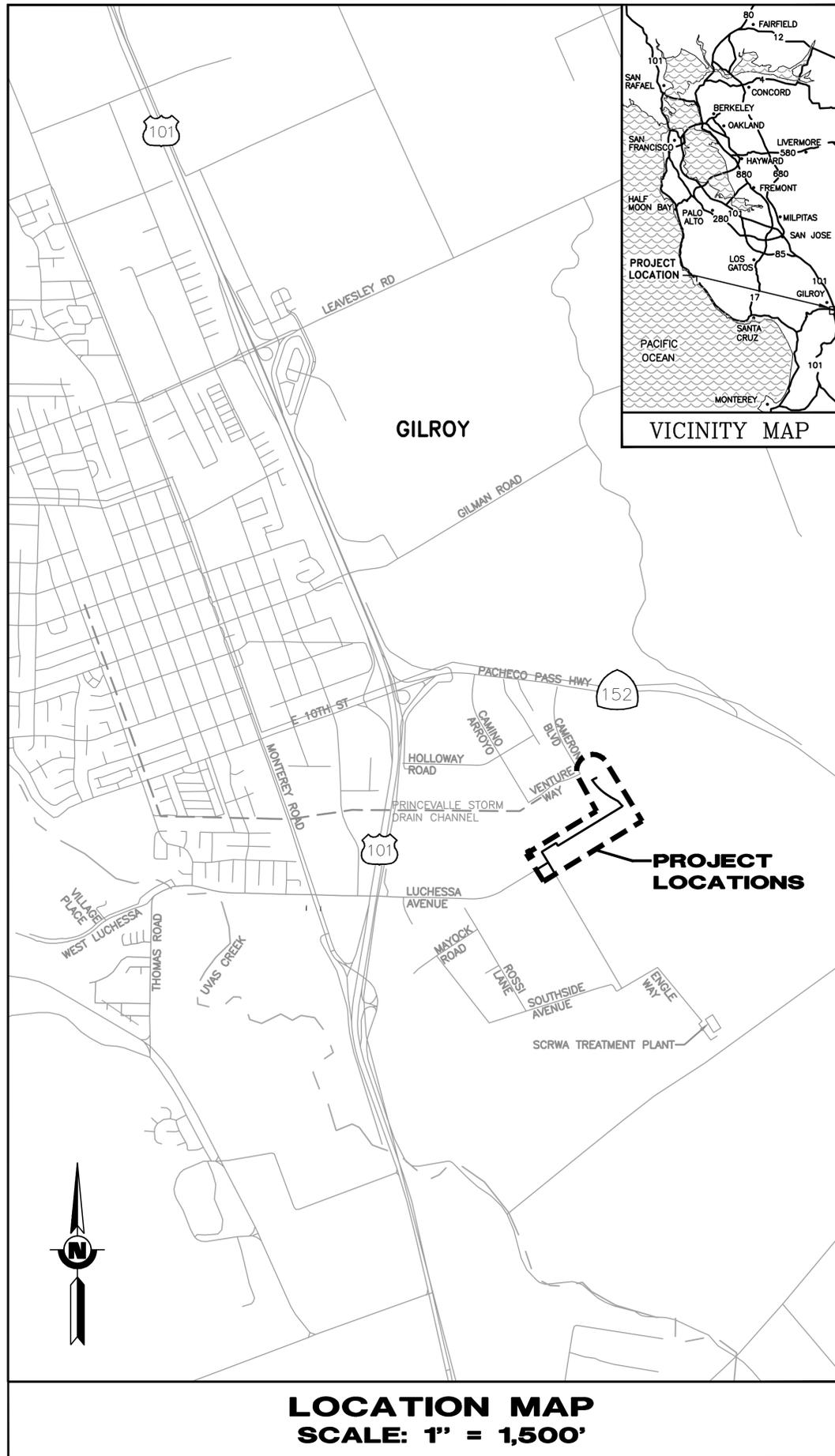


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DOCUMENT NUMBER: WAE-G-9109-86755



MAP AND CONSTRUCTION PLAN

FOR

SOUTH COUNTY RECYCLED WATER PIPELINE

PHASE 1C

SANTA CLARA VALLEY WATER DISTRICT



PREPARED BY:

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RAW WATER OPERATIONS & MAINTENANCE DIVISION

CONTRACT NUMBER	C0723
PROJECT NUMBER	91094009
SHEET CODE:	G-01
SHEET NUMBER: 1	
TOTAL SHEETS: 43	

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DOCUMENT NUMBER: WAE-G-9109-86756



INDEX MAP
 SCALE: 1" = 500'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN M. TAN		
DRAWN T. TRAN		
CHECKED J. RENTERIA		
ENGINEER		

PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 INDEX MAP

SCALE AS SHOWN	PROJECT NUMBER 91094009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: G-02
	SHEET NUMBER: 2

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REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE 7/8/2025	ENGINEERING CERTIFICATION DESIGN M. TAN	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION: SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C	SCALE AS SHOWN	PROJECT NUMBER 91094009
								SHEET INDEX	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: G-03 SHEET NUMBER: 3

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 DOCUMENT NUMBER: WAE-C-9109-86758

ABBREVIATIONS

ABM - AIR BLOWN MORTAR	MAINT - MAINTENANCE	V - VOLTAGE
ABS - ACRYLONITRILE-BUTADIENE-STYRENE	MAX - MAXIMUM	VAC - VOLTAGE ALTERNATING CURRENT
AC - ASPHALT CONCRETE	MCD - MULTIPLE CONDUITS	VCD - VACANT CONDUIT
ACP - ASBESTOS CONCRETE PIPE	MCI - MCI TELECOMMUNICATION CORP.	VCP - VITRIFIED CLAY PIPE
AISI - AMERICAN IRON & STEEL INSTITUTE	MH - MANHOLE	VERT - VERTICAL
ALIGN - ALIGNMENT	MIN - MINIMUM	
AMP - AMPERES	MON - MONUMENT	W - WATER
ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE	MW - MONITORING WELL	WP - WORK POINT
AP - ANGLE POINT		WSP - WELDED STEEL PIPE
APPROX - APPROXIMATE	N - NITROGEN	WSCL - WRAPPED STEEL CEMENT LINED
ARV - AIR RELEASE VALVE	N/A - NOT APPLICABLE	WV - WATER VALVE
ASA - AMERICAN STANDARD ASSOCIATION	NE - NORTHEAST	WWF - WELDED WIRE FABRIC
ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS	NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	WWTP - SCRWA WASTEWATER TREATMENT PLANT
AWG - AMERICAN WIRE GAGE	NIC - NOT IN CONTRACT	W/ - WITH
AWWA - AMERICAN WATER WORKS ASSOCIATION	NO - NUMBER	
	NTS - NOT TO SCALE	& - AND
BC - BEGIN CURVE	NW - NORTHWEST	@ - AT
BFV - BUTTERFLY VALVE		CL - CENTERLINE
BM - BENCH MARK	OC - ON CENTER	D - DIAMETER
BP - BEGINNING POINT	OD - OUTSIDE DIAMETER	P - PROPERTY LINE
BT - BACKHOE TRENCH	OF - OUTSIDE FACE	
BW - BOTH WAYS	OH - OVERHEAD	
	OW - OBSERVATION WELL	
CL - CENTERLINE		
CARV - COMBINATION AIR RELEASE VALVE	R - RADIUS	
CB - CATCH BASIN (INLET)	RCB - REINFORCED CONCRETE BOX	
CCCL - CEMENT MORTAR COATED & LINED STEEL PIPE	RCP - REINFORCED CONCRETE PIPE	
CCEM - CEMENT CONDUIT	RCW - RECYCLED WATER PIPELINE	
CCTL - CORROSION CONTROL TEST LEADS	RDJ - RESTRAINED DISMANTLING JOINT	
CCP - CONCRETE CYLINDER PIPE	RE - REFERENCE ELECTRODE	
CFM - CUBIC FEET PER MINUTE	REBAR - REINFORCING BAR	
CI - CAST IRON	REINF - REINFORCED	
CIDH - CAST-IN-DRILLED HOLE	REQ'D - REQUIRED	
CIP - CAST IRON PIPE	ROW - RIGHT OF WAY	
CL - CLEARANCE	RP - RADIUS POINT	
CLR - CLEAR	RR - RAILROAD	
CMC - CEMENT MORTAR COAT	RS - ROOF SUPPORT	
CML - CEMENT MORTAR LINED	RT - RIGHT	
CMP - CORRUGATED METAL PIPE	RTU - REMOTE TERMINAL UNIT	
CO - CLEAN OUT	R/W - RIGHT OF WAY	
CONC - CONCRETE		
CONT - CONTINUOUS	S - SLOPE	
CP - CEMENT PIPE	SCHED - SCHEDULE	
CPC - PLASTIC CONDUIT	SCRWA - SOUTH COUNTY REGIONAL WASTEWATER AUTHORITY	
CSP - CORRUGATED STEEL PIPE	SCVWD - SANTA CLARA VALLEY WATER DISTRICT	
CTP - CABLE TELEVISION POLE	SD - STORM DRAIN	
CTS - CORROSION TEST STATION	SE - SOUTHEAST	
CTV - CABLE TV	SHT - SHEET	
CU FT - CUBIC FEET	SJM - SAN JOSE MUNICIPAL WATER	
CYL - CYLINDER	SJWC - SAN JOSE WATER COMPANY	
CIPP - CAST-IN-PLACE PIPE	SOMCL - STANDARD OIL MASTIC CEMENT LINED	
CTS - CORROSION TEST STATION	SPECS - SPECIFICATIONS	
	SQ - SQUARE	
DH - DRILL HOLES	SS - SANITARY SEWER	
DI - DUCTILE IRON	SSTL - STAINLESS STEEL	
DIA - DIAMETER	ST - STREET	
DICL - DUCTILE IRON CEMENT LINED	STA - STATION	
DIP - DUCTILE IRON PIPE	STD - STANDARD	
DPDT - DOUBLE POLE DOUBLE THROW	STL - STEEL	
D/S - DOWNSTREAM	STRD - STRANDED	
DTL - DETAIL	SW - SOUTHWEST	
DWR - DEPARTMENT OF WATER RESOURCES	SYM - SYMMETRICAL	
EC - END CURVE	T - TELEPHONE	
ELB - ELBOW	t - THICKNESS OF PLATE OR DIMENSION OF WELD	
ELEC - ELECTRICAL	TBM - TEMPORARY BENCH MARK	
ELEV, EL - ELEVATION	TC - TELEMTRY CABLE	
EOP - EDGE OF PAVEMENT	TCA - TEMPORARY CONSTRUCTION AREA	
EP - END POINT	TCE - TEMPORARY CONSTRUCTION EASEMENT	
EXIST - EXISTING	TCS - TELEMTRY CABLE SPLICE	
	TEL - TELEPHONE	
FCA - FLANGED COUPLING ADAPTER	THW - THERMAL PLASTIC MOISTURE AND HEAT RESISTANT	
FF - FULL FORCE	THWN - THERMAL PLASTIC WITH NYLON COATING	
FG - FINISHED GRADE	TOB - TOP OF BANK	
FH - FIRE HYDRANT	TOP - TOP OF RCW PIPE	
FKCL - FIBERGLASS-KRAFT WRAP CEMENT LINED	TP - TEST PIT LOCATION	
FLG - FLANGE	TR - TAPE WRAPPED	
FP - FEEDER PRESSURE	TS - TRAFFIC SIGNAL	
FT - FEET	TYP - TYPICAL	
GA - GAGE	UG - UNDERGROUND	
GALV - GALVANIZED	UPRR - UNION PACIFIC RAILROAD	
GB - GRADE BREAK	U/S - UPSTREAM	
GFI - GROUND FAULT INTERRUPTER	USGS - UNITED STATES GEOLOGICAL SURVEY	
	UW - UTILITY/ NON-POTABLE WATER	
HC - HOUSE CONNECTION (SANITARY)		
HDPE - HIGH DENSITY POLYETHYLENE		
HMW/PE - HIGH MOLECULAR WEIGHT POLYETHYLENE		
HORIZ - HORIZONTAL		
HP - HIGH POINT		
ID - INSIDE DIAMETER		
IF - INSIDE FACE		
IL - INDUCTIVE LOOP		
IJTS - INSULATING JOINT TEST STATION		
IN - INCH		
INSUL - INSULATION		
INV - INVERT		
IP - IRON PIPE		
IPS - IRON PIPE SIZE		
JT - JOINT TRENCH		
KV - KILO VOLT		
LAT - LATERAL		
LB - CONDUIT FITTING ELBOW		
LG - LONG		
LLV - LONG LEG VERTICAL		
LPG - LIQUID PETROLEUM GAS LINE		
LT - LEFT		

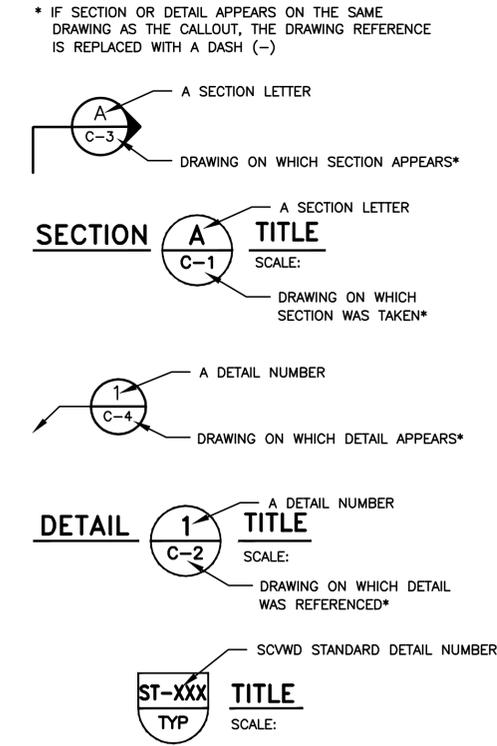
LINE TYPE LEGEND

EXISTING	PROPOSED

SYMBOLS LEGEND

EXISTING	PROPOSED

DETAIL AND SECTION DESIGNATION



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

- EXIST ELECTROLYLER
- EXIST ELECTROLYLER
- EXIST GUY WIRE
- EXIST STORM DRAIN OUTFALL
- PROPOSED TEST STATION/INSULATION JOINT

REV DATE DESCRIPTION DATE APPR REFERENCE INFORMATION AND NOTES	DATE 7/8/2025 DESIGN M. TAN DRAWN T. TRAN CHECKED J. RENTERIA ENGINEER	ENGINEERING CERTIFICATION ENGINEER	SANTA CLARA VALLEY WATER DISTRICT PROJECT NAME AND SHEET DESCRIPTION: SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C ABBREVIATIONS, LEGENDS, 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 91094009 SHEET CODE: G-04 SHEET NUMBER: 4
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GENERAL NOTES

- GENERAL NOTES APPLY TO ALL DRAWINGS.
- THE DESIGN HYDRAULIC GRADE LINE IS AT ELEVATION: 515 FEET.
- THE CONTRACTOR SHALL HAVE, AND COMPLY WITH, ALL REQUIRED PERMITS PRIOR TO BEGINNING ANY CONSTRUCTION WORK.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL FEDERAL, STATE, AND LOCAL CODES, APPLICABLE PERMITS, AND OSHA STANDARDS.
- ALL EXISTING FACILITIES, STRUCTURES, TREES, FENCES, LANDSCAPING, ETC., DESIGNATED "EXIST" OR SHOWN EXISTING (DASHED OR SCREENED LINES) ARE TO REMAIN. EXISTING UTILITIES SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES. ONLY THOSE SPECIFICALLY DESIGNATED FOR REMOVAL AS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER SHALL BE REMOVED.
- THE INDICATED LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND FACILITIES ARE APPROXIMATE ONLY. CONTRACTOR SHALL POTHOLE AND FIELD VERIFY ALL EXISTING UTILITIES BY POTHOLING PRIOR TO COMMENCING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS. SEE ARTICLE 24.03 OF SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS IN ADVANCE OF ANY EXCAVATION. (1-800-277-2600). THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS PRIOR TO EXCAVATION.
- CONTRACTOR SHALL NOT STOCKPILE OR STORE PARTS, MATERIALS, EQUIPMENT, AND/OR SPOILS AT, OR ON, DISTRICT PROPERTIES, EXCEPT POTENTIAL STAGING AREAS AS DESIGNATED IN THESE PLANS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE STOCKPILE AND STORAGE OF PARTS, MATERIALS, EQUIPMENT, AND SPOILS AND IS RESPONSIBLE FOR ANY OF ITS LOSS OR DAMAGE.
- CONTRACTOR SHALL BE AWARE THAT SITE PLANS ARE BASED ON 2006 ORTHO PHOTOS AND ARE PROVIDED SOLELY FOR LOCATION REFERENCE AND LOGISTICS PLANNING. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AS REQUIRED.
- SEE SHEETS G-06 AND G-07 FOR SURVEY DATA AND HORIZONTAL AND VERTICAL CONTROL INFORMATION.
- ALL EXISTING GROUND ELEVATIONS ARE APPROXIMATE ONLY AND MUST BE FIELD VERIFIED BY THE CONTRACTOR.
- CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN TO THE CITY OF GILROY AND ENGINEER FOR REVIEW AND APPROVAL.
- THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING GRADING. LOW SPOTS CREATED FROM CONSTRUCTION MUST BE GRADED TO DRAIN TO EXISTING DRAINAGE AREA.
- UNLESS INDICATED OTHERWISE, ALL ELEVATIONS SHOWN AT GRADE BREAKS AND MATCH LINES REFER TO TOP OF PIPE.
- UNLESS INDICATED OTHERWISE, ALL HORIZONTAL AND VERTICAL DISTANCES ARE IN FEET AND/OR DECIMALS OF A FOOT.
- WHERE JOINT TRENCH IS SHOWN ON THE DRAWINGS, THE JOINT TRENCH MAY CONSIST OF ANY COMBINATION OF GAS, ELECTRIC, TELEPHONE, CABLE TV OR FIBER OPTIC UTILITIES.
- NOT ALL SERVICE LATERALS, WHICH MAY INTERFERE WITH THE PROJECT, ARE SHOWN ON THE DRAWINGS.
- CONTRACTOR SHALL INVESTIGATE THE SITE AND BE AWARE OF ANY POSSIBLE LIMITED OVERHEAD CLEARANCES.
- CONTRACTOR SHALL PROVIDE VIBRATION MONITORING AND CONTROL CONSTRUCTION RELATED VIBRATIONS AS REQUIRED IN SPECIFICATIONS. SEE ARTICLE 18.03. VIBRATORY EQUIPMENT FOR PILE DRIVING OR OTHER WORK IS NOT ALLOWED.
- THE CONTRACTOR SHALL PROVIDE PRE-CONSTRUCTION STRUCTURAL SURVEYS OF ALL ADJACENT RESIDENCES, INCLUDING MOBILE HOMES, AS REQUIRED IN SPECIFICATIONS. SEE ARTICLE 16.04.
- PER ARTICLE 23.04, THE CONTRACTOR SHALL PERFORM ALL WORK REQUIRED FOR DISCHARGING TEST WATER.
- PHASE 1A PIPELINE AND EXISTING 12" RECYCLED WATER PIPELINE SHALL BE DRAINED, VIDEO INSPECTED, AND CLEANED BY CONTRACTOR PRIOR TO CONSTRUCTION. SEE ARTICLE 29.07, 29.09 AND 29.10 OF THE SPECIFICATIONS.
- AT ALL LOCATIONS WHERE NEW FACILITIES WILL BE TIED INTO EXISTING PIPELINE, REMOVED SECTIONS OF PIPELINE SHALL BE PROVIDED TO THE DISTRICT FOR METALLURGICAL ANALYSIS.
- WHERE THE WORK IS DEPENDENT UPON THE DIMENSIONS OF EXISTING FACILITIES, THE CONTRACTOR SHALL VERIFY THE DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND CONSTRUCTION.
- CONTRACTOR SHALL FIELD-VERIFY ALL DIMENSIONS FOR ALL NEW INSTALLATIONS AND NOTIFY THE ENGINEER OF ALL DISCREPANCIES.
- CONTRACTOR SHALL REFER TO ARTICLE 13.05 FOR CONTRACTOR'S ENGINEERING AND DESIGN.

PIPELINE PHASE STATION RANGES

- PHASE 1B - STA 1+22 TO STA 8+98 AND STA 38+00 TO STA 119+80
- PHASE 2A - STA 119+80 TO STA 152+15
- PHASE 2B - STA 152+15 TO STA 182+32
- PHASE 1C - STA 300+00 TO STA 332+03

GENERAL NOTES - PIPE

- UNLESS OTHERWISE SHOWN IN THE DRAWINGS, ALL FLANGES ARE AWWA CLASS E.
- ALL IN-VAULT, IN-UTILITY BOX AND EXPOSED APPURTENANCES (AIR-RELEASE VALVES, BUTTERFLY VALVES, FLANGE COUPLING ADAPTERS, BALL VALVES, FLANGES, PIPING, ETC.) SURFACES SHALL BE PREPARED AND COATED/PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- THREAD ANTI-SIEZE COMPOUND SHALL BE USED ON ALL BOLT THREADS AND THREADED CONNECTIONS. ALL BOLTED CONNECTIONS SHALL BE TORQUED ACCORDING TO AWWA C207 AND M11.
- INSTALL NON-SHRINK WATERSTOP CEMENT MORTAR GROUT BETWEEN VAULT AND UTILITY BOX EXTENSION RINGS. ALL SUB-GRADE VAULT AND UTILITY BOX PIPE AND CABLE PENETRATIONS SHALL BE GROUTED AND SEALED WITH NONSHRINK WATERSTOP GROUT AND POLYURETHANE SEALANT OR EQUAL.
- BACKFILL AROUND CHRISTY BOXES IN PAVED AREAS OR CONCRETE SIDEWALKS SHALL BE CONCRETE SLURRY OR CONTROL DENSITY FILL. BACKFILL AROUND CHRISTY BOXES IN UNPAVED AREAS (DIRT/TRAIL) SHALL BE RESTORED TO ORIGINAL CONDITION.
- UTILITY BOX ORIENTATION AND PLACEMENT SHALL BE AS DEPICTED ON THE SITE PLANS. UTILITY BOXES SHALL BE PLACED AND ORIENTED TO MINIMIZE DISRUPTION TO EXISTING SURROUNDINGS. PLACEMENT SHALL BE CONFIRMED BY THE ENGINEER IN THE FIELD PRIOR TO PLACEMENT.
- CONTRACTOR SHALL PREPARE AND COAT/PAINT ALL NEW IN-VAULT METAL PIPELINES APPURTENANCES, AND ACCESSORY ASSEMBLY SURFACES. GALVANIZED AND ALUMINUM SURFACES SHALL NOT BE INCLUDED.
- CONTRACTOR SHALL REPAIR THE CEMENT MORTAR LINING OF PIPELINE ASSEMBLIES PRIOR TO REINSTALLATION. UNLESS SPECIFIED OTHERWISE, SIKATOP 123 PLUS OR EQUAL SHALL BE USED FOR ALL CEMENT MORTAR LINING REPAIRS. CEMENT MORTAR LINING REINFORCEMENT MESH SHALL BE PLACED AND SECURED IN A ACCORDANCE WITH APPLICABLE AWWA 303 REQUIREMENTS.
- IN NEW PIPELINE CROSSINGS BELOW SANITARY SEWER, JOINTS SHALL NOT BE WITHIN 8 FEET OF CROSSING.

CORROSION CONTROL NOTES

- RECYCLED WATER PIPELINE SHALL BE BONDED TO THE EXISTING AND NEW RECYCLED WATER PIPELINE REACHES FOR CATHODIC PROTECTION.
- CORROSION TEST STATIONS SHALL BE INSTALLED AT ALL VAULTED APPURTENANCES, CASING TERMINATIONS AND INSULATING JOINT LOCATIONS.
- ALL NON-WELDED, NON-INSULATING JOINTS (INCLUDING ALL LATERALS AND RISERS FOR APPURTENANCES) SHALL BE BONDED WITH HMWPE INSULATED COPPER CABLE FOR ELECTRICAL CONTINUITY OF THE RECYCLED WATER PIPELINE. FOR CABLE SIZE AND QUANTITY PER JOINT.
- AFTER COMPLETION, THE SYSTEM SHALL BE TESTED OR ENERGIZED AND TESTED UNDER THE SUPERVISION OF THE ENGINEER.
- ALL BURIED MECHANICAL PIPE JOINTS SHALL ADHERE TO SHEET CP-02, DET 7.

WWTP HAUL ROUTE/STAGING NOTES:

- THE CONTRACTOR IS ADVISED THAT SOUTH COUNTY REGIONAL WASTE WATER AUTHORITY (SCRWA) PERSONNEL WILL UTILIZE ENGLE WAY, SOUTHSIDE DRIVE AND THE ACCESS ROADS AND GATES LOCATED ALONG ENGLE WAY AND SOUTHSIDE DRIVE TO GAIN ACCESS TO THEIR FACILITY. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS REQUIRED BY SCRWA AND SHALL FULLY COOPERATE WITH SCRWA PERSONNEL SO AS TO NOT HINDER OR INTERRUPT THE ASSIGNED TASK OF SAID PERSONNEL.
- CONTRACTOR SHALL COORDINATE ACTIVITIES SUCH THAT SCRWA FACILITY OPERATIONS ARE NOT IMPACTED.
- CONTRACTOR SHALL NOT IMPEDE ACCESS TO SCRWA FACILITY FROM ENGLE WAY AND SOUTHSIDE DRIVE.
- ACCESS ROADS WITHIN JOB SITE
 - THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ACCESS ROAD TO ALL STAGING, OFFICE TRAILER, AND STORAGE AREAS AND OTHER AREAS TO WHICH FREQUENT ACCESS IS REQUIRED. MAINTAIN ACCESS TO ALL OTHER EXISTING FACILITIES ON THE SITE, INCLUDING ACCESS FOR DELIVERY OF MATERIALS AND FOR MAINTENANCE AND OPERATION.
 - WHERE TEMPORARY ROADS CROSS BURIED UTILITIES THAT MIGHT BE DAMAGED BY THE LOADS LIKELY TO BE IMPOSED, SUCH UTILITIES SHALL BE ADEQUATELY PROTECTED SO THAT NO LOADS SHALL DISCHARGE ON SUCH BURIED UTILITIES.
 - ON-SITE ACCESS ROADS SHALL BE FREE OF MUD. UNDER NO CIRCUMSTANCE SHALL VEHICLES LEAVING THE SITE TRACK MUD OR DIRT OFF THE SITE ONTO PUBLIC RIGHT-OF-WAY.
 - THE CONTRACTOR WILL BE PERFORMING WORK AT AN OPERATIONAL FACILITY WHICH IS CRITICAL AND MUST REMAIN IN CONTINUOUS OPERATION AT ALL TIMES. THE CONTRACTOR SHALL SCHEDULE AND PERFORM HIS/HER WORK SUCH THAT THERE IS NO DISRUPTION TO THE FACILITY OPERATIONS AND ACCESS. ACCESS TO THE FACILITY AND ALL PORTIONS OF THE FACILITY SHALL BE MAINTAINED AT ALL TIMES FOR THE STAFF.
 - THE CONTRACTOR SHALL COORDINATE THE TRENCHING ACTIVITIES, SUCH AS TRENCHING FOR PIPING THAT WILL CROSS ACCESS ROADS AT THE SCRWA'S PLANT ENTRY GATES AND AT SEVERAL OTHER LOCATIONS, WITH THE ENGINEER, AND SHALL PROVIDE TRAFFIC STEEL PLATES AS REQUIRED TO MAINTAIN PLANT ACCESS. NO ACCESS INTERRUPTION TO ANY PORTION OF THE PLANT WILL BE ALLOWED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 10 DAYS IN ADVANCE OF ANY PLANNED TRENCHING OR EXCAVATION CROSSING ANY ACCESS ROAD.
- CONSTRUCTION HAUL ROUTES AND DETOUR ROADWAYS, ALSO USED FOR SCRWA OPERATIONS, MAINTENANCE, AND TRUCK DELIVERY TRAFFIC, SHALL BE MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL IMPROVE THE EXISTING CONDITION OF THE HAUL/DETOUR ROUTES TO ELIMINATE POTHOLES AND MAKE IT SAFE AND PASSABLE BY VEHICLES AND HEAVY TRUCK TRAFFIC. MAINTENANCE SHALL INCLUDE DUST CONTROL, GRADING AND ROADWAY REPAIRS AS NECESSARY DURING THE CONSTRUCTION PERIOD. AT THE END OF CONSTRUCTION, ROUTES SHALL BE LEFT IN AN IMPROVED CONDITION, PASSABLE BY PASSENGER VEHICLE AND TRUCK DELIVERY TRAFFIC.
- ALL ITEMS DELIVERED TO THE SITE SHALL BE UNLOADED AND PLACED IN A MANNER WHICH WILL NOT: (1) HAMPER THE CONTRACTOR'S NORMAL CONSTRUCTION OPERATION OR THOSE OF SUBCONTRACTORS AND OTHER CONTRACTORS; (2) INTERFERE WITH THE FLOW OF NECESSARY TRAFFIC; AND (3) INTERFERE WITH SCRWA'S AND THE DISTRICT'S NORMAL OPERATIONS AND MAINTENANCE ACTIVITIES. IN ADDITION, THE CONTRACTOR SHALL:
 - PROVIDE NECESSARY EQUIPMENT AND PERSONNEL TO UNLOAD ALL ITEMS DELIVERED TO THE SITE.
 - PROMPTLY INSPECT SHIPMENT TO ASSURE THAT PRODUCTS COMPLY WITH REQUIREMENTS, QUANTITIES ARE CORRECT AND ITEMS ARE UNDAMAGED. FOR ITEMS FURNISHED BY OTHERS (I.E., DISTRICT, OTHER CONTRACTORS), PERFORM INSPECTION IN THE PRESENCE OF THE ENGINEER. NOTIFY ENGINEER VERBALLY, AND IN WRITING, OF ANY PROBLEMS.
- MATERIAL AND EQUIPMENT STORAGE AREAS SHALL BE SUITABLY FENCED AND SECURED, IF NECESSARY, TO PROTECT THE PUBLIC, WORKERS, SCRWA AND DISTRICT STAFF, AND THE MATERIALS AND EQUIPMENT FROM DAMAGE OR THEFT.
- UNLESS OTHERWISE DESIGNATED IN THE CONTRACT DOCUMENTS, LOCATIONS FOR STORAGE SITES FOR MATERIALS AND EQUIPMENT OUTSIDE THE SCRWA/DISTRICT'S PROPERTY LINES, LIMITS OF WORK, OR RIGHT-OF-WAY, SHALL BE SELECTED AND MAINTAINED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE. FULL COMPENSATION FOR FURNISHING SUCH STORAGE SITES AS MAY BE NECESSARY OR REQUIRED BY THE CONTRACTOR SHALL BE CONSIDERED AS INCLUDED IN BID PRICE AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED THEREFORE. DISTRICT SHALL BE SPECIFICALLY EXEMPTED IN ANY AGREEMENT FROM ANY LIABILITY INCURRED FROM THE USE OF PRIVATE PROPERTY FOR CONSTRUCTION PURPOSES. USE OF PORTIONS OF THE DISTRICT'S AREA AT THE SITE FOR MATERIALS AND EQUIPMENT STORAGE SHALL BE PERMITTED ONLY UPON THE APPROVAL OF THE ENGINEER.

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DOCUMENT NUMBER: WAE-C-9109-86759

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE 7/8/2025	ENGINEERING CERTIFICATION 	SANTA CLARA VALLEY WATER DISTRICT 	PROJECT NAME AND SHEET DESCRIPTION: SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C	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 91094009
								GENERAL NOTES		SHEET CODE: G-05
										SHEET NUMBER: 5

USERNAME: TungTian 7/11/2025 4:08 PM
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DOCUMENT NUMBER: WAE-G-9109-86760

SURVEY CONTROL INFORMATION

HORIZONTAL DATUM: CALIFORNIA COORDINATE SYSTEM 83 ZONE III EPOCH 2009.00 (CCS83 (2009.00) ZONE III)

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 88 (NAVD88), EPOCH JUNE 22, 2008

UNIT OF MEASURE: U.S. SURVEY FEET

HORIZONTAL CONTROL				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
20023	1819074.76	6258540.06	174.09	REBAR/CAP IN CENTERLINE OF LEVEE, DOWN 0.25 FEET
20029	1819883.08	6259144.69	175.68	REBAR/CAREBAR/CAP IN CENTERLINE OF LEVEE, DOWN 0.24 FEET
20030	1819224.83	6259606.88	175.07	REBAR/CAP AT SOUTHERLY SIDE OF LEVEE
20037	1818729.32	6255959.16	175.20	IP IN MON BOX AT SOUTHSIDE DRIVE AND ROSSI LANE, RCE 13769
20039	1820410.45	6254931.68	180.98	IP IN MON BOX AT MAYOCK ROAD AND ROSSI LANE, RCE 13769, DOWN 0.52 FEET
20051	1817944.90	6260222.60	161.77	MAGNAIL AND TIN IN ASPHALT ROAD
20052	1821161.28	6254419.14	183.13	MAG NAIL AND TIN IN PARKING LOT OF 655 E. LUCHESSA AVE.
20056	1816900.86	6260440.08	161.88	REBAR/CAP IN CENTERLINE OF ROAD WESTERLY OF POND WITH TAN LINER
22906	1823117.56	6255946.05	179.89	BRASS DISK IN MON BOX AT INTERSECTION OF CAMINO ARROYO AND VENTURE WAY
22907	1823419.79	6256384.71	176.19	BRASS DISK IN MON BOX 500 FEET NORTHEASTERLY OF CAMINO ARROYO AND VENTURE WAY
22908	1823715.46	6257008.39	177.92	BRASS DISK IN MON BOX AT INTERSECTION OF VENTURE WAY AND CAMERON BLVD.
23020	1821676.90	6253061.81	187.45	MAG NAIL AND TIN AT NORTHERLY END OF JAMIESON WAY
23024	1821415.21	6252428.93	189.96	MAG NAIL AND TIN IN CENTERLINE OF CHESTNUT STREET AT #6310
23034	1821467.13	6250955.30	193.07	IP IN MONBOX AT STRATFORD PL AND HYDE PARK DRIVE
40001	1820728.09	6247968.35	226.96	BRASS DISK IN MON BOX IN CENTERLINE OF CUL DE SAC AT 6370 BLACKBERRY CT.
42006	1821305.46	6246829.98	236.36	BRASS DISK IN MON BOX, RCE # 25281, AT 6470 VILLAGE PL, DOWN 0.68 FEET
42012	1819906.30	6247309.67	237.67	BRASS DISK IN MON BOX AT 6300 RASBERRY CT, DOWN 0.45 FEET
42013	1819404.76	6246039.02	263.38	BRASS DISK IN MON BOX, RCE # 8859, IN CENTERLINE OF OAK BROOK WAY BETWEEN #1015 AND #1025, DOWN 0.51 FEET

VERTICAL CONTROL				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM 263	1820723.01	6260437.16	170.89	BRASS DISK ON CONCRETE BRIDGE DECK AT THE NORTHEASTERLY CORNER OF SOUTHSIDE DRIVE BRIDGE OVER LLAGAS CREEK
BM 310	1821323.34	6248592.14	223.21	BRASS DISK ON CONCRETE BRIDGE DECK AT THE NORTHEASTERLY CORNER OF LUCHESSA AVE BRIDGE OVER UVAS-CARNADERO CREEK, 2.5 FEET SOUTH OF HEADWALL AND 23 FEET WEST OF EAST END OF HEADWALL

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION
DESIGN M. TAN	
DRAWN T. TRAN	
CHECKED J. RENTERIA	
ENGINEER	

SANTA CLARA VALLEY WATER DISTRICT

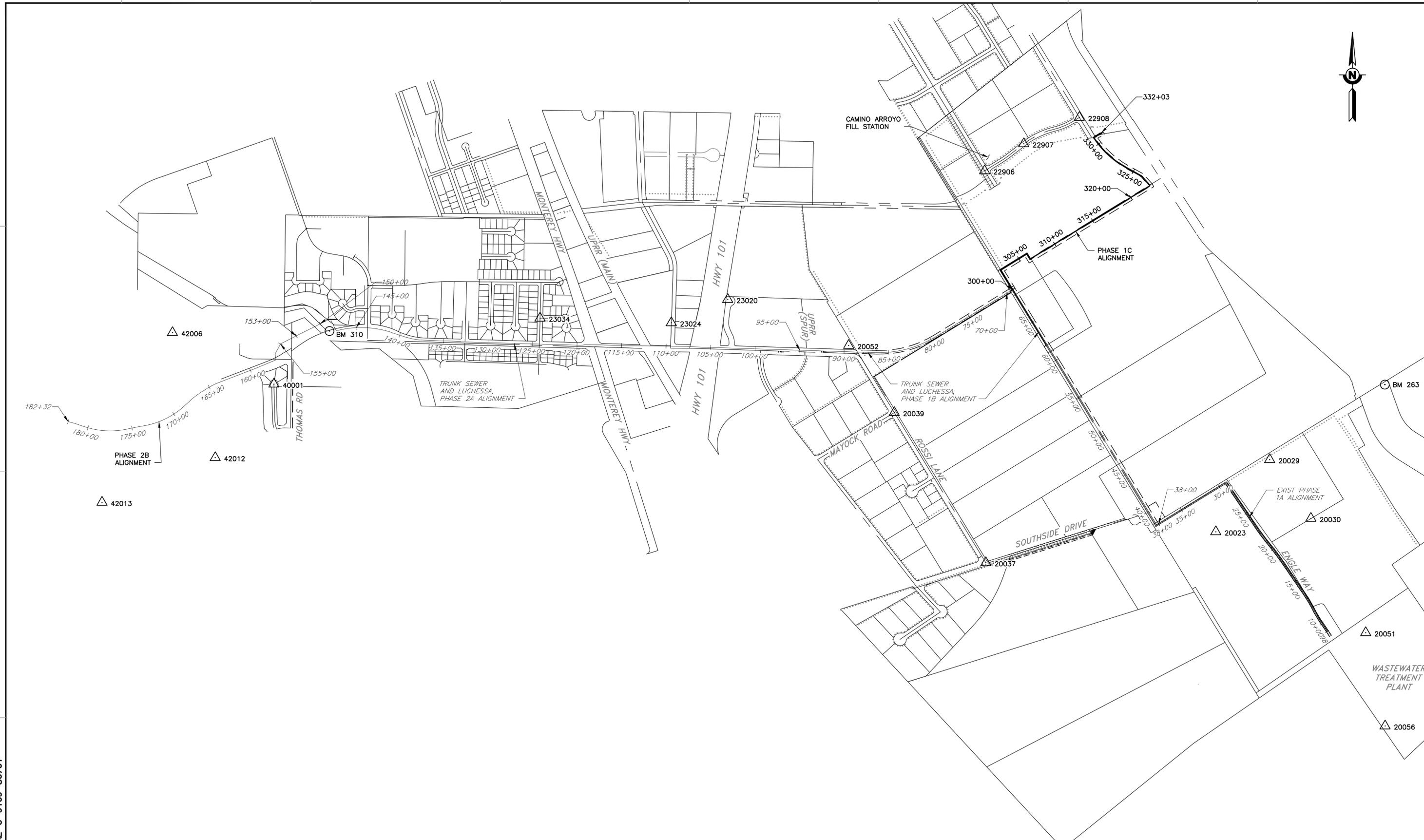


PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 SURVEY CONTROL INFORMATION

SCALE AS SHOWN	PROJECT NUMBER 91094009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: G-06
	SHEET NUMBER: 6

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DOCUMENT NUMBER: WAE-G-9109-86761



REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION
DESIGN M. TAN	
DRAWN T. TRAN	
CHECKED J. RENTERIA	
ENGINEER	

SANTA CLARA VALLEY WATER DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 SURVEY CONTROL MAP

SCALE
 1" = 500'

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

PROJECT NUMBER
91094009

SHEET CODE:
G-07

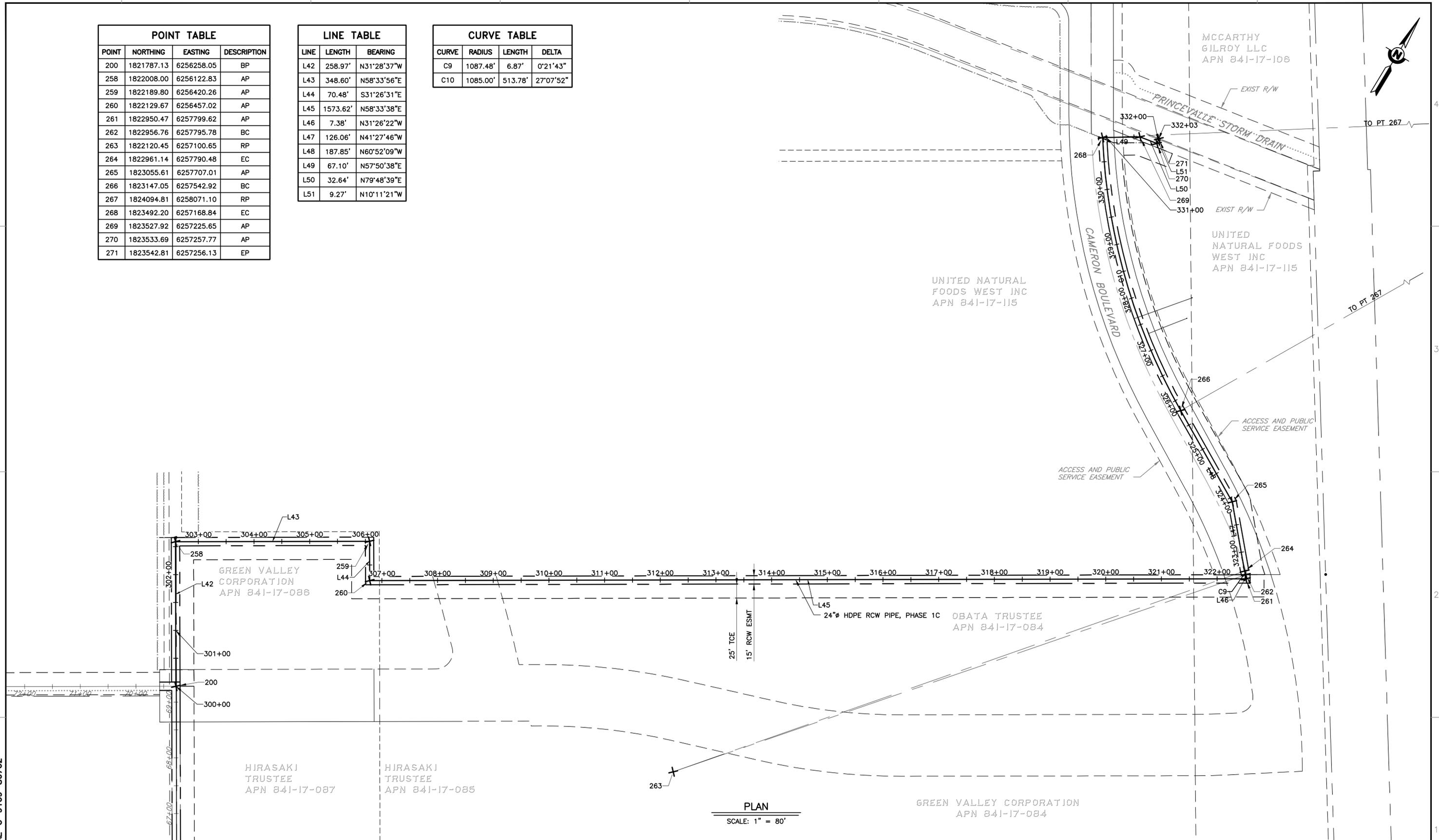
SHEET NUMBER:
 7

USERNAME: TungTran 7/11/2025 4:09 PM
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POINT TABLE			
POINT	NORTHING	EASTING	DESCRIPTION
200	1821787.13	6256258.05	BP
258	1822008.00	6256122.83	AP
259	1822189.80	6256420.26	AP
260	1822129.67	6256457.02	AP
261	1822950.47	6257799.62	AP
262	1822956.76	6257795.78	BC
263	1822120.45	6257100.65	RP
264	1822961.14	6257790.48	EC
265	1823055.61	6257707.01	AP
266	1823147.05	6257542.92	BC
267	1824094.81	6258071.10	RP
268	1823492.20	6257168.84	EC
269	1823527.92	6257225.65	AP
270	1823533.69	6257257.77	AP
271	1823542.81	6257256.13	EP

LINE TABLE		
LINE	LENGTH	BEARING
L42	258.97'	N31°28'37"W
L43	348.60'	N58°33'56"E
L44	70.48'	S31°26'31"E
L45	1573.62'	N58°33'38"E
L46	7.38'	N31°26'22"W
L47	126.06'	N41°27'46"W
L48	187.85'	N60°52'09"W
L49	67.10'	N57°50'38"E
L50	32.64'	N79°48'39"E
L51	9.27'	N10°11'21"W

CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
C9	1087.48'	6.87'	0°21'43"
C10	1085.00'	513.78'	27°07'52"

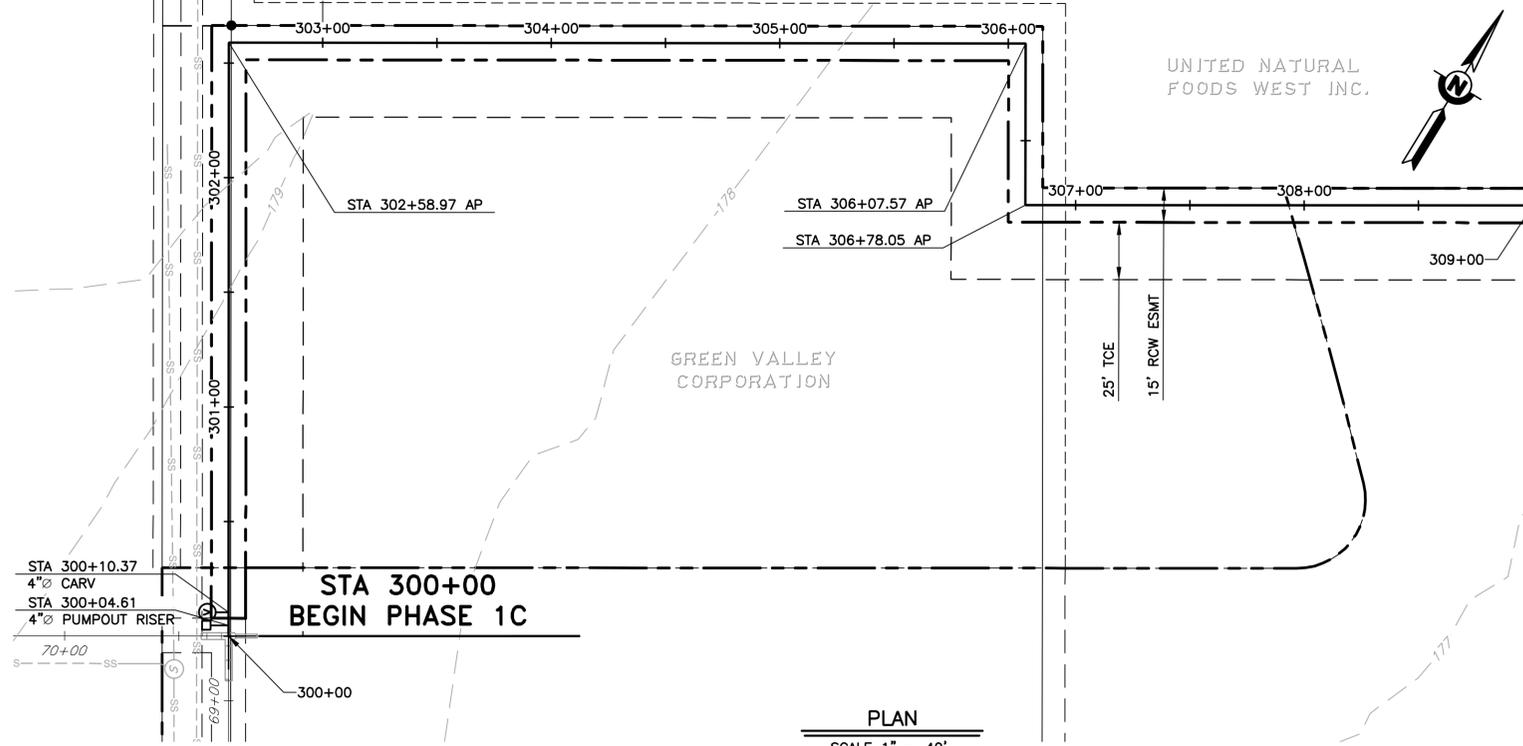


PLAN
 SCALE: 1" = 80'

DOCUMENT NUMBER: WAE-C-9109-86762

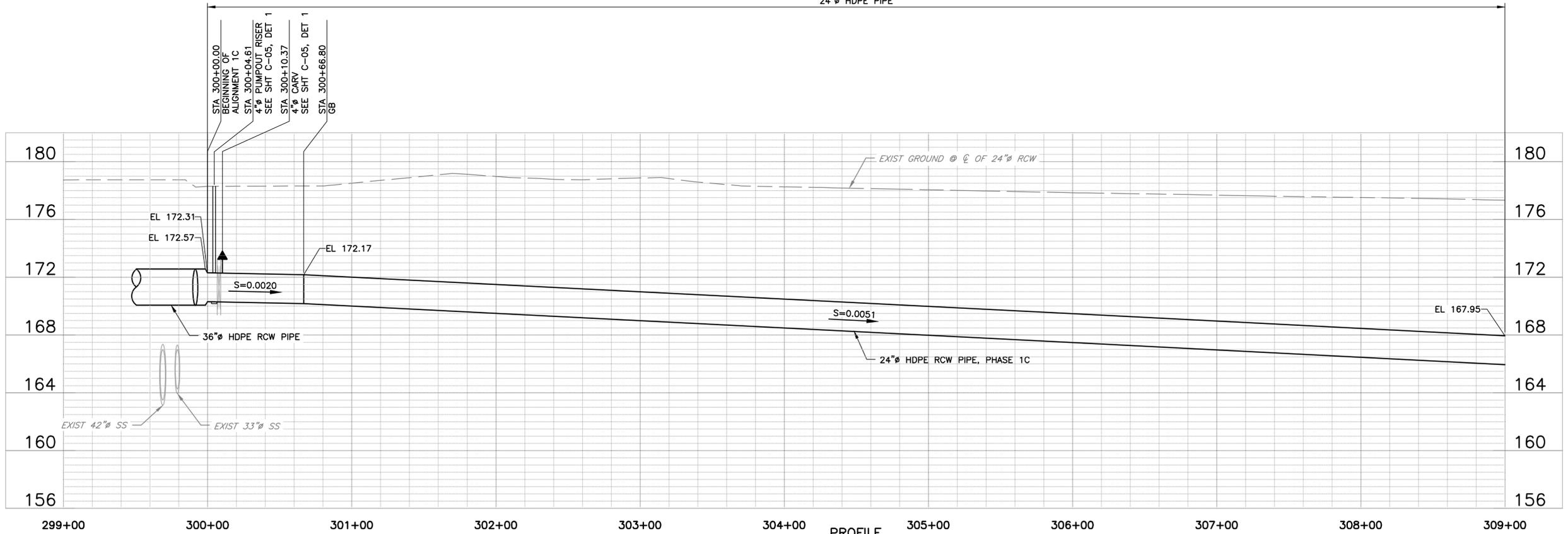
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PLAN
 SCALE 1" = 40'
 24"Ø HDPE PIPE

STA 309+00 - MATCH LINE - SEE SHEET C-02

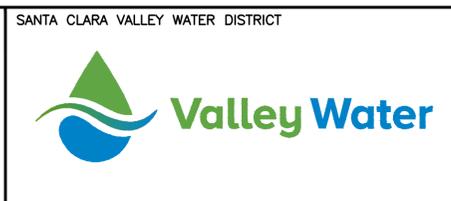


PROFILE
 HORIZ: 1" = 40'
 VERT: 1" = 4'

DOCUMENT NUMBER: WAE-C-9109-86763

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE
7/8/2025
 DESIGN
M. TAN
 DRAWN
T. TRAN
 CHECKED
J. RENTERIA
 ENGINEER



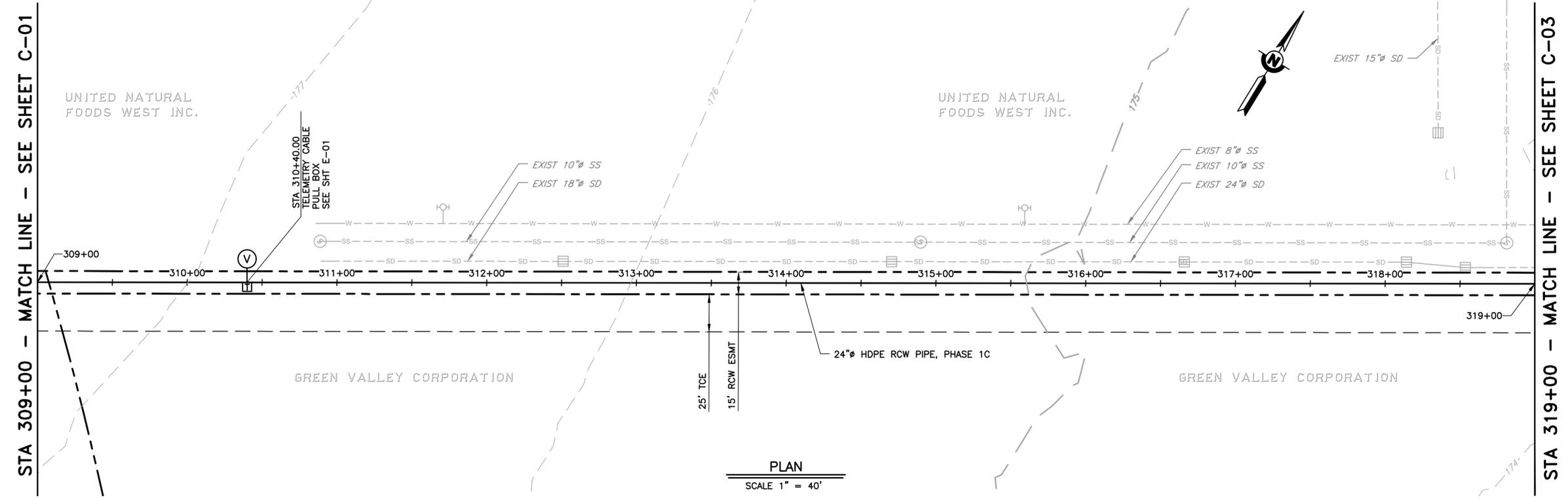
PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 PLAN AND PROFILE STA 300+00 TO 309+00

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

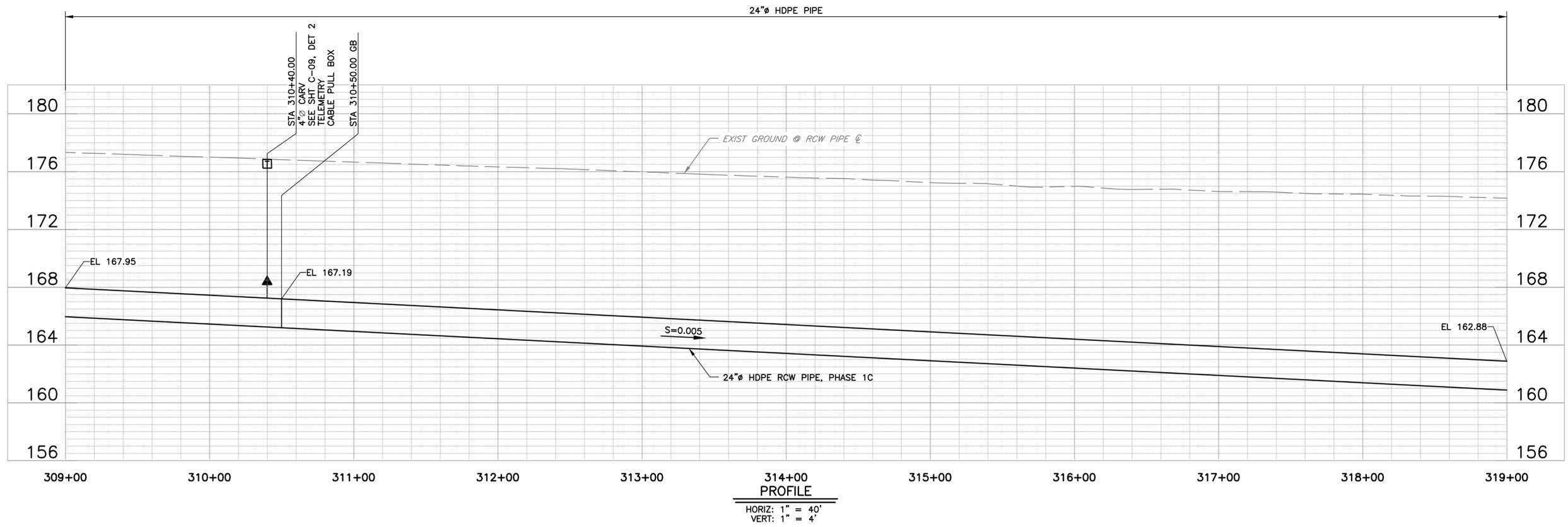
PROJECT NUMBER
91094009
 SHEET CODE:
C-01
 SHEET NUMBER:
9

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DOCUMENT NUMBER: WAE-C-9109-86764



PLAN
 SCALE 1" = 40'

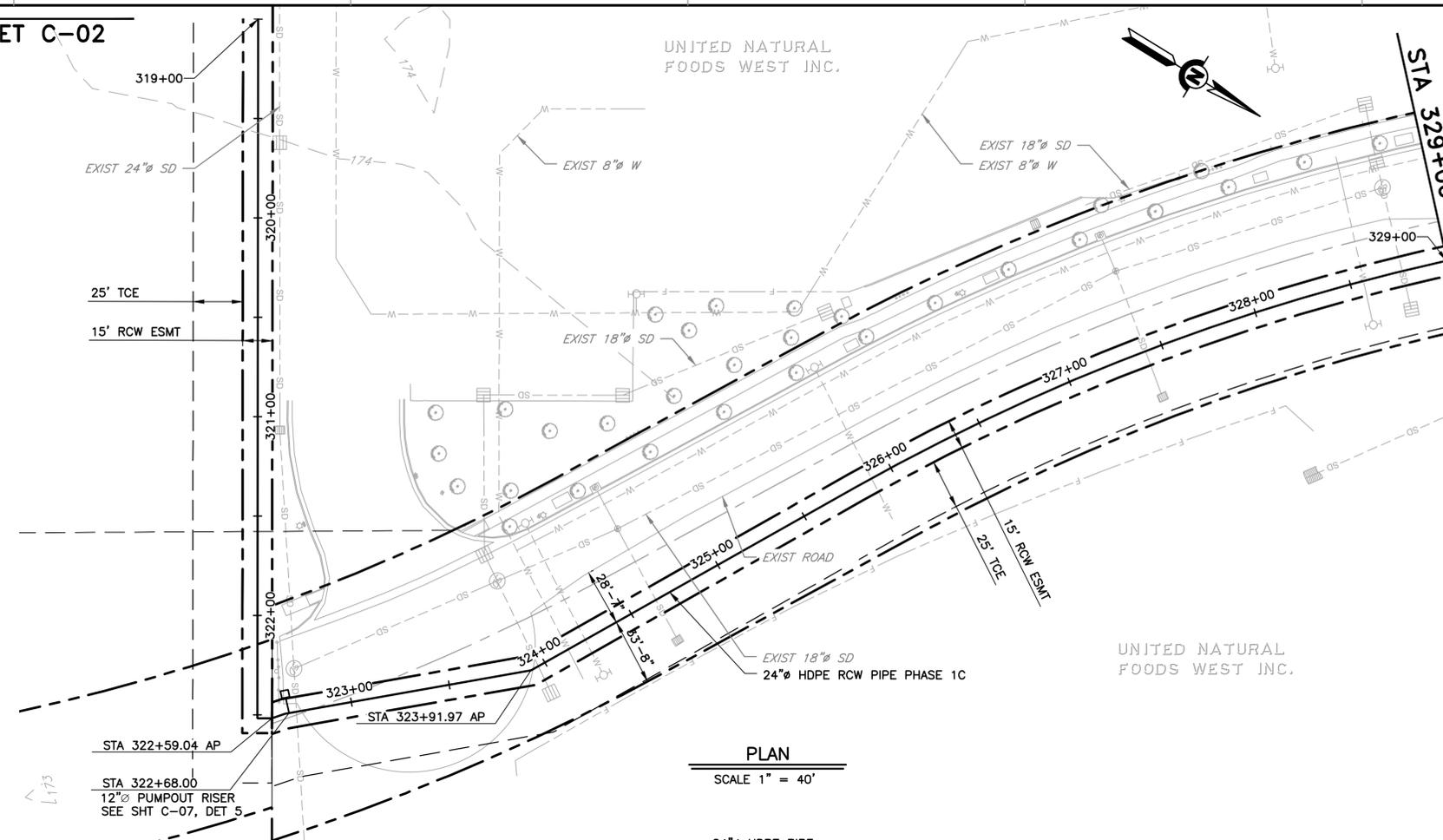


314+00 PROFILE
 HORIZ: 1" = 40'
 VERT: 1" = 4'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
					7/8/2025			SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C	0 1" 0	91094009
								PLAN AND PROFILE STA 309+00 TO 319+00	<small>VERIFY SCALES</small> <small>BAR IS ONE INCH ON ORIGINAL DRAWING</small> <small>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</small>	C-02
										<small>SHEET NUMBER: 10</small>

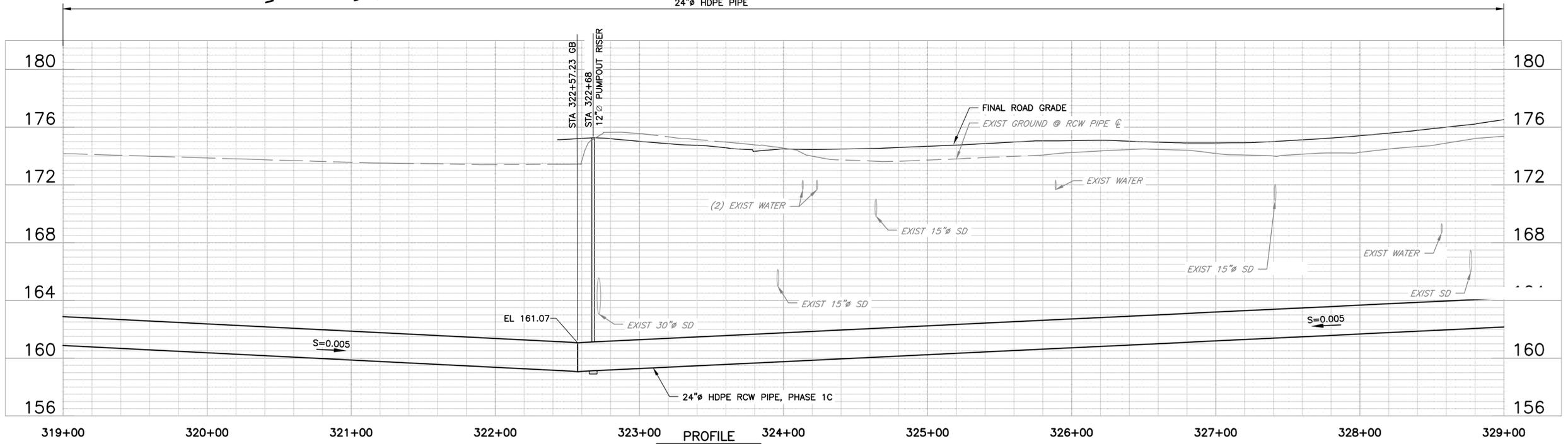
STA 319+00 - MATCH LINE - SEE SHEET C-02

STA 329+00 - MATCH LINE - SEE SHEET C-04



PLAN

SCALE 1" = 40'



PROFILE

HORIZ: 1" = 40'
VERT: 1" = 4'

USERNAME: TungTran 7/11/2025 4:09 PM
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DOCUMENT NUMBER: WAE-C-9109-86765

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION
DESIGN M. TAN	
DRAWN T. TRAN	
CHECKED J. RENTERIA	
ENGINEER	

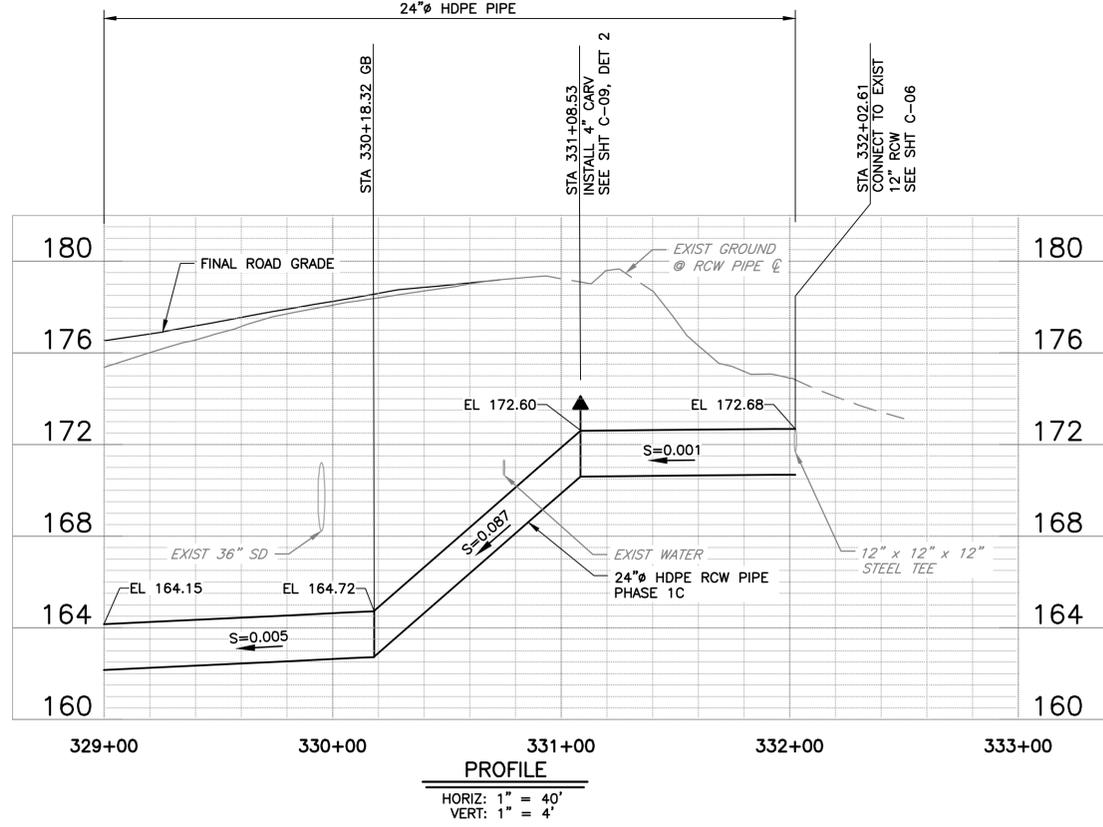
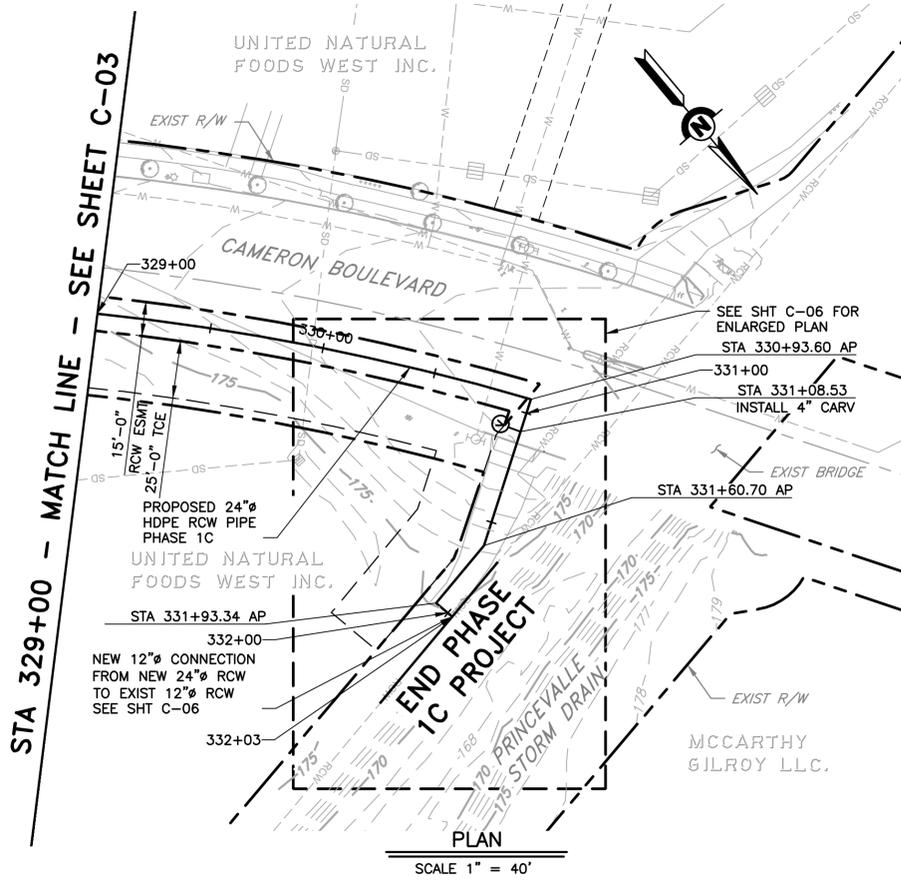
SANTA CLARA VALLEY WATER DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 PLAN AND PROFILE STA 319+00 TO 329+00

SCALE AS SHOWN	PROJECT NUMBER 91094009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-03
	SHEET NUMBER: 11

USERNAME: TungTran 7/11/2025 4:09 PM
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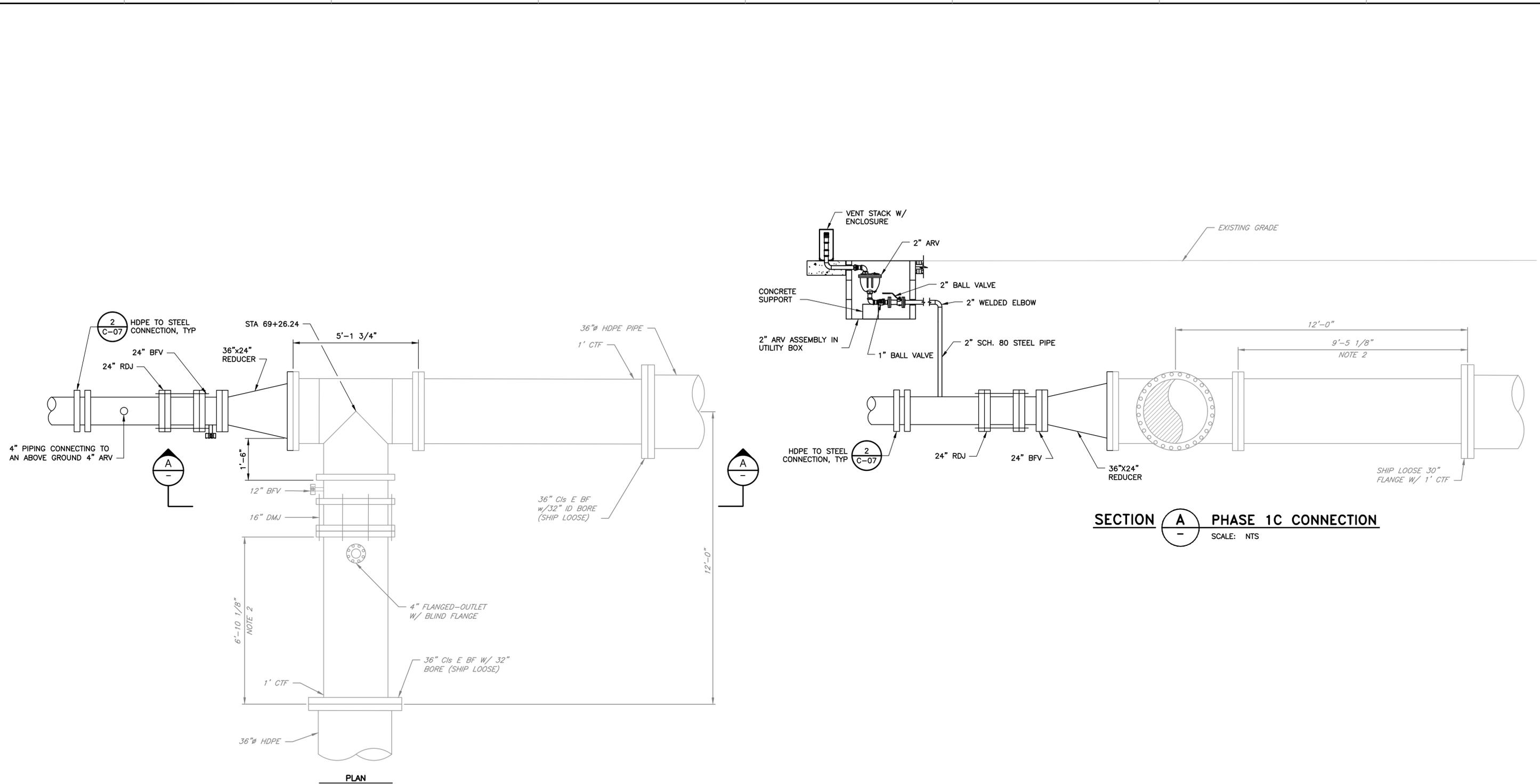
REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION SANTA CLARA VALLEY WATER DISTRICT
DESIGN M. TAN	
DRAWN T. TRAN	
CHECKED J. RENTERIA	
ENGINEER	

PROJECT NAME AND SHEET DESCRIPTION: SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C	SCALE AS SHOWN	PROJECT NUMBER 91094009
PLAN AND PROFILE STA 329+00 TO 332+50	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-04
		SHEET NUMBER: 12

USERNAME: T:\ng\Tung\Tung 7/11/2025 4:10 PM
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DOCUMENT NUMBER: WAE-C-9109-86767



NOTES:

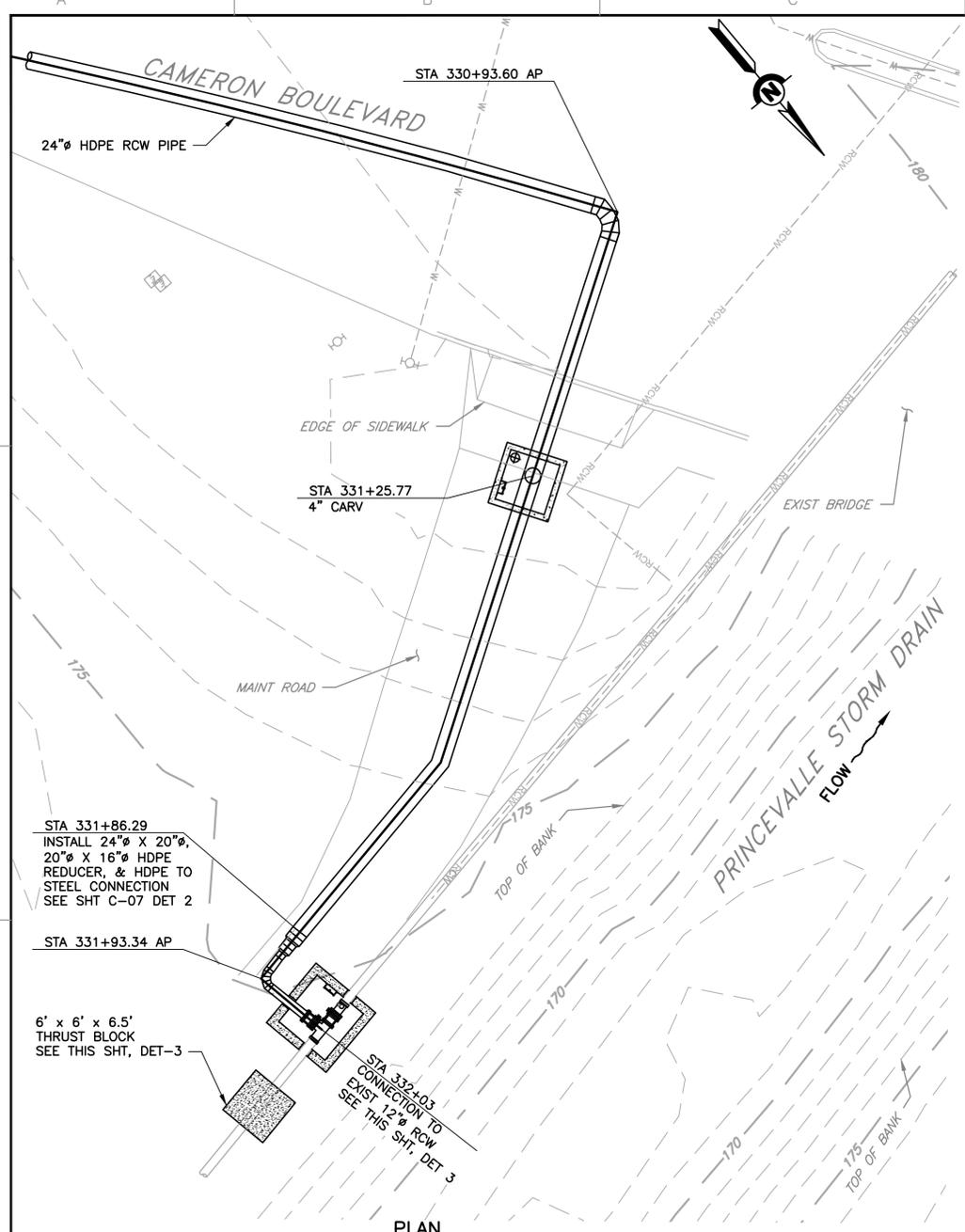
1. INSTALLATION CONTRACTOR TO VERIFY AND CONFIRM ALL DIMENSIONS SHOWN ON THE DRAWINGS HEREIN.
2. UNLESS SHOWN OTHERWISE, ALL PIPE SHALL BE CEMENT MORTAR LINED AND COATED (CMLxCMC).

DETAIL 1 PHASE 1C CONNECTION
 SCALE: NTS

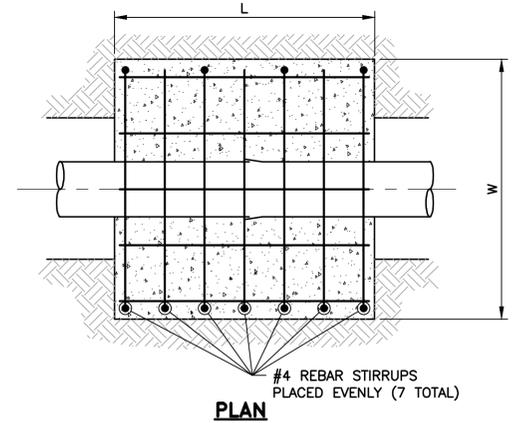
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					7/8/2025			SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C	0 1" SCALE BAR	91094009
						J. RENTERIA		DETAILS AND SECTION PHASE 1C CONNECTION	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-05 SHEET NUMBER: 13

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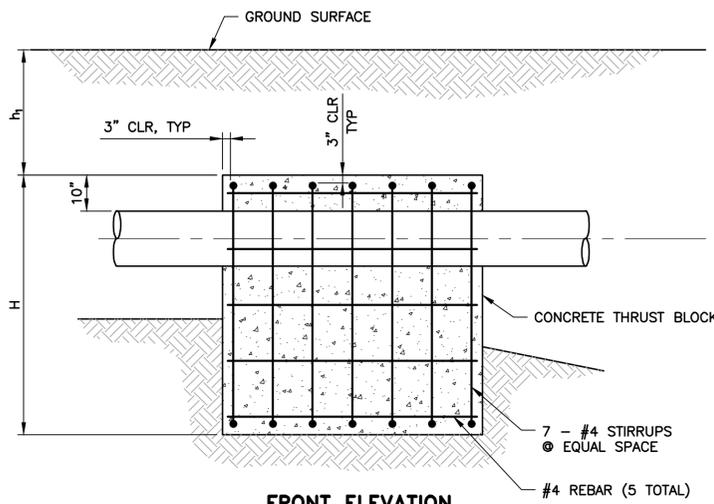
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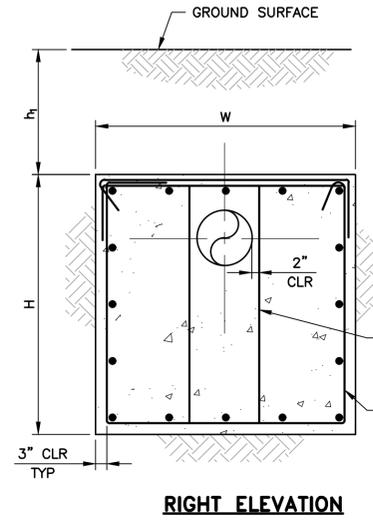
PLAN
 SCALE 1" = 10'



PLAN
 #4 REBAR STIRRUPS
 PLACED EVENLY (7 TOTAL)

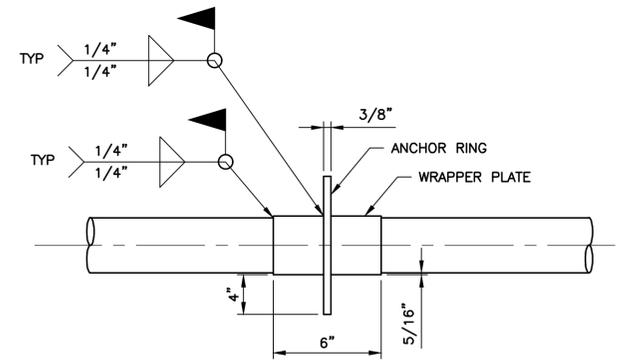


FRONT ELEVATION



RIGHT ELEVATION

DETAIL 1 CONCRETE THRUST BLOCK
 SCALE: 1" = 10'



NOTES:

- ANCHOR RING REQUIRED FOR EXISTING 12" WSP MAIN LINE WHERE SHOWN ON SHT C-35. CENTER ANCHOR RING WITHIN THRUST BLOCK.
- REMOVE AND REPAIR COATING AS REQUIRED.
- REFER TO PROJECT SPECIFICATIONS FOR EXIST RCW PIPE MATERIAL.
- INSTALL WRAPPER IN 2 PIECES WITH FULL DEPTH BUTT WELDS.

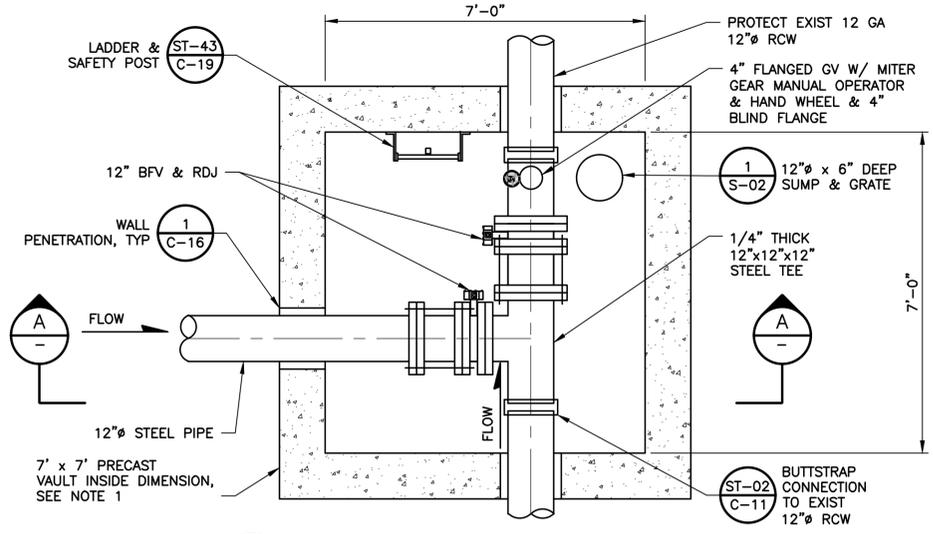
DETAIL 2 ANCHOR RING FOR EXISTING 12" WSP MAIN LINE
 SCALE: NTS

THRUST BLOCK DIMENSIONS (FT)				
PIPE SIZE (INCHES)	(SEE NOTE BELOW)	H	W	L
12"	-	6	6.5	6

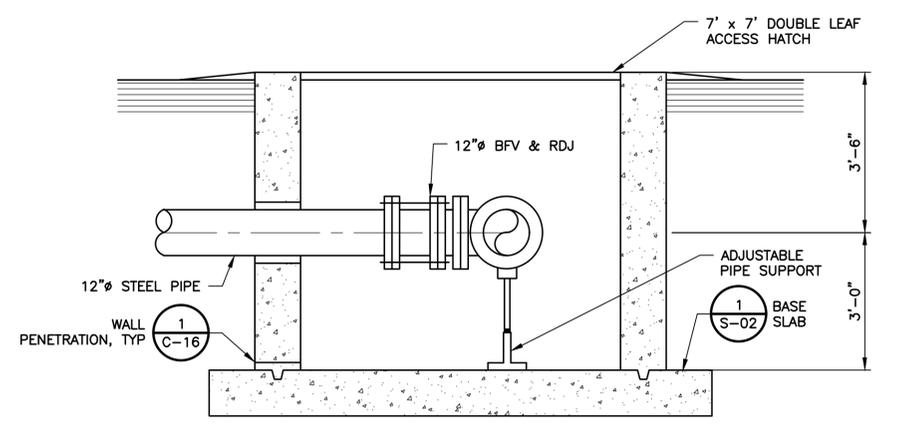
FOR h₁, REFER TO SHT C-04

NOTE:

- FOR 12" WSP, INSTALL ANCHOR RING PER DET 2, THIS SHT.



DETAIL 3 PHASE 1C CONNECTION TO EXIST 12" RCW @ STA 331+87 VAULT
 SCALE: 1" = 2'



SECTION A PHASE 1C CONNECTION TO EXIST 12" RCW @ STA 331+87 VAULT
 SCALE: 1" = 2'

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

- SEE SHEET R-03 FOR 12" RCW AS-BUILT.
- CONTRACTOR SHALL DRAIN, CLEAN AND VIDEO INSPECT EXISTING 12" RCW PRIOR TO CONNECTION TO NEW 12" RCW WSP.

DATE: 7/8/2025
 DESIGN: M. TAN
 DRAWN: T. TRAN
 CHECKED: J. RENTERIA
 ENGINEER: DATE

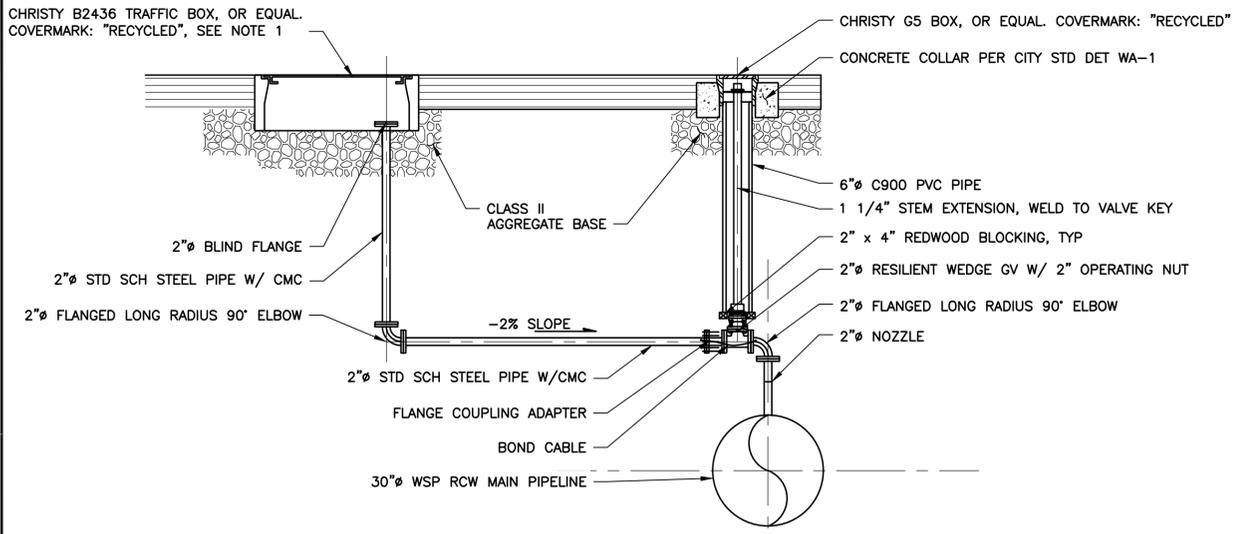
ENGINEERING CERTIFICATION
 SANTA CLARA VALLEY WATER DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 ENLARGED PLAN FOR CONNECTION TO EXIST 12" RCW PIPE

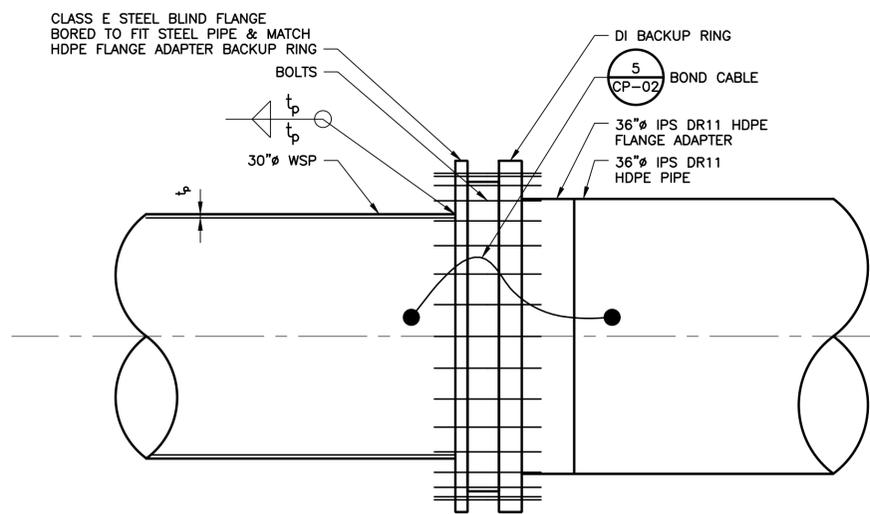
SCALE: AS SHOWN
 VERIFY SCALES
 0 1"
 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 91094009
 SHEET CODE: C-06
 SHEET NUMBER: 14

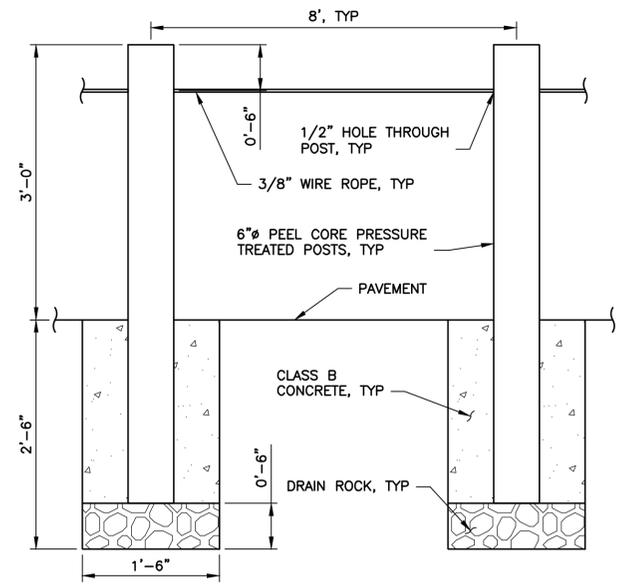
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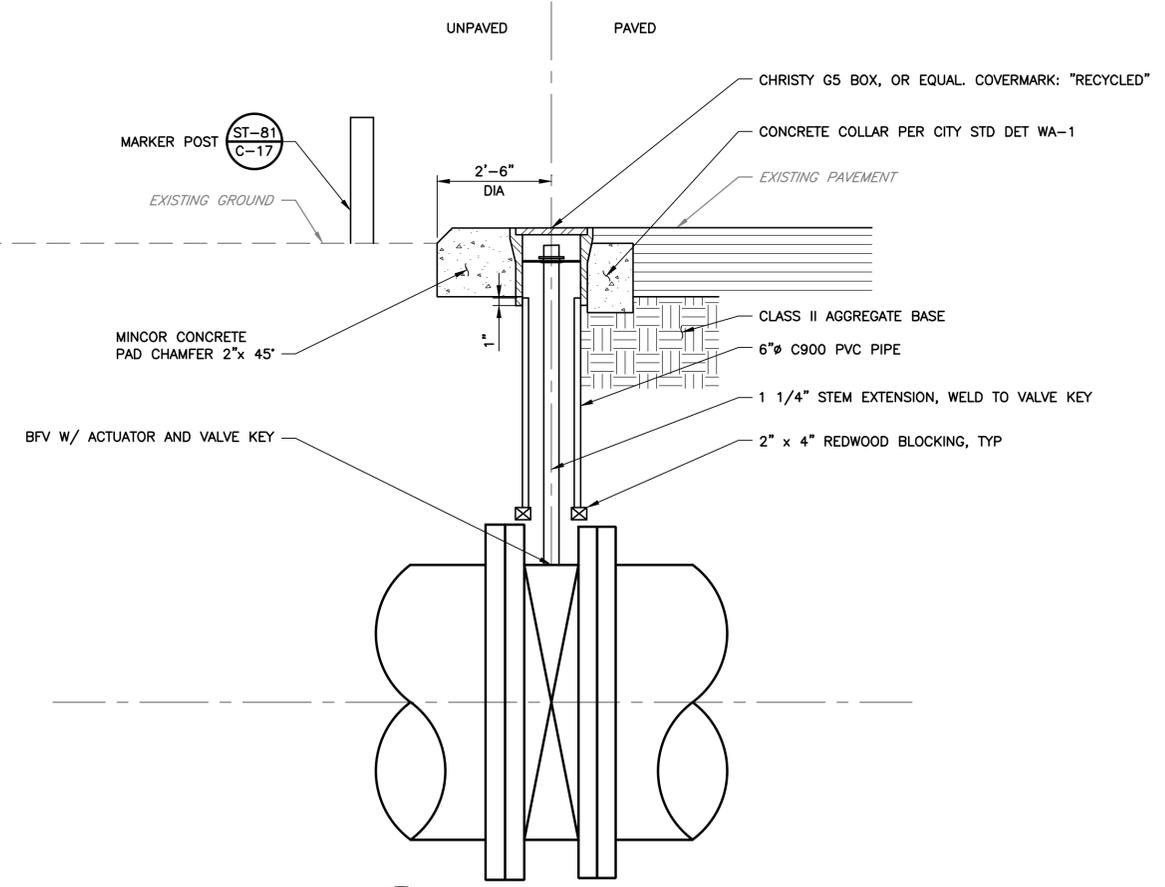
DETAIL 1 2" RECYCLED WATER TURNOUT ASSEMBLY
SCALE: NTS



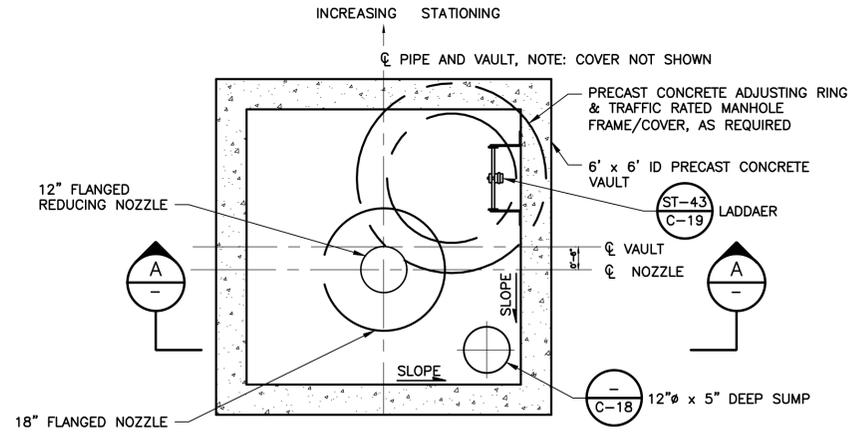
DETAIL 2 HDPE TO STEEL CONNECTION
SCALE: NTS



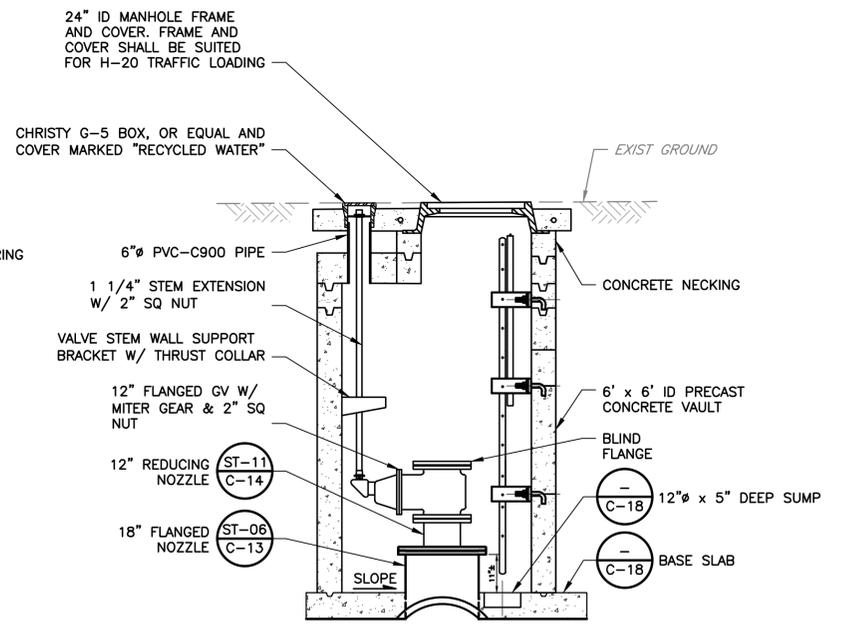
DETAIL 3 WOOD POST & CABLE
SCALE: NTS



DETAIL 4 STEM EXTENSION
SCALE: NTS

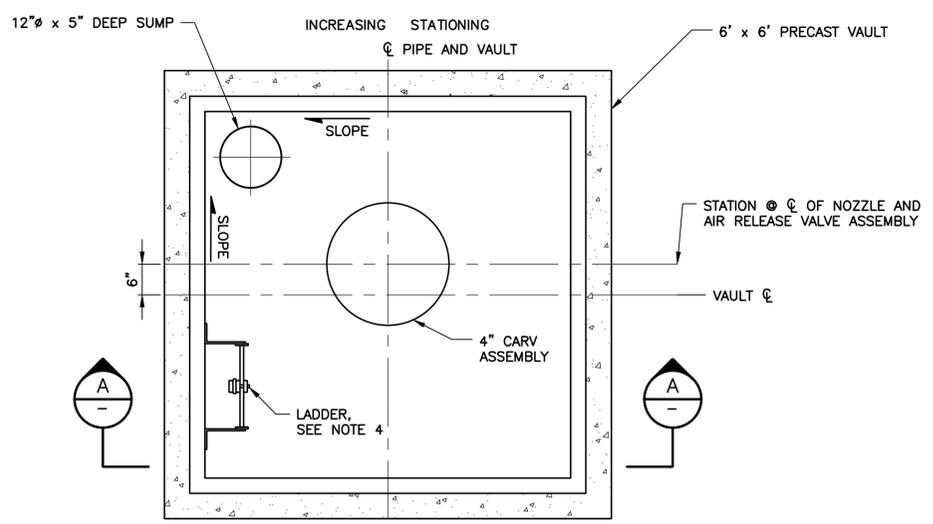


DETAIL 5 TRAFFIC RATED PUMP OUT RISER
SCALE: NTS

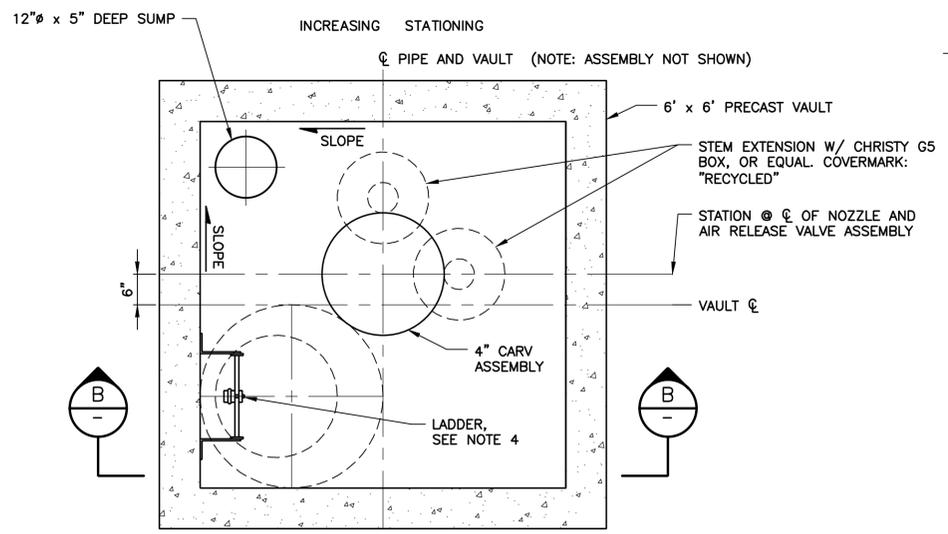


SECTION A TRAFFIC RATED PUMP OUT RISER
SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
				1. TRAFFIC BOXES AND STUBOUT SHALL BE PLACED IN THE CENTER MEDIAN ISLANDS WHEN POSSIBLE.	7/8/2025			SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C	AS SHOWN	91094009
								MISCELLANEOUS DETAILS	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	C-07
										SHEET NUMBER: 15



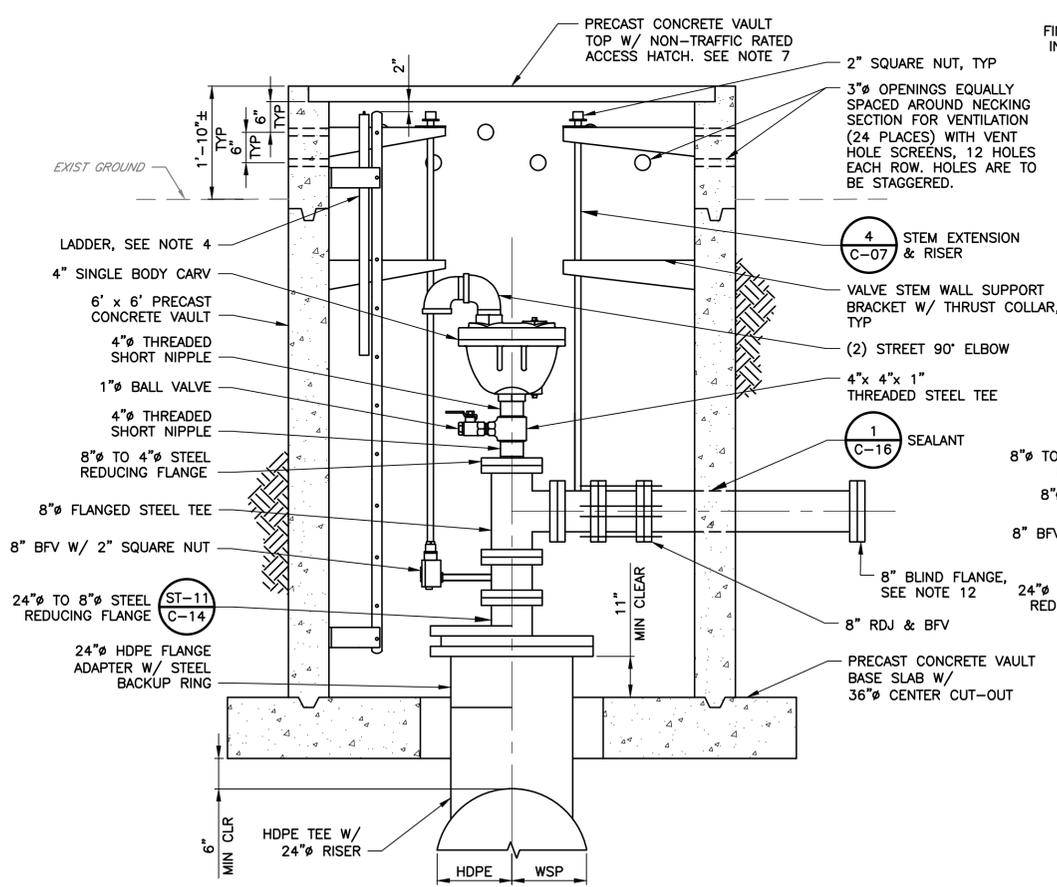
DETAIL 1
CARV IN RAISED VAULT AND SERVICE TURNOUT
 SCALE: NTS



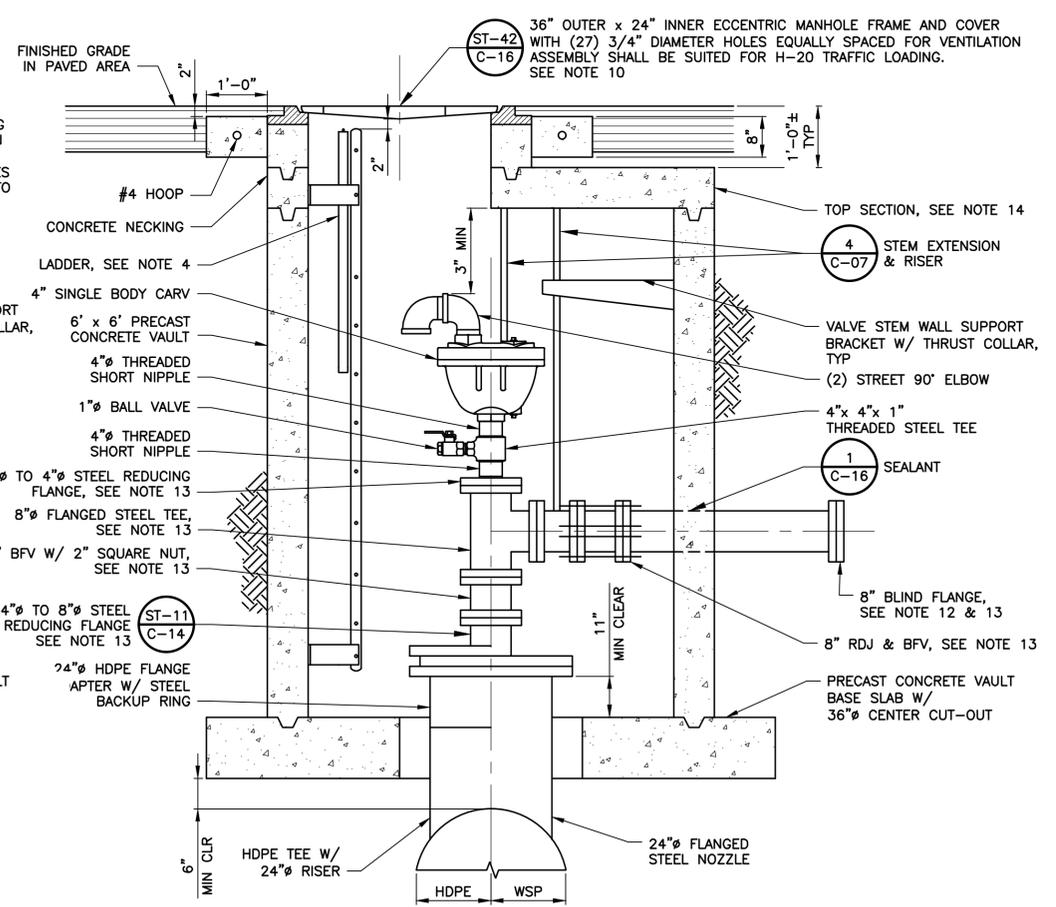
DETAIL 2
CARV IN TRAFFIC RATED VAULT AND SERVICE TURNOUT
 SCALE: NTS

NOTES:

- FOR SIZE AND LOCATION OF NOZZLES, TURNOUTS, AND AIR RELEASE VALVES, REFER TO SHT C-20 AND C-21.
- NOZZLES, VALVES, AND FITTINGS SHALL BE COATED AS REQUIRED IN THE SPECIFICATIONS.
- LOCATION AND HEIGHT OF PRECAST VAULT SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR BEFORE FABRICATION.
- INSTALL LADDER WITH SAFETY POST IN ALL VAULTS, SEE SHT C-19.
- PROVIDE SUFFICIENT CLEARANCE FOR PROPER OPERATION OF IN-VAULT APPURTENANCES.
- NIPPLES, STREET ELBOWS AND CAP SHALL BE SIZED TO MATCH OUTLET SIZE.
- PROVIDE PRECAST CONCRETE VAULT TOPS WITH NON-TRAFFIC RATED COVERS. COVERS SHALL BE TWO-PIECE LOCKABLE TORSION SPRING ASSISTED GALVANIZED STEEL FOR NON-TRAFFIC USE AS SUPPLIED BY THE VAULT MANUFACTURER AND INSTALLED IN ACCORDANCE WITH VAULT MANUFACTURER'S RECOMMENDATIONS. COVERS SHALL BE OFFSET IN THE PRECAST CONC VAULT TOP FOR VAULT LADDER INSTALLATION AND USE. COVER HINGES SHALL BE INSTALLED PERPENDICULAR TO PIPE.
- PRECAST CONC VAULT SECTIONS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. JOINTS SHALL BE WATERTIGHT. VAULTS SHALL BE WATERPROOFED IN CONFORMANCE WITH SECTION 54 OF THE STATE SPECIFICATIONS.
- INTERIOR VAULT SURFACES SHALL BE PAINTED WITH TWO COATS OF WHITE ACRYLIC LATEX PAINT APPLIED IN ACCORDANCE AND IN CONFORMANCE WITH SECTION 59 OF THE STATE SPECIFICATIONS.
- IN PAVED AREAS THE MANHOLE COVER, FRAME AND CONC SUPPORT RING SHALL BE SET FLUSH WITH THE ADJACENT SURFACES. IN UNPAVED AREAS THE MANHOLE COVER, FRAME AND CONCRETE SUPPORT RING SHALL BE SET A MINIMUM OF 3 INCHES ABOVE GRADE.
- ALL AIR RELEASE VALVES, COMBINATION AIR VALVES, AND BLOW OFF ASSEMBLIES SHALL BE PLACES AS CLOSE TO THE GRADE BREAK OR DESIGNATED STATION AS IS PRACTICAL.
- BLIND FLANGE NOT REQUIRED AT STA 119+80.00 & STA 181+54.65.
- SIZE OF TURNOUT IS 12"Ø AT STA 119+80.00 & STA 181+54.65. PROVIDE 12"Ø IN LIEU OF 8"Ø SIZED MATERIAL AS APPLICABLE AT (2) LOCATIONS.
- THICKNESS OF TOP SECTION SHALL BE DETERMINED BY MANUFACTURER, 8 INCHES MAXIMUM.



SECTION A
CARV IN RAISED VAULT AND SERVICE TURNOUT
 SCALE: NTS



SECTION B
CARV IN TRAFFIC RATED VAULT AND SERVICE TURNOUT
 SCALE: NTS

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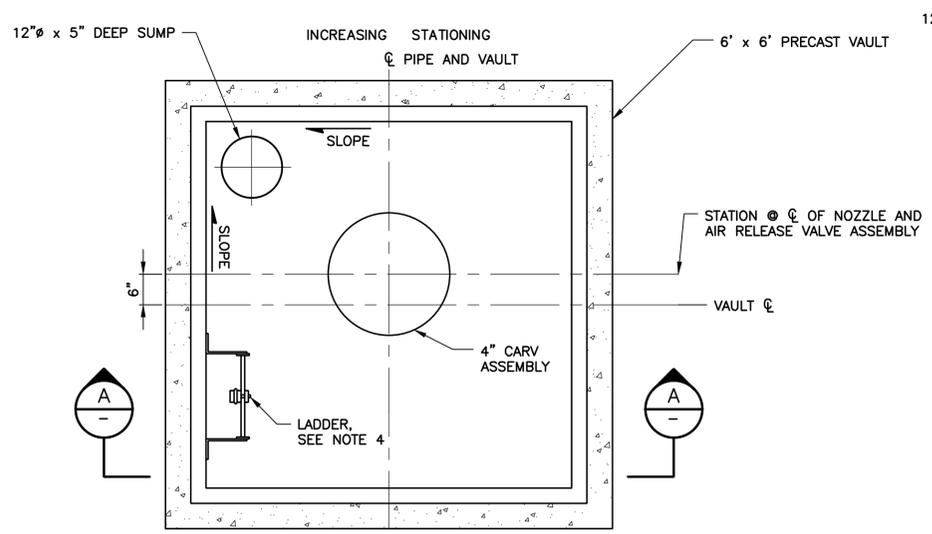
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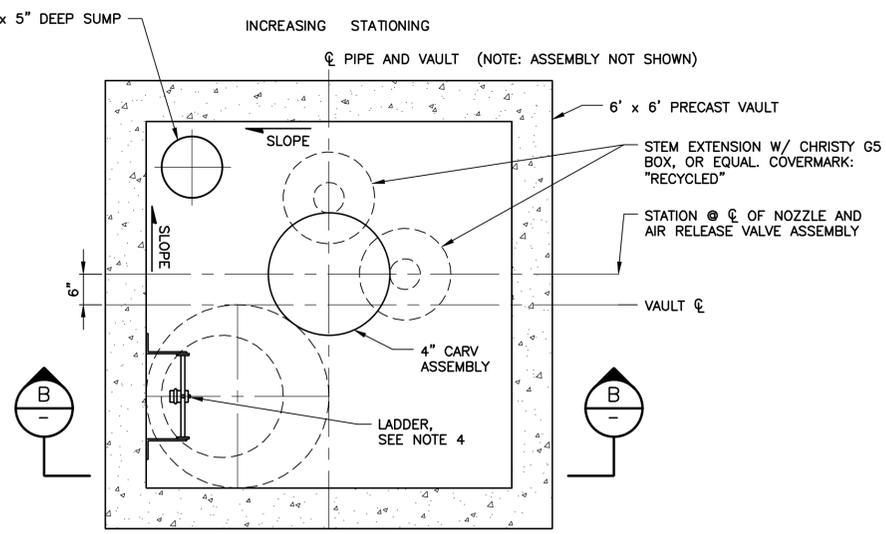
DATE 7/8/2025	ENGINEERING CERTIFICATION 	SANTA CLARA VALLEY WATER DISTRICT
DESIGN M. TAN	ENGINEER	DATE
DRAWN T. TRAN		
CHECKED J. RENTERIA		

PROJECT NAME AND SHEET DESCRIPTION: SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C CARV VAULT AND SERVICE TURNOUT DETAILS AND SECTIONS	SCALE AS SHOWN 0 1" VERIFICATION SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91094009 SHEET CODE: C-08 SHEET NUMBER: 16
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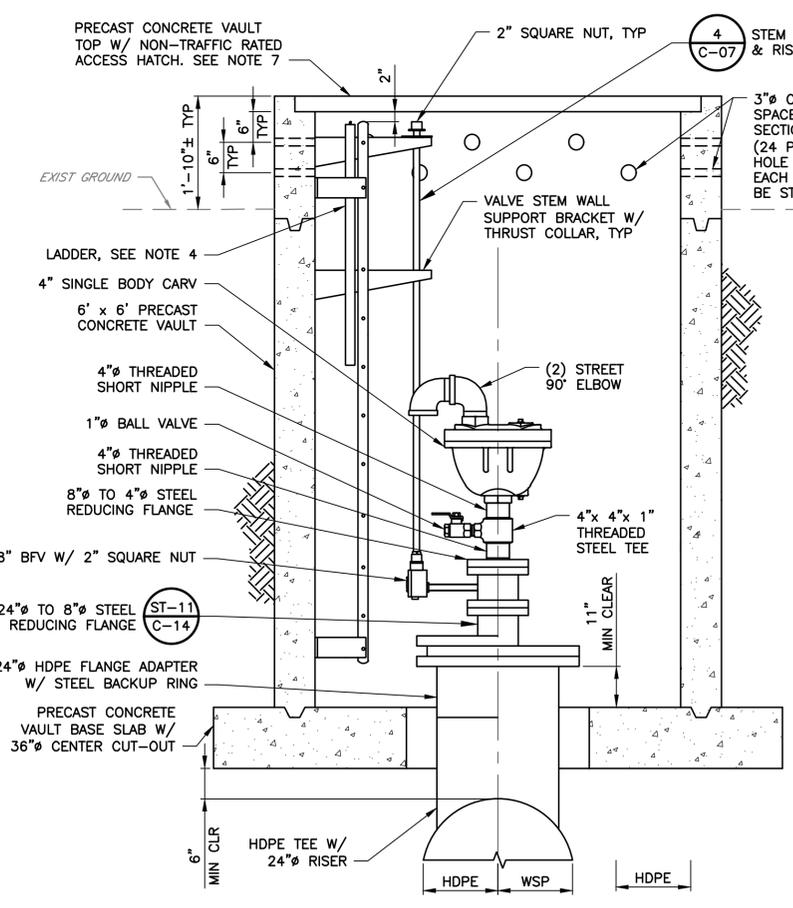
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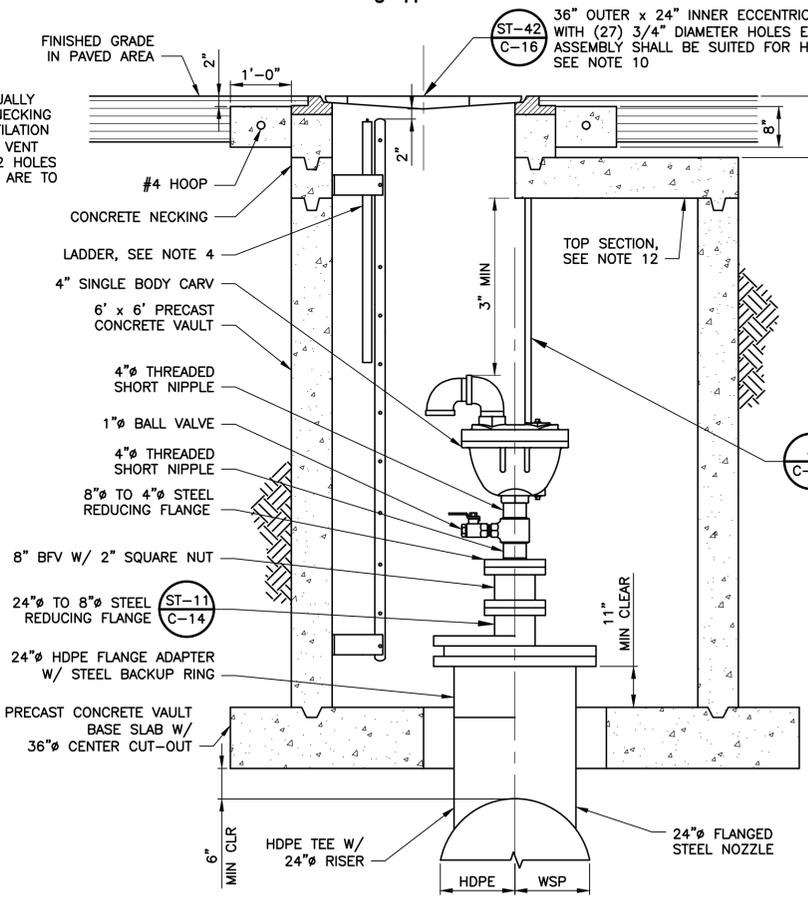
DETAIL 1 CARV IN RAISED VAULT
SCALE: NTS



DETAIL 2 CARV IN TRAFFIC RATED VAULT
SCALE: NTS



SECTION A CARV IN RAISED VAULT
SCALE: NTS



SECTION B CARV IN TRAFFIC RATED VAULT
SCALE: NTS

NOTES:

1. FOR SIZE AND LOCATION OF NOZZLES, TURNOUTS, AND AIR RELEASE VALVES, REFER TO SHT C-20 AND C-21.
2. NOZZLES, VALVES, AND FITTINGS SHALL BE COATED AS REQUIRED IN THE SPECIFICATIONS.
3. LOCATION AND HEIGHT OF PRECAST VAULT SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR BEFORE FABRICATION.
4. INSTALL LADDER WITH SAFETY POST IN ALL VAULTS, SEE SHT C-19.
5. PROVIDE SUFFICIENT CLEARANCE FOR PROPER OPERATION OF IN-VAULT APPURTENANCES.
6. NIPPLES, STREET ELBOWS AND CAP SHALL BE SIZED TO MATCH OUTLET SIZE.
7. PROVIDE PRECAST CONCRETE VAULT TOPS WITH NON-TRAFFIC RATED COVERS. COVERS SHALL BE TWO-PIECE LOCKABLE TORSION SPRING ASSISTED GALVANIZED STEEL FOR NON-TRAFFIC USE AS SUPPLIED BY THE VAULT MANUFACTURER AND INSTALLED IN ACCORDANCE WITH VAULT MANUFACTURER'S RECOMMENDATIONS. COVERS SHALL BE OFFSET IN THE PRECAST CONC VAULT TOP FOR VAULT LADDER INSTALLATION AND USE. COVER HINGES SHALL BE INSTALLED PERPENDICULAR TO PIPE CL.
8. PRECAST CONC VAULT SECTIONS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. JOINTS SHALL BE WATERPROOFED IN CONFORMANCE WITH SECTION 54 OF THE STATE SPECIFICATIONS.
9. INTERIOR VAULT SURFACES SHALL BE PAINTED WITH TWO COATS OF WHITE ACRYLIC LATEX PAINT APPLIED IN ACCORDANCE AND IN CONFORMANCE WITH SECTION 59 OF THE STATE SPECIFICATIONS.
10. IN PAVED AREAS THE MANHOLE COVER, FRAME AND CONC SUPPORT RING SHALL BE SET FLUSH WITH THE ADJACENT SURFACES. IN UNPAVED AREAS THE MANHOLE COVER, FRAME AND CONCRETE SUPPORT RING SHALL BE SET A MINIMUM OF 3 INCHES ABOVE GRADE.
11. ALL AIR RELEASE VALVES, COMBINATION AIR VALVES, AND BLOW OFF ASSEMBLIES SHALL BE PLACES AS CLOSE TO THE GRADE BREAK OR DESIGNATED STATION AS IS PRACTICAL.
12. THICKNESS OF TOP SECTION SHALL BE DETERMINED BY MANUFACTURER, 8 INCHES MAXIMUM.

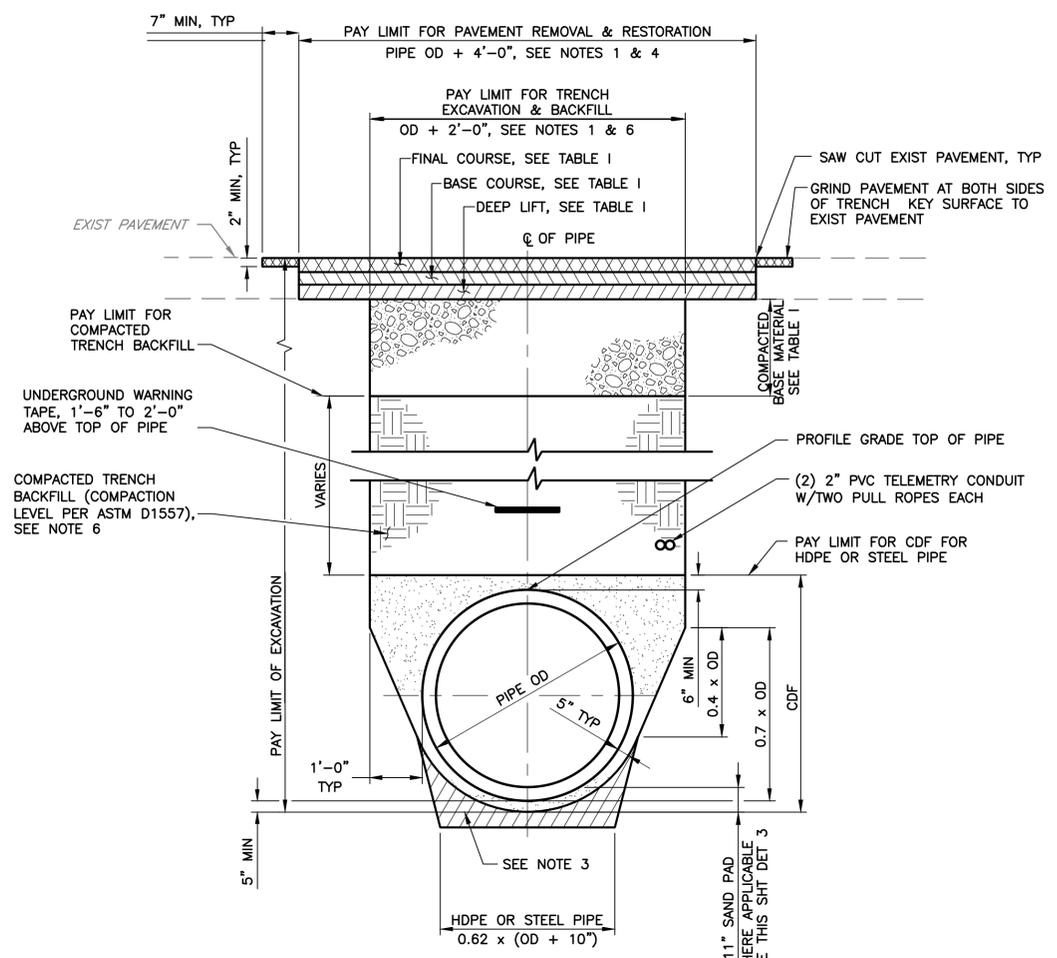
REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN M. TAN		
DRAWN T. TRAN		
CHECKED J. RENTERIA		
ENGINEER		

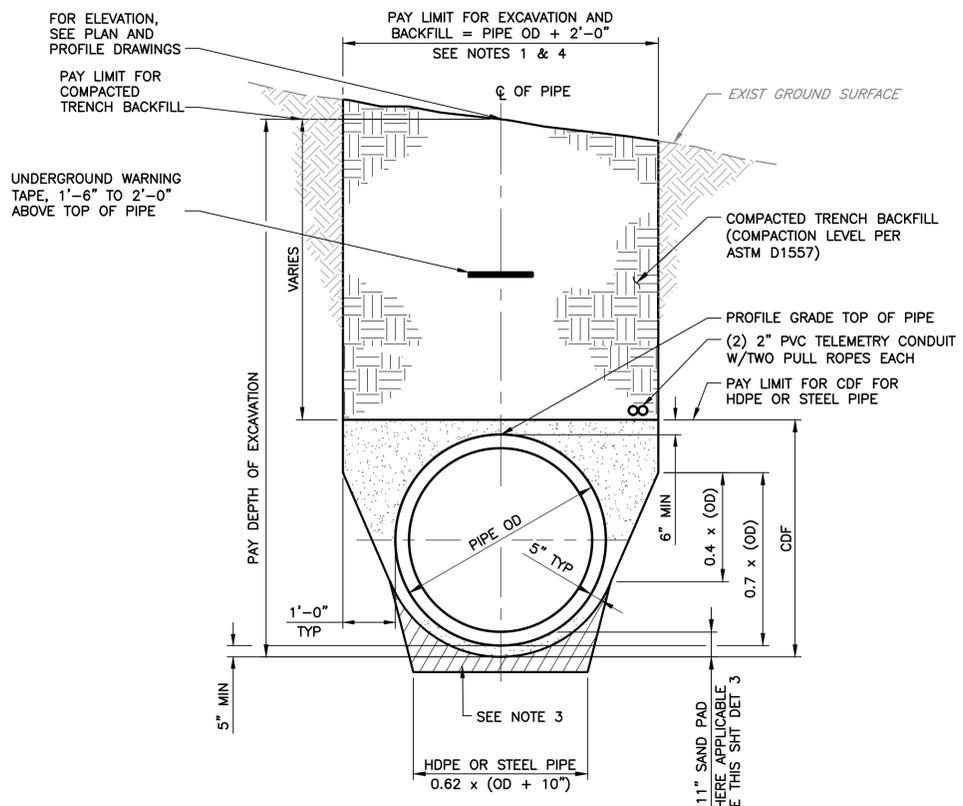
PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 CARV VAULT DETAILS AND SECTIONS

SCALE AS SHOWN	PROJECT NUMBER 91094009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-09
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DETAIL 1
 TYPICAL SECTION -
 TRENCH @ PAVED AREAS
 SCALE: NTS



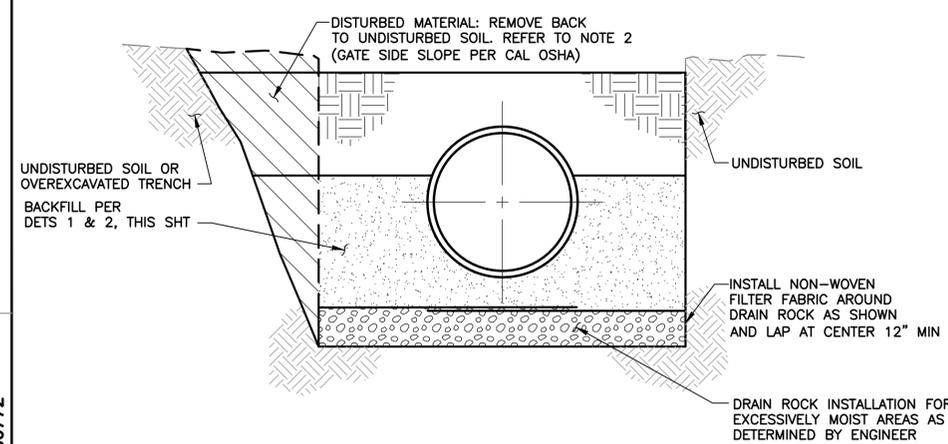
DETAIL 2
 TYPICAL SECTION -
 TRENCH @ UNPAVED AREAS
 SCALE: NTS

GENERAL NOTES:

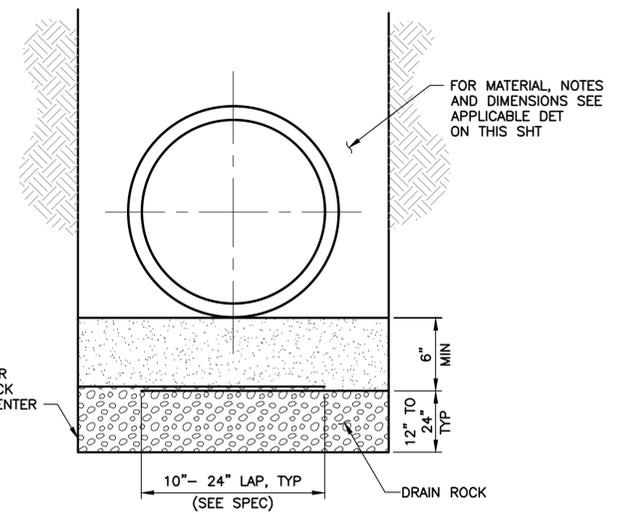
1. PAY LIMIT LINES INDICATE BOUNDARIES FOR CALCULATION OF QUANTITIES OF PAVEMENT REMOVAL AND REPLACEMENT AND OF TRENCH EXCAVATION AND BACKFILL. TRENCHING SHALL CONFORM TO OSHA EXCAVATION AND TRENCH SAFETY REQUIREMENTS REGARDLESS OF PAY LIMITS SHOWN.
2. ALL OVEREXCAVATION OR DISTURBED NATIVE MATERIAL SHALL BE REMOVED FROM THE TRENCH AND BACKFILLED WITH THE SAME MATERIAL AS REQUIRED FOR TRENCH BACKFILL FOR THE DESIGNATED DEPTHS.
3. IF UNSUITABLE MATERIAL IS ENCOUNTERED, AS DEFINED IN THE SPECIFICATIONS, OVEREXCAVATE TO A DEPTH DETERMINED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL.
4. MINIMUM TRENCH WIDTH SHALL BE AS SHOWN. VARIATION OF THE TRENCH DIMENSIONS OR CONFIGURATION FROM THOSE SHOWN ON THE DRAWINGS MAY RESULT IN A CHANGE IN THE PIPE DESIGN. SEE SPECIFICATIONS.
5. EXISTING ROAD STRUCTURAL SECTIONS VARY. FOR ADDITIONAL INFORMATION, SEE SPECIFICATIONS.
6. SIEVING OF THE TRENCH BACKFILL FOR THE REMOVAL OF DELETERIOUS MATERIALS AND ROCKS OVER 1.5" IS REQUIRED.

JURISDICTION	BASE MATERIAL (INCHES)	ASPHALT CONCRETE PAVEMENT		
		DEEP LIFT (INCHES)	BASE COURSE (INCHES)	FINAL COURSE (INCHES)
SCRWA	14*	-	4	2
CITY OF GILROY	10	-	4	2

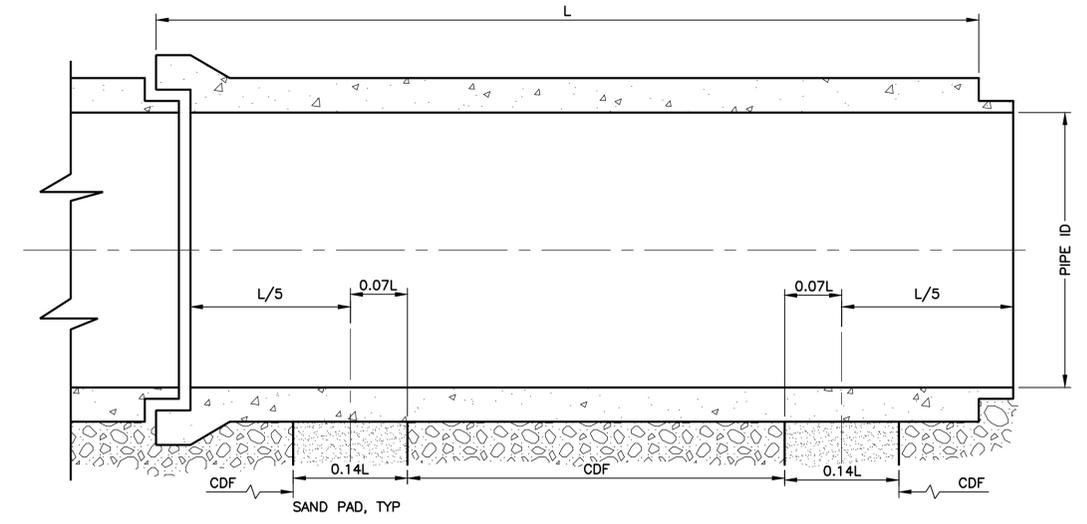
* = OR MATCH EXISTING, WHICHEVER IS GREATER



DETAIL 3
 OVEREXCAVATION OR CAVE-IN
 CORRECTIVE PROCEDURE
 SCALE: NTS



DETAIL 4
 DRAIN ROCK
 INSTALLATION
 SCALE: NTS



DETAIL 5
 LONGITUDINAL PIPE SECTION
 SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE: 7/8/2025
 DESIGN: M. TAN
 DRAWN: T. TRAN
 CHECKED: J. RENTERIA
 ENGINEER: DATE: _____

ENGINEERING CERTIFICATION: SANTA CLARA VALLEY WATER DISTRICT

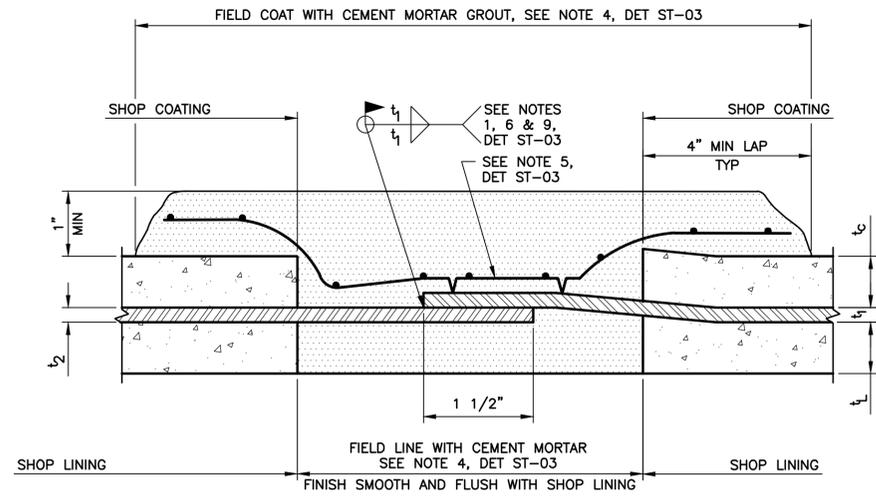
REGISTERED PROFESSIONAL ENGINEER
 No. 85537
 CIVIL
 STATE OF CALIFORNIA

Valley Water

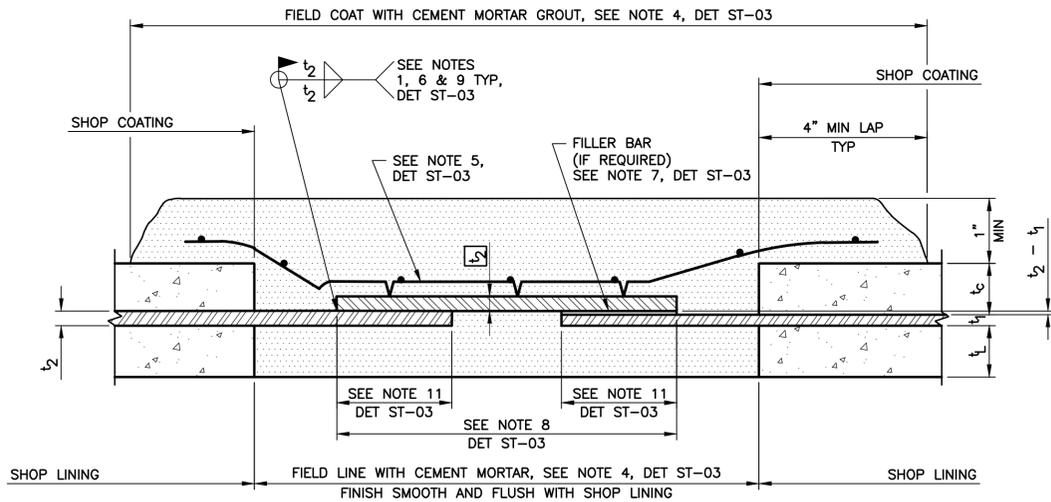
PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 TRENCH EXCAVATION AND BACKFILL

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: 91094009
 SHEET CODE: C-10
 SHEET NUMBER: 18



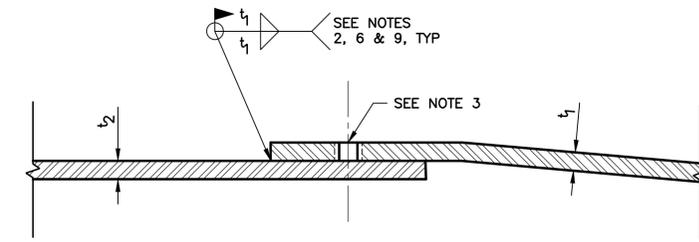
LAP WELD



BUTT STRAP

NOTES:

1. ALTHOUGH A DOUBLE WELD IS SHOWN, ONLY A SINGLE WELD IS REQUIRED EXCEPT WHERE NOTED OTHERWISE. THE SINGLE WELD MAY BE PLACED INSIDE OR OUTSIDE THE PIPE AT THE OPTION OF THE CONTRACTOR FOR PIPE SIZES GREATER THAN OR EQUAL TO 36". FOR PIPE SIZES LESS THAN 36", SINGLE WELDS SHALL BE PLACED OUTSIDE OF THE PIPE.
2. FOR PIPE SIZES GREATER THAN OR EQUAL TO 36", DOUBLE WELD JOINTS SHALL BE USED FOR:
 - A. PIPE JOINTS WITHIN CONCRETE ENCASUREMENTS AND TUNNELS; AND
 - B. THE FIRST PIPE JOINTS OUTSIDE OF THE CONCRETE ENCASUREMENT OR TUNNEL.
 DOUBLE WELD JOINTS MAY BE REQUIRED IN TENSION ANCHORAGE AREAS.
3. BEFORE WELDING, DRILL AND TAP 1/4" IPS HOLES (2 EQUALLY SPACED) FOR ALL DOUBLE WELDED JOINTS. PLUG WELD AFTER COMPLETION OF AIR TESTING.
4. FIELD APPLIED COATING AND LINING SHALL BE APPLIED ONLY AFTER EACH JOINT IS ASSEMBLED, WELDED, CLEANED, INSPECTED AND TESTED.
5. FIELD COATING SHALL BE REINFORCED WITH 2"x 4"x 13 GAUGE GALVANIZED SELF-FURRING WELDED WIRE FABRIC. LAP END 3" MINIMUM AND TACK WELD TO STEEL PIPE.
6. t_1 AND t_2 THICKNESS OF STEEL PIPE. ($t_2 \geq t_1$)
7. WHERE FILLER BAR IS REQUIRED, DOUBLE WELD AND PROVIDE AIR TEST HOLES FOR PIPE SIZES GREATER THAN OR EQUAL TO 36".
8. MINIMUM BUTT STRAP WIDTH IS:
 - A. 4" FOR PIPE SIZES LESS THAN 36"; AND
 - B. 6" FOR PIPE SIZES 36" OR GREATER.
 MAXIMUM BUTT STRAP WIDTH IS 21".
9. WELD SIZE SHOWN BY LETTER DESIGNATION IS FOR REFERENCE ONLY. THE ACTUAL WELD SIZE SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
10. UNLESS OTHERWISE INDICATED, CEMENT MORTAR LINING THICKNESS, t_c AND CEMENT MORTAR COATING THICKNESS, t_e , SHALL CONFORM TO AWWA C205.
11. FOR PIPE SIZES LESS THAN 36", MINIMUM LAP IS 1". FOR PIPE SIZES 36" OR GREATER, MINIMUM LAP IS 2".



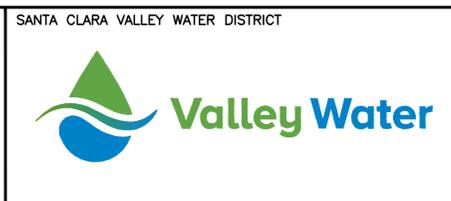
ST-02 **FIELD JOINT - CEMENT MORTAR LINED AND COATED STEEL PIPE**
 TYP
 SCALE: NTS

ST-03 **NOTES AND AIR TEST HOLE FOR DOUBLE WELD JOINT**
 TYP
 SCALE: NTS

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REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION
DESIGN M. TAN	
DRAWN T. TRAN	
CHECKED J. RENTERIA	
ENGINEER	

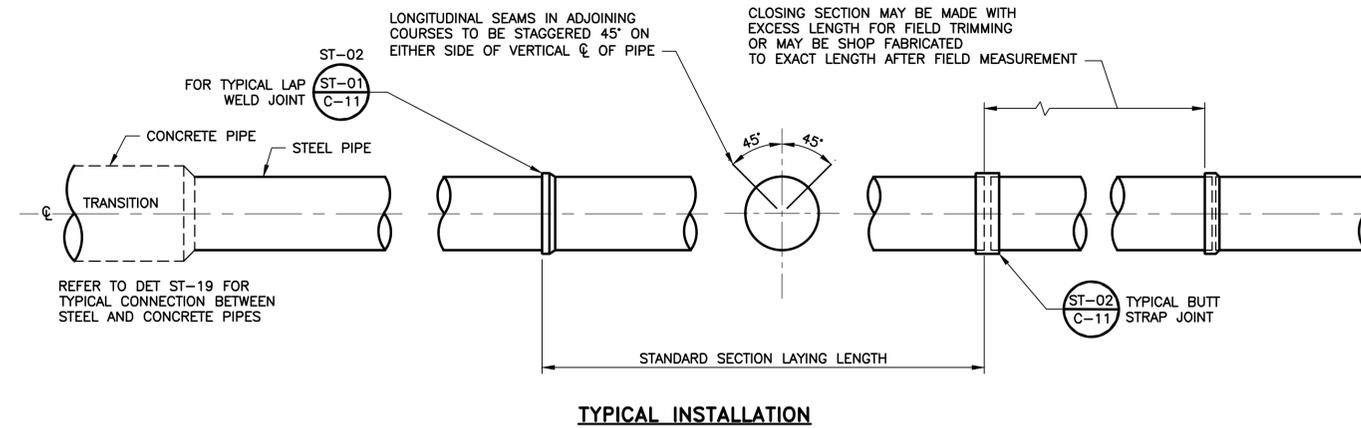


PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 STANDARD DETAILS - JOINT DETAILS - STEEL PIPE

SCALE AS SHOWN	PROJECT NUMBER 91094009
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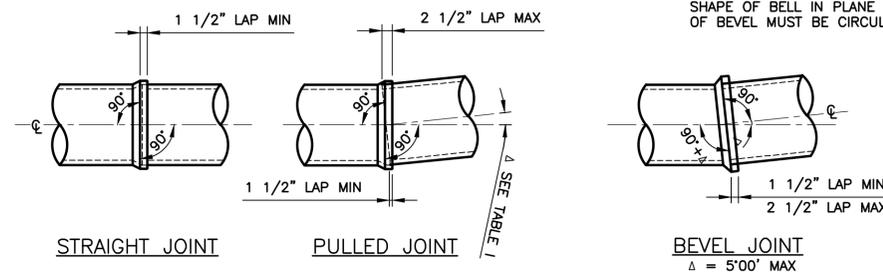
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TYPICAL INSTALLATION

NOTE:

BEVEL BELL ENDS ONLY
 MAXIMUM BEVEL = 5°
 SHAPE OF BELL IN PLANE OF BEVEL MUST BE CIRCULAR.



LAP WELD GIRTH JOINTS

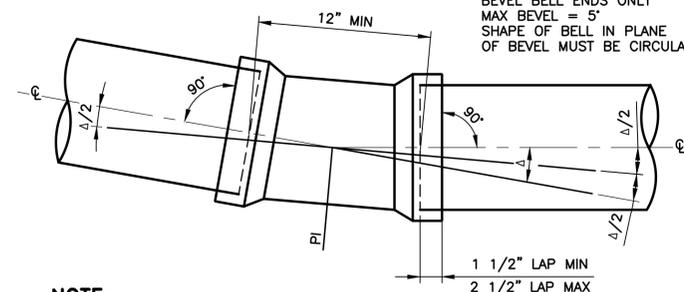
NOTE:

ON LAP WELD GIRTH JOINTS & TYPE 1A BENDS, BEVEL JOINTS & PULLED JOINTS MAY BE COMBINED TO ALLOW A MAXIMUM DEFLECTION OF 5" PLUS MAXIMUM Δ AS SHOWN IN TABLE I.

PIPE ID INCHES	PULLED JOINTS MAX Δ DEGREES	
	STD BELL	
20	2'52"	
24	2'23"	
30	1'55"	
36	1'35"	
42	1'22"	
48	1'12"	
54	1' 4"	
60	57"	
66	52"	

NOTE:

BEVEL BELL ENDS ONLY
 MAX BEVEL = 5°
 SHAPE OF BELL IN PLANE OF BEVEL MUST BE CIRCULAR.



NOTE:

TYPE 1A BEND IS A LAP WELD GIRTH JOINT THAT MAY BE USED AS AN ALTERNATIVE TO TYPE 1 BEND FOR ANGLES OVER 5° AND UP TO 10°.

TYPE 1A BEND

ST-04 TYP STEEL PIPE INSTALLATION AND FABRICATION
 SCALE: NTS

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

- ALL FITTINGS SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH AWWA M11 AND C200 STANDARDS.
- SPIRAL, LONGITUDINAL, AND GIRTH SEAMS SHALL BE FULL-PENETRATION GROOVE WELDED BUTT JOINTS CONFORMING TO AWWA C200 AND AWS D1.1.

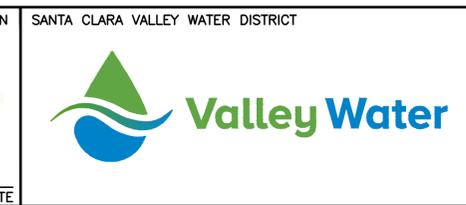
DATE
7/8/2025

DESIGN
M. TAN

DRAWN
T. TRAN

CHECKED
J. RENTERIA

ENGINEER



PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 STANDARD DETAILS - STEEL PIPE INSTALLATION AND FABRICATION

SCALE AS SHOWN

VERIFY SCALES

0 1"

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

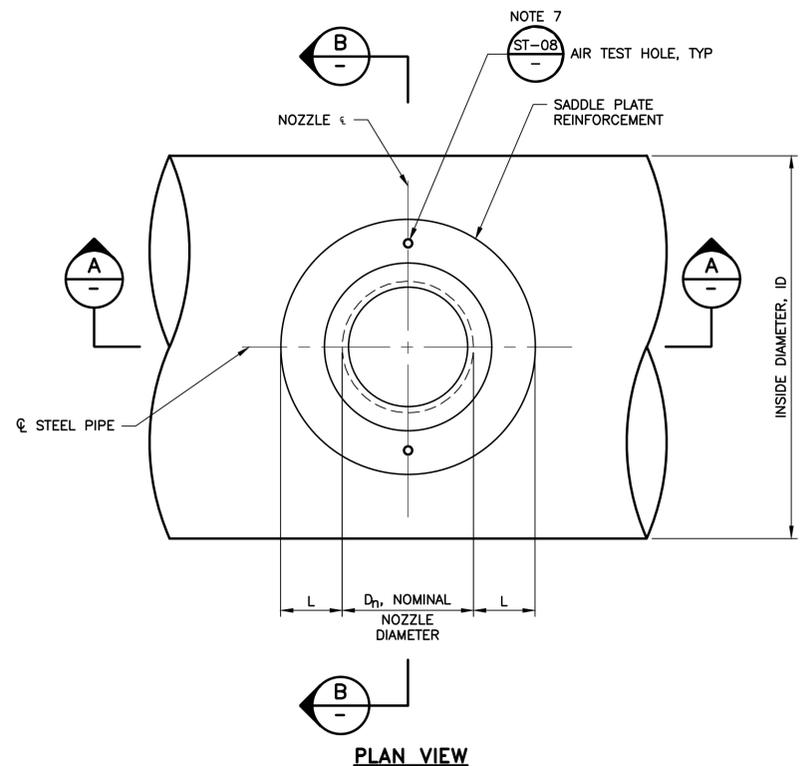
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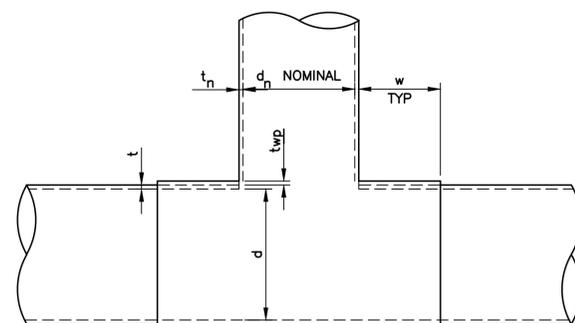
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PLAN VIEW

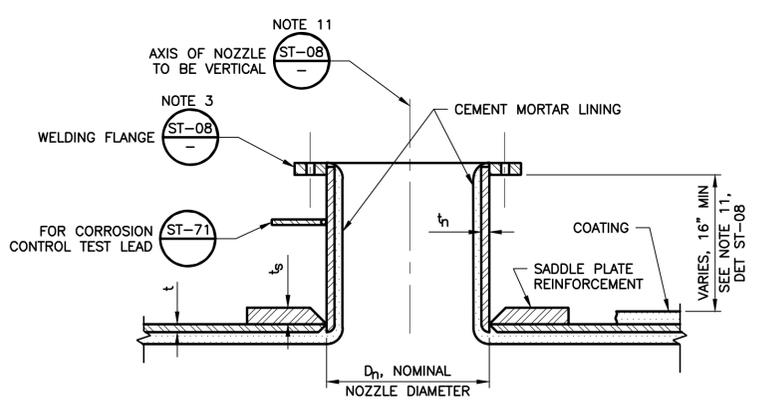


NOTE:
 NOZZLE COATING AND LINING NOT SHOWN. FOR NOZZLE DIMENSIONS, SEE TABLE 2, FOR WELDING OF WRAPPER AT NOZZLE AND OUTSIDE END, SEE SHT C-15.

DETAIL 1
NOZZLE WITH WRAPPED REINFORCEMENT
 SCALE: NTS

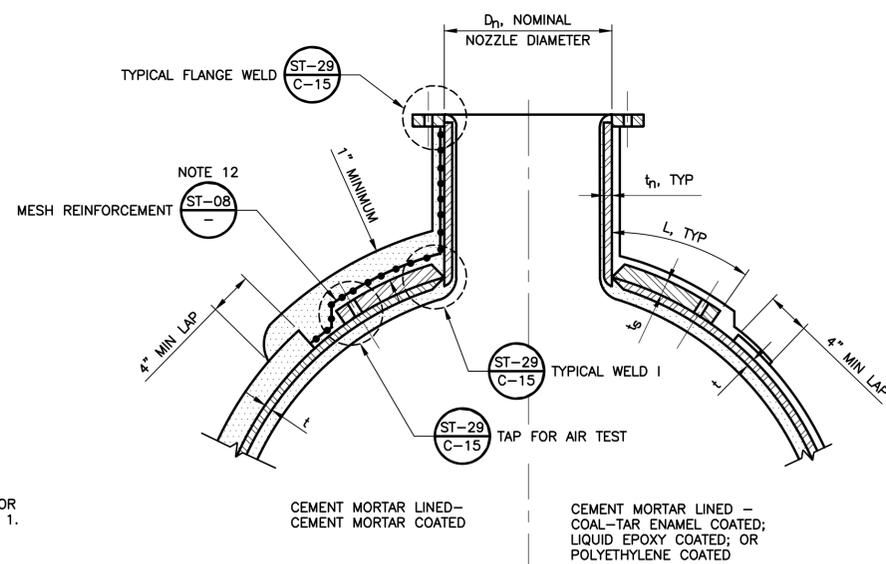
NOTES:

- SEE SPECIFICATIONS FOR MATERIAL, INSTALLATION, COATING, AND LINING REQUIREMENTS.
- ALL NOZZLES AND PLATES ARE TO BE MANUFACTURED FROM STEEL, CONFORMING TO THE REQUIREMENTS OF STEEL PIPE (ASTM 283 GRADE C OR EQUAL). FOR NOZZLES 24" OR LESS NOMINAL DIAMETER, ASTM A53 GRADE B STEEL PIPE MAY BE USED.
- WELDING FLANGES SHALL BE SLIP-ON WELDING FLANGES, RING TYPE, FLAT-FACE, SEE SPECIFICATIONS. BLIND FLANGES SHALL BE STEEL, SEE SPECIFICATIONS.
- FLANGE FACES SHALL BE SHOP COATED WITH A REMOVABLE RUST-PREVENTING COMPOUND TO PROVIDE PROTECTION DURING TRANSPORT AND PRIOR TO INSTALLATION.
- FLANGE GASKETS SHALL BE 1/8" THICK, FULL-FACE CLOTH INSERTED RUBBER GASKETS. GASKETS FOR POTABLE WATER SYSTEMS SHALL BE NSF APPROVED.
- FLANGE BOLTS SHALL STRADDLE CENTERLINE OF PIPE OR CENTERLINE OF FLANGE UNLESS REQUIRED OTHERWISE ON DRAWINGS.
- DRILL AND TAP TEST HOLES FOR AIR TEST BEFORE WELDING MEMBERS AS SHOWN ON DETAILS. PLUG WELD AFTER AIR TEST IS COMPLETED. SEE DET ST-01, ST-02 AND ST-03.
- ON BLIND FLANGES FOR BURIED NOZZLES, DRILL AND TAP 1" IPS HOLE AND INSTALL STEEL PLUG.
- SHOP COAT ALL METAL SURFACES EXCEPT FLANGE FACES AND SURFACES RECEIVING FIELD APPLIED COATINGS.
- COAT ALL EXPOSED METAL SURFACES WITH THE SAME COATING AS WAS USED ON THE MAIN PIPE, EXCEPT AS NOTED OTHERWISE.
- FOR SLOPING PIPE - INSTALL NOZZLE VERTICALLY. MAINTAIN A MINIMUM CLEARANCE TO THE NOZZLE FLANGE AS SHOWN. SEE DET ST-37 THRU ST-42 FOR REQUIRED CLEARANCE IN PRECAST VAULTS.
- MESH REINFORCING SHALL BE SELF-FURRING GALVANIZED WIRE MESH 2"x 4"x 13 GAUGE. SECURE WITH CLIPS AT 24" CENTERS AND WELD TO SADDLE, PIPE CYLINDER, OR NOZZLE.



SECTION A

ST-06
TYP
TYPICAL NOZZLE OUTLET
HORIZONTAL SECTION - STEEL PIPE
 SCALE: NTS



SECTION B

ST-07
TYP
TYPICAL NOZZLE OUTLET
VERTICAL SECTION - STEEL PIPE
 SCALE: NTS

ST-08
TYP
TYPICAL NOZZLE
STEEL PIPE NOTES
 SCALE: NTS

TABLE 1

PIPE DIAMETER ID (IN)	PIPE CYLINDER* t (IN)	NOZZLE THICKNESS		INTERNAL DESIGN PRESSURE, FEET					L(IN)
		Dn	tn (IN)	360	X	X	X	X	
SADDLE PLATE THICKNESS (ts)									
36	0.25	24"	0.375	0.1875	X	X	X	X	12
30	0.1875	12"	0.375	0.1875	X	X	X	X	6

TABLE 2 - NOZZLE WITH WRAPPER REINFORCEMENT

MAIN d (INCHES)	NOZZLE dn (INCHES)	NOZZLE THICKNESS tn (INCHES)	MAIN CYLINDER THICKNESS t (INCHES)	WRAPPER THICKNESS twp (INCHES)	WRAPPER WIDTH w (INCHES)
36	24	0.375	0.25	0.1875	12
30	24	0.375	0.1875	0.1875	12

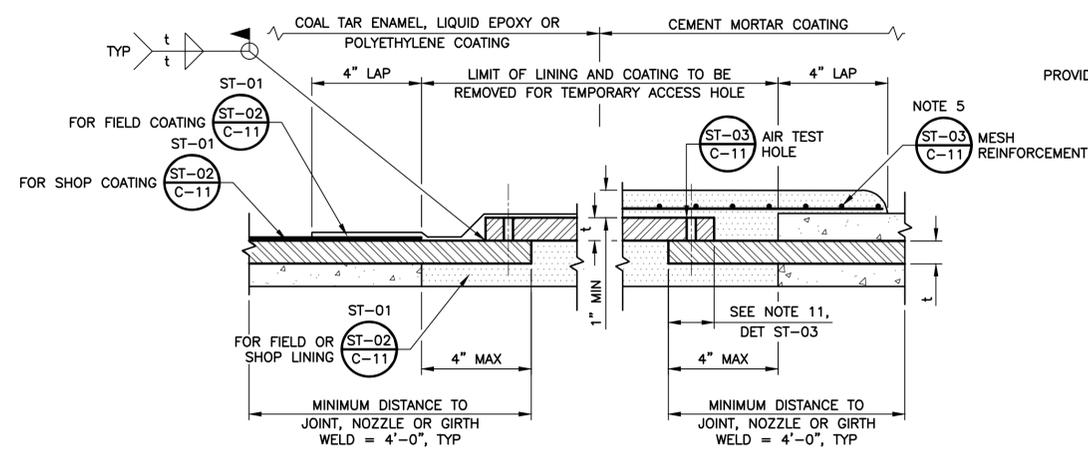
REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION 	SANTA CLARA VALLEY WATER DISTRICT
DESIGN M. TAN		
DRAWN T. TRAN		
CHECKED J. RENTERIA		
ENGINEER	DATE	

PROJECT NAME AND SHEET DESCRIPTION: SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C STANDARD DETAILS - NOZZLE DETAILS - STEEL PIPE	SCALE AS SHOWN 	PROJECT NUMBER 91094009
	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-13
		SHEET NUMBER: 21

USERNAME: TungTian 7/11/2025 9:11 PM
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DOCUMENT NUMBER: WAE-C-9109-86776

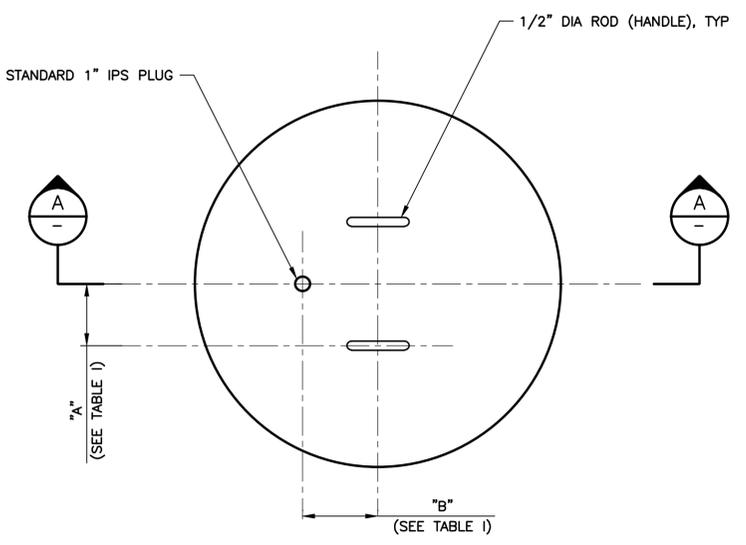


NOTE:
DOUBLE WELD IS REQUIRED

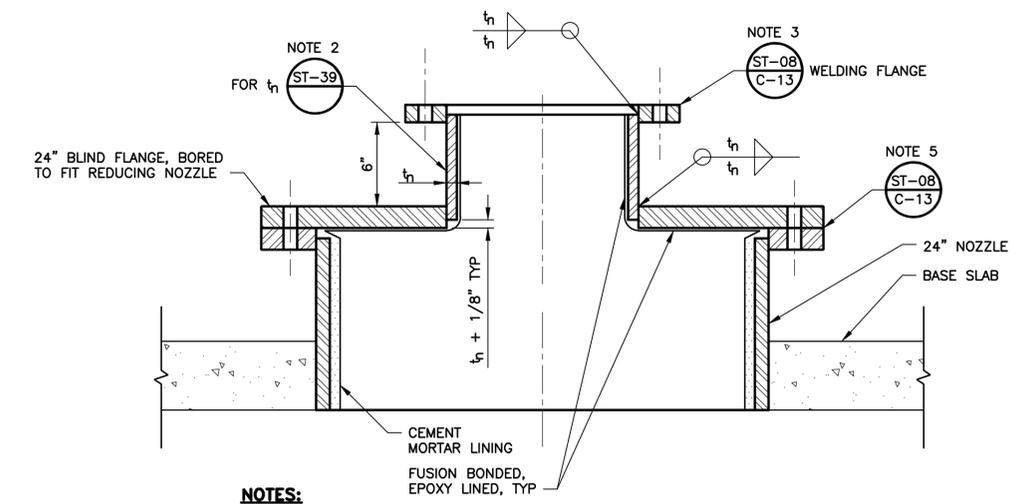
ACCESS HOLE ON STEEL PIPE

DETAIL 1 OUTLET FITTINGS - STEEL PIPE

SCALE: NTS



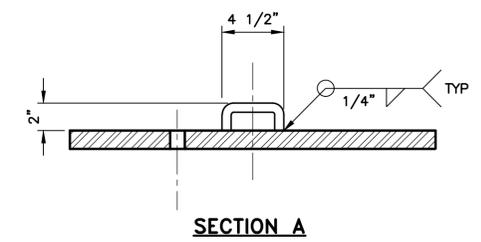
PLAN VIEW



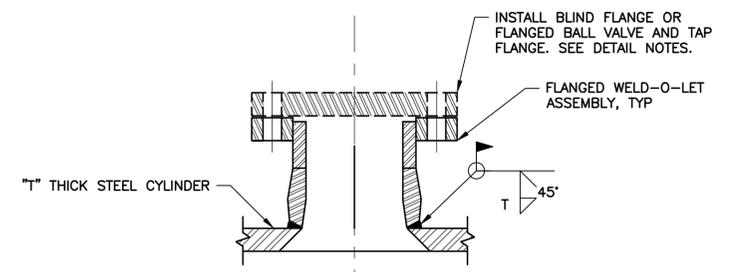
NOTES:

1. REDUCING NOZZLE TO BE CENTERED ON 24" BLIND FLANGE.
2. BOLT HOLES TO STRADDLE CENTERLINE OF PIPE.
3. REFER TO GENERAL NOTES ON DET ST-08.
4. REFER TO DET ST-06 AND ST-07.
5. COATING NOT SHOWN.

REDUCING NOZZLE



SECTION A



NOTE:

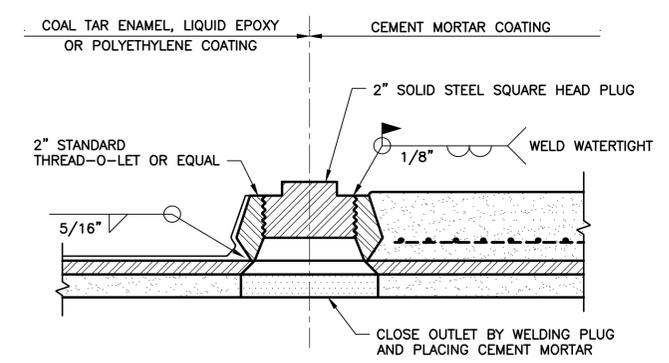
1. PIEZOMETER AND CORPORATION STOPS TO BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS, OR AS APPROVED BY THE ENGINEER.

DETAIL 2 FLANGED WELD-O-LET ASSEMBLY

SCALE: NTS

TABLE I		
NOMINAL NOZZLE DIA (INCHES)	"A" INCHES	"B" INCHES
6-10	2	0
12-22	5	3
24 & OVER	7	3

ST-10 BURIED NOZZLE BLIND FLANGE
TYP
SCALE: NTS



NOTES:

1. ALL 2" TEMPORARY OUTLETS SHALL BE SHOP INSTALLED. REFER TO DET ST-09 FOR DETAILS OF ADAPTION OF 2" OUTLET FOR PIEZOMETER USE.
2. AFTER CLOSING, EXTEND COATING OVER OUTLET AND LAP 4" ONTO SHOP COATING (MIN THICKNESS OF 1" FOR CEMENT MORTAR COATING).

2" OUTLET ON STEEL PIPE

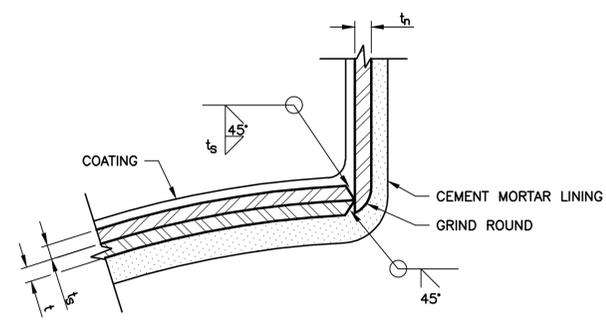
ST-11 NOZZLE AND 2" OUTLET STEEL PIPE
TYP
SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

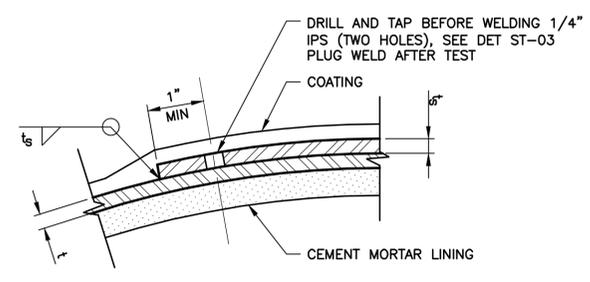
DATE 7/8/2025 DESIGN M. TAN DRAWN T. TRAN CHECKED J. RENTERIA ENGINEER		SANTA CLARA VALLEY WATER DISTRICT
--	--	---------------------------------------

PROJECT NAME AND SHEET DESCRIPTION: SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C STANDARD DETAILS - TEMPORARY OUTLET DETAILS - STEEL PIPE	SCALE AS SHOWN VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 91094009 SHEET CODE: C-14 SHEET NUMBER: 22
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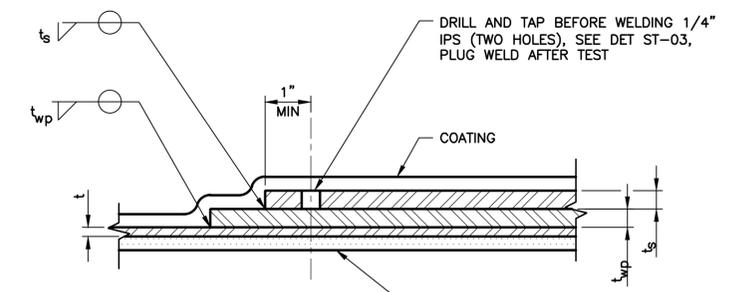
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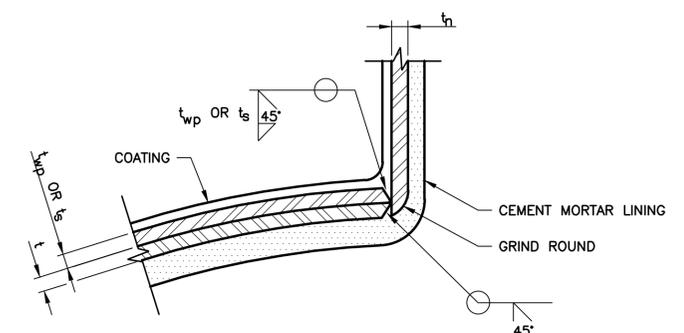
TYPICAL WELD I



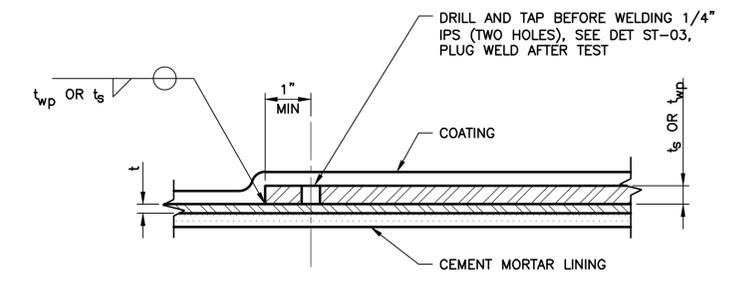
TAP FOR AIR TEST



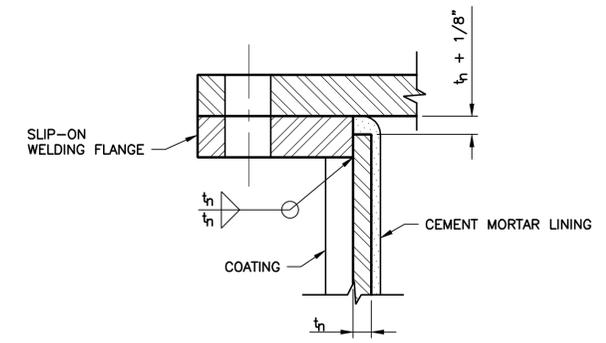
TAP FOR AIR TEST I



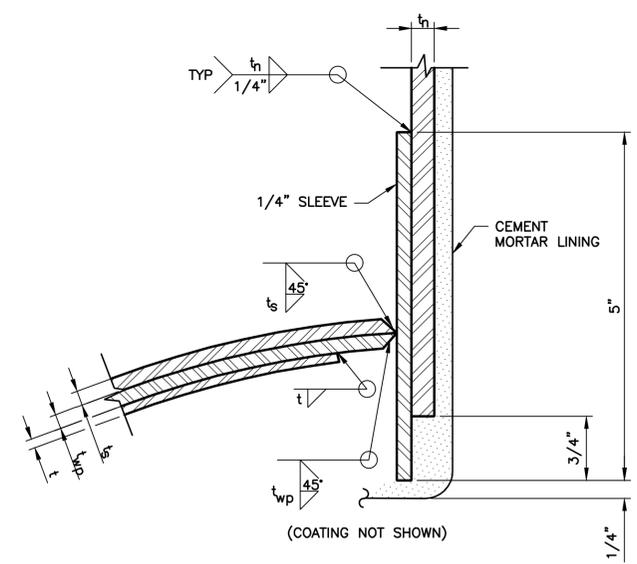
TYPICAL WELD



TAP FOR AIR TEST II



TYPICAL FLANGE WELD



TYPICAL WELD II

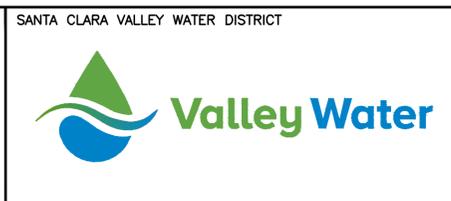
ST-29
 TYP
SPECIAL SECTIONS & FITTINGS
TYPICAL WELDS
 SCALE: NTS

ST-30
 TYP
SPECIAL SECTIONS & FITTINGS-TYPICAL WELDS
 SCALE: NTS

DOCUMENT NUMBER: WAE-C-9109-8677

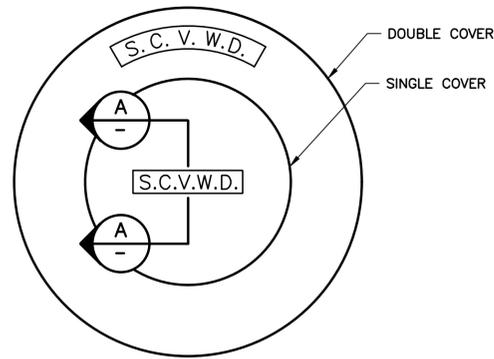
REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION
DESIGN M. TAN	
DRAWN T. TRAN	
CHECKED J. RENTERIA	
ENGINEER	



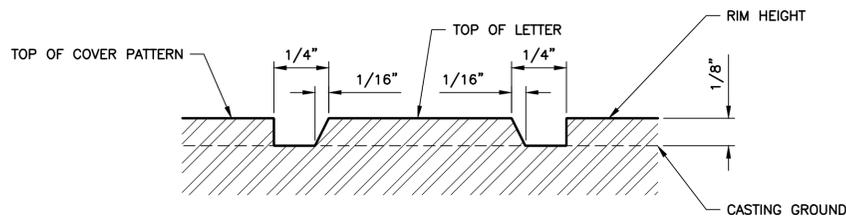
PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 STANDARD DETAILS - TYPICAL WELDS

SCALE AS SHOWN	PROJECT NUMBER 91094009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-15
	SHEET NUMBER: 23

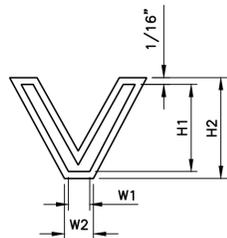


NOTE:
DETAIL SHOWN, WHICH IS FOR CONCENTRIC DOUBLE COVER, ALSO APPLIES TO NON-CONCENTRIC DOUBLE COVER.

PLAN VIEW



SECTION A



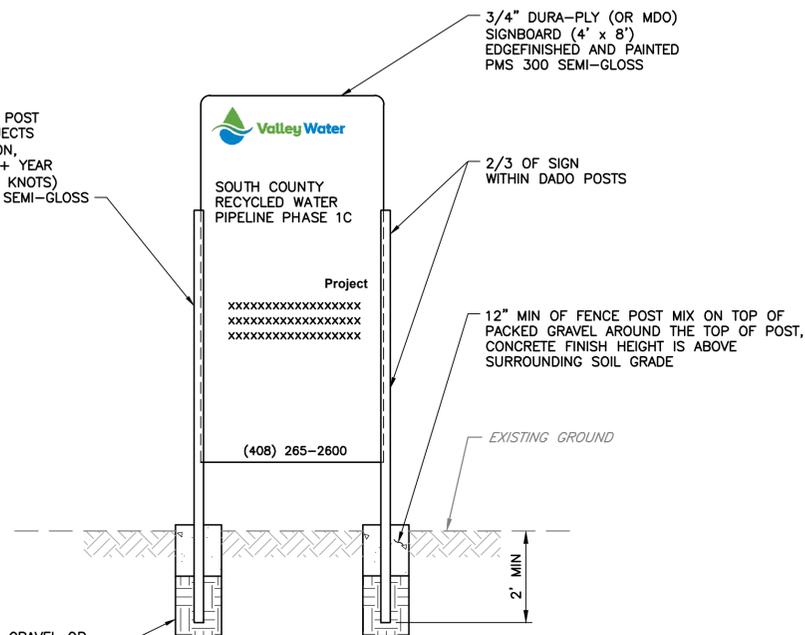
TYPICAL LETTER

COVERS	H1	H2	W1	W2
SINGLE* COVER	1 1/16"	1 3/16"	1/8"	1/4"
DOUBLE* COVER SET	1 5/8"	1 3/4"	5/16"	7/16"

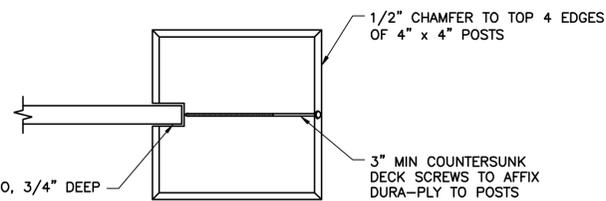
* LETTER TO BE RAISED 1/8", BUT NOT EXTEND ABOVE RIM

ST-42 MANHOLE COVER LETTERING
SCALE: NTS

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



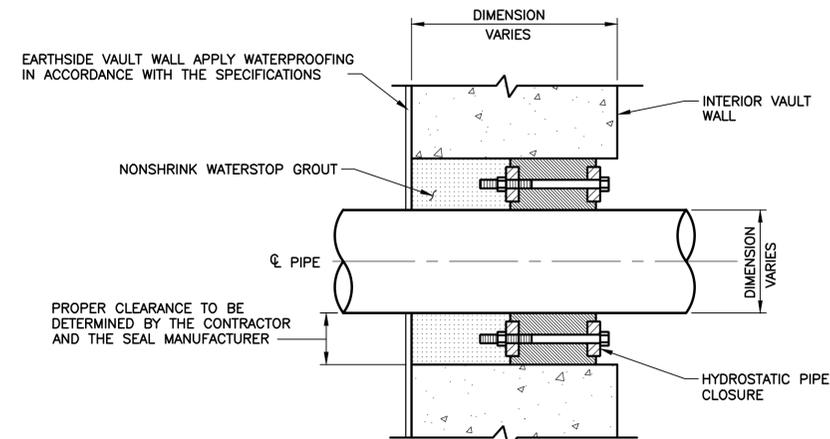
FRONT VIEW



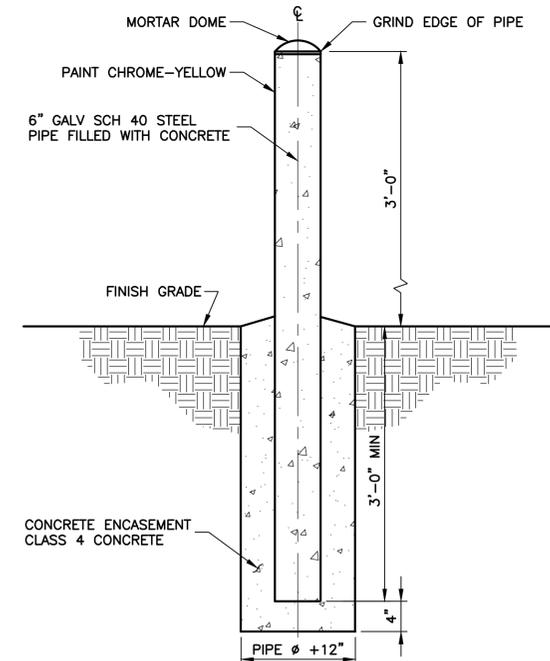
TOP VIEW

NOTES:
1. FOR SIGN LOCATION, SEE PLAN AND PROFILE SHEETS.
2. CONTRACTOR TO INSTALL DISTRICT FURNISHED SIGNS, SEE SPECIFICATIONS.

ST-221 PROJECT SIGN
SCALE: NTS



DETAIL 1 METHOD 1 SEALANT
SCALE: NTS



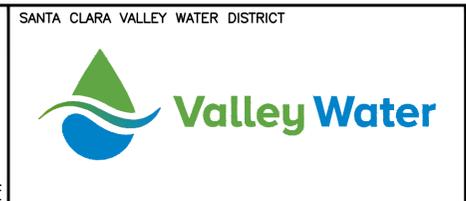
DETAIL 2 PROTECTIVE BOLLARD
SCALE: NTS

DOCUMENT NUMBER: WAE-C-9109-86778

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES
1. DET SHOWN, WHICH IS FOR CONCENTRIC DOUBLE COVER, ALSO APPLIES TO NON-CONCENTRIC DOUBLE COVER.

DATE: 7/8/2025
DESIGN: M. TAN
DRAWN: T. TRAN
CHECKED: J. RENTERIA
ENGINEER: ENGINEER DATE



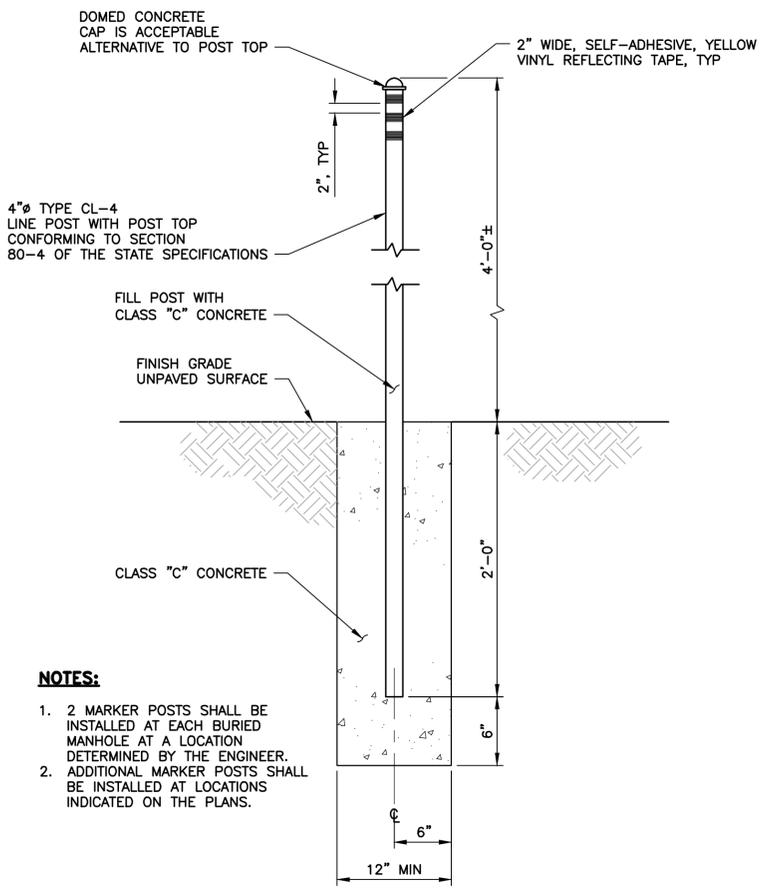
PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
STANDARD DETAILS - MANHOLE COVER LETTERING & PROJECT SIGNS

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: 91094009
SHEET CODE: C-16
SHEET NUMBER: 24

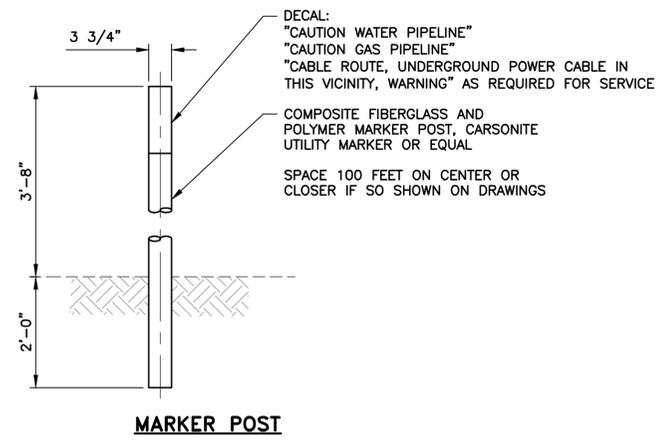
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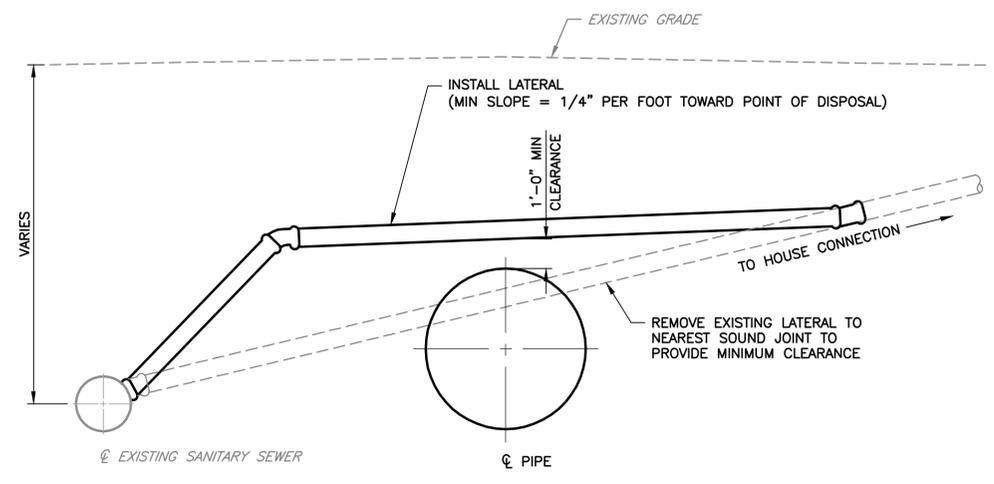


- NOTES:**
- 2 MARKER POSTS SHALL BE INSTALLED AT EACH BURIED MANHOLE AT A LOCATION DETERMINED BY THE ENGINEER.
 - ADDITIONAL MARKER POSTS SHALL BE INSTALLED AT LOCATIONS INDICATED ON THE PLANS.

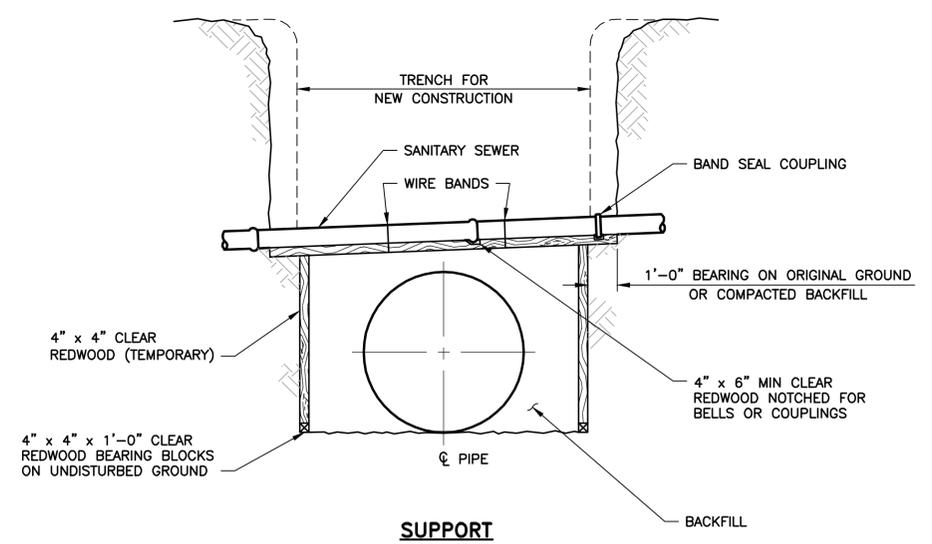
MARKER POST IN CONCRETE



ST-81 TYPICAL PIPE/CONDUIT/VALVE MARKER POST
 TYP SCALE: NTS



LATERAL RELOCATION

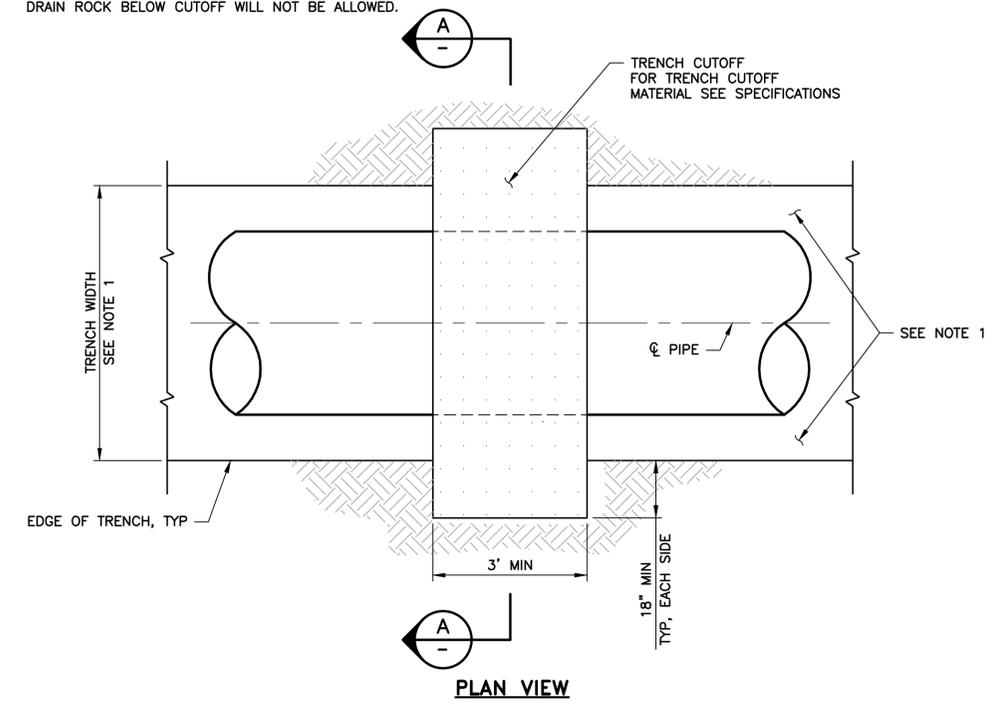


SUPPORT

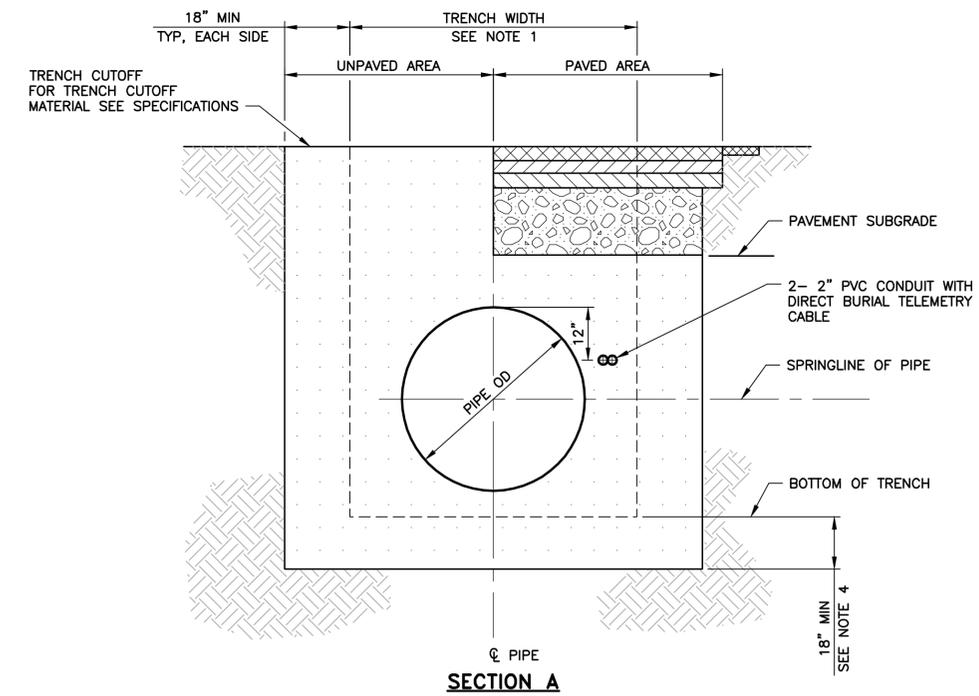
ST-82 MISCELLANEOUS DETAILS
 TYP SANITARY SEWER
 SCALE: NTS

NOTES:

- BACKFILL SHALL COMPLY WITH DETAILS ON SHT C-10.
- TRENCH CUTOFFS SHALL BE PLACED AGAINST UNDISTURBED EARTH.
- TRENCH CUTOFFS SHALL NOT BE PLACED WITHIN 5 FEET OF PIPE JOINT.
- WHERE OVEREXCAVATION OF TRENCH IS NECESSARY DUE TO UNSUITABLE MATERIAL, MINIMUM DIMENSION SHOWN SHALL BE FROM UNDISTURBED BOTTOM OF TRENCH TO BOTTOM OF TRENCH CUTOFF. PLACEMENT OF DRAIN ROCK BELOW CUTOFF WILL NOT BE ALLOWED.



PLAN VIEW



SECTION A

ST-83 MISCELLANEOUS CORROSION CONTROL DETAILS
 TYP TRENCH CUTOFF
 SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE: 7/8/2025
 ENGINEERING CERTIFICATION: M. TAN
 DESIGN: M. TAN
 DRAWN: T. TRAN
 CHECKED: J. RENTERIA
 ENGINEER: J. RENTERIA
 DATE:

SANTA CLARA VALLEY WATER DISTRICT

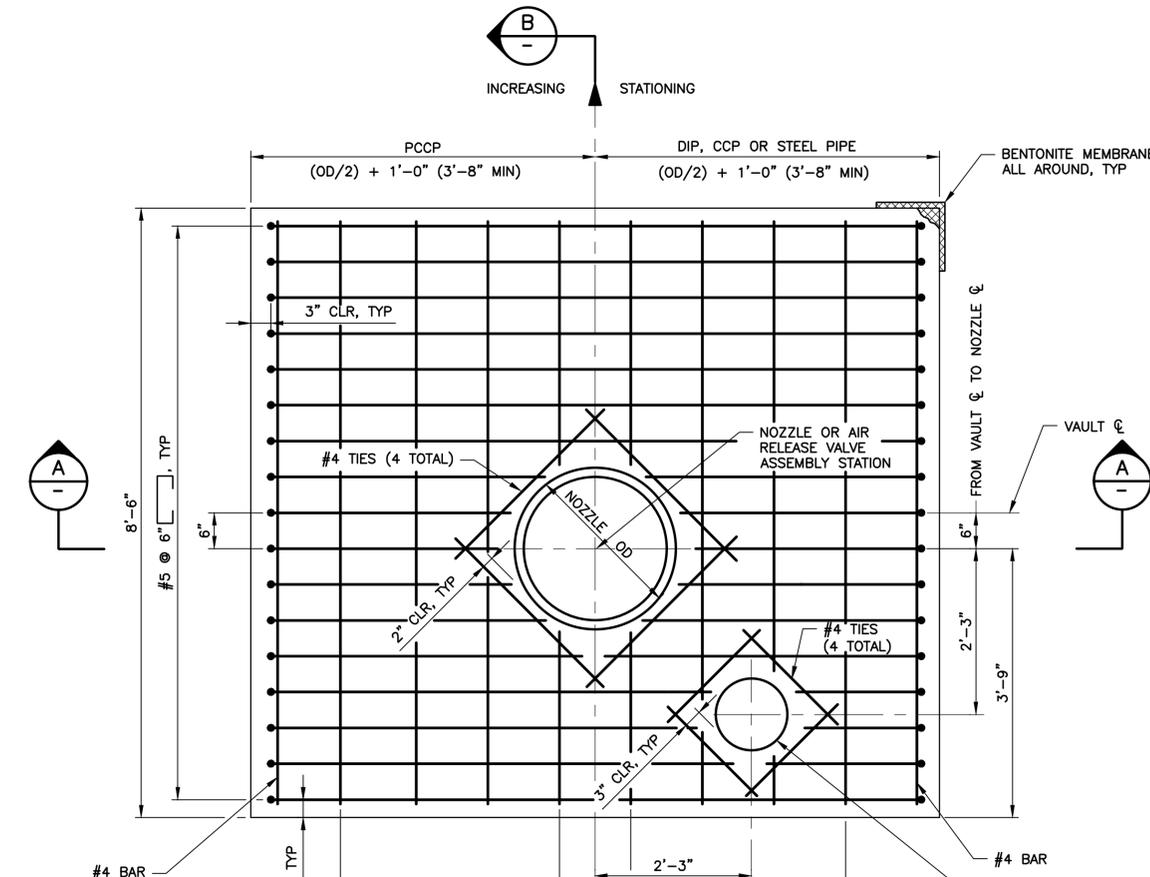
PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 STANDARD DETAILS - MISCELLANEOUS DETAILS

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

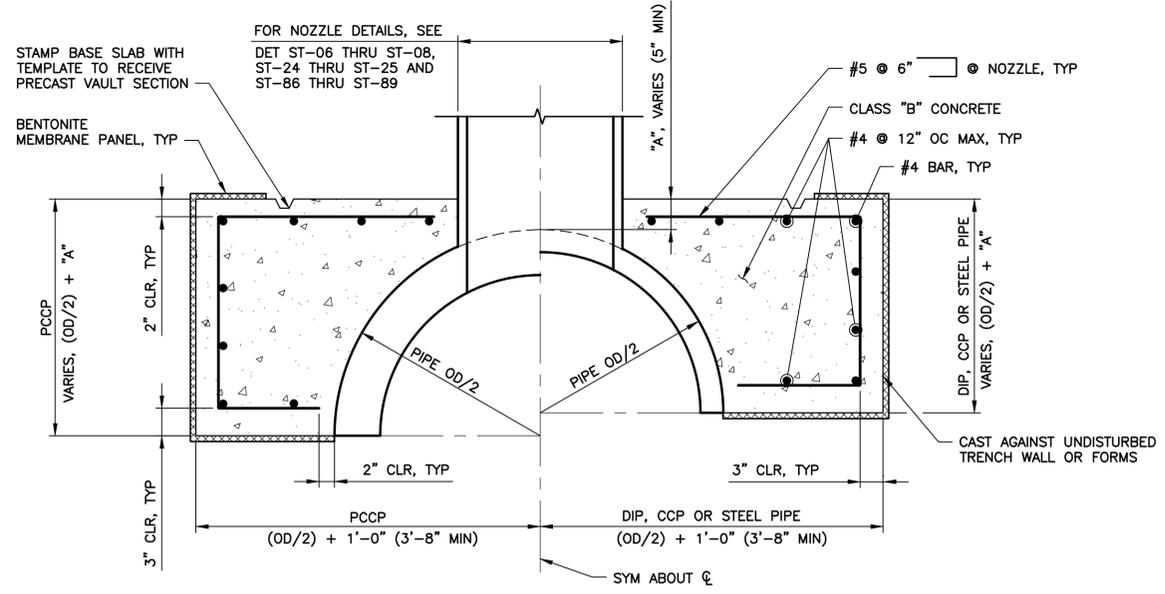
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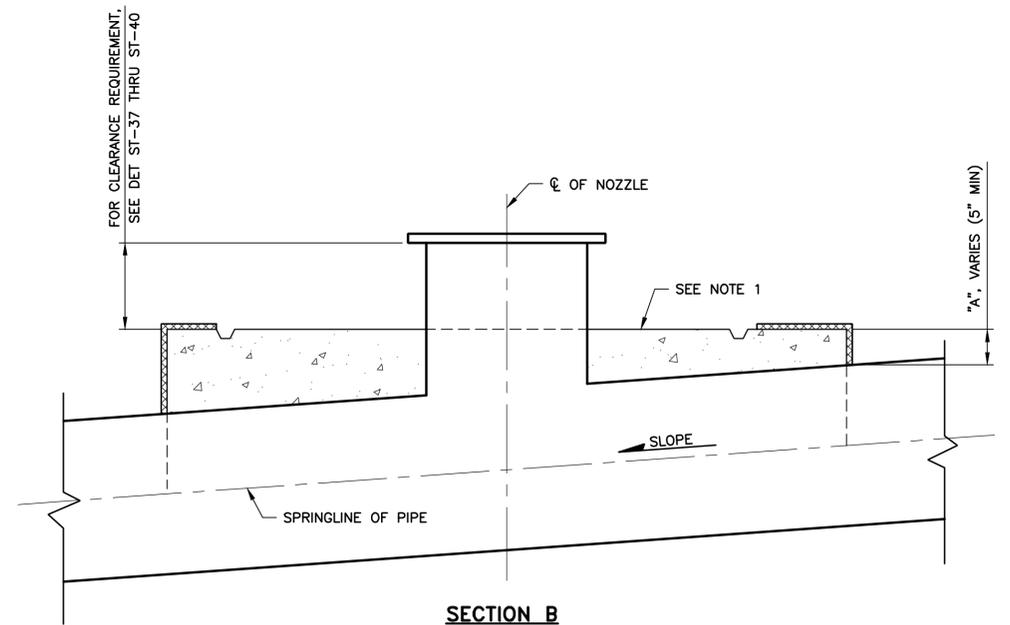


PLAN VIEW



SECTION A

ST-35
 TYP
BASE SLAB FOR PRECAST VAULTS
 SCALE: NTS



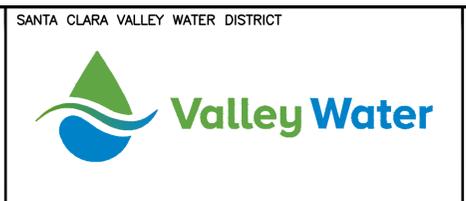
SECTION B

ST-36
 TYP
BASE SLAB FOR PRECAST VAULTS
 SCALE: NTS

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES
 1. SLOPE BASE TO SLAB SUMP, SLOPE = 1%.

DATE: 7/8/2025
 DESIGN: M. TAN
 DRAWN: T. TRAN
 CHECKED: J. RENTERIA
 ENGINEER



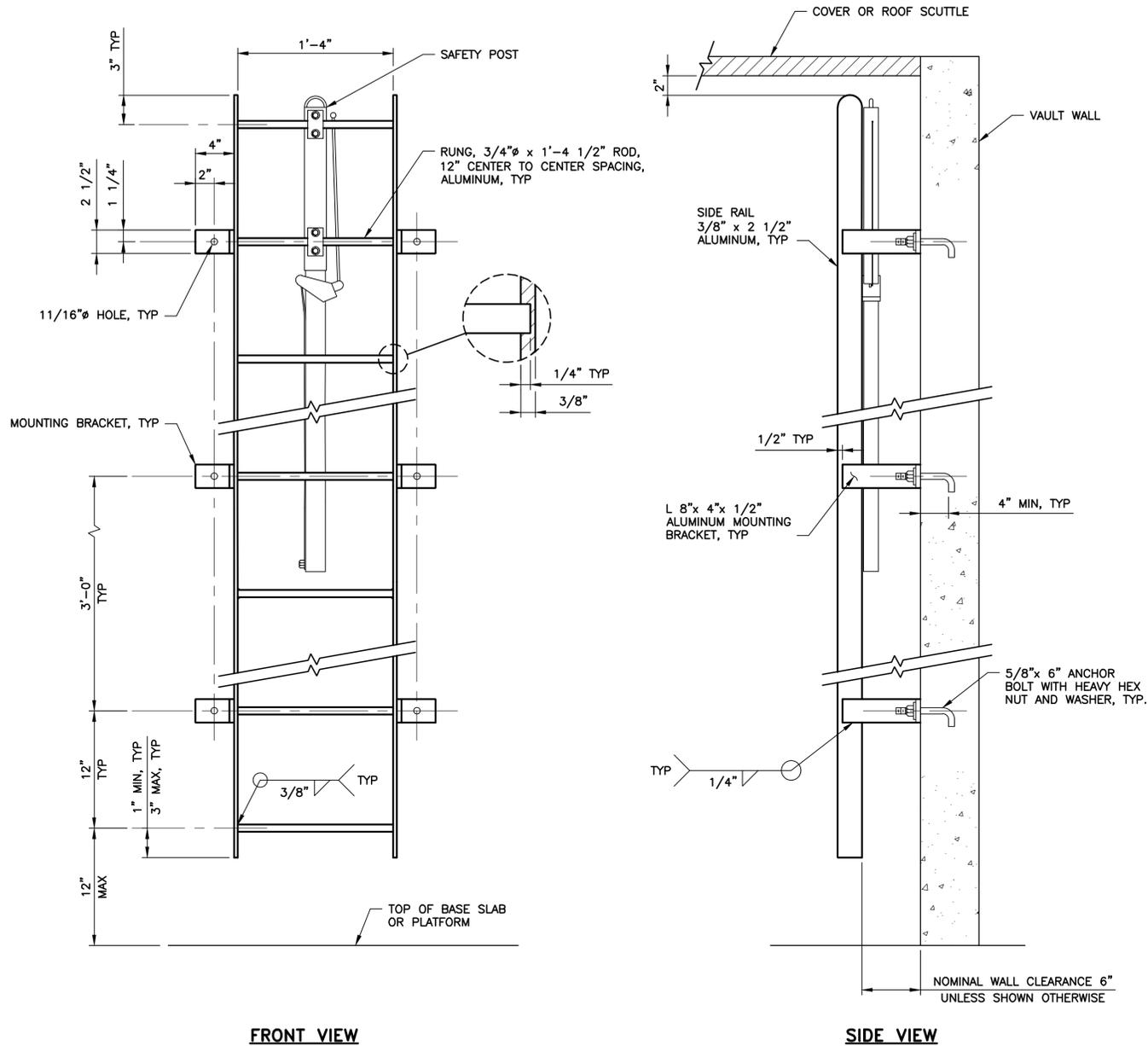
PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 STANDARD DETAILS - BASE SLAB FOR PRECAST VAULTS

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

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 SHEET CODE: C-18
 SHEET NUMBER: 26

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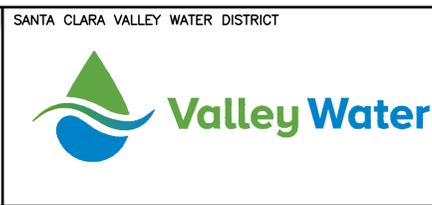
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ST-43 VAULT LADDER
 TYP SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION
DESIGN M. TAN	
DRAWN T. TRAN	
CHECKED J. RENTERIA	
ENGINEER	



PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 STANDARD DETAILS - VAULT LADDER

SCALE AS SHOWN	PROJECT NUMBER 91094009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-19
	SHEET NUMBER: 27

GENERAL NOTES:

1. CLASS DESIGNATION (36-510-7)
 36 = PIPE ID IN INCHES (NET INTERNAL)
 515 = DESIGN HYDRAULIC GRADE LINE, FEET OF HEAD*
 7 = EXTERNAL DESIGN, FEET OF COVER.
 * DESIGN PRESSURE IS 157 PSI. DESIGN PRESSURE IS CALCULATED USING THE DESIGN HYDRAULIC GRADE LINE OF 515 FEET OF HEAD MINUS THE SPRINGLINE ELEVATION AT THE LOWEST POINT OF THE SYSTEM WHICH IS 150 FEET AT STA 5+86.04.
2. STEEL FOR PIPE CYLINDER IS MINIMUM ALLOWED BASED ON USE OF ASTM A1001, A1018 GRADE 36 STEEL SHEET OR ASTM A36, ASTM 572 GRADE 36 STEEL PLATE OR EQUAL. FOR PIPE 12" OR LESS NOMINAL DIAMETER, ASTM A53 GRADE B STANDARD SCHEDULE STEEL PIPE MAY BE USED, UNLESS OTHERWISE NOTED.
3. INCREMENTAL THICKNESS CHANGES SHALL NOT EXCEED 1/8 INCH IN A MINIMUM DISTANCE OF 2 FEET FOR WELDED STEEL PIPE.
4. A DOUBLE WELD IS REQUIRED WHEN THE TABULATED WELD THROAT DIMENSION IS GREATER THAN 0.707 TIMES THE TOTAL CYLINDER THICKNESS AT THE STATIONING OF THE WELD.
5. PIPE 12" NOMINAL DIAMETER OR LESS SHALL BE SCHEDULE 40 STEEL PIPE. PIPE GREATER THAN 12" NOMINAL DIAMETER SHALL BE STEEL PIPE WITH MINIMUM CYLINDER THICKNESS OF 3/8", UNLESS OTHERWISE SPECIFIED.
6. UNLESS OTHERWISE SPECIFIED ALL OTHER CARV'S ARE SINGLE BODY TYPE AS SPECIFIED IN THE PROJECT SPECIFICATIONS.

STATION LIMITS	CLASS DESIGNATION	DESCRIPTION OF PIPE JOINT TYPE
38+91 - 88+33	36" HDPE IPS PE 4710 DR 11	BUTT FUSION ALL HDPE PIPE JOINTS FLANGE JOINT ALL DISSIMILAR MATERIALS
300+00 - 331+86	24" HDPE IPS PE 4710 DR 11	BUTT FUSION ALL HDPE PIPE JOINTS FLANGE JOINT ALL DISSIMILAR MATERIALS

STATION	DESCRIPTION	REFER TO	COVER TYPE
310+40.00	TELEMETRY CABLE PULL BOX	C-02, E-01	UTILITY BOX W/ TRAFFIC RATED COVER
322+68.00	18"Ø NOZZLE, 18" TO 12" REDUCING NOZZLE & 12"Ø GV	C-03, C-07 DET 5	VAULT W/ TRAFFIC RATED COVER
331+08.53	24"Ø NOZZLE, 24" TO 4" REDUCING NOZZLE, & 4"Ø CARV	C-04, C-09 DET 2	VAULT W/ TRAFFIC RATED COVER
331+08.53	TELEMETRY CABLE PULL BOX	C-04, E-01	UTILITY BOX W/ TRAFFIC RATED COVER
331+86.70	24Ø x 20"Ø HDPE REDUCER, 20"Ø x 16"Ø HDPE REDUCER, HDPE TO STEEL CONNECTION	C-04, C-07 DET 2	BURIED
332+02.61	12Ø X 12"Ø X 12"Ø STEEL TEE & CONNECTION TO EXISTING 12"Ø RCW PIPELINE	C-04, C-06 DET 1	VAULT W/ TRAFFIC RATED COVER

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DOCUMENT NUMBER: WAE-C-9109-86782

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION
DESIGN M. TAN	
DRAWN T. TRAN	
CHECKED J. RENTERIA	
ENGINEER	

SANTA CLARA VALLEY WATER DISTRICT



PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 PIPE DESIGN TABLES

SCALE AS SHOWN	PROJECT NUMBER 91094009
VERIFY SCALES  BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-20 SHEET NUMBER: 28

APPLICABLE CODES AND STANDARDS:

- CALIFORNIA BUILDING CODE (CBC): THE CALIFORNIA CODE OF REGULATIONS (2019 CBC), BASED ON THE 2018 INTERNATIONAL BUILDING CODE.
- AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) / STRUCTURAL ENGINEERING INSTITUTE (SEI): ASCE 7-16
- AMERICAN CONCRETE INSTITUTE (ACI): ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318-99, STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI)
- AMERICAN CONCRETE INSTITUTE (ACI): ACI 360-06, BUILDING CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING STRUCTURES
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC): AISC 360-16, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
- AMERICAN WELDING SOCIETY (AWS): D1.1-10/D1.3-08/D1.1-10/D1.3-18/D1.4-18, STRUCTURAL WELDING CODE
- AISI 100-18, NORTH AMERICAN SPECIFICATIONS FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENTS
- AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM): ALL ASTM REFERENCES NOTED
- ALL OTHER LOCAL AND STATE AGENCIES HAVING JURISDICTION OVER THIS PROJECT.

DESIGN LOADS:

- DEAD LOAD - ACTUAL WEIGHT OF MATERIALS OF CONSTRUCTION USED. LIVE LOAD - PRODUCED BY OCCUPANCY ROOF 20 psf (REDUCIBLE)
- WIND LOAD: BASIC WIND SPEED, V 92 mph WIND EXPOSURE C
- SEISMIC LOAD RISK CATEGORY II SITE CLASS D ACCELERATION SITE COEFFICIENT, F_a 1.0 VELOCITY SITE COEFFICIENT, F_v 1.5 ADJUSTED DESIGN SPECTRAL RESPONSE ACCELERATIONS: AT SHORT PERIOD, S_{DS} 1.2g PENDING GEOTECH REPORT AT 1-SECOND PERIOD, S_{DI} 0.706g SEE ASCE 7-16 11.4.8

MATERIALS OF CONSTRUCTION:

- NORMAL WEIGHT CONCRETE: 28-DAY COMPRESSIVE STRENGTH f'c = 4,000 psi
- REINFORCING STEEL: ASTM A615 GR. 60 Fy = 60 ksi
- REINFORCING WELDED STEEL: ASTM A706 GR. 60 Fy = 60 ksi
- WELDED WIRE FABRIC: ASTM A815 Fy = 65 ksi
- STRUCTURAL STEEL
 - WIDE FLANGE AND TEE SHAPES: ASTM A992 Fy = 50 ksi
 - ANGLES, CHANNELS, AND PLATES: ASTM A36 Fy = 36 ksi
 - HSS RECTANGULAR & PIPE: ASTM A500 GR. B Fy = 46 ksi
- BOLTS: ASTM A325 Fy = 36 ksi
- ANCHOR BOLTS: ASTM F1554 Fy = 36 ksi (OR 105 ksi AS NOTED)
- NUTS: ASTM A563 GR. D
- WELDING ELECTRODES: MINIMUM STRENGTH OF 70 ksi
- COLD-FORMED STEEL: ASTM A570 Fy = 33 ksi (OR 50 ksi AS NOTED)

GENERAL CONSTRUCTION NOTES:

- STRUCTURAL DRAWINGS SHOULD NOT BE SCALED. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS, AND LARGE SCALE OVER SMALL.
- ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR LOCATION AND SIZE OF OPENINGS, BLOCKOUTS, FLOOR DEPRESSIONS, CURBS, DIMENSIONS, ETC. NOT INDICATED ON THE STRUCTURAL DRAWINGS. THE LOCATION AND SIZE OF MECHANICAL AND ELECTRICAL OPENINGS IN SLABS, WALLS AND DECKS SHALL BE COORDINATED BY THE CONTRACTOR. PROVIDE ALL ADDITIONAL FRAMING OR REINFORCING TO ACCOMMODATE OPENINGS AS REQUIRED BY THE APPLICABLE STANDARD DETAILS SHOWN ON THE STRUCTURAL DRAWINGS OR PROVIDED BY THE STRUCTURAL ENGINEER. NO HOLES, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL MEMBERS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
- WHERE DIMENSIONS ARE PROVIDED FOR OPENINGS, BLOCKOUTS, FLOOR DEPRESSIONS, CURBS, ETC., BUT MAY BE AFFECTED BY THE EQUIPMENT PURCHASED, THE CONTRACTOR SHALL VERIFY THE INFORMATION PROVIDED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS, CHECK AND VERIFY EXISTING DIMENSIONS, AND TAKE ADDITIONAL MEASUREMENTS AS NEEDED. NOTIFY ENGINEER OF ANY DISCREPANCY BETWEEN ACTUAL CONDITIONS AND INDICATED CONDITIONS. MODIFICATION OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER.
- CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED BY NEW WORK.
- ALL COLUMNS AND FOUNDATIONS, UNLESS NOTED OTHERWISE, SHALL BE CENTERED ON GRIDLINES IN EACH DIRECTION.
- TYPICAL DETAILS SHALL APPLY IN GENERAL CONSTRUCTION UNLESS SPECIFICALLY DETAILED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- PROVIDE CONCRETE EQUIPMENT PADS AND INERTIAL BASES FOR MECHANICAL AND ELECTRICAL INSTALLATIONS. CONSTRUCT PADS AND BASES IN ACCORDANCE WITH THE TYPICAL DETAILS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LIMITS AND LOCATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS, SHORING AND TEMPORARY BRACING. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKERS DURING CONSTRUCTION.
 - DO NOT PLACE CONSTRUCTION MATERIALS OR OTHER CONSTRUCTION LOADS ON THE STRUCTURE SUCH THAT THE LOADS PLACED EXCEED THE CAPACITY OF THE STRUCTURE.
 - TAKE INTO CONSIDERATION THAT FULL STRUCTURAL CAPACITY OF MANY STRUCTURAL MEMBERS IS NOT REALIZED UNTIL STRUCTURAL ASSEMBLY IS COMPLETE; THAT IS, UNTIL SLABS, DECKS, DIAGONAL BRACING, AND SHEAR WALLS ARE INSTALLED.
 - PROVIDE TEMPORARY BRACING AND GUYING TO PROVIDE STABILITY AND RESIST ALL LOADS TO WHICH THE PARTIALLY COMPLETED STRUCTURE MAY BE SUBJECTED INCLUDING ERECTION EQUIPMENT AND ITS OPERATION. ADEQUACY OF TEMPORARY BRACING AND GUYING FOR THIS PURPOSE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL COORDINATE SHORING TO MAINTAIN EGRESS ROUTES.

CAST-IN-PLACE CONCRETE NOTES:

- LOCATION OF CONSTRUCTION JOINTS OR POUR JOINTS SHALL BE AS INDICATED ON APPROVED SHOP DRAWINGS.
- ALL CONCRETE SHALL BE VIBRATED DURING PLACEMENT.
- PROVIDE 3/4 INCH CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
- NO STAKES, NEITHER STEEL NOR WOOD, SHALL BE PERMITTED IN ANY CONCRETE POUR. SUSPEND FORMS FROM ABOVE GRADE.
- ANCHOR BOLTS, DOWELS, REINFORCING STEEL, INSERTS, ETC., SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE. CONCRETE BLOCKS ONLY SHALL BE USED TO SUPPORT REINFORCING OFF GRADE.
- ALL REINFORCEMENT SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318 FOR TYPICAL REINFORCEMENT BENDING.
- PROVIDE DOWELS OF SAME SIZE AND NUMBER FROM ADJACENT POUR, BOTH VERTICALLY AND HORIZONTALLY, TO MATCH TYPICAL REINFORCING SHOWN. LAPS SHALL BE IN ACCORDANCE WITH THE DEVELOPMENT LENGTH AND LAP SPlice SCHEDULE. DOWELS SHALL BE CLEANED AFTER POUR.
- FIELD WELDING OR BENDING OF REINFORCING IS NOT PERMITTED EXCEPT AS INDICATED ON THE DRAWINGS OR AS APPROVED BY THE ENGINEER. USE LOW HYDROGEN ELECTRODES GRADE E70 OR E90 AS REQUIRED.
- NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO ALL POURS.
- CONTINUOUS REINFORCEMENT IN WALLS AND FOOTINGS MAY BE SPLICED AS REQUIRED, PROVIDED THAT BARS ARE OF THE LONGEST PRACTICAL LENGTH AND ALL SPLICES ARE SHOWN ON THE REINFORCING BAR SHOP DRAWINGS. SPLICES ARE TO BE STAGGERED WHEN POSSIBLE. PROVIDE LAP SPLICES AND DEVELOPMENT LENGTHS IN ACCORDANCE WITH THE DEVELOPMENT LENGTH AND LAP SPlice SCHEDULE. USE CLASS B LAP SPLICES UNLESS NOTED OTHERWISE.
- MINIMUM CAST-IN-PLACE (NONPRESTRESSED) CONCRETE COVER SHALL BE AS FOLLOWS:

CONCRETE TYPE AND PLACEMENT	REINF. SIZE	MIN COVER (in)
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	ALL	3
EXPOSED TO EARTH OR WEATHER TYPICAL	#6 THROUGH #18 #5 AND SMALLER	2 1 1/2
NOT EXPOSED TO WEATHER OR EARTH SLABS, WALLS, AND JOISTS	#14 THROUGH #18 #11 AND SMALLER	1 1/2 3/4
BEAMS AND COLUMNS (PRIMARY REINF., TIES, STIRRUPS, & SPIRALS)	ALL	1 1/2
- CONTRACTOR SHALL SCAN WALLS PRIOR TO DRILLING TO INSTALL POST INSTALLED ANCHORS. CONTRACTOR SHALL NOT DAMAGE/CUT EXISTING REINFORCEMENT STEEL WITHOUT APPROVAL FROM ENGINEER.
- EXISTING CONCRETE SURFACES TO BE JOINED WITH NEW CONCRETE SHALL BE THOROUGHLY CLEANED BY SANDBLASTING TO EXPOSE AGGREGATE AND COATED WITH EPOXY BONDING COMPOUND JUST PRIOR TO PLACEMENT OF NEW CONCRETE.
- CAST-IN-PLACE STRUCTURES ACCESS HATCHES SHALL BE DESIGNED FOR A LIVE LOADING CONSISTENT WITH LOAD LEVEL 7 PER TABLE X1.1 IN ASTM C 1802.
- LAP SPlice LENGTH SHALL BE MIN 30" UNLESS NOTED OTHERWISE ON DRAWINGS.

FOUNDATION DESIGN NOTES:

- THE FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY PARIKH CONSULTANTS INC., "GEOTECHNICAL INVESTIGATION REPORT, MAIN AVENUE AND MADRONE PIPELINES RESTORATION PROJECT", DATED MAY 2016 AND ADDENDUM NO.1, DATED MARCH 7, 2017. PENDING GEOTECH REPORT
- ALL FOUNDATION AND EXCAVATION SHOULD BE DONE PER THE GEOTECHNICAL REPORT RECOMMENDATIONS AND THE CONSTRUCTION DOCUMENTS.

SPECIAL INSPECTION:

- SPECIAL INSPECTION IN ACCORDANCE WITH CBC, CHAPTER 17 SHALL BE REQUIRED FOR THE FOLLOWING WORK:
 - CONCRETE CAST-IN-PLACE ANCHOR BOLTS
 - REINFORCING STEEL

PRECAST VAULT NOTES:

- ALL PLANS AND CALCULATIONS PERFORMED FOR THE DESIGN OF THE PRECAST VAULT AND ALL CONNECTIONS SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA AND SUBMITTED TO THE SCVWD FOR REVIEW.
- PRECAST UNDERGROUND VAULTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIFIED LOAD CONDITIONS AND WITH ASTM C 857 AND C 858.
- PRECAST VAULTS AND ACCESS HATCHES SHALL BE DESIGNED FOR A LIVE LOADING CONSISTENT WITH A-16 PER TABLE 1 IN ASTM C 857 WITH A 30% INCREASE DUE TO IMPACT LOAD. FOR LATERAL LIVE LOADING AGAINST UNDERGROUND VAULT WALLS, SEE DESIGN DATA.
- ALL LIFTING DEVICES AND ANY INSERTS USED TO PLACE PRECAST VAULTS IN PLACE SHALL MEET OSHA REQUIREMENTS. REINFORCING BARS SHALL NOT BE USED AS LIFTING DEVICES.
- REFER TO ASTM C 891 FOR INSTALLATION OF PRECAST UNDERGROUND STRUCTURES.
- THE MANUFACTURER SHALL COMPLY WITH ASTM C 1037 AND SHALL SUPPLY ANY ASSOCIATED TEST DATA AND INSPECTION RECORDS TO THE SCVWD REPRESENTATIVE.
- PRECAST CONCRETE SHALL MEET THE CAST-IN-PLACE CONCRETE NOTES AS THEY APPLY.

PRECAST BUILDING (CHEMICAL FEED STATION) NOTES:

- ALL PLANS AND CALCULATIONS PERFORMED FOR THE DESIGN OF THE PRECAST BUILDING AND ALL CONNECTIONS SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA AND SUBMITTED TO THE SCVWD FOR REVIEW.

DESIGN DATA:

STRUCTURE NO	STRUCTURE NAME
1 C-05	PHASE 1B TO PHASE 1C CONNECTION
2 C-06	CONN TO EXIST 12" RCW PIPE

EARTH LOADS. PENDING GEOTECH REPORT:

UNIT WEIGHT OF SOIL δ = 120 PCF

EQUIVALENT FLUID EARTH PRESSURE:

	ABOVE GROUND WATER	BELOW GROUND WATER
ACTIVE	46 PCF	87 PCF
AT-REST	67 PCF	98 PCF
PASSIVE	840 PCF	840 PCF
ACTIVE	36 PCF	82 PCF
AT-REST	55 PCF	92 PCF
PASSIVE	455 PCF	455 PCF

LIVE LOAD SURCHARGE = 106 PSF (LATERAL)

SEISMIC EARTH LOAD = 24H² PLF (STRUCTURES 1 & 2)
= 17H² PLF (STRUCTURES 3 - 5)
APPLIED AT H/3 FROM BOTTOM OF H

ALLOWABLE BEARING PRESSURE			
STRUCTURE	1" SETTLEMENT (KSF)	DEAD LOAD (KSF)	DEAD AND LIVE LOAD (KSF)
1	3.2	9.7	14.5
2	3.5	8.7	13.0
3	2.6	8.7	13.0
4	5.6	8.8	13.2

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DOCUMENT NUMBER: WAE-S-9109-86783

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION
DESIGN M. TAN	
DRAWN T. TRAN	
CHECKED J. RENTERIA	
ENGINEER	

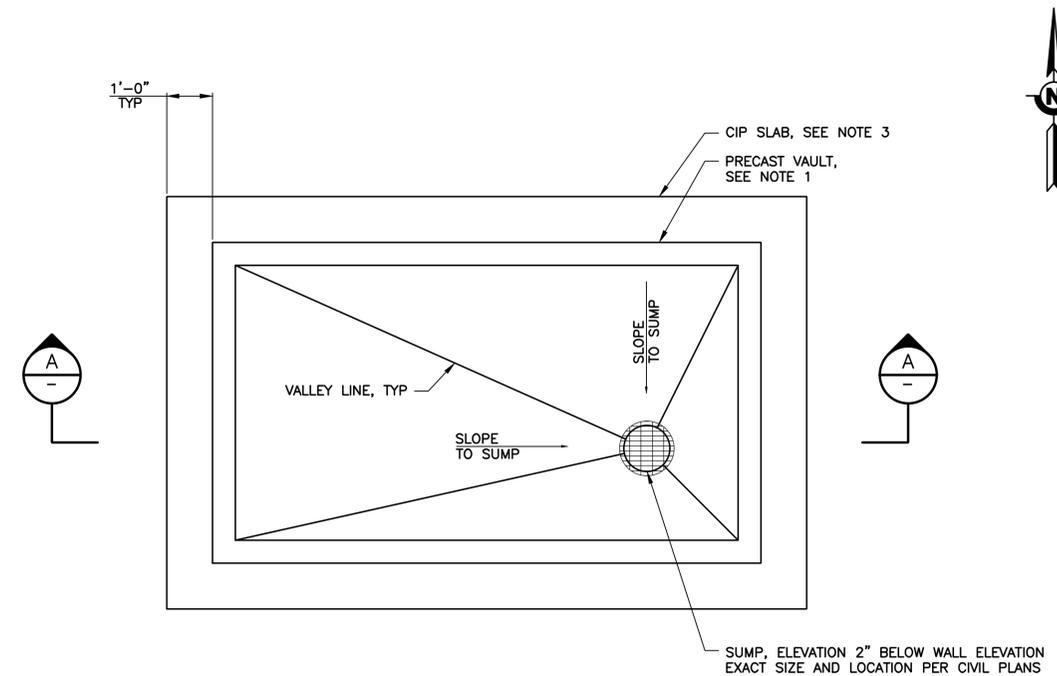
SANTA CLARA VALLEY WATER DISTRICT



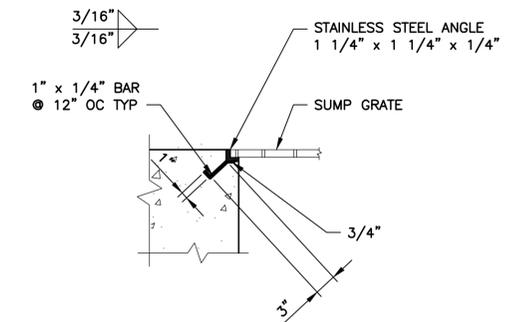
PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
GENERAL STRUCTURAL NOTES

SCALE AS SHOWN	PROJECT NUMBER 91094009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-01 SHEET NUMBER: 29

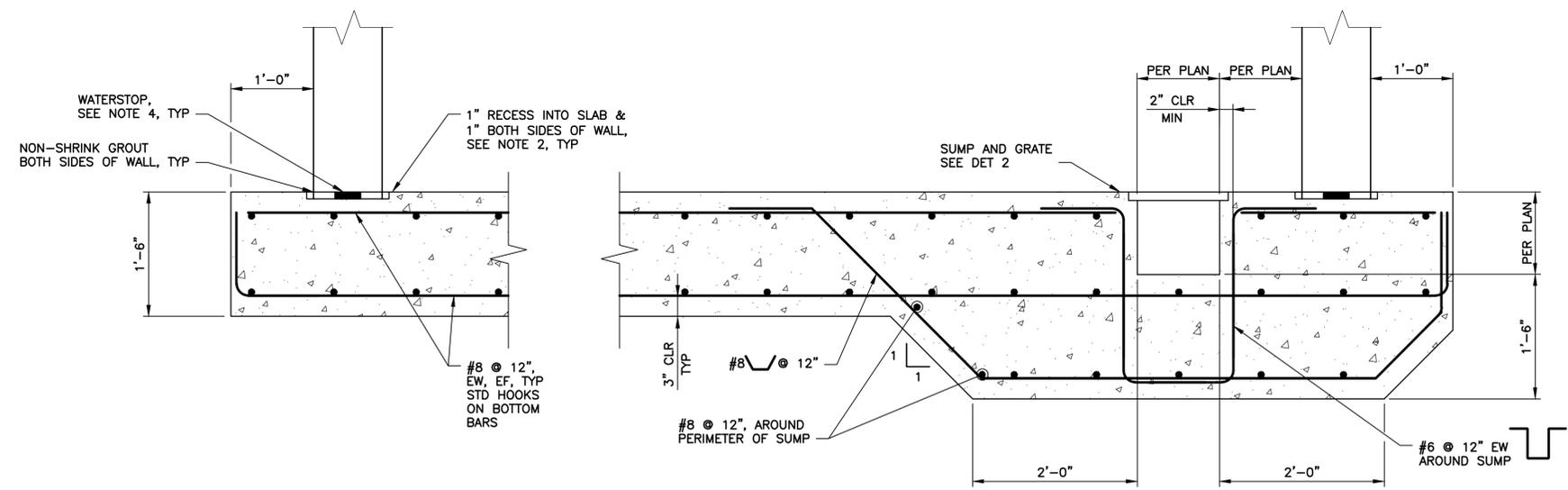
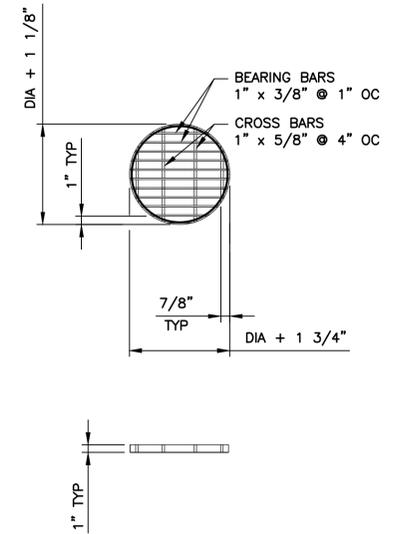
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TYPICAL DETAIL 1 PLAN VIEW
 SCALE: NTS



DETAIL 2 SUMP GRATE
 SCALE: NTS



SECTION A CIP SLAB
 SCALE: 1" = 1'-0"

NOTES:

1. PRECAST CONCRETE VAULT TO BE DESIGNED BY MANUFACTURER. FOR VAULT DIMENSIONS, ELEVATIONS AND OTHER REQUIREMENTS, SEE CIVIL SHEETS.
2. CONTRACTOR TO COORDINATE RECESS DIMENSIONS INTO CIP SLAB.
3. CONTRACTOR TO COORDINATE DIMENSIONS OF CIP SLAB WITH DIMENSIONS OF VAULT. ANY EQUIPMENT OR PIPE STANDS TO BE SECURED TO THE VAULT OR VAULT SLAB TO BE DONE PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS.
4. WATERSTOP SHALL BE NON SWELLING GASKET WATERSTOP.

DOCUMENT NUMBER: WAE-S-9109-86784

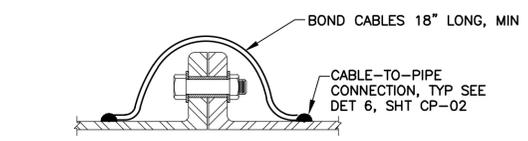
REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN M. TAN		
DRAWN T. TRAN		
CHECKED J. RENTERIA		
ENGINEER		

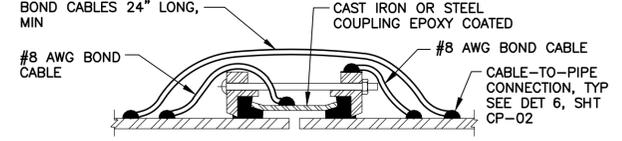
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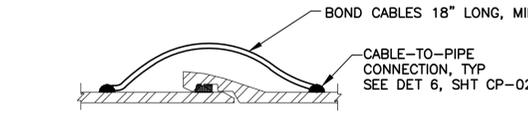
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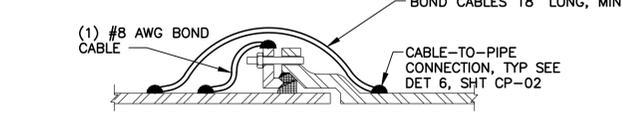
FLANGED JOINT



FLEXIBLE COUPLING

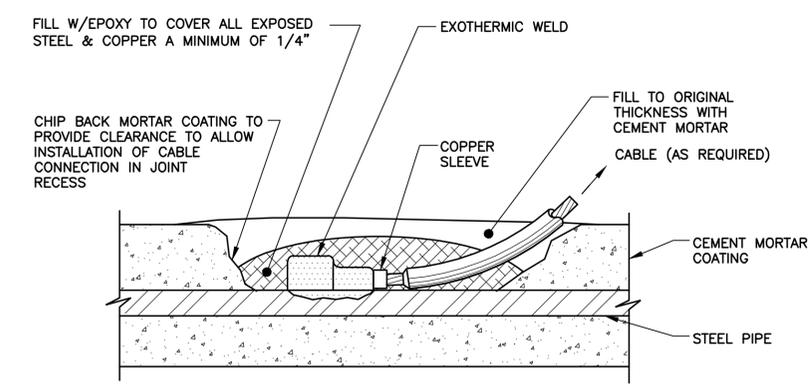


PUSH-ON JOINT



MECHANICAL JOINT

NOTE:
 USE TWO #4 AWG/HMWPE BOND CABLES FOR EACH NON-WELDED, NON-INSULATED PIPE JOINT, FOR ALL BOND WIRES SHOWN ABOVE EXCEPT FOR THE WIRE SIZES INDICATED ABOVE.



MORTAR COATED STEEL PIPE

NOTES:
 1. PROVIDE A MINIMUM SEPARATION OF 12" BETWEEN TWO ADJACENT CABLE-TO-PIPE CONNECTIONS.
 2. FOR EPOXY COATED PIPE, INSTALLED IN VAULTS OR SIMILAR ATMOSPHERIC ENVIRONMENTS, PROVIDE EXOTHERMIC WELD, AND COAT WITH BITUMASTIC 300-M OR EQUAL TO COVER ALL EXPOSED METAL.

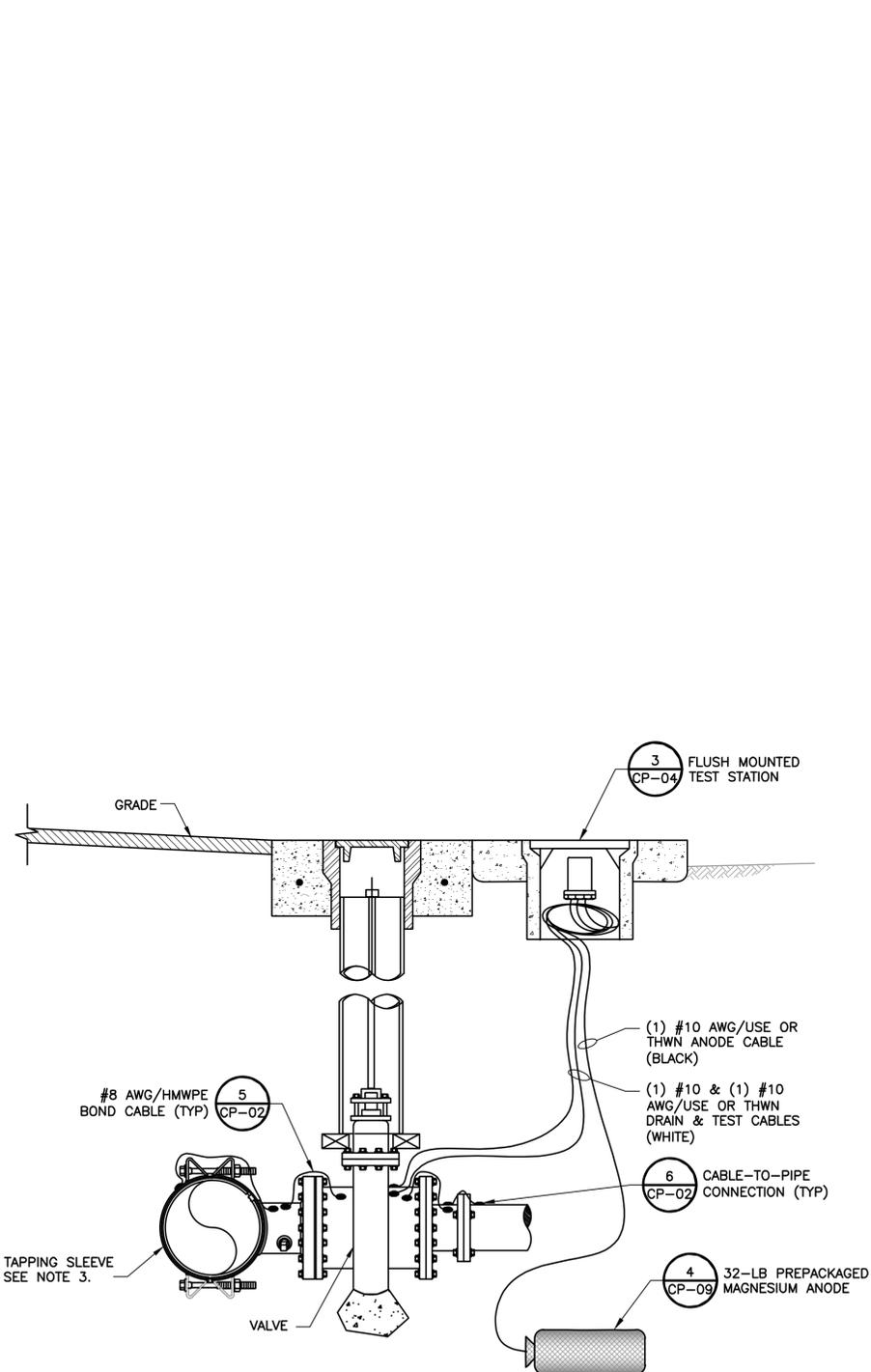
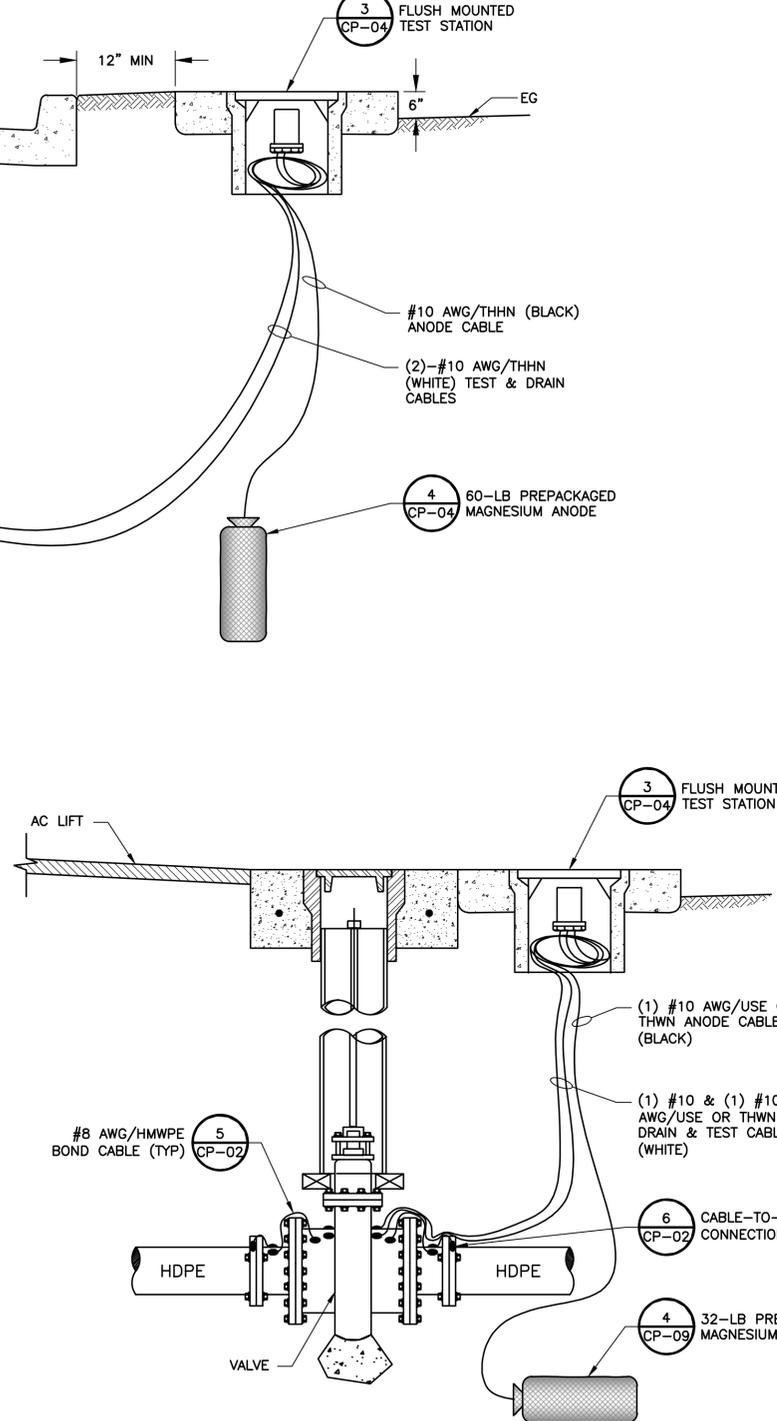
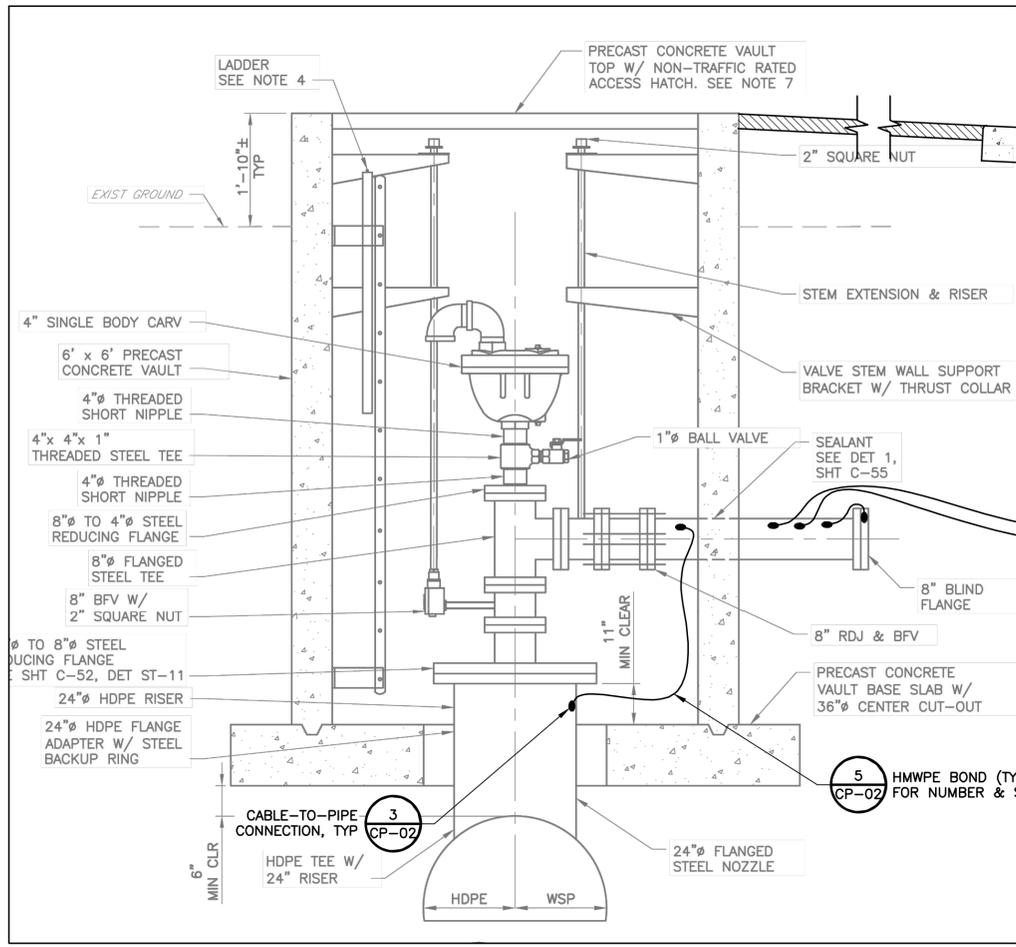
DETAIL 5
MORTAR COATED STEEL PIPE OPTION
BOND CABLE INSTALLATION
 SCALE: NTS

DETAIL 6
MORTAR COATED STEEL PIPE OPTION
CABLE-TO-PIPE CONNECTION
 SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					7/8/2025			SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C CATHODIC PROTECTION DETAILS II	AS SHOWN	91094009
									VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	CP-02 SHEET NUMBER: 32

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DOCUMENT NUMBER: WAE-CP-9109-86787



NOTES:

1. ALL BURIED, NON-WELDED, NON-INSULATING DUCTILE IRON OR STEEL JOINTS SHALL BE BONDED WITH HMWPE INSULATED COPPER CABLES FOR ELECTRICAL CONTINUITY OF THE METALLIC PIPE AND FITTINGS PER DET 5, SHT CP-06. NO BOND CABLES ARE REQUIRED ACROSS WELDED JOINTS.
2. CARVs ON HDPE PIPELINE SECTIONS, ANODES AND TEST STATIONS SHALL BE INSTALLED AS SHOWN IN THIS DETAIL. CARVs INSTALLED ON WELDED STEEL SECTIONS OF THE PIPELINE, UNDER IMPRESSED CURRENT CATHODIC PROTECTION, SHALL HAVE ONLY BOND CABLES INSTALLED, AND ANODES AND TEST STATIONS SHALL BE OMITTED.
3. TEST STATIONS SHALL BE INSTALLED OUT OF THE HIGH TRAFFIC AREAS BEHIND THE CURB AS INDICATED IN DETAIL 1/CP-05.

DETAIL 1 COMBINATION AIR RELEASE VALVE - ANODE & TEST STATION INSTALLATION
 SCALE: NTS

NOTES:

1. COMPLETELY ENCASE IN MORTAR, OR BACKFILL WITH CLSM, ALL DIRECT BURIED METALLIC STRUCTURES, INCLUDING FITTINGS, FLANGES, FASTENERS, AND ETC.
2. TEST STATIONS SHALL BE INSTALLED OUT OF THE HIGH TRAFFIC AREAS BEHIND THE CURB AS INDICATED IN DETAIL 1/CP-05.

DETAIL 3 IN-LINE VALVE - ANODE & TEST STATION INSTALLATION
 SCALE: NTS

NOTES:

1. COMPLETELY ENCASE IN MORTAR, OR BACKFILL WITH CLSM, ALL DIRECT BURIED METALLIC STRUCTURES, INCLUDING FITTINGS, FLANGES, FASTENERS, AND ETC.
2. TEST STATIONS SHALL BE INSTALLED OUT OF THE HIGH TRAFFIC AREAS BEHIND THE CURB AS INDICATED IN DETAIL 1/CP-05.

DETAIL 4 TAPPING SLEEVE & VALVE - ANODE & TEST STATION INSTALLATION
 SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE: 7/8/2025
 DESIGN: M. TAN
 DRAWN: T. TRAN
 CHECKED: J. RENTERIA
 ENGINEER: DATE

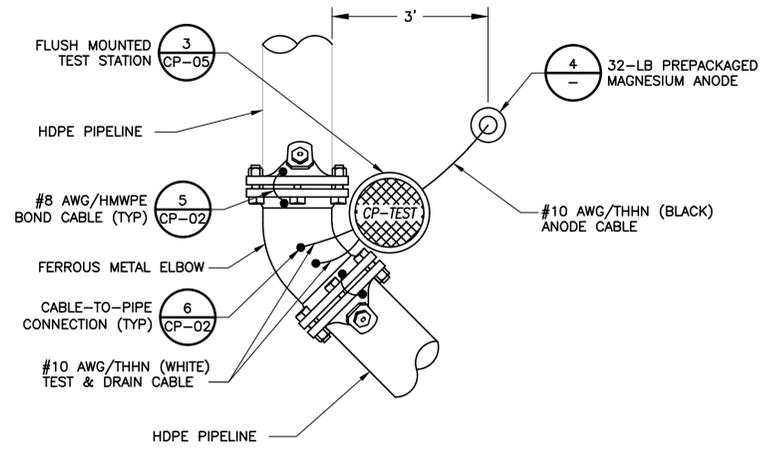
ENGINEERING CERTIFICATION: SANTA CLARA VALLEY WATER DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 CATHODIC PROTECTION DETAILS III

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: 91094009
 SHEET CODE: CP-03
 SHEET NUMBER: 33

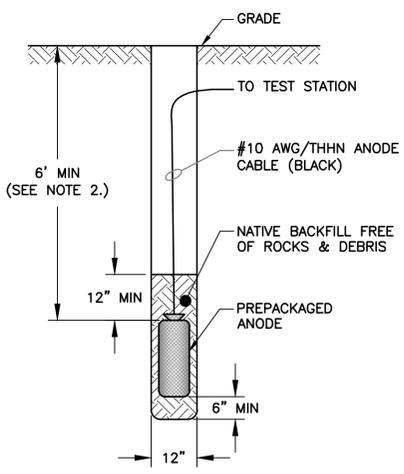
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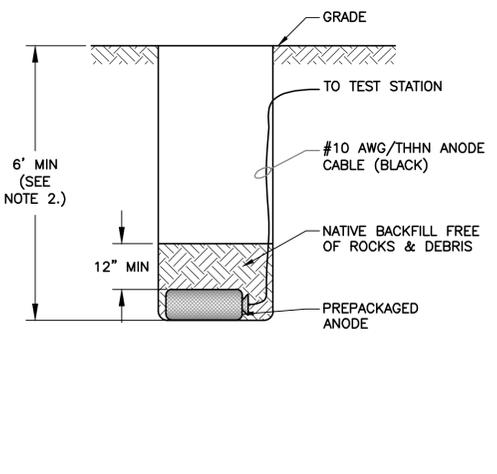
NOTES:

1. COAT ALL BURIED BOLTS & NUTS WITH BITUMASTIC AND ENCASE ALL DUCTILE IRON PIPE AND FITTINGS IN POLYETHYLENE PER CATHODIC PROTECTION GENERAL NOTE 1. ON SHEET CP-01.
2. TEST STATIONS SHALL BE INSTALLED OUT OF THE HIGH TRAFFIC AREAS BEHIND THE CURB AS INDICATED IN DETAIL 1/CP-05.
3. IF TEST STATION IS INSTALLED IN EXISTING SIDEWALK, REPLACE ENTIRE SQUARE FROM CURB TO BACK OF SIDEWALK, AND FROM JOINT TO JOINT ALONG THE SIDEWALK PER CITY STANDARDS.

DETAIL 1 FITTING - ANODE & TEST STATION
 CP-04 SCALE: NTS



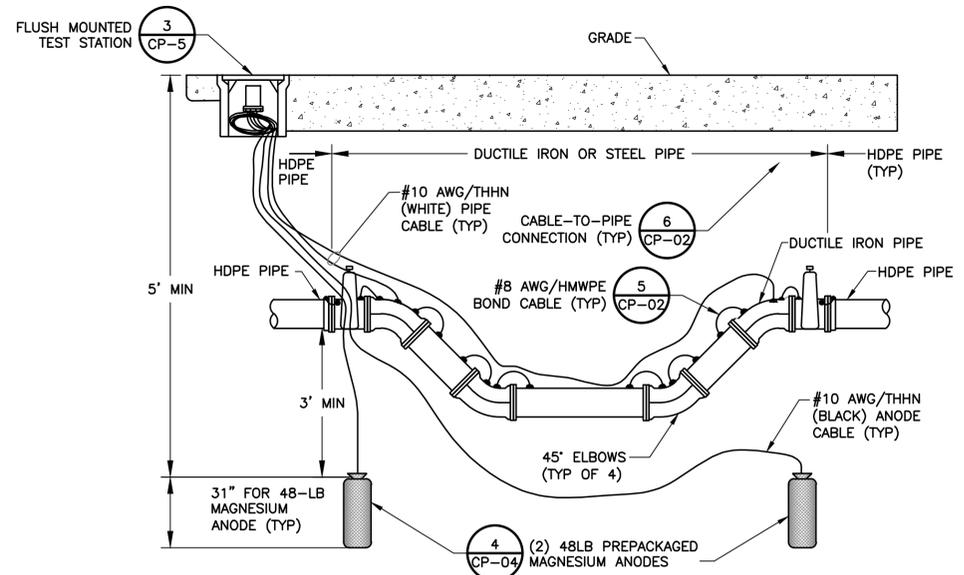
VERTICAL INSTALLATION



HORIZONTAL INSTALLATION

NOTES:

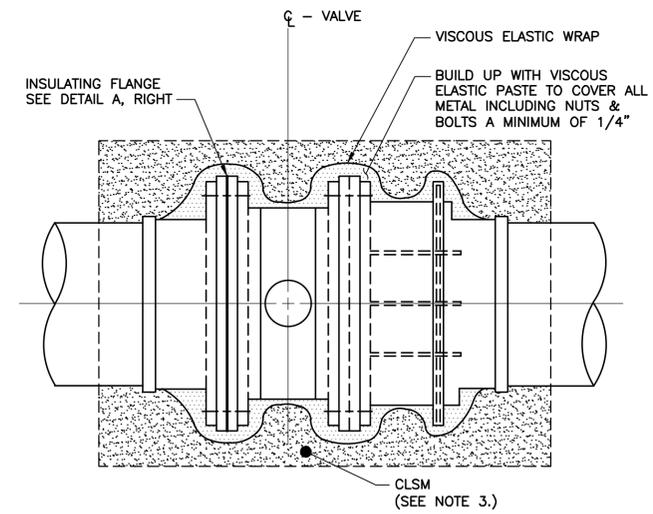
1. INSTALL ANODES 3 FEET OFF THE PIPE/FITTING IN NATIVE SOIL.
2. FOR SACRIFICIAL ANODES PROTECTING DUCTILE IRON VALVES, FITTINGS & RISERS OF HDPE OR HDPE PIPELINES, ANODES MAY BE INSTALLED SUCH THAT THE TOP OF THE ANODE IS PLACED BELOW THE BOTTOM OF THE VALVE OR FITTING. FOR DUCTILE IRON PIPELINE INSTALLATIONS, ANODE SHALL BE INSTALLED TO A MINIMUM DEPTH OF 6 FEET AS INDICATED IN THIS DETAIL. A MINIMUM OF A 3 FEET DISTANCE SHALL BE MAINTAINED BETWEEN EACH ANODE AND THE DUCTILE IRON STRUCTURE IT PROTECTS IN ALL CASES.
3. THE ANODES MAY BE INSTALLED HORIZONTALLY OR VERTICALLY UPON DISCRETION OF THE CONTRACTOR.
4. MAINTAIN A MIN. DISTANCE OF 10 FEET BETWEEN ANODES IF MULTIPLE ANODES ARE INSTALLED.



NOTES:

1. THIS DETAIL MAY BE USED FOR ALL UNDERGROUND SECTIONS OF DUCTILE IRON PIPE INCLUDING CROSSING UNDER OR OVER A PIPE, BRIDGE AND SHORT RUNS OF DUCTILE IRON PIPE. IN ALL CASES A MINIMUM OF ONE ANODE SHALL BE INSTALLED ON EACH END OF A DUCTILE IRON PIPE SEGMENT.
2. THE ANODE SHALL BE INSTALLED VERTICALLY OR HORIZONTALLY WITH THE TOP OF THE ANODE A MINIMUM OF 5 FT. BELOW GRADE AND 3 FT. BELOW PIPE.
3. THE BOND CABLES ARE REQUIRED TO MAKE THE DUCTILE IRON PIPE SEGMENT ELECTRICALLY CONTINUOUS FROM END TO END.
4. TEST STATIONS SHALL BE INSTALLED OUT OF THE HIGH TRAFFIC AREAS BEHIND THE CURB AS INDICATED IN DETAIL 1/CP-05

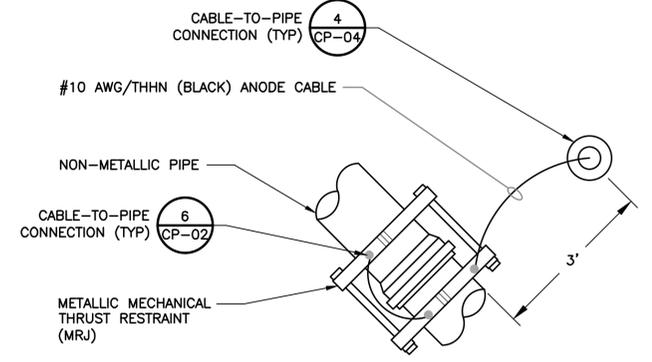
DETAIL 2 OFFSET (HDPE PIPE) - ANODE & TEST STATION
 CP-04 SCALE: NTS



NOTES:

1. OMIT COATING IF JOINT IS LOCATED ABOVE GRADE OR IN VAULTS.
2. THE ALLOY OF THE STEEL WASHERS SHALL BE THE SAME AS IS SPECIFIED FOR THE FLANGE BOLTS.
3. BACKFILL WITH CONTROLLED LOW-STRENGTH MATERIAL (CLSM) WITH A MAXIMUM COMPRESSIVE STRENGTH OF 200 PSI AND A MINIMUM COVER OF 6" OVER THE COATING.

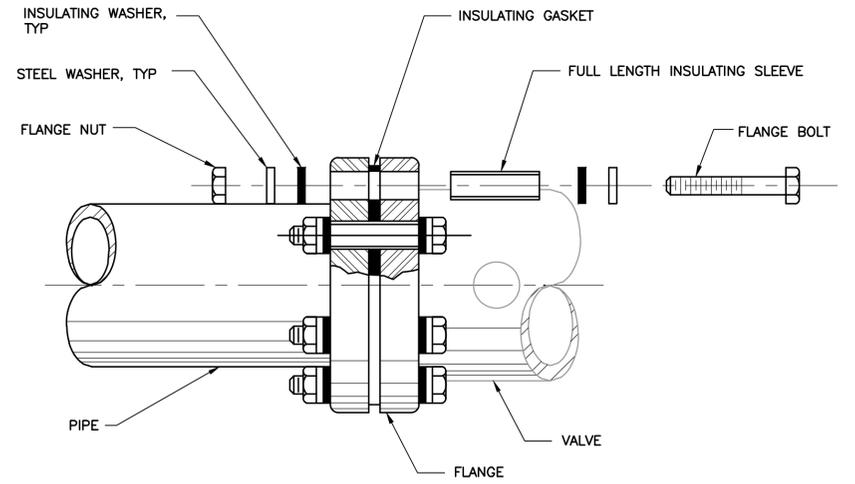
DETAIL 5 MECHANICAL PIPE JOINTS - COATING
 CP-04 SCALE: NTS



NOTE:

NO TEST STATION IS REQUIRED FOR THESE FITTINGS, HOWEVER A RECORD OF ALL INSTALLATIONS SHALL BE PROVIDED TO THE PROJECT ENGINEER.

DETAIL 3 MECHANICALLY RESTRAINED JOINT - ANODE INSTALLATION ON HDPE
 CP-04 SCALE: NTS



NOTES:

1. ALL BOLT HOLES SHALL BE REAMED AFTER FITTING COMPONENTS TOGETHER BUT BEFORE INSERTING INSULATING SLEEVES.
2. THE INSULATING FLANGE KIT SHALL BE FOR WATER SERVICE, SUITABLE FOR WET & DRY LOCATIONS, AND BE OF SAME PRESSURE RATING AS THE FLANGE.
3. THE ALLOY OF THE STEEL WASHERS SHALL BE THE SAME AS IS SPECIFIED FOR THE FLANGE BOLTS.
4. ALL INSULATING JOINTS SHALL BE TESTED AND APPROVED PRIOR TO BACKFILL.

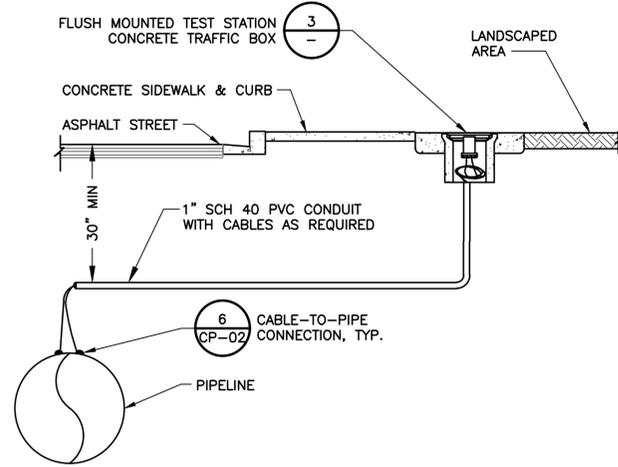
DETAIL 6 INSULATING FLANGE JOINTS ASSEMBLY
 CP-04 SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION SANTA CLARA VALLEY WATER DISTRICT
DESIGN M. TAN	
DRAWN T. TRAN	
CHECKED J. RENTERIA	
ENGINEER	

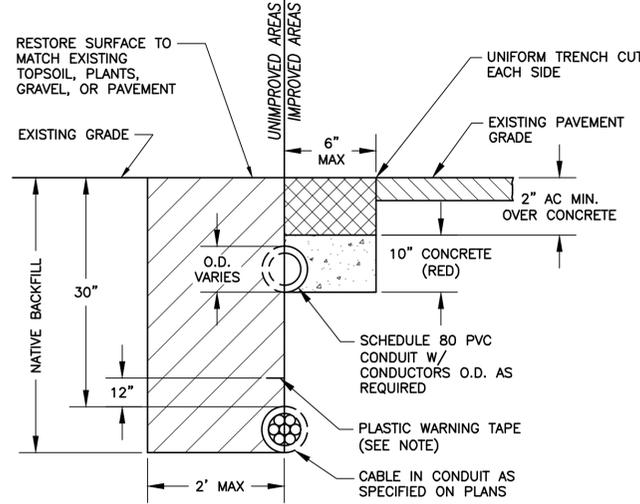
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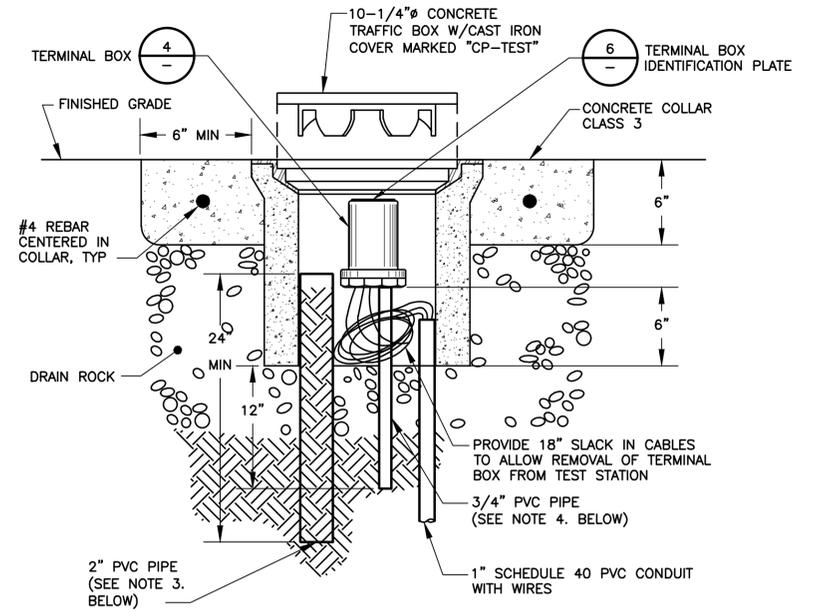
NOTE:
DO NOT INSTALL TEST STATIONS IN DRIVEWAYS.

DETAIL 1
CP-05 MORTAR COATED STEEL PIPE - TEST STATION INSTALLATION
SCALE: NTS



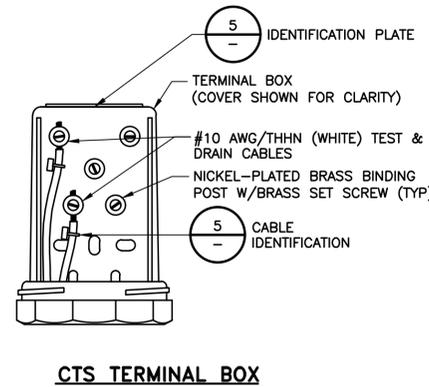
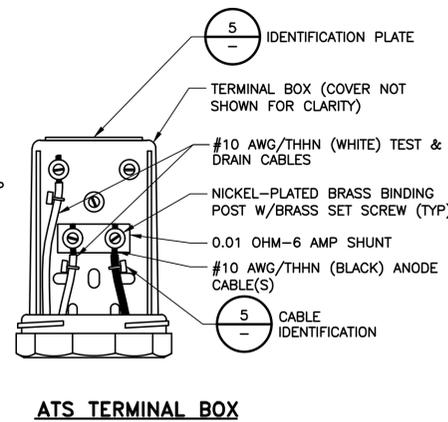
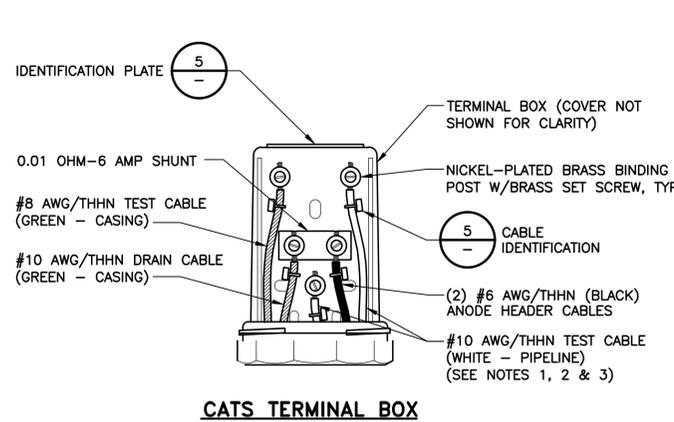
NOTE:
THE WARNING TAPE USED FOR ALL CABLES SHALL BE RED BURIAL TAPE.

DETAIL 2
CP-05 TYPICAL CABLE TRENCH SECTION
SCALE: NTS

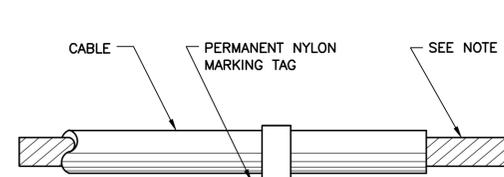


NOTES:
 1. FLUSH MOUNTED TEST STATIONS SHALL BE USED FOR ALL TEST STATIONS.
 2. IDENTIFY ALL CABLES PER DET 5, SHT CP-10.
 3. INSTALL 2" PVC PIPE IN CLEAN NATIVE SOIL. FILL PIPE WITH CLEAN SOIL, FREE FROM ROCKS & DEBRIS.
 4. INSTALL 18" LENGTH OF 3/4" PVC PIPE TO ENSURE THAT THE TERMINAL BOX WILL REMAIN IN THE UPRIGHT POSITION. POSITION THE PIPE SO THAT THE TERMINAL BOX WILL BE AS HIGH AS POSSIBLE WITH THE CAST IRON LID STILL CLOSING PROPERLY.

DETAIL 3
CP-05 MORTAR COATED STEEL PIPE OPTION FLUSH MOUNTED TEST STATION
SCALE: NTS



DETAIL 4
CP-05 TS TERMINAL BOX
SCALE: NTS

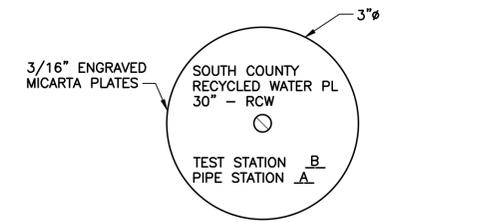


ABBREVIATIONS
 AN - ANODE
 RCW - RECYCLED WATER PIPELINE
 TT - TEST CABLE
 DR - DRAIN CABLE
 CA - CASING CABLE

NUMBER
 PIPE Ø (INCHES)

NOTES:
 1. THE MARKING TAGS SHALL BE ACCESSIBLE INSIDE THE TRAFFIC BOX.
 2. REMOVE INSULATION PRIOR TO FASTENING CABLE WITH SET SCREW.

DETAIL 5
CP-10 CABLE IDENTIFICATION
SCALE: NTS



TEST STATION IDENTIFICATION PLATE

LEGEND
 A- INDICATES PIPE STATIONING
 B- INDICATES TEST STATION TYPE: CTS, CATS, OR IJTS

NOTES:
 1. THE ENGRAVED LETTERING SHALL BE 3/8" HIGH, WHITE ON BLACK.
 2. THE PLATES SHALL BE BOLTED TO THE TEST STATION TERMINAL BOX WITH 1/4" BRASS BOLTS.

DETAIL 6
CP-10 IDENTIFICATION PLATE
SCALE: NTS

DOCUMENT NUMBER: WAE-CP-9109-86789

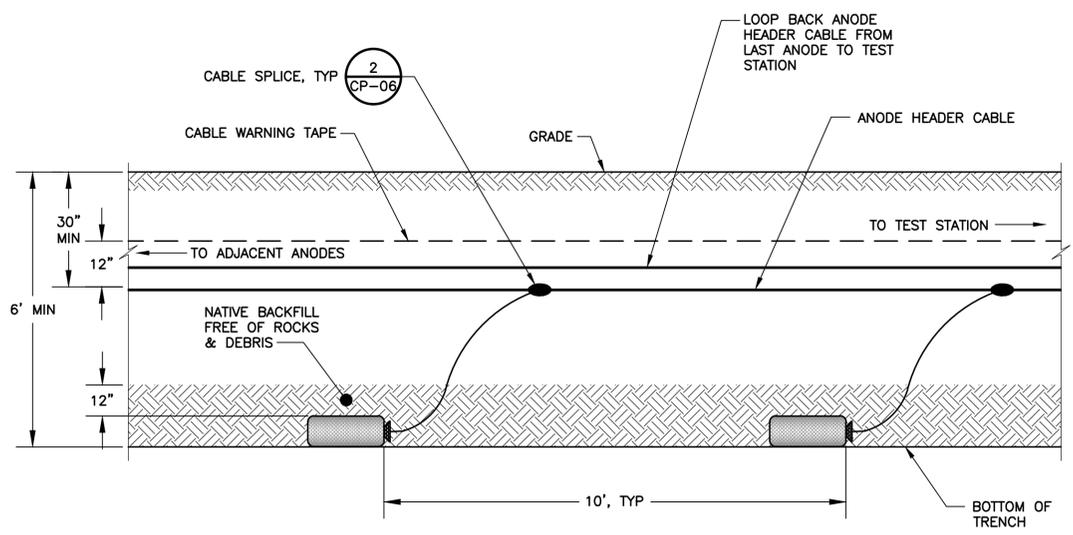
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DATE 7/8/2025	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN M. TAN		
DRAWN T. TRAN		
CHECKED J. RENTERIA		
ENGINEER		

PROJECT NAME AND SHEET DESCRIPTION: SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C		SCALE AS SHOWN	PROJECT NUMBER 91094009
CATHODIC PROTECTION DETAILS V		VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: CP-05
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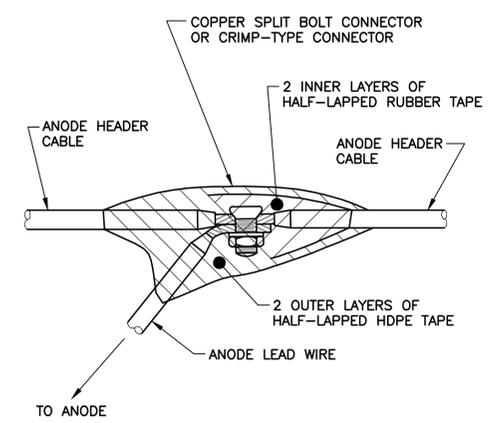
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DOCUMENT NUMBER: WAE-CP-9109-86790



NOTE:
 INSTALL ANODES PARALLEL TO THE PIPELINE AND 5 FT OFF THE PIPE.

DETAIL 1
 CP-06 **MULTIPLE ANODE INSTALLATION WITH HEADER CABLE LOOP**
 SCALE: NTS



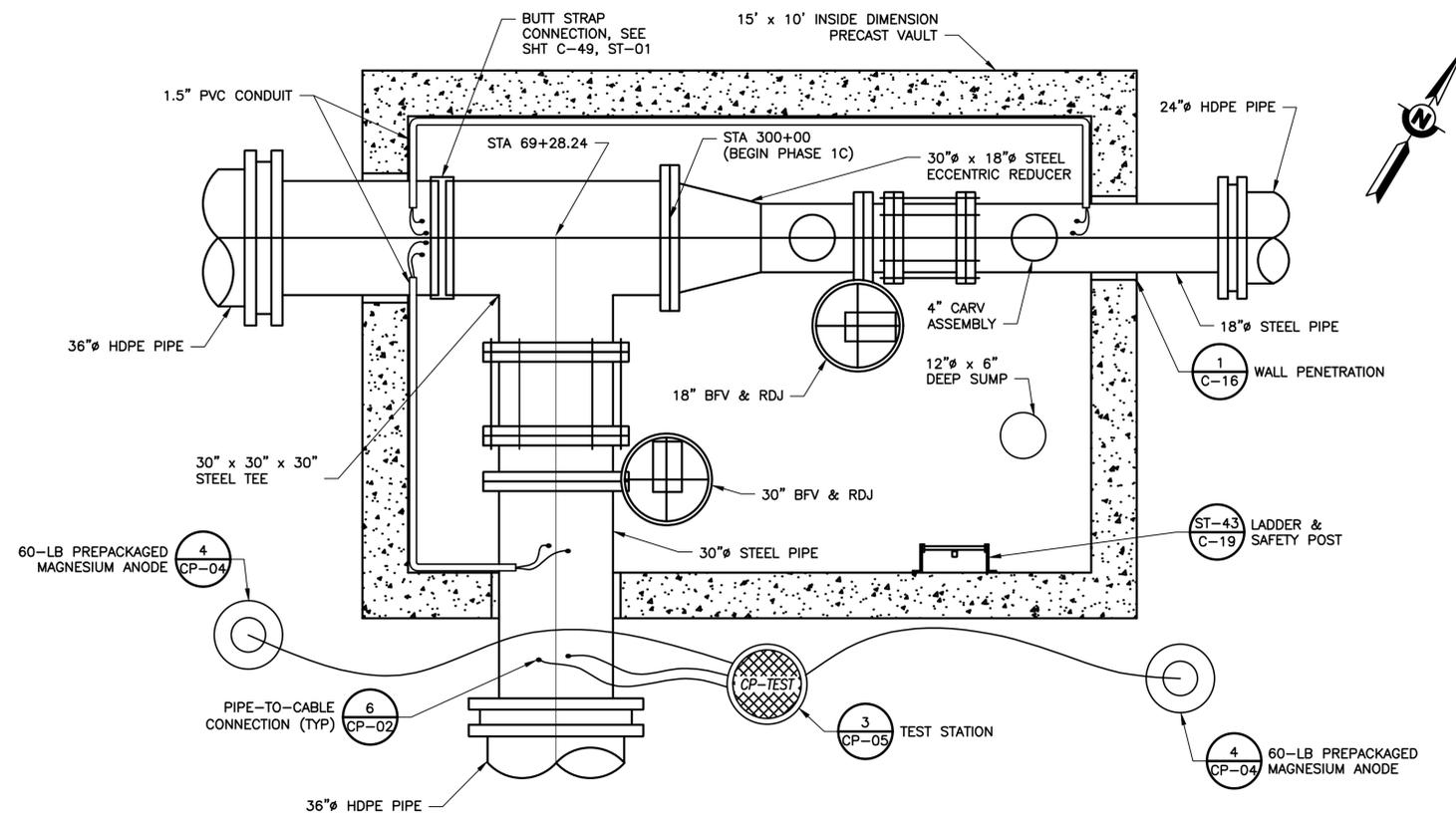
DETAIL 2
 CP-06 **CABLE SPLICE**
 SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

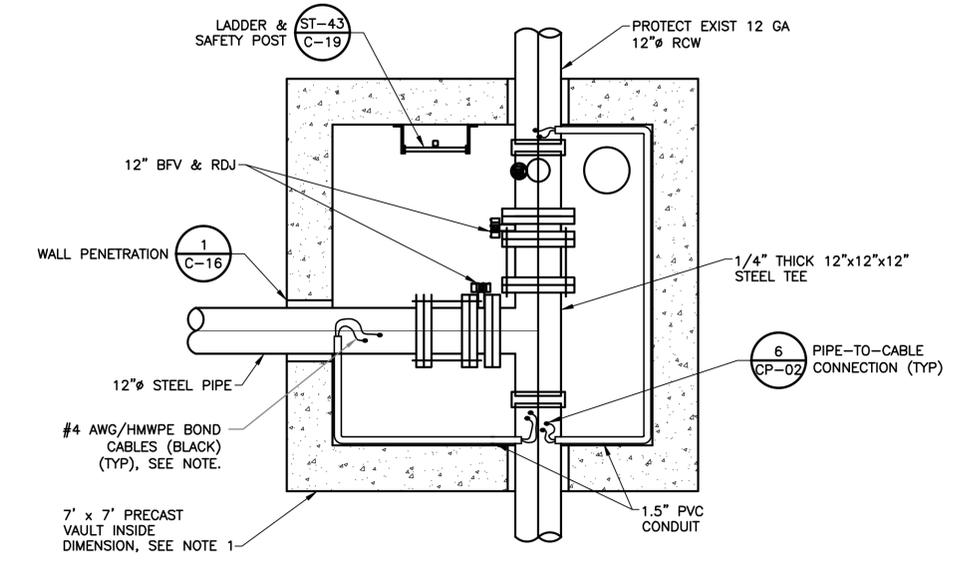
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DESIGN M. TAN		
DRAWN T. TRAN		
CHECKED J. RENTERIA		
ENGINEER		

PROJECT NAME AND SHEET DESCRIPTION: SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C CATHODIC PROTECTION DETAILS VI		SCALE AS SHOWN	PROJECT NUMBER 91094009
<p>BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</p>		SHEET CODE: CP-06	SHEET NUMBER: 36

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DETAIL 2 ANODE TEST STATION - PHASE 1B TO PHASE 1C CONNECTION VAULT
 SCALE: 1" = 2'



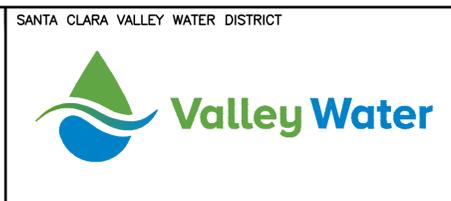
NOTE:
 BOND U/S & D/S PIPE SECTIONS WITH (2) #4 AWG/THWN BOND WIRES AND BOND ALL NEW BURIED, NON-WELDED PIPE JOINTS BETWEEN THE VAULT AND THE NEW HDPE PIPE CONNECTION.

**DETAIL 3 PHASE 1C CONNECTION TO EXIST 12\"/>
 SCALE: 1" = 2'**

DOCUMENT NUMBER: WAE-CP-9109-66397

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025	ENGINEERING CERTIFICATION
DESIGN M. TAN	
DRAWN T. TRAN	
CHECKED J. RENTERIA	
ENGINEER	

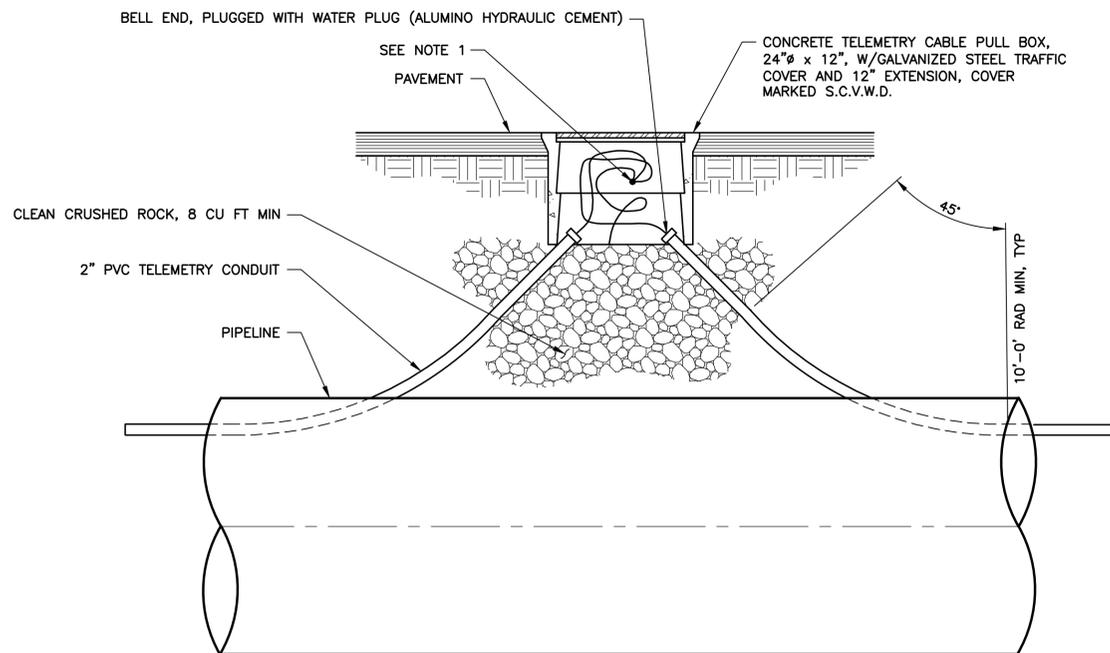


PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 CATHODIC PROTECTION DETAILS VII

SCALE AS SHOWN	PROJECT NUMBER 91094009
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: CP-07
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DOCUMENT NUMBER: WAE-E-9109-86792



NOTES:

1. INSTALL CAPS ON CONDUIT AND PULL ROPES THROUGH CAPS TO TEMPORARILY TIE ROPES FOR FUTURE USE.
2. SURFACE INSTALLED TELEMETRY PULL BOXES SHALL BE RATED FOR HS-20 TRAFFIC LOADING.

AT SPLICE LOCATIONS FOR FUTURE TELEMETRY CABLE-CONDUIT SYSTEM



SURFACE TELEMETRY CABLE PULL BOX DETAILS

SCALE: NTS

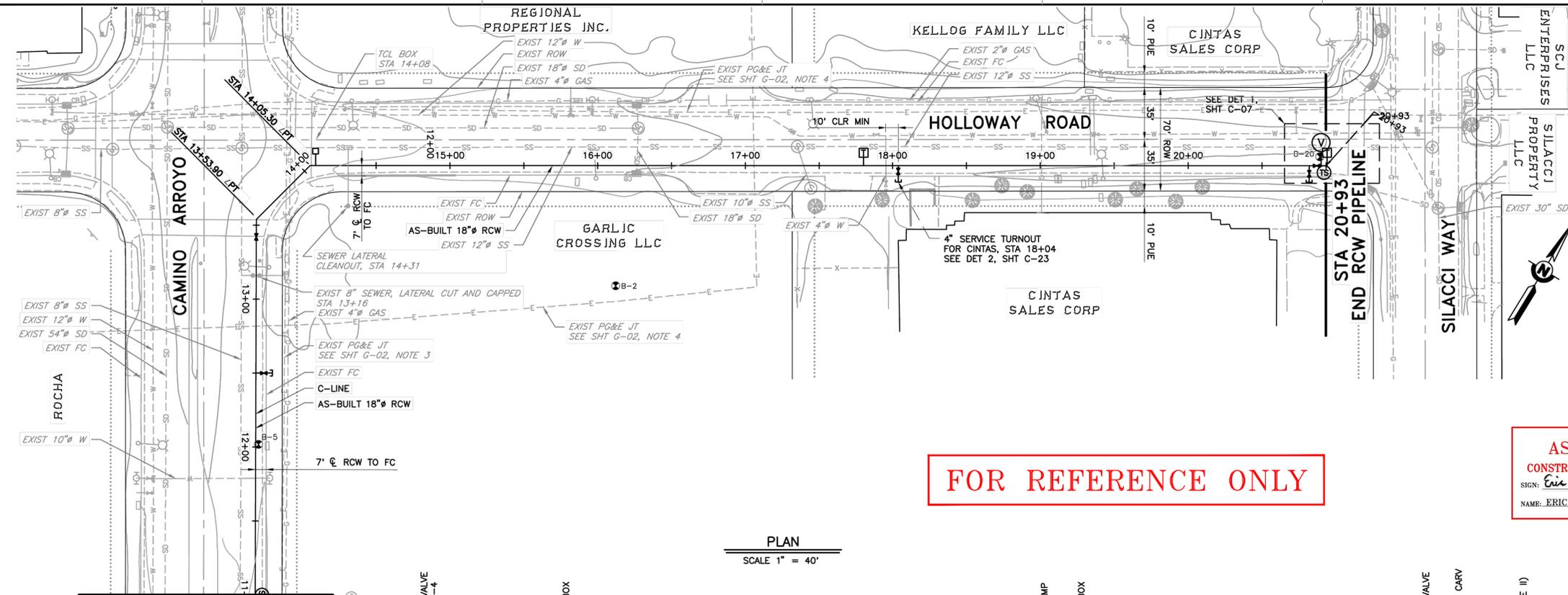
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DATE 7/8/2025	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN M. TAN		
DRAWN J. BAUTISTA		
CHECKED J. RENTERIA		
ENGINEER		

PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 STANDARD DETAIL - SURFACE TELEMETRY CABLE PULL BOX

SCALE AS SHOWN	PROJECT NUMBER 91094009
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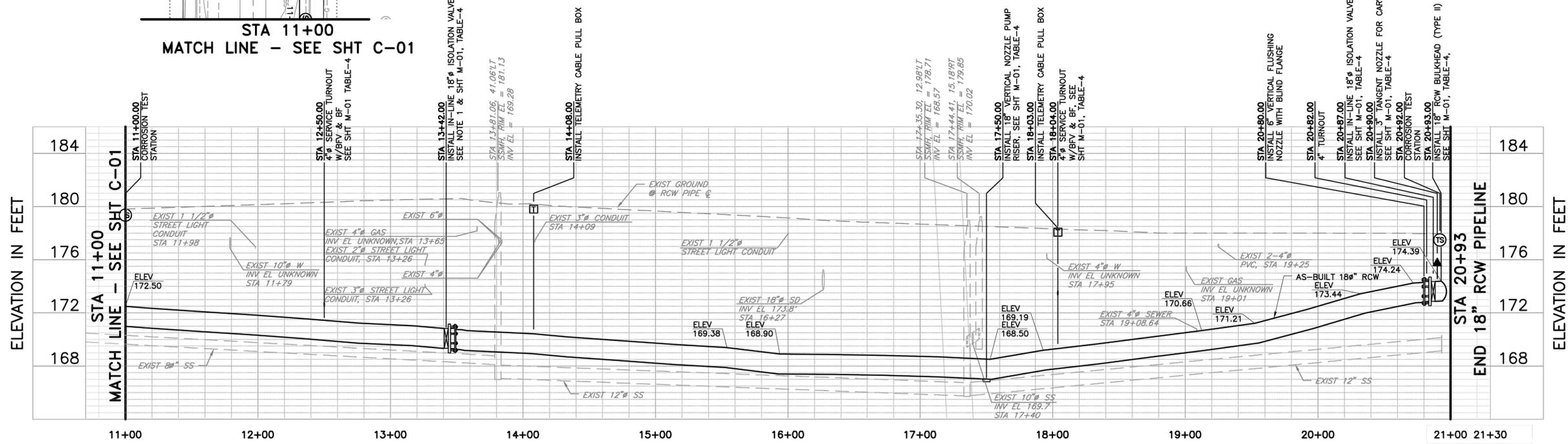
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 DOCUMENT NUMBER: WAE-R-9109-86793



FOR REFERENCE ONLY

AS-BUILT
 CONSTRUCTION INSPECTOR
 SIGN: *Eric D. Zozaya* DATE: 07/21/15
 NAME: ERIC ZOZAYA

PLAN
 SCALE 1" = 40'



PROFILE
 HORIZ: 1" = 40'
 VERT: 1" = 4'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
1	AS-BUILT	7/15	EZ	1. BURIED ISOLATION VALVES SHALL BE INSTALLED WITH STEM EXTENSION, VALVE BOX, TRAFFIC COVER AND VALVE POSITION INDICATOR (TYPICAL ALL ISOLATION VALVES).

DATE	ENGINEERING CERTIFICATION
JUN 2014	
DESIGN	
DRAWN	
CHECKED	

PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE, PHASE 1B PROJECT
CAMINO ARROYO SERVICE LINE
 PLAN AND PROFILE
 C-LINE STA 11+00 TO STA 20+93

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 CAMINO ARROYO AS-BUILT STA 11+00 TO 20+93

SCALE AS SHOWN	PROJECT NUMBER
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BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	C-02
	SHEET NUMBER:
	7 OF 39

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE	ENGINEERING CERTIFICATION
7/8/2025	
DESIGN	
DRAWN	
CHECKED	

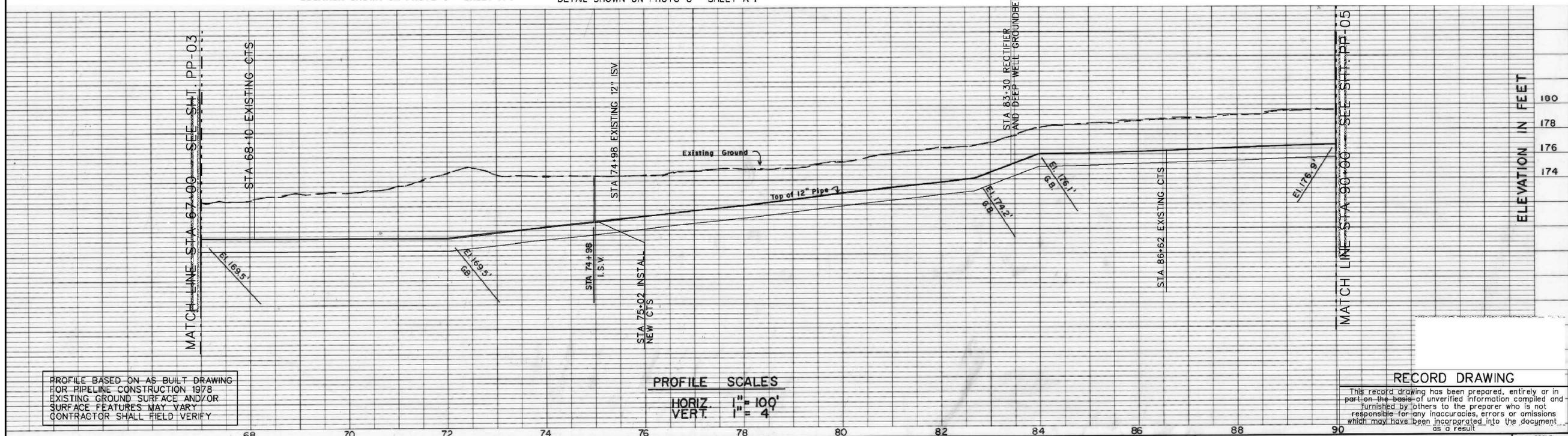
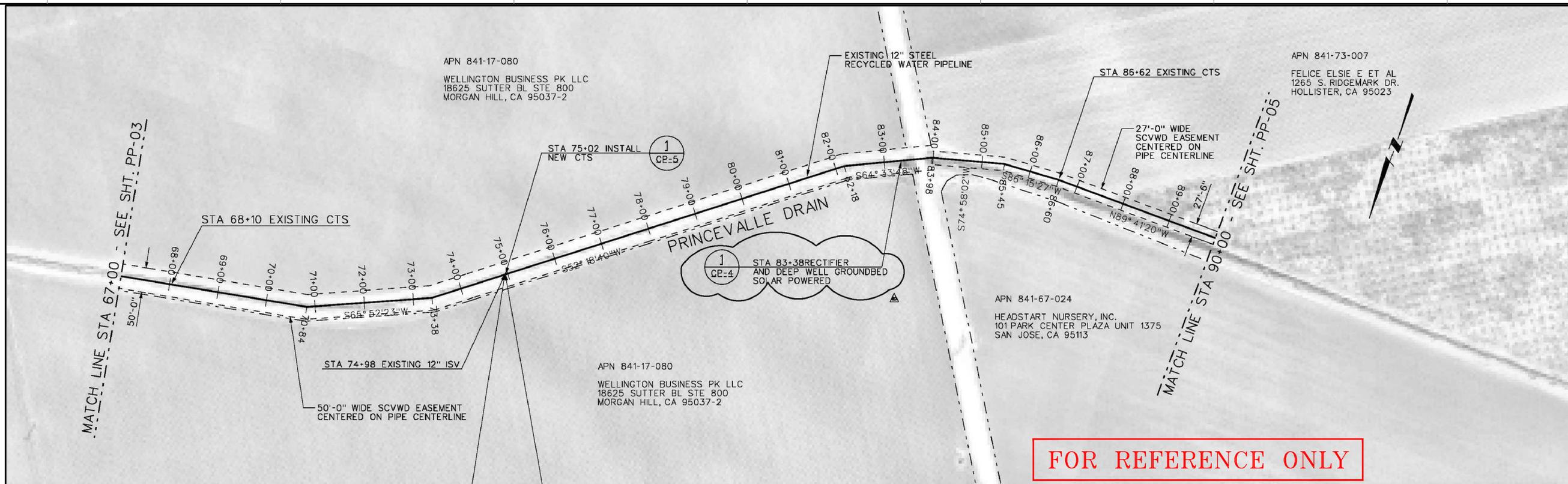
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SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 CAMINO ARROYO AS-BUILT STA 11+00 TO 20+93

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 CAMINO ARROYO AS-BUILT STA 11+00 TO 20+93

SCALE AS SHOWN	PROJECT NUMBER
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PROFILE BASED ON AS-BUILT DRAWING FOR PIPELINE CONSTRUCTION 1978 EXISTING GROUND SURFACE AND/OR SURFACE FEATURES MAY VARY CONTRACTOR SHALL FIELD VERIFY

PROFILE SCALES
 HORIZ. 1" = 100'
 VERT. 1" = 4'

RECORD DRAWING
 This record drawing has been prepared, entirely or in part on the basis of unverified information compiled and furnished by others to the preparer who is not responsible for any inaccuracies, errors or omissions which may have been incorporated into the document as a result

DATE	BY	RECORD DRAWING
11/02	NI	CONFORMED DRAWING
10/02	NI	ADDENDUM NUMBER 2

SCALE
 1" = 100' HORIZ.
 1" = 4' VERT.

DESIGNED N. IAMPONGSAI
 DRAWN N. IAMPONGSAI
 CHECKED J. BERGEN

PROJECT ENGINEER
 R. C. E. NO. 34684
 DATE 9-27-02



MONTGOMERY WATSON HARZA
 Walnut Creek California

South County Regional Wastewater Authority
 Santa Clara Valley Water District

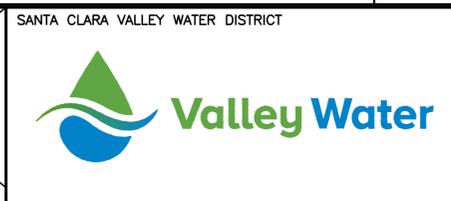
STAGE 1 RW FACILITIES:
 PIPELINE REHABILITATION
 MAIN LINE-STA 67+00 TO STA 90+00
 PLAN AND PROFILE

SHEET
 PP-04

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

DATE 7/8/2025
 DESIGN -
 DRAWN -
 CHECKED -
 ENGINEER DATE



PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 12" RCW AS-BUILT

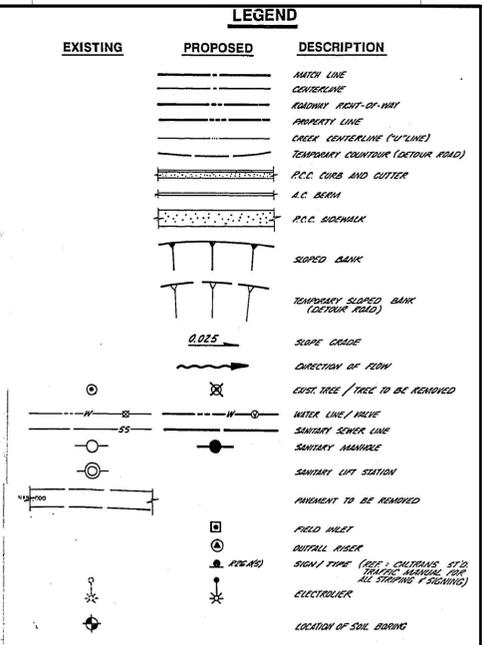
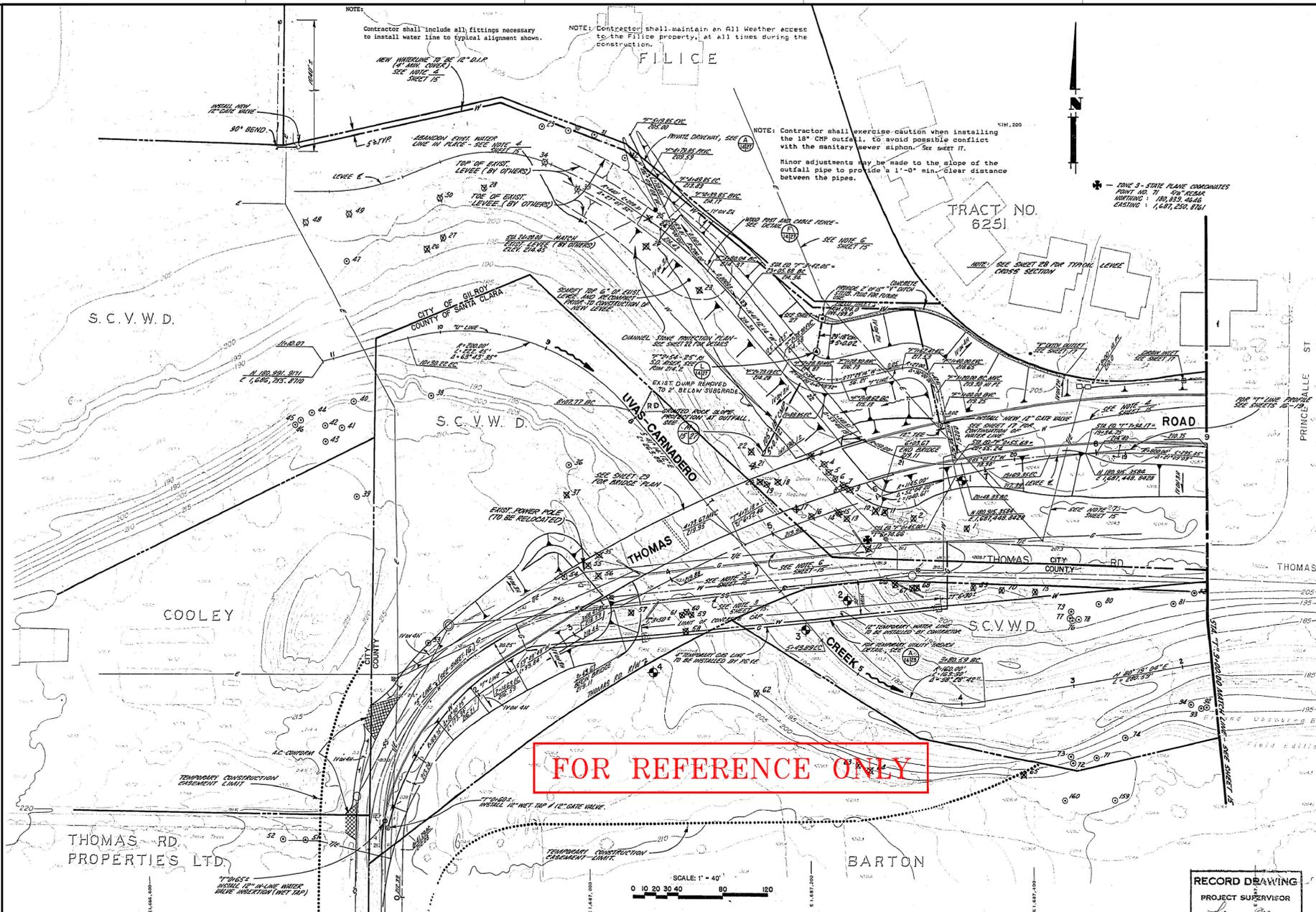
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PROJECT NUMBER
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ABBREVIATIONS

BC	BEGINNING OF CURVE
EC	END OF CURVE
BVC	BEGIN VERTICAL CURVE
MVC	MID-POINT VERTICAL CURVE
EVC	END VERTICAL CURVE
GB	GRADE BREAK
SS	SANITARY SEWER
T	TELEPHONE
E	ELECTRIC
T&B	TOP OF BANK
TD	TOP OF BRIDGE DECK
TB	TOP OF A.C. BEAM
PV	PAVEMENT
T*LINE	THOMAS RD. E.

N.I.C. / N.V.C. NOT IN CONTRACT
 *P*LINE PRINCIPALLE ST. E.
 *U*LINE UVAS CREEK E.
 *S*LINE THOMAS RD. E. (STA. 1+58+12.9 TO 1+58+47)
 *T*LINE LEVISE BASE LINE (STA. 1+61+66 TO 1+61+66)
 *T&S.P. TOP OF STONE PROTECTION

APPROVED:
 DATE: March 29, 1988
 Norman S. Allen
 CITY ENGINEER - CITY OF GILROY
 REG. EXPIRES: 7-31-10

R+G RUTH AND GOING, INC.
 CIVIL ENGINEERING Land Surveying
 2100 LINDY AVE. SAN JOSE, CA 95131 (408) 434-1800
 JOB # 17273-130

Robert A. Smith
 PROJECT SUPERVISOR
 ROBERT A. SMITH RCE 20821 EXP. 9-30-89 DATE: 5-28-88

Santa Clara Valley Water District

ACCEPTED BY DISTRICT: DATE: 5/28/88
 James K. Hyatt
 DISTRICT ENGINEER
 Russel Wilton
 DIVISION ENGINEER



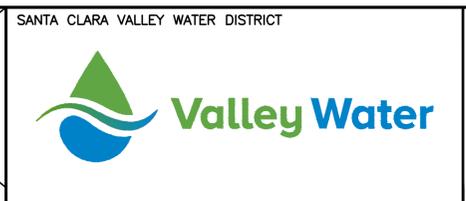
REVISION	DATE	DESCRIPTION	BY

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 DRAWN: [Signature]
 CHECKED: [Signature]
 SUBMITTED: [Signature]
 DATE APPROVED: [Signature]
 SCALE: AS SHOWN
 SHEET: 14
 FILE NO.:

TREE NO.	DESCRIPTION	REMARKS	TREE NO.	DESCRIPTION	REMARKS	TREE NO.	DESCRIPTION	REMARKS
1	5" & 6" Oak	To Be Removed	26	2 - 8" Oak	To Be Removed	76	8" & 11" Sycamore	To Remain
2	6" & 9" Oak	To Be Removed	27	10" Oak	To Be Removed	77	2 - 9" Sycamore	To Remain
3	13" Eucalyptus	To Be Removed	28	16" English Walnut	To Be Removed	78	18" Sycamore	To Remain
4	6" Eucalyptus	To Be Removed	29	19" English Walnut	To Be Removed	79	2 - 10" Sycamore	To Remain
5	9" Eucalyptus	To Be Removed	30	26" English Walnut	To Remain	80	60" Eucalyptus	To Remain
6	8" & 11" Eucalyptus	To Be Removed	31	17" English Walnut	To Remain	81	36" & 50" Sycamore	To Remain
7	11" Eucalyptus	To Be Removed	32	16" English Walnut	To Remain	82	18" Black Walnut	To Remain
8	11" Eucalyptus	To Be Removed	33	3 - 16" English Walnut	To Be Removed (N.I.C.)	83	2 - 25" & 20" Sycamore	To Remain
9	13" Eucalyptus	To Be Removed	34	6" Oak	To Be Removed (N.I.C.)	84	2 - 10" & 17" Black Walnut	To Remain
10	5 - 8" Eucalyptus	To Be Removed	35	9" Tree	To Be Removed (N.I.C.)	85	2 - 24" & 36" Sycamore	To Remain
11	13" Eucalyptus	To Be Removed	36	12" Oak	To Remain	86	10", 13" & 17" Oak	To Remain
12	13" Eucalyptus	To Be Removed	37	9" Oak	To Be Removed	87	30" Oak	To Remain
13	5 - 8" Eucalyptus	To Be Removed	38	15" Black Walnut (Base)	To Remain	88	30" Oak	To Remain
14	9" Eucalyptus	To Be Removed	39	64" Oak	To Remain	89	30" Oak	To Remain
15	8" Eucalyptus	To Be Removed	40	38" Oak	To Remain	90	12" Oak	To Remain
16	3 - 16" Black Walnut	To Be Removed	41	10" & 16" Oak	To Remain	91	28" Oak (Base)	To Remain
17	3 - 30" Eucalyptus	To Be Removed	42	12" Oak	To Remain	92	22" Sycamore	To Remain
18	19" Eucalyptus	To Be Removed	43	2 - 12" Oak	To Remain	93	30" Sycamore	To Remain
19	11" Eucalyptus	To Be Removed	44	6" Oak	To Remain	94	18", 21" & 24" Sycamore	To Remain
20	17" Eucalyptus	To Be Removed	45	11" Oak	To Remain	95	11", 19" & 31" Sycamore	To Remain
21	11" Eucalyptus	To Be Removed	46	9" Oak	To Remain	96	8" Black Walnut	To Remain
22	28" Black Walnut	To Be Removed	47	3 - 38" Sycamore	To Remain	97	22" Sycamore	To Remain
23	30" English Walnut	To Be Removed	48	23" English Walnut	To Be Removed (N.I.C.)	98	2 - 10" Black Walnut	To Remain
24	22" English Walnut	To Be Removed	49	29" English Walnut	To Be Removed (N.I.C.)	99	24" Sycamore	To Remain
25	16" English Walnut	To Be Removed	50	22" English Walnut	To Be Removed	100	9" Black Walnut	To Remain

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
7/8/2025	[Signature]	[Signature]
DESIGN		
DRAWN		
CHECKED		
	ENGINEER	DATE



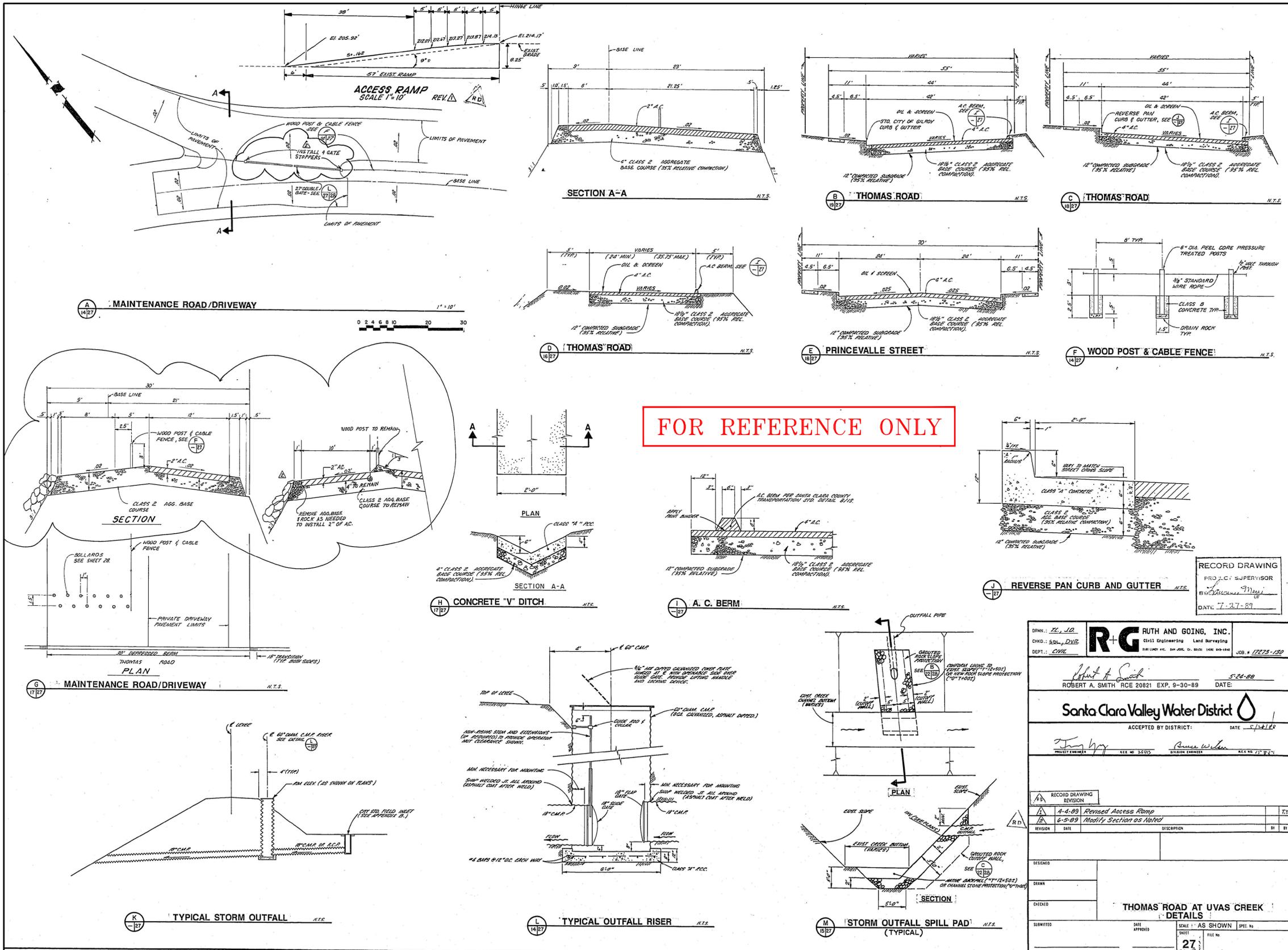
PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
 THOMAS ROAD BRIDGE AT UVAS CREEK AS-BUILT I

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

PROJECT NUMBER: **91094009**
 SHEET CODE: **R-04**
 SHEET NUMBER: **42**

USERNAME: TungTran 7/11/2025 4:29 PM
 FILENAME: K:\Active Projects\MP-91094009\SCRIP\SHEETS\REBID\SET 1\R-05.dwg

DOCUMENT NUMBER: WAE-R-9109-86797



RECORD DRAWING
 PROJECT SUPERVISOR
 DATE 7-27-89

R+G RUTH AND GOING, INC.
 CIVIL Engineering Land Surveying
 1111 Engineering Blvd., Suite 100, San Jose, CA 95128
 PHONE: (415) 281-1111 FAX: (415) 281-1112

ROBERT A. SMITH RCE 20821 EXP. 9-30-89 DATE: 5-24-89

Santa Clara Valley Water District
 ACCEPTED BY DISTRICT: DATE: 5-24-89

PROJECT ENGINEER: RCE NO. 22405 DIVISION ENGINEER: RCE NO. 21787

REVISION	DATE	DESCRIPTION	BY	BT
1	4-4-89	Revised Access Ramp		
2	6-5-89	Modify Section as Noted		

THOMAS ROAD AT UVAS CREEK DETAILS

SCALE: 1" AS SHOWN SPEC. No.
 SHEET: 27 FILE No.
 REV. 05

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					7/8/2025			SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C THOMAS ROAD BRIDGE AT UVAS CREEK AS-BUILT II	AS SHOWN	91094009
									VERIFY SCALES	SHEET CODE:
									0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	R-05
										SHEET NUMBER: 43

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