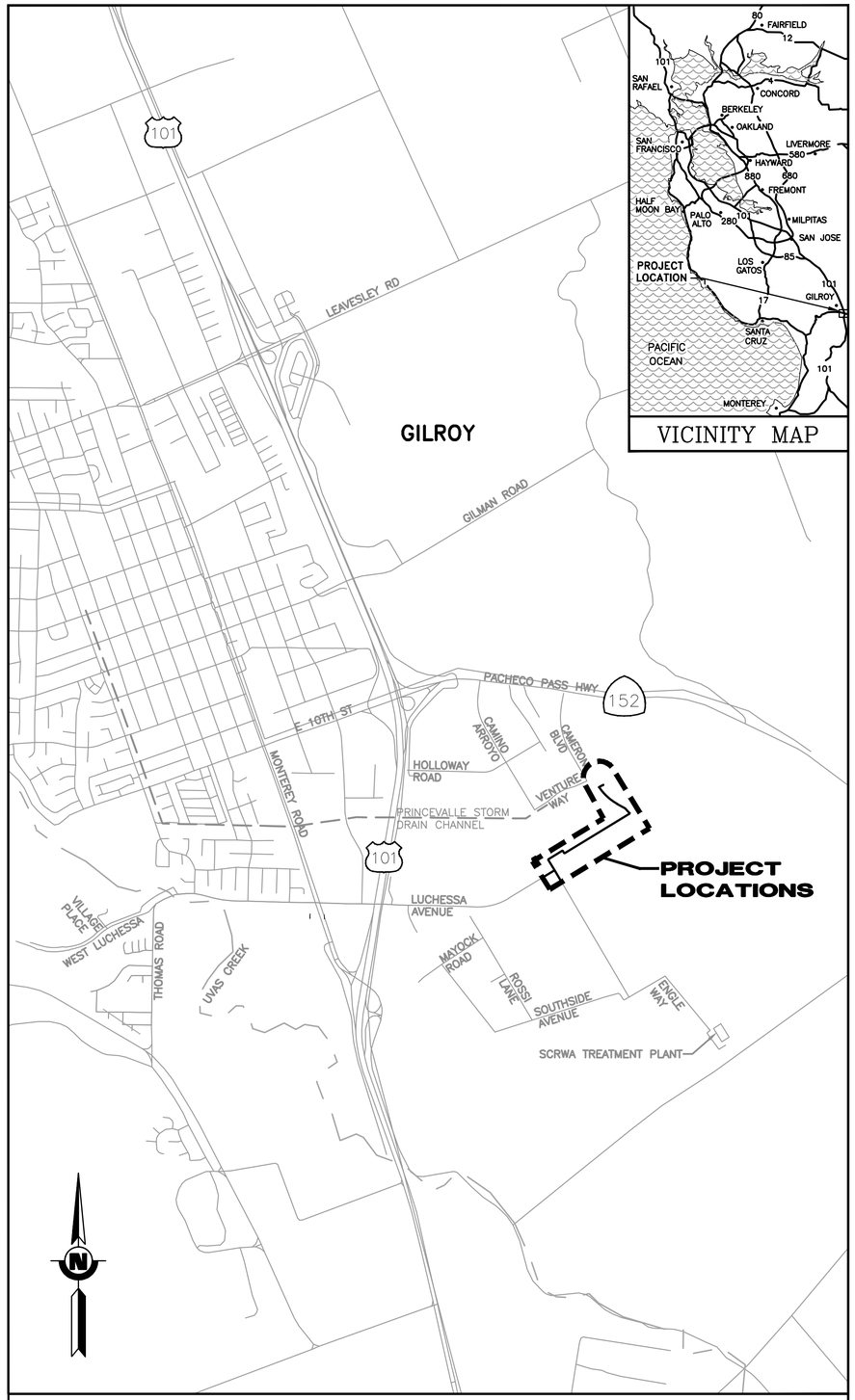

LOCATION MAP
SCALE: 1" = 1,500'

VICINITY MAP

MAP AND CONSTRUCTION PLAN

FOR

SOUTH COUNTY RECYCLED WATER PIPELINE

PHASE 1C

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PREPARED BY:

MATTHEW TAN, P.E. — DATE
SENIOR ENGINEER – PIPELINE ENGINEERING
PIPELINES PROJECT DELIVERY UNIT
WATER UTILITY CAPITAL DIVISION

REGISTERED PROFESSIONAL ENGINEER — MATTHEW TAN — No. 85537 — CIVIL — STATE OF CALIFORNIA

APPROVED BY:

JUAN RENTERIA, P.E. — DATE
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WATER UTILITY CAPITAL DIVISION

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DEPUTY OPERATING OFFICER
WATER UTILITY CAPITAL DIVISION

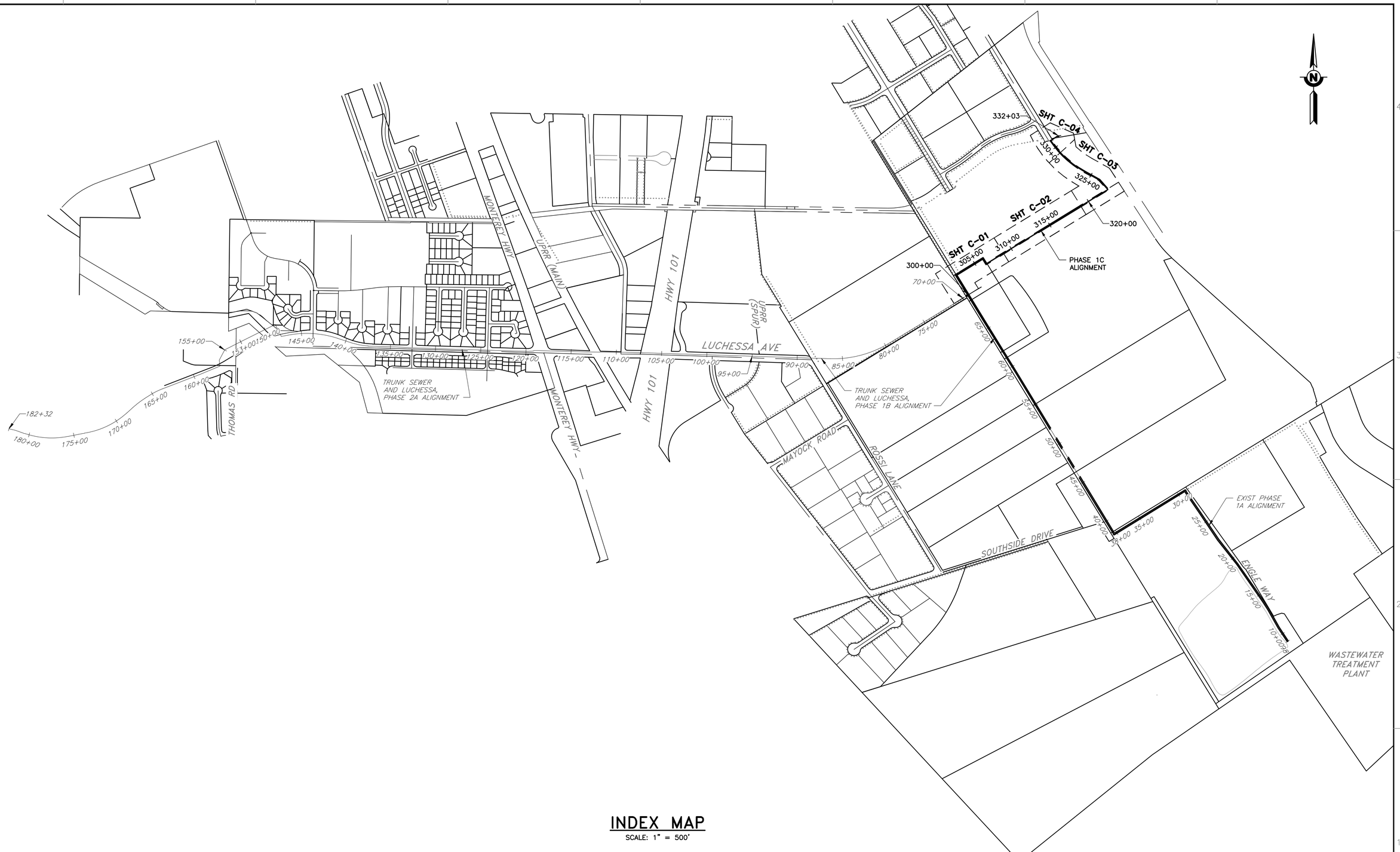
REGISTERED PROFESSIONAL ENGINEER — EMMANUEL ARYEE — No. 59383 — CIVIL — STATE OF CALIFORNIA

ACCEPTED BY:

GREG WILLIAMS, — DATE
DEPUTY OPERATING OFFICER
RAW WATER OPERATIONS & MAINTENANCE DIVISION

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

DOCUMENT NUMBER: WAE-G-9109-86755



INDEX MAP

SCALE: 1" = 500'

DOCUMENT NUMBER: WAE-G-9109-86756

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85537 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

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

PROJECT NUMBER: 91094009
SHEET CODE: G-02
SHEET NUMBER: 2

DRAWING INDEX

Sheet Title	Sheet Description	Sheet Number
	GENERAL	
G-01	LOCATION MAP AND TITLE SHEET	1
G-02	INDEX MAP	2
G-03	SHEET INDEX	3
G-04	ABBREVIATIONS, LEGENDS, AND SYMBOLS	4
G-05	GENERAL NOTES	5
G-06	SURVEY CONTROL INFORMATION	6
G-07	SURVEY CONTROL MAP	7
G-08	PHASE 1C SURVEY LAYOUT, CONTROL INFO AND ROW MAP I	8
	CIVIL	
C-01	PLAN AND PROFILE STA 300+00 TO 309+00	9
C-02	PLAN AND PROFILE STA 309+00 TO 319+00	10
C-03	PLAN AND PROFILE STA 319+00 TO 329+00	11
C-04	PLAN AND PROFILE STA 329+00 TO 332+50	12
C-05	DETAILS AND SECTION PHASE 1C CONNECTION	13
C-06	ENLARGED PLAN FOR CONNECTION TO EXIST 12" RCW PIPE	14
C-07	MISCELLANEOUS DETAILS	15
C-08	CARV VAULT AND SERVICE TURNOUT DETAILS AND SECTIONS	16
C-09	CARV VAULT DETAILS AND SECTIONS	17
C-10	TRENCH EXCAVATION AND BACKFILL	18
C-11	STANDARD DETAILS – JOINT DETAILS – STEEL PIPE	19
C-12	STANDARD DETAILS – STEEL PIPE INSTALLATION AND FABRICATION	20
C-13	STANDARD DETAILS – NOZZLE DETAILS – STEEL PIPE	21
C-14	STANDARD DETAILS – TEMPORARY OUTLET DETAILS – STEEL PIPE	22
C-15	STANDARD DETAILS – TYPICAL WELDS	23
C-16	STANDARD DETAILS – MANHOLE COVER LETTERING & PROJECT SIGNS	24
C-17	STANDARD DETAILS – MISCELLANEOUS DETAILS	25
C-18	STANDARD DETAILS – BASE SLAB FOR PRECAST VAULTS	26
C-19	STANDARD DETAILS – VAULT LADDER	27
C-20	PIPE DESIGN TABLES	28
	STRUCTURAL	
S-01	GENERAL STRUCTURAL NOTES	29
S-02	TYPICAL CAST-IN-PLACE SLAB PLAN AND SECTION	30
	CATHODIC PROTECTION	
CP-01	ABBREVIATIONS, PROJECT PHASING AND RECTIFIER INSTALLATIONS, DEEP ANODE BED SCHEMATIC, GENERAL CATHODIC PROTECTION NOTES, & TABLES	31
CP-02	CATHODIC PROTECTION DETAILS II	32
CP-03	CATHODIC PROTECTION DETAILS III	33
CP-04	CATHODIC PROTECTION DETAILS IV	34
CP-05	CATHODIC PROTECTION DETAILS V	35
CP-06	CATHODIC PROTECTION DETAILS VI	36
CP-07	CATHODIC PROTECTION DETAILS VII	37
	ELECTRICAL	
E-01	STANDARD DETAIL – SURFACE TELEMETRY CABLE PULL BOX	38
	REFERENCE	
R-01	CAMINO ARROYO AS-BUILT STA 11+00 TO 20+93	39
R-02	36" RCW AS-BUILT	40
R-03	12" RCW AS-BUILT	41
R-04	THOMAS ROAD BRIDGE AT UVAS CREEK AS-BUILT I	42
R-05	THOMAS ROAD BRIDGE AT UVAS CREEK AS-BUILT II	43

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ENGINEERING CERTIFICATION

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C

SHEET INDEX

SCALE AS SHOWN

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PROJECT NUMBER 91094009

SHEET CODE: G-03

SHEET NUMBER: 3

ABBREVIATIONS

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

LINE TYPE LEGEND

EXISTING / PROPOSED

- ℄ CABLE TELEVISION (CTV)
- ℄ ELECTRICAL LINE (E)
- ℄ ELECTRICAL & TELEPHONE LINE (E/T)
- ℄ ELECTRICAL LINE – OVERHEAD (E(OH))
- ℄ GAS LINE (G)
- ℄ IRRIGATION LINE (IR)
- ℄ PLANT DRAIN LINE (PD)
- ℄ POTABLE WATER LINE (PW)
- ℄ STORM DRAIN LINE (SD)
- ℄ SANITARY SEWER LINE (SS)
- ℄ TELEPHONE LINE (T)
- ℄ TELEPHONE LINE – OVERHEAD (T(OH))
- ℄ TRAFFIC SIGNAL LINE (TS)
- ℄ TELEMETRY LINE (TC)
- ℄ UTILITY WATER LINE (UW)
- ℄ WATER LINE (W)
- ℄ RECYCLED WATER LINE (RCW)
- ℄ BARBED WIRE FENCE LINE (X)
- ℄ CHAIN LINK FENCE LINE
- ℄ WOODEN FENCE LINE (//)
- CUT OR FILL SLOPE (TOP / TOE)
- CENTER LINE
- CENTER LINE (℄)
- GROUND
- PROPERTY–LINE / R/W–FEE
- R/W–TRACT / TCE

SYMBOLS LEGEND

DETAIL AND SECTION DESIGNATION

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

- A / C–3 — A SECTION LETTER; DRAWING ON WHICH SECTION APPEARS*
- SECTION A / C–1 TITLE, SCALE: — A SECTION LETTER; DRAWING ON WHICH SECTION WAS TAKEN*
- 1 / C–4 — A DETAIL NUMBER; DRAWING ON WHICH DETAIL APPEARS*
- DETAIL 1 / C–2 TITLE, SCALE: — A DETAIL NUMBER; DRAWING ON WHICH DETAIL WAS REFERENCED*
- ST–XXX / TYP TITLE, SCALE: — SCVWD STANDARD DETAIL NUMBER

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

EXISTING	PROPOSED
EXISTING JOINT POLE (JP)	PROPOSED JOINT POLE (JP)
EXISTING POWER POLE (PP)	PROPOSED POWER POLE (PP)
EXISTING TELEPHONE POLE (TP)	PROPOSED TELEPHONE POLE (TP)
EXISTING ELECTRICAL MANHOLE (E, EM)	PROPOSED ELECTRICAL MANHOLE (E, EM)
EXISTING ELECTRIC METER	PROPOSED ELECTRIC METER
EXISTING STORM DRAIN MANHOLE (SD)	PROPOSED STORM DRAIN MANHOLE (SD)
EXISTING CATCH BASIN / SD INLET (CB)	PROPOSED CATCH BASIN / SD INLET (CB)
EXISTING SANITARY CLEANOUT (CO)	PROPOSED SANITARY CLEANOUT (CO)
EXISTING SANITARY MANHOLE (SS)	PROPOSED SANITARY MANHOLE (SS)
EXISTING TELEPHONE MANHOLE (T)	PROPOSED TELEPHONE MANHOLE (T)
EXISTING WATER VALVE	PROPOSED WATER VALVE
EXISTING WATER METER (W)	PROPOSED WATER METER (WM)
EXISTING BLOWOFF	PROPOSED BLOWOFF
EXISTING GAS VALVE (GV)	PROPOSED GAS VALVE (GV)
EXISTING GAS METER (GM)	PROPOSED GAS METER (GM)
	PROPOSED BURIED NOZZLE (W)
EXISTING DEEP ANODE BED (A)	PROPOSED DEEP ANODE BED (A)
EXISTING REFERENCE ELECTRODE TEST STATION (R)	PROPOSED REFERENCE ELECTRODE TEST STATION (R)
EXISTING INSULATION JOINT (IJ)	PROPOSED INSULATION JOINT (IJ)
EXISTING PRECAST VAULT (PV)	PROPOSED PRECAST VAULT (PV)
EXISTING TELEMETRY CABLE PULLBOX (T)	PROPOSED TELEMETRY CABLE PULLBOX (T)
EXISTING VENTILATION STRUCTURE (V)	PROPOSED VENTILATION STRUCTURE (V)
EXISTING TREE	EXISTING TREE TO BE REMOVED
EXISTING AIR RELEASE VALVE (V)	PROPOSED COMBINATION AIR RELEASE VALVE, IN PLAN (V)
	PROPOSED COMBINATION AIR RELEASE VALVE IN MANHOLE, IN PROFILE VIEW

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION — REGISTERED PROFESSIONAL ENGINEER, MATTHEW TAN, No. 85837, CIVIL, STATE OF CALIFORNIA — ENGINEER / DATE

SANTA CLARA VALLEY WATER DISTRICT — Valley Water

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

DOCUMENT NUMBER: WAE–G–9109–86758

USERNAME: TungTran 7/11/2025 5:08 PM FILENAME: K:\Active Projects\MP-91094009\SCRWP\SHEETS\REBID\SET 1\G-04.dwg

GENERAL NOTES

1. GENERAL NOTES APPLY TO ALL DRAWINGS.
2. THE DESIGN HYDRAULIC GRADE LINE IS AT ELEVATION: 515 FEET.
3. THE CONTRACTOR SHALL HAVE, AND COMPLY WITH, ALL REQUIRED PERMITS PRIOR TO BEGINNING ANY CONSTRUCTION WORK.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL FEDERAL, STATE, AND LOCAL CODES, APPLICABLE PERMITS, AND OSHA STANDARDS.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. SEE SHEETS G-06 AND G-07 FOR SURVEY DATA AND HORIZONTAL AND VERTICAL CONTROL INFORMATION.
11. ALL EXISTING GROUND ELEVATIONS ARE APPROXIMATE ONLY AND MUST BE FIELD VERIFIED BY THE CONTRACTOR.
12. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN TO THE CITY OF GILROY AND ENGINEER FOR REVIEW AND APPROVAL.
13. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING GRADING. LOW SPOTS CREATED FROM CONSTRUCTION MUST BE GRADED TO DRAIN TO EXISTING DRAINAGE AREA.
14. UNLESS INDICATED OTHERWISE, ALL ELEVATIONS SHOWN AT GRADE BREAKS AND MATCH LINES REFER TO TOP OF PIPE.
15. UNLESS INDICATED OTHERWISE, ALL HORIZONTAL AND VERTICAL DISTANCES ARE IN FEET AND/OR DECIMALS OF A FOOT.
16. 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.
17. NOT ALL SERVICE LATERALS, WHICH MAY INTERFERE WITH THE PROJECT, ARE SHOWN ON THE DRAWINGS.
18. CONTRACTOR SHALL INVESTIGATE THE SITE AND BE AWARE OF ANY POSSIBLE LIMITED OVERHEAD CLEARANCES.
19. 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.
20. THE CONTRACTOR SHALL PROVIDE PRE-CONSTRUCTION STRUCTURAL SURVEYS OF ALL ADJACENT RESIDENCES, INCLUDING MOBILE HOMES, AS REQUIRED IN SPECIFICATIONS. SEE ARTICLE 16.04.
21. PER ARTICLE 23.04, THE CONTRACTOR SHALL PERFORM ALL WORK REQUIRED FOR DISCHARGING TEST WATER.
22. 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.
23. 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.
24. 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.
25. CONTRACTOR SHALL FIELD-VERIFY ALL DIMENSIONS FOR ALL NEW INSTALLATIONS AND NOTIFY THE ENGINEER OF ALL DISCREPANCIES.
26. CONTRACTOR SHALL REFER TO ARTICLE 13.05 FOR CONTRACTOR'S ENGINEERING AND DESIGN.

PIPELINE PHASE STATION RANGES

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

GENERAL NOTES – PIPE

1. UNLESS OTHERWISE SHOWN IN THE DRAWINGS, ALL FLANGES ARE AWWA CLASS E.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. IN NEW PIPELINE CROSSINGS BELOW SANITARY SEWER, JOINTS SHALL NOT BE WITHIN 8 FEET OF CROSSING.

CORROSION CONTROL NOTES

1. RECYCLED WATER PIPELINE SHALL BE BONDED TO THE EXISTING AND NEW RECYCLED WATER PIPELINE REACHES FOR CATHODIC PROTECTION.
2. CORROSION TEST STATIONS SHALL BE INSTALLED AT ALL VAULTED APPURTENANCES, CASING TERMINATIONS AND INSULATING JOINT LOCATIONS.
3. 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.
4. AFTER COMPLETION, THE SYSTEM SHALL BE TESTED OR ENERGIZED AND TESTED UNDER THE SUPERVISION OF THE ENGINEER.
5. ALL BURIED MECHANICAL PIPE JOINTS SHALL ADHERE TO SHEET CP-02, DET 7.

WWTP HAUL ROUTE/STAGING NOTES:

1. 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.
2. CONTRACTOR SHALL COORDINATE ACTIVITIES SUCH THAT SCRWA FACILITY OPERATIONS ARE NOT IMPACTED.
3. CONTRACTOR SHALL NOT IMPEDE ACCESS TO SCRWA FACILITY FROM ENGLE WAY AND SOUTHSIDE DRIVE.
4. ACCESS ROADS WITHIN JOB SITE
   - 4.1. 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.
   - 4.2. 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.
   - 4.3. 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.
   - 4.4. 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.
   - 4.5. 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.
5. 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.
6. 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:
   - 6.1. PROVIDE NECESSARY EQUIPMENT AND PERSONNEL TO UNLOAD ALL ITEMS DELIVERED TO THE SITE.
   - 6.2. 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.
7. 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.
8. 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.

DOCUMENT NUMBER: WAE-G-9109-86759

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85537 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

SCALE: AS SHOWN
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
PROJECT NUMBER: 91094009
SHEET CODE: G-05
SHEET NUMBER: 5

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

DOCUMENT NUMBER: WAE-G-9109-86760

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85837 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

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-06
SHEET NUMBER: 6

DOCUMENT NUMBER: WAE-G-9109-86761

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85537 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

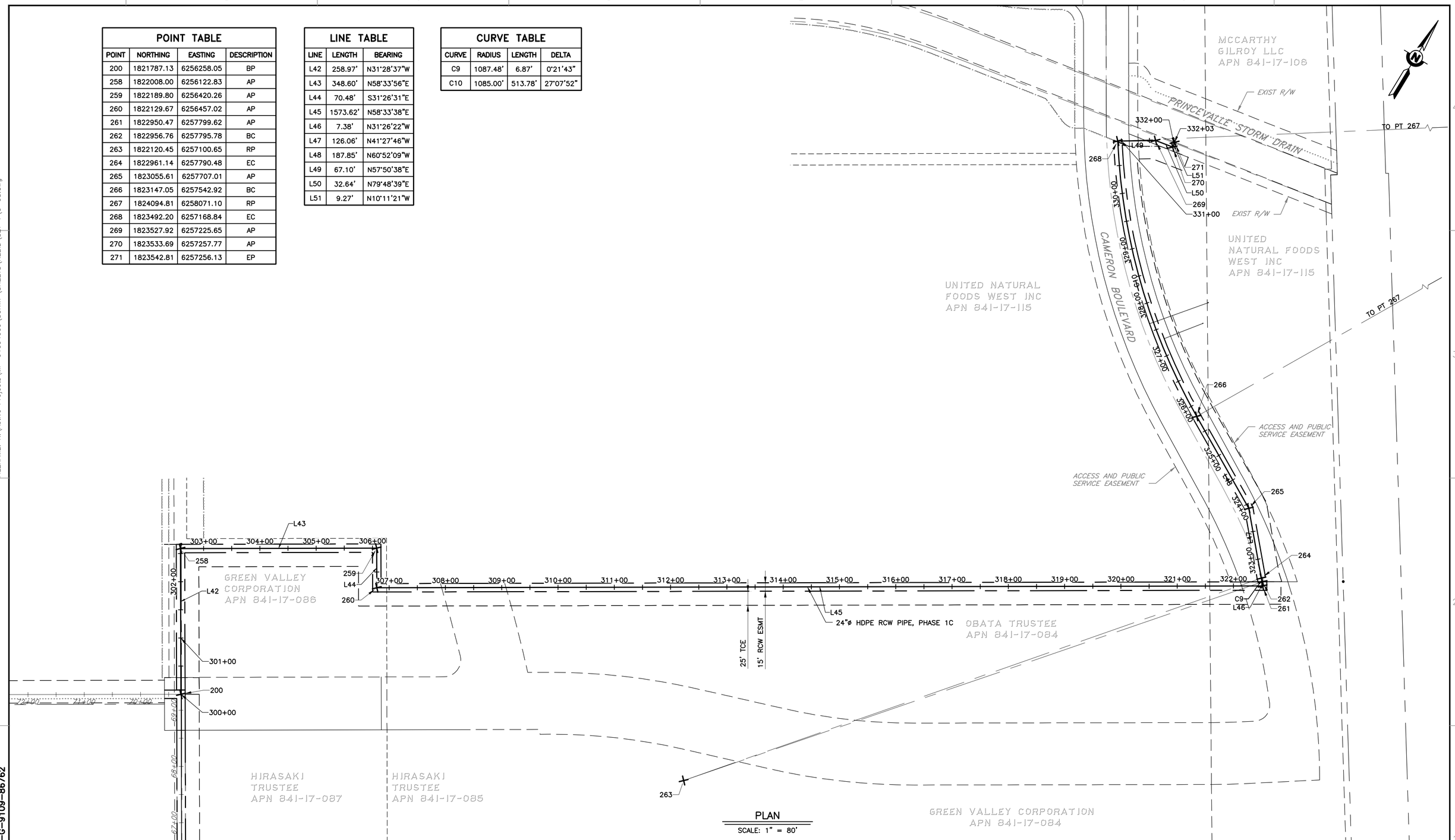
SCALE 1" = 500'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 91094009
SHEET CODE: G-07
SHEET NUMBER: 7

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'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: WAE-G-9109-86762

USERNAME: TungTran 7/11/2025 4:09 PM
FILENAME: K:\Active Projects\MP-91094009\SCRWP\SHEETS\REBID\SET 1\G-08.dwg

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — MATTHEW T. TAN — No. 85537 — CIVIL — STATE OF CALIFORNIA

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C

PHASE 1C SURVEY LAYOUT, CONTROL INFO AND ROW MAP I

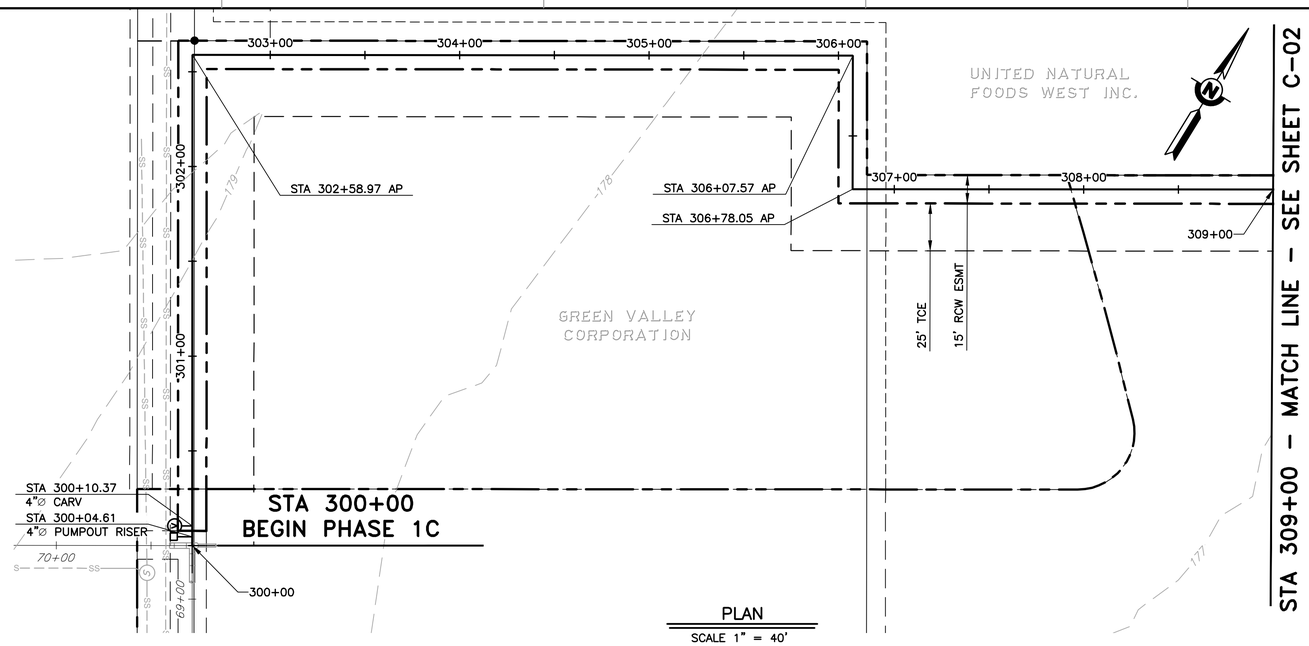
SCALE: AS SHOWN

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

PROJECT NUMBER: 91094009

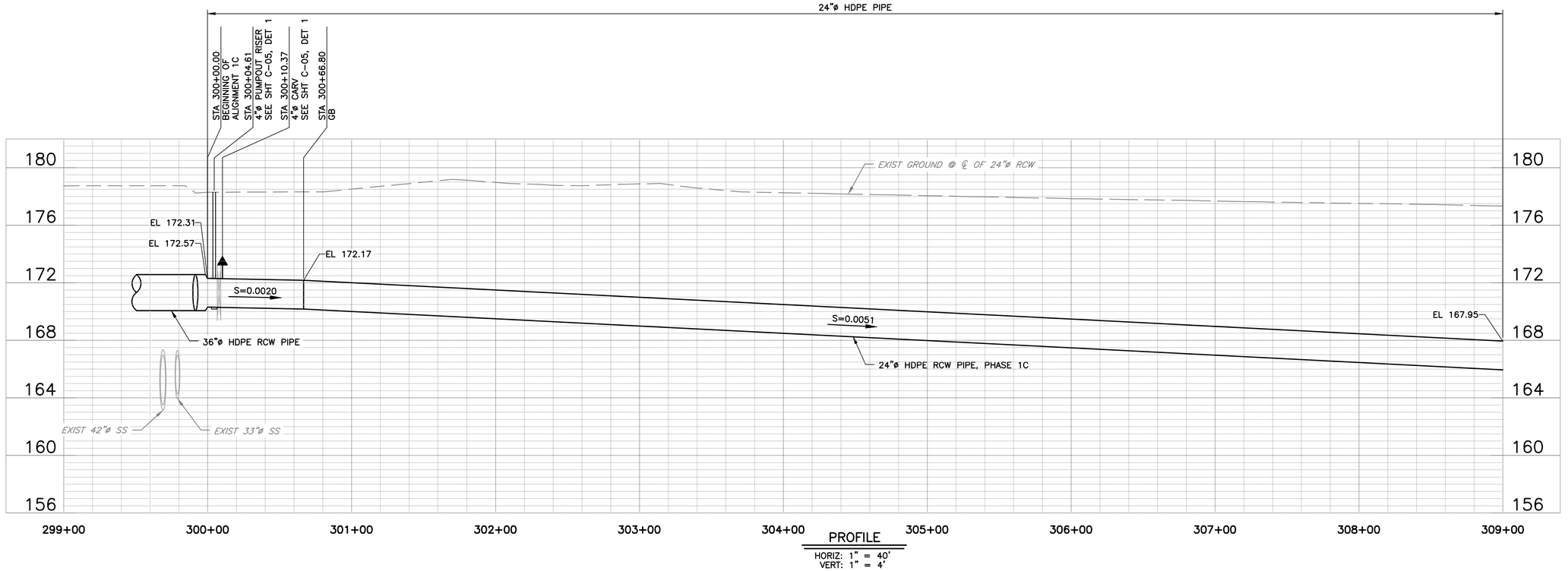
SHEET CODE: G-08

SHEET NUMBER: 8



PLAN

SCALE 1" = 40'



PROFILE

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

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85857 CIVIL STATE OF CALIFORNIA

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

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

DOCUMENT NUMBER: WAE-C-9109-86763

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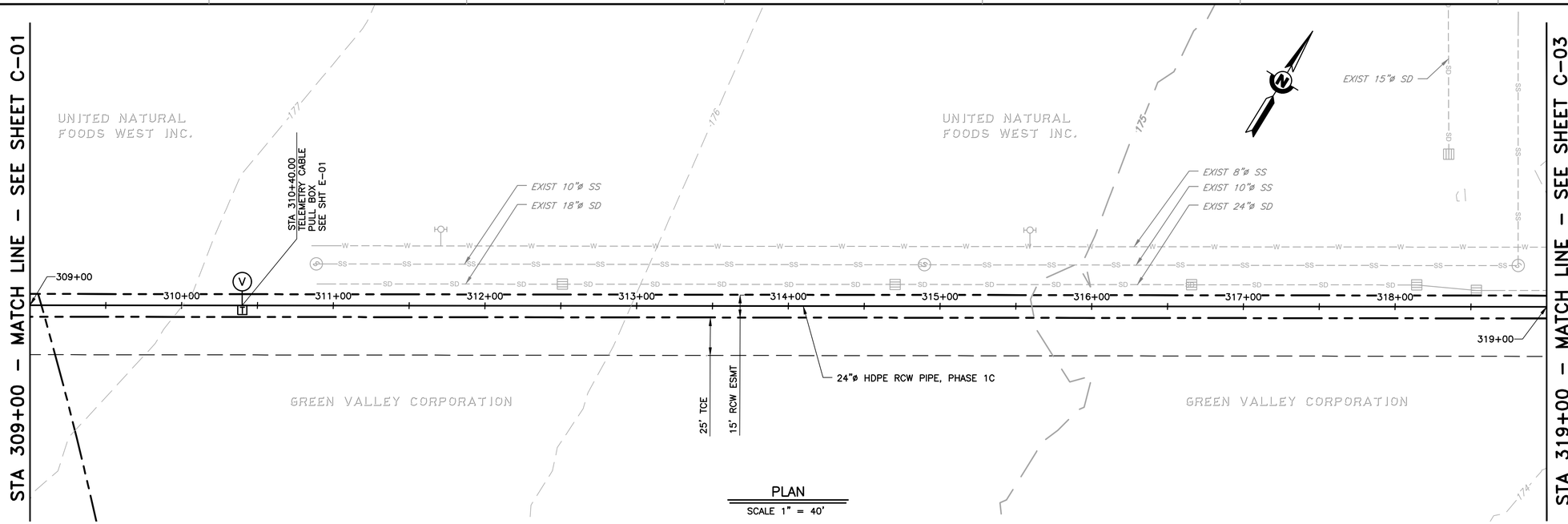
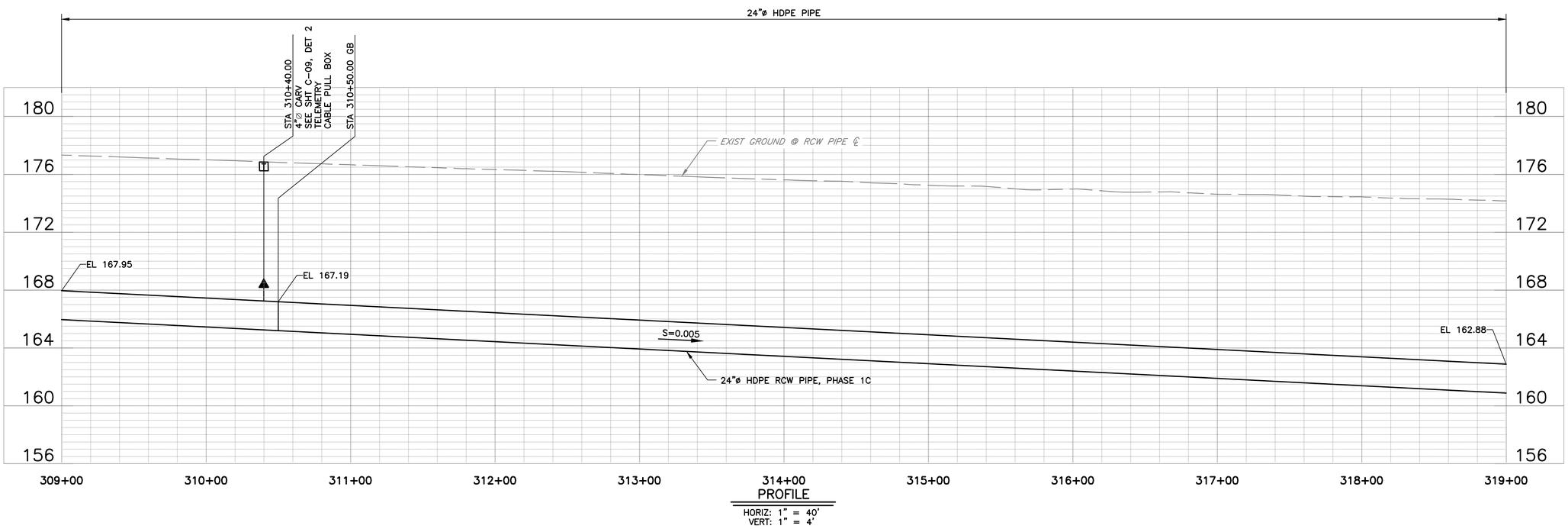
FILENAME: K:\Active Projects\MP-91094009\SCRWP\SHEETS\REBID\SET 1\C-01.dwg

STA 309+00 – MATCH LINE – SEE SHEET C-01

STA 319+00 – MATCH LINE – SEE SHEET C-03



PLAN
SCALE 1" = 40'



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

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: WAE-C-9109-86764

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85857 CIVIL STATE OF CALIFORNIA

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C

PLAN AND PROFILE STA 309+00 TO 319+00

SCALE AS SHOWN

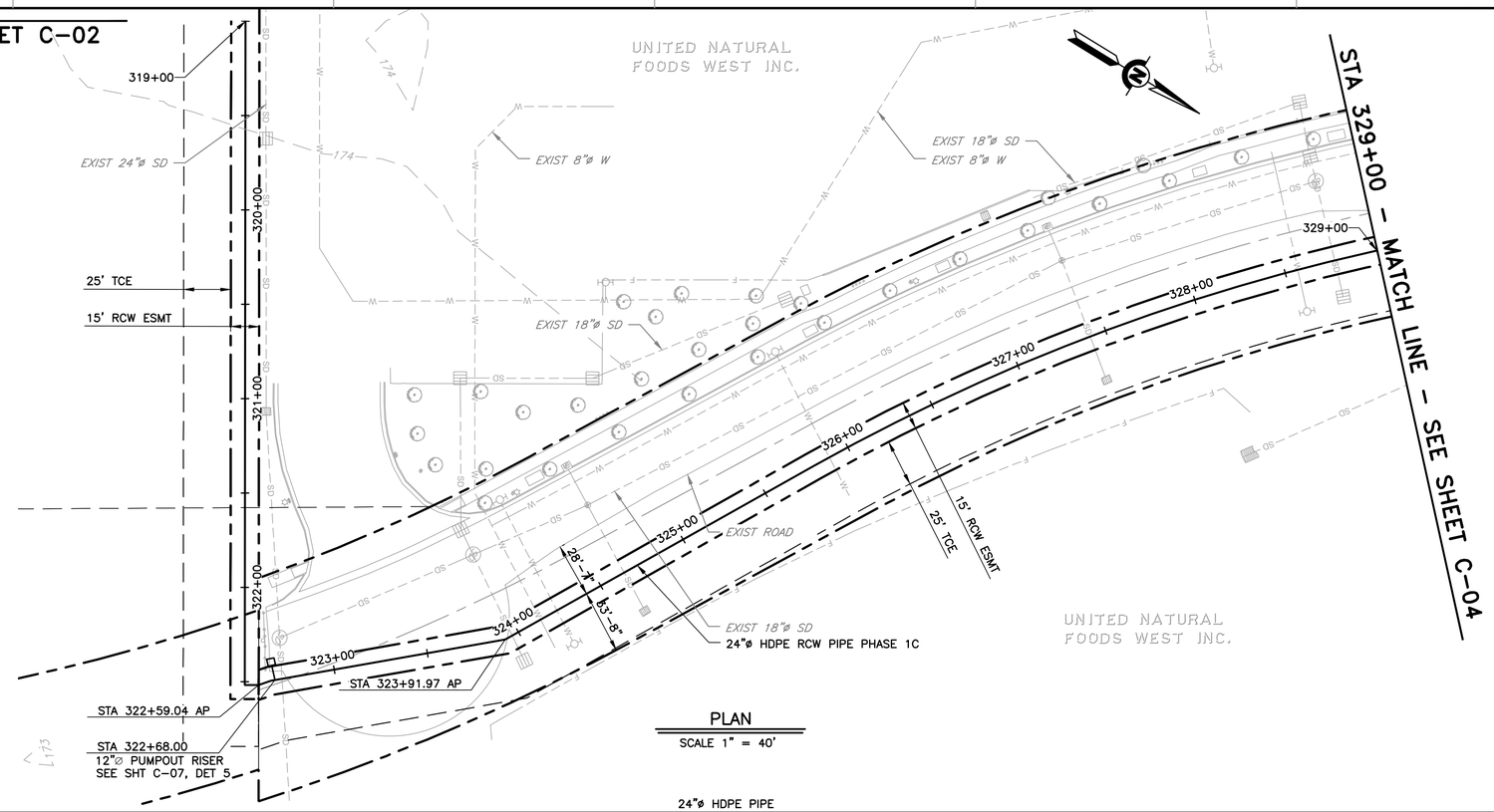
VERIFY SCALES
0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 91094009

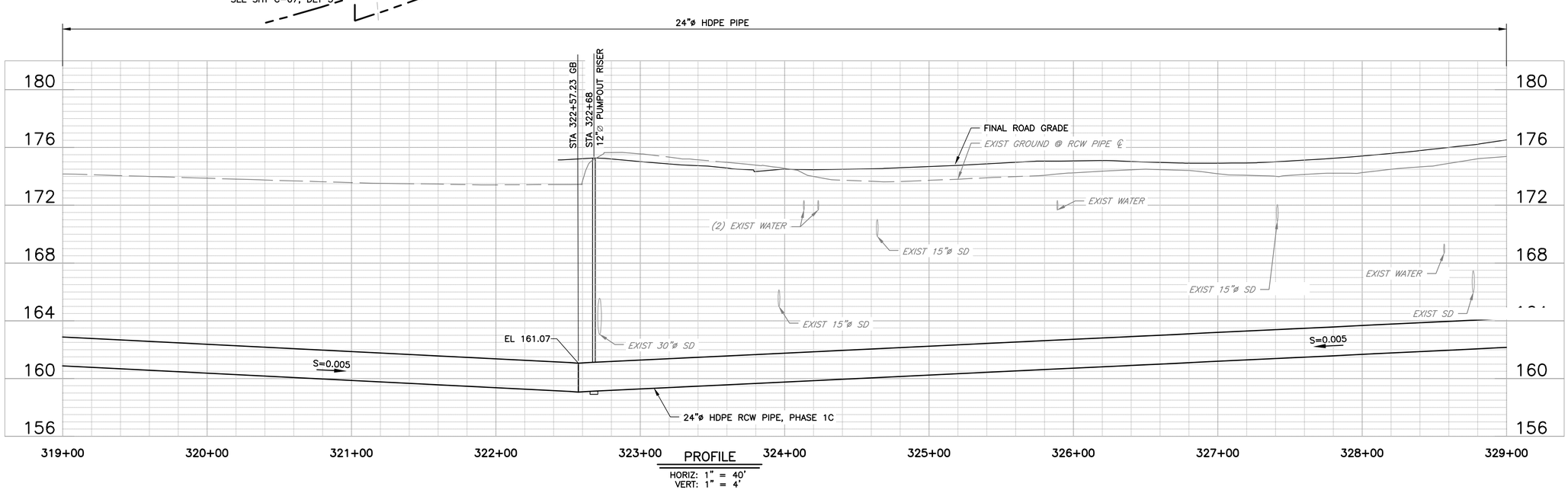
SHEET CODE: C-02

SHEET NUMBER: 10

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



PLAN
SCALE 1" = 40'



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

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: WAE-C-9109-86765

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER – MATTHEW TAN – No. 85557 – CIVIL – STATE OF CALIFORNIA

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

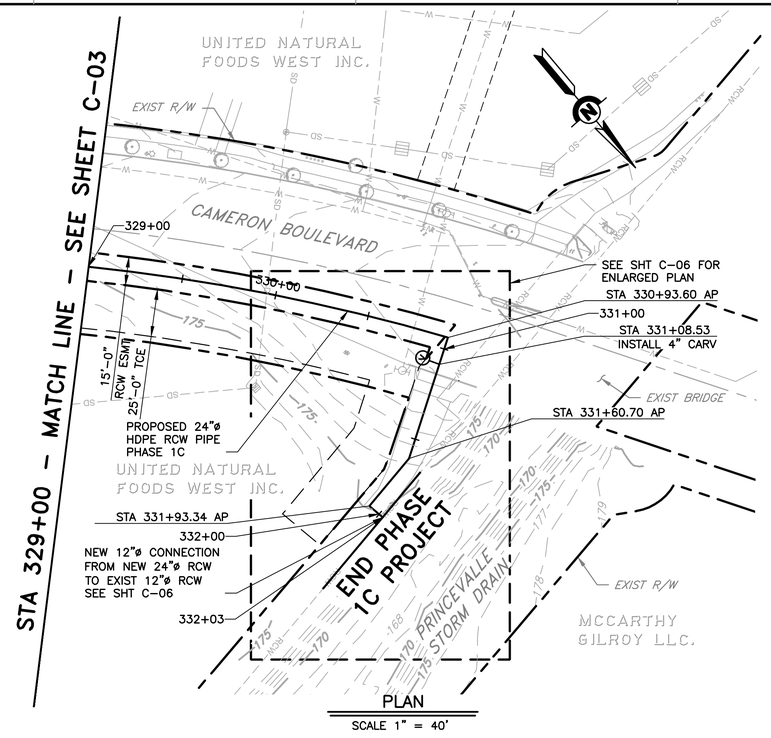
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C

PLAN AND PROFILE STA 319+00 TO 329+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-03
SHEET NUMBER:	11



REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85557 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

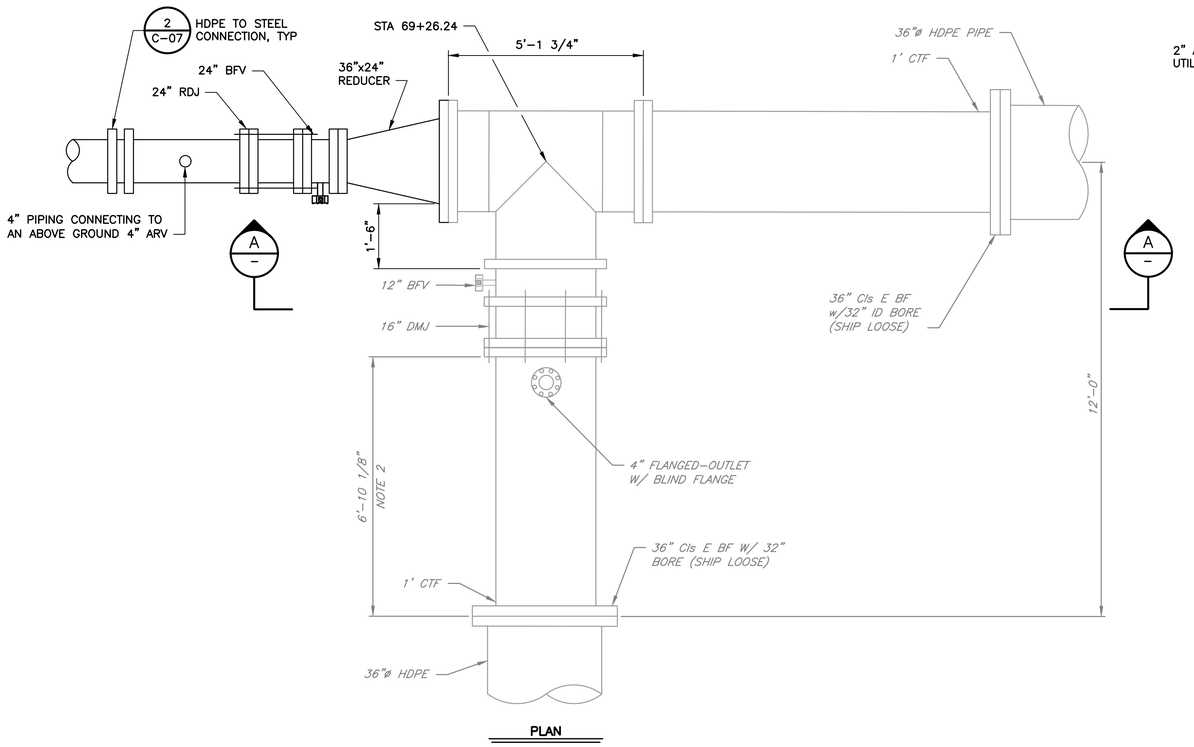
SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
PLAN AND PROFILE STA 329+00 TO 332+50

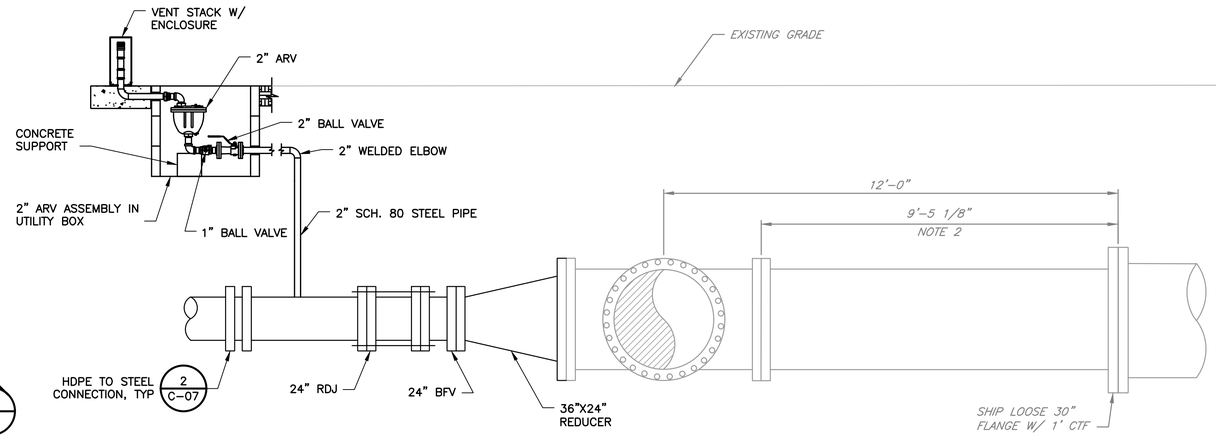
SCALE AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 91094009
SHEET CODE: C-04
SHEET NUMBER: 12

DOCUMENT NUMBER: WAE-C-9109-86766



PLAN



SECTION A/– PHASE 1C CONNECTION

SCALE: NTS

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

DOCUMENT NUMBER: WAE-C-9109-86767

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85537 CIVIL STATE OF CALIFORNIA

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C

DETAILS AND SECTION PHASE 1C CONNECTION

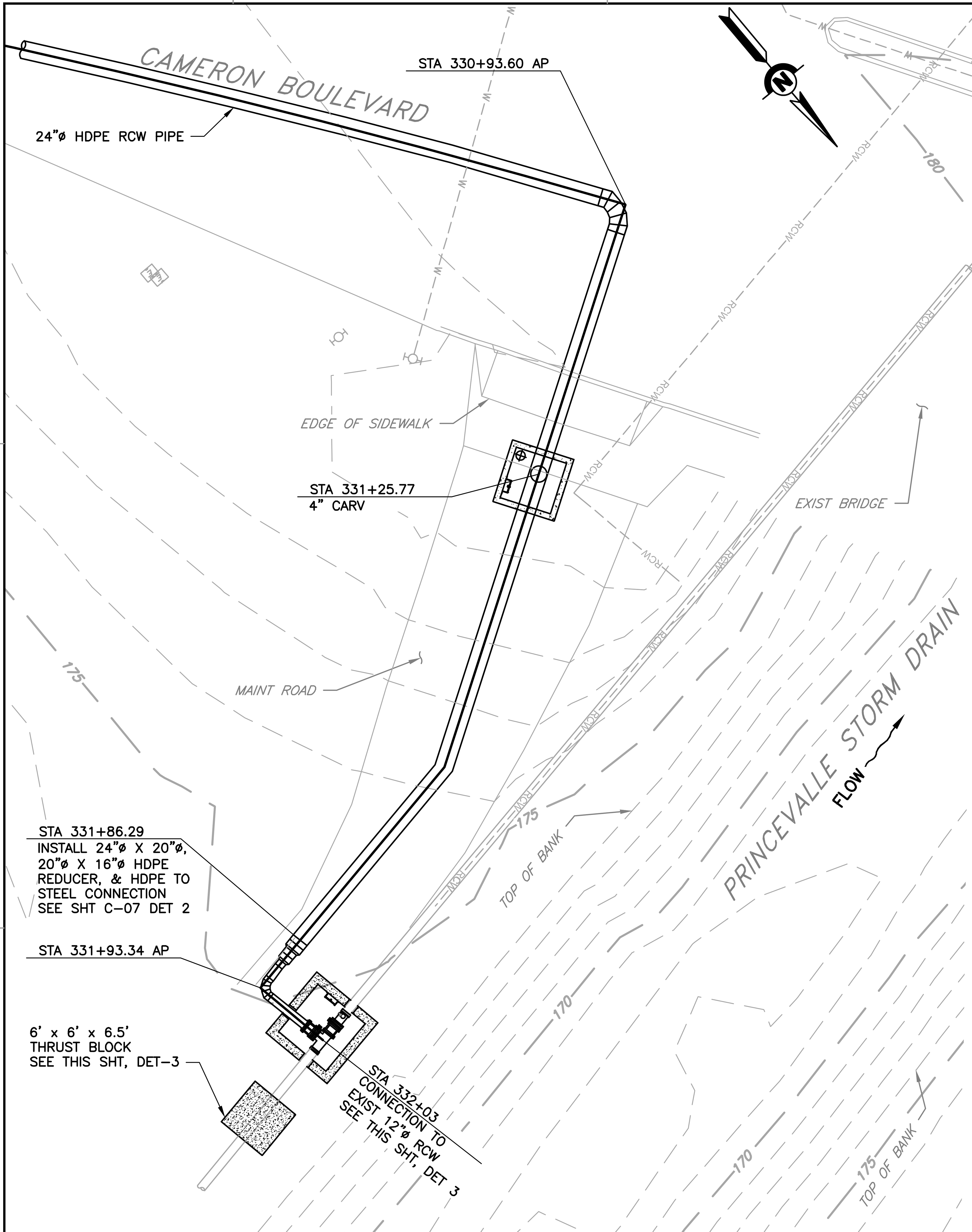
SCALE: AS SHOWN

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

PROJECT NUMBER: 91094009

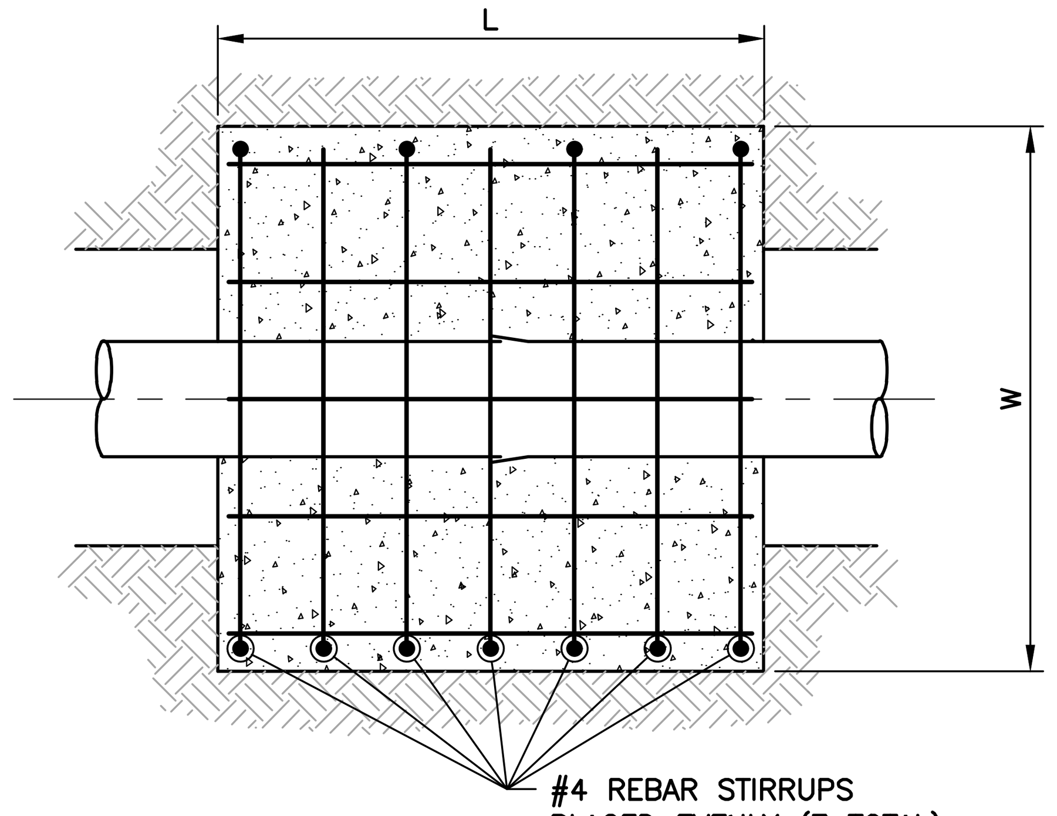
SHEET CODE: C-05

SHEET NUMBER: 13

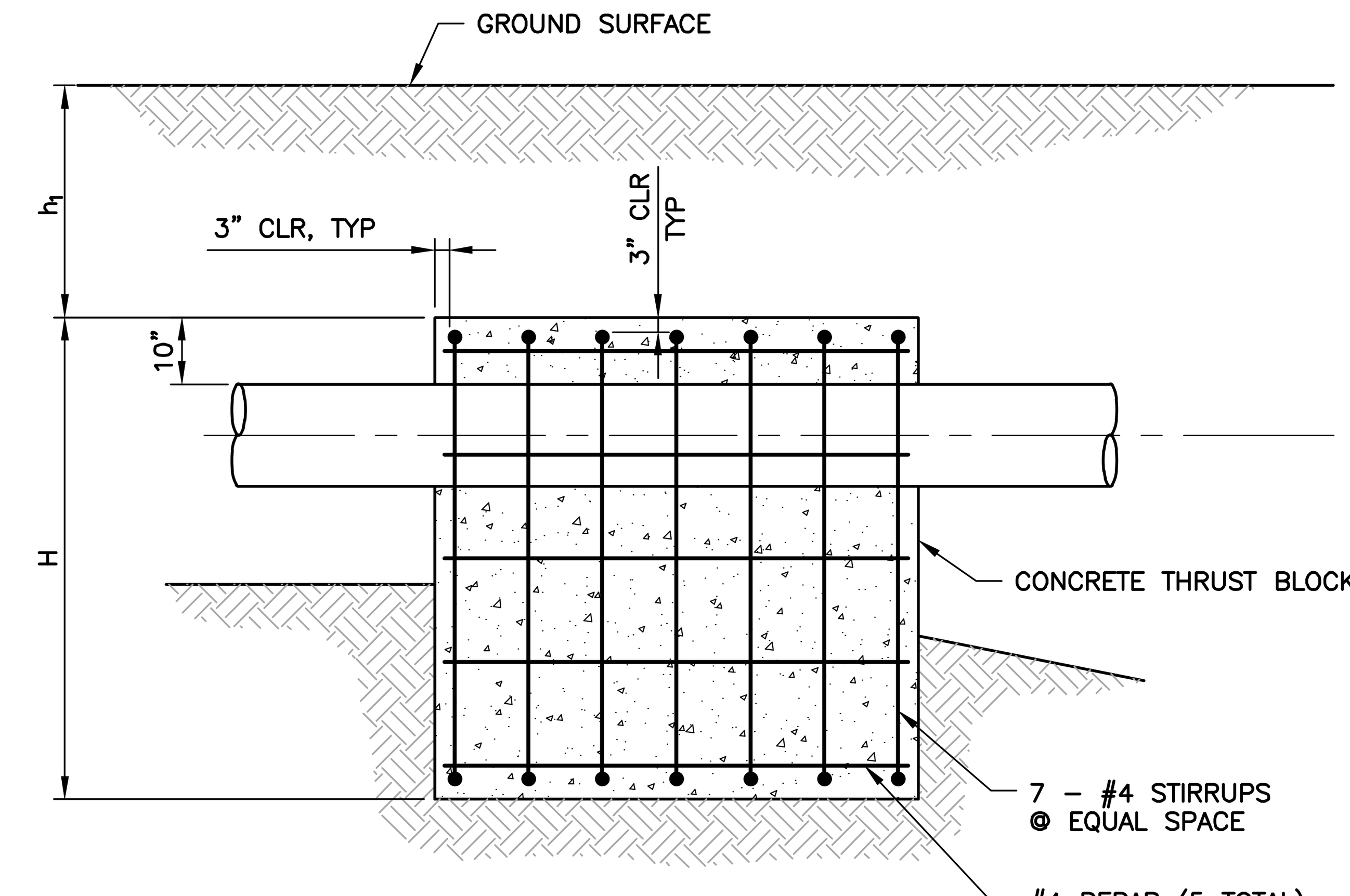


PLAN

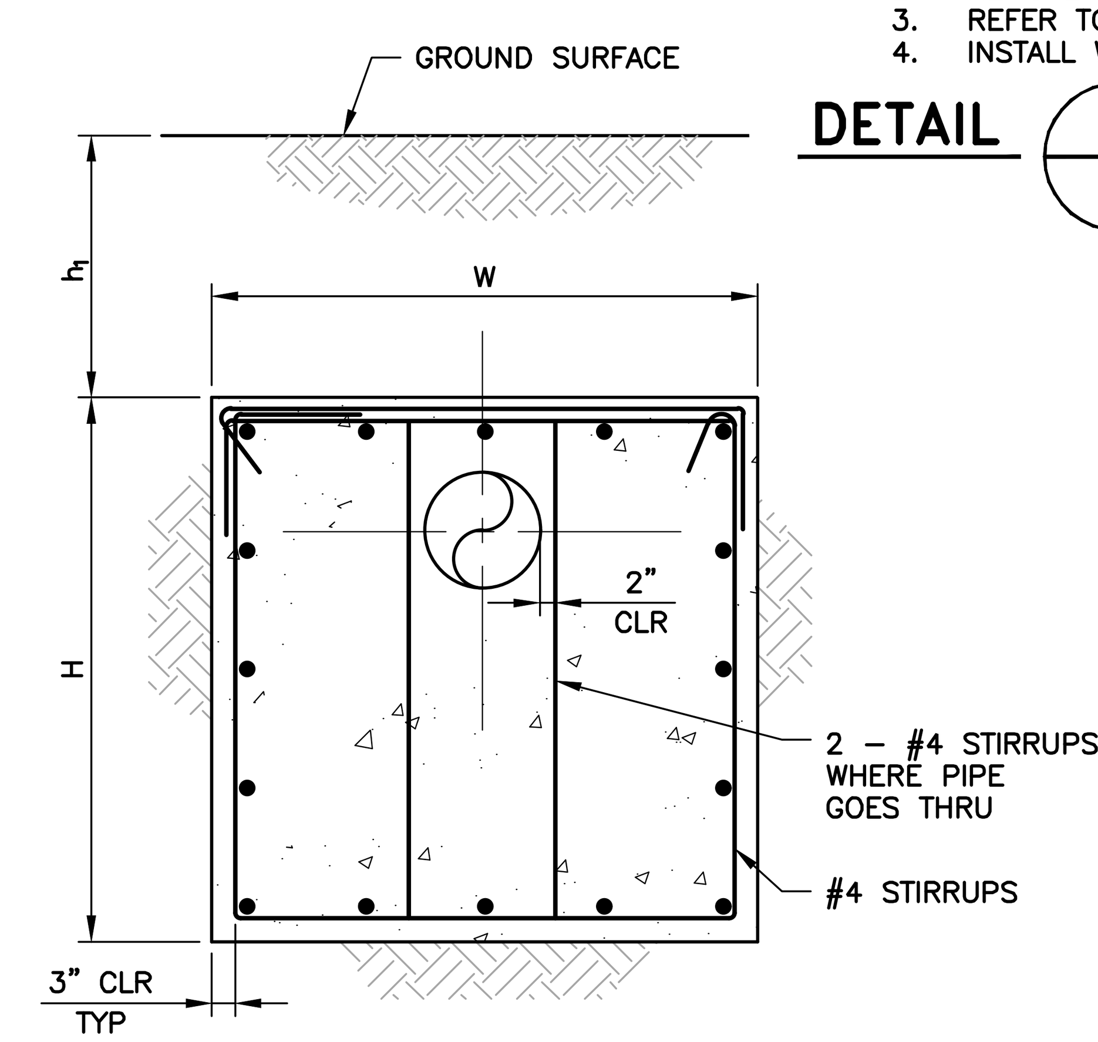
SCALE 1" = 10'



PLAN



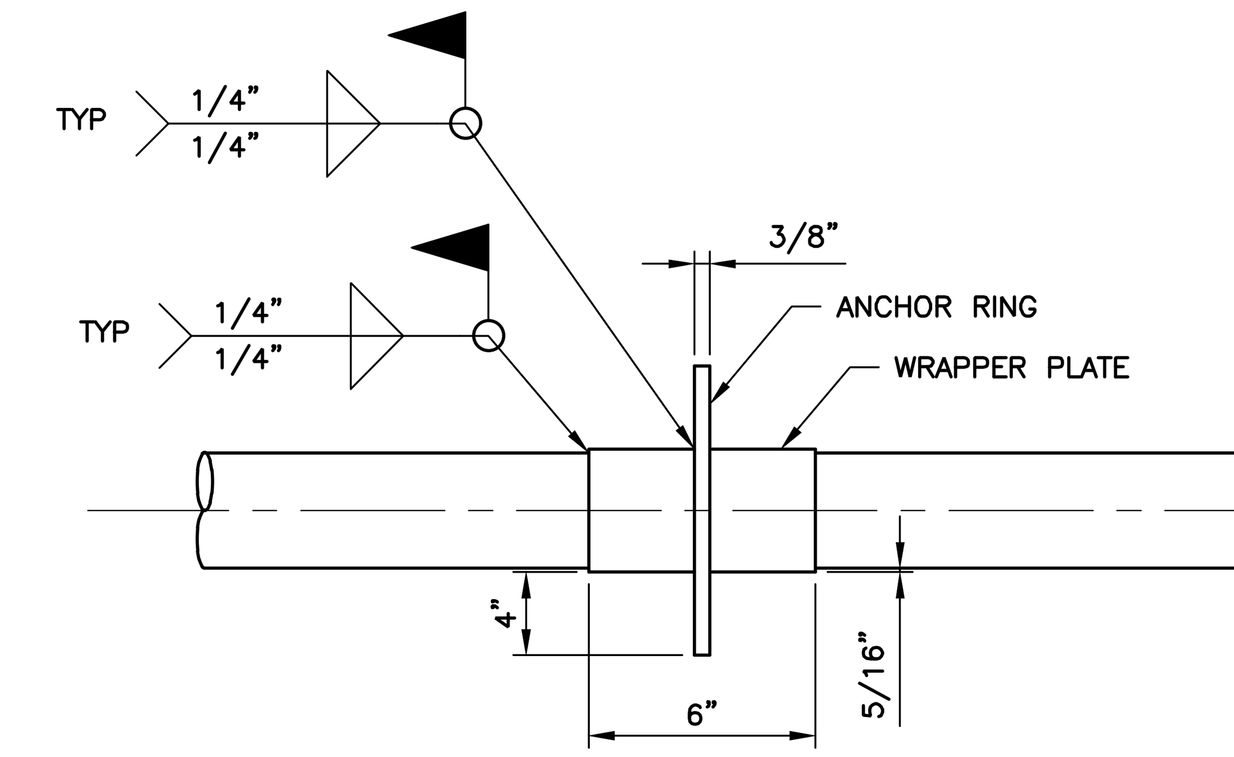
FRONT ELEVATION



RIGHT ELEVATION

DETAIL 1 / – CONCRETE THRUST BLOCK

SCALE: 1" = 10'



NOTES:

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

DETAIL 2 / – ANCHOR RING FOR EXISTING 12" WSP MAIN LINE

SCALE: NTS

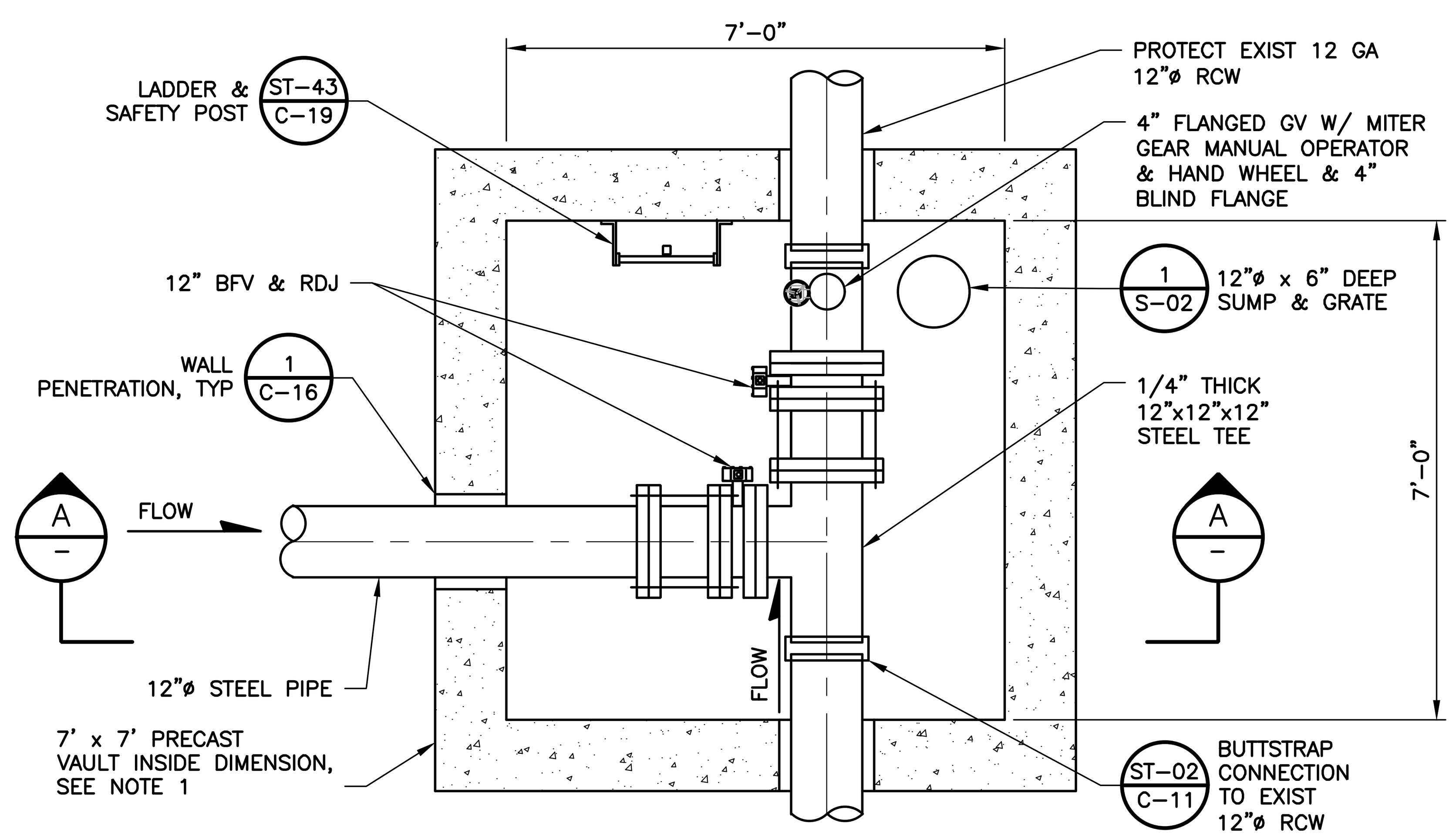
THRUST BLOCK DIMENSIONS (FT)

PIPE SIZE (INCHES)	h_1 (SEE NOTE BELOW)	H	W	L
12"	–	6	6.5	6

FOR h_1, REFER TO SHT C-04

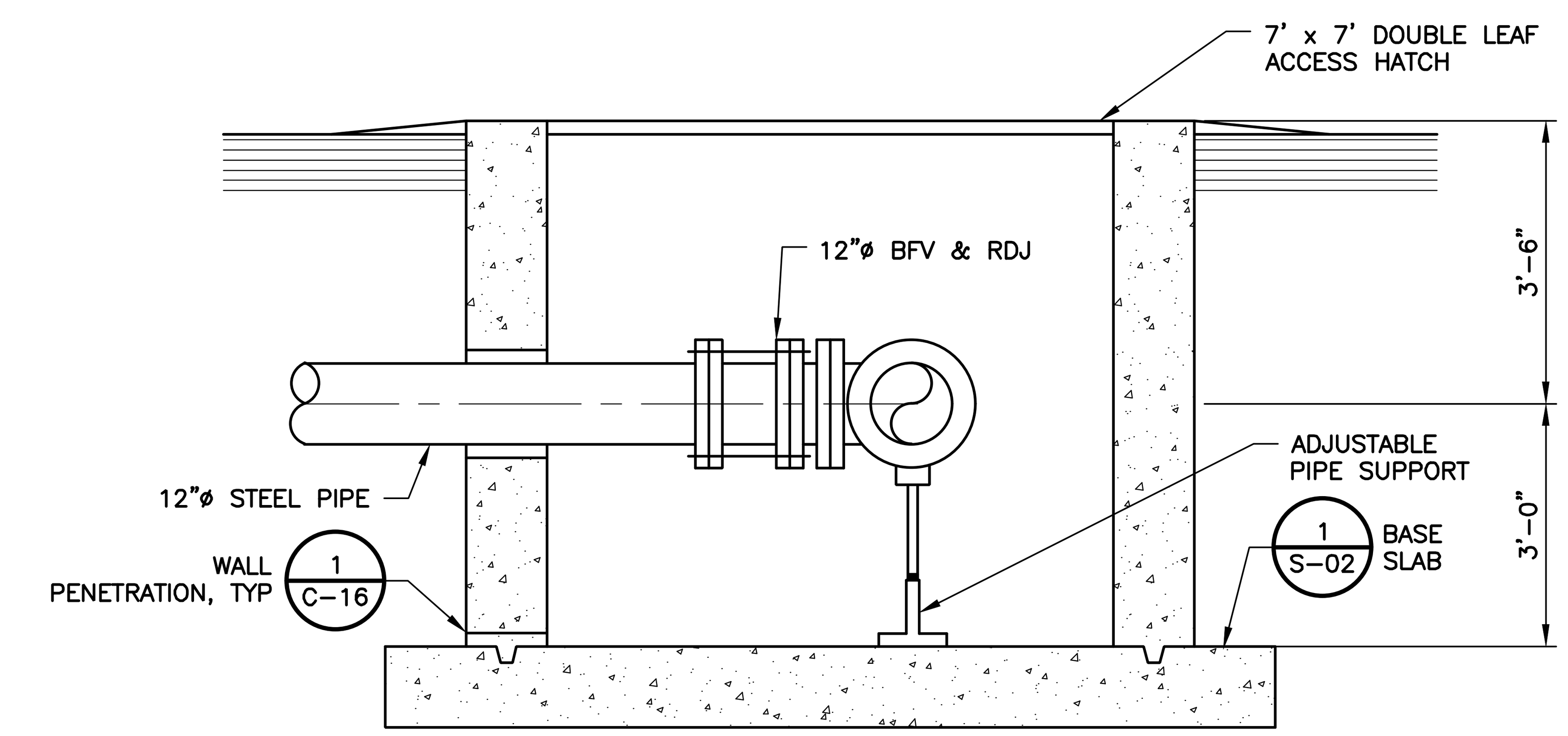
NOTE:

1. 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

1. SEE SHEET R-03 FOR 12"ø RCW AS-BUILT.
2. 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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85537 CIVIL STATE OF CALIFORNIA

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

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

DOCUMENT NUMBER: WAE-C-9109-86768

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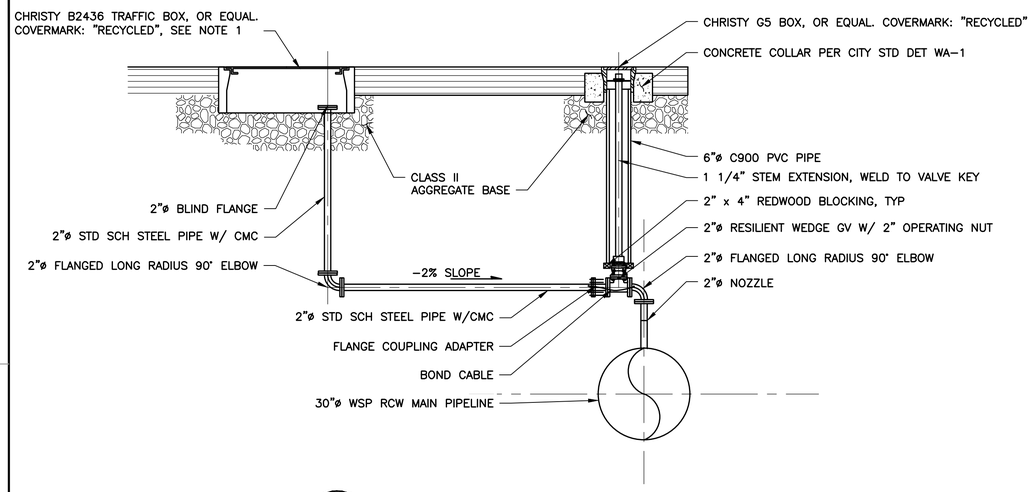
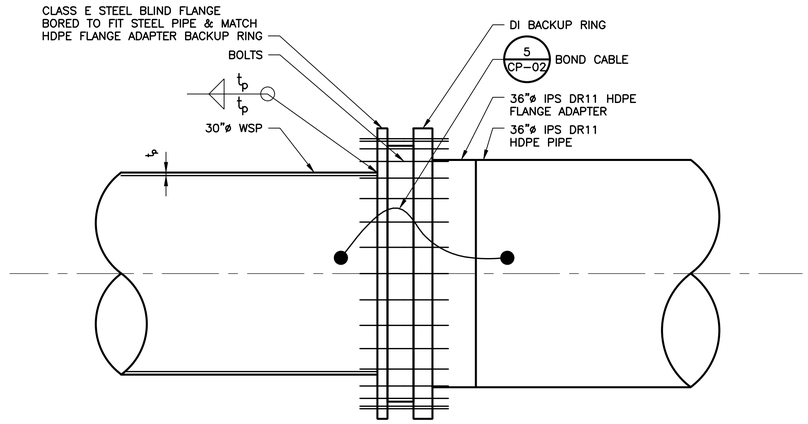
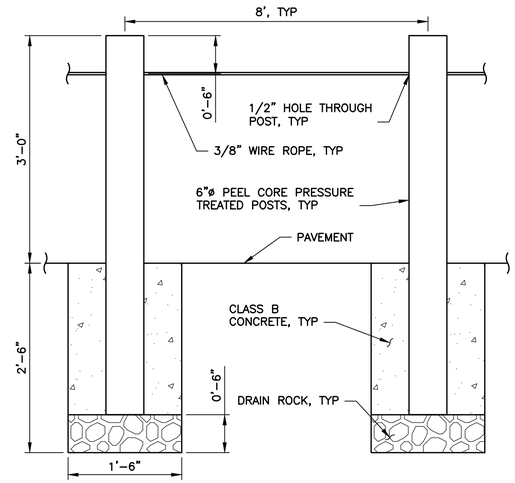


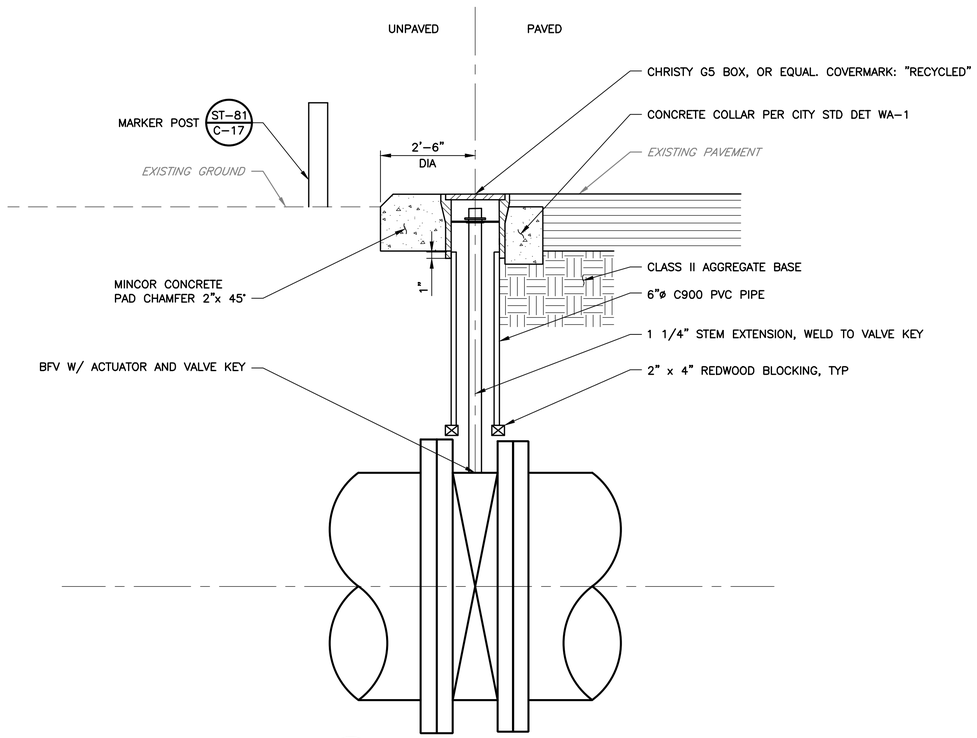
DETAIL 1/– 2" RECYCLED WATER TURNOUT ASSEMBLY
SCALE: NTS



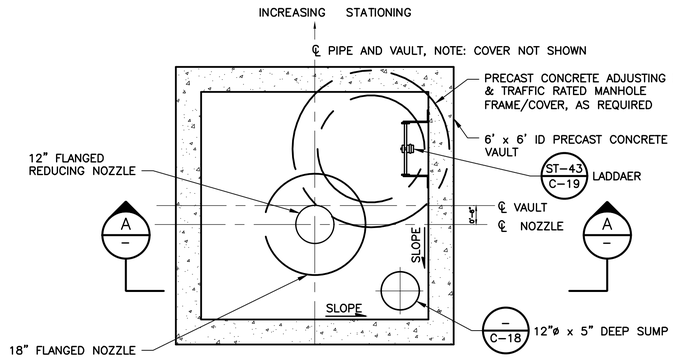
DETAIL 2/C-05 HDPE TO STEEL CONNECTION
C-06
SCALE: NTS



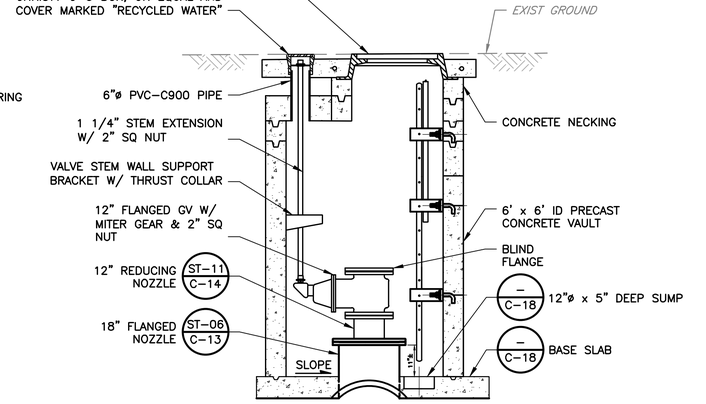
DETAIL 3/– WOOD POST & CABLE
SCALE: NTS



DETAIL 4/C-08 STEM EXTENSION
C-09
SCALE: NTS



DETAIL 5/C-03 TRAFFIC RATED PUMP OUT RISER
SCALE: NTS



SECTION A/– TRAFFIC RATED PUMP OUT RISER
SCALE: NTS

DOCUMENT NUMBER: WAE-C-9109-86769

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES
1. TRAFFIC BOXES AND STUBOUT SHALL BE PLACED IN THE CENTER MEDIAN ISLANDS WHEN POSSIBLE.

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

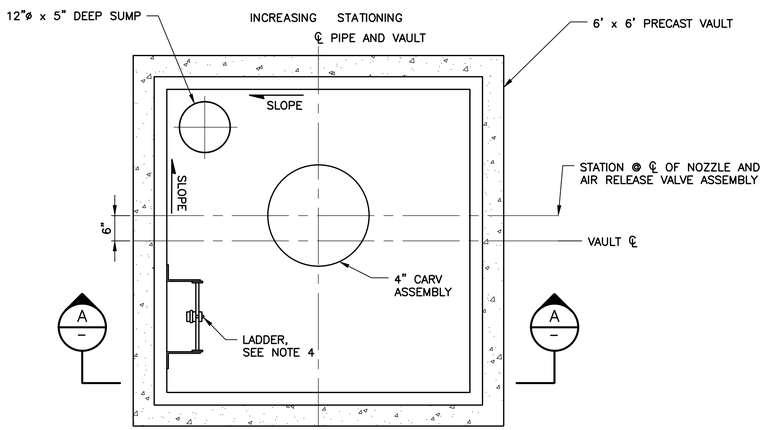
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW T. AN No. 85537 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

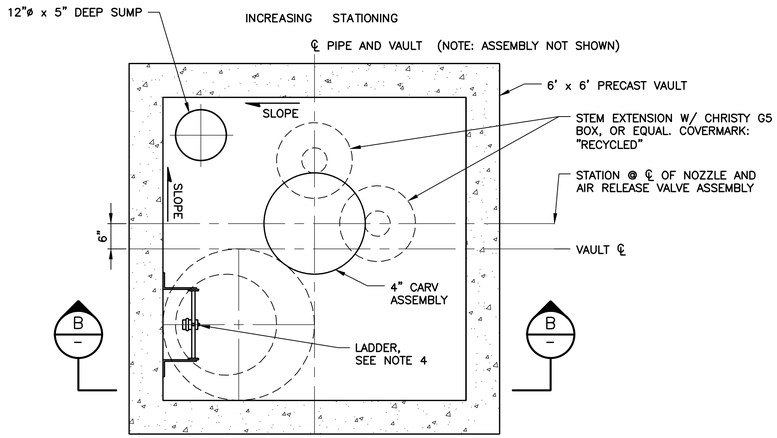
SCALE AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 91094009
SHEET CODE: C-07
SHEET NUMBER: 15



DETAIL 1/– CARV IN RAISED VAULT AND SERVICE TURNOUT

SCALE: NTS

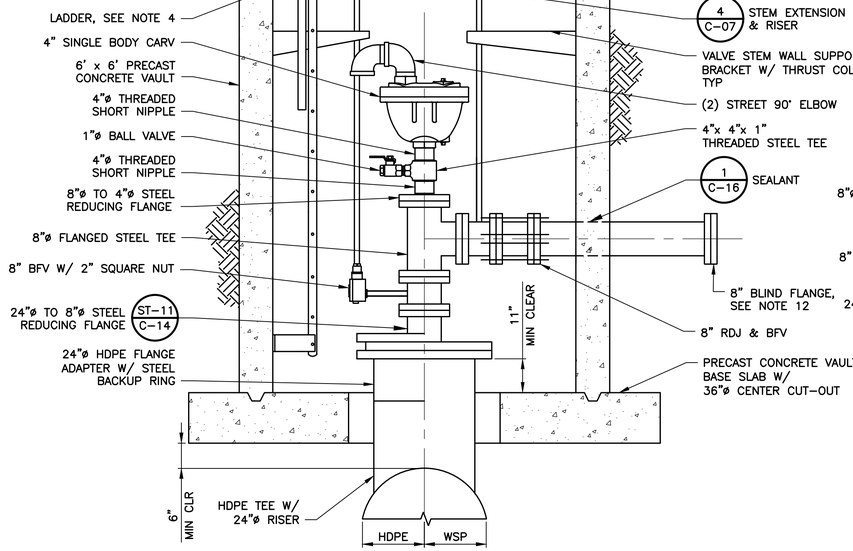


DETAIL 2/– CARV IN TRAFFIC RATED VAULT AND SERVICE TURNOUT

SCALE: NTS

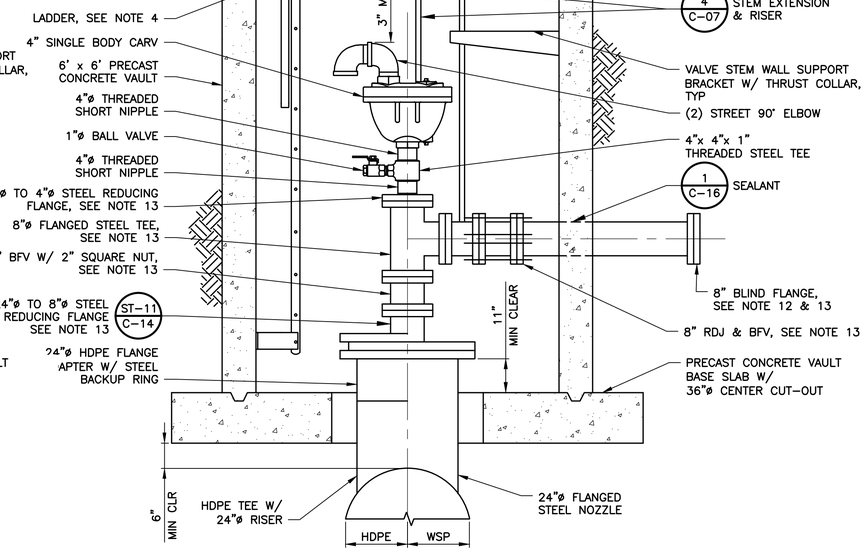
NOTES:

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 ℄.
8. 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.
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. BLIND FLANGE NOT REQUIRED AT STA 119+80.00 & STA 181+54.65.
13. 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.
14. 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

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — MATTHEW T. TAN — No. 85837 — CIVIL — STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
CARV VAULT AND SERVICE TURNOUT 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-08
SHEET NUMBER: 16

DOCUMENT NUMBER: WAE-C-9109-86770
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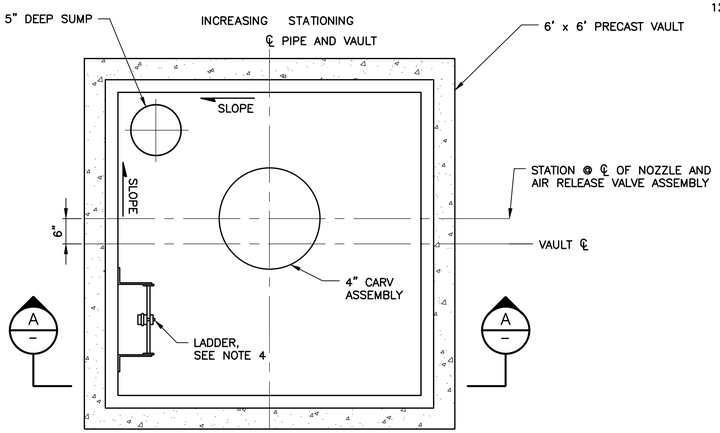
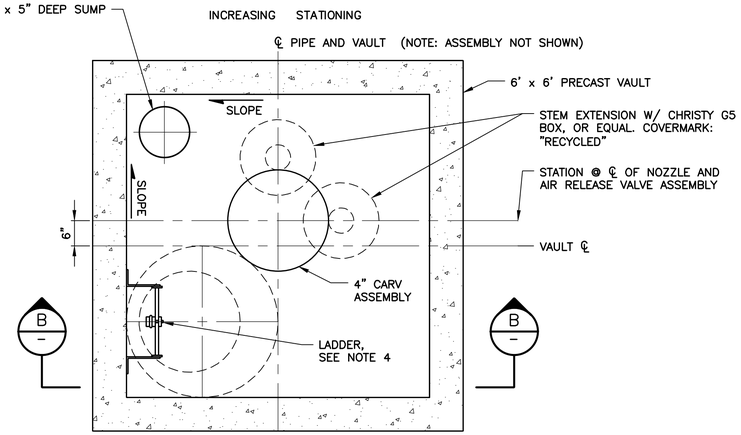


DETAIL 1 – CARV IN RAISED VAULT

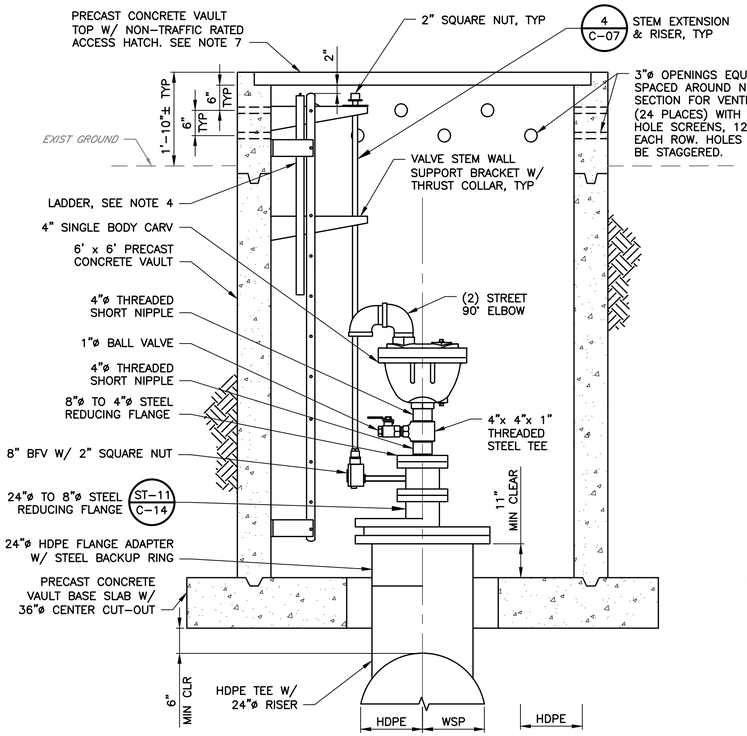
SCALE: NTS



DETAIL 2 – CARV IN TRAFFIC RATED VAULT

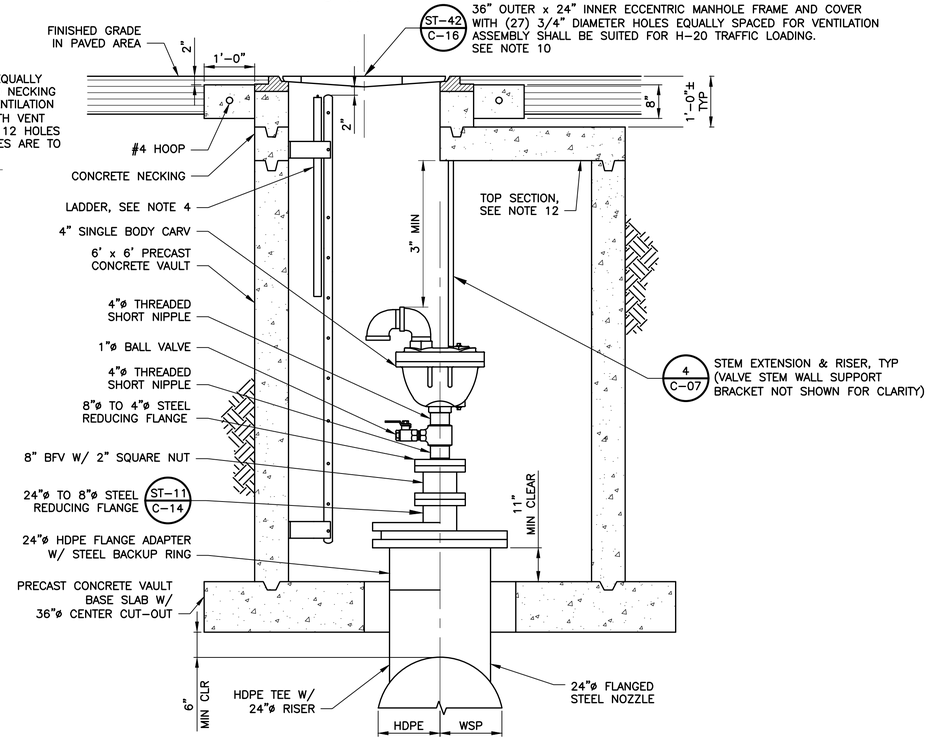
C-28
C-29
C-39
C-41

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 ℄.
8. 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.
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.

DOCUMENT NUMBER: WAE-C-9109-86771

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

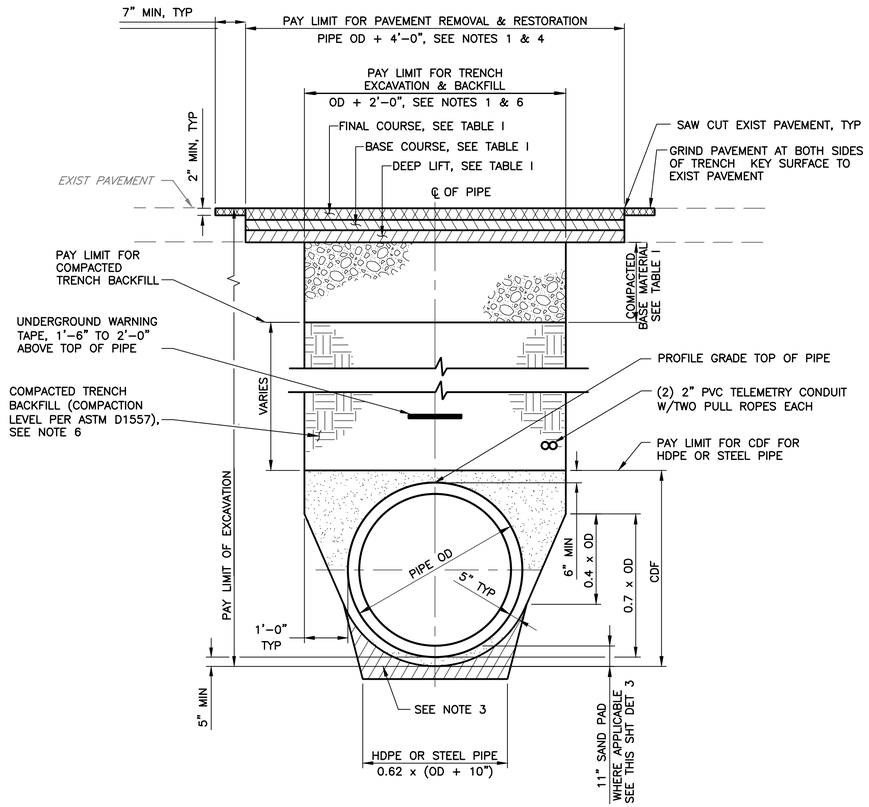
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW T. AN No. 85537 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

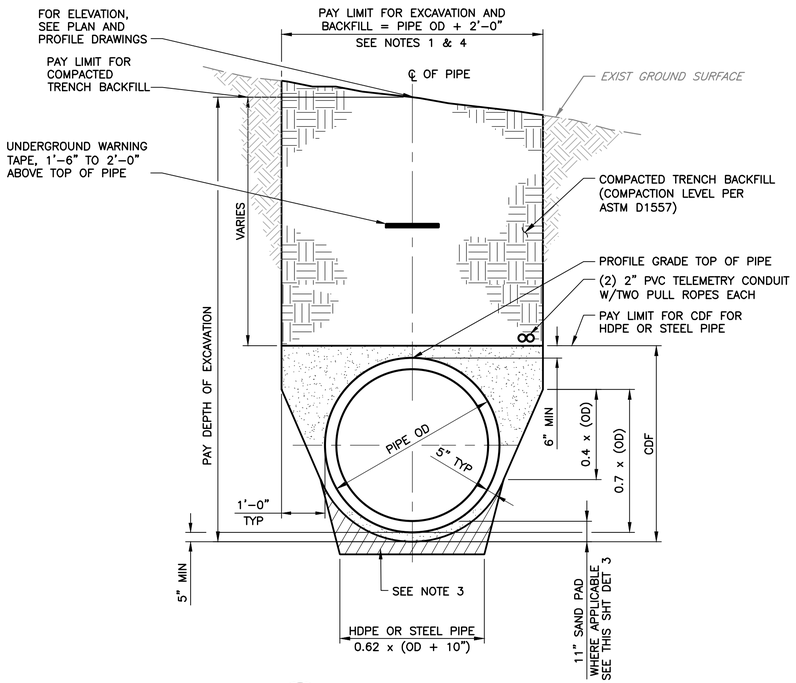
SCALE AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 91094009
SHEET CODE: C-09
SHEET NUMBER: 17



DETAIL 1 – TYPICAL SECTION – TRENCH @ PAVED AREAS

SCALE: NTS



DETAIL 2 – TYPICAL SECTION – TRENCH @ UNPAVED AREAS

SCALE: NTS

GENERAL NOTES:

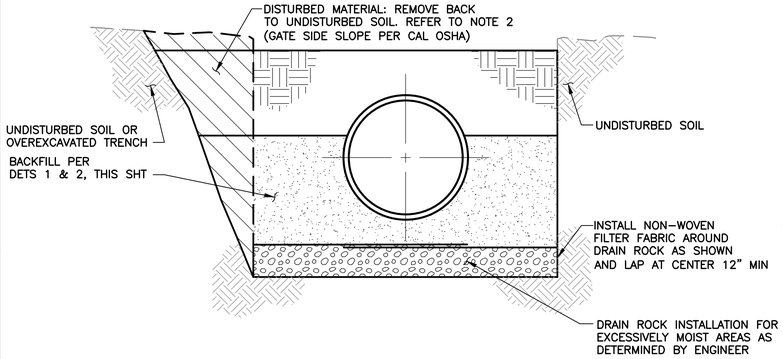
1. PAY LIMIT LINES INDICATE BOUNDARIES FOR CALCULATION OF QUANTITIES OF PAVEMENT REMOVAL AND REPLACEMENT AND OF TRENCH EXCAVATION AND BACKFILL. TRENCHING SHALL CONFORM TO OSHA EXCAVATION AND TRENCH SAFETY REQUIREMENTS REGARDLESS OF PAY LIMITS SHOWN.
2. ALL OVEREXCAVATION OR DISTURBED NATIVE MATERIAL 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.

TABLE I

MINIMUM REQUIREMENTS FOR PAVEMENT SECTION REPLACEMENT

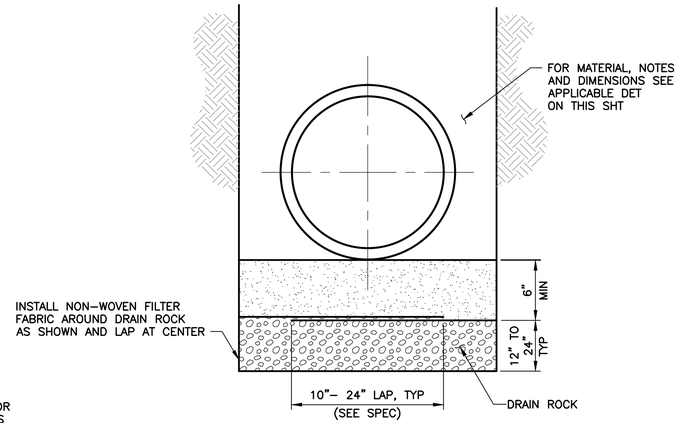
JURISDICTION	BASE MATERIAL (INCHES)	ASPHALT CONCRETE PAVEMENT		
		DEEP LIFT (INCHES)	BASE COURSE (INCHES)	FINAL COURSE (INCHES)
SCRWA	14*	–	4	2
CITY OF GILROY	10	–	4	2

* = OR MATCH EXISTING, WHICHEVER IS GREATER



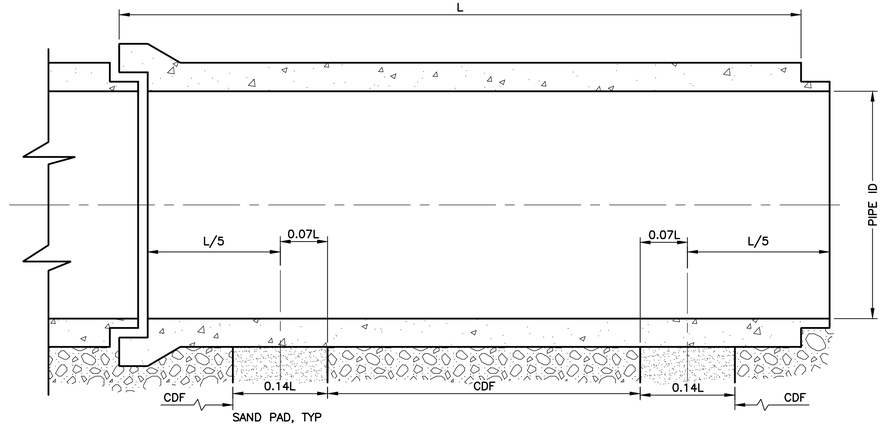
DETAIL 3 – OVEREXCAVATION OR CAVE-IN CORRECTIVE PROCEDURE

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85537 CIVIL STATE OF CALIFORNIA

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

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

DOCUMENT NUMBER: WAE-C-9109-86772

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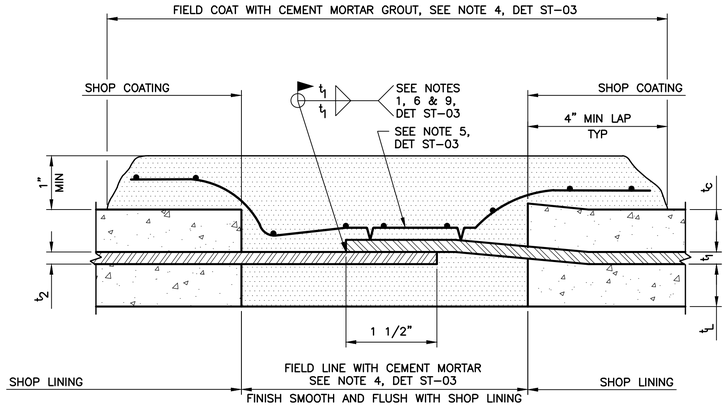
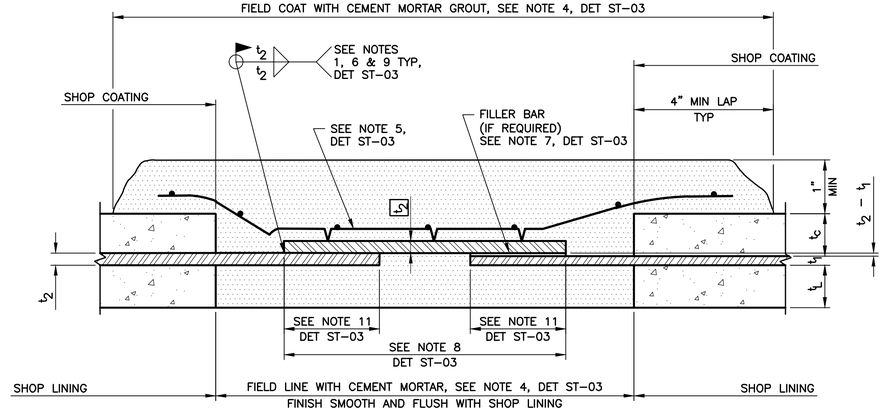


LAP WELD



BUTT STRAP

ST-02 TYP

FIELD JOINT – CEMENT MORTAR LINED AND COATED STEEL PIPE

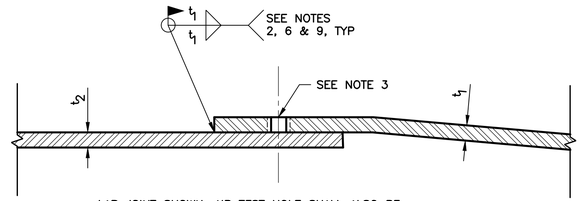
SCALE: NTS

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 ENCASEMENTS AND TUNNELS; AND
   B. THE FIRST PIPE JOINTS OUTSIDE OF THE CONCRETE ENCASEMENT 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_L AND CEMENT MORTAR COATING THICKNESS, t_c , 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".



LAP JOINT SHOWN, AIR TEST HOLE SHALL ALSO BE PROVIDED AT ALL DOUBLE WELD BUTT STRAP JOINTS. LINING AND COATING NOT SHOWN, SEE NOTE 4.

ST-03 TYP

NOTES AND AIR TEST HOLE FOR DOUBLE WELD JOINT

SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85837 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

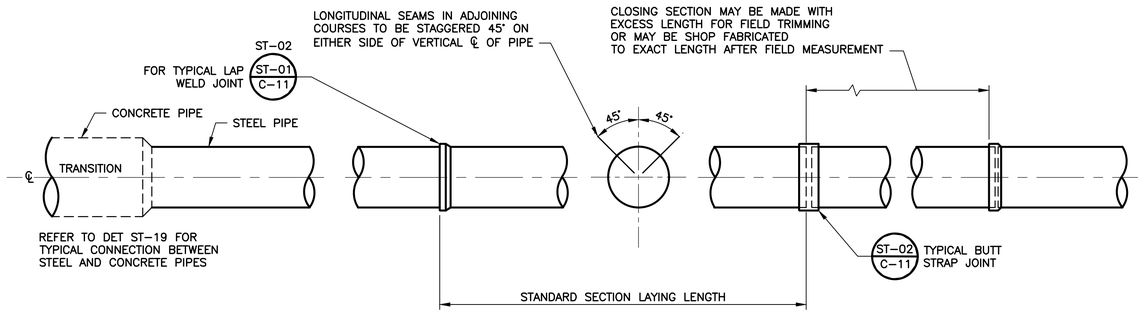
SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

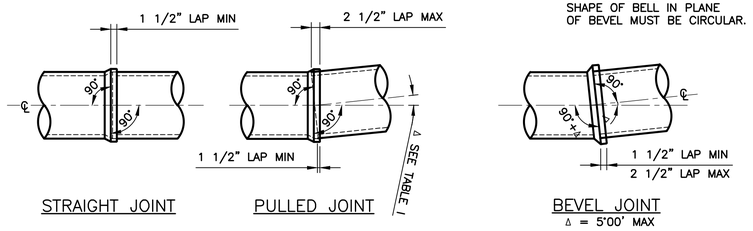
SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 91094009
SHEET CODE: C-11
SHEET NUMBER: 19

DOCUMENT NUMBER: WAE-C-9109-86773



TYPICAL INSTALLATION



NOTE:

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

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'

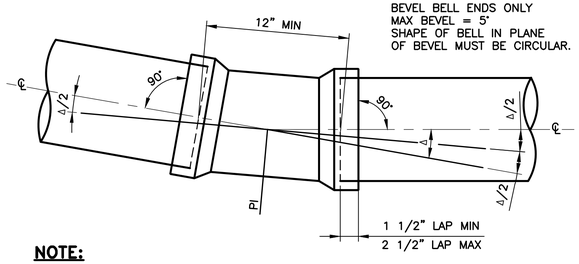
LAP WELD GIRTH JOINTS

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.

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
1. ALL FITTINGS SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH AWWA M11 AND C200 STANDARDS.
2. 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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85837 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

PROJECT NUMBER 91094009
SHEET CODE: C-12
SHEET NUMBER: 20

DOCUMENT NUMBER: WAE-C-9109-86774

USERNAME: TungTran 7/11/2025 4:11 PM
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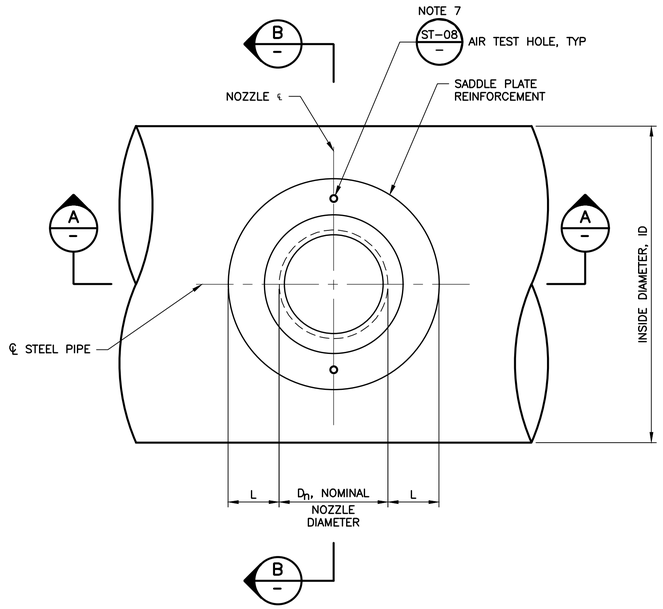
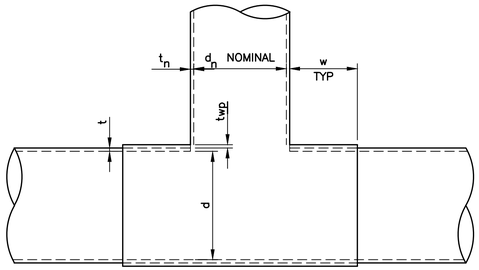


PLAN VIEW



NOTE:

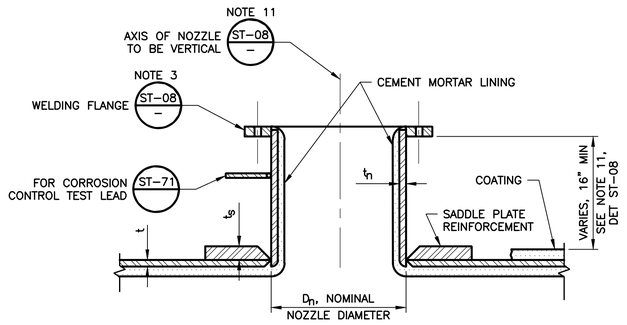
NOZZLE COATING AND LINING NOT SHOWN. FOR NOZZLE DIMENSIONS, SEE TABLE 2, FOR WELDING OF WRAPPER AT NOZZLE AND OUTSIDE END, SEE SHT C–15.

DETAIL 1 – NOZZLE WITH WRAPPED REINFORCEMENT

SCALE: NTS

NOTES:

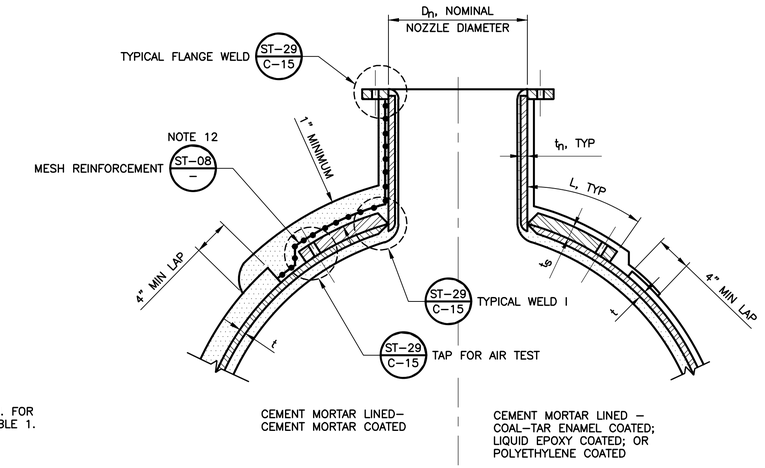
1. SEE SPECIFICATIONS FOR MATERIAL, INSTALLATION, COATING, AND LINING REQUIREMENTS.
2. ALL NOZZLES AND PLATES ARE TO BE MANUFACTURED FROM STEEL, CONFORMING TO THE REQUIREMENTS OF STEEL PIPE (ASTM 283 GRADE C OR EQUAL). FOR NOZZLES 24" OR LESS NOMINAL DIAMETER, ASTM A53 GRADE B STEEL PIPE MAY BE USED.
3. WELDING FLANGES SHALL BE SLIP–ON WELDING FLANGES, RING TYPE, FLAT–FACE, SEE SPECIFICATIONS. BLIND FLANGES SHALL BE STEEL, SEE SPECIFICATIONS.
4. FLANGE FACES SHALL BE SHOP COATED WITH A REMOVABLE RUST–PREVENTING COMPOUND TO PROVIDE PROTECTION DURING TRANSPORT AND PRIOR TO INSTALLATION.
5. FLANGE GASKETS SHALL BE 1/8" THICK, FULL–FACE CLOTH INSERTED RUBBER GASKETS. GASKETS FOR POTABLE WATER SYSTEMS SHALL BE NSF APPROVED.
6. FLANGE BOLTS SHALL STRADDLE CENTERLINE OF PIPE OR CENTERLINE OF FLANGE UNLESS REQUIRED OTHERWISE ON DRAWINGS.
7. 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.
8. ON BLIND FLANGES FOR BURIED NOZZLES, DRILL AND TAP 1" IPS HOLE AND INSTALL STEEL PLUG.
9. SHOP COAT ALL METAL SURFACES EXCEPT FLANGE FACES AND SURFACES RECEIVING FIELD APPLIED COATINGS.
10. COAT ALL EXPOSED METAL SURFACES WITH THE SAME COATING AS WAS USED ON THE MAIN PIPE, EXCEPT AS NOTED OTHERWISE.
11. 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.
12. 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.



NOTE:

1. NOZZLE COATING NOT SHOWN. FOR NOZZLE DIMENSIONS, SEE TABLE 1.

SECTION A



SECTION B

ST–08 TYP – TYPICAL NOZZLE STEEL PIPE NOTES

SCALE: NTS

TABLE 1

PIPE DIAMETER ID (IN)	PIPE CYLINDER* t (IN)	● D_n	NOZZLE THICKNESS t_n (IN)	INTERNAL DESIGN PRESSURE, FEET 360	X	X	X	X	L(IN)
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 d_n (INCHES)	NOZZLE THICKNESS t_n (INCHES)	MAIN CYLINDER THICKNESS t (INCHES)	WRAPPER THICKNESS t_{wp} (INCHES)	WRAPPER WIDTH w (INCHES)
36	24	0.375	0.25	0.1875	12
30	24	0.375	0.1875	0.1875	12

ST–06 TYP – TYPICAL NOZZLE OUTLET HORIZONTAL SECTION – STEEL PIPE

SCALE: NTS

ST–07 TYP – TYPICAL NOZZLE OUTLET VERTICAL SECTION – STEEL PIPE

SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION: REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85937 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
STANDARD DETAILS – NOZZLE DETAILS – STEEL 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–13
SHEET NUMBER: 21

DOCUMENT NUMBER: WAE–C–9109–86775

USERNAME: TungTran 7/11/2025 4:11 PM
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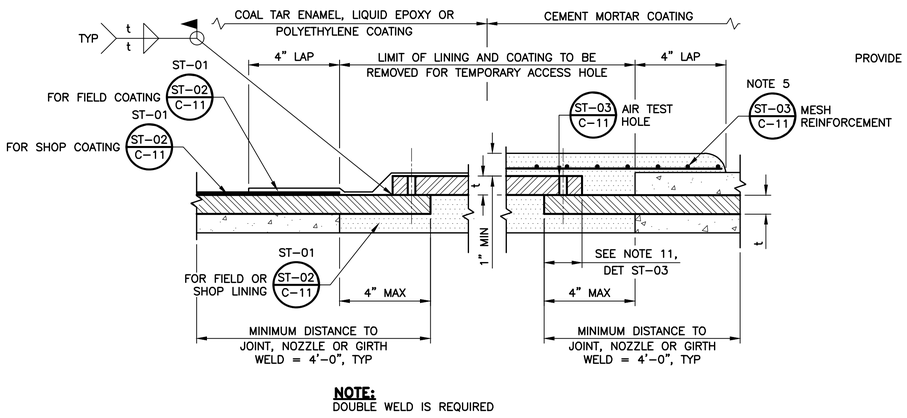
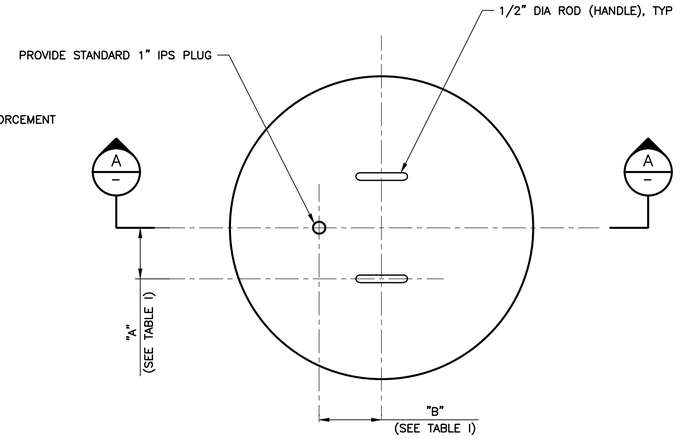


NOTE:
DOUBLE WELD IS REQUIRED

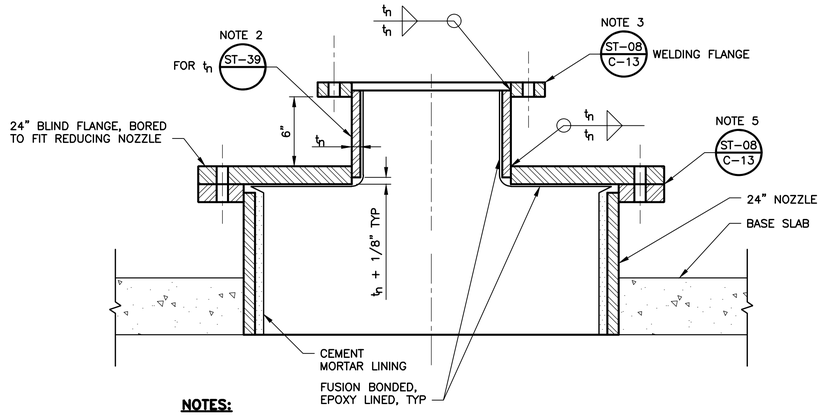
ACCESS HOLE ON STEEL PIPE

DETAIL 1/– OUTLET FITTINGS – STEEL PIPE

SCALE: NTS



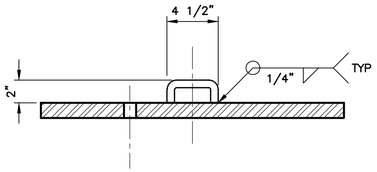
PLAN VIEW



NOTES:

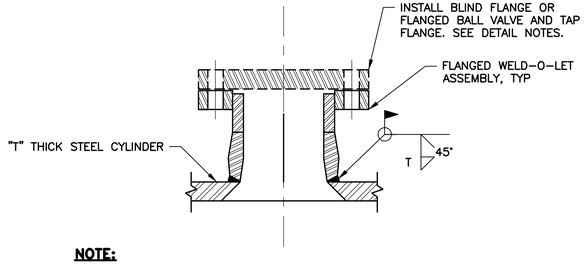
1. REDUCING NOZZLE TO BE CENTERED ON 24" BLIND FLANGE.
2. BOLT HOLES TO STRADDLE CENTERLINE OF PIPE.
3. REFER TO GENERAL NOTES ON DET ST-08.
4. REFER TO DET ST-06 AND ST-07.
5. COATING NOT SHOWN.

REDUCING NOZZLE



SECTION A

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

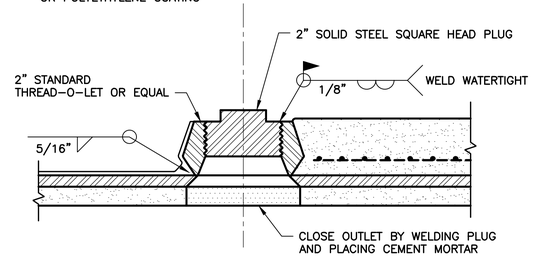


NOTE:

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



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-10 TYP BURIED NOZZLE BLIND FLANGE

SCALE: NTS

ST-11 TYP NOZZLE AND 2" OUTLET STEEL PIPE

SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85837 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
STANDARD DETAILS – TEMPORARY OUTLET DETAILS – STEEL 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-14
SHEET NUMBER: 22

DOCUMENT NUMBER: WAE-C-9109-86776

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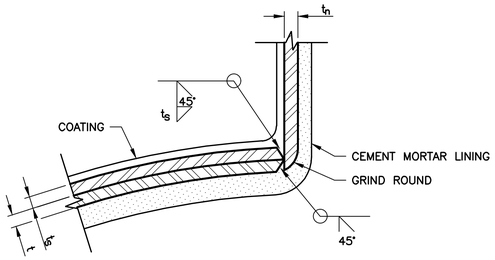
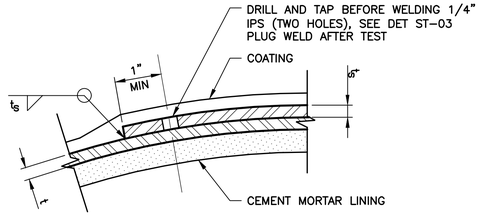
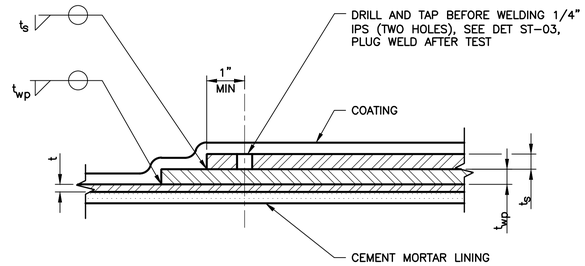


TYPICAL WELD I

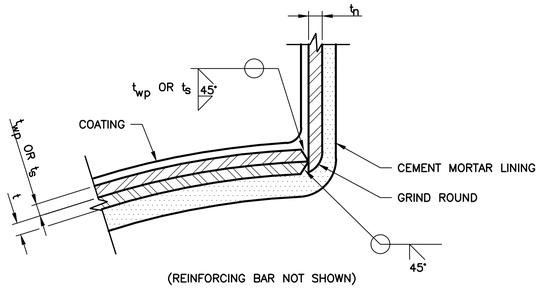


TAP FOR AIR TEST



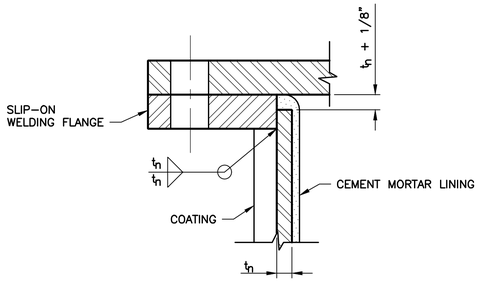
(REINFORCING BAR NOT SHOWN)

TAP FOR AIR TEST I

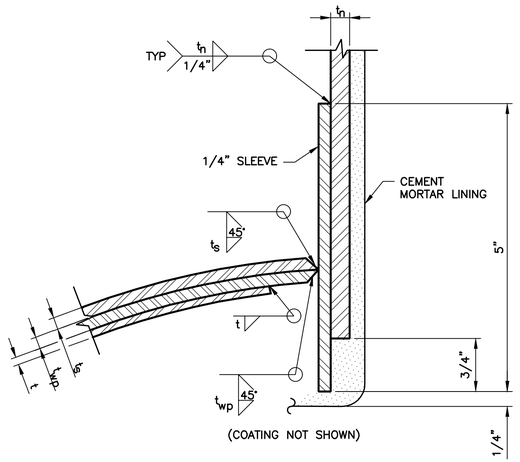


(REINFORCING BAR NOT SHOWN)

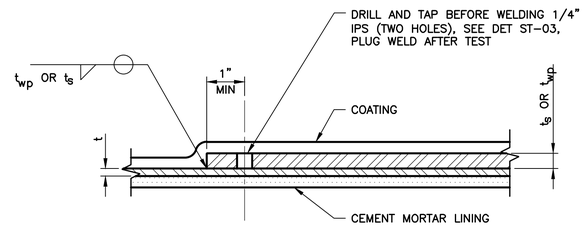
TYPICAL WELD



TYPICAL FLANGE WELD



TYPICAL WELD II



(REINFORCING BAR NOT SHOWN)

TAP FOR AIR TEST 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-9109-86777

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

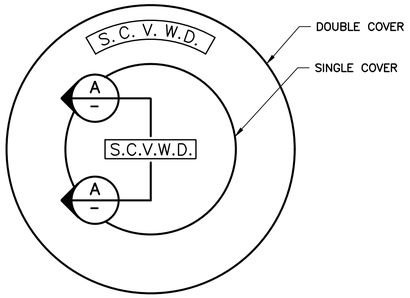
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW T. TAN No. 85837 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

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

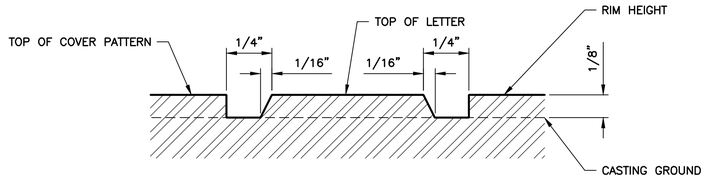
PROJECT NUMBER: 91094009
SHEET CODE: C-15
SHEET NUMBER: 23



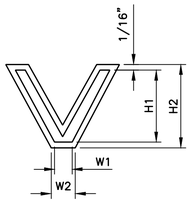
NOTE:

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

PLAN VIEW



SECTION A



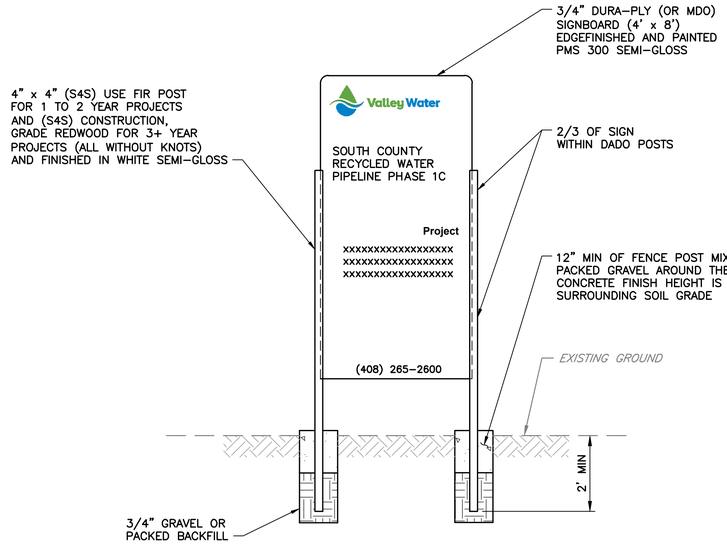
COVERS	H1	H2	W1	W2
SINGLE* COVER	1 1/16"	1 3/16"	1/8"	1/4"
DOUBLE* COVER SET	1 5/8"	1 3/4"	5/16"	7/16"

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

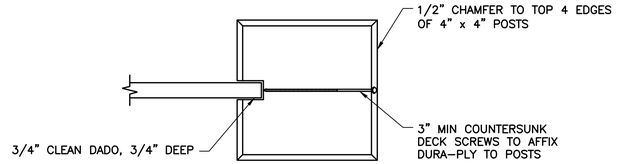
TYPICAL LETTER

ST-42 TYP **MANHOLE COVER LETTERING**

SCALE: NTS



FRONT VIEW



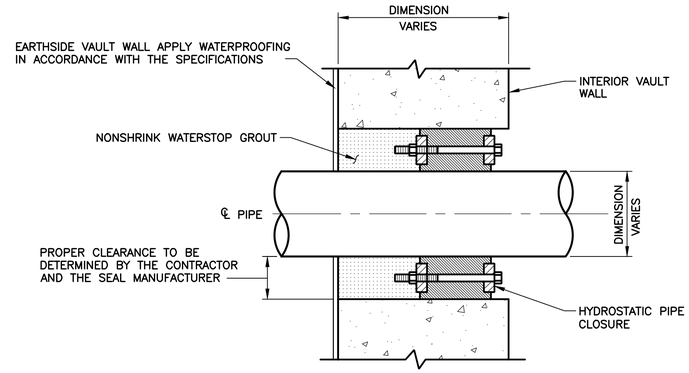
TOP VIEW

NOTES:

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

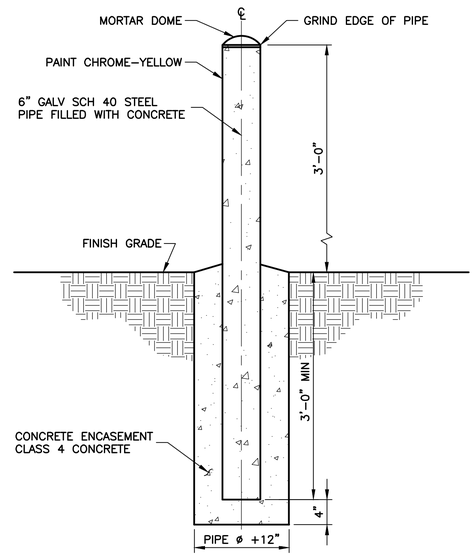
ST-221 TYP **PROJECT SIGN**

SCALE: NTS



DETAIL 1 – METHOD 1 SEALANT

SCALE: NTS



DETAIL 2 – PROTECTIVE BOLLARD

SCALE: NTS

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85537 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

DOCUMENT NUMBER: WAE-C-9109-86778

USERNAME: TungTran 7/11/2025 4:11 PM
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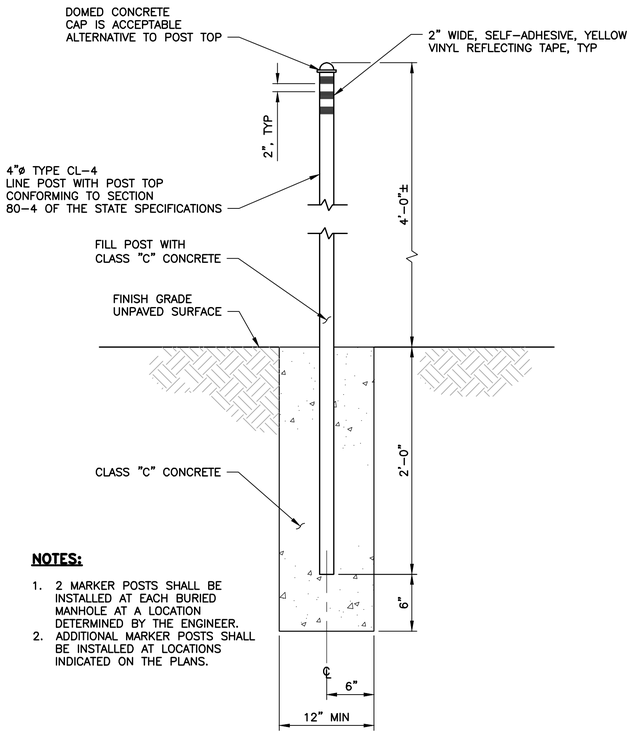
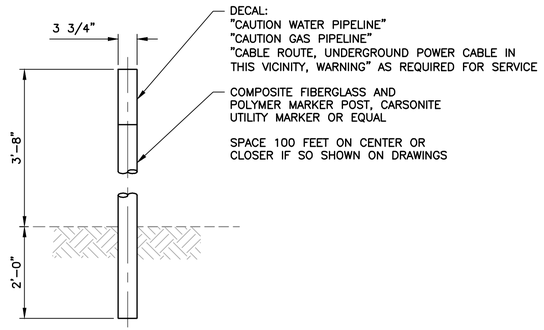


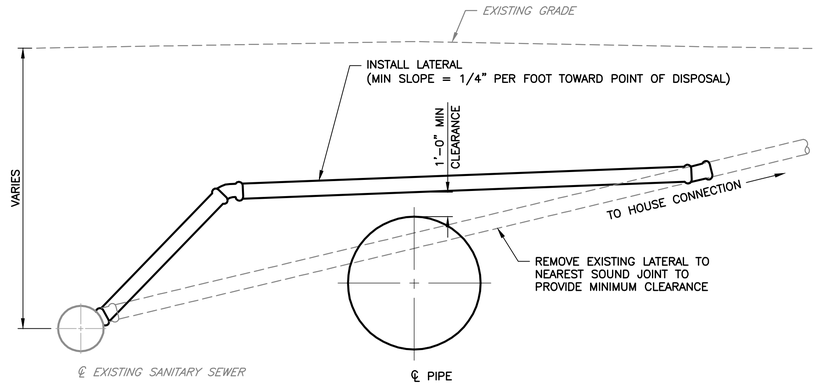
NOTES:

1. 2 MARKER POSTS SHALL BE INSTALLED AT EACH BURIED MANHOLE AT A LOCATION DETERMINED BY THE ENGINEER.
2. ADDITIONAL MARKER POSTS SHALL BE INSTALLED AT LOCATIONS INDICATED ON THE PLANS.

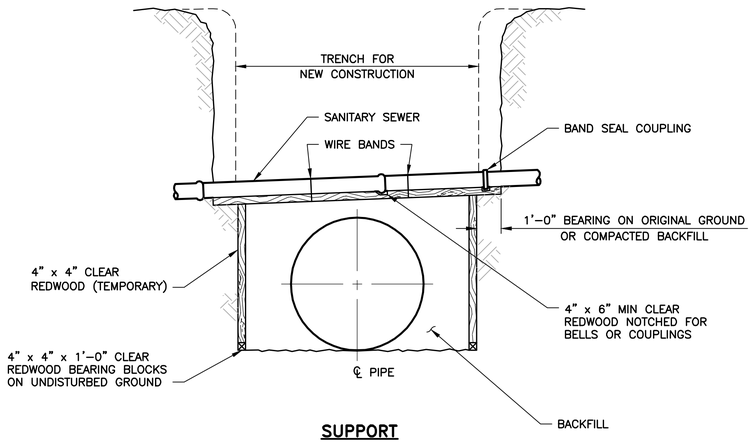
MARKER POST IN CONCRETE



MARKER POST



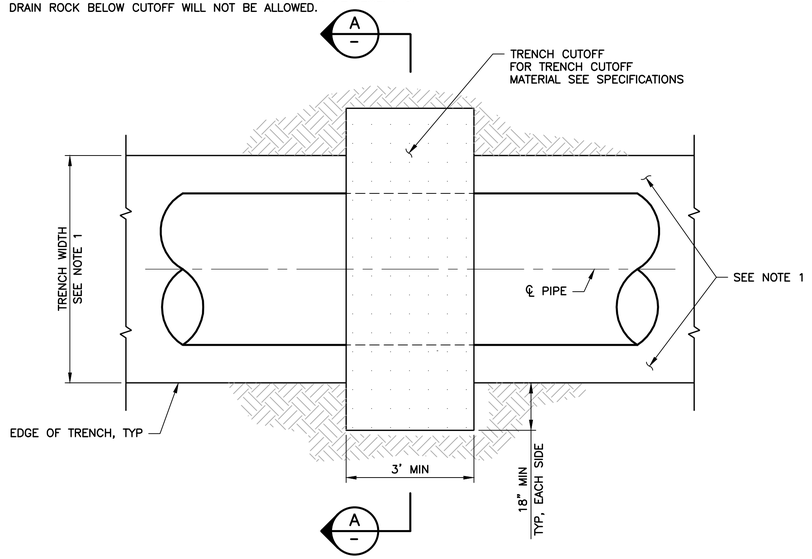
LATERAL RELOCATION



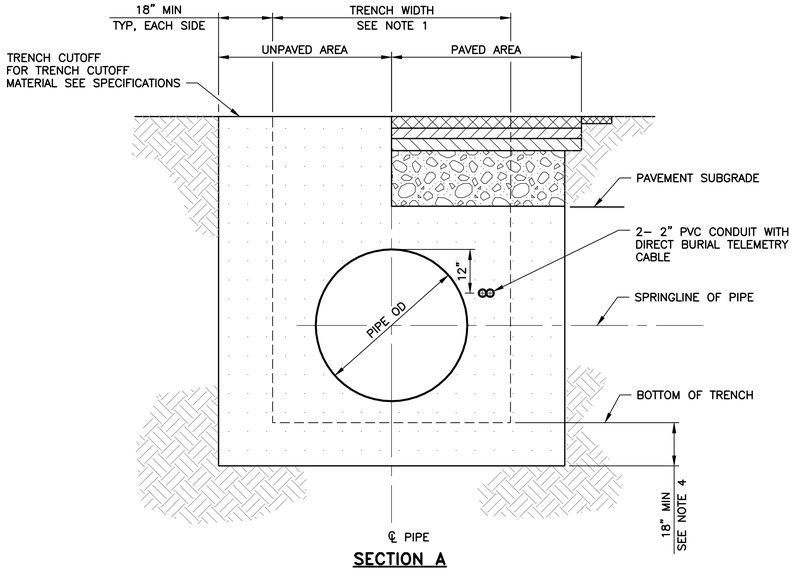
SUPPORT

NOTES:

1. BACKFILL SHALL COMPLY WITH DETAILS ON SHT C-10.
2. TRENCH CUTOFFS SHALL BE PLACED AGAINST UNDISTURBED EARTH.
3. TRENCH CUTOFFS SHALL NOT BE PLACED WITHIN 5 FEET OF PIPE JOINT.
4. 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-81 TYP TYPICAL PIPE/CONDUIT/VALVE MARKER POST
SCALE: NTS

ST-82 TYP MISCELLANEOUS DETAILS
SANITARY SEWER
SCALE: NTS

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

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DOCUMENT NUMBER: WAE-C-9109-86779

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

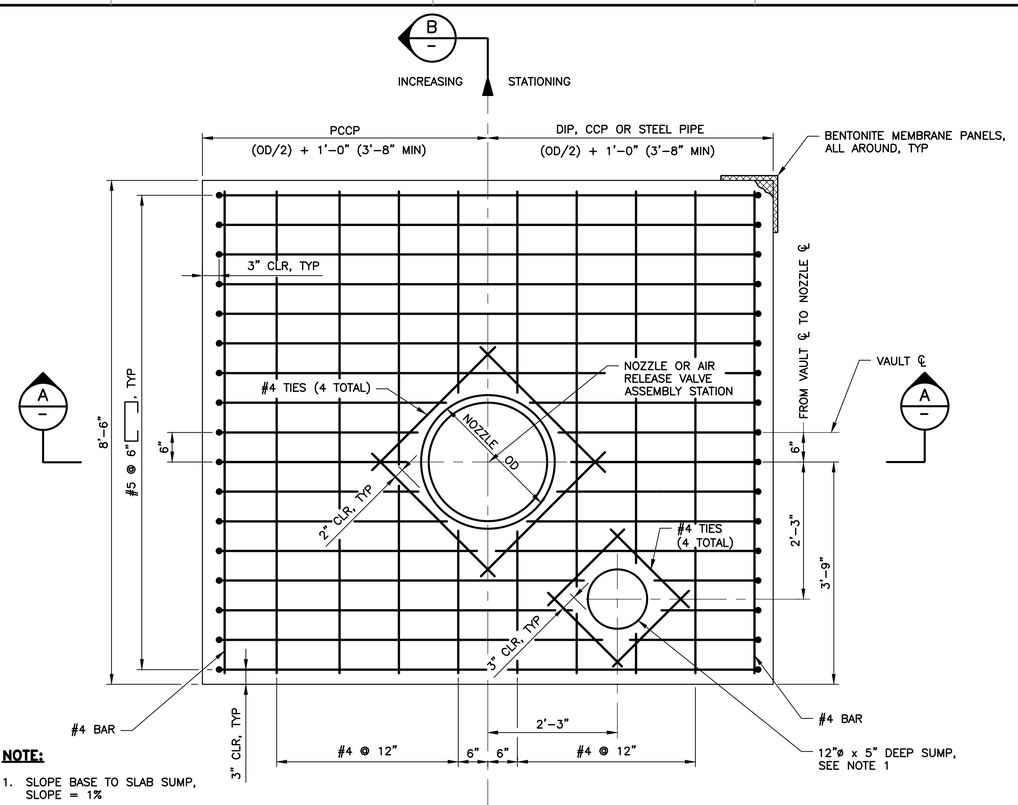
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW T. TAN No. 85837 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

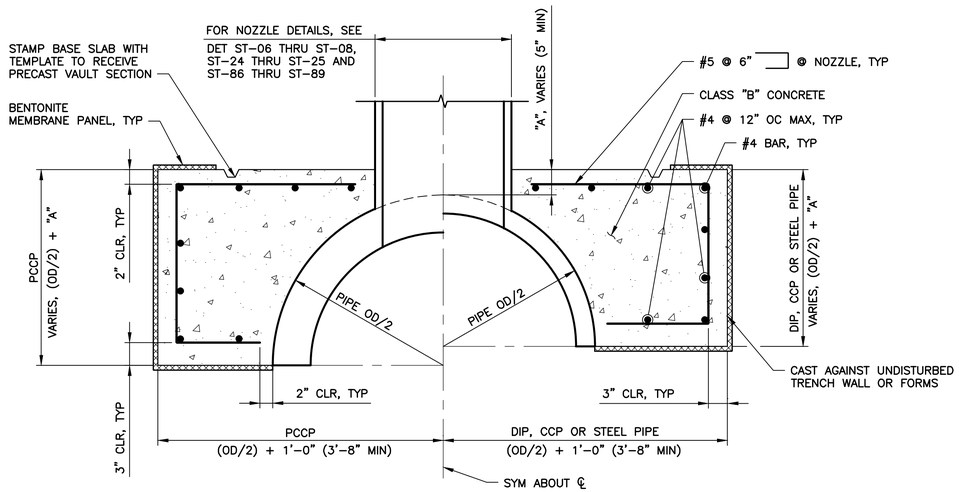
PROJECT NUMBER 91094009
SHEET CODE: C-17
SHEET NUMBER: 25



NOTE:

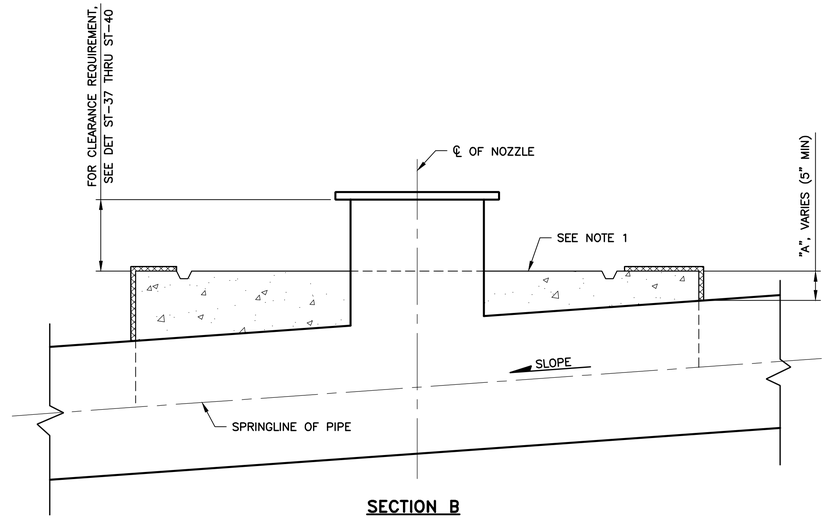
1. SLOPE BASE TO SLAB SUMP, SLOPE = 1%

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

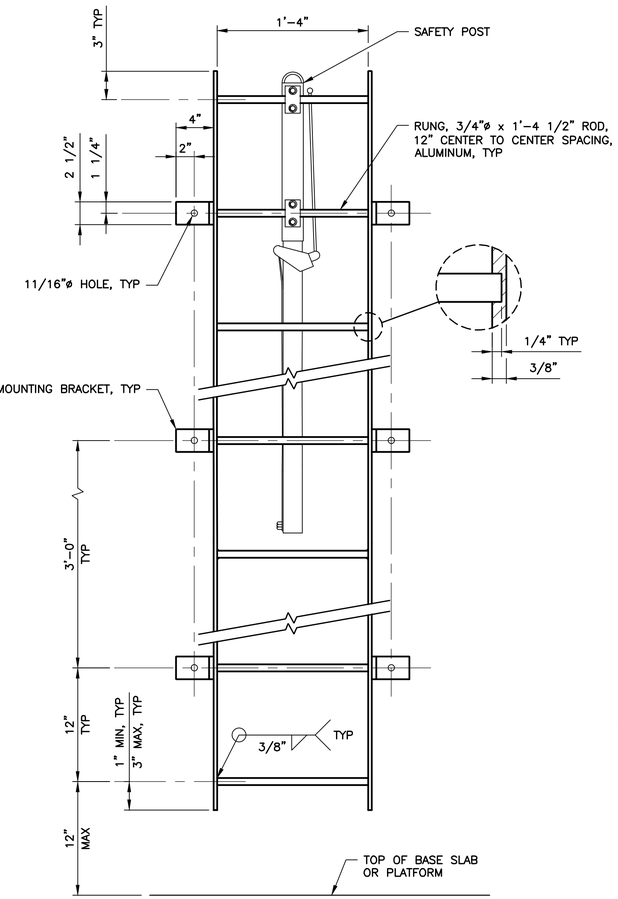
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — MATTHEW TAN — No. 85837 — CIVIL — STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

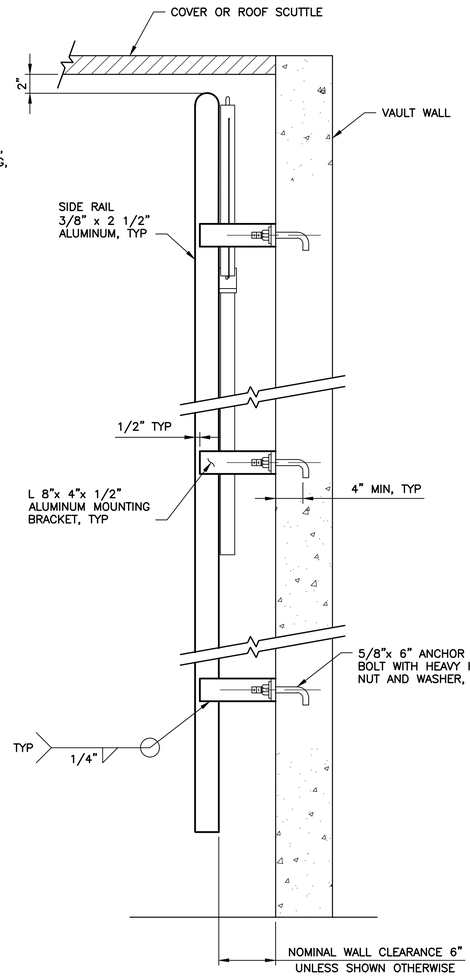
PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
STANDARD DETAILS – BASE SLAB FOR PRECAST VAULTS

SCALE	AS SHOWN
VERIFY SCALES	0 1"
	BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
PROJECT NUMBER	91094009
SHEET CODE:	C-18
SHEET NUMBER:	26

DOCUMENT NUMBER: WAE-C-9109-86780



FRONT VIEW



SIDE VIEW

ST-43 TYP

VAULT LADDER

SCALE: NTS

DOCUMENT NUMBER: WAE-C-9109-86781

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW T. TAN No. 85537 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

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-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.

TABLE–3, PIPE DESIGN
HIGH DENSITY POLYETHYLENE PIPE (AWWA C906)

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

TABLE–4, PIPE OUTLETS, APPURTENANCES AND VAULTS (CONT)

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

DOCUMENT NUMBER: WAE–C–9109–86782

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85537 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

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-20
SHEET NUMBER: 28

APPLICABLE CODES AND STANDARDS:

1. CALIFORNIA BUILDING CODE (CBC):
   THE CALIFORNIA CODE OF REGULATIONS (2019 CBC), BASED ON THE 2018 INTERNATIONAL BUILDING CODE.
2. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) / STRUCTURAL ENGINEERING INSTITUTE (SEI):
   ASCE 7-16
3. AMERICAN CONCRETE INSTITUTE (ACI):
   ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   ACI 318-99, STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI)
4. AMERICAN CONCRETE INSTITUTE (ACI):
   ACI 360-06, BUILDING CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING STRUCTURES
5. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC):
   AISC 360-16, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
6. AMERICAN WELDING SOCIETY (AWS):
   D1.1-10/D1.3-08/D1.1-10/D1.3-18/D1.4-18, STRUCTURAL WELDING CODE
7. AISI S100-18, NORTH AMERICAN SPECIFICATIONS FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENTS
8. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
   ALL ASTM REFERENCES NOTED
9. ALL OTHER LOCAL AND STATE AGENCIES HAVING JURISDICTION OVER THIS PROJECT.

DESIGN LOADS:

1. DEAD LOAD – ACTUAL WEIGHT OF MATERIALS OF CONSTRUCTION USED.
   LIVE LOAD – PRODUCED BY OCCUPANCY
   ROOF 20 psf (REDUCIBLE)
2. WIND LOAD:
   BASIC WIND SPEED, V 92 mph
   WIND EXPOSURE C
3. SEISMIC LOAD
   RISK CATEGORY II
   SITE CLASS D
   ACCELERATION SITE COEFFICIENT, Fa 1.0
   VELOCITY SITE COEFFICIENT, Fv 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:

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

GENERAL CONSTRUCTION NOTES:

1. STRUCTURAL DRAWINGS SHOULD NOT BE SCALED. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS, AND LARGE SCALE OVER SMALL.
2. 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.
3. 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.
4. 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.
5. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED BY NEW WORK.
6. ALL COLUMNS AND FOUNDATIONS, UNLESS NOTED OTHERWISE, SHALL BE CENTERED ON GRIDLINES IN EACH DIRECTION.
7. TYPICAL DETAILS SHALL APPLY IN GENERAL CONSTRUCTION UNLESS SPECIFICALLY DETAILED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
8. 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.
9. 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.
   9.1. DO NOT PLACE CONSTRUCTION MATERIALS OR OTHER CONSTRUCTION LOADS ON THE STRUCTURE SUCH THAT THE LOADS PLACED EXCEED THE CAPACITY OF THE STRUCTURE.
   9.2. 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.
   9.3. 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.
10. CONTRACTOR SHALL COORDINATE SHORING TO MAINTAIN EGRESS ROUTES.

CAST-IN-PLACE CONCRETE NOTES:

1. LOCATION OF CONSTRUCTION JOINTS OR POUR JOINTS SHALL BE AS INDICATED ON APPROVED SHOP DRAWINGS.
2. ALL CONCRETE SHALL BE VIBRATED DURING PLACEMENT.
3. PROVIDE 3/4 INCH CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
4. NO STAKES, NEITHER STEEL NOR WOOD, SHALL BE PERMITTED IN ANY CONCRETE POUR. SUSPEND FORMS FROM ABOVE GRADE.
5. 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.
6. ALL REINFORCEMENT SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318 FOR TYPICAL REINFORCEMENT BENDING.
7. 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.
8. 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.
9. NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO ALL POURS.
10. 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.
11. 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	2
	#5 AND SMALLER	1 1/2
NOT EXPOSED TO WEATHER OR EARTH		
SLABS, WALLS, AND JOISTS	#14 THROUGH #18	1 1/2
	#11 AND SMALLER	3/4
BEAMS AND COLUMNS (PRIMARY REINF., TIES, STIRRUPS, & SPIRALS)	ALL	1 1/2

12. CONTRACTOR SHALL SCAN WALLS PRIOR TO DRILLING TO INSTALL POST INSTALLED ANCHORS. CONTRACTOR SHALL NOT DAMAGE/CUT EXISTING REINFORCEMENT STEEL WITHOUT APPROVAL FROM ENGINEER.
13. 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.
14. 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.
15. LAP SPLICE LENGTH SHALL BE MIN 30" UNLESS NOTED OTHERWISE ON DRAWINGS.

FOUNDATION DESIGN NOTES:

1. 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
2. ALL FOUNDATION AND EXCAVATION SHOULD BE DONE PER THE GEOTECHNICAL REPORT RECOMMENDATIONS AND THE CONSTRUCTION DOCUMENTS.

SPECIAL INSPECTION:

1. 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:

1. 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.
2. PRECAST UNDERGROUND VAULTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIFIED LOAD CONDITIONS AND WITH ASTM C 857 AND C 858.
3. 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.
4. 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.
5. REFER TO ASTM C 891 FOR INSTALLATION OF PRECAST UNDERGROUND STRUCTURES.
6. THE MANUFACTURER SHALL COMPLY WITH ASTM C 1037 AND SHALL SUPPLY ANY ASSOCIATED TEST DATA AND INSPECTION RECORDS TO THE SCVWD REPRESENTATIVE.
7. PRECAST CONCRETE SHALL MEET THE CAST-IN-PLACE CONCRETE NOTES AS THEY APPLY.

PRECAST BUILDING (CHEMICAL FEED STATION) NOTES:

1. 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 GROUNDWATER	BELOW GROUNDWATER
	STRUCTURE 1 & 2	
ACTIVE	46 PCF	87 PCF
AT-REST	67 PCF	98 PCF
PASSIVE	840 PCF	840 PCF
	STRUCTURE 3 THRU 5	
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 = $24H^2$ PLF (STRUCTURES 1 & 2)
= $17H^2$ 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

DOCUMENT NUMBER: WAE-S-9109-86783

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

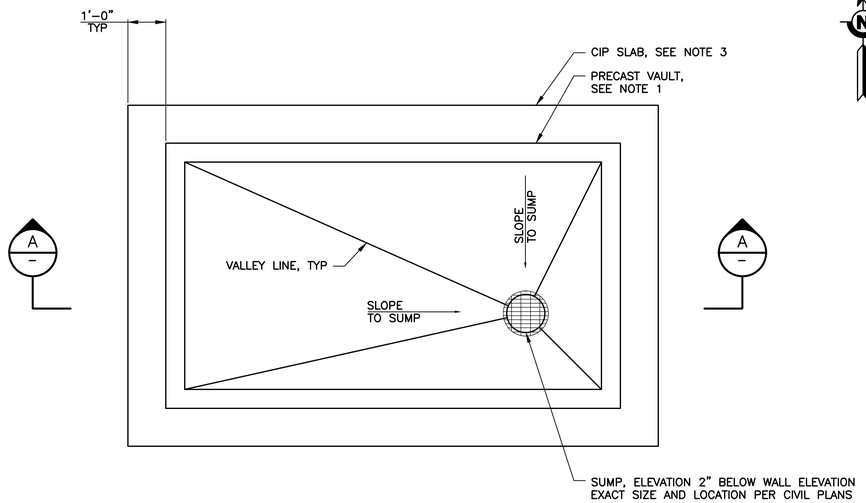
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85537 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

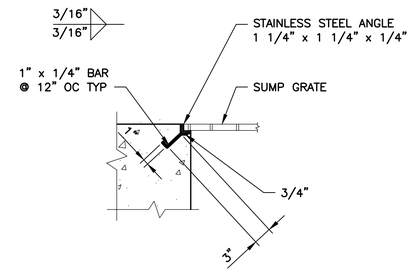
PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
GENERAL STRUCTURAL NOTES

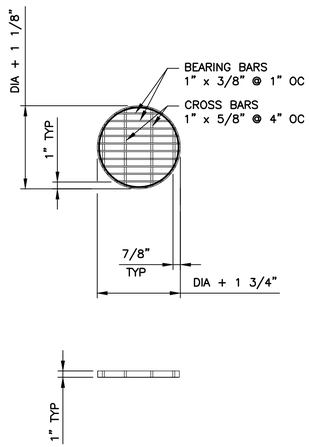
SCALE AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 91094009
SHEET CODE: S-01
SHEET NUMBER: 29

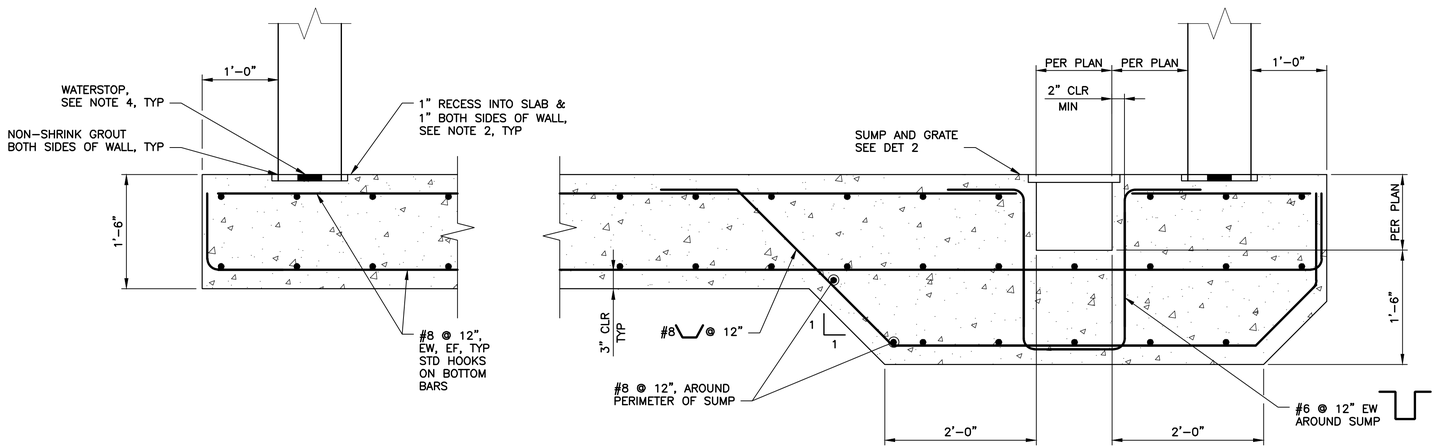


TYPICAL DETAIL 1/– PLAN VIEW
SCALE: NTS





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.

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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DRAWN T. TRAN
CHECKED J. RENTERIA

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85837 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
TYPICAL CAST-IN-PLACE SLAB PLAN AND SECTION

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-02
SHEET NUMBER: 30

DOCUMENT NUMBER: WAE-S-9109-86784

USERNAME: TungTran 7/11/2025 4:12 PM
FILENAME: K:\Active Projects\MP-91094009\SCRWP\SHEETS\REBID\SET 1\S-02.dwg

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
A.C.	ASPHALT CONCRETE
AJB	ANODE JUNCTION BOX
AMP	AMPERES
AN	ANODE
ATS	ANODE TEST STATION
AWG	AMERICAN WIRE GAUGE
BIF	BIFURCATION
CLSM	CONTROLLED LOW–STRENGTH MATERIAL
CP	CATHODIC PROTECTION
CTS	CORROSION TEST STATION
DC	DIRECT CURRENT
DR	DRAIN CABLE
D/S	DOWN–STREAM
E	EXISTING
EG	EXISTING GRADE
EP	EDGE OF PAVEMENT
FT	FEET
GRS	GALVANIZED RIGID STEEL
HDPE	HIGH DENSITY POLYETHYLENE
HMWPE	HIGH MOLECULAR WEIGHT POLYETHYLENE
HSCI	HIGH SILICON CAST IRON
ICCP	IMPRESSED CURRENT CATHODIC PROTECTION
I.D.	INSIDE DIAMETER
LB	POUNDS
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
N	NEW
NR	NEAR
O.D.	OUTER DIAMETER
O.H.	OVER–HEAD
PL	PIPELINE
PMTS	POST MOUNTED TEST STATION
HDPE	POLYVINYL CHLORIDE
REQ'D	REQUIRED
REV	REVISION
RW	RECLAIMED WATER
SCH	SCHEDULE
STL	STEEL
TBD	TO BE DETERMINED
THHN	THERMOPLASTIC HIGH HEAT RESISTANT NYLON COATED
THWN	THERMOPLASTIC HIGH WATER RESISTANT NYLON–COATED
TYP	TYPICAL
UG	UNDERGROUND
U/S	UP–STREAM
V	VOLTS
W/	WITH
XHHW	CROSS–LINKED POLYETHYLENE, HIGH HEAT–RESISTANT, WATER RESISTANT
&	AND
ø	DIAMETER
'	FEET
"	INCH

GENERAL CATHODIC PROTECTION NOTES:

1. ALL STRUCTURES SHALL BE INSTALLED WITH A COATING SYSTEMS AS FOLLOWS:
   1.1. STEEL PIPELINES SHALL BE INSTALLED WITH A MORTAR COATING.
   1.2. ALL DIRECT BURIED STEEL OR DUCTILE IRON APPURTENANCES, VALVES, AND FITTINGS CONNECTED TO HDPE OR MORTAR COATED STEEL PIPE SHALL BE MORTAR COATED, MORTAR ENCASED, OR BACKFILLED WITH CLSM/CDF.
   1.3. THE STEEL CASING AT UVAS CREEK SHALL BE INSTALLED WITH FACTORY APPLIED SCOTCHKOTE 328, ABRASION RESISTANT COATING, OR EQUIVALENT.
2. BOND ALL NON–WELDED, MECHANICAL CONNECTIONS TO EX WSP USING TWO #4 AWG/HMWPE BOND CABLES PER DETAIL 5, SHT CP–02.
3. PROVIDE ELECTRICAL ISOLATION ON ABOVE GRADE FLANGE JOINTS AS INDICATED ON THE CIVIL "PLAN AND PROFILE", SHTS C–01 THRU C–04, AND CATHODIC PROTECTION DET 1, SHT CP–01.
4. THE CATHODIC PROTECTION SYSTEM UPGRADE FOR THIS PROJECT SHALL CONSIST OF TWO (2) IMPRESSED CURRENT CATHODIC PROTECTION SYSTEMS FOR MORTAR COATED STEEL PIPE, AND ONE (1) IMPRESSED CURRENT SYSTEM FOR THE EPOXY COATED CASING AT UVAS CREEK CROSSING. METALLIC VALVES, FITTINGS, AND APPURTENANCES ON THE HIGH DENSITY POLYETHYLENE (HDPE) PIPELINE SECTIONS SHALL BE PROVIDED WITH HIGH–POTENTIAL MAGNESIUM ANODES. IMPRESSED CURRENT SYSTEMS SHALL CONSIST OF A DC RECTIFIER UNIT, ANODE JUNCTION BOX, AND DEEP ANODE BED WITH CAST IRON ANODES.
5. GALVANIC CATHODIC PROTECTION SHALL BE PROVIDED FOR ALL CASINGS AS SHOWN, EXPECT IMPRESSED CURRENT CATHODIC PROTECTION SHALL BE PROVIDED FOR THE UVAS CREEK CASING.
6. WATER WILL BE PROVIDED BY VALLEY WATER AT THE VAULTS OR PUMP STATIONS FOR CONTRACTOR'S USE DURING DEEP ANODE BED INSTALLATIONS.
7. CALL UNDERGROUND SERVICE ALERT BEFORE DIGGING, TRENCHING OR DRILLING AT ANY LOCATION.
8. EACH NON–INSULATING MECHANICAL JOINT ON ANY SUCH ASSEMBLY SHALL BE BONDED TOGETHER PER DET 5, SHT CP–06.
9. ALL UNDERGROUND UTILITY LOCATIONS SHOWN ON SHEETS CP–02, CP–03, AND CP–04 ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO DIGGING OR TRENCHING.
10. FOLLOWING CONSTRUCTION, THE CATHODIC PROTECTION SYSTEM SHALL BE ENERGIZED AND COMMISSIONED UNDER THE SUPERVISION OF THE DISTRICT.

DOCUMENT NUMBER: WAE–CP–9109–86785

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

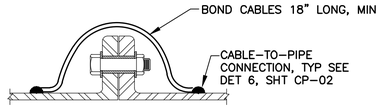
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85537 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

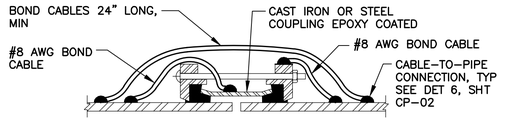
PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
ABBREVIATIONS, PROJECT PHASING AND RECTIFIER INSTALLATIONS, DEEP ANODE BED SCHEMATIC, GENERAL CATHODIC PROTECTION NOTES, & TABLES

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

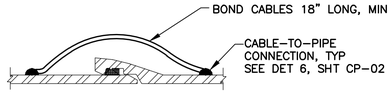
PROJECT NUMBER 91094009
SHEET CODE: CP–01
SHEET NUMBER: 31



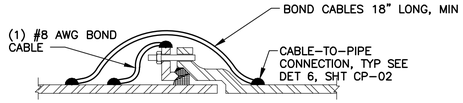
FLANGED JOINT



FLEXIBLE COUPLING



PUSH-ON JOINT

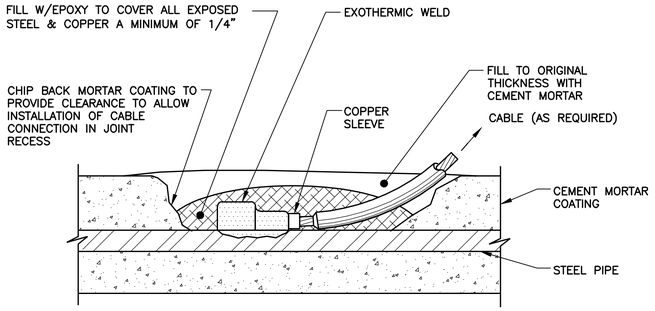


MECHANICAL JOINT

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

DETAIL 5 / CP-02 MORTAR COATED STEEL PIPE OPTION BOND CABLE INSTALLATION

SCALE: NTS



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 6 / CP-02 MORTAR COATED STEEL PIPE OPTION CABLE-TO-PIPE CONNECTION

SCALE: NTS

DOCUMENT NUMBER: WAE-CP-9109-86786

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

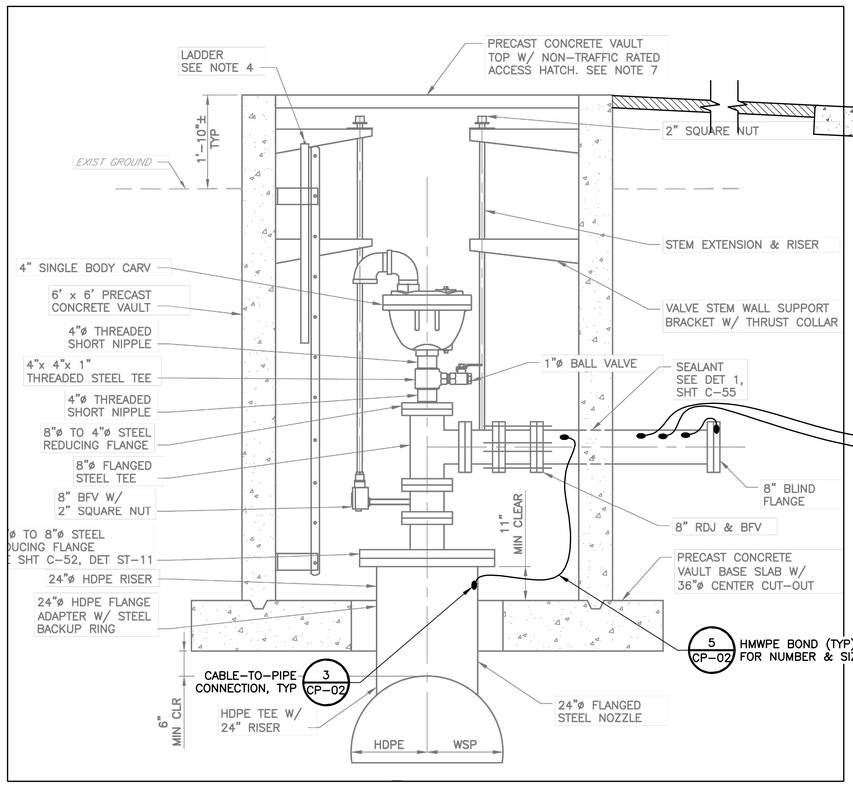
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85837 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

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-02
SHEET NUMBER: 32

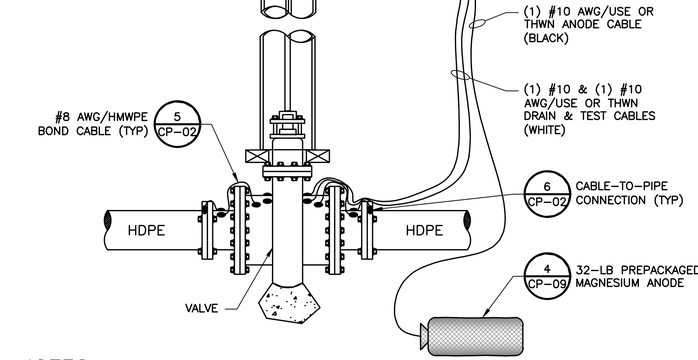


NOTES:

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 CP-03 COMBINATION AIR RELEASE VALVE – ANODE & TEST STATION INSTALLATION

SCALE: NTS

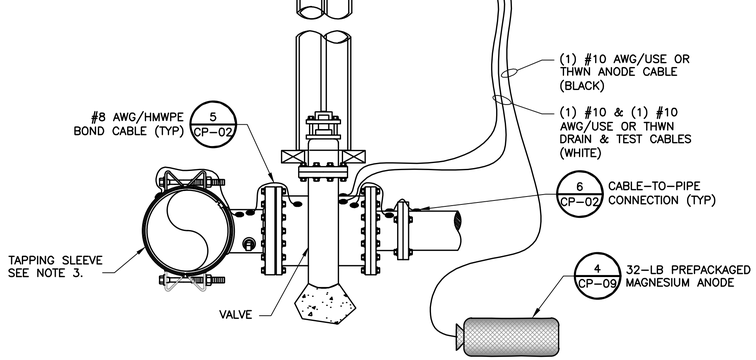


NOTES:

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 CP-03 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 CP-03 TAPPING SLEEVE & VALVE – ANODE & TEST STATION INSTALLATION

SCALE: NTS

DOCUMENT NUMBER: WAE-CP-9109-86787

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85537 CIVIL STATE OF CALIFORNIA

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C

CATHODIC PROTECTION DETAILS III

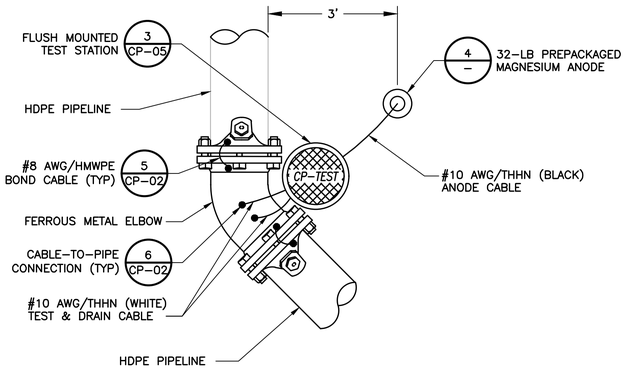
SCALE: AS SHOWN

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

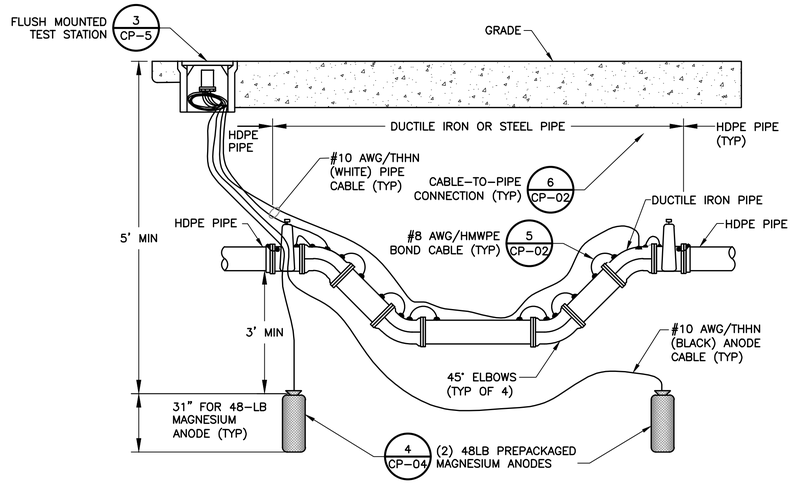


NOTES:

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/CP-04 FITTING – ANODE & TEST STATION

SCALE: NTS

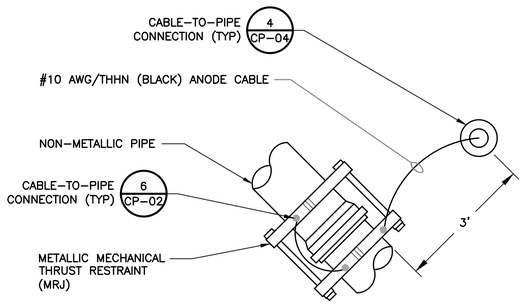


NOTES:

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/CP-04 OFFSET (HDPE PIPE) – ANODE & TEST STATION

SCALE: NTS

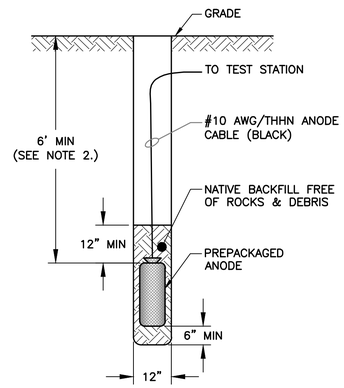


NOTE:

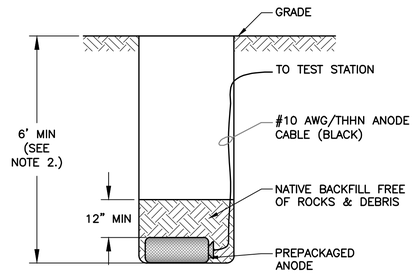
NO TEST STATION IS REQUIRED FOR THESE FITTINGS, HOWEVER A RECORD OF ALL INSTALLATIONS SHALL BE PROVIDED TO THE PROJECT ENGINEER.

DETAIL 3/CP-04 MECHANICALLY RESTRAINED JOINT – ANODE INSTALLATION ON HDPE

SCALE: NTS



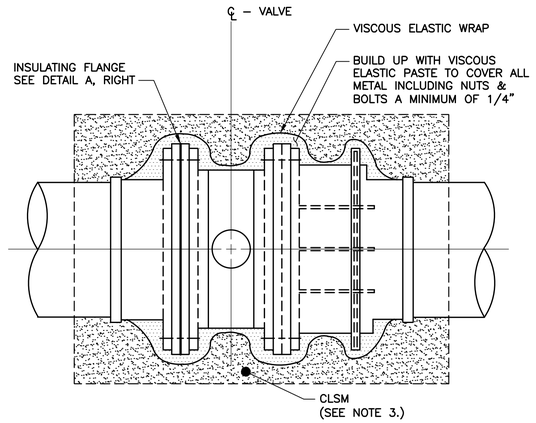
VERTICAL INSTALLATION



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.

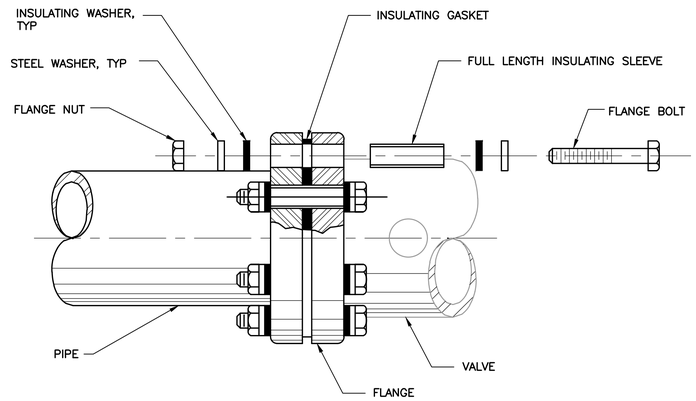


NOTES:

1. 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/CP-04 MECHANICAL PIPE JOINTS – COATING

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/CP-04 INSULATING FLANGE JOINTS ASSEMBLY

SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85837 CIVIL STATE OF CALIFORNIA

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C

CATHODIC PROTECTION DETAILS IV

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-04

SHEET NUMBER: 34

DOCUMENT NUMBER: WAE-CP-9109-86788

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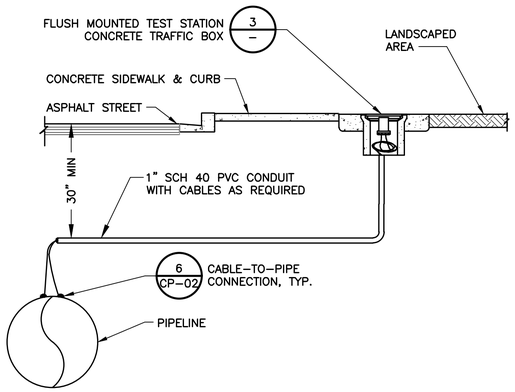
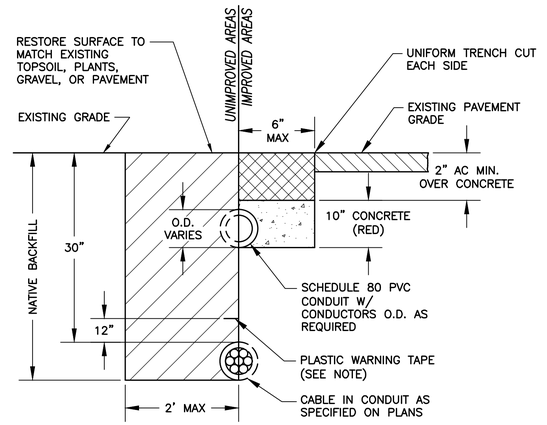


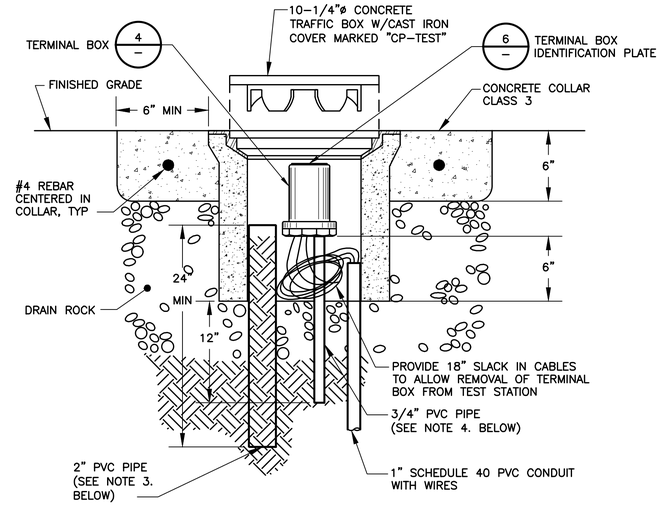
NOTE:
DO NOT INSTALL TEST STATIONS IN DRIVEWAYS.

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



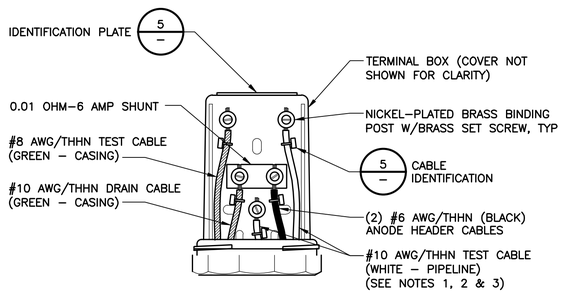
NOTE:
THE WARNING TAPE USED FOR ALL CABLES SHALL BE RED BURIAL TAPE.

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

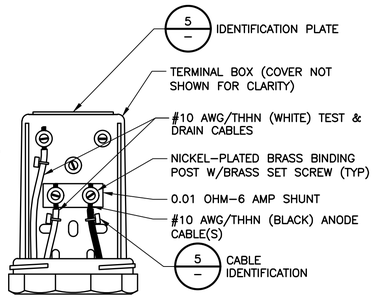


NOTES:
1. FLUSH MOUNTED TEST STATIONS SHALL BE USED FOR ALL TEST STATIONS.
2. IDENTIFY ALL CABLES PER DET 5, SHT CP–10.
3. INSTALL 2" PVC PIPE IN CLEAN NATIVE SOIL. FILL PIPE WITH CLEAN SOIL, FREE FROM ROCKS & DEBRIS.
4. INSTALL 18" LENGTH OF 3/4" PVC PIPE TO ENSURE THAT THE TERMINAL BOX WILL REMAIN 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.

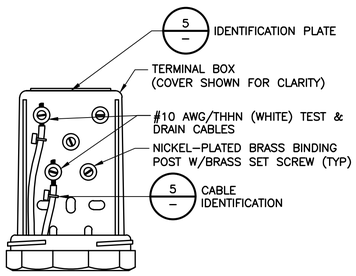
DETAIL 3 CP-05 MORTAR COATED STEEL PIPE OPTION FLUSH MOUNTED TEST STATION
SCALE: NTS



CATS TERMINAL BOX

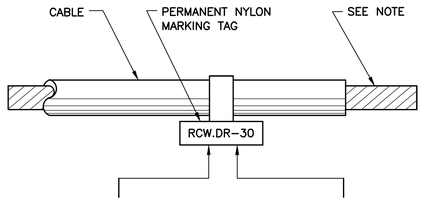


ATS TERMINAL BOX



CTS TERMINAL BOX

DETAIL 4 CP-05 TS TERMINAL BOX
SCALE: NTS



ABBREVIATIONS

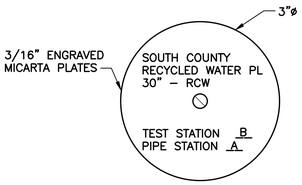
AN – ANODE
RCW – RECYCLED WATER PIPELINE
TT – TEST CABLE
DR – DRAIN CABLE
CA – CASING CABLE

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

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

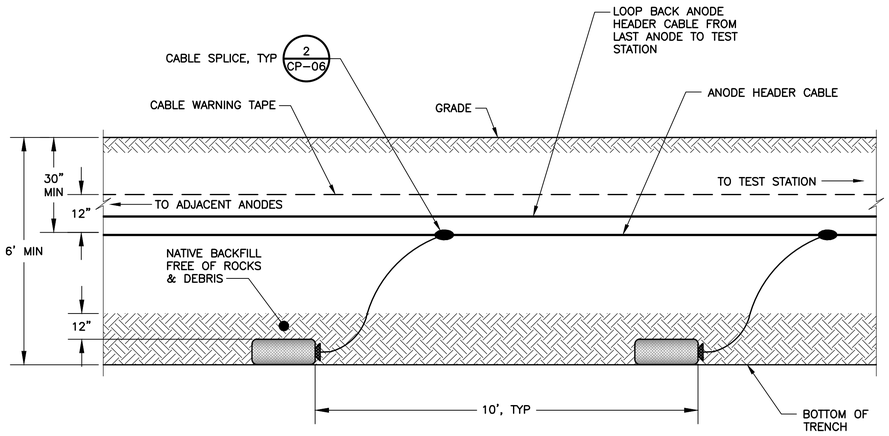
DATE 7/8/2025
DESIGN M. TAN
DRAWN T. TRAN
CHECKED J. RENTERIA

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85837 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

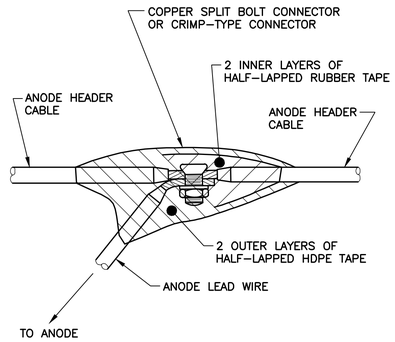
SCALE AS SHOWN
PROJECT NUMBER 91094009
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
SHEET CODE: CP–05
SHEET NUMBER: 35



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

USERNAME: TungTran 7/11/2025 4:13 PM
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DOCUMENT NUMBER: WAE-CP-9109-86790

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

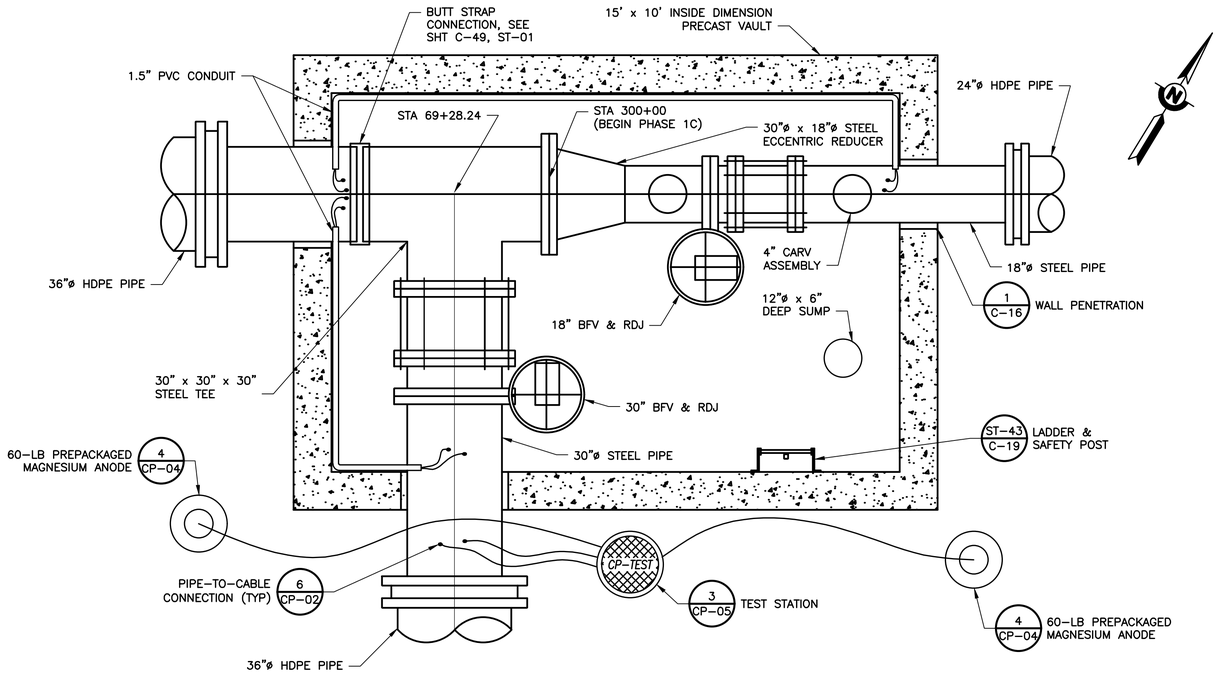
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — MATTHEW TAN — No. 85837 — CIVIL — STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

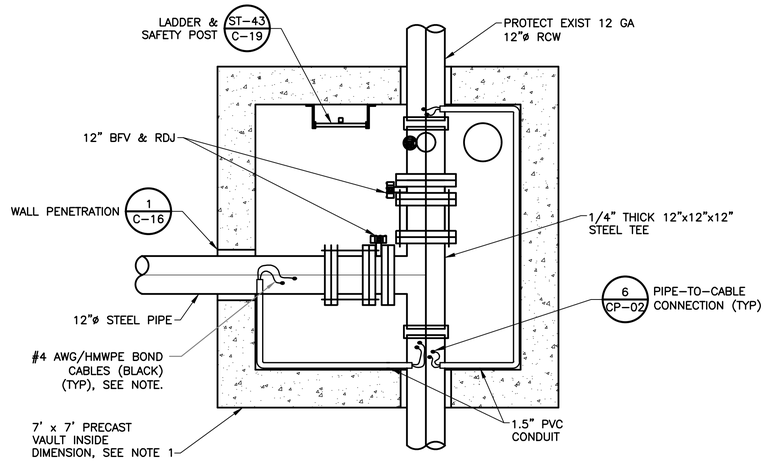
SCALE: AS SHOWN
VERIFY SCALES: 0 — 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 91094009
SHEET CODE: CP-06
SHEET NUMBER: 36



DETAIL 2 CP-07 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 CP-07 PHASE 1C CONNECTION TO EXIST 12" RCW VAULT

SCALE: 1" = 2'

DOCUMENT NUMBER: WAE-CP-9109-66387

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

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

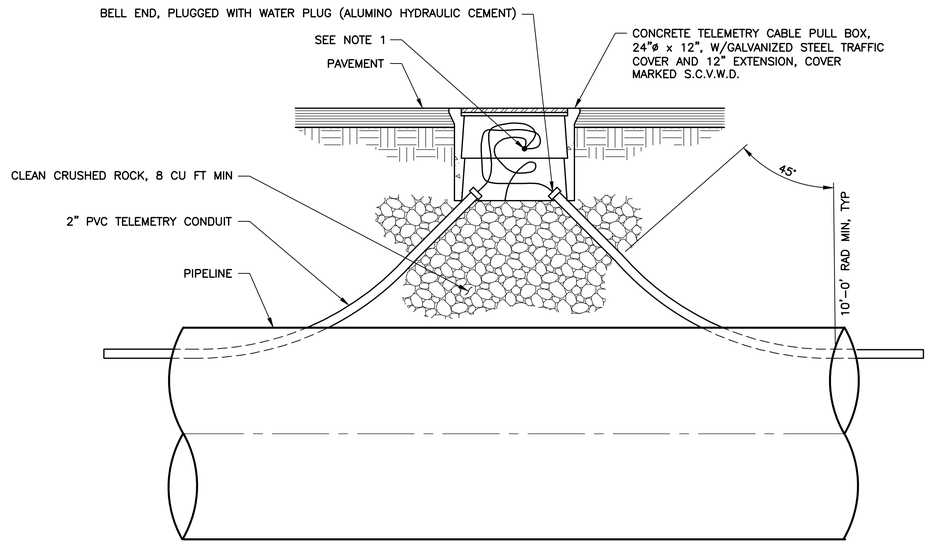
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85537 CIVIL STATE OF CALIFORNIA
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

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-07
SHEET NUMBER: 37



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

ST-105 TYP

SURFACE TELEMETRY CABLE PULL BOX DETAILS

SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025
DESIGN M. TAN
DRAWN J. BAUTISTA
CHECKED J. RENTERIA

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER MATTHEW TAN No. 85937 CIVIL STATE OF CALIFORNIA

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C

STANDARD DETAIL – SURFACE TELEMETRY CABLE PULL BOX

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: E-01

SHEET NUMBER: 38

DOCUMENT NUMBER: WAE-E-9109-86792

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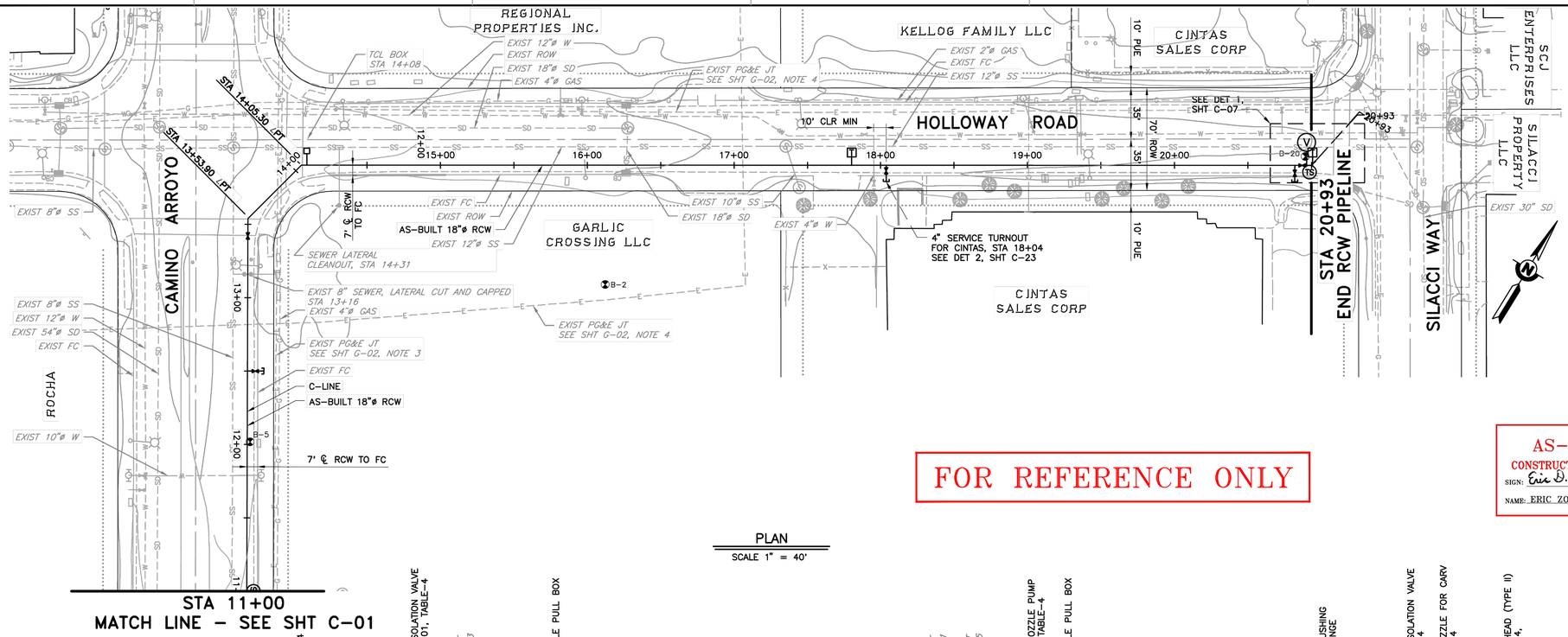
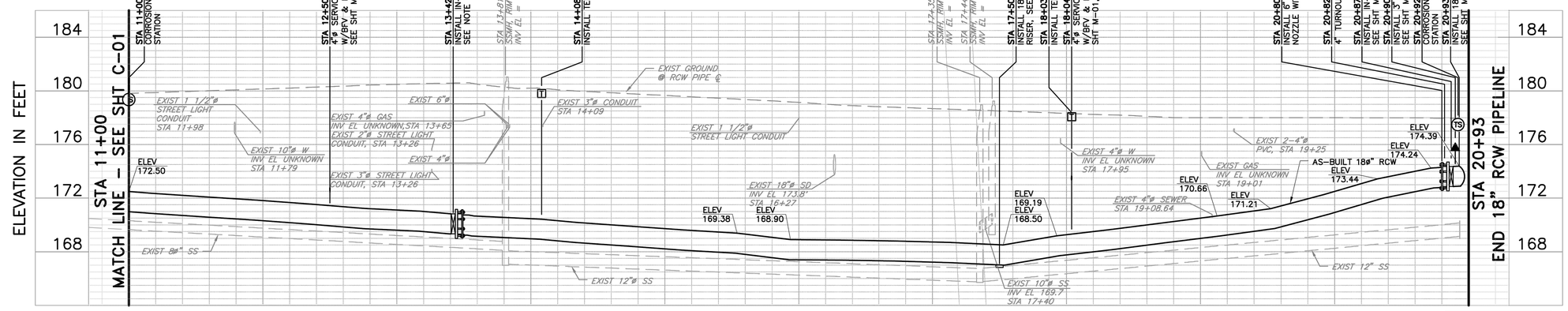


PLAN
SCALE 1" = 40'



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

FOR REFERENCE ONLY

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

REV	DESCRIPTION	DATE	APPR.
AB	1. AS-BUILT	7/15	EZ

REFERENCE INFORMATION AND NOTES
1. BURIED ISOLATION VALVES SHALL BE INSTALLED WITH STEM EXTENTION, VALVE BOX, TRAFFIC COVER AND VALVE POSITION INDICATOR (TYPICAL ALL ISOLATION VALVES).

DATE: JUN 2014
DESIGN: S. COHN
DRAWN: P. KEY
CHECKED: L. ORTIZ

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER FRED HOWARD
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
CIVIL
STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

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

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-02 AB
SHEET NUMBER: 7 OF 39

DOCUMENT NUMBER: WAE-C-9109-53414

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

DATE: 7/8/2025
DESIGN: –
DRAWN: –
CHECKED: –

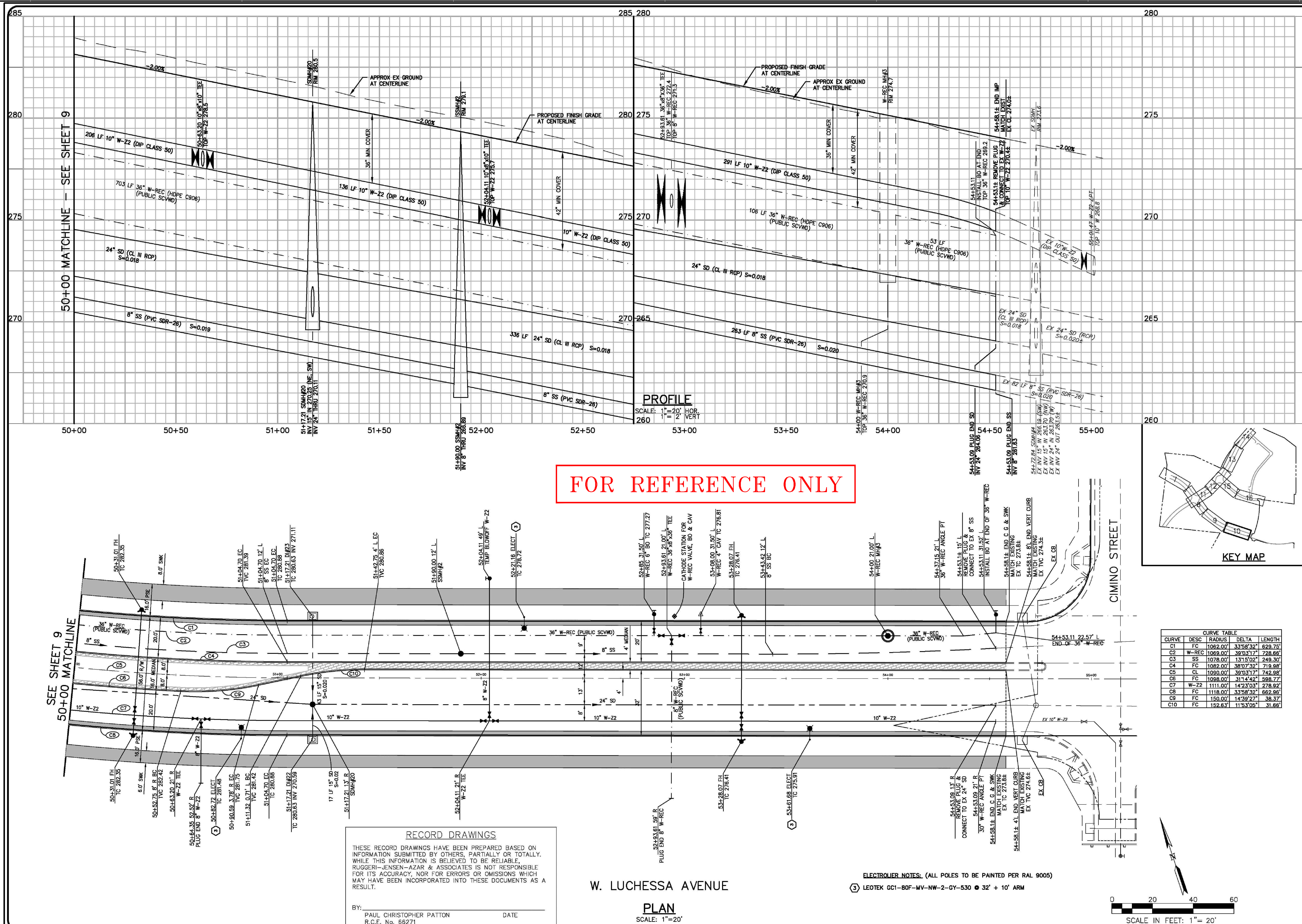
ENGINEERING CERTIFICATION
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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
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: R-01
SHEET NUMBER: 39

DOCUMENT NUMBER: WAE-R-9109-86793



CURVE TABLE				
CURVE	DESC	RADIUS	DELTA	LENGTH
C1	FC	1062.00'	33°58'32"	629.75'
C2	W-REC	1069.00'	39°03'17"	728.66'
C3	SS	1078.00'	13°15'02"	249.30'
C4	FC	1082.00'	38°07'32"	719.98'
C5	CL	1090.00'	39°03'17"	742.98'
C6	FC	1098.00'	31°14'42"	598.77'
C7	W-Z2	1111.00'	14°23'03"	278.92'
C8	FC	1118.00'	33°58'32"	662.96'
C9	FC	150.00'	14°39'27"	38.37'
C10	FC	152.63'	11°53'05"	31.66'

RECORD DRAWINGS

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BY: ______________________ DATE

PAUL CHRISTOPHER PATTON
R.C.E. No. 66271
RUGGERI-JENSEN-AZAR & ASSOCIATES

RUGGERI-JENSEN-AZAR
ENGINEERS • PLANNERS • SURVEYORS
8055 CAMINO ARROYO GILROY, CA 95020
PHONE: (408) 848-0300 FAX: (408) 848-0302

RECORD DRAWINGS
WEST LUCHESSA AVENUE - 50+00 TO CIMINO STREET
GLEN LOMA RANCH - PHASE 1A
GILROY, CALIFORNIA
FOR: STANDARD PACIFIC HOMES

SCALE 1"=20' H 1"=2' V
DATE OCT 2016

SHEET 10 OF 34 SHEETS
JOB NO. 102009

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		Valley Water	SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C	AS SHOWN	91094009
					DESIGN –			36" RCW AS-BUILT	VERIFY SCALES: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: R-02
					DRAWN –					SHEET NUMBER: 40
					CHECKED –	ENGINEER DATE				

DOCUMENT NUMBER: WAE-R-9109-86794

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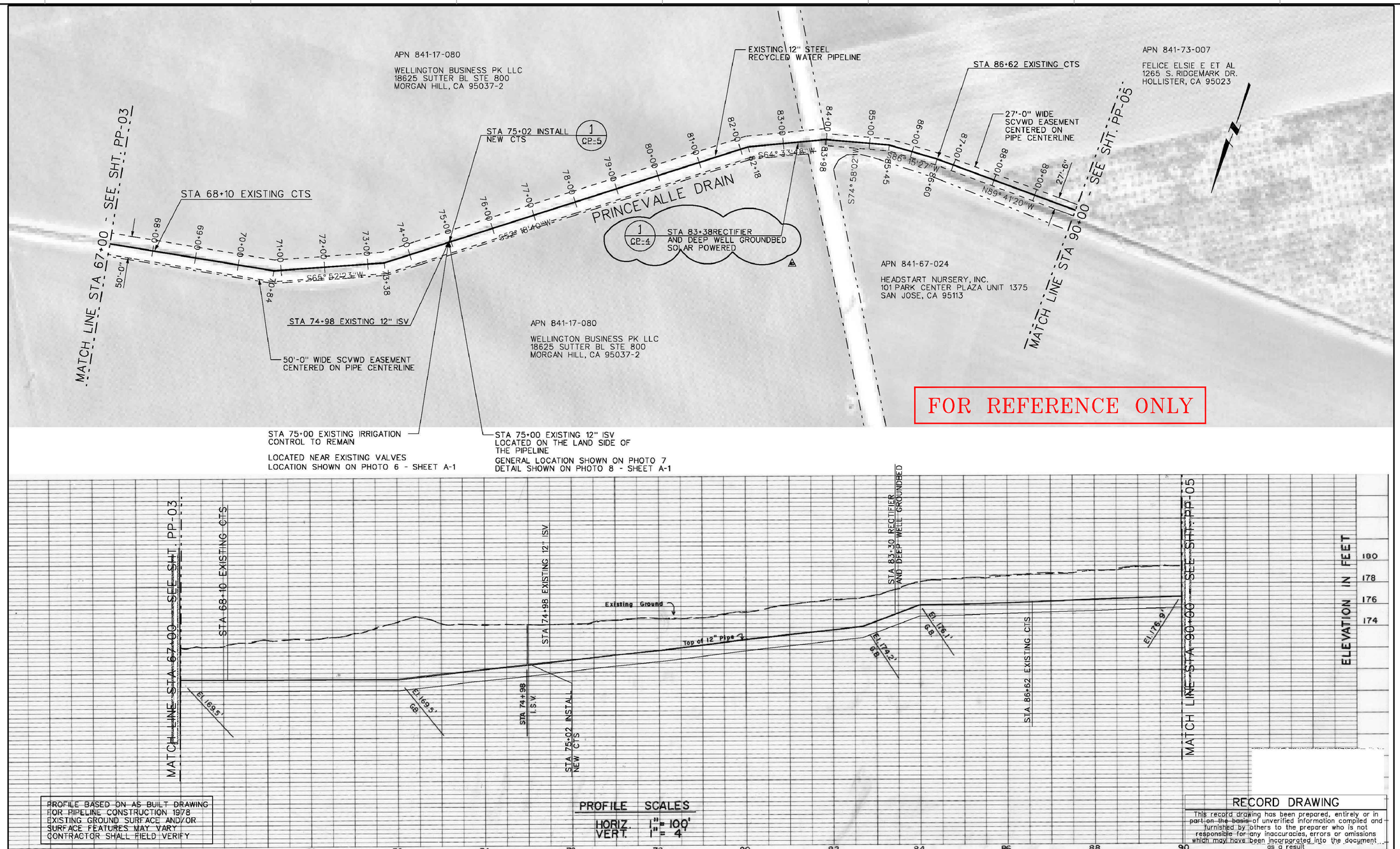


PROFILE BASED ON AS BUILT DRAWING FOR PIPELINE CONSTRUCTION 1978
EXISTING GROUND SURFACE AND/OR SURFACE FEATURES MAY VARY
CONTRACTOR SHALL FIELD VERIFY

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

REV	DATE	BY	DESCRIPTION
	11/02	NI	CONFORMED DRAWING
1	10/02	NI	ADDENDUM NUMBER 2
REV	DATE	BY	DESCRIPTION

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

WARNING 0 ½ 1 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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

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

RECOMMENDED
MONTGOMERY WATSON HARZA — R. P. E. NO. 35819 — DATE 9-27-02

MWH 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

DOCUMENT NUMBER: WAE-R-9109-86795

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 7/8/2025
DESIGN –
DRAWN –
CHECKED –

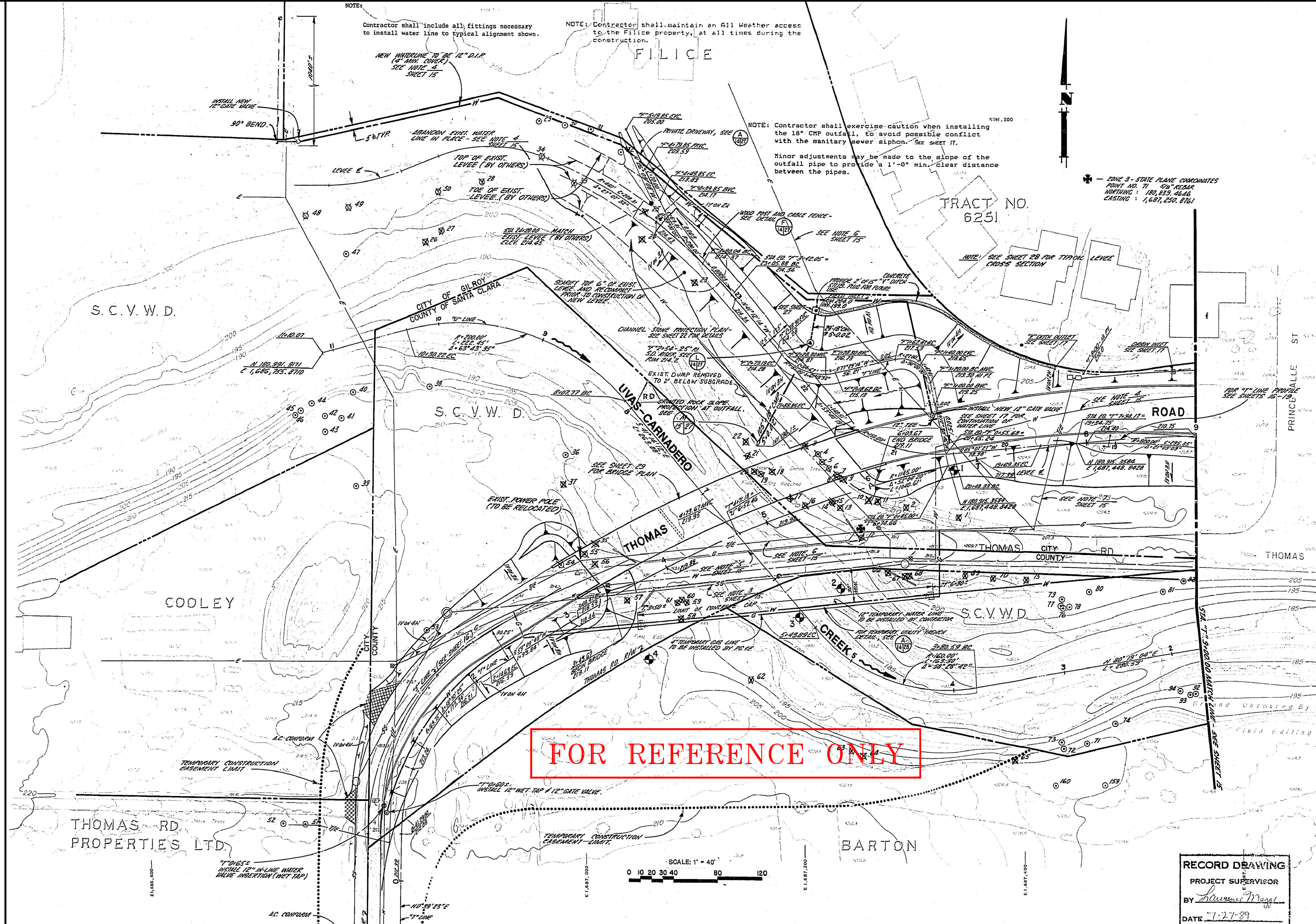
ENGINEERING CERTIFICATION
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

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

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: R-03
SHEET NUMBER: 41



LEGEND

EXISTING	PROPOSED	DESCRIPTION
		MATCH LINE
		CENTERLINE
		ROADWAY RIGHT-OF-WAY
		PROPERTY LINE
		CREEK CENTERLINE ("U" LINE)
		TEMPORARY COUNTOUR (DETOUR ROAD)
		P.C.C. CURB AND GUTTER
		A.C. BERM
		P.C.C. SIDEWALK
		SLOPED BANK
		TEMPORARY SLOPED BANK (DETOUR ROAD)
	0.025	SLOPE GRADE
		DIRECTION OF FLOW
		EXIST. TREE / TREE TO BE REMOVED
W	W	WATER LINE / VALVE
SS		SANITARY SEWER LINE
		SANITARY MANHOLE
		SANITARY LIFT STATION
		PAVEMENT TO BE REMOVED
		FIELD INLET
		OUTFALL RISER
	R26(A)(S)	SIGN / TYPE (REF.: CALTRANS STD. TRAFFIC MANUAL FOR ALL STRIPING & SIGNING)
		ELECTROLIER
		LOCATION OF SOIL BORING

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
TOB	TOP OF BANK
TD	TOP OF BRIDGE DECK
TB	TOP OF A.C. BERM
PV	PAVEMENT
"T" LINE	THOMAS RD. ℄
N.I.C.; N/C	NOT IN CONTRACT
"P" LINE	PRINCEVALLE ST. ℄
"U" LINE	UVAS CREEK ℄
"S" LINE	PHASE I THOMAS RD. ℄ (STA. "T" 99+41.29 TO "T" 3+08.47)
"F" LINE	LEVEE BASE LINE (STA. "T" 6+74.66 TO FILICE PROPERTY)
T.O.S.P.	TOP OF STONE PROTECTION

TREE NO.	DESCRIPTION	REMARKS
1	5" & 6" Oak	To Be Removed
2	6" & 9" Oak	To Be Removed
3	13" Eucalyptus	To Be Removed
4	6" Eucalyptus	To Be Removed
5	9" Eucalyptus	To Be Removed
6	8" & 11" Eucalyptus	To Be Removed
7	11" Eucalyptus	To Be Removed
8	11" Eucalyptus	To Be Removed
9	13" Eucalyptus	To Be Removed
10	5 - 8" Eucalyptus	To Be Removed
11	13" Eucalyptus	To Be Removed
12	13" Eucalyptus	To Be Removed
13	5 - 8" Eucalyptus	To Be Removed
14	9" Eucalyptus	To Be Removed
15	8" Eucalyptus	To Be Removed
16	3 - 16" Black Walnut	To Be Removed
17	3 - 30" Eucalyptus	To Be Removed
18	19" Eucalyptus	To Be Removed
19	11" Eucalyptus	To Be Removed
20	17" Eucalyptus	To Be Removed
21	11" Eucalyptus	To Be Removed
22	28" Black Walnut	To Be Removed
23	30" English Walnut	To Be Removed
24	22" English Walnut	To Be Removed
25	16" English Walnut	To Be Removed

TREE NO.	DESCRIPTION	REMARKS
26	2 - 8" Oak	To Be Removed
27	10" Oak	To Be Removed
28	16" English Walnut	To Be Removed
29	19" English Walnut	To Remain
30	26" English Walnut	To Remain
31	17" English Walnut	To Remain
32	16" English Walnut	To Remain
33	3 - 10" English Walnut	To Be Removed (N.I.C.)
34	6" Pine	To Be Removed (N.I.C.)
35	9" Tree	To Be Removed
36	12" Oak	To Remain
37	9" Oak	To Be Removed
38	15" Black Walnut (Base)	To Remain
39	64" Oak	To Remain
40	38" Oak	To Remain
41	10" & 16" Oak	To Remain
42	12" Oak	To Remain
43	2 - 12" Oak	To Remain
44	6" Oak	To Remain
45	11" Oak	To Remain
46	9" Oak	To Remain
47	3 - 38" Sycamore	To Remain
48	23" English Walnut	To Be Removed (N.I.C.)
49	29" English Walnut	To Be Removed (N.I.C.)
50	22" English Walnut	To Be Removed

TREE NO.	DESCRIPTION	REMARKS
51	5 - 8" Pine	To Remain
52	9" Pine	To Remain
53	9" Oak	To Remain
54	8" Oak (Base)	To Be Removed
55	6" Oak	To Be Removed
56	6" & 2 - 7" Oak	To Be Removed
57	7" Oak	To Be Removed
58	2 - 17" & 2 - 20" Oak	To Be Removed
59	17" & 20" Sycamore	To Be Removed
60	10" Sycamore	To Be Removed
61	12" Sycamore	To Be Removed
62	36" Oak	To Be Removed
63	9" Oak	To Be Removed
64	9" Oak	To Be Removed
65	13" Oak	To Be Removed
66	9" Oak	To Be Removed
67	8" Oak	To Be Removed
68	10" Oak	To Be Removed
69	20" English Walnut	To Be Removed
70	20" English Walnut	To Be Removed
71	2 - 30" Oak	To Remain
72	18" Oak	To Remain
73	22" Oak	To Remain
74	9" Oak	To Remain
75	13" Black Walnut (Dead)	To Be Removed

TREE NO.	DESCRIPTION	REMARKS
76	8" & 11" Sycamore	To Remain
77	2 - 9" Sycamore	To Remain
78	18" Sycamore	To Remain
79	2 - 10" Sycamore	To Remain
80	60" Eucalyptus	To Remain
81	36" & 60" Sycamore	To Remain
82	18" Black Walnut	To Remain
83	2 - 25" & 20" Sycamore	To Remain
84	2 - 10" & 17" Black Walnut	To Remain
85	2 - 24" & 36" Sycamore	To Remain
86	10", 13" & 17" Oak	To Remain
87	30" Oak	To Remain
88	18" Oak	To Remain
89	30" Oak	To Remain
90	12" Oak	To Remain
91	28" Oak (Base)	To Remain
92	22" Sycamore	To Remain
93	30" Sycamore	To Remain
94	18", 21" & 24" Sycamore	To Remain
95	11", 19" & 31" Sycamore	To Remain
96	8" Black Walnut	To Remain
97	22" Sycamore	To Remain
98	2 - 10" Black Walnut	To Remain
99	24" Sycamore	To Remain
100	9" Black Walnut	To Remain

RECORD DRAWING
PROJECT SUPERVISOR
BY Lawrence Maggi
DATE 7-27-89

APPROVED:
DATE: March 29, 1988
Norman S. Allen
NORMAN S. ALLEN – R.C.E. 26092
CITY ENGINEER – CITY OF GILROY
REG. EXPIRES: 3-31-90

DRWN.: TL
CHKD.: SDL, DVR
DEPT.: CIVIL

R+G RUTH AND GOING, INC.
Civil Engineering Land Surveying
2180 LUNDY AVE. SAN JOSE, CA. 95131 (408) 943-1840
JOB # 17273-130

Robert A. Smith
ROBERT A. SMITH RCE 20821 EXP. 9-30-89
DATE: 5-24-88

Santa Clara Valley Water District

ACCEPTED BY DISTRICT: DATE 5/25/88
PROJECT ENGINEER R.C.E. NO. 25413
DIVISION ENGINEER R.C.E. NO. 15851

REGISTERED PROFESSIONAL ENGINEER CHARLES B. WILSON No. 15851 Exp 6-30-93 CIVIL STATE OF CALIFORNIA

REVISION	DATE	DESCRIPTION	BY	BY

RECORD DRAWING REVISION

DESIGNED:
DRAWN:
CHECKED:

THOMAS ROAD AT UVAS CREEK
GENERAL SITE PLAN

SUBMITTED: DATE APPROVED
SCALE AS SHOWN
SPEC. No.
SHEET 14
FILE No.

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

DATE 7/8/2025
DESIGN –
DRAWN –
CHECKED –

ENGINEERING CERTIFICATION
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

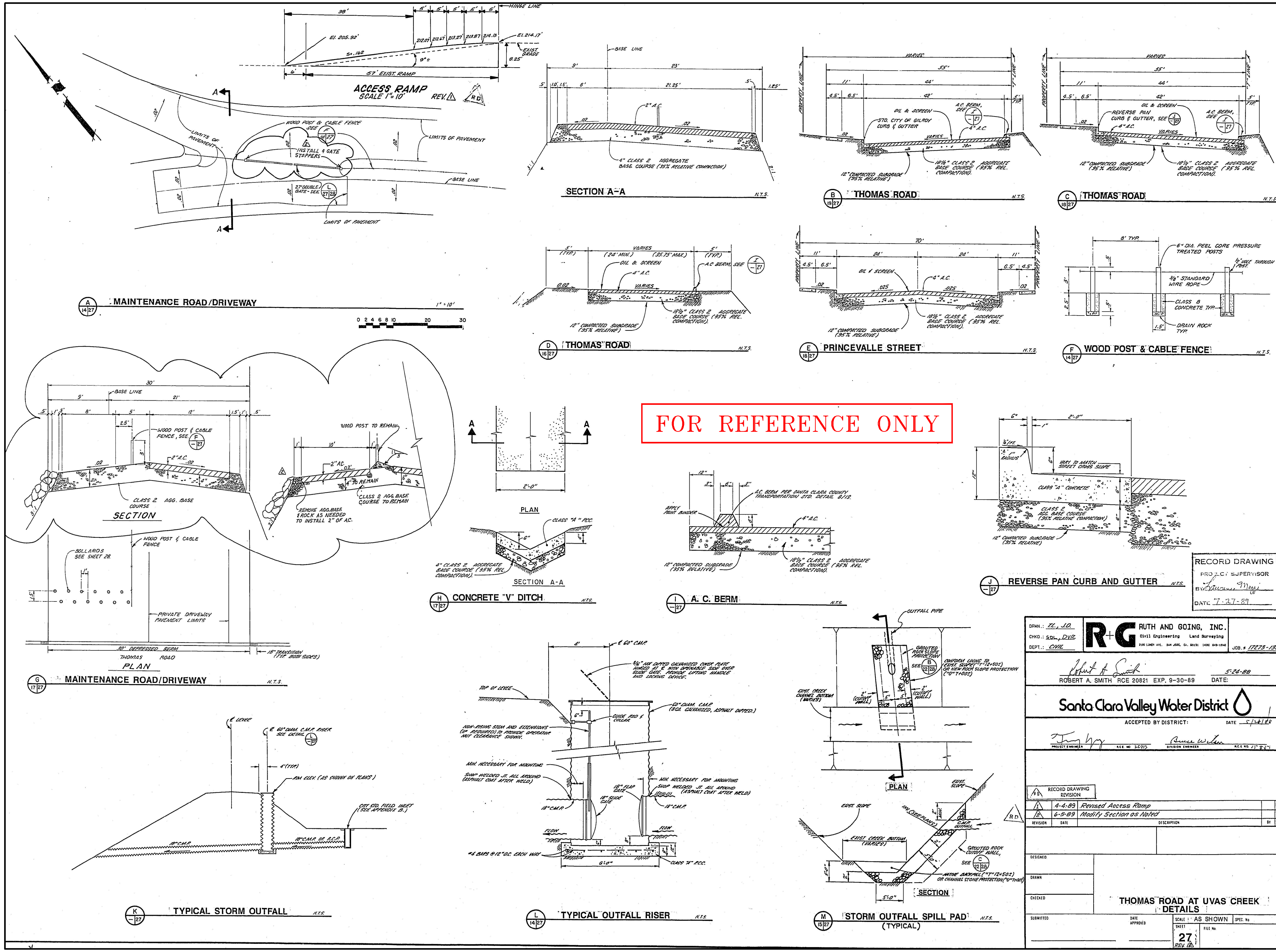
PROJECT NAME AND SHEET DESCRIPTION:
SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C
THOMAS ROAD BRIDGE AT UVAS CREEK AS-BUILT I

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: R-04
SHEET NUMBER: 42

DOCUMENT NUMBER: WAE-R-9109-86796

USERNAME: TungTran 7/11/2025 1:29 PM
FILENAME: K:\Active Projects\MP-91094009\SCRWP\SHEETS\REBID\SET 1\R-04.dwg

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



REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

DATE	7/8/2025
DESIGN	–
DRAWN	–
CHECKED	–

ENGINEERING CERTIFICATION

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

SOUTH COUNTY RECYCLED WATER PIPELINE PHASE 1C

THOMAS ROAD BRIDGE AT UVAS CREEK AS-BUILT II

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: R-05

SHEET NUMBER: 43

DOCUMENT NUMBER: WAE-R-9109-86797

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