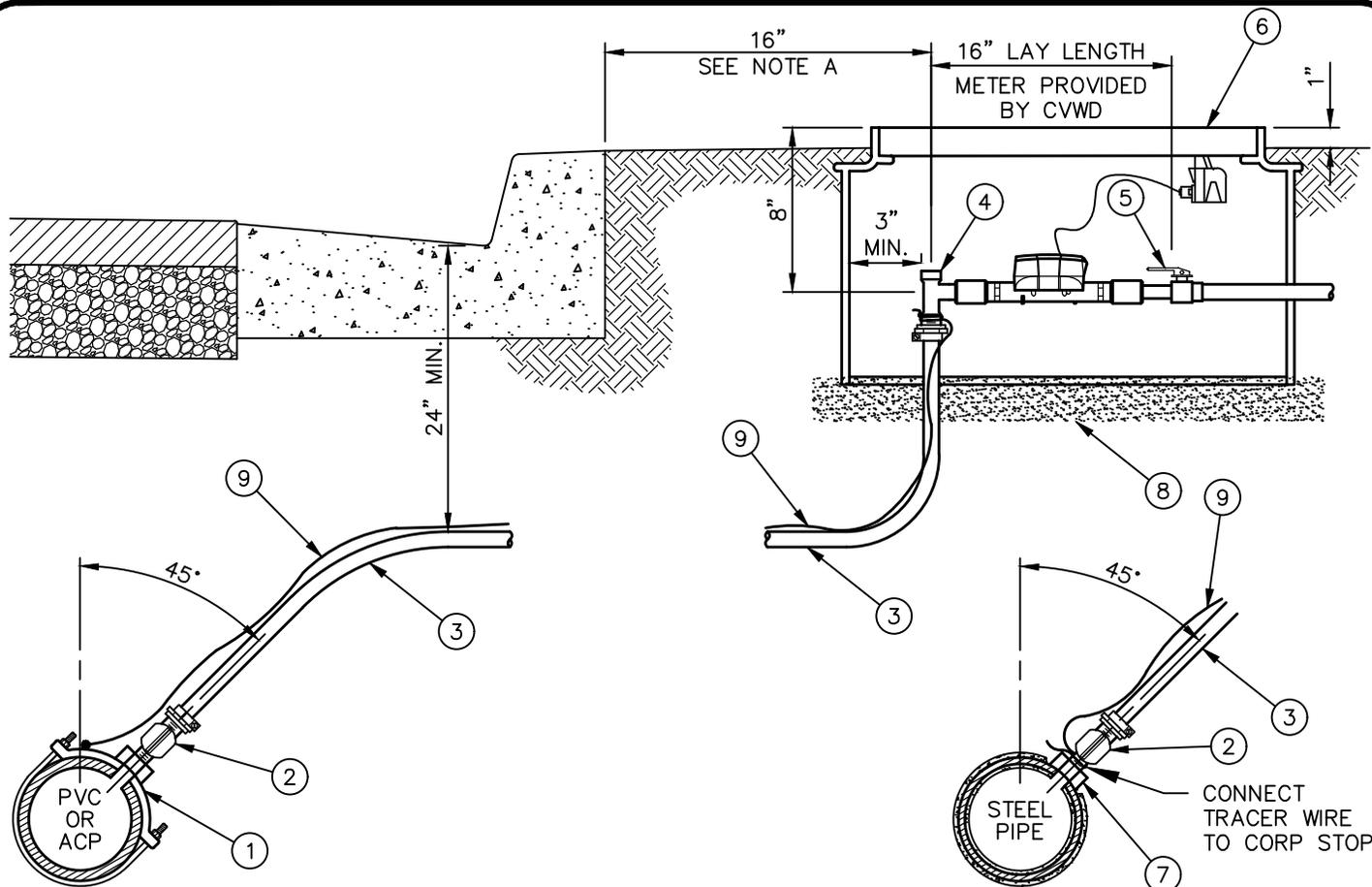


CARPINTERIA VALLEY WATER DISTRICT

STANDARD PLANS TABLE OF CONTENTS

W-100 TABLE OF CONTENTS
 W-101 3/4" METER INSTALLATION
 W-102 1" METER INSTALLATION
 W-103 1 1/2" METER INSTALLATION
 W-104 2" METER INSTALLATION
 W-105 3" AND GREATER METER INSTALLATION
 W-106 HOT-TAP STEEL MAIN
 W-107 HOT-TAP ACP, PVC, AND CAST IRON
 W-108 TEE CUT-IN
 W-109 VALVE ASSEMBLY DETAIL
 W-110 THRUST RESTRAINT DETAIL
 W-111 TRENCH EXCAVATION AND BACKFILL DETAIL
 W-112 PIPE ZONE DETAIL
 W-113 FIRE HYDRANT ASSEMBLY
 W-114 DOUBLE CHECK DETECTOR ASSEMBLY
 W-115 REDUCED PRESSURE PRINCIPLE ASSEMBLY
 W-116 AIR VAC RELEASE ASSEMBLY
 W-117 BLOW-OFF ASSEMBLY
 W-118 GUARD POST DETAIL
 W-119 ABANDONMENT DETAIL
 W-120 METER MANIFOLD
 W-121 VERTICAL OFFSET FOR PVC PIPE
 W-122 REDUCED PRESSURE DETECTOR ASSEMBLY

REV.	DATE	BY	CARPINTERIA VALLEY WATER DISTRICT		CVWD TABLE OF CONTENTS	STANDARD DETAIL NO.
			DRAWN BY: TJB			W-100
			SCALE: NONE	DATE: 07/27/18		
			APPROVED BY: _____			
			DISTRICT ENGINEER		SHT 1 OF 1	

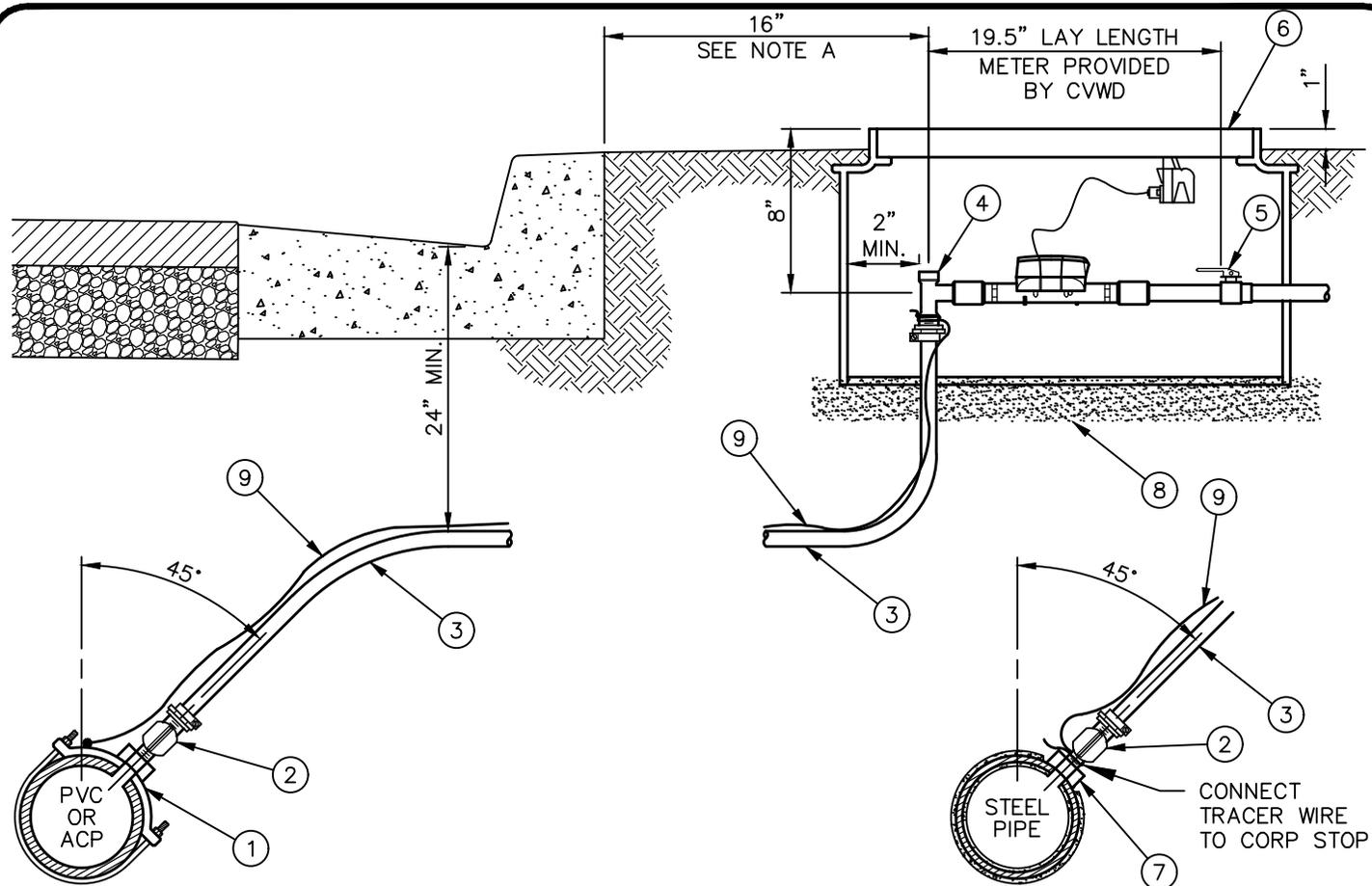


ITEM	DESCRIPTION
1	PVC-FORD 202BS, BRASS DOUBLE BAND 1" IPT, ACP/DIP - FORD 202B, BRASS DOUBLE BAND 1" IPT
2	FORD FB 1100-4-NL STYLE CORPORATION STOP 1" MIPT x PACK JOINT
3	1" REHAU MUNICIPEX PEX _a CTS 3306 SDR 9 POTABLE TUBING AWWA WITH INSERTS
4	FORD KV43-342W-NL ANGLE METER STOP COMPRESSION 1" x 3/4"
5	FORD B13-342W-NL BALL VALVE WITH LEVER HANDLE 3/4" METER NUT x 1" FIPT OR FORD B43-342W-NL BALL VALVE WITH LEVER HANDLE 3/4" METER NUT x 1" CTS OR FORD B73-342W-NL BALL VALVE WITH LEVER HANDLE 3/4" METER NUT x 1" PVC
6	CHRISTY FIBRELYTE 1" FL12 WATER METER BOX WITH FL12D FIBRELYTE LID, W/BADGER ORION PROBE. INSTALL ENDPOINT CLEAR OF VALVES
7	1" x 3000 LBS 1/2 COUPLING IPT
8	4 INCHES OF FILL SAND BASE
9	#10 AWG COATED COPPER TRACER WIRE ATTACHED TO EXISTING WIRE ON MAIN. DAYLIGHT @ AMS.

GENERAL NOTES

- A. IF SIDEWALK IS CONTIGUOUS TO CURB, SERVICE LINE IS TO BE EXTENDED 16" BEYOND BACK OF SIDEWALK
- B. NO TAP TO MAIN SHALL BE WITHIN 12" OF A COUPLING OR WITHIN 18" OF ANOTHER TAP
- C. NO TAP TO MAIN SHALL BE WITHIN 24" OF BEND UNLESS APPROVED BY THE DISTRICT
- D. NO METER BOX(S) SHALL BE WITHIN 18" OF EACH OTHER UNLESS APPROVED BY THE DISTRICT
- E. NO METER BOX SHALL BE WITHIN 48" OF DRIVEWAY CURB RETURN UNLESS APPROVED BY THE DISTRICT
- F. NO METER BOX SHALL BE WITHIN DRIVEWAY
- G. ALL SEAMS INSIDE OF METER BOX TO BE MORTARED UPON COMPLETION OF INSTALLATION
- H. IF THERE IS NOT EXISTING TRACER WIRE ON MAIN, THE SERVICE LINE TRACER WIRE SHALL BE WRAPPED AROUND THE CONNECTION OF THE CORPORATION STOP TO THE MAIN

CARPINTERIA VALLEY WATER DISTRICT			3/4" METER	STANDARD DETAIL NO.	
REV.	DATE	BY		W-101	
X	2/2021	BK			DRAWN BY: TJB
X	8/2021	SS			SCALE: NONE DATE: 07/27/18
APPROVED BY: _____			DISTRICT ENGINEER	SHT 1 OF 1	



ITEM

DESCRIPTION

- 1 PVC-FORD 202BS, BRASS DOUBLE BAND 1" IPT, ACP/DIP – FORD 202B, BRASS DOUBLE BAND 1" IPT
- 2 FORD FB 1100-4-NL STYLE CORPORATION STOP 1" MIPT x PACK JOINT
- 3 1" REHAU MUNICIPEX PEX_a CTS 3306 SDR 9 POTABLE TUBING AWWA WITH INSERTS
- 4 FORD KV43-444W-NL ANGLE METER STOP COMPRESSION 1" x 1"
- 5 FORD B13-444W-NL BALL VALVE WITH LEVER HANDLE 1" METER NUT x 1" FIPT OR FORD B43-444W-NL BALL VALVE WITH LEVER HANDLE 1" METER NUT x 1" CTS OR FORD B73-444W-NL BALL VALVE WITH LEVER HANDLE 1" METER NUT x 1" PVC
- 6 CHRISTY FIBRELYTE 1" FL12 WATER METER BOX WITH FL12D FIBRELYTE LID, W/BADGER ORION PROBE. INSTALL ENDPOINT CLEAR OF VALVES.
- 7 1" x 3000 LBS 1/2 COUPLING IPT
- 8 4 INCHES OF FILL SAND BASE
- 9 #10 AWG COATED COPPER TRACER WIRE ATTACHED TO EXISTING WIRE ON MAIN. DAYLIGHT @ AMS

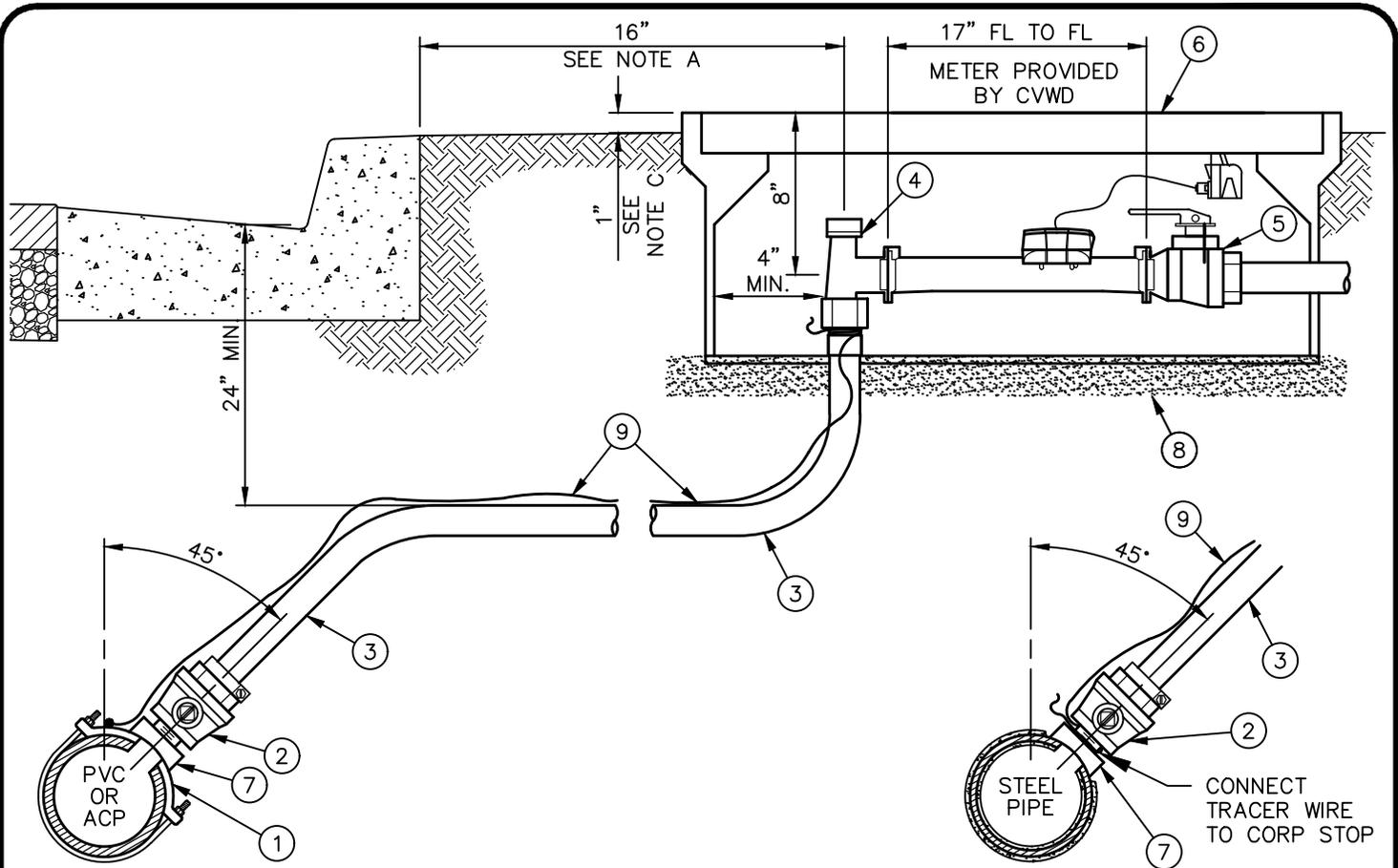
GENERAL NOTES

- A. IF SIDEWALK IS CONTIGUOUS TO CURB, SERVICE LINE IS TO BE EXTENDED 16" BEYOND BACK OF SIDEWALK
- B. NO TAP TO MAIN SHALL BE WITHIN 12" OF A COUPLING OR WITHIN 18" OF ANOTHER TAP
- C. NO TAP TO MAIN SHALL BE WITHIN 24" OF BEND UNLESS APPROVED BY THE DISTRICT
- D. NO METER BOX(S) SHALL BE WITHIN 18" OF EACH OTHER UNLESS APPROVED BY THE DISTRICT
- E. NO METER BOX SHALL BE WITHIN 48" OF DRIVEWAY CURB RETURN UNLESS APPROVED BY THE DISTRICT
- F. NO METER BOX SHALL BE WITHIN DRIVEWAY
- G. ALL SEAMS INSIDE OF METER BOX TO BE MORTARED UPON COMPLETION OF INSTALLATION
- H. IF THERE IS NOT EXISTING TRACER WIRE ON MAIN, THE SERVICE LINE TRACER WIRE SHALL BE WRAPPED AROUND TO CONNECTION OF THE CORPORATION STOP TO THE MAIN

CARPINTERIA VALLEY WATER DISTRICT			
REV.	DATE	BY	DRAWN BY: TJB
X	8/2021	SS	SCALE: NONE DATE: 07/27/18
			APPROVED BY: _____ DISTRICT ENGINEER

1" METER

STANDARD
DETAIL NO.
W-102
SHT 1 OF 1



ITEM

DESCRIPTION

- 1 PVC WATER MAINS: FORD 202 BS, BRASS DOUBLE BAND 2 INCH SADDLE OR POWER SEAL 3411/3412 I.P.T.
ASBESTOS CEMENT PIPE WATER MAINS: FORD 202B, BRASS DOUBLE BAND 2 INCH IPT
- 2 FORD FB1100 2 INCH CORP STOP MIPT X COMP. (CTS) OUTLET
- 3 2" REHAU MUNICIPEX PEX_a CTS 3306 SDR 9 POTABLE TUBING AWWA WITH INSERTS
- 4 FORD FLG 2" ANGLE METER STOP FV 43-777W PACT JOINT
- 5 FORD 2" BALL VALVE W/LEVER HANDLE MODEL BF13777W
- 6 CHRISTY FL36 METER BOX WITH FL36D LID (SEE NOTE B) W/ MOUNTED ENDPOINT CLEAR OF VALVES
- 7 2" X 3000 LB 1/2 COUPLING
- 8 4 INCHES OF FILL SAND BASE
- 9 #10 AWG COATED COPPER TRACER WIRE ATTACHED TO EXISTING WIRE ON MAIN. DAYLIGHT @ AMS.

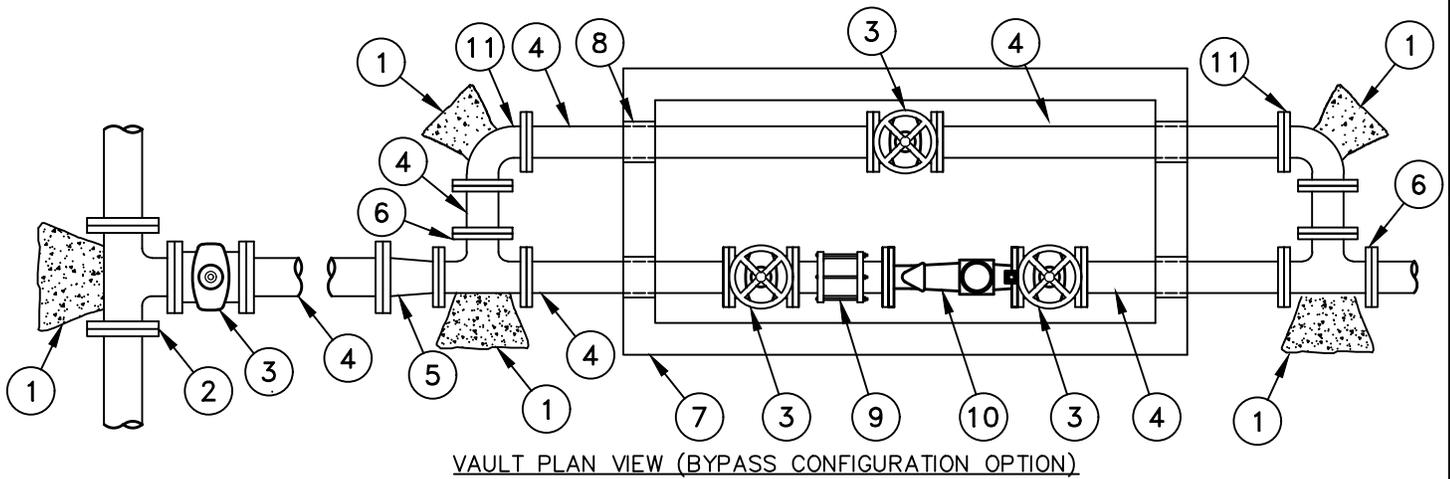
GENERAL NOTES

- A. IF SIDEWALK IS CONTIGUOUS TO CURB, SERVICE LINE IS TO BE EXTENDED 16" BEYOND BACK OF SIDEWALK
- B. ALL SEAMS INSIDE OF METER BOX TO BE MORTARED UPON COMPLETION OF INSTALLATION
- C. SET TOP OF METER BOX 1" ABOVE GROUND SURFACE IN LANDSCAPED AREAS
- D. NO TAP TO MAIN SHALL BE WITHIN 12" OF A COUPLING OR WITHIN 18" OF ANOTHER TAP
- E. NO TAP TO MAIN SHALL BE WITHIN 24" OF BEND UNLESS APPROVED BY THE DISTRICT
- F. NO METER BOX(S) SHALL BE WITHIN 18" OF EACH OTHER UNLESS APPROVED BY THE DISTRICT
- G. NO METER BOX SHALL BE WITHIN 48" OF DRIVEWAY CURB RETURN UNLESS APPROVED BY THE DISTRICT
- H. NO METER BOX SHALL BE WITHIN DRIVEWAY
- I. ALL BOLTS SHALL BE 304 STAINLESS STEEL
- H. IF THERE IS NOT EXISTING TRACER WIRE ON MAIN, THE SERVICE LINE TRACER WIRE SHALL BE WRAPPED AROUND THE CONNECTION OF THE CORPORATION STOP TO THE MAIN

CARPINTERIA VALLEY WATER DISTRICT			
REV.	DATE	BY	DRAWN BY: TJB
X	8/2021	SS	SCALE: NONE DATE: 07/27/18
			APPROVED BY: _____ DISTRICT ENGINEER

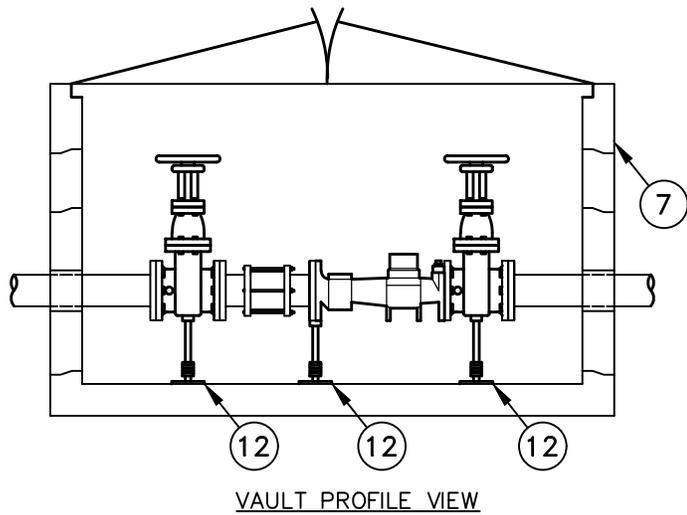
2" METER

STANDARD
DETAIL NO.
W-104
SHT 1 OF 1



ITEM DESCRIPTION

- 1 THRUST RESTRAINT PER CVWD W-110
- 2 MINIMUM 4 INCH HOT-TAP PER CVWD W-106 OR W-107
- 3 RWGV MINIMUM 4 INCH DIA. (W/ HANDWHEEL IF WITHIN VAULT)
- 4 DUCTILE IRON SPOOL PIECE (FL X FL)
- 5 DUCTILE IRON REDUCER (FL X FL) AS REQUIRED
- 6 DUCTILE IRON TEE (FL X FL X FL)
- 7 VAULT – SEE SHEET 2 OF 2
- 8 INSULATION BETWEEN PIPEWORK AND CONCRETE
- 9 BOLTED COUPLING
- 10 3 INCH AND GREATER – OMNI COMPOUND METER. ALL METERS TO BE PROVIDED BY CVWD
- 11 DUCTILE IRON 90 DEGREE BEND (FL X FL)
- 12 ADJUSTABLE PIPE STAND WITH FITTED SADDLE

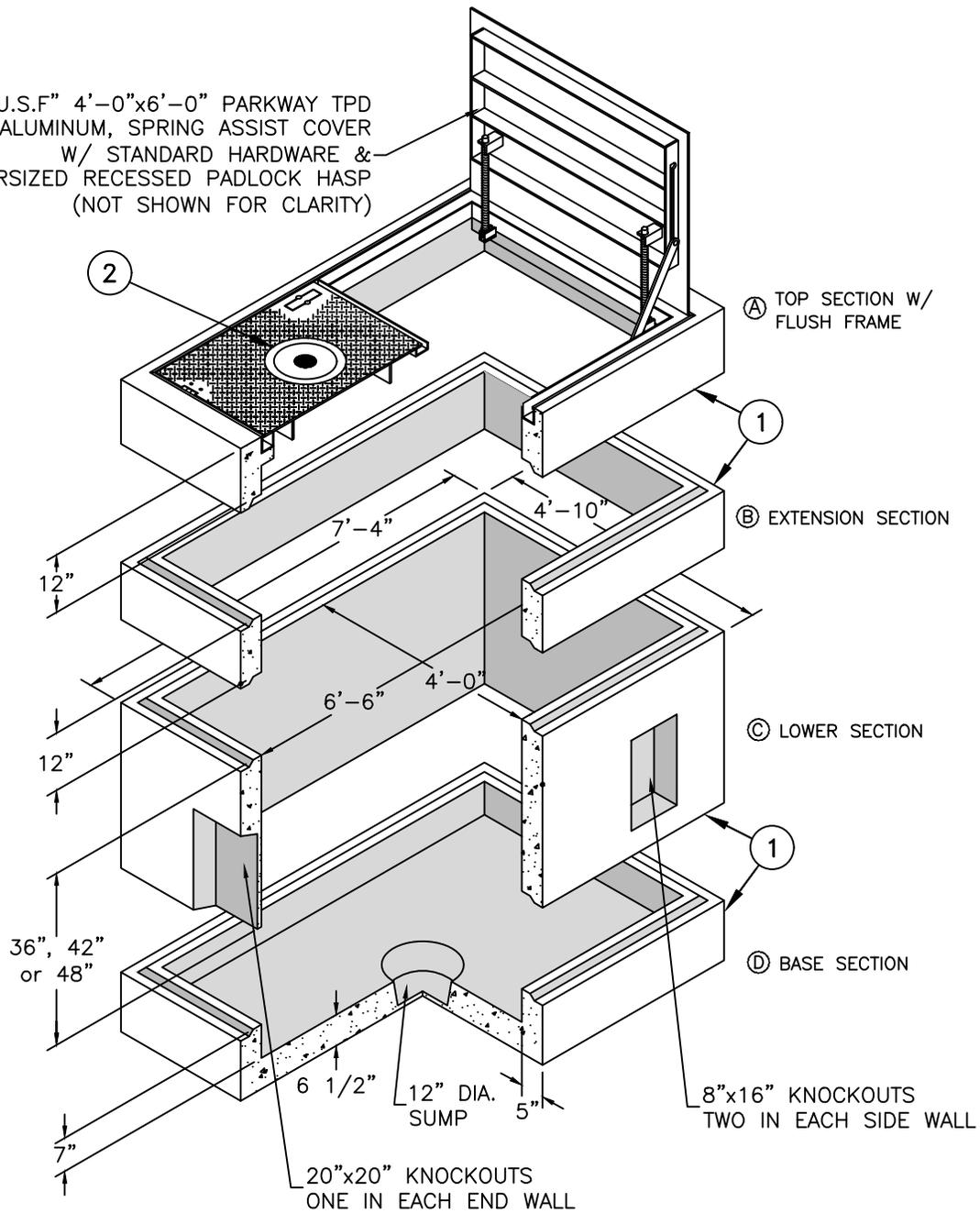


GENERAL NOTES

- A. ADDITIONAL FITTINGS MAY BE REQUIRED TO OBTAIN APPROPRIATE COVERAGE OR DEPTH.
- B. VALVES IN METER ASSEMBLY TO BE LOCKED (BY CHAIN) IN TO OPEN POSITION R.W. VALVE IN BYPASS TO BE LOCKED (BY CHAIN) IN THE CLOSED POSITION.
- C. ASSEMBLY MUST BE EASILY ACCESSIBLE TO FACILITATE TESTING AND SERVICING.
- D. VAULT SELECTION SHALL BE APPROVED BY CVWD AND SHALL TAKE INTO CONSIDERATION TRAFFIC LOADING, CLEARANCE, AND GRADE.
- E. BYPASS CONFIGURATION OPTION TO BE APPROVED BY DISTRICT ENGINEER.
- F. VAULTS FOR METER SIZES EXCEEDING 4" TO BE APPROVED BY DISTRICT ENGINEER.

CARPINTERIA VALLEY WATER DISTRICT			3" AND 4" METER INSTALLATION	STANDARD DETAIL NO.	
REV.	DATE	BY		W-105	
X	8/2021	SS			SHT 1 OF 2
X	7/2022	SS			
			DRAWN BY: TJB		
			SCALE: NONE DATE: 07/27/18		
			APPROVED BY: _____		
			DISTRICT ENGINEER		

"U.S.F" 4'-0"x6'-0" PARKWAY TPD ALUMINUM, SPRING ASSIST COVER W/ STANDARD HARDWARE & OVERSIZED RECESSED PADLOCK HASP (NOT SHOWN FOR CLARITY)



**Minimum Excavation: 5'-10"x8'-4"xDepth Req'd

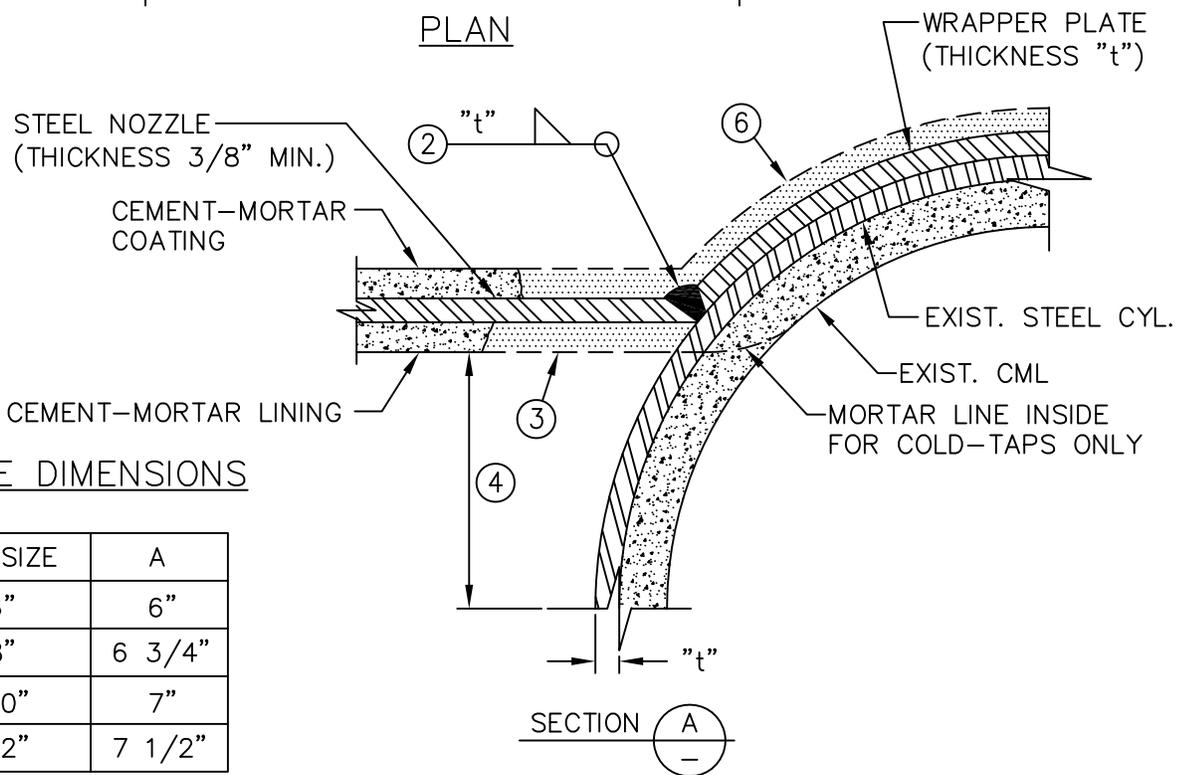
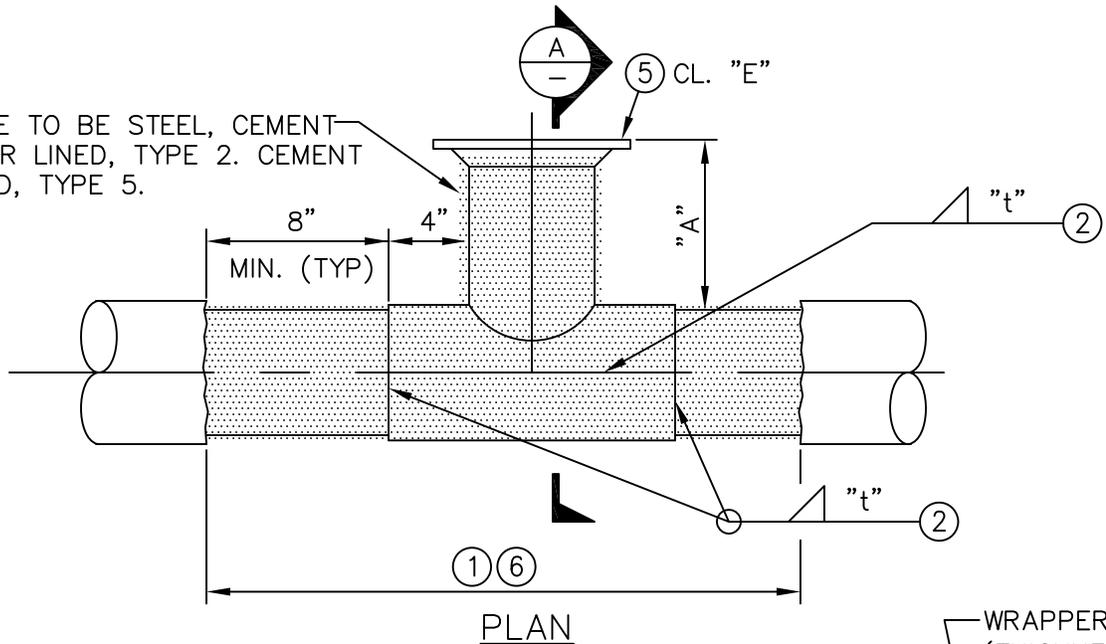
ITEM	DESCRIPTION
1	J&R CONCRETE PRODUCTS - 48"x78" CLOSED BOTTOM TFC/PKWY UTILITY VAULT
2	NICOR - AMI RETRO-FIT VAULT KIT. PART NO. 8.0VKPWBLKthOLTE

GENERAL NOTES

A. KNOCKOUT OPENINGS TO BE MORTARED AFTER METER INSTALLATION

			CARPINTERIA VALLEY WATER DISTRICT		3" AND 4" METER INSTALLATION	STANDARD DETAIL NO.	
REV.	DATE	BY	DRAWN BY: SS			W-105	
X	7/2022	SS	SCALE: NONE	DATE: 07/12/2022			
			APPROVED BY:				
			DISTRICT ENGINEER			SHT 2 OF 2	

NOZZLE TO BE STEEL, CEMENT-MORTAR LINED, TYPE 2. CEMENT COATED, TYPE 5.



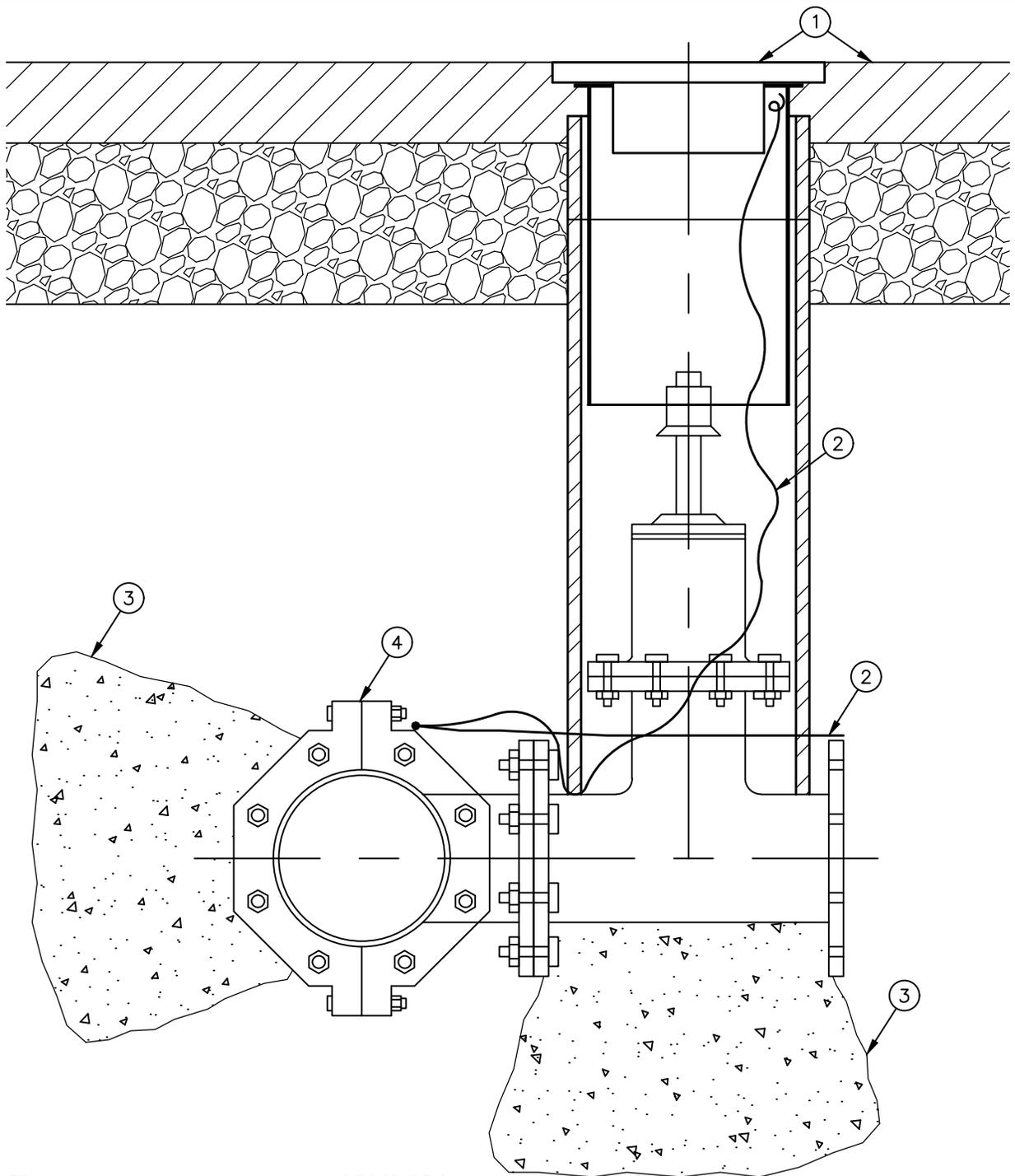
NOZZLE DIMENSIONS

TAP SIZE	A
6"	6"
8"	6 3/4"
10"	7"
12"	7 1/2"

- | <u>ITEM</u> | <u>DESCRIPTION</u> |
|-------------|--|
| 1 | REMOVE CEMENT MORTAR COATING ON EXISTING STEEL MAIN |
| 2 | WELD WRAPPER PLATE AND NOZZLE TO EXISTING STEEL CYLINDER |
| 3 | FILL VOID INSIDE NOZZLE WITH CEMENT-MORTAR |
| 4 | HOT TAP PIPE AND REMOVE COUPON |
| 5 | 2-HOLE FLANGE TO LEVEL VALVE |
| 6 | CEMENT-MORTAR COAT ON EXTERIOR OF PIPE |

- GENERAL NOTES
- A. HOT TAP EXISTING MAINS UNLESS OTHERWISE SPECIFIED BY CVWD.
 - B. ALL CEMENT MORTAR LINING AND COATING SHALL BE NSF-61 APPROVED.

REV.	DATE	BY	CARPINTERIA VALLEY WATER DISTRICT		HOT-TAP STEEL MAIN	STANDARD DETAIL NO.
			DRAWN BY: TJB			W-106
			SCALE: NONE	DATE: 07/27/18		
			APPROVED BY: _____			
			DISTRICT ENGINEER			SHT 1 OF 1

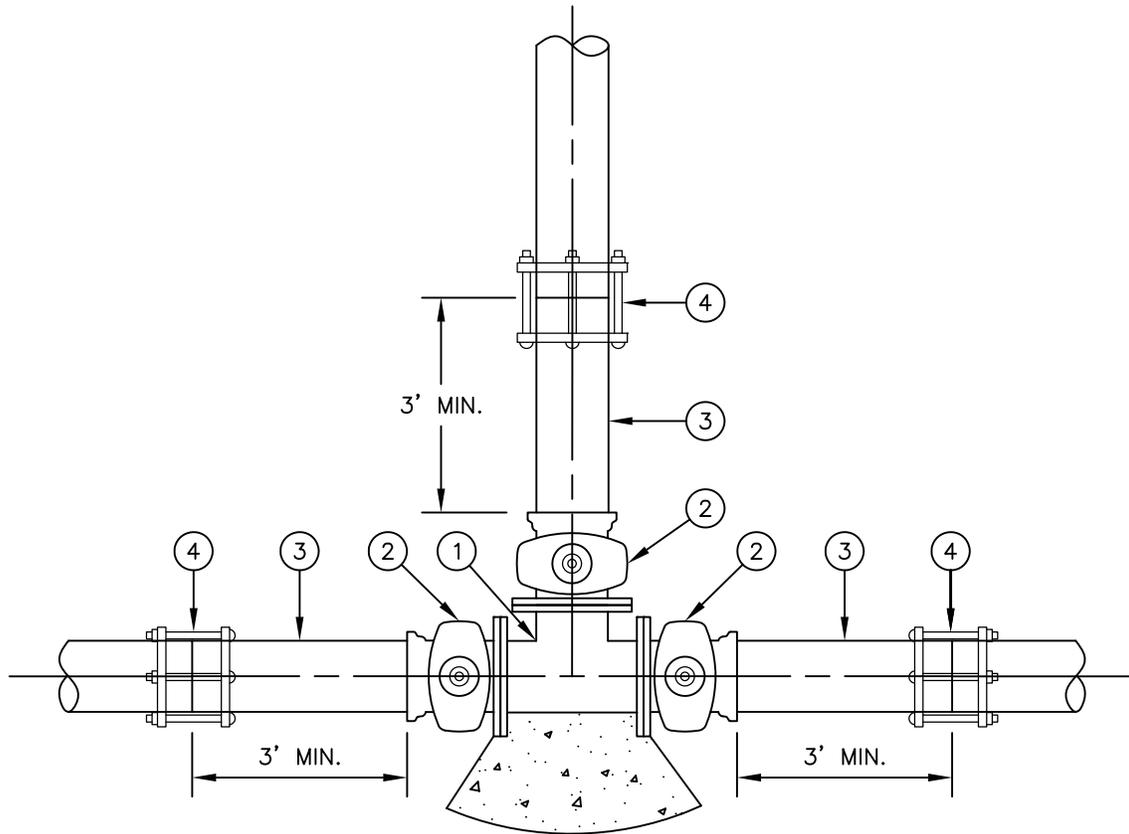


ITEM	DESCRIPTION
1	STANDARD VALVE CAN RISER AND COVER PER W-109. FINISHED STREET GRADE.
2	#10 AWG COATED COPPER TRACER WIRE ATTACHED TO EXISTING WIRE ON MAIN.
3	THRUST RESTRAINT PER W-110
4	316 STAINLESS STEEL FLANGED TAPPING SLEEVE WITH 304 STAINLESS STEEL NUTS AND BOLTS

GENERAL NOTES

- A. HOT TAP EXISTING MAINS UNLESS OTHERWISE OBSERVED AND SPECIFIED BY CVWD.
- B. HOT TAP PIPE AND REMOVE COUPON.

CARPINTERIA VALLEY WATER DISTRICT			HOT-TAP PVC, ACP, OR DUCTILE IRON	STANDARD DETAIL NO.
REV.	DATE	BY		W-107
X	8/2021	SS		
DRAWN BY: TJB		DATE: 07/27/18		
APPROVED BY: _____			DISTRICT ENGINEER	SHT 1 OF 1



ITEM

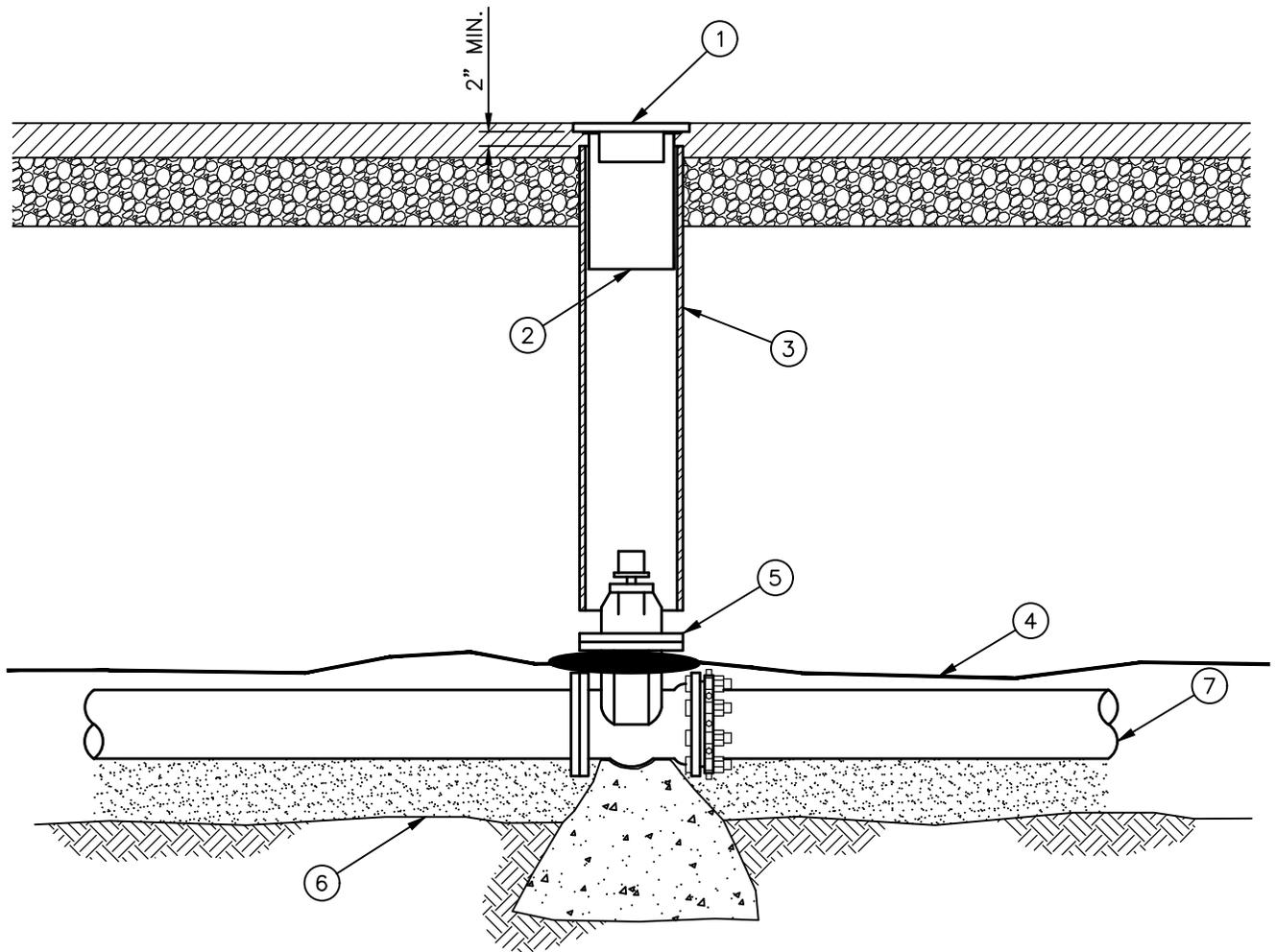
DESCRIPTION

- 1 FL X FL X FL D.I.P. TEE
- 2 FL X MJ RWGV
- 3 BEVELED END JOINING VALVE x PE DR-14 PVC (C900) PIPE
- 4 MACRO TWO-BOLT SLEEVE-TYPE COUPLING FOR IDENTICAL OR DIFFERENT PIPE MATERIALS ON EACH SIDE

GENERAL NOTES

- A. NUTS AND BOLTS SHALL BE 316 STAINLESS STEEL.
- B. DOUBLE WRAP TEES, VALVES AND ALL FITTINGS IN 8-MIL POLYETHYLENE.
- C. WARNING TAPE SHALL BE INSTALLED.
- D. SEE CVWD W-109 FOR VALVE BOX ASSEMBLY AND VALVE EXTENSION.
- E. SEE CVWD W-110 FOR FURTHER THRUST BLOCK DETAILS.
- F. SEE CVWD W-111 FOR TRENCH DETAILS.

			CARPINTERIA VALLEY WATER DISTRICT		TEE CUT-IN	STANDARD DETAIL NO.
REV.	DATE	BY	DRAWN BY: TJB			W-108
			SCALE: NONE	DATE: 07/27/18		
			APPROVED BY: _____			
			DISTRICT ENGINEER			SHT 1 OF 1

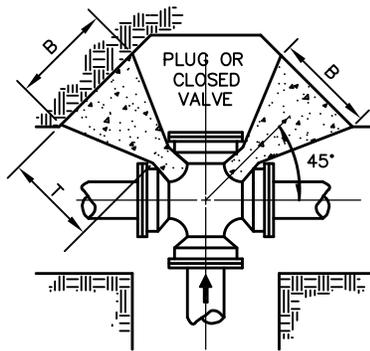


ITEM	DESCRIPTION
1	SOUTH BAY FOUNDRY (SBF) 6" GATE CAP MARKED "WATER" FOR ASPHALT OR NATIVE SOIL APPLICATIONS
2	6 INCH X 12 INCH GALVANIZED SLIP CAN
3	6 INCH PVC SCH. 40 OR GREATER CENTERED AND PLUMB OVER OPERATOR NUT
4	TRACER WIRE #10 AWG
5	RWGV FLANGED OR MJ FITTING
6	PIPE BEDDING
7	WATER MAIN

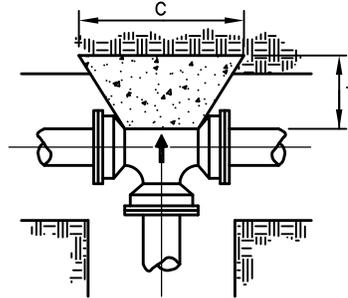
GENERAL NOTES

- A. NUTS AND BOLTS SHALL BE 316 STAINLESS STEEL
- B. DOUBLE WRAP TEES, VALVES AND ALL FITTINGS IN 8-MIL POLYETHYLENE
- C. FOR SIDEWALK APPLICATIONS, USE CHRISTY G03 VALVE BOX COVER

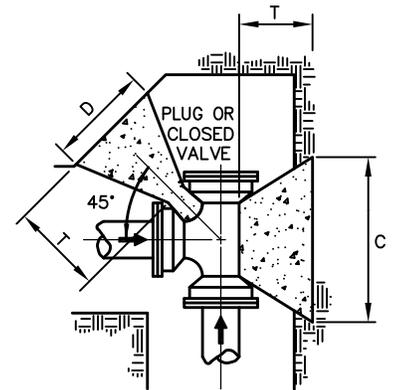
CARPINTERIA VALLEY WATER DISTRICT			VALVE ASSEMBLY DETAIL		STANDARD DETAIL NO. W-109	
REV.	DATE	BY			DRAWN BY: BK SCALE: NONE DATE: 07/27/18 APPROVED BY: _____ <small>DISTRICT ENGINEER</small>	



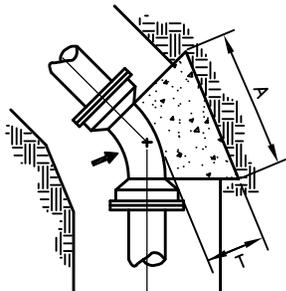
CROSS
(ONE END PLUGGED)
TABLE 1



TEE
TABLE 1

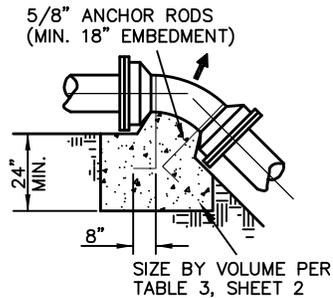


TEE
(ONE END PLUGGED)
TABLE 1

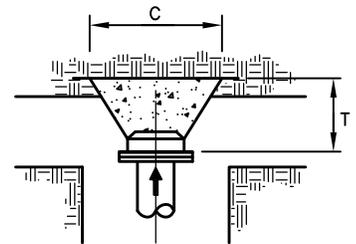


* SEE SHEET 2
HORIZONTAL BEND TABLES 1 & 2

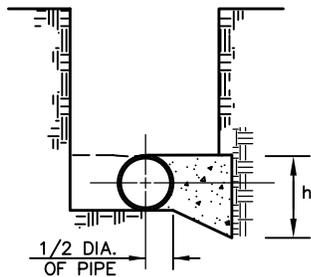
HORIZONTAL BEND



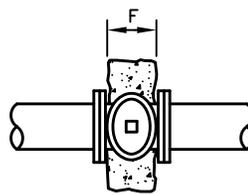
VERTICAL BEND
ANCHOR BLOCK



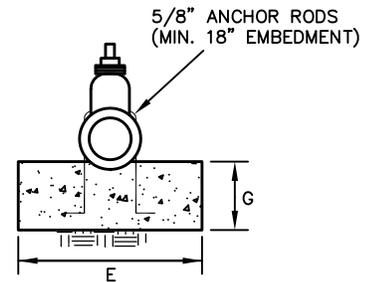
DEAD END
TABLE 1



THRUST BLOCK
(TYPICAL SECTION)



VALVES
PLAN



VALVES
SECTION

CARPINTERIA VALLEY WATER DISTRICT			
REV.	DATE	BY	DRAWN BY: BK
			SCALE: NONE DATE: 07/27/18
			APPROVED BY: _____ DISTRICT ENGINEER

THRUST RESTRAINT DETAIL

STANDARD DETAIL NO.
W-110
SHT 1 OF 2

THRUST BLOCK DIMENSIONS

TABLE 1

PIPE SIZE (IN.)	CROSSES, TEES, DEAD ENDS AND VALVES DIMENSION ARE IN FEET								90 & 45 DEGREE HORIZ. BENDS DIMENSION ARE IN FEET	
	T	h	B	C	D	E	F	G	A (90°)	A (45°)
4	3.00	2.00	1.25	1.50	2.25	2.00	1.50	1.50	2.25	1.25
6	4.00	2.50	2.25	3.00	4.00	2.00	1.50	1.50	4.00	2.25
8	5.00	3.00	3.25	4.50	5.75	2.00	2.00	1.50	6.00	3.25
10	6.00	3.50	4.00	5.50	7.00	2.50	2.00	1.50	8.00	4.25
12	7.00	4.00	5.00	7.00	8.75	3.00	2.50	2.00	10.00	5.50
14	8.00	4.50	6.00	8.50	10.50	3.00	2.50	2.00	12.00	6.50

BLOCK SIZED BASED ON 250 PSI TEST PRESSURE
AND 1000 PSF SOIL BEARING CAPACITY

TABLE 2

PIPE SIZE (IN.)	22 1/2 & 11 1/4 DEGREE HORIZONTAL BENDS DIMENSION ARE IN FEET			
	T	h	A(22 1/2°)	A(11 1/4°)
4	2.00	1.50	1.50	1.50
6	2.50	1.50	2.00	1.50
8	3.00	2.00	2.50	1.50
10	3.50	2.00	4.00	2.00
12	3.50	2.00	5.50	2.75
14	4.00	2.50	6.00	3.00

BLOCK SIZED BASED ON 250 PSI TEST PRESSURE
AND 1000 PSF SOIL BEARING CAPACITY

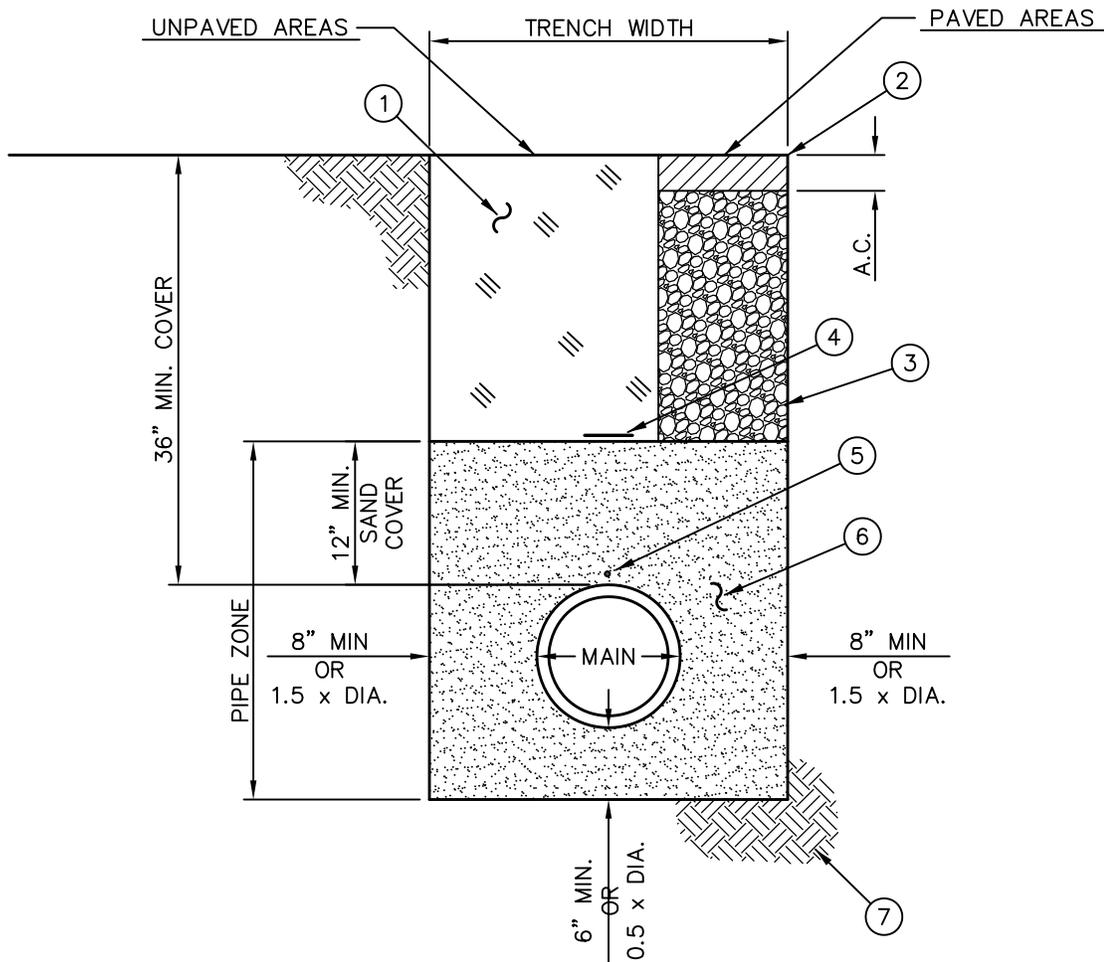
TABLE 3

PIPE SIZE (IN.)	VERTICAL BENDS REQUIRED VOLUME IN CUBIC FEET		
	45°	22 1/2°	11 1/4°
4	16	8	4
6	36	18	9
8	64	32	16
10	100	51	25
12	144	73	37
14	196	100	50

GENERAL NOTES

- A. THE VALUES IN TABLE 1 ABOVE FOR SIZE OF THRUST BLOCK ARE BASED ON A TEST PRESSURE OF 250 PSI AND SOIL BEARING CAPACITY OF 1000 PSF. A HIGHER SOIL BEARING PRESSURE MAY BE USED, IF THE PROJECT ENGINEER SUBMITS TO THE DISTRICT A REPORT PREPARED BY A LICENSED GEOTECHNICAL ENGINEER INDICATING THAT THE NATIVE SOILS AT THE PROJECT SITE HAVE A HIGHER SOIL BEARING PRESSURE.
- B. THE PROJECT ENGINEER SHALL SUBMIT CALCULATIONS FOR THRUST BLOCK SIZES OTHER THAN THOSE RECOMMENDED ABOVE. DIMENSIONS OF THRUST BLOCKS SHALL BE SHOWN ON THE PLANS.
- C. CONCRETE MIX SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
- D. THRUST BLOCKS SHALL BE INSTALLED TO THE DIMENSIONS AND CONFIGURATIONS AS SHOWN.
- E. THRUST BLOCKS SHALL BE POURED SOLIDLY AGAINST FIRM UNDISTURBED NATIVE SOIL.
- F. CONCRETE POURED AGAINST THE PIPE FITTING SHALL NOT EXTEND BEYOND THE JOINTS, AND A MIN. 3" CLEARANCE SHALL BE MAINTAINED FROM BOLTS.
- G. JOINTS SHALL BE WRAPPED WITH TRENTON #1 WAX TAPE BEFORE POURING CONCRETE.
- H. UNLESS APPROVED OTHERWISE BY THE CVWD INSPECTOR, WOOD FORMS OR SAND BAGS SHALL BE USED FOR FORMING THRUST BLOCKS EXCEPT ON BEARING FACE OF BLOCKS.
- I. ANCHOR RODS AT VALVES AND VERTICAL BENDS SHALL BE EPOXY COATED.

REV.	DATE	BY	CARPINTERIA VALLEY WATER DISTRICT	THRUST RESTRAINT DETAIL	STANDARD DETAIL NO. W-110
			DRAWN BY: BK		
			SCALE: NONE	DATE: 07/27/18	
			APPROVED BY: _____	DISTRICT ENGINEER	SHT 2 OF 2



ITEM

DESCRIPTION

- 1 NATIVE CLASS II OR EQUIVALENT 95% RELATIVE COMPACTION (SEE NOTE E)
- 2 ASPHALT CONCRETE OVER AGGREGATE BASE SAWCUT EXISTING PAVEMENT PRIOR TO EXCAVATION (SEE NOTE B)
- 3 COMPACTED CLASS II BASE 2 SACK SLURRY (SEE NOTE A)
- 4 METALLIC IDENTIFICATION TAPE (CAUTION WATER LINE)
- 5 #10 SOFT COPPER TRACER WIRE FOR NON METALLIC PIPE
- 6 BEDDING: GRANULAR FILL SAND 90% RELATIVE COMPACTION
- 7 UNDISTURBED SOIL – TYP.

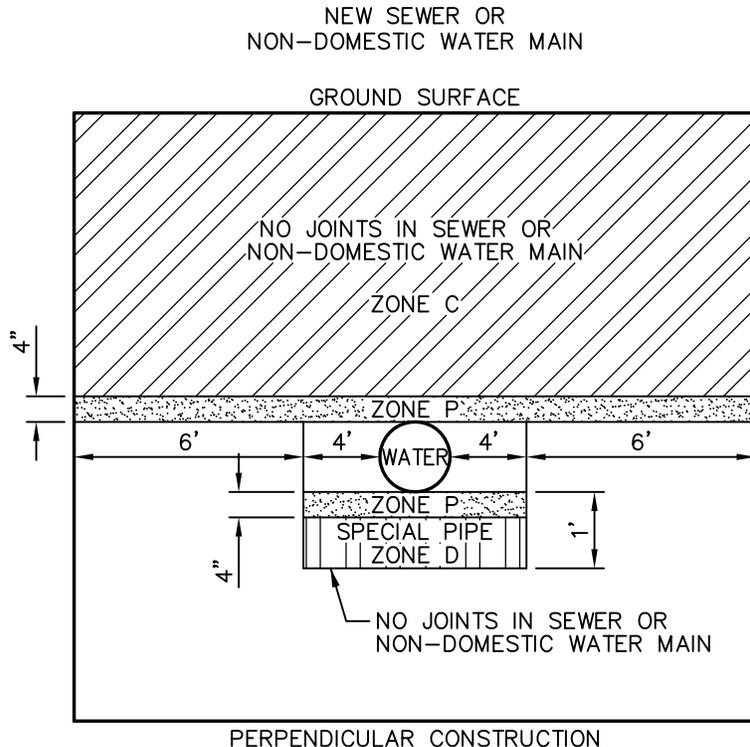
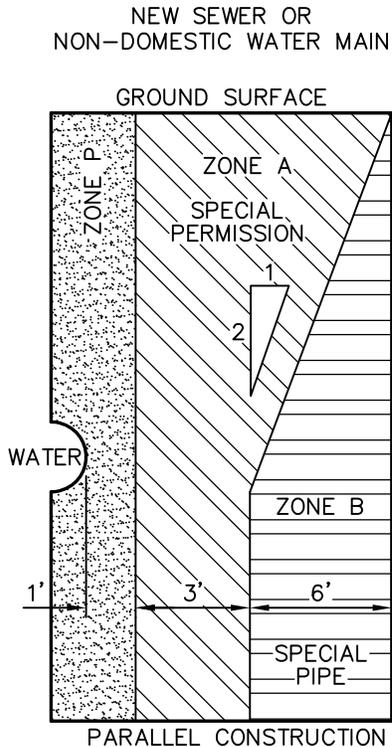
GENERAL NOTES

- A. WHEN EXCAVATING AND/OR BACKFILLING WITHIN THE CITY OF CARPINTERIA, COUNTY OF SANTA BARBARA OR STATE OF CALIFORNIA (STREET, ROAD OR HIGHWAY), SPECIFICATIONS AND REQUIRMENTS OF THE AGENCY HAVING JURISDICTION SHALL APPLY TO ALL AREAS OUTSIDE OF THE PIPE ZONE.
- B. PRIOR TO FINAL PAVING, ALL SAWCUT EDGES SHALL BE RECUT IF DAMAGED DURING PIPE INSTALLATION AND/OR BACKFILLING.
- C. ALL EXCAVATIONS AND TRENCHS SHALL BE PROTECTED IN ACCORDANCE WITH THE CALIFORNIA DEPT. OF INDUSTRIAL RELATIONS (CALOSHA) CODE OF REGULATIONS TITLE 8, SUB-CHAPTER 4 "CONSTRUCTION SAFETY ORDERS".
- D. NO JETTING, PONDING, OR FLOODING WILL BE PERMITTED FOR COMPACTION OF THE TRENCH.
- E. NATIVE CLASS II BACKFILL MATERIAL SHALL CONTAIN NO STONES OR PAVEMENT. BACKFILL SHALL BE COMPACTIONED TO 95% OF MAXIUM DENSITY AND PLACED IN LAYERS NOT EXCEEDING 1 FOOT IN VERTICAL THICKNESS FOR COMPACTION.

CARPINTERIA VALLEY WATER DISTRICT			TRENCH EXCAVATION AND BACKFILL DETAIL	STANDARD DETAIL NO.
REV.	DATE	BY		W-111
		DRAWN BY: TJB		
		SCALE: NONE DATE: 07/31/18		
		APPROVED BY: _____		SHT 1 OF 1
			DISTRICT ENGINEER	

CASE I

CONSTRUCTION REQUIREMENTS FOR SEWERS & NON-DOMESTIC WATER MAINS



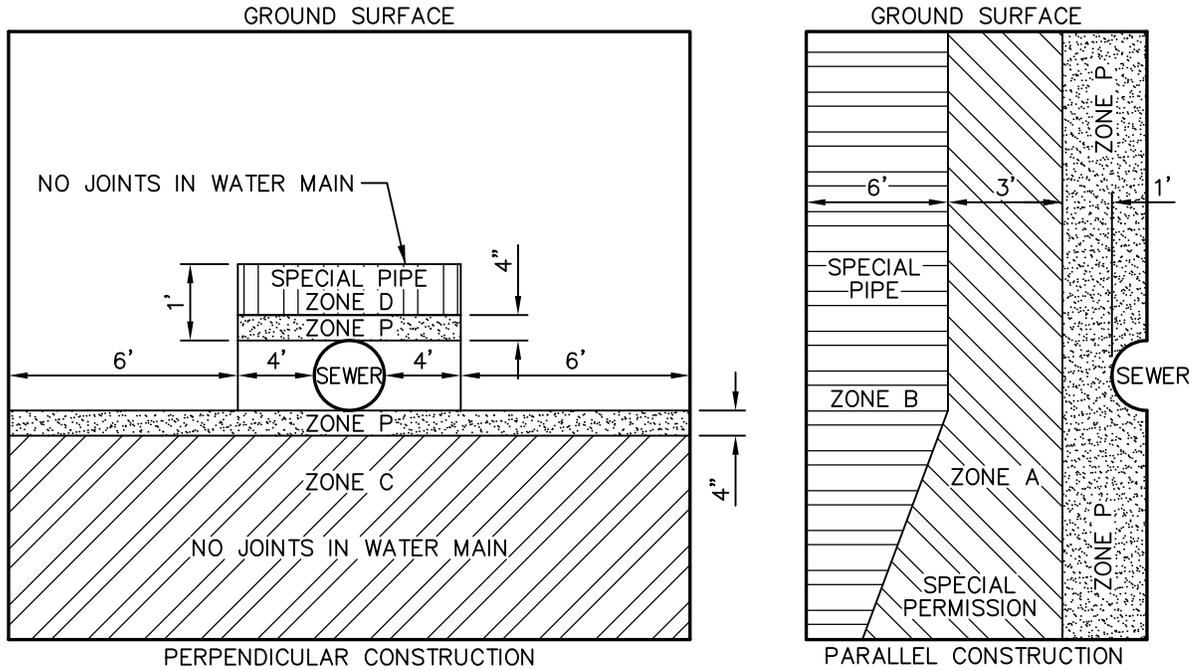
ZONE

- A — SPECIAL PERMISSION REQUIRED. DO NOT LOCATE ANY PARALLEL SEWER OR NON-DOMESTIC WATER MAIN IN THIS AREA WITHOUT DISTRICT ENGINEER APPROVAL
- B — EXTRA STRENGTH VCP WITH COMPRESSION JOINTS, DIP POLYETHYLENE LINED OR PVC SEWER PIPE WITH PUSH-ON TYPE RUBBER RING JOINTS FOR SEWER LINES; C900 PVC PIPE CLASS 200 OR DIP PUSH-ON TYPE RUBBER RING JOINTS FOR NON-DOMESTIC WATER MAINS
- C — DIP POLYETHYLENE LINED WITH MECHANICAL JOINTS, A CONTINUOUS SECTION OF C900 PVC PIPE CLASS 200 CENTERED OVER THE PIPE BEING CROSSED, OR ANY SEWER PIPE IN A 1/4" THICK CONTINUOUS STEEL CASING WITH ANNULAR SPACE PRESSURE GROUTED FOR SEWER LINES; FOR NON-DOMESTIC WATER MAINS USE ANY OF ABOVE WITH THE EXCEPTION THAT POLYETHYLENE LINING OF DIP IS NOT REQUIRED
- D — A CONTINUOUS SECTION OF DIP POLYETHYLENE LINED WITH PUSH-ON TYPE RUBBER RING JOINTS, A CONTINUOUS SECTION OF C900 PVC PIPE CLASS 200 CENTERED ON THE PIPE BEING CROSSED, ANY SEWER PIPE IN A 1/4" THICK CONTINUOUS STEEL CASING WITH ANNULAR SPACE PRESSURE GROUTED. FOR NON-DOMESTIC WATER MAINS USE ANY OF THE ABOVE WITH THE EXCEPTION THAT POLYETHYLENE LINING OF DIP IS NOT REQUIRED
- P — PROHIBITED ZONE; NO SEWERS OR NON-DOMESTIC WATER MAINS; SECTION 64630 (e) (2) CALIFORNIA ADMINISTRATIVE CODE, TITLE 22

REV.	DATE	BY	CARPINTERIA VALLEY WATER DISTRICT		PIPE ZONE DETAIL (CASE 1)	STANDARD DETAIL NO.
			DRAWN BY: TJB			W-112
			SCALE: NONE	DATE: 07/31/18		
			APPROVED BY: _____			
			DISTRICT ENGINEER		SHT 1 OF 2	

CASE II

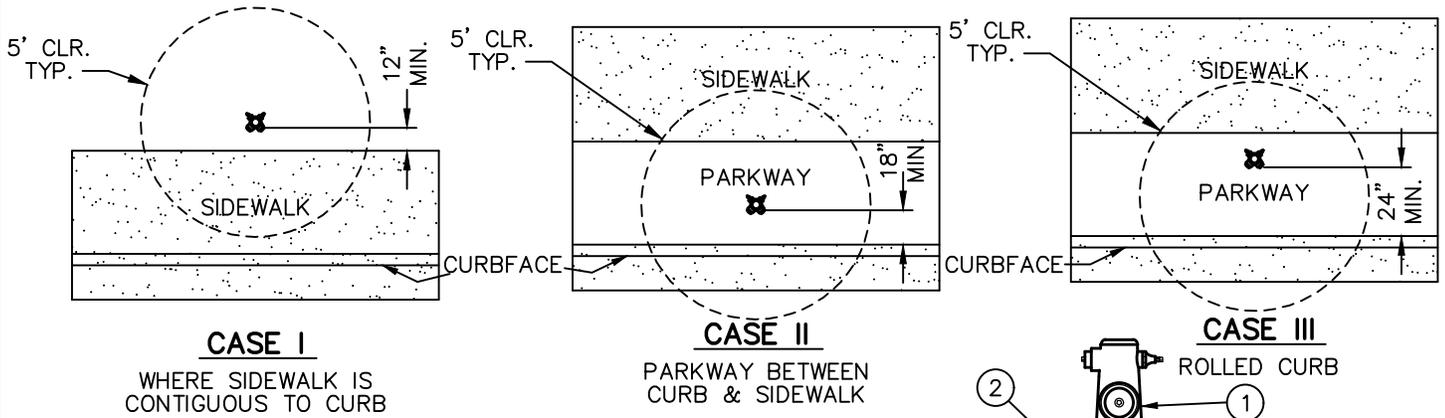
CONSTRUCTION REQUIREMENTS FOR DOMESTIC WATER MAINS



ZONE

- A — SPECIAL PERMISSION REQUIRED. DO NOT LOCATE ANY PARALLEL WATER MAIN IN THIS AREA WITHOUT DISTRICT ENGINEER APPROVAL
- B — IF THE SEWER OR NON-DOMESTIC WATER MAIN DOES NOT MEET THE REQUIREMENTS OF CASE I, ZONE B THE WATER MAIN SHALL BE DIP OR C900 PVC PIPE CLASS 200 WITH PUSH-ON TYPE RUBBER RING JOINTS, OR MORTAR-LINED AND COATED STEEL PIPE (1/4" THICK MINIMUM WALL) WITH FULLY WELDED JOINTS
- C — IF THE SEWER OR NON-DOMESTIC WATER MAIN DOES NOT MEET THE REQUIREMENTS OF CASE I, ZONE C, THE WATER MAIN SHALL BE CONSTRUCTED AS DESCRIBED FOR ZONE B ABOVE, WITH THE EXCEPTION THAT THE WATER MAIN SHALL CONTAIN NO JOINTS IN ZONE C
- D — IF THE SEWER OR NON-DOMESTIC WATER MAIN DOES NOT MEET THE REQUIREMENTS OF CASE I, ZONE D, THE WATER MAIN SHALL BE CONSTRUCTED AS DESCRIBED FOR ZONE B ABOVE, WITH THE EXCEPTION THAT THE WATER MAIN SHALL CONTAIN NO JOINTS IN ZONE D
- P — PROHIBITED ZONE; NO DOMESTIC WATER MAINS; SECTION 64630 (e) (2) CALIFORNIA ADMINISTRATIVE CODE, TITLE 22

REV.	DATE	BY	CARPINTERIA VALLEY WATER DISTRICT		PIPE ZONE DETAIL (CASE 2)	STANDARD DETAIL NO.
			DRAWN BY: TJB			W-112
			SCALE: NONE	DATE: 07/31/18		
			APPROVED BY: _____			
			DISTRICT ENGINEER		SHT 2 OF 2	

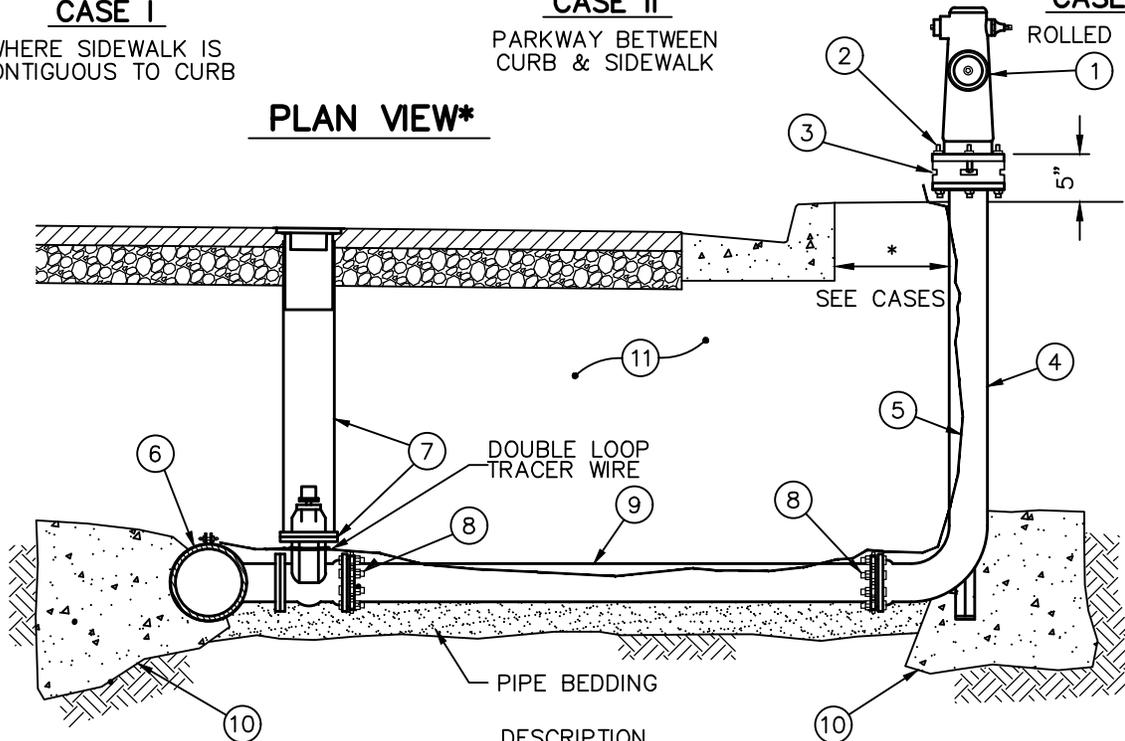


CASE I
WHERE SIDEWALK IS
CONTIGUOUS TO CURB

CASE II
PARKWAY BETWEEN
CURB & SIDEWALK

CASE III
ROLLED CURB

PLAN VIEW*



ITEM

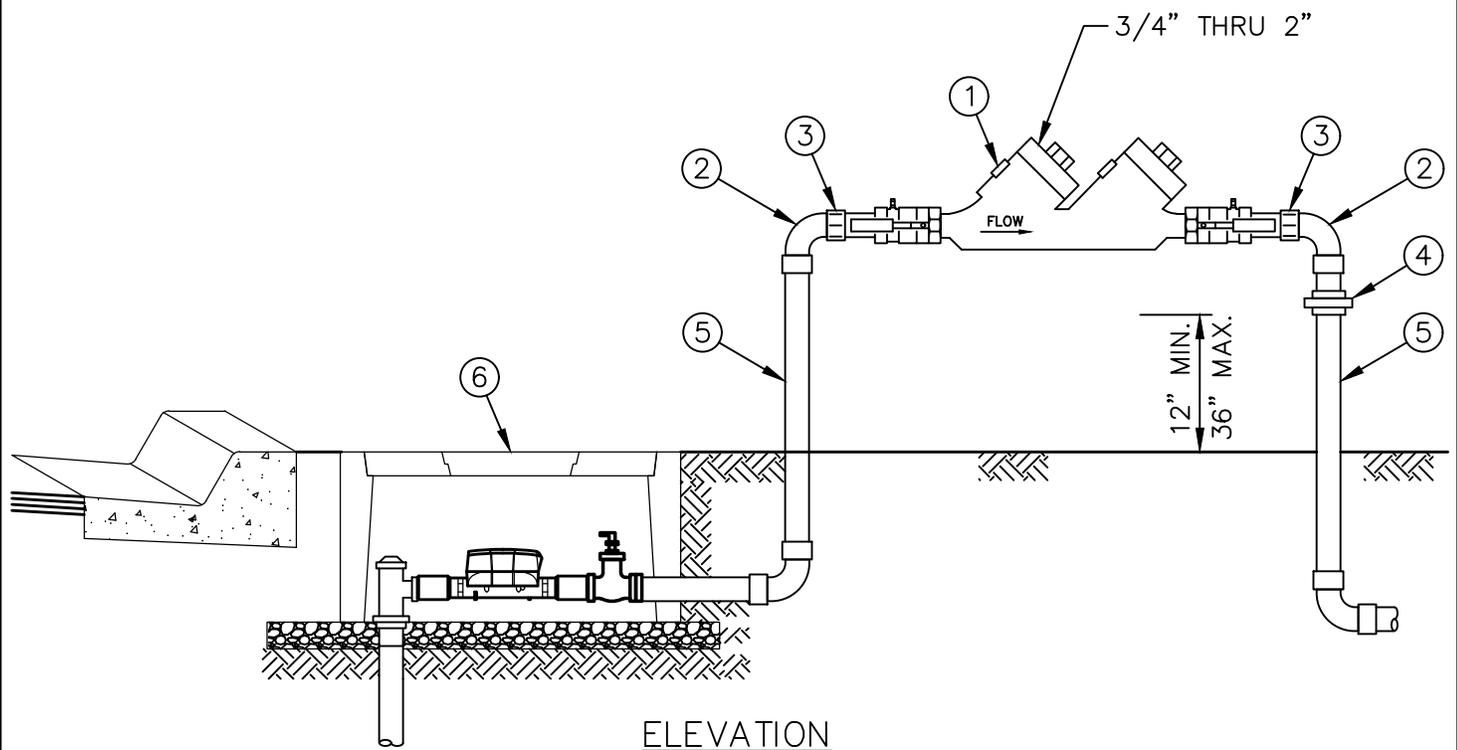
DESCRIPTION

- 1 AVK 2472 2.5X4 IN. OUTLETS (RESIDENTAL)/AVK 2492 2-2.5X1-4IN. (INDUSTRIAL)(COLOR YELLOW) OR CVWD APPROVED EQUAL. LOCATE OUTLETS PERPENDICULAR TO CURB LINE.
- 2 BREAK OFF BOLTS. INSTALL WITH HOLLOW TIPS UP.
- 3 HYDRANT GUARD BREAKAWAY CHECK VALVE OR APPROVED EQUIVALENT
- 4 6 INCH HYDRANT BURY MJ x FLG., LENGTH VARIES.
- 5 #10 AWG COATED COPPER TRACER WIRE ATTACHED TO EXISTING WIRE ON MAIN. DAYLIGHT @ F.H. BASE
- 6 TEE OR HOT-TAP PER W-106, W-107, OR W-108/
- 7 RWGV PER W-109
- 8 MECHANICAL JOINT RESTRAINED
- 9 6 INCH DIAMETER CLASS 305 (DR 14) PVC C900 (NO JOINTS UNLESS GREATER THAN 20 FEET)
- 10 THRUST RESTRAINT PER W-110
- 11 TRENCH DETAIL PER W-111

GENERAL NOTES

- A. REQUIRED JOINTS SHALL BE FULLY RESTRAINED

CARPINTERIA VALLEY WATER DISTRICT				FIRE HYDRANT ASSEMBLY		STANDARD DETAIL NO. W-113
REV.	DATE	BY	DRAWN BY: TJB			
NOTE 3	7/6/2020	BK				
NOTE 1	1/16/2024	SS	SCALE: NONE	DATE: 07/27/18		
APPROVED BY:						
			DISTRICT ENGINEER		SHT 1 OF 1	



ITEM

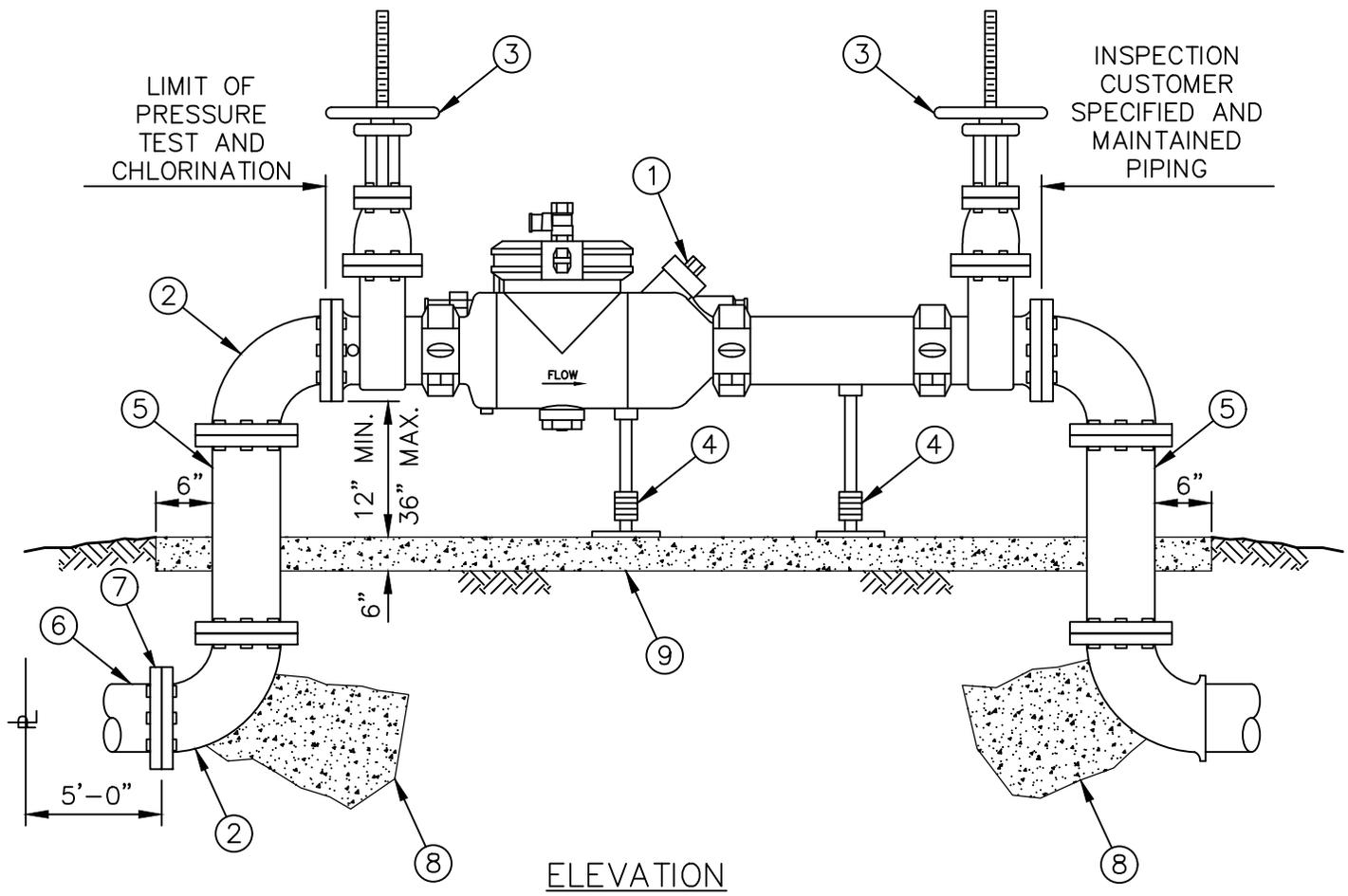
DESCRIPTION

- 1 WILKINS 350XL (LEAD FREE DEVICE)
- 2 COPPER 90 DEGREE ELBOW SILVER SOLDER OR FORD ELL PACK JOINT L44-77-NL
- 3 MIP SOLDER ADAPTOR
- 4 SOLDER UNION (OPTIONAL)
- 5 TYPE K COPPER
- 6 STANDARD SERVICE AND METER INSTALLATION PER W-101, W-102, W-103, OR W-104

GENERAL NOTES:

- A. ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED BY A CERTIFIED TESTER AFTER INSTALLATION, RELOCATION OR REPAIR AND RESULTS SUBMITTED TO CVWD.
- B. BACKFLOW MUST HAVE MINIMUM 2 FEET CLEARANCE ON ALL SIDES TO FACILITATE TESTING AND SERVICING.
- C. BACKFLOW SHALL BE NO LESS THAN ONE FOOT AND NO MORE THAN FIVE FEET FROM THE WATER METER.
- D. PIPEWORK DOWNSTREAM OF THE METER TO THE DEVICE SHALL BE EQUAL OR GREATER DIAMETER THAN THE METER.
- E. NO CONNECTION OR OUTLET BETWEEN METER AND DEVICE.

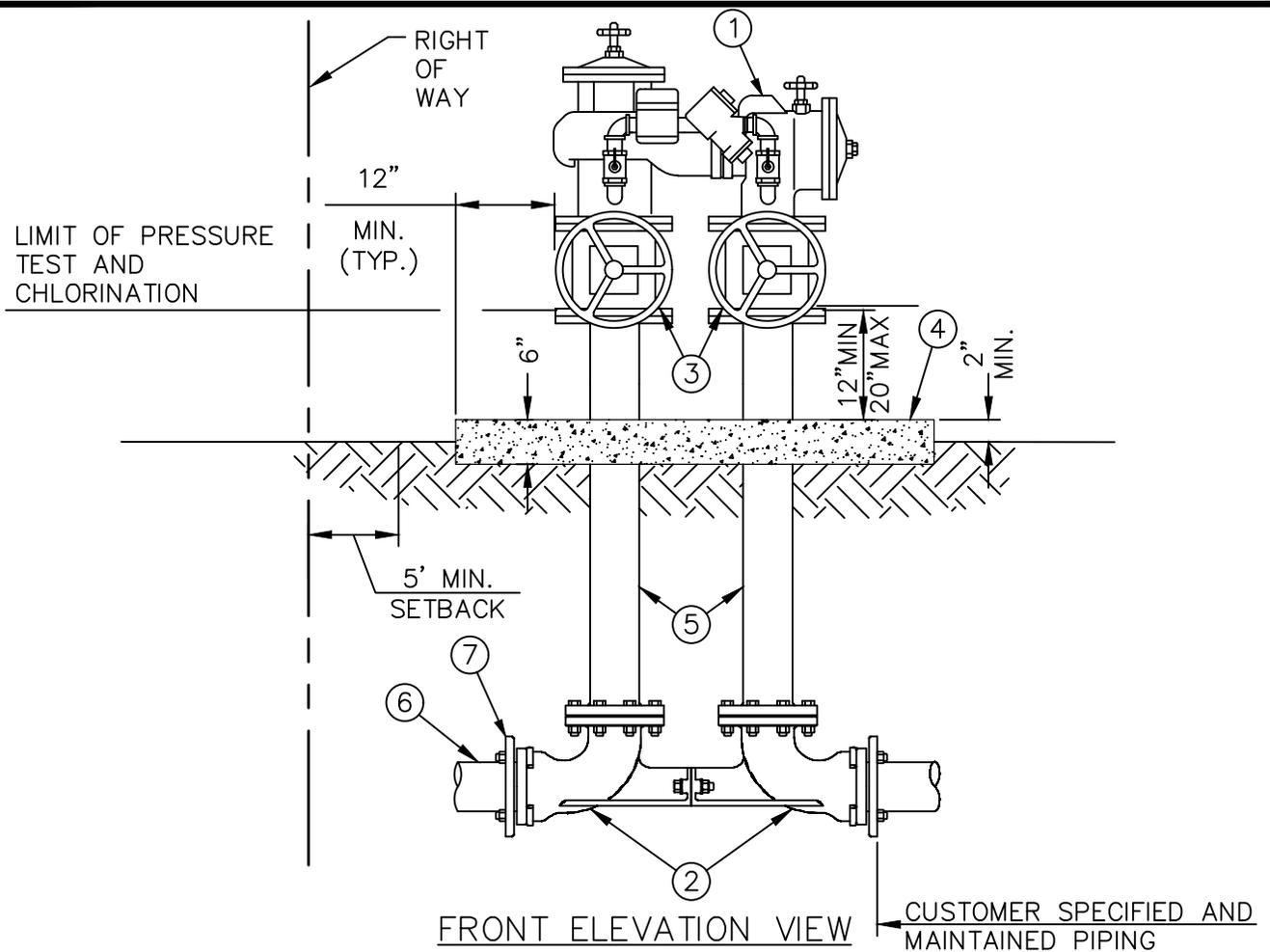
			CARPINTERIA VALLEY WATER DISTRICT		DOUBLE CHECK ASSEMBLY (2" OR SMALLER)	STANDARD DETAIL NO.
REV.	DATE	BY	DRAWN BY: TJB			W-114
X	12/2021	SS	SCALE: NONE	DATE: 07/31/18		
			APPROVED BY: _____			
			DISTRICT ENGINEER		SHT 1 OF 3	



ITEM	DESCRIPTION
1	WILKINS 350ASTDA-LM, WITH OS&Y. REPLACEMENT (R = CUSTOM LENGTH) WILKINS 350ASTDA-R-LM (LEAD FREE DEVICE)
2	FLANGED D.I. 90° BEND AND REDUCER IF INSTALLING A 3 INCH DEVICE
3	OS&Y RWGV WITH HAND-WHEEL
4	ADJUSTABLE PIPE SUPPORT
5	DUCTILE IRON SPOOL PIECE (FL X FL)
6	4 INCH MINIMUM DIAMETER (OR EQUAL TO DEVICE DIAMETER IF GREATER THAN 4 INCH) C-900 CL200 PVC PIPE PER W-111 AND W-112. HOT-TAP OR TEE PER W-106, W-107, OR W-108
7	FL X FL OR FL X MJ RESTRAINED CONNECTION
8	THRUST RESTRAINT PER W-110
9	CONCRETE PAD, PIPE O.D. ± 2FT X LENGTH OF ASSEMBLY + 1 FT (REINFORCED WITH W.W.F. 1.6 X 1.6)

- GENERAL NOTES:**
- A. ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED BY A CERTIFIED TESTER AFTER INSTALLATION, RELOCATION OR REPAIR AND RESULTS SUBMITTED TO CVWD.
 - B. BACKFLOW MUST HAVE MINIMUM 2 FEET CLEARANCE ON ALL SIDES TO FACILITATE TESTING AND SERVICING.
 - C. BACKFLOW SHALL BE NO LESS THAN ONE FOOT AND NO MORE THAN FIVE FEET FROM THE WATER METER.
 - D. BACKFLOW ASSEMBLY SHALL BE A MINIMUM OF 36" FROM ANY STRUCTURE, CURB OR SIDEWALK.
 - E. PRESSURE TEST AND CHLORINATE TO LIMITS SHOWN ABOVE.
 - F. CVWD TO SUPPLY BYPASS METER.

CARPINTERIA VALLEY WATER DISTRICT			DOUBLE CHECK DETECTOR ASSEMBLY (3" OR LARGER)		STANDARD DETAIL NO. W-114
REV.	DATE	BY	DRAWN BY: TJB		
X	12/2021	SS	SCALE: NONE	DATE: 07/31/18	
			APPROVED BY: _____ DISTRICT ENGINEER		



ITEM

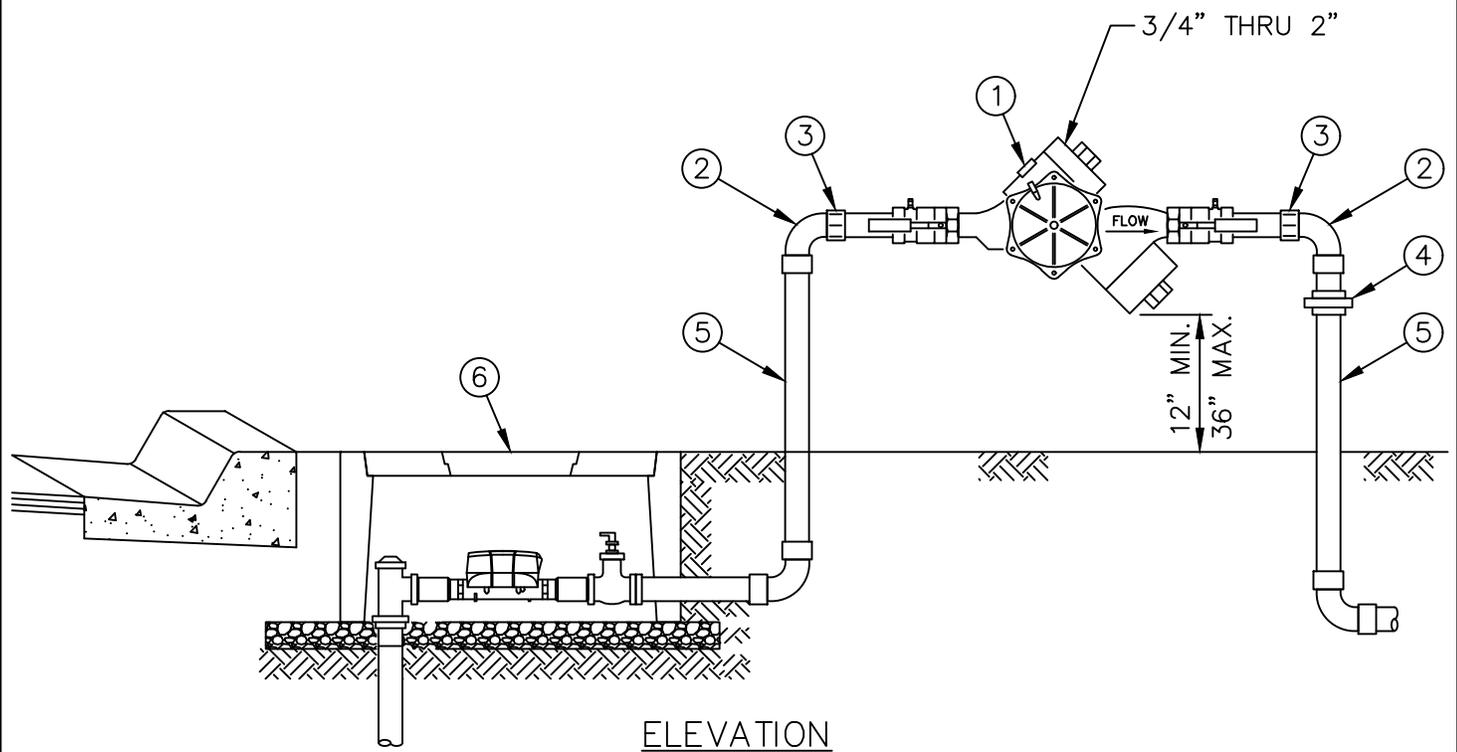
DESCRIPTION

- 1 WILKINS 450STDA WITH 400ST SETTER "N-STYLE" DEVICE (LEAD FREE DEVICE)
- 2 FLANGED D.I. 90° BENDS WITH THRUST BLOCK PER W-110 OR DUCTILE IRON VALVE SETTER FROM DEVICE MANUFACTURER
- 3 OS&Y RWGV WITH HAND-WHEEL
- 4 CONCRETE PAD, PIPE O.D. ± 2FT X LENGTH OF ASSEMBLY + 1 FT (REINFORCED WITH W.W.F. 1.6 X 1.6)
- 5 DUCTILE IRON SPOOL PIECE (FL X FL)
- 6 4 INCH MINIMUM DIAMETER (OR EQUAL TO DEVICE DIAMETER IF GREATER THAN 4 INCH) C-900 CL200 PVC PIPE PER W-111 AND W-112. HOT-TAP OR TEE PER W-106, W-107, OR W-108
- 7 FL X FL OR FL X MJ RESTRAINED CONNECTION

GENERAL NOTES:

- A. ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED BY A CERTIFIED TESTER AFTER INSTALLATION, RELOCATION OR REPAIR AND RESULTS SUBMITTED TO CVWD.
- B. BACKFLOW MUST HAVE MINIMUM 2 FEET CLEARANCE ON ALL SIDES TO FACILITATE TESTING AND SERVICING.
- C. BACKFLOW SHALL BE NO LESS THAN ONE FOOT AND NO MORE THAN FIVE FEET FROM THE WATER METER.
- D. BACKFLOW ASSEMBLY SHALL BE A MINIMUM OF 36" FROM ANY STRUCTURE, CURB OR SIDEWALK.
- E. PRESSURE TEST AND CHLORINATE TO LIMITS SHOWN ABOVE.
- F. CVWD TO SUPPLY BYPASS METER.

			CARPINTERIA VALLEY WATER DISTRICT		COMPACT DOUBLE CHECK DETECTOR ASSEMBLY (3" OR LARGER)	STANDARD DETAIL NO.
REV.	DATE	BY	DRAWN BY: TJB			W-114
X	12/2021	SS	SCALE: NONE	DATE: 07/31/18		
			APPROVED BY: _____ DISTRICT ENGINEER			SHT 3 OF 3

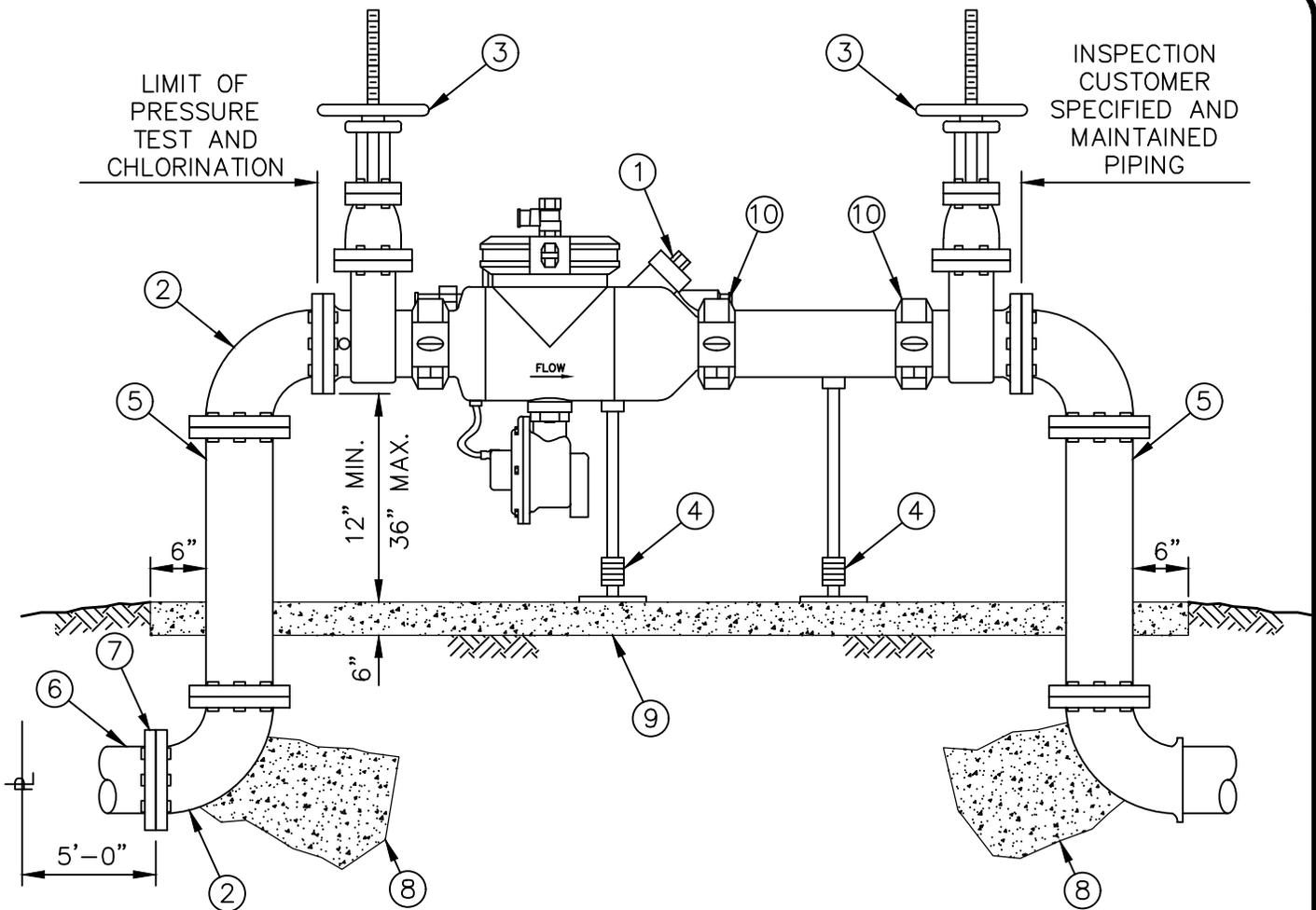


ITEM	DESCRIPTION
1	RP WILKINS 975XL2 – LEAD FREE
2	COPPER 90 DEGREE ELBOW SILVER SOLDER OR FORD ELL PACK JOINT L44-77-NL
3	MIP SOLDER ADAPTOR
4	SOLDER UNION
5	TYPE K COPPER
6	STANDARD SERVICE AND METER INSTALLATION PER W-101, W-102, W-103, OR W-104

GENERAL NOTES:

- A. ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED BY A CERTIFIED TESTER AFTER INSTALLATION, RELOCATION OR REPAIR AND RESULTS SUBMITTED TO CVWD.
- B. BACKFLOW MUST HAVE MINIMUM 2 FEET CLEARANCE ON ALL SIDES TO FACILITATE TESTING AND SERVICING.
- C. BACKFLOW SHALL BE NO LESS THAN ONE FOOT AND NO MORE THAN THREE FEET FROM THE WATER METER.
- D. PIPEWORK DOWNSTREAM OF THE METER TO THE DEVICE SHALL BE EQUAL OR GREATER DIAMETER THAN THE METER.
- E. NO CONNECTION OR OUTLET BETWEEN METER AND DEVICE.
- F. FOR COMMON LINE OF WATER & FIRE SPRINKLER SYSTEM, RP REQUIRED AT THE METER.

CARPINTERIA VALLEY WATER DISTRICT			REDUCED PRESSURE PRINCIPLE ASSEMBLY (2" OR SMALLER)	STANDARD DETAIL NO.
REV. X	DATE 7/2022	BY SS		W-115
DRAWN BY: TJB		DATE: 07/31/18		
SCALE: NONE		APPROVED BY: _____		
DISTRICT ENGINEER			SHT 1 OF 3	



ITEM

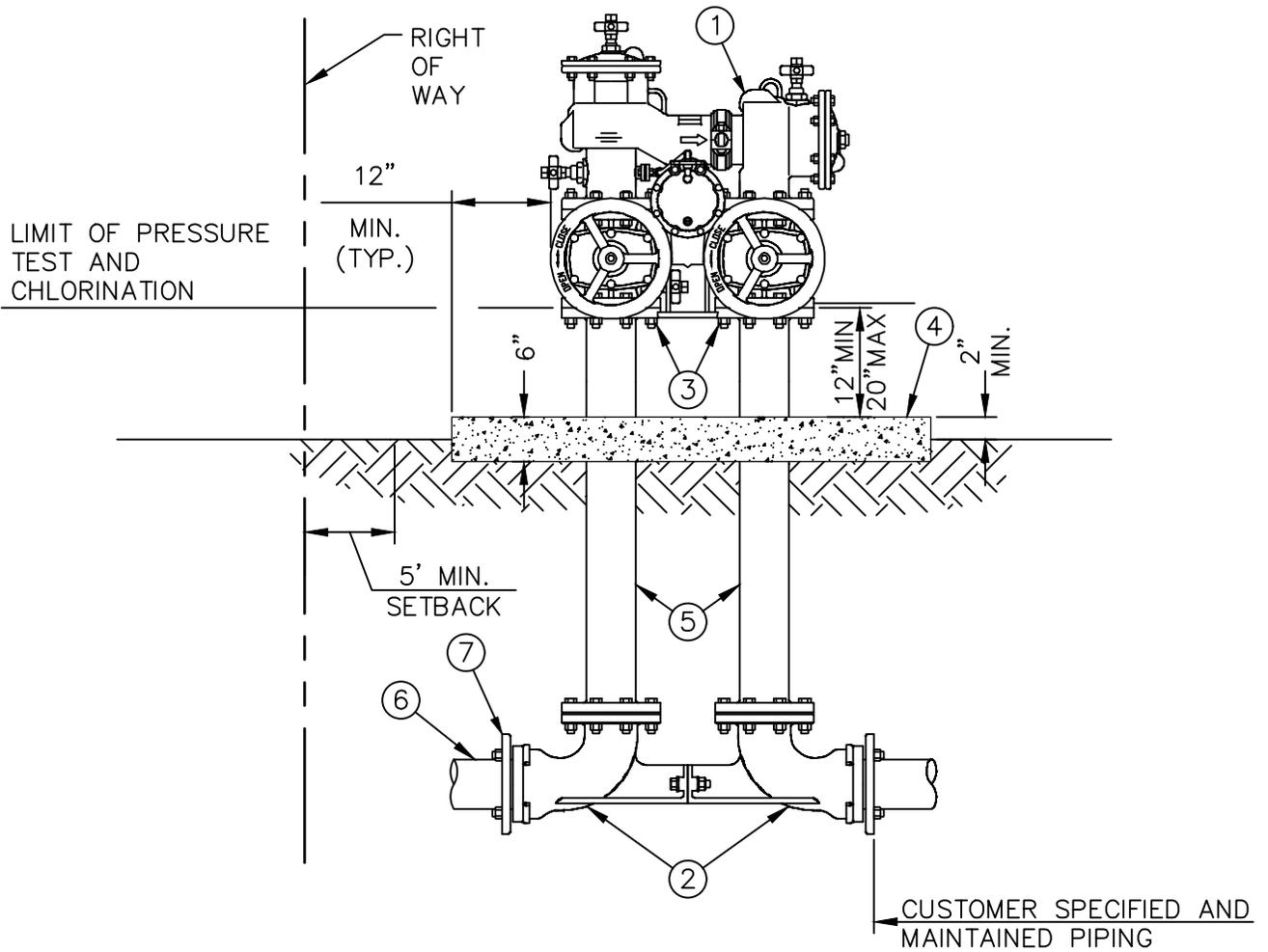
DESCRIPTION

- 1 RP WILKINS 375AST – LEAD FREE. REPLACEMENT (R = CUSTOM LENGTH SHOWN) RP WILKINS 375ASTR
- 2 FLANGED D.I. 90° BEND AND REDUCER IF INSTALLING A 3 INCH DEVICE
- 3 OS&Y RWGV WITH HAND-WHEEL
- 4 ADJUSTABLE PIPE SUPPORT
- 5 DUCTILE IRON SPOOL PIECE (FL X FL)
- 6 4 INCH MINIMUM DIAMETER (OR EQUAL TO DEVICE DIAMETER IF GREATER THAN 4 INCH) C-900 CL200 PVC PIPE PER W-111 AND W-112. HOT-TAP OR TEE PER W-106, W-107, OR W-108
- 7 FL X FL OR FL X MJ RESTRAINED CONNECTION
- 8 THRUST RESTRAINT PER W-110
- 9 CONCRETE PAD, PIPE O.D. ± 2FT X LENGTH OF ASSEMBLY + 1 FT (REINFORCED WITH W.W.F. 1.6 X 1.6)
- 10 VICTAULIC COUPLING

GENERAL NOTES:

- A. ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED BY A CERTIFIED TESTER AFTER INSTALLATION, RELOCATION OR REPAIR AND RESULTS SUBMITTED TO CVWD.
- B. BACKFLOW MUST HAVE MINIMUM 2 FEET CLEARANCE ON ALL SIDES TO FACILITATE TESTING AND SERVICING.
- C. BACKFLOW SHALL BE NO LESS THAN ONE FOOT AND NO MORE THAN THREE FEET FROM THE WATER METER.
- D. BACKFLOW ASSEMBLY SHALL BE A MINIMUM OF 36" FROM ANY STRUCTURE, CURB OR SIDEWALK.
- E. PRESSURE TEST AND CHLORINATE TO LIMITS SHOWN ABOVE.
- F. CVWD TO SUPPLY BYPASS METER.

CARPINTERIA VALLEY WATER DISTRICT			REDUCED PRESSURE PRINCIPLE ASSEMBLY (3" OR LARGER)	STANDARD DETAIL NO.
REV.	DATE	BY		W-115
		DRAWN BY: TJB		
		SCALE: NONE DATE: 07/31/18		
		APPROVED BY: _____		SHT 2 OF 3
			DISTRICT ENGINEER	



ITEM

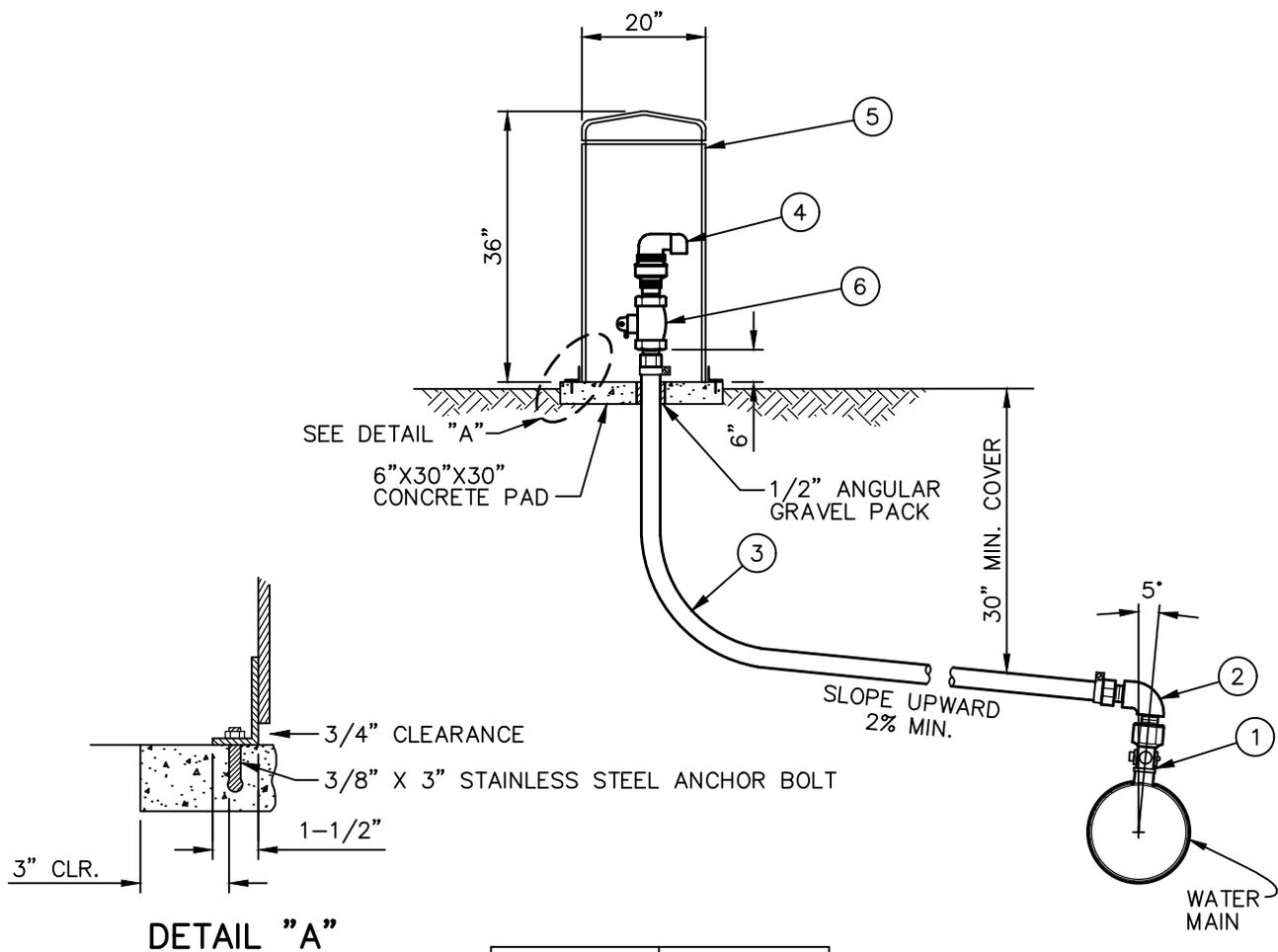
DESCRIPTION

- 1 RP WILKINS 475STDA – LEAD FREE "N-STYLE" DEVICE
- 2 FLANGED D.I. 90° BENDS WITH THRUST BLOCK PER W-110 OR DUCTILE IRON VALVE SETTER FROM DEVICE MANUFACTURER
- 3 OS&Y RWGV WITH HAND-WHEEL
- 4 CONCRETE PAD, PIPE O.D. ± 2FT X LENGTH OF ASSEMBLY + 1 FT (REINFORCED WITH W.W.F. 1.6 X 1.6)
- 5 DUCTILE IRON SPOOL PIECE (FL X FL)
- 6 4 INCH MINIMUM DIAMETER (OR EQUAL TO DEVICE DIAMETER IF GREATER THAN 4 INCH) C-900 CL200 PVC PIPE PER W-111 AND W-112. HOT-TAP OR TEE PER W-106, W-107, OR W-108
- 7 FL X FL OR FL X MJ RESTRAINED CONNECTION

GENERAL NOTES:

- A. ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED BY A CERTIFIED TESTER AFTER INSTALLATION, RELOCATION OR REPAIR AND RESULTS SUBMITTED TO CVWD.
- B. BACKFLOW MUST HAVE MINIMUM 2 FEET CLEARANCE ON ALL SIDES TO FACILITATE TESTING AND SERVICING.
- C. BACKFLOW SHALL BE NO LESS THAN ONE FOOT AND NO MORE THAN THREE FEET FROM THE WATER METER.
- D. BACKFLOW ASSEMBLY SHALL BE A MINIMUM OF 36" FROM ANY STRUCTURE, CURB OR SIDEWALK.
- E. PRESSURE TEST AND CHLORINATE TO LIMITS SHOWN ABOVE.
- F. CVWD TO SUPPLY BYPASS METER.

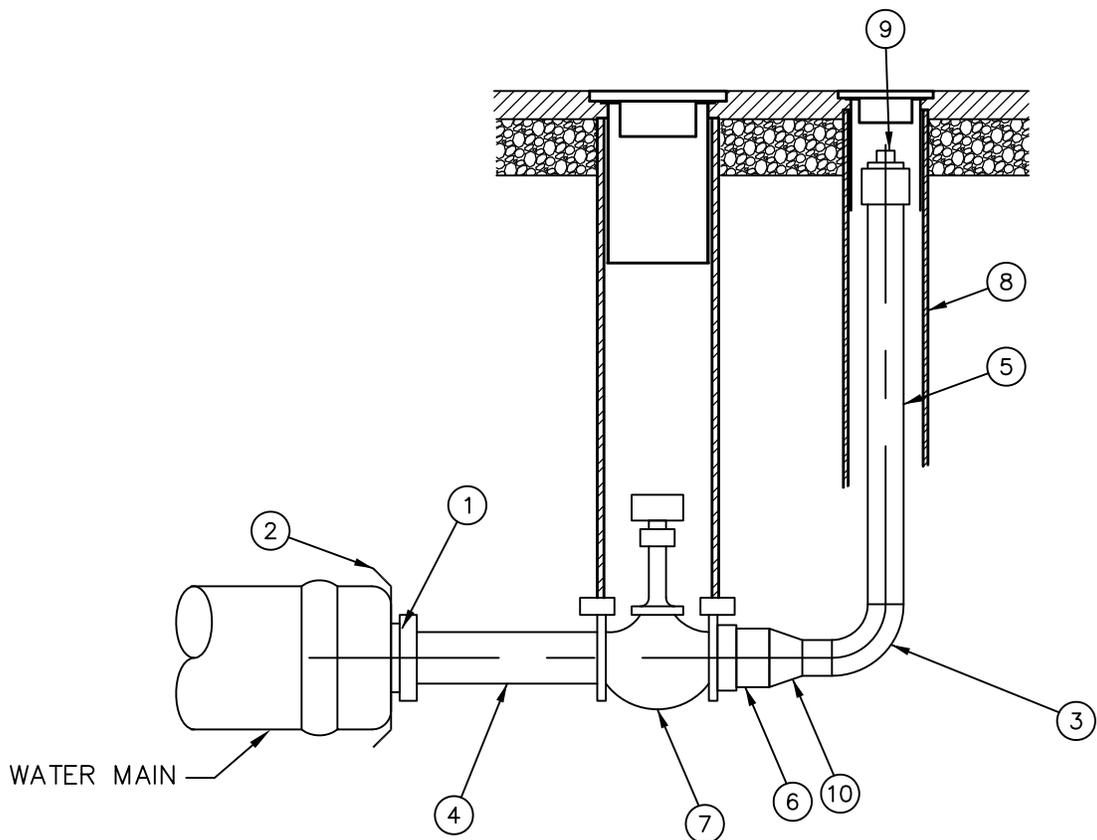
CARPINTERIA VALLEY WATER DISTRICT			REDUCED PRESSURE PRINCIPLE ASSEMBLY (3" OR LARGER)	STANDARD DETAIL NO.
REV.	DATE	BY		W-115
		DRAWN BY: TJB		
		SCALE: NONE DATE: 07/31/18		
		APPROVED BY: _____		SHT 3 OF 3
			DISTRICT ENGINEER	



PIPELINE SIZE (INCH)	AIR VALVE SIZE (INCH)
10" - 16"	2"
6" - 8"	1"

- | ITEM | DESCRIPTION |
|------|---|
| 1 | SERVICE CONNECTION INSTALLED WITH FIPT THREAD OUTLET CORP STOP |
| 2 | 2 INCH 90 DEGREE ELBOW, MIPT X CTS PACK JOINT, FORD C84-77-NL |
| 3 | 2 INCH REHAU MUNICIPEX PEX _a CTS 3306 SDR 9 POTABLE TUBING AWWA WITH INSERTS |
| 4 | COMBINATION AIR VALVE - ARI "BARAK" D-040 |
| 5 | 20 INCH DIA. ARMORCAST HOUSING CANISTER WITH SANDSTONE FINISH |
| 6 | 2 INCH CTS PACK JOINT X FIPT BALL VALVE, FORD B41-777W-NL |

CARPINTERIA VALLEY WATER DISTRICT			AIR VAC ASSEMBLY	STANDARD DETAIL NO.
REV.	DATE	BY		W-116
X	8/2021	SS	DRAWN BY: TJB	SHT 1 OF 1
			SCALE: NONE DATE: 07/27/18	
			APPROVED BY: _____ DISTRICT ENGINEER	



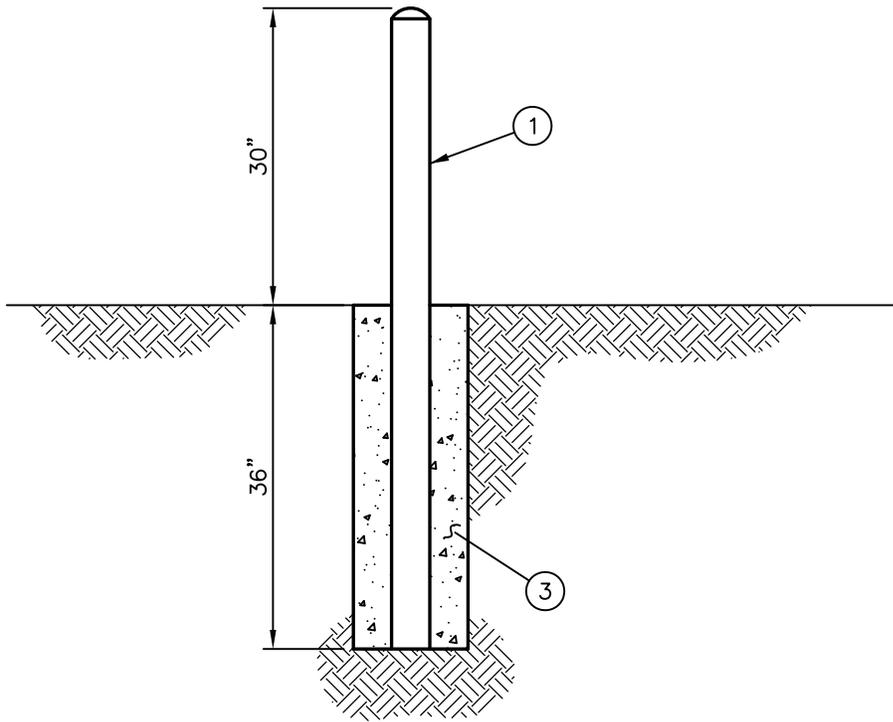
ELEVATION

ITEM

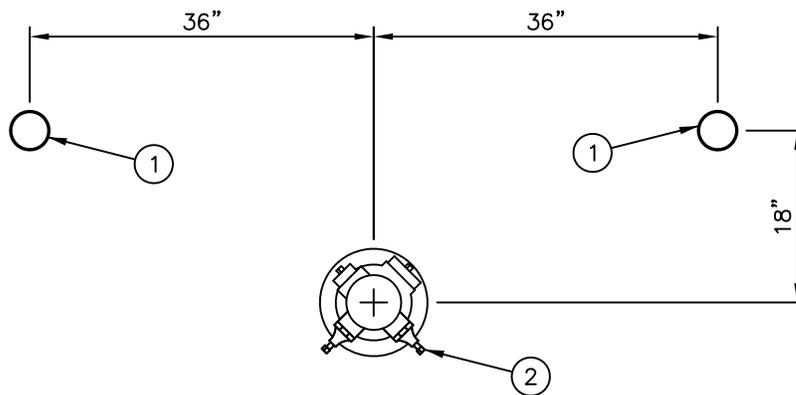
DESCRIPTION

- 1 3 INCH SS BUSHING
- 2 TAR PAPER
- 3 2 INCH COPPER 90 DEGREE ELBOW SILVER SOLDERED OR FORD ELL PACK JOINT L44-77-NL
- 4 3 INCH BRASS NIPPLE
- 5 2 INCH TYPE K COPPER TUBING WITH MIP ADAPTOR
- 6 3 INCH COPPER MIP X COPPER SWEAT ADAPTOR
- 7 3 INCH PLUG VALVE AFC CORP. NO. R-1430 W/2" SQ. OPERATING NUT (OR APPROVED EQUAL)
- 8 VALVE CAN ASSEMBLY PER W-109
- 9 2 INCH BRASS COUPLING WITH PLUG
- 10 3 INCH X 2 INCH COPPER REDUCER

			CARPINTERIA VALLEY WATER DISTRICT		BLOW OFF ASSEMBLY	STANDARD DETAIL NO.
REV.	DATE	BY	DRAWN BY: TJB			W-117
			SCALE: NONE	DATE: 07/27/18		
			APPROVED BY: _____			
			DISTRICT ENGINEER			SHT 1 OF 1



POST DETAIL



PLAN

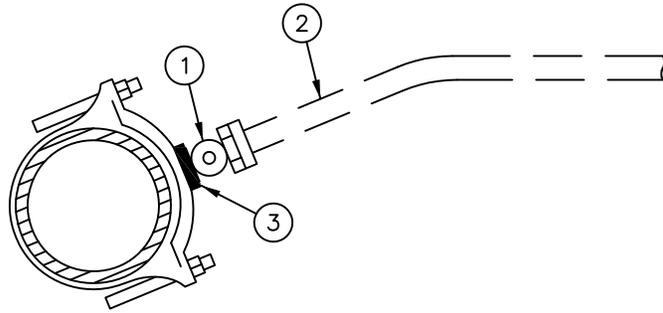
ITEM

DESCRIPTION

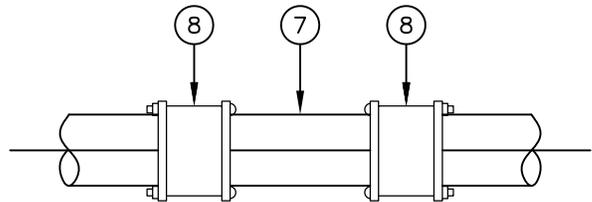
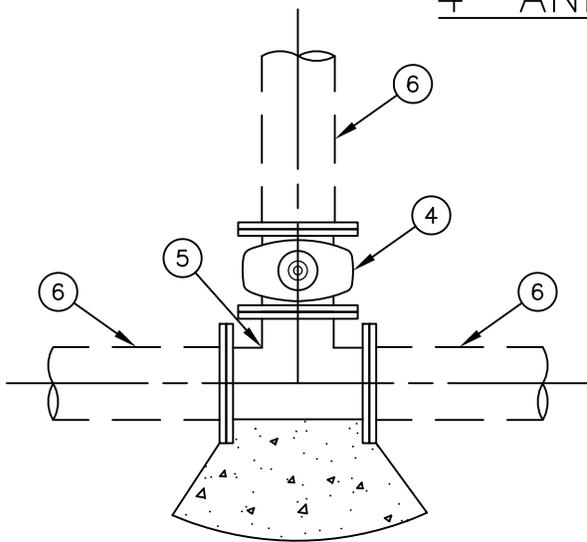
- 1 4 INCH DIAMETER STANDARD WEIGHT STEEL PIPE, CONCRETE FILLED AND PAINTED WITH SAFTEY YELLOW EPOXY PAINT
- 2 HYDRANT
- 3 CONCRETE FOOTING

			CARPINTERIA VALLEY WATER DISTRICT		GUARD POST DETAIL	STANDARD DETAIL NO.
REV.	DATE	BY	DRAWN BY: TJB			W-118
			SCALE: NONE	DATE: 08/01/18		
			APPROVED BY: _____			
			DISTRICT ENGINEER			SHT 1 OF 1

2" AND SMALLER



4" AND LARGER



ITEM

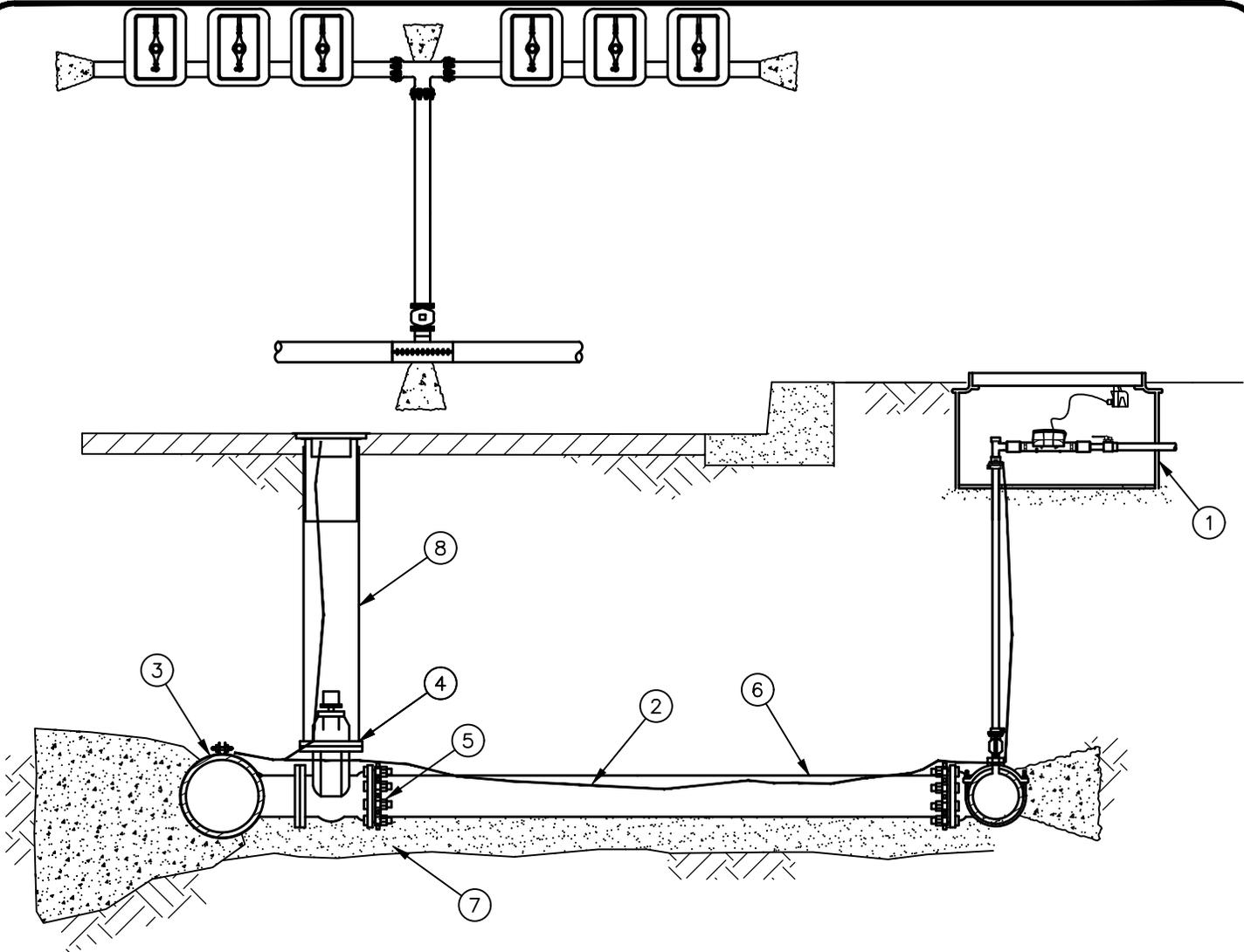
DESCRIPTION

- 1 REMOVE CORP STOP
- 2 DISCONNECT COPPER TUBING
- 3 INSTALL BRASS PLUG OR STAINLESS STEEL PLUG FOR STEEL PIPE (MAIN LINE)
- 4 REMOVE VALVE AND VALVE CAN
- 5 REMOVE TEE
- 6 REMOVE PIPE AS REQUIRED AND PLUG END WITH CONCRETE
- 7 INSTALL MINIMUM 3' SECTION OF PVC C900 CL200 PIPE
- 8 INSTALL AND WRAP TWO-BOLT MACRO COUPLING

GENERAL NOTES

- A. REMOVAL OF VALVE AND INSTALLATION OF A BLIND FLANGE REQUIRES CVWD APPROVAL
- B. CLOSING AND ABANDONING CORP STOP IN-PLACE REQUIRES CVWD APPROVAL

			CARPINTERIA VALLEY WATER DISTRICT		ABANDONMENT DETAIL	STANDARD DETAIL NO.
REV.	DATE	BY	DRAWN BY: TJB			W-119
			SCALE: NONE	DATE: 08/01/18		
			APPROVED BY: _____			
			DISTRICT ENGINEER			SHT 1 OF 1



ITEM

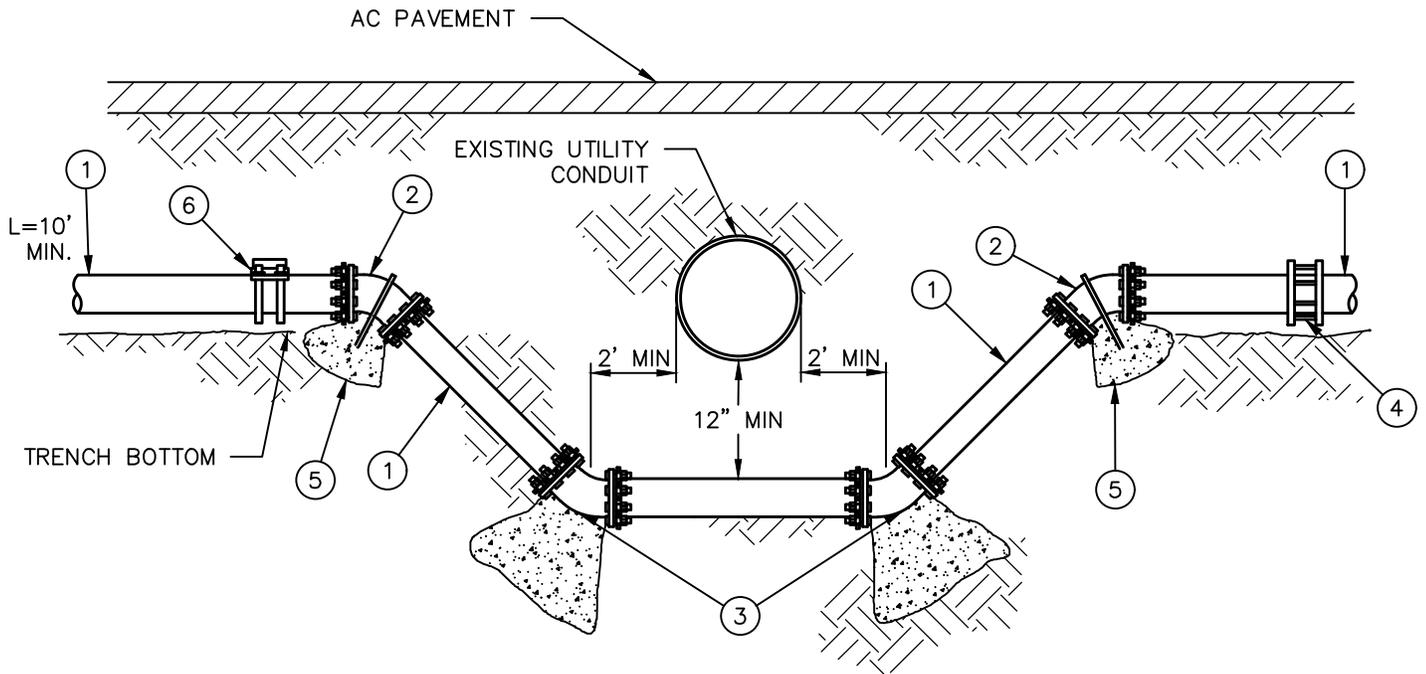
DESCRIPTION

- 1 SEE 3/4" METER DETAIL (W-101)
- 2 #10 AWG COATED COPPER TRACER WIRE ATTACHED TO EXISTING WIRE ON MAIN. DAYLIGHT @ AMS
- 3 TEE OR WELD ON NOZZLE (STEEL PIPE) OR TAPPING SLEEVE (ACP & PVC)
- 4 4" GATE VALVE FLG X FLG
- 5 FLANGE COUPLING ADAPTER RESTRAINED
- 6 4" DIAMETER CLASS 200 PVC C900
- 7 PIPE BEDDING
- 8 SEE VALVE ASSEMBLY DETAIL (W-109)

GENERAL NOTES

- A. IF SIDEWALK IS CONTIGUOUS TO CURB, SERVICE LINE IS TO BE EXTENDED 16" BEYOND BACK OF SIDEWALK
- B. NO TAP TO MAIN SHALL BE WITHIN 12" OF A COUPLING OR WITHIN 18" OF ANOTHER TAP
- C. NO TAP TO MAIN SHALL BE WITHIN 24" OF BEND UNLESS APPROVED BY THE DISTRICT
- D. NO METER BOX(S) SHALL BE WITHIN 18" OF EACH OTHER UNLESS APPROVED BY THE DISTRICT
- E. NO METER BOX SHALL BE WITHIN 48" OF DRIVEWAY CURB RETURN UNLESS APPROVED BY THE DISTRICT
- F. NO METER BOX SHALL BE WITHIN DRIVEWAY
- G. ALL SEAMS INSIDE OF METER BOX TO BE MORTARED UPON COMPLETION OF INSTALLATION
- H. IF THERE IS NOT EXISTING TRACER WIRE ON MAIN, THE SERVICE LINE TRACER WIRE SHALL BE WRAPPED AROUND THE CONNECTION OF THE CORPORATION STOP TO THE MAIN

			CARPINTERIA VALLEY WATER DISTRICT		METER MANIFOLD	STANDARD DETAIL NO.	
REV.	DATE	BY	DRAWN BY: SS			W-120	
			SCALE: NONE	DATE: 11/16/2021			
			APPROVED BY:				
			DISTRICT ENGINEER			SHT 1 OF 1	

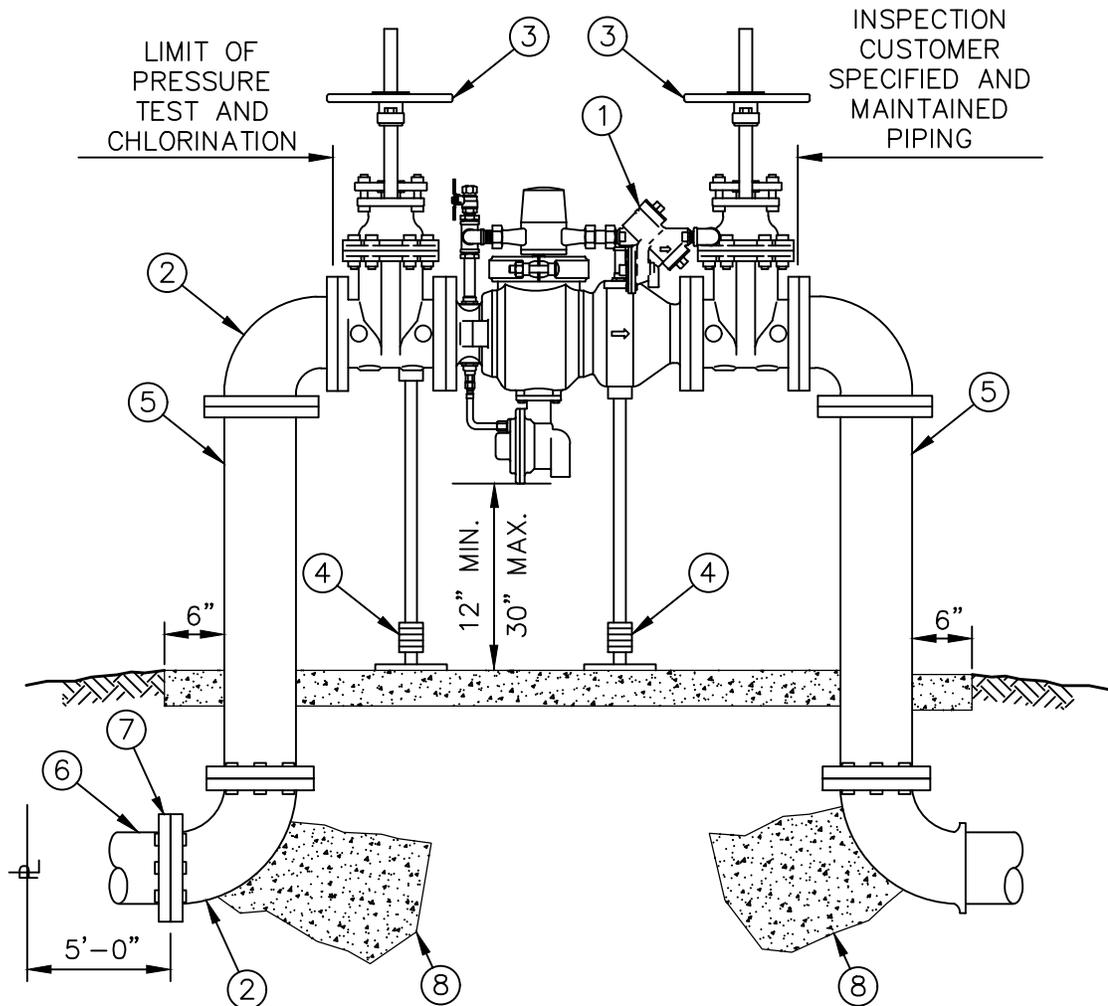


ITEM	DESCRIPTION
1	CL 305 PVC PIPE, AWWA C900 (LENGTH AS SHOWN OR AS REQUIRED)
2	45 DEGREE DIP BEND, MJ WITH RETAINER GLANDS
3	45 DEGREE DIP BEND, MJ WITH RETAINER GLANDS AND/OR STANDARD THRUST BLOCK WITH DISTRICT APPROVAL
4	FLEXIBLE COUPLING (IF NECESSARY)
5	CONCRETE RESTRAINT BLOCK WITH #4 REBAR TO SERVE AS DEAD-MAN ANCHOR
6	SERVICE SADDLE (SEE NOTE C)

GENERAL NOTES

- A. SEE CVWD APPROVED MATERIALS LIST.
- B. THE RESTRAINT BLOCKS SHALL BE A MINIMUM OF 24" IN HEIGHT AND 12" THICK. THE TOP OF THE BLOCK SHALL BE NO MORE THAN 6" ABOVE THE TOP OF THE PIPE. CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED IN CONFORMANCE WITH STANDARD DETAIL 1-110.
- C. SERVICE SADDLE SHALL BE INSTALLED ON THE HIGH POINT OF THE OFFSET 2' FROM THE NEAREST FITTING, FOR THE INSTALLATION OF COMBINATION AIR VALVE SPECIFIED ON THE PLAN. CAV SHALL BE 1" ON 8" AND SMALLER MAINS AND 2" ON LARGER MAINS (SEE STANDARD DETAIL W-116).
- D. USE AWWA STANDARD C-153 DUCTILE IRON FITTINGS FOR ALL MECHANICAL JOINT FITTINGS.
- E. DUCTILE OFFSET FITTINGS ARE AN ACCEPTABLE SUBSTITUTION.

CARPINTERIA VALLEY WATER DISTRICT			VERTICAL OFFSET FOR PVC PIPE	W-121	
REV.	DATE	BY			DRAWN BY: SS
					SCALE: NONE DATE: 11/17/2021
					APPROVED BY: _____ <small>DISTRICT ENGINEER</small>
				STANDARD DETAIL NO.	
				SHT 1 OF 1	



ITEM	DESCRIPTION
1	RPDA WILKINS 375DA – LEAD FREE REDUCED PRESSURE DETECTOR ASSEMBLY
2	FLANGED D.I. 90° BEND AND REDUCER IF INSTALLING A 3 INCH DEVICE
3	OS&Y RWGV WITH HAND-WHEEL
4	ADJUSTABLE PIPE SUPPORT
5	DUCTILE IRON SPOOL PIECE (FL X FL)
6	4 INCH MINIMUM DIAMETER (OR EQUAL TO DEVICE DIAMETER IF GREATER THAN 4 INCH) C-900 CL200 PVC PIPE PER W-111 AND W-112. HOT-TAP OR TEE PER W-106, W-107, OR W-108
7	FL X FL OR FL X MJ RESTRAINED CONNECTION
8	THRUST RESTRAINT PER W-110
9	CONCRETE PAD, PIPE O.D. ± 2FT X LENGTH OF ASSEMBLY + 1 FT (REINFORCED WITH W.W.F. 1.6 X 1.6)

GENERAL NOTES:

- A. ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED BY A CERTIFIED TESTER AFTER INSTALLATION, RELOCATION OR REPAIR AND RESULTS SUBMITTED TO CVWD.
- B. BACKFLOW MUST HAVE MINIMUM 2 FEET CLEARANCE ON ALL SIDES TO FACILITATE TESTING AND SERVICING.
- C. BACKFLOW ASSEMBLY SHALL BE A MINIMUM OF 36" FROM ANY STRUCTURE, CURB OR SIDEWALK.
- D. PRESSURE TEST AND CHLORINATE TO LIMITS SHOWN ABOVE.
- E. CVWD TO SUPPLY BYPASS METER.

CARPINTERIA VALLEY WATER DISTRICT			REDUCED PRESSURE DETECTOR ASSEMBLY (2.5" OR LARGER)	STANDARD DETAIL NO.
				W-122
REV.	DATE	BY	DRAWN BY: SS	SHT 1 OF 1
			SCALE: NONE DATE: 1/12/2022	
			APPROVED BY: _____ DISTRICT ENGINEER	