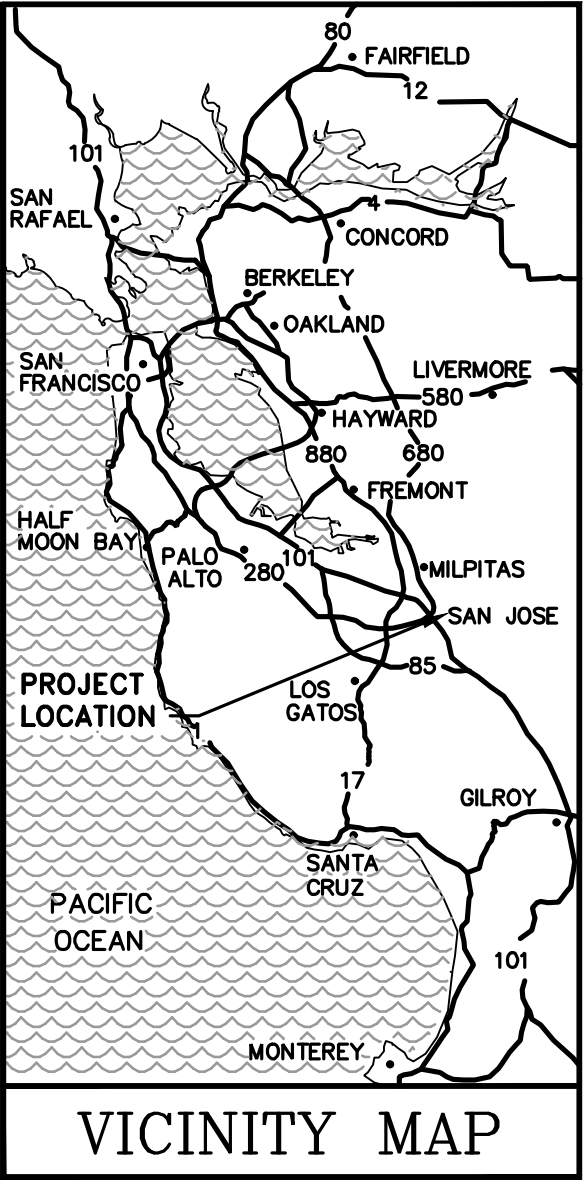
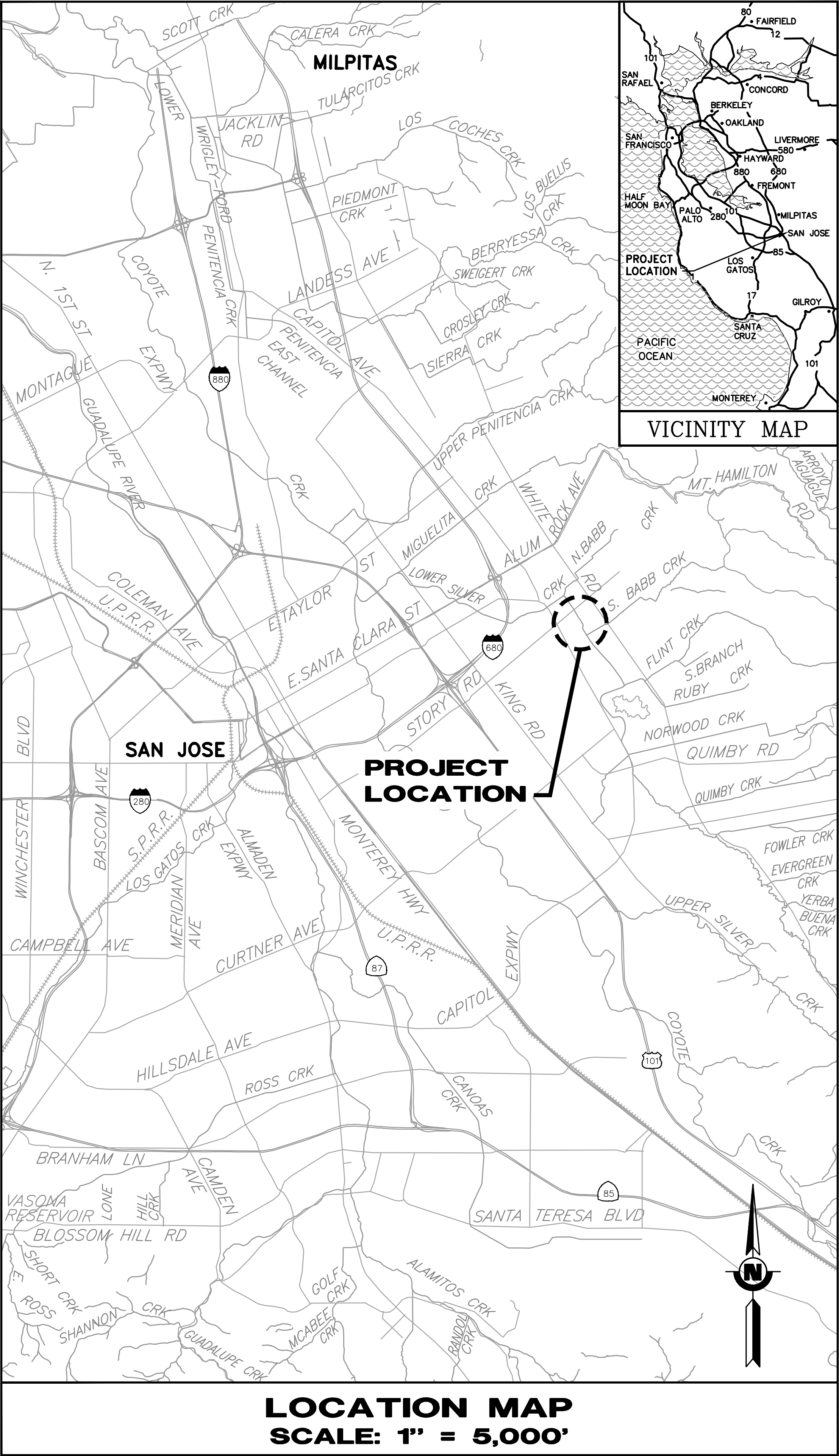


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DOCUMENT NUMBER: SOB_CY-G-4013-84731



MAP AND CONSTRUCTION PLAN

FOR

SOUTH BABB CREEK

FLOOD MITIGATION PROJECT

SAN JOSE, CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT



PREPARED BY:

Javi Valencia

04/04/2025

JAVIER VALENCIA
ASSOCIATE ENGINEER - CIVIL
DESIGN AND CONSTRUCTION UNIT 2
WATERSHEDS DESIGN AND CONSTRUCTION DIVISION

DATE

APPROVED BY:

Karl Neuman

04/04/2025

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

DATE



Bhavi Yerrapotu

04/04/2025

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

DATE

ACCEPTED BY:

Jennifer Codianne

04/04/2025

JENNIFER CODIANNE
DEPUTY OPERATING OFFICER
WATERSHEDS OPERATIONS AND MAINTENANCE
DIVISION DEPUTY'S OFFICE

DATE

CONTRACT NUMBER
C-0716
PROJECT NUMBER
62084001
SHEET CODE:
G-01
SHEET NUMBER: 1
TOTAL SHEETS: 20

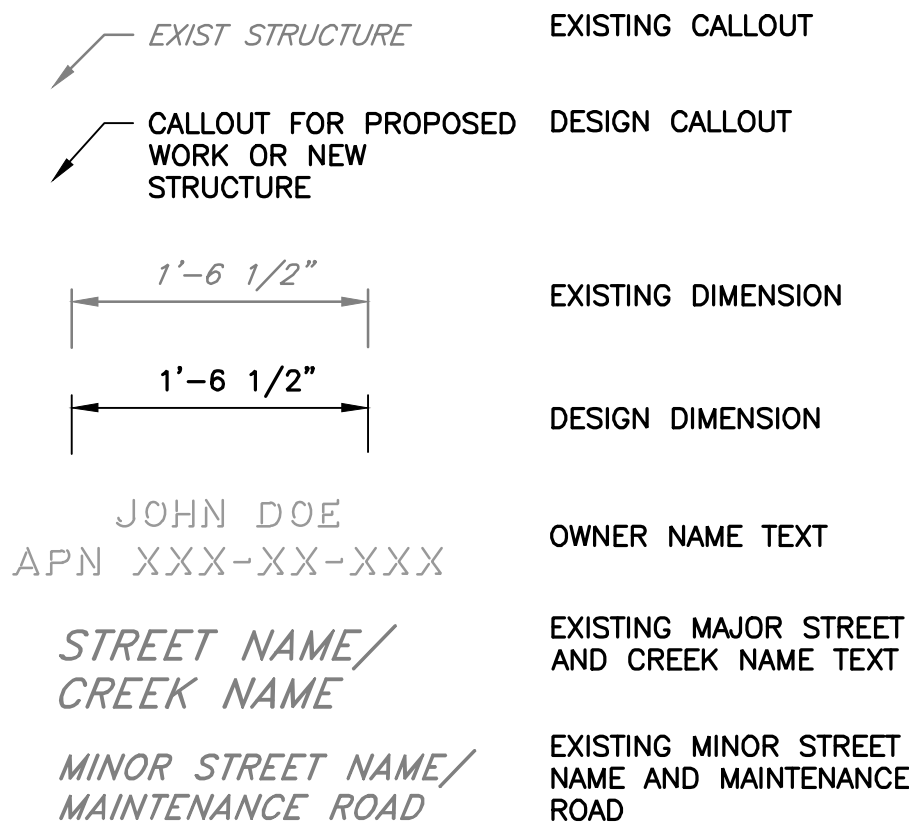
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ABBREVIATIONS

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

GENERAL TEXT



TITLE	
HEADER	HEADER
DATA	DATA

GENERAL TABLE

SYMBOLS LEGEND

EXISTING	PROPOSED

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

	ELECTROLIZER
	ELECTROLIZER
	GUY WIRE
	STORM DRAIN OUTFALL
	FLOW SYMBOL

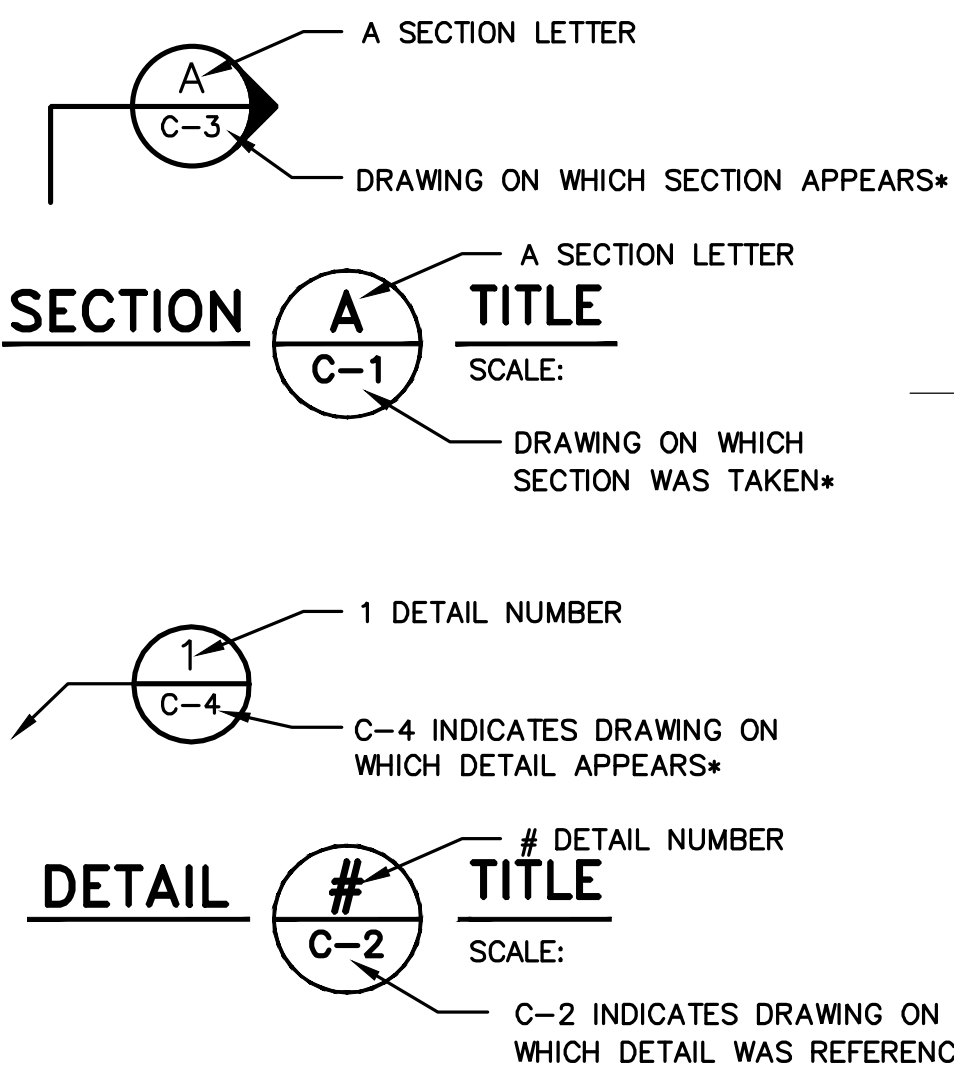
LINE TYPE LEGEND

EXISTING	PROPOSED

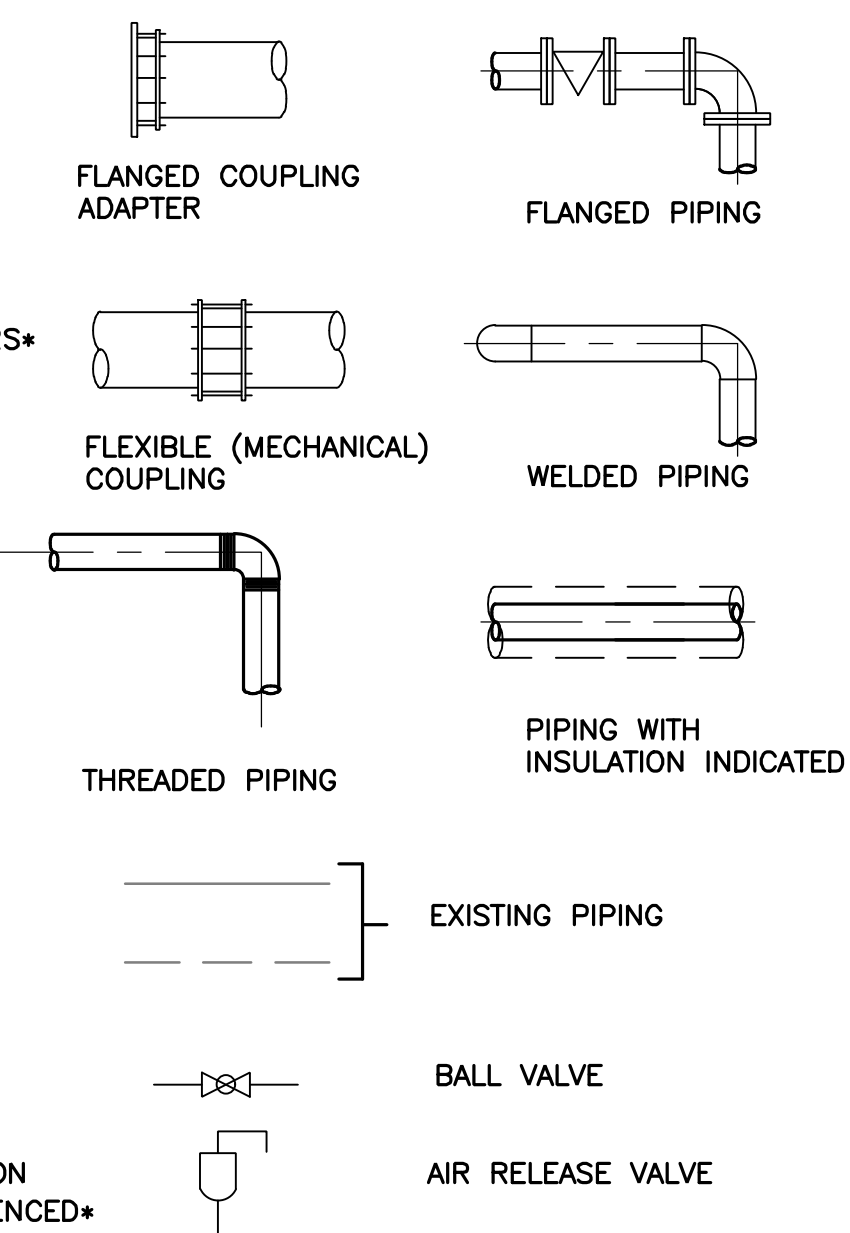
SYMBOLS LEGEND

DETAIL AND SECTION DESIGNATION

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



PIPE SYMBOLS



REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 04/07/25	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN J. VALENCIA		
DRAWN C. SARMIENTO	CIVIL	
CHECKED K. NEUMAN	ENGINEER	DATE



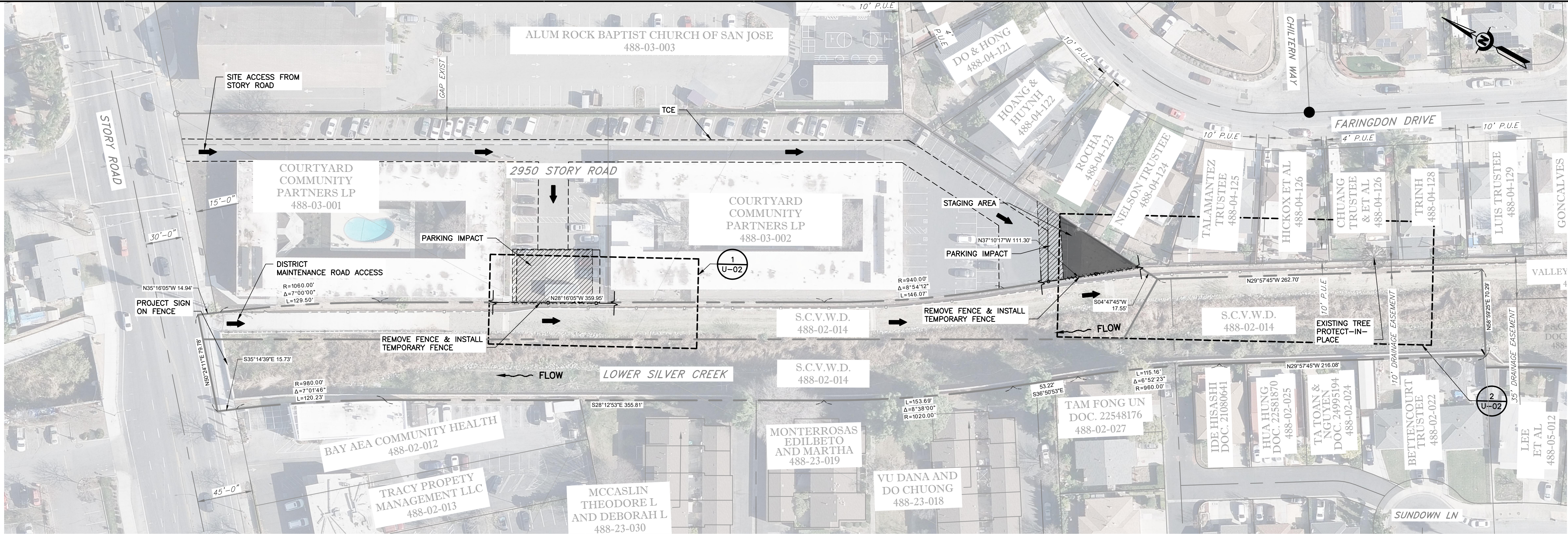
PROJECT NAME AND SHEET DESCRIPTION: SOUTH BABB CREEK FLOOD MITIGATION PROJECT ABBREVIATIONS, LEGEND & SYMBOLS		SCALE AS SHOWN 0 1" VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 62084001 SHEET CODE: G-02 SHEET NUMBER: 2
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DOCUMENT NUMBER: SOB_CY-G-4013-84733

1



GENERAL NOTES

- 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.
- LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE BASED ON INFORMATION FROM THE UTILITY AND ARE TO BE CONSIDERED AS APPROXIMATE ONLY. SEE SPECIFICATIONS FOR VARIOUS UTILITIES CONTACT INFORMATION.
- PRIOR TO PERFORMING ANY WORK IN THE VICINITY OF EXISTING UNDERGROUND UTILITIES AND OVERHEAD UTILITIES, THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS AND TAKE PROPER PRECAUTIONS TO AVOID ANY DAMAGE TO THEM. CALL UNDERGROUND SERVICE ALERT AT (800) 642-2444 AT LEAST 48 HOURS IN ADVANCE FOR LOCATION.
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- ALL REFERENCES MADE TO RIGHT OR LEFT, AND ALL CROSS SECTIONS SHOWN ON PLAN ARE VIEWED LOOKING UPSTREAM.
- NOTIFY THE CITY OF SAN JOSE AND APARTMENT PROPERTY MANAGER 48 HOURS PRIOR TO CONSTRUCTION IN THE VICINITY OF EXISTING CITY FACILITIES.
- ALL TRAFFIC CONTROL DEVICES, SUCH AS CONSTRUCTION SIGNS, BARRICADES, LIGHTS, AND DELINEATORS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE MUTCD CALIFORNIA SUPPLEMENT. ALL CONE SPACING AND TAPER SPACING AND SIGN SPACING SHALL BE IN ACCORDANCE WITH THE MUTCD CALIFORNIA SUPPLEMENT.
- SPECIAL SIGNS SHALL BE IN 4" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND. MOUNT SPECIAL SIGNS ON TYPE II BARRICADE.
- FIRE HYDRANTS SHALL NOT BE OBSTRUCTED BY FENCE, EQUIPMENT, K-RAIL TRAFFIC CONTROL DEVICES OF ANY KIND.
- MAINTAIN 12' MIN. TRAFFIC LANES UNLESS OTHERWISE SPECIFIED OR APPROVED BY THE CITY OF SAN JOSE.
- KEEP DRIVEWAYS OPEN AT ALL TIMES.
- CONTRACTOR SHALL NOT STORE, OPERATE, OR HANDLE ANY EQUIPMENT OR MATERIALS WITHIN PRIVATE OR PUBLIC OWNED AREAS AFTER WORK HOURS UNLESS CONTRACTOR OBTAINS PRIOR APPROVAL FROM DESIGNATED OWNER(S).
- OPEN TRENCH SHALL BE COVERED AFTER WORK HOURS.
- CONTRACTOR SHALL PROVIDE CERTIFIED FLAGGERS WHEN OPERATING AND HAULING EQUIPMENT AND MATERIALS WITHIN CITY ROADS IMMEDIATELY ADJACENT TO THE PROJECT AND APARTMENT BUILDING PARKING LOT.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL FROM THE CITY FOR HIS OR HER PROPOSED TRUCK ROUTE/HAUL PLAN FOR THE PROJECT.
- REFER TO SPECIFICATION APPENDIX C FOR A COPY OF THE LATEST CITY OF SAN JOSE ENCROACHMENT PERMIT APPLICATION FORM. CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS STIPULATED IN THIS FORM.
- PRIOR TO ACCESSING CITY STREETS FOR MOBILIZATION OF THE PROJECT, CONTRACTOR SHALL COORDINATE WITH AND SUBMIT TO THE CITY A TRAFFIC CONTROL PLAN WHICH THE CITY MUST APPROVE WITH THEIR STAMPED CERTIFICATION.
- NO WORK THAT INTERFERES WITH PUBLIC TRAFFIC SHALL BE PERFORMED BEFORE 7 AM OR AFTER 5 PM, UNLESS CONTRACTOR OBTAINS PRIOR APPROVAL FROM THE CITY.
- CONTRACTOR MUST RE-STRIPE PARKING LOT AREA THAT ARE DAMAGED BY THE WORK.

SITE PLAN

SCALE: 1" = 40'

DESIGN NOTES

- SURVEY CONTROL INFORMATION
 - VERTICAL DATUM IS NAVD 88
 - HORIZONTAL DATUM IS NAD 83
 - CALIFORNIA COORDINATE SYSTEM IS CA ZONE 3
 - BENCH MARKS:
- SEE SHT S-01, FOR STRUCTURAL GENERAL NOTES

DRAWING INDEX

SHEET CODE	SHEET DESCRIPTION	SHEET NUMBER
GENERAL		
G-01	TITLE SHEET & PROJECT LOCATION	1
G-02	ABBREVIATIONS, LEGEND & SYMBOLS	2
G-03	STAGING AREA, GENERAL NOTES & DRAWING INDEX	3
G-04	SITE ACCESS AND FENCE REMOVAL	4
SURVEY		
VR-01	RIGHT-OF-WAY-MAP	5
VR-02	RIGHT-OF-WAY-MAP	6
V-01	SURVEY LAYOUT	7
V-02	SURVEY LAYOUT AND POINT TABLES	8
CIVIL		
C-01	CIVIL WORK PLAN	9
C-02	NEW TROUGH AND FLOODWALL MODIFICATION A: PLAN & PROFILE	10
C-03	TR-A LINE PLAN AND PROFILE	11
C-04	NEW TROUGH AND FLOODWALL MODIFICATION B: PLAN & PROFILE	12
C-05	TR-B LINE PLAN AND PROFILE	13
STRUCTURAL		
S-01	GENERAL STRUCTURAL NOTES, DESIGN NOTES & LIMITS OF PAYMENT	14
S-02	NEW TROUGH AND FLOODWALL MODIFICATION A: STRUCTURAL WORK PLAN	15
S-03	NEW TROUGH AND FLOODWALL MODIFICATION B: STRUCTURAL WORK PLAN	16
S-04	STRUCTURAL DETAILS	17
S-05	CHAIN LINK FENCE DETAILS	18
UTILITY		
U-01	UTILITY INFORMATION	19
U-02	DETAIL VIEWS FOR UTILITY INFORMATION	20

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 04/07/25	ENGINEERING CERTIFICATION
DESIGN J. VALENCIA	
DRAWN C. SARMIENTO	
CHECKED K. NEUMAN	
ENGINEER	

SANTA CLARA VALLEY WATER DISTRICT


PROJECT NAME AND SHEET DESCRIPTION:
SOUTH BABB CREEK FLOOD MITIGATION PROJECT
STAGING AREA, GENERAL NOTES & DRAWING INDEX

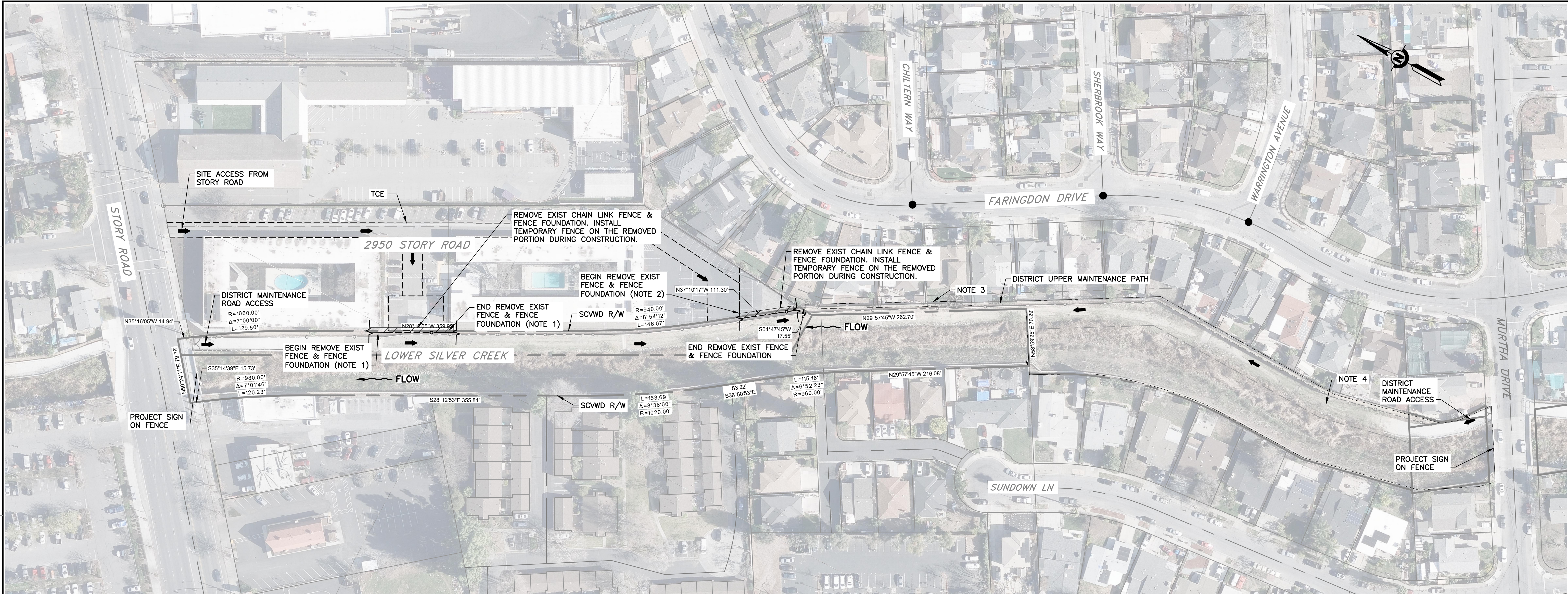
SCALE AS SHOWN	PROJECT NUMBER 62084001
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: G-03 SHEET NUMBER: 3

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DOCUMENT NUMBER: SOB_CY-G-4013-84734



- NOTES:
1. LIMITS OF CHAIN LINK FENCE REMOVAL SHALL BE $\pm 10'$ LONGER MEASURED FROM EACH END OF THE TROUGH. CONTRACTOR TO VERIFY EXISTING FENCE LOCATION.
 2. LIMITS OF CHAIN LINK FENCE REMOVAL SHALL BE UP TO THE NORTH LIMITS OF THE STAGING AREA. CONTRACTOR TO VERIFY EXISTING FENCE LOCATION.
 3. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT AS NECESSARY FOR EXIST CHAIN LINK FENCE AND PRIVATE PROPERTY FENCE AT THIS LOCATION.
 4. CONTRACTOR SHALL PERFORM SEDIMENT AND VEGETATION REMOVAL ALONG THE MAINTENANCE ROAD TO ALLOW EQUIPMENT ACCESS FROM MURTHA DRIVE.

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

DATE 04/07/25	ENGINEERING CERTIFICATION
DESIGN J. VALENCIA	
DRAWN C. SARMIENTO	
CHECKED K. NEUMAN	
ENGINEER	

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

**SOUTH BABB CREEK
FLOOD MITIGATION PROJECT**

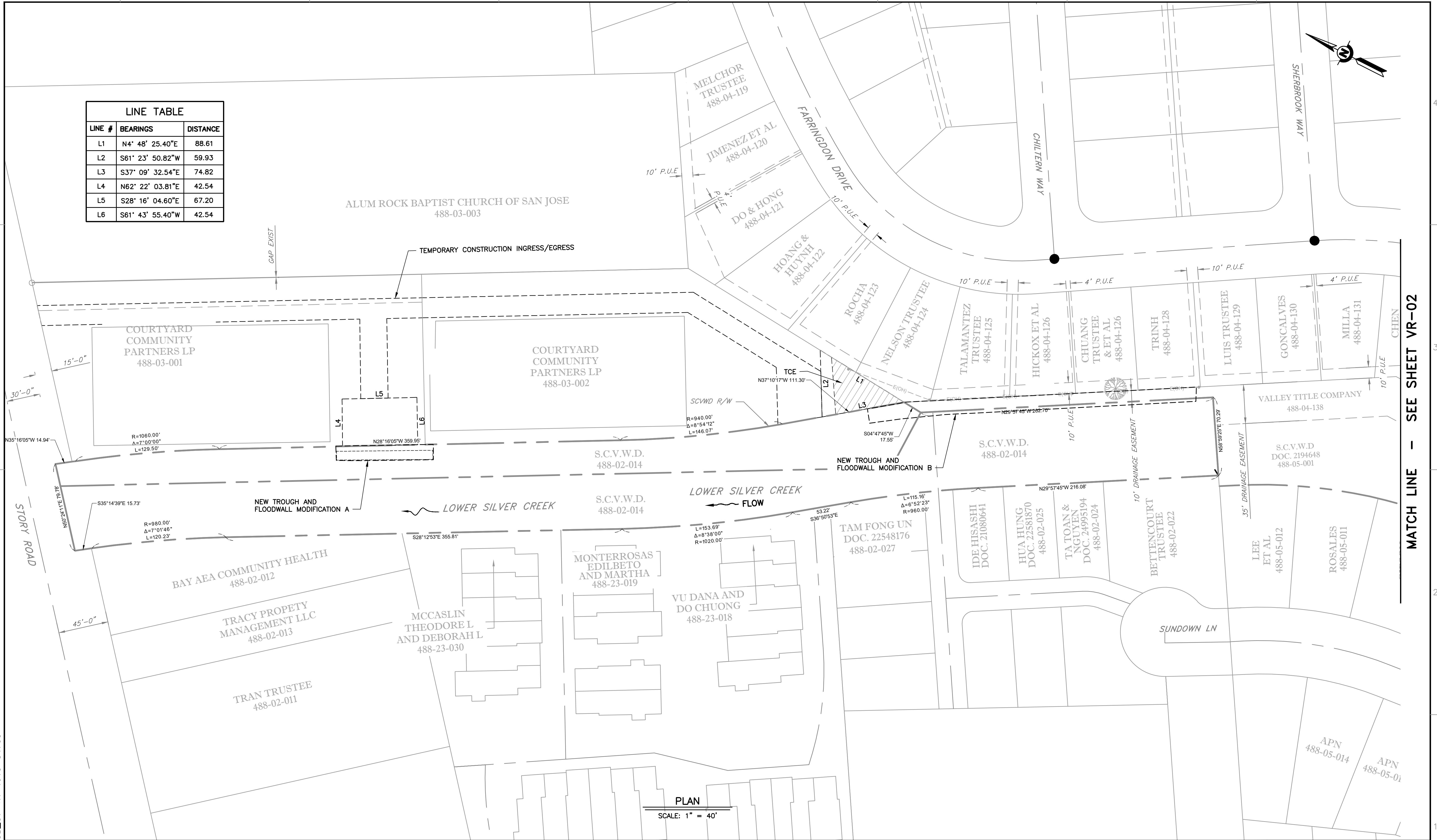
SITE ACCESS AND FENCE REMOVAL

SCALE AS SHOWN	PROJECT NUMBER 62084001
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: G-04
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DOCUMENT NUMBER: SOB_CY-VR-4013-84735

LINE TABLE		
LINE #	BEARINGS	DISTANCE
L1	N4° 48' 25.40"E	88.61
L2	S61° 23' 50.82"W	59.93
L3	S37° 09' 32.54"E	74.82
L4	N62° 22' 03.81"E	42.54
L5	S28° 16' 04.60"E	67.20
L6	S61° 43' 55.40"W	42.54



REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
					04/07/25	JESSICA DeMARTINI PLS 9095 STATE OF CALIFORNIA		SOUTH BABB CREEK FLOOD MITIGATION PROJECT RIGHT-OF-WAY-MAP	 VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	62084001 SHEET CODE: VR-01 SHEET NUMBER: 5
						ENGINEER	DATE			

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1
DOCUMENT NUMBER: SOB_CY-VR-4013-84736



REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					04/07/25	DESIGN J. VALENCIA DRAWN O. REYNOSO CHECKED J. DEMARTINI PROFESSIONAL LAND SURVEYOR JESSICA DeMARTINI PLS 9095 STATE OF CALIFORNIA ENGINEER		SOUTH BABB CREEK FLOOD MITIGATION PROJECT RIGHT-OF-WAY-MAP	AS SHOWN VERIFY SCALES  0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	62084001 SHEET CODE: VR-02 SHEET NUMBER: 6

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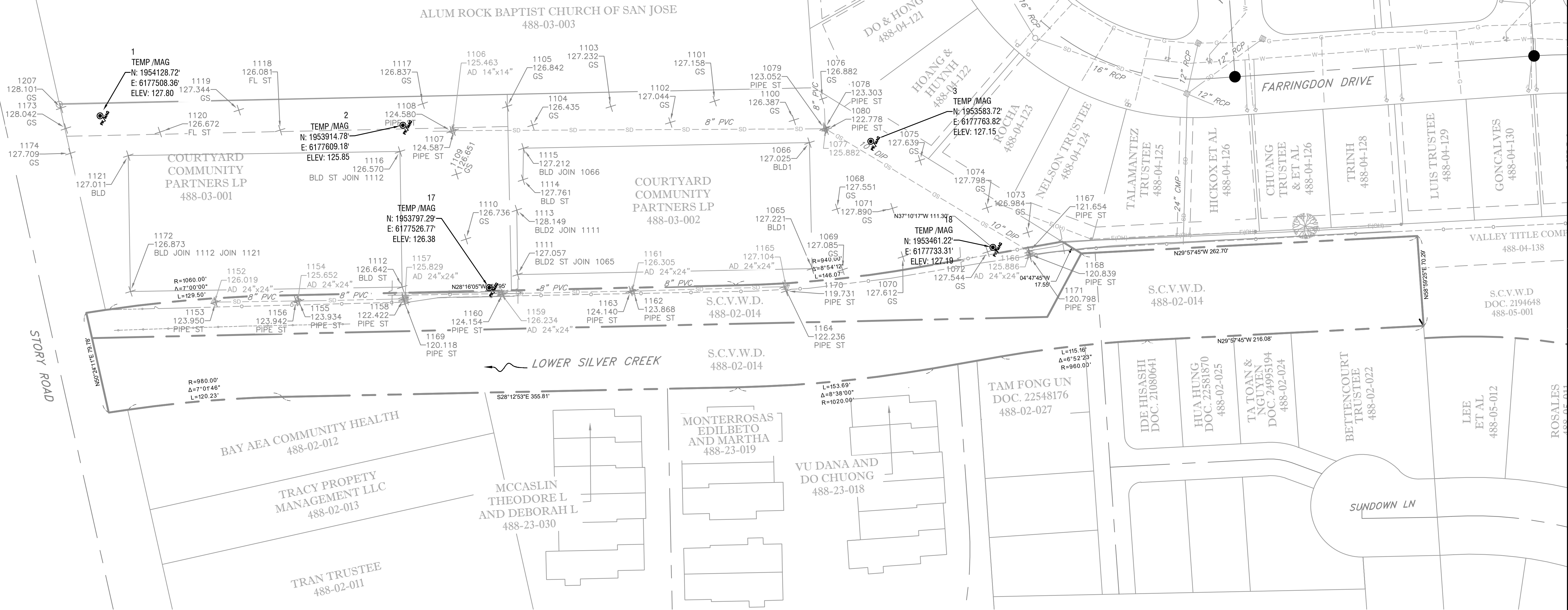
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DOCUMENT NUMBER: SOB_CY-V-4013-84737

1

POINT TABLE				
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING
1	TEMP /MAG	127.80'	1954128.72'	6177508.36'
2	TEMP /MAG	125.85'	1953914.78'	6177609.18'
3	TEMP /MAG	127.15'	1953583.72'	6177763.82'
17	TEMP /MAG	126.38'	1953797.29'	6177526.77'
18	TEMP /MAG	127.19'	1953461.22'	6177733.31'
215	BM215 (NOT SHOWN)	120.33'	1954197.42'	6175442.41'
217	BM217 (NOT SHOWN)	129.59'	1952602.50'	6178041.30'



PLAN

SCALE: 1" = 40'

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES	

DATE	ENGINEERING CERTIFICATION
04/07/25	
DESIGN	
J. VALENCIA	
DRAWN	
C. SARMIENTO	
CHECKED	
B. LUKEN	



SANTA CLARA VALLEY WATER DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:

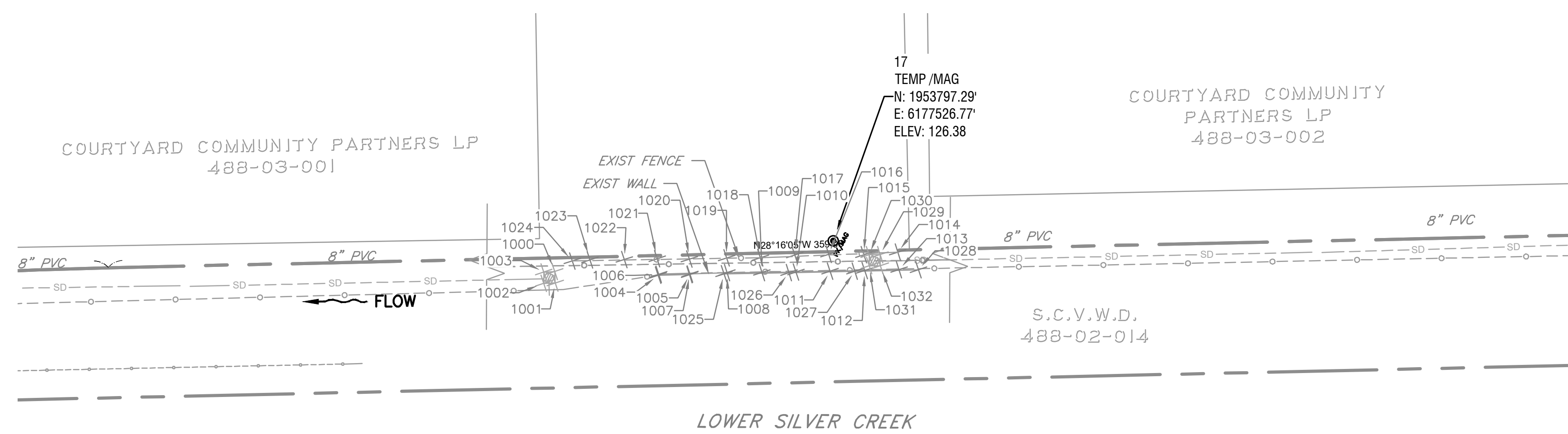
SOUTH BABB CREEK FLOOD MITIGATION PROJECT

SURVEY LAYOUT

SCALE AS SHOWN	PROJECT NUMBER 62084001
VERIFY SCALES	SHEET CODE: V-01
0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER: 7

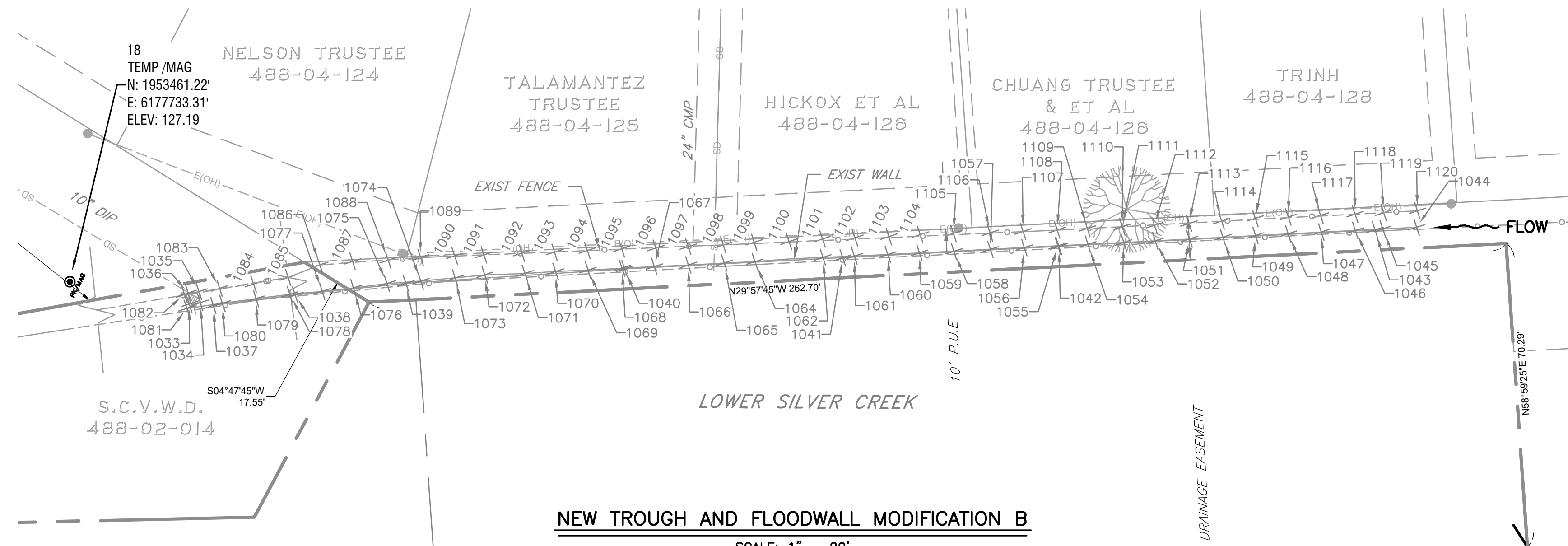
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NEW TROUGH AND FLOODWALL MODIFICATION A

SCALE: 1" = 20'



NEW TROUGH AND FLOODWALL MODIFICATION B

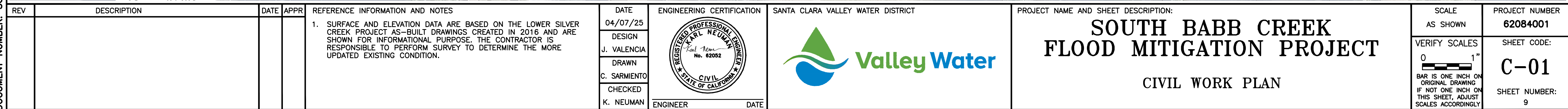
SCALE: 1" = 20'

POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	1953851.3160	6177491.3300	125.78	VLTW ST (STORM DRAIN N1)
1001	1953850.0000	6177489.0320	125.75	VLTW (STORM DRAIN N1)
1002	1953852.3180	6177487.7460	125.74	VLTW (STORM DRAIN N1)
1003	1953853.5100	6177490.0550	125.77	VLTW CLS (STORM DRAIN N1)
1004	1953829.6440	6177501.3870	129.22	WALL ST ANGLE PT
1005	1953823.2740	6177504.8150	129.25	WALL /CONSTRUCTION JOINT
1006	1953829.6380	6177501.6380	126.13	GS /@ WALL ST
1007	1953823.2610	6177504.9720	126.17	GS /@ WALL
1008	1953815.7700	6177509.1410	126.18	GS /@ WALL
1009	1953808.5980	6177512.8310	126.20	GS /@ WALL
1010	1953801.6430	6177516.4780	126.19	GS /@ WALL
1011	1953794.7530	6177520.2270	126.23	GS /@ WALL
1012	1953787.6910	6177524.0000	126.14	GS /@ WALL
1013	1953780.7390	6177527.7800	126.29	GS /@ WALL END
1014	1953782.8090	6177531.2270	126.37	FNC ST GS

POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1015	1953789.5150	6177527.1330	126.18	FNC GS
1016	1953796.7700	6177523.5640	126.23	FNC GS
1017	1953803.6860	6177519.8760	126.33	FNC GS
1018	1953810.4890	6177515.6900	126.37	FNC GS
1019	1953817.4010	6177512.1080	126.24	FNC GS
1020	1953824.9240	6177507.9760	126.30	FNC GS
1021	1953831.5950	6177504.6890	126.25	FNC GS
1022	1953838.2580	6177501.0800	126.19	FNC GS
1023	1953845.3020	6177497.4010	126.26	FNC GS
1024	1953848.8130	6177495.3340	126.22	FNC GS
1025	1953816.2670	6177508.5660	129.27	WALL ST
1026	1953803.0510	6177515.6180	129.32	WALL
1027	1953789.6550	6177522.8130	129.38	WALL
1028	1953776.7170	6177529.7790	129.43	WALL
1029	1953786.1790	6177528.8870	126.20	VLTW ST (STORM DRAIN N2)
1030	1953788.4480	6177527.7140	126.19	VLTW (STORM DRAIN N2)
1031	1953787.2570	6177525.4640	126.14	VLTW (STORM DRAIN N2)
1032	1953784.9900	6177526.6220	126.15	VLTW CLS (STORM DRAIN N2)
1033	1953434.3100	6177741.2530	125.75	VLTW ST (STORM DRAIN S1)
1034	1953432.1700	6177742.7100	125.73	VLTW (STORM DRAIN S1)
1035	1953433.5800	6177744.8530	125.70	VLTW (STORM DRAIN S1)
1036	1953435.6760	6177743.4090	125.74	VLTW CLS (STORM DRAIN S1)
1037	1953429.2140	6177743.5020	129.96	WALL ST /CONSTRUCTION JOINT
1038	1953413.4710	6177754.2360	129.96	WALL /CONSTRUCTION JOINT
1039	1953391.9230	6177768.2000	129.97	WALL
1040	1953348.4870	6177794.1170	129.97	WALL
1041	1953304.8110	6177819.2350	129.95	WALL
1042	1953261.5390	6177844.1930	129.97	WALL
1043	1953198.2960	6177880.7190	129.94	WALL
1044	1953190.0110	6177885.6130	127.49	GS /@ WALL ST
1045	1953196.7960	6177881.7290	127.50	GS /@ WALL
1046	1953202.3120	6177878.5310	127.56	GS /@ WALL
1047	1953209.1160	6177874.6350	127.71	GS /@ WALL
1048	1953215.7410	6177870.8140	127.63	GS /@ WALL
1049	1953222.2700	6177867.0380	127.60	GS /@ WALL
1050	1953228.8020	6177863.2580	127.61	GS /@ WALL
1051	1953235.4740	6177859.4070	127.60	GS /@ WALL
1052	1953242.3420	6177855.4320	127.56	GS /@ WALL
1053	1953248.6380	6177851.8000	127.54	GS /@ WALL
1054	1953255.8110	6177847.6710	127.56	GS /@ WALL
1055	1953261.8220	6177844.2000	127.41	GS /@ WALL
1056	1953268.5290	6177840.3600	127.33	GS /@ WALL
1057	1953275.3300	6177836.4170	127.45	GS /@ WALL
1058	1953282.6260	6177832.2040	127.35	GS /@ WALL
1059	1953289.5240	6177828.2660	127.44	GS /@ WALL
1060	1953295.8660	6177824.6350	127.36	GS /@ WALL
1061	1953302.5860	6177820.7800	127.29	GS /@ WALL
1062	1953308.9080	6177817.2200	127.14	GS /@ WALL
1064	1953322.4590	6177809.2350	127.05	GS /@ WALL
1065	1953328.6080	6177805.7340	127.03	GS /@ WALL
1066	1953335.7710	6177801.5640	127.05	GS /@ WALL
1067	1953342.6200	6177797.6800	127.01	GS /@ WALL
1068	1953349.0770	6177793.9570	126.85	GS /@ WALL

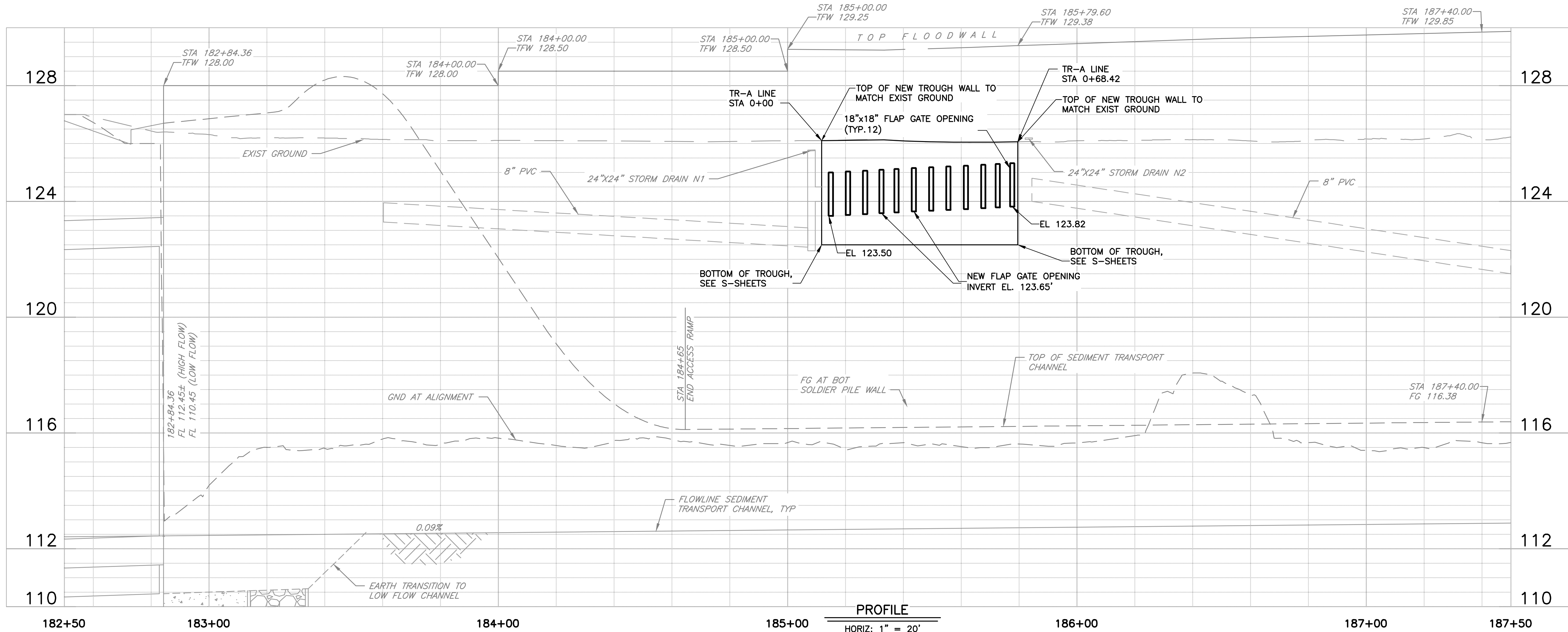
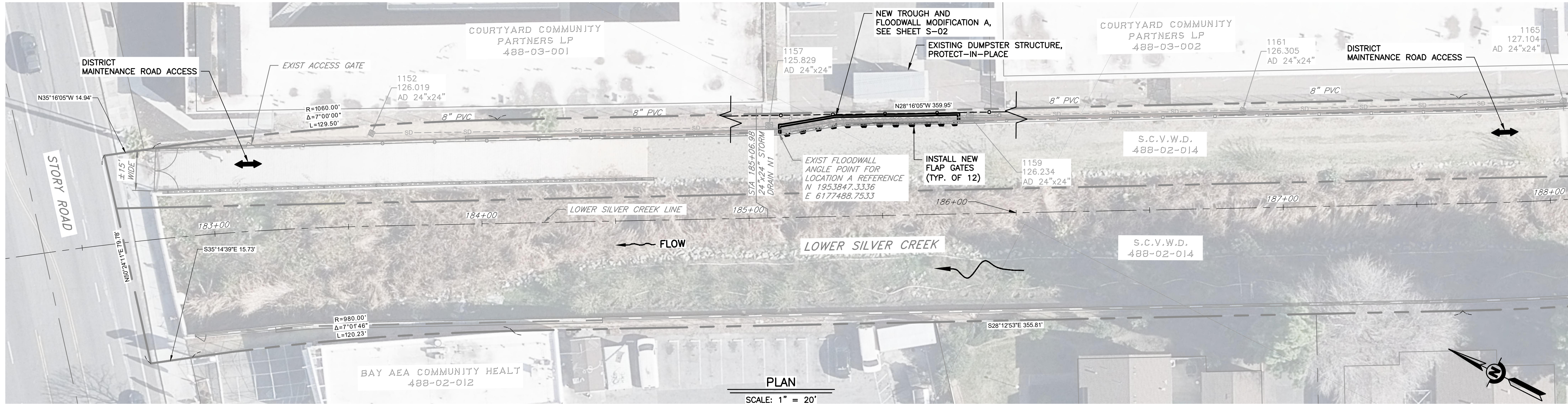
POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1069	1953355.8660	6177790.0120	126.94	GS /@ WALL
1070	1953362.4170	6177786.3290	126.97	GS /@ WALL
1071	1953368.5010	6177782.7180	127.02	GS /@ WALL
1072	1953376.5950	6177778.2140	127.01	GS /@ WALL
1073	1953382.3560	6177774.4890	126.83	GS /@ WALL
1074	1953389.0940	6177770.2230	126.92	GS /@ WALL
1075	1953395.7980	6177766.1930	126.88	GS /@ WALL
1076	1953402.2360	6177761.7760	126.77	GS /@ WALL
1077	1953408.2820	6177757.8040	126.62	GS /@ WALL
1078	1953414.6160	6177753.7730	126.24	GS /@ WALL
1079	1953421.1270	6177749.3690	126.06	GS /@ WALL
1080	1953427.5540	6177744.8850	125.91	GS /@ WALL
1081	1953434.3350	6177740.1230	125.80	GS /@ WALL
1082	1953436.2590	6177742.7420	125.80	FNC ST GS
1083	1953429.6950	6177747.6640	125.87	FNC GS
1084	1953423.1500	6177752.1240	126.18	FNC GS
1085	1953416.7370	6177757.0910	126.36	FNC GS
1086	1953411.5620	6177763.0010	126.85	FNC GS
1087	1953405.1870	6177767.1500	126.94	FNC GS
1088	1953397.9860	6177771.1070	127.06	FNC GS
1089	1953391.5940	6177775.0700	127.01	FNC GS
1090	1953384.7740	6177778.9640	127.04	FNC GS
1091	1953378.8830	6177782.2430	127.08	FNC GS
1092	1953371.2520	6177786.5650	127.04	FNC GS
1093	1953364.6380	6177790.1890	127.05	FNC GS
1094	1953358.0500	6177793.9490	127.00	FNC GS
1095	1953351.1760	6177797.9140	127.03	FNC GS
1096	1953344.2490	6177801.6250	127.12	FNC GS
1097	1953337.7290	6177805.3440	127.02	FNC GS
1098	1953330.7020	6177809.3640	126.91	FNC GS
1099	1953324.6290	6177813.1250	127.00	FNC GS
1100	1953317.5280	6177816.9360	127.15	FNC GS
1101	1953310.9100	6177820.9620	127.29	FNC GS
1102	1953304.3970	6177824.5810	127.33	FNC GS
1103	1953297.5410	6177828.4050	127.46	FNC GS
1104	1953291.3120	6177832.0950	127.48	FNC GS
1105	1953284.5850	6177835.8390	127.45	FNC GS
1106	1953277.1340	6177839.7630	127.41	FNC GS
1107	1953270.5060	6177843.5260	127.40	FNC GS
1108	1953263.6320	6177847.3770	127.51	FNC GS
1109	1953257.5770	6177850.8710	127.54	FNC GS
1110	1953250.5840	6177854.8850	127.68	FNC GS
1111	1953250.5820	6177854.9010	127.63	FNC GS
1112	1953244.1000	6177858.5710	127.60	FNC GS
1113	1953237.2150	6177862.5510	127.66	FNC GS
1114	1953230.7840	6177866.4440	127.59	FNC GS
1115	1953224.1020	6177870.5610	127.47	FNC GS
1116	1953217.4610	6177874.2850	127.56	FNC GS
1117	1953211.0280	6177877.9760	127.53	FNC GS
1118	1953204.0580	6177881.8700	127.73	FNC GS
1119	1953198.3140	6177885.1640	127.42	FNC GS
1120	1953191.6030	6177889.0800	127.56	FNC GS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE 04/07/25 DESIGN J. VALENCIA DRAWN C. SARMIENTO CHECKED B. LUKEN	ENGINEERING CERTIFICATION  ENGINEER	SANTA CLARA VALLEY WATER DISTRICT 	PROJECT NAME AND SHEET DESCRIPTION: SOUTH BABB CREEK FLOOD MITIGATION PROJECT SURVEY LAYOUT AND POINT TABLES	SCALE AS SHOWN VERIFY SCALES  BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 62084001 SHEET CODE: V-02 SHEET NUMBER: 8
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DOCUMENT NUMBER: SOB_CY-C-4013-84740

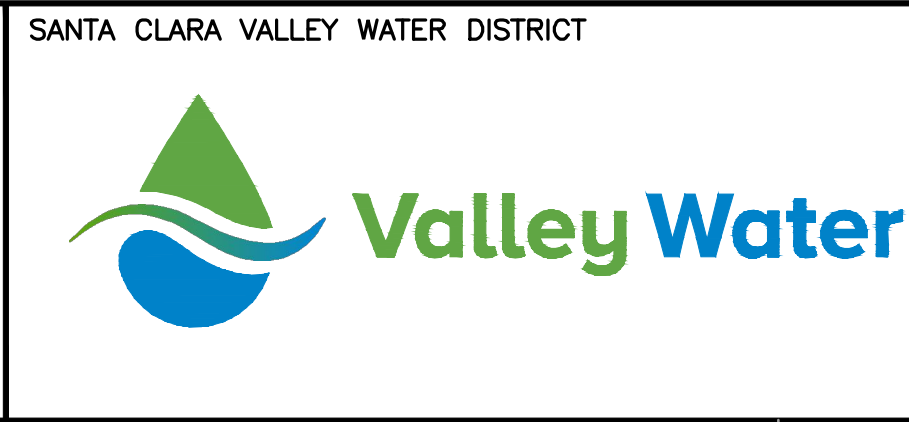


REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

1. SURFACE AND ELEVATION DATA ARE BASED ON THE LOWER SILVER CREEK PROJECT AS-BUILT DRAWINGS CREATED IN 2016 AND ARE SHOWN FOR INFORMATIONAL PURPOSE. THE CONTRACTOR IS RESPONSIBLE TO PERFORM SURVEY TO DETERMINE THE MORE UPDATED EXISTING CONDITION.
2. REFER TO SHEET V-01 FOR SPECIFIC TROUGH AREA SURVEY PERFORMED ON JANUARY 26, 2023.
3. CONTRACTOR TO PROVIDE CONNECTION DETAILS TO EXISTING STORM DRAIN BOX.

DATE	ENGINEERING CERTIFICATION
04/07/25	
DESIGN	
J. VALENCIA	
DRAWN	
C. SARMIENTO	
CHECKED	
K. NEUMAN	
ENGINEER	
DATE	



PROJECT NAME AND SHEET DESCRIPTION:

**SOUTH BABB CREEK
FLOOD MITIGATION PROJECT**

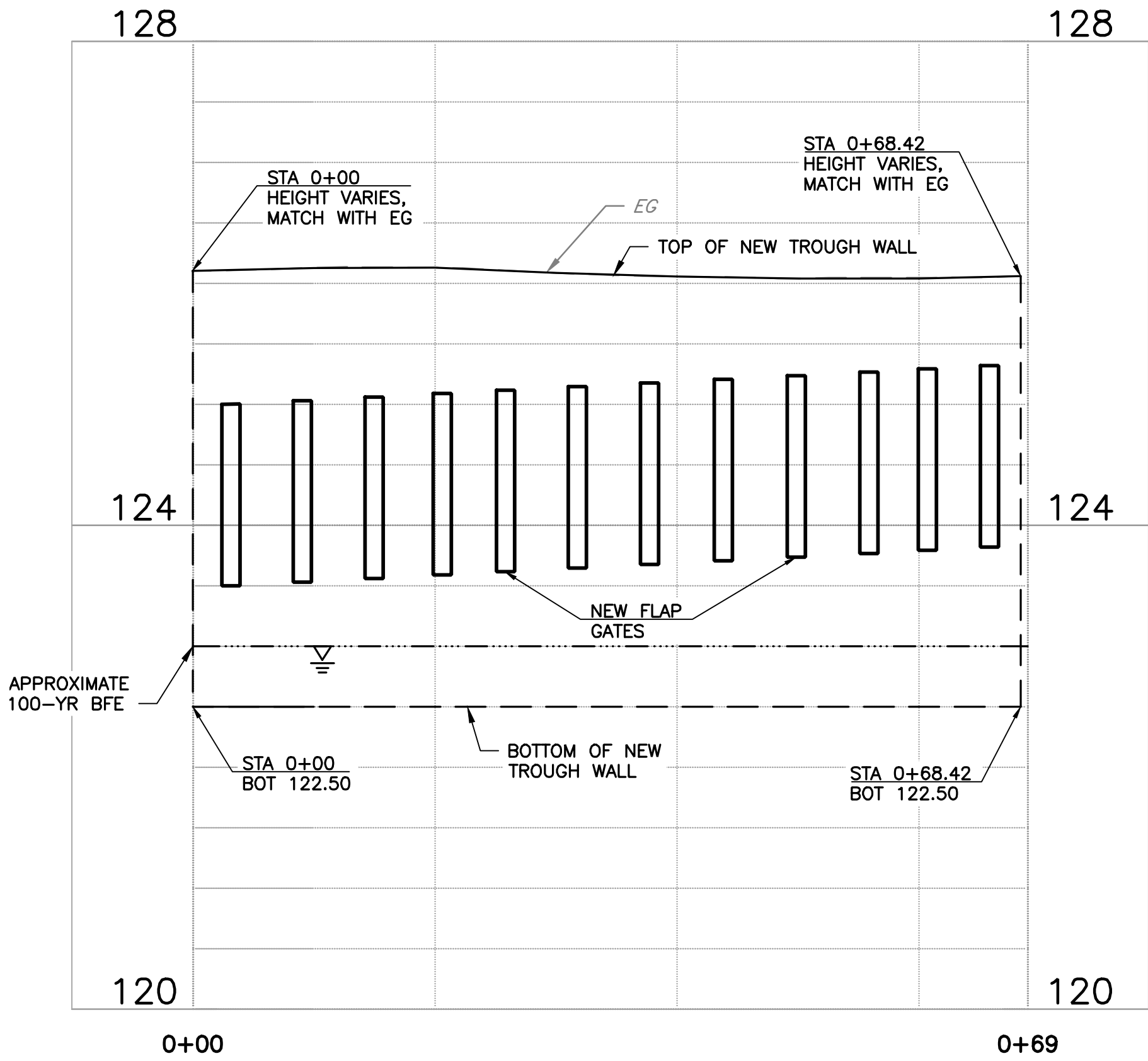
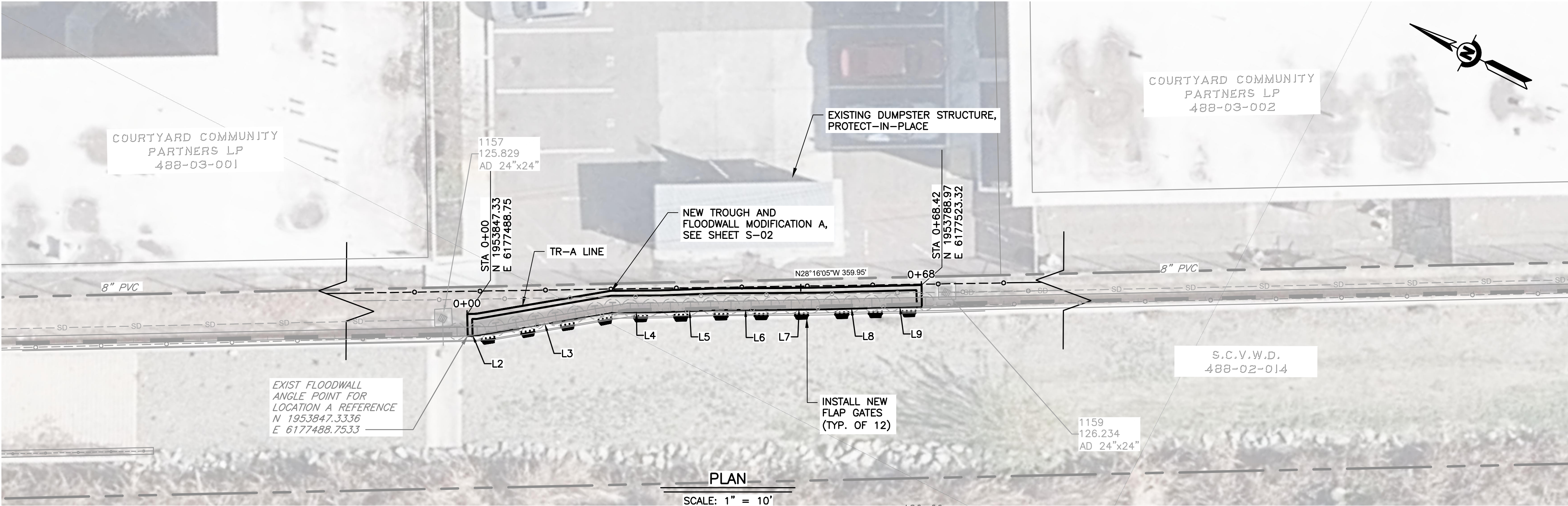
**NEW TROUGH AND FLOODWALL
MODIFICATION A: PLAN & PROFILE**

SCALE	PROJECT NUMBER
AS SHOWN	62084001
VERIFY SCALES	SHEET CODE:
0 1"	C-02
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER:
	10

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DOCUMENT NUMBER: SOB_CY-C-4013-84741

TR-A LINE TABLE		
LINE #	DIRECTION	LENGTH
L2	S28° 11' 10.57"E	1.56
L3	S36° 43' 01.33"E	20.22
L4	S27° 35' 50.90"E	7.32
L5	S29° 05' 53.20"E	8.57
L6	S27° 13' 27.09"E	8.07
L7	S27° 40' 23.71"E	7.85
L8	S28° 33' 16.09"E	7.84
L9	S28° 06' 42.31"E	6.56



PROFILE

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

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

- SURFACE AND ELEVATION DATA ARE BASED ON THE LOWER SILVER CREEK PROJECT AS-BUILT DRAWINGS CREATED IN 2016 AND ARE SHOWN FOR INFORMATIONAL PURPOSE. THE CONTRACTOR IS RESPONSIBLE TO PERFORM SURVEY TO DETERMINE THE MORE UPDATED EXISTING CONDITION.
- REFER TO SHEET V-01 FOR SPECIFIC TROUGH AREA SURVEY PERFORMED ON JANUARY 26, 2023.
- CONTRACTOR TO VERIFY ALIGNMENT ALONG EXISTING WALL.

DATE 04/07/25	ENGINEERING CERTIFICATION
DESIGN J. VALENCIA	
DRAWN O. REYNOSO	
CHECKED K. NEUMAN	
ENGINEER	

SANTA CLARA VALLEY WATER DISTRICT



PROJECT NAME AND SHEET DESCRIPTION:

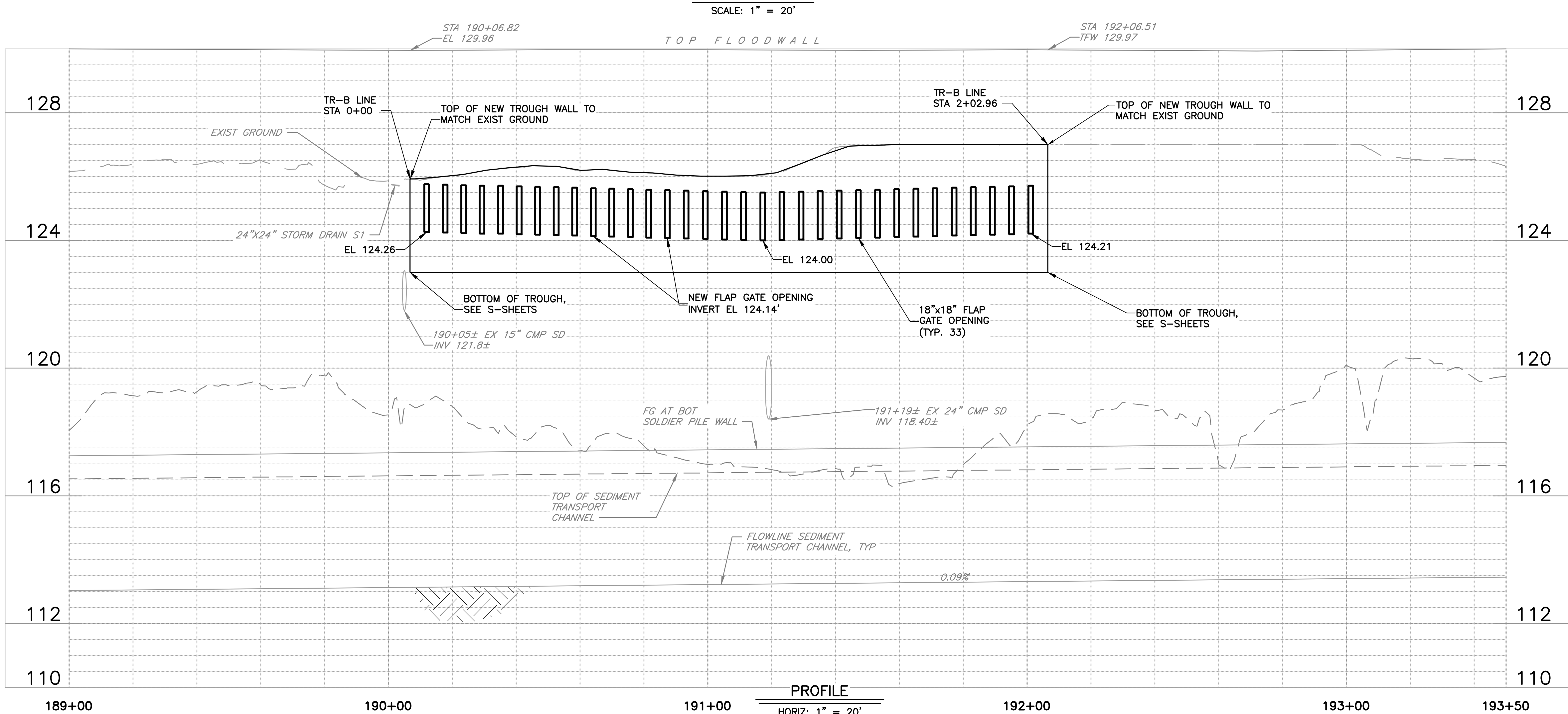
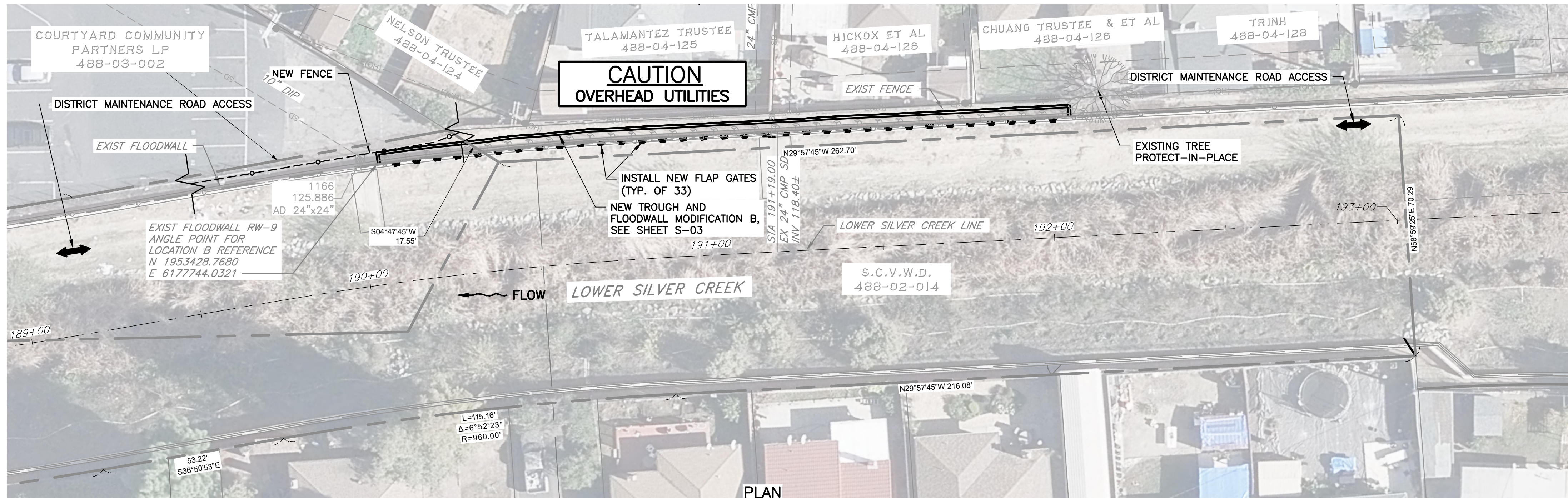
**SOUTH BABB CREEK
FLOOD MITIGATION PROJECT**

TR-A LINE PLAN AND PROFILE

SCALE AS SHOWN	PROJECT NUMBER 62084001
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-03 SHEET NUMBER: 11

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DOCUMENT NUMBER: SOB_CY-C-4013-84742

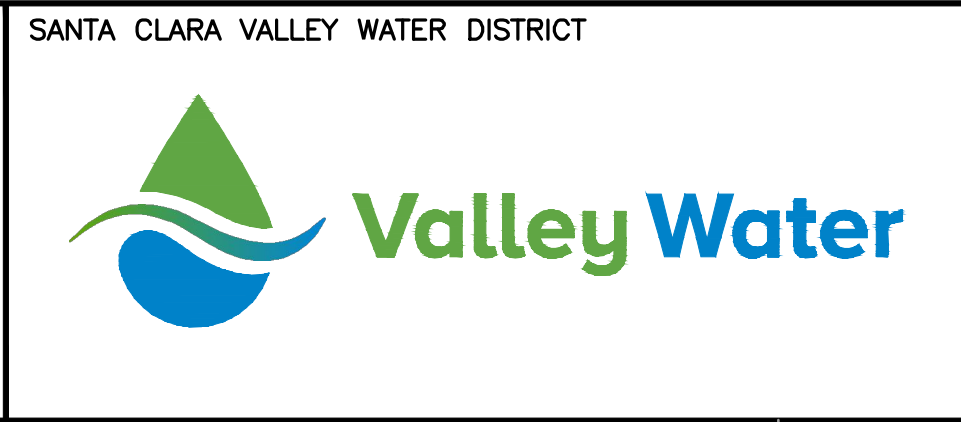


REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

1. SURFACE AND ELEVATION DATA ARE BASED ON THE LOWER SILVER CREEK PROJECT AS-BUILT DRAWINGS CREATED IN 2016 AND ARE SHOWN FOR INFORMATIONAL PURPOSE. THE CONTRACTOR IS RESPONSIBLE TO PERFORM SURVEY TO DETERMINE THE MORE UPDATED EXISTING CONDITION.
2. REFER TO SHEET V-02 FOR SPECIFIC TROUGH AREA SURVEY PERFORMED ON JANUARY 26, 2023.

DATE
04/07/25
DESIGN
J. VALENCIA
DRAWN
C. SARMIENTO
CHECKED
K. NEUMAN
ENGINEER
DATE



PROJECT NAME AND SHEET DESCRIPTION:
**SOUTH BABB CREEK
FLOOD MITIGATION PROJECT**
NEW TROUGH AND FLOODWALL
MODIFICATION B: PLAN & PROFILE

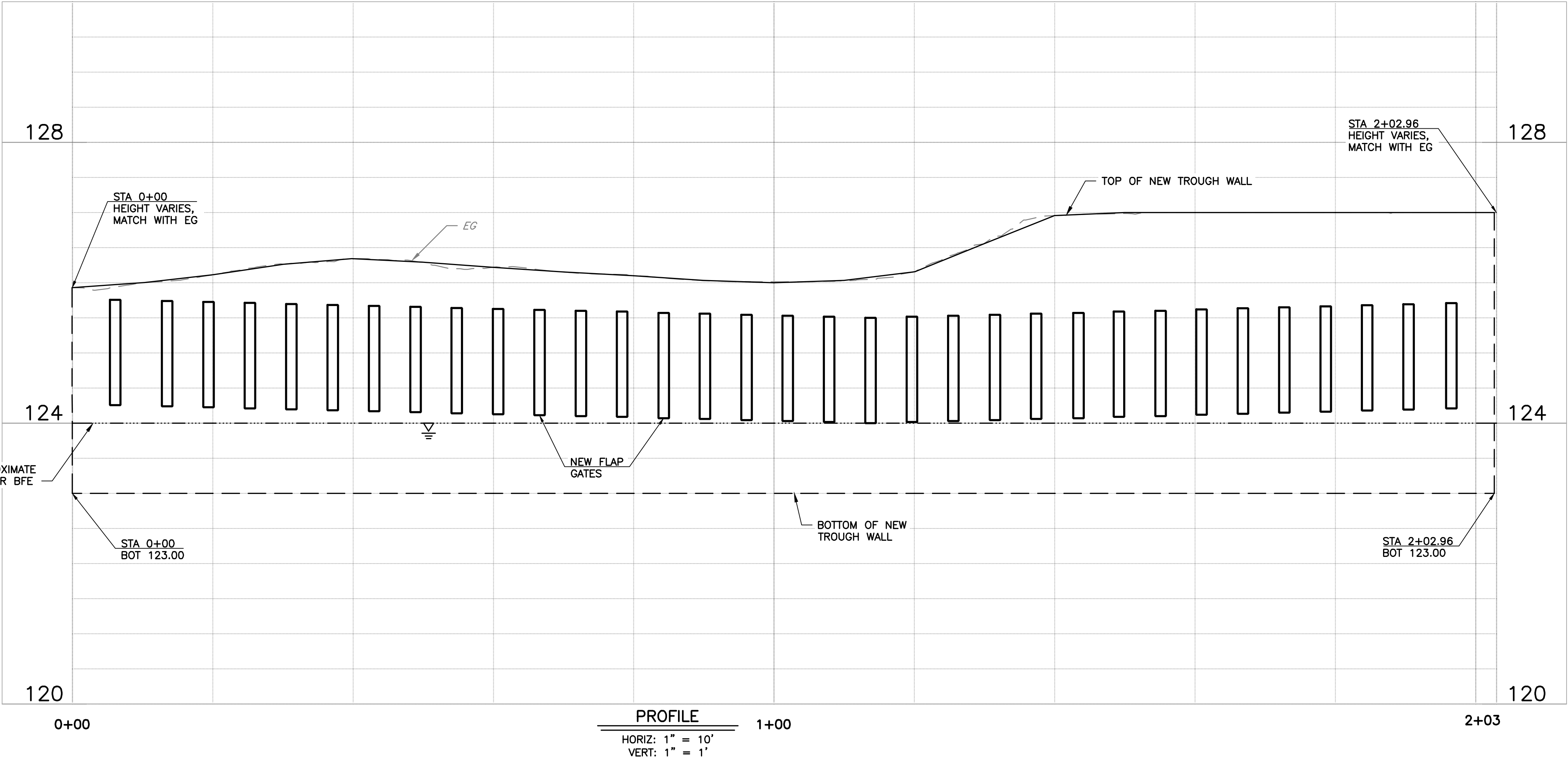
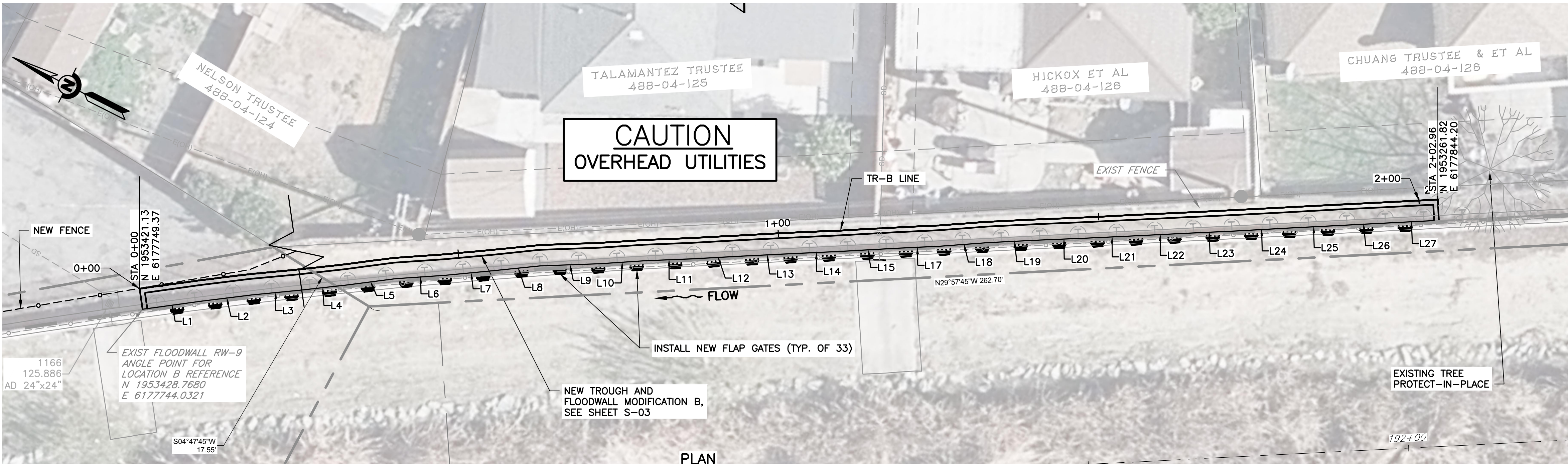
SCALE
AS SHOWN
VERIFY SCALES
0 1"
BAR IS ONE INCH ON
ORIGINAL DRAWING
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

PROJECT NUMBER
62084001
SHEET CODE:
C-04
SHEET NUMBER:
12

DOCUMENT NUMBER: SOB_CY-C-4013-84743

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TR-B LINE TABLE		
LINE #	DIRECTION	LENGTH
L1	N34° 55' 57.43"W	9.32
L2	N34° 04' 34.70"W	7.86
L3	N32° 28' 06.63"W	7.51
L4	N33° 18' 15.30"W	7.23
L5	N34° 27' 25.59"W	7.81
L6	N31° 00' 35.47"W	7.82
L7	N32° 20' 12.00"W	7.97
L8	N32° 53' 11.41"W	6.86
L9	N29° 05' 47.54"W	9.26
L10	N30° 41' 17.98"W	7.07
L11	N29° 20' 50.88"W	7.52
L12	N30° 09' 23.22"W	7.85
L13	N29° 58' 12.19"W	7.45
L14	N29° 33' 12.85"W	7.87
L15	N30° 12' 38.98"W	8.29
L17	N29° 39' 09.45"W	7.08
L18	N31° 17' 14.71"W	7.57
L19	N29° 47' 08.18"W	8.16
L20	N29° 23' 07.40"W	7.26
L21	N29° 50' 34.91"W	7.75
L22	N29° 47' 27.35"W	7.31
L23	N29° 43' 19.35"W	7.94
L24	N30° 00' 15.62"W	8.43
L25	N30° 06' 14.53"W	7.86
L26	N29° 47' 14.26"W	7.73
L27	N30° 00' 43.06"W	7.13

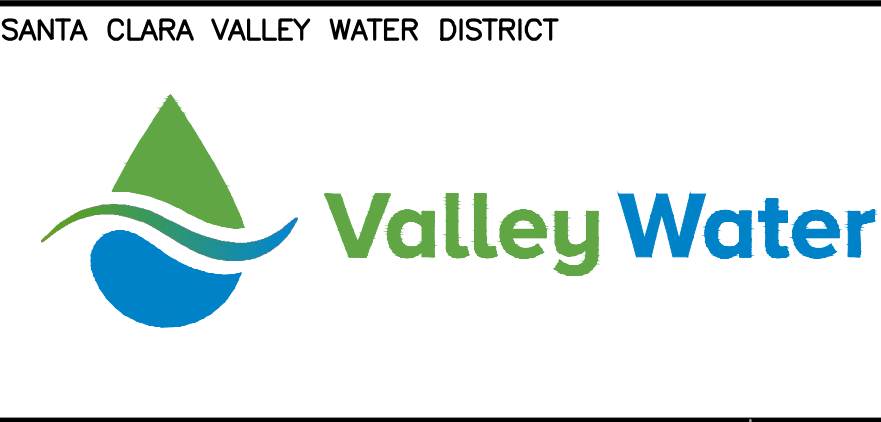


REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

- SURFACE AND ELEVATION DATA ARE BASED ON THE LOWER SILVER CREEK PROJECT AS-BUILT DRAWINGS CREATED IN 2016 AND ARE SHOWN FOR INFORMATIONAL PURPOSE. THE CONTRACTOR IS RESPONSIBLE TO PERFORM SURVEY TO DETERMINE THE MORE UPDATED EXISTING CONDITION.
- REFER TO SHEET V-02 FOR SPECIFIC TROUGH AREA SURVEY PERFORMED ON JANUARY 26, 2023.
- CONTRACTOR TO VERIFY ALIGNMENT ALONG EXISTING WALL.

DATE 04/07/25	ENGINEERING CERTIFICATION
DESIGN J. VALENCIA	
DRAWN O. REYNOSO	
CHECKED K. NEUMAN	
ENGINEER	
DATE	



PROJECT NAME AND SHEET DESCRIPTION:

SOUTH BABB CREEK FLOOD MITIGATION PROJECT

TR-B LINE PLAN AND PROFILE

SCALE AS SHOWN	PROJECT NUMBER 62084001
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-05
	SHEET NUMBER: 13

4

2

1

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DOCUMENT NUMBER: SOB_CY-S-4013-84744

GENERAL NOTES:

- CONTRACTOR MUST VERIFY ALL FIELD DIMENSIONS AND EXISTING FIELD CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
- CONTRACTOR MUST BE SOLELY RESPONSIBLE FOR COMPLYING WITH CURRENT FEDERAL, STATE AND LOCAL SAFETY AND HEALTH STANDARDS AND ORDINANCES.
- CONTRACTOR MUST BE RESPONSIBLE TO COORDINATE ALL DIMENSIONS AND DETAILS FROM PLANS BY OTHER TRADES AND ALL FIELD CONDITIONS. ANY DISCREPANCY FOUND MUST BE REPORTED TO THE DISTRICT AND RESOLVED PRIOR TO FURTHER CONSTRUCTION IN RELATION TO THE DISCREPANCY.
- DIMENSIONS SUCH AS THICKNESS, CLEARANCE TO REINFORCING BARS, ETC. MUST BE NET (NON-NOMINAL) UNLESS OTHERWISE NOTED. ANY VARIATION, IF NEEDED, MUST BE APPROVED BY DISTRICT PRIOR TO IMPLEMENTING THEM.
- CONTRACTOR MUST BE SOLELY RESPONSIBLE FOR TEMPORARY SHORING FOR EXISTING OR NEW CONSTRUCTION OF TRENCHES; THEIR SELECTION, DESIGN, INSTALLATION, SAFE MAINTENANCE AND REMOVAL AS REQUIRED. ALSO, SHORING AT TRENCHES AND SHORING FOR SLOPE STABILITY MUST BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST COMPLY WITH EXCAVATION AND SAFETY REQUIREMENTS BY CAL-OSHA.
- CONTRACTOR MUST BE SOLELY RESPONSIBLE FOR TEMPORARY SCAFFOLDING OR ELEVATED WORK PLATFORM TO PERFORM WORK AT HEIGHT OR IN HARD-TO-REACH PLACES; THEIR SELECTION, DESIGN, INSTALLATION, SAFE MAINTENANCE AND REMOVAL AS REQUIRED. CONTRACTOR MUST COMPLY WITH SAFETY REQUIREMENTS BY CAL-OSHA.
- WHERE SHORING OR SCAFFOLDING IS REQUIRED, CONTRACTOR MUST SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS DULY DESIGNED, PREPARED AND WET SIGNED BY A CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA FOR REVIEW PRIOR TO CONSTRUCTION.
- ALL EXISTING FACILITIES, STRUCTURES, TREES, FENCES, LANDSCAPING, ETC., DESIGNATED "EXIST" OR SHOWN AS EXISTING ARE TO REMAIN. ONLY THOSE SPECIFICALLY DESIGNATED FOR REMOVAL OR DEMOLITION AS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER MUST BE REMOVED.
- LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE BASED ON THE INFORMATION RECEIVED FROM THE UTILITY AND MUST BE CONSIDERED AS FOR REFERENCE ONLY.
- PRIOR TO PERFORMING ANY WORK IN THE VICINITY OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR MUST FIELD VERIFY THEIR LOCATIONS AND DEPTHS AND TAKE PROPER PRECAUTIONS TO AVOID ANY DAMAGE TO THEM.
- CONSTRUCTION OPERATIONS MUST BE CONDUCTED IN SUCH A MANNER AS TO CAUSE LITTLE INCONVENIENCE AS POSSIBLE TO THE PUBLIC.
- THE CONTRACTOR MUST INSTALL TEMPORARY FENCES AND WARNING SIGNS OR DEVICES AS SHOWN ON THE DRAWINGS AS NECESSARY.
- THE CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS AT THE STATE WATER RESOURCES CONTROL BOARDS FOR STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES.
- STRIP WATER STOP MUST BE INSTALLED CONTINUOUSLY AND IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR MUST COORDINATE ALL CONSTRUCTION AND DETAILS PER THESE PLANS, STANDARD PLANS AND RELEVANT CODES AND ORDINANCES. ANY DETAILS NOT SHOWN MUST BE CONSTRUCTED SIMILAR TO ITEMS SHOWN, SUBJECT TO APPROVAL BY THE DISTRICT AND MUST BE CONSIDERED INCLUDED IN THIS CONTRACT.
- CONTRACTOR MUST SUBMIT MANUFACTURER'S PRODUCT INFORMATION FOR BONDING MATERIAL FOR REVIEW BY THE DISTRICT FOR ANY "DRILL AND BOND (CHEMICAL ADHESIVE)" DOWELS.

DESIGN DATA:

- TROUGH:
- AS-BUILT DRAWINGS SANTA CLARA VALLEY WATER DISTRICT'S LOWER SILVER CREEK FLOOD PROTECTION AND CREEK RESTORATION PROJECT REACH 5C, CONSTRUCTION CONTRACT NO. C0564.
 - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION
 - ACI 440.1R-15 GUIDE FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL CONCRETE REINFORCED WITH FIBER-REINFORCED POLYMER (FRP) BARS

EXISTING FLOOD WALL: REFER TO AS-BUILT DRAWINGS FOR SANTA CLARA VALLEY WATER DISTRICT'S LOWER SILVER CREEK FLOOD PROTECTION AND CREEK RESTORATION PROJECT REACH 5C, CONSTRUCTION CONTRACT NO. C0564.

MATERIAL DESIGN DATA:

- CONCRETE: f'c = 4,000 PSI
- REINFORCEMENT: BASALT FIBER REINFORCED POLYMER
AS SPECIFIED IN TECHNICAL PROVISION ARTICLE 30.02. REINFORCEMENT
- CARBON STEEL: ASTM A36 (ANGLE)
- HEADED WELDED STUD: ASTM A108, 1010-1020
- ANCHOR BOLTS: MATERIAL SHALL MATCH THE MATERIAL OF THE ELEMENTS TO BE CONNECTED
ASTM F593 (STAINLESS STEEL) TYPE 304 OR 316
ASTM F1554 GR. 36 (CARBON STEEL)
- WELDING: 70XX (STEEL)
- GALVANIZING: ASTM A123
UNLESS NOTED OTHERWISE, ALL CARBON STEEL MATERIAL SHALL BE GALVANIZED.
- GRATING: GRATING MUST HAVE CAPACITY TO SUPPORT 100 PSF LIVE LOAD.
EACH GRATING PANEL WEIGHT MUST NOT EXCEED 40 LBS.

CONCRETE NOTES:

- ALL CONCRETE MATERIAL, PLACEMENT AND WORKMANSHIP MUST BE IN ACCORDANCE WITH SECTION 30 "STRUCTURE CONCRETE" OF THE TECHNICAL PROVISIONS.
- ALL EXPOSED CONCRETE EDGES AND CORNERS MUST BE CHAMFERED WITH A 3/4 INCH, 45 DEGREE CHAMFER, UNLESS NOTED OTHERWISE.
- CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL

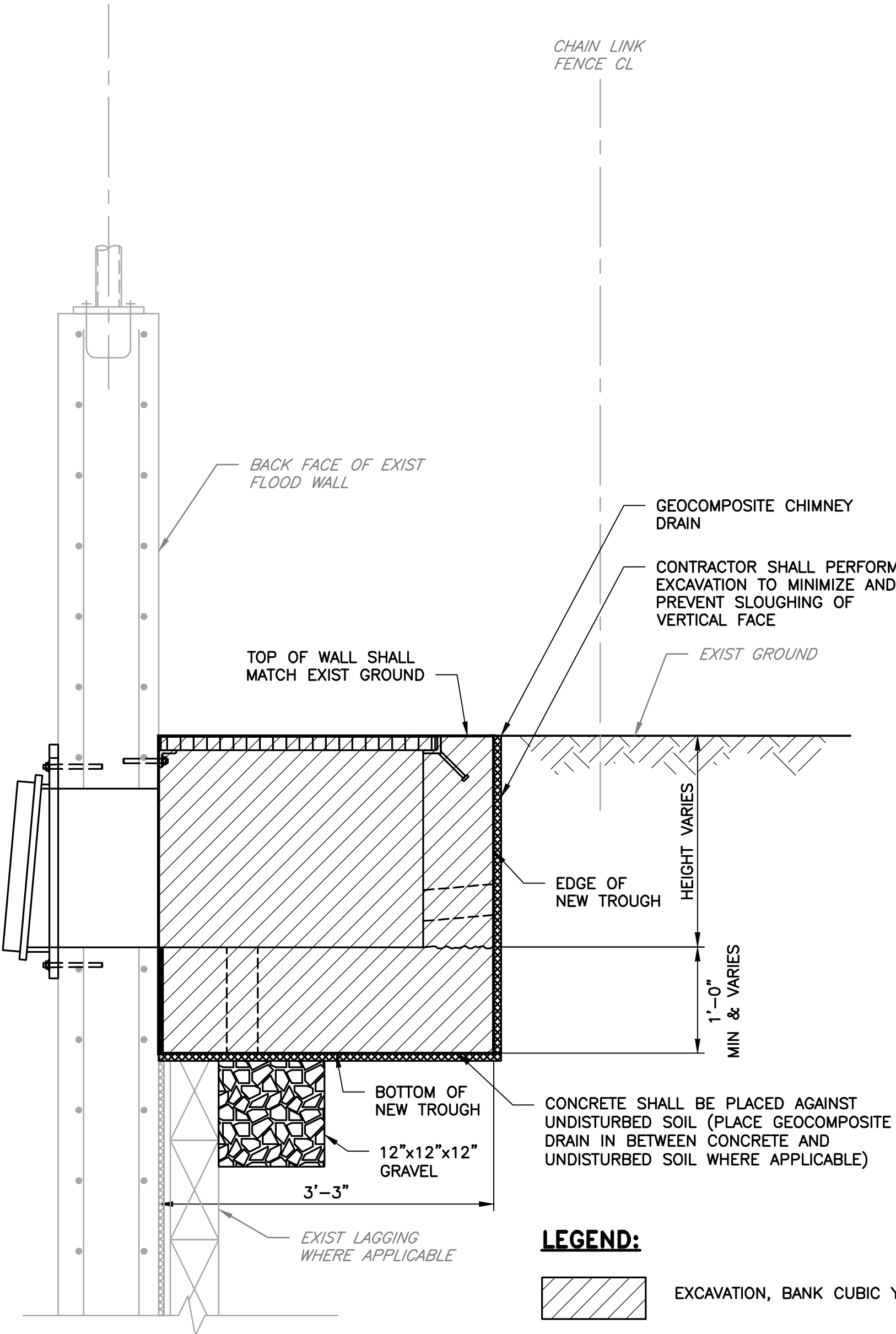
CONCRETE REINFORCING:

- ALL REINFORCING STEEL MUST BE BASALT FIBER REINFORCED POLYMER (BFRP) AS SPECIFIED IN TECHNICAL PROVISIONS ARTICLE 30.02 REINFORCEMENT.
- FABRICATION OF BFRP REINFORCING MUST BE IN ACCORDANCE WITH ACI 301, ACI 440.5 AND CRSI. IN THE EVENT OF CONFLICTS BETWEEN SPECIFICATIONS, THE MORE RESTRICTIVE STANDARD MUST GOVERN.
- BFRP REINFORCING IS TO BE BLOCKED AND TIED TO PROPER PLACEMENT AND SECURELY WIRED AGAINST DISPLACEMENT IN ACCORDANCE WITH CRSI AND TECHNICAL PROVISIONS ARTICLE 30.02.
- CONCRETE COVER FOR BFRP REINFORCING SHALL BE AS SPECIFIED ON THE DRAWINGS.
- WRITTEN SPACING AND LOCATION OF REINFORCING MUST TAKE PRECEDENCE OVER DEPICTED SPACING AND LOCATION.
- ALL REINFORCING LAP SPLICE LENGTHS FOR #5 BRFP REINFORCING SHALL BE 36".
- NO FIELD FABRICATION OF BFRP REINFORCING IS PERMITTED EXCEPT TYING AND FIELD CUTTING. DO NOT BEND OR STRAIGHTEN, COUPLE ,THERMAL CUT, OR SHEAR CUT BFRP REINFORCING.
- FOR BFRP BAR SIZE NO. 8 OR LESS, MINIMUM INSIDE BEND DIAMETER OF PREFABRICATED BENDS SHALL BE THREE BAR DIAMETERS.
- CONTRACTOR SHALL IMPLEMENT APPROPRIATE DUST CONTROL BMPS AND DUST COLLECTION MEASURES FOR CUTTING BFRP REINFORCEMENT IN COMPLIANCE WITH LOCAL LAWS AND MANUFACTURER'S RECOMMENDATION.

INDEX TO CALTRANS STANDARD PLANS (2022)

- | | |
|-------|--------------------------------|
| A3A | ABBREVIATIONS (SHEET 1 OF 3) |
| A3B | ABBREVIATIONS (SHEET 2 OF 3) |
| A3C | ABBREVIATIONS (SHEET 3 OF 3) |
| B3-7A | RETAINING WALL TYPE 6 (CASE 1) |

LIMITS OF PAYMENT:



NOTE:
THE LIMITS OF PAYMENT SHOWN ARE FOR INFORMATIONAL PURPOSE ONLY. THE SECTION SHOWN DOES NOT REPRESENT A SPECIFIC CROSS SECTION.

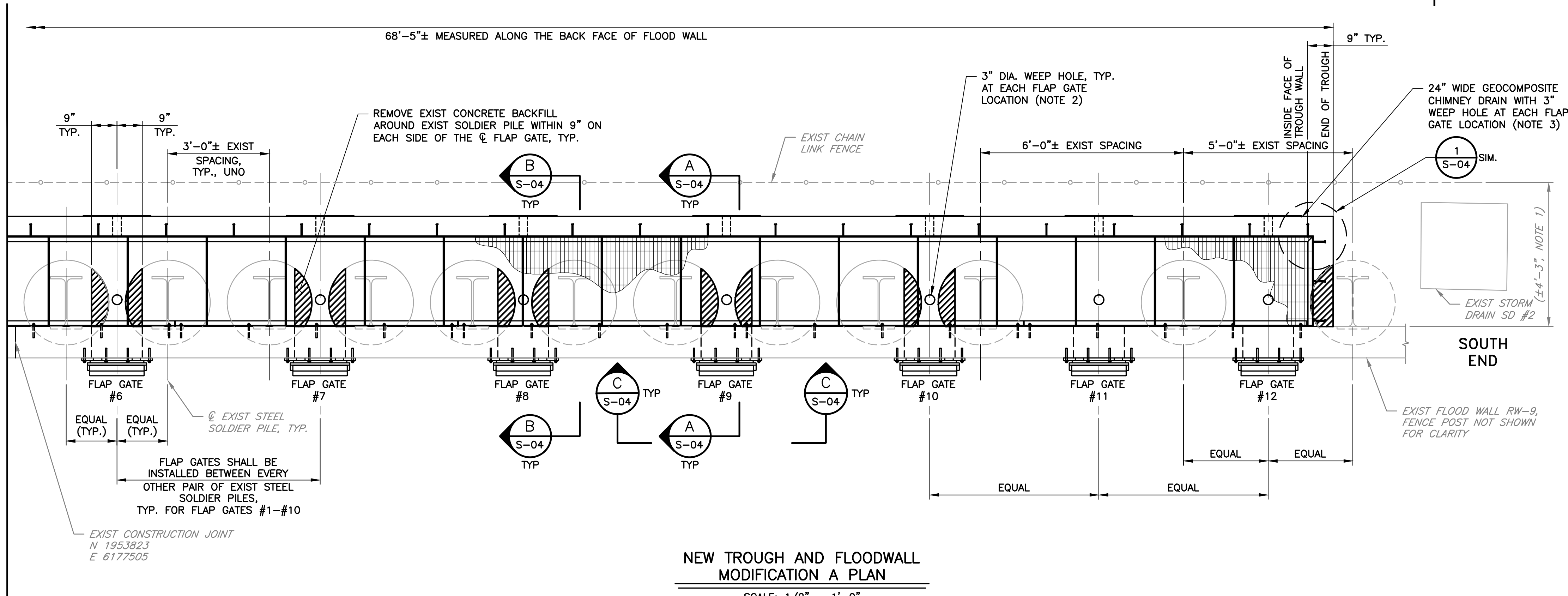
SECTION X - LIMITS OF PAYMENT FOR EXCAVATION, BANK CUBIC YARDS
SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE 04/07/25	ENGINEERING CERTIFICATION 	SANTA CLARA VALLEY WATER DISTRICT 	PROJECT NAME AND SHEET DESCRIPTION: SOUTH BABB CREEK FLOOD MITIGATION PROJECT GENERAL STRUCTURAL NOTES, DESIGN NOTES & LIMITS OF PAYMENT	SCALE AS SHOWN  VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 62084001 SHEET CODE: S-01 SHEET NUMBER: 14
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DOCUMENT NUMBER: SOB_CY-S-4013-84745

MATCHLINE - SEE ABOVE



NEW TROUGH AND FLOODWALL
MODIFICATION A PLAN
SCALE: 1/2" = 1'-0"

MATCHLINE - SEE BELOW

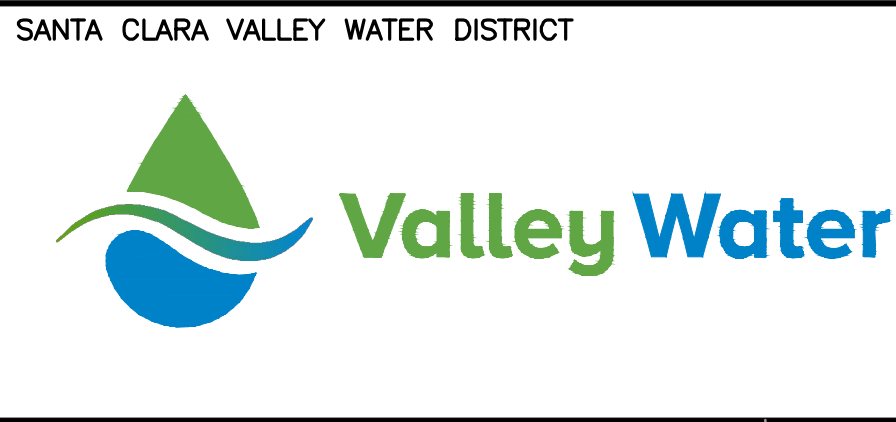
- NOTES:
1. THIS INFORMATION IS PROVIDED TO GIVE A ROUGH IDEA OF THE WORK AREA FOR BIDDING PURPOSE ONLY.
 2. TROUGH SLAB SHALL HAVE 3" DIA. WEEP HOLE AT EACH FLAP GATE LOCATION. WEEP HOLE CENTER LINE TO MATCH FLAP GATE CENTER LINE. FILL WEEP HOLE WITH CLEAN GRAVEL.
 3. TROUGH WALL SHALL HAVE 3" DIA. WEEP HOLE AT EACH FLAP GATE LOCATION. WEEP HOLE CENTER LINE TO MATCH FLAP GATE CENTER LINE. THE 24" WIDE GEOCOMPOSITE CHIMNEY DRAIN SHALL RUN ON THE BACK OF THE WALL AND THE BOTTOM OF THE SLAB. SEE SECTION A ON SHEET S-04.

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. TROUGH IS SHOWN RELATIVELY STRAIGHT FOR SIMPLICITY AND CLARITY OF STRUCTURAL DETAILS. REFER TO C-01 AND V-SHEETS FOR SURVEYED CONDITIONS.

DATE 04/07/25	ENGINEERING CERTIFICATION
DESIGN R. YAMANE	
DRAWN C. SARMIENTO	
CHECKED K. NEUMAN	
ENGINEER	



PROJECT NAME AND SHEET DESCRIPTION:

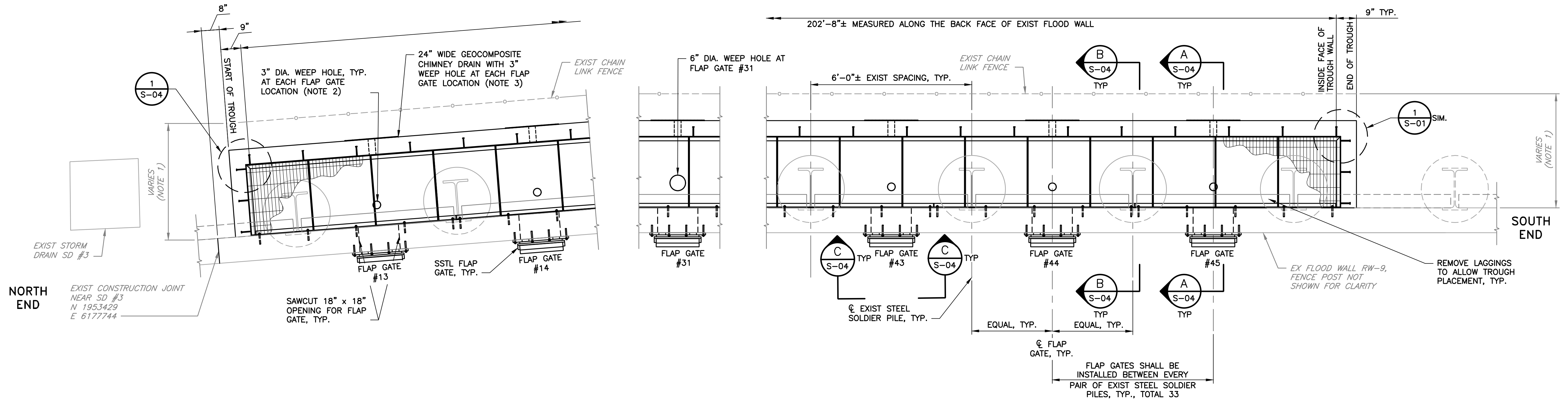
**SOUTH BABB CREEK
FLOOD MITIGATION PROJECT**

NEW TROUGH AND FLOODWALL MODIFICATION A:
STRUCTURAL WORK PLAN

SCALE AS SHOWN	PROJECT NUMBER 62084001
VERIFY SCALES  BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-02
	SHEET NUMBER: 15

USERNAME: OscarReyn 4/7/2025 3:18 PM
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DOCUMENT NUMBER: SOB_CY-S-4013-84746



NEW TROUGH AND FLOODWALL
MODIFICATION B PLAN
SCALE: 1/2" = 1'-0"

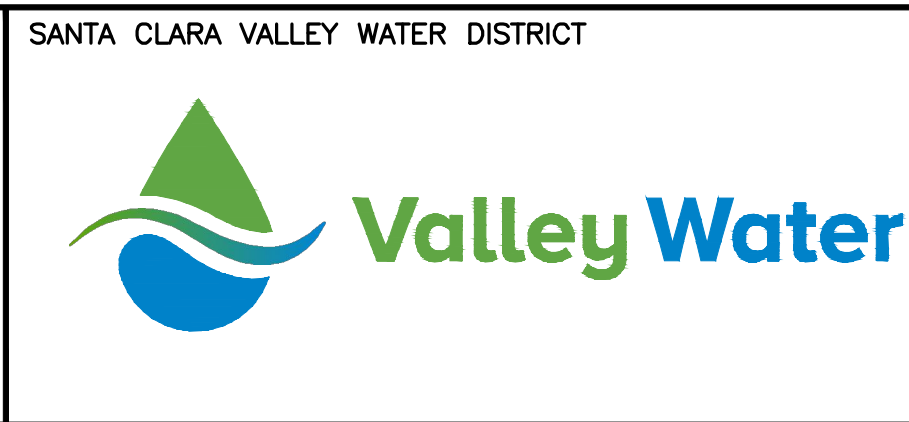
- NOTES:
- ±48" MIN TO CHAIN LINK FENCE, ±54" MIN TO CHAIN LINK FENCE IMMEDIATELY IN FRONT OF PRIVATE FENCE. THIS INFORMATION IS PROVIDED TO GIVE A ROUGH IDEA OF THE WORK AREA FOR BIDDING PURPOSE ONLY.
 - TROUGH SLAB SHALL HAVE 3" DIA WEEP HOLE AT EACH FLAP GATE LOCATION. WEEP HOLE CENTER LINE TO MATCH FLAP GATE CENTER LINE. FILL WEEP HOLE WITH CLEAN GRAVEL.
 - TROUGH WALL SHALL HAVE 3" DIA. WEEP HOLE AT EACH FLAP GATE LOCATION. WEEP HOLE CENTER LINE TO MATCH FLAP GATE CENTER LINE. THE 24" WIDE GEOCOMPOSITE CHIMNEY DRAIN SHALL RUN ON THE BACK OF THE WALL AND THE BOTTOM OF THE SLAB. SEE SECTION A ON SHEET S-04.

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

- THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
- TROUGH IS SHOWN RELATIVELY STRAIGHT FOR SIMPLICITY AND CLARITY OF STRUCTURAL DETAILS. REFER TO C-01 AND V-SHEETS FOR SURVEYED CONDITIONS.

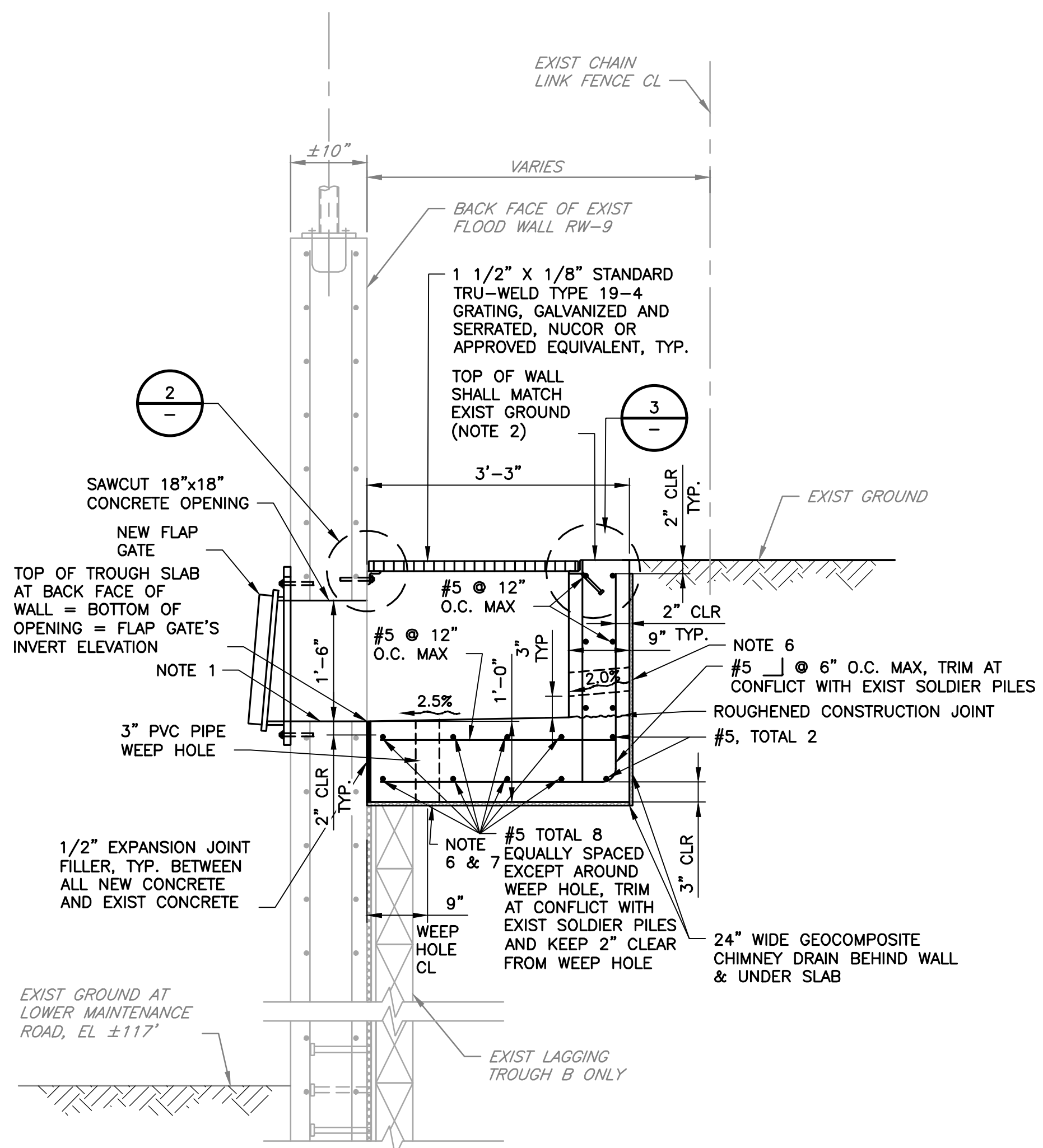
DATE 04/07/25	ENGINEERING CERTIFICATION
DESIGN R. YAMANE	
DRAWN C. SARMIENTO	
CHECKED K. NEUMAN	
ENGINEER	



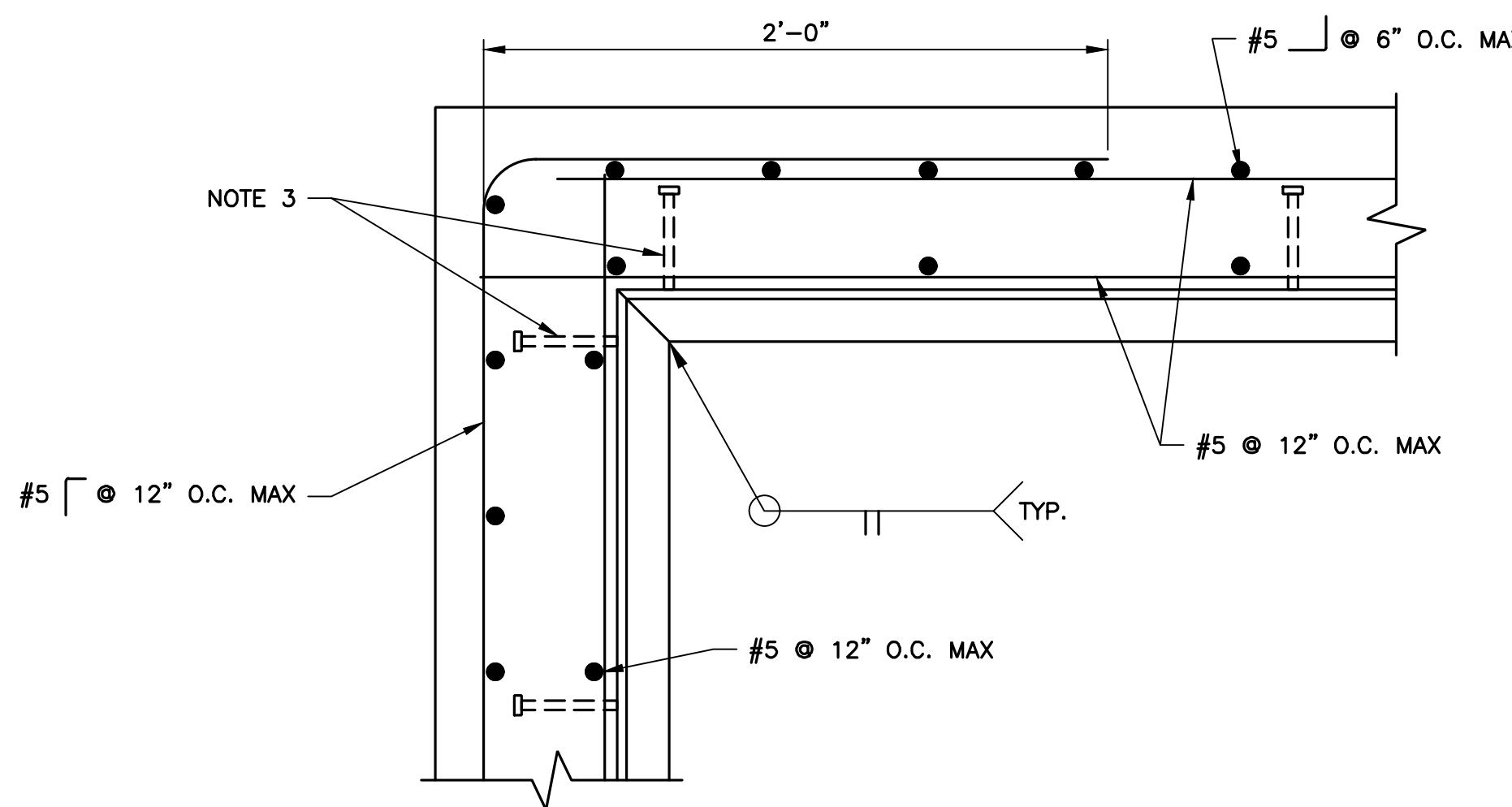
PROJECT NAME AND SHEET DESCRIPTION: SOUTH BABB CREEK FLOOD MITIGATION PROJECT NEW TROUGH AND FLOODWALL MODIFICATION B: STRUCTURAL WORK PLAN		SCALE AS SHOWN  VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 62084001 SHEET CODE: S-03 SHEET NUMBER: 16
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DOCUMENT NUMBER: SOB_CY-S-4013-84747

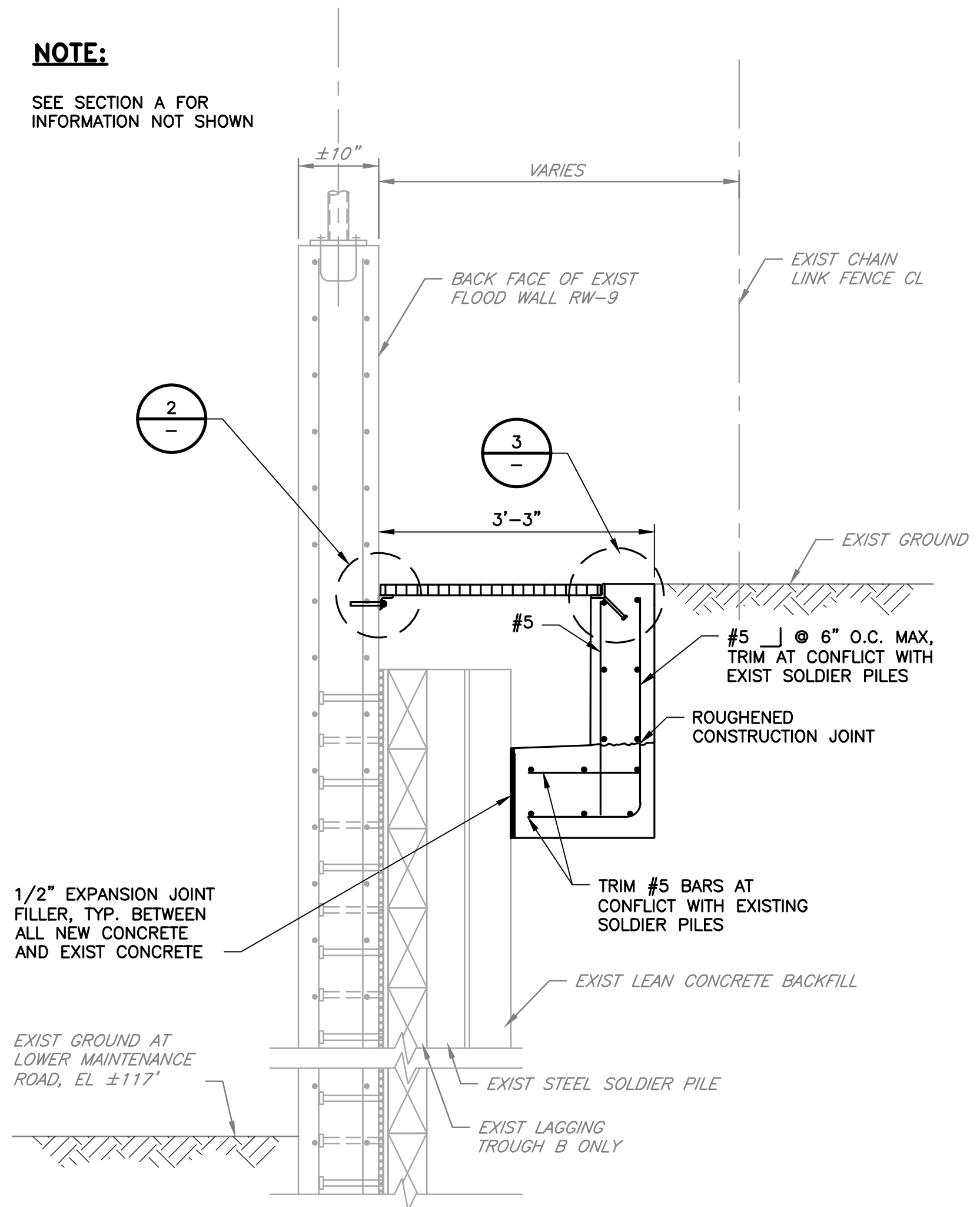
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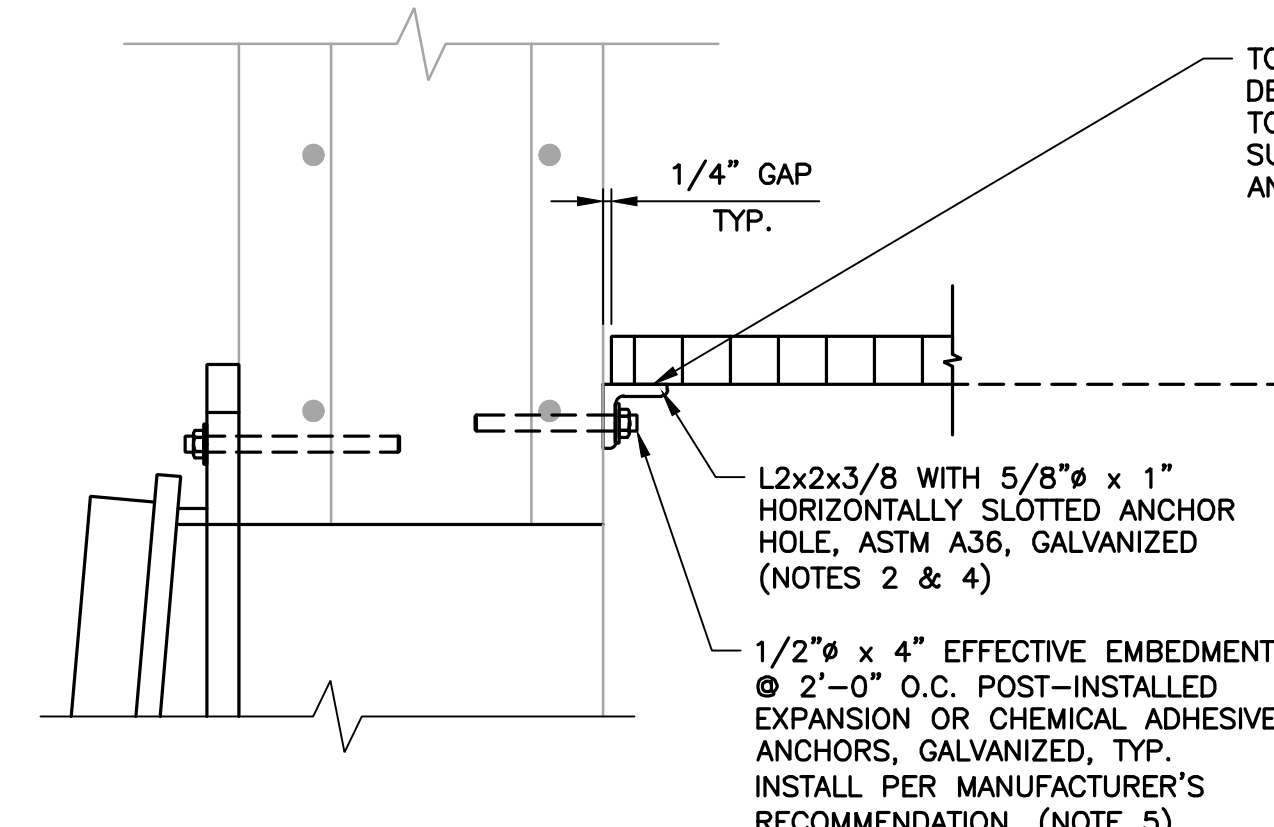
SECTION **A**
S-02
S-03
TYPICAL TROUGH SECTION
THROUGH FLAP GATE
3/4" = 1'-0"



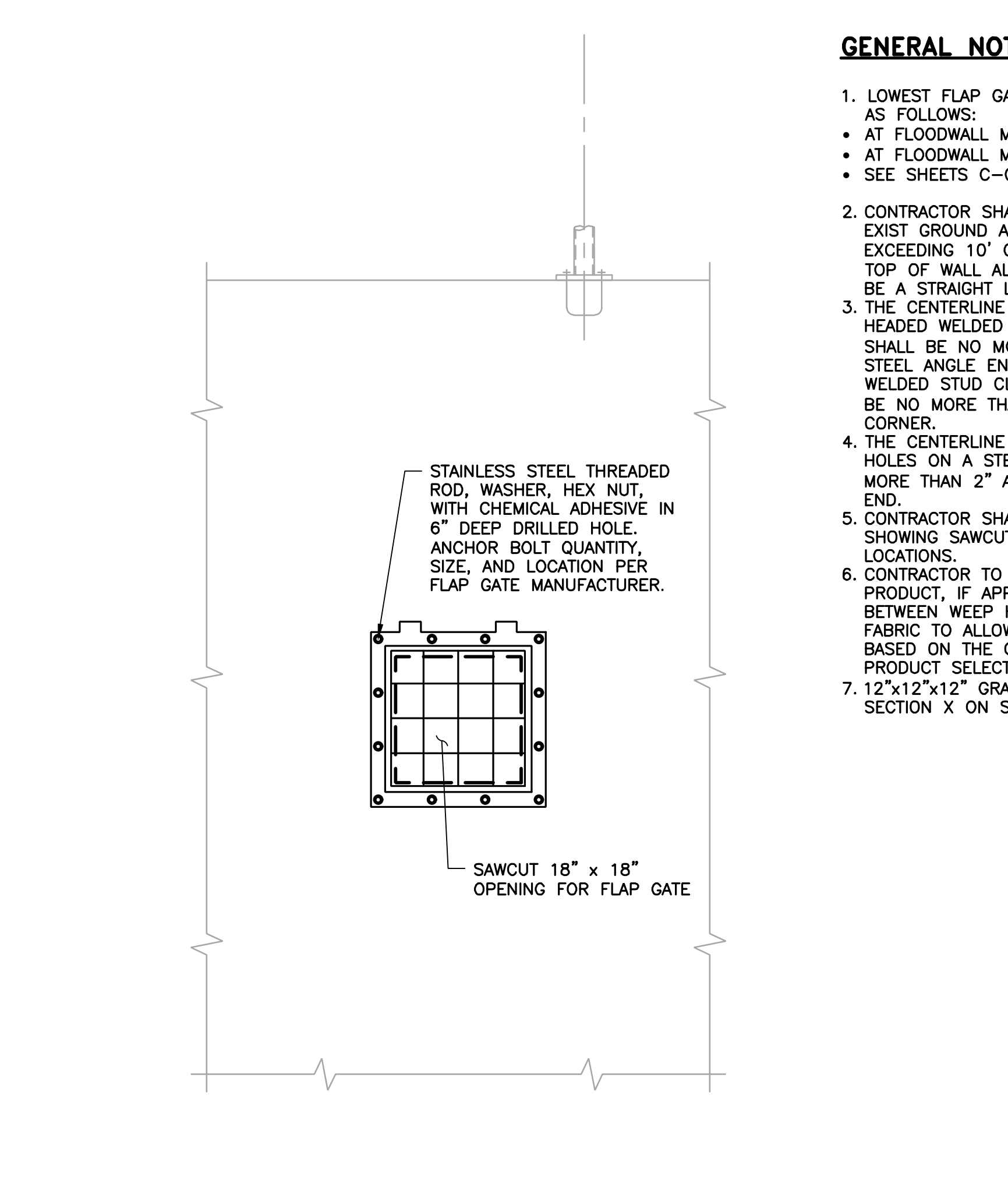
DETAIL **1**
S-02
S-03
TYPICAL TROUGH WALL CORNER
SCALE: 1" = 6"



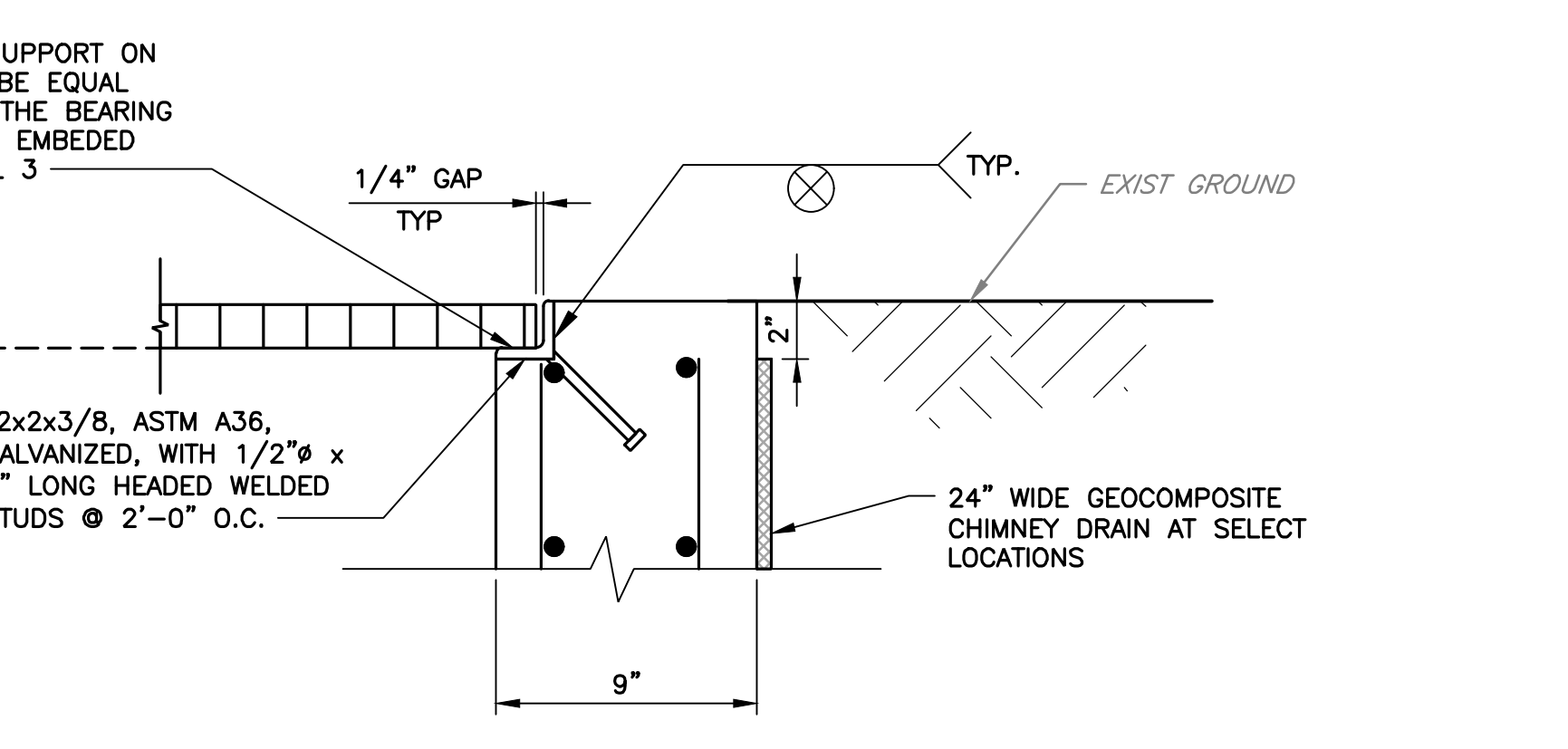
SECTION **B**
S-02
S-03
TYPICAL TROUGH SECTION
THROUGH SOLDIER PILE
3/4" = 1'-0"



DETAIL **2**
SCALE: 1" = 6"



SECTION **C**
S-02
S-03
TYPICAL EXISTING FLOODWALL FRONT VIEW
SHOWING FLAP GATE
3/4" = 1'-0"



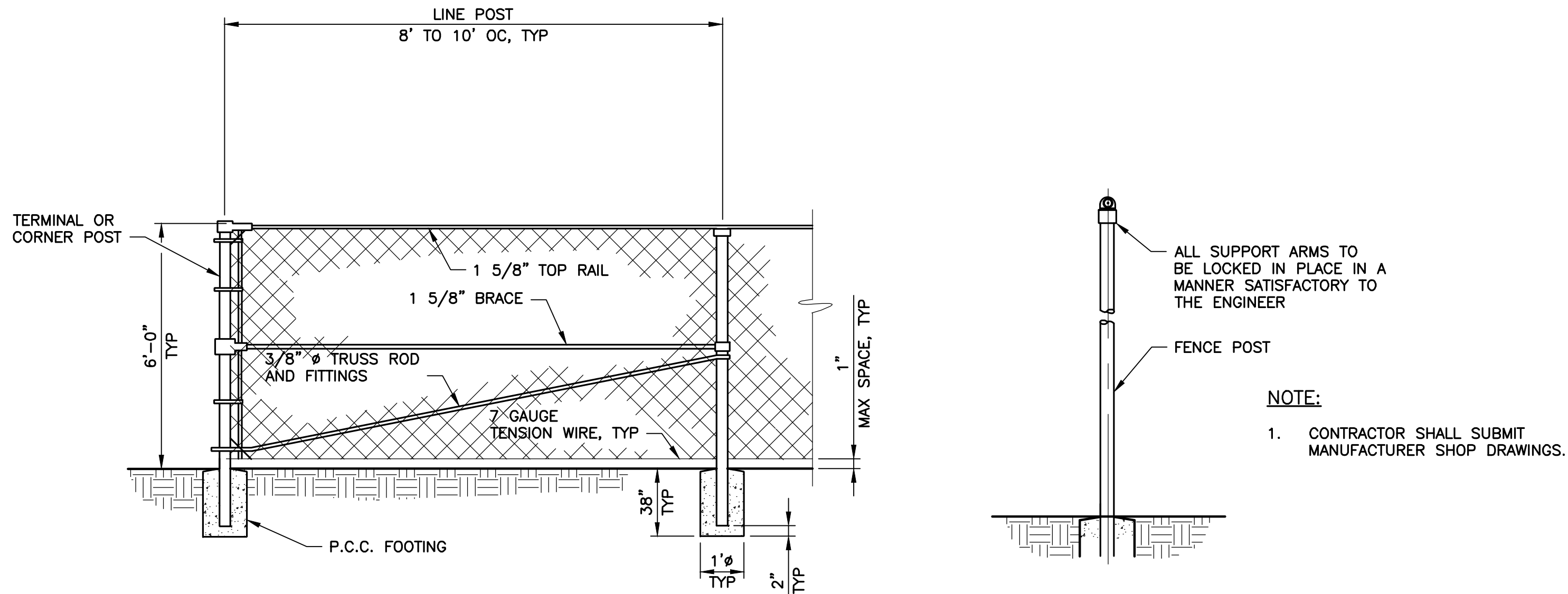
DETAIL **3**
SCALE: 1" = 6"

- GENERAL NOTES:**
1. LOWEST FLAP GATES INVERT ELEVATIONS ARE AS FOLLOWS:
 - AT FLOODWALL MODIFICATION A: ELEV. 123.5'
 - AT FLOODWALL MODIFICATION B: ELEV. 124.0'
 - SEE SHEETS C-02 TO C-05
 2. CONTRACTOR SHALL MATCH TOP OF WALL TO EXIST GROUND AT POINT INCREMENTS NOT EXCEEDING 10' O.C. MEASURED ALONG THE TOP OF WALL ALIGNMENT, TOP OF WALL SHALL BE A STRAIGHT LINE BETWEEN POINTS.
 3. THE CENTERLINE OF THE FIRST AND THE LAST HEADED WELDED STUDS ON A STEEL ANGLE SHALL BE NO MORE THAN 2" AWAY FROM THE STEEL ANGLE END. FURTHERMORE, HEADED WELDED STUD CLOSEST TO A CORNER SHALL BE NO MORE THAN 2" AWAY FROM THE CORNER.
 4. THE CENTERLINE OF THE FIRST AND THE LAST HOLES ON A STEEL ANGLE SHALL BE NO MORE THAN 2" AWAY FROM THE STEEL ANGLE END.
 5. CONTRACTOR SHALL SUBMIT A LAYOUT PLAN SHOWING SAWCUT OPENING AND ANCHOR BOLT LOCATIONS.
 6. CONTRACTOR TO SUBMIT DETAILS AND PRODUCT, IF APPLICABLE, FOR CONNECTION BETWEEN WEEP HOLE PIPE AND GEOCOMPOSITE FABRIC TO ALLOW WATER TO PASS THROUGH BASED ON THE GEOCOMPOSITE DRAIN PRODUCT SELECTED.
 7. 12"x12"x12" GRAVEL NOT SHOWN, SEE SECTION X ON SHEET S-01.

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
				1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.	04/07/25			SOUTH BABB CREEK FLOOD MITIGATION PROJECT	AS SHOWN	62084001
								STRUCTURAL DETAILS	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-04
										SHEET NUMBER: 17

USERNAME: OscarReyn 4/7/2025 5:19 PM
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DOCUMENT NUMBER: SOB_CY-S-4013-84748



DETAIL 1
CHAIN LINK FENCE
ALONG PROPERTY LINE
SCALE: NTS

CHAIN LINK FENCE SPECIFICATIONS

ALL PIPES SIZES SPECIFIED ARE "OUTSIDE" DIAMETER IN INCHES AND PIPES SHALL BE SCHEDULE 40, MINIMUM.

ALL CHAIN LINK FENCE MATERIAL SHALL CONFORM TO SECTION 80 OF THE 1992 STANDARD SPECIFICATIONS FOR PUBLIC WORKS AND THESE SPECIFICATIONS AS FOLLOWS:

1. FABRIC:

CONTINUOUS CHAIN LINK FENCE, 2" MESH, 9 GAUGE GALVANIZED STEEL WITH 1.2 OZ. PER SQ. FT. ZINC COATING.

PLACED INSIDE OF POSTS (APARTMENT SIDE) WITH KNUCKLED SELVAGES, TOP AND BOTTOM, UNLESS SPECIFIED OTHERWISE.

INSTALLED WITH 1" MAX. CLEARANCE FORM FINISHED SURFACE AND TIED TO THE TENSION WIRE OR TOP RAIL EVERY 24 INCHES. TIES TO POST SHALL BE EVERY 12 INCHES.

2. GALVANIZED STEEL PIPES:

LINE POSTS:

6'-0" AND LESS: 1-7/8" O.D. PIPE WEIGHING 2.72 LBS. PER LINEAR FOOT.
OVER 6'-0": 2-3/8" O.D. PIPE WEIGHING 3.65 LBS. PER LINEAR FOOT.

CORNER AND TERMINAL POSTS:

6'-0" AND LESS: 2-3/8" O.D. PIPE WEIGHING 3.65 LBS. PER LINEAR FOOT.
OVER 6'-0": 2-7/8" O.D. PIPE WEIGHING 5.79 LBS. PER LINEAR FOOT.

GATE FRAMES, TOP RAILS, AND BRACES:

1-5/8" O.D. PIPE WEIGHING 2.30 LBS. PER LINEAR FOOT (FOR TOP RAILS AND BRACES ONLY).

1-7/8" O.D. PIPE WEIGHING 2.72 LBS. PER LINEAR FOOT (FOR GATE FRAMES ONLY), AND AS SHOWN ON DETAIL.

3. TENSION WIRES:

TOP OR BOTTOM:

7 GAUGE, COIL SPRING SECURELY FIXED TO FABRIC AND POSTS.

FABRIC TIES:

11 GAUGE, GALVANIZED STEEL WIRE (ALUMINUM TIES WILL NOT BE ALLOWED).

4. FOOTINGS FOR POSTS:

CONCRETE FOR FOOTINGS SHALL BE CLASS "B" (2500 PSI) AND TO SHED WATER.

5. LOCKING MATERIAL:

THE CONTRACTOR SHALL PROVIDE 3' OF 5/16" PROOF COIL CHAIN, MINIMUM AS MANUFACTURED BY CAMPBELL CHAIN CO., OR APPROVED EQUAL. FINISH SHALL BE HOT DIP GALVANIZED. PADLOCKS SHALL BE PROVIDED BY THE CITY OF SAN JOSE.

6. GENERAL:

ALL MATERIAL FOR FRAME WORK SHALL BE HOT DIP GALVANIZED.

FITTINGS: HOT DIP GALVANIZED, PRESSED STEEL OR MALLEABLE IRON.

ALL TRUSS RODS SHALL BE 3/8" DIAMETER WITH TIGHTENER.

SPACING FOR POSTS SHALL NOT EXCEED 10' O.C. (ON CENTER) MAXIMUM.

SECTIONS NEXT TO CORNER OR TERMINAL POSTS SHALL BE SUPPLIED WITH STANDARD 1-5/8" BRACING AT THE MID-POINT AND A TRUSS ROD ASSEMBLY.

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 04/07/25	ENGINEERING CERTIFICATION
DESIGN R. YAMANE	
DRAWN O. REYNOSO	
CHECKED K. NEUMAN	
ENGINEER	
DATE	

SANTA CLARA VALLEY WATER DISTRICT



PROJECT NAME AND SHEET DESCRIPTION:

**SOUTH BABB CREEK
FLOOD MITIGATION PROJECT**

CHAIN LINK FENCE DETAILS

SCALE AS SHOWN	PROJECT NUMBER 62084001
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-05
	SHEET NUMBER: 18

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DOCUMENT NUMBER: SOB_CY-U-4013-84749



REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					04/07/25	REGISTERED PROFESSIONAL ENGINEER No. 62052 CIVIL STATE OF CALIFORNIA Valley Water		SOUTH BABB CREEK FLOOD MITIGATION PROJECT	AS SHOWN	62084001
					DESIGN J. VALENCIA				VERIFY SCALES	SHEET CODE:
					DRAWN C. SARMIENTO				0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	U-01
					CHECKED K. NEUMAN	ENGINEER	DATE	UTILITY INFORMATION		SHEET NUMBER: 19

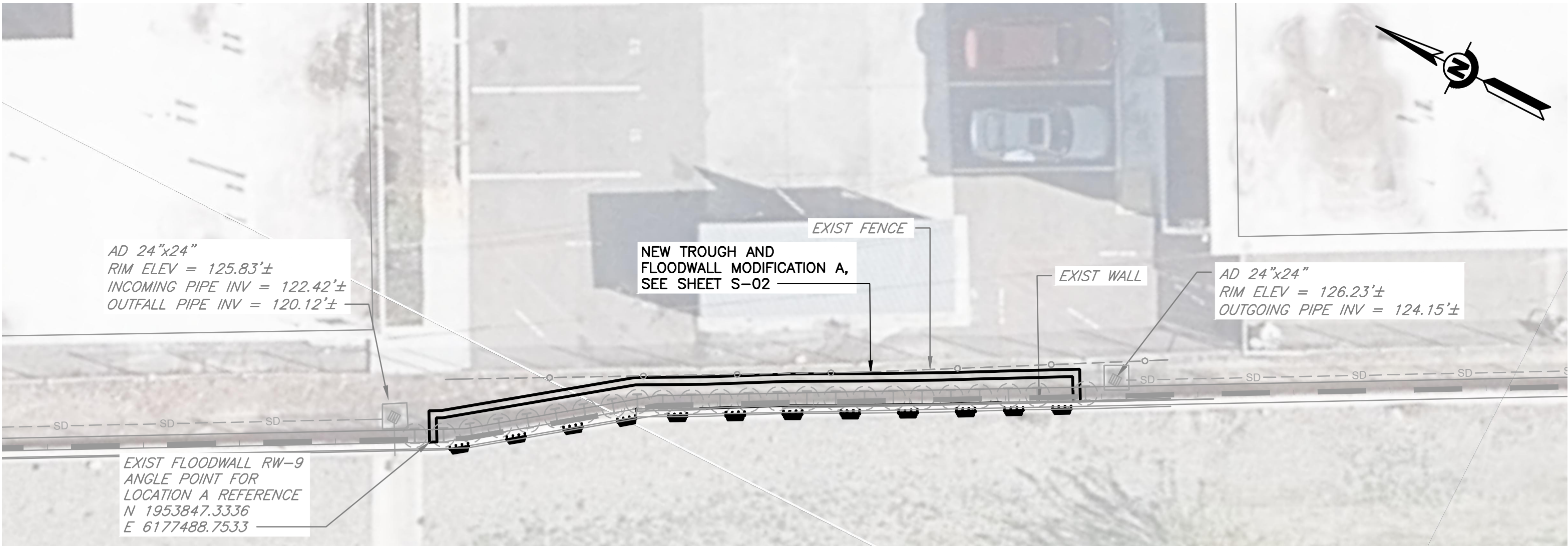
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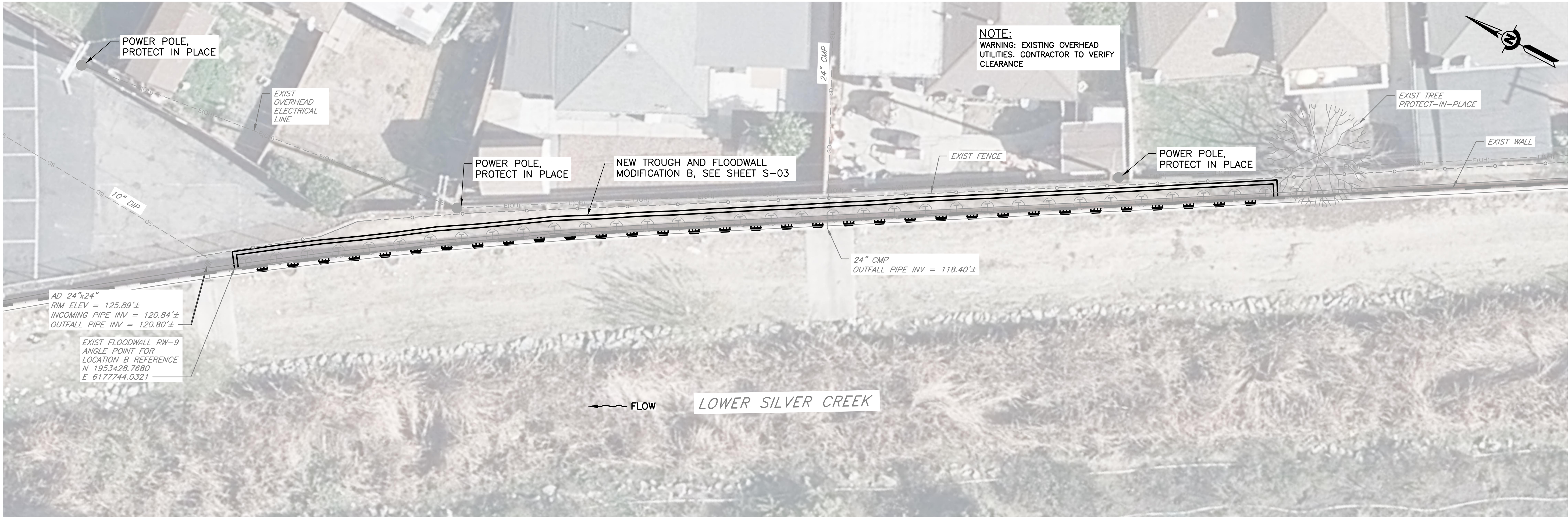
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DOCUMENT NUMBER: SOB_CY-U-4013-84750

1



DETAIL 1 NEW TROUGH AND FLOODWALL MODIFICATION A PLAN
U-01 SCALE: 1" = 10'



DETAIL 2 NEW TROUGH AND FLOODWALL MODIFICATION B PLAN
U-01 SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
					04/07/25	J. VALENCIA		SOUTH BABB CREEK FLOOD MITIGATION PROJECT DETAIL VIEWS FOR UTILITY INFORMATION	VERIFY SCALES	62084001
					DRAWN	C. SARMIENTO			0 1"	SHEET CODE:
					CHECKED	K. NEUMAN			BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	U-02
					ENGINEER					SHEET NUMBER:
					DATE					20