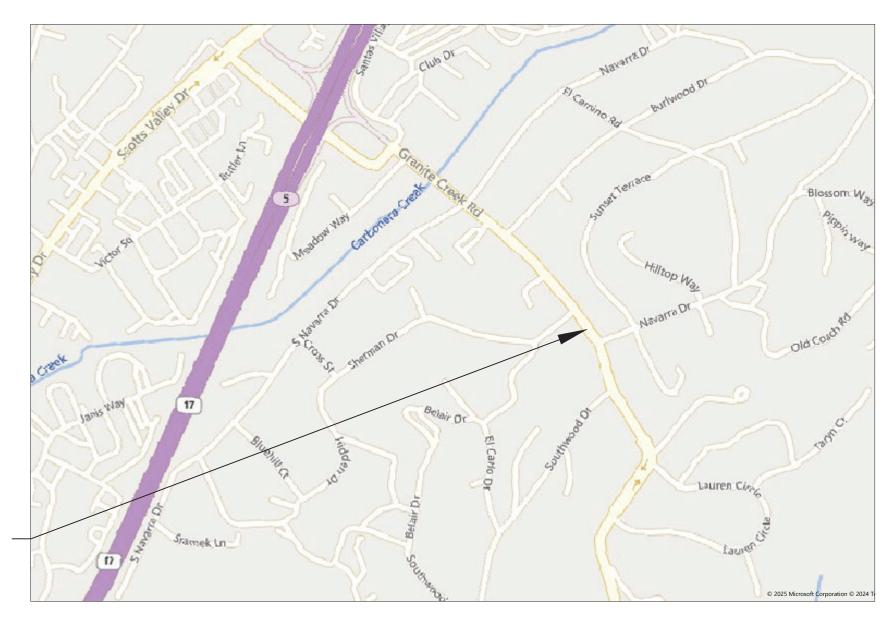
SCOTTS VALLEY WATER DISTRICT GRANITE CREEK ROAD WATERMAIN REPLACEMENT

OWNER: SCOTTS VALLEY WATER DISTRICT (SVWD) 2 CIVIC CENTER DRIVE SCOTTS VALLEY, CA 831-438-2363

CIVIL ENGINEER: SCHAAF & WHEELER CONSULTING CIVIL ENGINEERS 3 QUAIL RUN CIRCLE, SUITE 101 SALINAS, CA 93907 831-883-4848



PROJECT SITE

ABBREVIATIONS

AGGREGATE BASE AR ASPHALTIC CONCRETE AC APPROX APPROXIMATE AVAR AIR VACUUM AIR RELEASE BFP BACK FLOW PREVENTER BM BENCHMARK CL CENTERLINE CONC CONCRETE CONT CONTINUED CPLNG COUPLING CY CUBIC YARDS CU COPPER DI, DIP DUCTILE IRON PIPE DIA DIAMETER Ø. EB ELECTRIC BOX E, ELEC ELECTRIC EL, ELEV ELEVATION ELBOW ELL ELECTRIC VAULT EV FG FINISHED GRADE FLANGE FL FM FORCE MAIN FT FEET FOC FACE OF CURB GAS G GALV GALVANIZED GRN GROUND GATE VALVE GV HB HOSE BIB HIGH DENSITY POLYETHYLENE HDPE HOR HORIZONTAL INCHES IN INVERT ELEVATION INV JT JOINT TRENCH LF LINEAR FOOT L/S LANDSCAPE MIN MINIMUM MJ MECHANICAL JOINT NORTH N N.C. NORMALLY CLOSED N.T.S NOT TO SCALE PUMP Р P.C.C PORTLAND CEMENT CONCRETE ΡE PLAIN END PG&E PACIFIC GAS AND ELECTRIC PROPERTY LINE ΡL PRV PRESSURE REDUCING VALVE PVC POLYVINYL CHLORIDE REF REFERENCE **RIM ELEVATION** RIM ROW, R/W RIGHT OF WAY SLOPE S SD STORM DRAIN STL STEEL STA STATION THD THREADED TOC TOP OF CURB TYP TYPICAL UB UTILITY BOX VERT VERTICAL WATER W WM WATER METER WITH W/

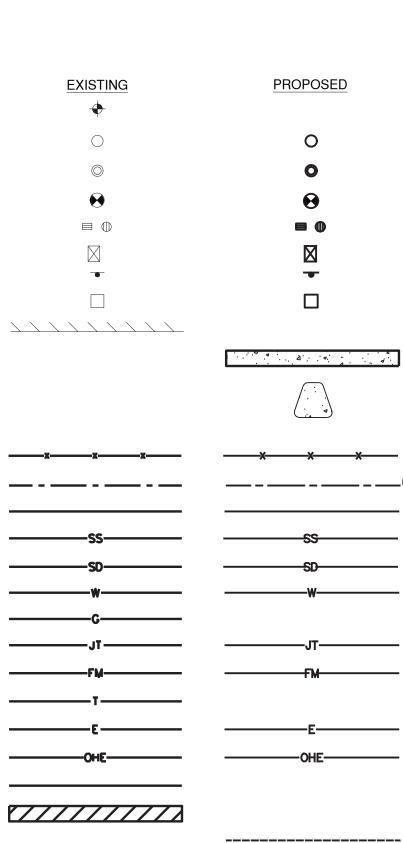
WATER BOX

WB

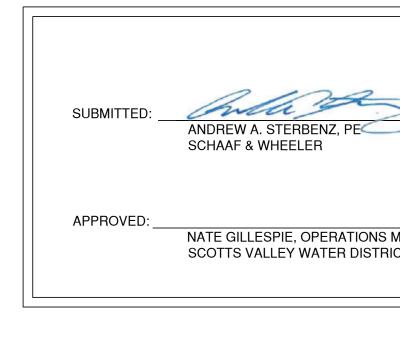
LEGEND

DESCRIPTION BENCHMARK / SOIL BORING
BOLLARD
MANHOLE
VALVE
CATCH BASIN / DRAIN INLET / AREA DRAIN
WATER METER
SIGN
UTILITY BOX (SIZE VARIES)
BUILDING LINE
CONCRETE
THRUST BLOCK
FENCE
CENTERLINE
EDGE OF PAVEMENT
SANITARY SEWER
STORM DRAIN
WATER
UNDERGROUND GAS
JOINT TRENCH
FORCEMAIN
TELEPHONE
OVER HEAD ELECTRICAL
ABANDONED PIPE
DEMOLITION
TEMPORARY WATER HIGHLINE

VICINITY MAP







PROJECT SITE

X	01/30/2025	
	DATE	
MANAGER ICT	DATE	

		PROFESSION PROFESSION No. 69703 713 NEEC/STERED No. 69703 713 NEC/STERED No. 69703 713 NEC/STERED NO. 69703 713 NEEC/STERED NO. 69703 713 NEEC/STERE				
	DATE APPR					
	Schaaf & Wheeler Consulting civil engineers 3 qualerun circle, suite #101 Salinas, ca 93907 (831) 883-4848					
	SCOTTS VALLEY WATER DISTRICT	GRANITE CREEK ROAD WATERMAIN REPLACEMENT	COVER SHEET, VICINITY MAP, ABBREVIATIONS & LEGEND			
UNDERGROUND SERVICE ALERT CALL: TOLL FREE 1-800 227-2600 WORKING DAYS BEFORE YOU DIG	DATE: 1/30/2025	SCALE:			CHECKED: AAS	

GENERAL NOTES

- 1. SHOULD IT APPEAR THAT THE WORK TO BE PERFORMED OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER AT (831) 438-2363 WITH ANY QUESTIONS OR DISCREPANCIES. ANY REVISIONS REQUIRE OWNER'S APPROVAL BEFORE PROCEEDING WITH REVISED PLANS.
- 2. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THE CONSTRUCTION CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE CIVIL ENGINEER AND THE OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THE PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CIVIL ENGINEER.
- 3. CONTRACTOR SHALL POSSESS A VALID CLASS A GENERAL ENGINEERING CONTRACTOR LICENSE AT THE TIME THE CONTRACT IS AWARDED AND SHALL MAINTAIN THROUGHOUT THE LENGTH OF CONTRACT.
- 4. CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS AT THE JOB SITE FOR PUBLIC WORKS, AMBULANCE, POLICE AND FIRE DEPARTMENTS.
- 5. CONTRACTOR SHALL CONFORM TO THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS PERTAINING TO EXCAVATION AND TRENCHING. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
- 6. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEETING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, STRUCTURE AND/OR BORING AND JACKING PIT IS REQUIRED, THE CONTRACTOR SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS.
- 7. INFORMATION CONCERNING EXISTING UTILITIES IS NOT GUARANTEED; LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE ONLY DISTRICT DOES NOT GUARANTEE THE ACCURACY, COMPLETENESS, LOCATION, OR THE EXISTENCE OR NONEXISTENCE OF ANY UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR IS REQUIRED TO TAKE ALL DUE PRECAUTIONARY MEANS NECESSARY TO PROTECT UTILITY LINES. PIPES. OR STRUCTURES.
- 8. CONTRACTOR SHALL REQUEST THAT UNDERGROUND FACILITIES BE LOCATED AND MARKED IN THE FIELD A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION BY CALLING UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600.
- 9. CONTRACTOR SHALL POTHOLE, EXCAVATE, AND EXPOSE ALL UTILITY CROSSINGS OR CONNECTIONS AFFECTED BY THE WORK. ALL EXISTING UTILITIES SHALL BE ADEQUATELY SUPPORTED AND PROTECTED TO THE SATISFACTION OF THE DISTRICT. IN THE EVENT OF DAMAGE TO ANY UTILITY OCCASIONED BY THE CONTRACTOR OPERATIONS, THE CONTRACTOR, AT HIS SOLE COST AND EXPENSE, WILL IMMEDIATELY CAUSE REPAIRS TO BE MADE TO THE SATISFACTION OF THE AFFECTED UTILITY. NOTIFY THE PROJECT ENGINEER OF ANY ADJUSTMENTS NECESSITATED BY WAY OF CONFLICT WITH EXISTING UTILITIES.
- 10. CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN, CONES OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE SPECIFICATIONS.
- 11. MAINTAIN ONE-WAY TRAFFIC ON PUBLIC AND PRIVATE ROADS, PAVED OR UNPAVED, ON WHICH WORK IS BEING PERFORMED DURING WORKING HOURS, OR COORDINATE WITH OWNER TO PROVIDE AN ACCEPTABLE DETOUR ROUTE AROUND THE WORKING AREA. MAINTAIN NORMAL TRAFFIC TRAVEL WIDTH DURING NON-WORKING HOURS. REFER TO ENCROACHMENT PERMITS, LICENSES, EASEMENT CONDITIONS AND TRAFFIC PLANS, WHERE APPLICABLE, AS INCLUDED IN THE SPECIFICATIONS.
- 12. THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS FOR ANY PRIVATE PROPERTY ADJACENT TO THE WORK AREA THROUGHOUT THE PERIOD OF CONSTRUCTION.
- 13. CONTRACTOR SHALL REPLACE, AT HIS EXPENSE, ALL TREES, SHRUBS, LAWNS, FENCES, IRRIGATION SYSTEMS AND IMPROVEMENTS WHICH ARE TO REMAIN INTACT BUT HAVE BEEN REMOVED OR DAMAGED DURING CONSTRUCTION.
- 14. ALL PERMANENT IMPROVEMENTS REMOVED OR DAMAGED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL LOCATION AND CONDITION BY THE CONTRACTOR USING NEW MATERIALS AS DIRECTED BY THE ENGINEER.
- 15. ALL SURPLUS AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND PUBLIC RIGHT-OF-WAY
- 16. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO KEEP PUBLIC STREETS FREE FROM DIRT AND DEBRIS. SHOULD ANY DIRT OR DEBRIS BE DEPOSITED IN PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL REMOVE IT IMMEDIATELY.
- 17. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT ON SITE OR IN THE STREET RIGHT-OF-WAY SHALL NOT BE PERMITTED, EXCEPT AT LOCATION(S) APPROVED BY THE CITY.
- 18. CONTRACTOR SHALL OBTAIN CITY OF SCOTTS VALLEY ENCROACHMENT PERMITS FOR WORK WITHIN PUBLIC RIGHT-OF-WAY AND EASEMENTS. CONTRACTOR IS RESPONSIBLE FOR ANY/ALL PERMITS AND ASSOCIATED FEES FOR ENTRY OR USE OF PRIVATE PROPERTY.
- 19. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY PERTAINING TO "CONFINED SPACES". ANY MANHOLE, CULVERT, DROP INLET OR TRENCH (WHICH COULD CONTAIN AIR) THAT IS NOT READILY VENTILATED MAY BE CONSIDERED A "CONFINED SPACE".
- 20. THE CONTRACTOR SHALL NOT DESTROY ANY PERMANENT SURVEY POINTS. ANY PERMANENT MONUMENTS OR POINTS DESTROYED SHALL BE REPLACED BY A LICENSED ENGINEER OR LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AN AIRBORNE DUST NUISANCE FROM THE CONSTRUCTION SITE BY WATERING AND/OR TREATING THE SITE IN SUCH A MANNER TO LIMIT THE EXTENT OF AIRBORNE DUST PARTICLES.
- 22. SITE WORK HOURS ARE 8:00 A.M. TO 5:00 P.M. MONDAY THRU FRIDAY. NO GRADING WORK SHALL BE PERFORMED ON SATURDAYS, SUNDAYS OR OBSERVED NATIONAL HOLIDAYS.
- 23. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE STORM WATER POLLUTION PREVENTION AND IMPLEMENTING NECESSARY BEST MANAGEMENT PRACTICES. EROSION CONTROL MEASURES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY. WET SEASON CONTROLS ARE REQUIRED (MINIMUM) BETWEEN OCTOBER 15 AND APRIL 15.
- 24. THE CONTRACTOR SHALL COMPLY WITH ALL RULES, REGULATIONS AND PROCEDURES OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) FOR MUNICIPAL,
- CONSTRUCTION AND INDUSTRIAL ACTIVITIES AS PROMULGATED BY THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD OR ANY OF ITS' REGIONAL WATER QUALITY CONTROL BOARDS. REFER TO THE FOLLOWING GENERAL PERMITS a. WQO 2022-0057-DWQ, GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES
- b. WQO 2013-0001-DWQ, GENERAL PERMIT FOR STORM WATER DISCHARGES FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)
- 25. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE FOLLOWING LIST OF STANDARDS ARE/OR SPECIFICATIONS ARE INCORPORATED INTO THESE PLANS BY REFERENCE. DESIGN AND CONSTRUCTION OF ALL IMPROVEMENTS SHALL COMPLY WITH ALL APPLICABLE STANDARDS INCLUDING:
- a. SCOTTS VALLEY WATER DISTRICT STANDARD DETAILS AND SPECIFICATIONS
- b. CITY OF SCOTTS VALLEY MUNICIPAL CODE
- c. CITY OF SCOTTS VALLEY STANDARD DETAILS AND SPECIFICATIONS
- d. STANDARD SPECIFICATIONS, STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, 2023 EDITION
- e. STANDARD PLANS, STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS), 2023 EDITION
- 26. IF ARCHAEOLOGICAL RESOURCES OR HUMAN REMAINS ARE DISCOVERED DURING CONSTRUCTION, THE COUNTY CORONER SHALL BE NOTIFIED AND WORK SHALL BE HALTED TO WITHIN 150-FEET OF THE FIND UNTIL IT CAN BE EVALUATED BY A QUALIFIED PROFESSIONAL ARCHAEOLOGIST. IF THE FIND IS SIGNIFICANT, APPROPRIATE MITIGATION MEASURES SHALL BE FORMULATED AND IMPLEMENTED.
- 27. THE CONTRACTOR SHALL SUBMIT TWO SETS OF 'RED-LINE" AS-BUILT PLANS TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE IMPROVEMENTS.
- 28. THE EXISTING PIPE TO BE REMOVED IS ASBESTOS CEMENT PIPE (ACP). THE PIPE SHALL BE CUT, REMOVED AND DISPOSED IN A PROPER MANOR. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER MANIFESTING OF ANY AND ALL ACP AT AN AUTHORIZED DISPOSAL SITE.

SPECIFICATIONS:

1. WATER SYSTEM REQUIREMENTS

- 1.1. WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND THE STANDARD PLANS AND SPECIFICATION OF THE SCOTTS VALLEY WATER DISTRICT. CONTRACTOR SHALL KEEP A COPY OF THE STANDARD SPECIFICATIONS AND DRAWINGS ON THE JOBSITE AT ALL TIMES
- 1.2. SVWD SHALL BE NOTIFIED AT LEAST 24-HOURS PRIOR TO COMMENCING THE WORK. A PRE-CONSTRUCTION MEETING SHALL BE HELD AT LEAST ONE WEEK PRIOR TO SITE MOBILIZATION. THE TOP OF THE PIPE SHALL BE A MINIMUM OF 36 INCHES BELOW FINISHED GRADE IN PAVED AREAS, UNLESS INDICATED
- OTHERWISE ON THE PLANS OR DIRECTED BY THE OWNER DUE TO UNUSUAL SITE CONDITIONS. PIPE SHALL BE BEDDED AND
- BACKFILLED PER SVWD STANDARD DETAIL 15. TRENCH SHALL BE REPAIRED PER CITY OF SCOTTS VALLEY STANDARD DETAIL SS-03. 1.4. PIPE BEDDING AND PIPE ZONE BACKFILL SHALL BE CLEAN NATIVE SAND OR IMPORTED SAND. NO FACILITY IS TO BE BACKFILLED UNTIL INSPECTED BY THE OWNER. 1.5.
- SHUT DOWN OR TAPPING OF EXISTING WATERLINES SHALL BE COORDINATED WITH THE CITY AND/OR SVWD AT LEAST 24-HOURS IN 1.6. ADVANCE
- NO CONNECTION SHALL BE MADE TO THE EXISTING WATER MAINS UNTIL THE NEW WORK HAS PASSED THE REQUIRED PRESSURE 17 AND BACTERIOLOGICAL TESTS. TAPPING SLEEVES SHALL BE PRESSURE TESTED IN AN APPROVED MANNER IN THE PRESENCE OF THE INSPECTOR PRIOR TO TAPPING THE MAIN. TAPPING OF THE MAIN LINE SHALL NOT PROCEED UNLESS THE INSPECTOR IS PRESENT.
- 1.8. WATER USED FOR CONSTRUCTION SHALL BE METERED. OBTAIN A CONSTRUCTION METER FROM THE SYSTEM SERVING THE HYDRANT
- INSTALL PIPELINES AT UNIFORM LINE AND GRADE BETWEEN CONTROL ELEVATIONS NOTED ON DRAWINGS. DEFLECT VERTICALLY AS 1.9. NEEDED TO JOIN EXISTING PIPES.
- 1.10. ALL NEW PIPE SHALL BE PVC C900 DR 14 AND SHALL BE FULLY RESTRAINED USING MECHANICAL RESTRAINTS
- 1.11. DISTURBED (E) THRUST BLOCKS TO BE REPLACED IN-KIND. 1.12. PRESSURE TEST PIPE TO 200 PSI, PER SVWD STANDARD SPECIFICATION 15042.
- 1.13. CONTRACTOR SHALL NOT OPERATE EXISTING VALVES. ALL SYSTEM OPERATIONS TO BE PERFORMED BY SVWD. COORDINATE WITH CITY FOR TEMPORARY SHUTDOWNS.
- 2. DEMOLITION REQUIREMENTS
- 2.1. SAWCUT PAVEMENTS AND CURBS TO BE REMOVED, PROVIDING A STRAIGHT, NEAT EDGE FOR CONNECTION TO NEW WORK. REMOVE THE MINIMAL AMOUNT OF EXISTING PAVEMENT REQUIRED TO INSTALL THE NEW WORK. BACKFILL AND THEN THEN REMOVE 2.2. THE REMAINING PAVEMENT TO THE LIMITS SHOWN ON THE PLANS.
- 3. PAVING REQUIREMENTS 3.1. CURB, GUTTER AND SIDEWALK SHALL BE PER CITY OF SCOTTS VALLEY STANDARD DETAILS
- REPLACE STREET PAVEMENTS PER CITY OF SCOTTS VALLEYSTANDARD PLANS AND STREET STRUCTURAL SECTIONS AND CALTRANS 3.2. SPECIFICATION SECTION 39. MATCH EXISTING THICKNESS OF ASPHALT CONCRETE AND AGGREGATE BASE. TYPICAL THICKNESS IS 6 INCH ASPHALT CONCRETE OVER 16 INCH AGGREGATE BASE.
- WHEN REPLACING THE PAVEMENT ON AN EXISTING ROAD, THE EXISTING PAVEMENT SHALL BE CUT TO A NEAT LINE AND REMOVED 3.3. BACK TO AN EXISTING ADEQUATE STRUCTURAL SECTION. AN EXPLORATORY TRENCH OR POTHOLING MAY BE REQUIRED TO DETERMINE THE LIMITS OF PAVEMENT REMOVAL.
- THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN 3.4. PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND TO AVOID THE CREATION OF ANY LOW SPOTS OR HAZARDOUS CONDITIONS OR ANY ABRUPT OR APPARENT CHANGES IN APPEARANCE, GRADES, OR CROSS SLOPES.
- 4. COMPACTION TESTING CONTRACTOR TO SECURE SERVICE FOR COMPACTION TESTING AND SHALL BE RESPONSIBLE FOR ALL RETESTS IN FAILED AREAS. 4.1.
- TESTING INTERVAL SHALL BE DETERMINED BY THE LENGTH OF THE TRENCH DIVIDED BY 50 FEET. 4.2. THE COMPACTION REQUIREMENTS OF THE COUNTY OF SANTA CRUZ OR CALTRANS SHALL PREVAIL IN ALL PUBLIC ROADS 4.3.
- THE RELATIVE COMPACTION IN PIPE TRENCHES SHALL BE AS DESCRIBED BELOW: 4.4.
- PIPE ZONE AND PIPE BASE 95% RELATIVE COMPACTION 4.4.1.
- TRENCH ZONE TO STREET ZONE IN PAVED AREAS 95% RELATIVE COMPACTION 4.4.2.
- 4.4.3. BACKFILL ZONE - 95% RELATIVE COMPACTION
- 4.4.4. STREET ZONE IN PAVED AREAS - 95% RELATIVE COMPACTION
- 4.5. THE TOP 6-INCHES OF SUBGRADE UNDER CONCRETE SIDEWALKS SHALL BE COMPACTED TO 90% RELATIVE COMPACTION

MATERIALS:

1. GENERAL MATERIAL REQUIREMENTS

- ALL PRODUCTS AND MATERIALS FURNISHED AS PART OF THE WORK INCLUDED IN THIS PLAN SET SHALL BE SUBMITTED TO OWNER 1.1. REPRESENTATIVE FOR APPROVAL. SUBMITTALS SHALL INCLUDE BUT BE LIMITED TO: SHOP DRAWINGS, MATERIAL PROPERTIES, PRODUCT CUT SHEETS, INSTALLATION REQUIREMENTS AND OPERATION AND MAINTENANCE MANUALS. CONTRACTOR SHALL NOT PURCHASE NOR INSTALL ANY PRODUCTS OR MATERIALS WITHOUT PRIOR SATISFACTORY REVIEW DETERMINATION BY OWNER REPRESENTATIVE.
- 1.2. ALL MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER REPRESENTATIVE, AND SHALL NOT BE USED BEFORE BEING INSPECTED AND APPROVED BY THE INSPECTOR. OWNER HAS THE RIGHT TO PERFORM ANY TESTING NECESSARY TO TO ENSURE COMPLIANCE OF THE MATERIALS WITH THE MATERIALS SPECIFICATIONS. FAILURE OR NEGLECT ON THE PART OF THE OWNERS REPRESENTATIVE TO CONDEMN OR REJECT WORK MATERIALS NOT IN ACCORDANCE WITH THE MATERIALS SPECIFICATIONS SHALL NOT BE CONSTRUED TO IMPLY ACCEPTANCE SHOULD THEIR INFERIORITY BECOME EVIDENT AT ANY TIME. MATERIALS REJECTED BY THE OWNER REPRESENTATIVE SHALL BE IMMEDIATELY REMOVED FROM THE JOBSITE.

2. REFERENCE STANDARDS

- 2.1. ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
- 2.2. ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS 2.3. ASTM – AMERICAN SOCIETY FOR TESTING AND MATERIALS
- 2.4. AWWA AMERICAN WATER WORKS ASSOCIATION
- 2.5. FM FM GLOBAL (FACTORY MUTUAL)
- 2.6. HI HYDRAULIC INSTITUTE
- 2.7. IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
- 2.12. ISO INTERNATIONAL STANDARDS ORGANIZATION
- 2.13. NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- 2.14. NEC NATIONAL ELECTRICAL CODE
- 2.15. NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- 2.16. NSF NSF INTERNATIONAL (NATIONAL SANITATION FOUNDATION)
- 2.17. UL UNDERWRITERS LABORATORIES, INC.
- 3. CAST-IN-PLACE CONCRETE 3.1. CONCRETE SHALL BE MINOR CONCRETE PER CALTRANS STANDARD 90-2, PORTLAND CEMENT CONCRETE, 3000 PSI AT 28 DAYS, MAX 3-INCH SLUMP.
- MAXIMUM AGGREGATE SIZE SHALL BE 1-INCH. 3.2.
- 3.3. REBAR SHALL BE DEFORMED STEEL PER CALTRANS SECTION 52.
- 3.4. PLACE CONCRETE PER THE REQUIREMENTS OF CALTRANS SECTIONS 51 AND 73.
- 3.5. SUBMIT MIX DESIGN FOR APPROVAL PRIOR TO CONSTRUCTION.
- 4. BASE AND SUBBASE

4.1. CLASS 2 AGGREGATE BASE, 34-INCH MAXIMUM, PER CALTRANS SECTION 26.

5. PEA GRAVEL FOR STRUCTURAL BEDDING

- 5.1. 3/4-INCH CRUSHED AND WASHED STONE, 100% PASSING THE 1-INCH SIEVE AND LESS THAN 6% PASSING THE #4 SIEVE. 6. ASPHALT PAVING AND SEALS
- 6.1. ASPHALT CONCRETE SHALL BE TYPE A HOT MIX ASPHALT, 3/4" AGGREGATE GRADATION, PER SECTION 39.2.02 OF THE CALTRANS
- STANDARD SPECIFICATIONS.
- 6.2. TACK COAT SHALL BE TYPE RS1 ASPHALTIC EMULSION PER SECTION 94 OF THE CALTRANS STANDARD SPECIFICATIONS.
- 6.3. ASPHALT BINDER SHALL BE TYPE PG64-10 PER SECTION 92 OF THE CALTRANS STANDARD SPECIFICATIONS.

7. SLURRY

7.1. 2-SACK SAND CEMENT SLURRY SHALL CONSIST OF TWO SACKS (188 LBS.) OF PORTLAND CEMENT PER CUBIC YARD OF SAND AND SUFFICIENT MOISTURE FOR WORKABILITY. 8. PVC PIPE

- 8.1. PVC PIPE SHALL BE PER AWWA STANDARD C900, DR 14 PRESSURE CLASS 305.
- 8.2. PVC WATER MAINS SHALL BE RESTRAINED USING MJ RESTRAINTS, EBAA IRON 1900 OR EQUAL.
- 8.3. INSTALL PER AWWA STANDARD C600. PRESSURE TEST INSTALLED PIPE TO 200 PSI.

8.5.	DISINFECT INST
9. DUC	TILE IRON FITTIN
9.1.	DUCTILE IRON F
9.2.	BURIED DUCTIL
	IN 10-MIL POLYE
9.3.	GASKETS SHALL
9.4.	BOLTS AND NUT
9.5.	RESTRAIN ALL F

10. GATE VALVES

10.1.	RESILIENT WED
10.2.	BURIED VALVES
	UNLESS NOTED
10.3.	INTERIOR AND I
10.4.	END CONNECTI
10.5.	BOLTS AND NU
10.6.	VALVE BOXES S
10.7.	VALVE BOX RIS

- 11. LOCATOR WIRE 11.1. LOCATOR WIRE 11.2. WIRE SHALL BE WIRE TO PIPE L 11.3. WIRE SHALL BE THE VALVE RISE
- 12. GEOTEXTILE FOR S 12.1. WOVEN, NONBI WEIGHT POLYO
- 12.2. PROPERTIES: 12.2.1. MINIMUM (12.2.2. MINIMUM G 12.2.3. MINIMUM T
- APPARANT 12.2.4. 12.2.5. PERMITTIV 12.2.6. FLOW RATE

PIPELINENO

- 1. NEW WATER MAINS 2. FULLY RESTRAIN AL
- 3. DISINFECTION AND F 4. CONTRACTOR SHAL THE PROJECT (I.E. E UTILITIES SHALL BE
- 5. TEMPORARY HIGHLI COMPLETE HIGHLINE SECURITY.

SEQUENCE (

- 1. SURVEY EXISTING C
- 2. COORDINATE WITH
- 2939 GRANITE CREE 3. CUT-IN AND INSTALI DETAIL 1. C1.0 AND I
- 4. CLOSE THE NEW C REPLACED
- 5. REMOVE EXISTING A
- APPURTENANCES O
- 6. PERFORM BACTERIO
- 7. CONNECT NEW 8" 8. RE-CONNECT (3) WA
- 9. BACKFILL NEW WATE
- OVER ENTIRETY OF
- 10. CONFIRM FINAL LINE
- 11. REPLACE CURB, GU
- SCOTTS VALLEY DET
- 12. PERFORM FINAL PA

QUANTITIES

8" PVC C900 DR 14

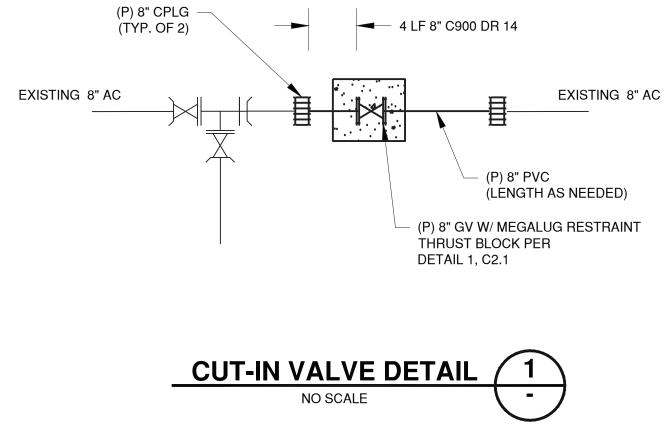
- 8" GATE VALVE, MJ X MJ E
- RESIDENTIAL WATER SER
- 8" PIPE COUPLING
- **TEMPORARY HIGHLINE WA**
- CURB, GUTTER AND SIDE

				HOFESSION HIT A. SICON	OF CALIFORNIE	
FALLED PIPE USING SODIUM HYPOCHLORIT NGS.	E SOLUTION PER AWWA	A STANDARD C651.		WODE TO THE TO T	STAT	
FITTINGS SHALL BE PER AWWA STANDARD E IRON FITTINGS SHALL BE CEMENT MORT. ETHYLENE SHEET.	AR LINED AND BITUMING	DUS COATED. BURIED FITTING	S SHALL BE WRAPPED			
L BE VULCANIZED BUTADIENE RUBBER (SB IS SHALL BE TYPE 316 STAINLESS STEEL C FITTINGS USING MEGALUG MECHANICAL RE	ONFORMING TO ASTM F			EAPPR		
GE GATE VALVES PER AWWA C509, U.L.LIS S SHALL HAVE 2-INCH SQUARE OPERATING OTHERWISE. EXTERIOR METAL SURFACES SHALL BE FAC ONS AS INDICATED ON THE DRAWINGS. IS SHALL BE TYPE 316 STAINLESS STEEL.	NUT. ABOVE GRADE VA	LVES SHALL HAVE OPEN STEM		DATE		
HALL BE TRAFFIC-RATED PRE-CAST CONC ER SHALL BE PVC PIPE, ASTM D3404, SDR 3		HRISTY MODEL G05T OR EQUA	L.			
SHALL BE 10-GAUGE STRANDED COPPER PLACED CONTINUOUSLY ON TOP OF INST JSING PLASTIC ADHESIVE TAPE AT 10-FT IN BROUGHT UP THE OUTSIDE OF THE VALVE ER. WIRE SHALL BE BROUGHT TO WITHIN 6	ALLED PIPE AND BROUG TERVALS. E RISER AND FOLDED O ^V	HT TO THE SURFACE AT EACH				
DIL RETENTION DDEGRADABLE FABRIC CONSISTING ONLY LEFINS, POLYESTERS OR POLYAMIDE, FOF			D, AT LEAST 85% BY			
RAB TENSILE STRENGTH 315 LBS RAB TENSILE ELONGATION 15%						
OPENING SIZE 40 SIEVE				EVISIONS		
TY 0.05/SEC E 4.0 GPM/SQ-FT				REVIS		
ECCX, LAYFIELD LP 315 OR EQUAL.						
SHALL BE C900 PVC DR 14 . PIPE JOINTS, VALVES AND FITTINGS USIN		RESTRAINTS		2 4 4		∢
LUSHING PLAN TO BE SUBMITTED BY CON [®] . POTHOLE AND PHYSICALLY DAYLIGHT AL	L EXISTING UTILITIES AF					
(ISTING MAINS, VALVES, FITTINGS ETC.) TI PROVIDED TO THE SVWD AND ENGINEER.					#101	
IE CONNECTIONS TO BE COORDINATED BE CONNECTIONS, SUPPLY HIGHLINE PIPE, A			JLAR	Whee	CCLE, SUITE CA 93907 3-4848	
				20	CIR CIR AS,	
<u>F WORK</u>				aaf	L RUN SALIN	
EURB, GUTTER AND SIDEWALK AND SUBMIT TO ENGINEER FOR REVIEW THE DISTRICT AND ESTABLISH TEMPORARY HIGHLINE WATER SERVICES TO 109 SHERMAN DRIVE, IK ROAD AND 103 SUNSET TERRACE I NEW 8" GATE VALVES ON EXISTING 8" AC PIPE NEAR SHERMAN DRIVE AND NAVARRA DRIVE. SEE PLACE INTO SERVICE			Schaaf consulting 3 quail run salin (831			
T-IN VALVES AT SHERMAN DRIVE AND NAV						
N EACH END FOR FLUSHING, DISINFECTION LOGICAL AND PRESSURE TESTING ON NEW VC MAIN AND PLACE INTO SERVICE FER SERVICES FROM STEP #1 PER SVWD D RMAIN AND WATER SERVICES PER SVWD	I AND PRESSURE TESTII V PVC WATER MAIN DETAIL 5	NG	НМА	ENT		
AND GRADE FOR CURB, GUTTER AND SIDE				EMEN		
TER AND SIDEWALK ALONG LENGTH OF TE AIL ST-04			OF		Ç	
ING PER CITY OF SCOTTS VALLEY DETAIL	SS-03, SD-05			VATER DISTRICT TERMAIN REPLAC		
	220 LF			R DI		
ND W/ MEGALUG RESTRAINTS	2 EA				J	
VICES RE-CONNECTIONS	3 EA			WATE ATERN & SPF(2	
	4 EA			EY V WA	-	
ATER SERVICE PIPE & APPURTENANCES	400 LF				-	
VALK REPLACEMENT	220 LF			VALLI ROAD		
				(0) -	J	
				SCOTTS CREEK	2 _]	
				SCOTTS CREEK		
				ощ с		
				NN		
				GRANIT		
				N N N		
			SERVICE ALERT	1/30/2025 AS SHOWN		AAS
			L: TOLL FREE	1/5 AS		
			1-800	DATE: SCALE:	DESIGN: DRAWN:	CHECKED:
			227-2600	SHI		Ц С
			ZZI-ZOUU TWO WORKING DAYS		-	

BEFORE YOU DIG

OF 5









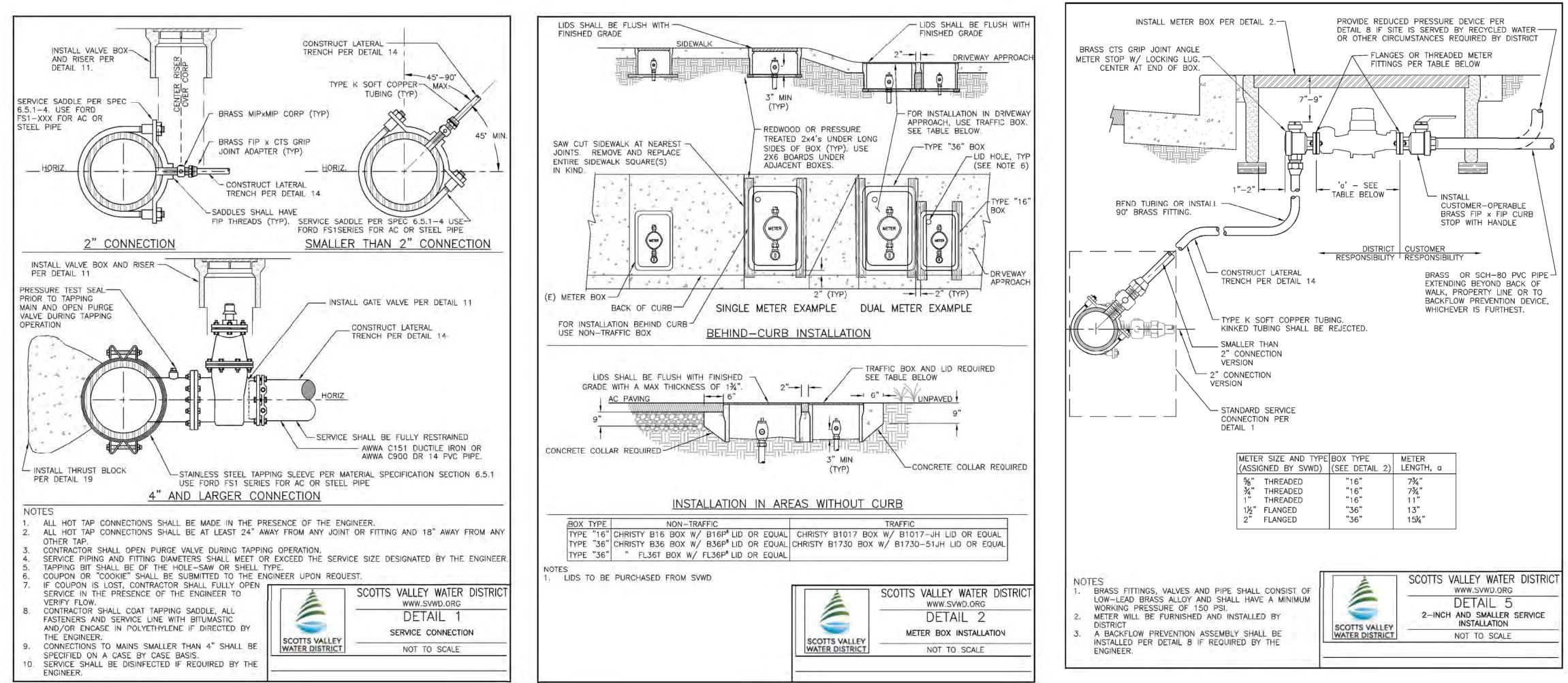
SIDEWALK REPAIR LIMITS

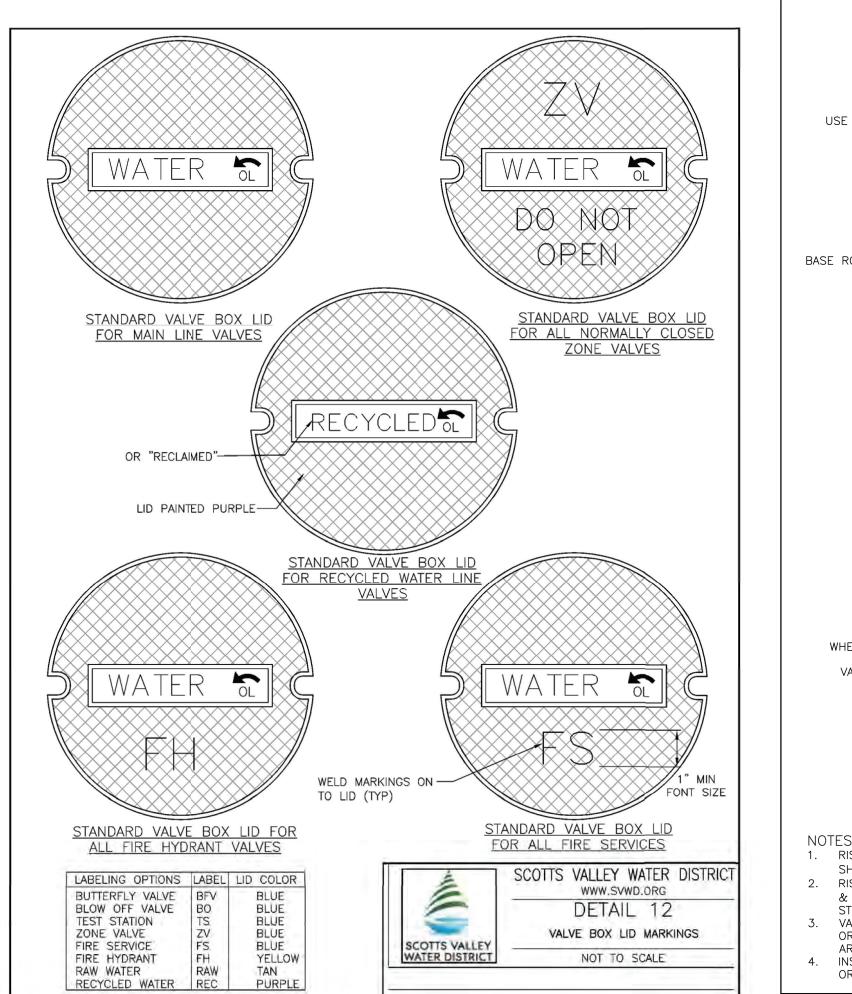
227-2600 TWO WORKING DAYS BEFORE YOU DIG

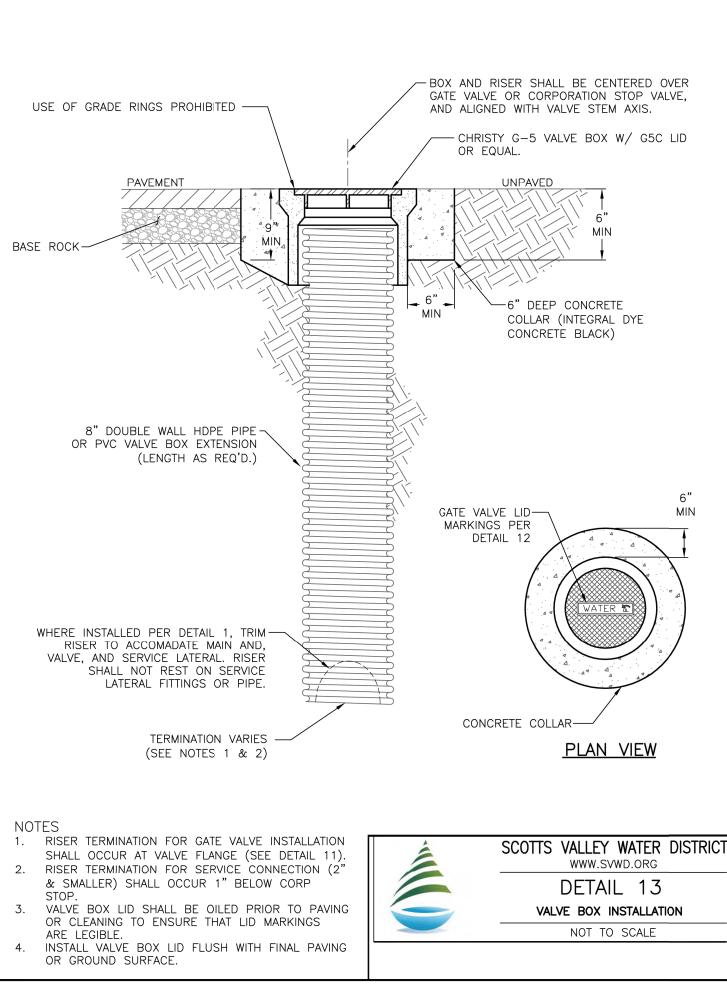
3 OF 5

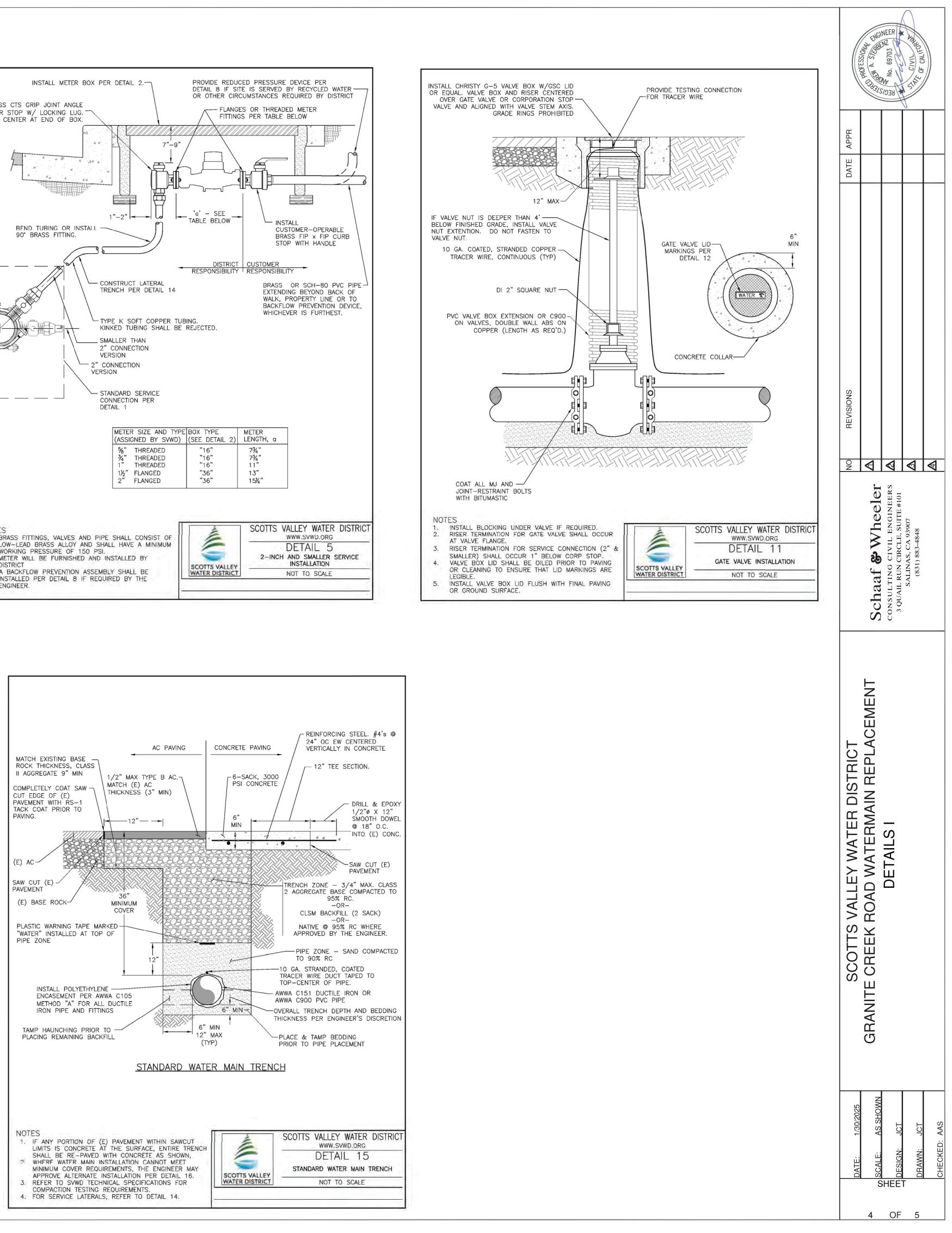
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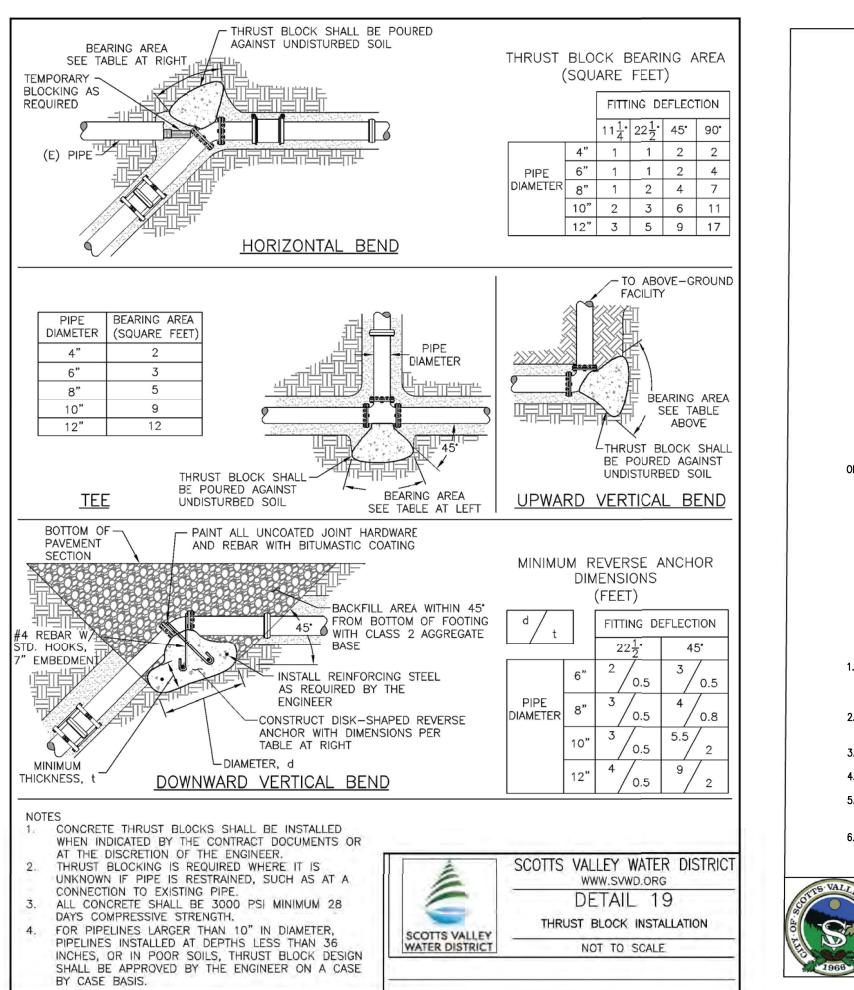
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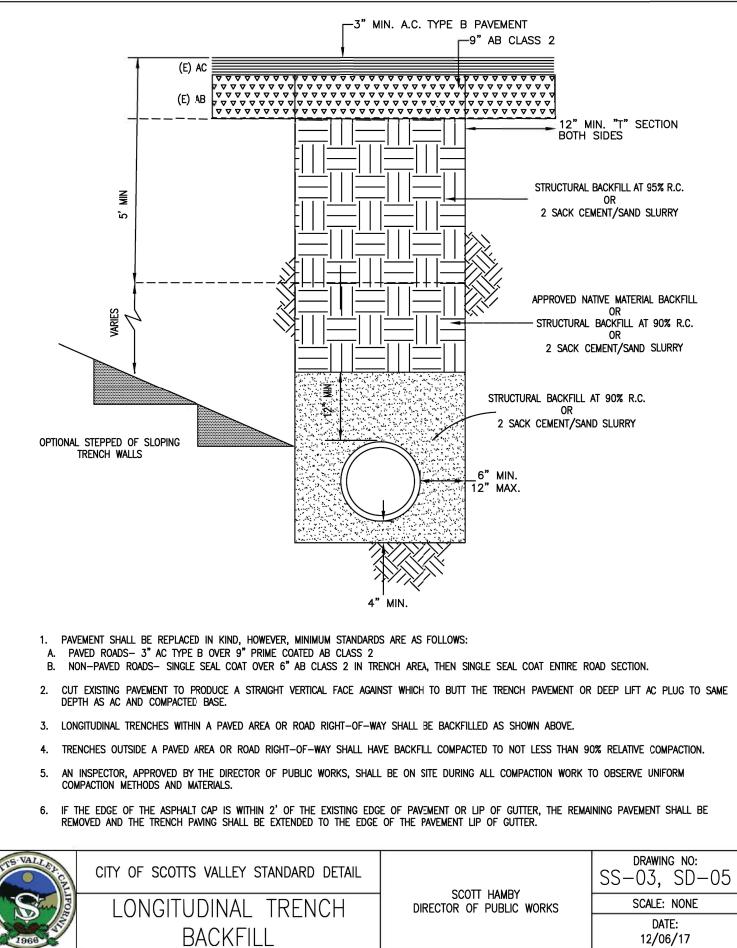


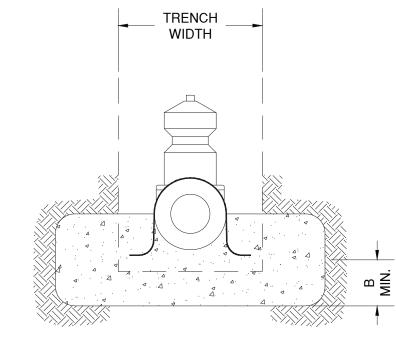


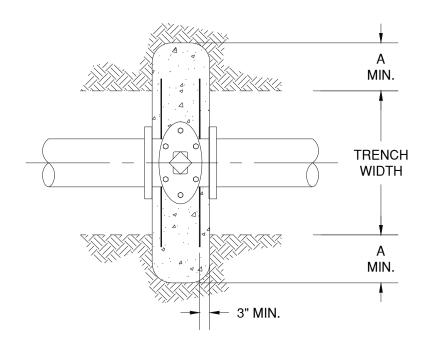












THRUST BLOCK AT GATE VALVES				
SIZE (IN)	A (IN)	B (IN)		
4	6	4		
6	6	8		
8	6	12		
10	12	18		
12	12	18		

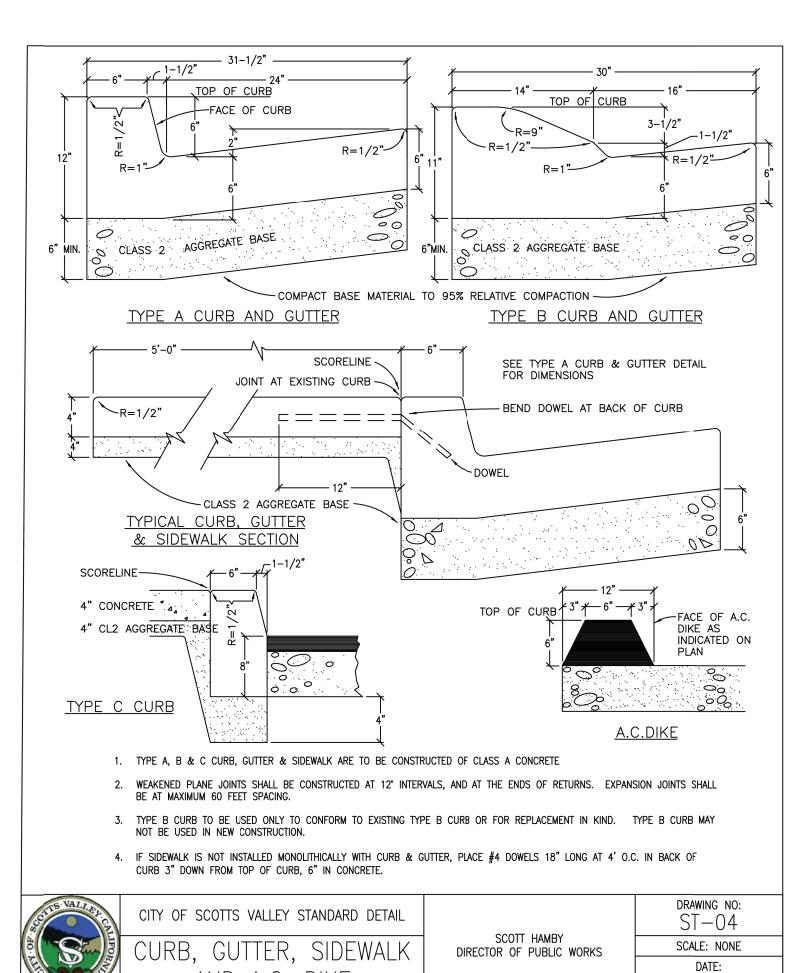
NOTES:

1. POUR CLASS A2 CONCRETE (600-C-2500) THRUST BLOCK AGAINST UNDISTURBED SOIL 2. COAT STEEL STIRRUPS NOT EMBEDDED IN CONCRETE WITH ¹/₈" MIN. THICKNESS OF NO-OX-ID

3. STEEL STIRRUPS SHALL BE GRADE 60



) DETAIL		drawing no: SS-03, SD-05		
ICH	SCOTT HAMBY DIRECTOR OF PUBLIC WORKS	SCALE: NONE		
		DATE: 12/06/17		



12/06/17

AND A.C. DIKE

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