

NOTES

1. ALL HOT TAP CONNECTIONS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER.
2. ALL HOT TAP CONNECTIONS SHALL BE AT LEAST 24" AWAY FROM ANY JOINT OR FITTING AND 18" AWAY FROM ANY OTHER TAP.
3. CONTRACTOR SHALL OPEN PURGE VALVE DURING TAPPING OPERATION.
4. SERVICE PIPING AND FITTING DIAMETERS SHALL MEET OR EXCEED THE SERVICE SIZE DESIGNATED BY THE ENGINEER.
5. TAPPING BIT SHALL BE OF THE HOLE-SAW OR SHELL TYPE.
6. COUPON OR "COOKIE" SHALL BE SUBMITTED TO THE ENGINEER UPON REQUEST.
7. IF COUPON IS LOST, CONTRACTOR SHALL FULLY OPEN SERVICE IN THE PRESENCE OF THE ENGINEER TO VERIFY FLOW.
8. CONTRACTOR SHALL COAT TAPPING SADDLE, ALL FASTENERS AND SERVICE LINE WITH BITUMASTIC AND/OR ENCASE IN POLYETHYLENE IF DIRECTED BY THE ENGINEER.
9. CONNECTIONS TO MAINS SMALLER THAN 4" SHALL BE SPECIFIED ON A CASE BY CASE BASIS.
10. SERVICE SHALL BE DISINFECTED IF REQUIRED BY THE ENGINEER.



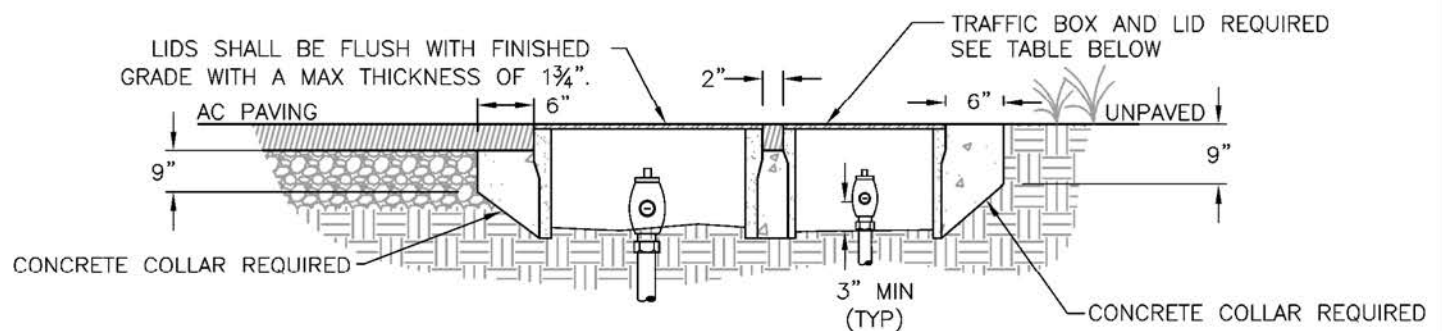
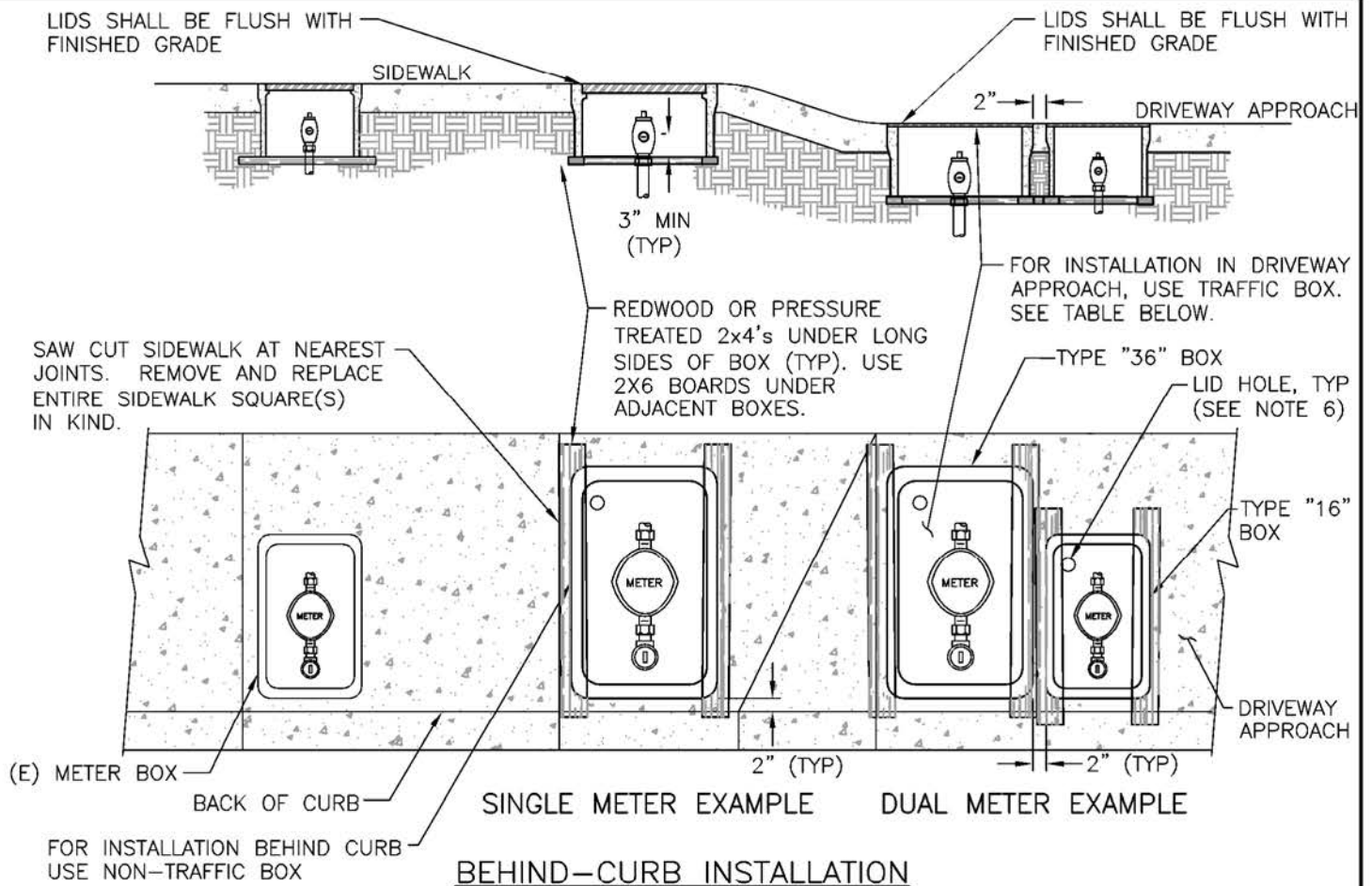
SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

DETAIL 1

SERVICE CONNECTION

NOT TO SCALE



BOX TYPE	NON-TRAFFIC	TRAFFIC
TYPE "16"	CHRISTY B16 BOX W/ B16P ⁶ LID OR EQUAL	CHRISTY B1017 BOX W/ B1017-JH LID OR EQUAL
TYPE "36"	CHRISTY B36 BOX W/ B36P ⁶ LID OR EQUAL	CHRISTY B1730 BOX W/ B1730-51JH LID OR EQUAL
TYPE "36"	" FL36T BOX W/ FL36P ⁶ LID OR EQUAL	

NOTES

1. LIDS TO BE PURCHASED FROM SVWD



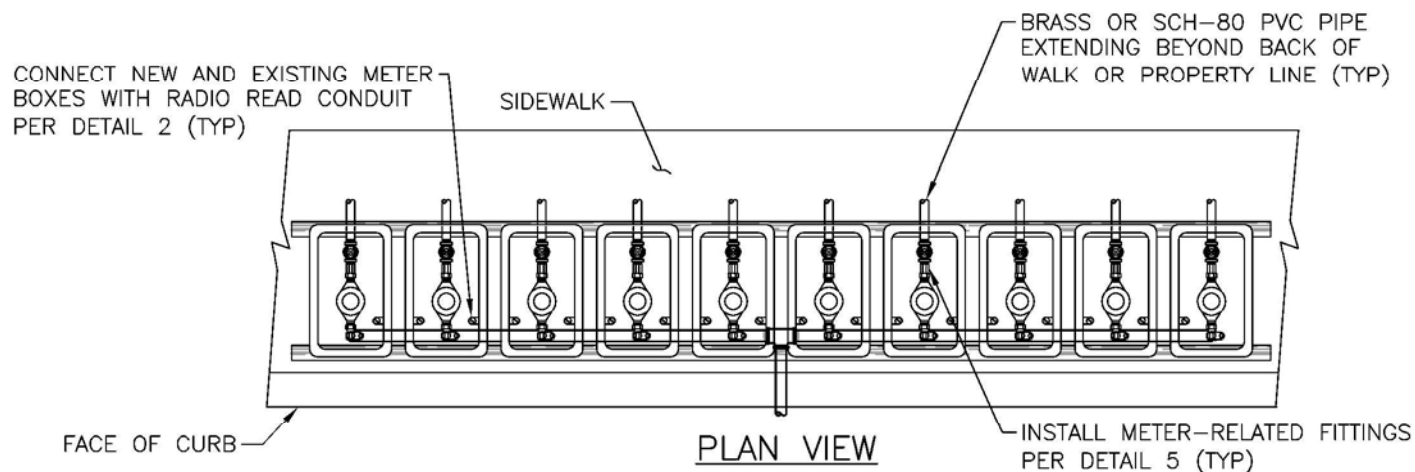
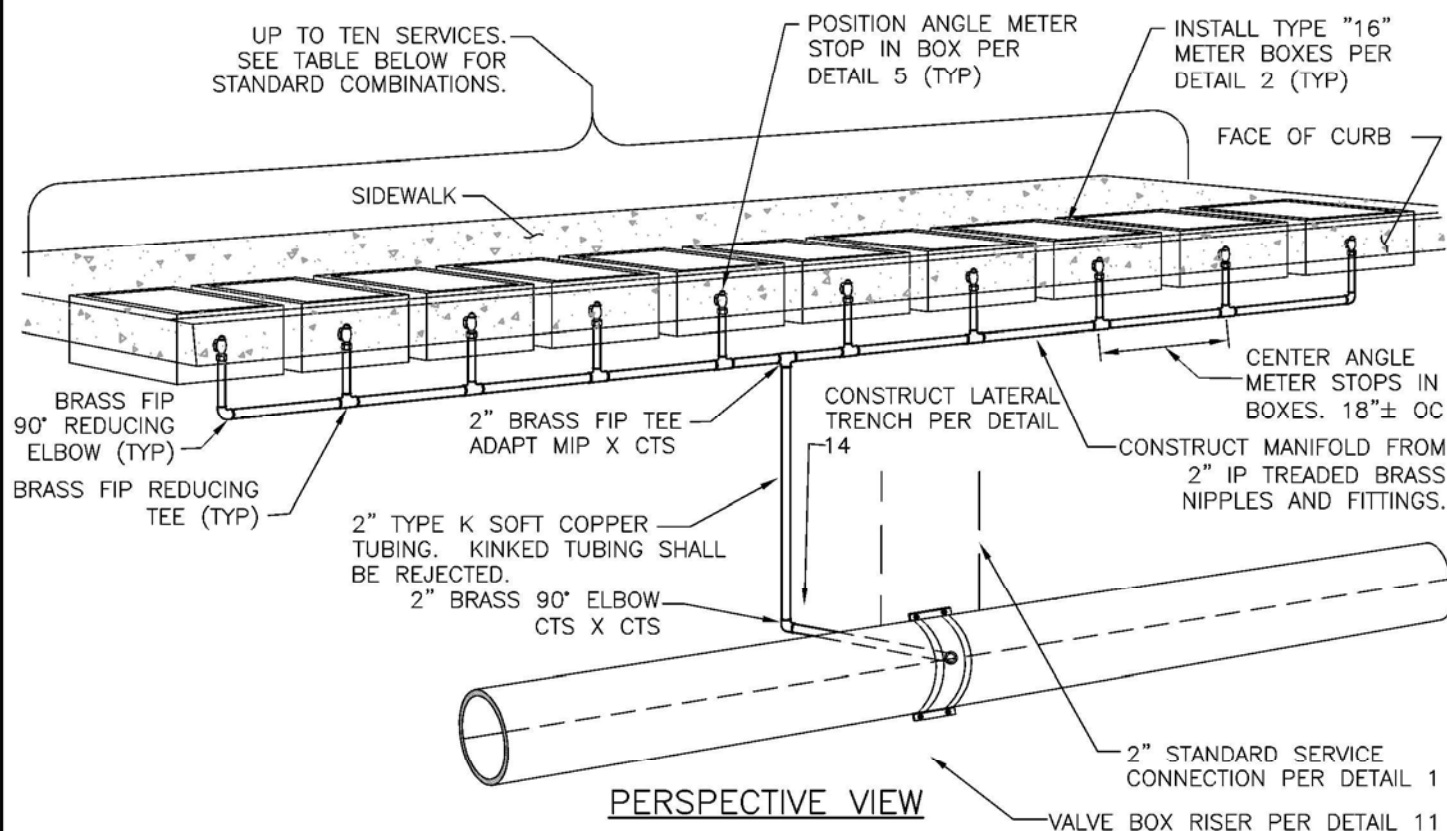
SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

DETAIL 2

METER BOX INSTALLATION

NOT TO SCALE



NUMBER OF 1-INCH SERVICES	0	1	2	3	4
MAXIMUM NUMBER OF 3/4-INCH SERVICES	10	7	5	2	0
MAXIMUM COMBINED TOTAL SERVICES	10	8	7	5	4

NOTES

- BRASS FITTINGS, VALVES AND PIPE SHALL CONSIST OF LOW-LEAD BRASS ALLOY AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.
- FIRE SERVICES SHALL NOT BE COMBINED WITH OTHER SERVICES IN THIS MANNER.
- PERMISSION TO INSTALL SERVICES IN OTHER CONFIGURATIONS NOT SHOWN HERE MAY BE GRANTED BY THE ENGINEER. IN THIS CASE, THE DEVELOPER SHALL SUBMIT CALCULATIONS WHICH DEMONSTRATE TO THE SATISFACTION OF THE ENGINEER THAT THE RESIDUAL PRESSURE IS GREATER THAN A SINGLE SERVICE WHEN ALL SERVICES ARE FULLY OPEN.



SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

DETAIL 3

1-INCH AND SMALLER MULTIPLE BRANCHED SERVICE INSTALLATION

NOT TO SCALE

INSTALL VALVE BOX AND RISER PER DETAIL 11.

INSTALL TYPE "36" METER BOX AND LID PER DETAIL 2. "FIRE" SHALL BE IMPRINTED ON LID.

METER ADAPTER AND 3/4" BRASS NIPPLE. LENGTH TO SUIT.

REDUCED PRESSURE DEVICE ON DOMESTIC SERVICE IF SITE IS SERVED BY RECYCLED WATER

BRASS OR SCH-80 PVC PIPE EXTENDING BEYOND BACK OF WALK OR PROPERTY LINE

2" FLG BALL VALVE AMS

STANDARD SERVICE CONNECTION PER DETAIL 1

2" METER FLANGES, GASKET AND 5/8" x 2-1/2" STAINLESS STEEL NUTS AND BOLTS (TYP)

6" LONG 2" BRASS NIPPLE

*2"x2" TEE REDUCED TO COMBO SERVICE SIZE

90° IP THREADED BRASS ELBOW

BRASS CTS GRIP JOINT x IP ADAPTER

2" TYPE K SOFT COPPER TUBING. KINKED TUBING SHALL BE REJECTED.

ELEVATION VIEW

CONSTRUCT LATERAL TRENCH PER DETAIL 14

DISTRICT | CUSTOMER
RESPONSIBILITY | RESPONSIBILITY

3/4" STREET ELBOW AND CORP STOP

6" LONG 3/4" BRASS NIPPLE

2"x3/4" TEE

5/8" METER SUPPLIED BY SVWD. INSTALL SVWD METER SPACER DURING CONSTRUCTION.

INSTALL TYPE "36" METER BOX AND LID PER DETAIL 2.

TWO 3/4" STREET ELBOWS

3/4" FIPxFIP CHECK VALVE

2"x3/4" TEE

CORPORATION STOP TO DOMESTIC SERVICE

BRASS OR COPPER PIPE. LENGTH TO SUIT

90° BEND AND BRASS PIPE TO DOMESTIC SERVICE CORP STOP

2" DOUBLE CHECK VALVE W/O GATE VALVES. REMOVE TEST VALVES.

2" METER FLANGES, GASKET AND 5/8" x 2-1/2" STAINLESS STEEL NUTS AND BOLTS (TYP)

INSTALL DOMESTIC SERVICE PER DETAIL 5. INSTALL METER BOX AND LID PER DETAIL 2.

DISTRICT | CUSTOMER
RESPONSIBILITY | RESPONSIBILITY

PLAN VIEW

NOTES

- * REQUIRED ONLY FOR COMBO SERVICE INSTALLATIONS.
- 1. BRASS FITTINGS, VALVES AND PIPE SHALL CONSIST OF LOW-LEAD BRASS ALLOY AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.
- 2. FIRE SERVICE LINE SHALL BE TESTED FOR LEAKS PRIOR TO BACKFILLING.
- 3. CUSTOMER SIDE FIRE SERVICE PIPE TYPE AND CONNECTION SHALL MEET LOCAL FIRE AGENCY REQUIREMENTS.
- 4. PURCHASE LIDS FROM SVWD



SCOTTS VALLEY WATER DISTRICT

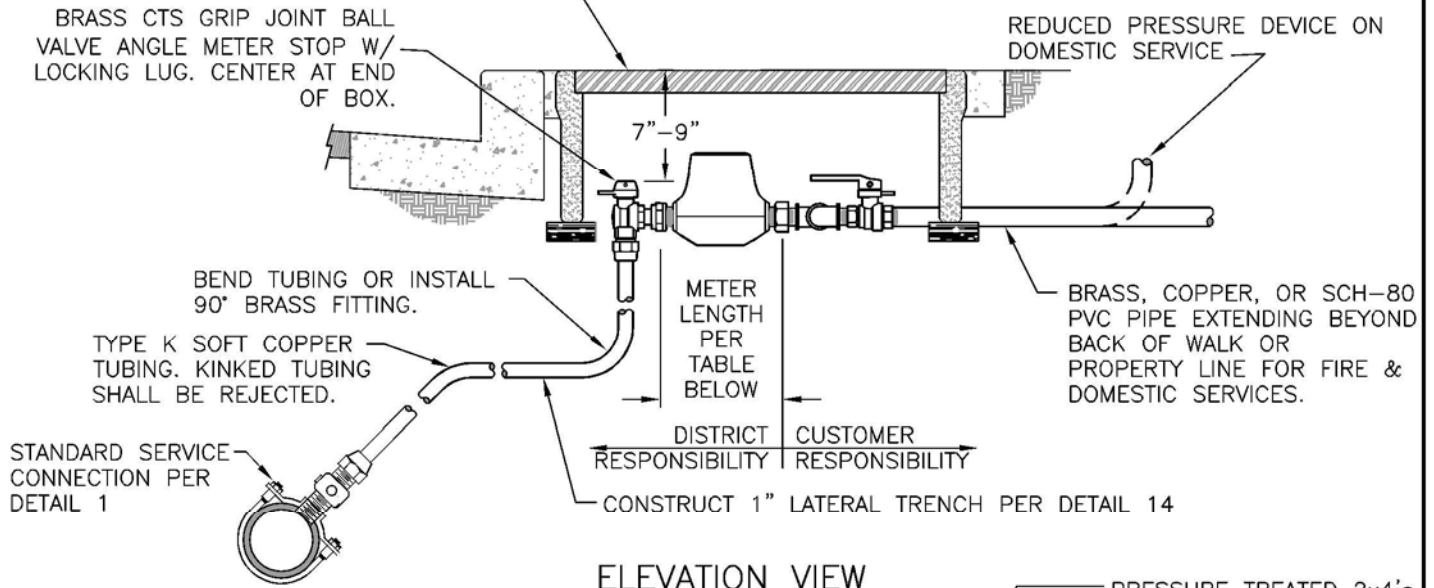
WWW.SVWD.ORG

DETAIL 4

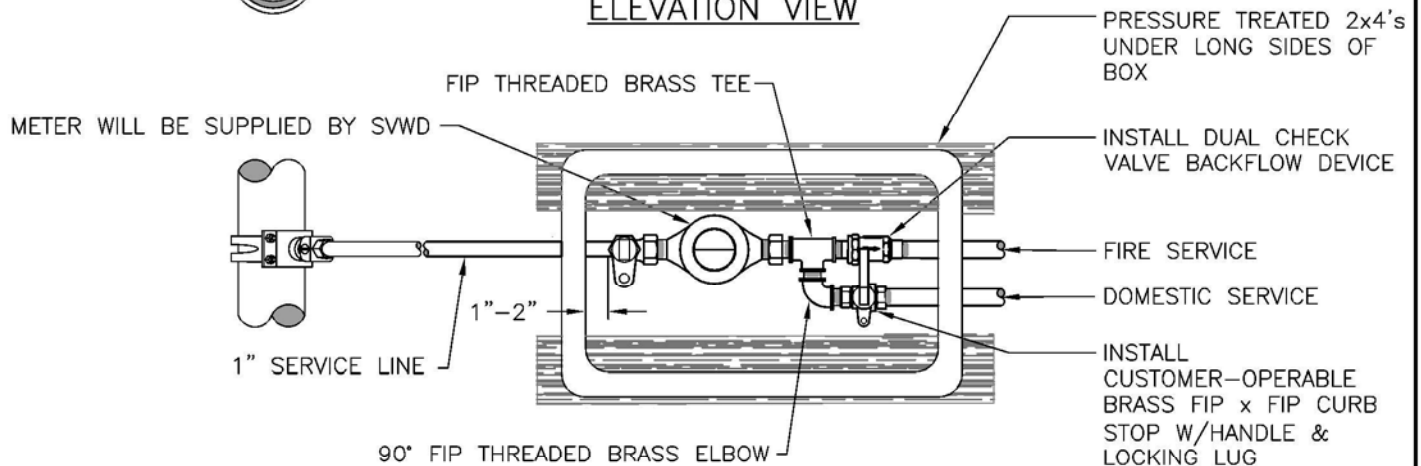
COMBINATION 2-INCH FIRE AND DOMESTIC SERVICE INSTALLATION

NOT TO SCALE

INSTALL METER BOX PER TABLE BELOW.
"WATER" SHALL BE IMPRINTED ON THE LID.



ELEVATION VIEW



PLAN VIEW

METER	BOX TYPE	METER LENGTH	MAX SPRINKLER DEMAND
3/4" THREADED	"16"	7 3/4"	30 GPM W/ 3/4" SERVICE

BOX TYPE	NON-TRAFFIC	TRAFFIC
TYPE "16"	CHRISTY B16 BOX W/ N16R LID OR EQUAL	CHRISTY B1324 BOX W/ B1324-51JH LID OR EQUAL

PERMITTED USES

- HIGH-DENSITY DEVELOPMENTS (APARTMENTS, CONDOMINIUMS, MULTI-FAMILY, ETC.). SERVED BY RECYCLED WATER.
- SINGLE FAMILY RESIDENCES THAT ARE REQUIRED TO INSTALL A 3/4" METER TO MEET FIXTURE COUNT (HOUSEHOLD) DEMAND.

DETAIL NOTES

- BRASS FITTINGS, VALVES AND PIPE SHALL CONSIST OF LOW-LEAD BRASS ALLOY AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.
- FIRE SERVICE LINE SHALL BE TESTED FOR LEAKS PRIOR TO BACKFILLING.
- CUSTOMER SIDE FIRE SERVICE PIPE TYPE AND CONNECTION SHALL MEET FIRE DISTRICT REQUIREMENTS.



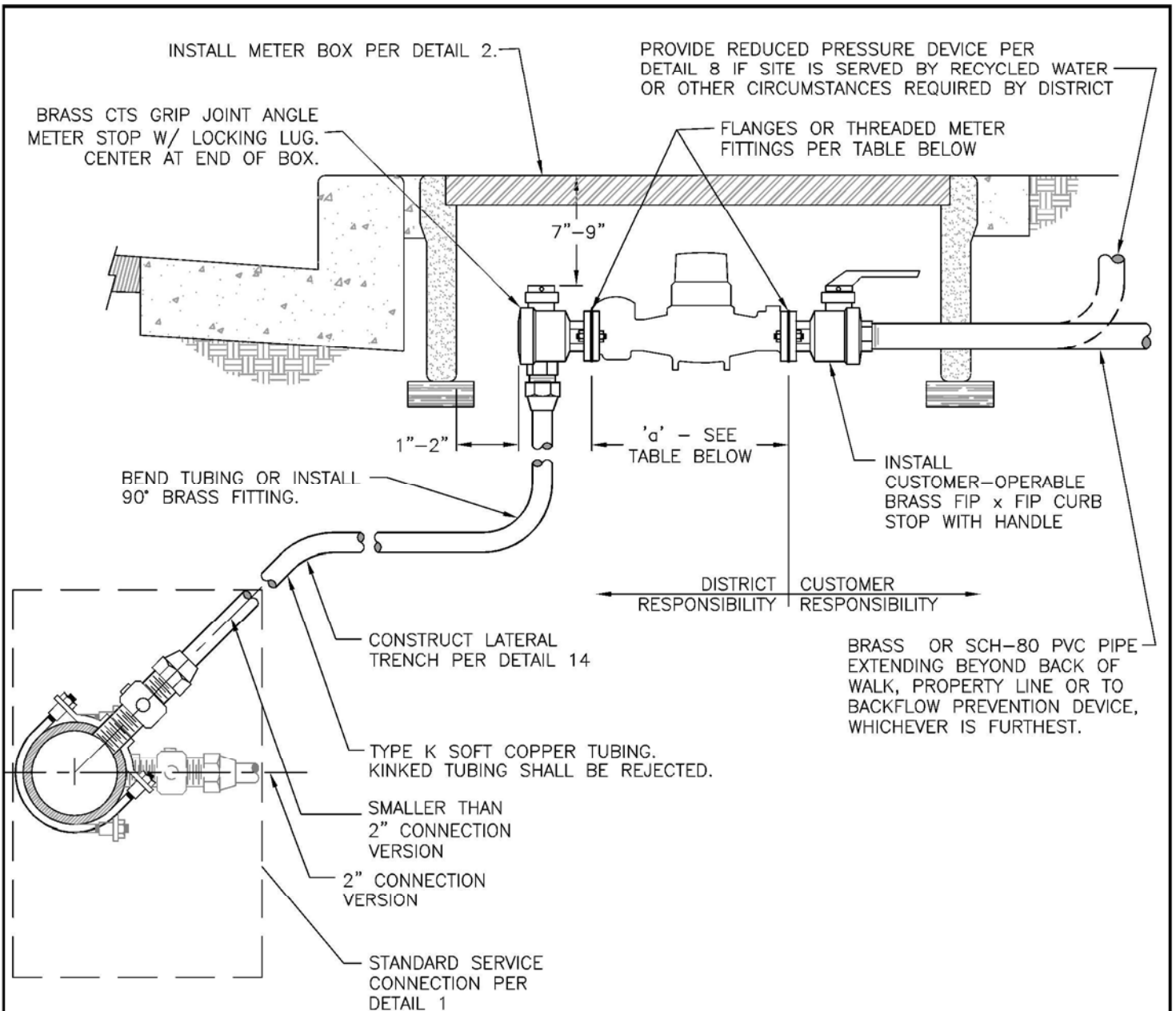
SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

DETAIL 4A

COMBINATION 3/4-INCH FIRE AND DOMESTIC SERVICE INSTALLATION

NOT TO SCALE



METER SIZE AND TYPE (ASSIGNED BY SVWD)	BOX TYPE (SEE DETAIL 2)	METER LENGTH, a
5/8" THREADED	"16"	7 3/4"
3/4" THREADED	"16"	7 3/4"
1" THREADED	"16"	11"
1 1/2" FLANGED	"36"	13"
2" FLANGED	"36"	15 1/4"

NOTES

- BRASS FITTINGS, VALVES AND PIPE SHALL CONSIST OF LOW-LEAD BRASS ALLOY AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.
- METER WILL BE FURNISHED AND INSTALLED BY DISTRICT
- A BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED PER DETAIL 8 IF REQUIRED BY THE ENGINEER.



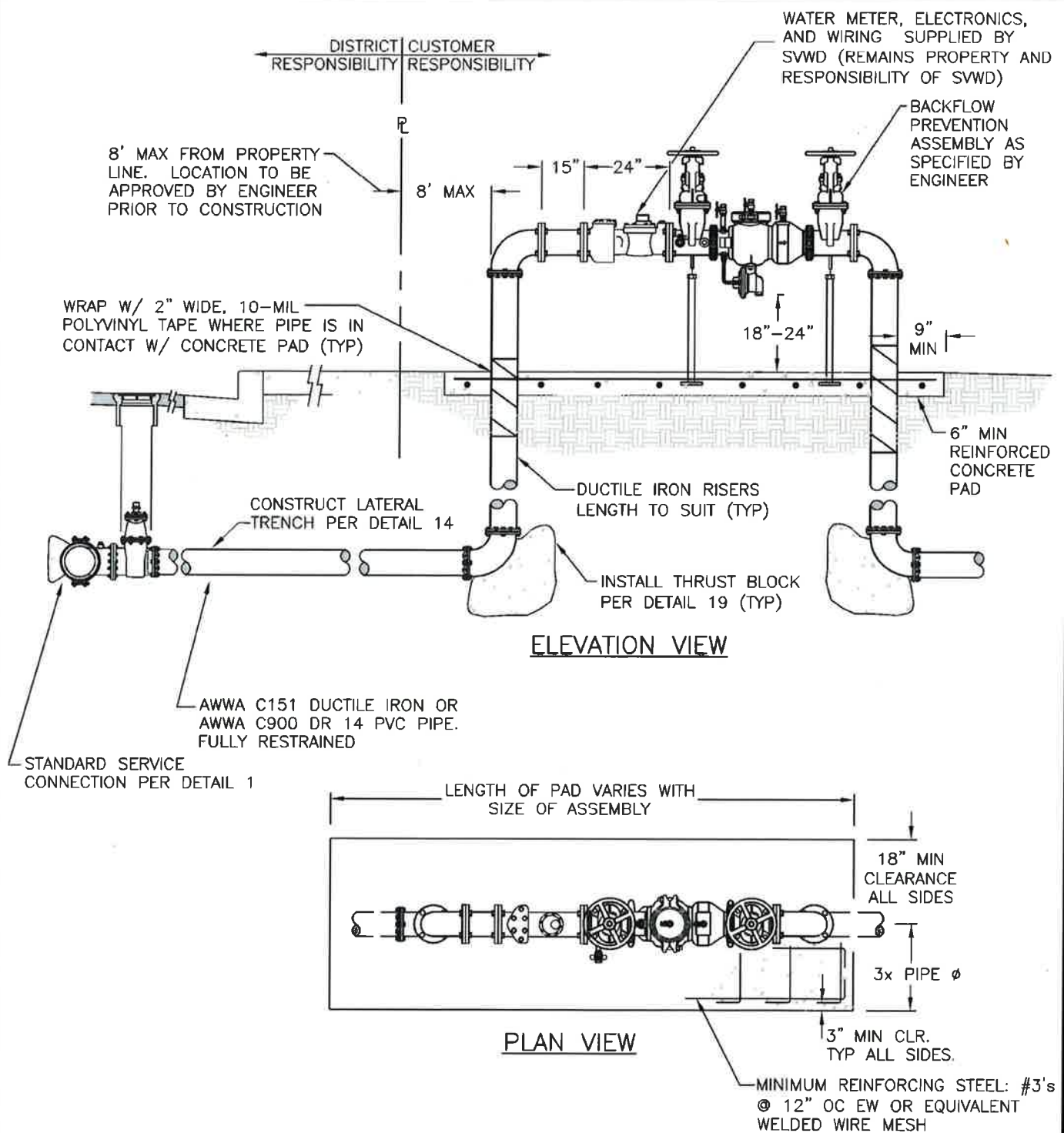
SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

DETAIL 5

2-INCH AND SMALLER SERVICE
INSTALLATION

NOT TO SCALE



NOTES

1. LOCATION OF ASSEMBLY SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
2. INSTALL TRAFFIC BOLLARD(S) PER DETAIL 20 IF REQUIRED BY ENGINEER



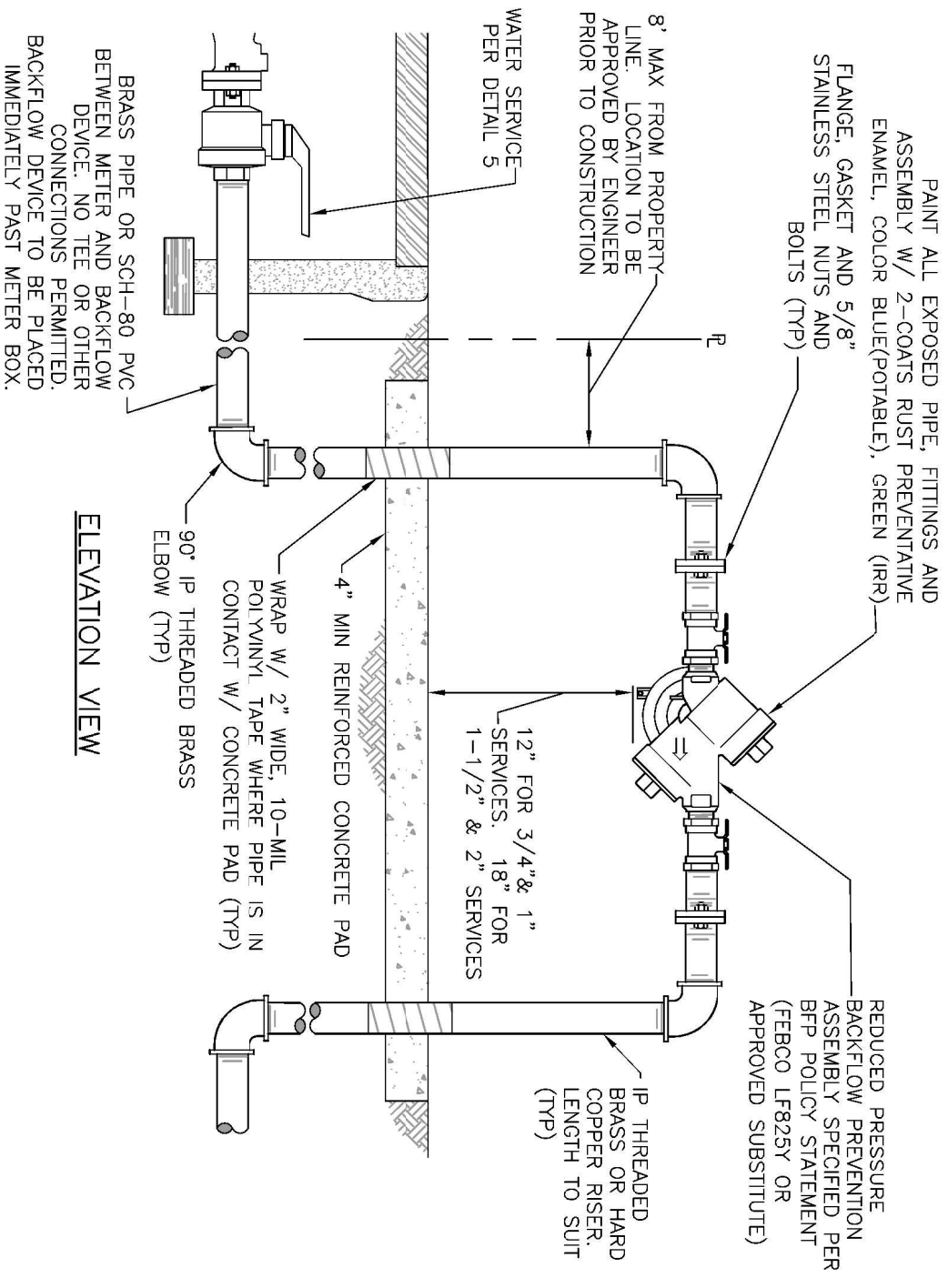
SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

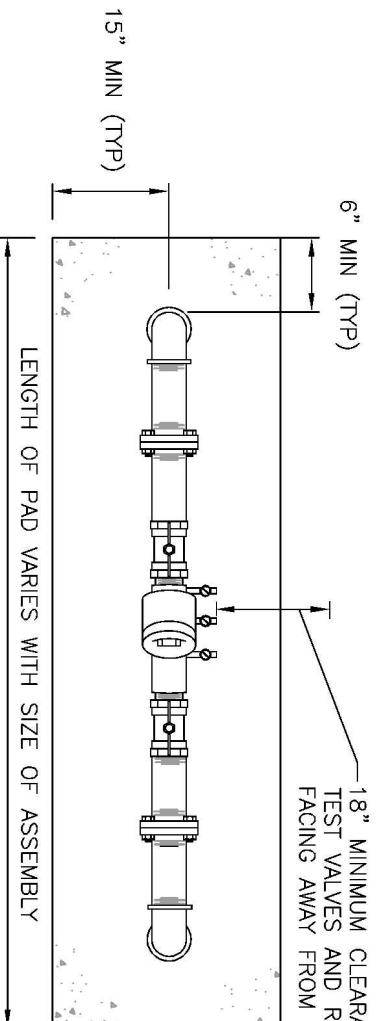
DETAIL 6

3-INCH AND LARGER SERVICE
INSTALLATION

NOT TO SCALE



ELEVATION VIEW



PLAN VIEW

NOTES

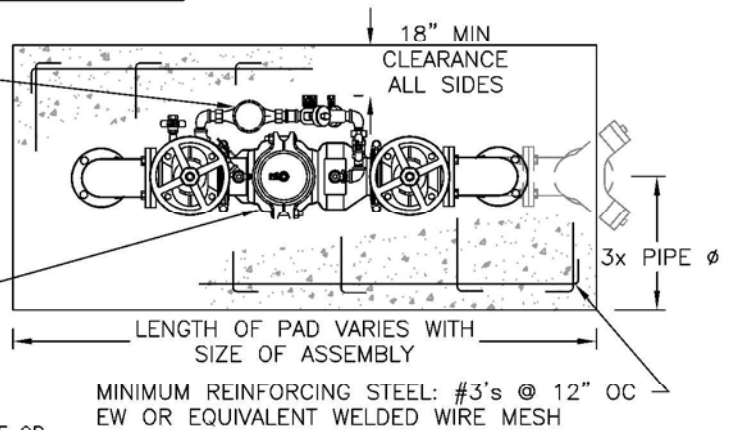
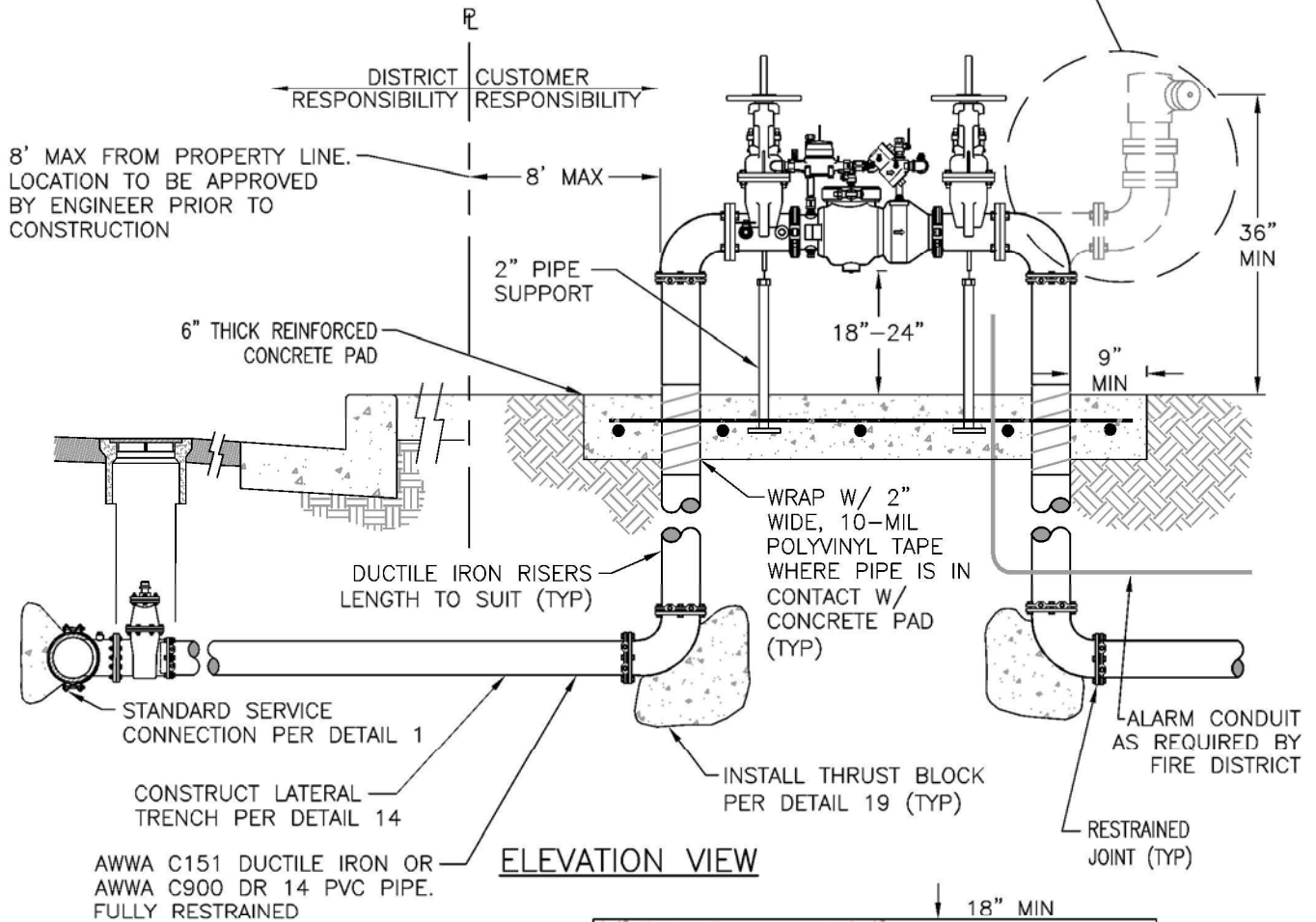
1. APPROVED BACKFLOW ASSEMBLY SHALL BE INSTALLED SUCH THAT IT IS ABOVE GROUND AND READILY ACCESSIBLE FOR REPAIR AND INSPECTION.
2. BRASS FITTINGS, VALVES AND PIPE SHALL CONSIST OF LOW-LEAD BRASS ALLOY AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.
3. BRASS OR PLASTIC PLUGS SHALL BE INSTALLED ON ALL TEST PORTS.
4. ALL ABOVE GROUND PIPE, FITTINGS AND ASSEMBLY SHOULD BE PAINTED WITH TWO COATS OF ENAMEL.
5. AN ENCLOSURE OR CAGE MAY BE INSTALLED AT THE OPTION OF THE PROPERTY OWNER.



SCOTTS VALLEY WATER DISTRICT
www.svwd.org

DETAIL 8
2-INCH AND SMALLER BACKFLOW
PREVENTION ASSEMBLY INSTALLATION
NOT TO SCALE

FIRE DEPARTMENT CONNECTION AS REQUIRED BY FIRE DISTRICT W/ CLAPPERED SIAMESE, LISTED SCREW-IN PLUGS WITH PIN-LUGS, AND CHECK VALVE. FACE CLAPPERED SIAMESE TOWARD STREET, AWAY FROM OBSTRUCTIONS.



NOTES

1. REFER TO PROJECT CIVIL PLAN FOR REQUIRED TYPE OF DEVICE OR CONTACT ENGINEER FOR SPECIFIED TYPE PRIOR TO SCHEDULING INSTALLATION.
2. O.S. AND Y. VALVES SHALL BE EQUIPPED WITH TAMPER PROOF ALARM DEVICES. VALVES ARE TO BE CHAINED TOGETHER IN THE OPEN POSITION WITH A BREAK-AWAY CHAIN OR AS REQUIRED BY FIRE DISTRICT.
3. ASSEMBLY TO BE PAINTED RED OR OTHER COLOR AS SPECIFIED BY FIRE DISTRICT.
4. DEVICE MUST BE INSTALLED SO THAT IT IS READILY ACCESSIBLE FOR TESTING AND MAINTENANCE.
5. LOCATIONS MUST BE APPROVED BY SVWD PRIOR TO INSTALLATION.
6. INSTALL TRAFFIC BOLLARDS (2 MIN) PER DETAIL 20 WHEN EDGE OF VEHICULAR TRAFFIC IS LESS THAN 36" FROM ASSEMBLY.
7. BRASS OR PLASTIC PLUGS SHALL BE INSTALLED ON ALL TEST PORTS.



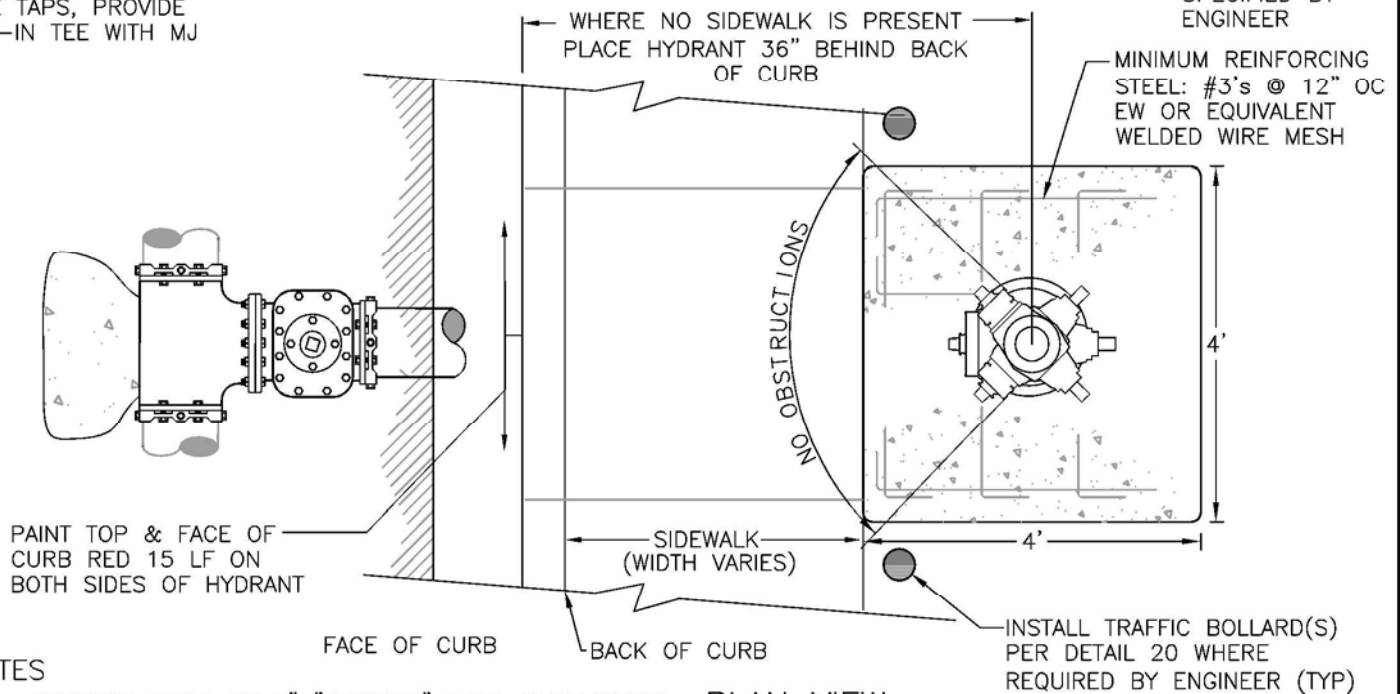
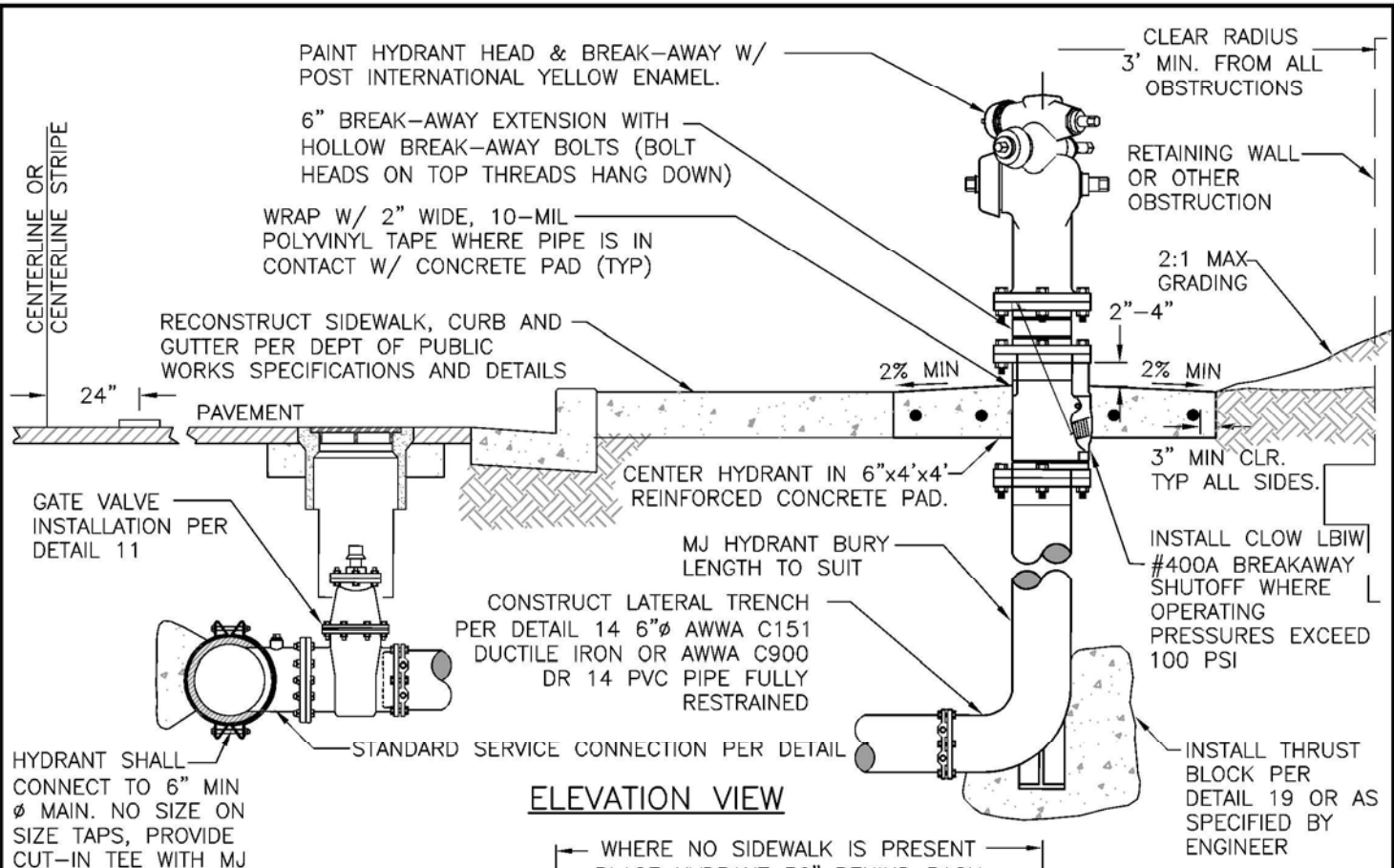
SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

DETAIL 9

STANDARD 4-INCH AND LARGER FIRE SERVICE INSTALLATION

NOT TO SCALE



NOTES

1. HYDRANT SHALL BE 6" "STEAMER" TYPE; CLOW MODEL 860, OR APPROVED EQUAL.
2. REMOVE HYDRANT OUTLET CAP CHAINS PERMANENTLY.
3. HYDRANT SHALL BE COVERED WITH BURLAP SACK OR APPROVED ORANGE BAG WHEN NOT IN SERVICE.
4. FIRE HYDRANT LOCATION SHALL BE APPROVED ON A CASE BY CASE BASIS PRIOR TO CONSTRUCTION AND SHALL INCLUDE FIRE AGENCY APPROVED PLANS, CITY OR COUNTY ENCROACHMENT PERMIT, AND FIELD VERIFICATION BY THE APPROPRIATE FIRE AGENCY, CITY OR COUNTY PUBLIC WORKS DEPARTMENT AND SVWD, PER SVWD HYDRANT INSTALLATION PERMIT REQUIREMENTS PRIOR TO CONSTRUCTION.
5. SEE APPENDIX 1 FOR FURTHER HYDRANT INSTALLATION REQUIREMENTS.



SCOTTS VALLEY WATER DISTRICT
WWW.SVWD.ORG

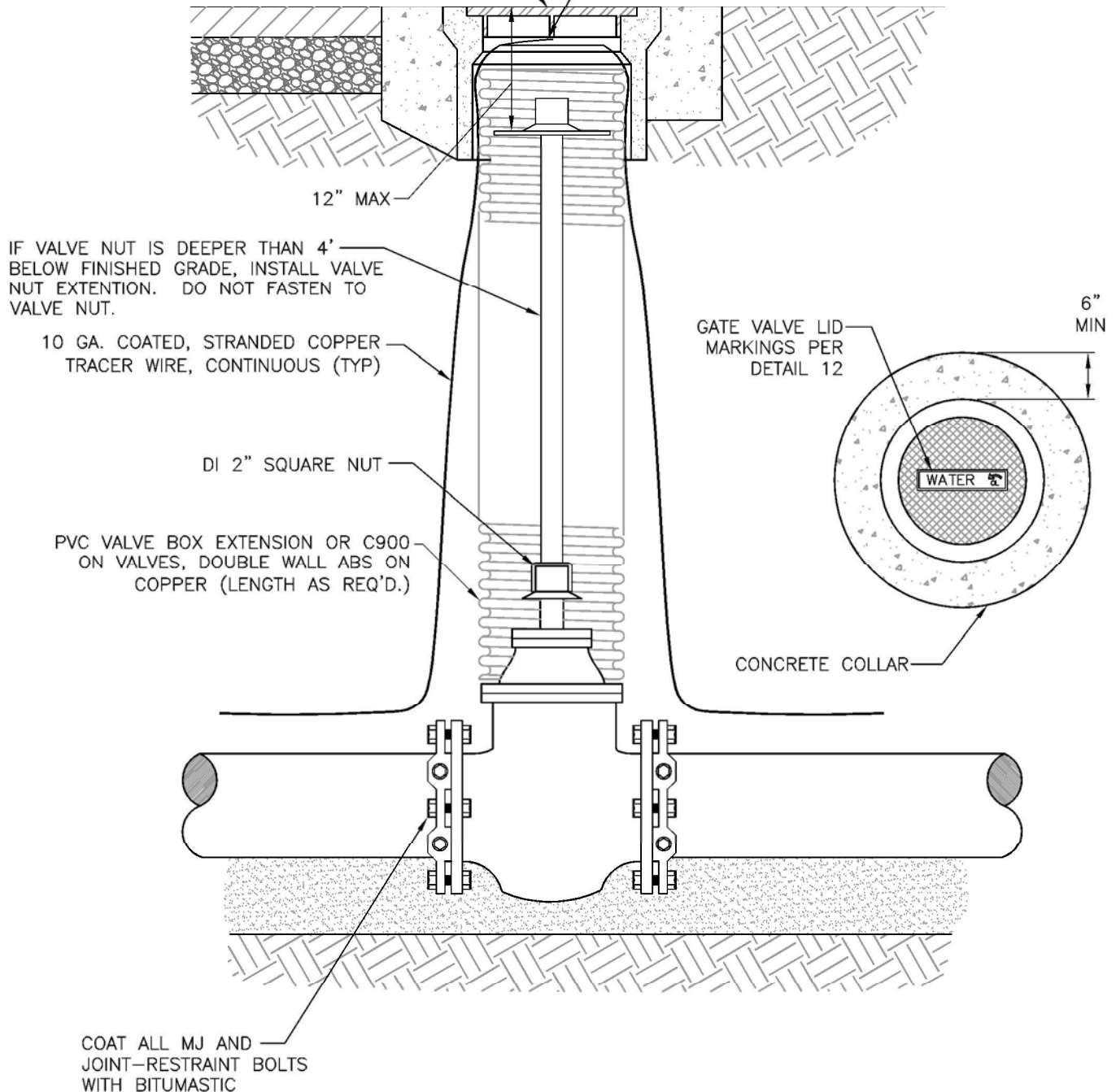
DETAIL 10

FIRE HYDRANT INSTALLATION

NOT TO SCALE

INSTALL CHRISTY G-5 VALVE BOX W/GSC LID OR EQUAL. VALVE BOX AND RISER CENTERED OVER GATE VALVE OR CORPORATION STOP VALVE AND ALIGNED WITH VALVE STEM AXIS. GRADE RINGS PROHIBITED

PROVIDE TESTING CONNECTION FOR TRACER WIRE



NOTES

1. INSTALL BLOCKING UNDER VALVE IF REQUIRED.
2. RISER TERMINATION FOR GATE VALVE SHALL OCCUR AT VALVE FLANGE.
3. RISER TERMINATION FOR SERVICE CONNECTION (2" & SMALLER) SHALL OCCUR 1" BELOW CORP STOP.
4. VALVE BOX LID SHALL BE OILED PRIOR TO PAVING OR CLEANING TO ENSURE THAT LID MARKINGS ARE LEGIBLE.
5. INSTALL VALVE BOX LID FLUSH WITH FINAL PAVING OR GROUND SURFACE.



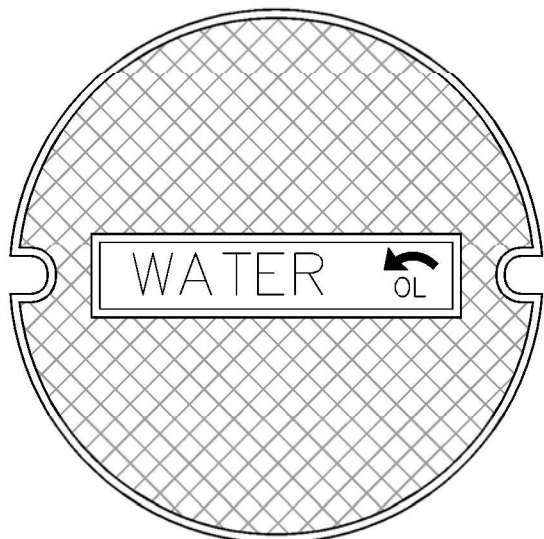
SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

DETAIL 11

GATE VALVE INSTALLATION

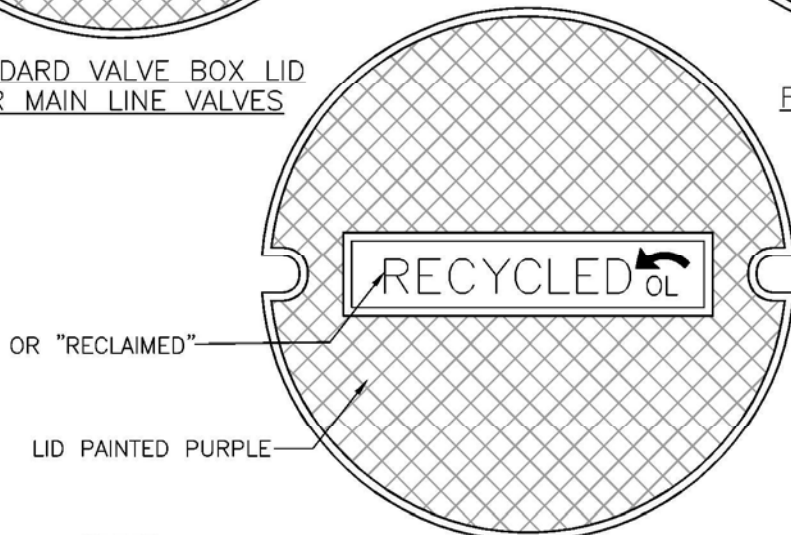
NOT TO SCALE



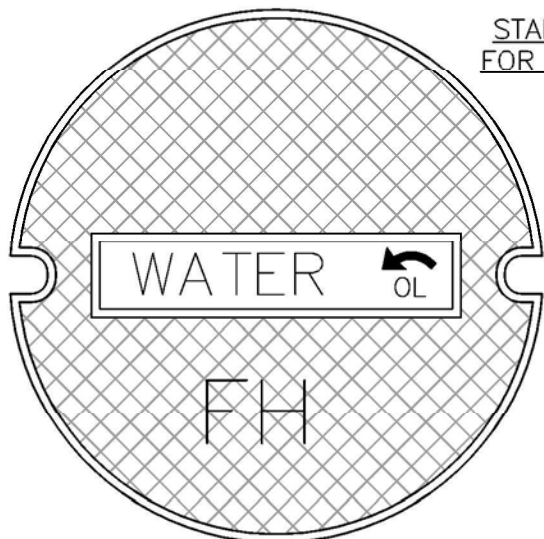
STANDARD VALVE BOX LID
FOR MAIN LINE VALVES



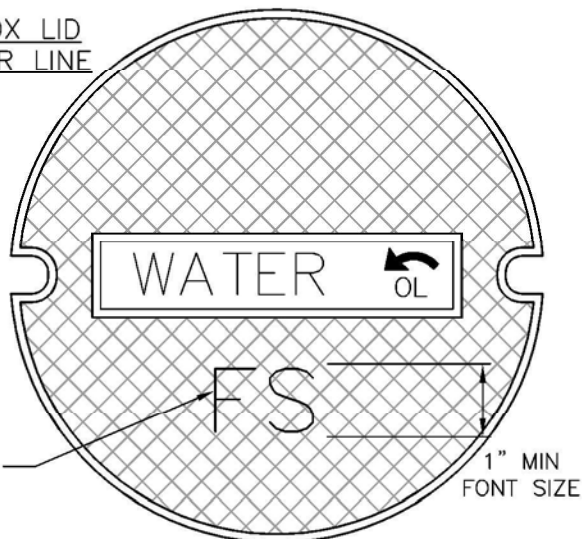
STANDARD VALVE BOX LID
FOR ALL NORMALLY CLOSED
ZONE VALVES



STANDARD VALVE BOX LID
FOR RECYCLED WATER LINE
VALVES



STANDARD VALVE BOX LID FOR
ALL FIRE HYDRANT VALVES



STANDARD VALVE BOX LID
FOR ALL FIRE SERVICES

LABELING OPTIONS	LABEL	LID COLOR
BUTTERFLY VALVE	BFV	BLUE
BLOW OFF VALVE	BO	BLUE
TEST STATION	TS	BLUE
ZONE VALVE	ZV	BLUE
FIRE SERVICE	FS	BLUE
FIRE HYDRANT	FH	YELLOW
RAW WATER	RAW	TAN
RECYCLED WATER	REC	PURPLE



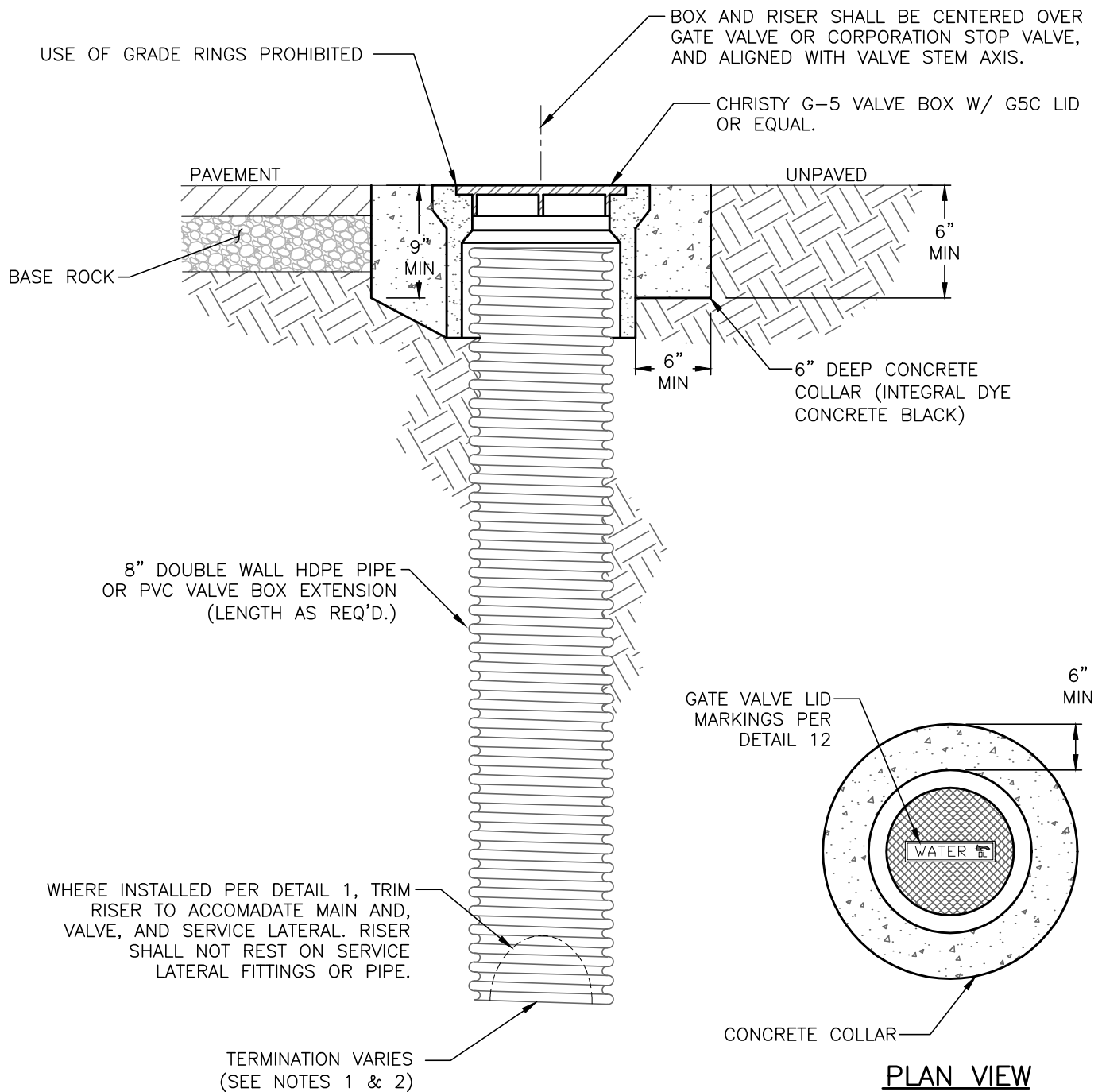
SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

DETAIL 12

VALVE BOX LID MARKINGS

NOT TO SCALE



NOTES

1. RISER TERMINATION FOR GATE VALVE INSTALLATION SHALL OCCUR AT VALVE FLANGE (SEE DETAIL 11).
2. RISER TERMINATION FOR SERVICE CONNECTION (2" & SMALLER) SHALL OCCUR 1" BELOW CORP STOP.
3. VALVE BOX LID SHALL BE OILED PRIOR TO PAVING OR CLEANING TO ENSURE THAT LID MARKINGS ARE LEGIBLE.
4. INSTALL VALVE BOX LID FLUSH WITH FINAL PAVING OR GROUND SURFACE.



SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

DETAIL 13

VALVE BOX INSTALLATION

NOT TO SCALE



1. IF ANY PORTION OF (E) PAVEMENT WITHIN SAWCUT LIMITS IS CONCRETE AT THE SURFACE, ENTIRE TRENCH SHALL BE RE-PAVED WITH CONCRETE AS SHOWN.
2. WHERE WATER SERVICES 6" AND LARGER CANNOT MEET MINIMUM COVER REQUIREMENTS, THE ENGINEER MAY APPROVE ALTERNATE INSTALLATION PER DETAIL 16.
3. ALL JOINTS ON SERVICE LATERALS SHALL BE RESTRAINED.



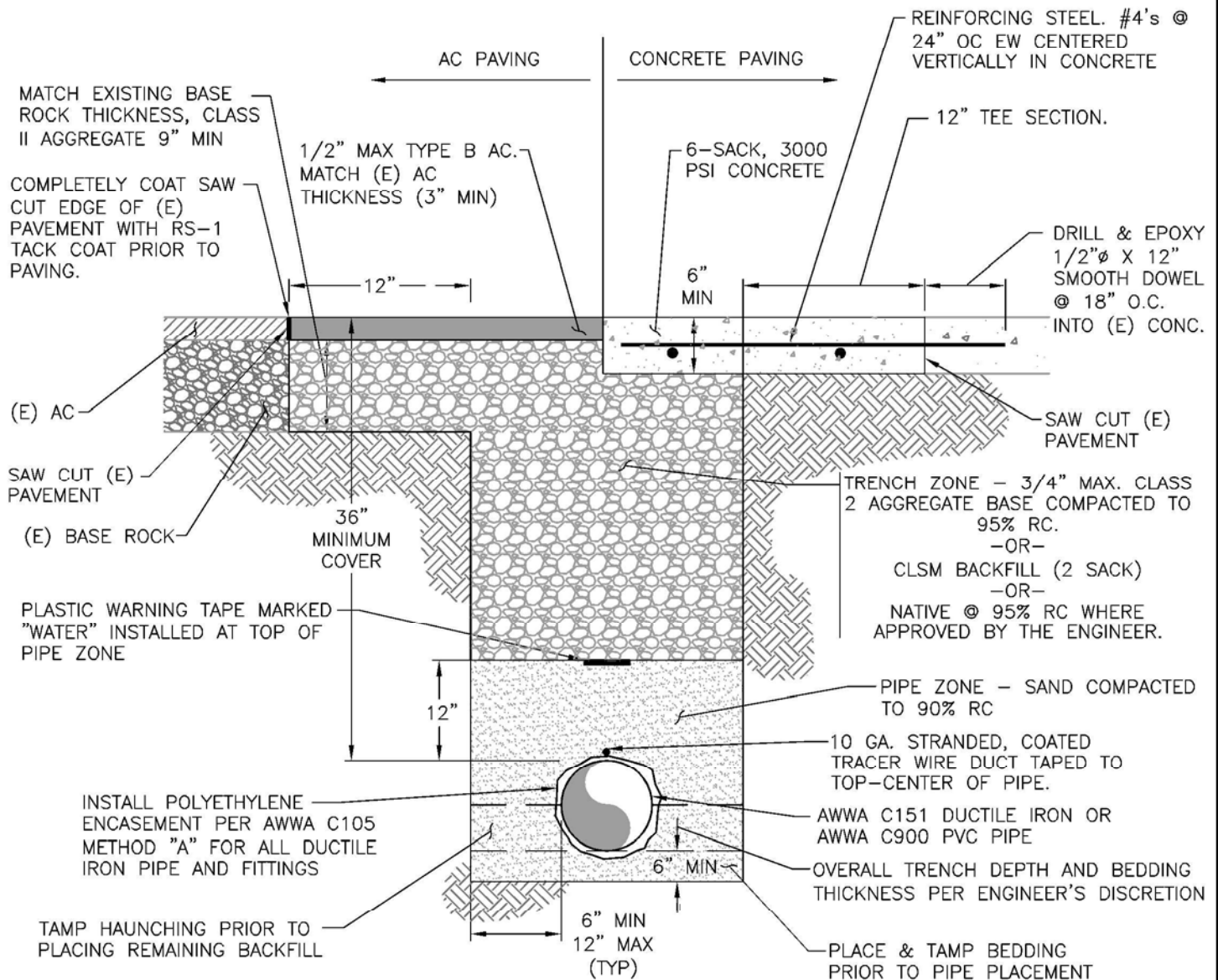
SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

DETAIL 14

STANDARD SERVICE LATERAL TRENCH

NOT TO SCALE



STANDARD WATER MAIN TRENCH

NOTES

1. IF ANY PORTION OF (E) PAVEMENT WITHIN SAWCUT LIMITS IS CONCRETE AT THE SURFACE, ENTIRE TRENCH SHALL BE RE-PAVED WITH CONCRETE AS SHOWN,
2. WHERE WATER MAIN INSTALLATION CANNOT MEET MINIMUM COVER REQUIREMENTS, THE ENGINEER MAY APPROVE ALTERNATE INSTALLATION PER DETAIL 16.
3. REFER TO SVWD TECHNICAL SPECIFICATIONS FOR COMPACTION TESTING REQUIREMENTS.
4. FOR SERVICE LATERALS, REFER TO DETAIL 14.



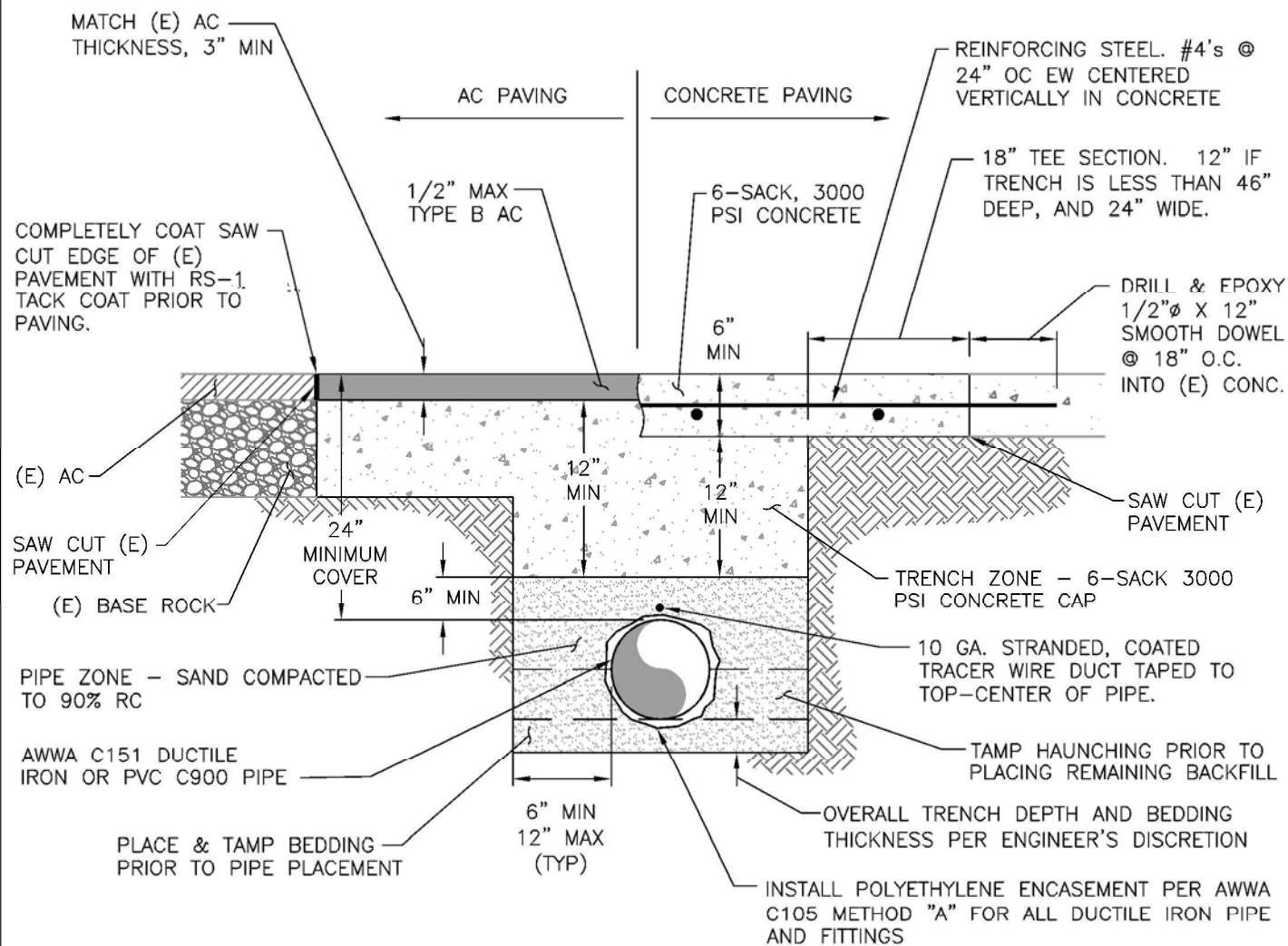
SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

DETAIL 15

STANDARD WATER MAIN TRENCH

NOT TO SCALE



WATER MAIN TRENCH

FOR MAINS INSTALLED AT SUB-STANDARD DEPTH

NOTES

1. USE OF THIS DETAIL REQUIRES PRIOR APPROVAL OF THE ENGINEER. REFER TO DETAIL 15 FOR STANDARD TRENCH
2. IF ANY PORTION OF (E) PAVEMENT WITHIN SAWCUT LIMITS IS CONCRETE AT THE SURFACE, ENTIRE TRENCH SHALL BE RE-PAVED WITH CONCRETE AS SHOWN,
3. REFER TO SVWD TECHNICAL SPECIFICATIONS FOR COMPACTION TESTING REQUIREMENTS.
4. FOR SERVICE LATERALS REFER TO DETAIL 14.

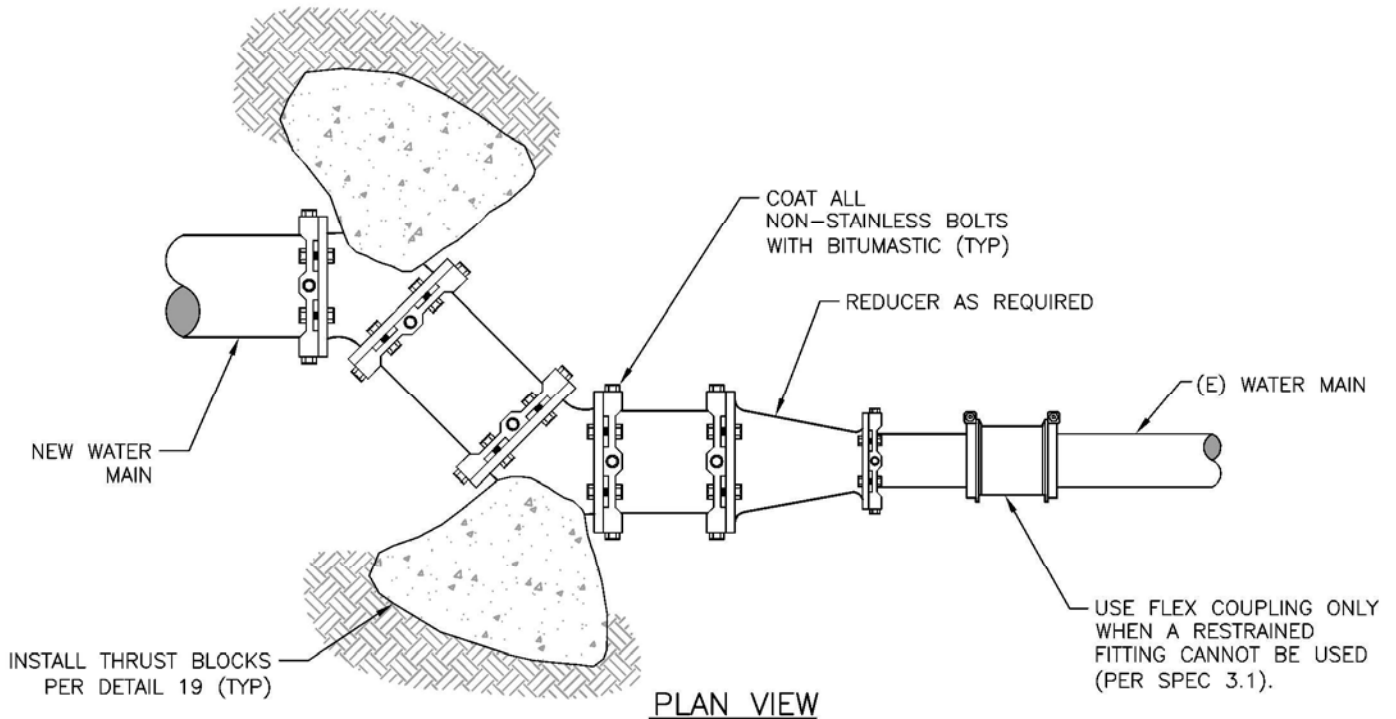
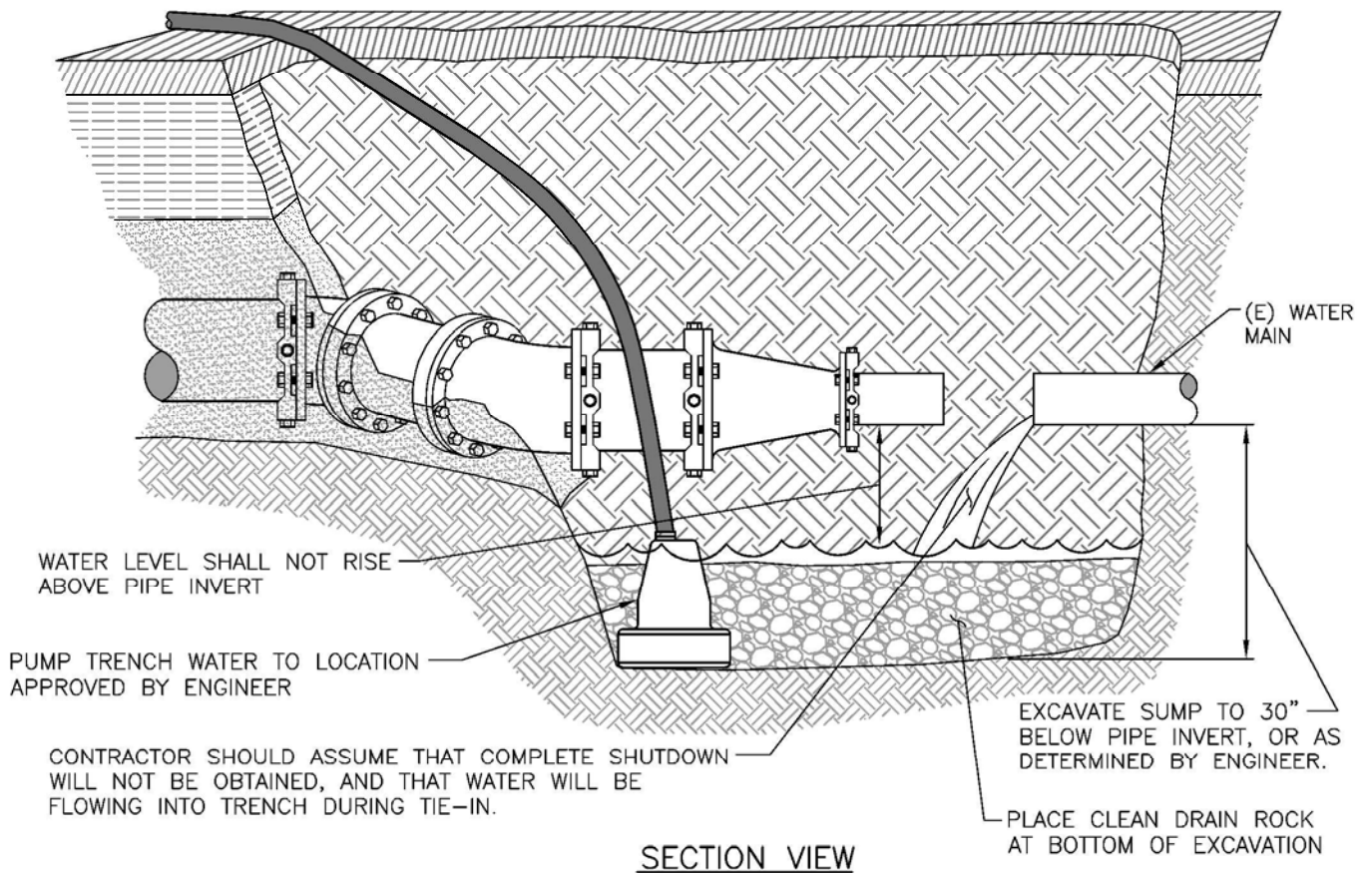


SCOTTS VALLEY WATER DISTRICT
WWW.SVWD.ORG

DETAIL 16

SUB-STANDARD WATER MAIN TRENCH

NOT TO SCALE



NOTES

1. CONTRACTOR SHALL VERIFY (E) MAIN DIAMETER PRIOR TO SCHEDULING SYSTEM SHUT DOWN.
2. ELBOWS SHARPER THAN 45° ARE NOT ALLOWED.
3. PIPE AND FITTING SIZES & MATERIAL SHALL BE SPECIFIED BY ENGINEER.
4. JOINT RESTRAINTS AND THRUST BLOCKING PER DETAILS 19 AND 20 ARE REQUIRED.
5. TEMPORARY THRUST BLOCKING MAY BE REQUIRED WHILE CONCRETE CURES.



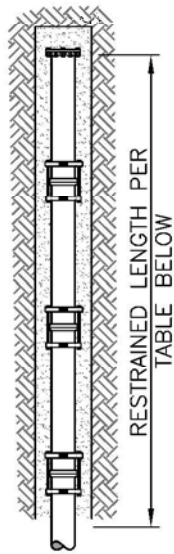
SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

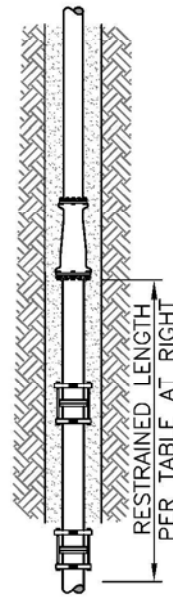
DETAIL 17

SYSTEM CONNECTION (TIE IN)

NOT TO SCALE



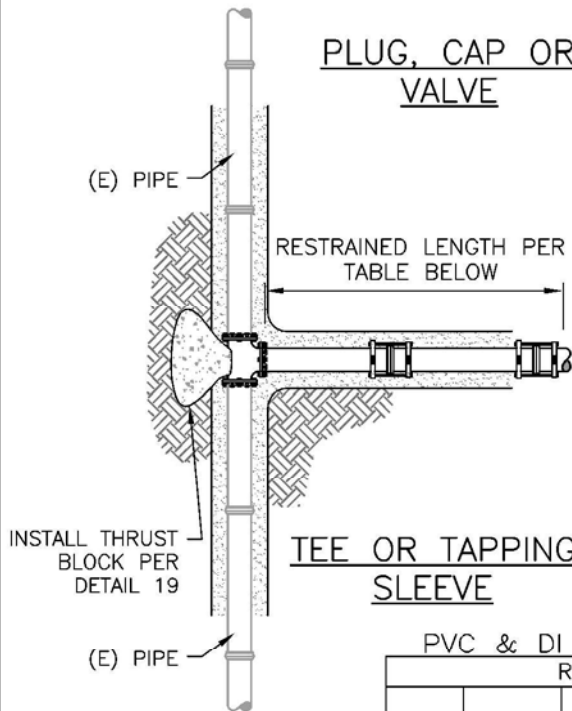
DIFFERENCE IN PIPE DIAMETER	REQUIRED RESTRAINT LENGTH (FT)
4"	35'
6"	45'
8"	60'
10"	75'
12"	90'



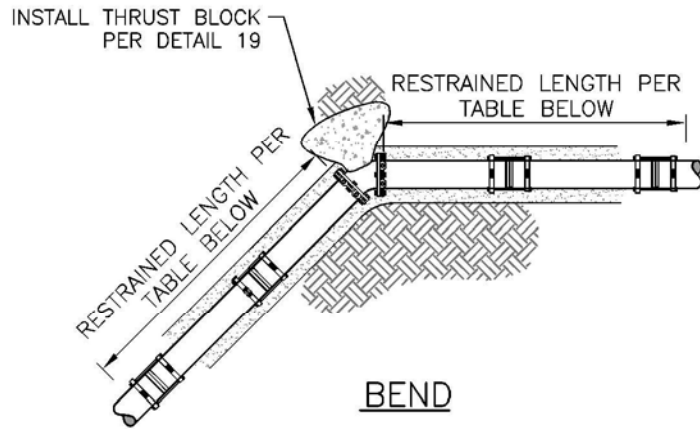
DIFFERENCE IN PIPE DIAMETER	REQUIRED RESTRAINT LENGTH (FT)
4"	25'
6"	50'
8"	65'
10"	80'
12"	100'

PLUG, CAP OR VALVE

REDUCER



TEE OR TAPPING SLEEVE



BEND

PVC & DI PIPE JOINT RESTRAINT SIZING TABLE
REQUIRED RESTRAINT DISTANCE (FT.)

PIPE DIA.	TEE BRANCH	VERTICAL BEND			HORIZONTAL BEND			
		11 1/4°	22 1/2°	45°	11 1/4°	22 1/2°	45°	90°
4	20	20	20	40	20	20	20	20
6	20	20	20	40	20	20	20	20
8	20	20	20	40	20	20	20	40
10	20	20	20	40	20	20	20	60
12	20	20	20	40	20	20	20	60

NOTES

1. ALL UNCOATED JOINT RESTRAINT AND FITTING HARDWARE SHALL BE COATED WITH BITUMASTIC.
2. THRUST BLOCKING PER DETAIL 19 IS REQUIRED.
3. SERVICE LATERALS SHALL BE FULLY RESTRAINED.



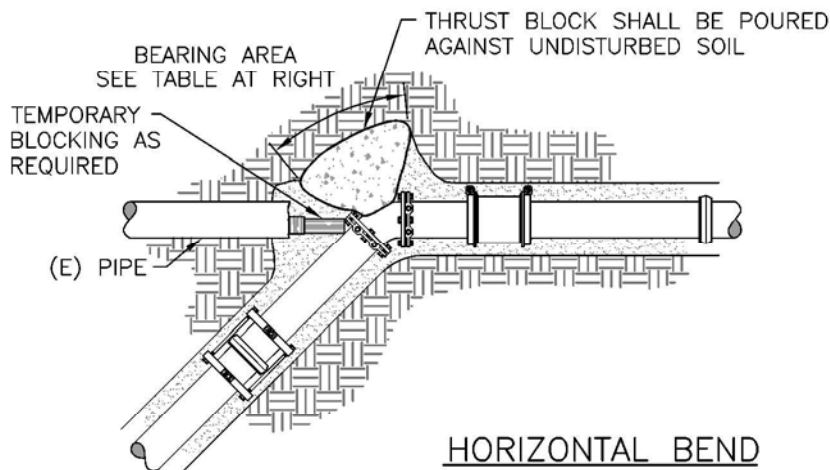
SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

DETAIL 18

JOINT RESTRAINT INSTALLATION

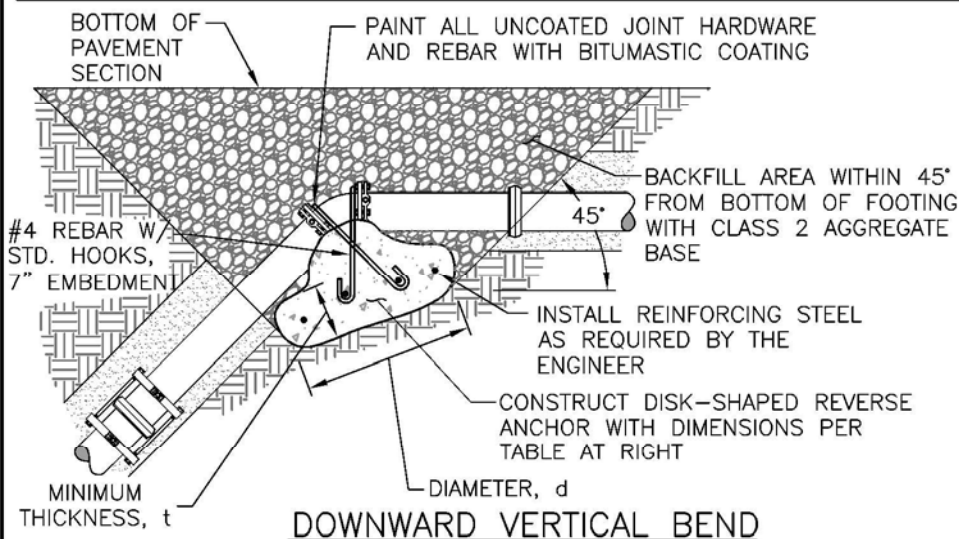
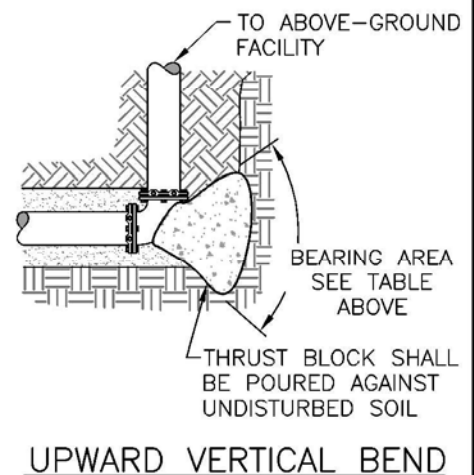
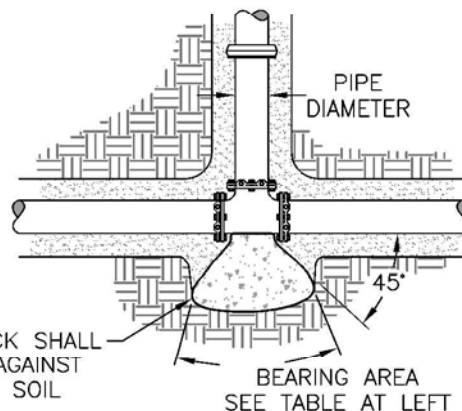
NOT TO SCALE



THRUST BLOCK BEARING AREA
(SQUARE FEET)

		FITTING DEFLECTION			
		11 1/4"	22 1/2"	45°	90°
PIPE DIAMETER	4"	1	1	2	2
	6"	1	1	2	4
	8"	1	2	4	7
	10"	2	3	6	11
	12"	3	5	9	17

PIPE DIAMETER	BEARING AREA (SQUARE FEET)
4"	2
6"	3
8"	5
10"	9
12"	12



MINIMUM REVERSE ANCHOR
DIMENSIONS
(FEET)

d / t		FITTING DEFLECTION	
		22 1/2"	45°
PIPE DIAMETER	6"	2 / 0.5	3 / 0.5
	8"	3 / 0.5	4 / 0.8
	10"	3 / 0.5	5.5 / 2
	12"	4 / 0.5	9 / 2

NOTES

1. CONCRETE THRUST BLOCKS SHALL BE INSTALLED WHEN INDICATED BY THE CONTRACT DOCUMENTS OR AT THE DISCRETION OF THE ENGINEER.
2. THRUST BLOCKING IS REQUIRED WHERE IT IS UNKNOWN IF PIPE IS RESTRAINED, SUCH AS AT A CONNECTION TO EXISTING PIPE.
3. ALL CONCRETE SHALL BE 3000 PSI MINIMUM 28 DAYS COMPRESSIVE STRENGTH.
4. FOR PIPELINES LARGER THAN 10" IN DIAMETER, PIPELINES INSTALLED AT DEPTHS LESS THAN 36 INCHES, OR IN POOR SOILS, THRUST BLOCK DESIGN SHALL BE APPROVED BY THE ENGINEER ON A CASE BY CASE BASIS.

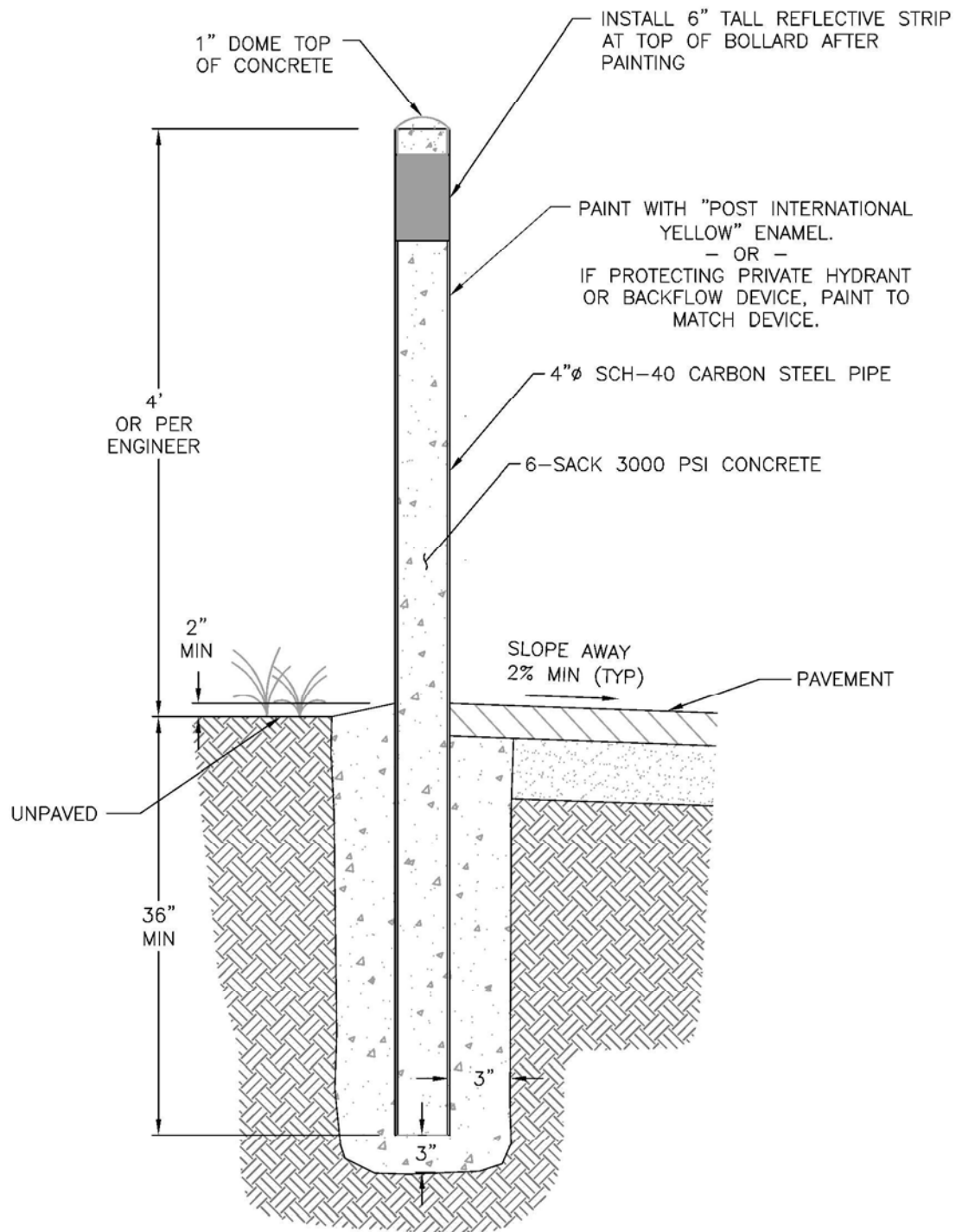


SCOTTS VALLEY WATER DISTRICT
WWW.SVWD.ORG

DETAIL 19

THRUST BLOCK INSTALLATION

NOT TO SCALE



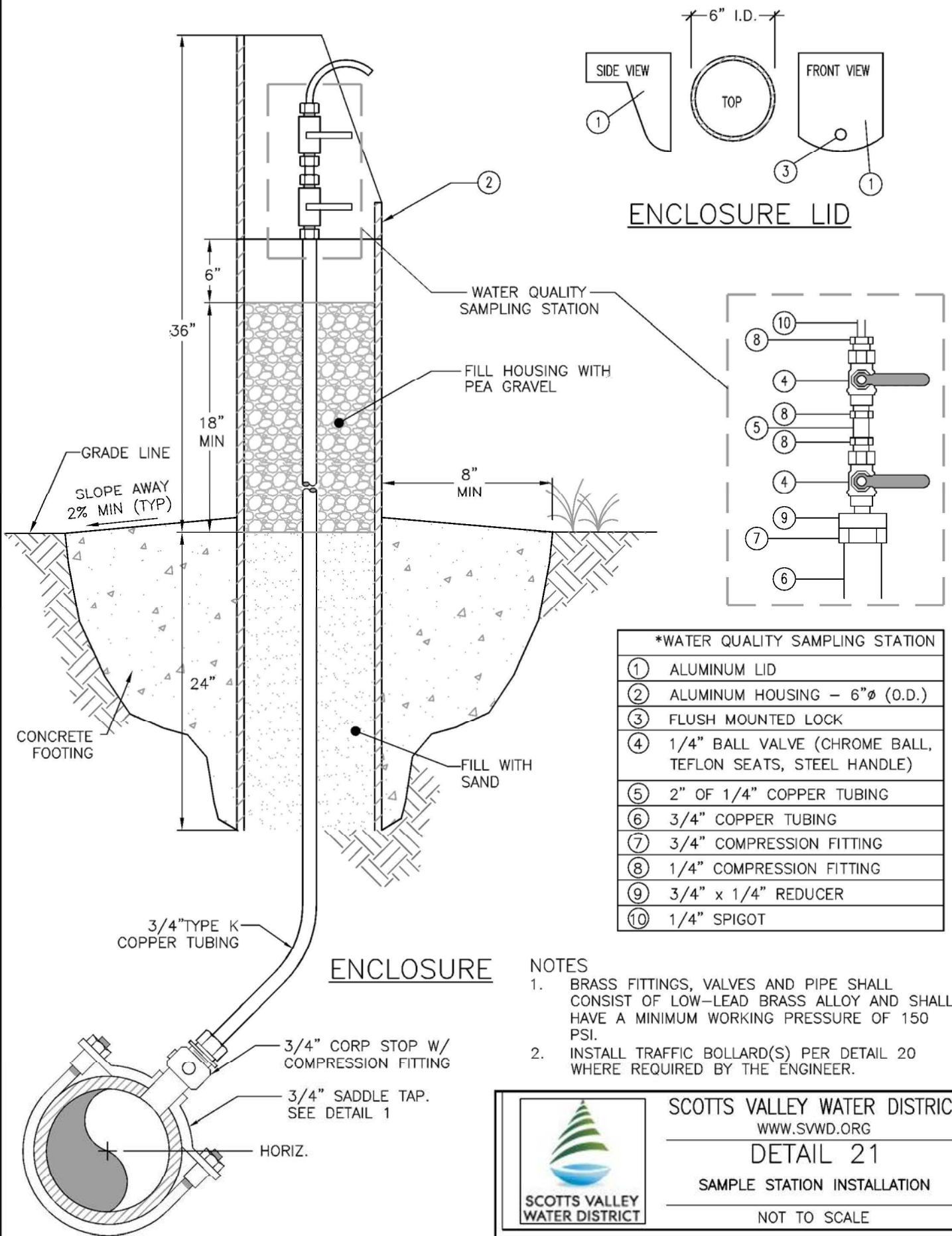
SCOTTS VALLEY WATER DISTRICT

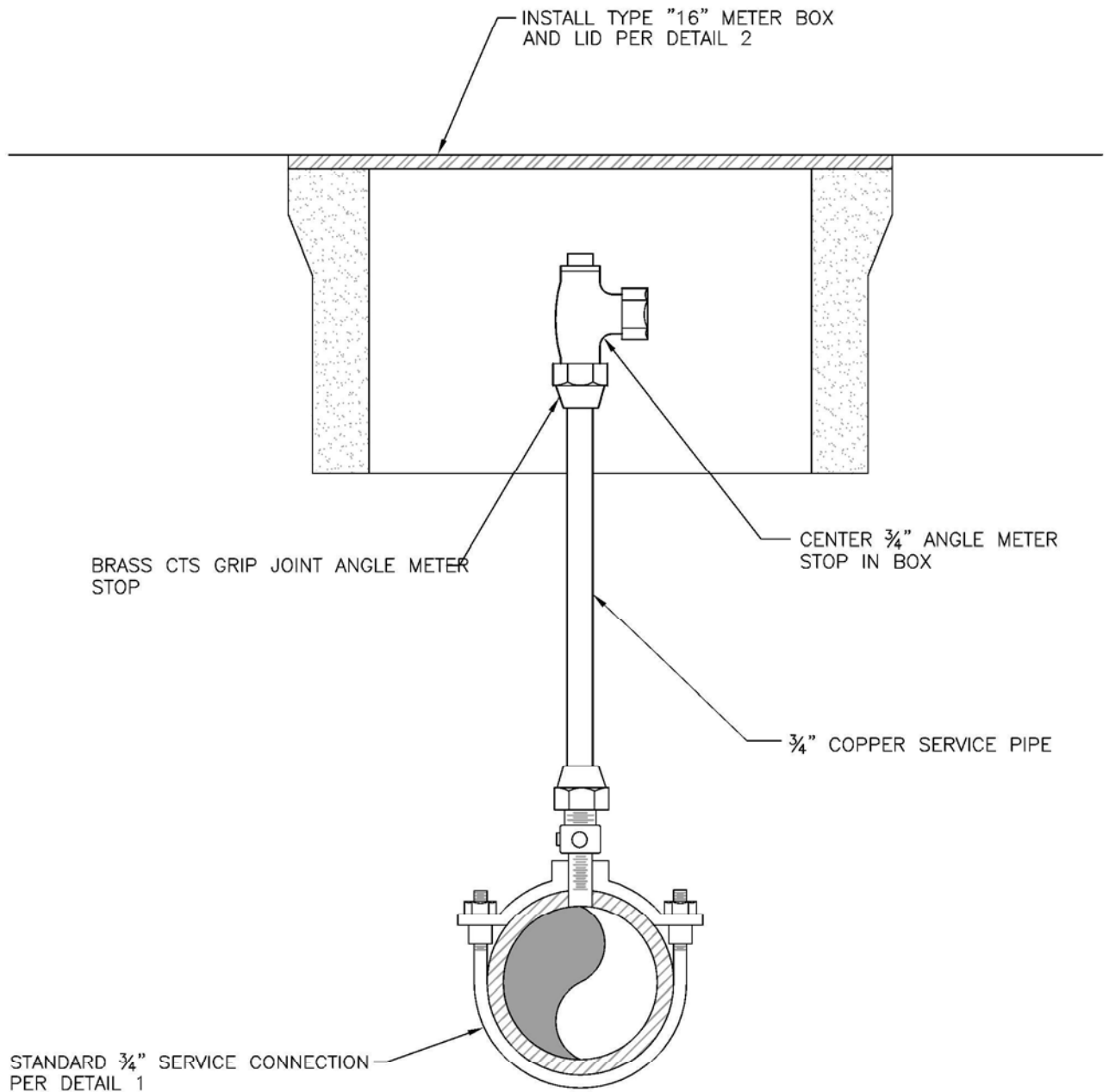
WWW.SVWD.ORG

DETAIL 20

TRAFFIC BOLLARD INSTALLATION

NOT TO SCALE





NOTES

1. BRASS FITTINGS, VALVES AND PIPE SHALL CONSIST OF LOW-LEAD BRASS ALLOY AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.
2. CHLORINATION TAPS SHALL NOT BE LOCATED FURTHER THAN 10 FEET DOWNSTREAM OF THE BEGINNING OF THE NEW MAIN.
3. BOX SHALL BE LOCATED AS INDICATED BY CONTRACT DOCUMENTS OR THE ENGINEER.
4. AFTER DISINFECTION, CLOSE AND CAP CORPORATION STOP AND REMOVE ALL COMPONENTS.



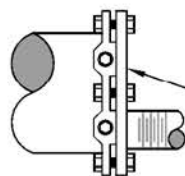
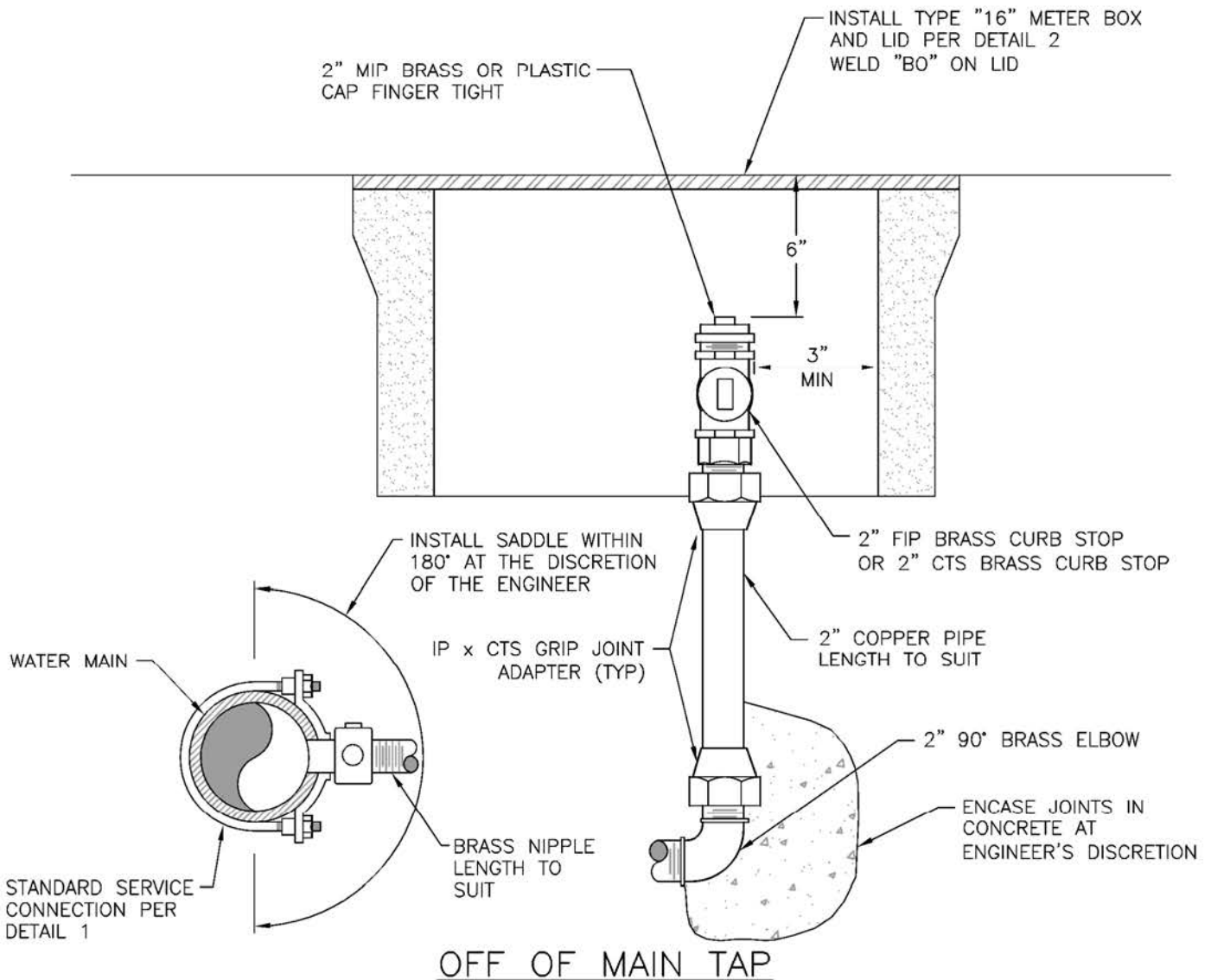
SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

DETAIL 22

CHLORINATION TAP INSTALLATION

NOT TO SCALE



NOTES

1. BLOW-OFF ASSEMBLY MUST BE RESTRAINED, INCLUDING TEMPORARY INSTALLATIONS.
2. MODIFICATIONS MAY BE PERMITTED AT THE DISCRETION OF THE ENGINEER FOR TEMPORARY INSTALLATIONS.
3. BRASS FITTINGS, VALVES AND PIPE SHALL CONSIST OF LOW-LEAD BRASS ALLOY AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.
4. WRAP ALL FITTINGS & PIPE W/ 2" WIDE, 10-MIL PIPE TAPE WHERE IN CONTACT W/ CONC. THRUST BLOCK



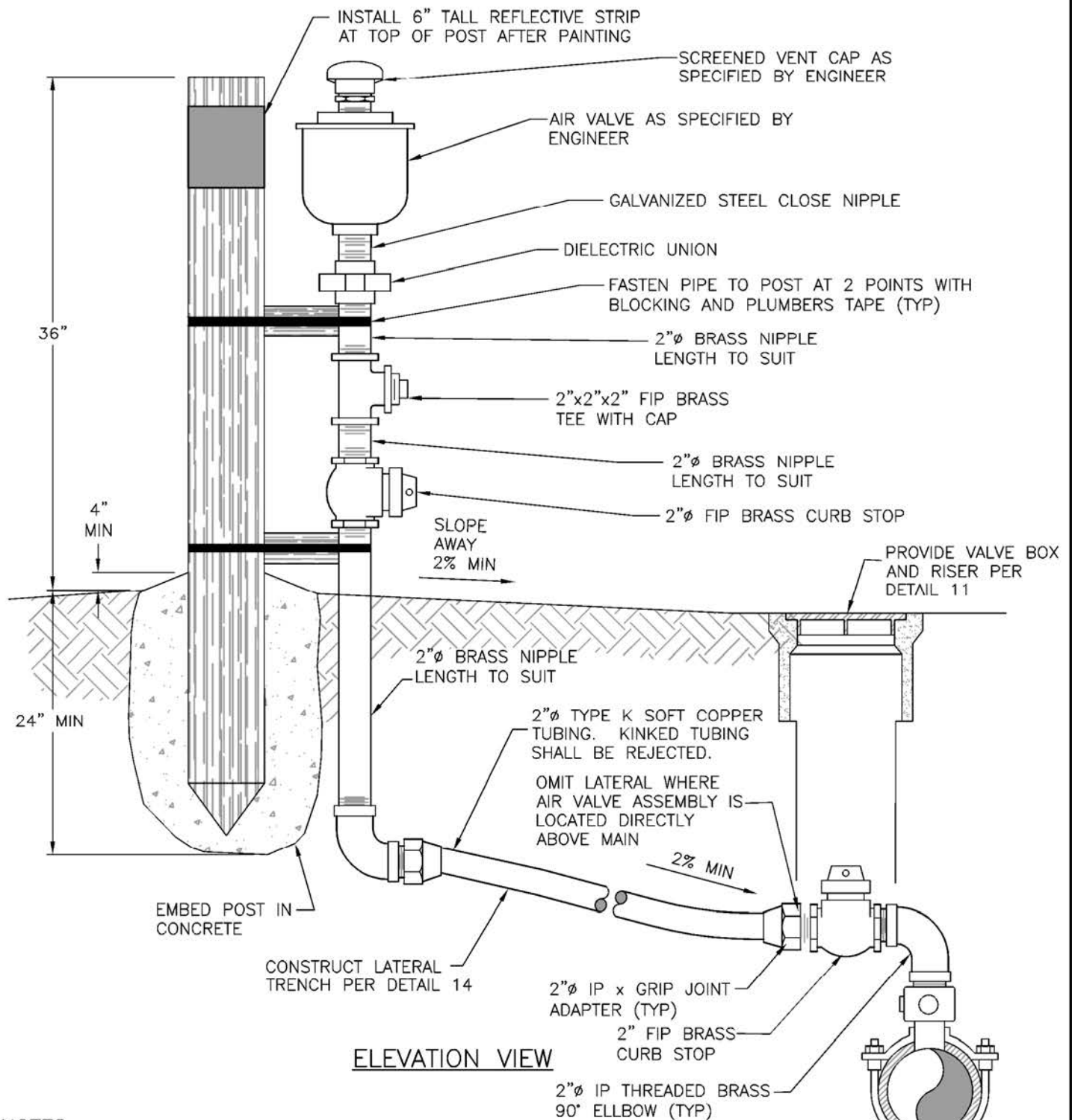
SCOTTS VALLEY WATER DISTRICT

WWW.SVWD.ORG

DETAIL 23

BLOW OFF INSTALLATION

NOT TO SCALE



NOTES

1. EXACT LOCATIONS OF TAP AND OF AIR VALVE SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
2. BRASS FITTINGS, VALVES AND PIPE SHALL CONSIST OF LOW-LEAD BRASS ALLOY AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.
3. AT THE DISCRETION OF THE ENGINEER, A GATE VALVE AND BOX SHALL BE INSTALLED NEAR THE CONNECTION AT THE MAIN PER DETAIL 11.
4. INSTALL LOCKING STEEL ENCLOSURE AND CONCRETE PAD IF REQUIRED BY THE ENGINEER.
5. ABOVE GROUND PIPING, FITTINGS AND ENCLOSURE SHALL BE PAINTED W/ TWO COATS OF RUST PREVENTATIVE ENAMEL.
6. INSTALL TRAFFIC BOLLARD(S) PER DETAIL 20 WHERE REQUIRED BY THE ENGINEER.

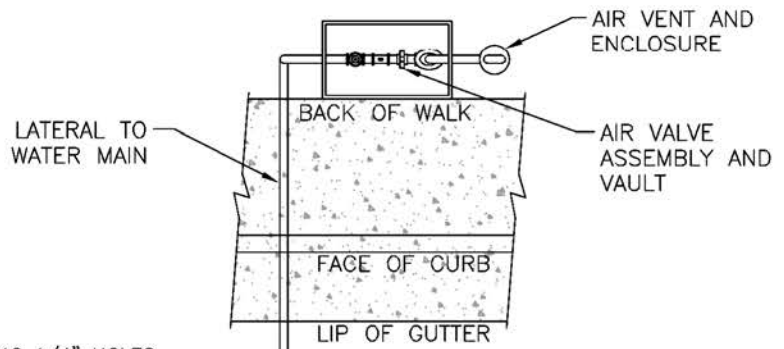


SCOTTS VALLEY WATER DISTRICT
WWW.SVWD.ORG

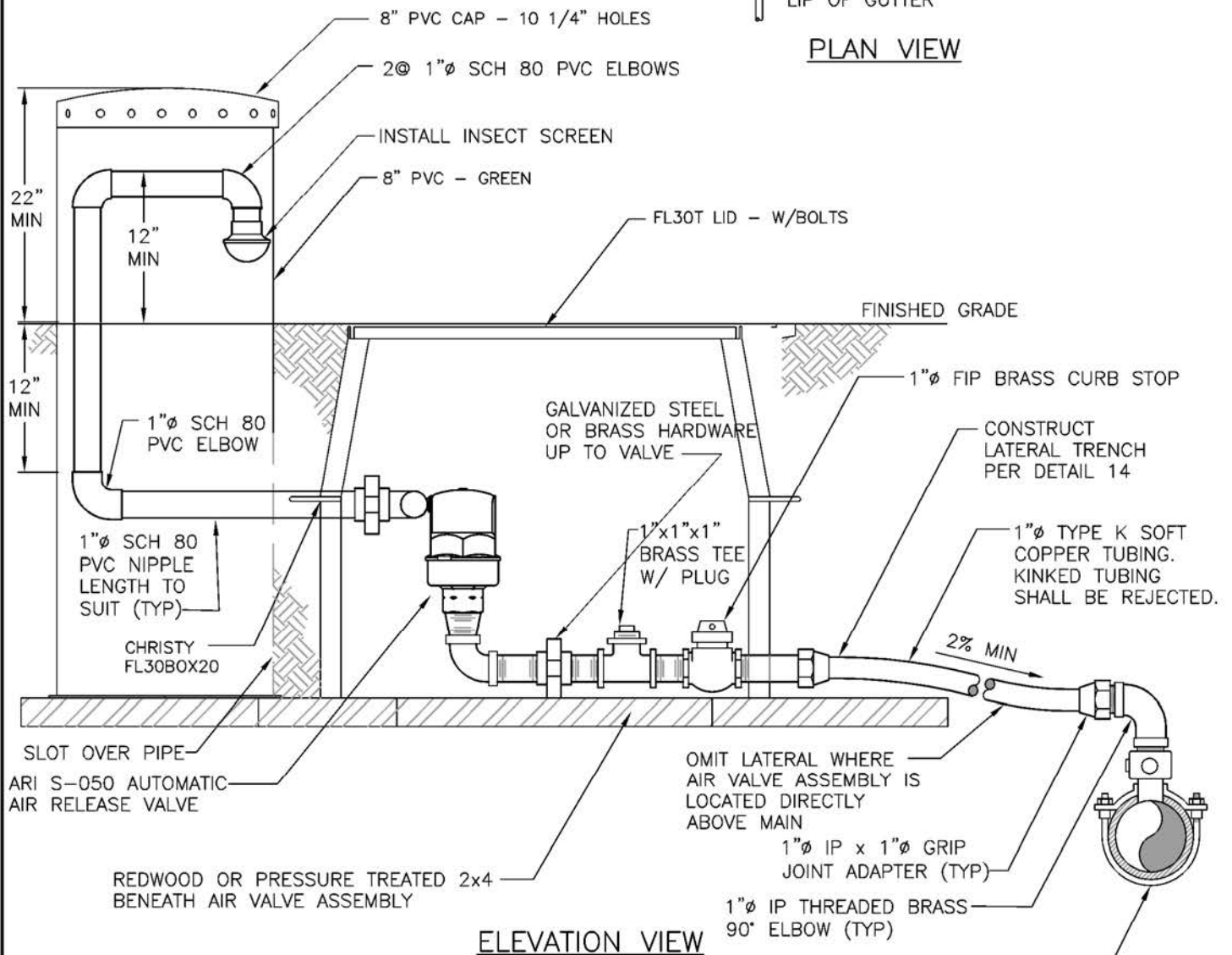
DETAIL 24

ABOVE GRADE AIR VALVE INSTALLATION

NOT TO SCALE



PLAN VIEW



ELEVATION VIEW

NOTES

1. EXACT LOCATIONS OF TAP AND OF AIR VALVE SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
2. BRASS FITTINGS, VALVES AND PIPE SHALL CONSIST OF LOW-LEAD BRASS ALLOY AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.
3. ABOVE GROUND PIPING, FITTINGS AND ENCLOSURE SHALL BE PAINTED W/ TWO COATS OF RUST PREVENTATIVE ENAMEL.
4. AT THE DISCRETION OF THE ENGINEER, A GATE VALVE AND BOX SHALL BE INSTALLED NEAR THE CONNECTION AT THE MAIN PER DETAIL 11.

STANDARD SERVICE CONNECTION PER DETAIL 1.
MAKE TAP AT TOP OF MAIN.



SCOTTS VALLEY WATER DISTRICT
WWW.SVWD.ORG

DETAIL 25

BELOW GRADE AIR VALVE INSTALLATION

NOT TO SCALE