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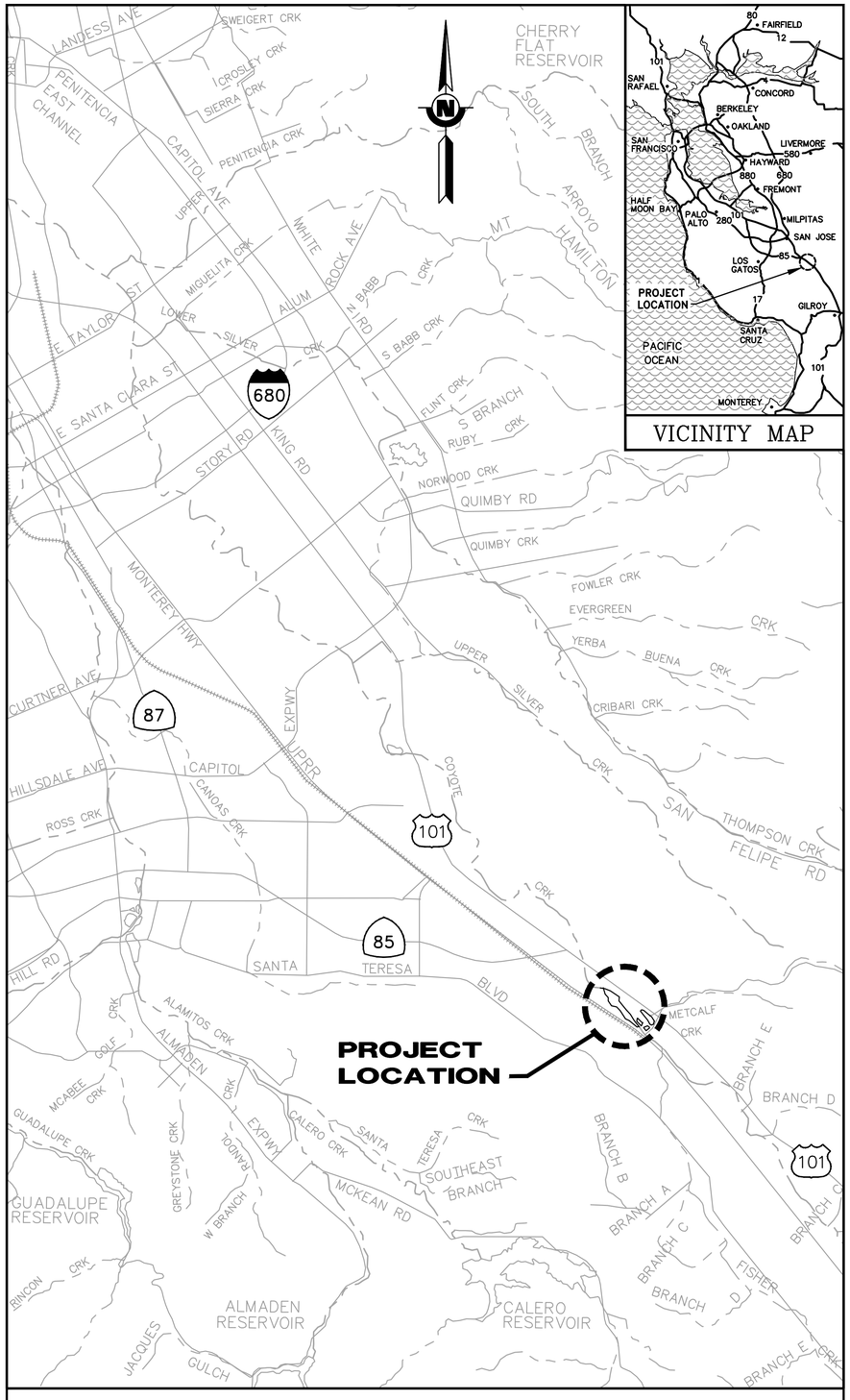
DOCUMENT NUMBER: COO-G-9248-75843



LOCATION MAP
SCALE: 1" = 5,000'

MAP AND CONSTRUCTION PLAN

FOR

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PREPARED BY:

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

REGISTERED PROFESSIONAL ENGINEER
YOUHAN LEE
No. C42456
CIVIL
STATE OF CALIFORNIA

APPROVED BY:

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

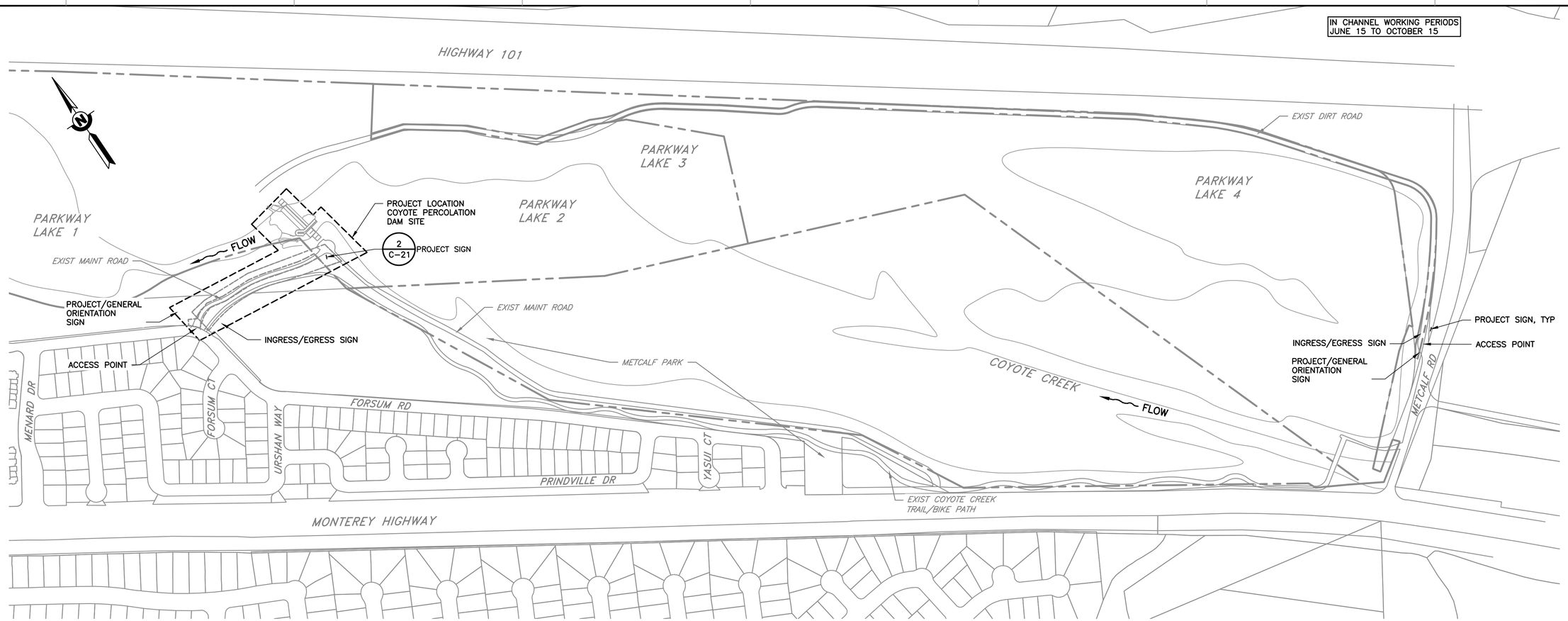
ACCEPTED BY:

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

CONTRACT NUMBER
C0693
PROJECT NUMBER
91864009
SHEET CODE:
G-01
SHEET NUMBER: 01
TOTAL SHEETS: 106

USERNAME: OscaReyn 1/12/2023 4:41 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\G-02.dwg

IN CHANNEL WORKING PERIODS
JUNE 15 TO OCTOBER 15



SITE MAP
SCALE: 1" = 200'

DOCUMENT NUMBER: COO-G-9248-75844

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

USERNAME: OscaReyn 1/12/2023 4:41 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\G-03.dwg

GENERAL NOTES:

1. 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.
2. 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.
3. 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.
4. 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.
5. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
6. 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.
7. SPECIAL SIGNS ARE IN 4" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND. MOUNT SPECIAL SIGNS ON TYPE II BARRICADE.
8. FIRE HYDRANTS SHALL NOT BE OBSTRUCTED BY FENCE, EQUIPMENT, K-RAIL, OR TRAFFIC CONTROL DEVICES OF ANY KIND.
9. MAINTAIN 12' MINIMUM TRAFFIC LANES UNLESS OTHERWISE SPECIFIED OR APPROVED BY THE CITY OF SAN JOSE.
10. KEEP DRIVEWAYS OPEN AT ALL TIMES.
11. 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).
12. 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.
13. CONTRACTOR SHALL PROVIDE CERTIFIED FLAGGERS WHEN OPERATING AND HAULING EQUIPMENT AND MATERIALS WITHIN CITY STREETS IMMEDIATELY ADJACENT TO THE PROJECT.
14. 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.
15. 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.
16. CONTRACTOR SHALL INSTALL DIVERSION SYSTEM PRIOR TO WORK IN THE CHANNEL.
17. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE QUANTITIES OF ALL MATERIAL NEEDED.
18. ALL GROUND ELEVATIONS ARE APPROXIMATE ONLY AND SHALL BE FIELD VERIFIED BY CONTRACTOR.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. CONTRACTOR SHALL PROVIDE VIBRATION MONITORING AND CONTROL CONSTRUCTION RELATED VIBRATIONS AS REQUIRED BY SPECIFICATION 18.03.03.
29. IT IS UNACCEPTABLE TO IDLE DELIVERY TRUCKS FOR ANY REASON. REFER TO SPECIFICATION 18.08.01.
30. 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.
31. 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.
32. 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.
33. CONTRACTOR SHALL POTHOLE ALL UTILITIES PRIOR TO CONSTRUCTION AND SUBMIT INFORMATION TO THE CITY FOR REVIEW.
34. CONTRACTOR SHALL USE A STREET SWEEPER TO CLEAN CITY'S STREET TO REMOVE SEDIMENT TRACKING FROM SCVWD CONSTRUCTION ACTIVITIES.
35. 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.
36. CONTRACTOR SHALL ENSURE THAT ALL THE WORK IS IN COMPLIANCE WITH THE AMERICANS WITH DISABILITY ACT (ADA).
37. ALL EXISTING AND PROPOSED UTILITY BOXES MUST BE ADJUSTED TO GRADE.
38. ALL USA MARKINGS FROM THE PROJECT SHALL BE COMPLETELY REMOVED AT THE END OF CONSTRUCTION.
39. 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.
40. 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.
41. CONTRACTOR SHALL NOTIFY CITY OF SAN JOSE POLICE AND FIRE DEPARTMENTS 5 DAYS AND 48-HOURS PRIOR TO PLANNED CONSTRUCTION ACTIVITIES.

DESIGN NOTES:

1. DISCHARGE CRITERIA:
   A. DESIGN FLOWS: 450 TO 1,400 CFS
2. MANNINGS ROUGHNESS COEFFICIENT (N) IS:
   A. 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

3. 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.
4. SEE SHEET V-03 FOR CONTROL LINE LAYOUT AND SHEET V-04 FOR CONTROL LINE SURVEY CONTROL DATA.

DOCUMENT NUMBER: COO-G-9248-75845

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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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REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

* 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.

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — JOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

DRAWING INDEX

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-04

SHEET NUMBER: 4

DOCUMENT NUMBER: COO-G-9248-75846

USERNAME: OscaReyn 1/12/2023 4:41 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\G-04.dwg

ABBREVIATIONS

ABM – AIR BLOWN MORTAR
ABS – ACRYLONITRILE–BUTADIENCE–STYRENE
AC – ASPHALT CONCRETE
ACP – ASBESTOS CEMENT PIPE
AISI – AMERICAN IRON & STEEL INSTITUTE
ALIGN – ALIGNMENT
AMP – AMPERES
ANSI – AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX – APPROXIMATE
ARV – AIR RELEASE VALVE
ASA – AMERICAN STANDARD ASSOCIATION
ASTM – AMERICAN SOCIETY FOR TESTING MATERIALS
AWG – AMERICAN WIRE GAGE
AWWA – AMERICAN WATER WORKS ASSOCIATION

BC – BEGIN CURVE
BM – BENCH MARK
BMP – BEST MANAGEMENT PRACTICE
BOP – BOTTOM OF POOL
BT – BACKHOE TRENCH
BTM – BOTTOM
BW – BOTH WAYS

CARV – COMBINATION AIR RELEASE VALVE
℄ – CENTERLINE
CB – CATCH BASIN (INLET)
CCCL – CEMENT MORTAR COATED & LINED STEEL PIPE
CCEM – CEMENT CONDUIT
CCTL – CORROSION CONTROL TEST LEADS
CCP – CONCRETE CYLINDER PIPE
CFM – CUBIC FEET PER MINUTE
CI – CAST IRON
CIP – CAST IRON PIPE
CJ – CONSTRUCTION JOINT
CL – CLEARANCE
CLR – CLEAR
CMC – CEMENT MORTAR COAT
CML – CEMENT MORTAR LINE
CMP – CORRUGATED METAL PIPE
CO – CLEAN OUT
CONC – CONCRETE
CONT – CONTINUOUS
CP – CEMENT PIPE
CPC – PLASTIC CONDUIT
CSP – CORRUGATED STEEL PIPE
CTP – CABLE TELEVISION POLE
CTV – CABLE TV
CU FT – CUBIC FEET
CYL – CYLINDER
CIPP – CAST–IN–PLACE PIPE

DET – DETAIL
DH – DRILL HOLES
DIA – DIAMETER
DICL – DUCTILE IRON CEMENT LINED
DIP – DUCTILE IRON PIPE
DPDT – DOUBLE POLE DOUBLE THROW
D/S – DOWNSTREAM
DWR – DEPARTMENT OF WATER RESOURCES

EC – END CURVE
EL – ELEVATION
ELEC – ELECTRICAL
ELEV – ELEVATION
EP – EDGE OF PAVEMENT
EXIST – EXISTING

FF – FULL FORCE
FH – FIRE HYDRANT
FKCL – FIBERGLASS–KRAFT WRAP CEMENT LINED
FLG – FLANGE
FP – FEEDER PRESSURE
FT – FEET

GA – GAGE
GALV – GALVANIZED
GFI – GROUND FAULT INTERRUPTER

HC – HOUSE CONNECTION (SANITARY)
HMW/PE – HIGH MOLECULAR WEIGHT POLYETHYLENE
HORIZ – HORIZONTAL
HP – HORSEPOWER

ID – INSIDE DIAMETER
IE – INVERT ELEVATION
IF – INSIDE FACE
IL – INDUCTIVE LOOP
IN – INCH
INSUL – INSULATION
INV – INVERT
IP – IRON PIPE
IPS – IRON PIPE SIZE

JT – JOINT TRENCH

KV – KILO VOLT

LB – CONDUIT FITTING ELBOW
LG – LONG
LLV – LONG LEG VERTICAL
LT – LEFT

MAINT – MAINTENANCE
MAX – MAXIMUM
MCD – MULTIPLE CONDUITS
MCI – MCI TELECOMMUNICATION CORP.
MH – MANHOLE
MIN – MINIMUM
MON – MONUMENT
MW – MONITORING WELL

N – NITROGEN
N/A – NOT APPLICABLE
NE – NORTHEAST
NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NO – NUMBER
NTS – NOT TO SCALE
NW – NORTHWEST
NZ – NOZZLE

OC – ON CENTER
OD – OUTSIDE DIAMETER
OF – OUTSIDE FACE
OH – OVERHEAD
OIT – OPERATOR INTERFACE TERMINALS
OW – OBSERVATION WELL

℘ – PROPERTY LINE
PCC – PORTLAND CEMENT CONCRETE
PCCP – PRESTRESSED CONCRETE CYLINDER PIPE
PE – PLAIN END
PG&E – PACIFIC GAS AND ELECTRIC
PI – POINT OF INTERSECTION
PK – PARKER–KALON SURVEY NAIL
PL – PLASTIC LINE
POT – POINT ON TANGENT
PP – POWER POLE
PRC – POINT OF REVERSE CURVE
PSI – POUND PER SQUARE INCH
PT&T – PACIFIC TELEPHONE AND TELEGRAPH
PUE – PUBLIC UTILITY EASEMENT
PV – PRECAST VAULT
PVC – POLYVINYL CHLORIDE
PVMT – PAVEMENT
PW – PUMPING WELL

R – RADIUS
RCB – REINFORCED CONCRETE BOX
RCP – REINFORCED CONCRETE PIPE
RE – REFERENCE ELECTRODE
REBAR – REINFORCING BAR
REINF – REINFORCED
REQ'D – REQUIRED
RR – RAILROAD
RT – RIGHT
RTU – REMOTE TERMINAL UNIT
R/W – RIGHT OF WAY

S – SLOPE
SCHED – SCHEDULE
SCVWD – SANTA CLARA VALLEY WATER DISTRICT
SD – STORM DRAIN
SE – SOUTHEAST
SHT – SHEET
SJMW – SAN JOSE MUNICIPAL WATER
SJWC – SAN JOSE WATER COMPANY
SOMCL – STANDARD OIL MASTIC CEMENT LINED
SPECS – SPECIFICATIONS
SPRR – SOUTHERN PACIFIC RAILROAD
SQ – SQUARE
SS – SANITARY SEWER
SSTL – STAINLESS STEEL
ST – STREET
STA – STATION
STD – STANDARD
STL – STEEL
STRD – STRANDED
SW – SOUTHWEST
SYM – SYMMETRICAL

T – TELEPHONE
T – THICKNESS OF PLATE OR DIMENSION OF WELD
TAN – TANGENT
TBM – TEMPORARY BENCH MARK
TC – TELEMETRY CABLE
TCA – TEMPORARY CONSTRUCTION AREA
TCE – TEMPORARY CONSTRUCTION EASEMENT
TCS – TELEMETRY CABLE SPLICE
TEL – TELEPHONE
THW – THERMAL PLASTIC MOISTURE AND HEAT RESISTANT
THWN – THERMAL PLASTIC WITH NYLON COATING MOISTURE AND HEAT RESISTANT
TOB – TOP OF BANK
TOT – TOTAL
TP – TEST PIT LOCATION
TR – TAPE WRAPPED
TS – TRAFFIC SIGNAL
TYP – TYPICAL
TOW – TOP OF WALL

UG – UNDERGROUND
UPRR – UNION PACIFIC RAILROAD
U/S – UPSTREAM
USGS – UNITED STATES GEOLOGICAL SURVEY

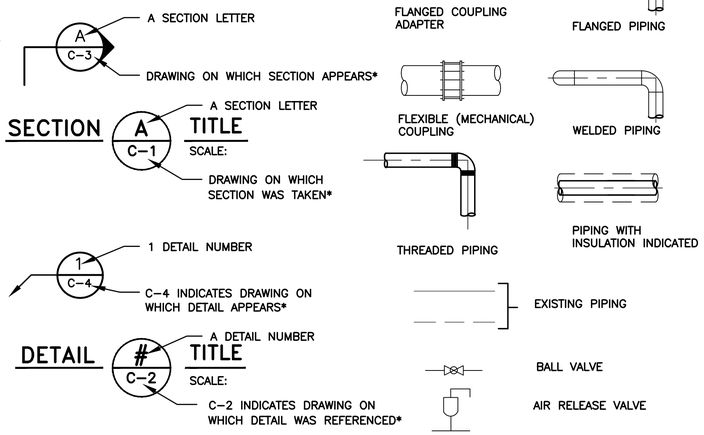
V – VOLTAGE
VAC – VOLTAGE ALTERNATING CURRENT
VCD – VACANT CONDUIT
VCP – VITRIFIED CLAY PIPE
VERT – VERTICAL

W – WATER
WP – WORK POINT
WSP – WELDED STEEL PIPE
WST – WATER STOP
WSCL – WRAPPED STEEL CEMENT LINED
WV – WATER VALVE
WWF – WELDED WIRE FABRIC
W/ – WITH

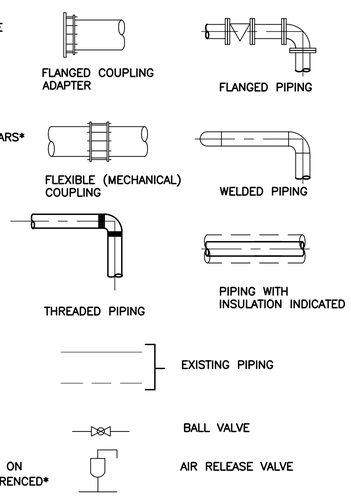
& – AND
@ – AT
℄ – CENTERLINE
Ø – DIAMETER
℘ – PROPERTY LINE

DETAIL AND SECTION DESIGNATION

* IF SECTION OR DETAIL APPEARS ON THE SAME DRAWING AS THE CALLOUT, THE DRAWING REFERENCE IS REPLACED WITH A DASH (–)



PIPE SYMBOLS



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
- TYPE I – TRAFFIC BARRICADE
- TYPE III – TRAFFIC BARRICADE
- K–RAIL BARRIER

MISCELLANEOUS

- ELECTROLIER
- ELECTROLIER
- GUY WIRE
- STORM DRAIN OUTFALL

LINE TYPE LEGEND

EXISTING		PROPOSED
CTV	℄ CABLE TELEVISION	CTV
E	℄ ELECTRICAL LINE	E
E/T	℄ ELECTRICAL & TELEPHONE LINE	E/T
E(OH)	℄ ELECTRICAL LINE – OVERHEAD	E(OH)
G	℄ GAS LINE	G
IR	℄ IRRIGATION LINE	IR
SD	℄ STORM DRAIN LINE	SD
SS	℄ SANITARY SEWER LINE	SS
T	℄ TELEPHONE LINE	T
T(OH)	℄ TELEPHONE LINE – OVERHEAD	T(OH)
TS	℄ TRAFFIC SIGNAL LINE	TS
TC	℄ TELEMETRY LINE	TC
W	℄ WATER LINE	W
RCW	℄ RECYCLED WATER LINE	RCW
X	℄ BARBED WIRE FENCE LINE	X
o	℄ CHAIN LINK FENCE LINE	o
//	℄ WOODEN FENCE LINE	//
TOP / TOE	CUT OR FILL SLOPE	TOP / TOE
	CENTER LINE	
	HIDDEN LINE	
	GROUND	
	EDGE OF ROAD/DITCH	
	PROPERTY AND LOT LINES	
	SCVWD PERMANENT EASEMENT	
	SCVWD ROW	
	TCE	
	ACCESS EASEMENT	
	COUNTY PROPERTY LINE	
	UTILITY EASEMENT	

SYMBOLS LEGEND

EXISTING		PROPOSED
EXISTING JOINT POLE	JP	PROPOSED JOINT POLE
EXISTING POWER POLE	PP	PROPOSED POWER POLE
EXISTING TELEPHONE POLE	TP	PROPOSED TELEPHONE POLE
EXISTING ELECTRICAL MANHOLE	E	PROPOSED ELECTRICAL MANHOLE
EXISTING ELECTRIC METER	EM	PROPOSED ELECTRIC METER
EXISTING STORM DRAIN MANHOLE	SD	PROPOSED STORM DRAIN MANHOLE
EXISTING CATCH BASIN / SD INLET	CB	PROPOSED CATCH BASIN / SD INLET
EXISTING SANITARY CLEANOUT	S CO	PROPOSED SANITARY CLEANOUT
EXISTING SANITARY MANHOLE	S	PROPOSED SANITARY MANHOLE
EXISTING TELEPHONE MANHOLE	T	PROPOSED TELEPHONE MANHOLE
EXISTING WATER VALVE		PROPOSED WATER VALVE
EXISTING WATER METER	WM	PROPOSED WATER METER
EXISTING BLOWOFF		PROPOSED BLOWOFF
EXISTING FIRE HYDRANT	OH	PROPOSED FIRE HYDRANT
EXISTING GAS VALVE	GV	PROPOSED GAS VALVE
EXISTING GAS METER	GM	PROPOSED GAS METER
EXISTING DEEP ANODE BED	A	PROPOSED DEEP ANODE BED
EXISTING REFERENCE ELECTRODE TEST STATION	R	PROPOSED REFERENCE ELECTRODE TEST STATION
EXISTING INSULATION JOINT	IJ	PROPOSED INSULATION JOINT
EXISTING PRECAST VAULT	PV	PROPOSED PRECAST VAULT
EXISTING TELEMETRY CABLE PULLBOX	TL	PROPOSED TELEMETRY CABLE PULLBOX
EXISTING VENTILATION STRUCTURE	V	PROPOSED VENTILATION STRUCTURE
EXISTING TREE		PROPOSED TREE

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION: REGISTERED PROFESSIONAL ENGINEER, JOUHAN LEE, No. C42456, CIVIL, STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

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–05
SHEET NUMBER: 5

DOCUMENT NUMBER: COO–G–9248–75847

USERNAME: RamaSain 1/12/2023 6:55 PM
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USERNAME: Zafakhan 1/12/2023 4:41 PM
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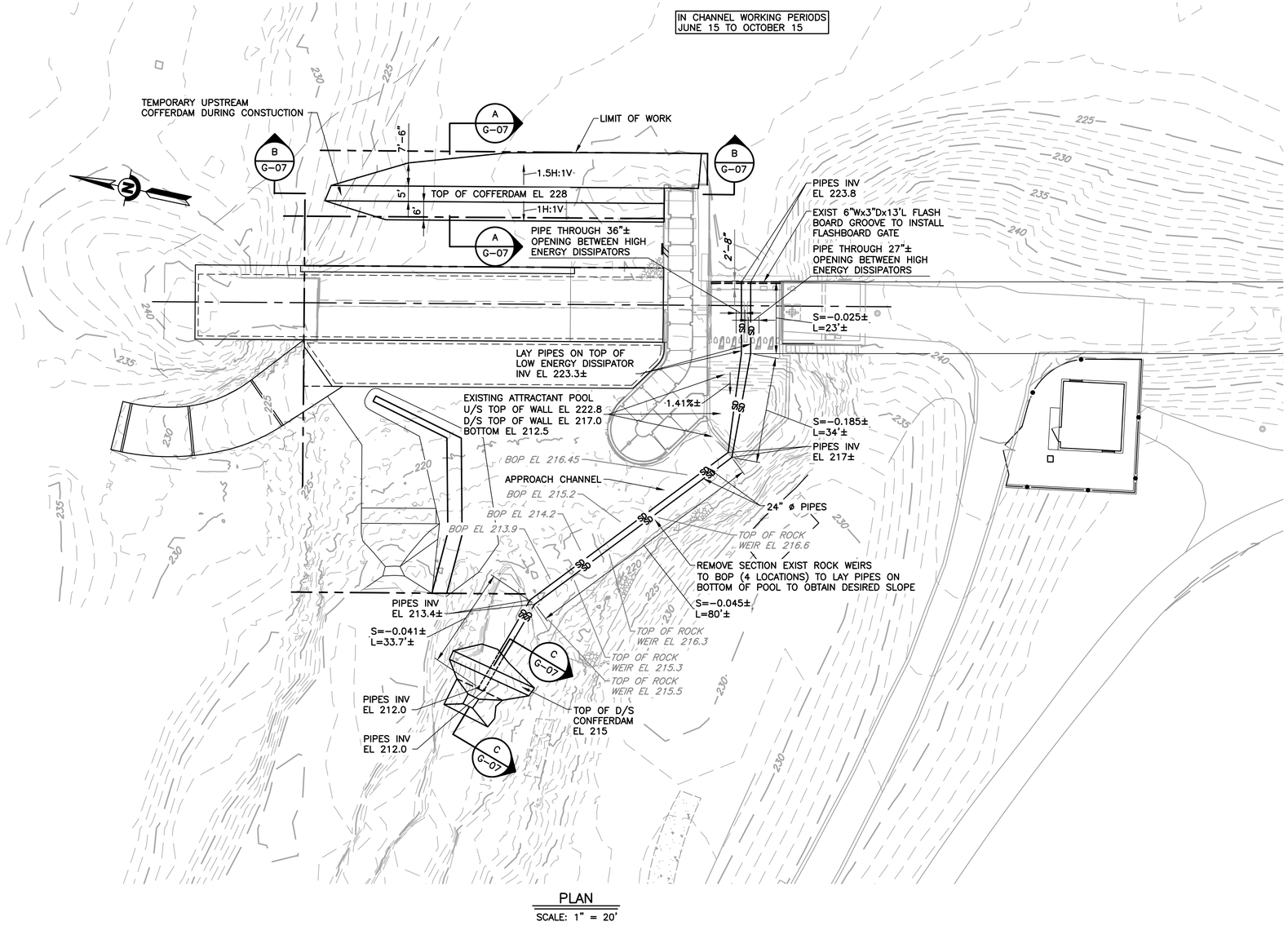


PLAN
SCALE: 1" = 20'

DOCUMENT NUMBER: COO-G-9248-75848

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

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

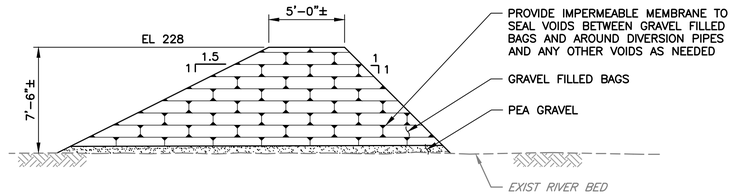
SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
CREEK DEWATERING AND DIVERSION PLAN

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

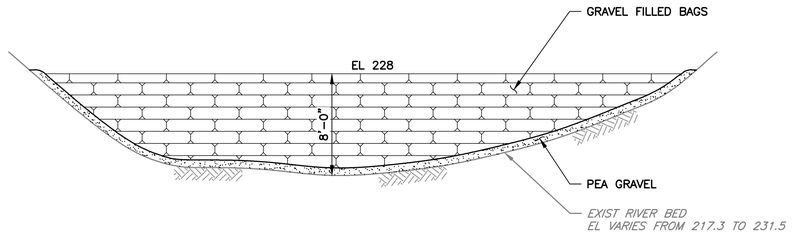
PROJECT NUMBER: 91864009
SHEET CODE: G-06
SHEET NUMBER: 6

USERNAME: Zafakhan 1/12/2023 4:42 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\G-07.dwg



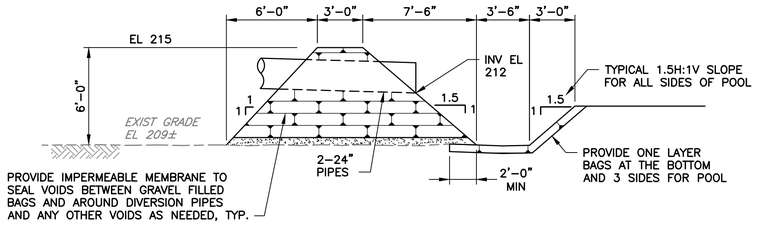
SECTION A G-06 UPSTREAM COFFERDAM

SCALE: NTS



SECTION B G-06 COFFERDAM

SCALE: NTS



SECTION C G-06 DOWNSTREAM COFFERDAM

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) 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.)
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.

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: COO-G-9248-75849

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

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

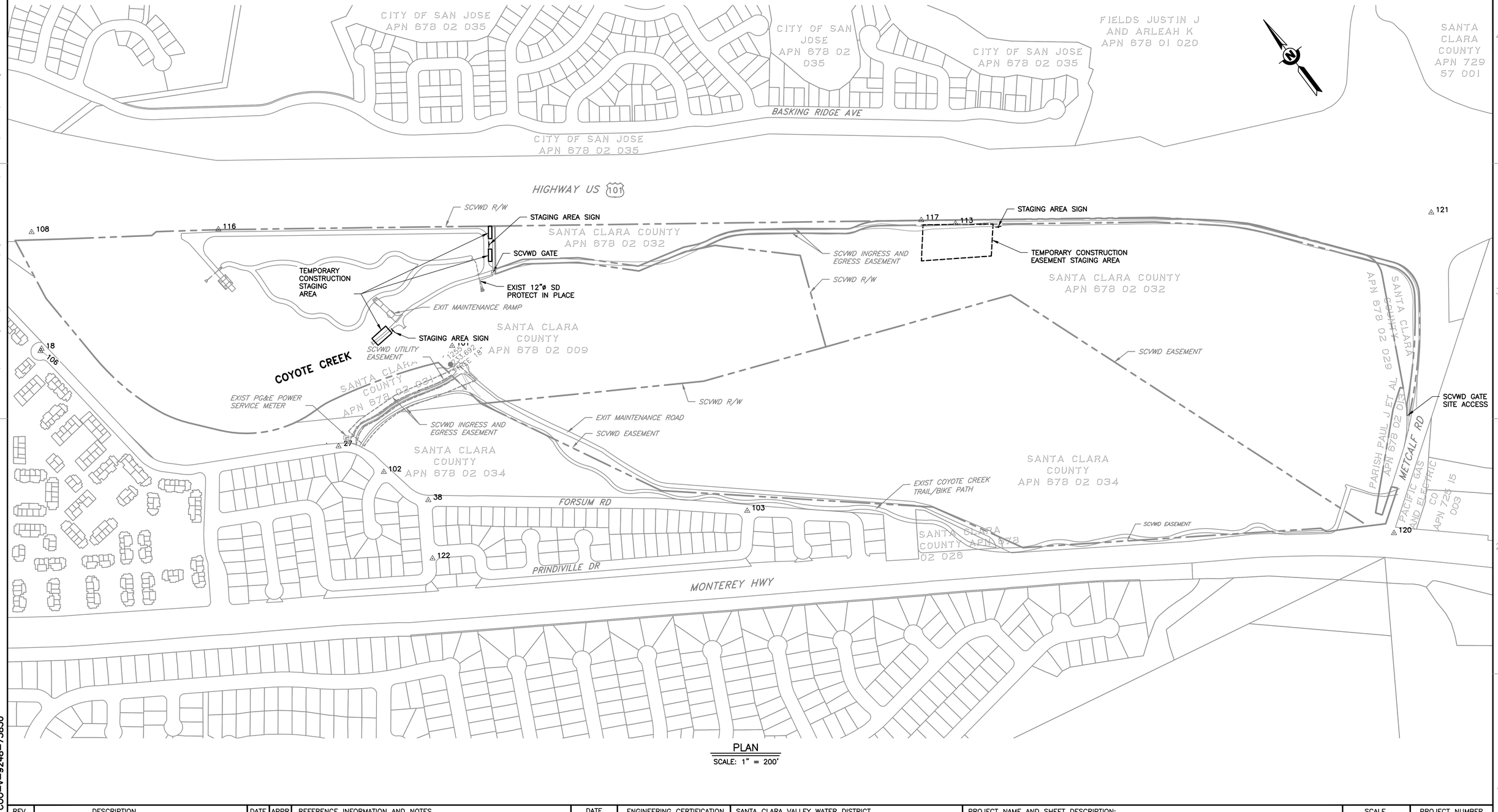
SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
TYPICAL COFFERDAM SECTION

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-07
SHEET NUMBER: 7

USERNAME: OscaReyn 1/12/2023 4:42 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\V-01.dwg



PLAN
SCALE: 1" = 200'

DOCUMENT NUMBER: COO-V-9248-75850

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

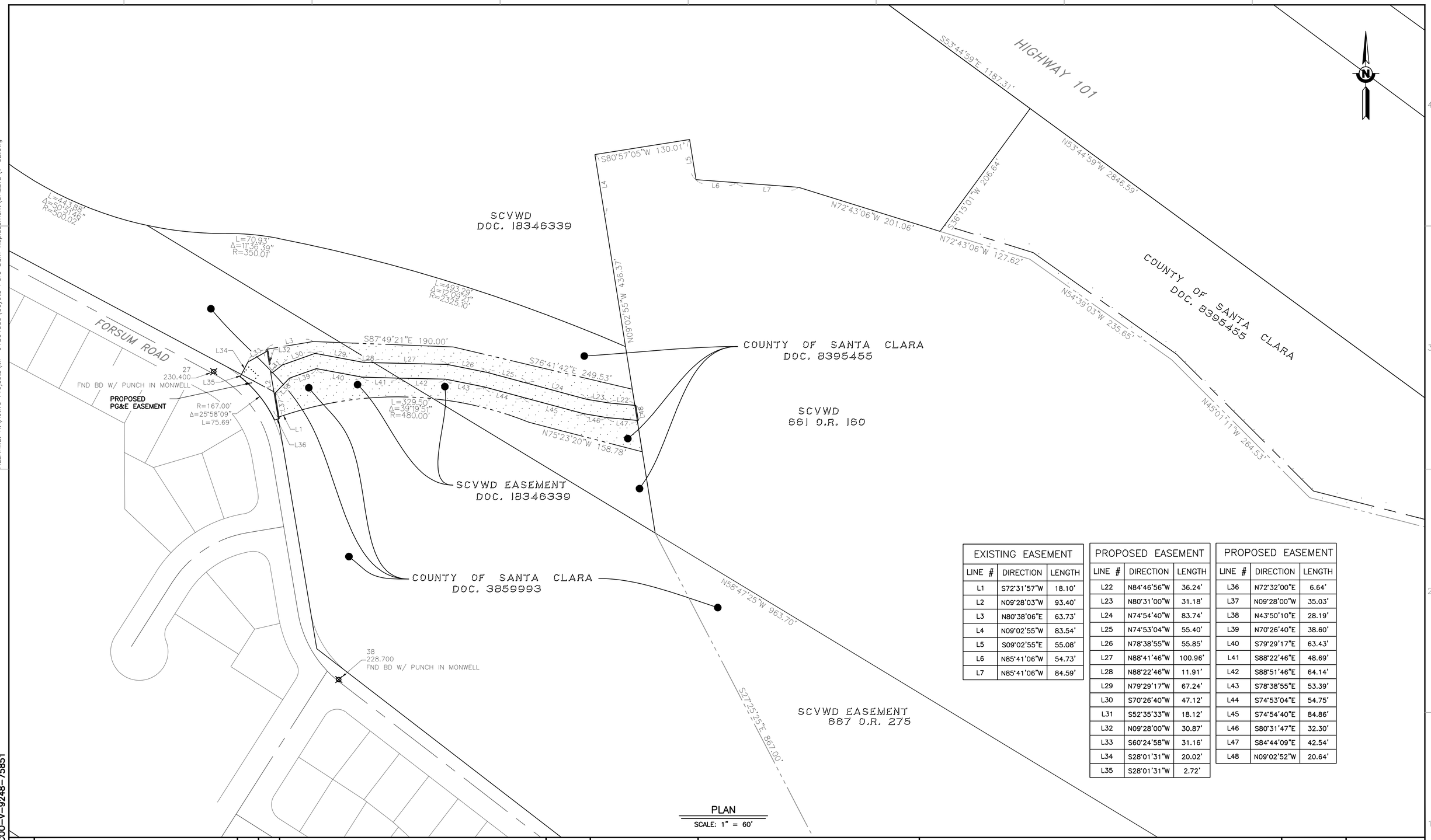
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — DUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

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: V-01
SHEET NUMBER: 8



PLAN

SCALE: 1" = 60'

EXISTING EASEMENT		
LINE #	DIRECTION	LENGTH
L1	S72°31'57"W	18.10'
L2	N09°28'03"W	93.40'
L3	N80°38'06"E	63.73'
L4	N09°02'55"W	83.54'
L5	S09°02'55"E	55.08'
L6	N85°41'06"W	54.73'
L7	N85°41'06"W	84.59'

PROPOSED EASEMENT		
LINE #	DIRECTION	LENGTH
L22	N84°46'56"W	36.24'
L23	N80°31'00"W	31.18'
L24	N74°54'40"W	83.74'
L25	N74°53'04"W	55.40'
L26	N78°38'55"W	55.85'
L27	N88°41'46"W	100.96'
L28	N88°22'46"W	11.91'
L29	N79°29'17"W	67.24'
L30	S70°26'40"W	47.12'
L31	S52°35'33"W	18.12'
L32	N09°28'00"W	30.87'
L33	S60°24'58"W	31.16'
L34	S28°01'31"W	20.02'
L35	S28°01'31"W	2.72'

PROPOSED EASEMENT		
LINE #	DIRECTION	LENGTH
L36	N72°32'00"E	6.64'
L37	N09°28'00"W	35.03'
L38	N43°50'10"E	28.19'
L39	N70°26'40"E	38.60'
L40	S79°29'17"E	63.43'
L41	S88°22'46"E	48.69'
L42	S88°51'46"E	64.14'
L43	S78°38'55"E	53.39'
L44	S74°53'04"E	54.75'
L45	S74°54'40"E	84.86'
L46	S80°31'47"E	32.30'
L47	S84°44'09"E	42.54'
L48	N09°02'52"W	20.64'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: COO-V-9248-75851

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

ENGINEERING CERTIFICATION

PROFESSIONAL LAND SURVEYOR
JESSICA DeMARTINI
PLS 9095
STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

SURVEY RIGHT OF WAY 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: V-02

SHEET NUMBER: 9

USERNAME: OscaReyn 1/12/2023 4:42 PM
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USERNAME: RamaSain 1/12/2023 6:59 PM
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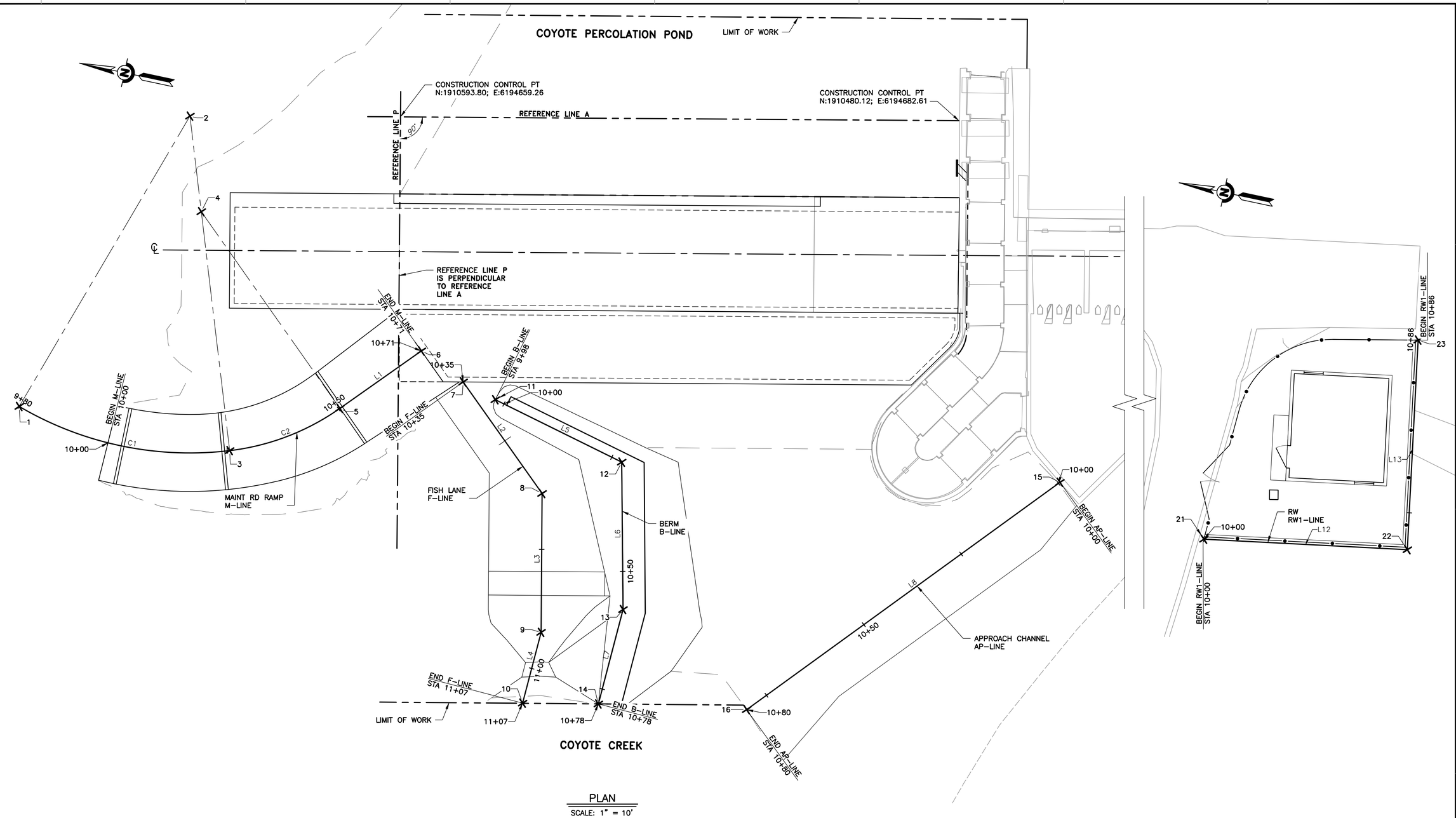

PLAN
SCALE: 1" = 10'

DOCUMENT NUMBER: COO-V-9248-75852

REV	DESCRIPTION	DATE	APPR

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

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
CONTROL LINES 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:	V-03
SHEET NUMBER:	10

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'	EOC	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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DOCUMENT NUMBER: COO-V-9248-75853

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

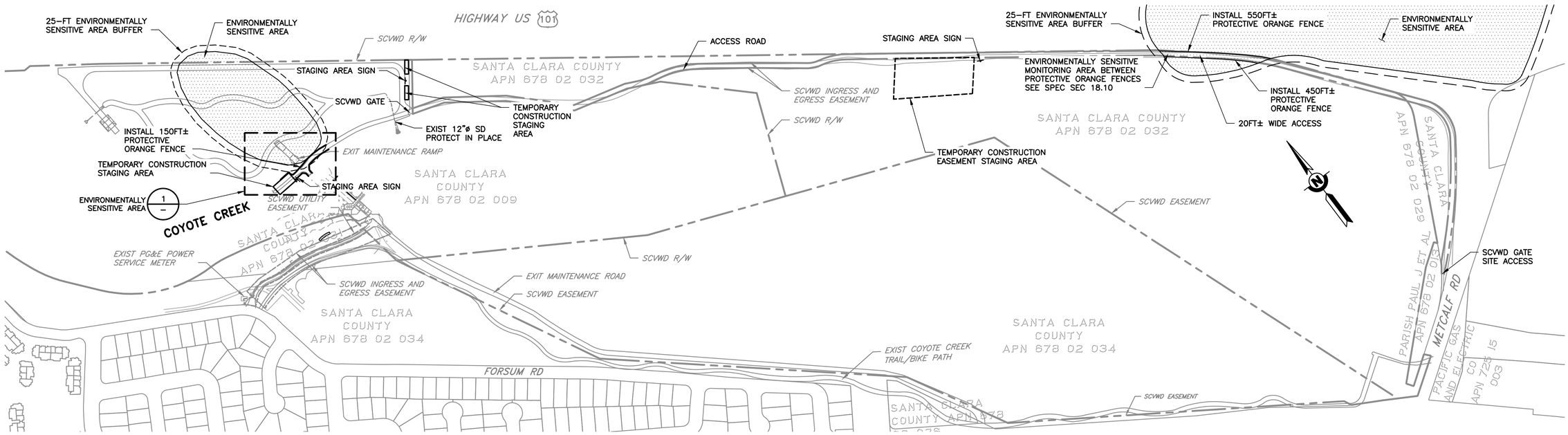
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — YOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

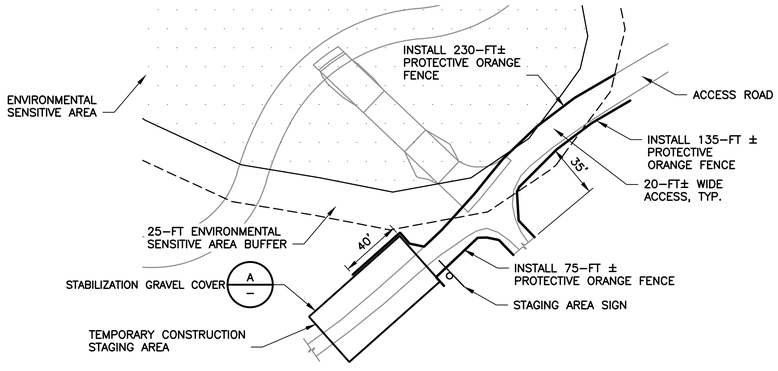
PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
SURVEY CONTROL DATA

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

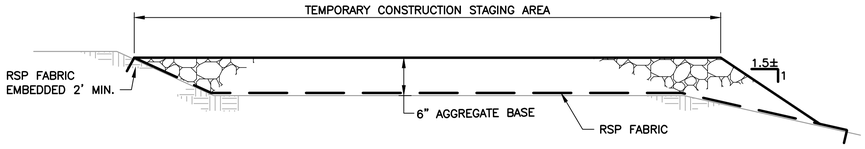
PROJECT NUMBER: 91864009
SHEET CODE: V-04
SHEET NUMBER: 11



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
1. SEE SPEC SEC 18 FOR EN

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
ENVIRONMENTALLY SENSITIVE AREA PLAN, DETAIL

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: V-05
SHEET NUMBER: 12

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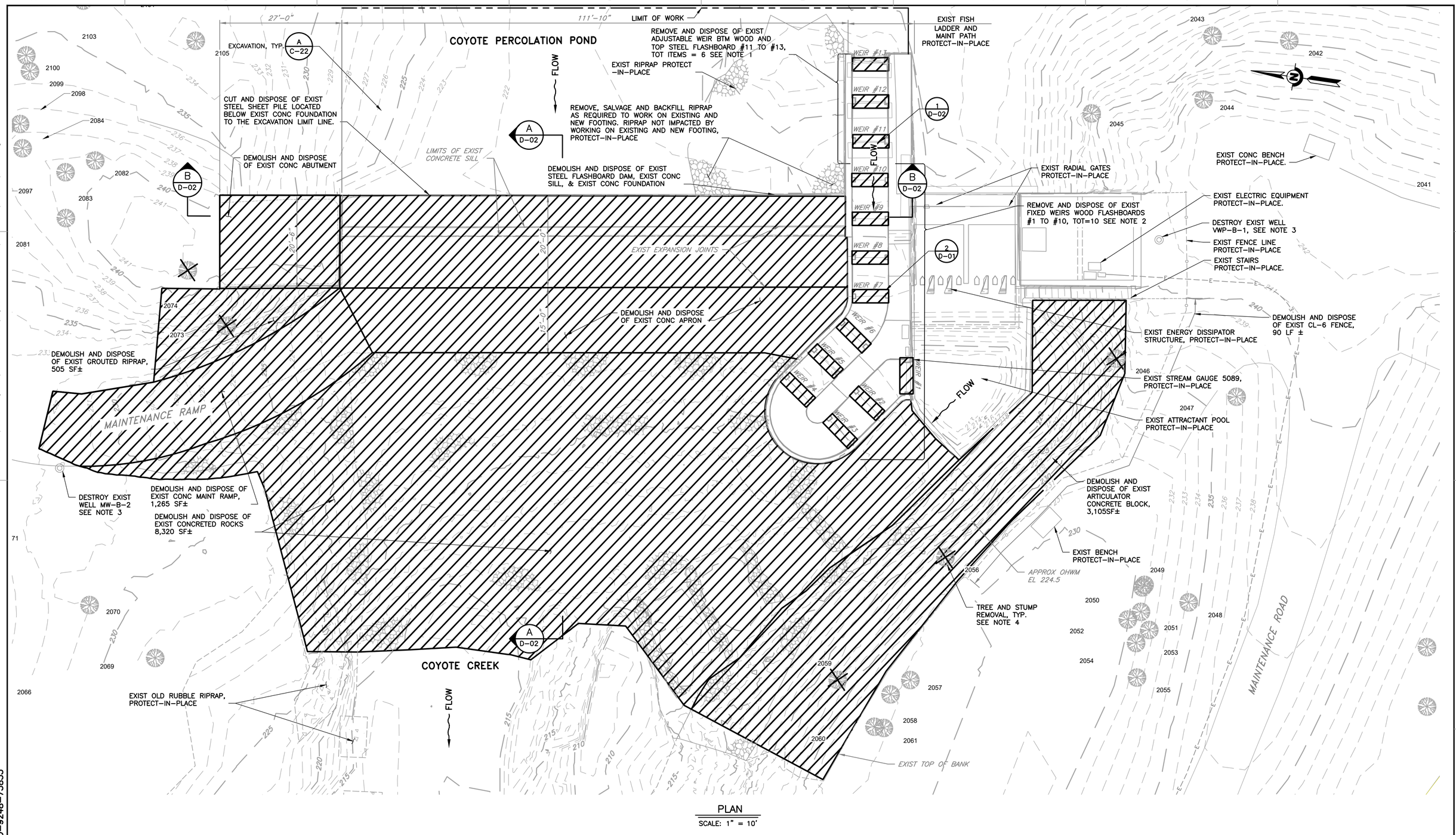

PLAN
SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

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

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

SCALE	PROJECT NUMBER
AS SHOWN	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-01 SHEET NUMBER: 13

DOCUMENT NUMBER: COO-D-9248-75855

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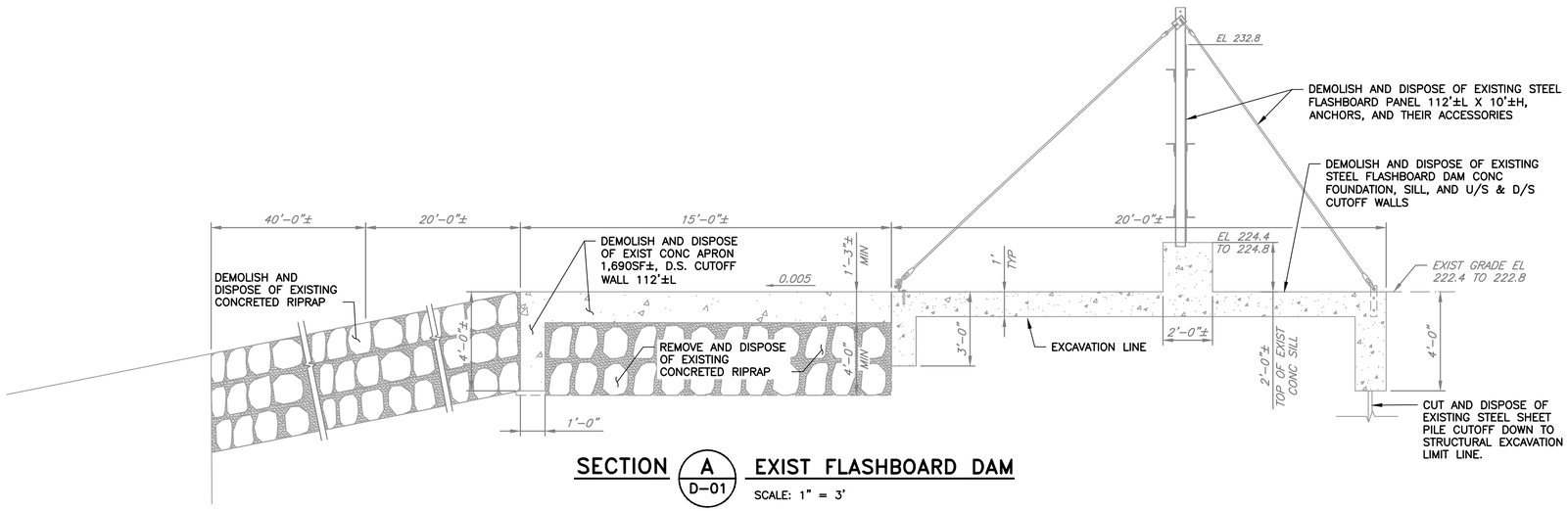
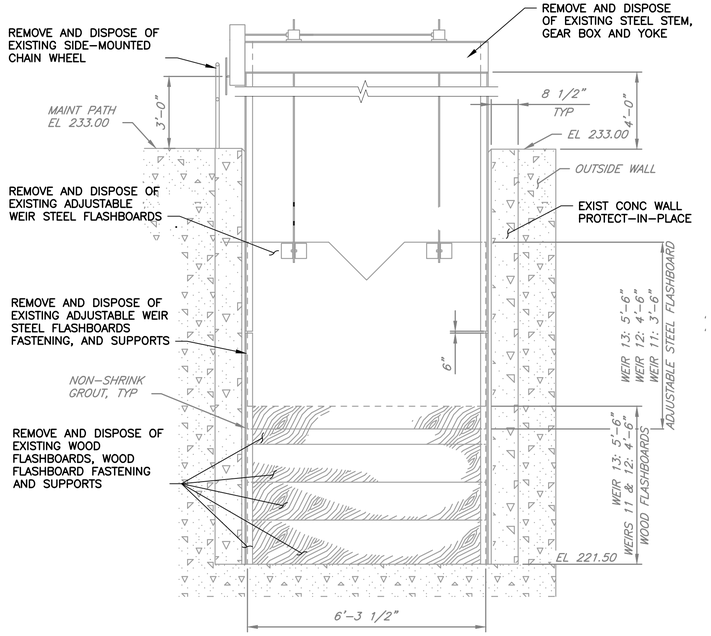


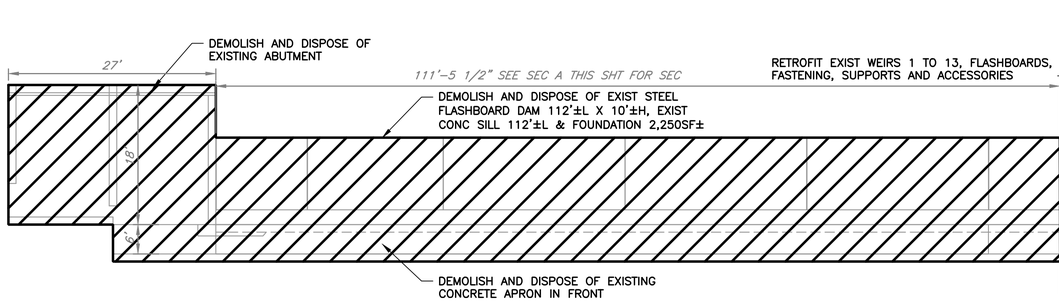
SECTION A D-01 EXIST FLASHBOARD DAM

SCALE: 1" = 3'



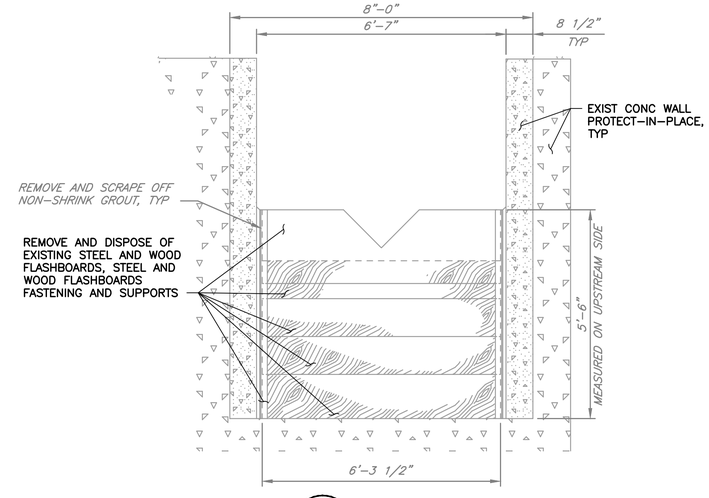
DETAIL 1 D-01 EXIST ADJUSTABLE WEIR LOOKING DOWNSTREAM

SCALE: N.T.S.



SECTION B D-01 EXIST FLASHBOARD DAM

SCALE: 1" = 10'



DETAIL 2 D-01 EXIST FIXED WEIR

SCALE: N.T.S.

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — JOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

DEMOLITION 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: D-02

SHEET NUMBER: 14

DOCUMENT NUMBER: COO-D-9248-75856

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USERNAME: Zafakhan 1/12/2023 4:44 PM
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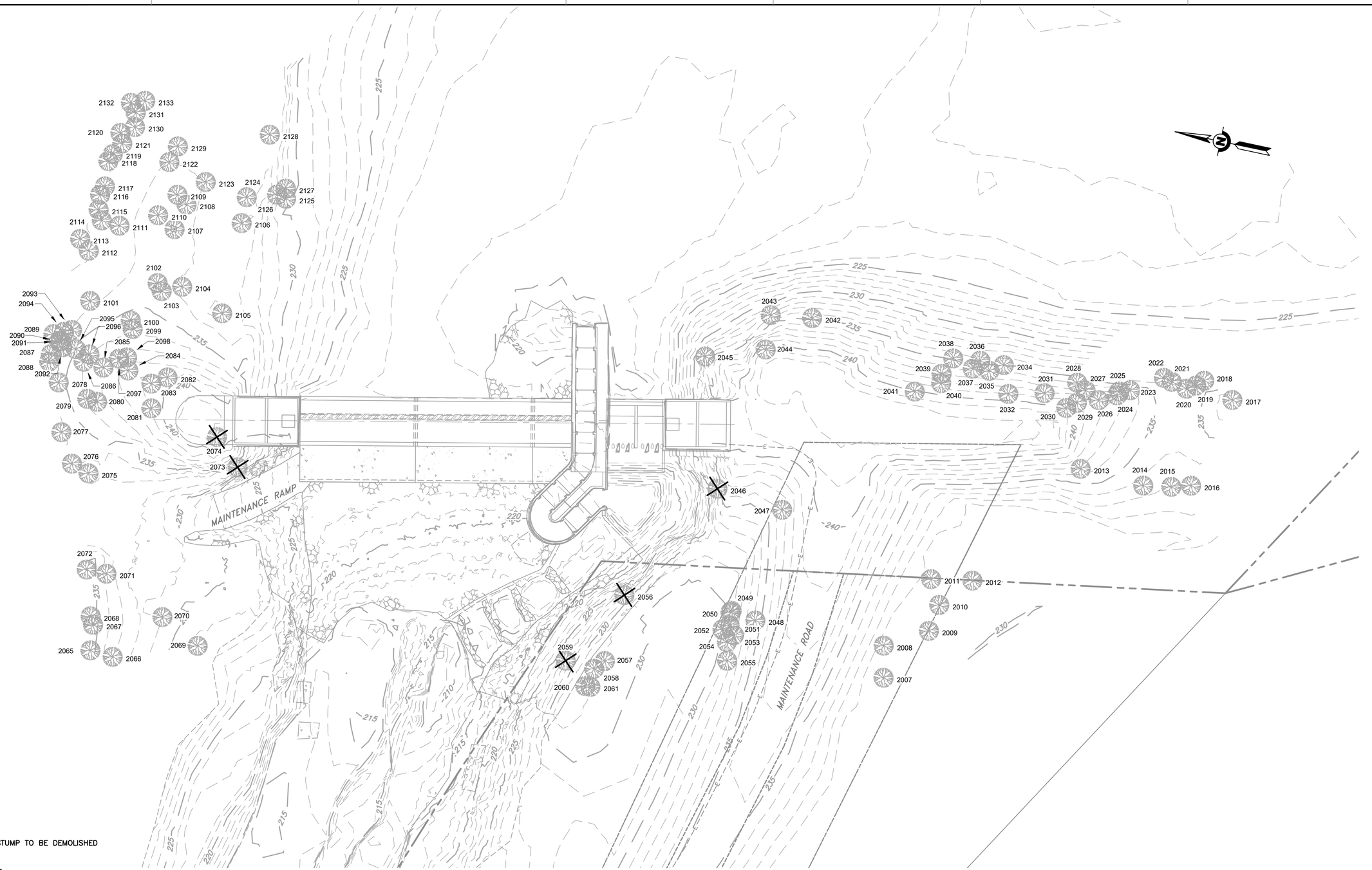


LEGEND

- TREES AND STUMP TO BE DEMOLISHED
- EXIST TREES

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

DOCUMENT NUMBER: COO-D-9248-75857

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
TREE AND STUMP REMOVAL DATA

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-03
SHEET NUMBER: 15

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").

USERNAME: Zafakhan 1/12/2023 4:44 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\D-04.dwg

DOCUMENT NUMBER: COO-D-9248-75858

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

USERNAME: RamaSain 1/12/2023 9:03 PM
FILENAME: \\srvfile1\engineering plans\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\C-01.dwg

CONTINUE AREA A EROSION PROTECTION FOR 2.5H:1V CUT SURFACE TO WHERE DAYLIGHT LINE JOINTS TOE LINE

EROSION PROTECTION AREA A W/ 75LB ROCK TOB EL 232 (A/C-22)

EROSION PROTECTION AREA A W/ 75LB ROCK TOB EL 232

TOE PROTECTION

LIMIT OF WORK

CONFORMED

DAYLIGHT LINE

116'-1"

COYOTE PERCOLATION POND

2.5H:1V

EL 222.2

FLOW

INSTALL WATER LEVEL SENSOR (2) (1/C-04)

11'

WEIR #13

1/C-04 FISH LADDER RETROFIT

CONSTRUCTION CONTROL PT N:1910593.80; E:6194659.26

REFERENCE LINE A

B/C-02 CONSTRUCTION CONTROL PT N:1910480.12; E:6194682.61

POOL #12

WEIR #12

REFERENCE LINE B

90°

VARIES 35' U/S TO 35'-5" D/S

VARIES 84'-10" U/S TO 84' D/S

VARIES 31'-3" U/S TO 31'-8" D/S

POOL #11

WEIR #11

RADIAL GATE ACTUATOR #2, PROTECT-IN-PLACE

1/C-19 INSTALL FISH LADDER CONTROL PANEL

EXIST RADIAL GATES PROTECT-IN-PLACE

RADIAL GATE ACTUATOR #1, PROTECT-IN-PLACE

A/C-02

60°

16'

D/C-03

2.0'W CURB, TOP OF CURB EL 222.5

2'

C/C-12

SLOT EXIT (1/C-02)

FLOW

POOL #10

WEIR #10

POOL #9

A/C-02

EL 236

EL 222

EL 222

EL 222

EL 234.5

HYDROSEEDING & EROSION CONTROL BLANKET, TYP.

2.5H:1V SLOPED SIDEWALL

FLOATING DEBRIS BARRIER (BOOM) (1/C-04)

EXIST DERRICK BASE, PROTECT-IN-PLACE

EXIST BRANCH CIRCUIT JUNCTION BOX, PROTECT-IN-PLACE

EXIST LOAD CENTER PEDESTAL, PROTECT-IN-PLACE

EXIST 50A POWER FROM EXIST SERVICE METER AT FORSUM RD FOR EXIST EQUIPMENT

WEIR #9

WEIR #8

WEIR #7

END M-LINE STA 10+71

REFERENCE LINE B

RUBBER DAM FOOTING

24'

EL 221.82

EL 221.82

2.5H:1V SLOPED SIDEWALL

EL 221.82

EL 234.5

EL 221.82

DAYLIGHT LINE

EROSION PROTECTION AREA B W/ 1-TON ROCK TOB EL 228 (B/C-22)

EL 236

2.5H:1V

30'-0 3/8"

D/C-03

SEE SEC C SHT C-03 FOR CONC APRON

B/C-02

1/C-18 LIGHTING POLE W/ SECURITY LIGHT

EL 221'

EXIST TELEPHONE PULL BOX, PROTECT-IN-PLACE

EXIST CONTROL CABINET, PROTECT-IN-PLACE

WEIR #6

WEIR #5

WEIR #4

WEIR #1

EXIST STREAM GAUGE 5089, PROTECT-IN-PLACE

CONTROL BUILDING (1/C-14)

1/C-10 PROFILE

EL 221.87

CONFORM TO FISH LANE SLOPE

BERM STA 10+00.64 EL 224.1 H=3'

EL 221.67

15'

13'-6"

WEIR #3

WEIR #2

EL 219.5'

E/C-22 EROSION PROTECTION AREA D W/ 1 TON ROCK TOB EL 228

EL 232

M-LINE

B/C-13

11'

4'-8"

EL 218'

1.5±H:1V

HYDROSEEDING & EROSION CONTROL BLANKET, TYP.

EXIST FENCE LINE

RETAINING WALL (1/C-14)

1/C-21 90 LF ± NEW CL-8 CHAINLINK FENCE

MAINTENANCE ROAD

BEGIN M-LINE STA 0+00

MAINT RD RAMP

1/C-20 MAINTENANCE RAMP

16'±

SLOPE VARIES FROM 4.3±H:1V TO 2.0±H:1V

17'

FISH LANE F-LINE

10+50

HYDROSEEDING & EROSION CONTROL BLANKET, TYP.

EROSION PROTECTION AREA C W/ 300LB ROCK TOB EL 227 (C/C-22)

C/C-13

4'-11 1/2"

BERM B-LINE

C/C-13

3'-2"

11+00

EROSION PROTECTION AREA C DOWNSTREAM EDGE PROTECTION (D/C-22)

11+07

10+78

LIMIT OF WORK

CONFORM TO EXIST GRADE

FLOW

BOP EL 212.50

BERM STA 10+79 EL 215.8

FISH LANE (1/C-07)

CONCRETED-RSP DOWNSTREAM EDGE PROTECTION (C/C-12)

COYOTE CREEK

C/C-12

APPROACH CHANNEL DOWNSTREAM EDGE PROTECTION (A/C-11)

CONTINUE THIS LINE TO EXTEND AREA E EROSION PROTECTION TO EL 227 AND HYDROSEEDING & EROSION CONTROL BLANKET TO TOP OF BANK

FLOW

9'

10+00

1.5±H:1V

B/C-13

APPROACH CHANNEL AP-LINE

SEE SHT C-11 FOR APPROACH CHANNEL RECONSTRUCTION

F/C-22 EROSION PROTECTION AREA E W/ 1 TON ROCK TOB EL 227

10+50

9'

10+80

13'

EL 215.6

APPROACH CHANNEL CONTROL LINE ALONG THALWEG SEE SHT C-11

EXIST TOP OF BANK

SLOPE VARIES FROM AP-LINE STA 10+50, 1.5± H:1V TO AP-LINE STA 10+80, 2.0± H:1V

D/C-22 EROSION PROTECTION AREA E DOWNSTREAM EDGE PROTECTION

EXIST ELECTRIC LINE

NEW ELECTRIC LINE. SEE E-02

PLAN
SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: COO-C-9248-75859

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — YOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

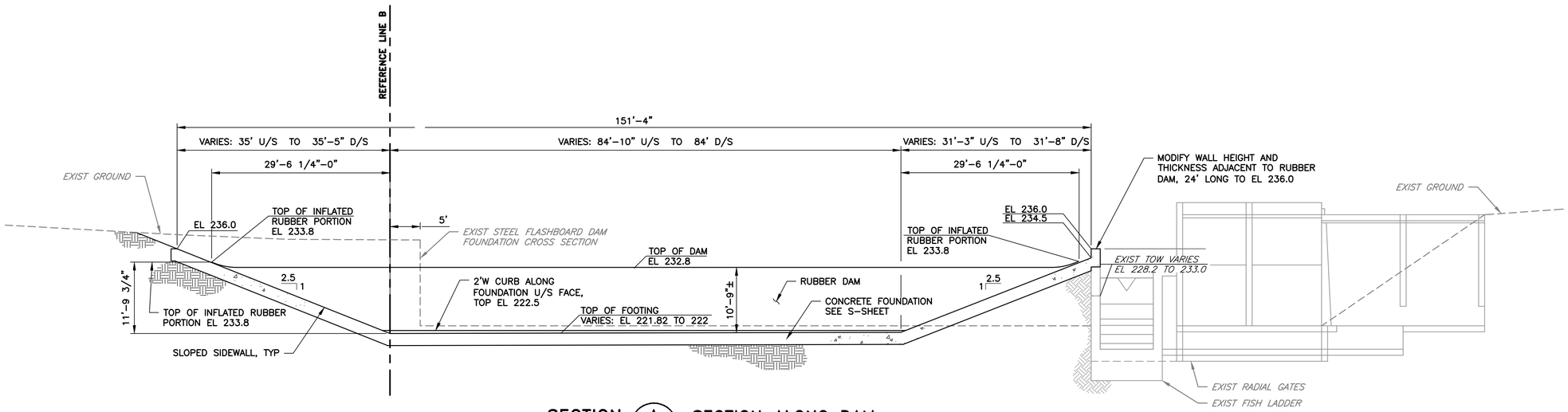
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

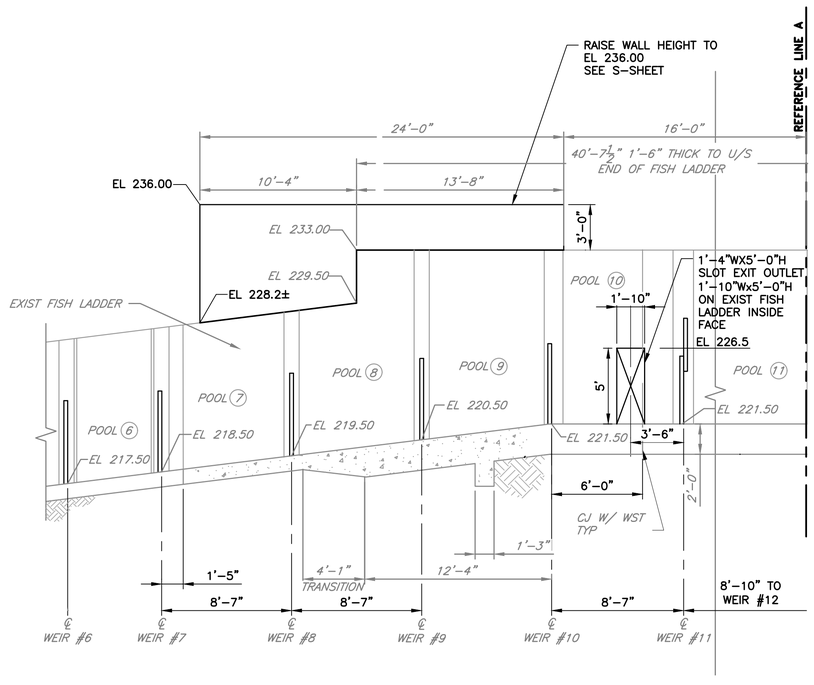
DESIGN PLAN VIEW

SCALE	PROJECT NUMBER
AS SHOWN	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-01
	SHEET NUMBER: 17



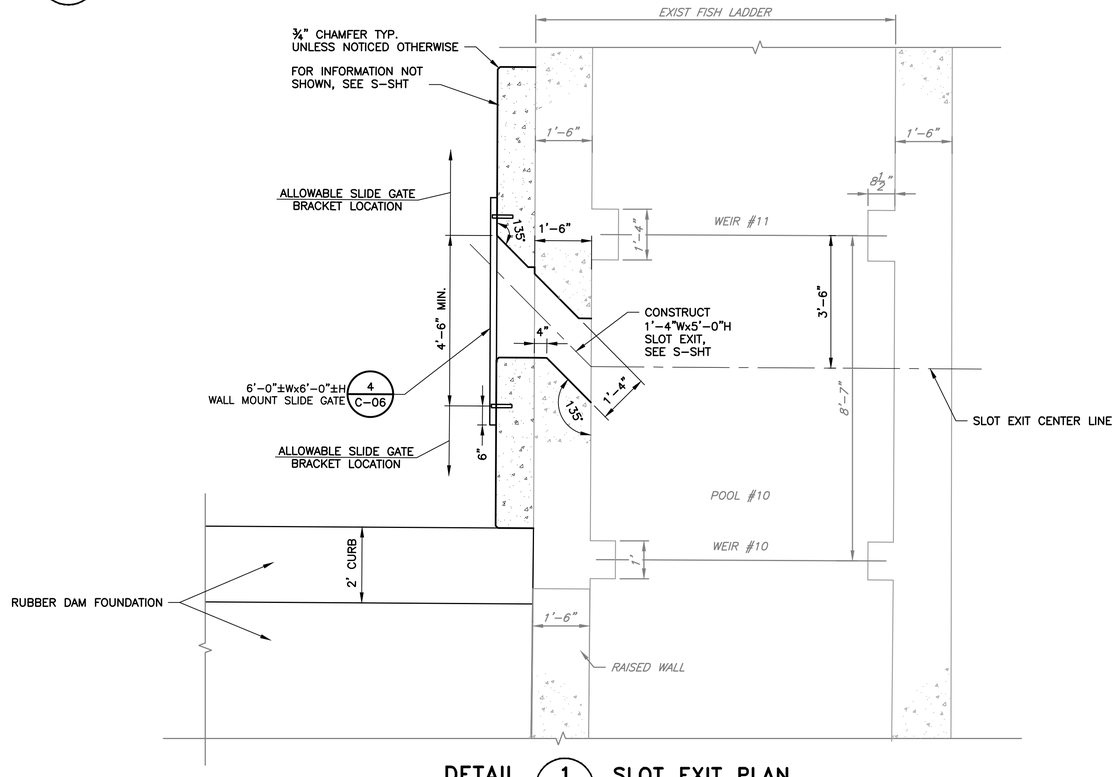
SECTION A C-01 SECTION ALONG DAM

SCALE: 1" = 10'



SECTION B C-01 RAISED WALL, SLOT EXIT

SCALE: 1" = 5'



DETAIL 1 C-01 SLOT EXIT PLAN

SCALE: 1" = 2'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: COO-C-9248-75860

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — YOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

SECTION ALONG DAM, SLOT EXIT PLAN, AND RAISED WALL

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-02
SHEET NUMBER:	18

USERNAME: OscaReyn 1/12/2023 4:44 PM
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USERNAME: Zafakhan 1/12/2023 4:45 PM
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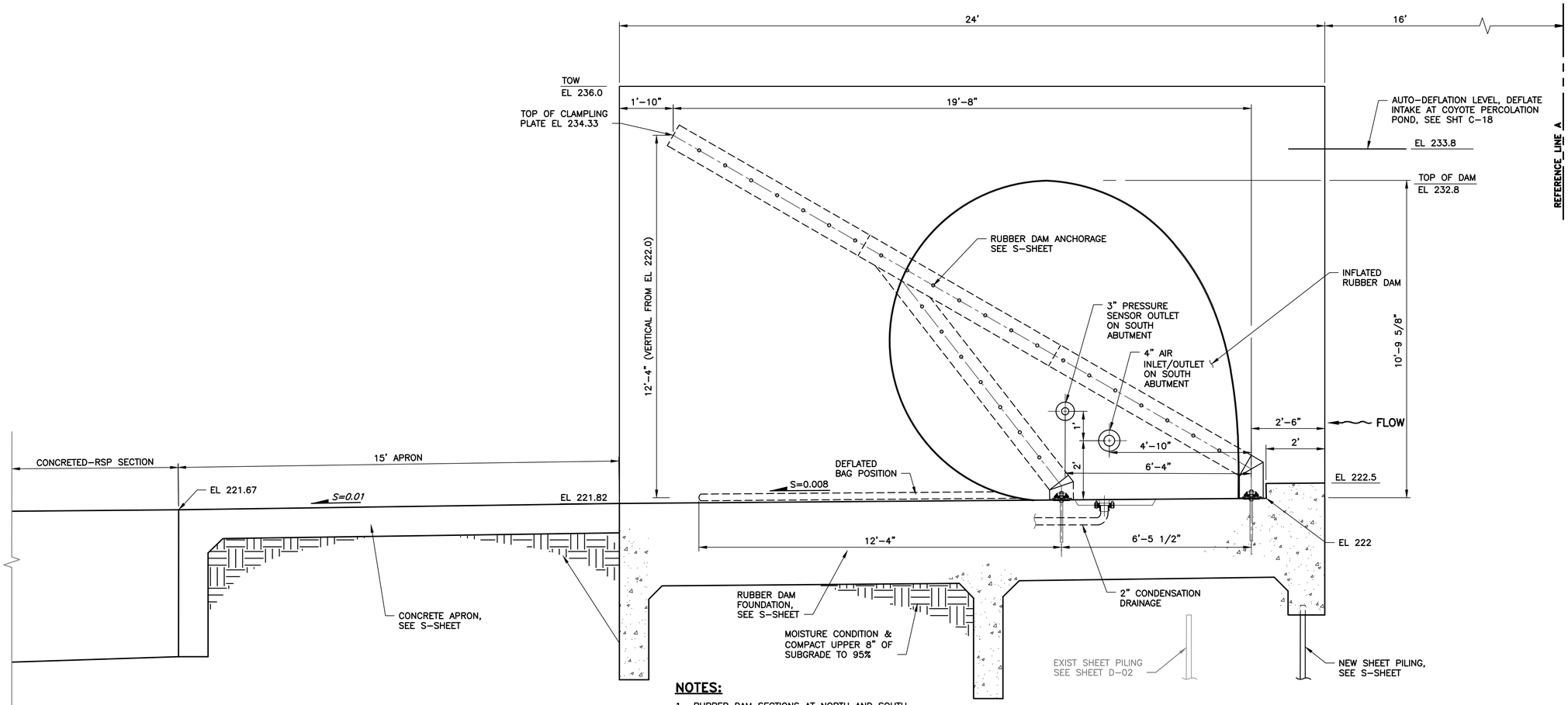

SECTION C / C-01 TYPICAL APRON SECTION

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

SECTION D / C-01 TYPICAL RUBBER DAM SECTION VIEW (SOUTH ABUTMENT)

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

NOTES:

1. RUBBER DAM SECTIONS AT NORTH AND SOUTH ABUTMENTS SEE M-SHEET.
2. RUBBER DAM DETAILS AND INSTALLATION SEE M-SHEET.

FOUNDATION EXCAVATION NOTES:

1. EXCAVATION SHALL EXTEND 2 FEET BEYOND THE FOUNDATION LIMITS TO ALLOW ROOM FOR FORMING.
2. EXCAVATION SHALL SLOPE UP TO THE ADJACENT GROUND AT A 1:1 (HORIZONTAL TO VERTICAL) SLOPE.
3. THE FOUNDATION EXCAVATION IS EXPECTED TO EXPOSE MEDIUM DENSE GRAVELLY SAND.
4. BOTTOM OF THE EXCAVATION SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES AND RECOMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION WITHIN -1 TO +3 PERCENT OF OPTIMUM MOISTURE.
5. THE FOUNDATION SUBGRADE SHOULD BE FIRM AND UNYIELDING.

DOCUMENT NUMBER: COO-C-9248-75861

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
RUBBER DAM, APRON 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-03
SHEET NUMBER: 19

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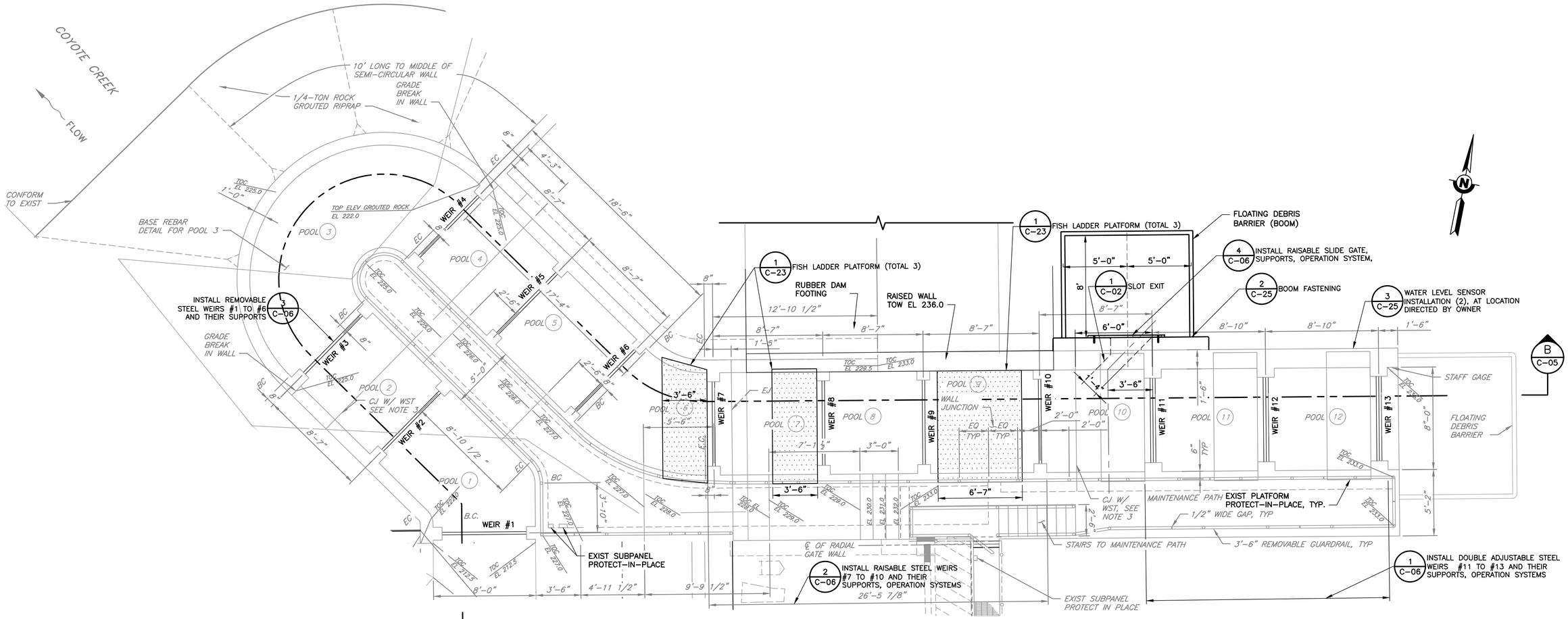

DETAIL 1 C-01 FISH LADDER RETROFIT PLAN

SCALE: 1"=4'

NOTES:

1. WEIR STEEL STEMS, GEAR BOXES, ACTUATORS AND YOKES FOR WEIRS #7 TO #13 NOT SHOWN.
2. SCVWD WILL SUPPLY ALL THE NEW STEEL WEIRS, SUPPORTS, SLIDE GATE, GEAR BOXES, ACTUATORS AND YOKES.

DOCUMENT NUMBER: COO-C-9248-75862

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
FISH LADDER RETROFIT PLAN

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-04
SHEET NUMBER: 20

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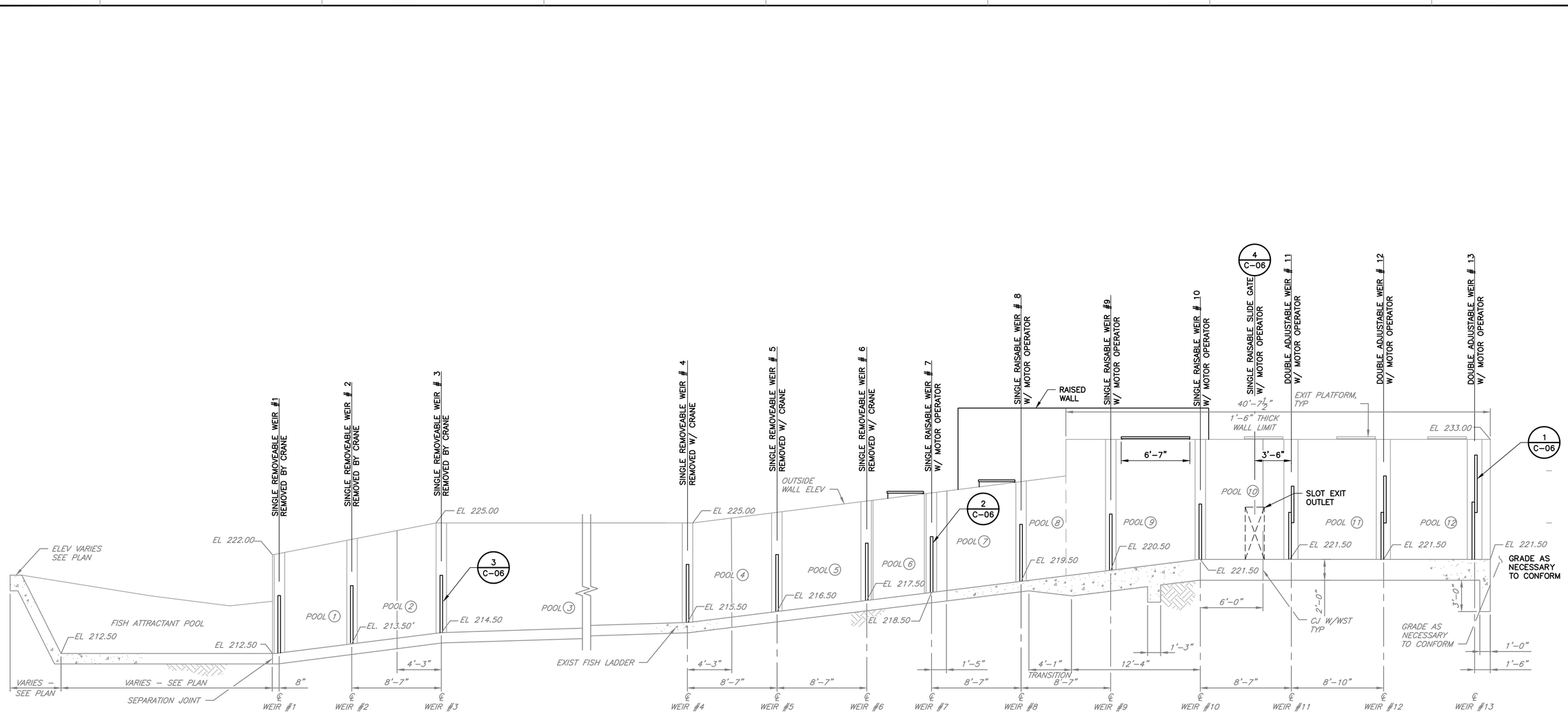


SECTION B C-04 FISH LADDER

SCALE: 1" = 5'

NOTES:

1. GUARDRAILS, DEBRIS BARRIER, WEIR STEEL STEMS, GEAR BOXES, ACTUATORS AND YOKES FOR WEIRS #7 TO #13, ETC. NOT SHOWN.
2. SEE C-06 FOR WEIR RETROFIT.

DOCUMENT NUMBER: COO-C-9248-75863

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

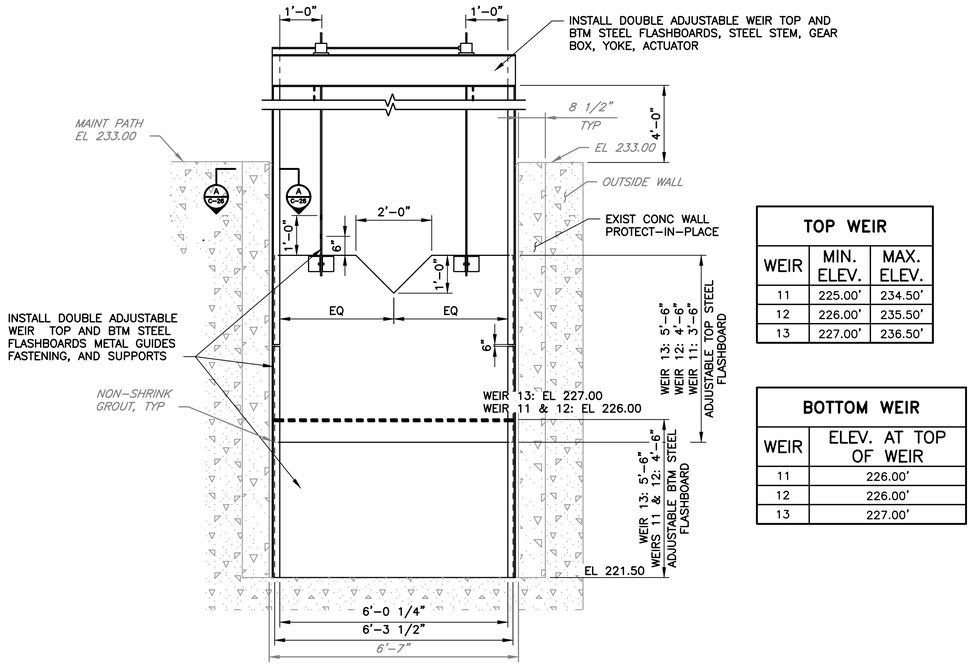
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — YOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
FISH LADDER RETROFIT SECTION

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-05
SHEET NUMBER: 21



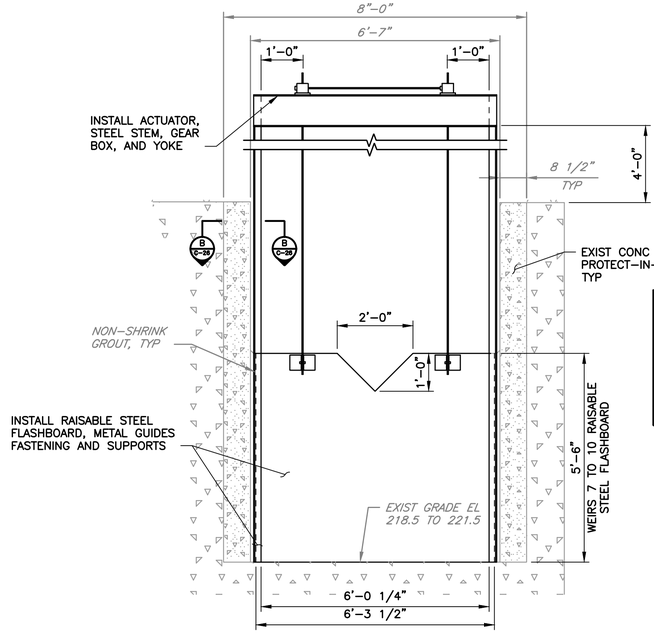
TOP WEIR		
WEIR	MIN. ELEV.	MAX. ELEV.
11	225.00'	234.50'
12	226.00'	235.50'
13	227.00'	236.50'

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

DETAIL 1 C–04 TYPICAL DOUBLE ADJUSTABLE WEIR LOOKING DOWNSTREAM

C–05

SCALE: N.T.S.

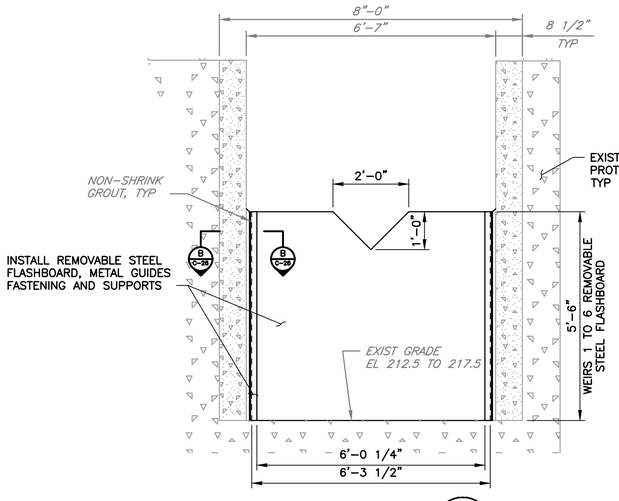


WEIR	MIN. ELEV. AT TOP OF WEIR	MAX. ELEV. AT TOP OF WEIR
7	224.00'	231.50'
8	225.00'	231.50'
9	226.00'	231.50'
10	227.00'	231.50'

DETAIL 2 C–04 SINGLE RAISABLE WEIR

C–05

SCALE: N.T.S.

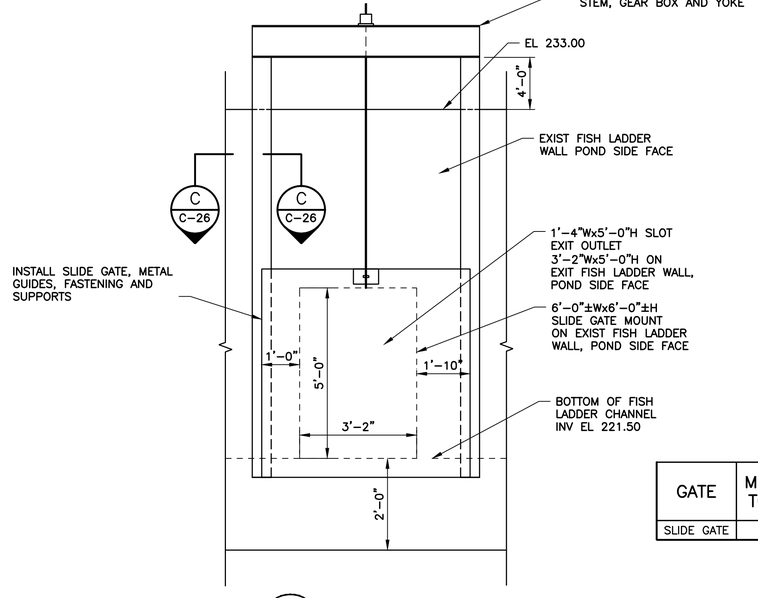


WEIR	ELEV. AT TOP OF WEIR
1	218.00'
2	219.00'
3	220.00'
4	221.00'
5	222.00'
6	223.00'

DETAIL 3 C–04 SINGLE REMOVABLE WEIR

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'

DETAIL 4 C–04 C–02 SLOT EXIT SLIDE GATE

C–04
C–05

SCALE: N.T.S.

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 – YOUHAN LEE – No. C42456 – CIVIL – STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

DOCUMENT NUMBER: COO–C–9248–75864
USERNAME: OscoReyn 1/12/2023 4:45 PM
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USERNAME: RamaSain 1/12/2023 4:06 PM
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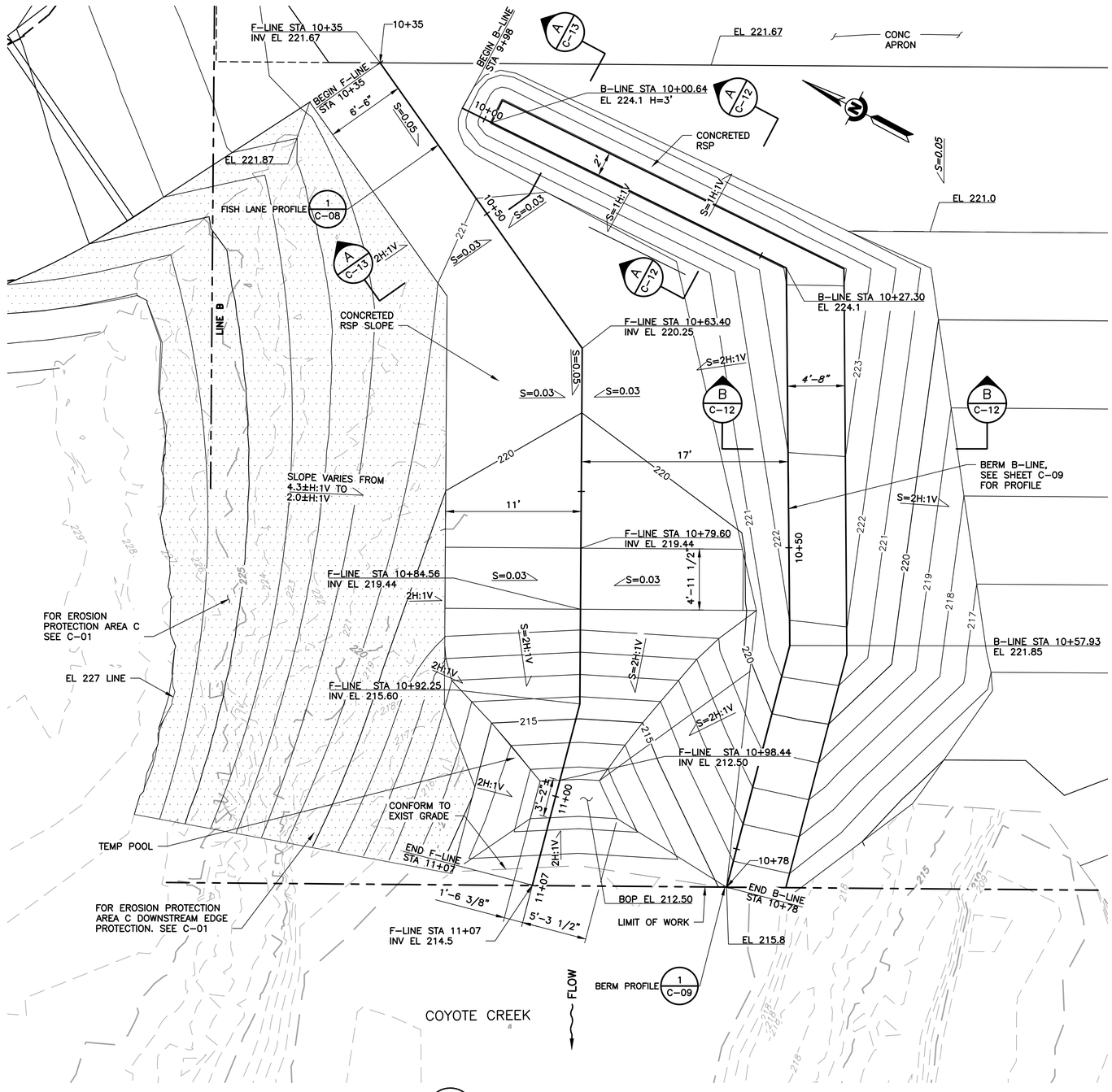

DETAIL 1 C-01 FISH LANE PLAN

SCALE: 1" = 5'-0"

DOCUMENT NUMBER: COO-C-9248-75865

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER
JOUHAN LEE
No. C42456
CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

FISH LANE PLAN

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-07

SHEET NUMBER: 23

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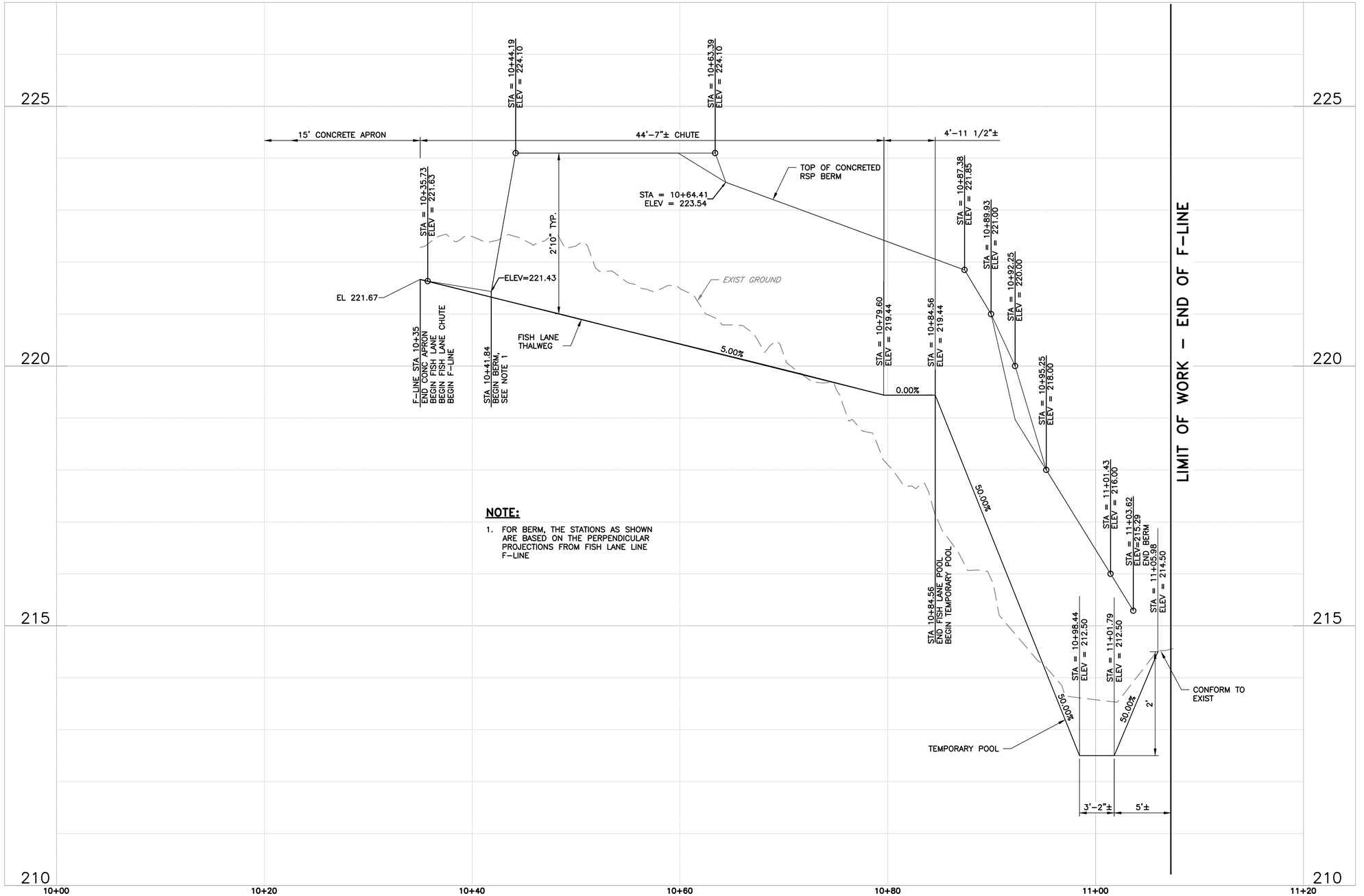

NOTE:

1. FOR BERM, THE STATIONS AS SHOWN ARE BASED ON THE PERPENDICULAR PROJECTIONS FROM FISH LANE LINE F-LINE

DETAIL 1 / C-07 FISH LANE (F-LINE) PROFILE

SCALE: HORIZ. 1"=5', VERT. 1"=1'

DOCUMENT NUMBER: COO-C-9248-75866

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
FISH LANE THALWEG PROFILE F-LINE STA 10+35 TO STA 11+06

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-08
SHEET NUMBER: 24

USERNAME: Tungtran 1/12/2023 4:46 PM
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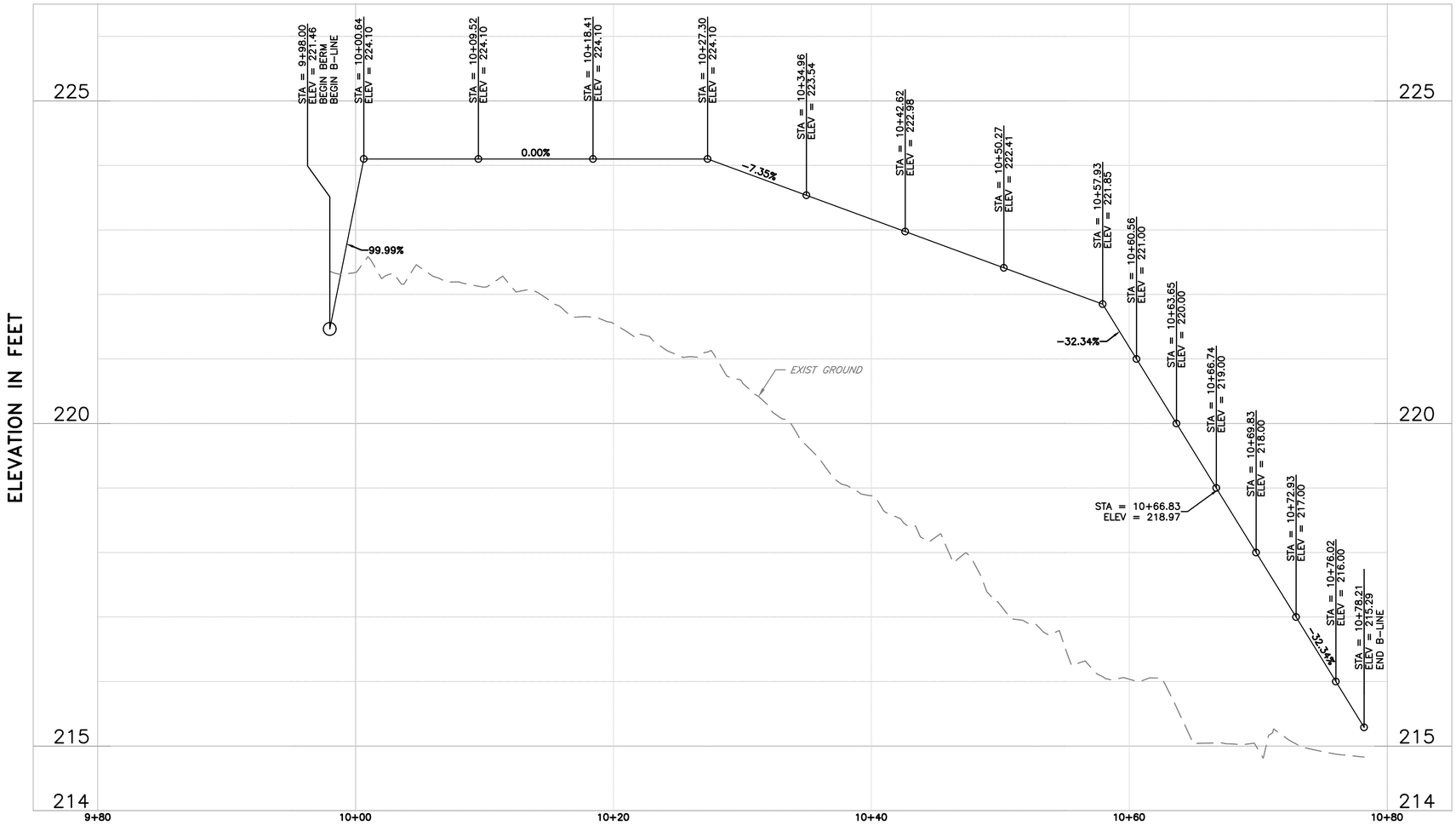

DETAIL 1 / C-07 BERM (B-LINE) PROFILE

SCALE: HORZ. 1"=5', VERT. 1"=1'

DOCUMENT NUMBER: COO-C-9248-75867

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — YOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

BERM PROFILE STA 9+98 TO STA 10+78

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-09

SHEET NUMBER: 25

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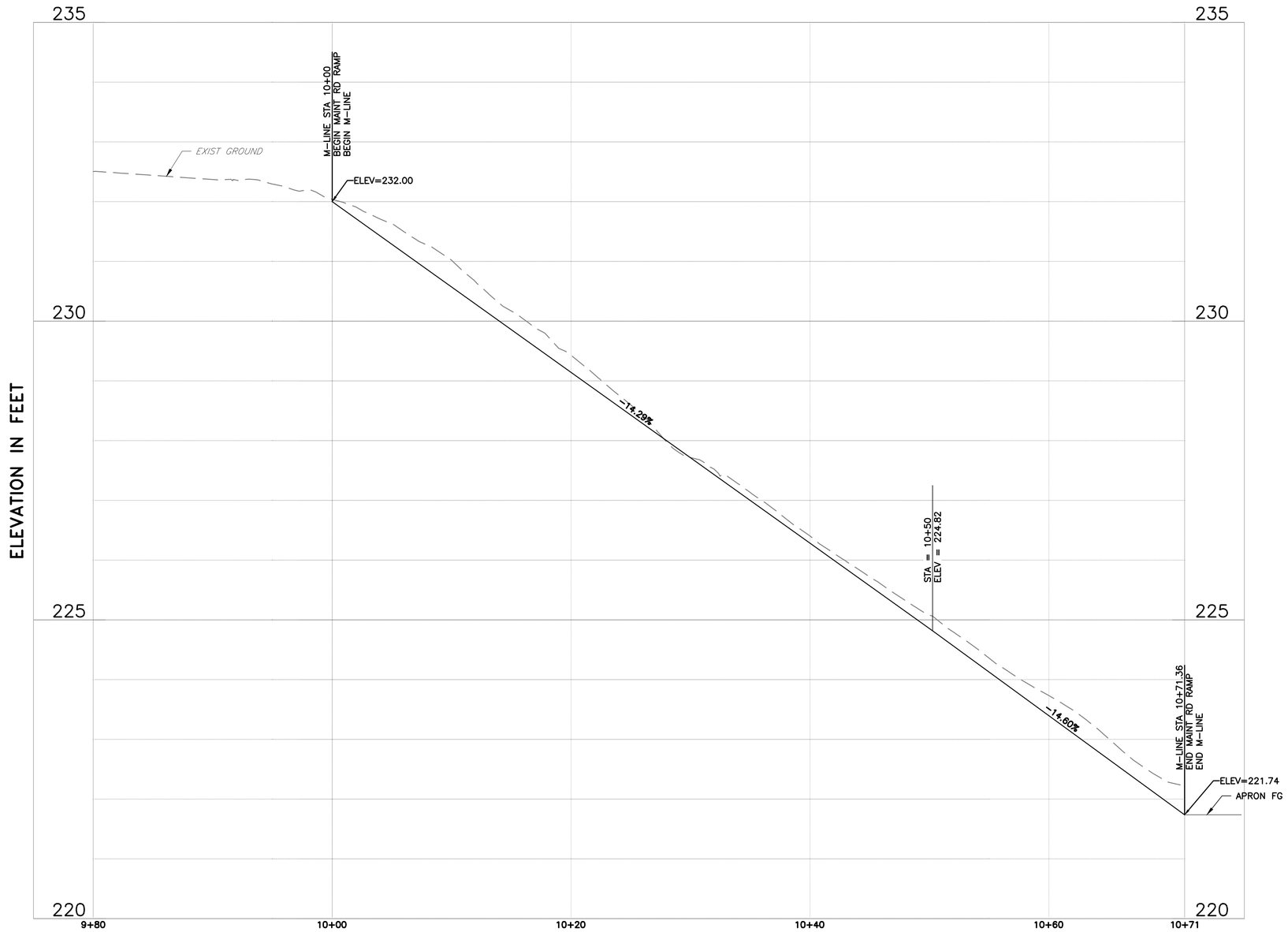


1 / C-01 M-LINE MAINTENANCE ROAD RAMP PROFILE

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

DOCUMENT NUMBER: COO-C-9248-75868

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

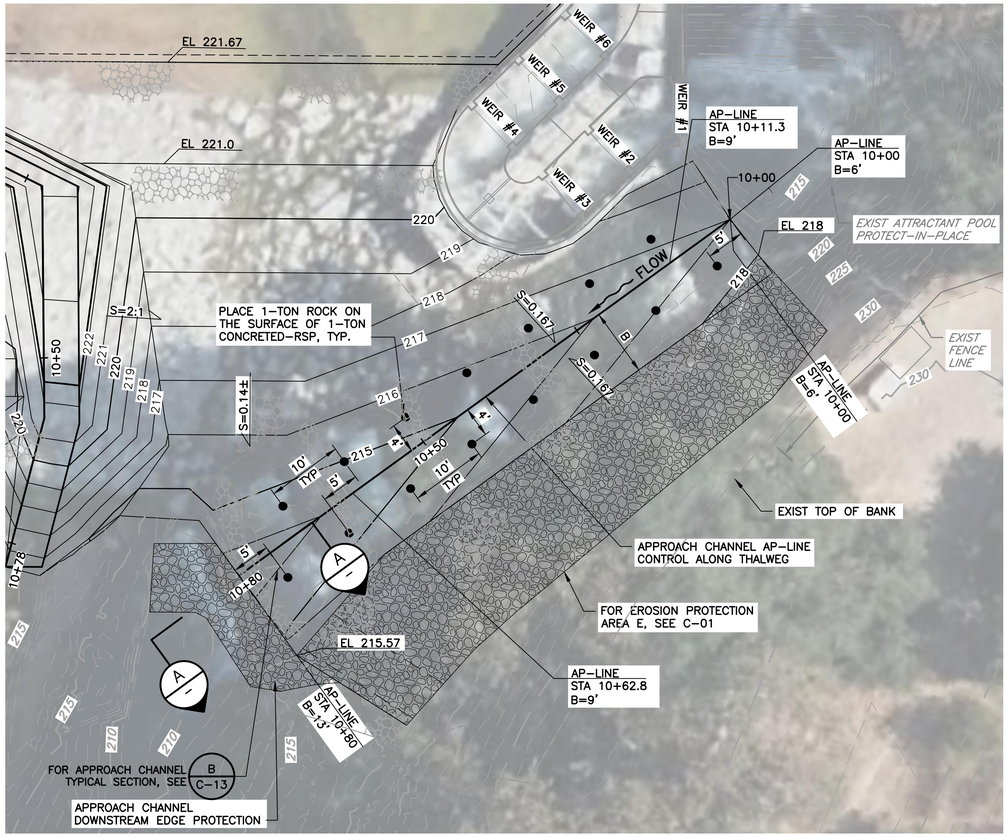
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — YOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

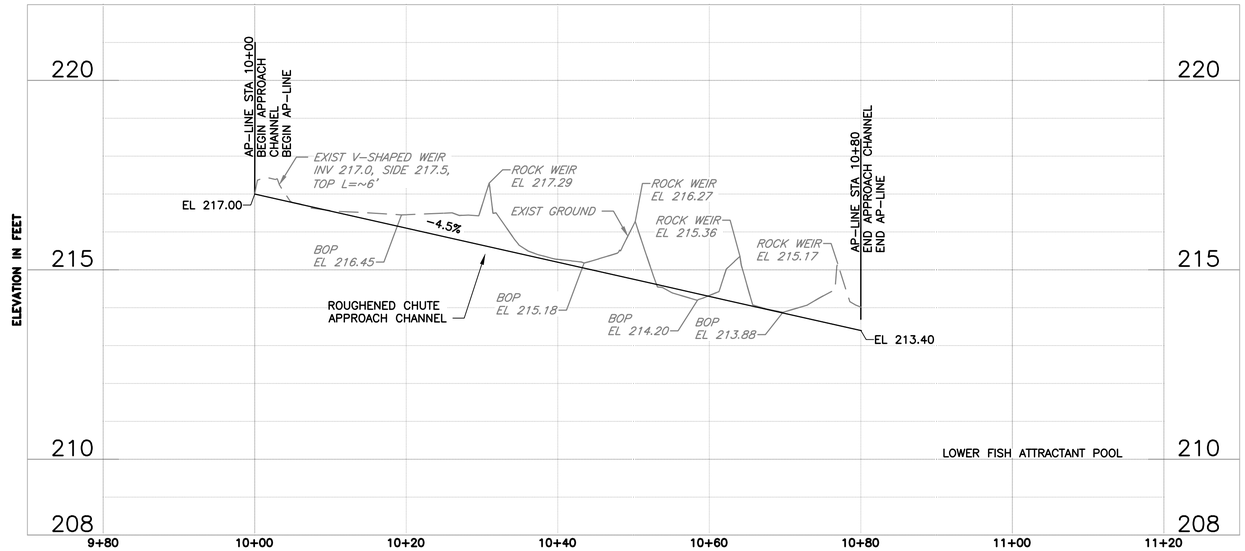
PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
MAINTENANCE ROAD RAMP PROFILE M-LINE STA 10+00 TO 10+71

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-10
SHEET NUMBER: 26



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

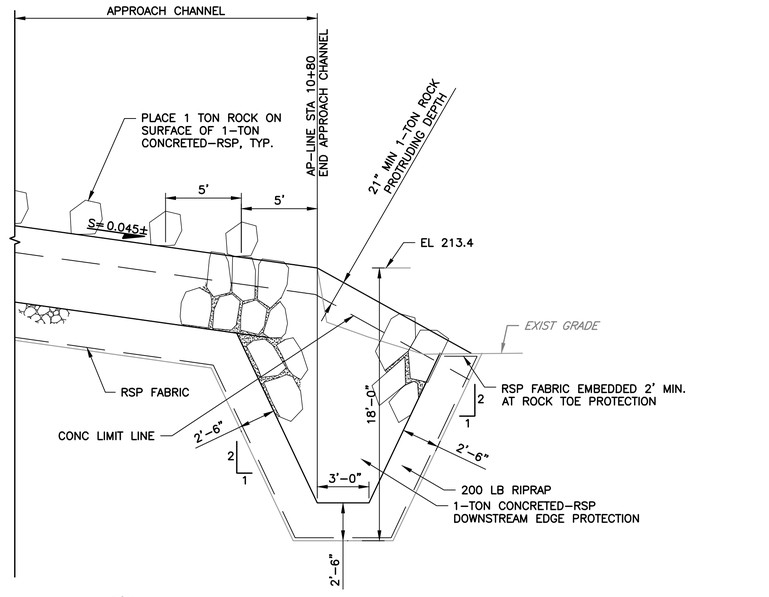


APPROACH CHANNEL (AP-LINE) PROFILE

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
APPROACH CHANNEL PLAN, SECTIONS AND PROFILE STA 10+00 TO STA 10+80

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-11
SHEET NUMBER: 27

DOCUMENT NUMBER: COO-C-9248-75869

USERNAME: OscaReyn 1/12/2023 4:47 PM
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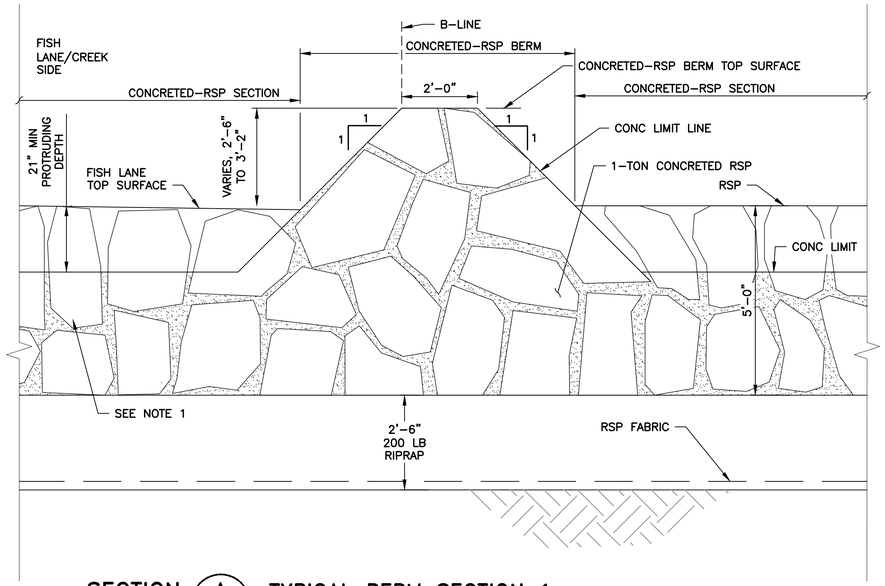
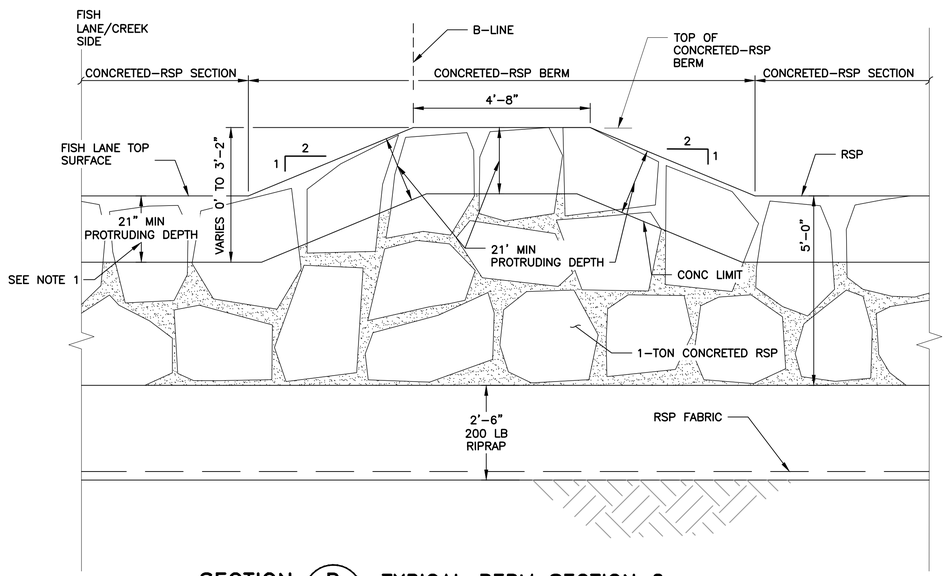
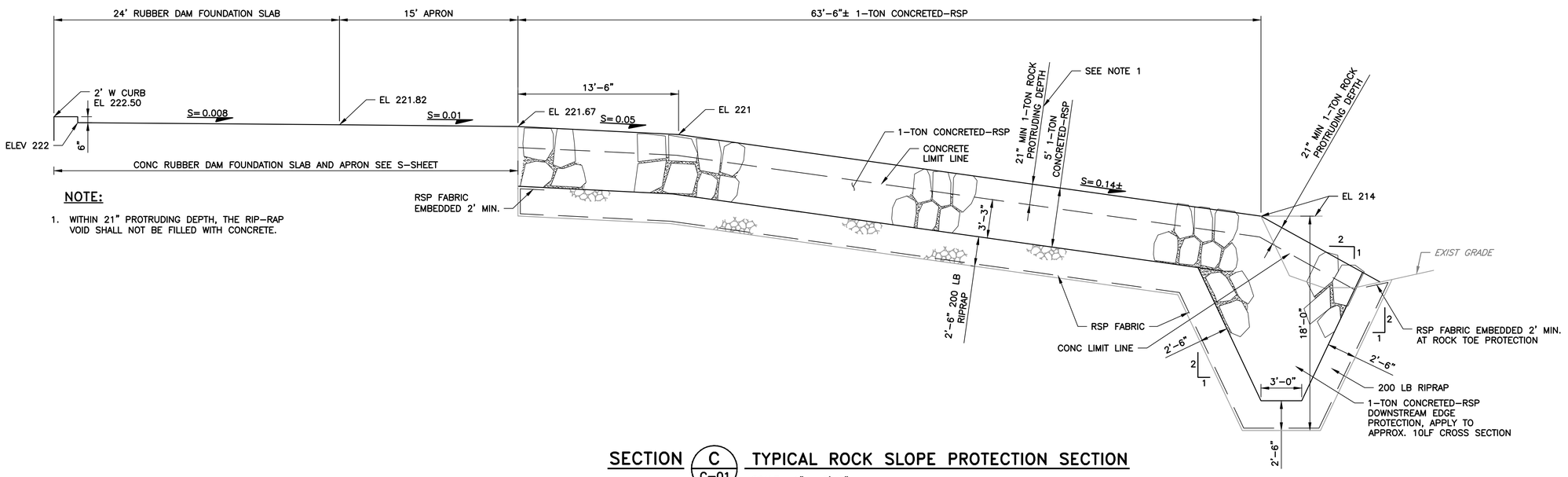


SECTION A / C-07 TYPICAL BERM SECTION 1
B–LINE STA 9+98 TO 10+27
SCALE: 1" = 2'–0"



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



NOTE:

1. WITHIN 21" PROTRUDING DEPTH, THE RIP–RAP VOID SHALL NOT BE FILLED WITH CONCRETE.

SECTION C / C-01 TYPICAL ROCK SLOPE PROTECTION SECTION
SCALE: 1" = 5'–0"

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: COO–C–9248–75870

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
BERM, ROCK SLOPE PROTECTION 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-12
SHEET NUMBER: 28

USERNAME: OscaReyn 1/12/2023 4:47 PM
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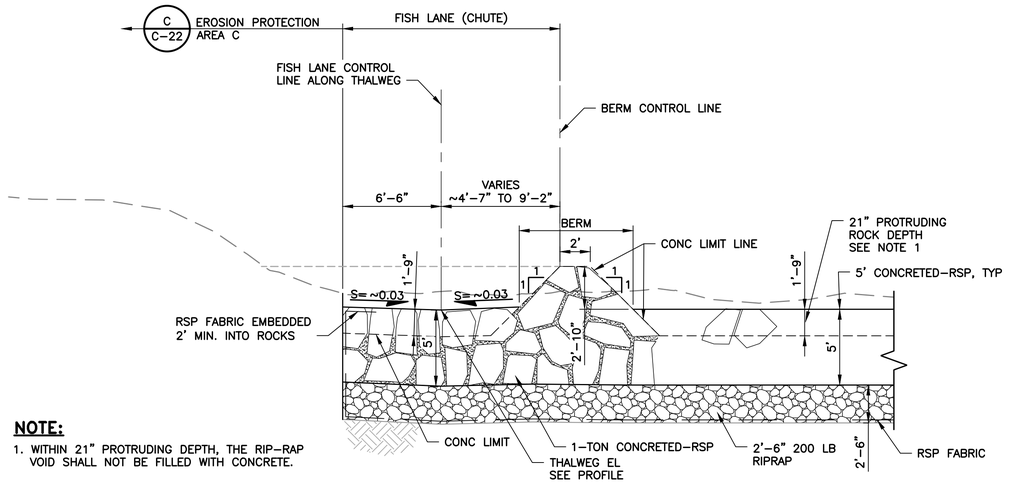
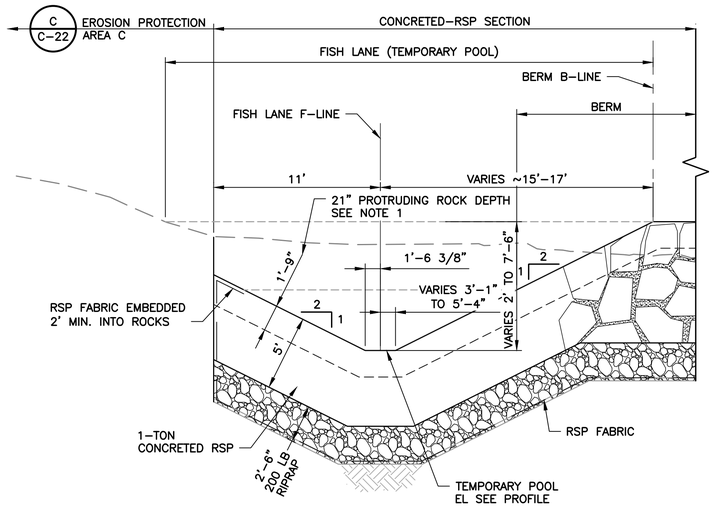


NOTE:

1. WITHIN 21" PROTRUDING DEPTH, THE RIP-RAP VOID SHALL NOT BE FILLED WITH CONCRETE.

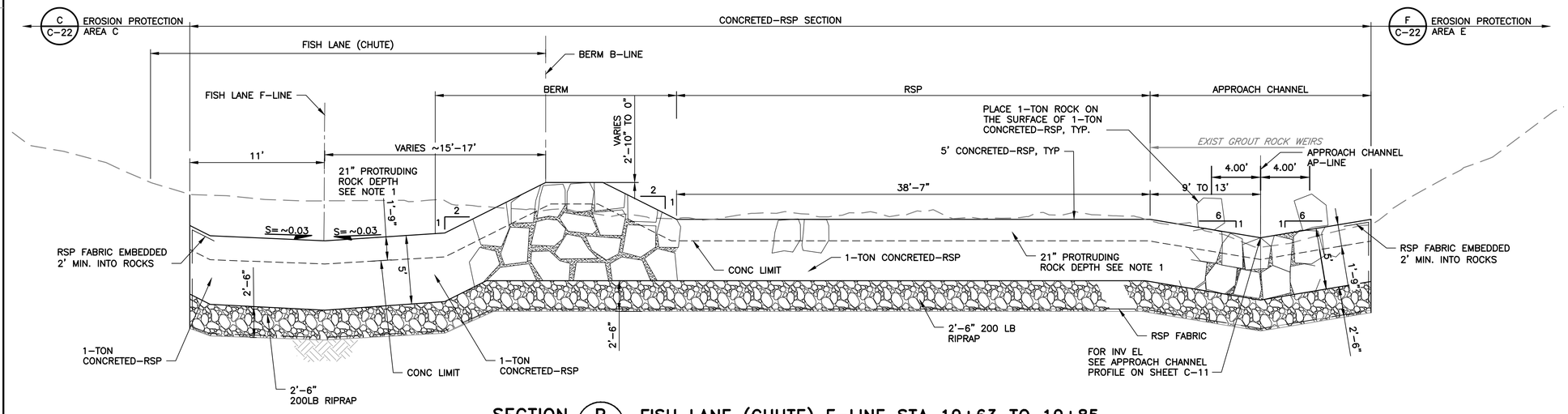
SECTION A / C-07 FISH LANE (CHUTE) F-LINE STA 10+35 TO 10+63

SCALE: 1" = 5'



SECTION C / C-01 FISH LANE (TEMPORARY POOL) F-LINE STA 10+85 TO 11+06

SCALE: 1" = 5'



SECTION B / C-01 / C-11 FISH LANE (CHUTE) F-LINE STA 10+63 TO 10+85 APPROACH CHANNEL AP-LINE STA 10+00 TO 10+80

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
DESIGN: Y. LEE
DRAWN: R. SAINI
CHECKED: K. NEUMAN

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

DOCUMENT NUMBER: COO-C-9248-75871

USERNAME: OscaReyn 1/12/2023 4:47 PM
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USERNAME: OscaReyn 1/12/2023 4:48 PM
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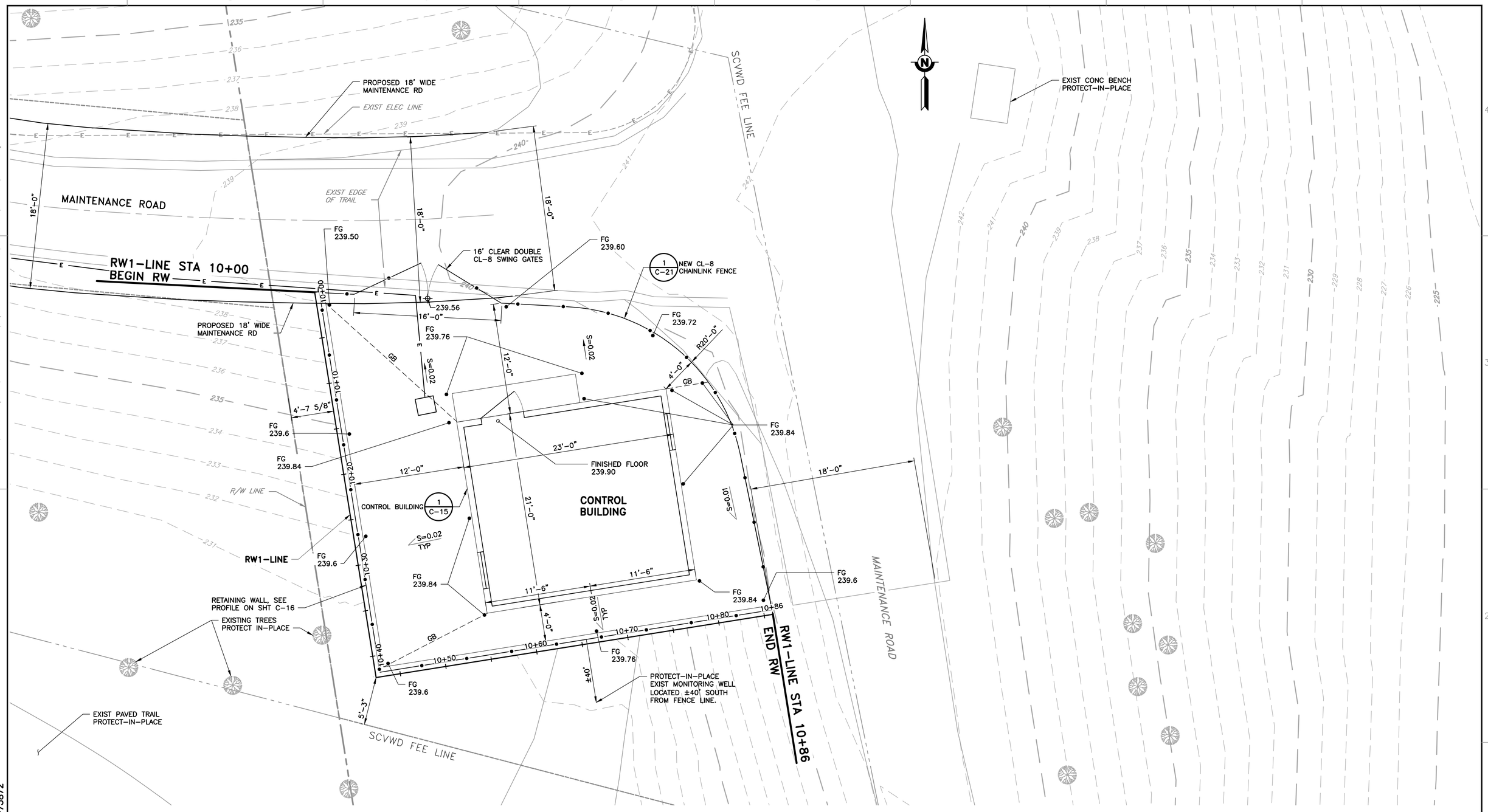


1 C-01 **PLAN**
SCALE: 1" = 5'

DOCUMENT NUMBER: COO-C-9248-75872

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

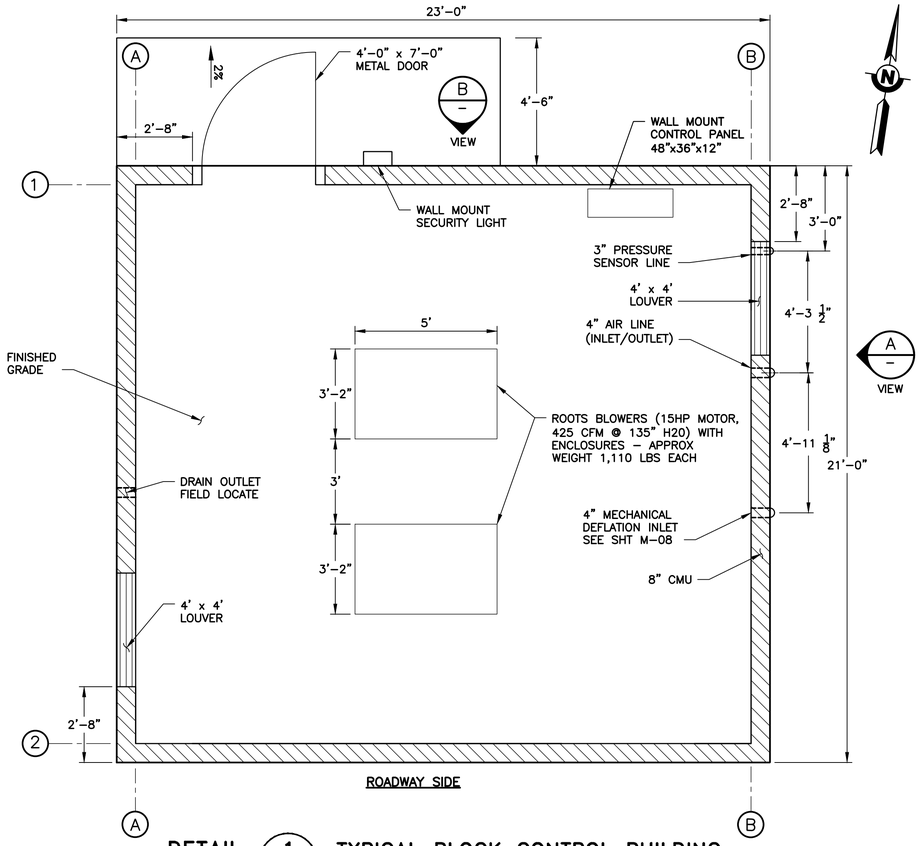
DATE	JAN 2023
DESIGN	Y. LEE
DRAWN	R. SAINI
CHECKED	K. NEUMAN

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

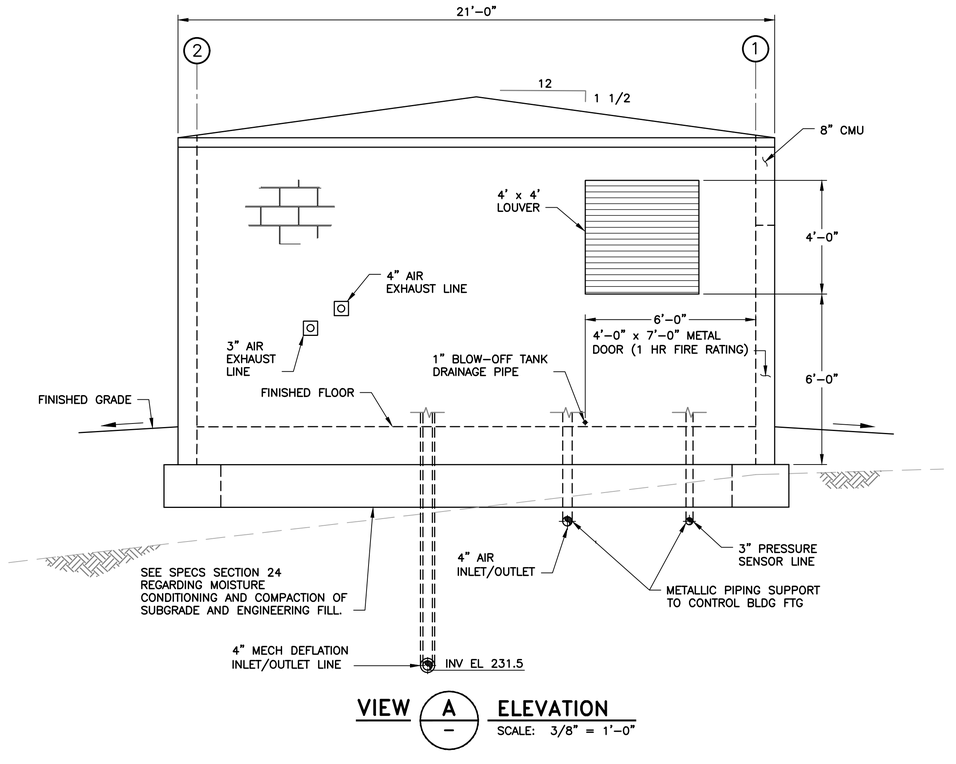
SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

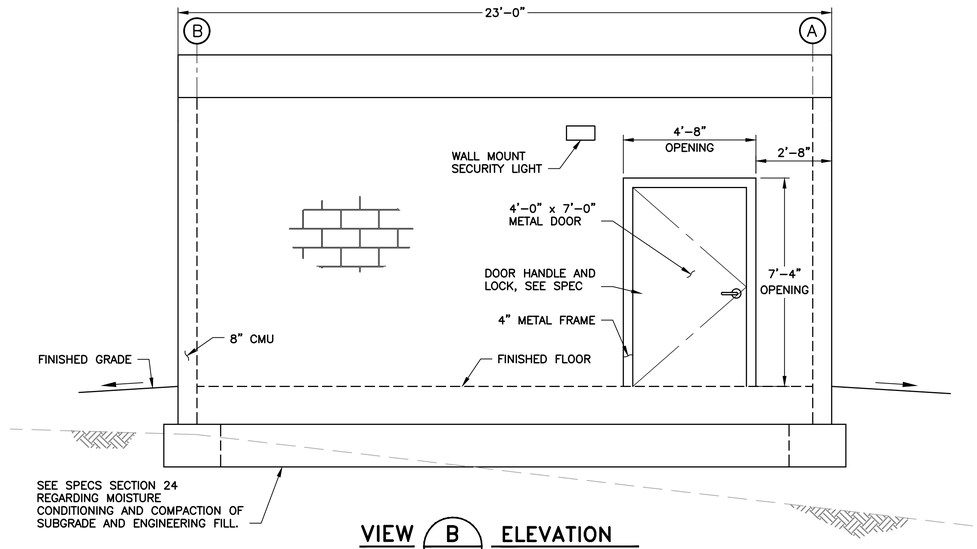
SCALE	AS SHOWN
VERIFY SCALES	0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
PROJECT NUMBER	91864009
SHEET CODE:	C-14
SHEET NUMBER:	30



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

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

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
CONTROL BUILDING 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-15
SHEET NUMBER: 31

DOCUMENT NUMBER: COO-C-9248-75873

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USERNAME: OscaReyn 1/12/2023 4:48 PM
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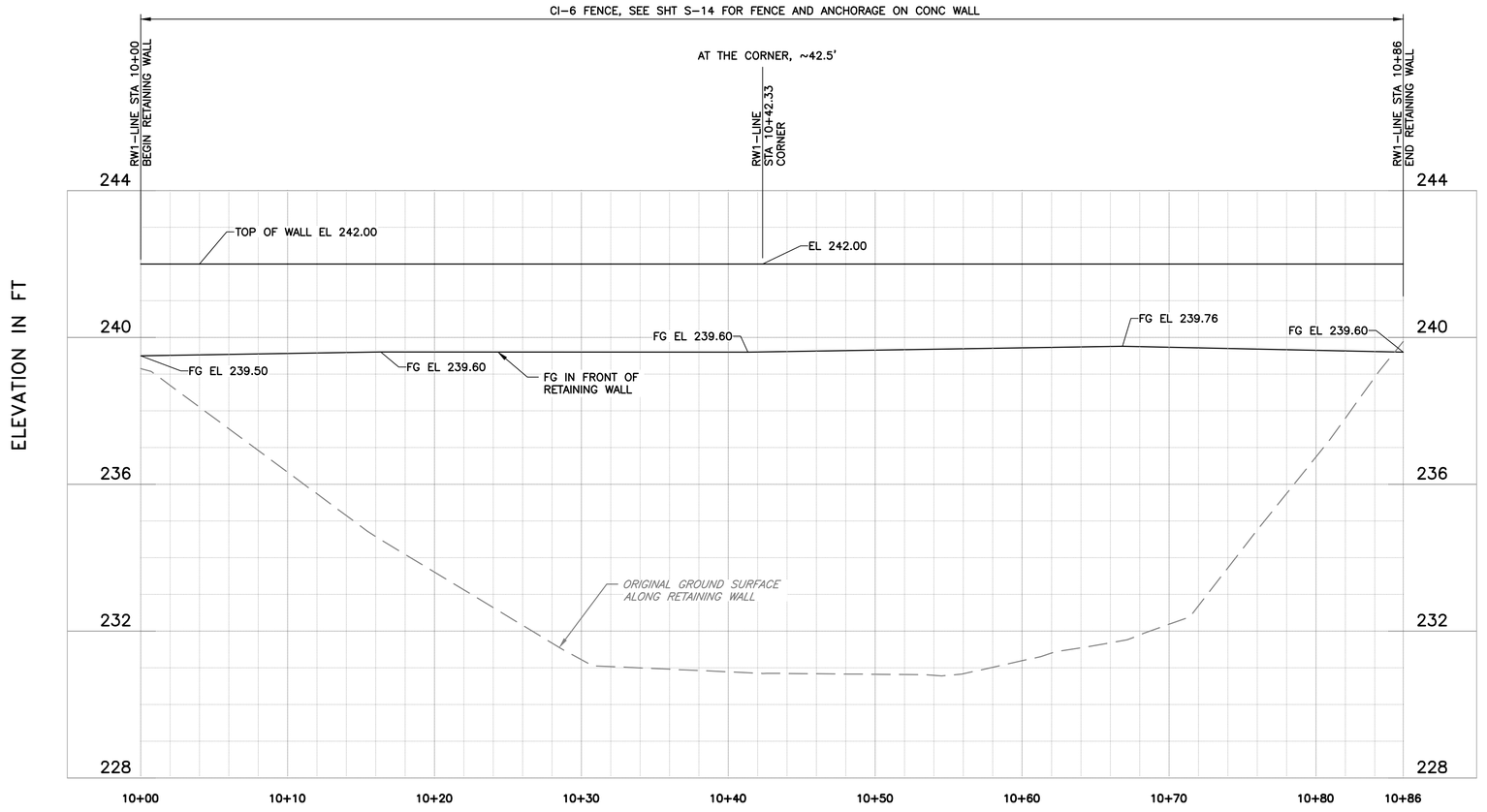

RW1-LINE PROFILE
HORIZ: 1" = 20'
VERT: 1" = 4'

DOCUMENT NUMBER: C00-C-9248-75874

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

SEE SPECS SECTION 24 REGARDING MOISTURE CONDITIONING AND COMPACTION OF SUBGRADE AND ENGINEERING FILL.

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — JOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

RETAINING WALL PROFILE STA 10+00 TO STA 10+86

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-16
SHEET NUMBER:	32

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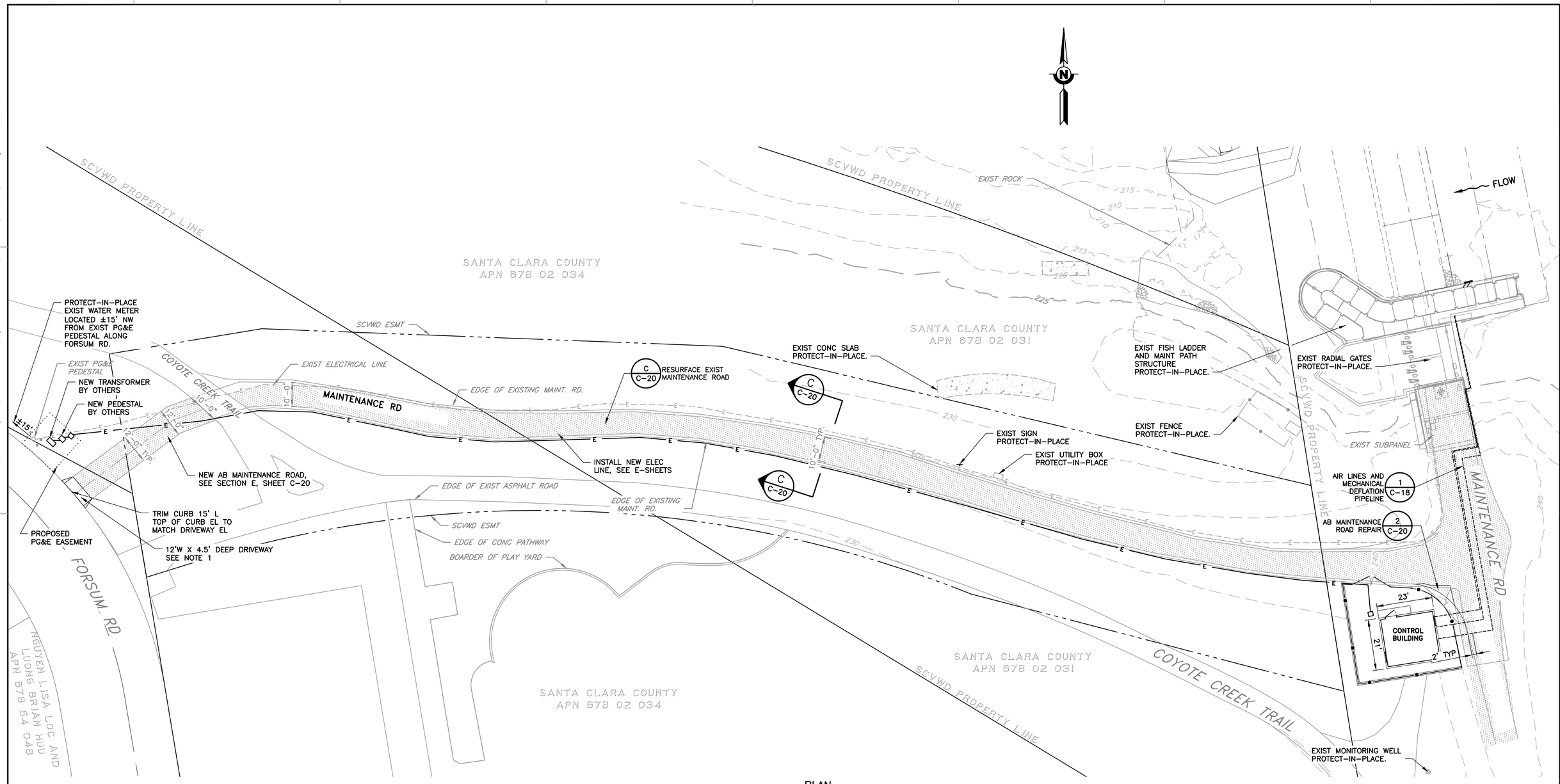


PLAN
SCALE: 1" = 20'

DOCUMENT NUMBER: COO-C-9248-75875

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.

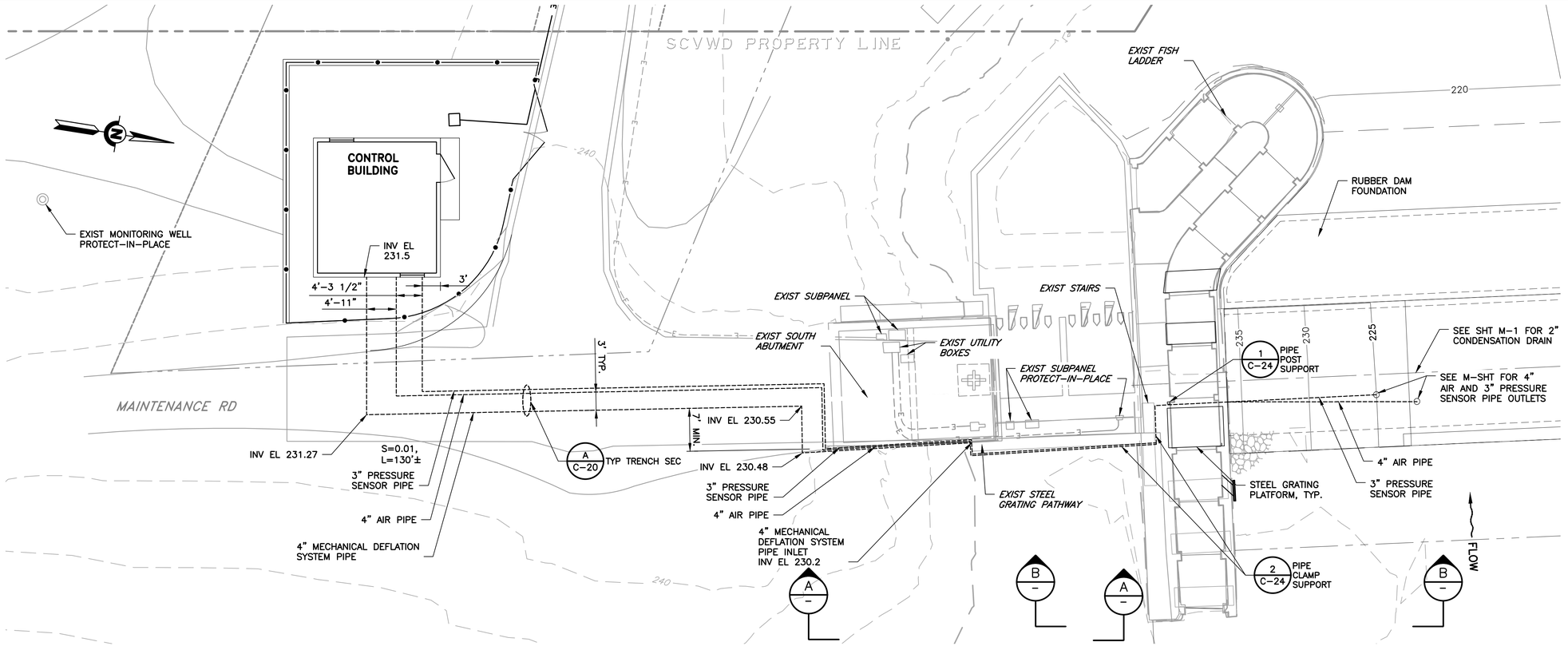
DATE	JAN 2023
DESIGN	Y. LEE
DRAWN	T. EVANS
CHECKED	K. NEUMAN

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

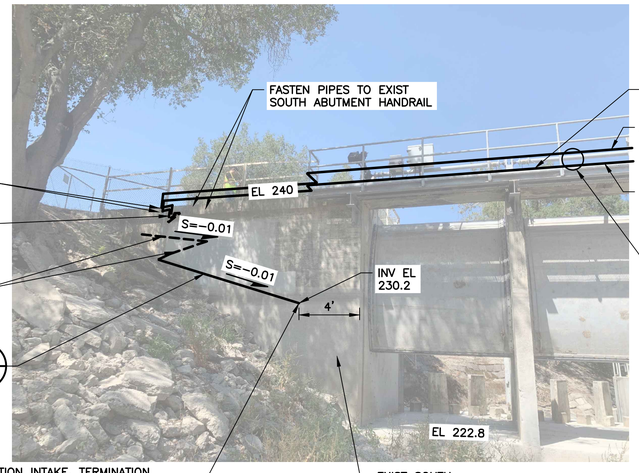
PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
UTILITY PLAN

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-17
SHEET NUMBER:	33



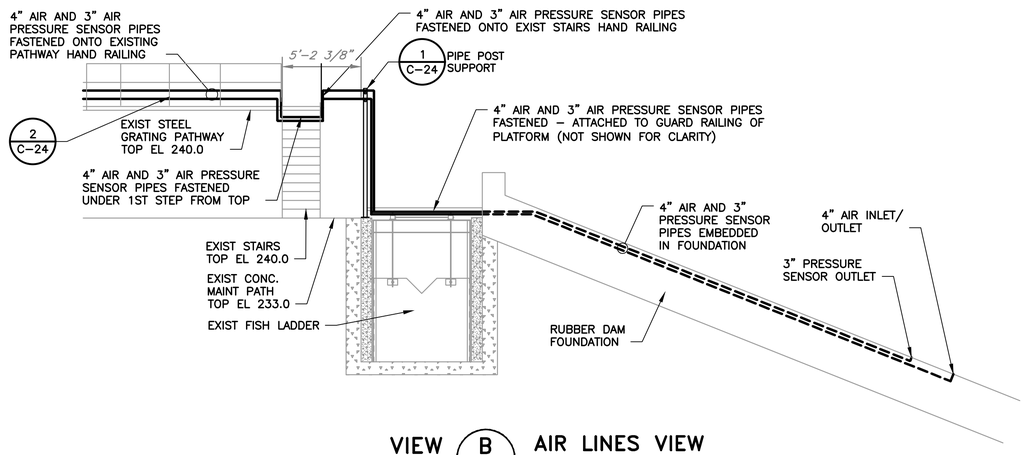
DETAIL 1 C-17 AIR LINES AND MECHANICAL DEFLATION PIPE LINE

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: JAN 2023
DESIGN: Y. LEE
DRAWN: T. EVANS
CHECKED: K. NEUMAN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER – YOUHAN LEE – No. C42456 – CIVIL – STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

UTILITY PLAN AND 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-18

SHEET NUMBER: 34

DOCUMENT NUMBER: COO-C-9248-75876

USERNAME: Zafakhan 1/12/2023 4:49 PM
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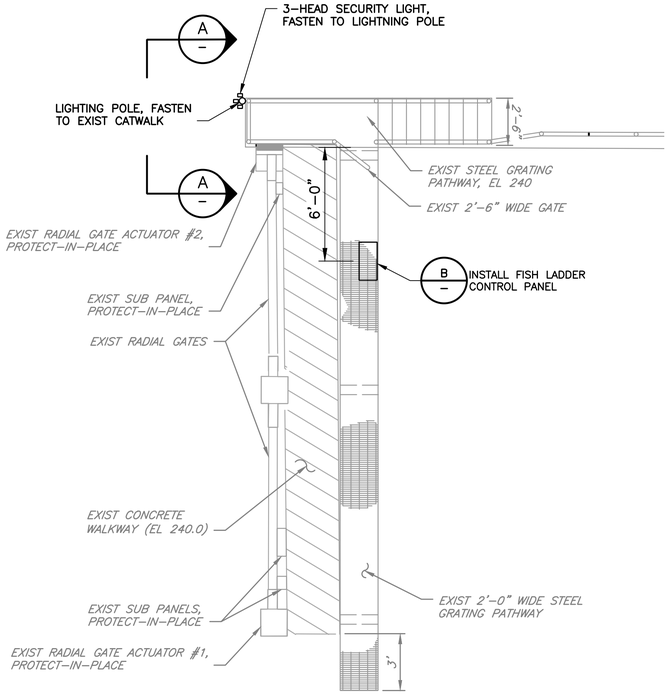
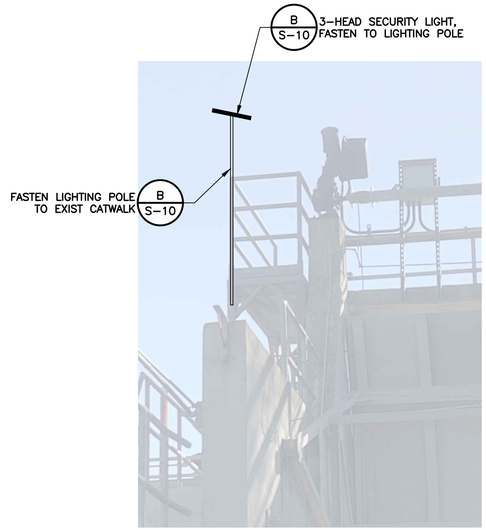
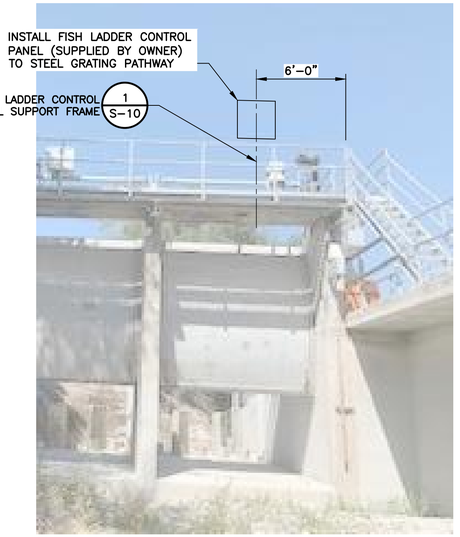


DETAIL 1/C-01 PLAN
SCALE: 1" = 4'



SECTION A/– LIGHTING POLE
SCALE: NTS



SECTION B/– FISH LADDER CONTROL PANEL
SCALE: NTS

DOCUMENT NUMBER: COO–C–9248–75877

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

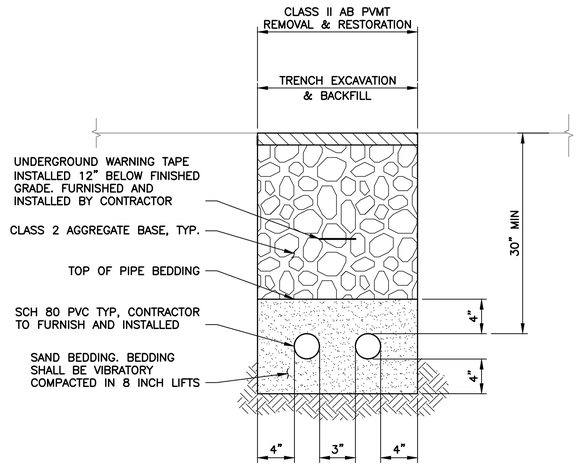
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER JOUHAN LEE No. C42456 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

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

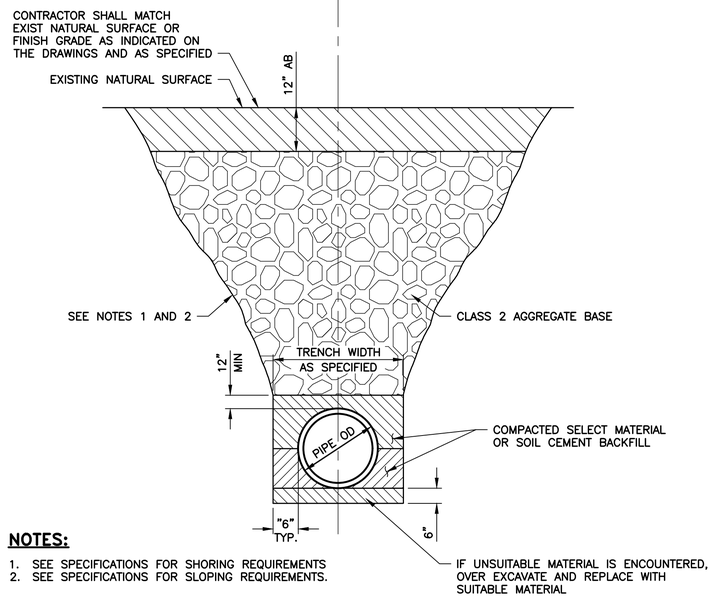
SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 91864009
SHEET CODE: C-19
SHEET NUMBER: 35



PRESSURE SENSOR PIPE AND AIR PIPE

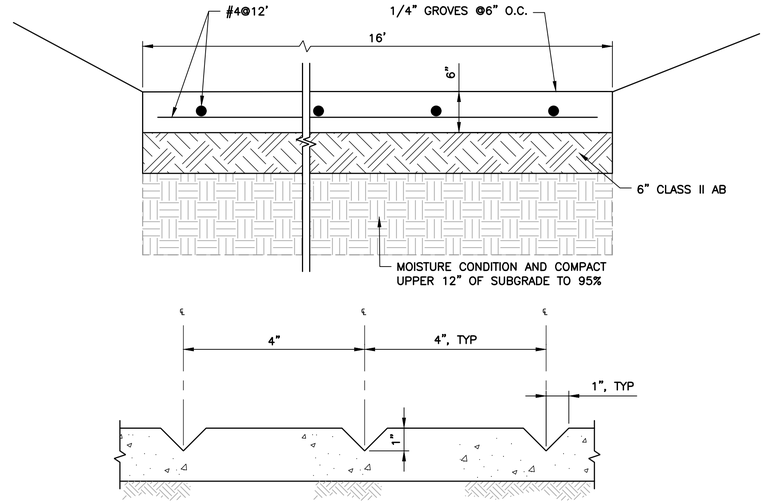
NOTE: MINIMUM 1-FOOT VERTICAL CLEARANCE SHALL BE REQUIRED FROM ANY UTILITY.



NOTES:

1. SEE SPECIFICATIONS FOR SHORING REQUIREMENTS
2. SEE SPECIFICATIONS FOR SLOPING REQUIREMENTS.

MECHANICAL DEFLATION SYSTEM PIPE



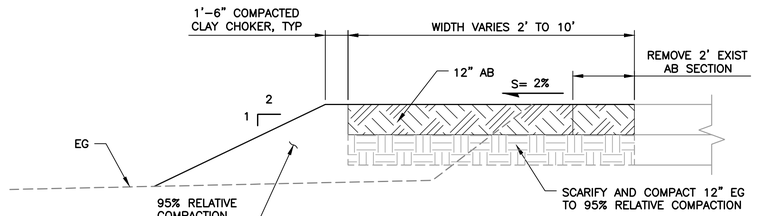
GROOVE DETAIL

DETAIL 1 / C-01 TYPICAL CONC MAINT RAMP

SCALE: NTS

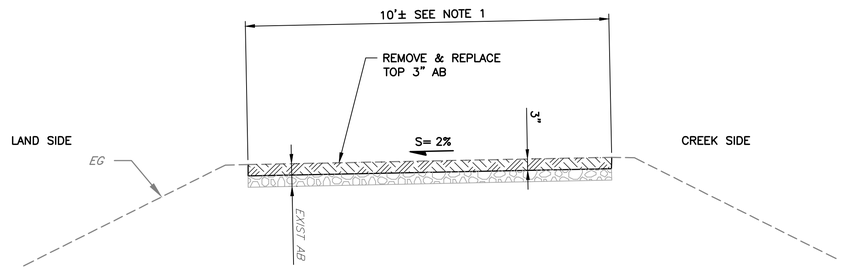
SECTION A / C-18 TYPICAL TRENCH SECTION

SCALE: NTS



DETAIL 2 / C-17 AB MAINTENANCE ROAD REPAIR

SCALE: NTS

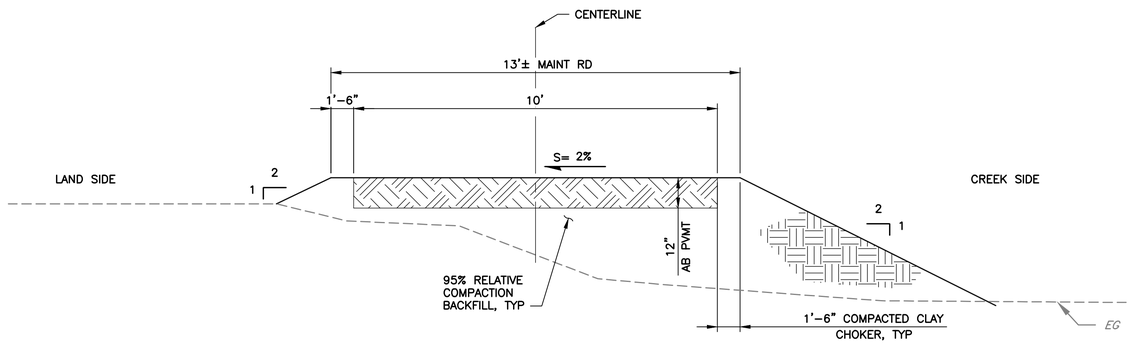


NOTE:

1. AT MAINTENANCE ROAD INTERSECTION, THE WIDTH VARIES FROM 8 FT. TO 40 FT.

SECTION C / C-17 EXISTING AB RESURFACING TYPICAL

SCALE: NTS



SECTION E / C-17 NEW AB MAINTENANCE ROAD

SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
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-20
SHEET NUMBER: 36

DOCUMENT NUMBER: COO-C-9248-75878

USERNAME: OscaReyn 1/12/2023 4:49 PM
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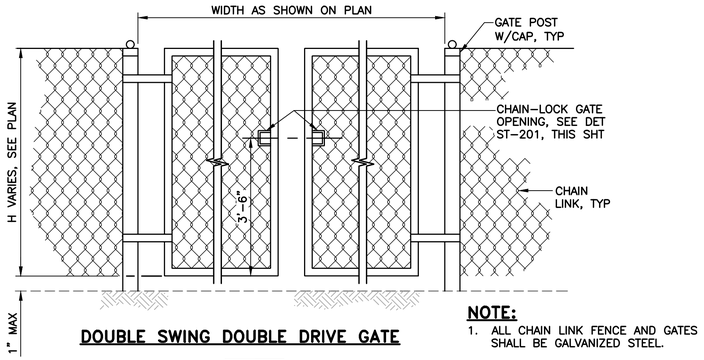
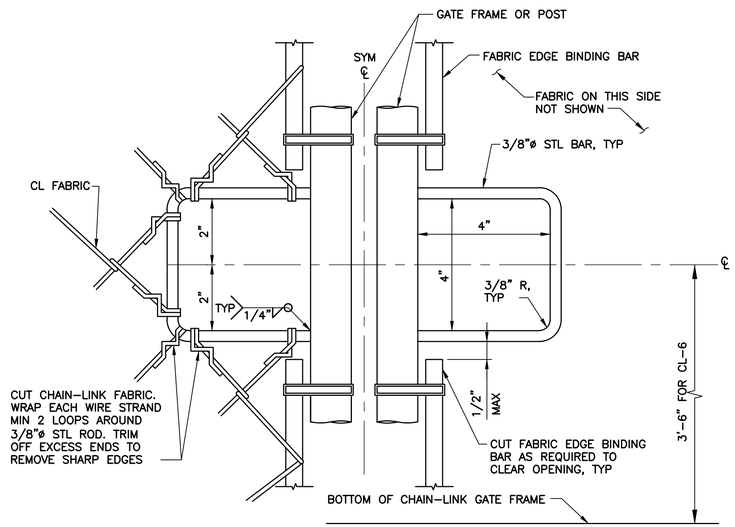
USERNAME: Tungtran 1/12/2023 4:50 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\C-21.dwg



DOUBLE SWING DOUBLE DRIVE GATE

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

ST-200 TYP **CHAIN LINK GATE**
SCALE: NTS



ST-201 TYP **CHAIN-LOCK GATE OPENING**
SCALE: NTS

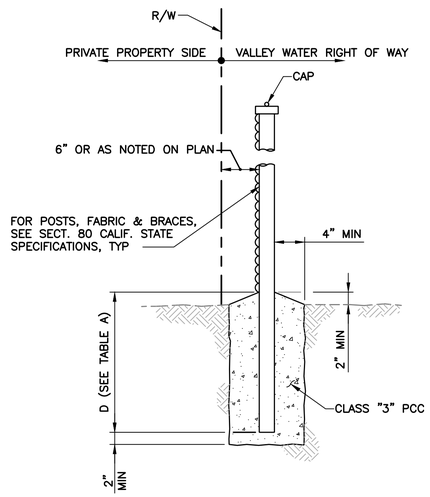
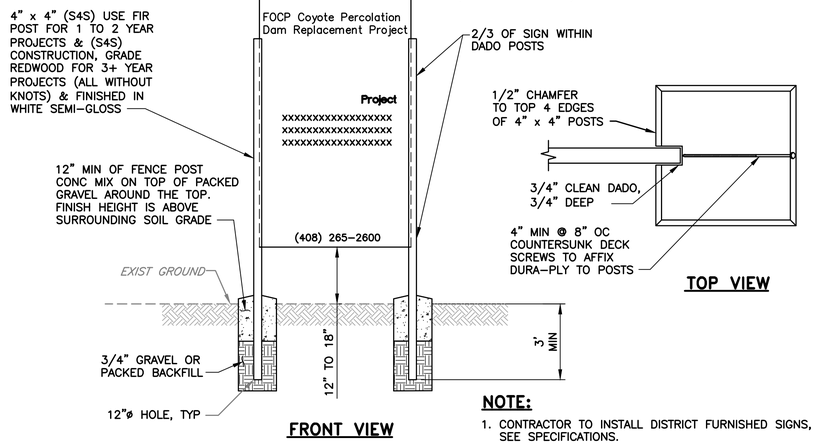


TABLE A		
FENCE	H	D
CL-8	8'	2.75'

DETAIL 1 / C-14 FENCE POST IN GROUND
SCALE: NTS



TOP VIEW

FRONT VIEW

NOTE:
1. CONTRACTOR TO INSTALL DISTRICT FURNISHED SIGNS, SEE SPECIFICATIONS.

DETAIL 2 / G-02 PROJECT SIGN
SCALE: NTS

DOCUMENT NUMBER: COO-C-9248-75879

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.

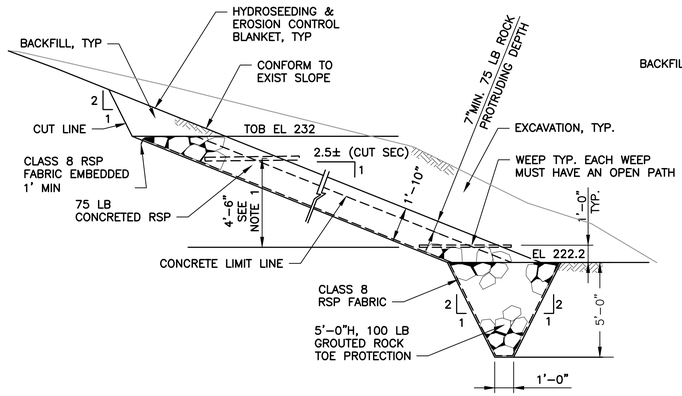
DATE: JAN 2023
DESIGN: Y. LEE
DRAWN: R. SAINI
CHECKED: K. NEUMAN

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

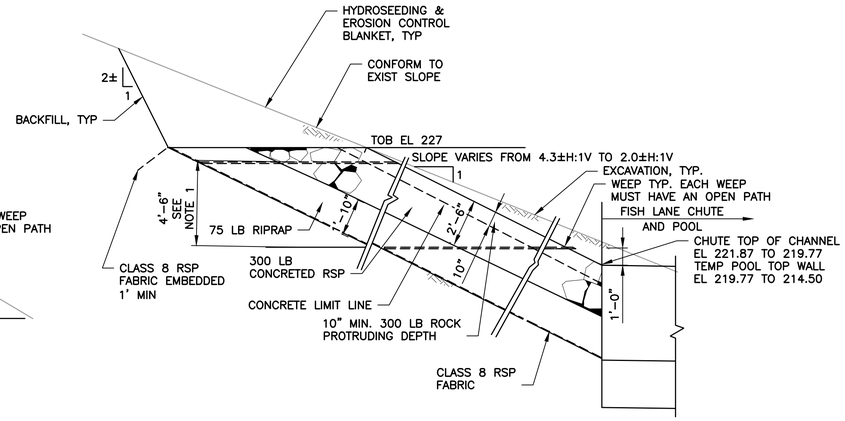
SCALE: AS SHOWN
VERIFY SCALES: 0 1" — BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
PROJECT NUMBER: 91864009
SHEET CODE: C-21
SHEET NUMBER: 37



TYPICAL SECTION A C-01 AREA A

SCALE: 1" = 4'-0"

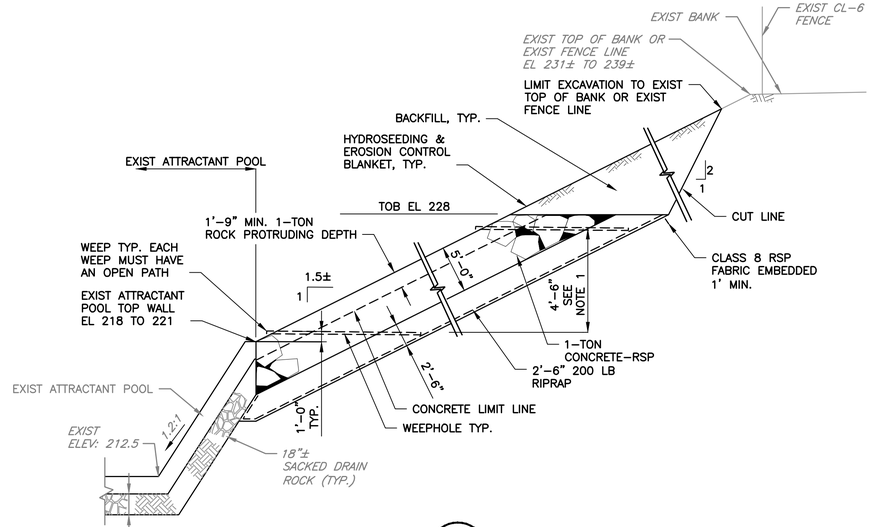
D-01



TYPICAL SECTION C C-01 AREA C

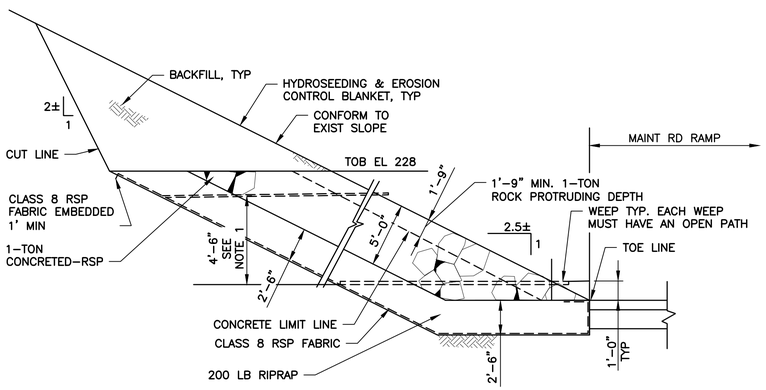
SCALE: N.T.S.

C-13



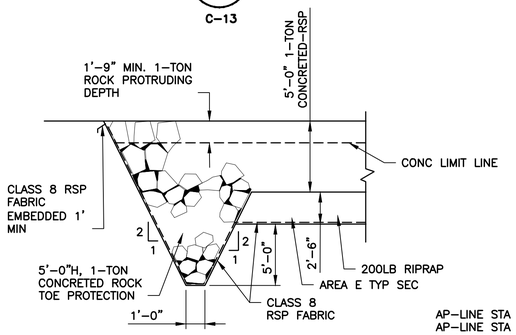
TYPICAL SECTION E C-01 AREA D

SCALE: N.T.S.



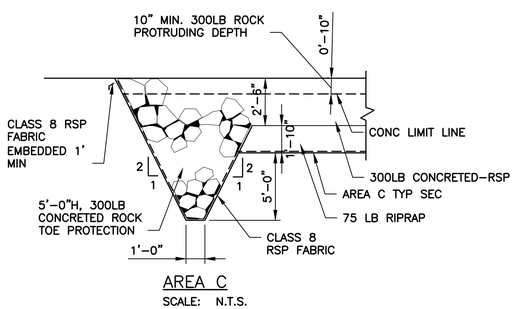
TYPICAL SECTION B C-01 AREA B

SCALE: N.T.S.



AREA E

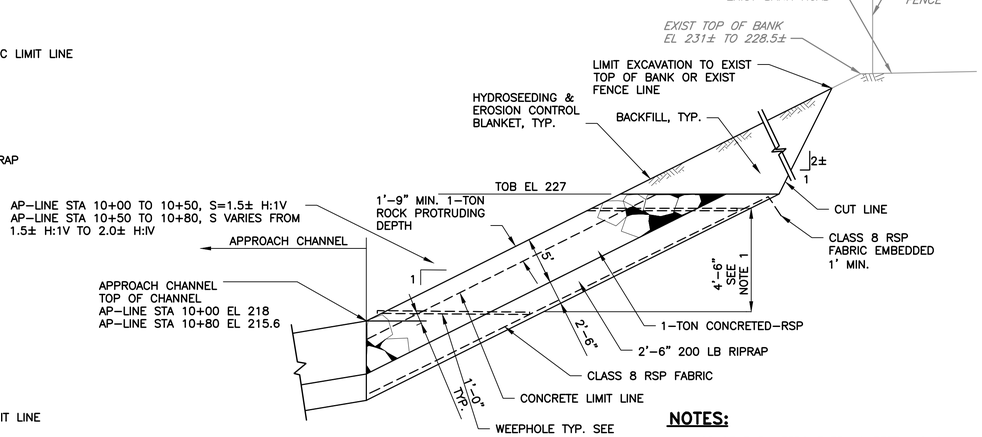
SCALE: 1"= 8'-0"



AREA C

SCALE: N.T.S.

TYPICAL SECTION D C-01 DOWNSTREAM EDGE PROTECTION



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.

TYPICAL SECTION F C-01 AREA E

SCALE: N.T.S.

C-13

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — JOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

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

DOCUMENT NUMBER: COO-C-9248-75880

USERNAME: OscaReyn 1/12/2023 4:50 PM
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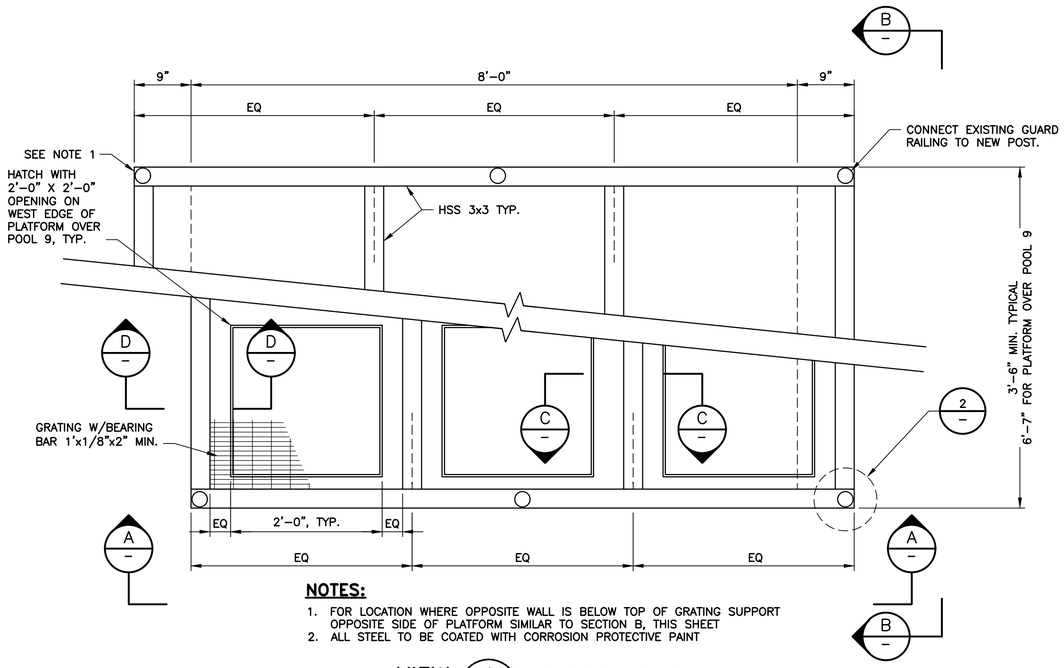
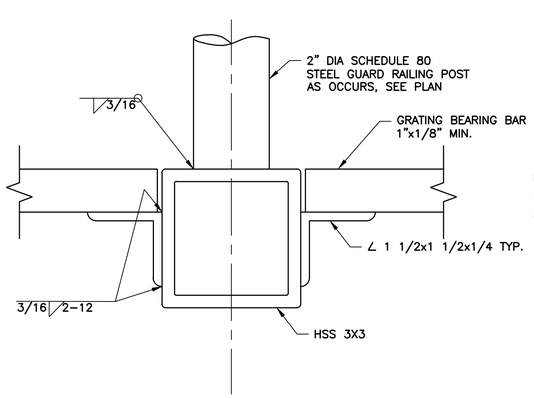


NOTES:

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

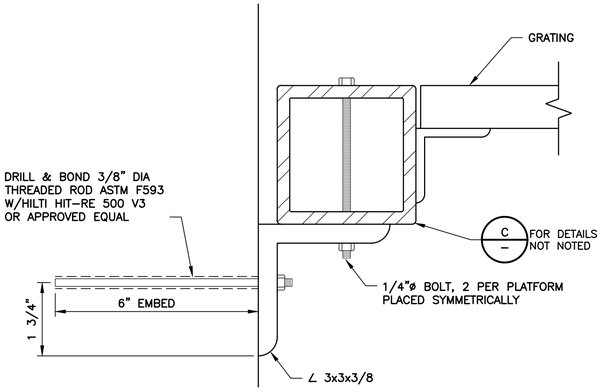
VIEW 1 / C-04 PARTIAL PLAN

SCALE: NTS



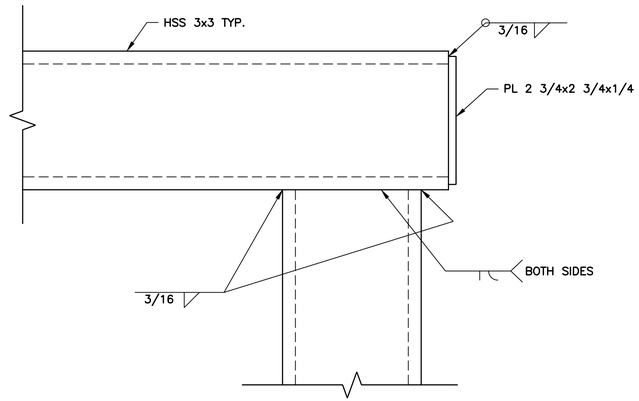
SECTION C / - TYPICAL GRATING SUPPORT

SCALE: NTS



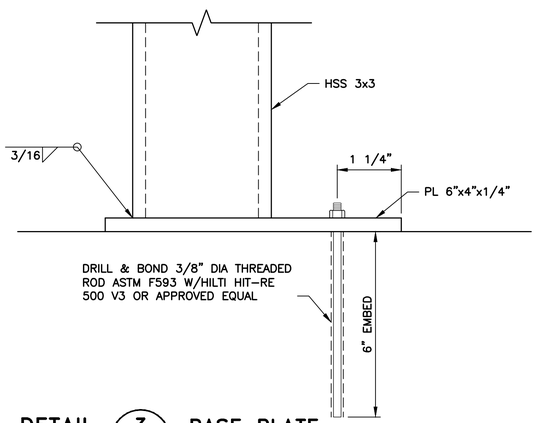
SECTION D / - WALL SUPPORT

SCALE: NTS



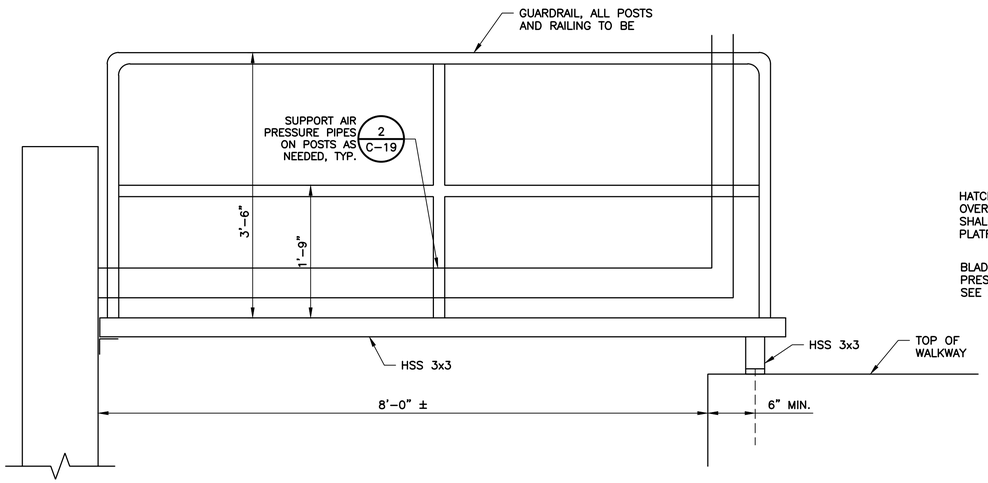
DETAIL 2 / - TYPICAL HSS CONNECTION

SCALE: NTS



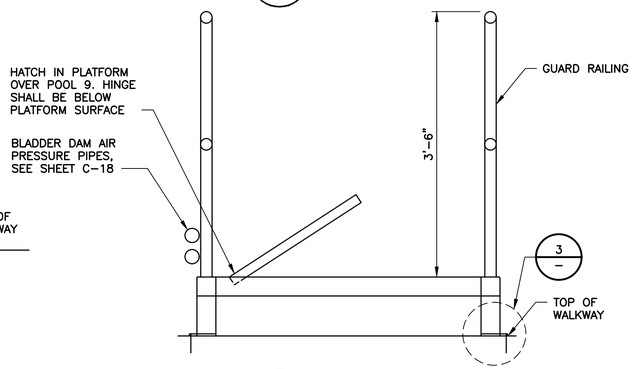
DETAIL 3 / - BASE PLATE

SCALE: NTS



SECTION A / - TYPICAL GUARDRAIL SUPPORT

SCALE: NTS



SECTION B / - TYPICAL GUARDRAIL SUPPORT

SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: C00-C-9248-75881

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
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-23
SHEET NUMBER: 39

USERNAME: OscaReyn 1/12/2023 4:50 PM
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USERNAME: OscaReyn 1/12/2023 4:50 PM
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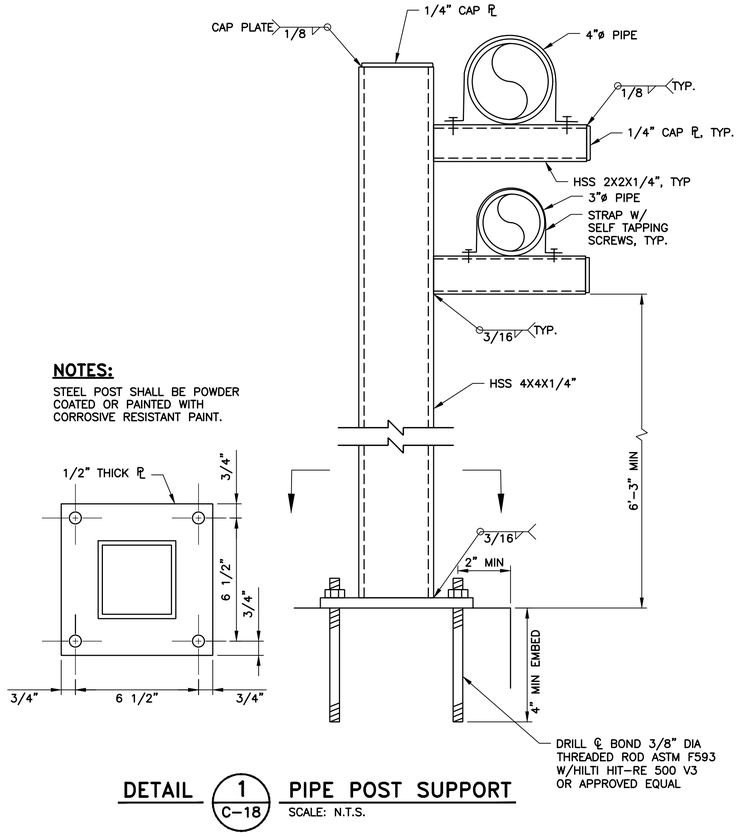
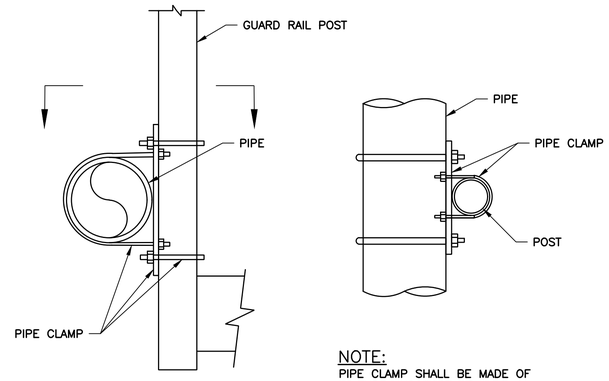


NOTES:

STEEL POST SHALL BE POWDER COATED OR PAINTED WITH CORROSIVE RESISTANT PAINT.

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



NOTE:
PIPE CLAMP SHALL BE MADE OF TO PIPE AND POST OR USE CATHODIC PROTECTIVE MATERIAL TO PREVENT CORROSION.

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

DOCUMENT NUMBER: COO-C-9248-75882

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

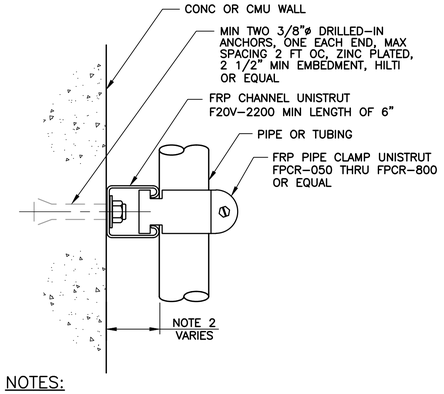
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — YOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

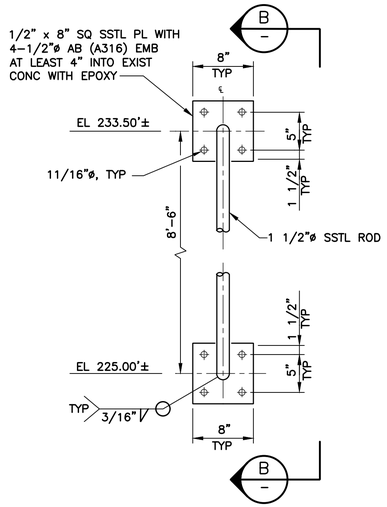
PROJECT NUMBER: 91864009
SHEET CODE: C-24
SHEET NUMBER: 40

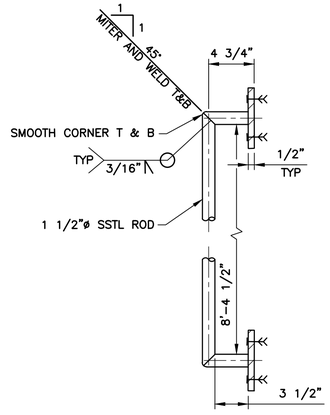


NOTES:

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.

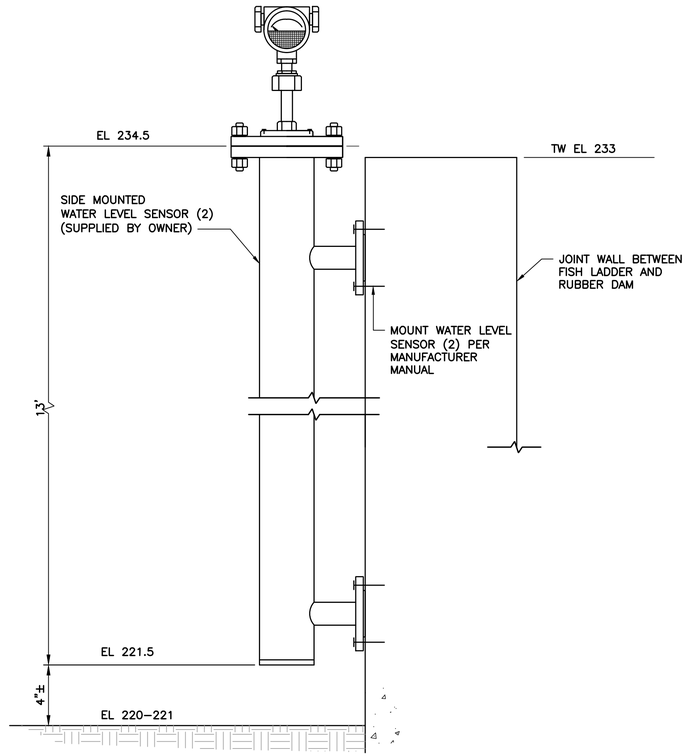
DETAIL 1 / C-18 — TYPICAL METALLIC PIPING SUPPORT
SCALE: NTS





SECTION B–B

DETAIL 2 / C-04 — BOOM FASTENING
SCALE: NTS



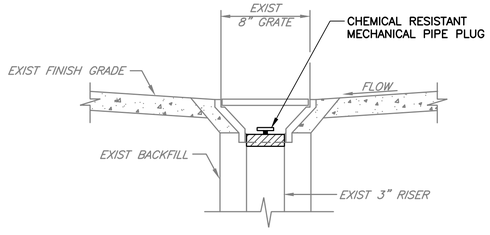
DETAIL 3 / C-04 — WATER LEVEL SENSOR INSTALLATION
N.T.S.

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"

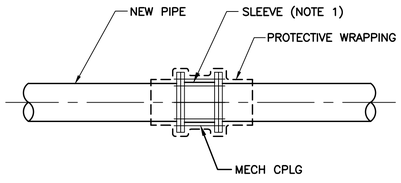
DETAIL 4 / M-9 — ADJUSTABLE PIPE SUPPORT
NTS



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

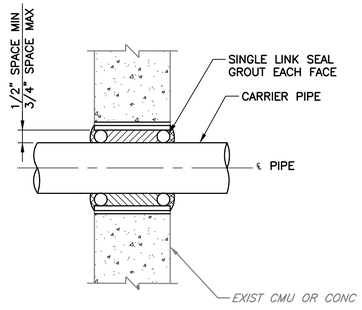
DETAIL 5 / – — TYPICAL FLOOR DRAIN AND FLOOR SINK PLUG
SCALE: NTS



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
DESIGN: Y. LEE
DRAWN: Z. KHAN
CHECKED: K. NEUMAN

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

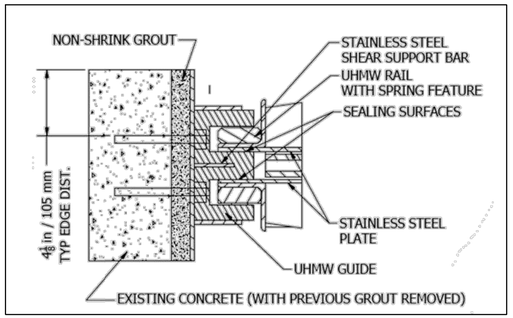
PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
DETAILS

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-25
SHEET NUMBER: 41

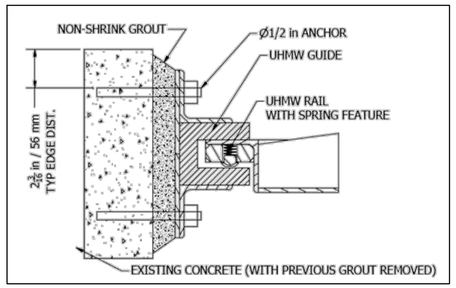
DOCUMENT NUMBER: COO-C-9248-75883

USERNAME: Zafakhan 1/12/2023 4:50 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\C-25.dwg



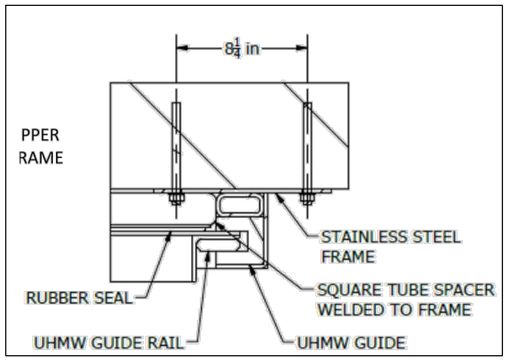
SECTION A / C-06

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — YOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

ANCHORAGE 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-26

SHEET NUMBER: 42

DOCUMENT NUMBER: COO-C-9248-75884

USERNAME: Zafakhan 1/12/2023 4:50 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\C-26.dwg

RETAINING WALLS AND RUBBER DAM FOUNDATION STRUCTURAL NOTES:

1. CONTRACTOR MUST VERIFY ALL FIELD DIMENSIONS AND EXISTING FIELD CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. CONTRACTOR MUST BE SOLELY RESPONSIBLE FOR COMPLYING WITH CURRENT FEDERAL, STATE AND LOCAL SAFETY AND HEALTH STANDARDS AND ORDINANCES.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. CONSTRUCTION OPERATIONS MUST BE CONDUCTED IN SUCH A MANNER AS TO CAUSE LITTLE INCONVENIENCE AS POSSIBLE TO THE PUBLIC.
11. THE CONTRACTOR MUST INSTALL TEMPORARY FENCES AND WARNING SIGNS OR DEVICES AS SHOWN ON THE DRAWINGS AS NECESSARY.
12. THE CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS AT THE STATE WATER RESOURCES CONTROL BOARDS FOR STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES.
13. ALL STEEL IMBEDS, ANCHORS, AND FASTENERS MUST BE STAINLESS STEEL, UNLESS NOTED OTHERWISE.
14. 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.
15. FOOTINGS TO BE POURED NEATLY ONTO EXISTING UNDISTURBED SOIL UNLESS NOTED OTHERWISE ON PLANS.
16. CONTRACTOR MUST COORDINATE ANY INSPECTIONS AND TESTING WITH THE SCVWD CERTIFIED INSPECTOR.
17. CONTRACTOR MUST SUBMIT MANUFACTURER'S PRODUCT INFORMATION FOR BONDING MATERIAL FOR REVIEW BY THE SCVWD FOR ANY "DRILL AND BOND" DOWELS.
18. 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: (WALL TYPE A AND B)	200 PSF
BUILDING SURCHARGE: (WALL TYPE C AND D)	30 PSF BEGINNING 2 FT BELOW THE TOP OF WALL AND INCREASING LINEARLY TO 300 PSF 6 FT BELOW THE TOP OF WALL. 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:

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

CONCRETE REINFORCING:

1. 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.
2. 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.
3. 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

USERNAME: OscaReyn Thu 12 Jan 2023 04:51pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\S-01

DOCUMENT NUMBER: COO-S-9248-75885

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
REGISTERED PROFESSIONAL ENGINEER — RAVISH M. RAVAL — 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
RETAINING WALLS AND DAM FOUNDATION STRUCTURAL 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: S-01
SHEET NUMBER: 43

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

COYOTE CREEK

FLOW

LINE A

A LINE

LINE B

WEAKENED PLANE JOINT @ 17'-6" SEE DETAIL 1 SHT S-13

WEAKENED PLANE JOINT 4 EQUAL SPACES SEE DETAIL 1 SHT S-13

WEAKENED PLANE JOINT @ 15'-6" SEE DETAIL 1 SHT S-13

2'-6"

AIR BLADDER DAM AND DOUBLE ANCHORING SYSTEM

DAM FOUNDATION SEE SHT S-04

EXISTING ABUTMENT TO BE REMOVED, SEE CIVIL PLANS

INTERIOR KEY, SEE SECTIONS A AND B IN SHEET S-04

5'-0" 5'-0" 5'-0" 2'-6"

EXIST CONCRETE DAM FOUNDATION

FOR BEGINNING OF SLOPED SIDEWALL SEE CIVIL PLANS

4" DIA WEEPHOLES, SEE 3/S-05

FOR BEGINNING OF SLOPED SIDEWALL SEE CIVIL PLANS

EXIST CONCRETE SLAB APRON

EXIST CONCRETE ACCESS RAMP

EXIST FISH LADDER

SEE DETAIL 1/S-09

SEE DETAIL 1/S-08

EXIST RADIAL GATES

SEE DETAIL 1/S-06

SEE DETAIL 1/S-08

SEE DETAIL 2/S-05 SIM

SCVWD INGRESS AND EGRESS EASEMENT

CONTROL BUILDING SEE SHT S-15

RETAINING WALL SEE SHT S-11

EXIST SCVWD R/W

EXIST GRAVEL TRAIL

EXIST SCVWD EASEMENT

EXIST TOE OF BANK

EXIST TOP OF BANK

COYOTE CREEK

FLOW

PLAN

SCALE: 1" = 10'

USERNAME: OscoReyn Thu 12 Jan 2023 04:51pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\S-02

DOCUMENT NUMBER: COO-S-9248-75886

REV	DESCRIPTION	DATE	APPR.

REFERENCE INFORMATION AND NOTES
1. SCVWD RIGHT-OF-WAY ALIGNMENT SHOWN IS APPROXIMATE.

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
865 The Alameda
San Jose, California 95126
408-296-5515

DATE 12/02/22
DESIGN N. VASQUEZ
DRAWN A. ROSALES
CHECKED D. DEVLIN

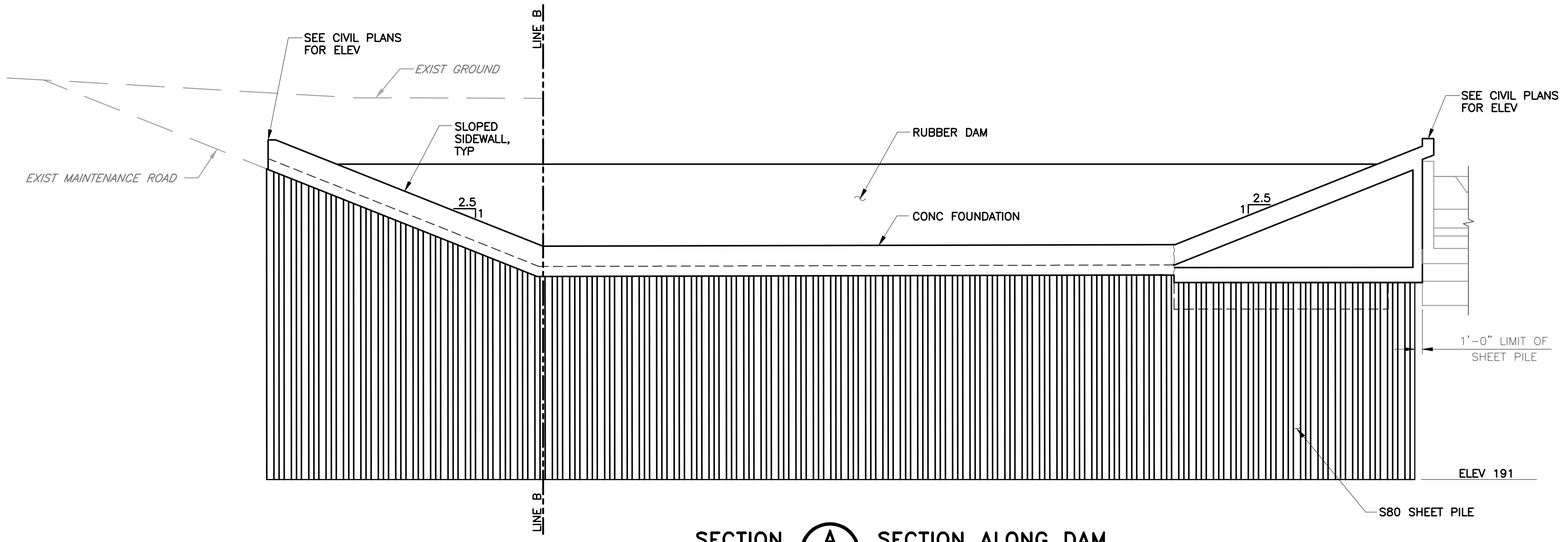
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MANISH HARESH MANISH No. 2639 Exp. 12/31/24 STATE OF CALIFORNIA STRUCTURAL
12/2/2022
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
GENERAL PLAN

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-02
SHEET NUMBER: 44



SECTION A / S-02 SECTION ALONG DAM

SCALE: 1" = 10'

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

DOCUMENT NUMBER: COO-S-9248-75887

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 — Mark Walsh Walsh — 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

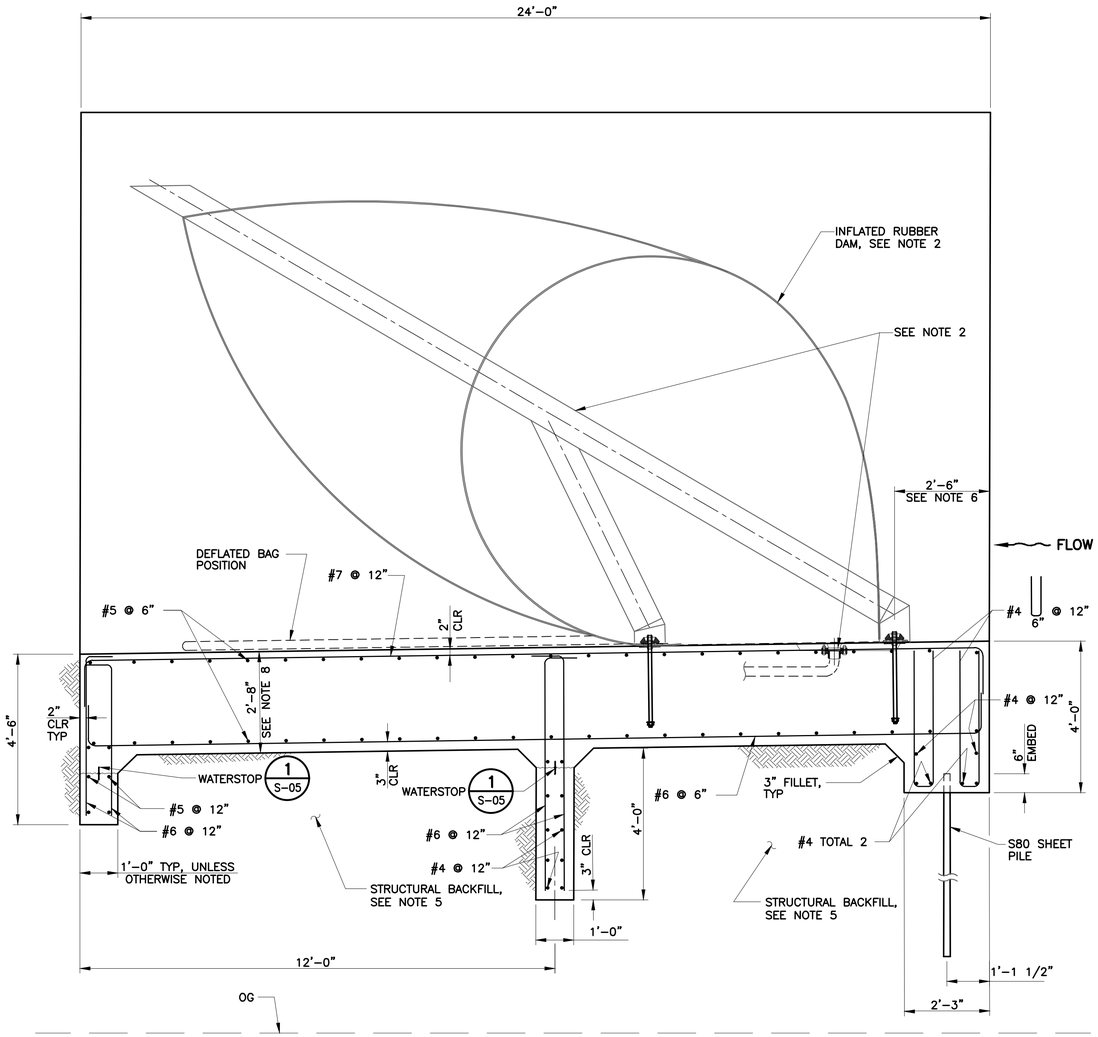
PROJECT NAME AND SHEET DESCRIPTION:

COYOTE PERCOLATION DAM REPLACEMENT

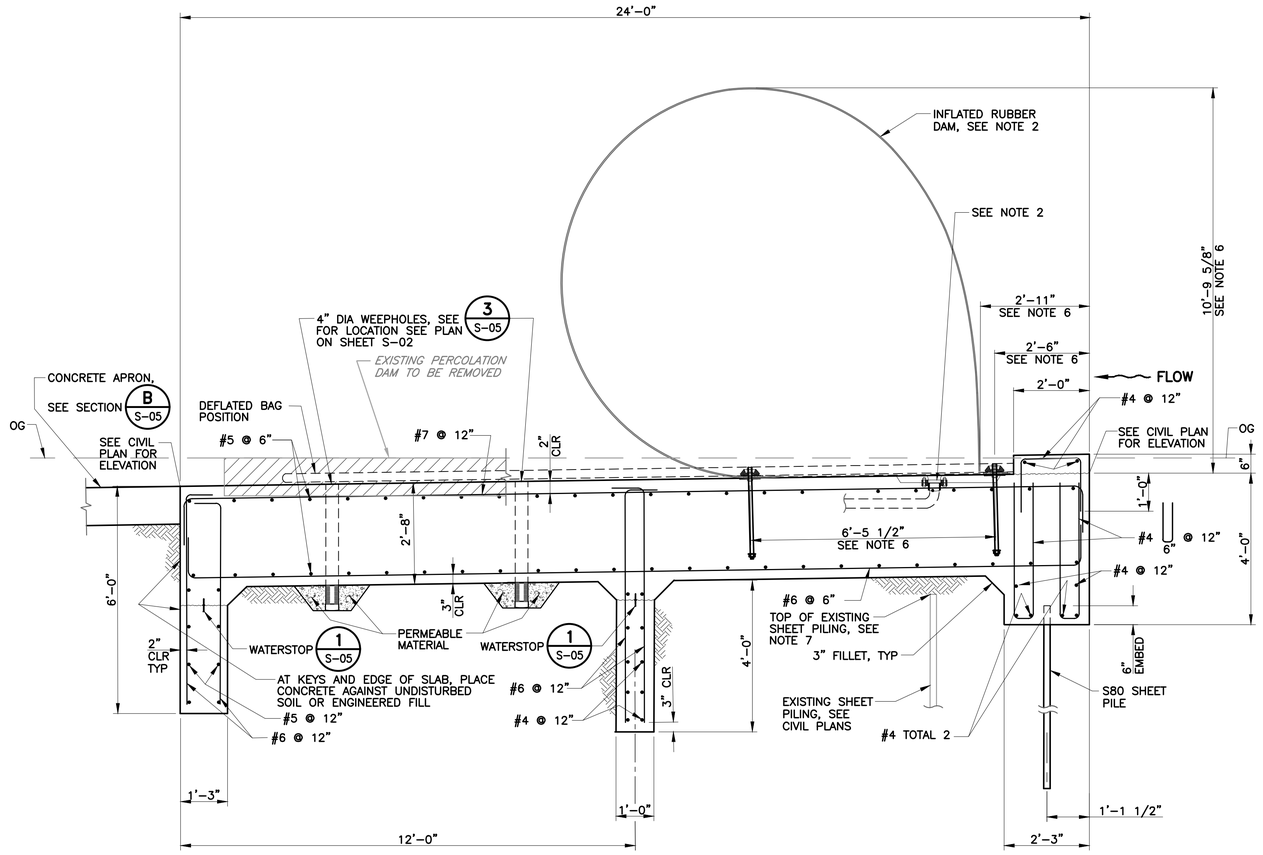
RUBBER DAM ELEVATION

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-03
SHEET NUMBER:	45

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



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



SECTION B S-02 RUBBER DAM FOUNDATION SLAB TYPICAL SECTION
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.

DOCUMENT NUMBER: C00-S-9248-75888

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	ENGINEERING CERTIFICATION
12/02/22	REGISTERED PROFESSIONAL ENGINEER, HARRIS WASH, No. 2639, Exp. 12/31/24, STRUCTURAL, STATE OF CALIFORNIA
DESIGN N. VASQUEZ	12/2/2022
DRAWN S. HICKEY	PROJECT ENGINEER DATE
CHECKED D. DEVLIN	

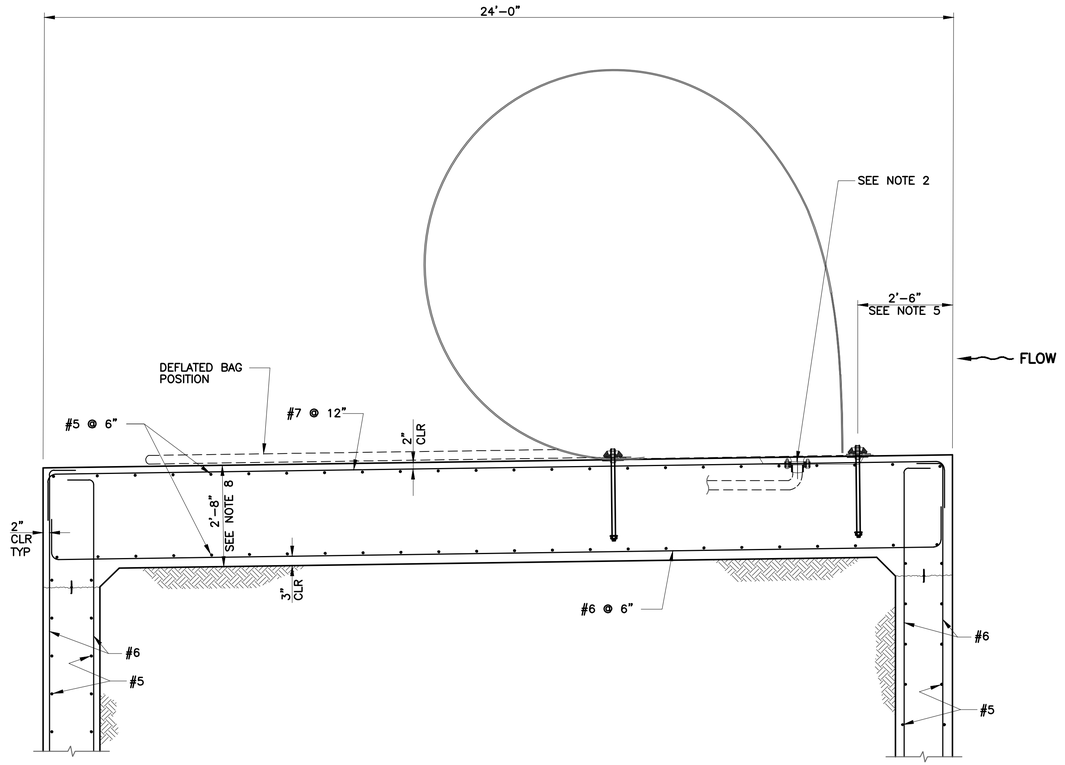
SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
DAM FOUNDATION SLAB DETAILS No. 1

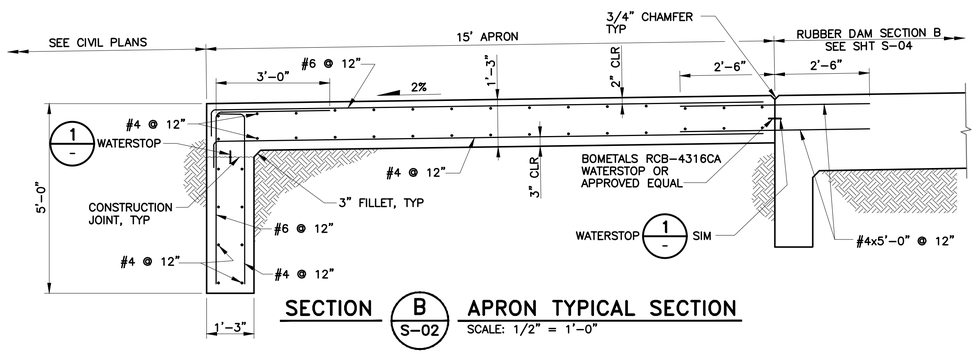
SCALE	PROJECT NUMBER
AS SHOWN	91864009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-04 SHEET NUMBER: 46

NOTES:

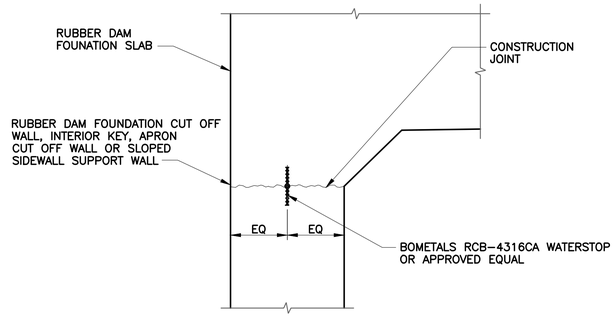
1. FOR TOP OF DAM ELEVATIONS, TOP OF WALL ELEVATIONS AND SLAB ELEVATIONS, SEE CIVIL PLANS.
2. FOR RUBBER DAM, EMBEDDED ANCHORS, EMBEDDED LOWER CLAMPING PLATE, AND ALL ASSOCIATED SEE M-SHEETS.
3. LAP SPLICES ARE NOT ALLOWED IN MAIN SLAB TRANSVERSE REINFORCEMENT.
4. FOR STRUCTURAL BACKFILL, SEE SECTION 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.



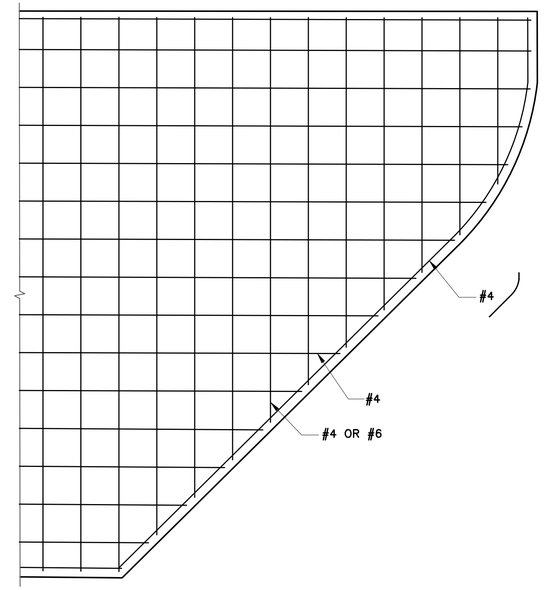
SECTION A / S-02 SOUTH SLOPED SIDEWALL
SCALE: 1/2" = 1'-0"



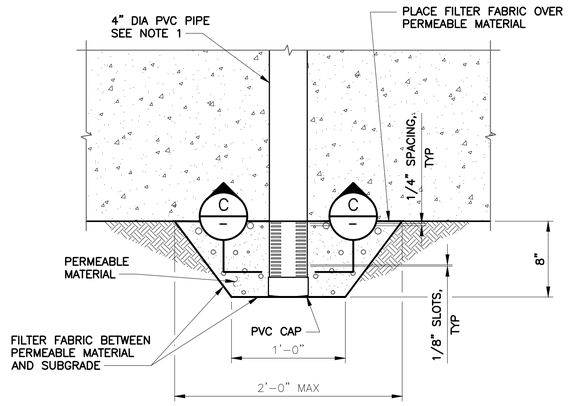
SECTION B / S-02 APRON TYPICAL SECTION
SCALE: 1/2" = 1'-0"



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

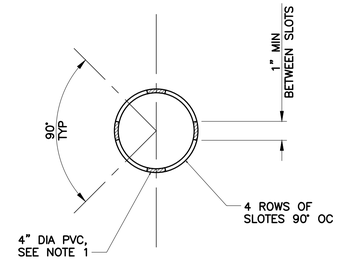


DETAIL 2 / S-02 CONCRETE APRON CORNER REBAR DETAIL
SCALE: 1/2" = 1'-0"



DETAIL 3 / S-02 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 C / - PVC PIPE
NO SCALE

USERNAME: OscoReyn Thu 12 Jan 2023 04:51pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\S-05
DOCUMENT NUMBER: COO-S-9248-75889

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 NAVASH M. HAMEDI No. 2639 Exp. 12/31/24 STATE OF CALIFORNIA STRUCTURAL
12/2/2022
PROJECT ENGINEER DATE

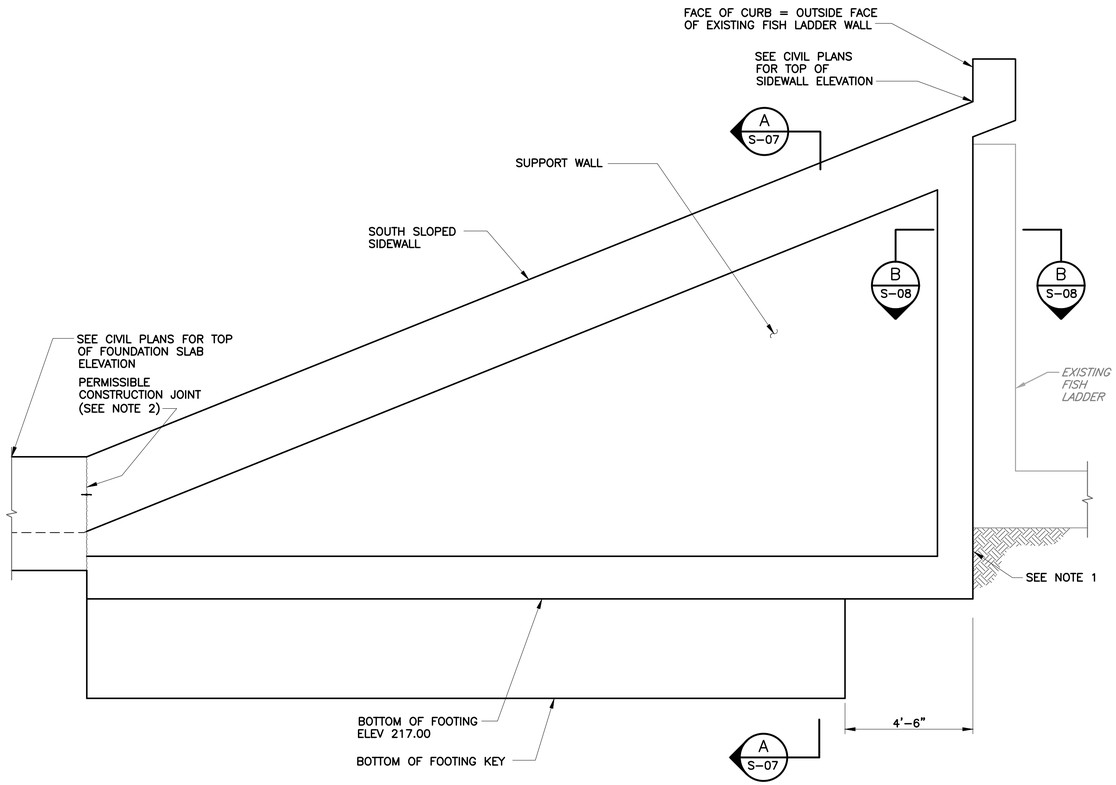
SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
DAM FOUNDATION SLAB DETAILS No. 2

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

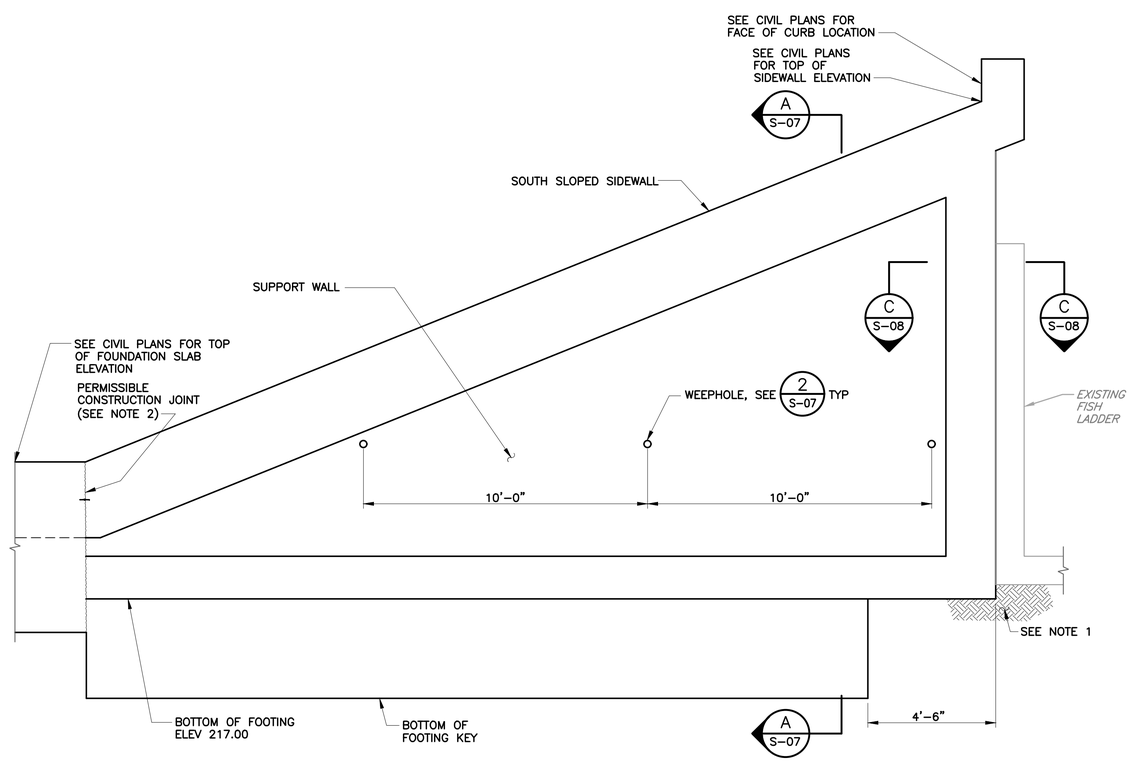
PROJECT NUMBER: 91864009
SHEET CODE: S-05
SHEET NUMBER: 47

USERNAME: OscoReyn Thu 12 Jan 2023 04:52pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Pere Dam Replacement\SHEETS\S-06



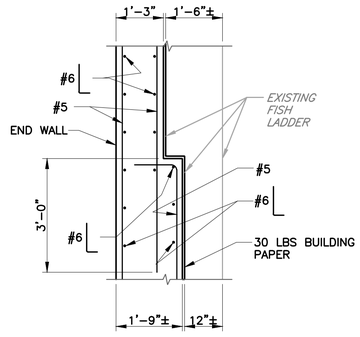
UPSTREAM SUPPORT WALL ELEVATION

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



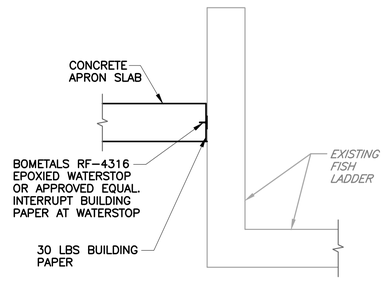
DOWNSTREAM SUPPORT WALL ELEVATION

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



DETAIL 1 / S-02 END WALL LONGITUDINAL REINFORCEMENT AT FISH LADDER CHANGE IN WALL WIDTH

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



SECTION A / S-02 JOINT DETAIL

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

NOTE:

1. IF SOIL SLOUGHING 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.
2. AT CONSTRUCTION JOINTS, PLACE BOMETALS RCB-4316CA WATERSTOP OR APPROVED EQUAL.

DOCUMENT NUMBER: COO-S-9248-75890

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
REGISTERED PROFESSIONAL ENGINEER MEGHASH M. FRANES No. 2639 Exp. 12/31/24 STATE OF CALIFORNIA STRUCTURAL
12/2/2022
PROJECT ENGINEER DATE

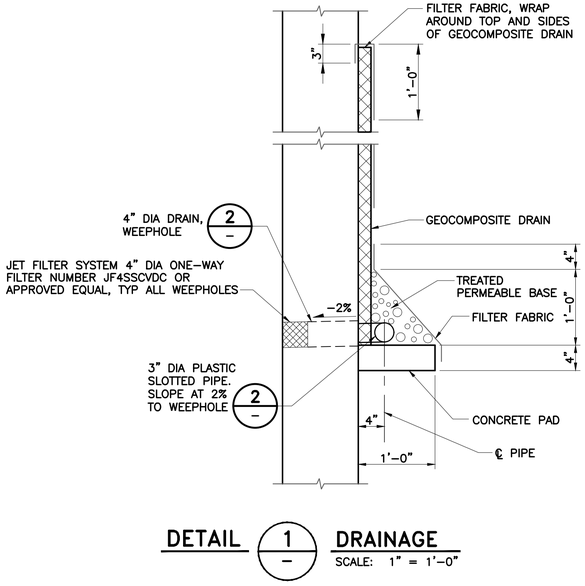
SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER DATE

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

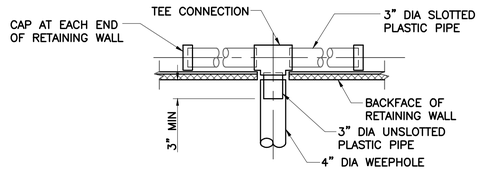
SCALE: AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 91864009
SHEET CODE: S-06
SHEET NUMBER: 48

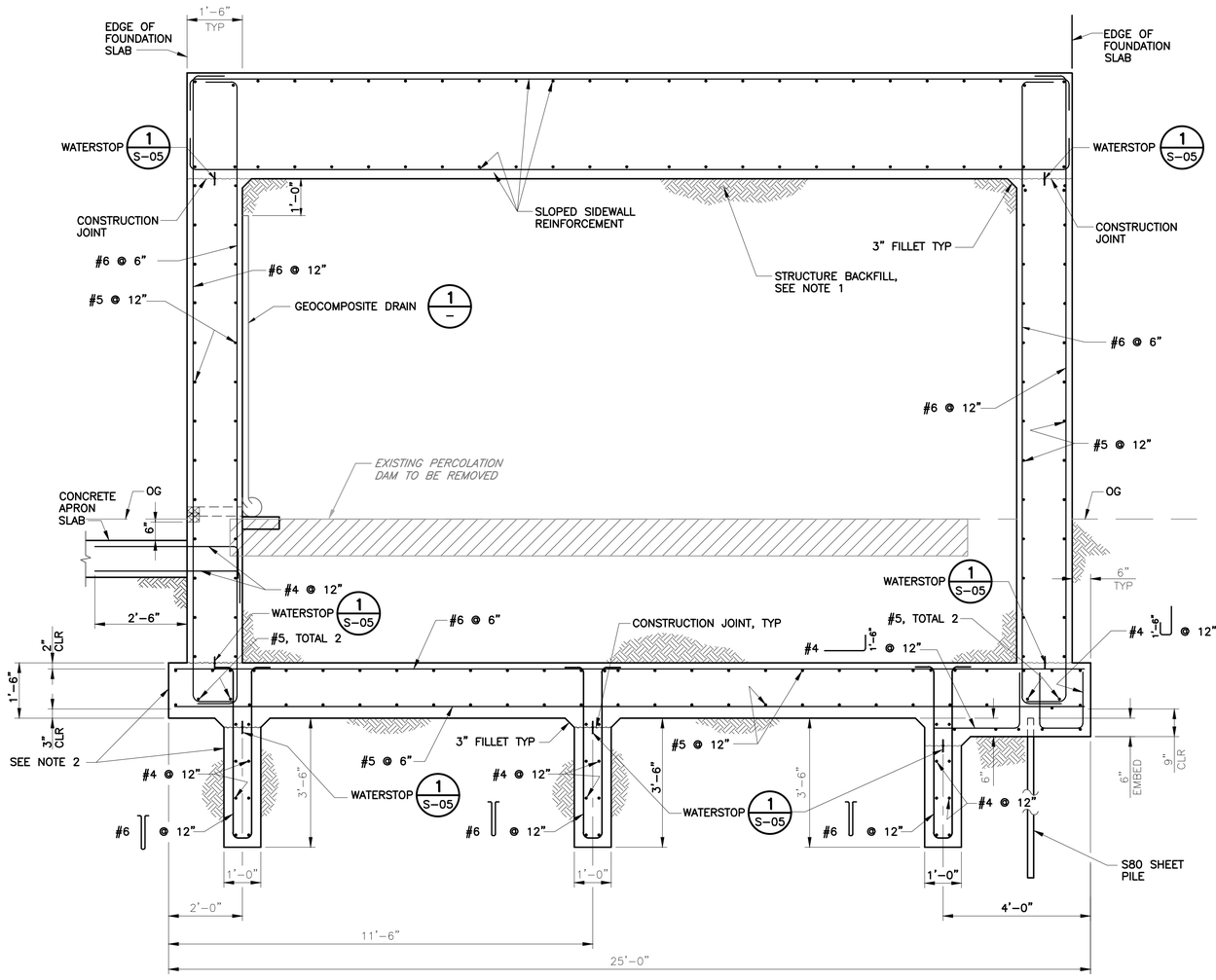
USERNAME: OscaReyn Thu 12 Jan 2023 04:52pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\S-07



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



DETAIL 2 – **SLOTTED PIPE DETAILS**
NO SCALE



SECTION A – **SUPPORT WALL TYPICAL SECTION**
SCALE: 1/2" = 1'-0"
S-02
S-06

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

DOCUMENT NUMBER: C00-S-9248-75891

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
865 The Alameda
San Jose, California 95126
408-296-5515

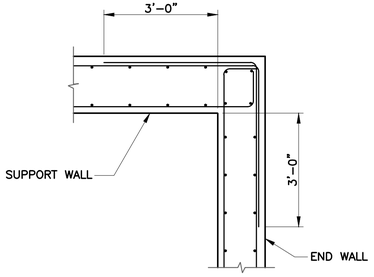
DATE 12/02/22
DESIGN N. VASQUEZ
DRAWN S. HICKEY
CHECKED D. DEVLIN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — Mark Walsh — No. 2639 Exp. 12/31/24 — STRUCTURAL — STATE OF CALIFORNIA
12/2/2022
PROJECT ENGINEER DATE

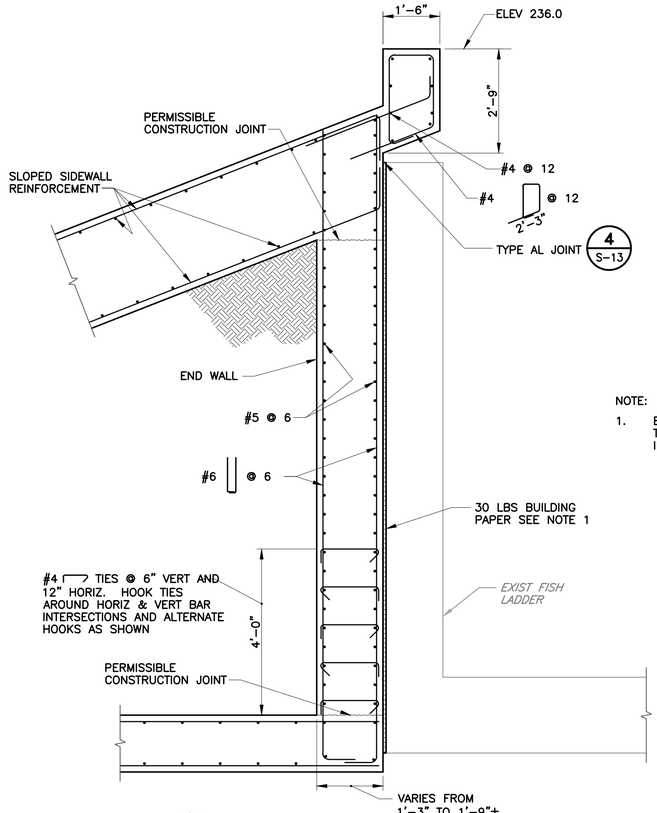
SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
SOUTH SLOPED SIDEWALL SUPPORT WALL 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-07
SHEET NUMBER: 49



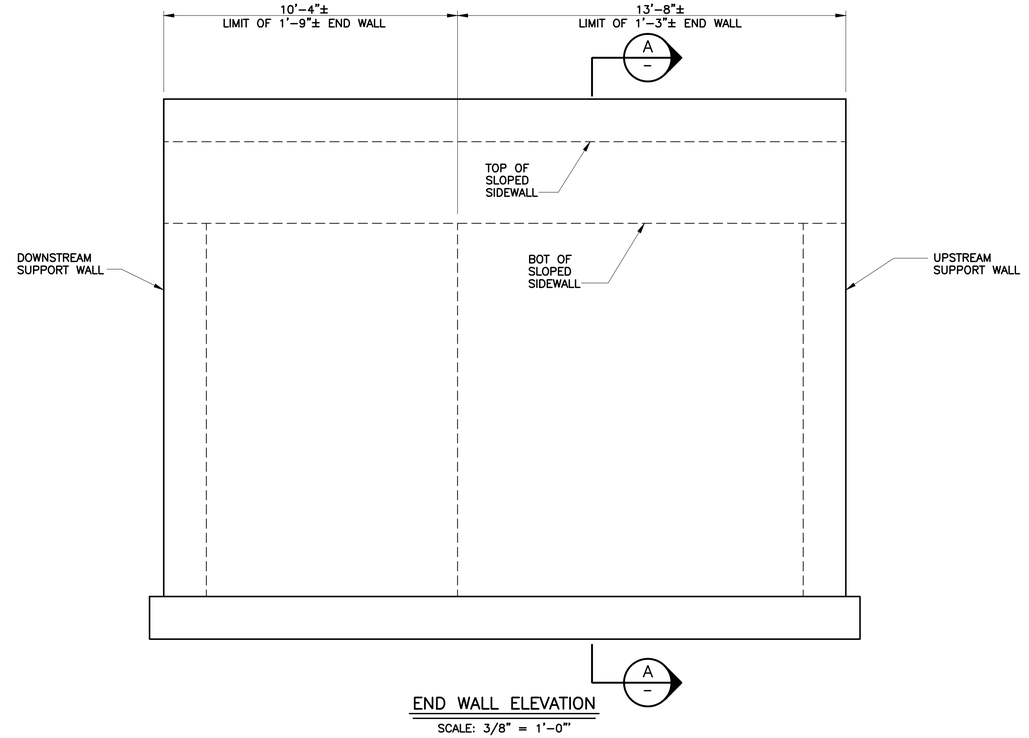
DETAIL 1/– CORNER DETAIL
SCALE: 1/2" = 1'-0"
S-02
S-08



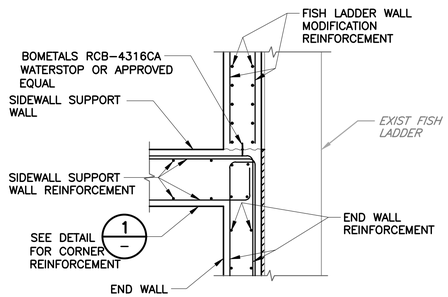
SECTION A/– FISH LADDER MODIFICATIONS DETAIL No. 1
SCALE: 1/2" = 1'-0"
S-02
S-08

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

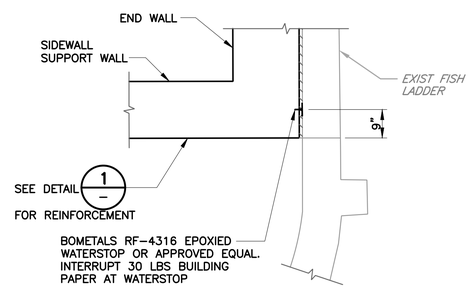
NOTES
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL



END WALL ELEVATION
SCALE: 3/8" = 1'-0"



SECTION B/S-06 WATERSTOP
SCALE: 1/2" = 1'-0"



SECTION C/S-06 WATERSTOP
SCALE: 1/2" = 1'-0"

DOCUMENT NUMBER: COO-S-9248-75892

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	A. ROSALES
CHECKED	D. DEVLIN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — Mark Nash Hanes — No. 2639 — Exp. 12/31/24 — STATE OF CALIFORNIA — STRUCTURAL
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
SLOPED SIDEWALL END WALL

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-08
SHEET NUMBER:	50

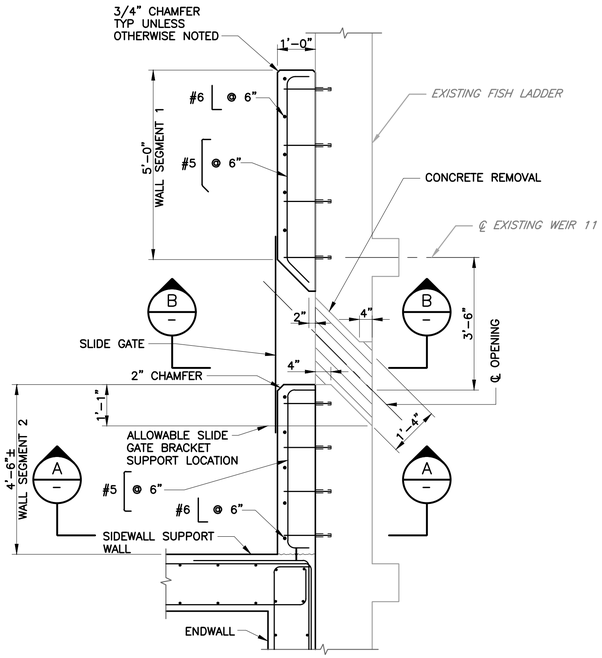
USERNAME: DascaReyn Thu 12 Jan 2023 04:52pm
FILENAME: K:\Active Projects\WP-91864009\Coyote Perc Dam Replacement\SHEETS\S-08

USERNAME: OscaReyn Thu 12 Jan 2023 04:52pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\S-09

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

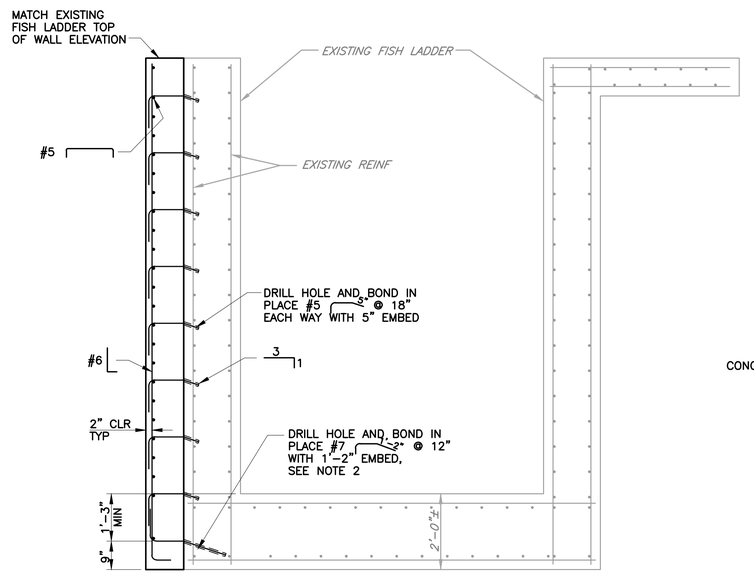
LEGEND:

INDICATES WALL REMOVAL (PORTION)

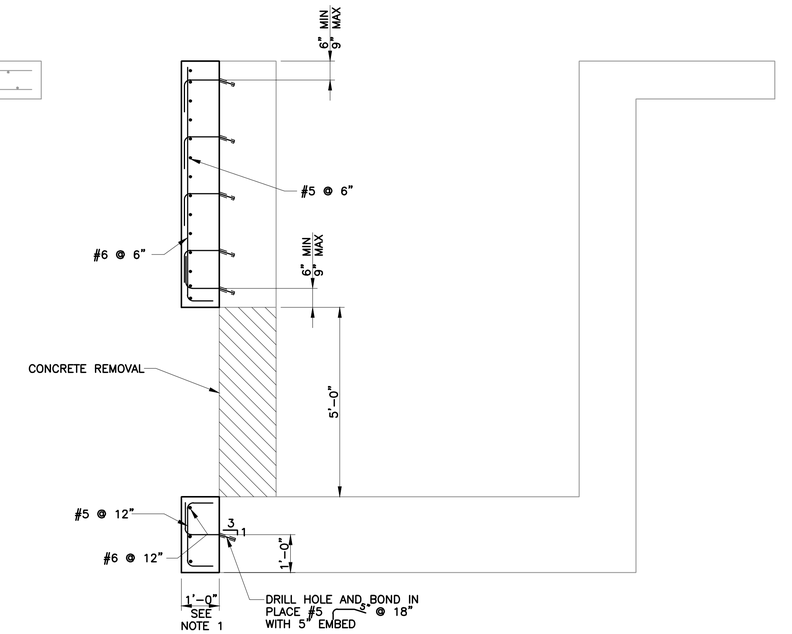


NOTE:
FOR INFORMATION NOT SHOWN SEE CIVIL PLANS

DETAIL 1/S-02 FISH LADDER MODIFICATION
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:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

DOCUMENT NUMBER: COO-S-9248-75893

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

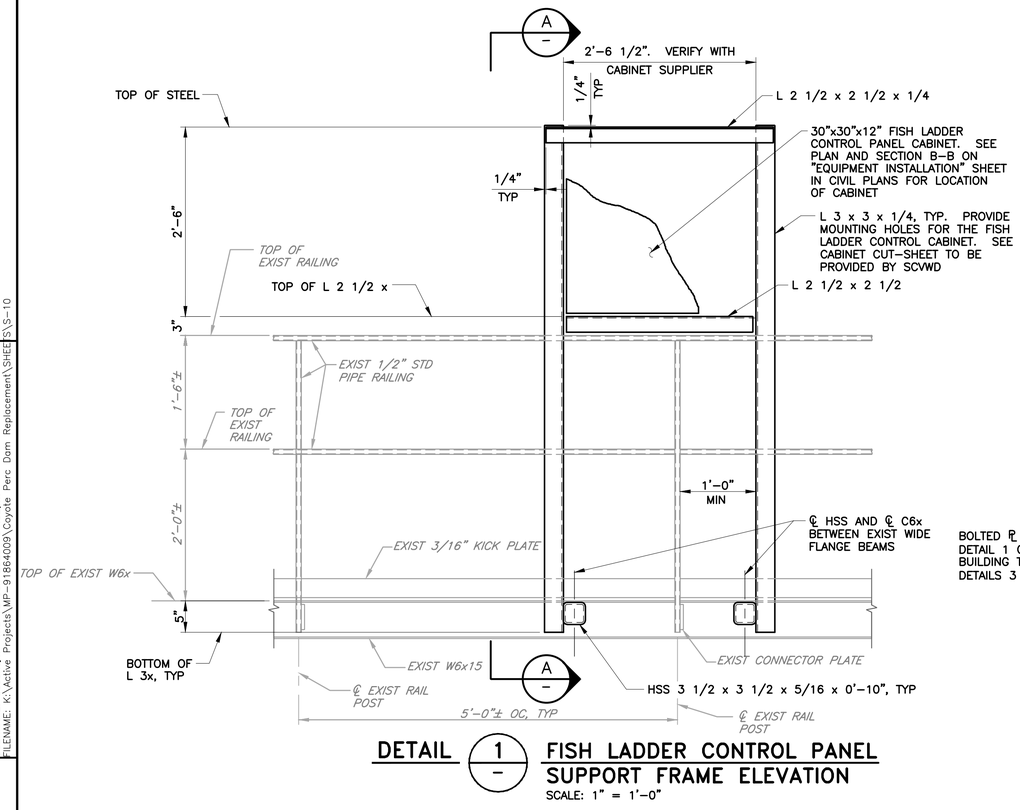
DATE 12/02/22
DESIGN N. VASQUEZ
DRAWN S. HICKEY
CHECKED D. DEVLIN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — HRAYR YAVASH — 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

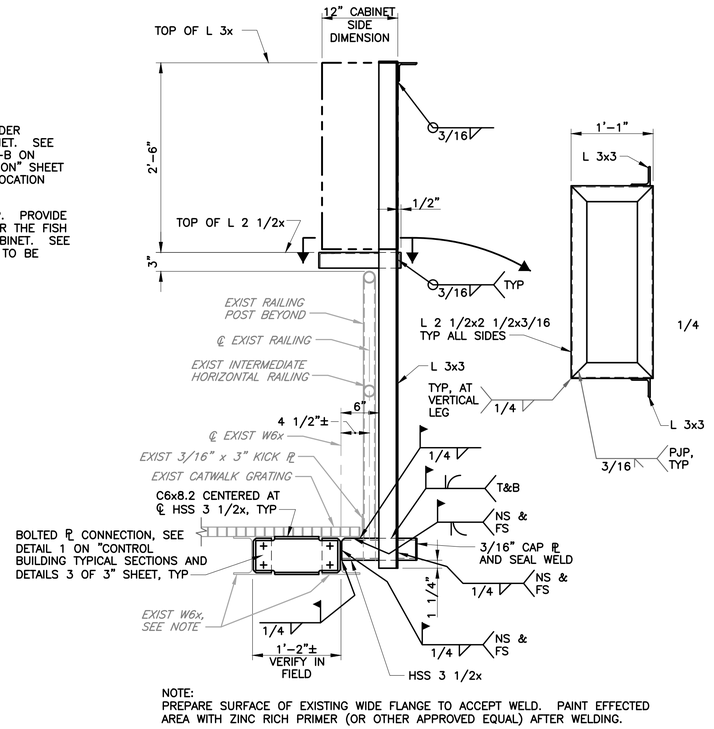
PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
FISH LADDER WALL OPENING

SCALE: AS SHOWN
VERIFY SCALES: 0 1" — BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
PROJECT NUMBER: 91864009
SHEET CODE: S-09
SHEET NUMBER: 51



DETAIL 1 — FISH LADDER CONTROL PANEL SUPPORT FRAME ELEVATION

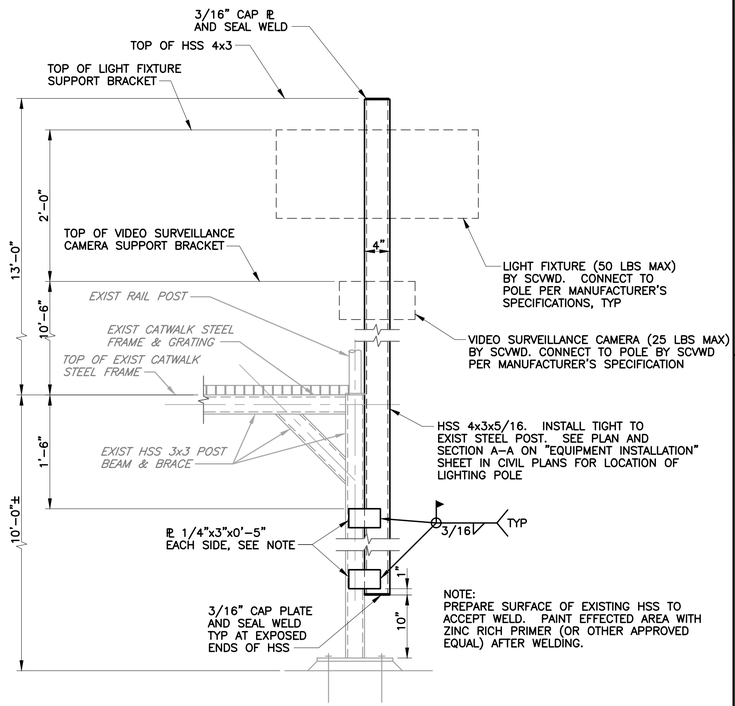
SCALE: 1" = 1'-0"



NOTE:
PREPARE SURFACE OF EXISTING WIDE FLANGE TO ACCEPT WELD. PAINT EFFECTED AREA WITH ZINC RICH PRIMER (OR OTHER APPROVED EQUAL) AFTER WELDING.

SECTION A — FISH LADDER CONTROL PANEL SUPPORT FRAME

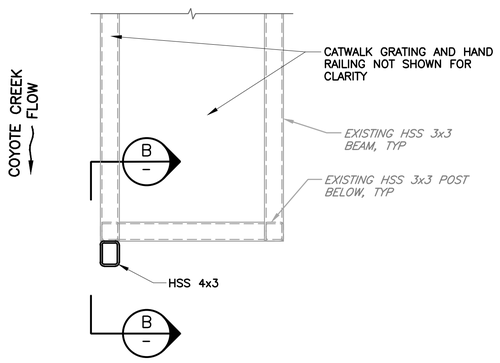
SCALE: 1" = 1'-0"



NOTE:
PREPARE SURFACE OF EXISTING HSS TO ACCEPT WELD. PAINT EFFECTED AREA WITH ZINC RICH PRIMER (OR OTHER APPROVED EQUAL) AFTER WELDING.

SECTION B — LIGHTING POLE ELEVATION

SCALE: 1" = 1'-0"



PARTIAL EXISTING CATWALK FRAMING PLAN

SCALE: 1" = 1'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: COO-S-9248-75894

USERNAME: OscaReyn Thu 12 Jan 2023 04:52pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\S-10

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

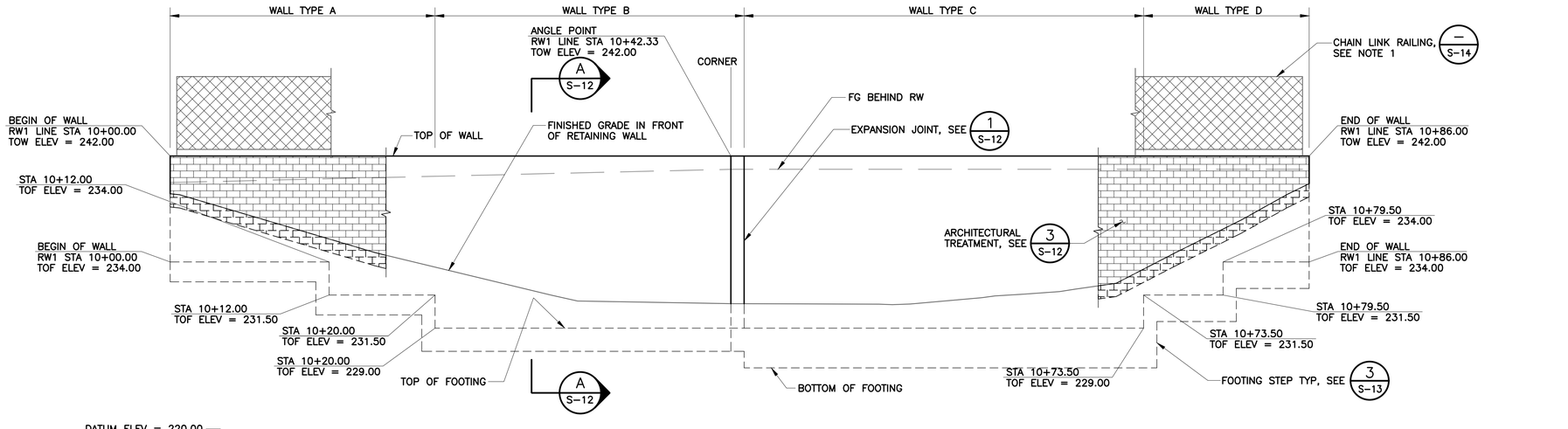
DATE	
12/02/22	
DESIGN	
J. VISAYA	
DRAWN	
S. HICKEY	
CHECKED	
D. DEVLIN	

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — Mahesh Tiwari — 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
MISCELLANEOUS EQUIPMENT SUPPORT DETAILS

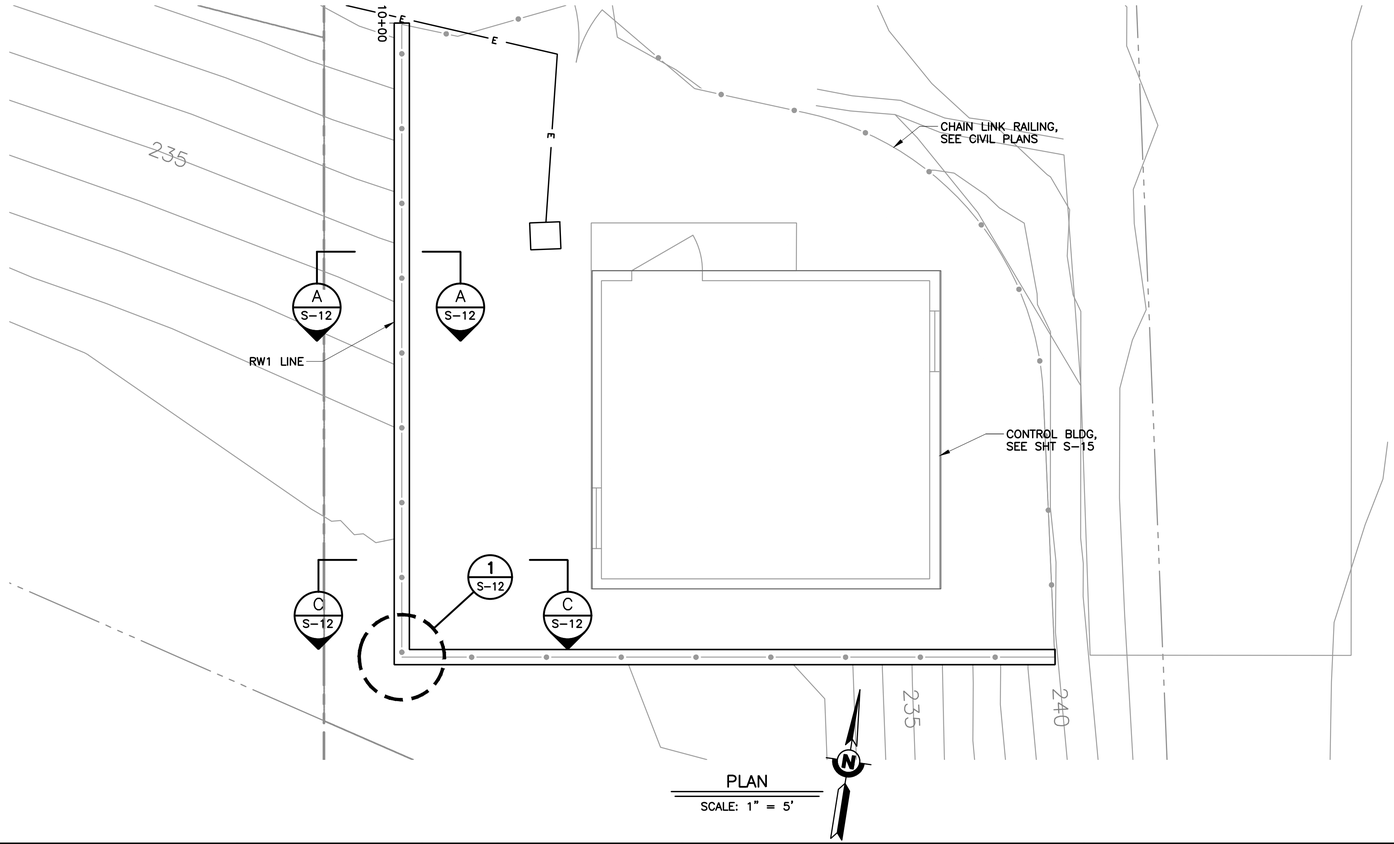
SCALE	PROJECT NUMBER
AS SHOWN	91864009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-10
	SHEET NUMBER: 52



DEVELOPED ELEVATION

SCALE: 1" = 5'

NOTES:
1. PLACE CHAIN LINK RAILING AFTER BACKFILL HAS BEEN PLACED.
2. PLACE WEAKENED PLANES AT 24'-0" MAX. FOR WEAKENED PLANES DETAILS, SEE 1 S-13.



PLAN

SCALE: 1" = 5'

REV	DESCRIPTION	DATE	APPR.

REFERENCE INFORMATION AND NOTES
1. CONTOUR LINES AND ELEVATIONS ARE APPROXIMATE.
2. SCVWD RIGHT-OF-WAY ALIGNMENT SHOWN IS APPROXIMATE.

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
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
REGISTERED PROFESSIONAL ENGINEER — MARK A. WELCH — 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

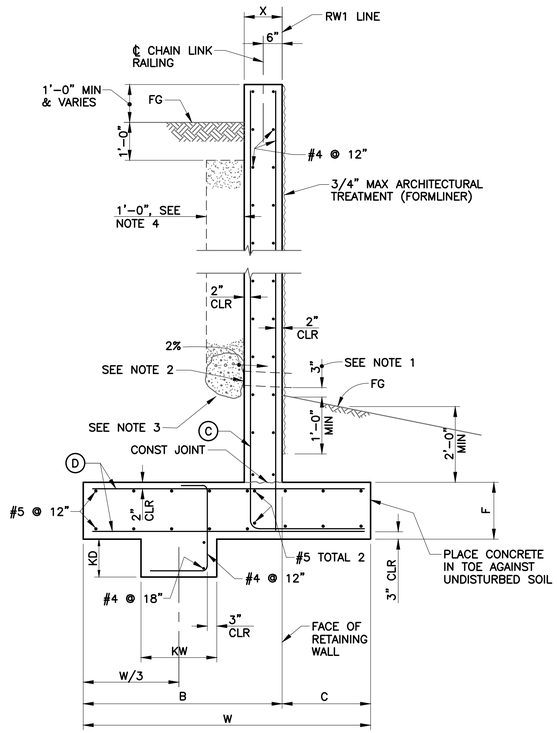
PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
CONTROL BUILDING RETAINING WALL GENERAL PLAN

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-11
SHEET NUMBER: 53

DOCUMENT NUMBER: COO-S-9248-75895

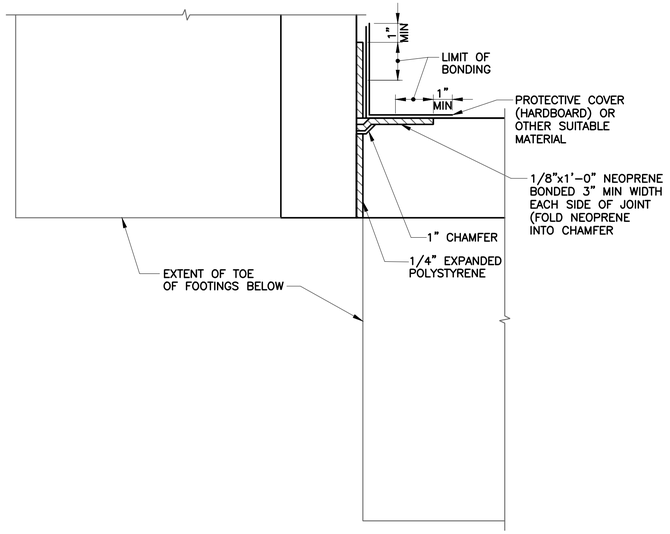
USERNAME: OscaReyn Thu 12 Jan 2023 04:53pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\S-11



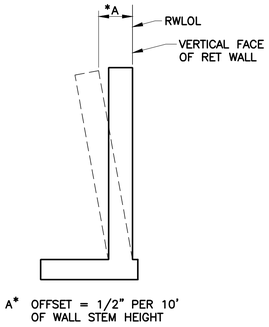
RETAINING WALL SCHEDULE				
WALL TYPE	A	B	C	D
W	7'-7"	10'-0"	12'-0"	9'-6"
B	5'-3"	6'-6"	8'-0"	6'-6"
C	2'-4"	3'-6"	4'-0"	3'-0"
F	1'-6"	1'-9"	2'-6"	2'-0"
X	1'-0"	1'-0"	1'-2"	1'-2"
KD	1'-0"	1'-3"	2'-0"	1'-8"
KW	2'-0"	2'-0"	2'-0"	2'-0"
Ⓒ	#6 @ 9"	#6 @ 6"	#6 @ 6"	#6 @ 6"
Ⓓ	#6 @ 9"	#6 @ 6"	#6 @ 6"	#6 @ 6"

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

NOTES:
1. 4" Dia DRAINS AT INTERMEDIATE SAG POINTS AND 25'-0" MAXIMUM CENTER TO CENTER. WALL DRAINS SHALL BE LOCATED 3"+/- ABOVE FINISHED GRADE.
2. 6" SQUARE ALUMINUM OR GALVANIZED STEEL WIRE 1/4" MESH HARDWARE CLOTH, MINIMUM WIRE DIAMETER 0.025". ANCHOR FIRMLY TO BACKFACE.
3. ONE CUBIC FOOT PERVIOUS BACKFILL MATERIAL IN A NONWOVEN FILTER FABRIC, SECURELY TIED.
4. PERVIOUS BACKFILL MATERIAL CONTINUOUS BEHIND RETAINING WALL.

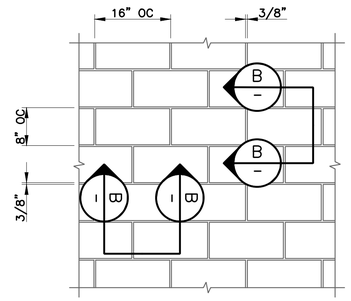


DETAIL Ⓘ S-11 CORNER DETAIL
NO SCALE

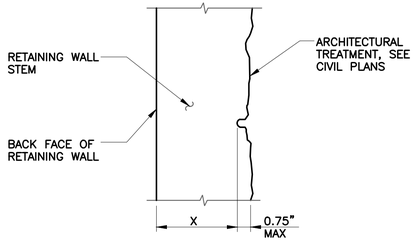


A* OFFSET = 1/2" PER 10' OF WALL STEM HEIGHT

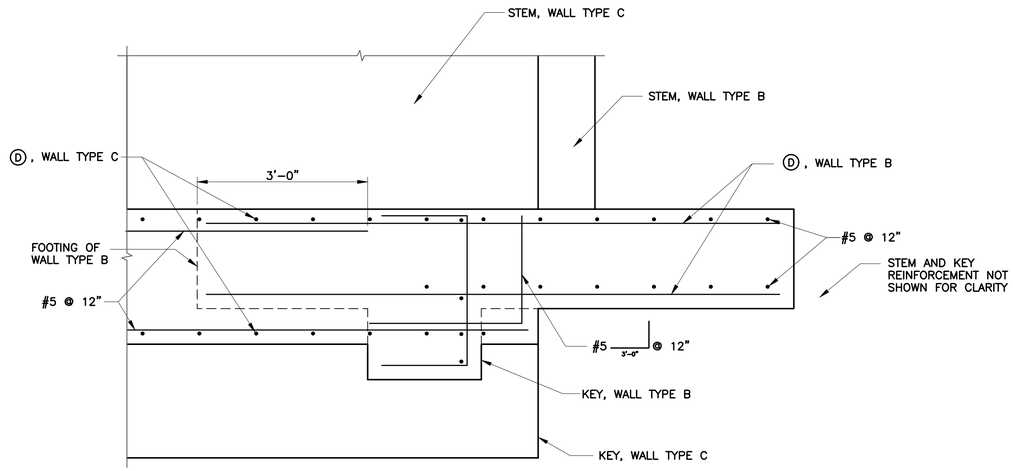
DETAIL 2 S-11 WALL OFFSET
NO SCALE



DETAIL 3 S-11 ARCHITECTURAL TREATMENT
NO SCALE



SECTION Ⓑ – ARCHITECTURAL TREATMENT
NO SCALE



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

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 S. RECHENMACHER
DRAWN A. ROSALES
CHECKED D. DEVLIN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MARK A. WASH 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

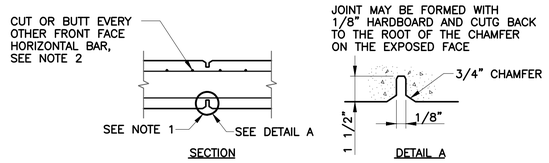
PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
CONTROL BUILDING RETAINING WALL DETAILS

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-12
SHEET NUMBER: 54

DOCUMENT NUMBER: COO-S-9248-75896

USERNAME: OscaReyn Thu 12 Jan 2023 04:53pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\S-12

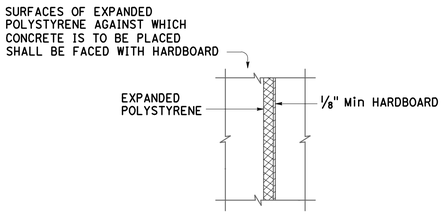


DETAIL 1/– WEAKENED PLANES

SCALE: NO SCALE

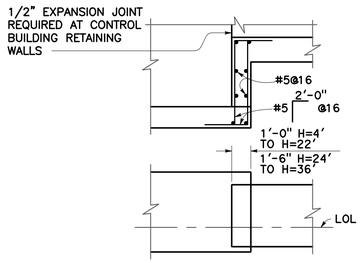
S-02
S-08

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.



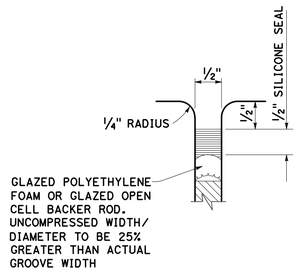
DETAIL 2/S-18 EXPANSION JOINT

SCALE: NO SCALE



DETAIL 3/S-11 FOOTING STEPS

SCALE: NO SCALE



DETAIL 4/– TYPE AL JOINT

SCALE: NO SCALE

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: C00-S-9248-75897

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
Matthew Walsh Devlin
No. 2639
Exp. 12/31/24
STATE OF CALIFORNIA STRUCTURAL
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

USERNAME: OscaReyn Thu 12 Jan 2023 04:53pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\S-13

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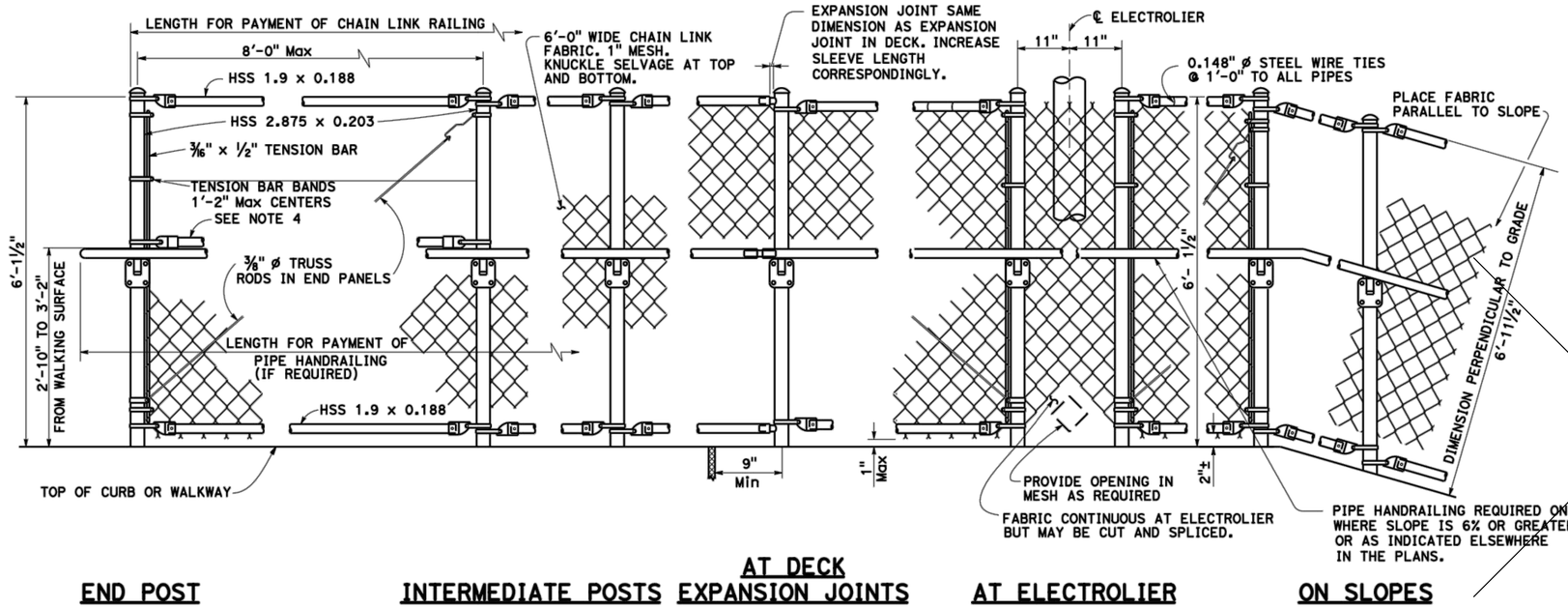


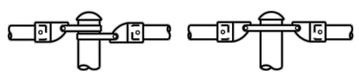
END POST

INTERMEDIATE POSTS

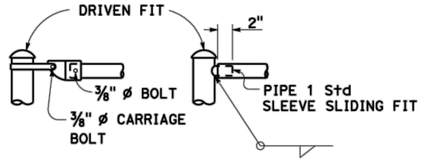
AT DECK EXPANSION JOINTS

AT ELECTROLIER

ON SLOPES



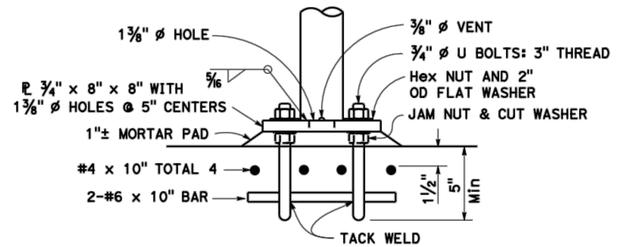
ALTERNATIVE DETAILS



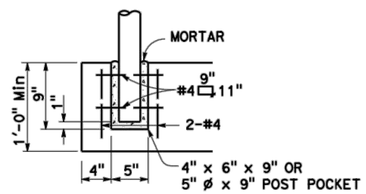
TYPICAL CONNECTION DETAILS

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".



ANCHORAGE DETAIL



ALTERNATIVE ANCHORAGE DETAIL

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

DESIGN NOTES

DESIGN:

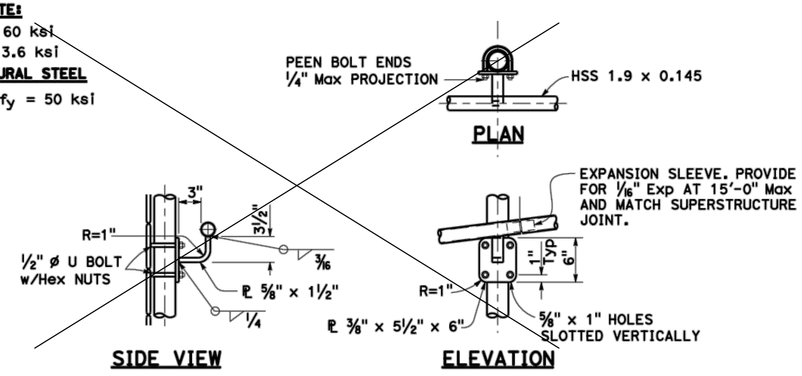
AASHTO LRFD Bridge Design Specifications 8th Edition 2017 with California Amendments April 2019

CONCRETE:

f_y = 60 ksi
f'_c = 3.6 ksi

STRUCTURAL STEEL

HSS: f_y = 50 ksi



PIPE HANDRAILING BRACKET

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

2018 REVISED STANDARD PLAN RSP B11-7

3-27-20

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: COO-S-9248-75898

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — MARK A. MASHBURN — No. 2639 — Exp. 12/31/24 — STATE OF CALIFORNIA — STRUCTURAL
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
CALTRANS STANDARD PLANS – CHAIN LINK RAILING

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-14
SHEET NUMBER: 56

USERNAME: OscaReyn Thu 12 Jan 2023 04:53pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\S-14

GENERAL NOTES:

1. 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.
2. 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.
3. GENERAL NOTES APPLY TO ALL DRAWINGS.
4. DO NOT SCALE DRAWINGS. SCALE IS SHOWN FOR REFERENCE ONLY.
5. 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.
6. 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.
7. THE CONTRACTOR MUST PROTECT AND SHORE ALL EXCAVATIONS WITH BRACING AND SHORING AS REQUIRED TO MAINTAIN SOIL STABILITY.
8. CONSTRUCT THOSE FEATURES OF THE PROJECT, WHICH MAY NOT BE FULLY SHOWN IN A MANNER SIMILAR TO THAT USED FOR SIMILAR FEATURES.
9. CENTERLINES OF FOUNDATION FOOTING COINCIDE WITH CENTERLINES OF WALLS, UON.
10. 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.
11. NO CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS, WALLS, & SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
12. REINFORCING STEEL SPLICES WILL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE ENGINEER.
13. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

ABBREVIATIONS:

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

LEGEND:

- 530'-0" — INDICATES TOP OF STEEL ELEVATION.
- ±20'-0" — INDICATES TOP OF WALL ELEVATION.
- [-10'-0"] — 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, GC_p = ±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; S_s = 1.803 S_1 = 0.66; S_{DS} = 1.202 S_{D1} = 0.748; SEISMIC DESIGN CATEGORY D; R = 5 SRMSW C_s = 0.24; V = C_sW = 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
- FRICTION 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

USERNAME: OscaReyn Thu 12 Jan 2023 04:53pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\S-15

DOCUMENT NUMBER: COO-S-9248-75899

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

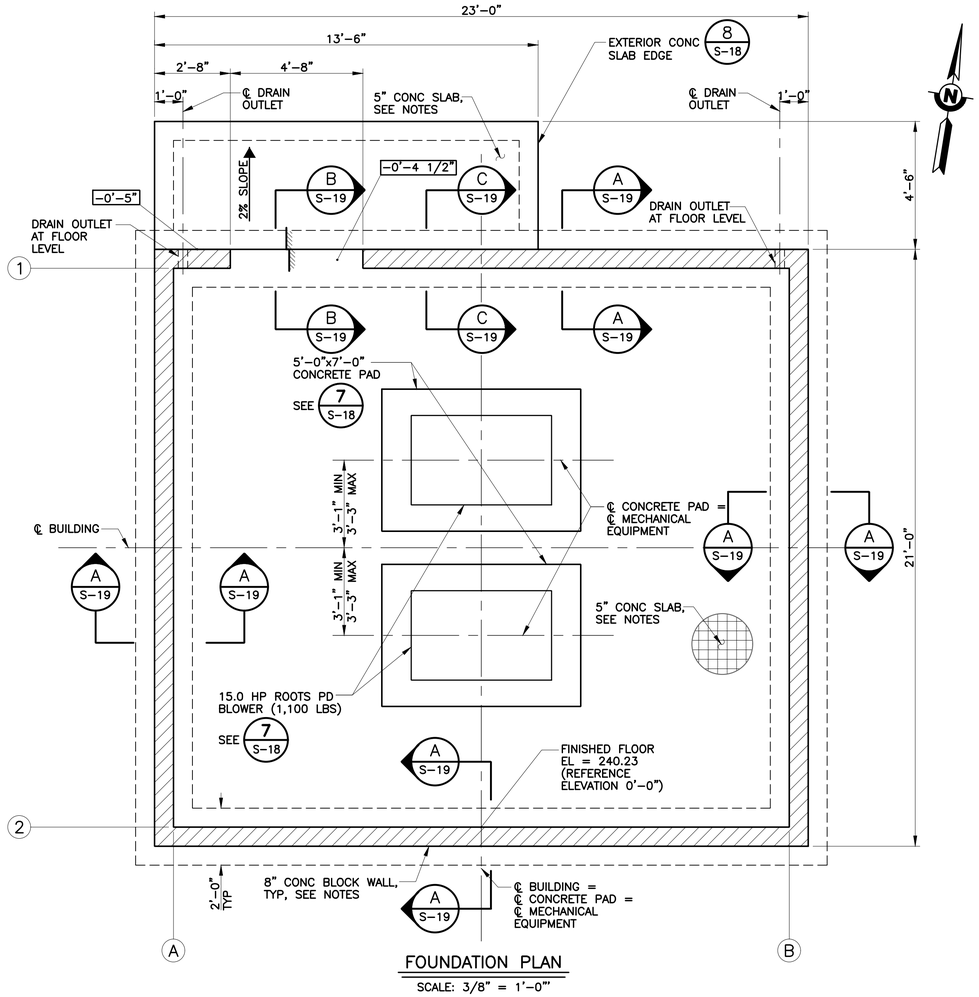
DATE 12/02/22
DESIGN J. VISAYA
DRAWN S. HICKEY
CHECKED D. DEVLIN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — MARSH HARRIS — 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

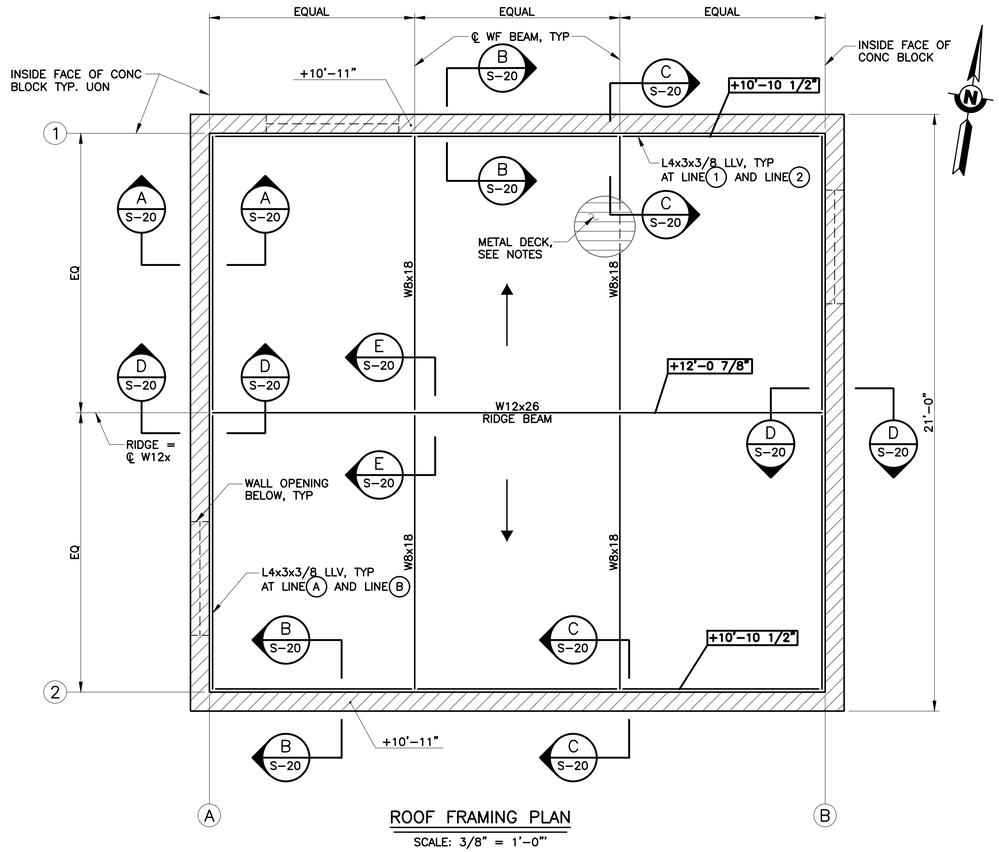
PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
CONTROL BUILDING STRUCTURAL NOTES

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: S-15
SHEET NUMBER: 57



FOUNDATION PLAN

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



ROOF FRAMING PLAN

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

ROOF FRAMING NOTES:

1. REFER TO CONTROL BUILDING GENERAL NOTES & SPECIFICATIONS.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS & ELEVATIONS SHOWN WITH CIVIL DWGS AND INFORM STRUCTURAL ENGINEER OF ANY DISCREPANCY.
3. +20'-0" INDICATES TOP OF STEEL ELEVATION (BOTTOM OF METAL DECK)
4. +20'-0" INDICATES TOP OF WALL ELEVATION.
5. NO MECH EQUIP, DUCTWORK, PIPING, ETC SHALL BE HUNG FROM METAL DECKING UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

METAL DECK NOTES:

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

FOUNDATION NOTES:

1. SEE CONTROL BUILDING FOUNDATION PLAN FOR TOP OF SLAB ELEVATIONS.
2. FOR DETAILED SOILS INFORMATION AND COMPLETE REQUIREMENTS, REFER TO SOILS REPORT BY CAL ENGINEERING AND TECHNOLOGY, DATED JANUARY 28, 2022.
3. 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
4. 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.
5. FOR FOOTING CONSTRUCTION JOINT, SEE "FOOTING CONSTRUCTION JOINT" DETAIL.
6. THE SIZE & LOCATION OF ALL FOOTING AND SLAB PENETRATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION
7. SEE "FOOTING AND WALL INTERSECTION" DETAIL FOR TYPICAL WALL & FOOTING INTERSECTION.
8. FOR TYPICAL HOOKS, BENDS & LAP OF REINFORCING, SEE "TYPICAL BAR HOOKS & BEND" AND "LAP SPLICE SCHEDULE" DETAILS.
9. FOR DETAILS OF PIPES THROUGH FOOTINGS, SEE "TYPICAL FOOTING PENETRATIONS" DETAIL.
10. CONCRETE CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT OF ALL EMBEDDED ITEMS.
11. ANCHOR BOLTS AND BASEPLATES SHALL NOT BE WET SET.
12. INDICATES FOOTING.
13. FOR CONTROL BUILDING WALL ELEVATIONS, SEE "CONCRETE BLOCK WALL ELEVATIONS" SHEET.

REINFORCED STRUCTURAL MASONRY NOTES:

1. CONCRETE BLOCK WALL
   - 8" NOMINAL SPLIT FACE CMU
   - #5 @ 16" OC HORIZONTAL REINFORCEMENT
   - #6 @ 16" OC VERTICAL REINFORCEMENT
2. ALL CELLS IN CONCRETE BLOCK CONSTRUCTION SHALL BE FULLY GROUTED.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. CLEANOUTS MUST BE PROVIDED PER ACI 350.
9. FOR CONCRETE BLOCK WALL INTERSECTIONS AND END OF WALL CONDITIONS, REFER TO "TYPICAL CONCRETE BLOCK WALL END/INTERSECTION" DETAIL.
10. THE STANDARD WIDTH OF BOTH HORIZONTAL AND VERTICAL MORTAR JOINTS JOINTS SHALL BE 3/8".
11. CONCRETE BLOCK CONSTRUCTION SHALL BE RUNNING BOND WITH OPEN ENDED BLOCK.
12. 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
BCA
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 — MEGHAN MARIE WASH — 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 FOUNDATION AND ROOF FRAMING PLANS

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: 91864005
SHEET CODE: S-16
SHEET NUMBER: 58

DOCUMENT NUMBER: COO-S-9248-75900

USERNAME: OscaReyn Thu 12 Jan 2023 04:53pm
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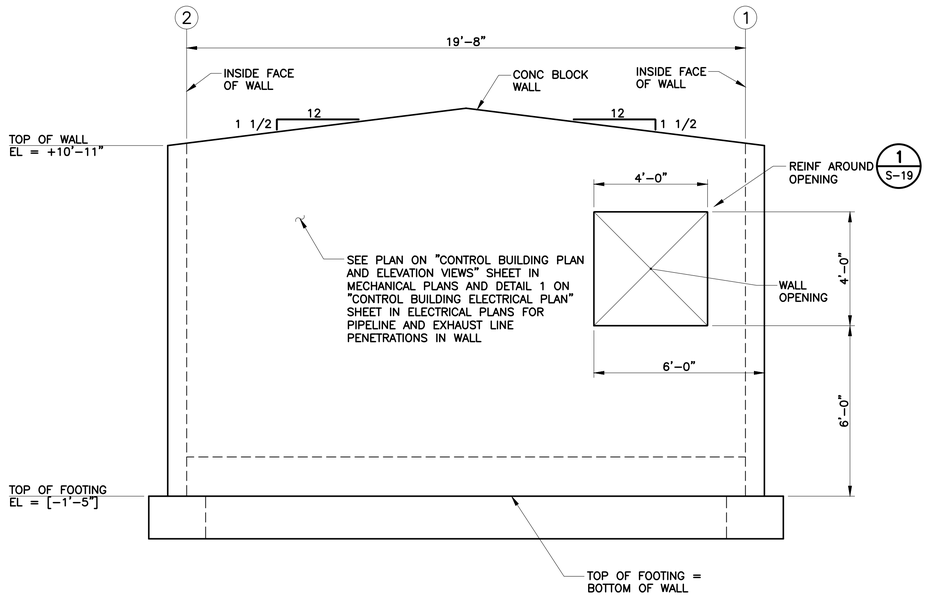
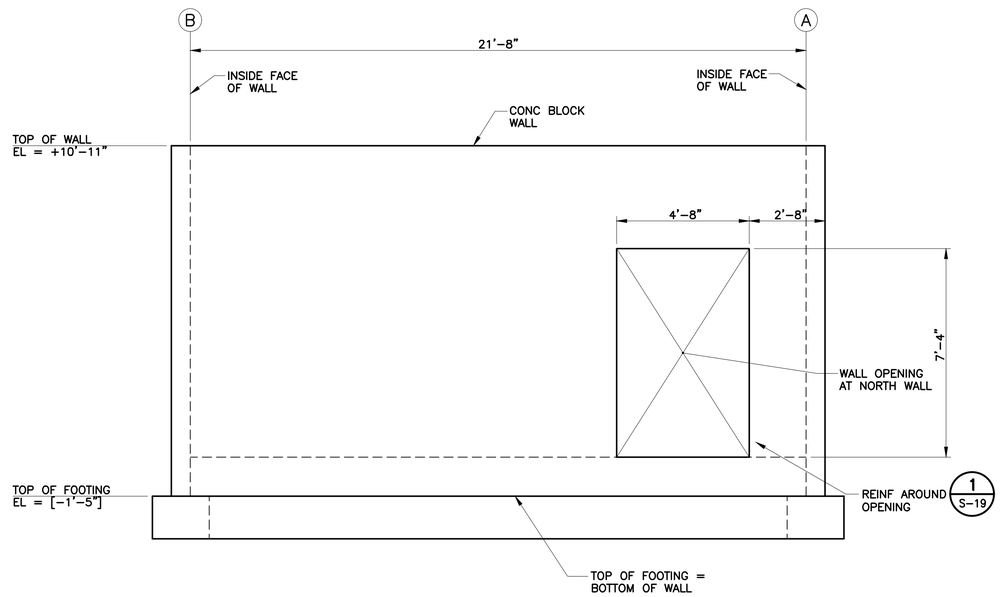


DETAIL 1/– EAST WALL ELEVATION
WEST WALL ELEVATION (OH)
SCALE: 3/8" = 1'-0"



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

USERNAME: OscaReyn Thu 12 Jan 2023 04:54pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\S-17

DOCUMENT NUMBER: C00-S-9248-75901

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

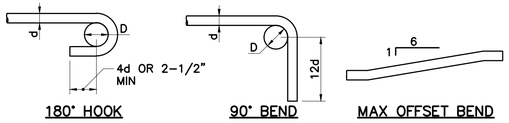
DATE	12/02/22
DESIGN	J. VISAYA
DRAWN	J. DELGADO
CHECKED	D. DEVLIN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — Mark Walsh — 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

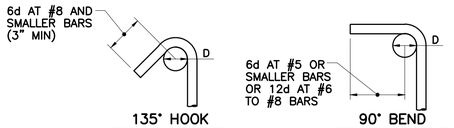
PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
CONTROL BUILDING CONCRETE BLOCK WALL ELEVATIONS

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



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

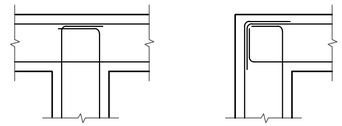
NOTE:
1. ALL BENDS SHALL BE MADE COLD.

DETAIL 1 — TYPICAL BAR HOOKS & BENDS
NO SCALE

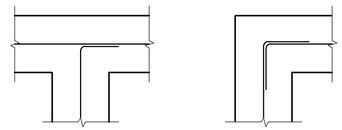
LAP SPLICE SCHEDULE				
BAR SIZE	f'c=3000 PSI		f'c=4000 PSI	
	BOTTOM	TOP	BOTTOM	TOP
#3	16"	18"	16"	16"
#4	18"	24"	16"	24"
#5	24"	30"	24"	30"
#6	36"	42"	30"	36"
#7	42"	54"	36"	48"
#8	54"	72"	48"	60"

NOTES:
1. LAP SPLICE LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
2. 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'.
3. WHEN TWO BARS OF DIFFERENT SIZES ARE SPLICED, USE THE SHORTER LAP LENGTH.
4. STAGGER LAP SPLICES OF ADJACENT BARS BY 24".
5. 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.
6. 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 *

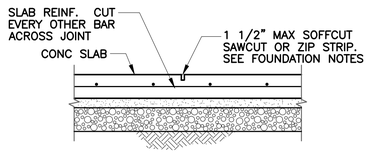


REINFORCING IN CENTER *

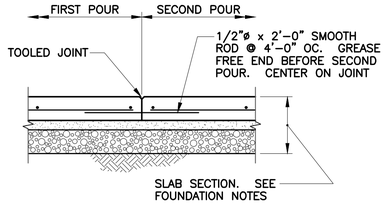
* VERTICAL REINFORCING NOT SHOWN

NOTES:
1. d = BAR DIAMETER
2. SEE TYPICAL BAR HOOKS & BENDS FOR MIN HOOK DIMENSIONS.

DETAIL 3 — FOOTING AND WALL INTERSECTIONS
NO SCALE

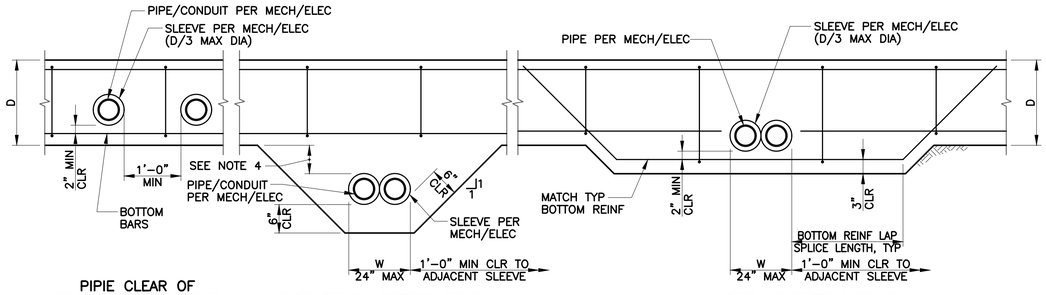


CONTROL JOINT



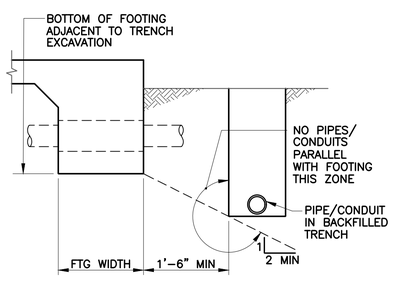
END CONDITION

DETAIL 4 — TYPICAL SLAB JOINTS
SCALE: 3/4 = 1'-0"



PIPIE CLEAR OF TOP & BOTTOM REINF

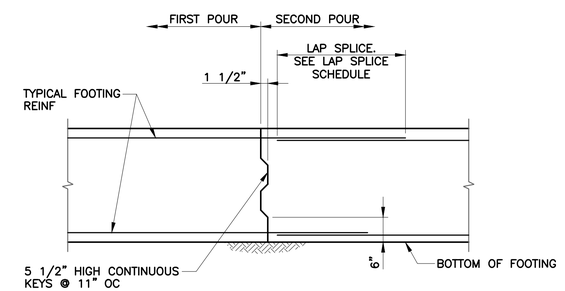
PIPE BELOW BOTTOM REINF



PIPE AT BOTTOM REINF

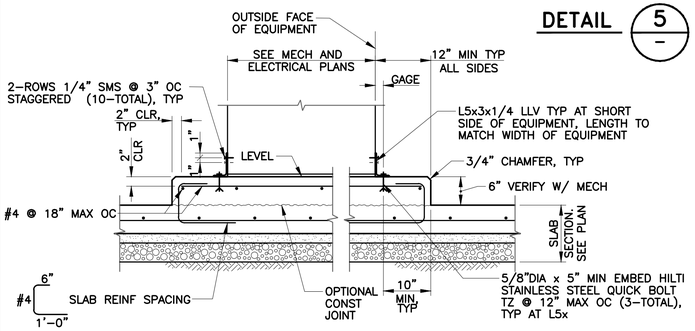
NOTES:
1. SLEEVE ID 2" LARGER THAN PIPE/CONDUIT OD OR BELL OD.
2. SEAL VOID BETWEEN PIPE/CONDUIT AND SLEEVE PER MECH/ELEC.
3. DETAIL APPLICABLE TO MAXIMUM 8" Dia SLEEVE.
4. NO FTG EXTENSION REQ'D FOR PIPE/CONDUIT DEEPER THAN 12" BELOW FTG (SLEEVE STILL REQ'D). EXCAVATE AT LEAST 6 INCHES UNDER AND 18 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"

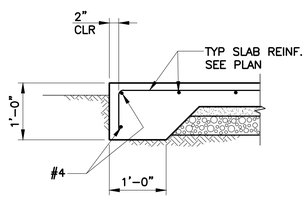


NOTE:
WHERE CONTINUOUS FOOTING IS UNDER A WALL, LOCATE CONSTRUCTION JOINT AT ℄ OF THE CLEAR OPENING WIDTH ABOVE FROM FACE OF OPENING. SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS TO ENGINEER FOR REVIEW AND APPROVAL.

DETAIL 6 — FOOTING CONSTRUCTION JOINT
SCALE: 3/4 = 1'-0"



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

DOCUMENT NUMBER: C00-S-9248-75902

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — Mavash Hashemi — No. 2639 — Exp. 12/31/24 — STRUCTURAL — STATE OF CALIFORNIA
12/2/2022
PROJECT ENGINEER DATE

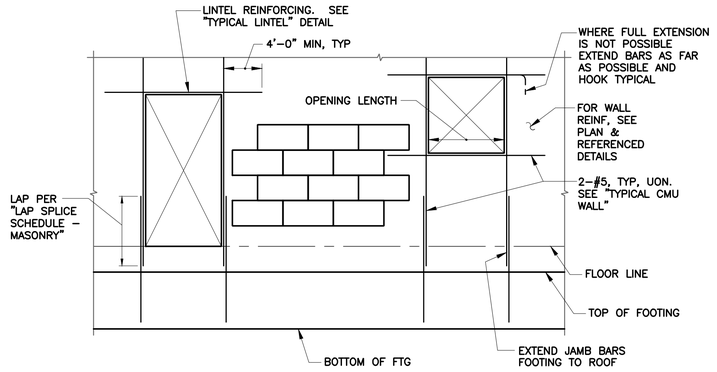
SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER DATE

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

USERNAME: OscaReyn Thu 12 Jan 2023 04:54pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\S-18



DETAIL 1/S-17 CONCRETE BLOCK WALL OPENINGS

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

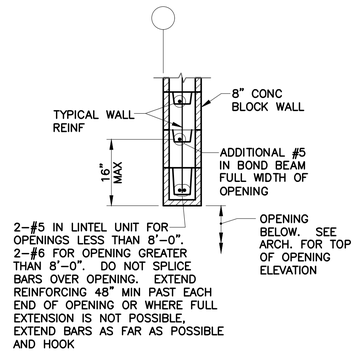
LAP SPLICE SCHEDULE - MASONRY			
BAR SIZE	CLEAR COVER = 2"	CLEAR COVER = 2.5"	CLEAR COVER ≥ 3"
#3	14"	12"	12"
#4	26"	22"	18"
#5	40"	32"	28"
#6	74"	60"	50"
#7	102"	82"	68"
#8	152"	122"	102"

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.

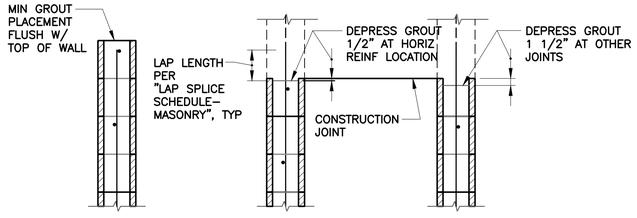
DETAIL 2/- LAP SPLICE SCHEDULE - MASONRY

NO SCALE



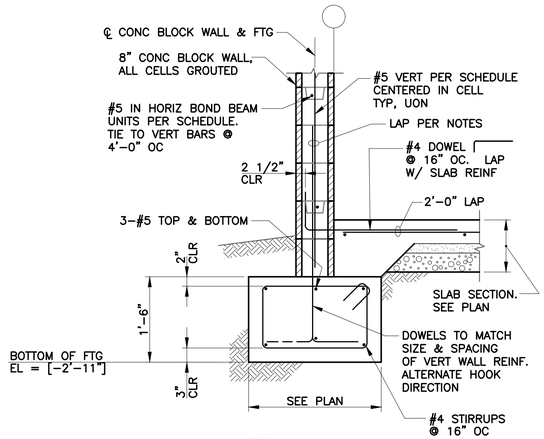
DETAIL 3/- TYPICAL LINTEL

SCALE: 3/4" = 1'-0"



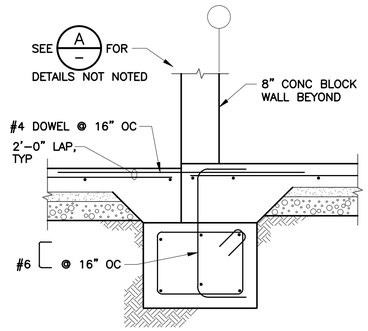
DETAIL 4/- TYPICAL CMU CONSTRUCTION JOINT

SCALE: 3/4" = 1'-0"



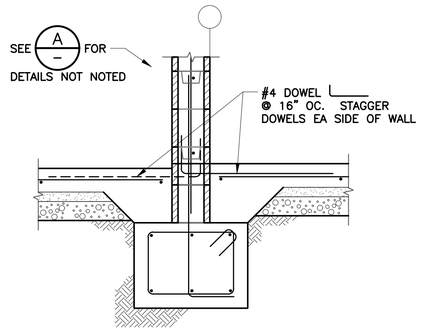
SECTION A/S-16 CMU WALL FOOTING

SCALE: 3/4" = 1'-0"



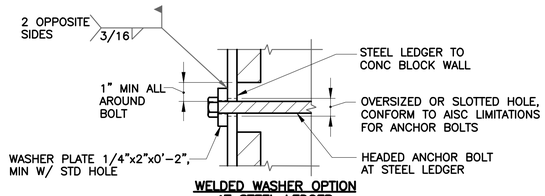
SECTION B/S-16 SLAB AT DOOR

SCALE: 3/4" = 1'-0"

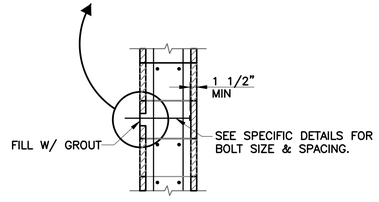


SECTION C/S-16 EXTERIOR AND INTERIOR SLABS AND WALL FOOTING

SCALE: 3/4" = 1'-0"



WELDED WASHER OPTION AT STEEL LEDGER



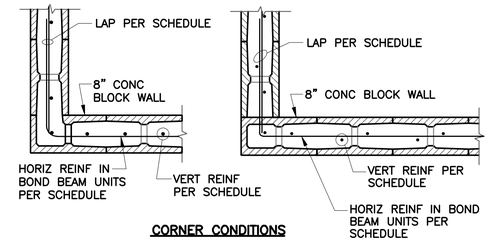
BOLT SIZE	EMBEDMENT (MIN)
1/2"ø	4"
5/8"ø	4 1/2"
3/4"ø	5"
7/8"ø	6"
1"ø	6 1/2"

NOTES:

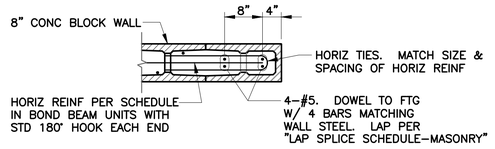
USE WELDED WASHER WHERE OVERSIZED OR SLOTTED HOLES ARE USED AT CONTRACTOR'S OPTION WHERE A STANDARD ROUND HOLE WOULD OTHERWISE BE REQUIRED.

DETAIL 5/- BOLT IN CMU WALL

SCALE: 3/4" = 1'-0"



CORNER CONDITIONS



END CONDITION

DETAIL 6/- TYPICAL CMU WALL END/INTERSECTION

SCALE: 3/4" = 1'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: COO-S-9248-75903

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 S. HICKEY
CHECKED D. DEVLIN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — Mahesh Vaish — 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 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
PROJECT NUMBER: 91864009
SHEET CODE: S-19
SHEET NUMBER: 61

USERNAME: OscaReyn Thu 12 Jan 2023 04:54pm
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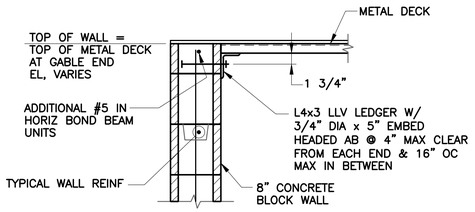
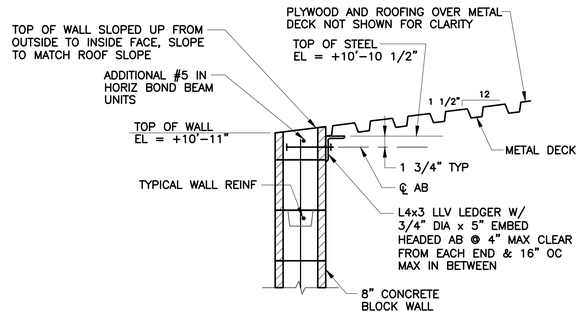
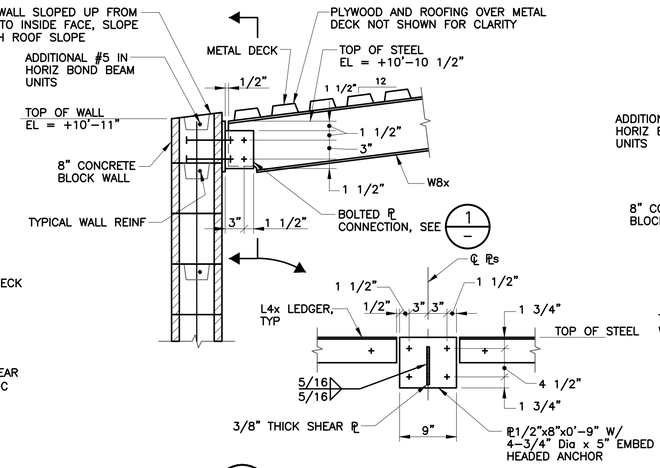


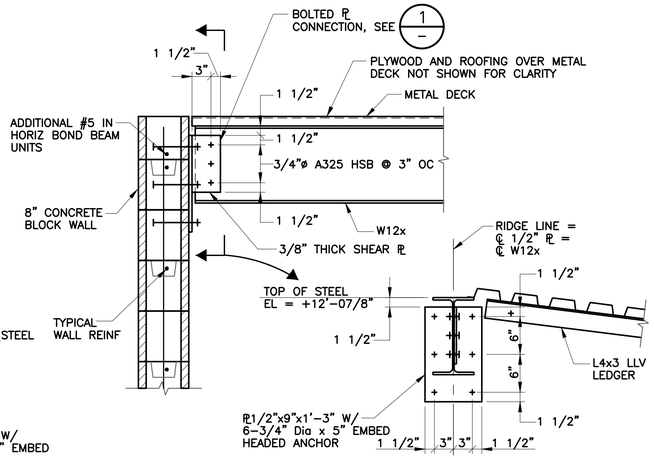
SECTION A S-16 CONNECTION
WALL PERPENDICULAR TO ROOF DECK
SCALE: 1" = 1'-0"



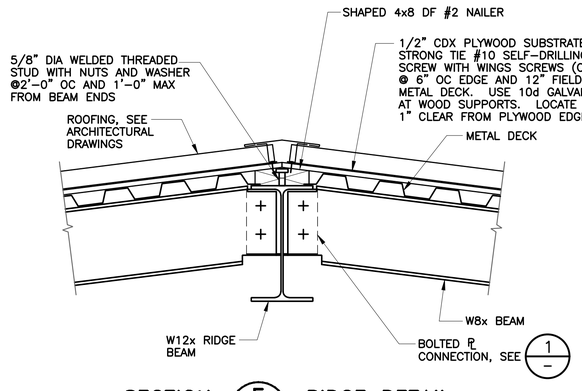
SECTION B S-16 CONNECTION
WALL PARALLEL TO ROOF DECK
SCALE: 1" = 1'-0"



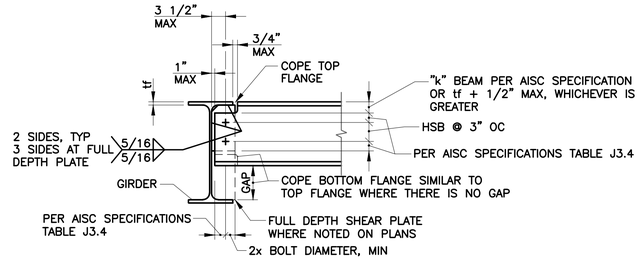
SECTION C S-16 CONNECTION
SLOPED BEAM TO WALL
SCALE: 1" = 1'-0"



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



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



BOLTED PLATE CONNECTION

BEAM SIZE	NUMBER OF BOLTS	BOLTS	SHEAR ℄ 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

DOCUMENT NUMBER: C00-S-9248-75904

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 A. ROSALES
CHECKED D. DEVLIN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/24
STATE OF CALIFORNIA
12/2/2022
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER DATE

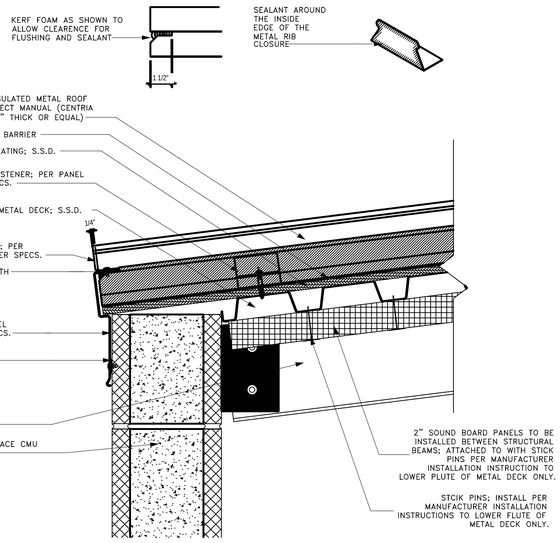
PROJECT NAME AND SHEET DESCRIPTION:
COYOTE PERCOLATION DAM REPLACEMENT
CONTROL BUILDING
TYPICAL SECTIONS AND DETAILS 3 OF 3

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

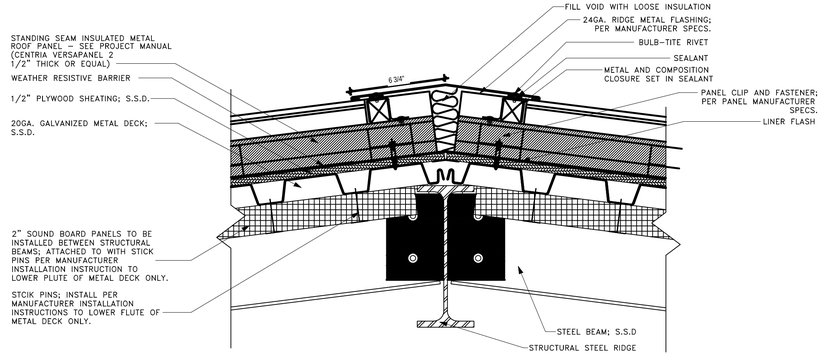
PROJECT NUMBER: 91864009
SHEET CODE: S-20
SHEET NUMBER: 62

USERNAME: OscaReyn Thu 12 Jan 2023 04:54pm
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\S-20

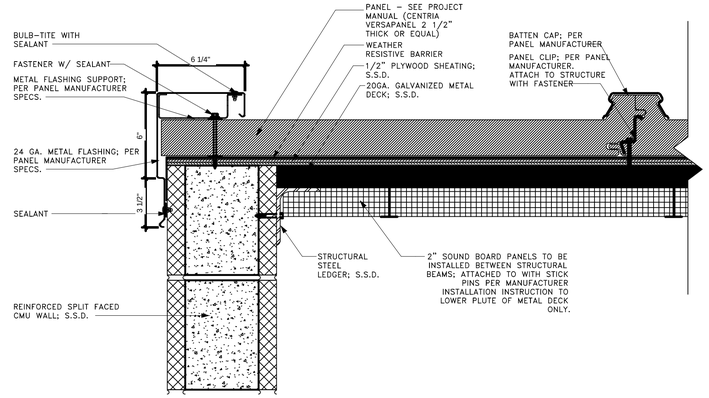
USERNAME: OscaReyn Wed 11 Jan 2023 01:47pm
FILENAME: \\srvfile1\engineering plans\Active Projects\WP-91864009\Coyote Perc Dam Replacement\SHEETS\A-01



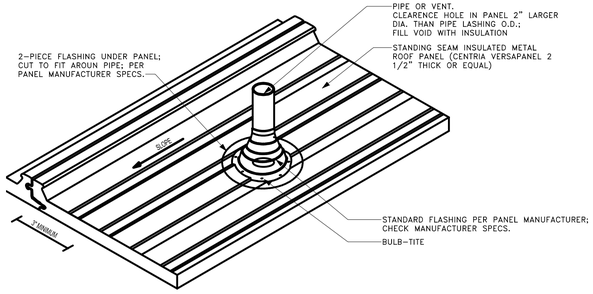
DETAIL 1 – ROOF EAVE OVER CMU WALL
SCALE:3"=1'–0"



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

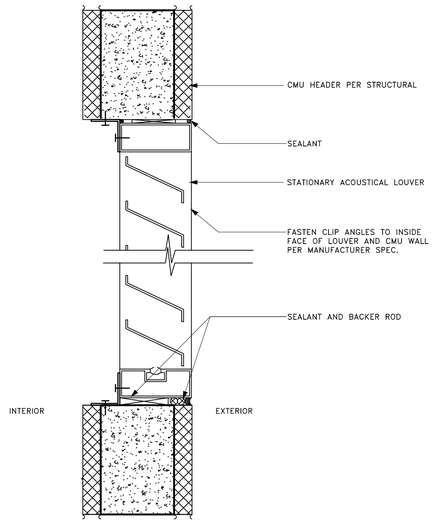


DETAIL 3 – ROOF GABLE AT CMU WALL
SCALE:3"=1'–0"

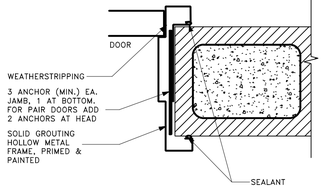


NOTE:
PIPE PENETRATIONS MUST NOT BE INSTALLED THROUGH PANEL RIB AT SIDE JOINT.
ALLOW SUFFICIENT SPACE FOR DRAINAGE AT BOTH SIDES OF ALL ROOF PENETRATIONS.
PAINT TO MATCH ROOF.

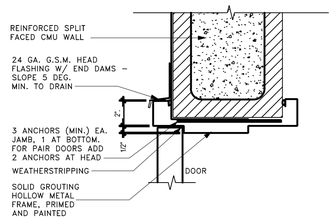
DETAIL 4 – ROOF PENETRATION
SCALE:3"=1'–0"



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

DOCUMENT NUMBER: C00–A–9248–75905

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

DAHLIN
5865 Owens Drive
Pleasanton, California 94588
408–296–5515

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

ENGINEERING CERTIFICATION
LICENSED ARCHITECT GREGOR LAWRENCE LEE NO. C 23921 REN. FEB 28, 2023 STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER DATE

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

USERNAME: OscaReyn 1/12/2023 5:58 PM
FILENAME: \\srvfile1\engineering plans\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\E-01.dwg

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

- PNL 4A — NEW UNDERGROUND CIRCUIT WITH DESTINATION INDICATED
- PNL 4A — 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

- 2 — MOTOR STARTER–NUMBER INDICATES NEMA SIZE
- MCP 7 — MOTOR CIRCUIT PROTECTOR WITH CURRENT RATING
- 15A, 1P — CIRCUIT BREAKER WITH TRIP RATING AND NUMBER OF POLES INDICATED (3–POLE UNLESS OTHERWISE NOTED)
- TRANSFORMER
- 5 — 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
- ETM — ELAPSED TIME METER
- CONDUCTOR CONNECTED
- CONDUCTOR NOT CONNECTED
- VOLTAGE SURGE SUPPRESSOR
- A, B, 3/40, 12'–0" — 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
- OR — DISCONNECT SWITCH
- $ OR S — SINGLE POLE SWITCH
- $3 OR S3 — THREE WAY SWITCH
- LOCALLY MTD STARTER OR CONTROLLER
- MV — MOTORIZED VALVE
- TB — TERMINAL BOX
- DUPLEX RECEPTACLE
- SIMPLEX RECEPTACLE
- 600V, 60A — RECEPTACLE, RATING INDICATED
- J — JUNCTION BOX
- GROUND ROD IN GROUND WELL
- NEMA 4X — INDICATES ALL MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE SUITABLE FOR OUTDOOR LOCATION OR WET, CORROSIVE ENVIRONMENT.
- 50° C AMBIENT — INDICATES ALL EQUIPMENT AND MATERIALS SHALL BE SUITABLE FOR AMBIENT TEMPERATURE OF 50° C.
- 6 — CONDUIT SCHEDULE SYMBOL, CONDUIT NUMBER INDICATED
- 5 — MATERIALS LIST SYMBOL, ITEM NUMBER INDICATED
- DB — DISTRIBUTION BLOCKS

ELECTRICAL SYMBOLS
SINGLE LINE DIAGRAMS

- M — UTILITY METERING
- GFI — 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
- RV I — 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\MP, 600 VOLT, 3 POLE, NON–FUSED, UNO
- CONTROL STATION. PUSH–BUTTON STATION OR SELECTOR SWITCH. SEE CONTROL WIRING DIAGRAMS FOR REQUIREMENTS
- SAFETY DISCONNECT, FUSED
- N S — AUTOMATIC TRANSFER SWITCH, RATING AS INDICATED.
- STANDBY GENERATOR
- 10 — MOTOR, 10 HORSEPOWER
- PM — POWER METER/MONITOR
- 12 — CONDUIT NUMBER 12. SEE CONDUIT AND WIRING SCHEDULE FOR SIZES AND QUANTITIES OF CONDUIT AND WIRES.
- GROUND
- LA — LA=LIGHTNING ARRESTER SA=SURGE ARRESTER
- SPECIAL PURPOSE RECEPTACLE, RATING AS INDICATED.
- HASH MARKS INDICATE REMOVAL OR RELOCATION
- 1 — INDICATES TO REFER TO NOTE 1 ON DRAWING

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

1. THIS DRAWING CONTAINS STANDARD SYSMBOLS AND ABBREVIATIONS. NOT ALL SYMBOLS AND ABBREVIATIONS SHOWN ARE USED ON THIS PROJECT.

DATE: JAN 2023
DESIGN: Z. ZAPIEN
DRAWN: Z. ZAPIEN
CHECKED: B. MAHER

ENGINEERING CERTIFICATION: REGISTERED PROFESSIONAL ENGINEER BRENDAN M. MAHER No. E23628 ELECTRICAL STATE OF CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT — Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
GENERAL NOTES, LEGEND, ABBREVIATIONS AND SYMBOLS

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: E–01
SHEET NUMBER: 64

DOCUMENT NUMBER: COO–E–9248–75906

USERNAME: RamaSain 1/12/2023 5:59 PM
FILENAME: \\srvfile1\engineering plans\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\E-02.dwg

SHEET NOTES:

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

SANTA CLARA COUNTY
APN 678 02 031

SCVWD PROPERTY LINE

EXIST ROCK

FLOW

SEE SHEET E-03, FOR ENLARGED SITE PLAN

EXIST PG&E PEDESTAL

NEW TRANSFORMER BY OTHERS

HH1

NEW PEDESTAL BY OTHERS

COYOTE CREEK TRAIL

EXIST ELECTRICAL LINE

EDGE OF EXISTING MAINT. RD.

MAINTENANCE RD

INSTALL NEW ELEC CONDUITS

7 8 9 10

SANTA CLARA COUNTY
APN 678 02 031

SCVWD PROPERTY LINE

HH2

MTS

CONTROL BUILDING

SEE SHEET E-05, FOR INTERIOR PLAN

SEE SHEET E-06, FOR ENLARGED SITE PLAN

FORSUM RD

NGUYEN LISA LOC AND LUONG BRIAN HUU
APN 678 54 048

SANTA CLARA COUNTY
APN 678 02 034

COYOTE CREEK TRAIL

SANTA CLARA COUNTY
APN 678 02 031

SCVWD PROPERTY LINE

SANTA CLARA COUNTY
APN 678 02 034

PLAN
SCALE: 1" = 20'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: COO-E-9248-75907

DATE: JAN 2023
DESIGN: Z. ZAPIEN
DRAWN: Z. ZAPIEN
CHECKED: B. MAHER

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER
BRENDAN M. MAHER
No. E23628
ELECTRICAL
STATE OF CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

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: E-02
SHEET NUMBER: 65

USERNAME: RamaSain 1/12/2023 5:59 PM
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GENERAL NOTES:

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

CONTRACTOR NOTES:

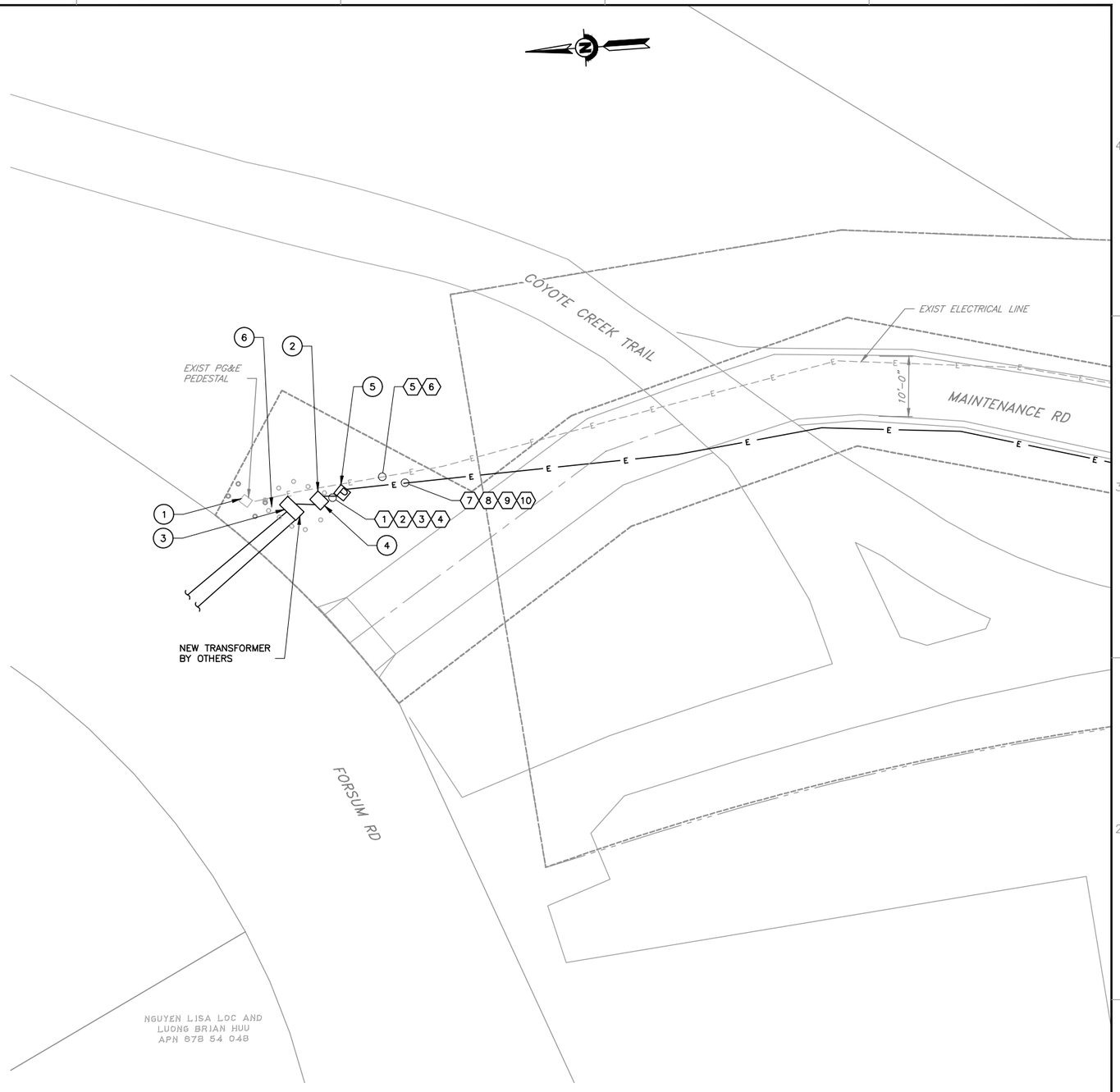
1. CONTRACTOR SHALL INTERCEPT CONDUITS FROM EXISTING SERVICE PEDESTAL AND ROUTE TO HH1 WITH PULL TAPE. EXISTING CONDUITS TO BE USED FOR SPARES

SHEET NOTES:

1. 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



PLAN
SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: COO-E-9248-75908

DATE: JAN 2023
DESIGN: Z. ZAPIEN
DRAWN: Z. ZAPIEN
CHECKED: B. MAHER

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER BRENDAN M. MAHER No. E23628 ELECTRICAL STATE OF CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

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: E-03
SHEET NUMBER: 66

ARCH D
66 OF 166

USERNAME: RamaSain 1/12/2023 6:00 PM
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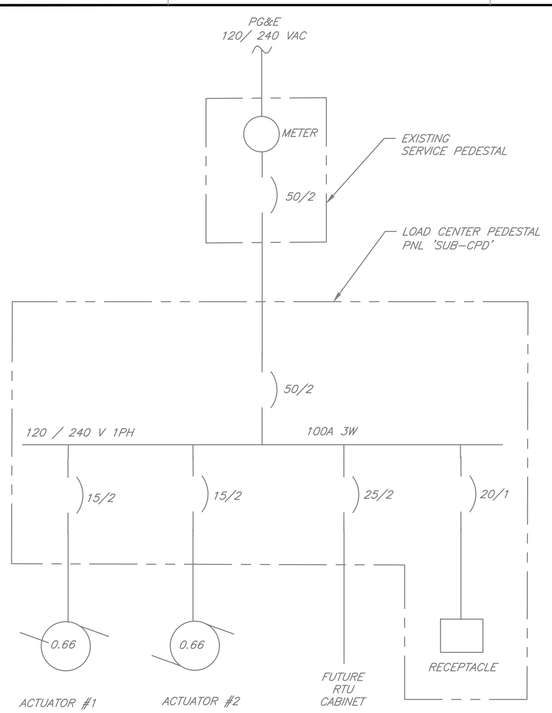
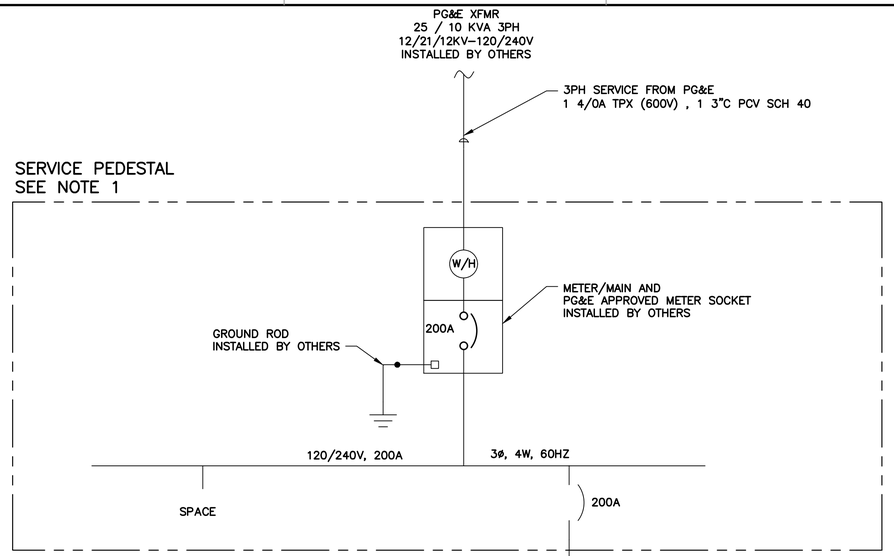


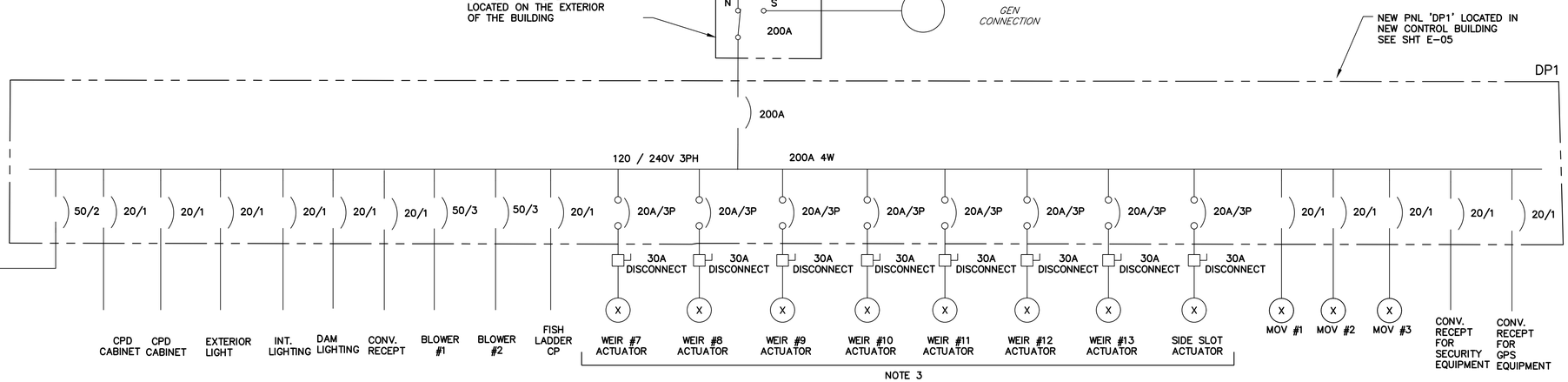
DETAIL 1 – EXIST SINGLE LINE DIAGRAM

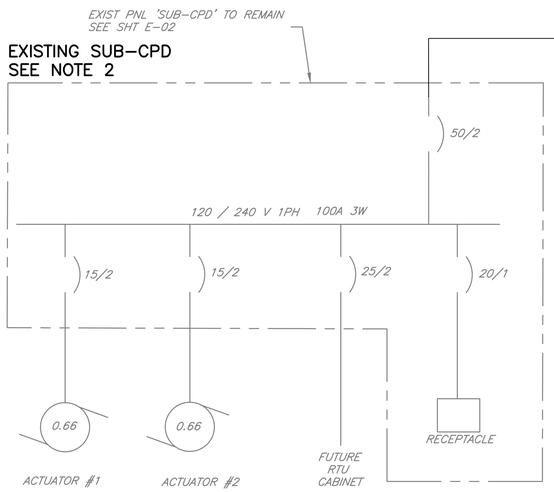
SCALE: NTS



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

DOCUMENT NUMBER: COO-E-9248-75909

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

1. REFER TO ENLARGED PLANS AND SITE PLANS FOR EQUIPMENT LOCATIONS AND DETAILED ELECTRICAL WORK

DATE: JAN 2023
DESIGN: Z. ZAPIEN
DRAWN: Z. ZAPIEN
CHECKED: B. MAHER

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER
BRENDAN M. MAHER
No. E23628
ELECTRICAL
STATE OF CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

ELECTRICAL SINGLE LINE DIAGRAM

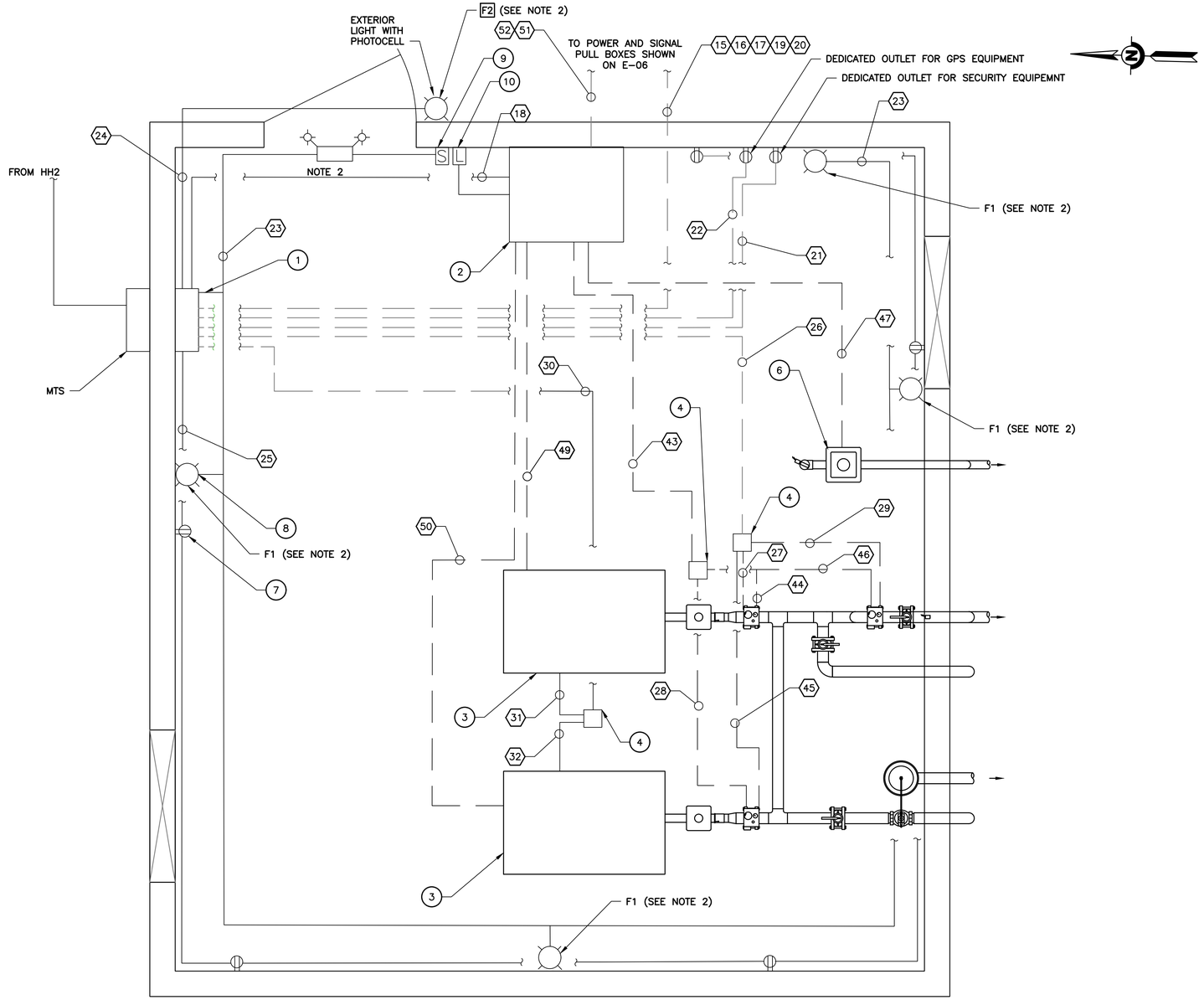
SCALE: AS SHOWN

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: E-04

SHEET NUMBER: 67



DETAIL 1/– CONTROL BUILDING ELECTRICAL PLAN

SCALE: NTS

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

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE: JAN 2023
DESIGN: Z. ZAPIEN
DRAWN: Z. ZAPIEN
CHECKED: B. MAHER

ENGINEERING CERTIFICATION: REGISTERED PROFESSIONAL ENGINEER, BRENDAN M. MAHER, No. E23628, ELECTRICAL, STATE OF CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

CONTROL BUILDING ELECTRICAL PLAN

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: E-05

SHEET NUMBER: 68

DOCUMENT NUMBER: COO-E-9248-75910

USERNAME: RamaSain 1/12/2023 6:00 PM
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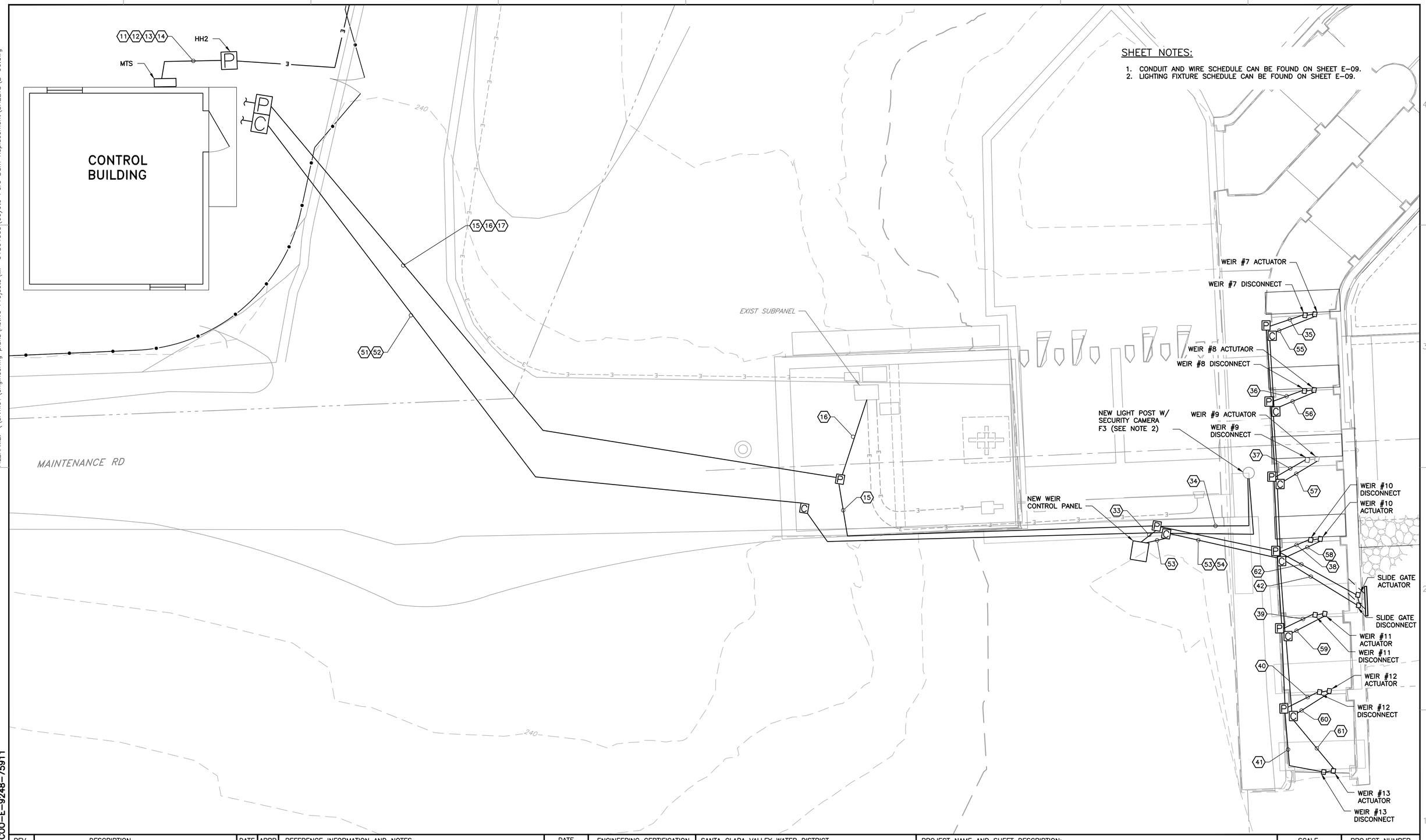
USERNAME: OscaReyn 1/12/2023 6:00 PM
FILENAME: \\srvfile1\engineering plans\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\E-06.dwg



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.

DOCUMENT NUMBER: COO-E-9248-75911

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE: JAN 2023
DESIGN: Z. ZAPIEN
DRAWN: Z. ZAPIEN
CHECKED: B. MAHER

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER
BRENDAN M. MAHER
No. E23628
ELECTRICAL
STATE OF CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

CONTROL BUILDING ELECTRICAL PLAN – ENLARGED

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: E-06

SHEET NUMBER: 69

USERNAME: RamaSain 1/12/2023 6:01 PM
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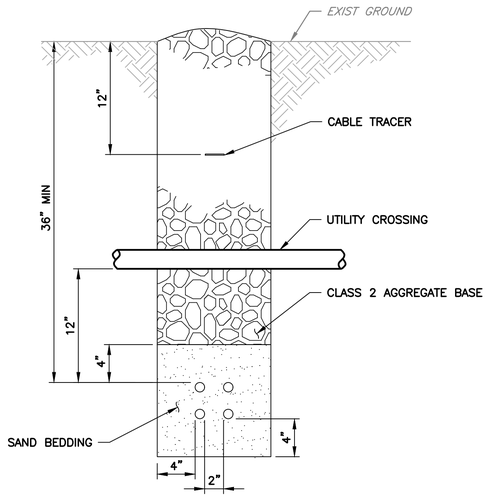
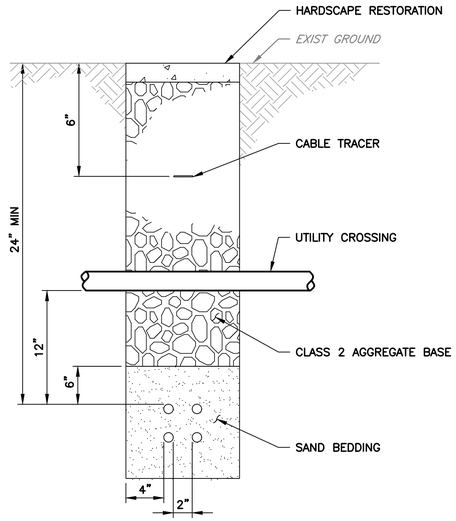


DETAIL 1 / E-2 CONDUIT SECTION IN UNPAVED AREAS
SCALE: NTS



DETAIL 2 / E-2 CONDUIT SECTION IN PAVED AREAS
SCALE: NTS

UNDERGROUND INFRASTUCTURE MINIMUM JOINT TRENCH SEPARATION AND CLEARANCE REQUIREMENTS (INCHES) (SEE NOTE 1)

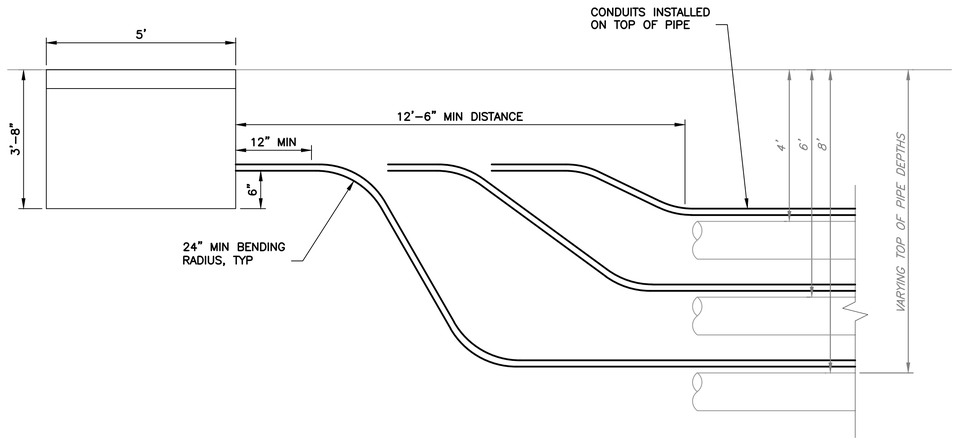
	P	S	T	C	SL	FO	W (SEE NOTE 2)	G
P	–	12	12	12	6	12	60	12
S	12	–	12	12	6	2	60	12
T	12	12	–	2	12	2	60	12
C	12	12	2	–	12	2	60	12
SL	6	6	12	12	–	12	60	12
FO	12	2	2	2	12	–	60	12
W	60	60	60	60	60	60	–	60
G	12	12	12	12	12	60	60	–

P – PRIMARY POWER (OVER 600 VOLTS, ELECTRIC COMPANY)
S – SECONDARY POWER (LESS THAN 600 VOLTS)
T – TELEPHONE
C – CATV
SL – STREET LIGHT
FO – FIBER OPTIC
G – GAS
W – WET UTILITIES BY OTHER UTILITIES (WATER AND SEWER)

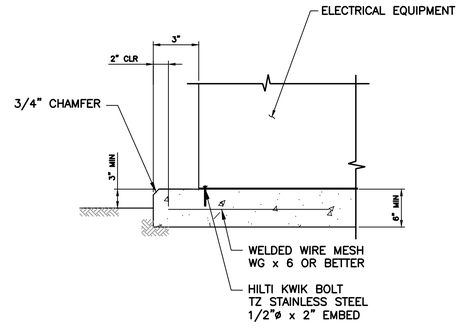
NOTES:

1. ABOVE TABLE SHOWS THE MINIMUM SPACING REQUIREMENTS FOR UNDERGROUND UTILITIES IN A COMMON TRENCH OR PARALLEL TRENCH.
2. WET UTILITIES SHALL BE INSTALLED IN A SEPARATE TRENCH WITH THE SPACING REQUIREMENT SHOWN.
3. DETAIL 1 AND DETAIL 2 SHOW CONDUIT INSTALLATION WHERE POWER AND LOW VOLTAGE CONDUITS ARE SEPARATED FROM WET UTILITIES.
4. REFERENCE LATEST VERSION OF PG&E GREENBOOK REQUIREMENTS

DETAIL 3 / – MINIMUM JOINT TRENCH SEPARATION AND CLEARANCE
SCALE: NTS



DETAIL 4 / – UNDERGROUND CONDUIT TRANSITION AND BENDING RADIUS
SCALE: 1/2" = 1'-0"



DETAIL 5 / – ELECTRICAL EQUIPMENT PAD MOUNTED ON DIRT
SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: COO-E-9248-75912

DATE: JAN 2023
DESIGN: Z. ZAPIEN
DRAWN: Z. ZAPIEN
CHECKED: B. MAHER

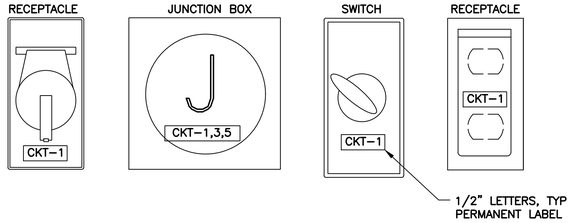
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER
BRENDAN M. MAHER
No. E23628
ELECTRICAL
STATE OF CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

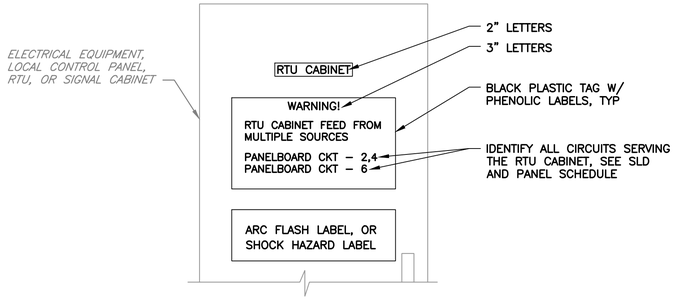
PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
ELECTRICAL DETAILS, CONDUIT INSTALLATION & UNDERGROUND DETAILS

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: E-07
SHEET NUMBER: 70

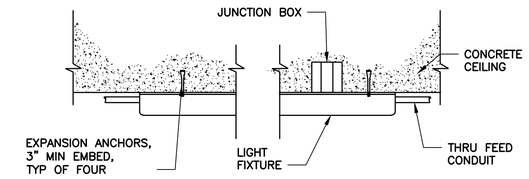
USERNAME: Zafakhan 1/12/2023 6:01 PM
FILENAME: \\srvfile1\engineering plans\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\E-08.dwg



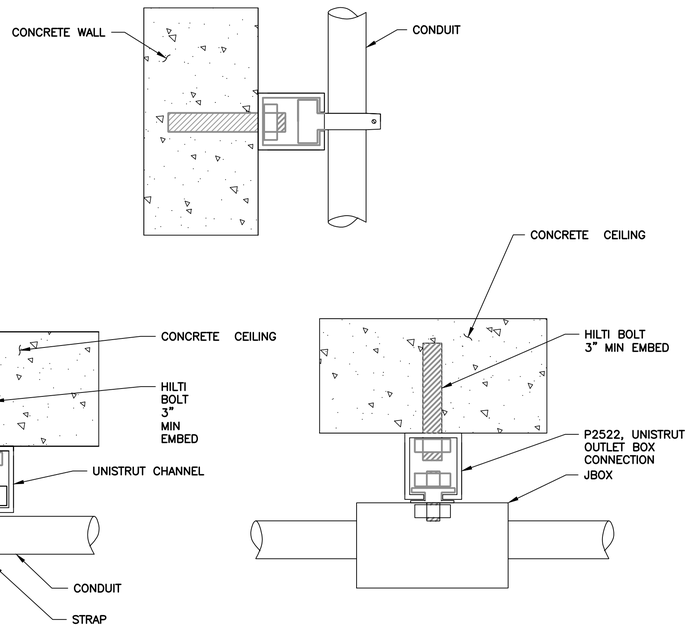
DETAIL 6 – WIRING DEVICES SOURCE LABELING
SCALE: NTS



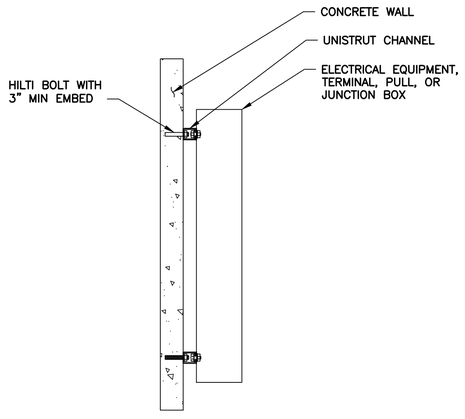
DETAIL 7 – RTU CABINET SOURCE LABELING
SCALE: NTS



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

DOCUMENT NUMBER: C00-E-9248-75913

DATE: JAN 2023
DESIGN: Z. ZAPIEN
DRAWN: Z. ZAPIEN
CHECKED: B. MAHER

ENGINEERING CERTIFICATION: REGISTERED PROFESSIONAL ENGINEER, BRENDAN M. MAHER, No. E23628, ELECTRICAL, STATE OF CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

ELECTRICAL DETAILS, MOUNTING, CONNECTION AND LABELING 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: E-08

SHEET NUMBER: 71

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 MOVS	NEW, UNDERGROUND TO JUNCTION BOX NEAR MOVS
27	PX27	3/4"	RI	P018	J BOX NEAR MOVS	MOV1	NEW, FROM THE JBOX TO EACH MOV
28	PX28	3/4"	RI	P019	J BOX NEAR MOVS	MOV2	NEW, FROM THE JBOX TO EACH MOV
29	PX29	3/4"	RI	P020	J BOX NEAR MOVS	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
43	CX1	1"	PVC	C013, C014, C015	CPD	J BOX NEAR MOVS	NEW, UNDERGROUND FROM CPD TO J BOX NEAR MOVS
44	CX2	3/4"	RI	C013	CPD	MOV1	NEW, FROM JBOX NEAR MOVS TO MOV1
45	CX3	3/4"	RI	C014	CPD	MOV2	NEW, FROM JBOX NEAR MOVS TO MOV2
46	CX4	3/4"	RI	C015	CPD	MOV3	NEW, FROM JBOX NEAR MOVS TO MOV3
47	CX5	3/4"	RI	C016	CPD	PRESSURE SENSOR #1	NEW
48	CX6	3/4"	RI	C017	CPD	PRESSURE SENSOR #2	NEW
49	CX7	1"	PVD	C018	CPD	BLOWER #1	NEW, UNDERGROUND FROM CPD TO BLOWER #1
50	CX8	1"	PVD	C019	CPD	BLOWER #2	NEW, UNDERGROUND FROM CPD TO BLOWER #2
51	CX9	2"	PVC	C009, C010, C011, C012	CPD	"C" PULL BOX	NEW
52	CX10	2"	PVC	–	CPD	"C" PULL BOX	NEW, PULL ROPE
53	CX11	2"	RI	C001, C002, C003, C004, C005, C006, C007, C008	WEIR CONTROL PANEL	J BOX NEAR WEIRS	NEW
54	CX12	2"	RI		WEIR CONTROL PANEL	J BOX NEAR WEIRS	NEW, PULL ROPE
55	CX13	3/4"	RI	C001	J BOX NEAR WEIRS	WEIR #7 MOV	NEW
56	CX14	3/4"	RI	C002	J BOX NEAR WEIRS	WEIR #8 MOV	NEW
57	CX15	3/4"	RI	C003	J BOX NEAR WEIRS	WEIR #9 MOV	NEW
58	CX16	3/4"	RI	C004	J BOX NEAR WEIRS	WEIR #10 MOV	NEW
59	CX17	3/4"	RI	C005	J BOX NEAR WEIRS	WEIR #11 MOV	NEW
60	CX18	3/4"	RI	C006	J BOX NEAR WEIRS	WEIR #12 MOV	NEW
61	CX19	3/4"	RI	C007	J BOX NEAR WEIRS	WEIR #13 MOV	NEW
62	CX20	3/4"	RI	C008	J BOX NEAR WEIRS	SIDE SLOW MOV	NEW
63	CX21	3/4"	RI	C011	J BOX NEAR WEIRS	LEVEL TRANSMITTER	NEW
64	CX22	3/4"	RI	C012	J BOX NEAR WEIRS	LEVEL TRANSMITTER	NEW
65	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 FICTURE 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-S80R10 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

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE: JAN 2023
DESIGN: K. TRAN
DRAWN: K. TRAN
CHECKED: B. MAHER

ENGINEERING CERTIFICATION: REGISTERED PROFESSIONAL ENGINEER, BRENDAN M. MAHER, No. E23628, ELECTRICAL, STATE OF CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

CONDUIT, WIRE, AND LIGHTING SCHEDULE

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: E-09

SHEET NUMBER: 72

DOCUMENT NUMBER: COO-E-9248-75914

USERNAME: RamaSain 1/12/2023 6:01 PM
FILENAME: \\snfile1\engineering plans\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\E-09.dwg

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		DIFFERIENTIAL		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
N					ON OR OPERATE (1)
O			ORIFICE, RESTRICTION		OVERLOAD (1)
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
- PRV — PRESSURE RELIEF VALVE

EQUIPMENT SYMBOLS

- PUMP
- BLOWER
- M — MOTOR
- AIR FILTER

PRIMARY ELEMENT SYMBOLS

- FE / M — MAGNETIC FLOWMETER
- FE — ULTRASONIC FLOWMETER
- FIT — FLOW INDICATING TRANSMITTER
- PI — PRESSURE GAUGE
- PIT — PRESSURE INDICATING TRANSMITTER
- TS — TEMPERATURE SWITCH

INSTRUMENT LINE SYMBOLS

- ELECTRICAL SIGNAL
- 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

USERNAME: OscaReyn 1/12/2023 4:56 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\I-01.dwg

DOCUMENT NUMBER: COO-I-9248-75915

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION: REGISTERED PROFESSIONAL ENGINEER — PING-SONG BEN CHEN — No. C57148 — CONTROL SYSTEMS — STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT — Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
P&ID LEGENDS AND 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: I-01
SHEET NUMBER: 73

USERNAME: Tungtran 1/12/2023 4:56 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\I-02.dwg

CONDUCTORS

- CONDUCTOR
- CONDUCTORS NOT CONNECTED
- CONDUCTORS CONNECTED
- CONDUCTOR SHIELD
- FIELD CONDUCTOR
- EARTH GROUND
- CHASSIS GROUND
- SHIELD GROUND (ISOLATED IF REQUIRED BY SPEC) — S

TERMINALS

- 2 — FEED THROUGH TERMINAL BLOCK
- 1 — KNIFE DISCONNECT TERMINAL BLOCK
- #### — EXTERNALLY LOCATED DEVICE TERMINAL BLOCK
- FU _A — FUSE BLOCK

RELAY COILS

- CR — DEVICE ID; CONTROL RELAY WITH TERMINALS
- MS — MOTOR STARTER
- TD — SET @ XXSEC — ELECTRIC TIMER WITH ADJUSTABLE TIMING RANGE
- SV — SOLENOID
- OL — THERMAL OVERLOAD

SWITCHES

- DESC1 / DESC2 / PB — DESCRIPTION TEXT (EXAMPLE: LAMP TEST); NORMALLY OPEN; NEMA FORM "X" CONTACT; PUSHBUTTON
- DESC1 / DESC2 / PB — NORMALLY CLOSED; NEMA FORM "Y" CONTACT; PUSHBUTTON
- DESC1 / DESC2 / PB — NORMALLY CLOSED; MUSHROOM HEAD; E-STOP
- MECHANICAL CONNECTION
- DESC1 / DESC2 / SS / POS1 POS2 / 0X — TWO POSITION SELECTOR SWITCH SHOWN IN 'POS1'; CONTACT MADE IN 'POS2'
- DESC1 / DESC2 / SS / POS2 / POS1 POS3 / X00 / 00X — THREE POSITION SELECTOR SWITCH SHOWN IN 'POS1' POSITION; NEMA FORM "Z" CONTACTS; CONTACT MADE IN 'POS3'
- DESC1 / DESC2 / SS / POS2 POS3 / POS1 POS4 / X000 / 00X0 — FOUR POSITION SELECTOR SWITCH SHOWN IN 'POS1' POSITION; CONTACT MADE IN 'POS3'
- POS2 / POS1 POS3 / 0X0 / X00 / 00X — THREE POSITION SELECTOR SPRING RETURN TO POS2

LIMIT SWITCHES

- DESC1 / DESC2 / LS — NORMALLY OPEN
- DESC1 / DESC2 / LS — NORMALLY CLOSED

LIMIT SWITCHES (CONTINUED)

- DESC1 / DESC2 / LS — NORMALLY OPEN HELD CLOSED
- DESC1 / DESC2 / LS — NORMALLY CLOSED HELD OPEN

PROCESS SWITCHES

- DESC1 / DESC2 / WS — TORQUE SWITCH; NORMALLY OPEN; CLOSE ON INCREASE TORQUE
- DESC1 / DESC2 / WS — TORQUE SWITCH; NORMALLY CLOSED; OPEN ON INCREASE TORQUE
- DESC1 / DESC2 / LS — LIQUID LEVEL SWITCH; NORMALLY OPEN; CLOSE ON RISE
- DESC1 / DESC2 / LS — LIQUID LEVEL SWITCH; NORMALLY CLOSED; OPEN ON RISE
- DESC1 / DESC2 / FS — FLOW SWITCH; NORMALLY OPEN; CLOSE ON INCREASE FLOW
- DESC1 / DESC2 / FS — FLOW SWITCH; NORMALLY CLOSED; OPEN ON INCREASE FLOW
- DESC1 / DESC2 / PS — PRESSURE SWITCH; NORMALLY OPEN; CLOSE ON RISE
- DESC1 / DESC2 / PS — PRESSURE SWITCH; NORMALLY CLOSED; OPEN ON RISE
- DESC1 / DESC2 / TS — TEMPERATURE SWITCH; NORMALLY OPEN; CLOSE ON RISE
- DESC1 / DESC2 / TS — TEMPERATURE SWITCH; NORMALLY CLOSED; OPEN ON RISE

PILOT LIGHTS

- PL / A — PILOT LIGHT; COLOR: AMBER

COLOR CODES: A-AMBER; W-WHITE; R-RED; B-BLUE; G-GREEN; Y-YELLOW

PILOT LIGHTS (CONTINUED)

- PL / R — PUSH TO TEST; PILOT LIGHT; COLOR: RED

COIL CONTACTS

- CR — NORMALLY OPEN CONTACT; NEMA FORM "A" CONTACT
- CR — NORMALLY CLOSED CONTACT; NEMA FORM "B" CONTACT
- CR / CR — NORMALLY OPEN WITH NORMALLY CLOSED CONTACT; NEMA FORM "C" CONTACTS
- CR — NORMALLY OPEN CONTACT; NEMA FORM "A" CONTACT; WITH TERMINALS
- CR — NORMALLY CLOSED CONTACT; NEMA FORM "B" CONTACT; WITH TERMINALS
- TD — NORMALLY OPEN CONTACT; ON DELAY
- TD — NORMALLY CLOSED CONTACT; ON DELAY
- TD — NORMALLY OPEN CONTACT; OFF DELAY
- TD — NORMALLY CLOSED CONTACT; OFF DELAY
- LIGHT EMITTING DIODE
- PHOTO RECEPTIVE DIODE

MISCELLANEOUS

- CB / ##AMP — CIRCUIT BREAKER WITH AMPERAGE
- FU / AMP — FUSE WITH AMPERAGE
- AH — AUDIBLE DEVICE
- ETM — ELAPSED TIME METER
- R / 250 OHMS — RESISTOR 250 OHM
- D — RECTIFIER, DIODE
- C — CAPACITOR, ELECT.
- H1 H3 H2 H4 / X1 X2 — XF; 480V PRI/120V SEC; KVA; TRANSFORMER SECONDARY VOLTAGE AND RATING INDICATED AS APPLICABLE

LINE REFERENCING KEY CODE

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

EXAMPLE: E-101-02
- LINE NUMBER
- SHEET CODE NUMBER

FORM "A" OR "X" CONTACT: E-XXX-XX

FORM "B" OR "Y" CONTACT: E-XXX-XX

FORM "C" OR "Z" CONTACTS: E-XXX-XX, E-XXX-XX

PLC I/O POINT

- X / X / X — RACK | SLOT | CHNL; I/O ADDRESS — AI — PLC ANALOG INPUT POINT
- X — RACK | SLOT | CHNL; I/O ADDRESS — DI — PLC DIGITAL INPUT POINT
- X — DO — RACK | SLOT | CHNL; I/O ADDRESS — PLC DIGITAL OUTPUT POINT
- TERMINAL NUMBER

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: COO-I-9248-75916

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — WING-SONG BEN CHEN — No. CS7148 — CONTROL SYSTEMS — STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
CONTROL WIRING DIAGRAM STANDARD SYMBOLS

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-02
SHEET NUMBER: 74

USERNAME: Tungtran 1/12/2023 9:07 PM
FILENAME: \\srvfile1\engineering plans\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\I-03.dwg

COYOTE PERCOLATION DAM CONTROL PANEL CABINET
CP – CPD

OIT

BLOWERS LEAD/LAG: YC 900

TYPICAL OF 2: B–1 & B–2 LOOPS 901 & 902: START MD 901; RUNNING MN 901; AUTO YN 901; FAIL YA 901

TYPICAL OF 3: MOV–1, MOV–2, MOV–3 LOOPS 401, 402, 403: POSITION ZI 401; CLOSED ZB 401; OPEN ZD 401; CLOSE COMD VB 401; OPEN COMD VD 401; IN AUTO YN 401

INFLATION START/STOP: YC 900A

DEFLATION START/STOP: YC 900B

RUBBER DAM AIR PRESSURE: PI 101 — HH, H, L, LL

DAM AIR PRESSURE CONTROL MODE: PC 100 — AUTO / OFF

RUBBER DAM AIR PRESSURE: PI 100 — HH, H, L, LL

DAM WATER LEVEL: LI 200 — HH, H

DAM WATER LEVEL: LI 201 — HH, H

PLC

TYPICAL OF 2: B–1 & B–2 LOOPS 901 & 902: START MD 901; RUNNING MN 901; AUTO YN 901

TYPICAL OF 2: MOV–1 & MOV–2 LOOPS 401 & 402: POS ZI 401; CLOSE ZB 401; OPEN ZD 401; CLOSE VB 401; OPEN VD 401; AUTO YN 401

POS ZI 403; CLOSE ZB 403; OPEN ZD 403; OPEN VD 403; CLOSE VB 403; AUTO YN 403

JA 800 — ON/OFF JS 800 — MAIN POWER

EA 800 — AC POWER FAIL JY 800

POWER SUPPLY ALARM EY 800

RUNNING MLN 901; HOA HS 901

T 5001 — CABINET TEMP TE 5001

T 5002 — BATTERY TEMP TE 5002

V 5002 — BATTERY VOLTAGE EY 5002

OPEN/CLS/AUTO HS 401

OPEN/CLS/AUTO HS 403

YA 600 — CONTROL ROOM DOOR OPEN YS 600

PI 101

PC 100 — OFF/AUTO HS 100 — RUBBER DAM AIR PRESSURE CONTROL

PI 100

LI 200

LI 201

ZT 401; ZSB 401; ZSD 401

LOC/REM HS 401; OPEN/CLOSE HMS 401

ZT 403; ZSB 403; ZSD 403

LR HS 403; OSC HMS 403

MOV–3 — EXHAUST

PG 101; PT 101

PRV

BLOWER B–1

MOV–1

V–1 NC

MANUAL BYPASS EMERGENCY EXHAUST

V–3 NO

ZT 402; ZSB 402; ZSD 402

LOC/REM HS 402; OPEN/CLOSE HMS 402

BLOWER B–2

MOV–2

V–2 NO

FLOAT VALVE MECHANICAL DEFLATION SYSTEM — EXHAUST

WATER LEVEL SENSING PIPE

BLOWER PACKAGE SYSTEM

PG 100; PT 100

V–4 NO

LT 200; LT 201

PRESSURE SENSING PIPE

AIR IN/OUT

RUBBER DAM

CONDENSATE DRAIN

	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

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES
1. ALL INSTRUMENT TAG NUMBERS FOR RUBBER DAM SHALL BE PREFIXED BY "CPD". A COMPLETE INSTRUMENT TAG SHALL BE LIKE "CPD–HS–100".
2. PLC & OIT ARE MOUNTED IN THE CONTROL PANEL CP–CPD.
3. 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
REGISTERED PROFESSIONAL ENGINEER — DING-SONG BEN CHEN — No. C57148 — CONTROL SYSTEMS — STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

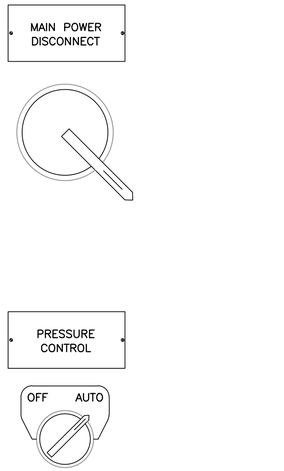
PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
PERCOLATION DAM P&ID

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

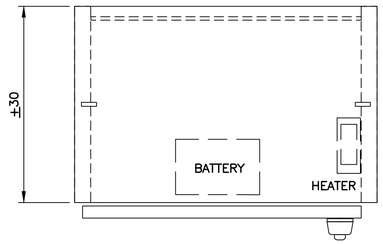
PROJECT NUMBER: 91864009
SHEET CODE: I–03
SHEET NUMBER: 75

DOCUMENT NUMBER: COO–I–9248–75917

USERNAME: OscaReyn 1/12/2023 4:57 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\I-04.dwg



SWITCHES & LIGHTS

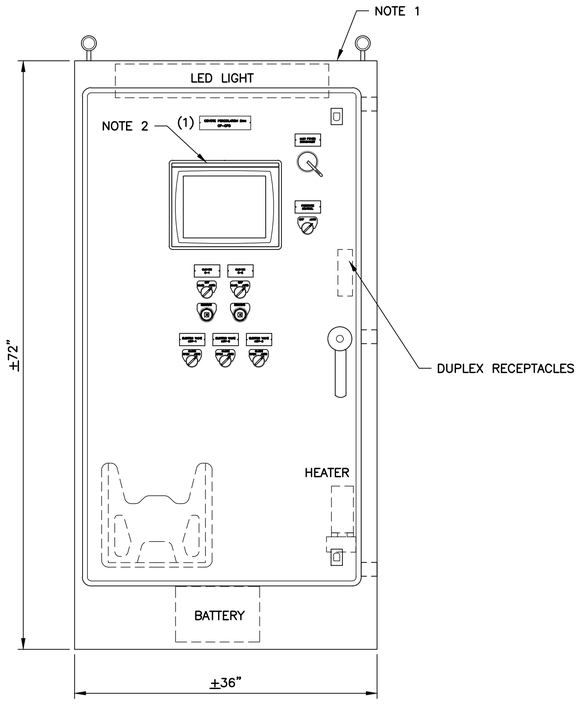


TOP VIEW

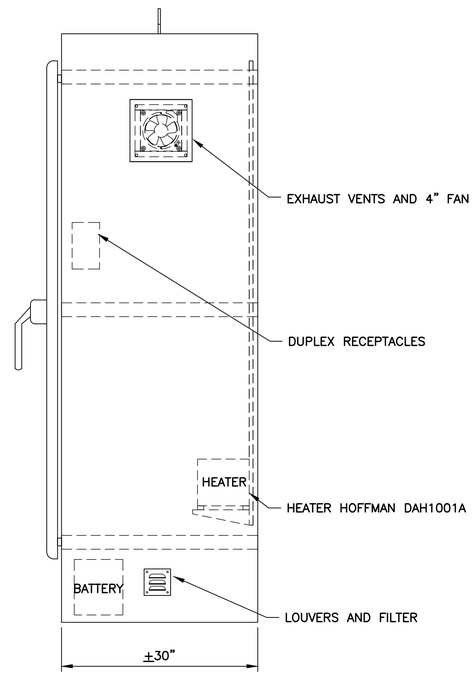
NAMEPLATE SCHEDULE			
TAG	LINE 1	LINE 2	SIZE
1	COYOTE PERCOLATION DAM	CP-CPD	2" x 8"

NOTES:

1. HOFFMAN A723630SSFSN4 72"H x 36"W x 30"D FREE-STAND NEMA-3R ENCLOSURE. INCLUDE A72P36F1 BACKPANEL.
2. OPERATOR INTERFACE (OIT)
3. 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.



DOOR LAYOUT
FRONT VIEW



SIDE VIEW

DOCUMENT NUMBER: C00-I-9248-75918

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — BING-SONG BEN CHEN — No. C57148 — CONTROL SYSTEMS — STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
CPD CONTROL PANEL ENCLOSURE 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: I-04
SHEET NUMBER: 76

USERNAME: OscaReyn 1/12/2023 4:57 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\I-05.dwg

DOCUMENT NUMBER: COO-I-9248-75919

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER
BING-SONG BEN CHEN
No. C57148
CONTROL SYSTEMS
STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

*CPD CONTROL PANEL BACK 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: I-05

SHEET NUMBER: 77

USERNAME: OscaReyn 1/12/2023 4:57 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\I-06.dwg

DOCUMENT NUMBER: COO-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

REGISTERED PROFESSIONAL ENGINEER
BING-SONG BEN CHEN
No. C57148
CONTROL SYSTEMS
STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

*CPD CONTROL PANEL PLC DETAIL LAYOUT & CABLE CONNECTIONS

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-06

SHEET NUMBER: 78

RTU CONTROL PANEL

USERNAME: OscaReyn 1/12/2023 4:57 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\I-07.dwg

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: COO-I-9248-75921

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER
BING-SONG BEN CHEN
No. C57148
CONTROL SYSTEMS
STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

*CPD CONTROL PANEL 120 VAC CONTROL WIRING

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

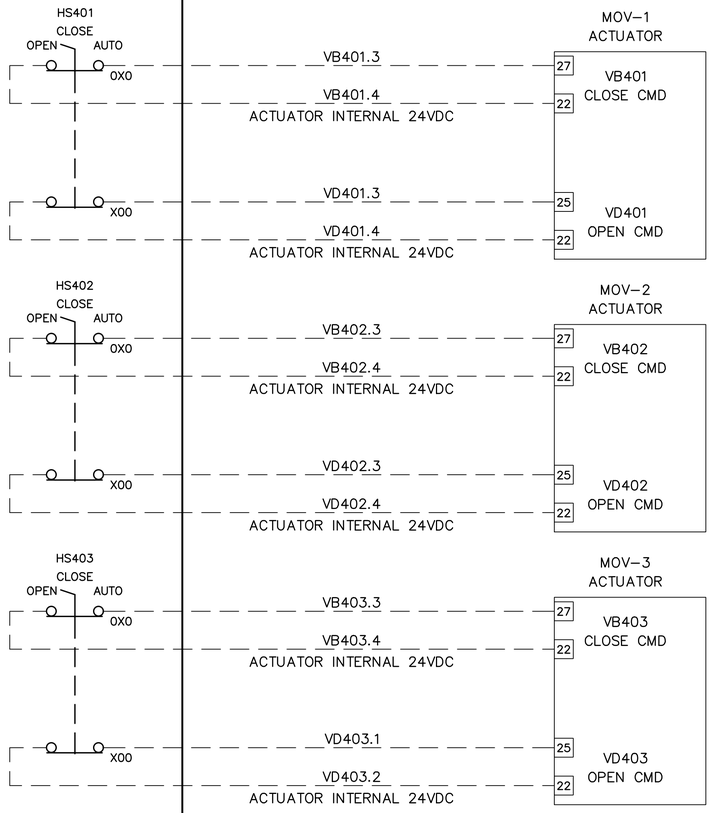
SHEET CODE: I-07

SHEET NUMBER: 79

USERNAME: OscaReyn 1/12/2023 4:57 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\I-08.dwg

RTU CONTROL PANEL

FIELD OR AS NOTED



REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

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.

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER
PING-SONG BEN CHEN
No. CS7148
CONTROL SYSTEMS
STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

CPD CONTROL PANEL 24 VDC CONTROL WIRING

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-08

SHEET NUMBER: 80

DOCUMENT NUMBER: COO-I-9248-75922

RTU CONTROL PANEL

USERNAME: OscaReyn 1/12/2023 4:58 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\I-09.dwg

DOCUMENT NUMBER: COO-I-9248-75923

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER
JING-SONG BEN CHEN
No. C57148
CONTROL SYSTEMS
STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

*CPD CONTROL PANEL COMMON
POWER CONTROL WIRING

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-09

SHEET NUMBER: 81

FIELD OR AS NOTED	RTU CONTROL PANEL

DAM AIR PRESSURE — PT100 (+) PI100 (+), PT100 (−) PI100 (−) — ANALOG INPUT TO PLC. PLC TO BE FURNISHED AND PROGRAMMED BY OWNER

AIR IN/OUT PRESSURE — PT101 (+) PI101 (+), PT101 (−) PI101 (−) — ANALOG INPUT TO PLC. PLC TO BE FURNISHED AND PROGRAMMED BY OWNER

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

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.

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — BING-SONG BEN CHEN — No. C57148 — CONTROL SYSTEMS — STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

CPD CONTROL PANEL SLOT 2 – ANALOG INPUT MODULE CONTROL WIRING

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-10
SHEET NUMBER: 82

DOCUMENT NUMBER: COO-I-9248-75924

USERNAME: OscaReyn 1/12/2023 4:58 PM
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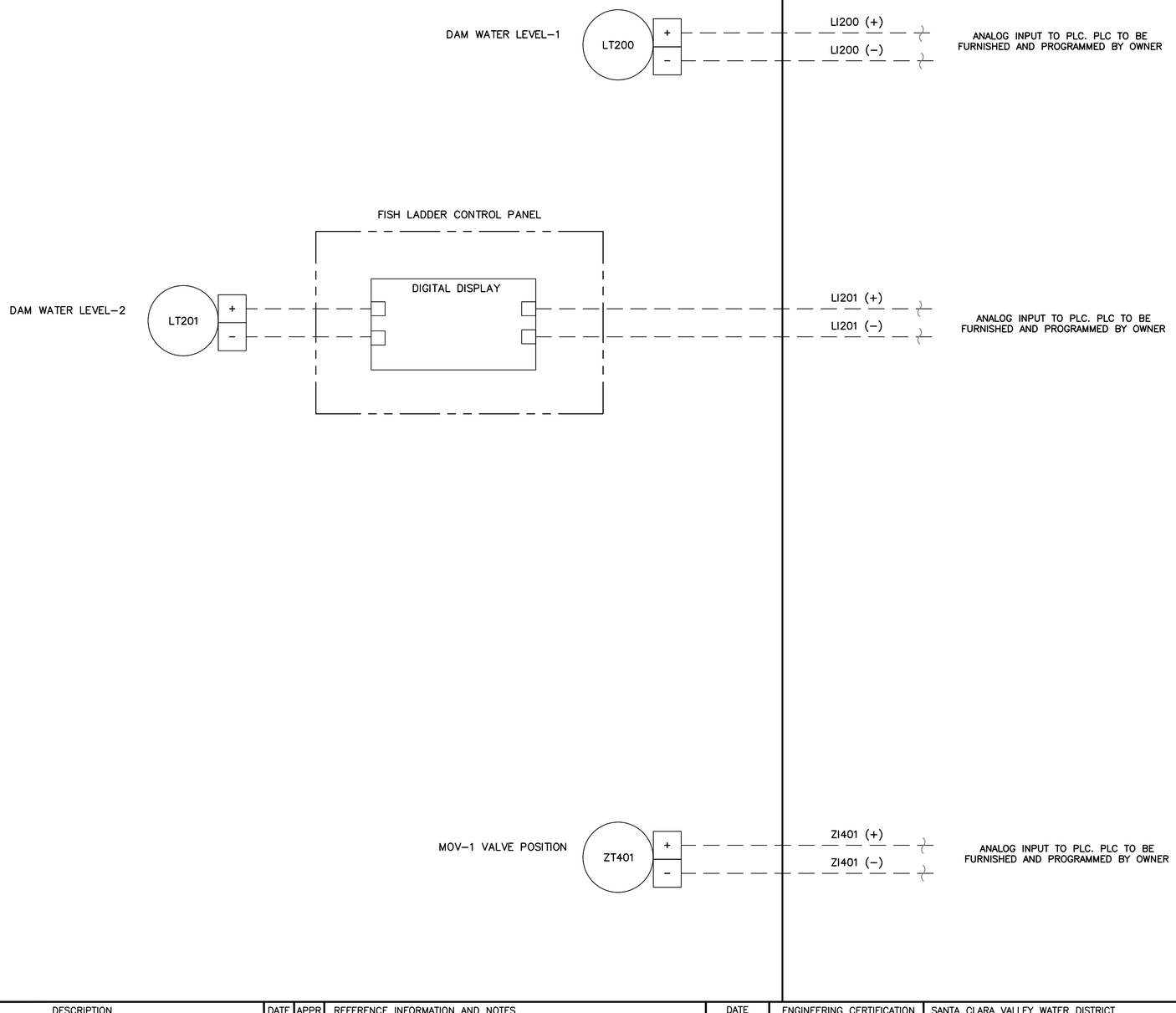
USERNAME: OscaReyn 1/12/2023 4:58 PM
FILENAME: K:\Active Projects\WP-91864009\Coyote Perc Dam Replacement\SHEETS\I-11.dwg

FIELD OR AS NOTED	RTU CONTROL PANEL



DOCUMENT NUMBER: COO–I–9248–75925

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

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.

DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
JAN 2023	REGISTERED PROFESSIONAL ENGINEER · BING-SONG BEN CHEN · No. C57148 · CONTROL SYSTEMS · STATE OF CALIFORNIA	Valley Water
DESIGN B. CHEN		
DRAWN J. CORDOVA		
CHECKED J. REID	PROJECT ENGINEER DATE	

PROJECT NAME AND SHEET DESCRIPTION:

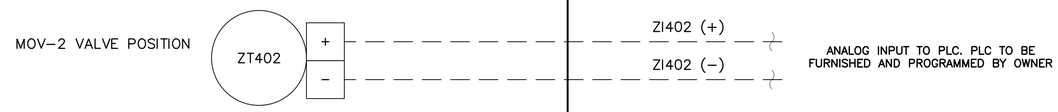
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

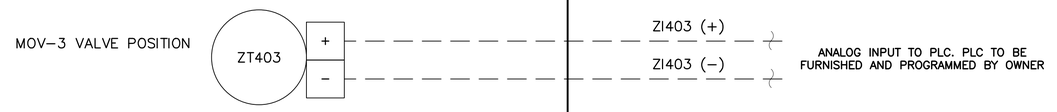
CPD CONTROL PANEL SLOT 3 – ANALOG INPUT MODULE CONTROL WIRING

SCALE	PROJECT NUMBER
AS SHOWN	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–11 SHEET NUMBER: 83

USERNAME: OscaReyn 1/12/2023 4:58 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\I-12.dwg

FIELD OR AS NOTED	RTU CONTROL PANEL





REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

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.

DATE	JAN 2023
DESIGN	B. CHEN
DRAWN	J. CORDOVA
CHECKED	J. REID

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — SING-SONG BEN CHEN — No. C57148 — CONTROL SYSTEMS — STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

CPD CONTROL PANEL SLOT 4 – ANALOG INPUT MODULE CONTROL WIRING

SCALE	PROJECT NUMBER
AS SHOWN	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-12
	SHEET NUMBER: 84

DOCUMENT NUMBER: COO-I-9248-75926

USERNAME: OscaReyn 1/12/2023 4:58 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\I-13.dwg

FIELD OR AS NOTED			RTU CONTROL PANEL
	CONTROL ROOM DOOR SWITCH YS600	YA600.2	DISCRETE INPUT TO PLC. PLC TO BE FURNISHED AND PROGRAMMED BY OWNER
		YA600.1	
MOV-1 VALVE NOT OPENED	ZSB401 50	ZB401.1	DISCRETE INPUT TO PLC. PLC TO BE FURNISHED AND PROGRAMMED BY OWNER
	ZSB401 51	ZB401.2	
MOV-1 VALVE NOT CLOSED	ZSD401 48	ZD401.1	DISCRETE INPUT TO PLC. PLC TO BE FURNISHED AND PROGRAMMED BY OWNER
	ZSD401 49	ZD401.2	
MOV-2 VALVE NOT OPENED	ZSB402 50	ZB402.1	DISCRETE INPUT TO PLC. PLC TO BE FURNISHED AND PROGRAMMED BY OWNER
	ZSB402 51	ZB402.2	

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

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.

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER – SONG BEN CHEN – No. C57148 – CONTROL SYSTEMS – STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
CPD CONTROL PANEL SLOT 5 – DISCRETE INPUT MODULE CONTROL WIRING (1 OF 2)

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-13
SHEET NUMBER: 85

DOCUMENT NUMBER: COO-I-9248-75927

USERNAME: OscaReyn 1/12/2023 4:58 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\I-14.dwg

FIELD OR AS NOTED	RTU CONTROL PANEL
ZSD402 — MOV–2 VALVE NOT CLOSED — 48	ZD402.1 — DISCRETE INPUT TO PLC. PLC TO BE FURNISHED AND PROGRAMMED BY OWNER
49	ZD402.2
ZSB403 — MOV–3 VALVE NOT OPENED — 50	ZB403.1 — DISCRETE INPUT TO PLC. PLC TO BE FURNISHED AND PROGRAMMED BY OWNER
51	ZB403.2
ZSD403 — MOV–3 VALVE NOT CLOSED — 48	ZD403.1 — DISCRETE INPUT TO PLC. PLC TO BE FURNISHED AND PROGRAMMED BY OWNER
49	ZD403.2

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

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.

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — SONG BEN CHEN — No. C57148 — CONTROL SYSTEMS — STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
CPD CONTROL PANEL SLOT 5 – DISCRETE INPUT MODULE CONTROL WIRING (2 OF 2)

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-14
SHEET NUMBER: 86

DOCUMENT NUMBER: COO-I-9248-75928

USERNAME: OscaReyn 1/12/2023 4:59 PM
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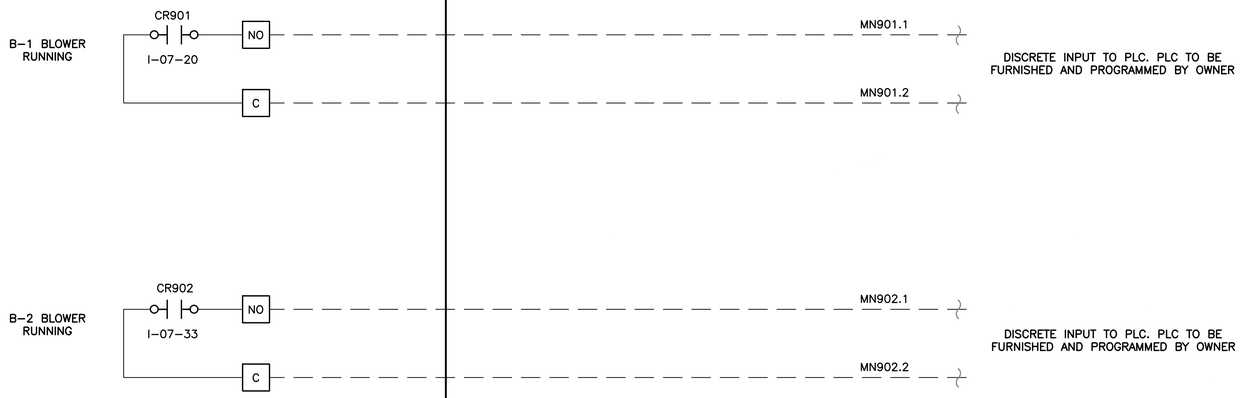
FIELD OR AS NOTED	RTU CONTROL PANEL



REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

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.

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — BING-SONG BEN CHEN — No. C57148 — CONTROL SYSTEMS — STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
CPD CONTROL PANEL SLOT 6 – DISCRETE INPUT MODULE CONTROL WIRING (1 OF 2)

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-15
SHEET NUMBER: 87

DOCUMENT NUMBER: COO-I-9248-75929

FIELD OR AS NOTED	RTU CONTROL PANEL

USERNAME: OscaReyn 1/12/2023 4:59 PM
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DOCUMENT NUMBER: COO-I-9248-75930

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER
BING-SONG BEN CHEN
No. C57148
CONTROL SYSTEMS
STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

*CPD CONTROL PANEL SLOT 6 – DISCRETE INPUT MODULE CONTROL WIRING (2 OF 2)

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-16

SHEET NUMBER: 88

USERNAME: OscaReyn 1/12/2023 4:59 PM
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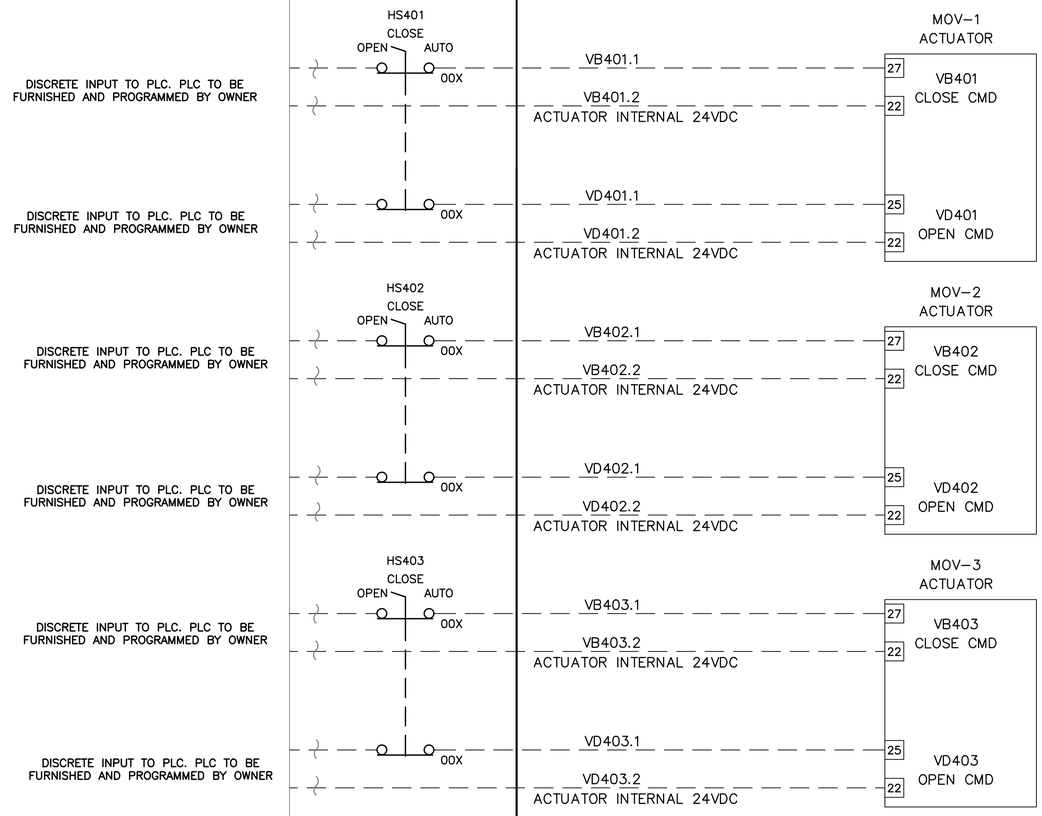
RTU CONTROL PANEL

FIELD OR AS NOTED



DOCUMENT NUMBER: C00–I–9248–75931

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

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.

DATE	JAN 2023
DESIGN	B. CHEN
DRAWN	J. CORDOVA
CHECKED	J. REID

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — BING–SONG BEN CHEN — No. CS7148 — CONTROL SYSTEMS — STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

CPD CONTROL PANEL SLOT 7 – DISCRETE OUTPUT MODULE CONTROL WIRING (1 OF 2)

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–17
SHEET NUMBER:	89

USERNAME: OscaReyn 1/12/2023 4:59 PM
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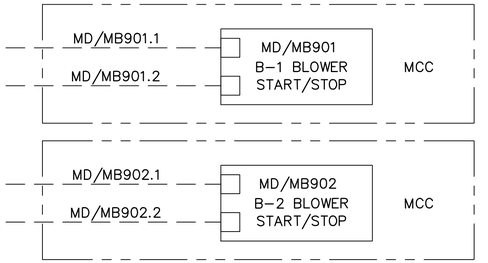
RTU CONTROL PANEL

FIELD OR AS NOTED

DISCRETE INPUT TO PLC. PLC TO BE FURNISHED AND PROGRAMMED BY OWNER

DISCRETE INPUT TO PLC. PLC TO BE FURNISHED AND PROGRAMMED BY OWNER



REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

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.

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — JING-SONG BEN CHEN — No. C57148 — CONTROL SYSTEMS — STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

CPD CONTROL PANEL SLOT 7 – DISCRETE OUTPUT MODULE CONTROL WIRING (2 OF 2)

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-18

SHEET NUMBER: 90

DOCUMENT NUMBER: COO-I-9248-75932

USERNAME: RamaSain 1/12/2023 7:08 PM
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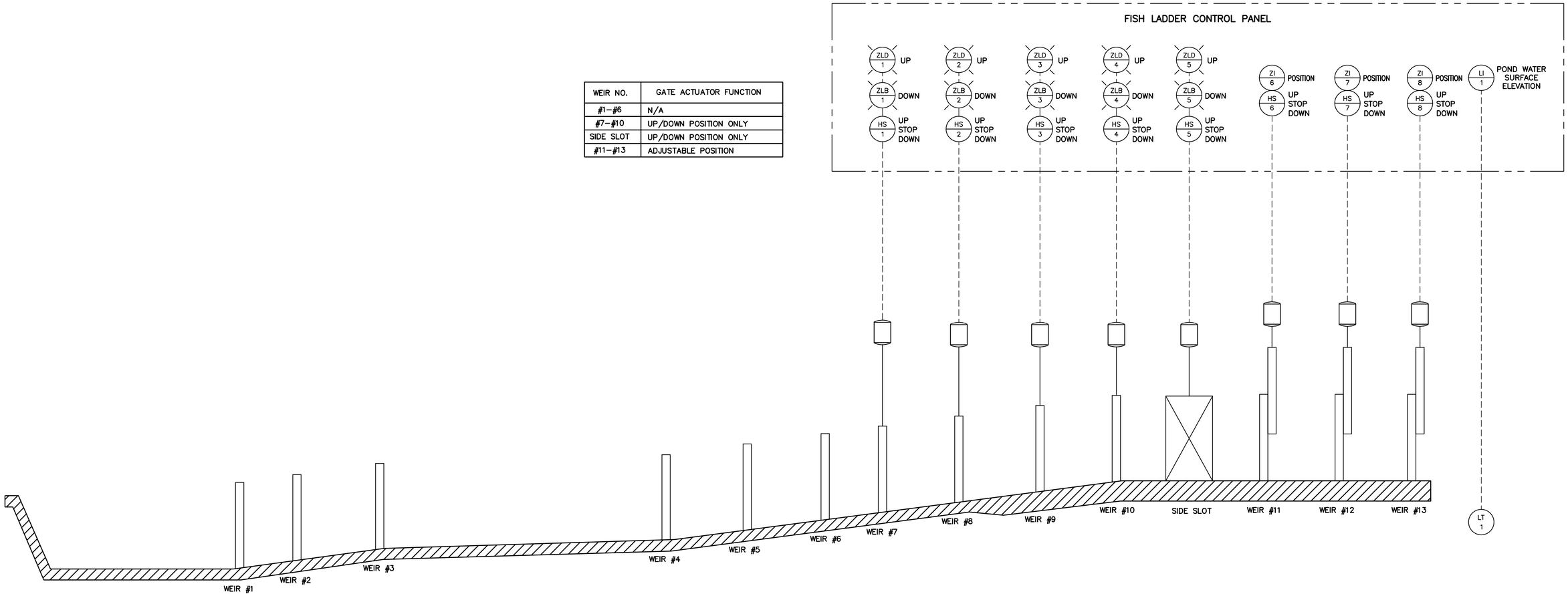
WEIR NO.	GATE ACTUATOR FUNCTION
#1–#6	N/A
#7–#10	UP/DOWN POSITION ONLY
SIDE SLOT	UP/DOWN POSITION ONLY
#11–#13	ADJUSTABLE POSITION



REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: C00-I-9248-75933

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — BING-SONG BEN CHEN — No. CS7148 — CONTROL SYSTEMS — STATE OF CALIFORNIA
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
FISH LADDER 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-19
SHEET NUMBER: 91

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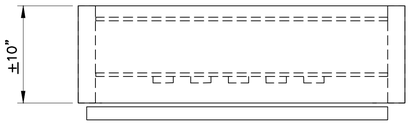
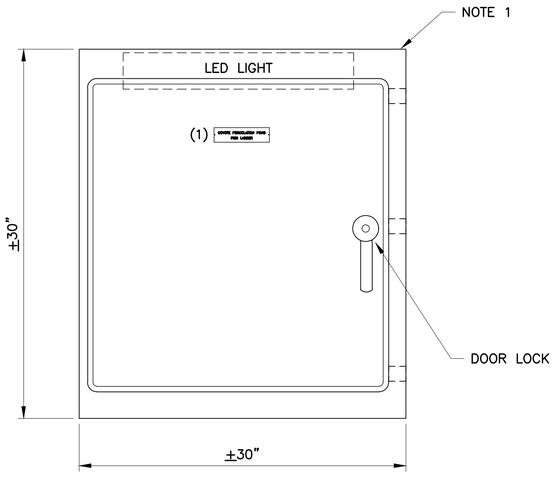
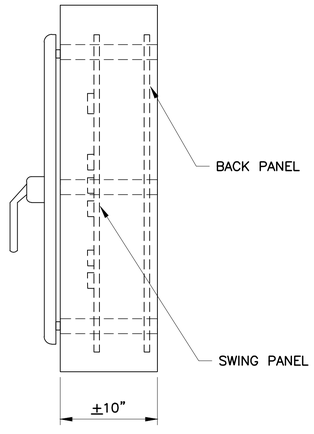


TOP VIEW

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



DOOR LAYOUT
FRONT VIEW



SIDE VIEW

NOTES:

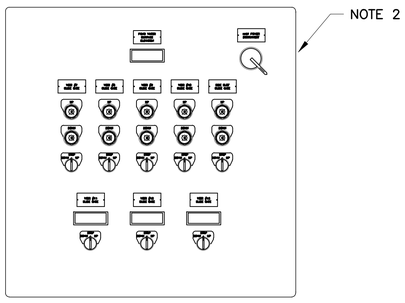
1. STAINLESS STEEL 30"X30"X10" NEMA-4 ENCLOSURE. INCLUDE BACK PANEL AND SWING PANEL.
2. CONTROL PANEL SHALL BE FURNISHED BY OWNER AND INSTALLED BY THE CONTRACTOR. CONTRACTOR SHALL INSTALL AND TERMINATE ALL FIELD WIRING BETWEEN CONTROL PANEL AND THE FIELD DEVICES. THIS LAYOUT IS FOR REFERENCE ONLY.

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

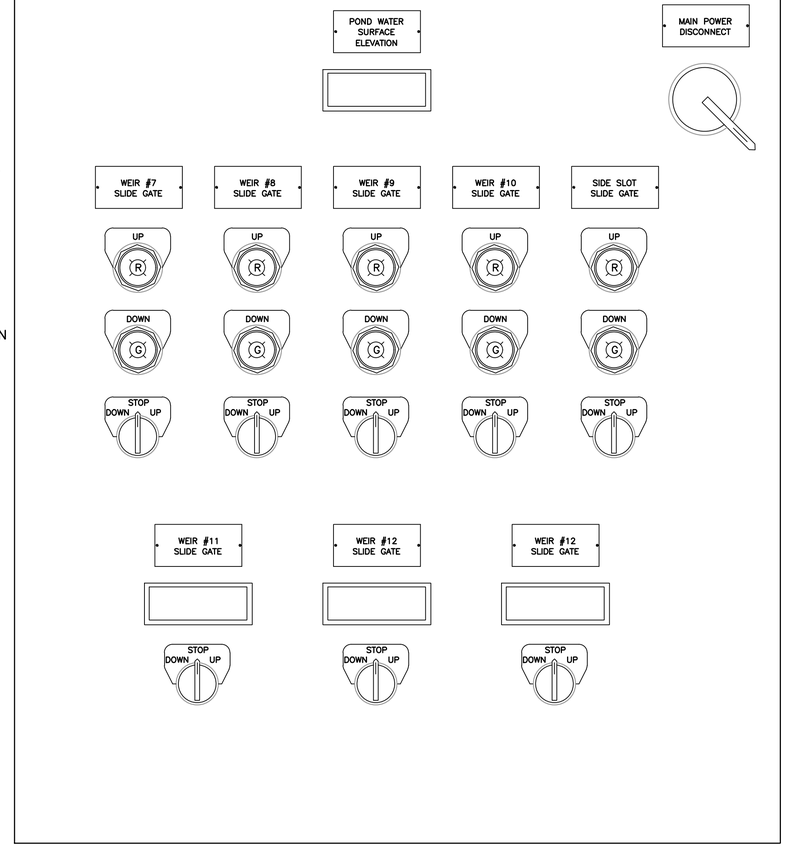
1. TURN THE SWITCH TO UP POSITION TO MOVE THE GATE UP.
2. THE GATE WILL MOVE UP AND THEN STOP AT THE FULLY UP POSITION.
3. THE RED UP LIGHT WILL BE TURNED ON.
4. TURN THE SWITCH TO DOWN POSITION TO MOVE THE GATE DOWN.
5. THE GATE WILL MOVE DOWN AND THEN STOP AT THE FULLY DOWN POSITION.
6. THE GREEN DOWN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



DOCUMENT NUMBER: COO-I-9248-75934

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE: JAN 2023
DESIGN: B. CHEN
DRAWN: J. CORDOVA
CHECKED: J. REID

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER · PING-SONG BEN CHEN · No. CS7148 · CONTROL SYSTEMS · STATE OF CALIFORNIA
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: I-20
SHEET NUMBER: 92

USERNAME: RamaSain 1/12/2023 6:14 PM
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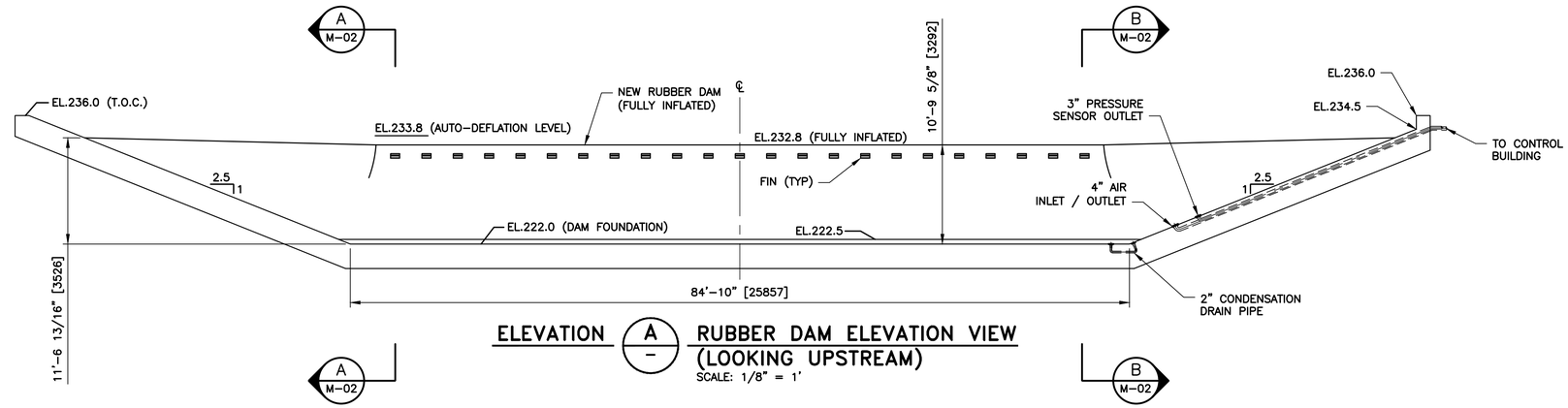
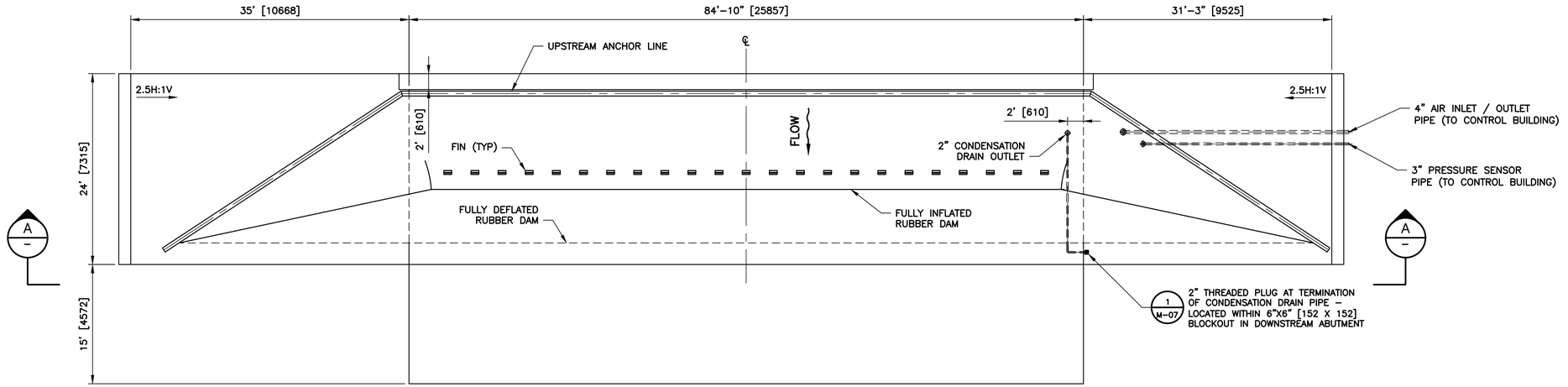


ELEVATION A – RUBBER DAM ELEVATION VIEW (LOOKING UPSTREAM)

SCALE: 1/8" = 1'



PLAN

SCALE: 1/8" = 1'

NOTES:

1. ALL DIMENSIONS IN FEET–INCHES [MM]. ALL ELEVATIONS GIVEN IN FEET (NAVD88).
2. INSTALL RUBBER DAM ON NEW REINFORCED CONCRETE FOUNDATION. SEE S–SHT FOR FOUNDATION STRUCTURAL DESIGN.
3. 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

HTE ENGINEERING

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER – JOUHAN LEE – No. C42456 – CIVIL – STATE OF CALIFORNIA
ENGINEER DATE

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 ELEVATION AND PLAN 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-01
SHEET NUMBER: 93

DOCUMENT NUMBER: COO-M-9248-75935

USERNAME: RamaSain 1/12/2023 6:15 PM
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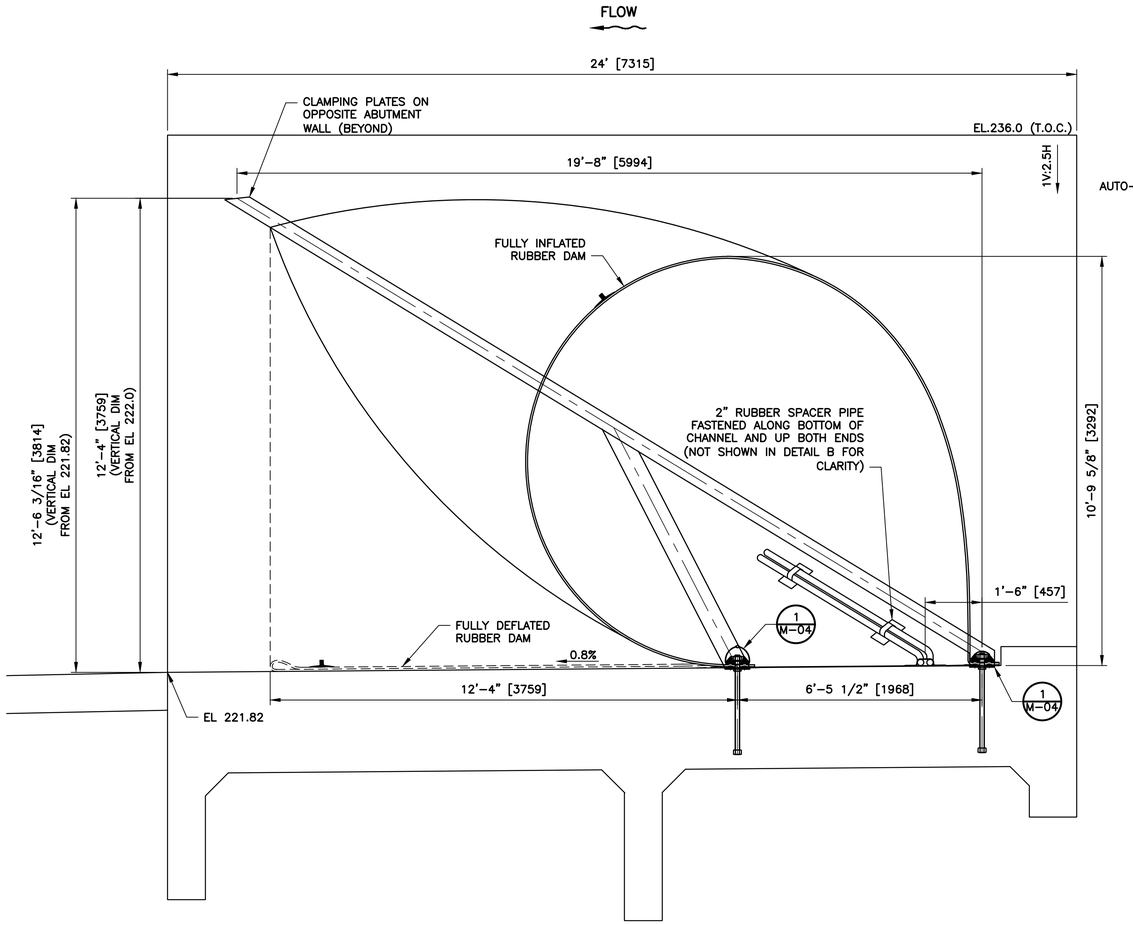
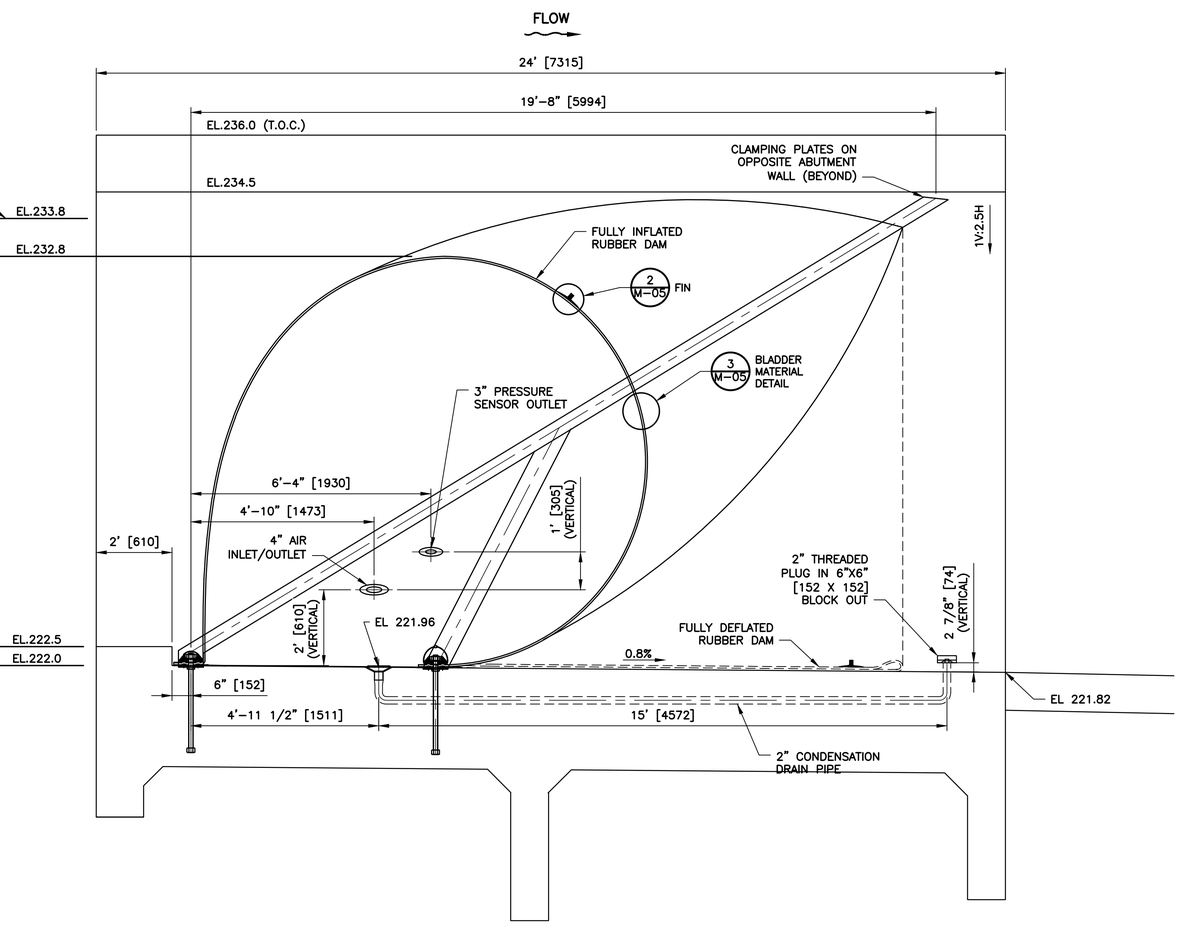


SECTION A M-01 RUBBER DAM SECTION VIEW
NORTH ABUTMENT
SCALE: 1/2" = 1'-0"



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

NOTES:

1. ALL DIMENSIONS IN FEET-INCHES [MM]. ALL ELEVATIONS GIVEN IN FEET (NAVD88).

2. INSTALL RUBBER DAM ON NEW REINFORCED CONCRETE FOUNDATION. SEE S-SHT FOR FOUNDATION STRUCTURAL DESIGN.

3. 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.

4. SPECIFIED CAULK FOR USE BETWEEM 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 — JOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA
ENGINEER DATE

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 SECTIONS 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-02
SHEET NUMBER:	94

DOCUMENT NUMBER: COO-M-9248-75936

USERNAME: RamaSain 1/12/2023 6:16 PM
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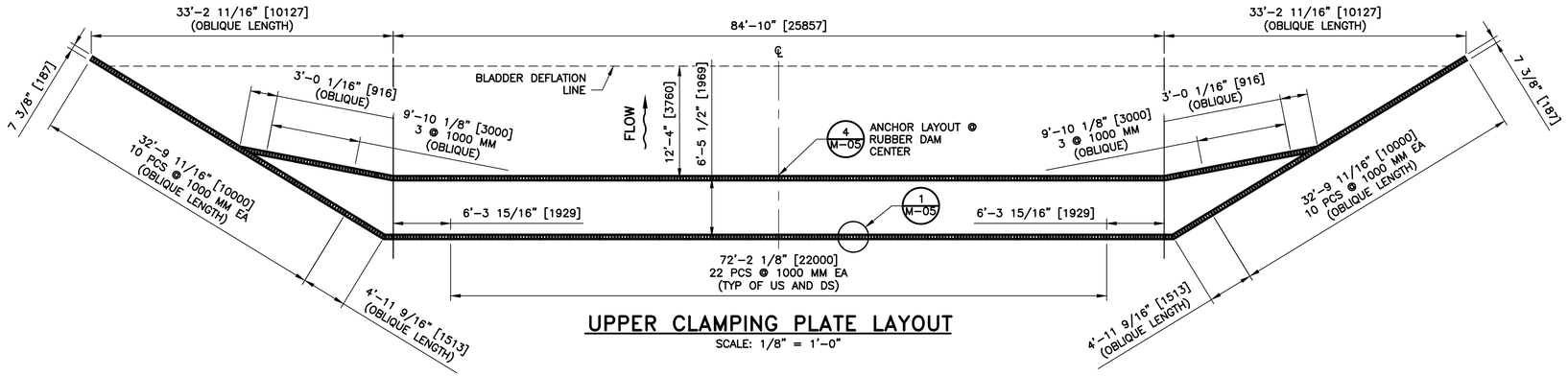
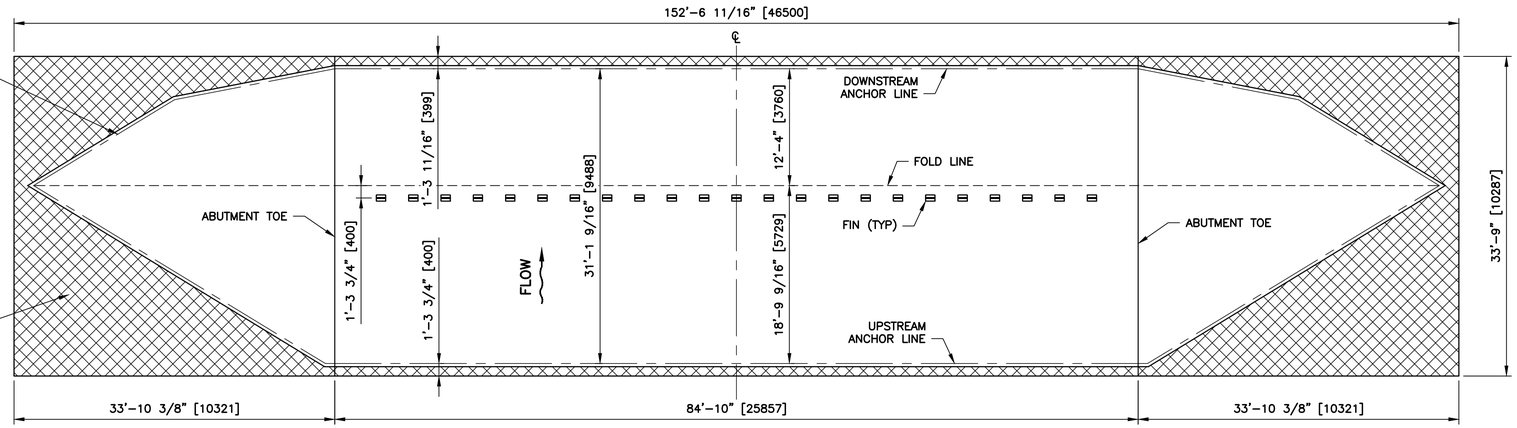


UPPER CLAMPING PLATE LAYOUT

SCALE: 1/8" = 1'-0"

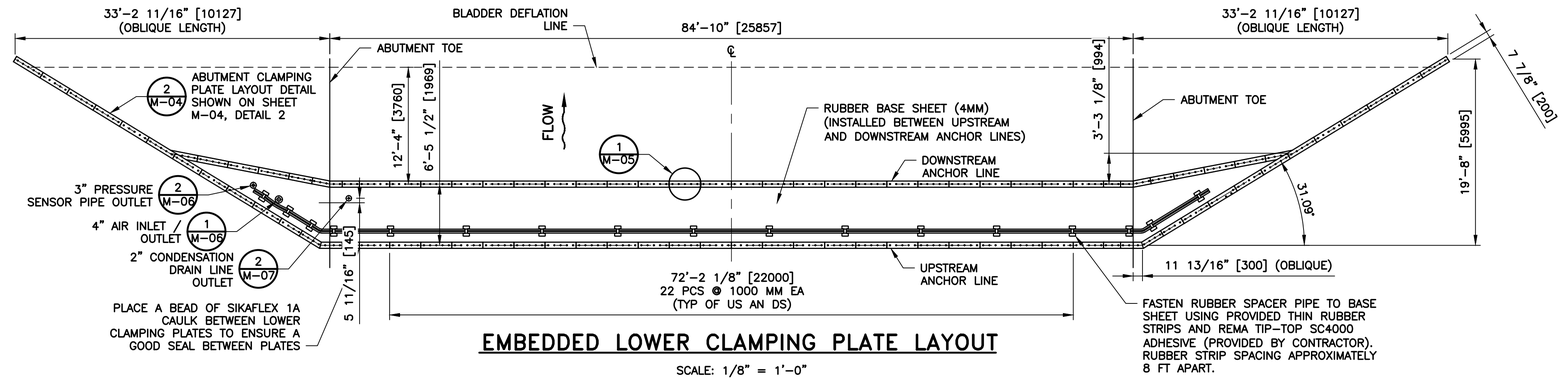
ANCHOR LINE (TYP) – ANCHOR HOLES TO BE DRILLED ON-SITE BY CONTRACTOR TO MATCH ANCHOR DIAMETER AND SPACING. MAX 1/16" TOLERANCE FOR ANCHOR HOLE DIAMETER (TYP OF ALL ANCHOR HOLES). APPROXIMATELY 428 ANCHOR BOLTS ALONG MAIN RUBBER BLADDER ANCHOR LINE

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



RUBBER BLADDER LAYOUT

SCALE: 1/8" = 1'-0"



EMBEDDED LOWER CLAMPING PLATE LAYOUT

SCALE: 1/8" = 1'-0"

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.

DOCUMENT NUMBER: COO-M-9248-75937

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 — JOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA
ENGINEER DATE

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

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

USERNAME: RamaSain 1/12/2023 6:16 PM
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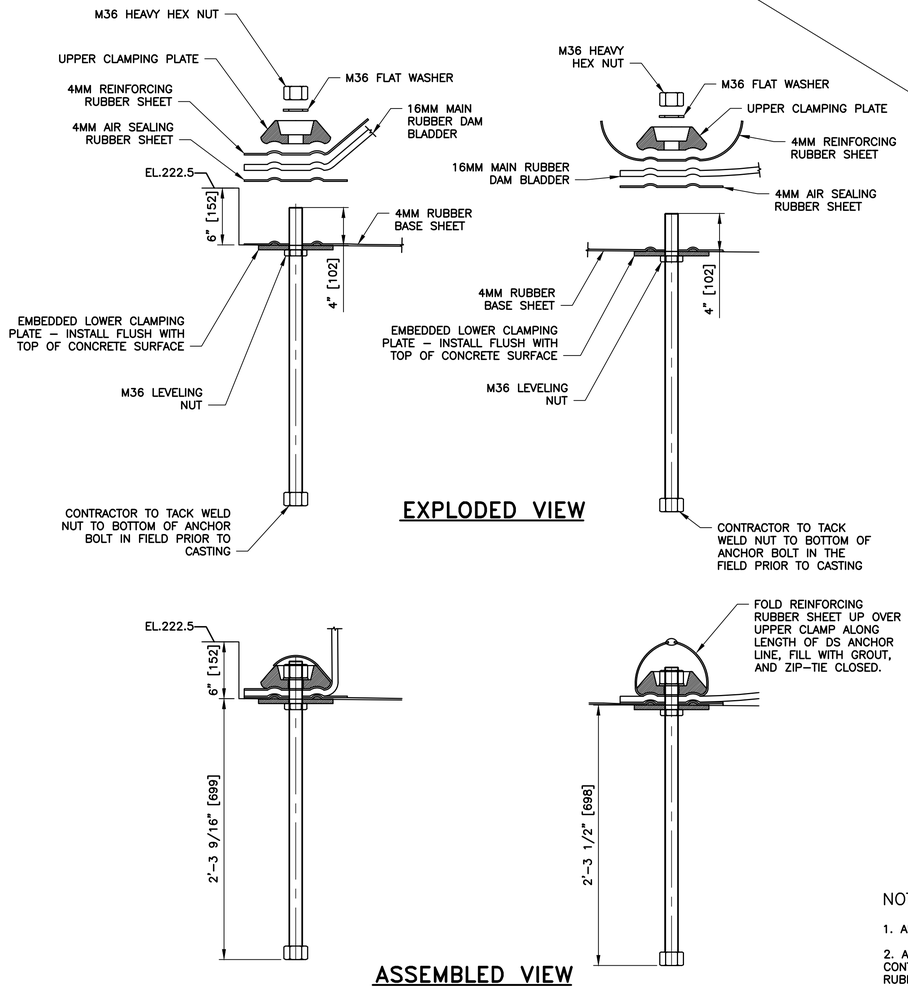
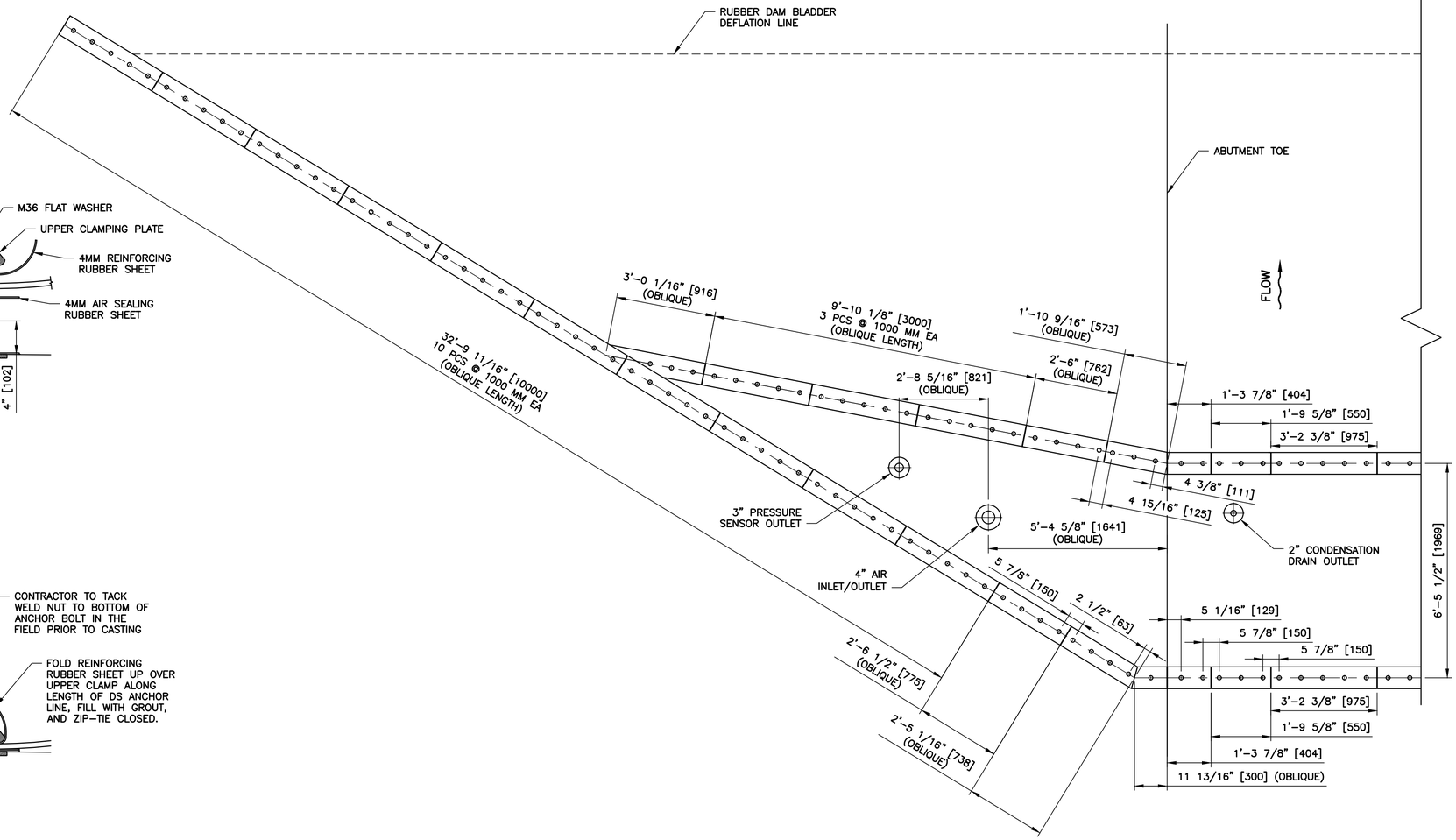


DETAIL 1 / M-02 — RUBBER DAM ANCHOR LINE LAYERING UPSTREAM (LEFT) & DOWNSTREAM (RIGHT)

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



DETAIL 2 / M-03 — ABUTMENT CLAMPING PLATE LAYOUT (PLATE LAYOUT TYPICAL OF BOTH ABUTMENTS)

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

NOTES:

1. ALL DIMENSIONS IN FEET-INCHES [MM]. ALL ELEVATIONS GIVEN IN FEET (NAVD88)
2. 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.
3. EMBEDDED LOWER CLAMPING PLATE DIMENSIONS AND LAYOUT ON THIS SHEET ARE TYPICAL OF BOTH ABUTMENTS
4. TYPICAL ANCHOR BOLT SPACING IS 200MM O.C. UNLESS OTHERWISE NOTED.
5. ALL FACTORY-FINISHED CLAMPING PLATES ARE MANUFACTURED WITH A 2MM TOLERANCE ON EACH END. HOWEVER, SPACING BETWEEN THE LAST ANCHOR BOLT ON ONE PLATE AND THE FIRST ANCHOR BOLT ON THE NEXT PLATE SHOULD BE 200MM O.C., UNLESS OTHERWISE NOTED.
6. SPECIFIED CAULK FOR USE BETWEEN LOWER CLAMPING PLATS 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

DOCUMENT NUMBER: COO-M-9248-75938

HTG ENGINEERING

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — JOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA
ENGINEER DATE

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 CLAMPING 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-04
SHEET NUMBER: 96

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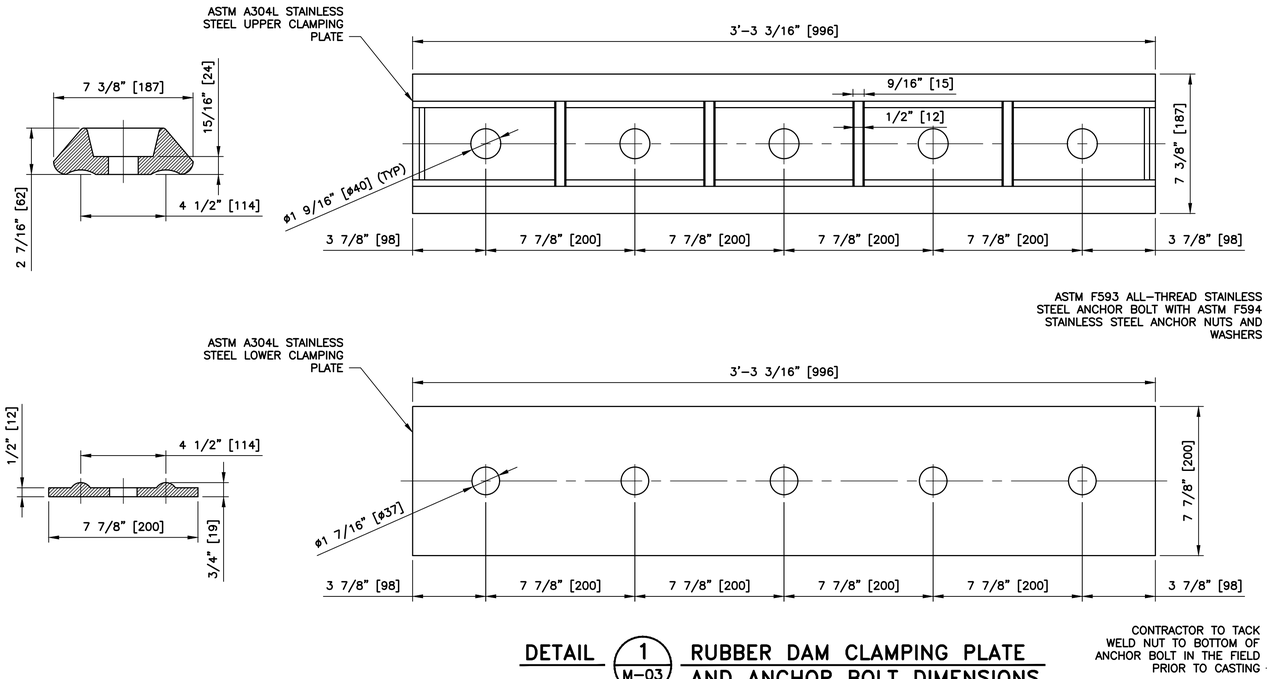
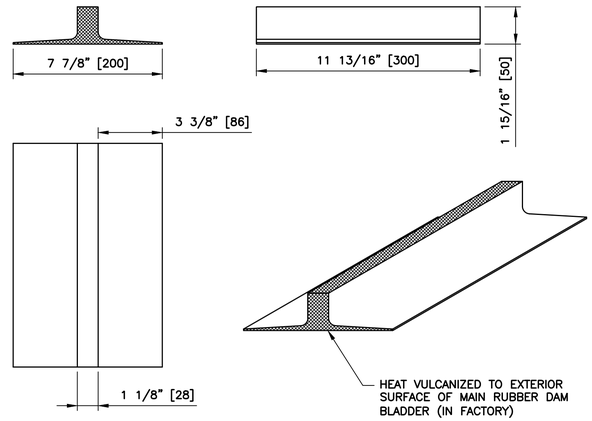


DETAIL 1 / M-03 RUBBER DAM CLAMPING PLATE AND ANCHOR BOLT DIMENSIONS

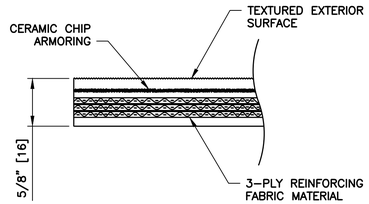
SCALE: 3" = 1'-0"



DETAIL 2 / M-02 RUBBER DAM FIN DETAILS

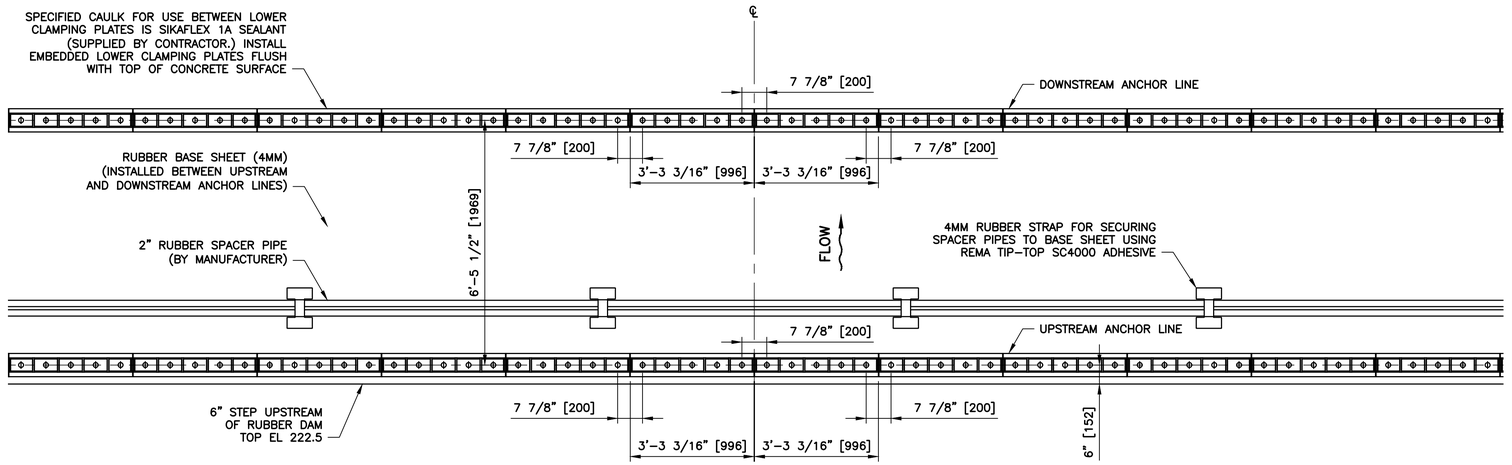
SCALE: 3" = 1'-0"

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



DETAIL 3 / M-02 RUBBER DAM BLADDER MATERIAL SECTION VIEW

SCALE: 1" = 1"



DETAIL 4 / M-03 RUBER DAM PLATE & BOLT LAYOUT AT CHANNEL CENTERLINE

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

NOTES:

1. ALL DIMENSIONS IN FEET-INCHES [MM].
2. 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.
3. SPECIFIED CAULK FOR USE BETWEEN LOWER CLAMPING PLATS 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 — JOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA
ENGINEER DATE

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 COMPONENT 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: M-05
SHEET NUMBER: 97

DOCUMENT NUMBER: COO-M-9248-75939

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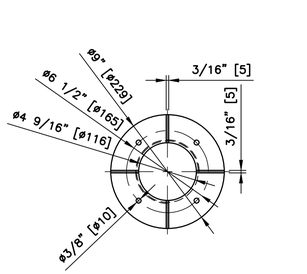
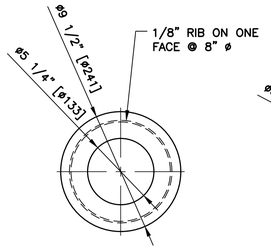
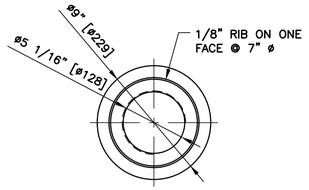
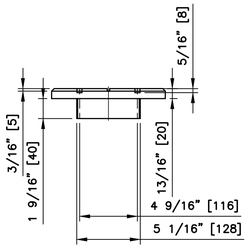
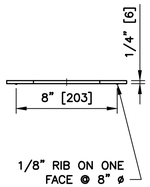
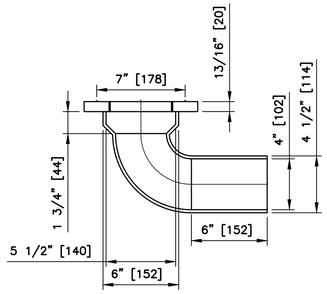


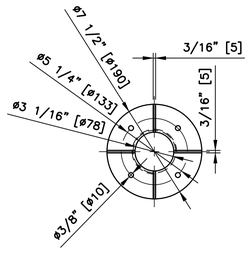


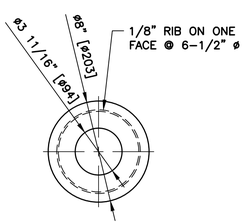


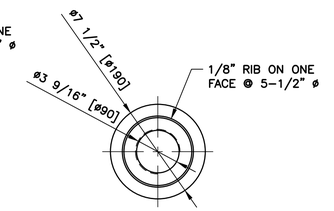


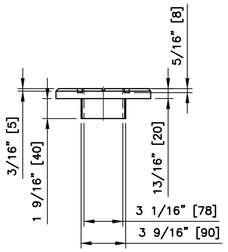


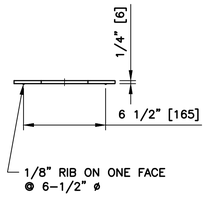


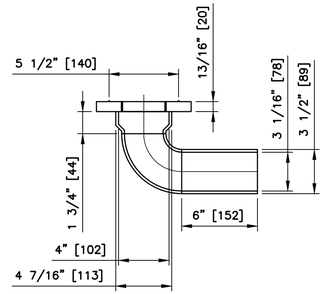


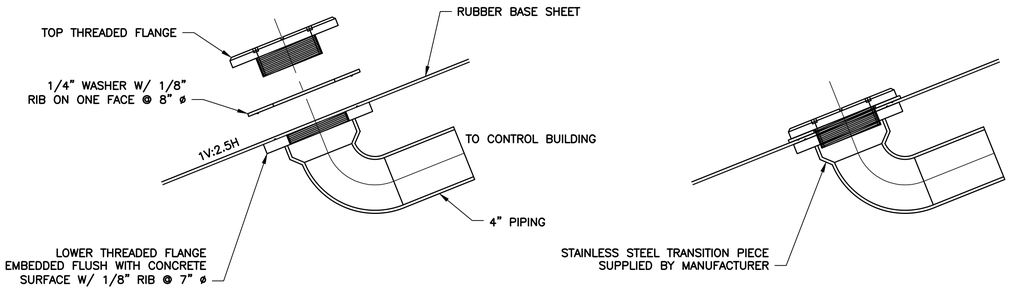






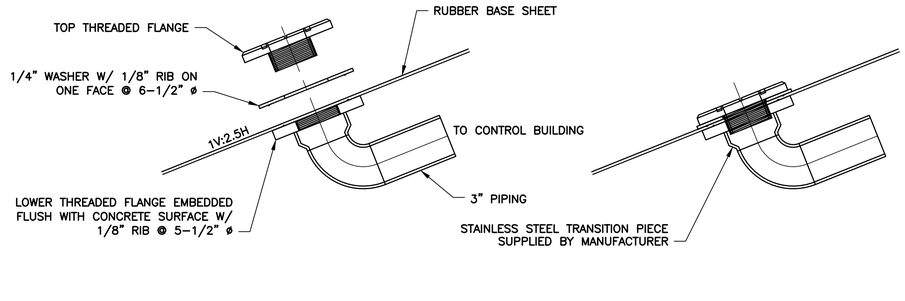






DETAIL 1 M-03 — 4" AIR INLET / OUTLET FLANGE

SCALE: 2" = 1'-0"



DETAIL 2 M-03 — PRESSURE SENSOR OUTLET FLANGE

SCALE: 2" = 1'-0"

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 — JOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA
ENGINEER DATE

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 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

DOCUMENT NUMBER: COO-M-9248-75940

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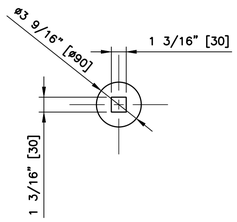
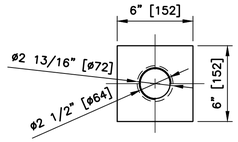
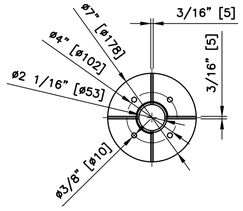
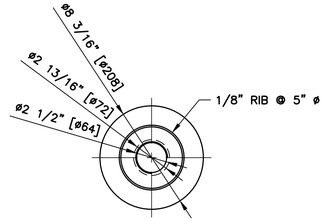
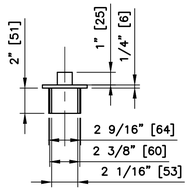
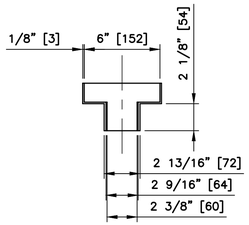


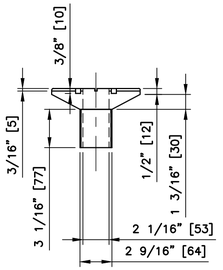


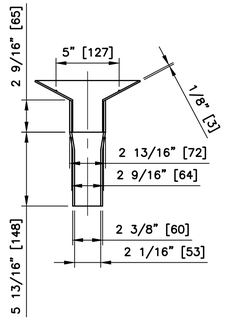


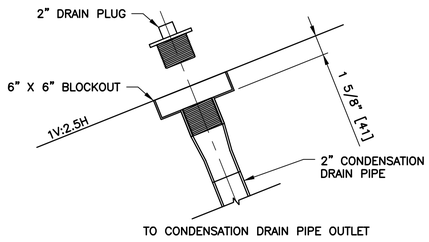


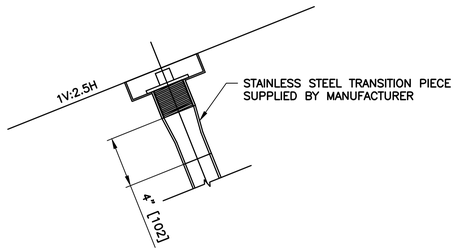


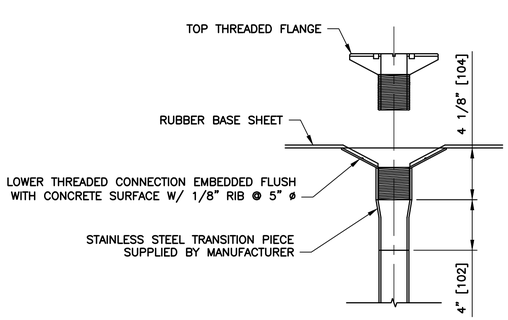


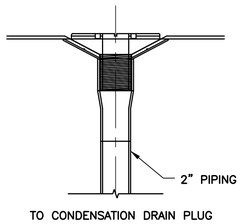












DETAIL 1 / M-01 — 2" CONDENSATION DRAIN PLUG

SCALE: 2" = 1'-0"

DETAIL 2 / M-03 — 2" CONDENSATION DRAIN FLANGE

SCALE: 2" = 1'-0"

DOCUMENT NUMBER: COO-M-9248-75941

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 — JOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA
ENGINEER DATE

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 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

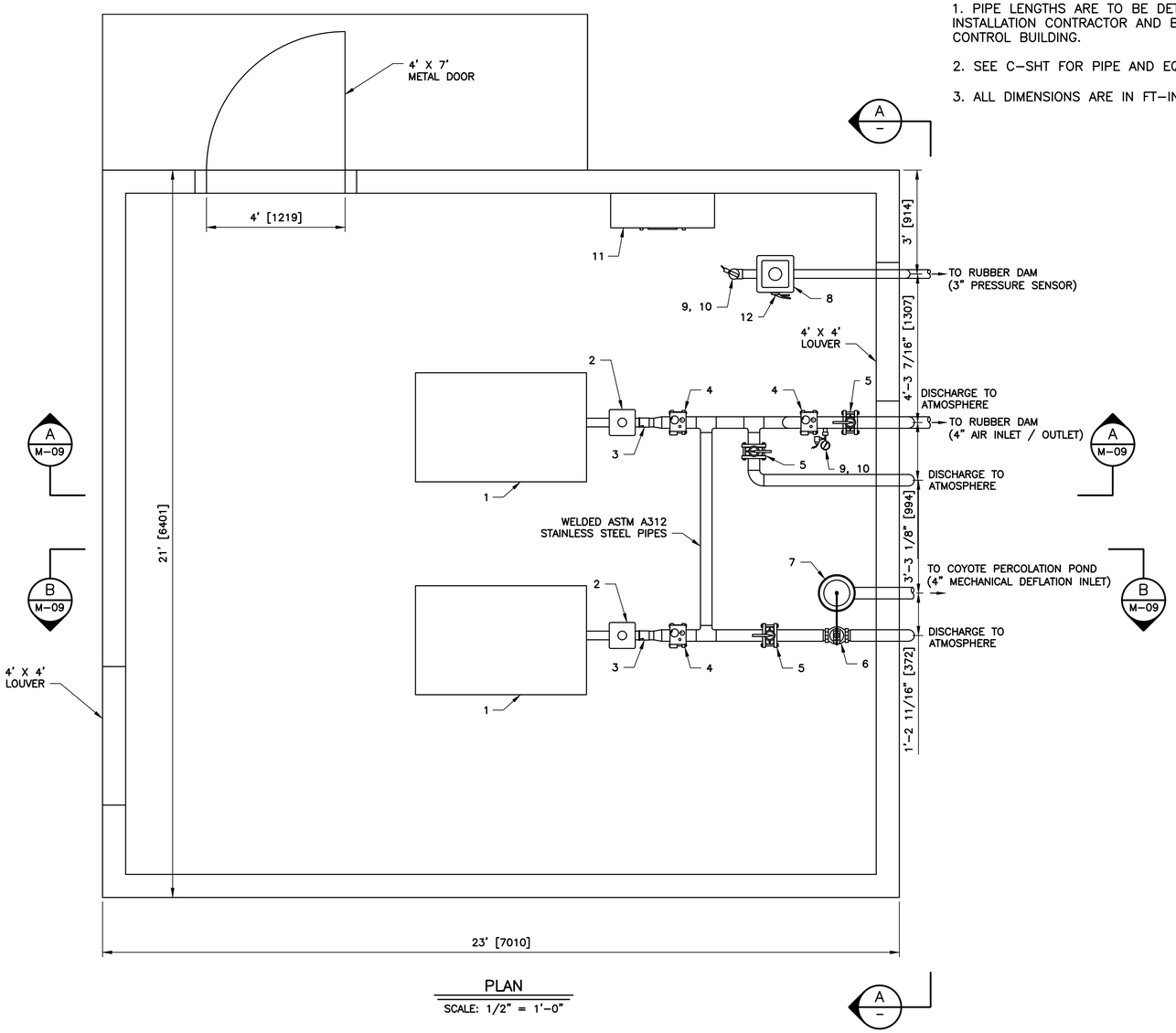
USERNAME: RamaSain 1/12/2023 6:18 PM
FILENAME: \\srvfile1\engineering plans\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\M-08.dwg

NOTES:

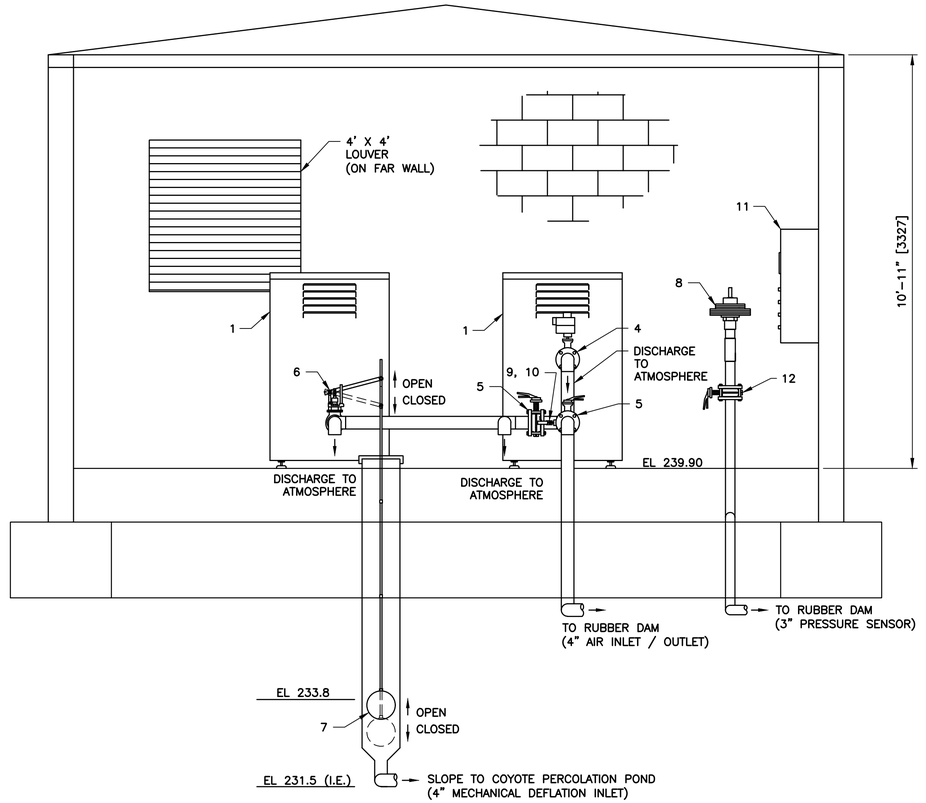
1. PIPE LENGTHS ARE TO BE DETERMINED AND CUT TO FIT ON-SITE BY INSTALLATION CONTRACTOR AND BASED ON THE AVAILABLE SPACE IN THE CONTROL BUILDING.
2. SEE C-SHT FOR PIPE AND EQUIPMENT SUPPORTS.
3. ALL DIMENSIONS ARE IN FT-IN [MM] UNLESS OTHERWISE NOTED.

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



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



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

DOCUMENT NUMBER: COO-M-9248-75942

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

HTE ENGINEERING

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

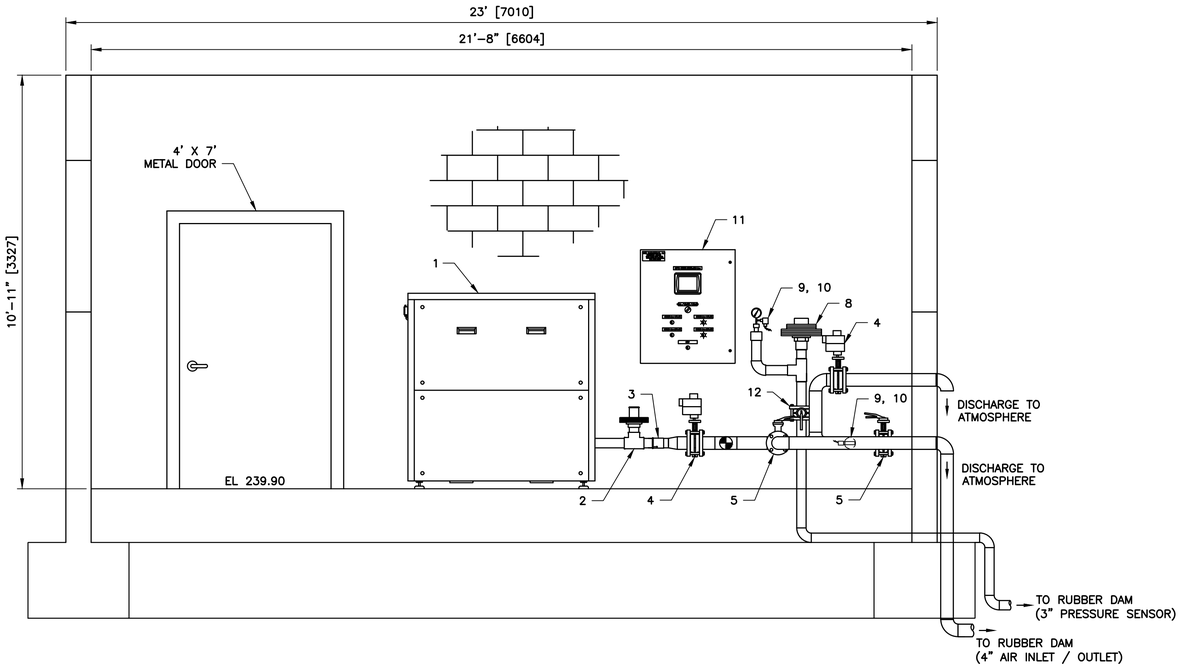
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER – GOURAN LEE – No. C42456 – CIVIL – STATE OF CALIFORNIA
ENGINEER DATE

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

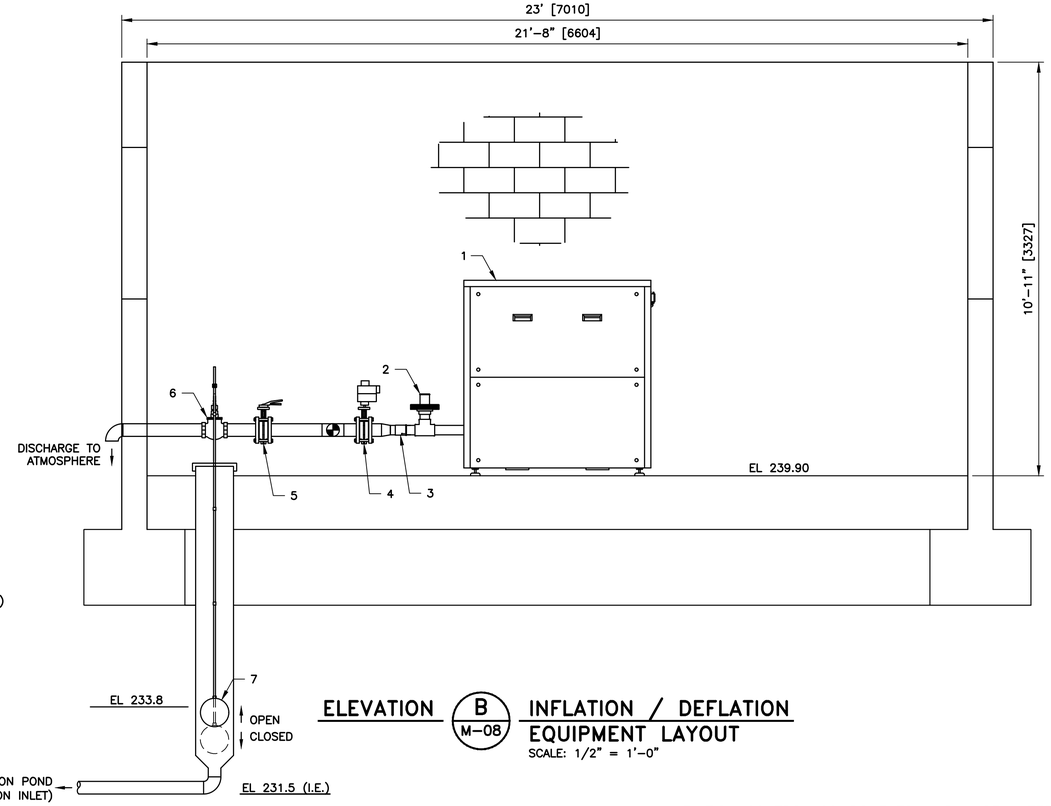
PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
CONTROL BUILDING PLAN AND ELEVATION VIEWS

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-08
SHEET NUMBER: 100

USERNAME: RamaSain 1/12/2023 6:19 PM
FILENAME: \\srvfile1\engineering plans\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\M-09.dwg



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



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

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

NOTES:

1. 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.
2. SEE DET 4, SHT C-25 FOR PIPE AND EQUIPMENT SUPPORTS. SEE DET 7, SHT 25 FOR PIPING PENETRATION THROUGH WALL.
3. ALL DIMENSIONS ARE IN FT-IN [MM] UNLESS OTHERWISE NOTED.

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

HTG ENGINEERING

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

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

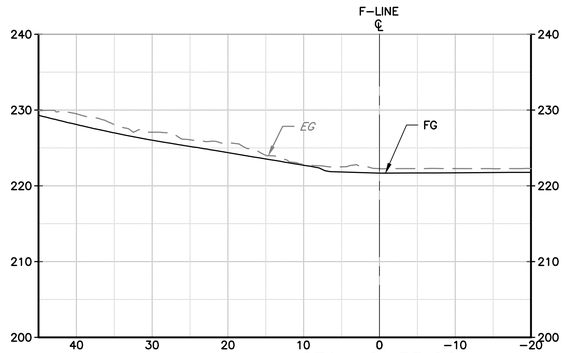
SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER ACCEPTED BY DISTRICT DATE

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

DOCUMENT NUMBER: COO-M-9248-75943



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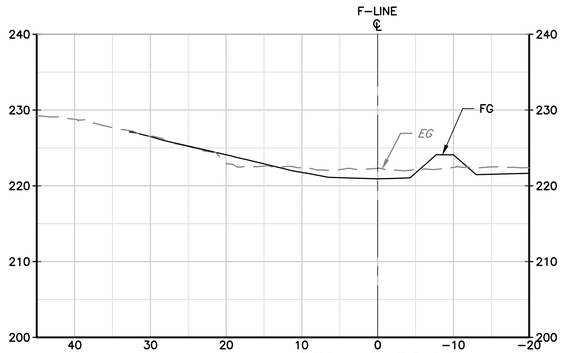
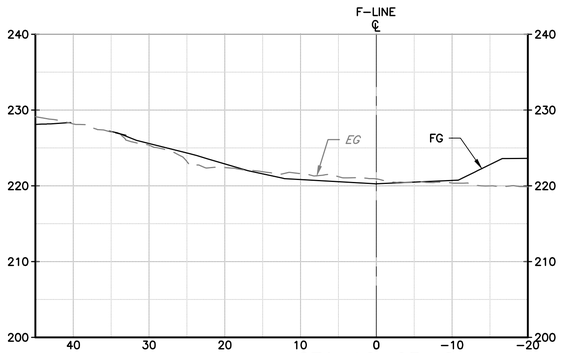
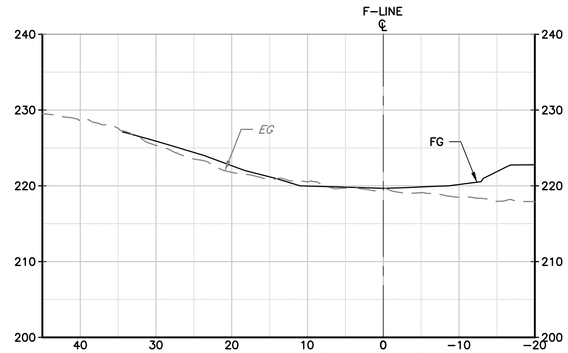


STA 10+50.00



STA 10+63.40



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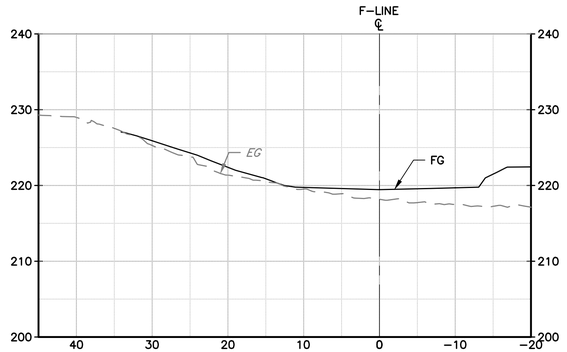
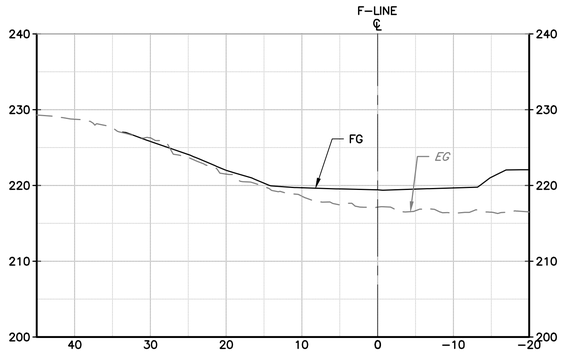
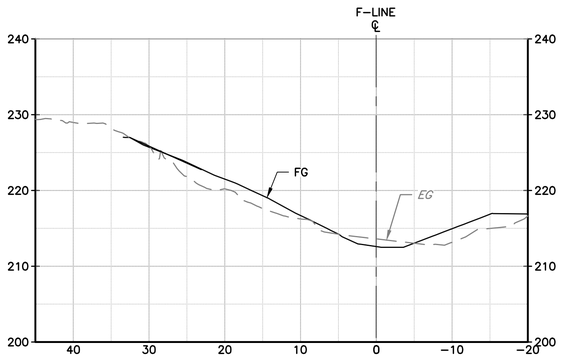


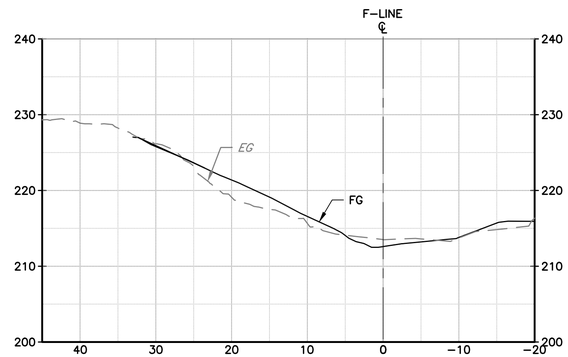
STA 10+79.60



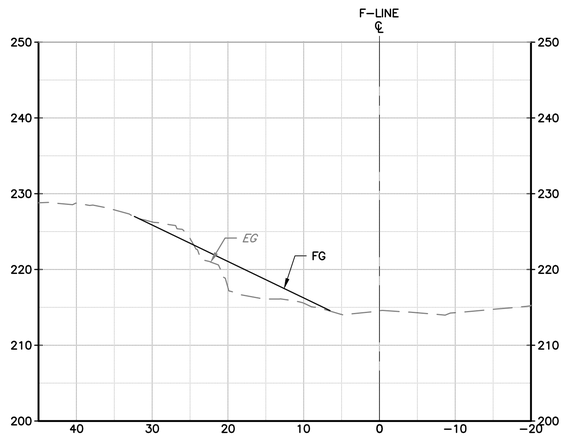
STA 10+84.56



STA 10+98.44



STA 11+02.00



STA 11+07.00

SECTIONS
SCALE: 1" = 10'

DOCUMENT NUMBER: COO-X-9248-75944

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

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

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

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

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT
FISH LANE CROSS 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: X-01
SHEET NUMBER: 102

USERNAME: OscaReyn 1/12/2023 5:01 PM
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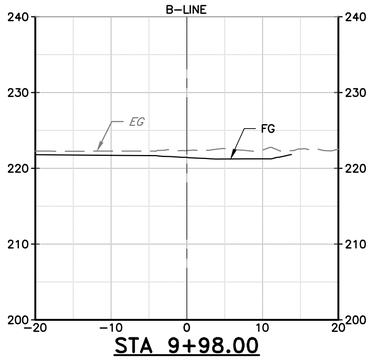
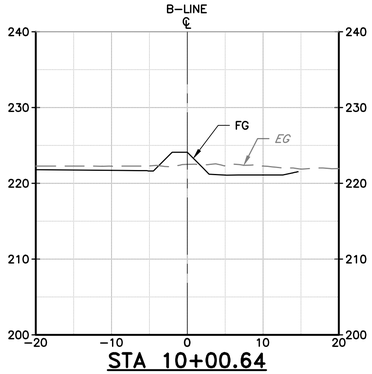


STA 9+98.00



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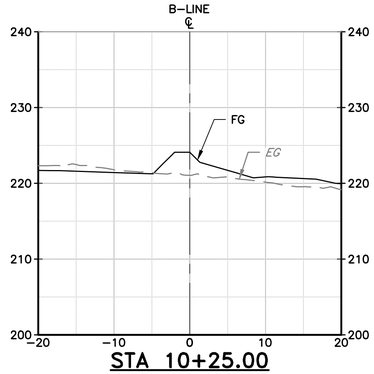
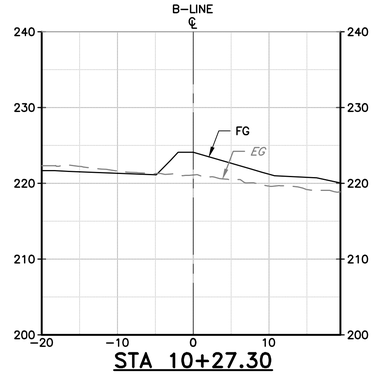
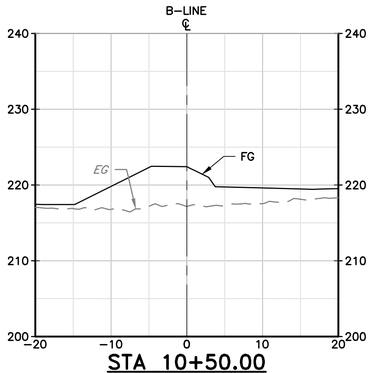


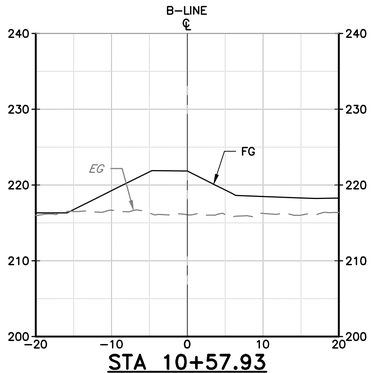
STA 10+25.00



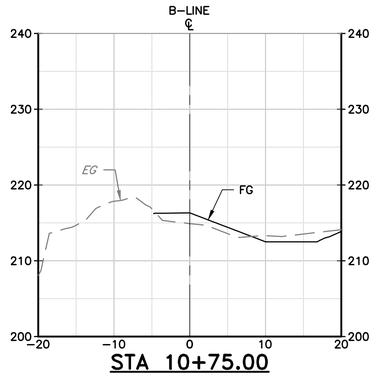
STA 10+27.30



STA 10+50.00



STA 10+57.93



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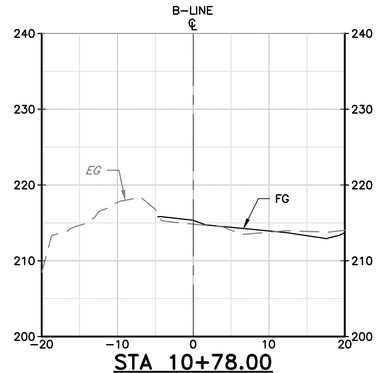


STA 10+78.00

SECTIONS

SCALE: 1" = 10'

USERNAME: OscaReyn 1/12/2023 5:01 PM
FILENAME: K:\Active Projects\WP-91864009\Coyote Perc Dam Replacement\SHEETS\X-02.dwg

DOCUMENT NUMBER: COO-X-9248-75945

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
DESIGN	Y. LEE
DRAWN	R. SAINI
CHECKED	K. NEUMAN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER
JOUHAN LEE
No. C42456
CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

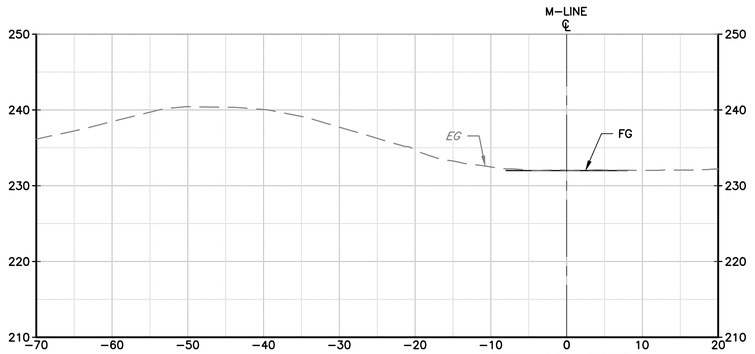
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

BERM CROSS 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:	X-02
SHEET NUMBER:	103



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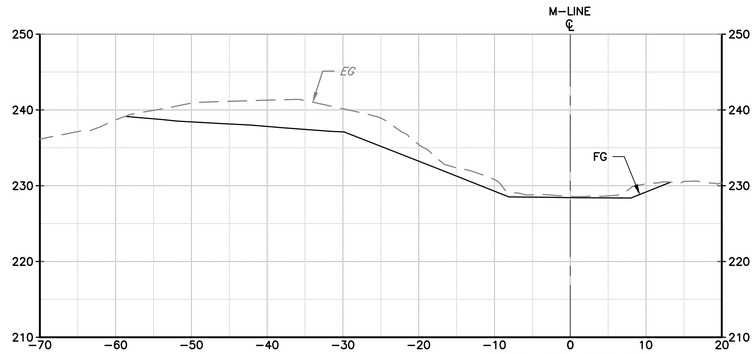

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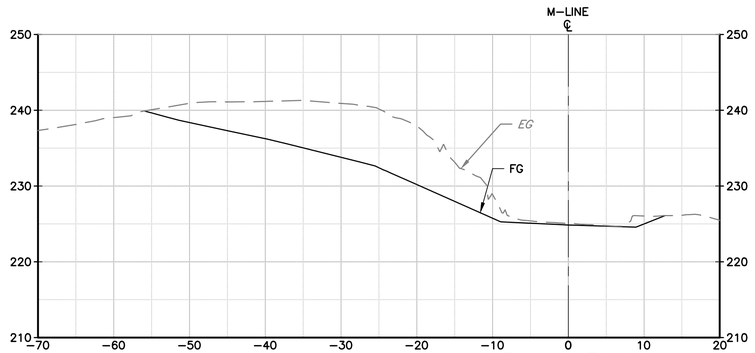

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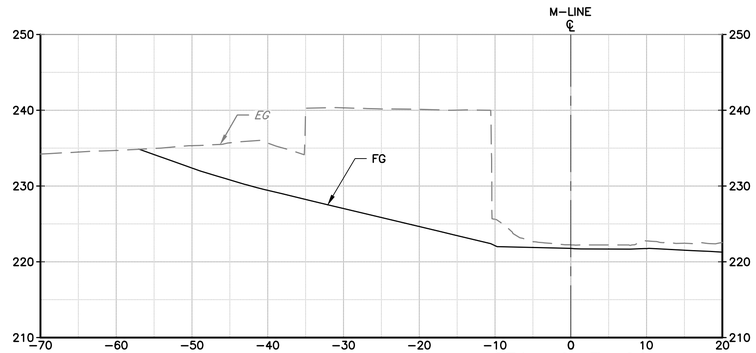


STA 10+71.00

SECTIONS

SCALE: 1" = 10'

DOCUMENT NUMBER: COO-X-9248-75946

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
DESIGN	Y. LEE
DRAWN	R. SAINI
CHECKED	K. NEUMAN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — YOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

MAINTENANCE ROAD RAMP CROSS SECTIONS

SCALE	PROJECT NUMBER
AS SHOWN	91864009

VERIFY SCALES

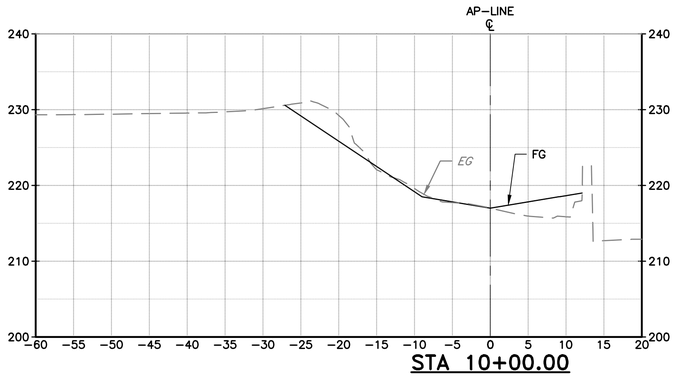
0 1"

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

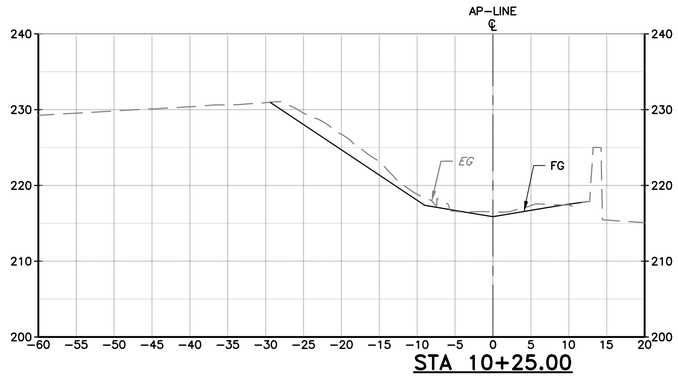
SHEET CODE: X-03

SHEET NUMBER: 104

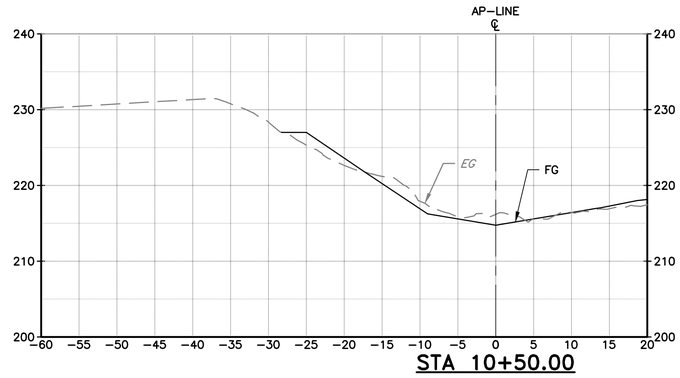
USERNAME: Zafakhan 1/12/2023 5:02 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\X-03.dwg



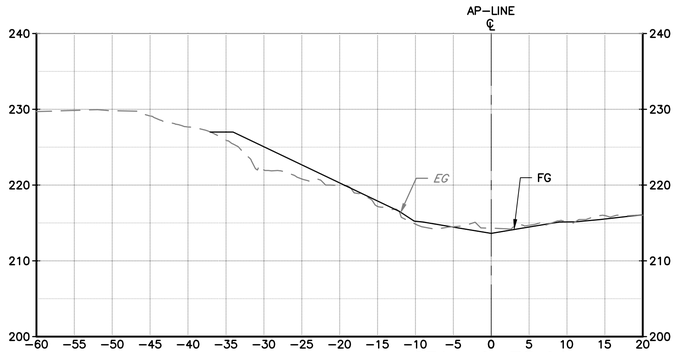
STA 10+00.00



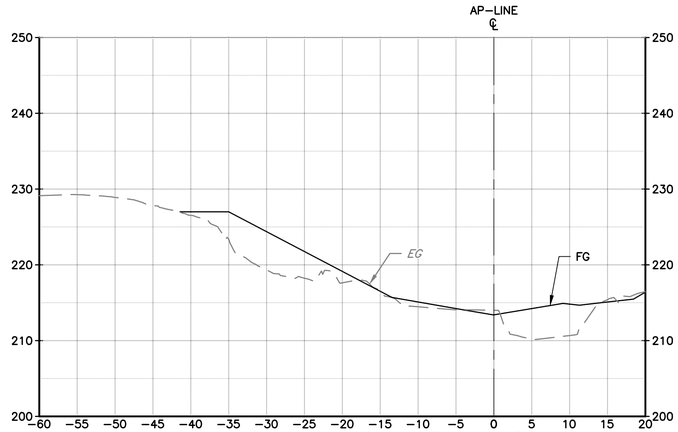
STA 10+25.00



STA 10+50.00



STA 10+75.00



STA 10+80.00

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
DESIGN	Y. LEE
DRAWN	R. SAINI
CHECKED	K. NEUMAN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — YOUHAN LEE — No. C42456 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

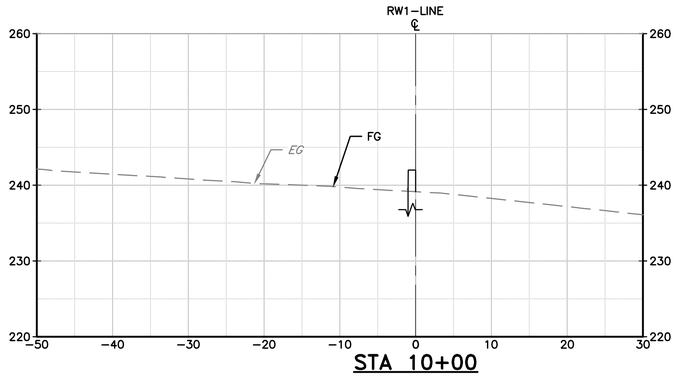
APPROACH CHANNEL CROSS SECTIONS

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:	X-04
SHEET NUMBER:	105

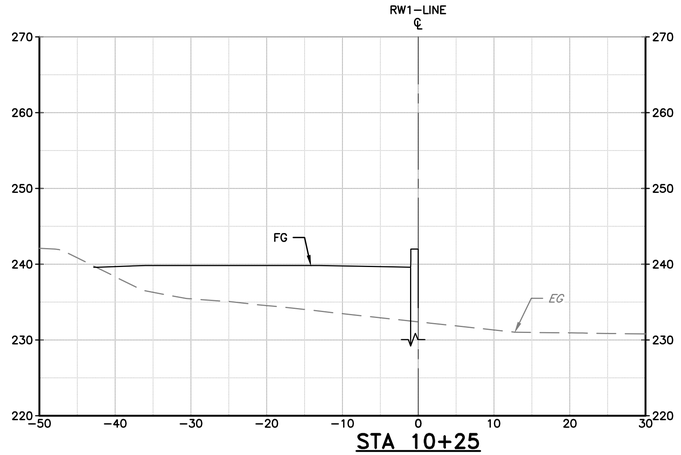
DOCUMENT NUMBER: COO-X-9248-75947

USERNAME: OscaReyn 1/12/2023 5:02 PM
FILENAME: K:\Active Projects\MP-91864009\Coyote Perc Dam Replacement\SHEETS\X-04.dwg

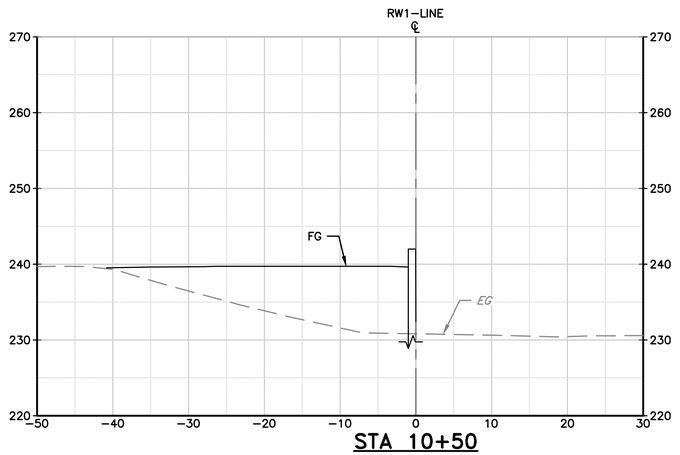
USERNAME: OscaReyn 1/12/2023 5:02 PM
FILENAME: K:\Active Projects\WP-91864009\Coyote Perc Dam Replacement\SHEETS\X-05.dwg



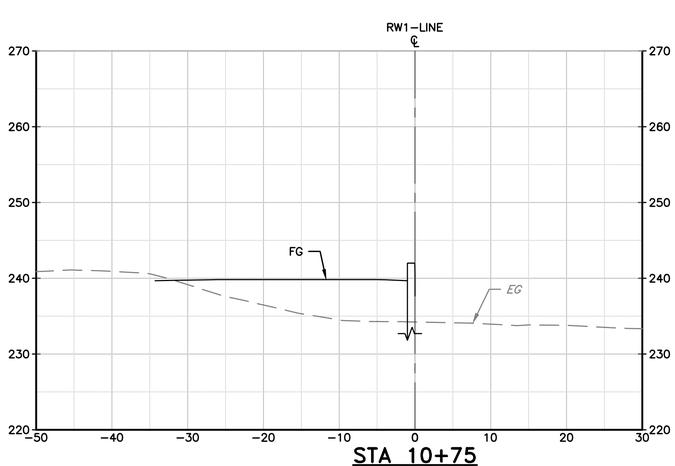
STA 10+00



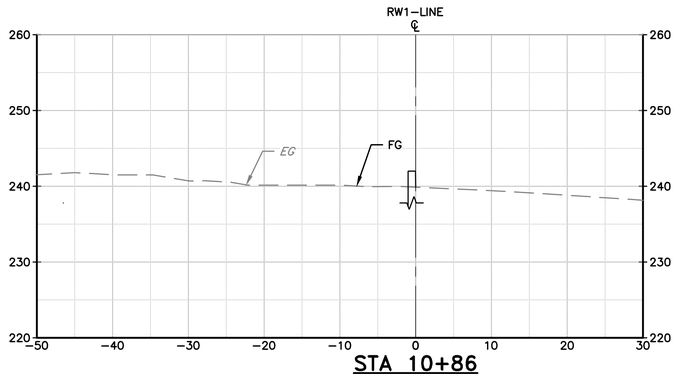
STA 10+25



STA 10+50



STA 10+75



STA 10+86

SECTIONS
SCALE: 1" = 10'

DOCUMENT NUMBER: COO-X-9248-75948

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	ENGINEERING CERTIFICATION
JAN 2023	REGISTERED PROFESSIONAL ENGINEER · JOUHAN LEE · No. C42456 · CIVIL · STATE OF CALIFORNIA
DESIGN Y. LEE	
DRAWN Z. KHAN	
CHECKED K. NEUMAN	PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

FOCP COYOTE PERCOLATION DAM REPLACEMENT PROJECT

RETAINING WALL CROSS SECTIONS

SCALE	PROJECT NUMBER
AS SHOWN	91864009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: X-05 SHEET NUMBER: 106