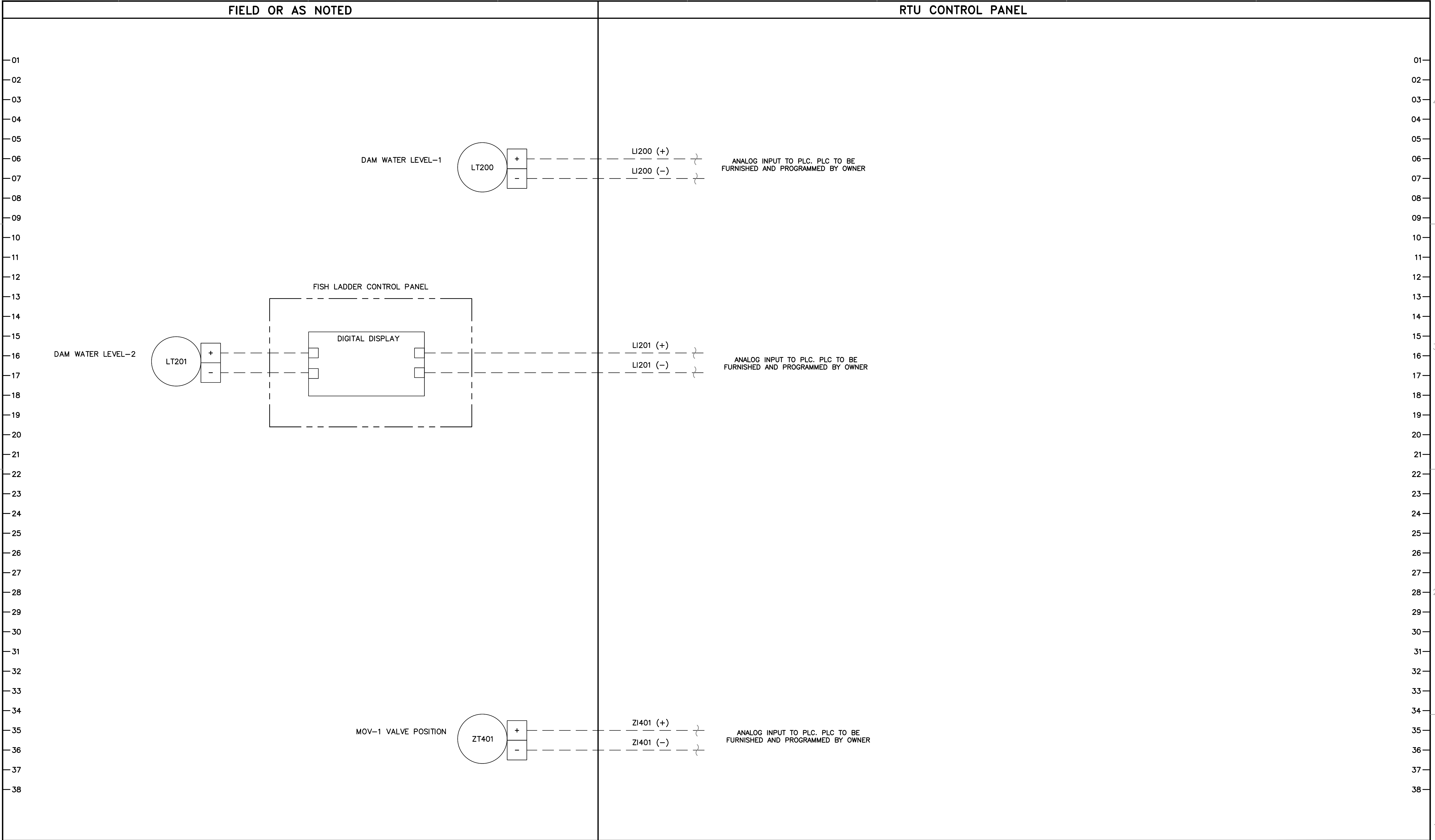
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				1. PARTIAL CONTENT ON THIS SHEET HAS BEEN REMOVED FROM THE BID SET. COMPLETE SHEET TO BE PROVIDED AFTER CONTRACT IS AWARDED. THE CONTENTS WITHHELD WILL NOT IMPACT THE SCOPE OF WORK.	JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT CPD CONTROL PANEL SLOT 2 - ANALOG INPUT MODULE CONTROL WIRING	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	91864009
										SHEET CODE: I-10 SHEET NUMBER: 82

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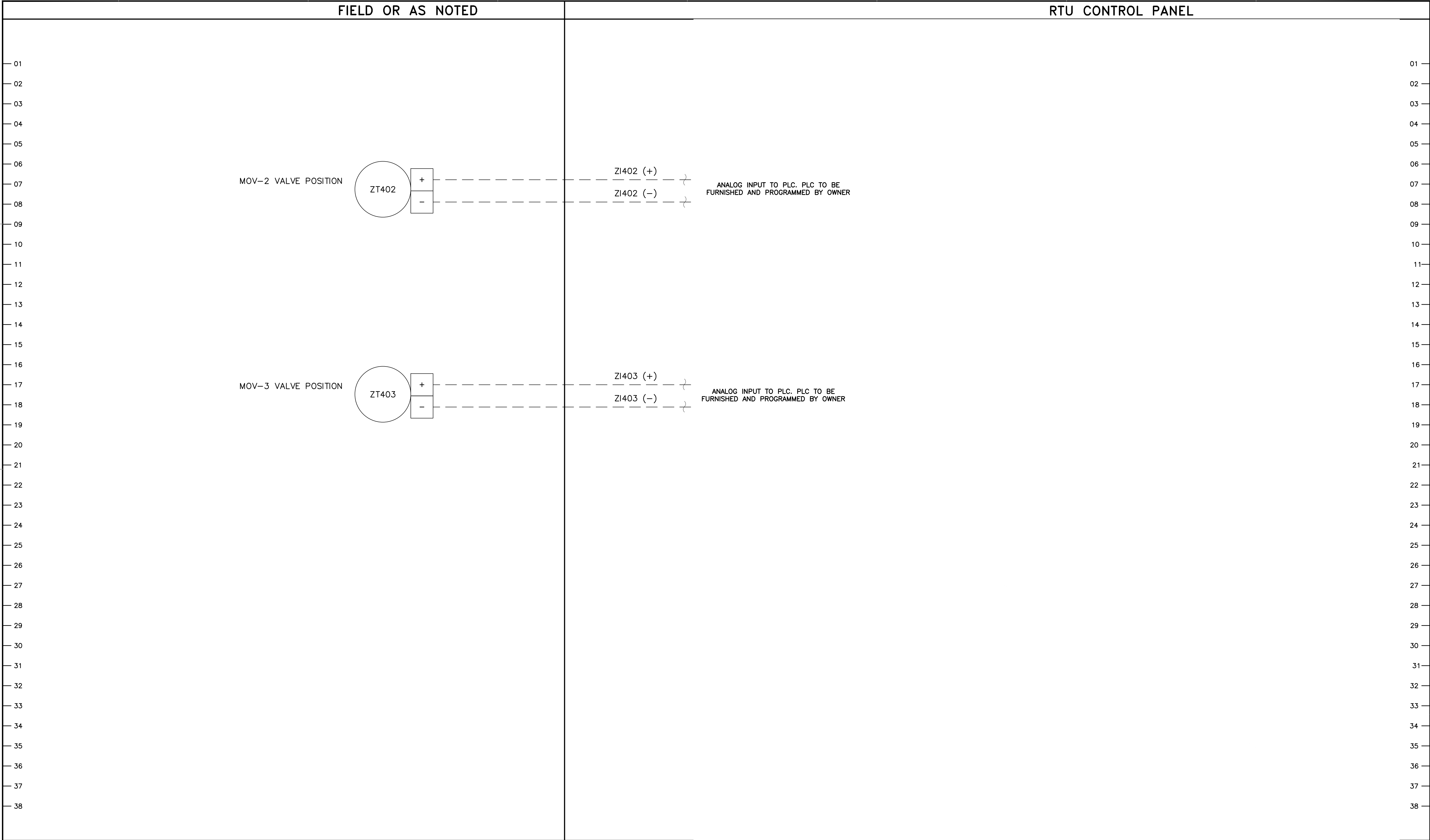
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REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
				1. PARTIAL CONTENT ON THIS SHEET HAS BEEN REMOVED FROM THE BID SET. COMPLETE SHEET TO BE PROVIDED AFTER CONTRACT IS AWARDED. THE CONTENTS WITHHELD WILL NOT IMPACT THE SCOPE OF WORK.	JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT CPD CONTROL PANEL SLOT 3 – ANALOG INPUT MODULE CONTROL WIRING	 VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	91864009
										SHEET CODE: I-11 SHEET NUMBER: 83

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DOCUMENT NUMBER: C00-I-9248-75926



REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
				1. PARTIAL CONTENT ON THIS SHEET HAS BEEN REMOVED FROM THE BID SET. COMPLETE SHEET TO BE PROVIDED AFTER CONTRACT IS AWARDED. THE CONTENTS WITHHELD WILL NOT IMPACT THE SCOPE OF WORK.	JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT CPD CONTROL PANEL SLOT 4 – ANALOG INPUT MODULE CONTROL WIRING	 VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	91864009
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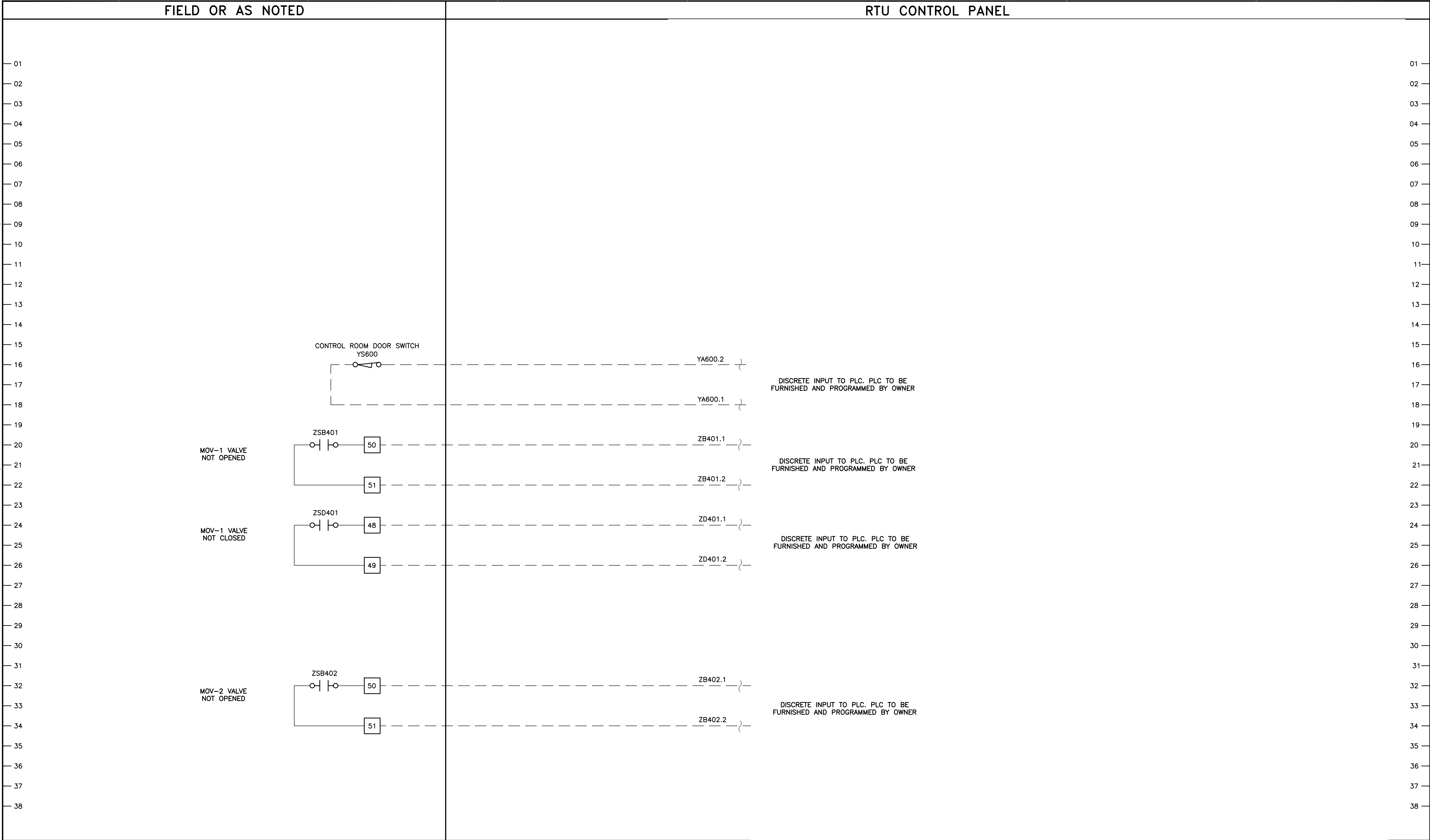
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DOCUMENT NUMBER: C00-I-9248-75927

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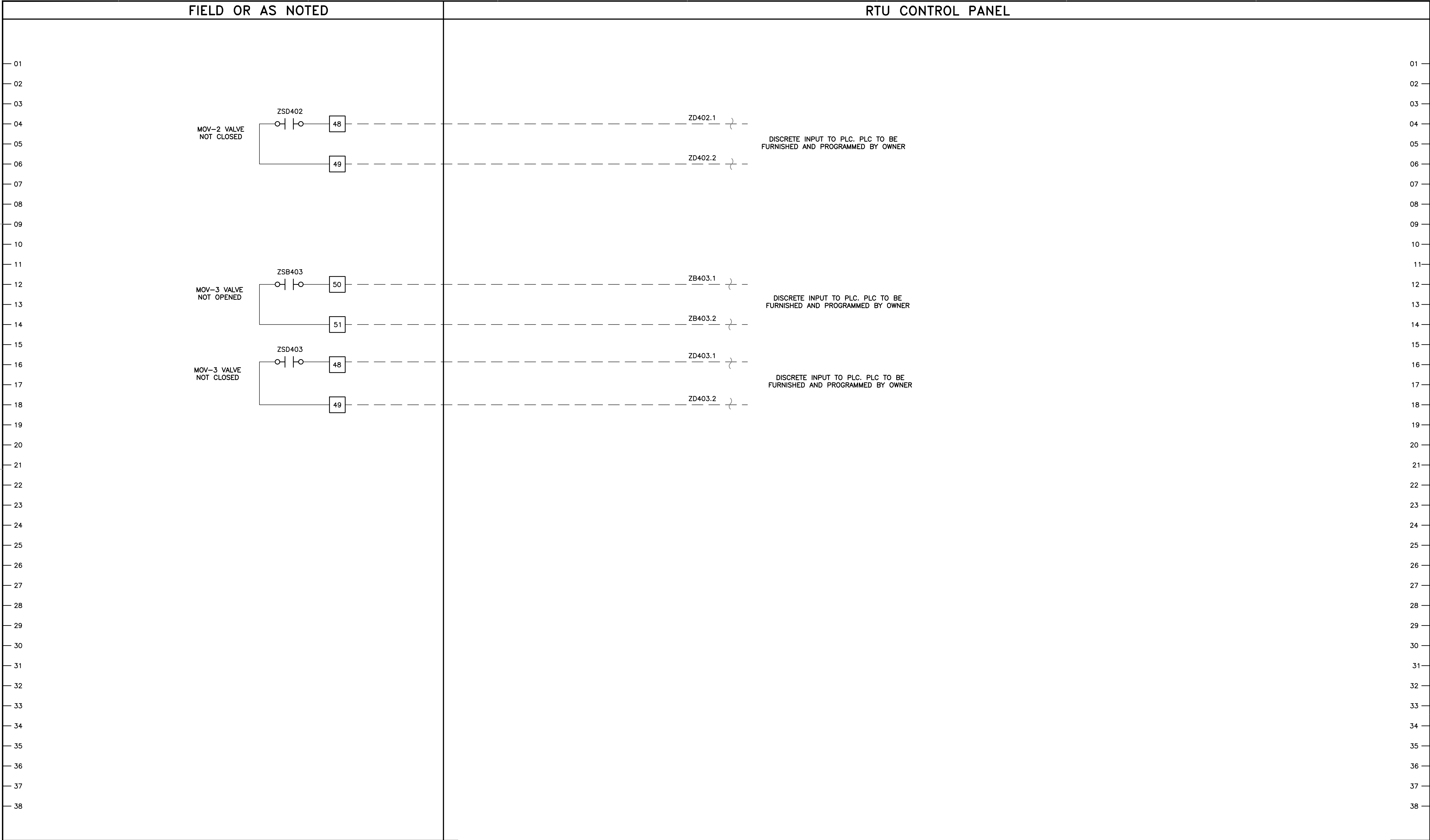
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REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
				1. PARTIAL CONTENT ON THIS SHEET HAS BEEN REMOVED FROM THE BID SET. COMPLETE SHEET TO BE PROVIDED AFTER CONTRACT IS AWARDED. THE CONTENTS WITHHELD WILL NOT IMPACT THE SCOPE OF WORK.	JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT CPD CONTROL PANEL SLOT 5 – DISCRETE INPUT MODULE CONTROL WIRING (1 OF 2)	 VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	91864009
										SHEET CODE: I-13 SHEET NUMBER: 85

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DOCUMENT NUMBER: C00-I-9248-75928



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				1. PARTIAL CONTENT ON THIS SHEET HAS BEEN REMOVED FROM THE BID SET. COMPLETE SHEET TO BE PROVIDED AFTER CONTRACT IS AWARDED. THE CONTENTS WITHHELD WILL NOT IMPACT THE SCOPE OF WORK.	JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT CPD CONTROL PANEL SLOT 5 – DISCRETE INPUT MODULE CONTROL WIRING (2 OF 2)	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	91864009
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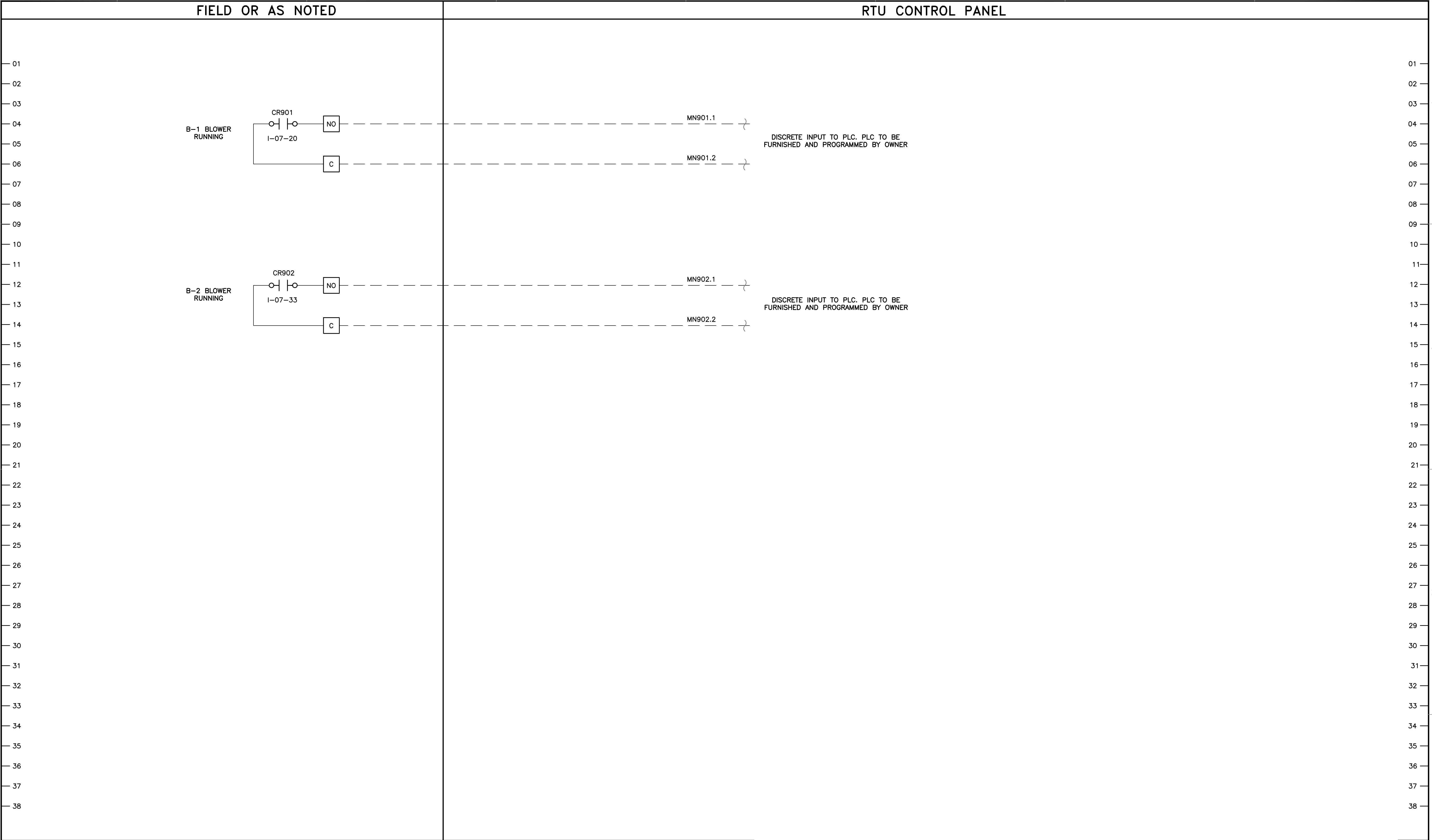
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DOCUMENT NUMBER: C00-I-9248-75929

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REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
				1. PARTIAL CONTENT ON THIS SHEET HAS BEEN REMOVED FROM THE BID SET. COMPLETE SHEET TO BE PROVIDED AFTER CONTRACT IS AWARDED. THE CONTENTS WITHHELD WILL NOT IMPACT THE SCOPE OF WORK.	JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT CPD CONTROL PANEL SLOT 6 – DISCRETE INPUT MODULE CONTROL WIRING (1 OF 2)	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	91864009
										SHEET CODE: I-15
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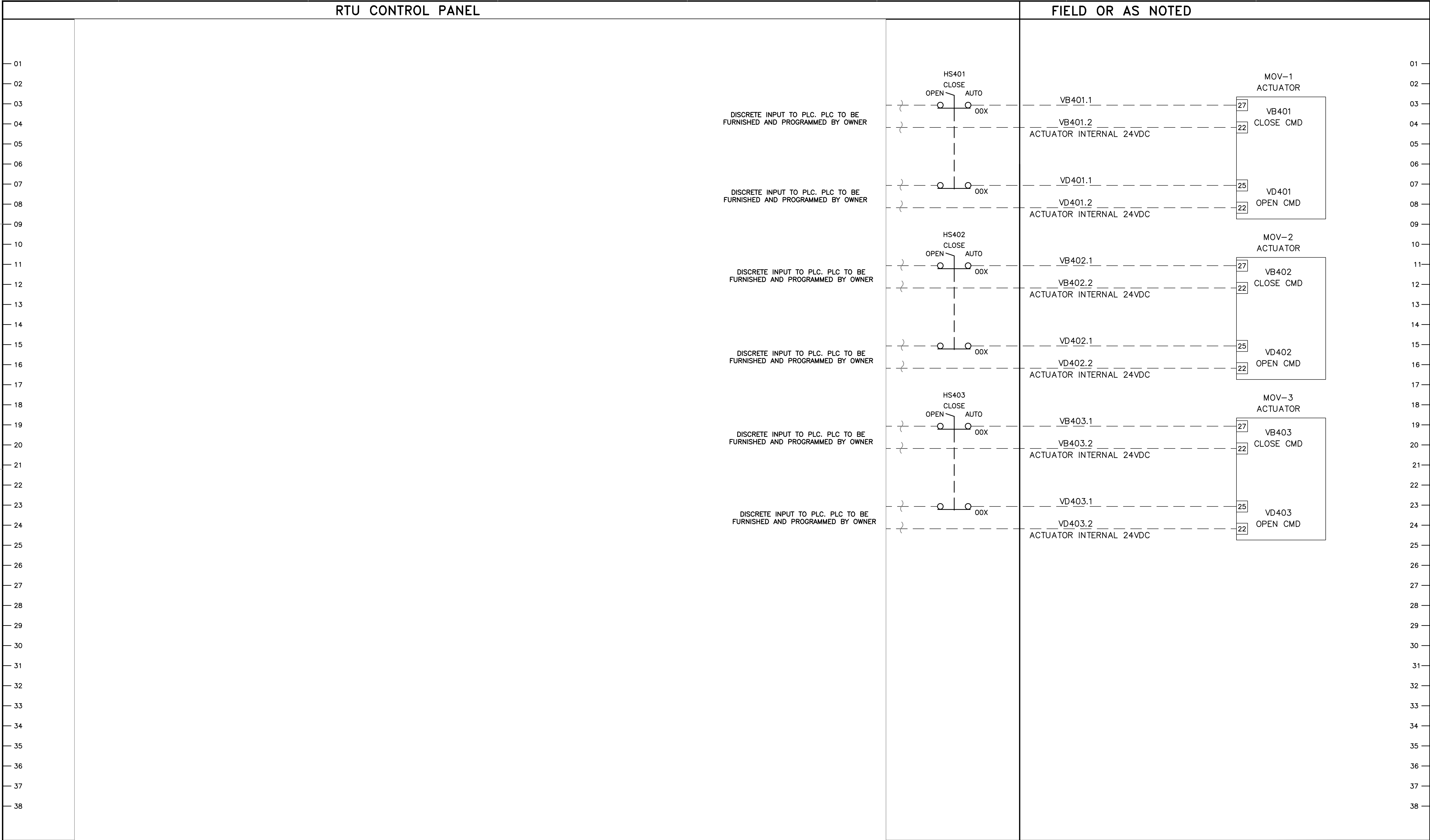
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DOCUMENT NUMBER: C00-I-9248-75930

FIELD OR AS NOTED				RTU CONTROL PANEL			
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REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES		DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:		SCALE	PROJECT NUMBER
						JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT *CPD CONTROL PANEL SLOT 6 – DISCRETE INPUT MODULE CONTROL WIRING (2 OF 2)		AS SHOWN	91864009
						DESIGN					VERIFY SCALES	SHEET CODE:
						DRAWN						I-16
						CHECKED					BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER: 88
						J. REID	PROJECT ENGINEER	DATE				

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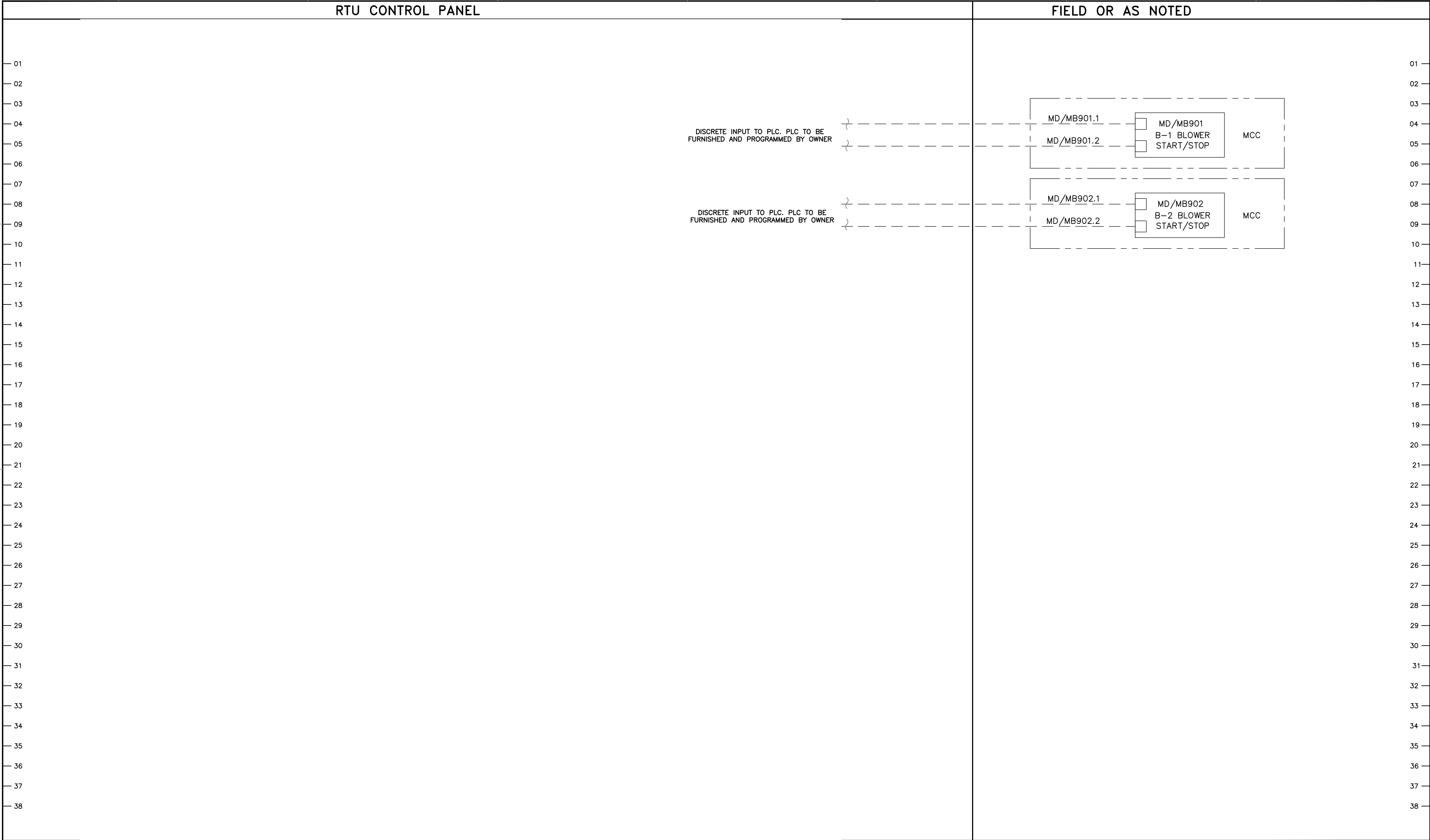
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REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
				1. PARTIAL CONTENT ON THIS SHEET HAS BEEN REMOVED FROM THE BID SET. COMPLETE SHEET TO BE PROVIDED AFTER CONTRACT IS AWARDED. THE CONTENTS WITHHELD WILL NOT IMPACT THE SCOPE OF WORK.	JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT CPD CONTROL PANEL SLOT 7 - DISCRETE OUTPUT MODULE CONTROL WIRING (1 OF 2)	 VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	91864009
										SHEET CODE: I-17 SHEET NUMBER: 89

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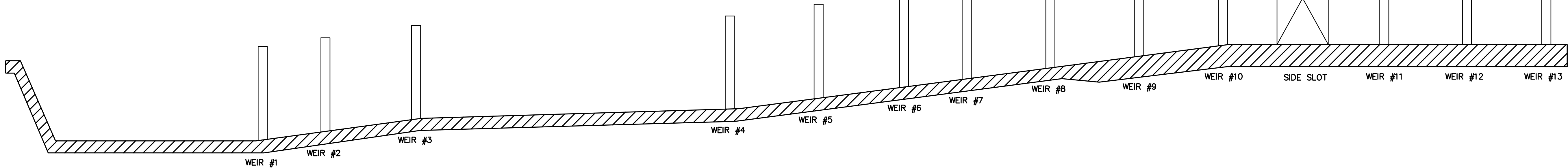
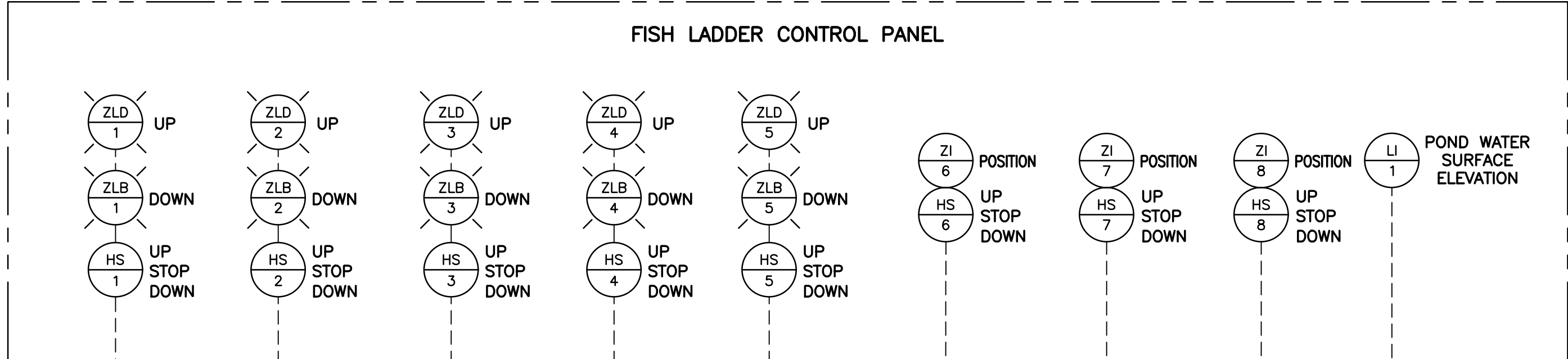
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REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
				1. PARTIAL CONTENT ON THIS SHEET HAS BEEN REMOVED FROM THE BID SET. COMPLETE SHEET TO BE PROVIDED AFTER CONTRACT IS AWARDED. THE CONTENTS WITHHELD WILL NOT IMPACT THE SCOPE OF WORK.	JAN 2023			FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT CPD CONTROL PANEL SLOT 7 - DISCRETE OUTPUT MODULE CONTROL WIRING (2 OF 2)	 VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	91864009
										SHEET CODE: I-18 SHEET NUMBER: 90

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1/12/2023 4:08 PM
RamaSain

DOCUMENT NUMBER: C00-I-9248-75933

WEIR NO.	GATE ACTUATOR FUNCTION
#1-#6	N/A
#7-#10	UP/DOWN POSITION ONLY
SIDE SLOT	UP/DOWN POSITION ONLY
#11-#13	ADJUSTABLE POSITION



DATE JAN 2023	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN B. CHEN		
DRAWN J. CORDOVA		
CHECKED J. REID		
PROJECT ENGINEER		
	DATE	

PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT FISH LADDER P&ID	SCALE AS SHOWN	PROJECT NUMBER 91864009
	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: I-19
		SHEET NUMBER: 91

USERNAME: OscarReyn 1/12/2023 4:59 PM
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DOCUMENT NUMBER: COO-I-9248-75934

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

DATE	ENGINEERING CERTIFICATION
JAN 2023	
DESIGN	
B. CHEN	
DRAWN	
J. CORDOVA	
CHECKED	
J. REID	
PROJECT ENGINEER	DATE



SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
FISH LADDER CONTROL PANEL LAYOUT

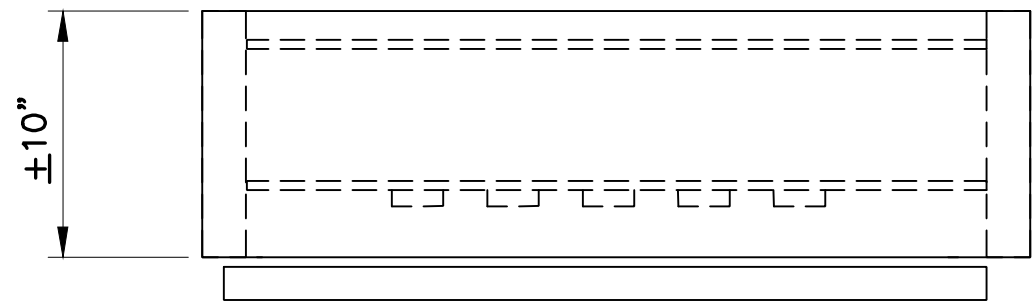
SCALE
AS SHOWN

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

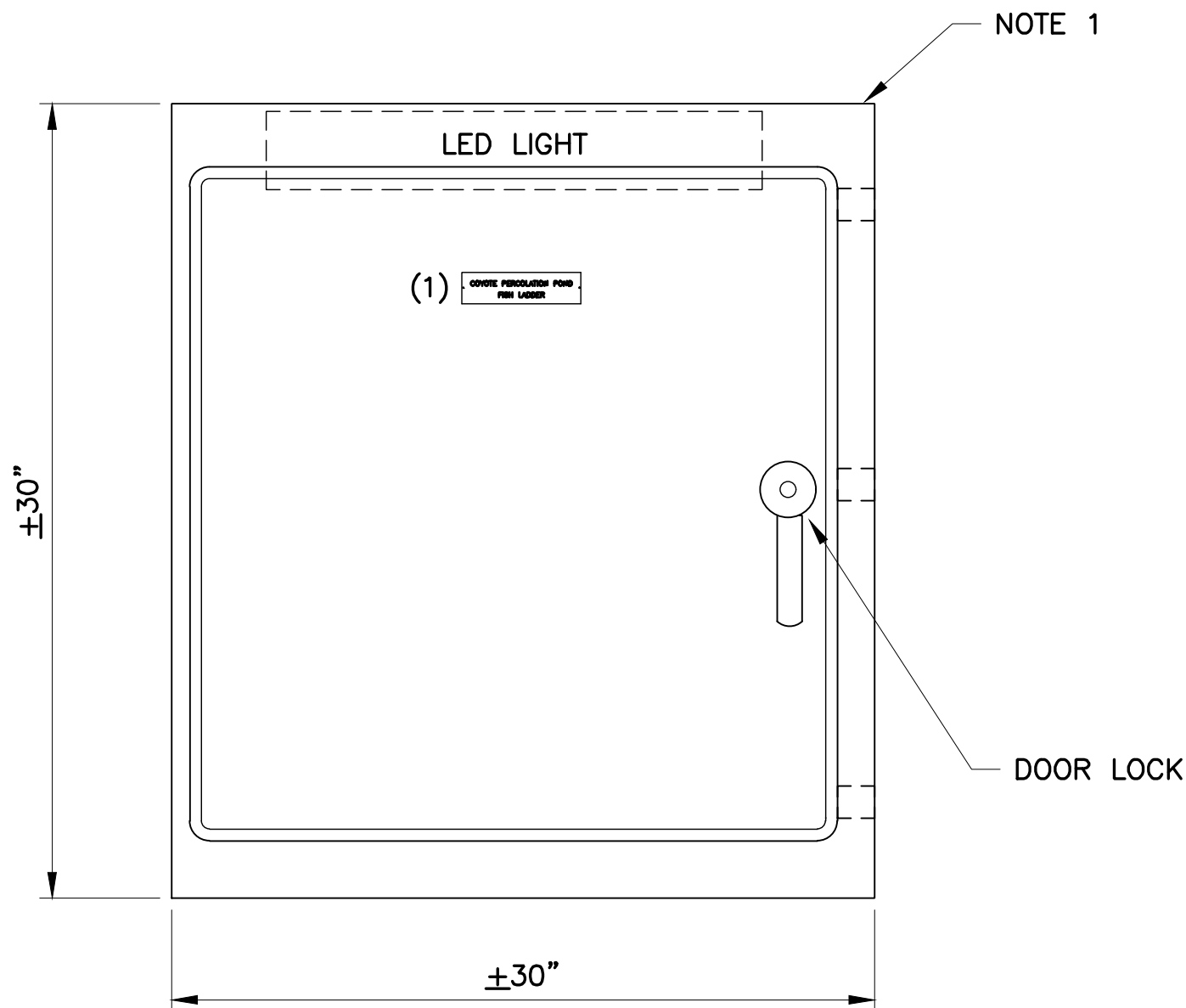
PROJECT NUMBER
91864009

SHEET CODE:
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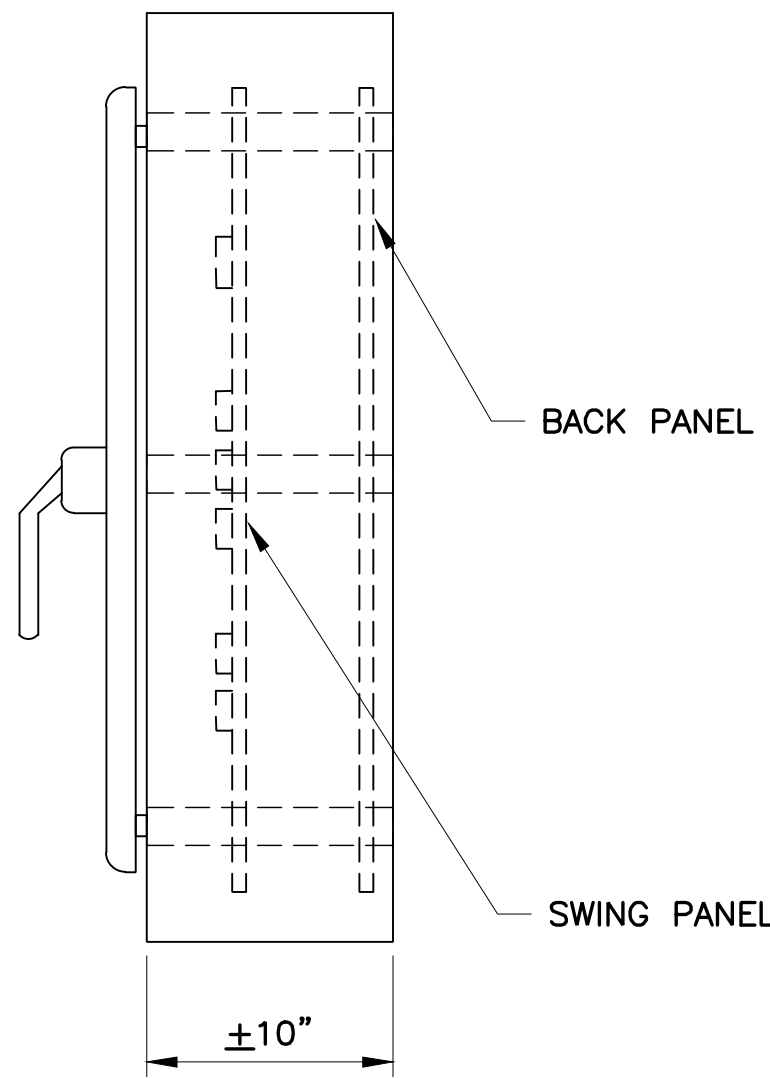
SHEET NUMBER:
92



TOP VIEW



DOOR LAYOUT
FRONT VIEW



SIDE VIEW

NAMEPLATE SCHEDULE			
TAG	LINE 1	LINE 2	SIZE
1	COYOTE PERCOLATION POND	FISH LADDER	2" x 8"

NOTES:

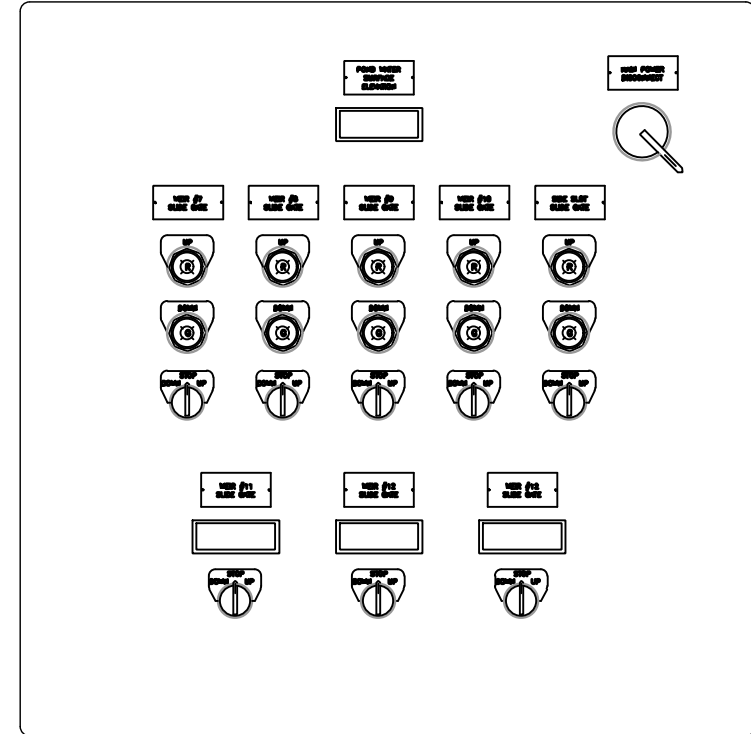
1. STAINLESS STEEL 30"x30"x10" NEMA-4 ENCLOSURE. INCLUDE BACK PANEL AND SWING PANEL.
2. CONTROL PANEL SHALL BE FURNISHED BY OWNER AND INSTALLED BY THE CONTRACTOR. CONTRACTOR SHALL INSTALL AND TERMINATE ALL FIELD WIRING BETWEEN CONTROL PANEL AND THE FIELD DEVICES. THIS LAYOUT IS FOR REFERENCE ONLY.

SEQUENCE OF OPERATION FOR GATES AT WEIRS #7-#10 & SIDE SLOT:

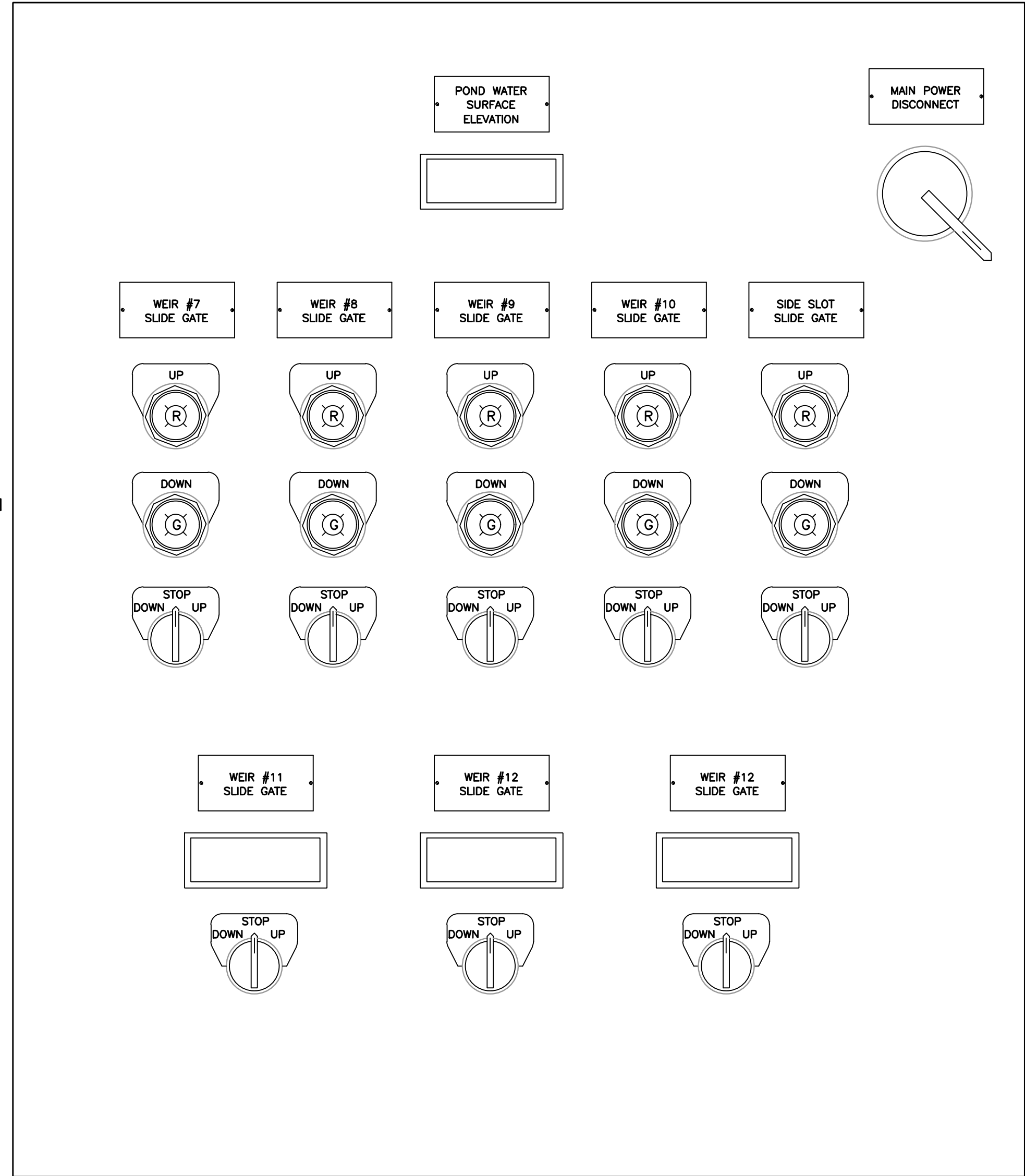
1. TURN THE SWITCH TO UP POSITION TO MOVE THE GATE UP.
2. THE GATE WILL MOVE UP AND THEN STOP AT THE FULLY UP POSITION.
3. THE RED UP LIGHT WILL BE TURNED ON.
4. TURN THE SWITCH TO DOWN POSITION TO MOVE THE GATE DOWN.
5. THE GATE WILL MOVE DOWN AND THEN STOP AT THE FULLY DOWN POSITION.
6. THE GREEN DOWN LIGHT WILL BE TURNED ON.
7. TURN THE SWITCH TO STOP POSITION TO KEEP THE GATE POSITION.

SEQUENCE OF OPERATION FOR GATES AT WEIRS #11-#13:

1. TURN THE SWITCH TO UP POSITION TO MOVE THE GATE UP.
2. THE GREEN LED DIGITAL INDICATOR WILL SHOW GATE POSITION.
3. TURN THE SWITCH TO STOP POSITION WHEN THE GATE MOVES UP TO THE DESIRED POSITION.
4. TURN THE SWITCH TO DOWN POSITION TO MOVE THE GATE DOWN.
5. THE GREEN LED DIGITAL INDICATOR WILL SHOW GATE POSITION.
6. TURN THE SWITCH TO STOP POSITION WHEN THE GATE MOVES DOWN TO THE DESIRED POSITION.



SWING PANEL LAYOUT



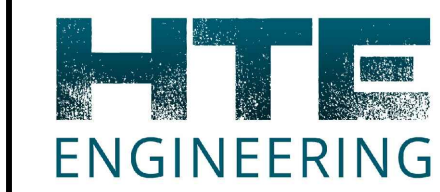
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1/12/2023 4:06:14 PM
RamaSain

DOCUMENT NUMBER: COO-M-9248-75935

NOTES:

- ALL DIMENSIONS IN FEET-INCHES [MM]. ALL ELEVATIONS GIVEN IN FEET (NAVD88).
- INSTALL RUBBER DAM ON NEW REINFORCED CONCRETE FOUNDATION. SEE S-SHT FOR FOUNDATION STRUCTURAL DESIGN.
- ENSURE A SMOOTH CONTACT SURFACE FOR THE RUBBER DAM BLADDER. CONTACT AREAS MUST BE CLEAN AND FREE OF ANY SHARP OR ABRASIVE AREAS WHICH COULD WEAR ON THE BLADDER OVER TIME. THE INSTALLATION SUPERVISOR WILL INSPECT THE FOUNDATION PRIOR TO INSTALLATION TO DETERMINE WHICH AREAS NEED TO BE FURTHER SMOOTHED.

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES



DATE
JAN 2023

DESIGN
D. SANDERS

DRAWN
D. SANDERS

CHECKED
G. PAN

ENGINEERING CERTIFICATION



CIVIL
STATE OF CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT



PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

RUBBER DAM ELEVATION AND PLAN VIEWS

SCALE
AS SHOWN

PROJECT NUMBER
91864009

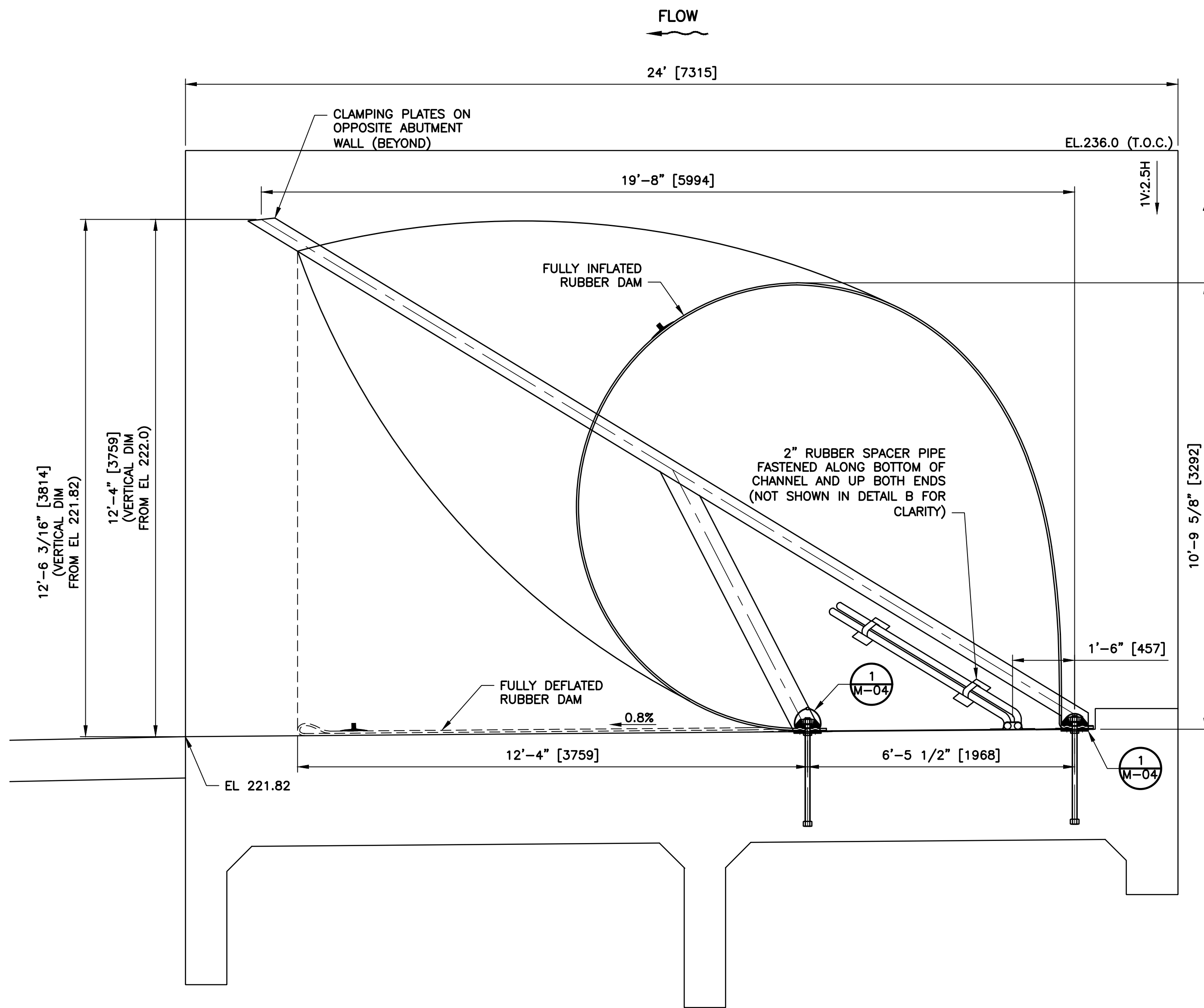
VERIFY SCALES
0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

SHEET CODE:
M-01

SHEET NUMBER:
93

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DOCUMENT NUMBER: COO-M-9248-75936



SECTION **A** RUBBER DAM SECTION VIEW
M-01 NORTH ABUTMENT
SCALE: 1/2" = 1'-0"

- NOTES:
- ALL DIMENSIONS IN FEET-INCHES [MM]. ALL ELEVATIONS GIVEN IN FEET (NAVD88).
 - INSTALL RUBBER DAM ON NEW REINFORCED CONCRETE FOUNDATION. SEE S-SHT FOR FOUNDATION STRUCTURAL DESIGN.
 - ENSURE A SMOOTH CONTACT SURFACE FOR THE RUBBER DAM BLADDER. CONTACT AREAS MUST BE CLEAN AND FREE OF ANY SHARP OR ABRASIVE AREAS WHICH COULD WEAR ON THE BLADDER OVER TIME. THE INSTALLATION SUPERVISOR WILL INSPECT THE FOUNDATION PRIOR TO INSTALLATION TO DETERMINE WHICH AREAS NEED TO BE FURTHER SMOOTHED.
 - SPECIFIED CAULK FOR USE BETWEEN LOWER CLAMPING PLATES IS SIKAFLEX 1A SEALANT (SUPPLIED BY CONTRACTOR.) INSTALL EMBEDDED LOWER CLAMPING PLATES FLUSH WITH TOP OF CONCRETE SURFACE.

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

HTE
ENGINEERING

DATE
JAN 2023
DESIGN
D. SANDERS
DRAWN
D. SANDERS
CHECKED
G. PAN

ENGINEERING CERTIFICATION

ENGINEER

SANTA CLARA VALLEY WATER DISTRICT

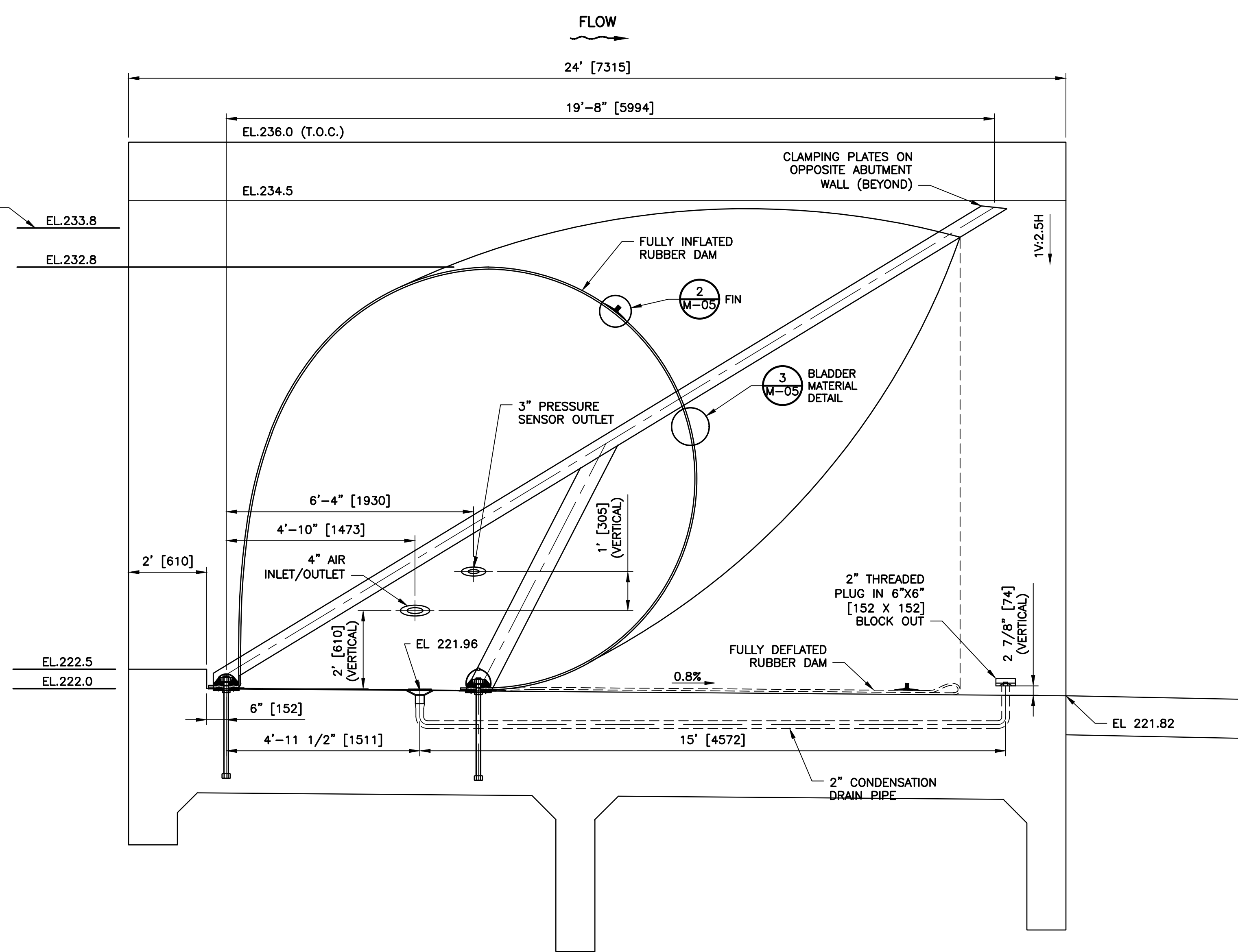
PROJECT ENGINEER
ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
RUBBER DAM SECTIONS VIEWS

SCALE
AS SHOWN
VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER
91864009
SHEET CODE:
M-02
SHEET NUMBER:
94



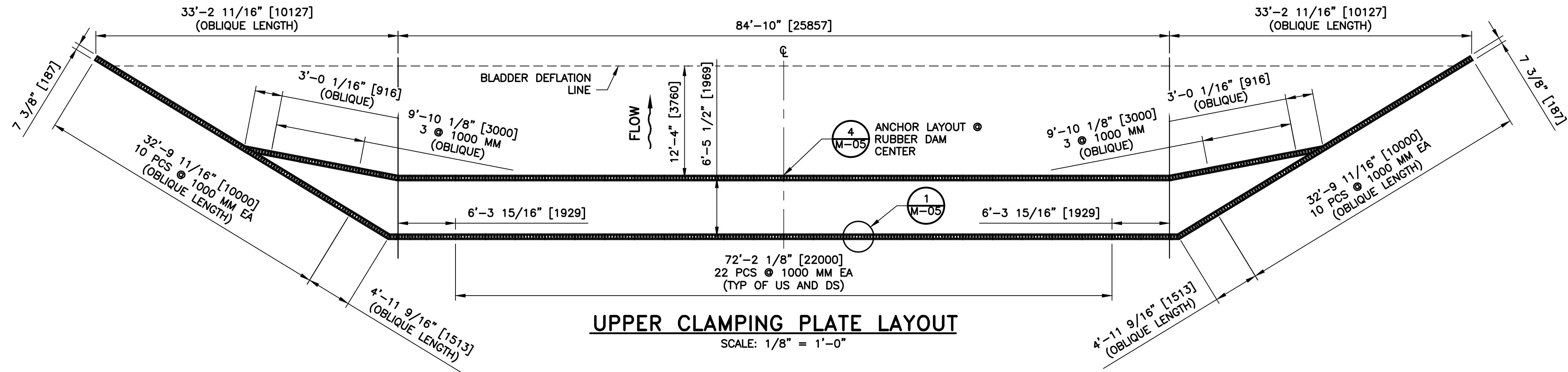
SECTION **B** RUBBER DAM SECTION VIEW
M-01 SOUTH ABUTMENT
SCALE: 1/2" = 1'-0"

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1/12/2023 4:16 PM
RamaSain

DOCUMENT NUMBER: C00-M-9248-75937

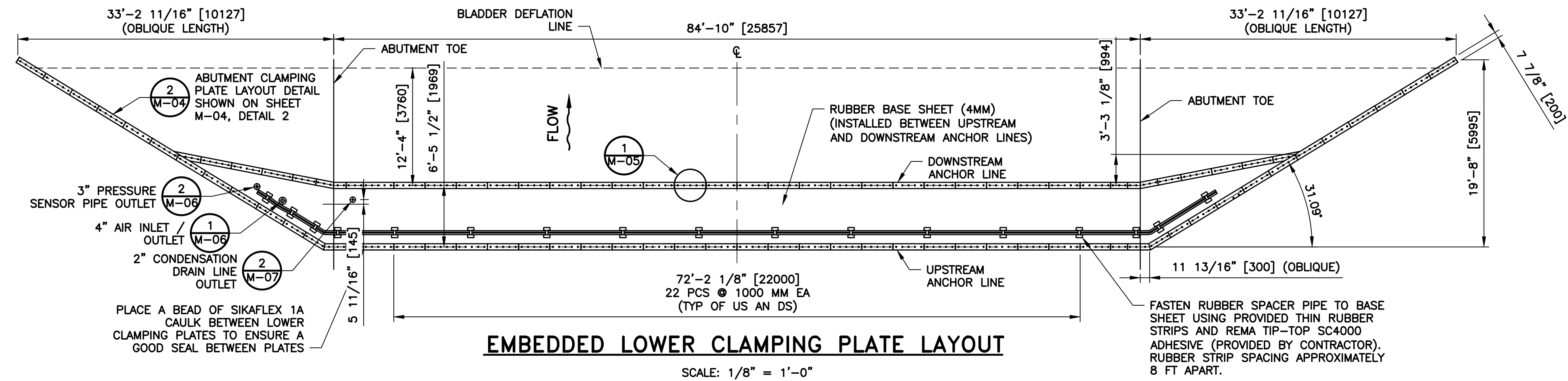
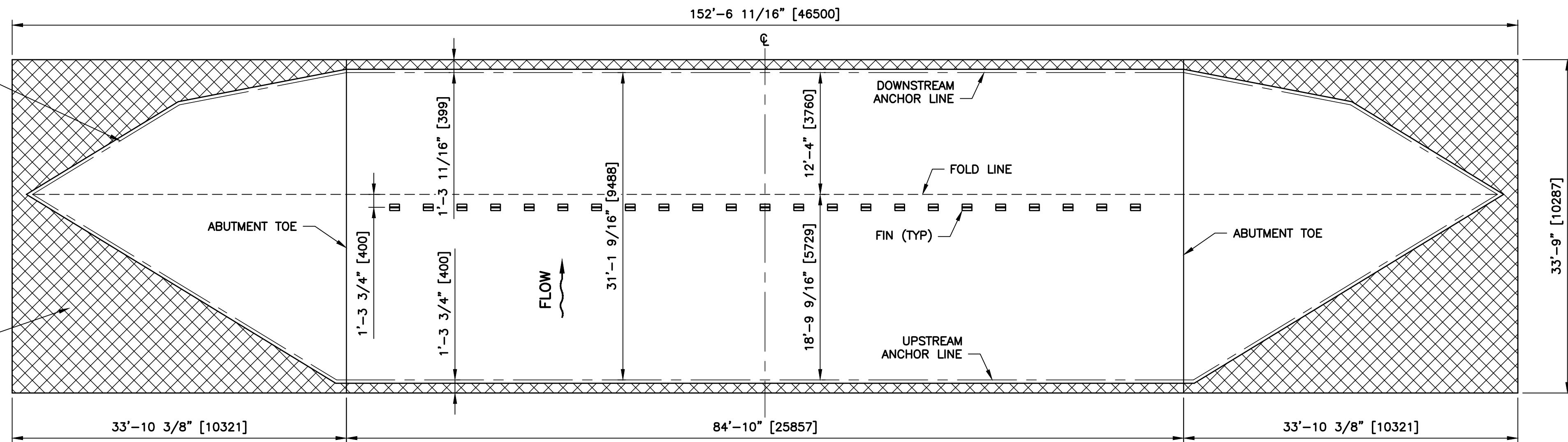
NOTES:

1. ALL DIMENSIONS IN FEET-INCHES [MM].
2. APPROXIMATE WEIGHT OF RUBBER BLADDER IS 25,350 LBS. APPROXIMATE WEIGHT OF CLAMPING COMPONENTS IS 238 LBS/SET. SET INCLUDES UPPER AND LOWER CLAMPING PLATES, BOLTS, NUTS, AND WASHERS.
3. CLAMPING PLATES AT ABUTMENT TOES ARE TO BE CUT TO LENGTH AND THE APPROPRIATE ANGLE ON-SITE BY THE INSTALLATION CONTRACTOR. AFTER CUTTING OF CLAMPING PLATES TO FIT, ROUND AND SMOOTH ANY SHARP EDGES TO PREVENT ANY EXCESS WEAR ON RUBBER BODY.
4. SPECIFIED CAULK FOR USE BETWEEN LOWER CLAMPING PLATES IS SIKAFLEX 1A SEALANT (SUPPLIED BY CONTRACTOR.) INSTALL EMBEDDED LOWER CLAMPING PLATES FLUSH WITH TOP OF CONCRETE SURFACE.
5. SPECIFIED ADHESIVE IS REMA TIP-TOP SC4000 (SUPPLIED BY CONTRACTOR.)
6. TYPICAL BOLT SPACING IS 200MM O.C., UNLESS NOTED OTHERWISE.

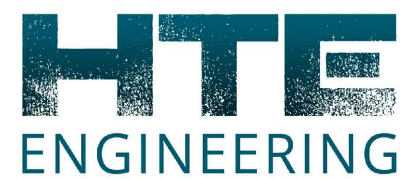


ANCHOR LINE (TYP) - ANCHOR HOLES TO BE DRILLED ON-SITE BY CONTRACTOR TO MATCH ANCHOR DIAMETER AND SPACING. MAX 1/16" TOLERANCE FOR ANCHOR HOLE DIAMETER (TYP OF ALL ANCHOR HOLES). APPROXIMATELY 428 ANCHOR BOLTS ALONG MAIN RUBBER BLADDER ANCHOR LINE

CONTRACTOR TO FIELD-TRIM AND REMOVE EXCESS MATERIAL AT BOTH ENDS AND ALONG UPSTREAM ANCHOR LINE UPON INSTALLATION



REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES



DATE JAN 2023
DESIGN D. SANDERS
DRAWN D. SANDERS
CHECKED G. PAN

ENGINEERING CERTIFICATION
SANTA CLARA VALLEY WATER DISTRICT
REGISTERED PROFESSIONAL ENGINEER JOHAN LEE No. C42456 CIVIL STATE OF CALIFORNIA
ENGINEER

SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER
ACCEPTED BY DISTRICT
DATE

PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT RUBBER DAM BLADDER AND ANCHOR LINE LAYOUTS
--

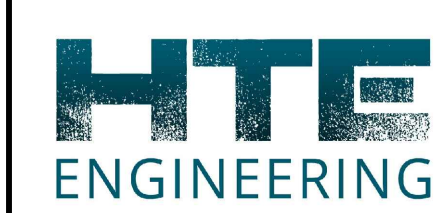
SCALE AS SHOWN 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 91864009
SHEET CODE: M-03
SHEET NUMBER: 95

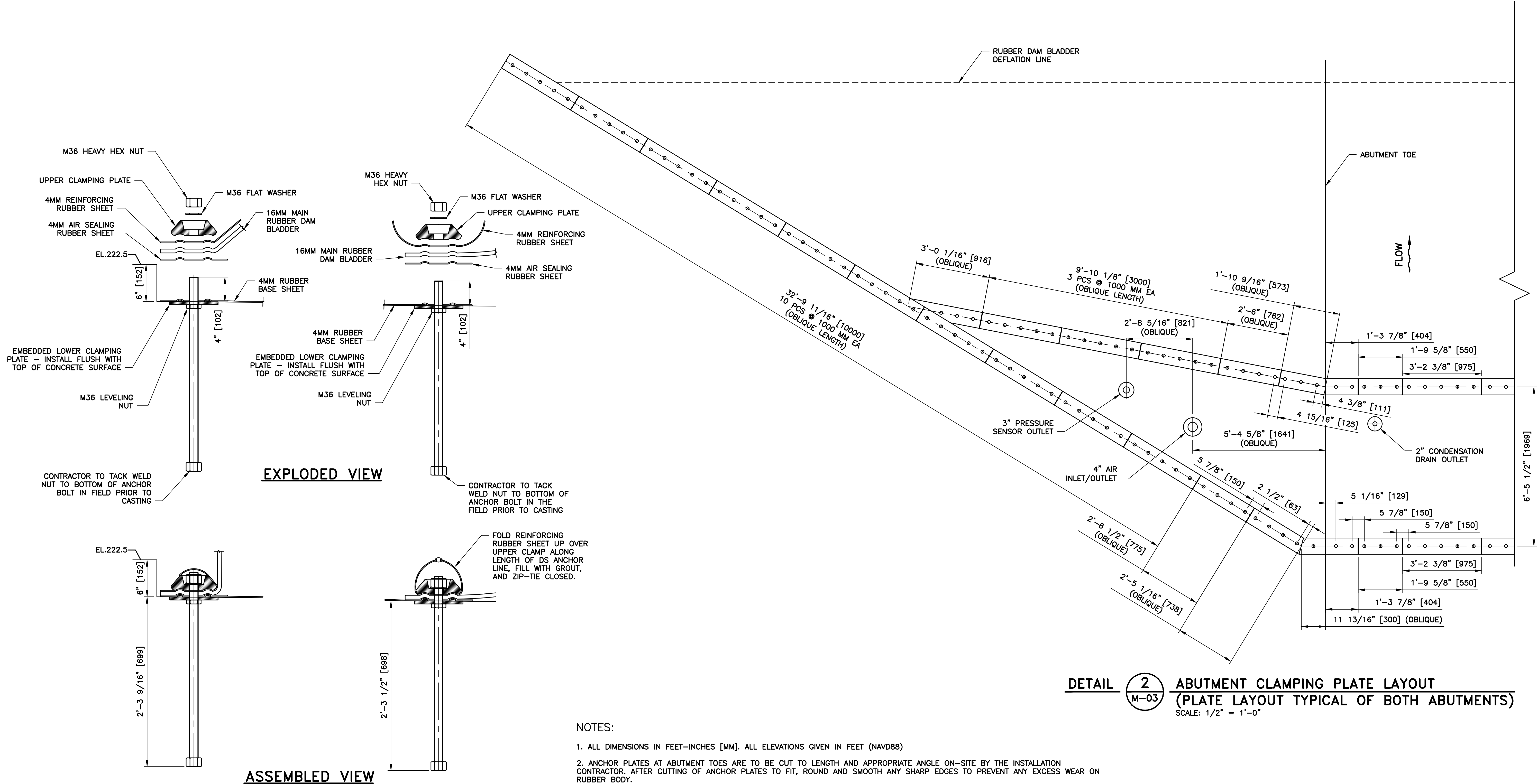
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DOCUMENT NUMBER: COO-M-9248-75938

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

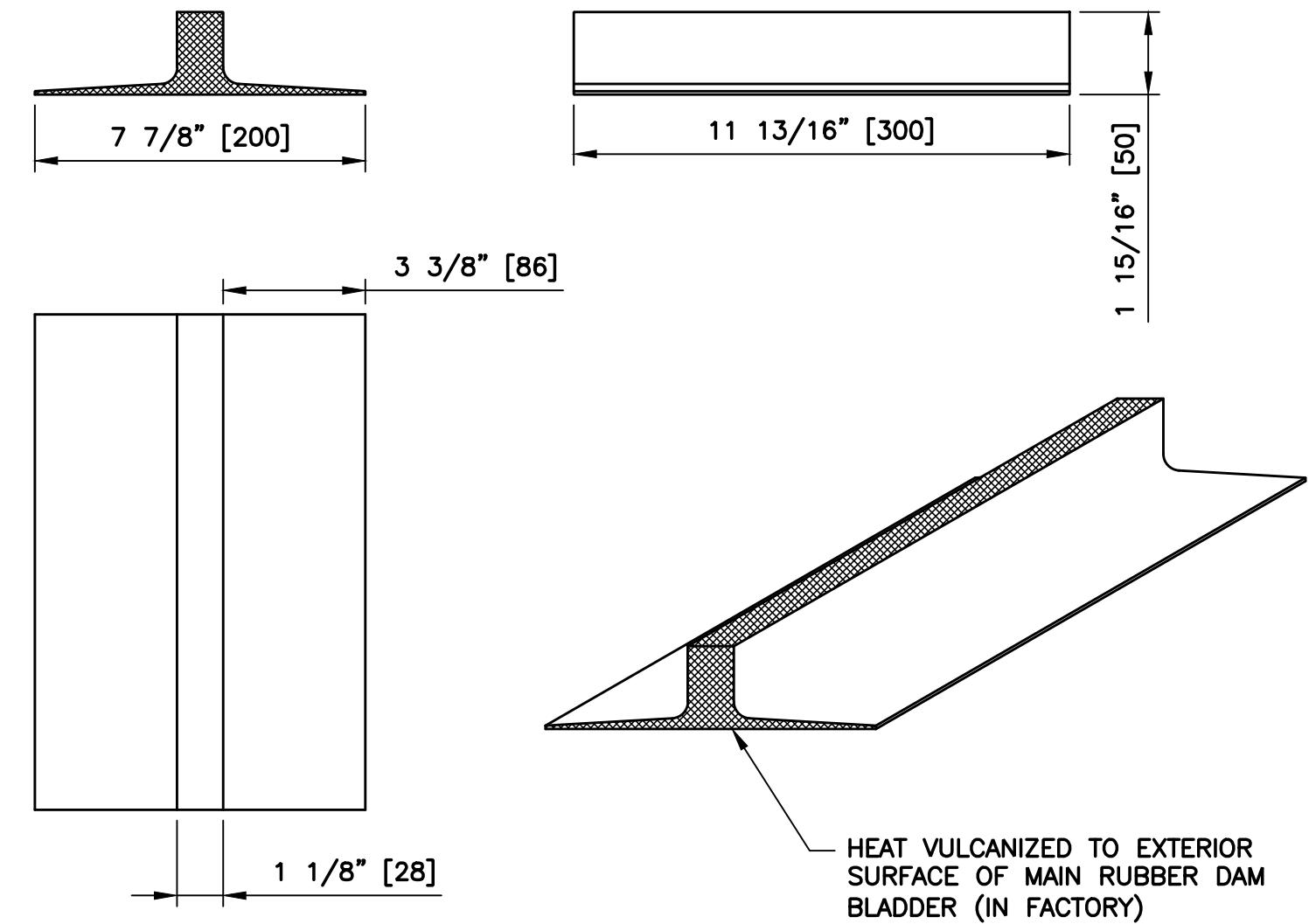
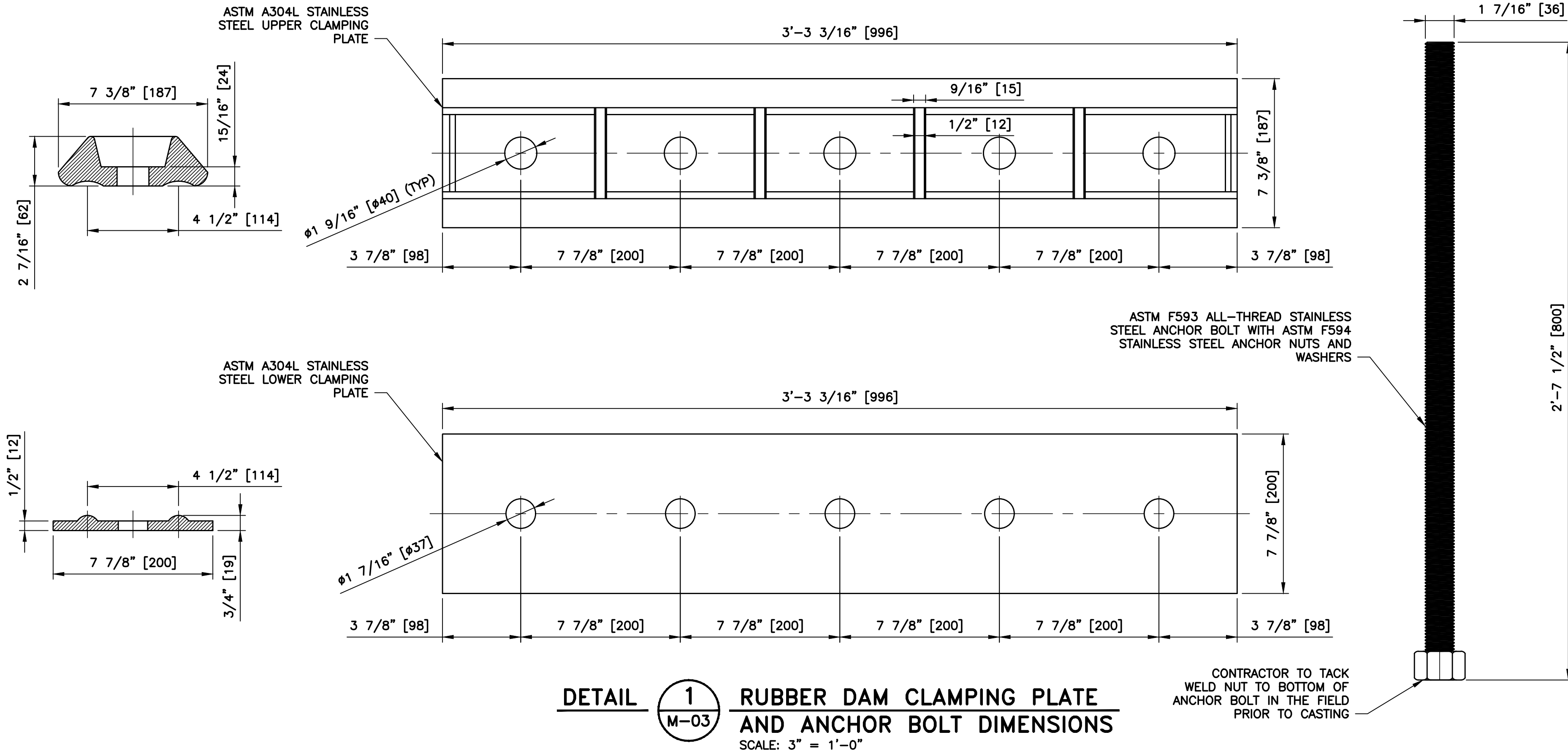
	DATE	ENGINEERING CERTIFICATION		SANTA CLARA VALLEY WATER DISTRICT	
	JAN 2023				
	DESIGN				
	D. SANDERS				
	DRAWN				
	D. SANDERS	CIVIL		PROJECT ENGINEER	
	CHECKED	ENGINEER		ACCEPTED BY DISTRICT	
	G. PAN	DATE		DATE	

PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT		SCALE AS SHOWN	PROJECT NUMBER 91864009
RUBBER DAM CLAMPING DETAILS		VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: M-04
			SHEET NUMBER: 96

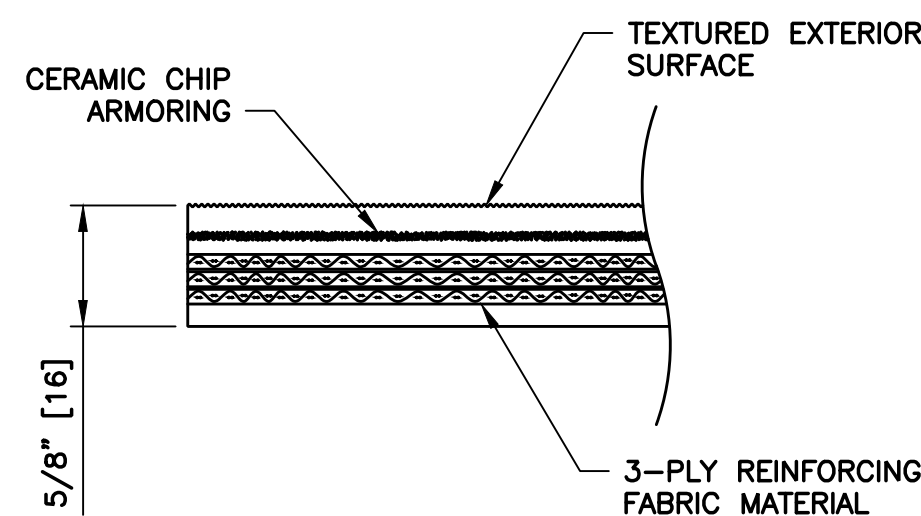


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1/12/2023 4:17 PM
RamaSain

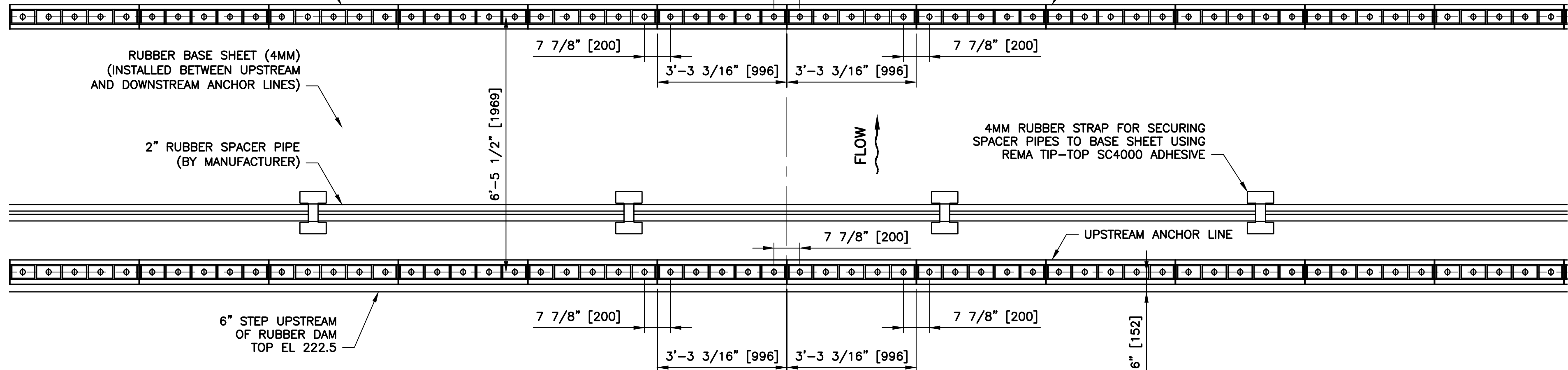
DOCUMENT NUMBER: COO-M-9248-75939



LAYER	THICKNESS
OUTER RUBBER LAYER	7.0 MM
REINFORCING FABRIC LAYER NO. 1	1.7 MM
MIDDLE RUBBER LAYER	0.7 MM
REINFORCING FABRIC LAYER NO. 2	1.7 MM
MIDDLE RUBBER LAYER	0.7 MM
REINFORCING FABRIC LAYER NO. 3	1.7 MM
INNER RUBBER LAYER	2.5 MM



SPECIFIED CAULK FOR USE BETWEEN LOWER CLAMPING PLATES IS SIKAFLEX 1A SEALANT (SUPPLIED BY CONTRACTOR.) INSTALL EMBEDDED LOWER CLAMPING PLATES FLUSH WITH TOP OF CONCRETE SURFACE



NOTES:

- ALL DIMENSIONS IN FEET-INCHES [MM].
- ANCHOR PLATES AT ABUTMENT TOES ARE TO BE CUT TO LENGTH AND APPROPRIATE ANGLE ON-SITE BY THE INSTALLATION CONTRACTOR. AFTER CUTTING OF ANCHOR PLATES TO FIT, ROUND AND SMOOTH ANY SHARP EDGES TO PREVENT ANY EXCESS WEAR ON RUBBER BODY.
- SPECIFIED CAULK FOR USE BETWEEN LOWER CLAMPING PLATES IS SIKAFLEX 1A SEALANT (SUPPLIED BY CONTRACTOR.) INSTALL EMBEDDED LOWER CLAMPING PLATES FLUSH WITH TOP OF CONCRETE SURFACE.

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

HTE
ENGINEERING

DATE
JAN 2023
DESIGN
D. SANDERS
DRAWN
D. SANDERS
CHECKED
G. PAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER
JOHAN LEE
No. C42456
CIVIL
STATE OF CALIFORNIA

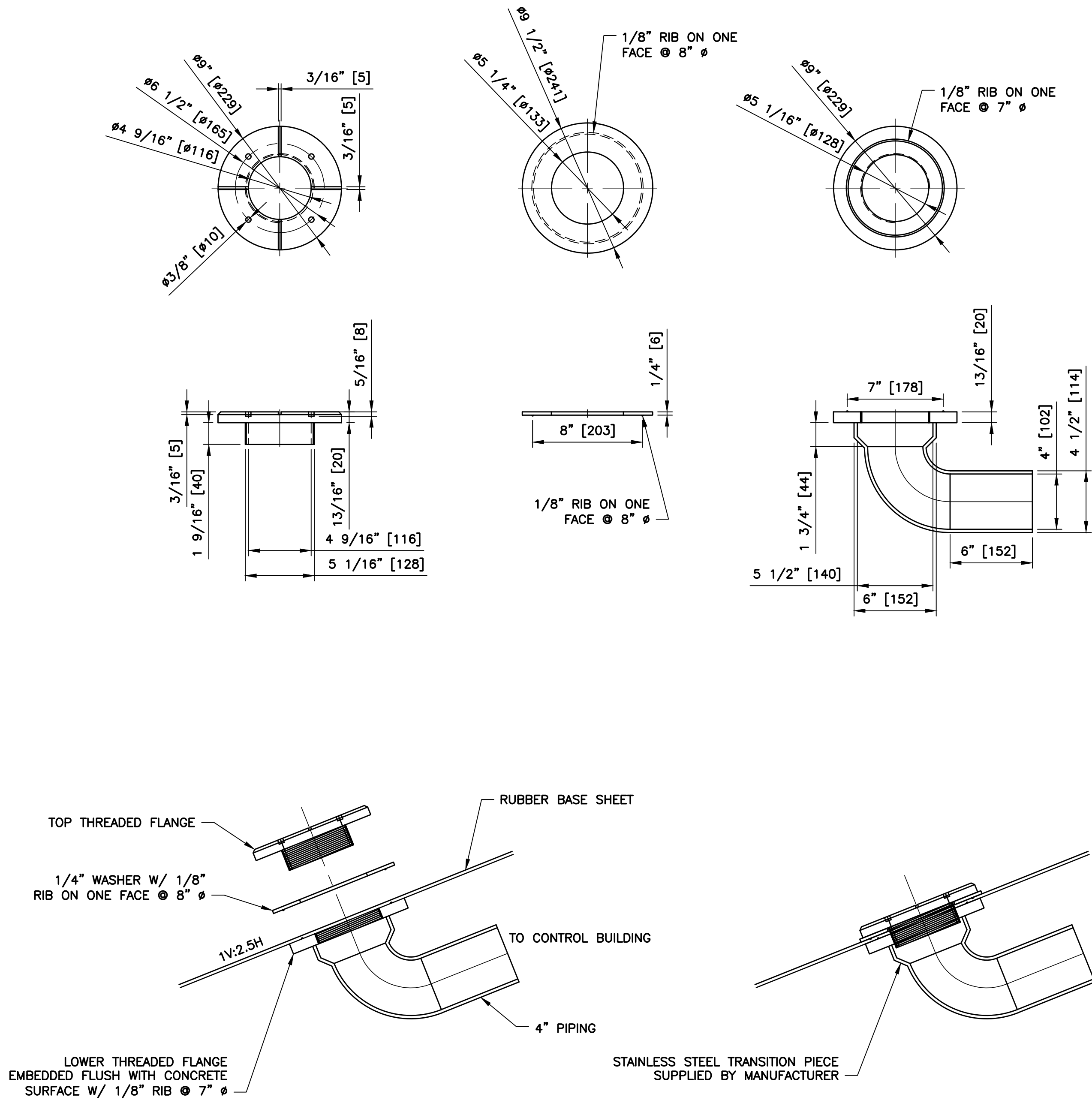
SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
RUBBER DAM COMPONENT DETAILS

SCALE
AS SHOWN
VERIFY SCALES
0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
PROJECT NUMBER
91864009
SHEET CODE:
M-05
SHEET NUMBER:
97

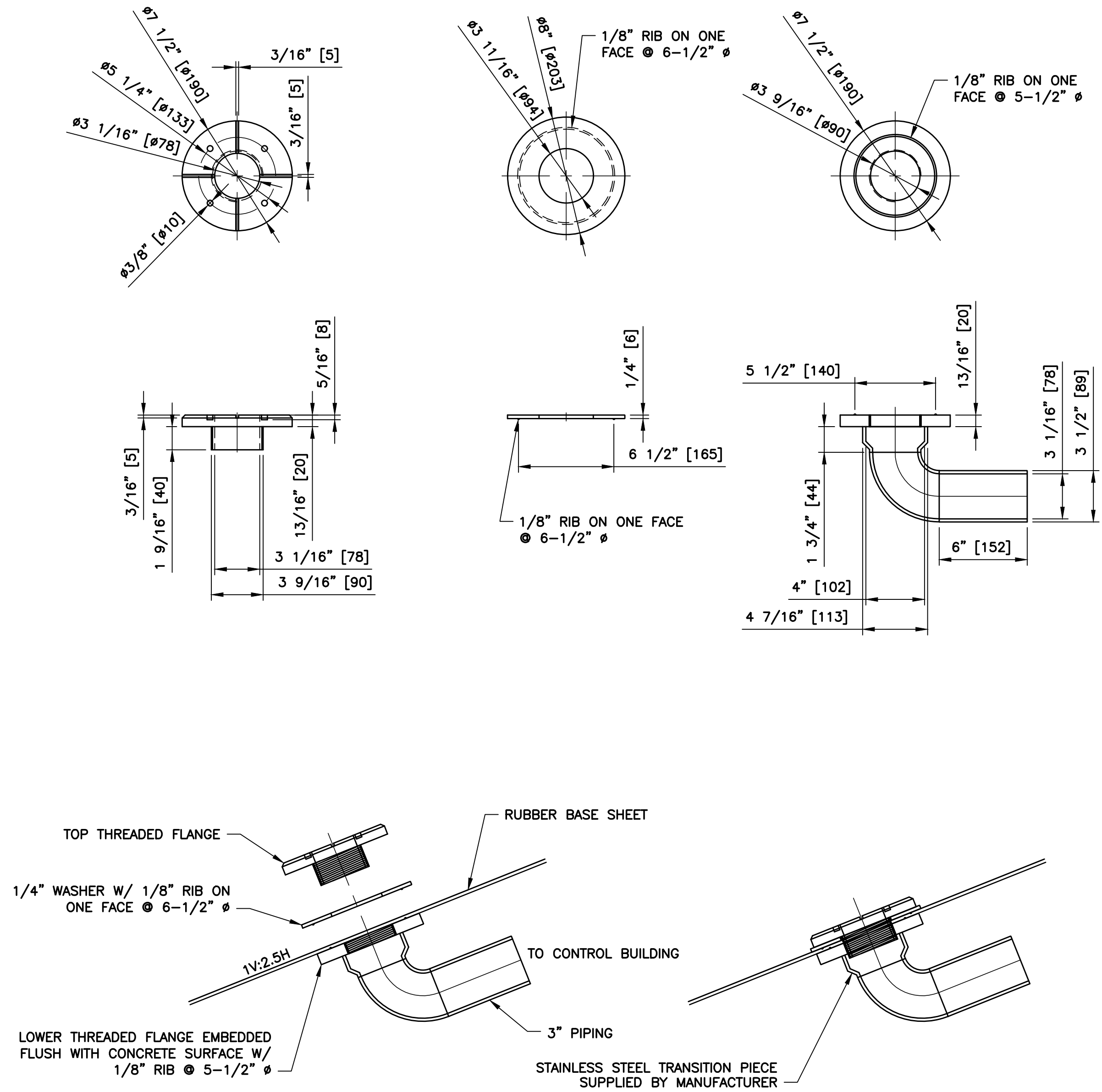
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RamaSain

DOCUMENT NUMBER: COO-M-9248-75940



DETAIL 1 4" AIR INLET / OUTLET FLANGE
M-03

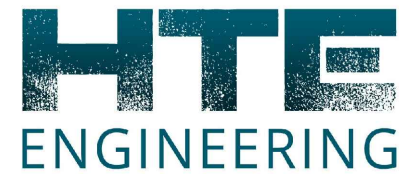
SCALE: 2" = 1'-0"



DETAIL 2 PRESSURE SENSOR OUTLET FLANGE
M-03

SCALE: 2" = 1'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES



DATE
JAN 2023
DESIGN
D. SANDERS
DRAWN
D. SANDERS
CHECKED
G. PAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER
JOHAN LEE
No. C42456
CIVIL
STATE OF CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT



PROJECT ENGINEER ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM
REPLACEMENT PROJECT

RUBBER DAM CONNECTION FLANGE DETAILS

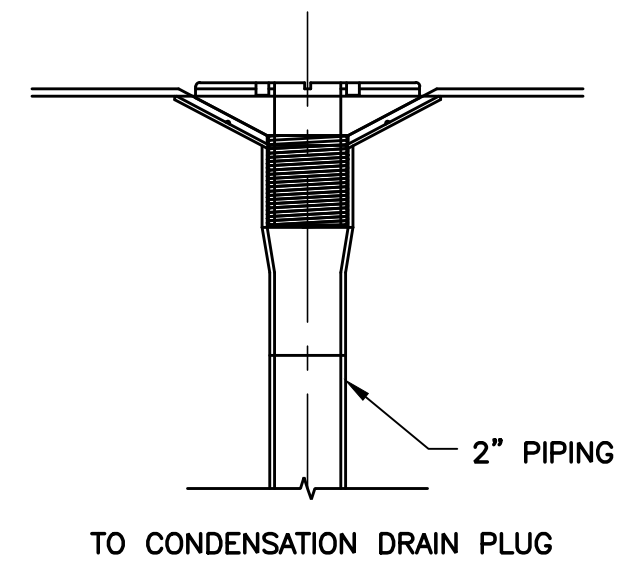
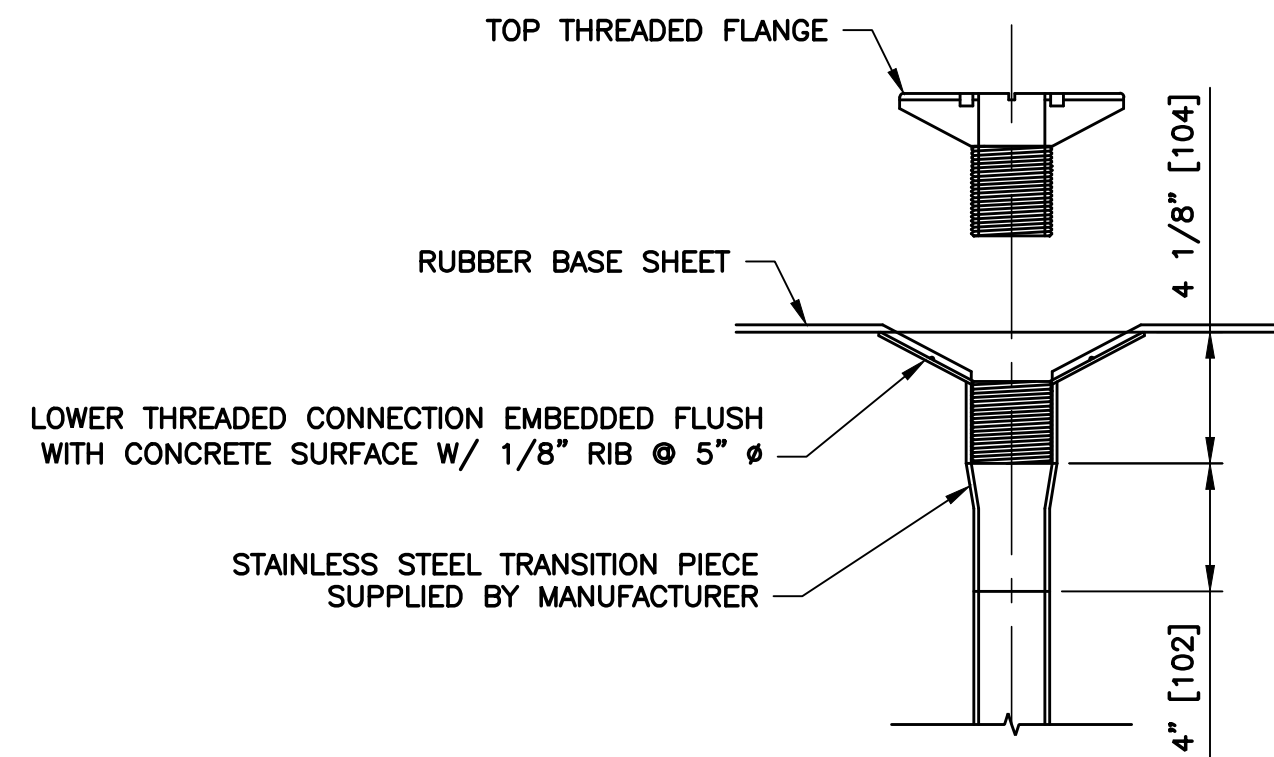
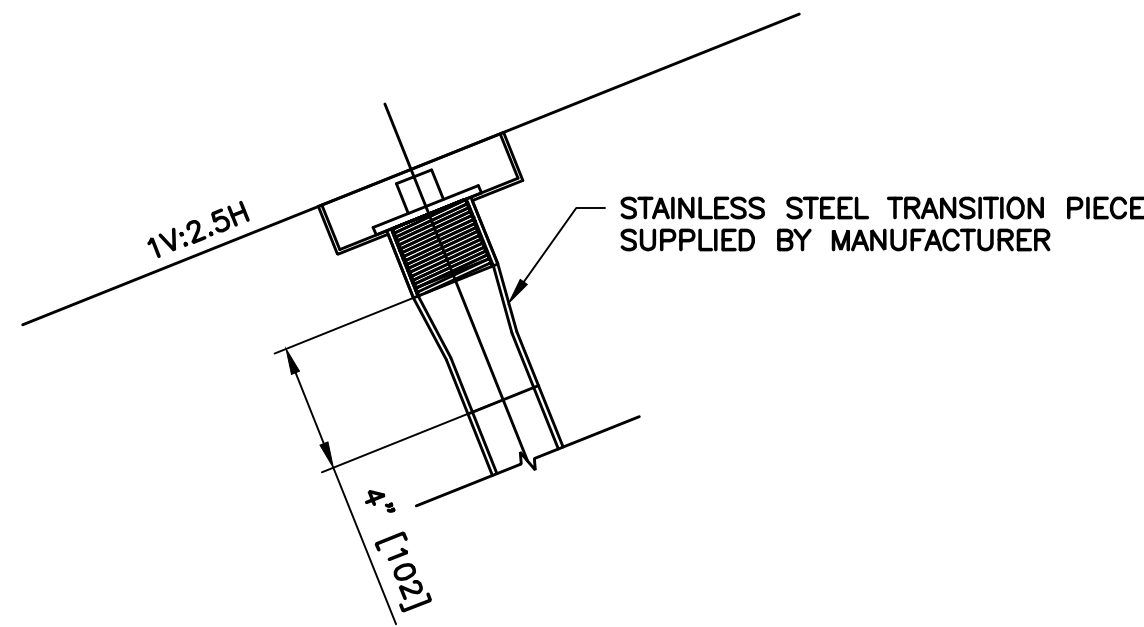
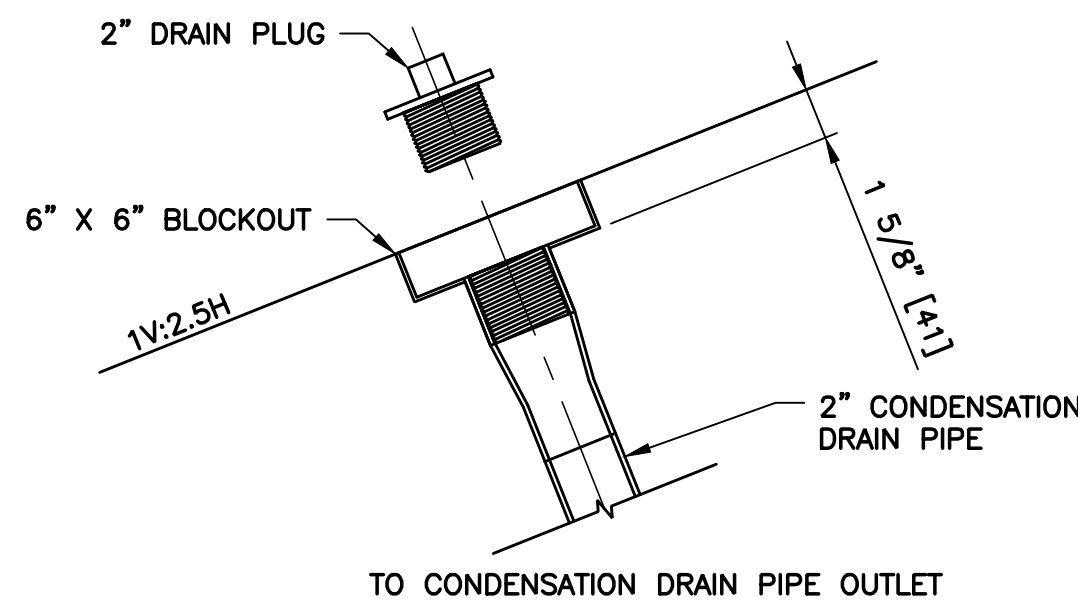
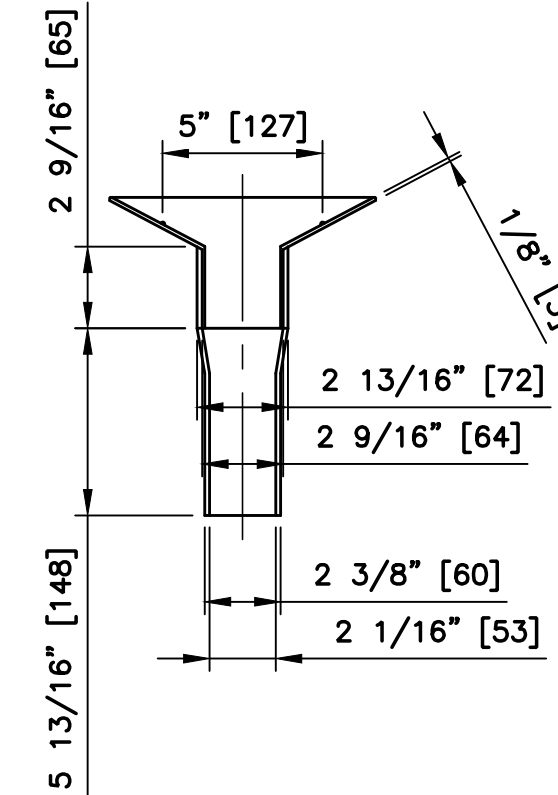
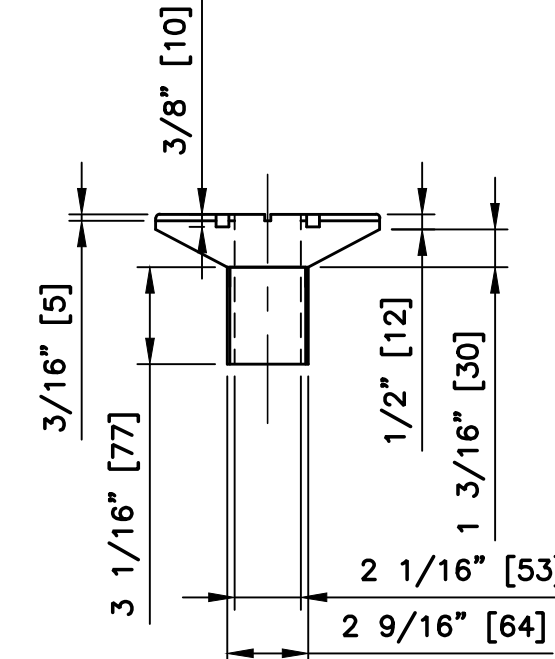
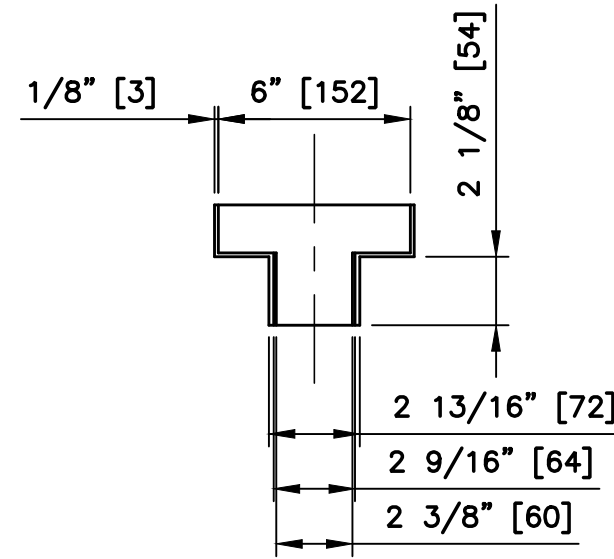
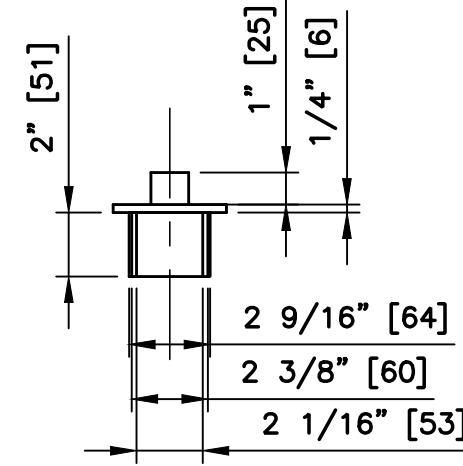
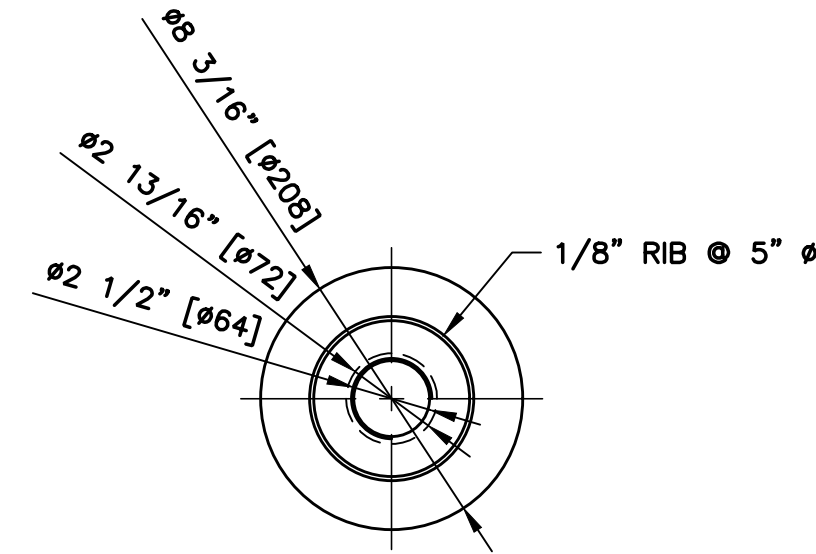
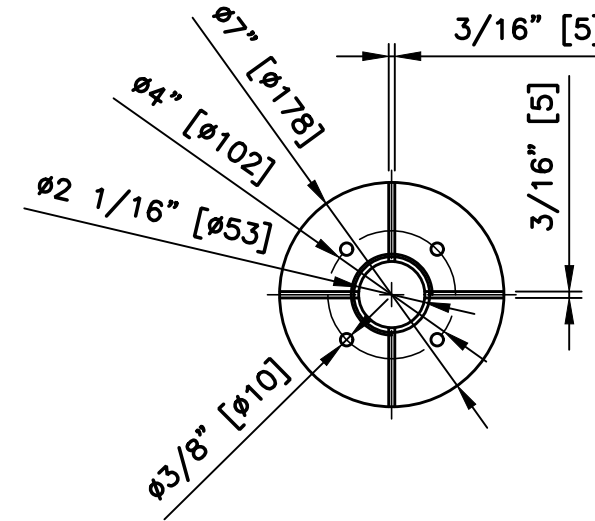
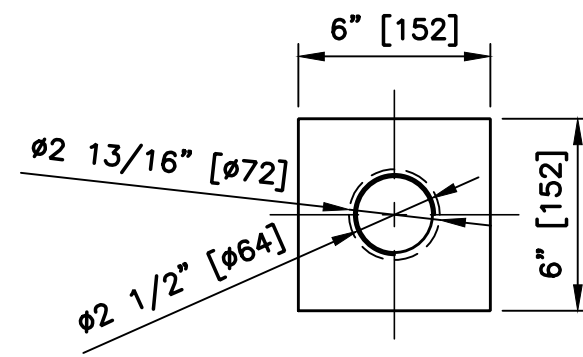
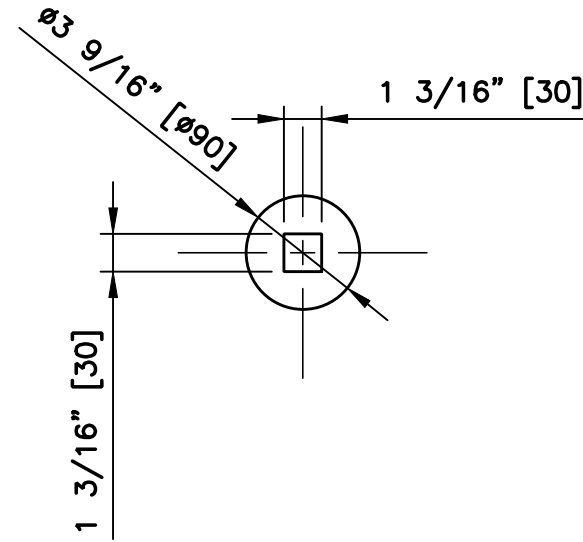
SCALE
AS SHOWN
VERIFY SCALES
0 1"
BAR IS ONE INCH ON
ORIGINAL DRAWING
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

PROJECT NUMBER
91864009
SHEET CODE:
M-06
SHEET NUMBER:
98

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1/12/2023 4:18 PM

DOCUMENT NUMBER: COO-M-9248-75941



DETAIL 1 2" CONDENSATION DRAIN PLUG
SCALE: 2" = 1'-0"

DETAIL 2 2" CONDENSATION DRAIN FLANGE
SCALE: 2" = 1'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

DATE
JAN 2023
DESIGN
D. SANDERS
DRAWN
D. SANDERS
CHECKED
G. PAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER
JOHAN LEE
No. C42456
CIVIL
STATE OF CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT

PROJECT ENGINEER
ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
RUBBER DAM CONNECTION FLANGE DETAILS

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

PROJECT NUMBER
91864009
SHEET CODE:
M-07
SHEET NUMBER:
99

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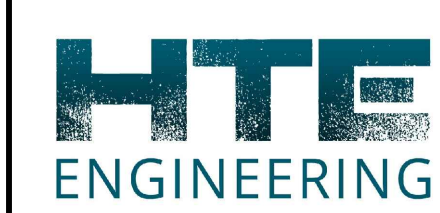
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2

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4

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES



DATE
JAN 2023

DESIGN
D. SANDERS

DRAWN
D. SANDERS

CHECKED
G. PAN

ENGINEERING CERTIFICATION



ENGINEER

SANTA CLARA VALLEY WATER DISTRICT



PROJECT ENGINEER

ACCEPTED BY DISTRICT

DATE

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
CONTROL BUILDING PLAN AND ELEVATION VIEWS

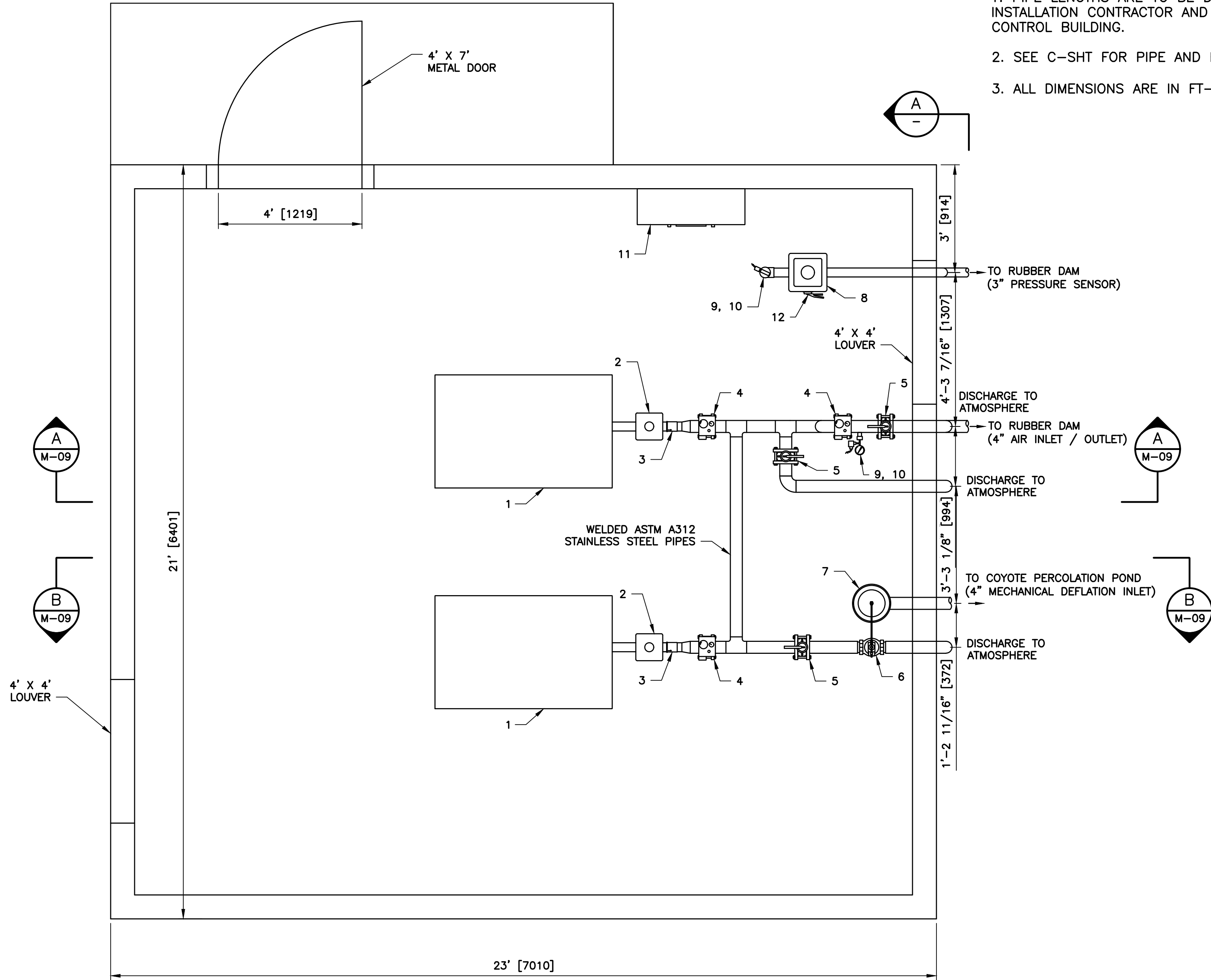
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AS SHOWN

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

PROJECT NUMBER
91864009

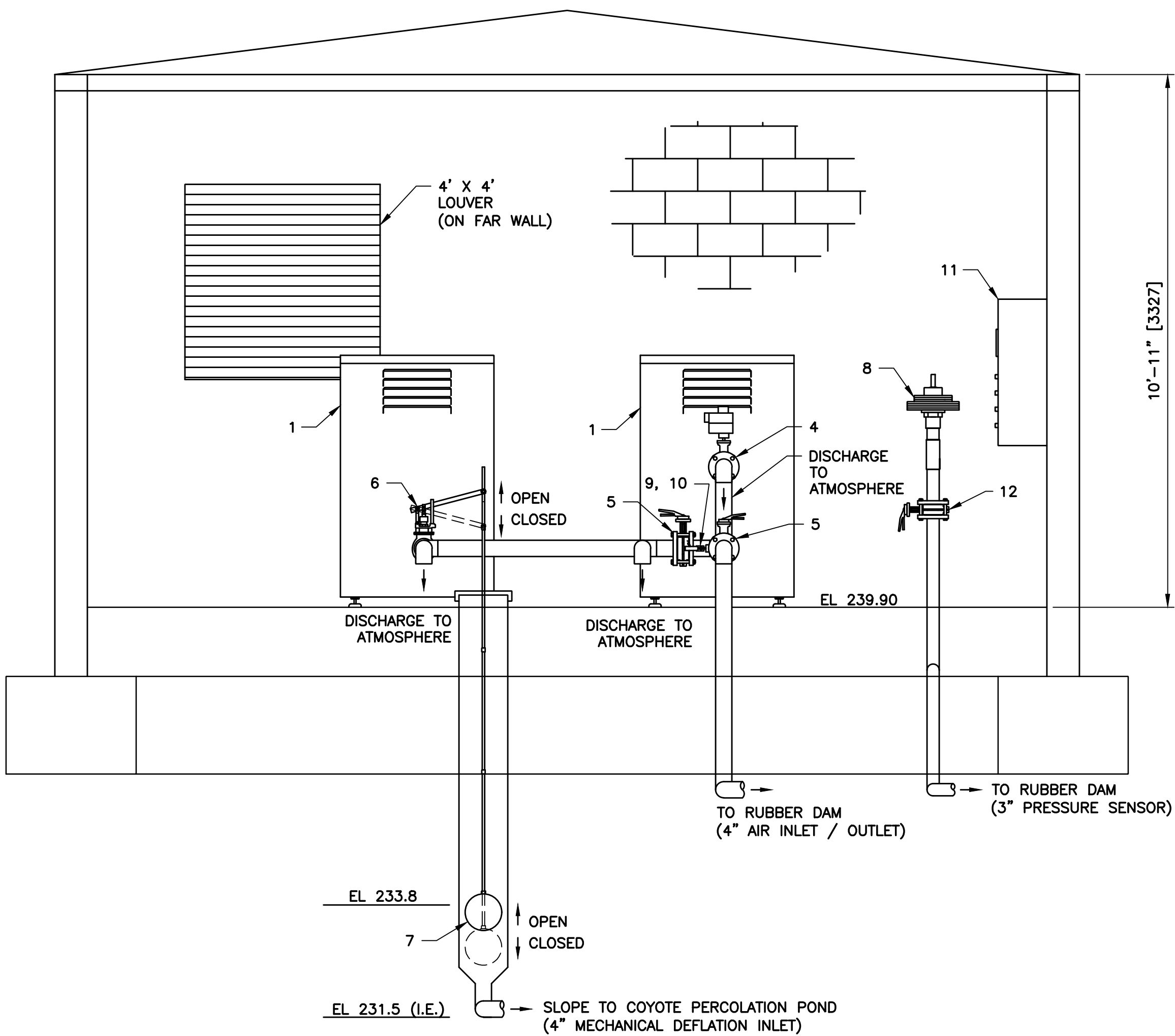
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M-08

SHEET NUMBER:
100



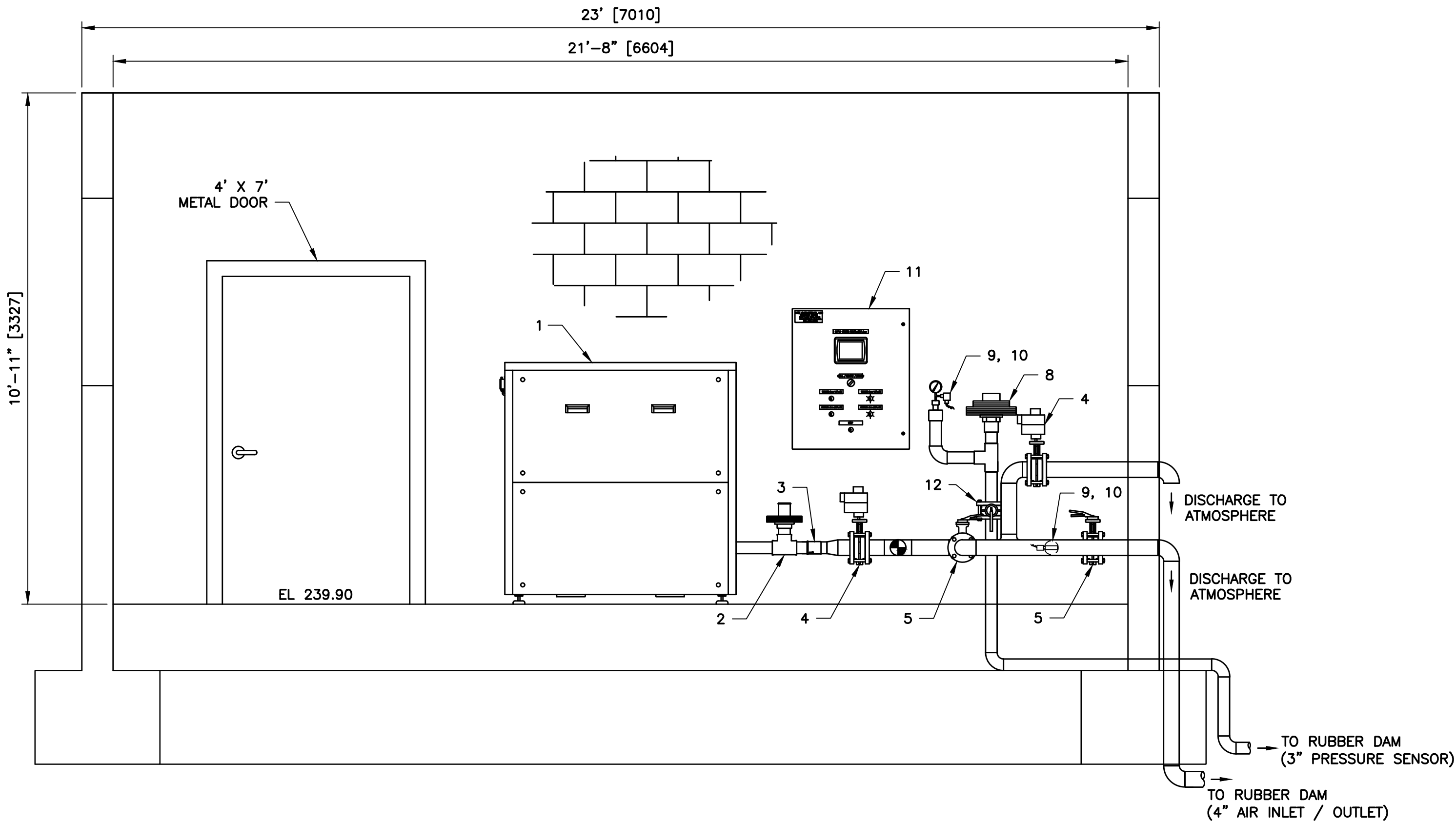
- NOTES:
- PIPE LENGTHS ARE TO BE DETERMINED AND CUT TO FIT ON-SITE BY INSTALLATION CONTRACTOR AND BASED ON THE AVAILABLE SPACE IN THE CONTROL BUILDING.
 - SEE C-SHT FOR PIPE AND EQUIPMENT SUPPORTS.
 - ALL DIMENSIONS ARE IN FT-IN [MM] UNLESS OTHERWISE NOTED.

INFLATION CONTROL COMPONENTS – BILL OF MATERIALS		
NO.	ITEM	QTY
1	15 HP ROOTS PD BLOWER W/ ENCLOSURE	2
2	BLOWER PRESSURE RELIEF VALVE	2
3	BLOWER CHECK VALVE	2
4	4-IN ELECTRIC ACTUATED BUTTERFLY VALVE	3
5	4-IN MANUAL BUTTERFLY VALVE	3
6	EMERGENCY MECHANICAL DEFLATION FLOAT VALVE	1
7	9-IN FLOAT	1
8	3-IN MNPT WEIGHTED PRESSURE RELIEF VALVE	1
9	ANALOG PRESSURE GAUGE	2
10	4-20MA PRESSURE TRANSDUCER	2
11	RUBBER DAM CONTROL PANEL	1
12	3-IN MANUAL BUTTERFLY VALVE	1
13	4-20MA WATER LEVEL SENSOR (NOT SHOWN)	2

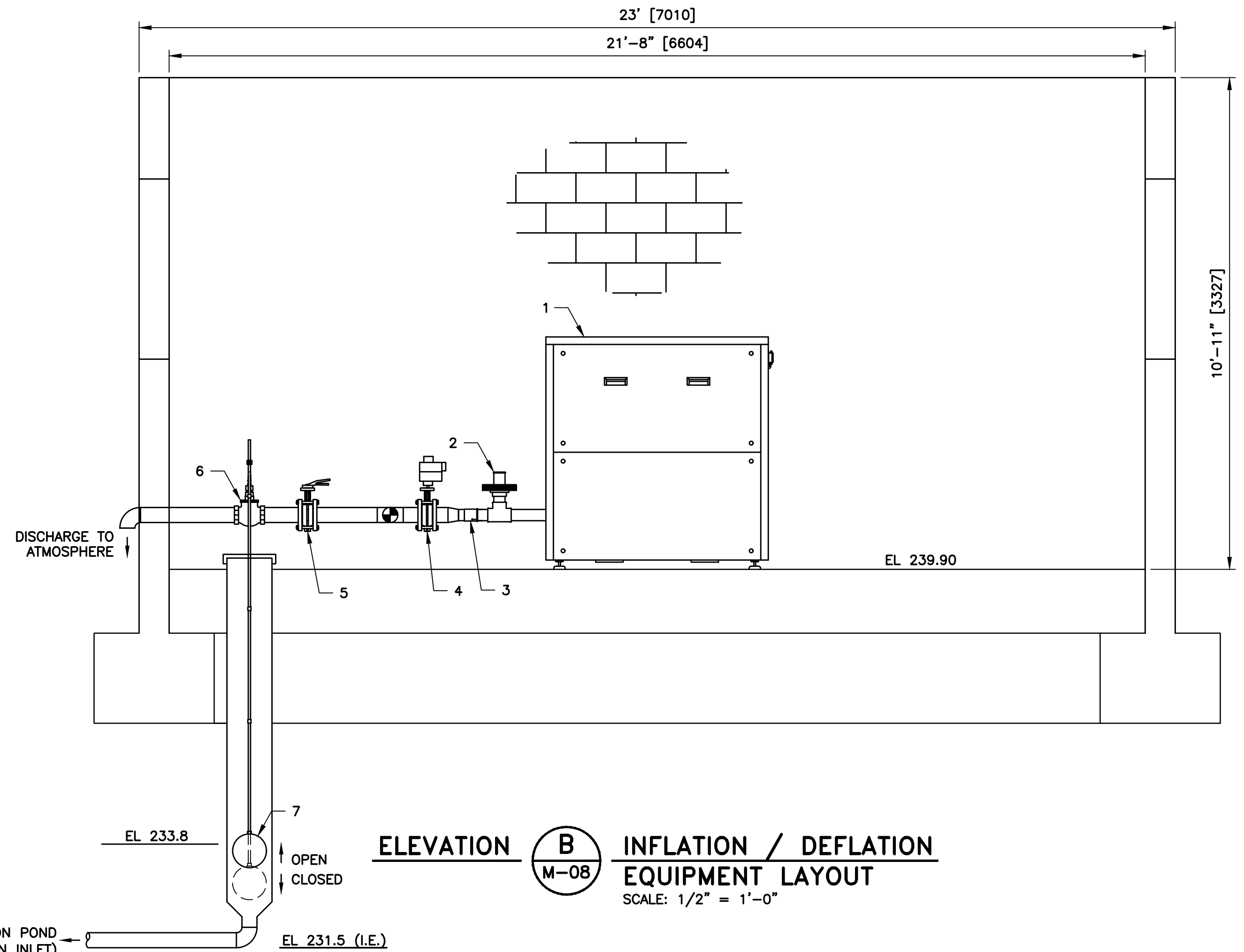


\\srville\engineering plans\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\M-09.dwg

DOCUMENT NUMBER: COO-M-9248-75943



ELEVATION **A** INFLATION / DEFLATION
M-08 EQUIPMENT LAYOUT
SCALE: 1/2" = 1'-0"



ELEVATION **B** INFLATION / DEFLATION
M-08 EQUIPMENT LAYOUT
SCALE: 1/2" = 1'-0"

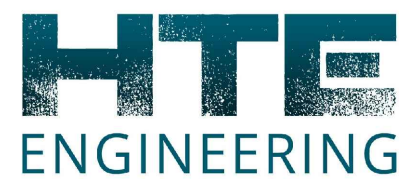
NOTES:

- PIPE LENGTHS ARE TO BE DETERMINED AND CUT TO FIT ON-SITE BY INSTALLATION CONTRACTOR AND BASED ON THE AVAILABLE SPACE IN THE CONTROL BUILDING.
- SEE DET 4, SHT C-25 FOR PIPE AND EQUIPMENT SUPPORTS. SEE DET 7, SHT 25 FOR PIPING PENETRATION THROUGH WALL.
- ALL DIMENSIONS ARE IN FT-IN [MM] UNLESS OTHERWISE NOTED.

INFLATION CONTROL COMPONENTS - BILL OF MATERIALS

NO.	ITEM	QTY
1	15 HP ROOTS PD BLOWER W/ ENCLOSURE	2
2	BLOWER PRESSURE RELIEF VALVE	2
3	BLOWER CHECK VALVE	2
4	4-IN ELECTRIC ACTUATED BUTTERFLY VALVE	3
5	4-IN MANUAL BUTTERFLY VALVE	3
6	EMERGENCY MECHANICAL DEFLATION FLOAT VALVE	1
7	9-IN FLOAT	1
8	3-IN MNPT WEIGHTED PRESSURE RELIEF VALVE	1
9	ANALOG PRESSURE GAUGE	2
10	4-20MA PRESSURE TRANSDUCER	2
11	RUBBER DAM CONTROL PANEL	1
12	3-IN MANUAL BUTTERFLY VALVE	1
13	4-20MA WATER LEVEL SENSOR (NOT SHOWN)	2

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES



DATE
JAN 2023
DESIGN
D. SANDERS
DRAWN
D. SANDERS
CHECKED
G. PAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER
JOHAN LEE
No. C42456
CIVIL
STATE OF CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT



PROJECT ENGINEER ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM
REPLACEMENT PROJECT

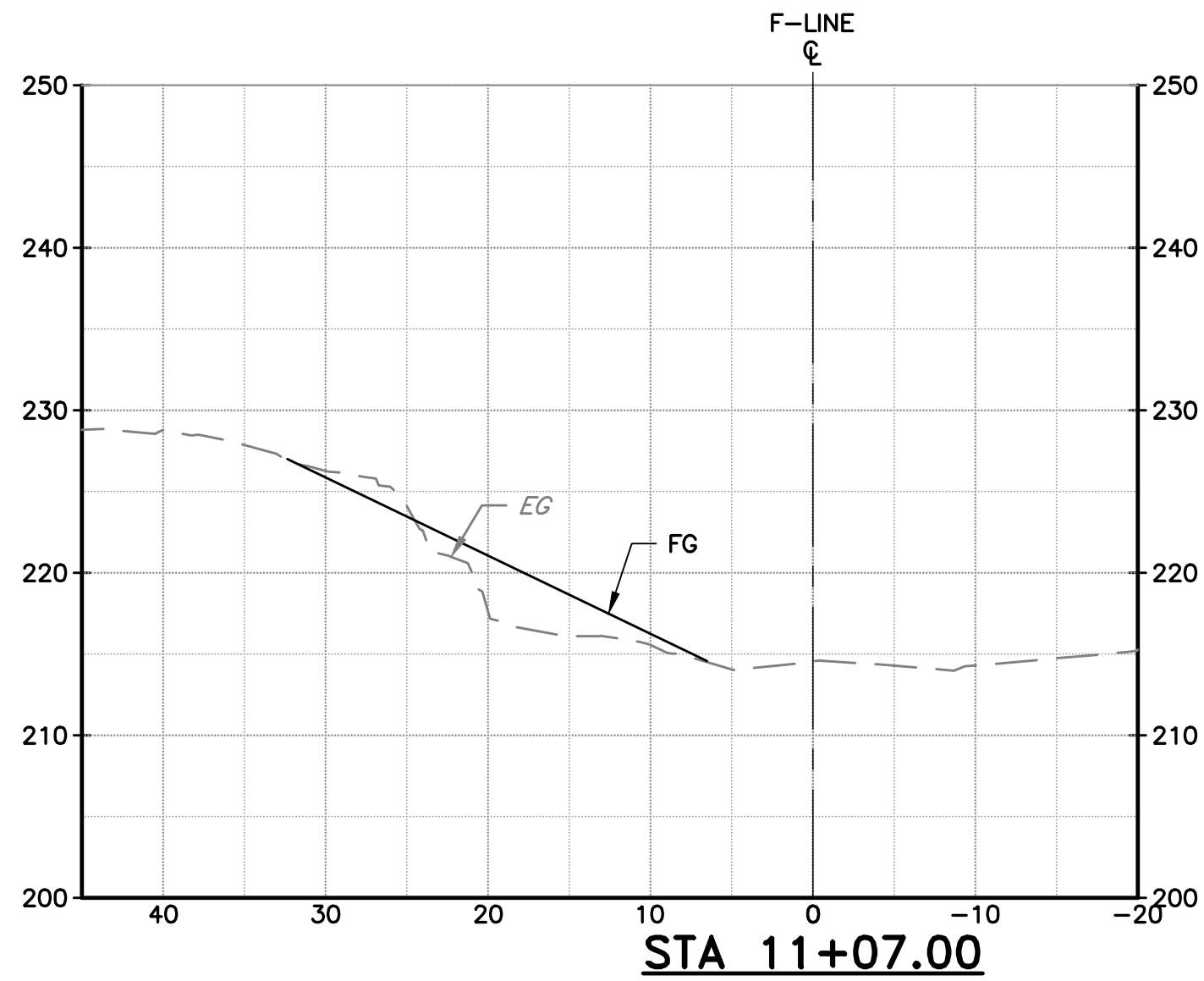
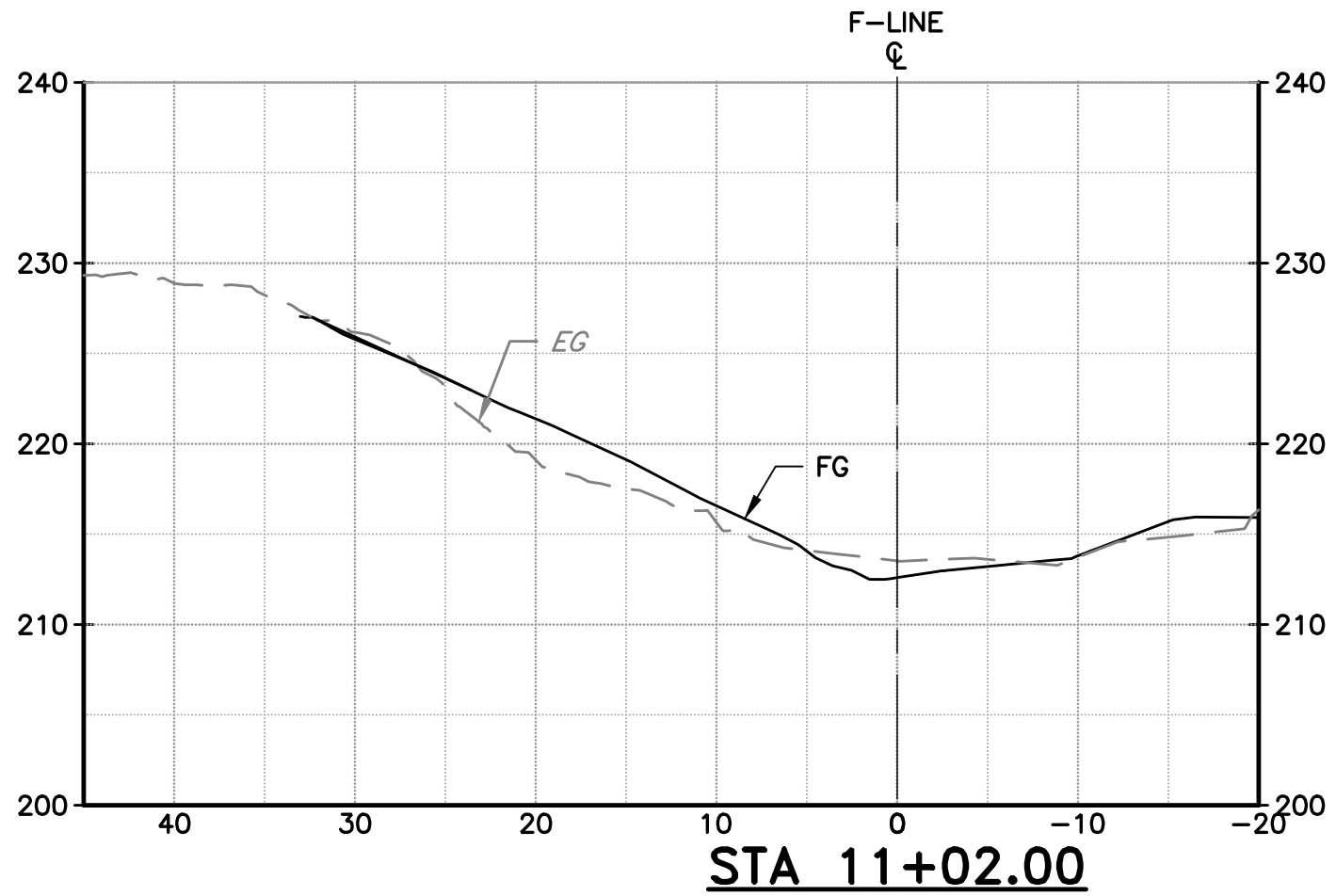
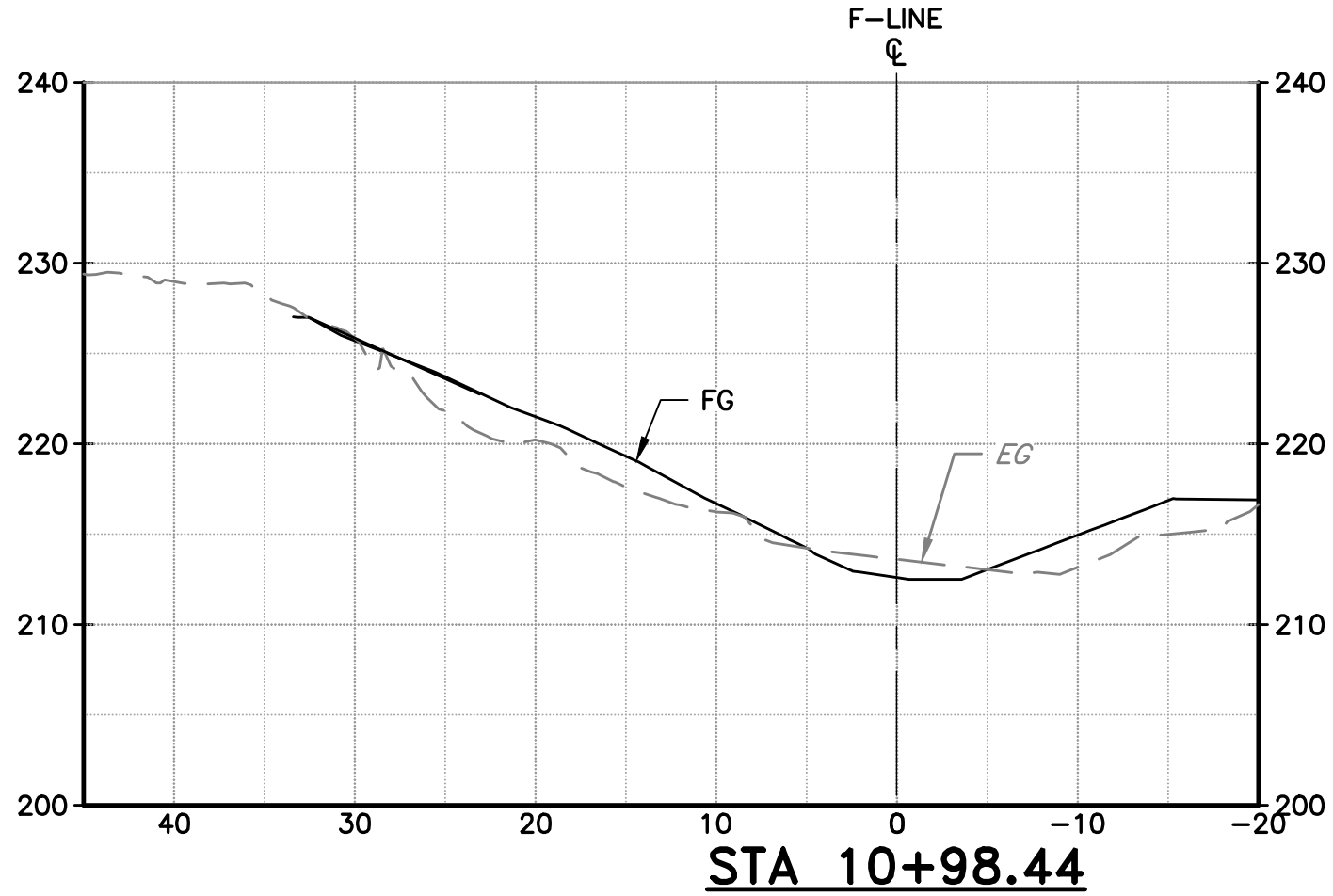
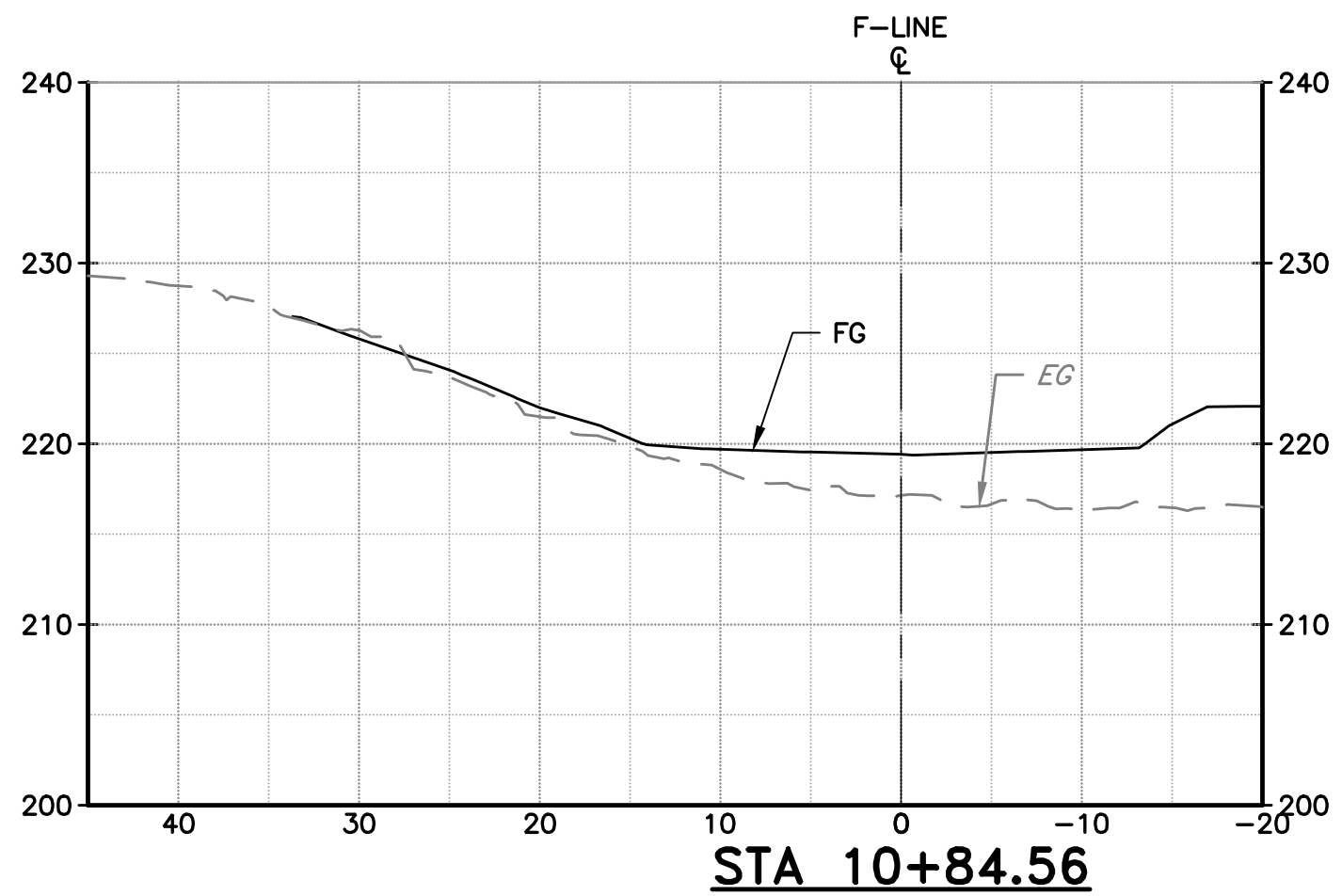
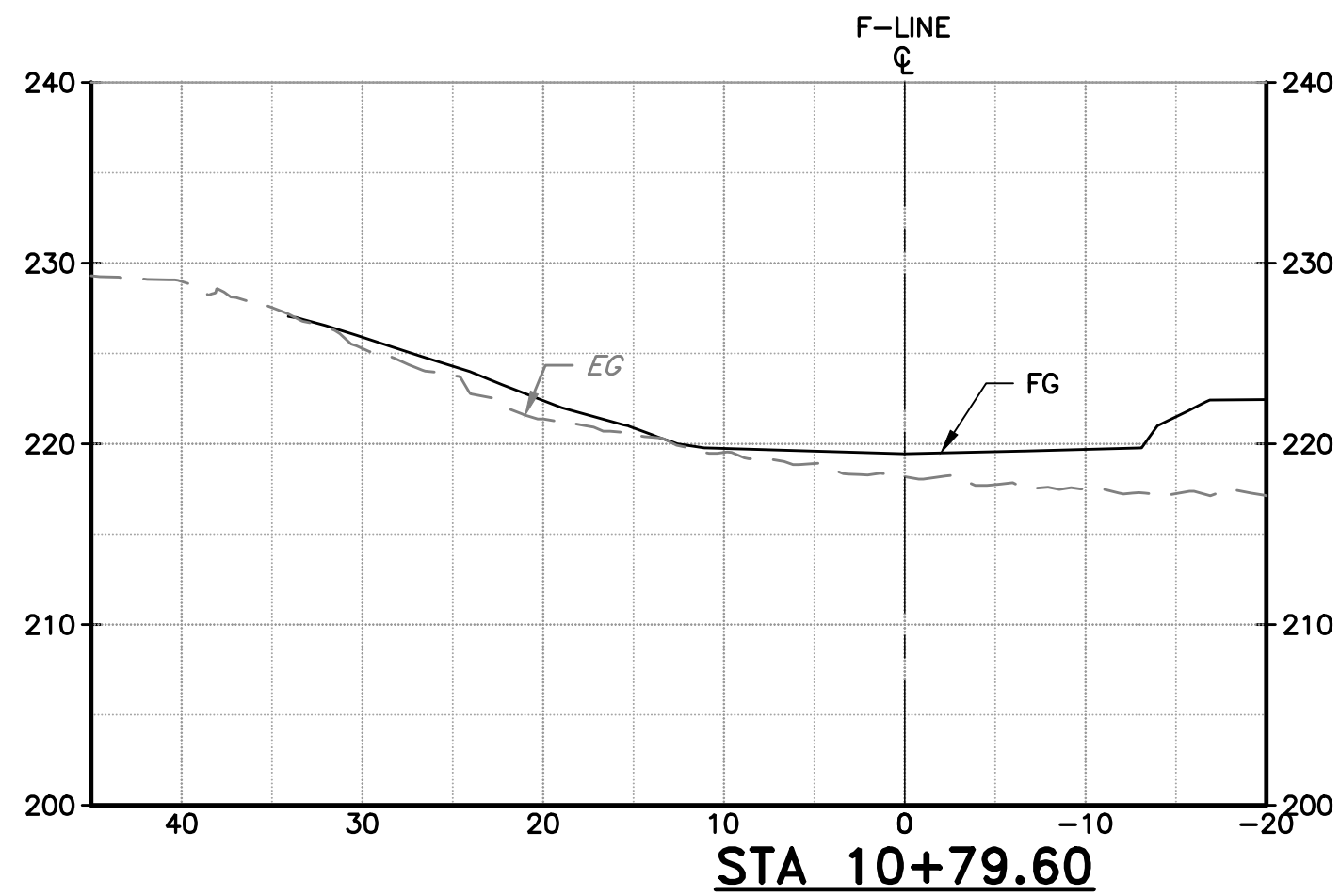
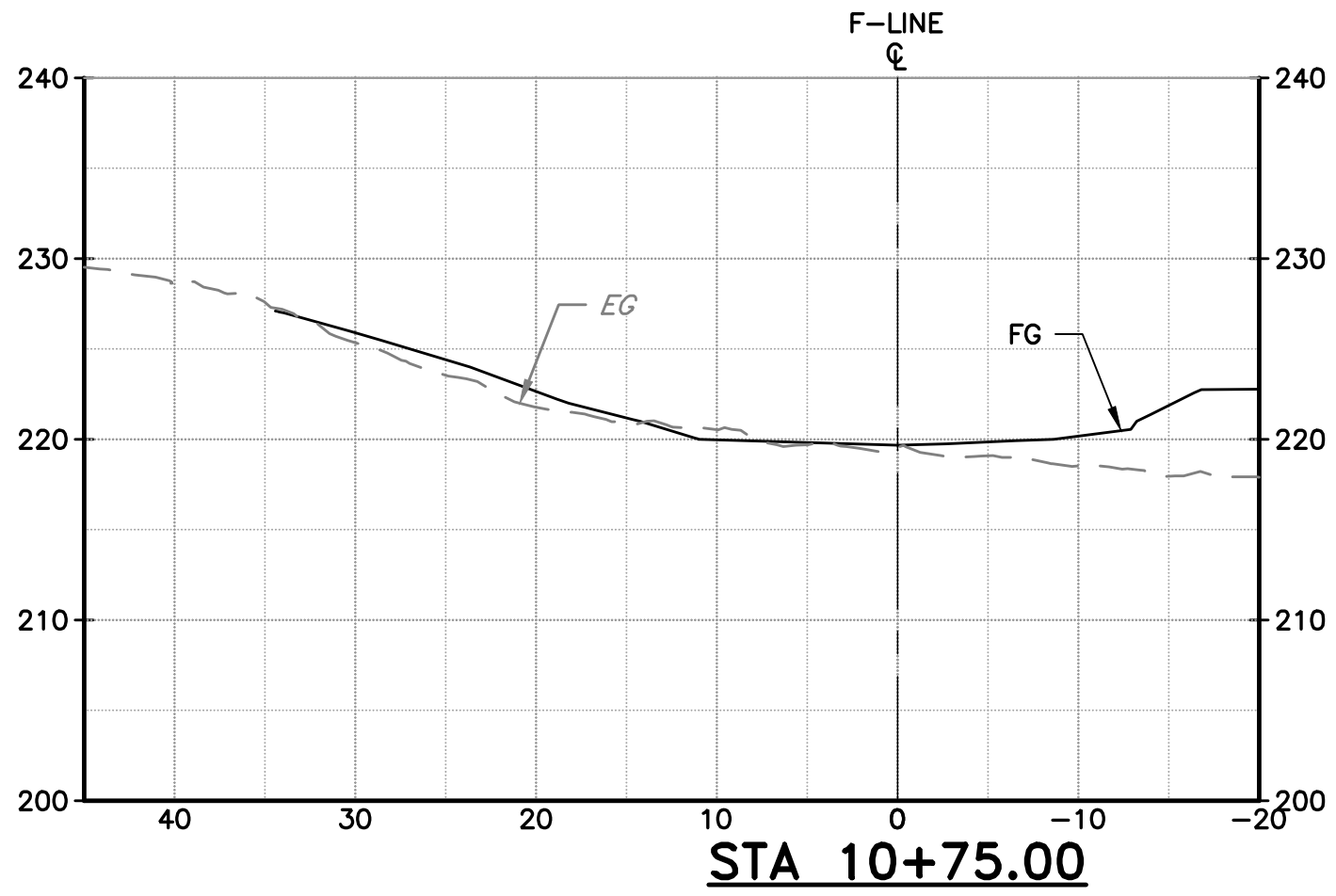
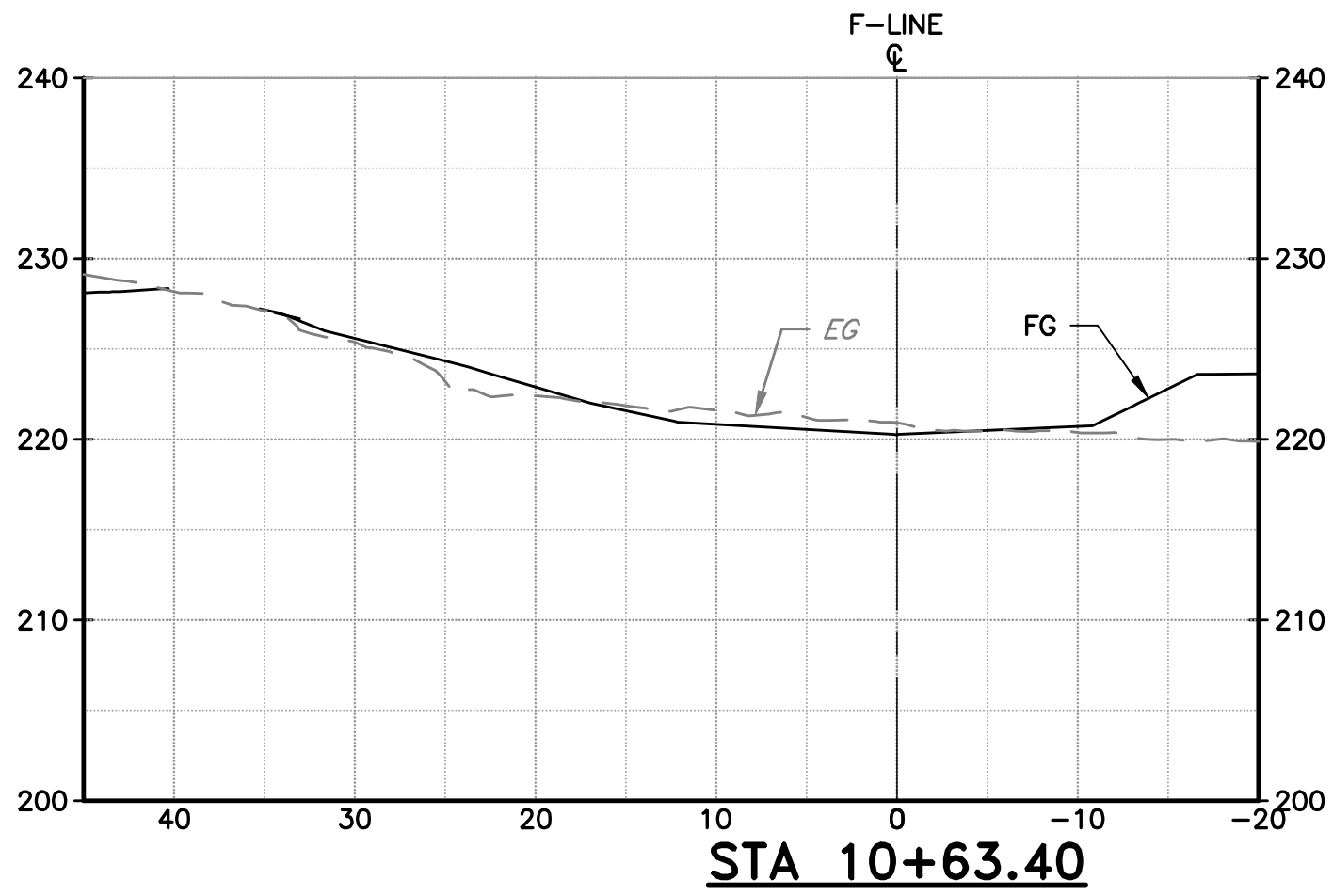
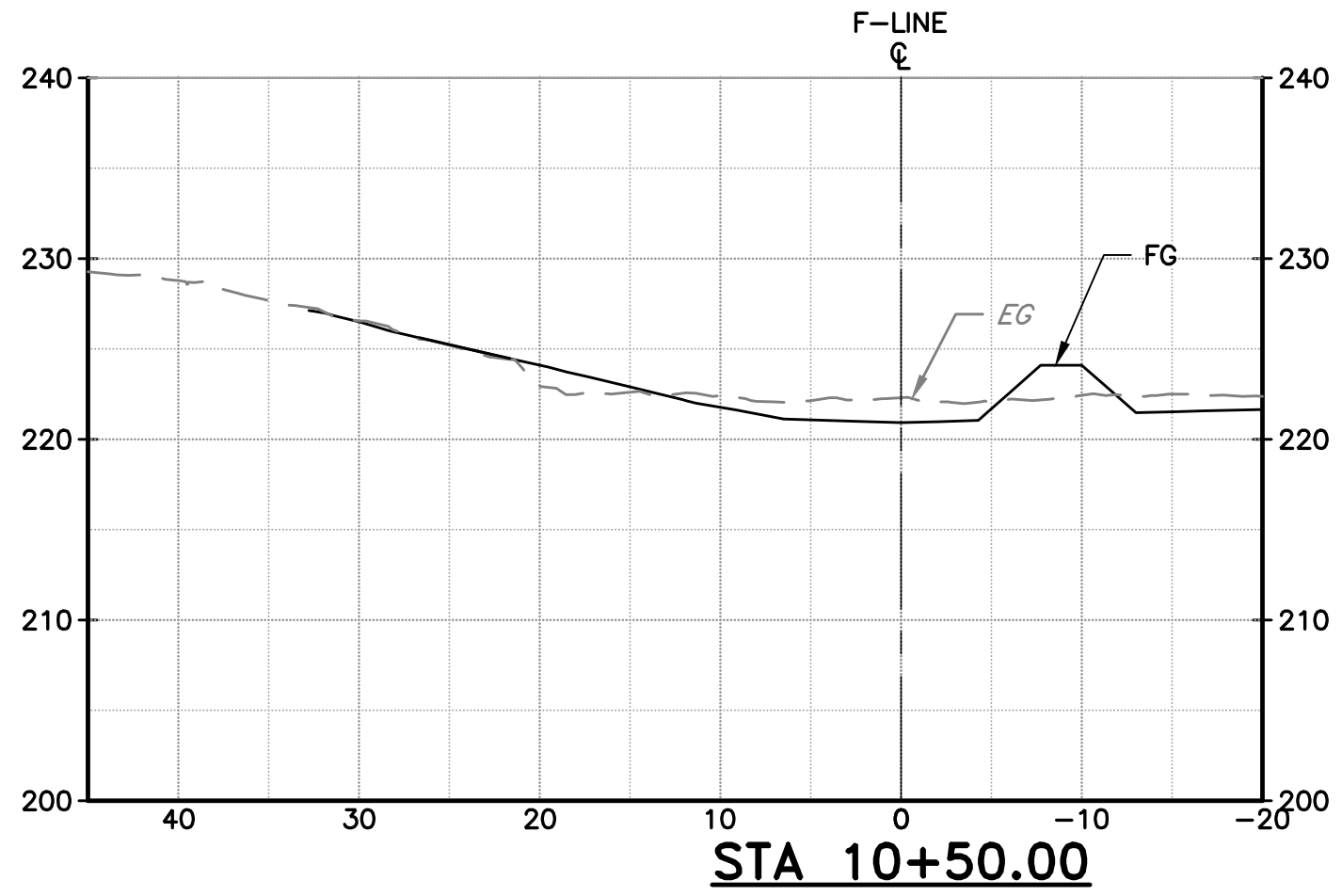
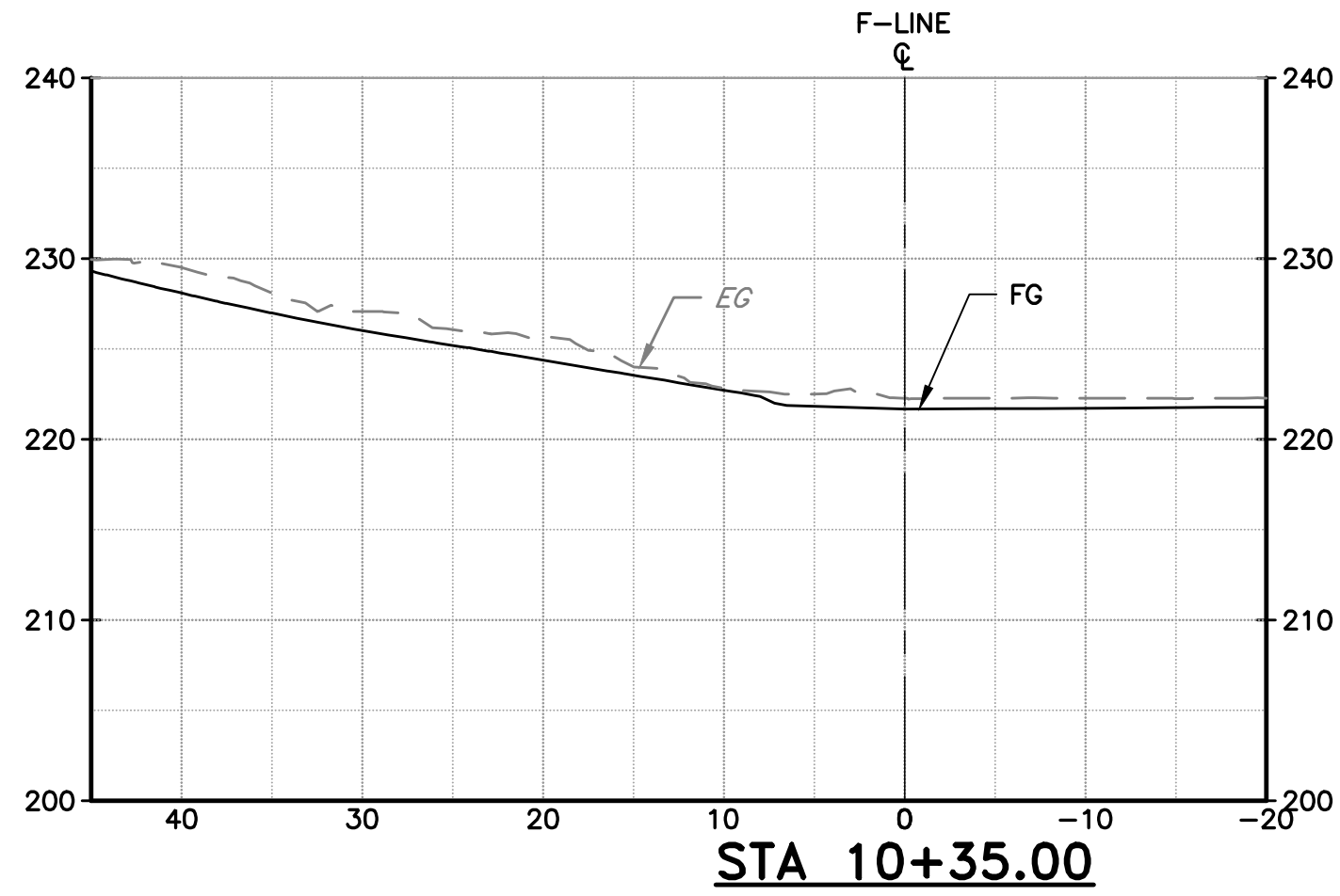
CONTROL BUILDING ELEVATION VIEWS

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

PROJECT NUMBER
91864009
SHEET CODE:
M-09
SHEET NUMBER:
101

USERNAME: OscarReyn 1/12/2023 5:01 PM
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DOCUMENT NUMBER: C00-X-9248-75944

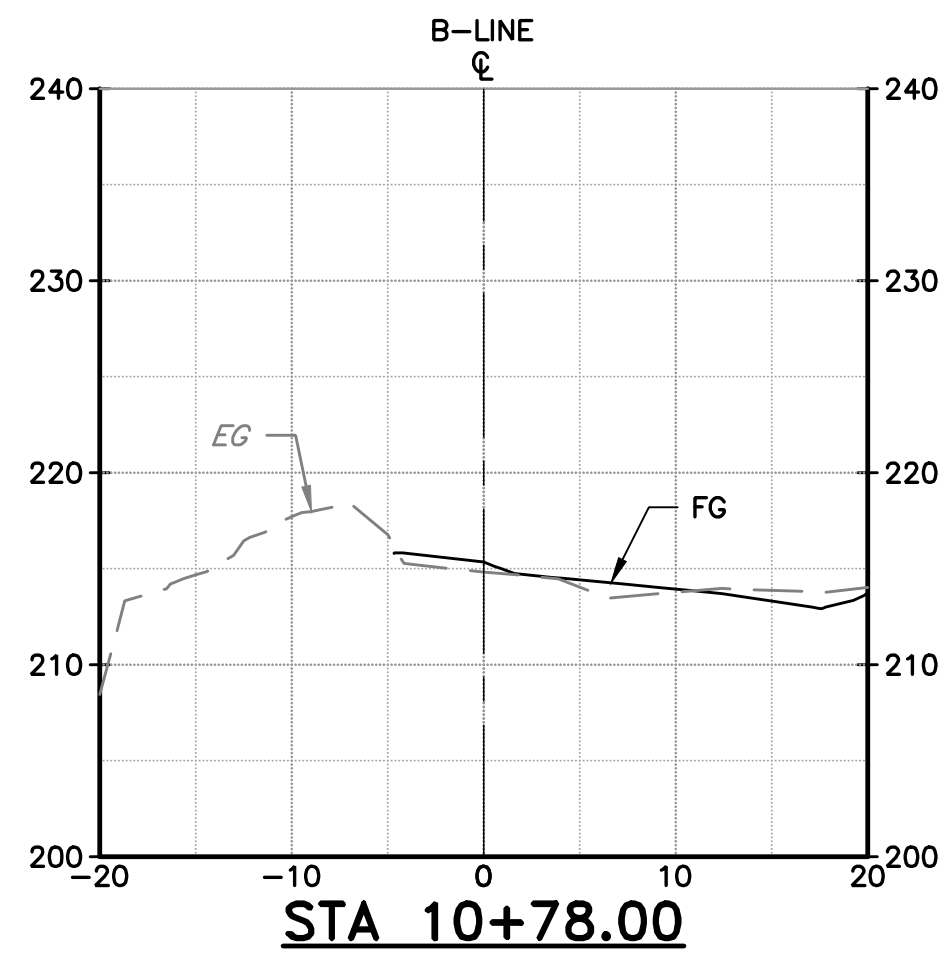
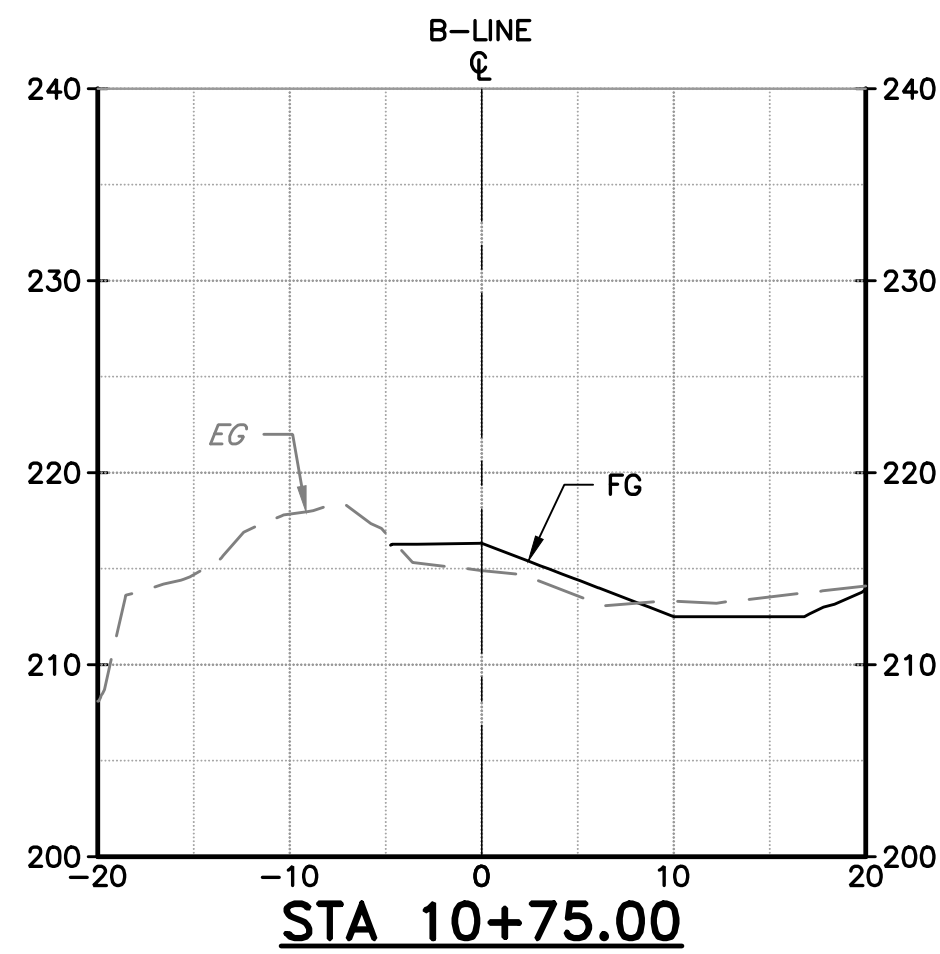
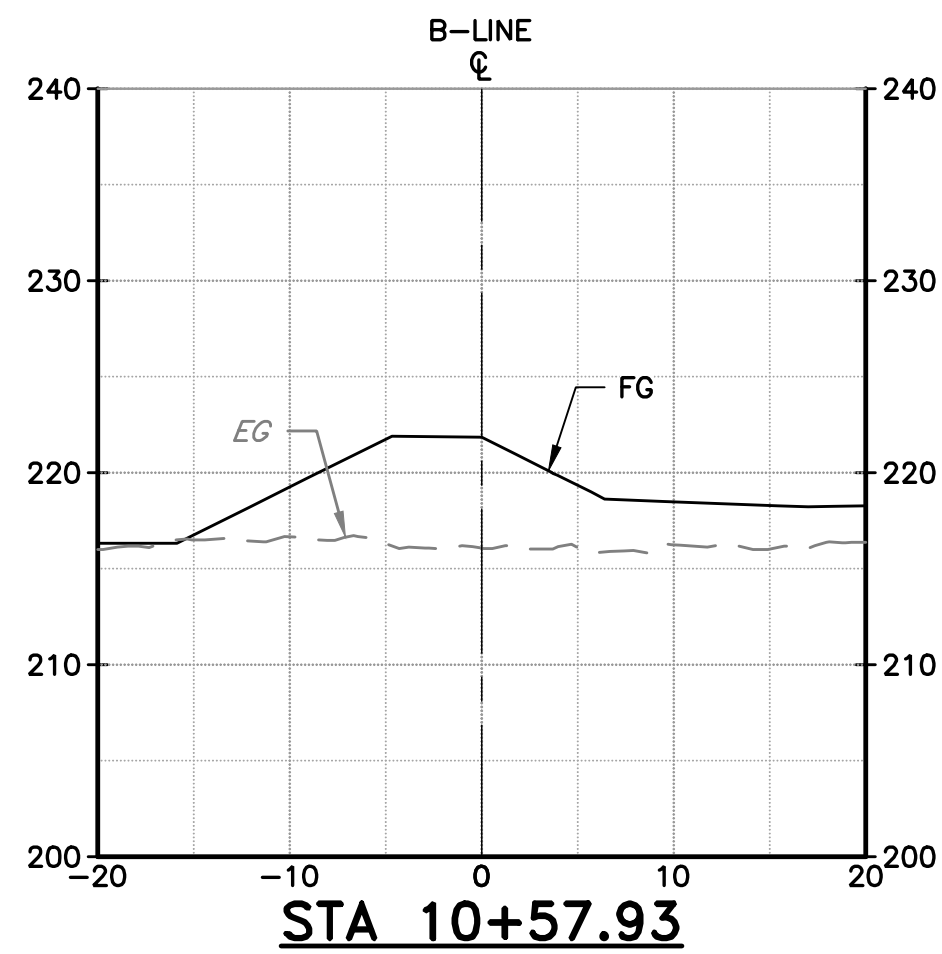
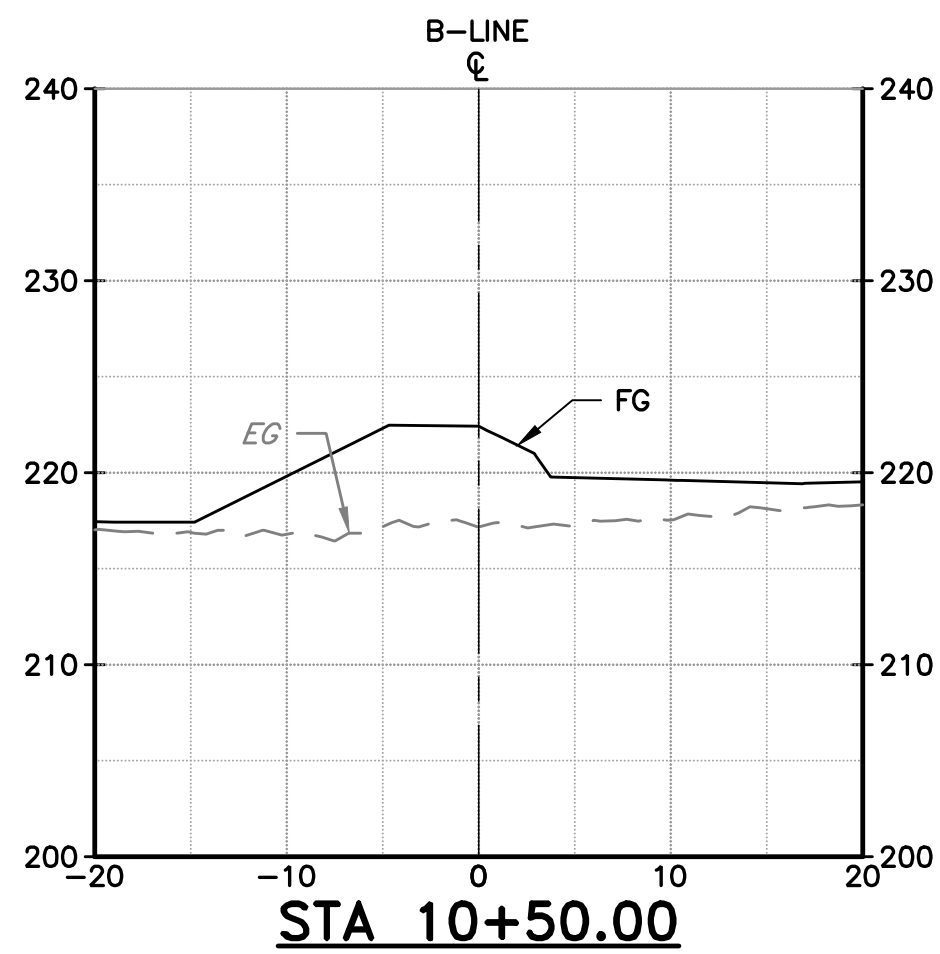
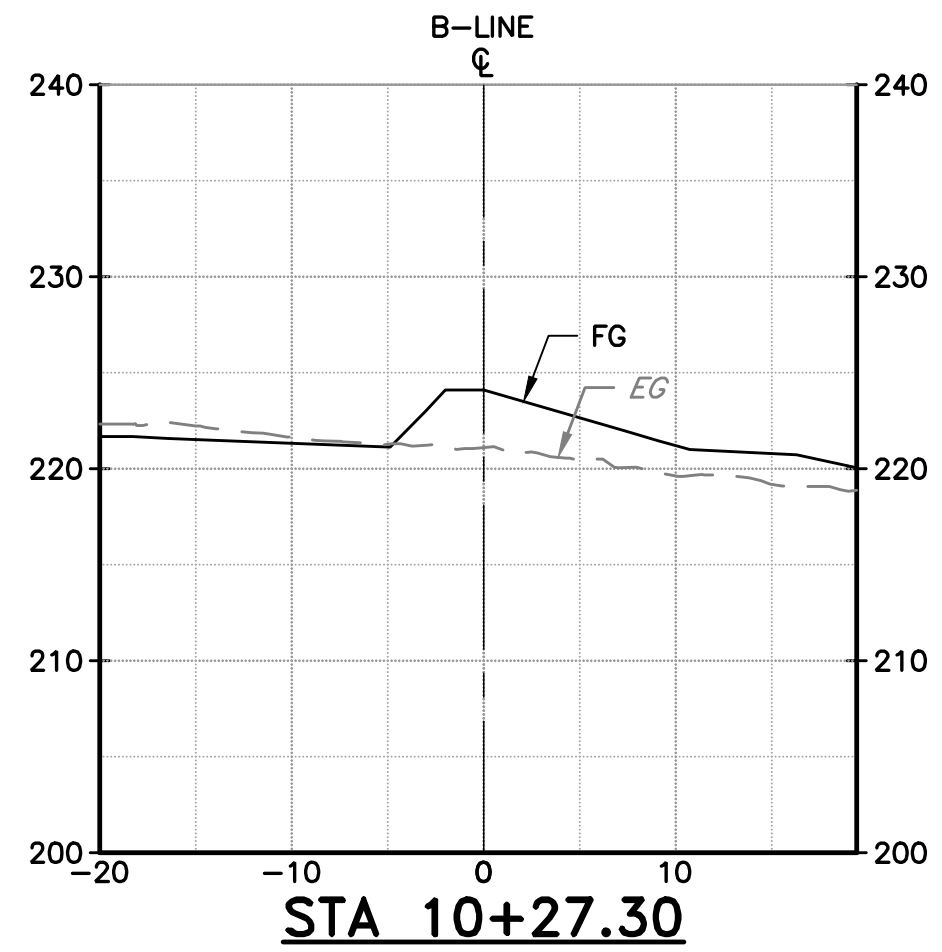
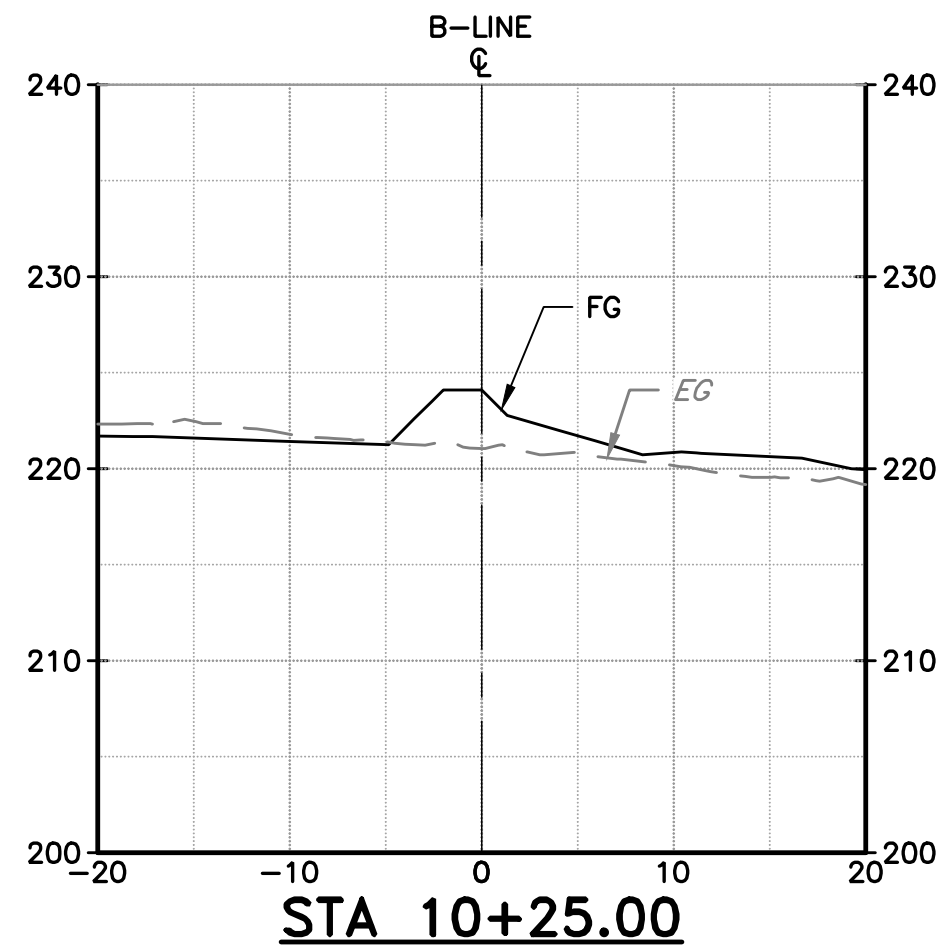
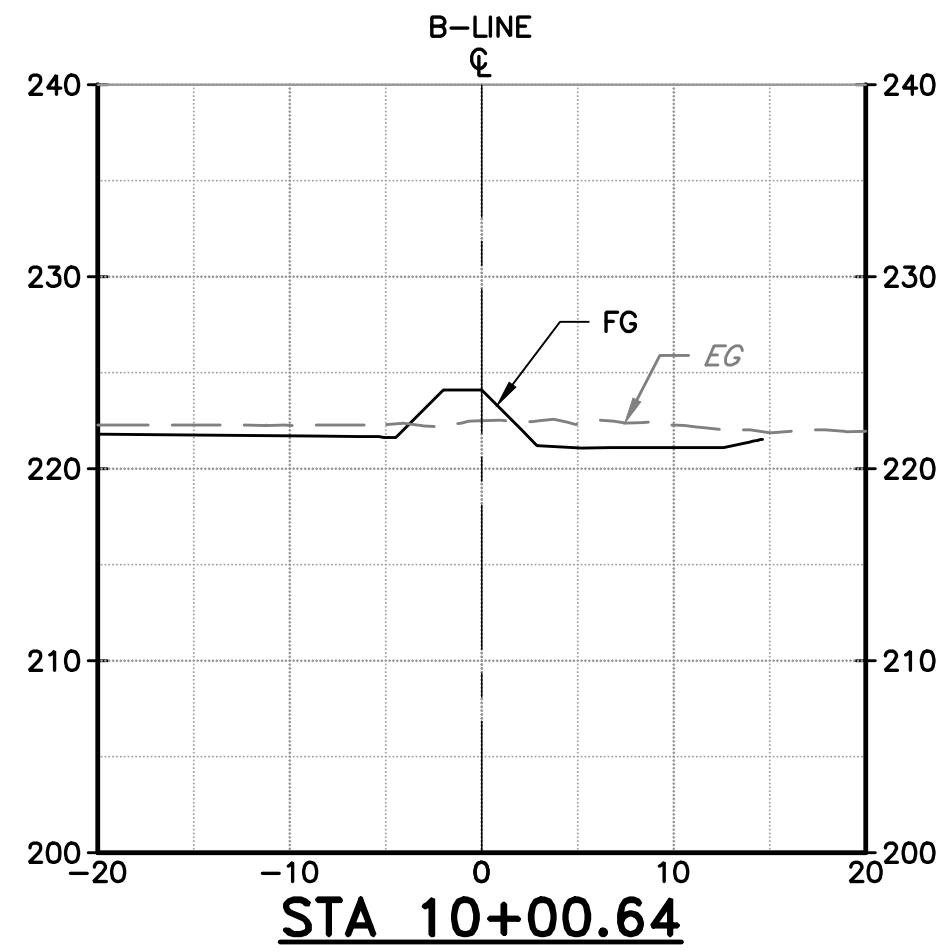
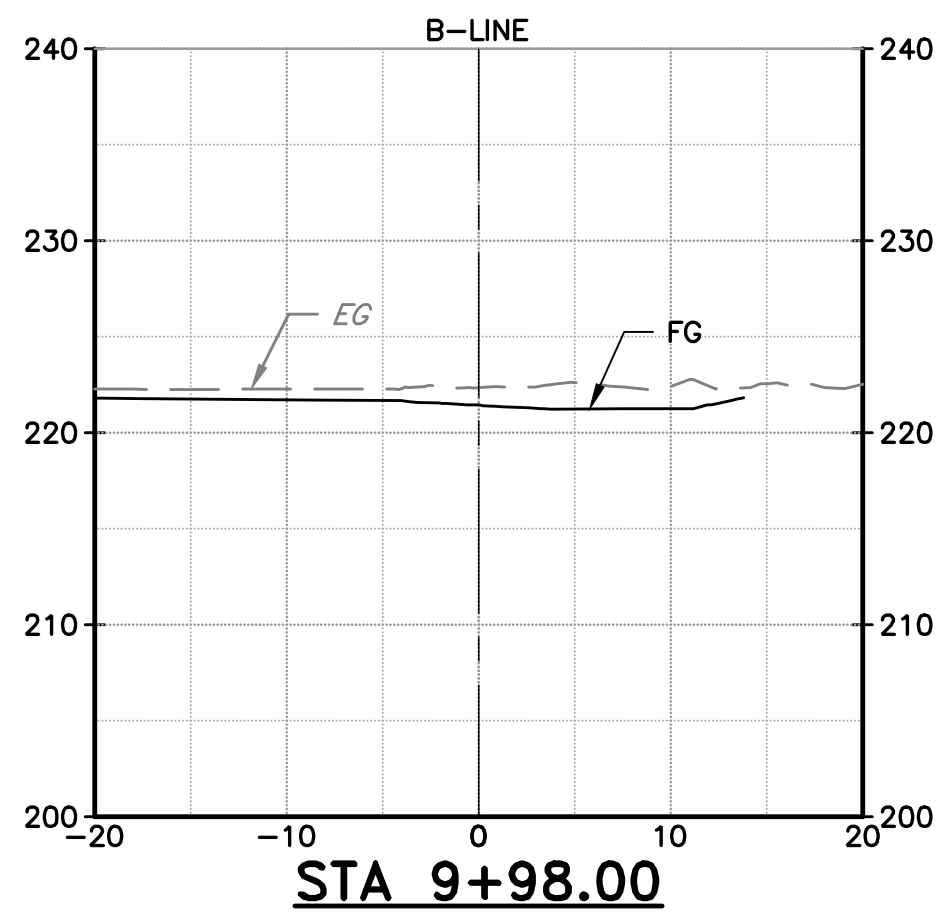


SECTIONS
SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES		DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT FISH LANE CROSS SECTIONS		SCALE AS SHOWN	PROJECT NUMBER 91864009
						JAN 2023	REGISTERED PROFESSIONAL ENGINEER Y. LEE No. C42456 CIVIL STATE OF CALIFORNIA				VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: X-01
				1. TYPICAL SECTION IS SHOWN LOOKING AT THE BEGINNING OF THE STATION. 2. SEE PLAN, PROFILE SHEETS AND TYPICAL SECTIONS FOR ADDITIONAL DESIGN INFORMATION.					SHEET NUMBER: 102			

USERNAME: OscarReyn 1/12/2023 4:01 PM
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DOCUMENT NUMBER: C00-X-9248-75945



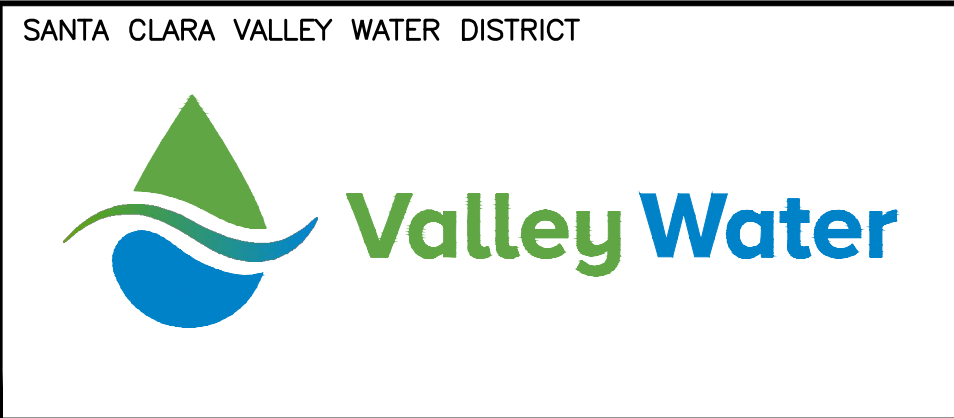
SECTIONS
SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

1. TYPICAL SECTION IS SHOWN LOOKING AT THE END OF THE STATION.
2. SEE PLAN, PROFILE SHEETS AND TYPICAL SECTIONS FOR ADDITIONAL DESIGN INFORMATION.

DATE JAN 2023	ENGINEERING CERTIFICATION
DESIGN Y. LEE	
DRAWN R. SAINI	
CHECKED K. NEUMAN	
PROJECT ENGINEER	



PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

BERM CROSS SECTIONS

SCALE
AS SHOWN

VERIFY SCALES



BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

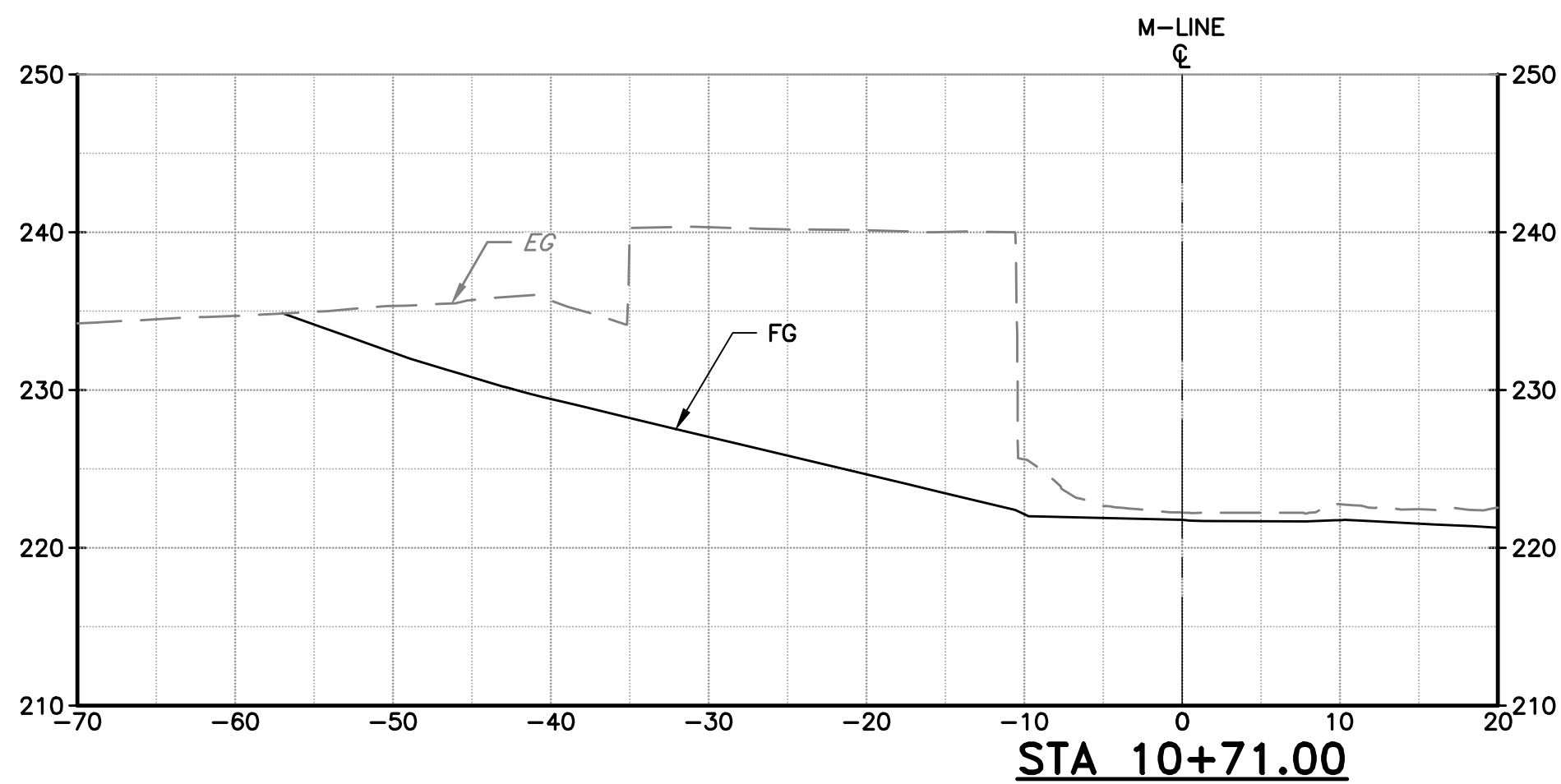
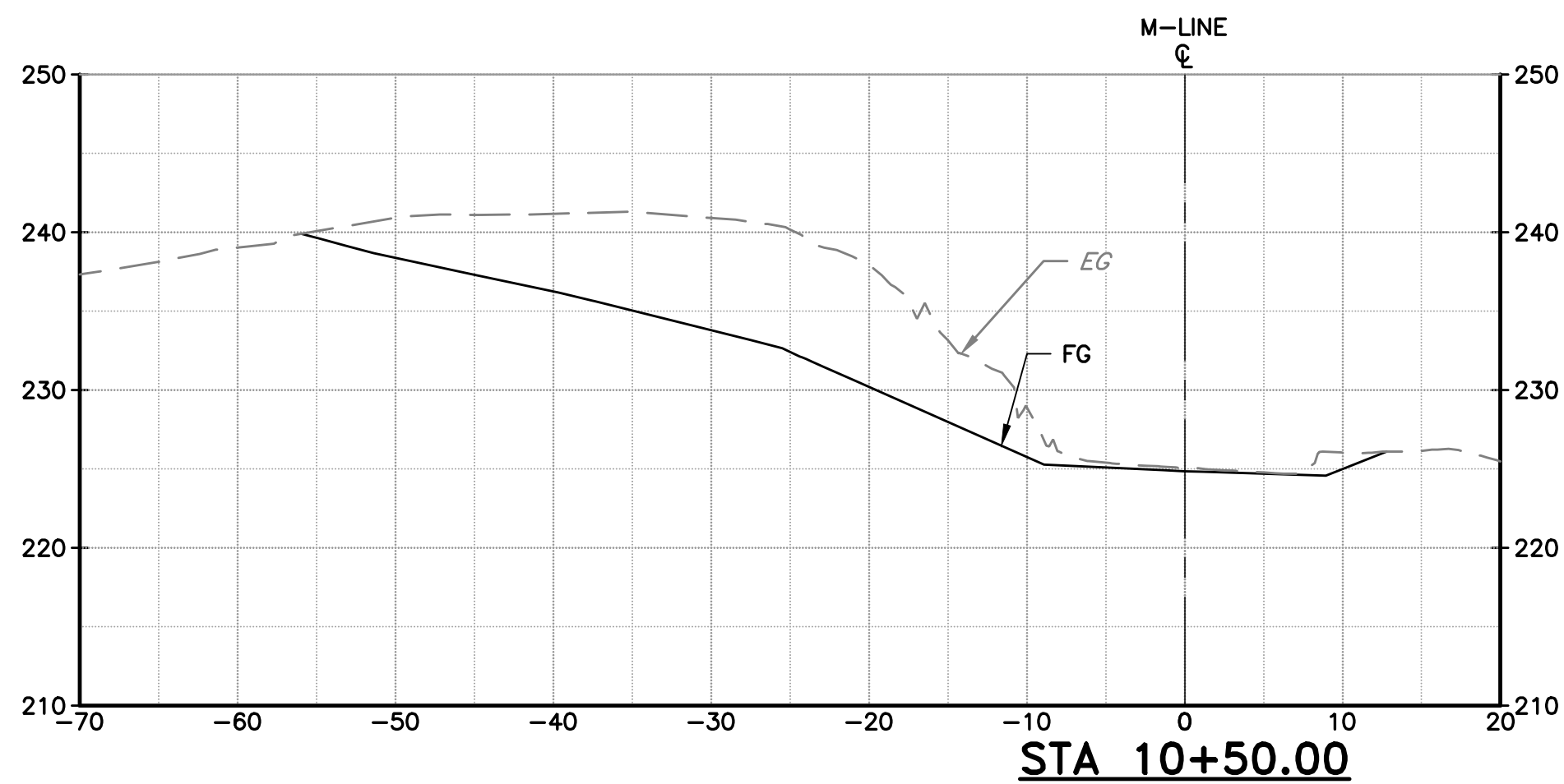
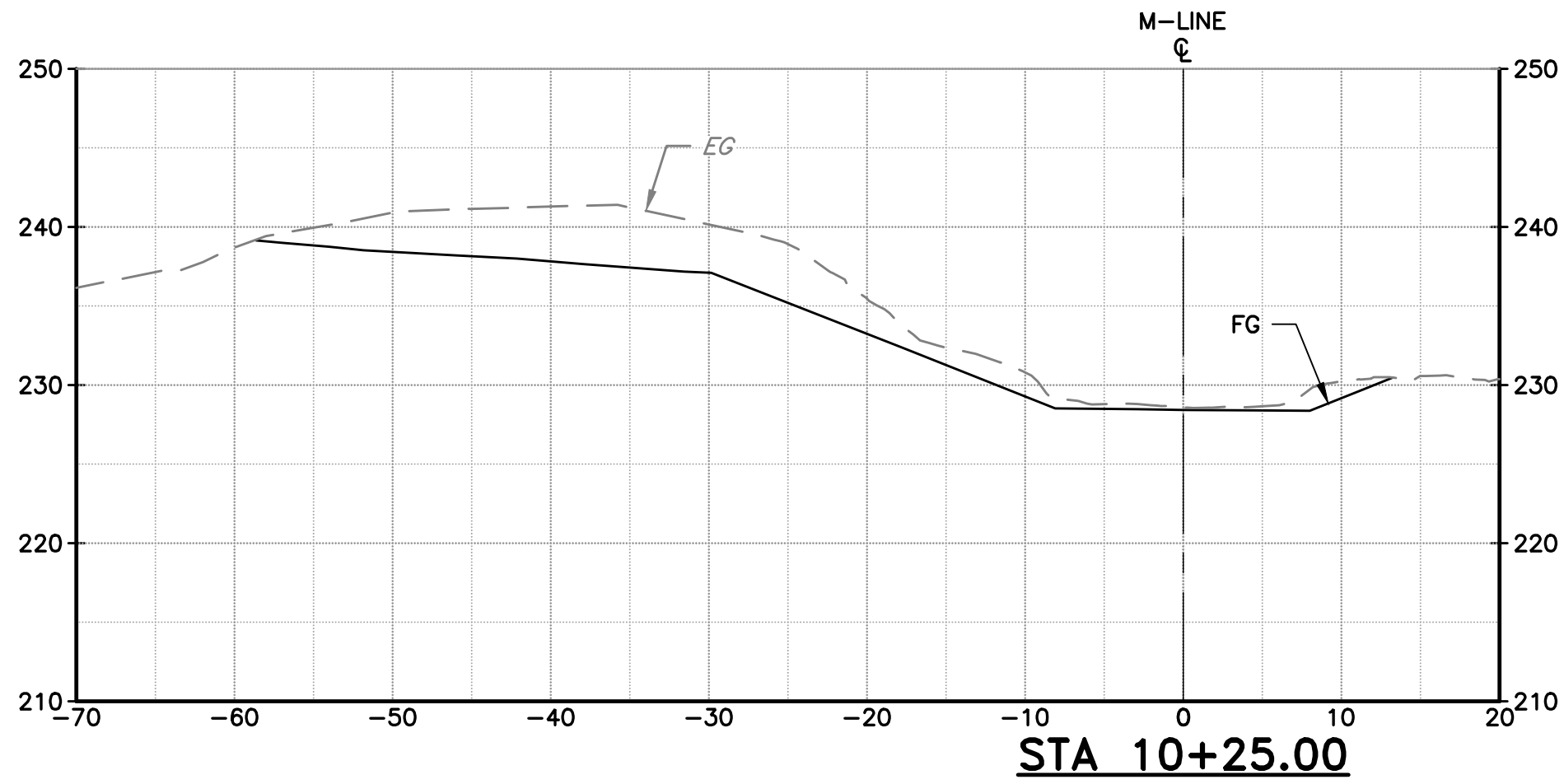
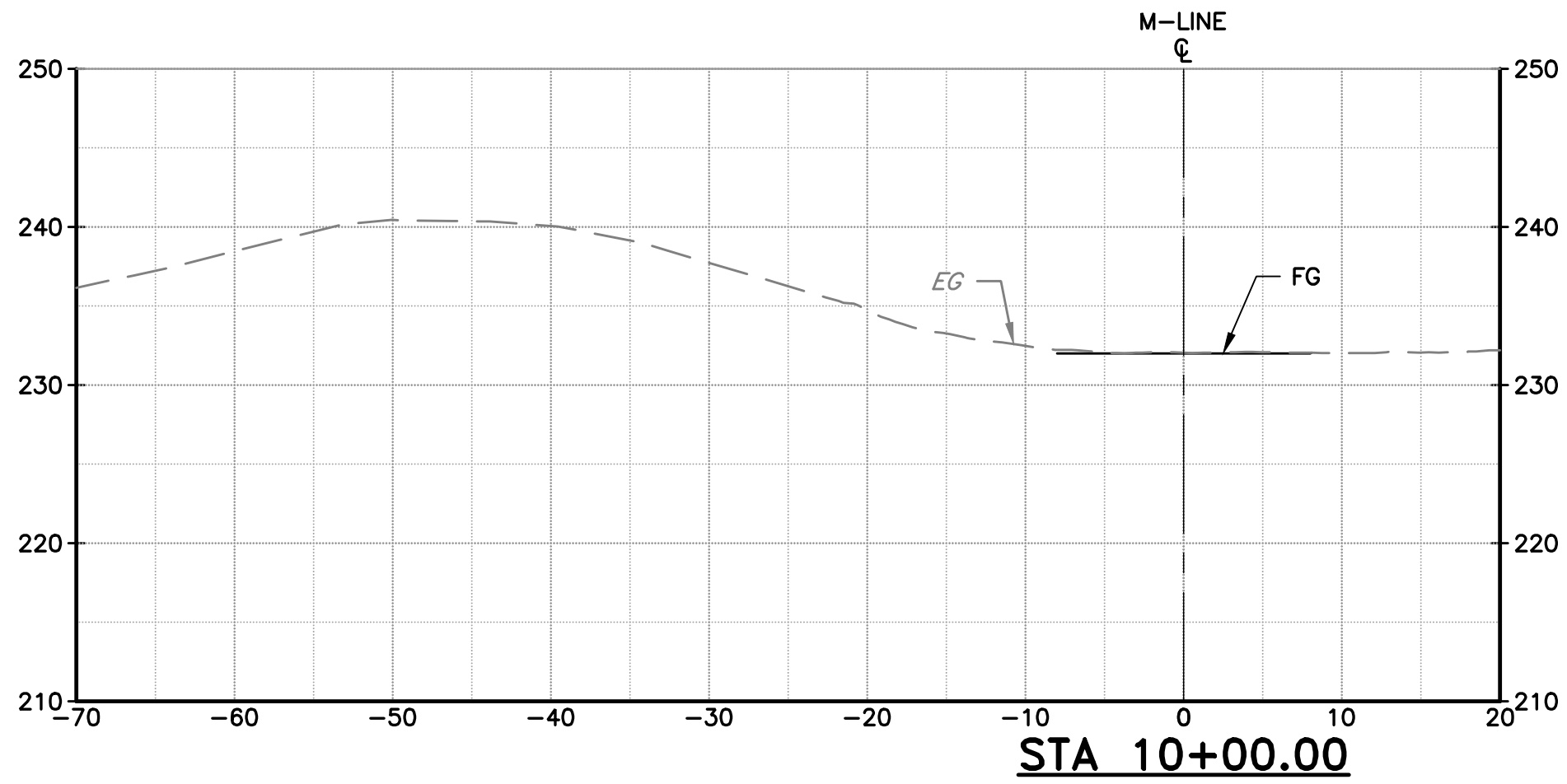
PROJECT NUMBER
91864009

SHEET CODE:
X-02

SHEET NUMBER:
103

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DOCUMENT NUMBER: C00-X-9248-75946



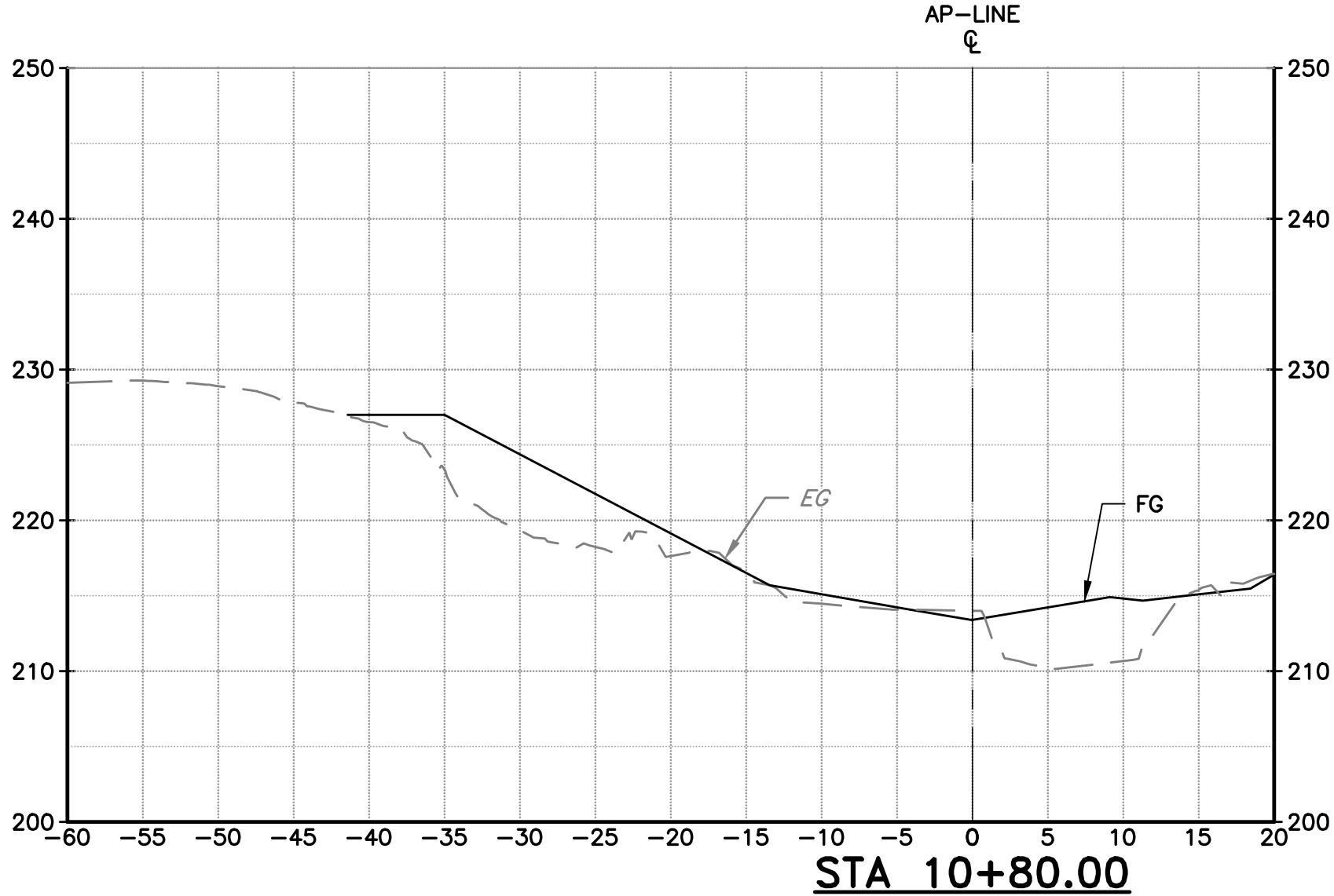
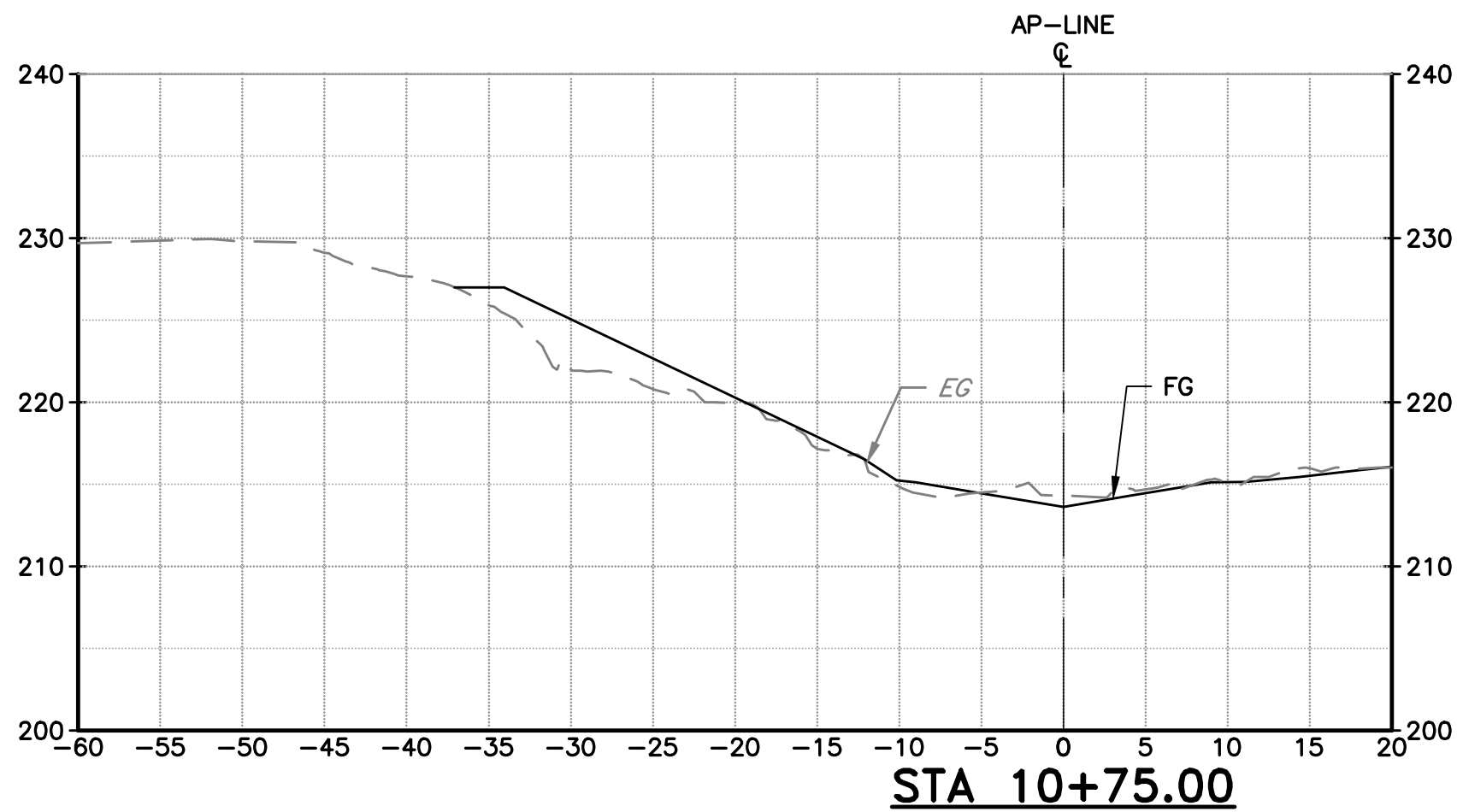
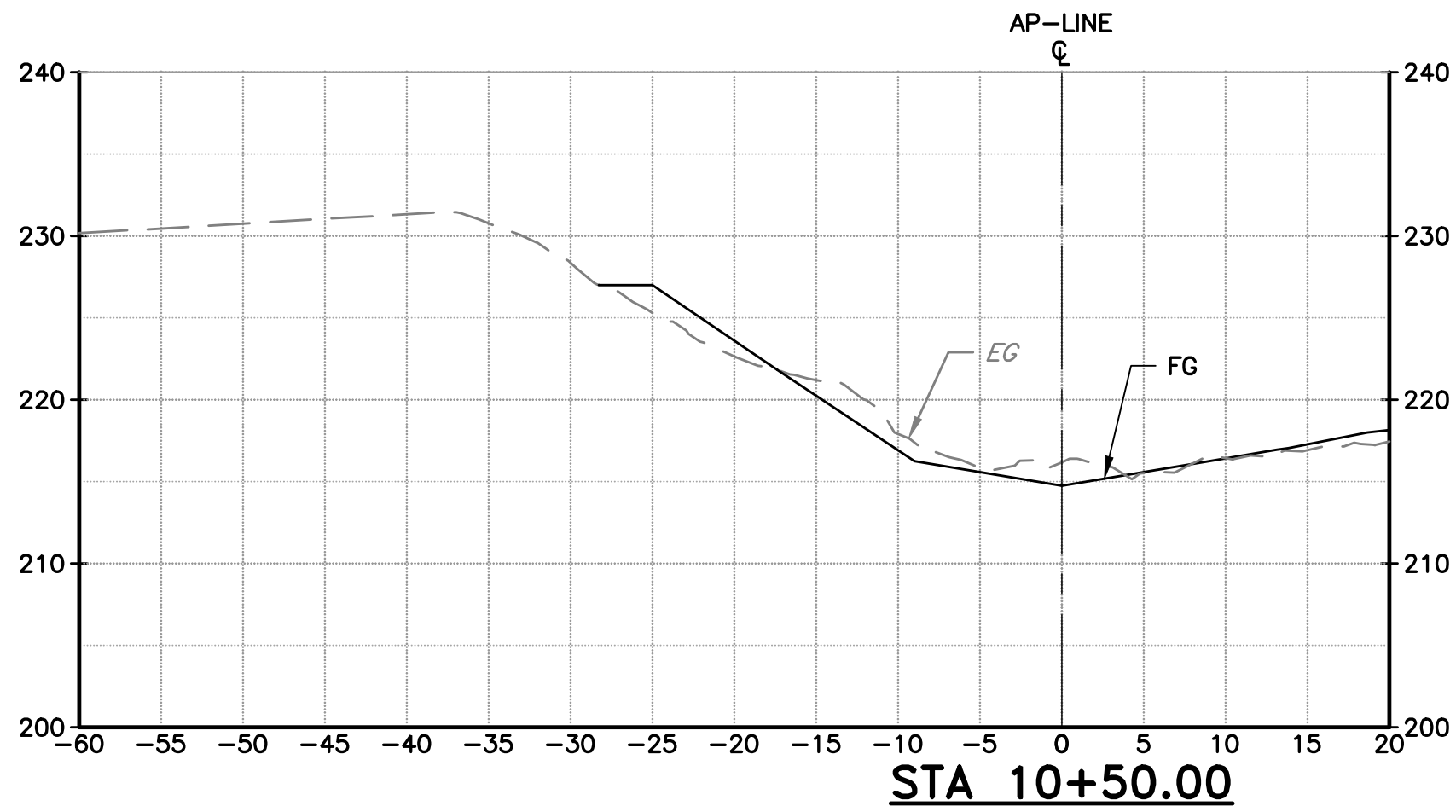
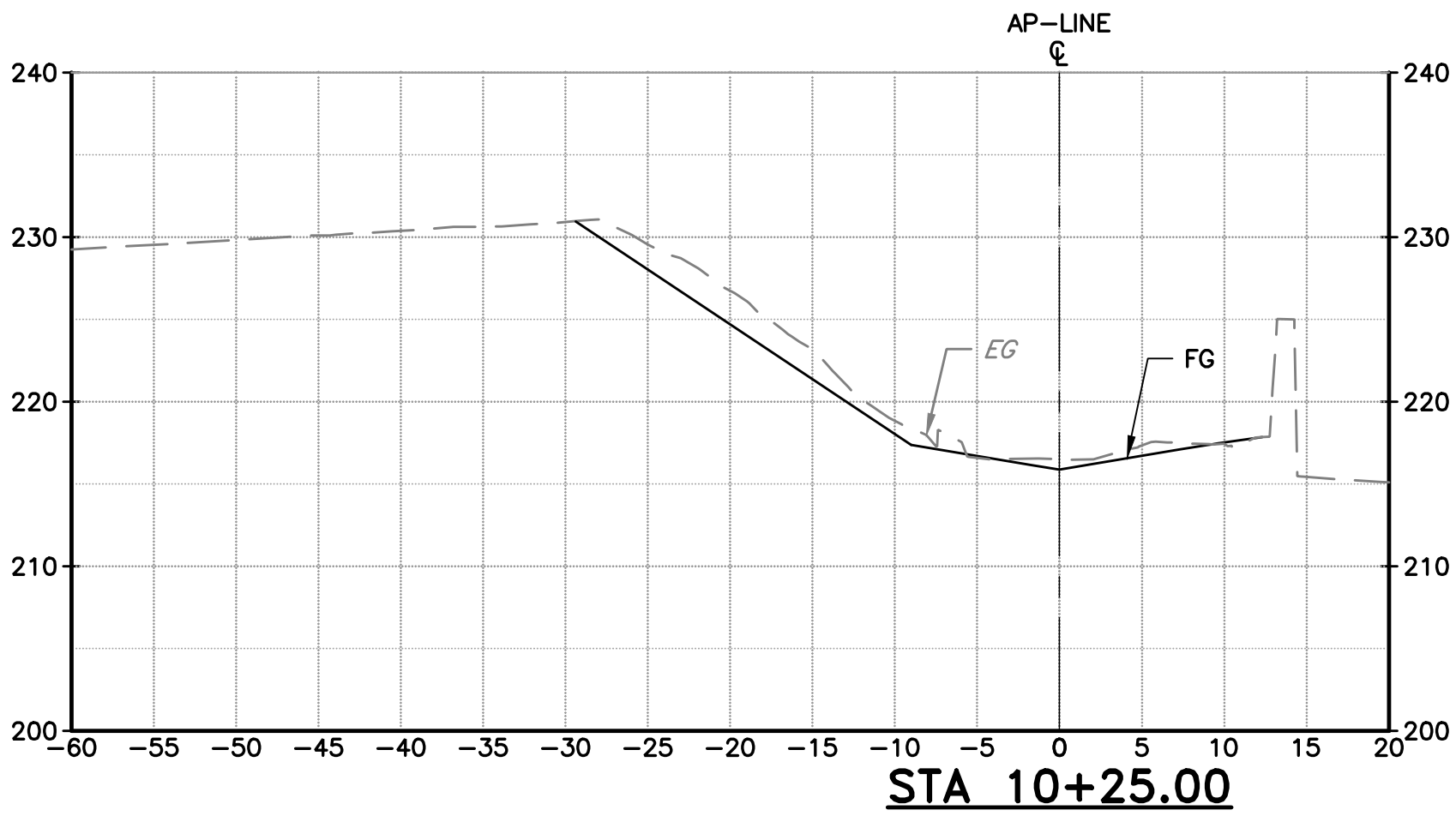
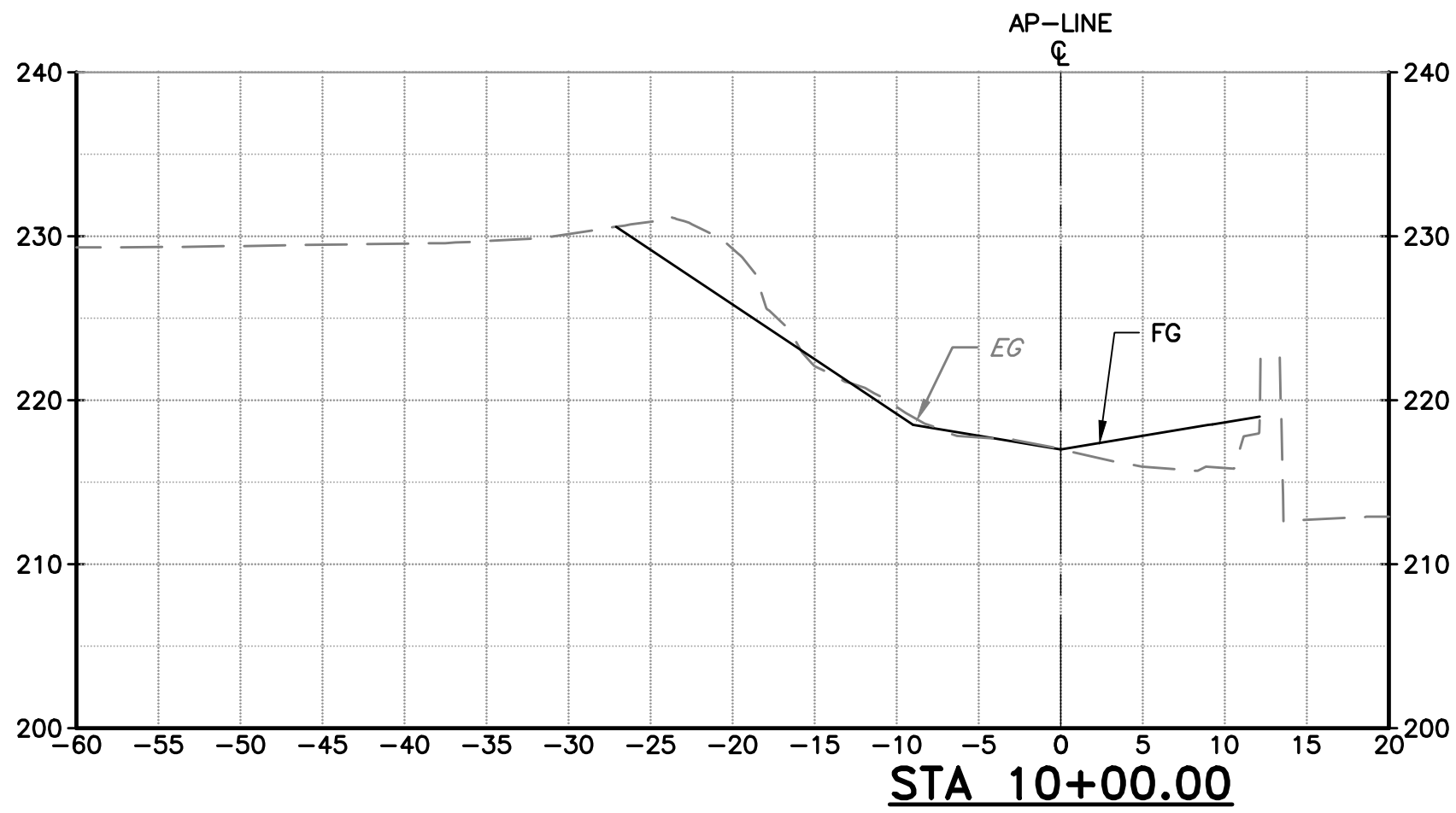
SECTIONS

SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES		DATE	ENGINEERING CERTIFICATION		SANTA CLARA VALLEY WATER DISTRICT		PROJECT NAME AND SHEET DESCRIPTION:		SCALE	PROJECT NUMBER
													AS SHOWN	91864009
				1. TYPICAL SECTION IS SHOWN LOOKING AT THE END OF THE STATION. 2. SEE PLAN, PROFILE SHEETS AND TYPICAL SECTIONS FOR ADDITIONAL DESIGN INFORMATION.		JAN 2023					FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT		 VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE:
														X-03
							PROJECT ENGINEER DATE				MAINTENANCE ROAD RAMP CROSS SECTIONS			SHEET NUMBER:
														104

USERNAME: OscarReyn 1/12/2023 5:02 PM
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DOCUMENT NUMBER: C00-X-9248-75947

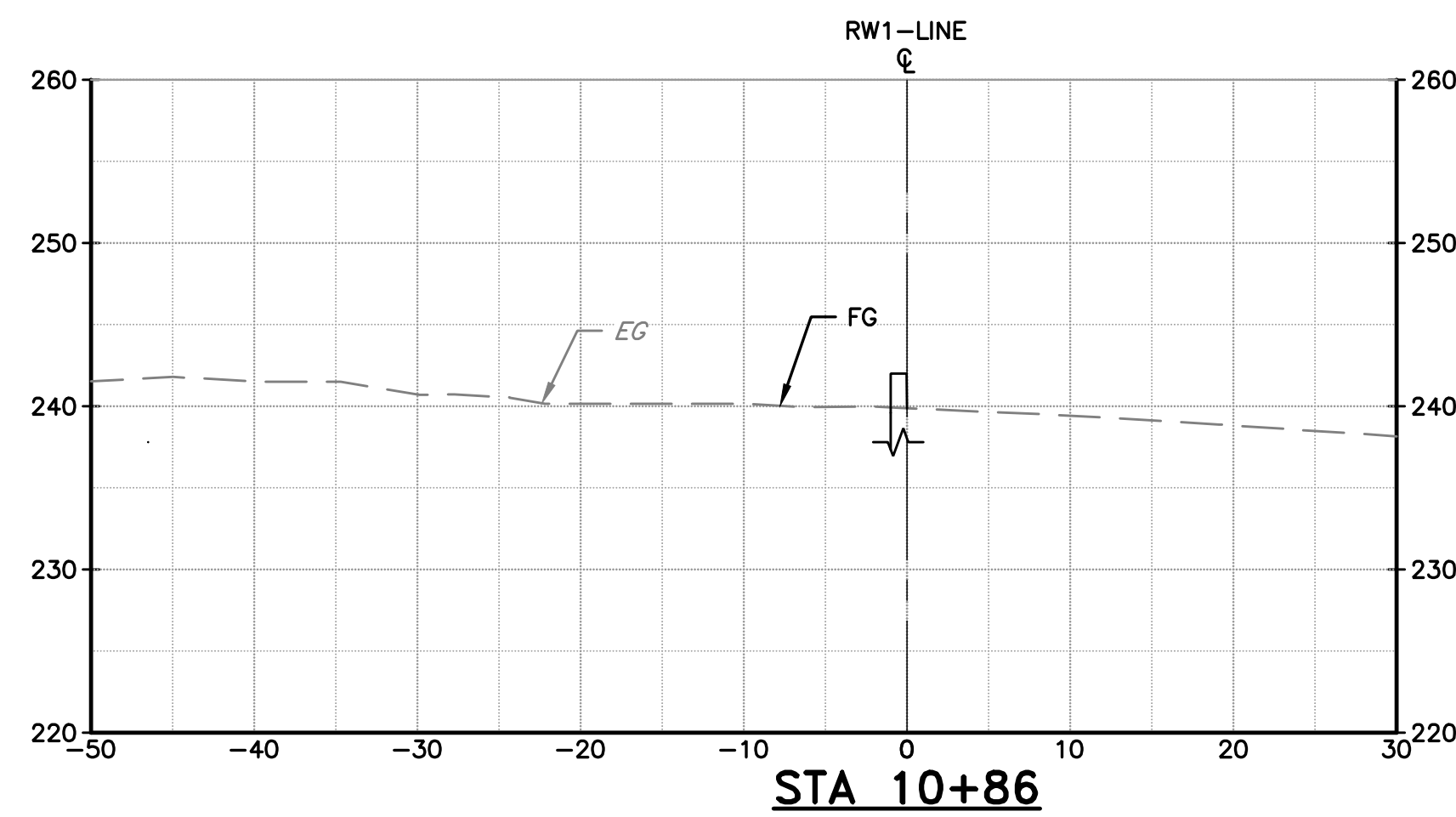
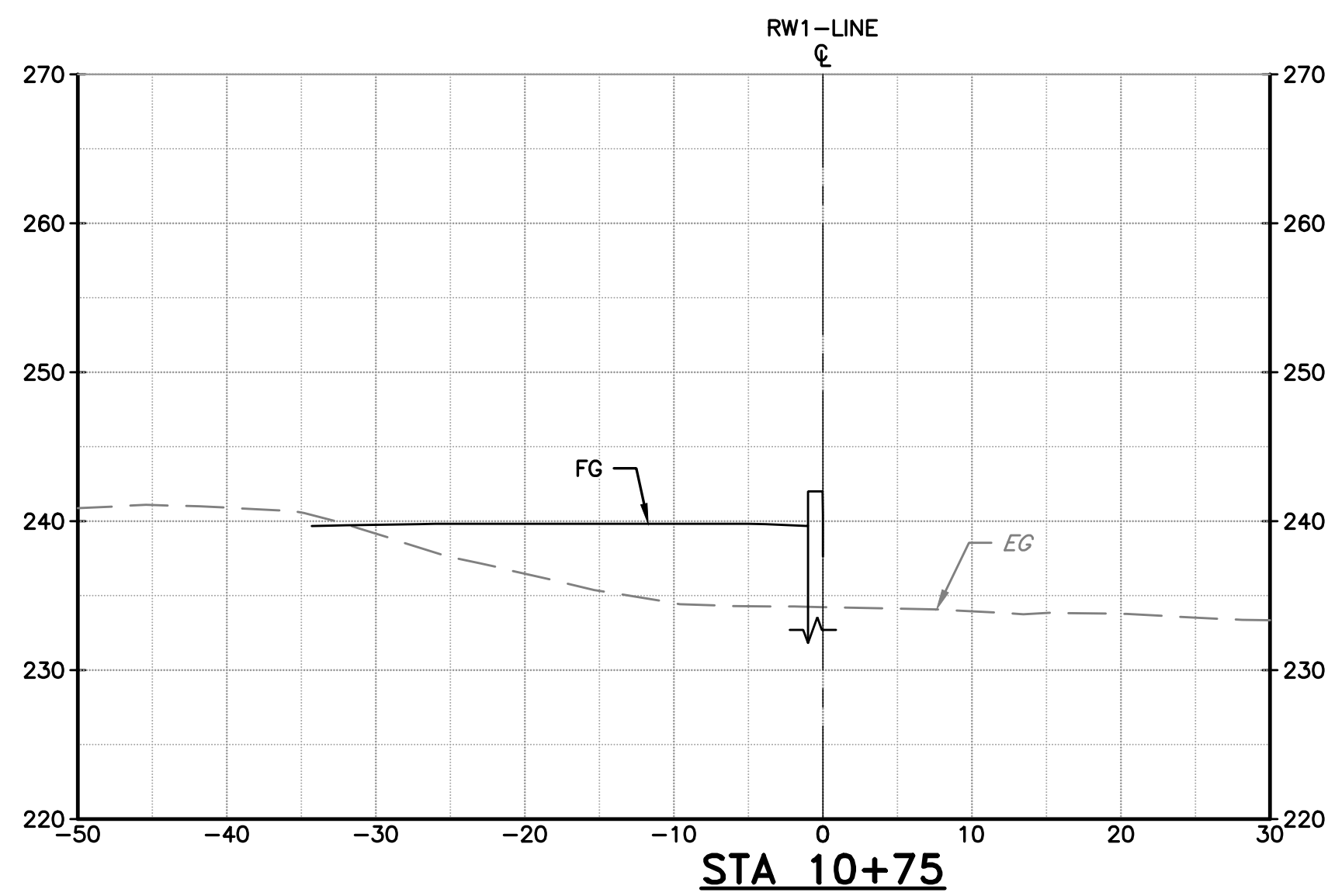
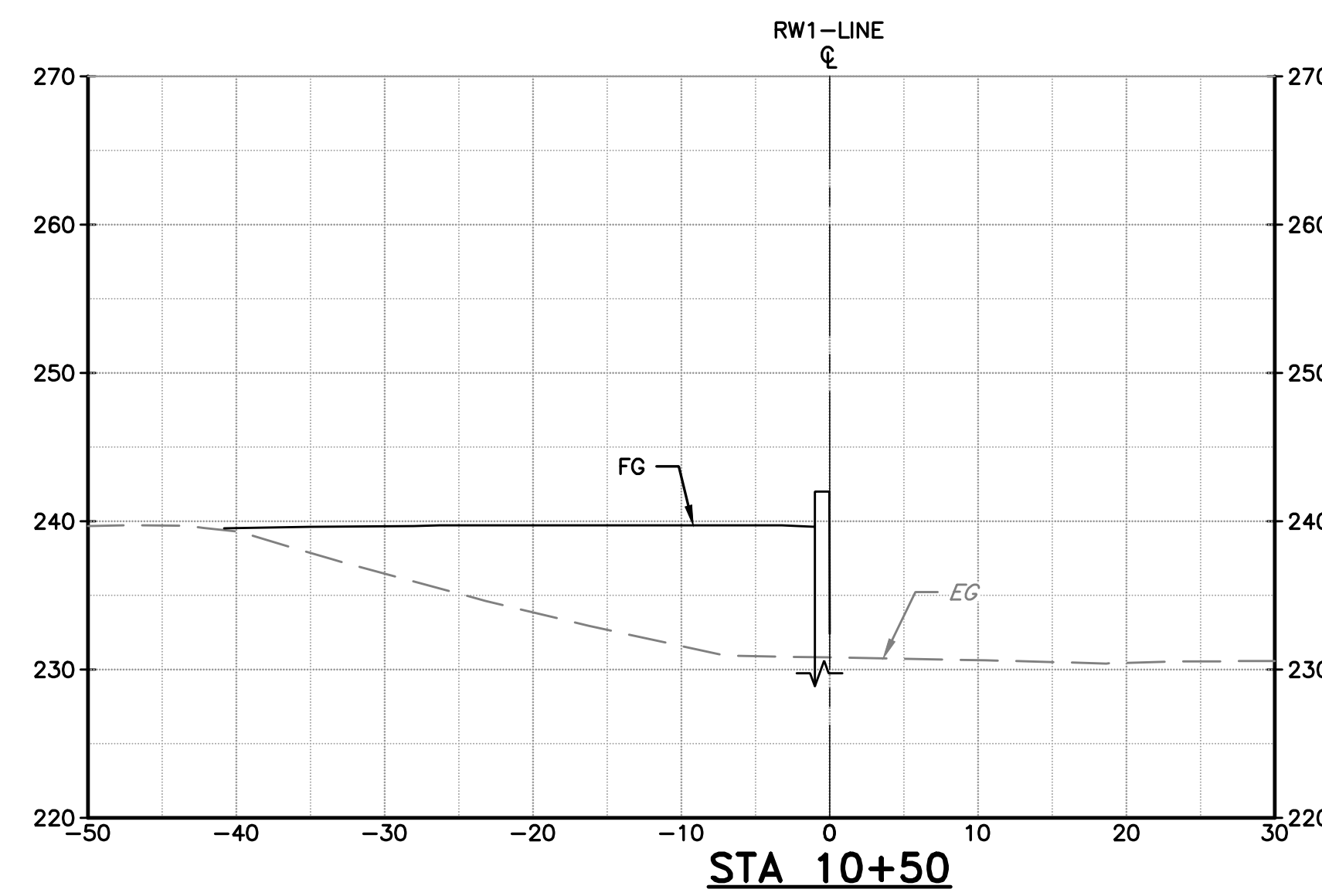
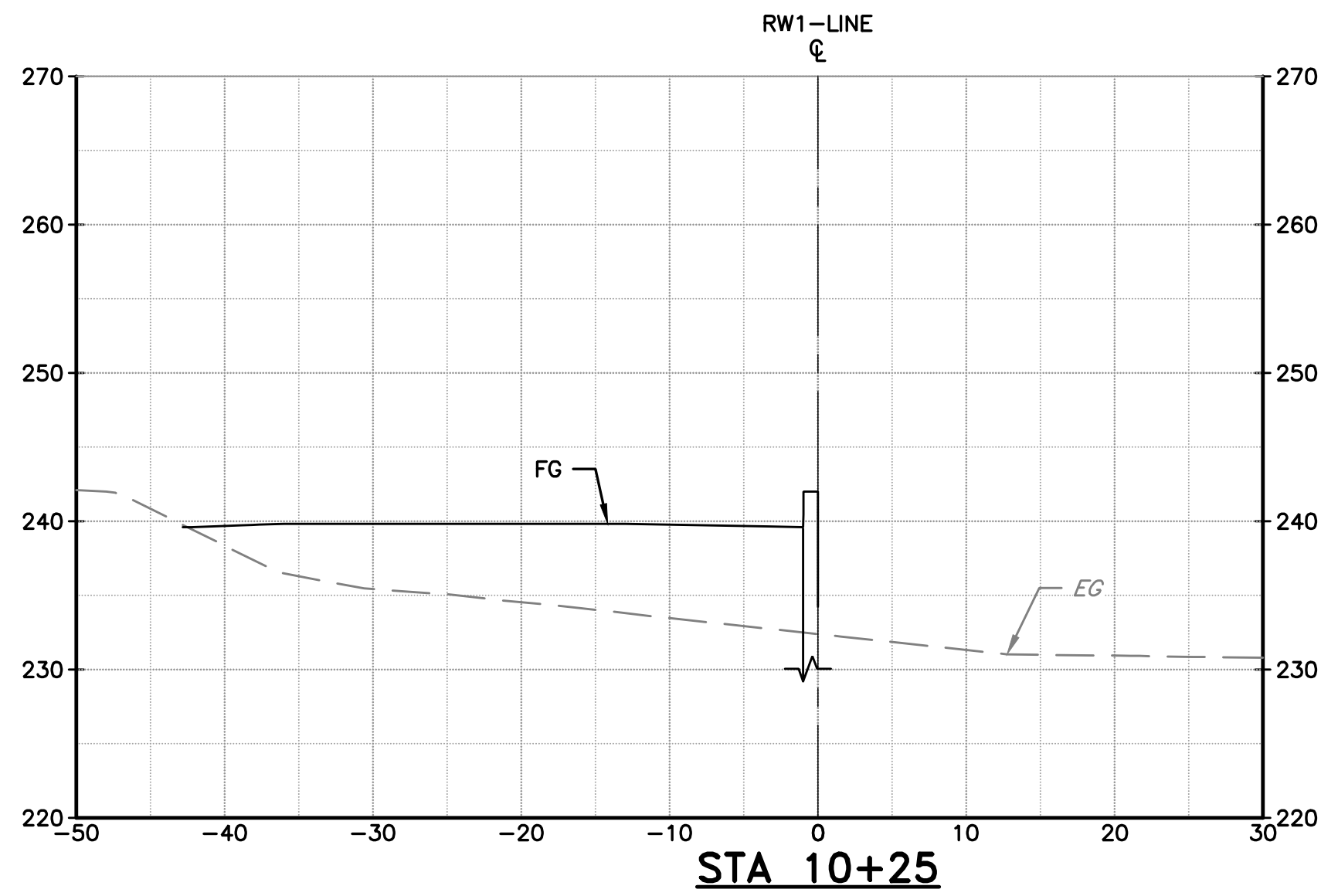
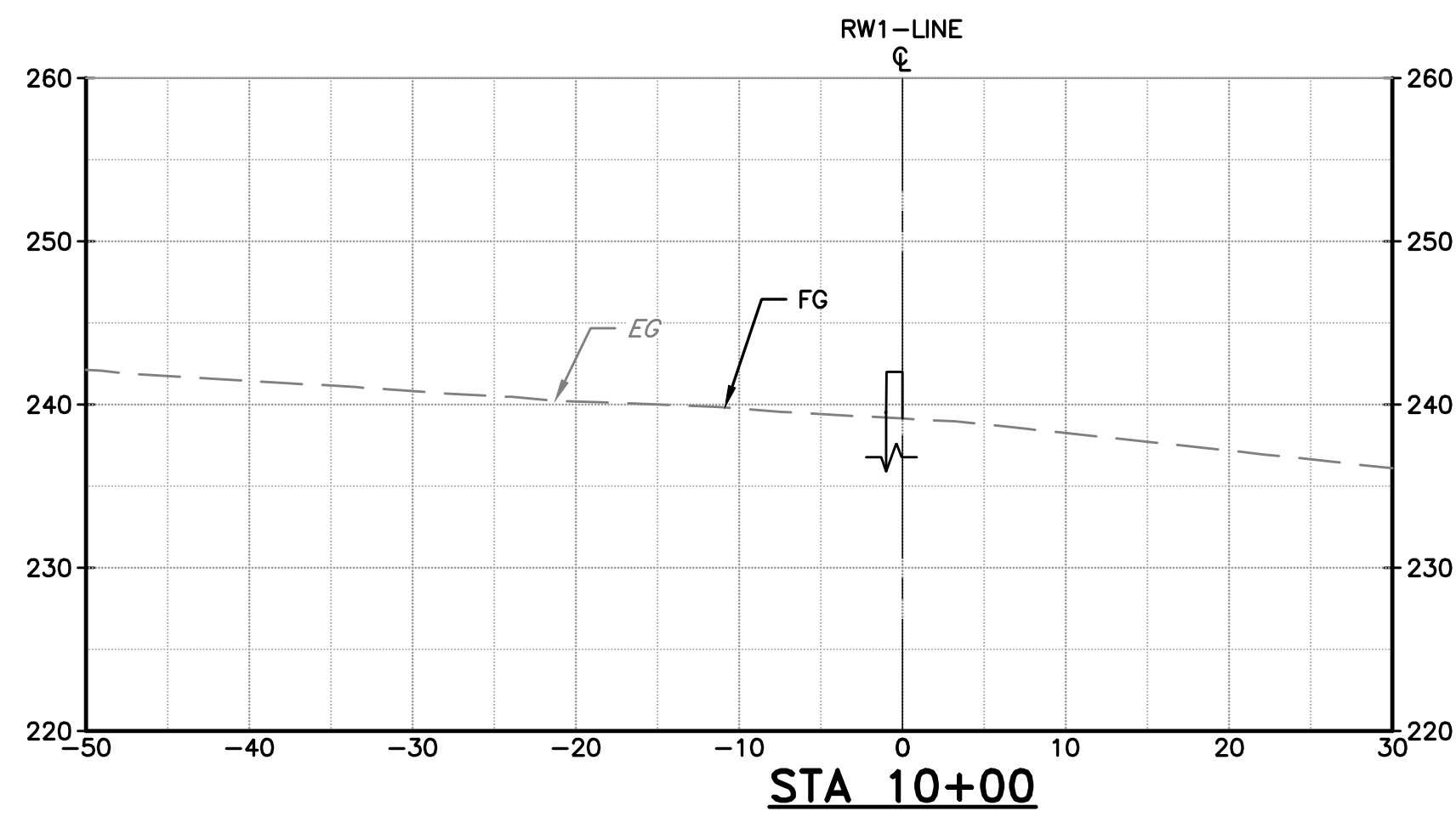


SECTIONS
SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES		DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION: FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT APPROACH CHANNEL CROSS SECTIONS		SCALE AS SHOWN	PROJECT NUMBER 91864009
						JAN 2023					VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: X-04 SHEET NUMBER: 105
				1. TYPICAL SECTION IS SHOWN LOOKING AT THE END OF THE STATION. 2. SEE PLAN, PROFILE SHEETS AND TYPICAL SECTIONS FOR ADDITIONAL DESIGN INFORMATION.		DRAWN R. SAINI CHECKED K. NEUMAN	PROJECT ENGINEER	DATE				

USERNAME: OscarReyn 1/12/2023 5:02 PM
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DOCUMENT NUMBER: C00-X-9248-75948



SECTIONS

SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES		DATE	ENGINEERING CERTIFICATION		SANTA CLARA VALLEY WATER DISTRICT		PROJECT NAME AND SHEET DESCRIPTION:		SCALE	PROJECT NUMBER	
													AS SHOWN		
				1. TYPICAL SECTION IS SHOWN LOOKING AT THE END OF THE STATION. 2. SEE PLAN, PROFILE SHEETS AND TYPICAL SECTIONS FOR ADDITIONAL DESIGN INFORMATION.		JAN 2023					FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT		 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		91864009
											RETAINING WALL CROSS SECTIONS				SHEET CODE: X-05
															SHEET NUMBER: 106