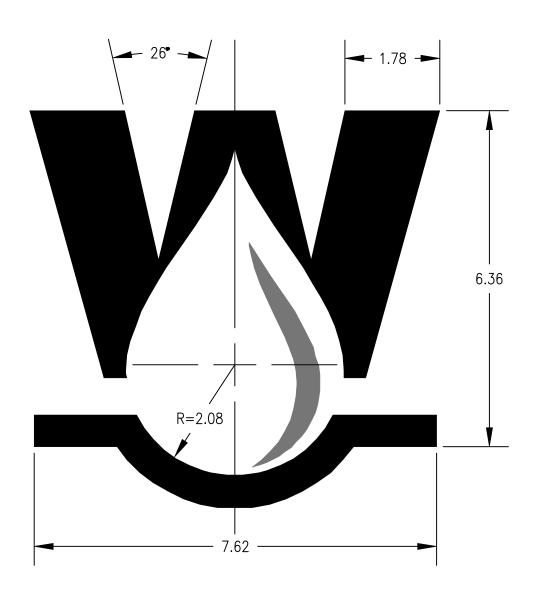
# Fairfax Water

# STANDARD DETAILS



**SEPTEMBER 2023** 

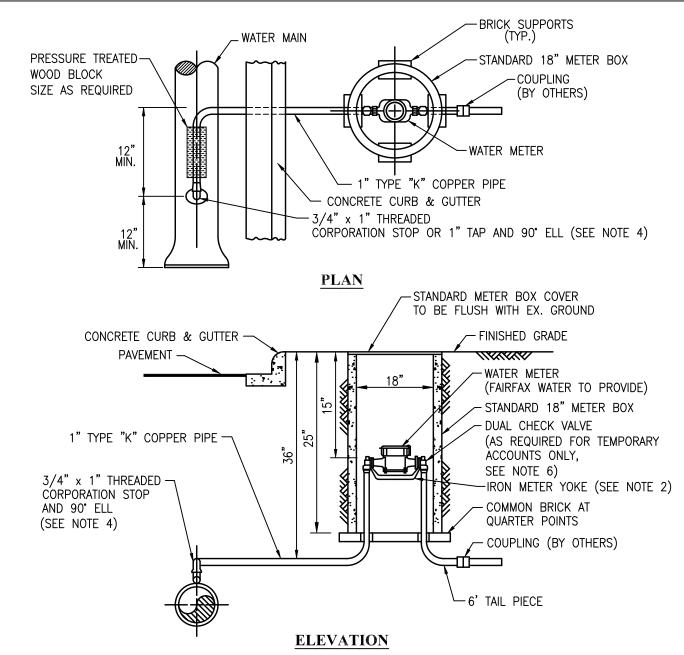
# FAIRFAX WATER - STANDARD DETAILS

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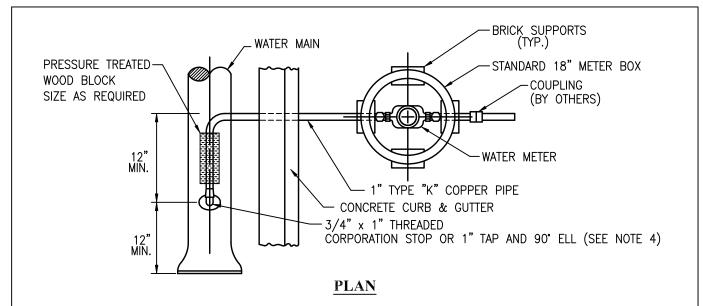
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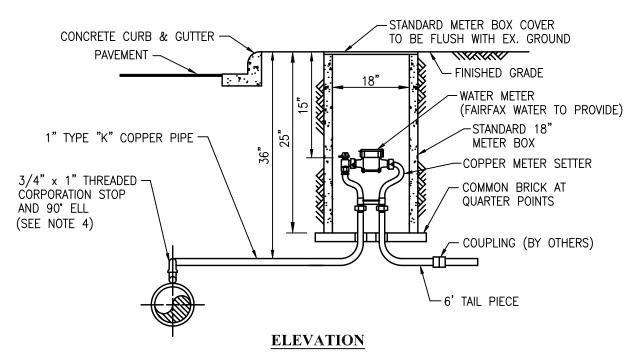
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- 1. NO PLASTIC TUBING TO BE USED INSIDE METER BOX.
- 2. METER BOX, METER BOX COVER, AND METER YOKE TO BE FAIRFAX WATER STANDARD TYPE.
- 3. THREADED SERVICE CLAMP TO BE USED ON 3" AND 20" & LARGER WATER MAINS.
- 4. COAT WITH PETROLATUM TAPE PER SECTION 13110 CATHODIC PROTECTION.
- 5. NO STRUCTURES, POLES, SIGN POSTS, TREES OR SHRUBS TO BE INSTALLED WITHIN FOUR FEET OF METER CROCK.
- 6. DUAL CHECK VALVE BACKFLOW PREVENTER SHALL BE INSTALLED ON OUTLET SIDE OF THE WATER METER IN A LOCATION THAT IS ACCESSIBLE, WITH CAP EXPOSED TO FACILITATE REMOVAL, SERVICING, OR TESTING. PIPE MUST BE THOROUGHLY FLUSHED TO REMOVE FOREIGN MATERIALS BEFORE INSTALLING THE CHECK VALVE.

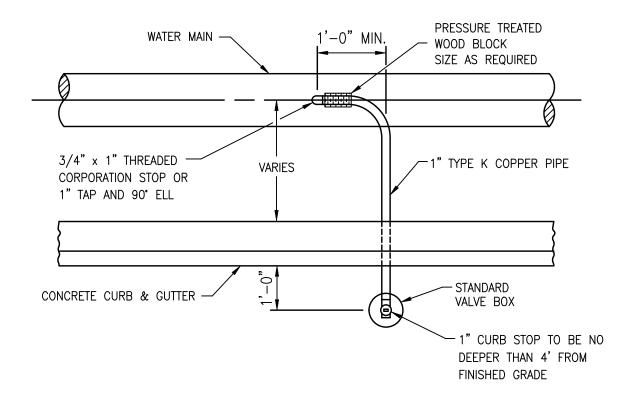
W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	1" SERVICE CONNECTION	DETAIL NO.:
DATE: 9/23	WITH 5/8" OR 3/4" METER	1A





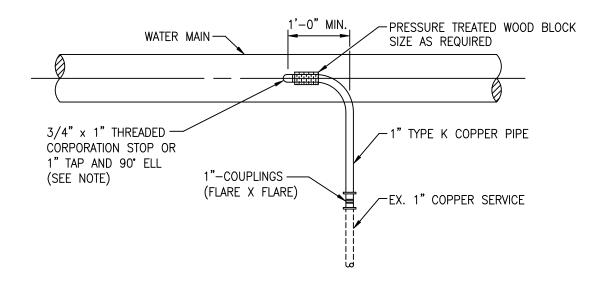
- 1. NO PLASTIC TUBING TO BE USED INSIDE METER BOX.
- 2. METER BOX, METER BOX COVER AND COPPER METER SETTER TO BE FAIRFAX WATER STANDARD TYPE.
- 3. THREADED SERVICE CLAMP TO BE USED ON 3" AND 20" & LARGER WATER MAINS.
- 4. COAT WITH PETROLATUM TAPE PER SECTION 13110 CATHODIC PROTECTION.
- 5. NO STRUCTURES, POLES, SIGN POSTS, TREES OR SHRUBS TO BE INSTALLED WITHIN FOUR FEET OF METER CROCK.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	1" SERVICE CONNECTION	DETAIL NO.:
DATE: 9/23	WITH 1" METER	1B
DATE: 9/23		



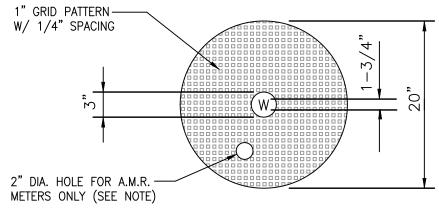
NOTE: WHERE CURB BOX IS LOCATED IN PAVEMENT, USE VALVE BOX INSTEAD OF CURB BOX.

M	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	1" SERVICE CONNECTION	DETAIL NO.:
DATE: 9/23	WITH CURB STOP	<i>ا</i>

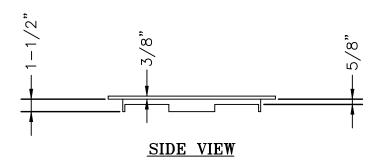


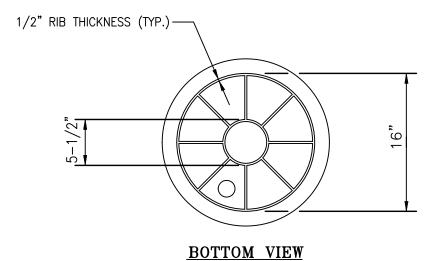
NOTE:
COAT WITH PETROLATUM TAPE PER SECTION 13110 CATHODIC PROTECTION

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	1" SERVICE RECONNECTION	DETAIL NO.:
DATE: 9/23		ა



# TOP VIEW

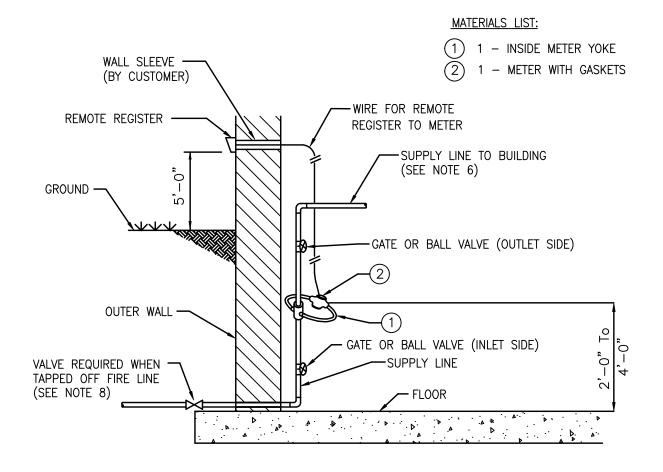




# NOTE:

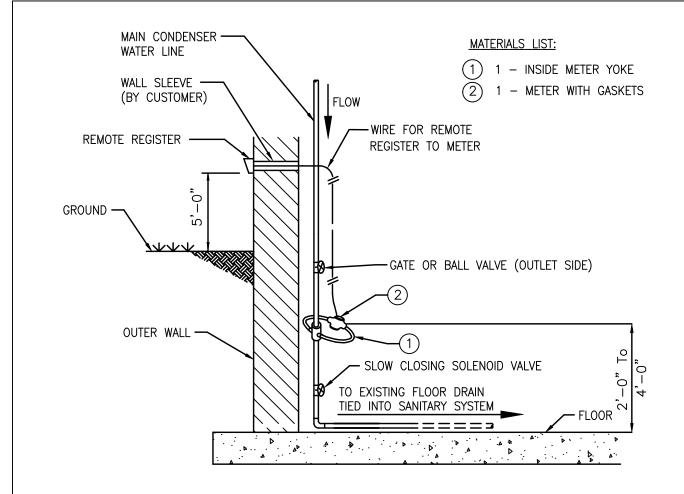
INSTALL 2" DIAMETER HOLE BETWEEN RIBS FOR AUTOMATIC METER READING METERS WHERE INDICATED ON THE PLANS OR BY FAIRFAX WATER.

<b>M</b>	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	CAST IRON METER BOX COVER	DETAIL NO.:
DATE: 9/23		4



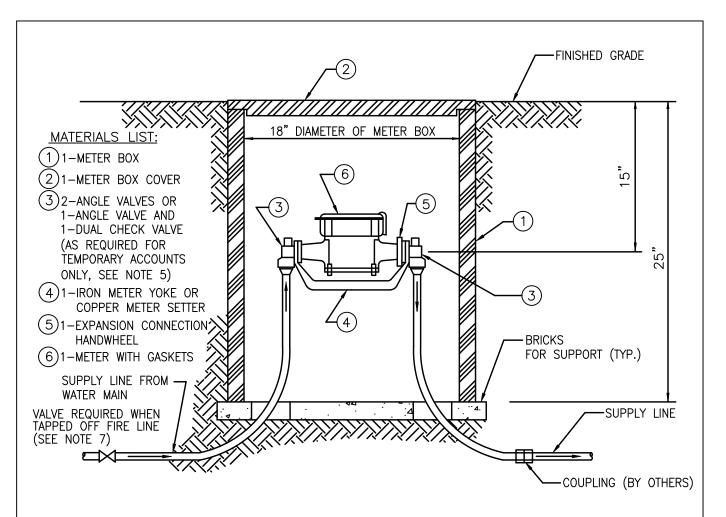
- 1. THE WATER METER SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. CRAWL SPACES ARE NOT ACCEPTABLE.
- 2. THE WATER METER MUST BE INSTALLED BETWEEN 2'-0" AND 4'-0" ABOVE THE FLOOR.
- 3. THE CUSTOMER MUST CALL 703-289-6402, FOR WIRING AND INSPECTION OF THE METER PRIOR TO FINISHING INTERIOR WALLS OF THE BUILDING.
- 4. GATE OR BALL VALVES SHALL BE INSTALLED APPROXIMATELY 12 INCHES ON EITHER SIDE OF THE METER SETTING.
- 5. IT IS THE CUSTOMER'S RESPONSIBILITY TO PREVENT THE METER FROM FREEZING.
- 6. BACKFLOW PREVENTION WILL BE REQUIRED IN ACCORDANCE WITH FAIRFAX COUNTY'S REGULATIONS.
- 7. FAIRFAX WATER MAINTAINS THE METER AND REMOTE REGISTER ONLY.
- 8. A 4" MINIMUM GATE VALVE WITH A 2" OPERATING NUT MUST BE INSTALLED ON THE SERVICE LINE WHEN TAPPED OFF THE FIRE LINE.
- 9. NO TAPS, PRV'S, STRAINERS, OR BACKFLOW PREVENTION DEVICES ARE TO BE INSTALLED BEFORE THE METER.
- 10. FAIRFAX WATER TO SUPPLY ITEMS SHOWN IN MATERIALS LIST. ALL OTHER MATERIALS TO BE SUPPLIED BY THE CUSTOMER.
- 11. FAIRFAX WATER TO SUPPLY AND INSTALL REMOTE REGISTER. WIRE FOR REMOTE REGISTER TO BE FURNISHED BY FAIRFAX WATER AND INSTALLED BY CUSTOMER IF REQUIRED.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	INTERIOR MAIN METER INSTALLATION	DETAIL NO.:
DATE: 9/23	5/8" THROUGH 1" METER SIZES	5A



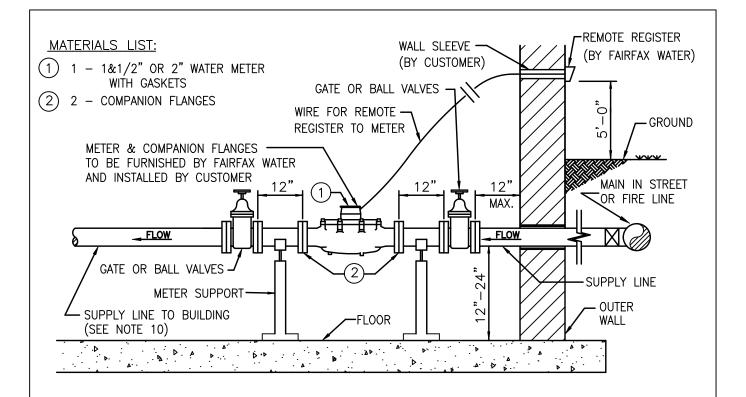
- 1. THE WATER METER SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION.
- 2. THE WATER METER MUST BE INSTALLED BETWEEN 2'-0" AND 4'-0" ABOVE THE FLOOR.
- 3. THE CUSTOMER MUST CALL 703-289-6402, FOR WIRING AND INSPECTION OF THE METER PRIOR TO FINISHING INTERIOR WALLS.
- 4. GATE OR BALL VALVES SHALL BE INSTALLED APPROXIMATELY 12 INCHES UPSTREAM OF THE METER SETTING, AND A SLOW CLOSING SOLENOID VALVE SHALL BE APPROXIMATELY 12 INCHES DOWNSTREAM OF THE METER SETTING.
- 5. PIPE MUST REMAIN FULL AT ALL TIMES.
- 6. FAIRFAX WATER MAINTAINS THE METER AND REMOTE REGISTER ONLY.
- 7. FAIRFAX WATER TO SUPPLY ITEMS SHOWN IN MATERIAL LIST. ALL OTHER MATERIALS TO BE SUPPLIED BY THE CUSTOMER.
- 8. 5/8" UP TO 1" ULTRASONIC METER TO BE UTILIZED FOR THIS APPLICATION.
- 9. FAIRFAX WATER TO SUPPLY AND INSTALL REMOTE REGISTER. WIRE FOR REMOTE REGISTER TO BE FURNISHED BY FAIRFAX WATER AND INSTALLED BY CUSTOMER IF REQUIRED.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
<u>'</u>	COOLING TOWER BLOW DOWN LINE	DETAIL NO.:
DATE: 9/23	TO SANITARY SYSTEM	5B



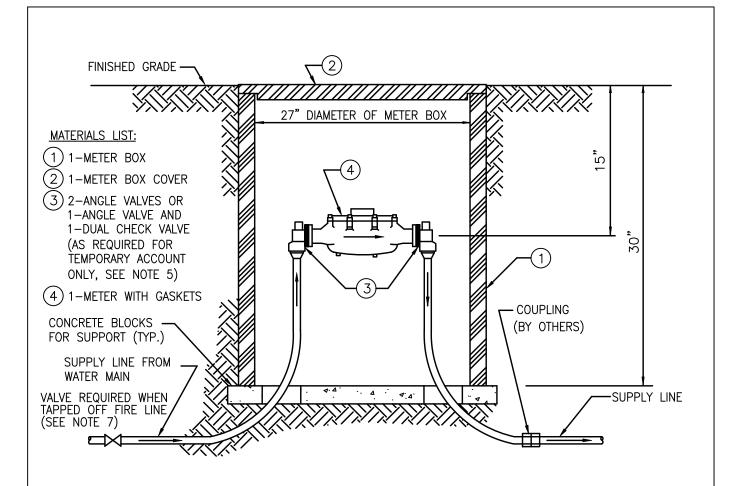
- 1. THE WATER METER BOX SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION IN A GREEN SPACE AND SO AS NOT TO BE A TRIP HAZARD.
- 2. WATER METER TO BE INSTALLED BY FAIRFAX WATER AS SHOWN IN THE DIAGRAM ABOVE. METER TO BE INSTALLED BY CUSTOMER WHEN TAPPED OFF FIRE LINE.
- 3. THE METER INSTALLATION WILL BE INSPECTED AND APPROVED BY FAIRFAX WATER. CALL 703-289-6402 FOR INSPECTION PRIOR TO PLACING LINE IN SERVICE.
- 4. FAIRFAX WATER TO SUPPLY ITEMS SHOWN IN MATERIALS LIST. ALL OTHER MATERIALS TO BE SUPPLIED BY THE CUSTOMER.
- 5. DUAL CHECK VALVE BACKFLOW PREVENTER SHALL BE INSTALLED ON OUTLET SIDE OF THE WATER METER IN A LOCATION THAT IS ACCESSIBLE, WITH CAP EXPOSED TO FACILITATE REMOVAL, SERVICING, OR TESTING. PIPE MUST BE THOROUGHLY FLUSHED TO REMOVE FOREIGN MATERIALS BEFORE INSTALLING THE CHECK VALVE.
- 6. FAIRFAX WATER MAINTAINS THE SUPPLY LINE BETWEEN THE METER AND THE MAIN, METER, METER BOX, AND METER BOX COVER ONLY. FAIRFAX WATER WILL NOT MAINTAIN SUPPLY LINE WHEN TAPPED OFF FIRE LINE.
- 7. A 4" MINIMUM GATE VALVE WITH A 2" OPERATING NUT MUST BE INSTALLED ON THE SERVICE LINE WHEN TAPPED OFF THE FIRE LINE.
- 8. NO STRUCTURES, POLES, SIGN POSTS, TREES OR SHRUBS TO BE INSTALLED WITHIN FOUR FEET OF METER CROCK.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
<u> </u>	EXTERIOR METER INSTALLATION	DETAIL NO.:
DATE: 9/23	5/8" THROUGH 1" METER SIZES	б



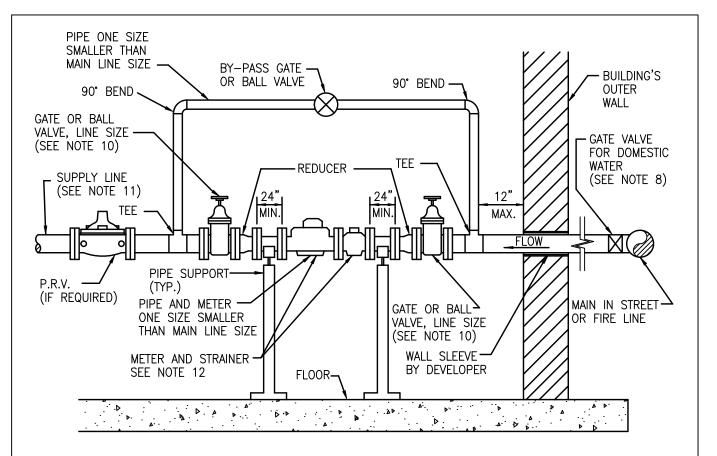
- 1. THE WATER METER SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. CRAWL SPACES ARE NOT ACCEPTABLE.
- THE METER MUST BE INSTALLED NOT MORE THAN 2' ABOVE THE FLOOR, OR CLOSER THAN 1' TO ANY WALL OR OTHER FIXED OBJECT.
- 3. PROVISIONS FOR DISCHARGE OF A LARGE VOLUME OF WATER RESULTING FROM METER TESTING AND REPAIRS SHALL BE MADE AS REQUIRED BY FAIRFAX WATER.
- 4. THE METER INSTALLATION WILL BE INSPECTED AND APPROVED BY FAIRFAX WATER. CALL 703-289-6402 FOR INSPECTION PRIOR TO PLACING LINE IN SERVICE.
- 5. IT IS THE CUSTOMER'S RESPONSIBILITY TO PREVENT THE METER FROM FREEZING.
- 6. SUPPORT IS REQUIRED FOR THE METER.
- 7. GATE OR BALL VALVES SHALL BE INSTALLED APPROXIMATELY 12 INCHES ON EITHER SIDE OF THE METER SETTING.
- 8. INCOMING LINE SIZE MUST BE THE SAME AS METER SIZE AT LEAST 3' BEFORE THE METER.
- 9. FAIRFAX WATER MAINTAINS THE METER AND REMOTE REGISTER ONLY.
- 10. BACKFLOW PREVENTION WILL BE REQUIRED IN ACCORDANCE WITH FAIRFAX COUNTY'S REGULATIONS.
- 11. A 4" MINIMUM GATE VALVE WITH A 2" OPERATING NUT MUST BE INSTALLED ON THE SERVICE LINE WHEN TAPPED OFF THE FIRE LINE.
- 12. NO TAPS, PRV'S, STRAINERS, OR BACKFLOW PREVENTION DEVICES ARE TO BE INSTALLED BEFORE THE METER.
- 13. FAIRFAX WATER TO SUPPLY ITEMS SHOWN IN MATERIALS LIST. ALL OTHER MATERIALS TO BE SUPPLIED BY THE CUSTOMER.
- 14. FAIRFAX WATER TO SUPPLY AND INSTALL REMOTE REGISTER. WIRE FOR REMOTE REGISTER TO BE FURNISHED BY FAIRFAX WATER AND INSTALLED BY CUSTOMER IF REQUIRED.

	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	INTERIOR METER INSTALLATION 1 1/2" AND 2" METER SIZES	DETAIL NO.:
DATE: 9/23	1 1/2 AND 2 METER SIZES	(



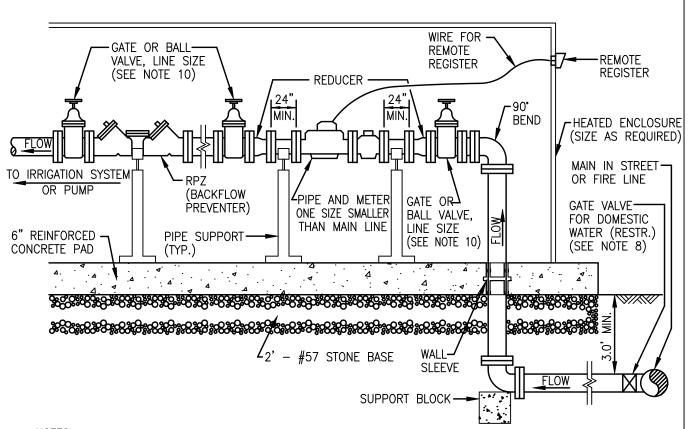
- 1. THE WATER METER BOX SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION IN GREEN SPACE AND SO AS NOT TO BE A TRIP HAZARD.
- 2. WATER METER TO BE INSTALLED BY FAIRFAX WATER AS SHOWN IN THE DIAGRAM ABOVE. METER TO BE INSTALLED BY CUSTOMER WHEN TAPPED OFF FIRE LINE.
- 3. THE METER INSTALLATION WILL BE INSPECTED AND APPROVED BY FAIRFAX WATER. CALL 703-289-6402 FOR INSPECTION PRIOR TO PLACING LINE IN SERVICE.
- 4. FAIRFAX WATER TO SUPPLY ITEMS SHOWN IN MATERIALS LIST ONLY. ALL OTHER MATERIALS TO BE SUPPLIED BY THE CUSTOMER.
- 5. DUAL CHECK VALVE BACKFLOW PREVENTER SHALL BE INSTALLED ON OUTLET SIDE OF THE WATER METER IN A LOCATION THAT IS ACCESSIBLE, WITH CAP EXPOSED TO FACILITATE REMOVAL, SERVICING, OR TESTING. PIPE MUST BE THOROUGHLY FLUSHED TO REMOVE FOREIGN MATERIALS BEFORE INSTALLING THE CHECK VALVE.
- 6. FAIRFAX WATER MAINTAINS THE SUPPLY LINE BETWEEN THE METER AND THE MAIN, THE METER, METER BOX, AND THE METER BOX COVER ONLY. FAIRFAX WATER WILL NOT MAINTAIN SUPPLY LINE WHEN TAPPED OFF FIRE LINE.
- 7. A 4" MINIMUM GATE VALVE WITH A 2" OPERATING NUT MUST BE INSTALLED ON THE SERVICE LINE WHEN TAPPED OFF FIRE LINE.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	EXTERIOR METER INSTALLATION 1 1/2" AND 2" METER SIZES	DETAIL NO.:
DATE: 9/23	1 1/2 AND 2 METER SIZES	O



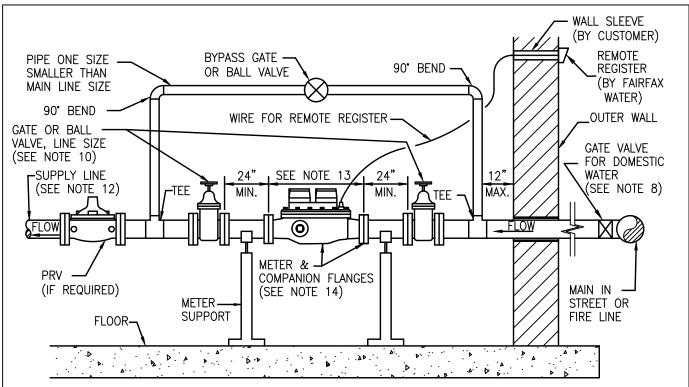
- 1. THE WATER METER WILL BE LOCATED IN AN ACCESSIBLE LOCATION AND WILL NOT BE INSTALLED UNDER EXISTING PIPING OR CLOSE TO OTHER FACILITIES. CRAWL SPACES ARE UNACCEPTABLE.
- 2. WATER METER TO BE INSTALLED NOT MORE THAN 2.0' ABOVE THE FLOOR, OR CLOSER THAN 1.0' TO ANY WALL OR OTHER FIXED OBJECT.
- 3. PROVISIONS FOR DISCHARGE OF A LARGE VOLUME OF EXCESS WATER RESULTING FROM METER TESTING AND METER REPAIRS SHALL BE MADE AS REQUIRED BY FAIRFAX WATER.
- 4. THE METER INSTALLATION WILL BE INSPECTED AND APPROVED BY FAIRFAX WATER. CALL 703-289-6402 FOR INSPECTION PRIOR TO PLACING LINE IN SERVICE. (REMOTE REGISTER TO BE INSTALLED OUTSIDE BUILDING IF REQUIRED).
- 5. IT IS THE CUSTOMER'S RESPONSIBILITY TO PREVENT THE METER FROM FREEZING.
- 6. SUPPORT IS REQUIRED FOR THE METER.
- 7. INCOMING LINE SIZE MUST BE THE SAME AS METER SIZE AT LEAST 3' BEFORE THE METER.
- 8. IF THE SERVICE CONNECTION IS 3" OR LARGER, A 4" MINIMUM GATE VALVE WITH 2" OPERATING NUT MUST BE INSTALLED AT THE MAIN IN THE STREET OR FIRE LINE.
- 9. NO TAPS, PRV'S, STRAINERS, OR BACKFLOW PREVENTORS ARE TO BE INSTALLED BEFORE METER.
- 10. GATE VALVES OR BALL VALVES MUST BE INSTALLED ON BOTH SIDES OF THE METER AND ON THE BYPASS. BUTTERFLY VALVES ARE NOT ACCEPTABLE.
- 11. BACKFLOW PREVENTION WILL BE REQUIRED IN ACCORDANCE WITH FAIRFAX COUNTY'S REGULATIONS.
- 12. TURBINE METER, STRAINER AND COMPANION FLANGE TO BE FURNISHED BY FAIRFAX WATER AND INSTALLED BY CUSTOMER.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
<u></u>	INTERIOR METER INSTALLATION WITH	DETAIL NO.:
DATE: 9/23	BYPASS SYSTEM 2" AND LARGER TURBINE METERS	9



- 1. THE WATER METER WILL BE LOCATED IN AN ACCESSIBLE LOCATION AND WILL NOT BE INSTALLED UNDER EXISTING PIPING OR CLOSE TO OTHER FACILITIES. CRAWL SPACES ARE UNACCEPTABLE.
- 2. WATER METER TO BE INSTALLED NOT MORE THAN 2.0' ABOVE THE BASE SLAB, OR CLOSER THAN 1.0' TO ANY WALL OR FIXED OBJECT.
- 3. PROVISIONS FOR DISCHARGE OF A LARGE VOLUME OF EXCESS WATER RESULTING FROM METER TESTING, RPZ OPERATION AND METER REPAIRS SHALL BE MADE AS REQUIRED BY FAIRFAX WATER.
- 4. THE METER INSTALLATION WILL BE INSPECTED AND APPROVED BY FAIRFAX WATER. CALL 703-289-6402 FOR INSPECTION PRIOR TO PLACING LINE IN SERVICE. (REMOTE REGISTER TO BE INSTALLED OUTSIDE BUILDING IF REQUIRED).
- IT IS THE CUSTOMER'S RESPONSIBILITY TO PREVENT THE METER FROM FREEZING.
- 6. SUPPORT IS REQUIRED FOR THE METER AND RPZ.
- 7. INCOMING LINE SIZE MUST BE THE SAME AS METER SIZE AT LEAST 3' BEFORE THE METER.
- 8. THE SERVICE CONNECTION SHALL BE MADE OF DUCTILE IRON PIPE. IF THE SERVICE CONNECTION IS 3" OR LARGER, A 4" MINIMUM RESTRAINED GATE VALVE WITH 2" OPERATING NUT MUST BE INSTALLED AT THE SUPPLY MAIN.
- 9. NO TAPS, PRV'S, STRAINERS, OR BACKFLOW PREVENTOR ARE TO BE INSTALLED BEFORE METER.
- 10. GATE VALVES OR BALL VALVES MUST BE INSTALLED ON BOTH SIDES OF THE METER AND ON THE BYPASS. BUTTERFLY VALVES ARE NOT ACCEPTABLE.
- 11. ENCLOSURE SHALL PROVIDE UNRESTRICTED ACCESS TO METER, RPZ, AND INTERIOR PIPING.
- 12. TURBINE METER, STRAINER AND COMPANION FLANGE TO BE FURNISHED BY FAIRFAX WATER AND INSTALLED BY CUSTOMER.

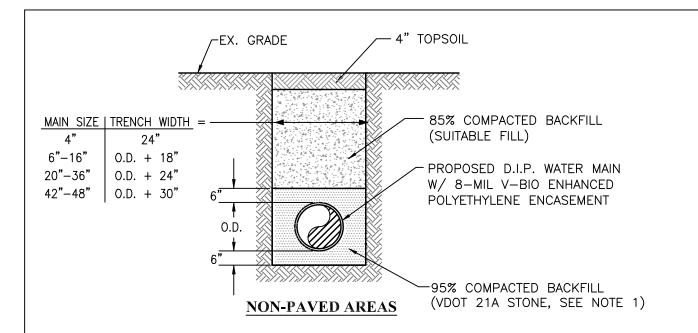
W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	INTERIOR METER INSTALLATION FOR	DETAIL NO.:
DATE: 9/23	IRRIGATION SYSTEM 2" AND LARGER TURBINE METERS	10

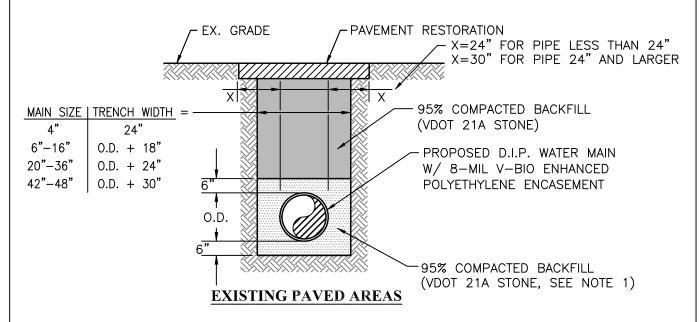


#### TYPICAL INSTALLATION SECTION VIEW

- 1. THE WATER METER WILL BE LOCATED IN AN ACCESSIBLE LOCATION AND WILL NOT BE INSTALLED UNDER EXISTING PIPING OR CLOSE TO OTHER FACILITIES. CRAWL SPACES ARE UNACCEPTABLE.
- 2. WATER METER TO BE INSTALLED NOT MORE THAN 2.0' ABOVE THE FLOOR, OR CLOSER THAN 1.0' TO ANY WALL OR OTHER FIXED OBJECT.
- 3. PROVISIONS FOR DISCHARGE OF A LARGE VOLUME OF EXCESS WATER RESULTING FROM METER TESTING AND METER REPAIRS SHALL BE MADE AS REQUIRED BY FAIRFAX WATER.
- 4. THE METER INSTALLATION WILL BE INSPECTED AND APPROVED BY FAIRFAX WATER. CALL 703-289-6402 FOR INSPECTION PRIOR TO PLACING LINE IN SERVICE. (REMOTE REGISTER TO BE INSTALLED OUTSIDE BUILDING IF REQUIRED).
- 5. IT IS THE CUSTOMER'S RESPONSIBILITY TO PREVENT THE METER FROM FREEZING.
- 6. SUPPORT IS REQUIRED FOR THE METER.
- 7. INCOMING LINE SIZE MUST BE THE SAME AS METER SIZE AT LEAST 3' BEFORE THE METER.
- 8. A 4" MINIMUM GATE VALVE WITH A 2" OPERATING NUT MUST BE INSTALLED AT THE MAIN IN THE STREET OR FIRE LINE.
- 9. NO TAPS, PRV'S, STRAINERS, OR BACKFLOW PREVENTOR ARE TO BE INSTALLED BEFORE METER.
- 10. GATE VALVES OR BALL VALVES MUST BE INSTALLED ON BOTH SIDES OF THE METER, AND ON THE BYPASS. BUTTERFLY VALVES ARE NOT ACCEPTABLE.
- 11. FAIRFAX WATER TO SUPPLY AND INSTALL REMOTE REGISTER. WIRE FOR REMOTE REGISTER TO BE FURNISHED BY FAIRFAX WATER AND INSTALLED BY CUSTOMER IF REQUIRED.
- 12. BACKFLOW PREVENTIONS WILL BE REQUIRED IN ACCORDANCE WITH FAIRFAX COUNTY'S REGULATIONS.
- 13. 3" METER IS 24" LONG, 4" METER IS 29" LONG, AND 6" METER IS 36" LONG.
- 14. METER AND COMPANION FLANGES TO BE FURNISHED BY FAIRFAX WATER AND INSTALLED BY CUSTOMER.

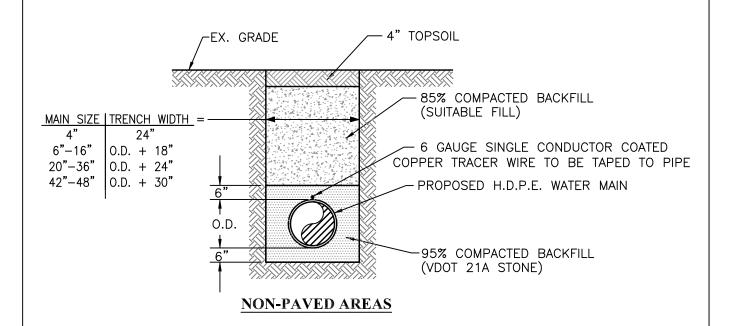
	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	INTERIOR METER INSTALLATION WITH BYPASS 3" AND LARGER METERS	DETAIL NO.:
DATE: 9/23	BIPASS 3 AND LARGER METERS	11

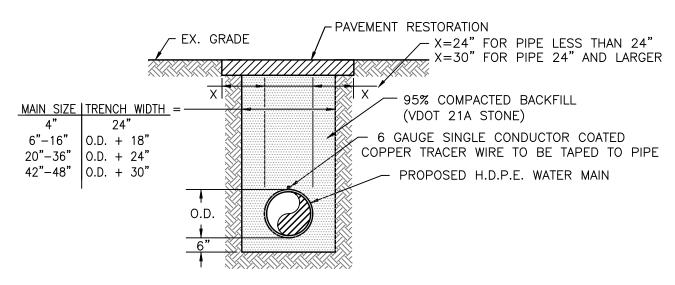




- 1. VDOT NO. 57 STONE SHALL BE USED AT CREEK CROSSINGS OR IN AREAS WHERE TRENCH CONTAINS GROUND WATER.
- 2. ALL PAVEMENT RESTORATION AND COMPACTED BACKFILL WITHIN VDOT RIGHT-OF-WAY SHALL ADHERE TO ALL APPLICABLE VDOT SPECIFICATIONS.
- 3. RESTRAINED JOINT PIPE SHALL BE IDENTIFIED WITH MARKING TAPE PLACED 2 FEET ABOVE PIPE.
- 4. ALL WATER MAIN INSTALLATION IN AREAS WITH PROPOSED PAVING SHALL ADHERE TO APPROVED DEVELOPMENT PLAN.

V	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TRENCH – DUCTILE IRON PIPE	DETAIL NO.:
DATE: 9/23		12

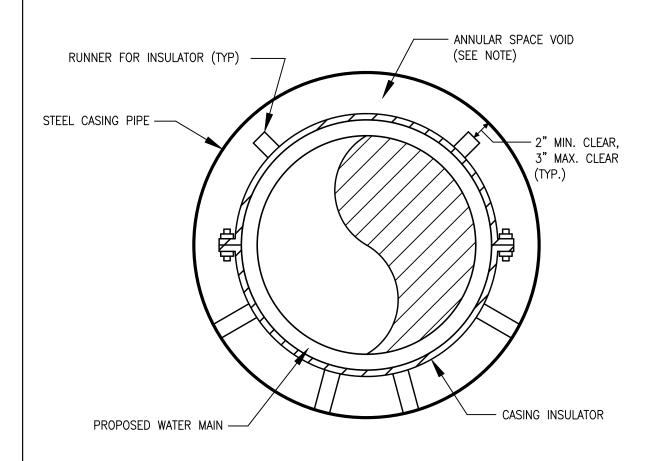




# **EXISTING PAVED AREAS**

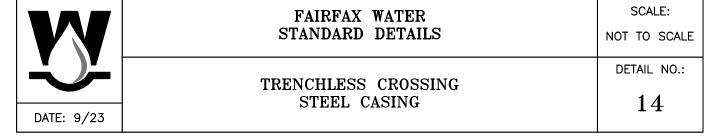
- 1. VDOT NO. 57 STONE SHALL BE USED AT CREEK CROSSINGS OR IN AREAS WHERE TRENCH CONTAINS GROUND WATER.
- 2. ALL PAVEMENT RESTORATION AND COMPACTED BACKFILL WITHIN VDOT RIGHT-OF-WAY SHALL ADHERE TO ALL APPLICABLE VDOT SPECIFICATIONS.
- 3. ALL WATER MAIN INSTALLATION IN AREAS WITH PROPOSED PAVING SHALL ADHERE TO APPROVED DEVELOPMENT PLAN.

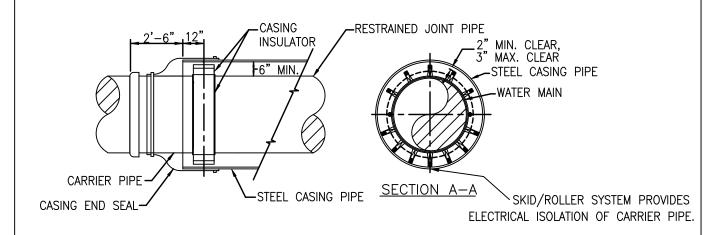
V	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TRENCH - HIGH DENSITY POLYETHYLENE PIPE	DETAIL NO.:
DATE: 9/23		13



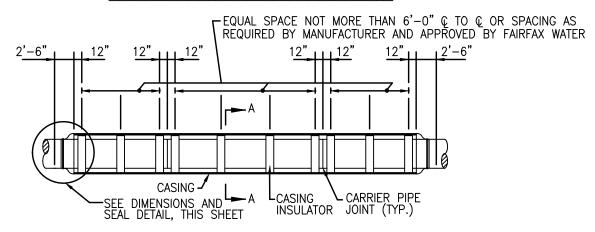
CASING PIPE SIZES			
WATER MAIN PIPE SIZE (INCHES)	CASING PIPE SIZE (INCHES)	CASING THICKNESS (INCHES)	
6	16	0.500	
8	20	0.500	
12	24	0.500	
16	30	0.500	
20	36	0.500	
24	42	0.500	
30	48	0.500	
36	54	0.500	

ANNULAR SPACE MAY BE FILLED AT THE DISCRETION OF FAIRFAX WATER.





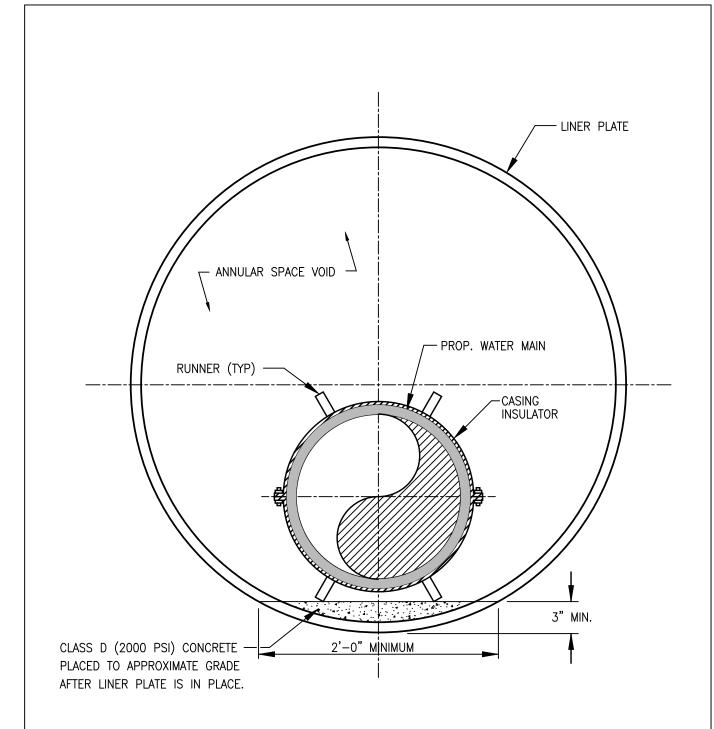
# END DIMENSIONS AND SEAL DETAIL



# **ELEVATION: CARRIER PIPE AND INSULATORS**

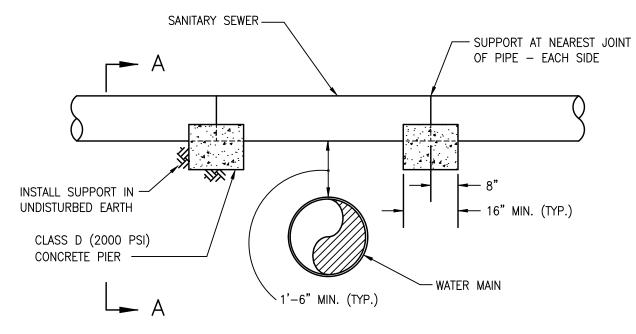
- 1. THE CONTRACTOR MAY INSTALL TUNNEL LINER PLATE IN LIEU OF THE STEEL CASING SHOWN, IN ACCORDANCE WITH SECTION 02400 OF FAIRFAX WATER'S SPECIFICATIONS, AT NO ADDITIONAL COST TO FAIRFAX WATER. IF THE CONTRACTOR CHOOSES TO INSTALL TUNNEL LINER PLATE, SHOP DRAWINGS AND A DETAIL OF THE TUNNEL LINER PLATE INSTALLATION SHALL BE SUBMITTED, WHICH INDICATE THE ABILITY OF THE THE TUNNEL PLATE LINER TO WITHSTAND THE APPLIED LOADS. SUBMITTAL SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF VIRGINIA.
- 2. RESTRAINED JOINT PIPE SHALL BE INSTALLED WITHIN CASING PIPE.
- 3. SEE PLAN FOR TEST STATION AND ANODE REQUIREMENTS.
- 4. CARRIER PIPE DOES NOT REQUIRE POLYETHYLENE ENCASEMENT WITHIN CASING PIPE.
- 5. ALL PIPE JOINTS 24-INCH AND LARGER WITHIN CASING PIPE SHALL BE BONDED.
- 6. CASING END SEALS SHALL BE MADE OF NEOPRENE, NITRILE, OR EPDM RUBBER AND SECURED TO THE CASING AND CARRIER PIPE WITH STAINLESS STEEL BRANDS.
- 7. CASING PIPE JOINTS SHALL BE BEVELED AND CONTINUOUSLY WELDED.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TRENCHLESS CROSSING CASING INSULATORS AND CASING END SEAL	DETAIL NO.:
DATE: 9/23	AND CASING END SEAL	19

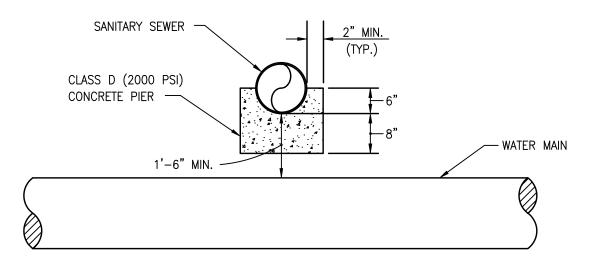


NOTE:
ANNULAR SPACE MAY BE FILLED AT THE DISCRETION OF FAIRFAX WATER.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TRENCHLESS CROSSING LINER PLATE	DETAIL NO.:
DATE: 9/23	LINER PLAIE	16



# **ELEVATION**



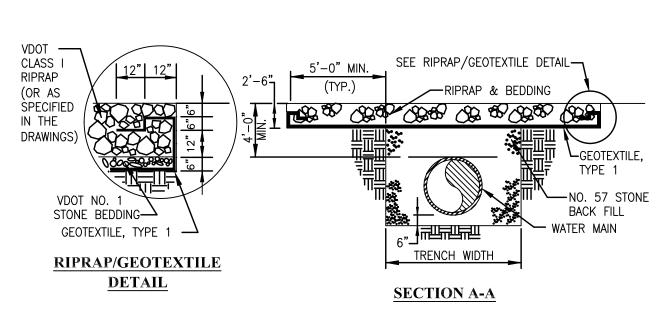
# **SECTION A-A**

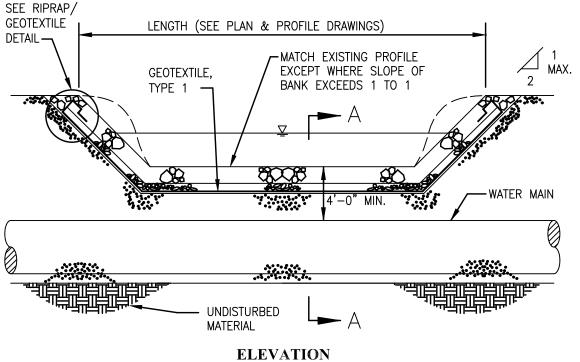
# **CONCRETE PIER DETAIL**

# NOTE:

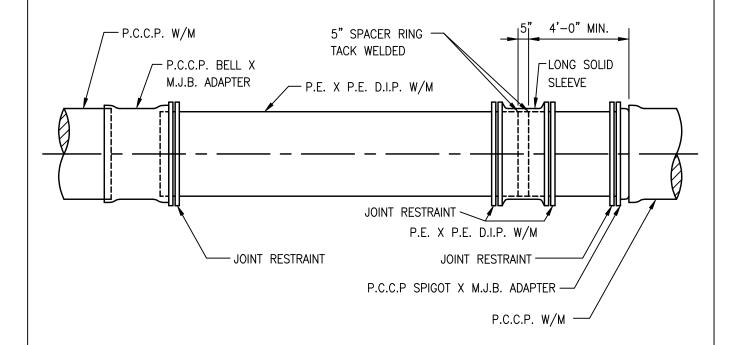
SANITARY AND WATER MAIN PIPE JOINTS SHALL BE LOCATED EQUIDISTANT FROM CROSSING SO AS TO CENTER THE PIPE SECTIONS OVER THE CROSSING. NO JOINT SHALL BE LOCATED CLOSER THAN 4 FEET TO THE CROSSING.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
<u></u>	SANITARY SEWER PROTECTION WATER MAIN CROSSING UNDER SEWER	DETAIL NO.:
DATE: 9/23	MAIN CRUSSING UNDER SEWER	17



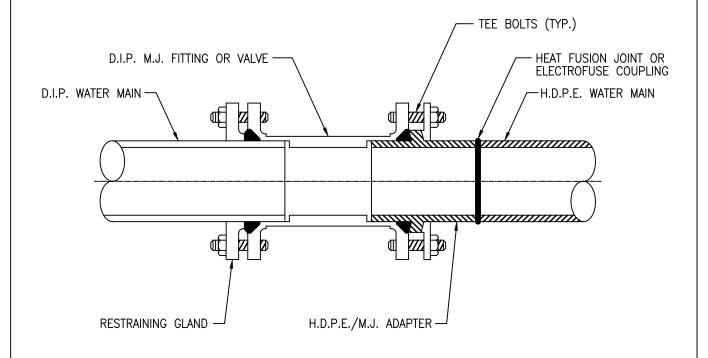


	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	STREAM CROSSING	DETAIL NO.:
	SCOUR PROTECTION	18
DATE: 9/23		

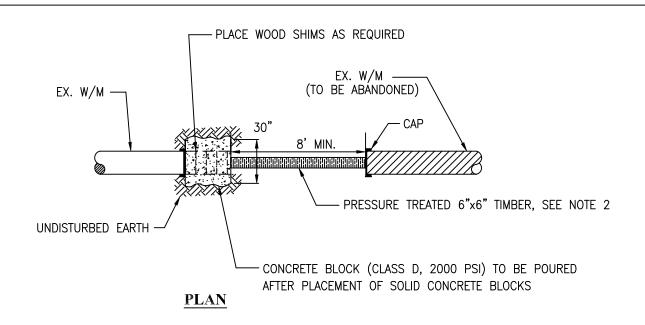


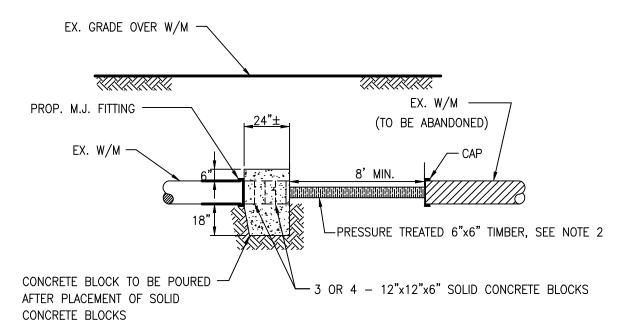
- 1. DETAILS SHOWN ARE FOR ALL PIPE DIAMETERS.
- 2. DUCTILE IRON PIPE TO BE INSTALLED WITH POLYETHYLENE ENCASEMENT.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	D.I.P. PIPE CLOSURE FOR PRESTRESSED CONCRETE CYLINDER PIPE	DETAIL NO.:
DATE: 9/23	CONCRETE CILINDER PIPE	19



W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
<u>'\'</u>	H.D.P.E./M.J. ADAPTER	DETAIL NO.:
DATE: 9/23	,	20



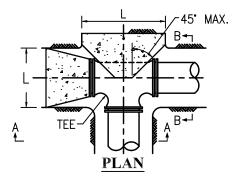


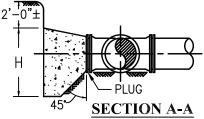
# **PROFILE**

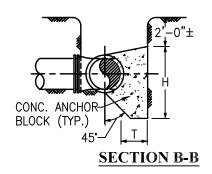
- 1. TO BE USED WHEN WATER MAIN IS REQUIRED FOR IMMEDIATE SERVICE.
- 2. FOR PIPE 12" AND LARGER, TWO 6"X6" PRESSURE TREATED TIMBERS SHALL BE USED (USE WEDGES AS NECESSARY).
- 3. SOLID CONCRETE BLOCKING WILL BE PERMITTED IN LIEU OF TIMBER.

	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	CUT AND CAP	DETAIL NO.:
DATE: 9/23		21

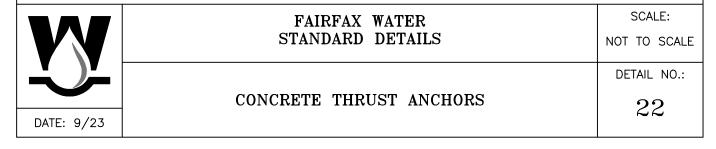
PIPE SIZE INCHES	DEGREE OF BEND (ø)	PR 1	(1) TEST ESSU 75 PS	RE SI
	90	3.0	2.0	1.25
6	45	2.0	1.5	1.0
	22.5	1.5	1.0	1.0
	90	4.0	2.5	1.75
8	45	2.5	2.0	1.0
	22.5	2.0	1.5	1.0
	90	5.5	4.0	2.25
12	45	4.0	3.0	1.5
	22.5	3.0	2.0	1.0
	90	7.5	5.0	3.25
16	45	5.0	4.5	2.0
	11.25/22.5	4.0	3.0	1.5
	90	9.5	6.0	4.0
20	45	7.0	4.5	2.75
	11.25/22.5	5.5	3.0	2.0
	90	13.0	6.5	5.5
24	45	9.0	5.0	3.5
	11.25/22.5	6.0	4.0	2.0

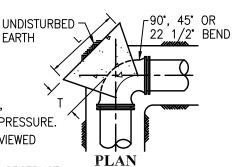


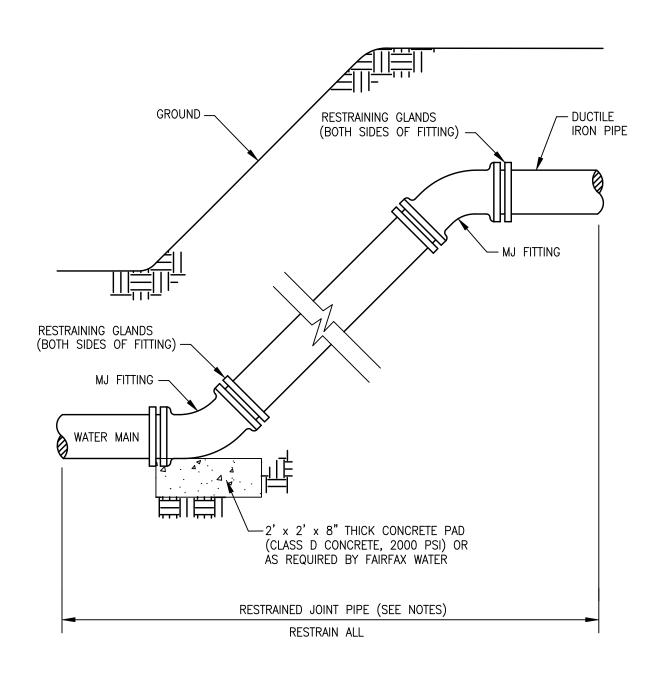




- 1. MINIMUM CONCRETE ANCHOR BLOCK DIMENSIONS IN FEET.
- 2. PROVIDE FORM WORK FOR ALL CONCRETE.
- 3. CONCRETE SHALL BE CLASS D 2000 PSI.
- 4. THE ABOVE TABLE IS BASED ON 2000 PSF SOIL BEARING CAPACITY, R=2PA SIN  $(\phi/2)$  AND FOR A TEST PRESSURE = 1.5 x WORKING PRESSURE.
- 5. ANCHOR BLOCK DESIGN FOR PIPE LARGER THAN 24" SHALL BE REVIEWED ON AN INDIVIDUAL BASIS BY FAIRFAX WATER.
- 6. WRAP FITTING WITH POLYETHYLENE SHEETING. CONCRETE MUST NOT OBSTRUCT ACCESS TO MECHANICAL JOINT ASSEMBLY.
- 7. CONCRETE ANCHOR BLOCK DIMENSIONS FOR TEES TO BE SAME AS FOR 90° BENDS, AND BASED ON THE SIZE OF THE BRANCH PIPING.
- 8. HEIGHT OF CONCRETE ANCHOR BLOCK ABOVE PIPE CENTERLINE IS 1/3 THE H DIMENSION.
- 9. BLOCKING SHALL BACK TO UNDISTURBED EARTH.

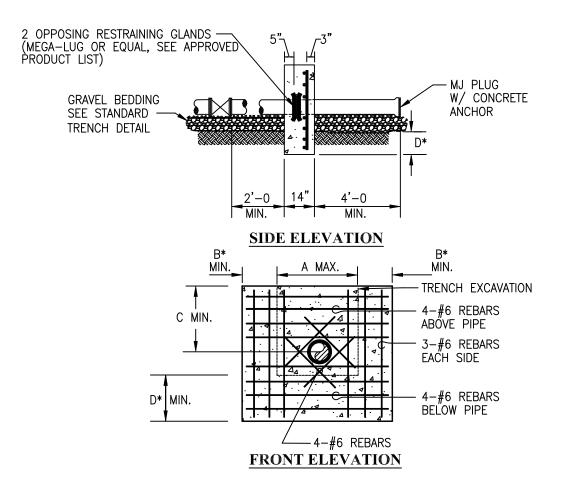






- 1. RESTRAIN MINIMUM 3 FULL JOINTS OF PIPE BEFORE AND AFTER FITTING FOR 8" DIAMETER WATER MAIN OR SMALLER, 4 FULL JOINTS OF PIPE FOR 12" DIAMETER WATER MAIN, OR AS REQUIRED BY FAIRFAX WATER. IF SUFFICIENT PIPE JOINT RESTRAIN CANNOT BE ACHIEVED, THRUST COLLAR SHALL BE USED.
- 2. OFFSET BENDS REQUIRE SIMILAR BLOCKING AND PIPE RESTRAINT.

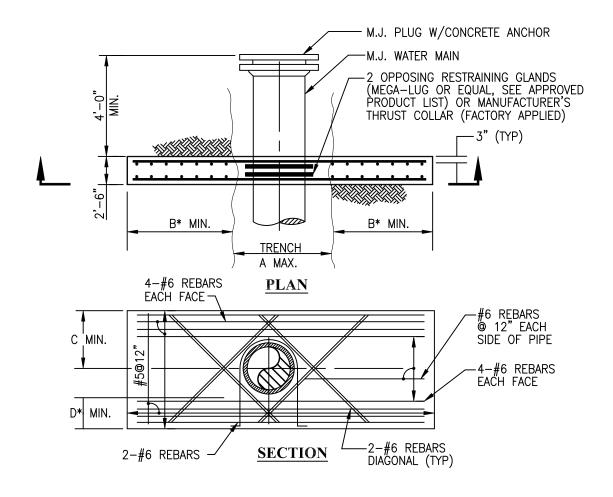
W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	CONCRETE VERTICAL BLOCKING WATER MAINS LESS THAN OR EQUAL TO 12"	DETAIL NO.:
DATE: 9/23	WAIER MAINS LESS THAN OR EQUAL TO 12	23



- 1. BEARING AREA IS BASED ON 200 PSI TEST PRESSURE AND A SOIL BEARING CAPACITY OF 2000 POUNDS PER SQUARE FOOT. INCREASE BLOCK DIMENSIONS AS REQUIRED FOR HIGHER TEST PRESSURES AND IN SOILS WITH LOWER BEARING VALUES.
- 2. \*DIMENSIONS "B" AND "D" ARE MINIMUM VALUES FOR BEARING IN UNDISTURBED EARTH.
- 3. CONCRETE STRENGTH SHALL BE CLASS B (4000 PSI).
- 4. MAINTAIN MINIMUM 1.5" CLEARANCE BETWEEN PIPE AND REBAR.

THE	THRUST COLLAR SCHEDULE					
LINE SIZE	LINE SIZE A B* C D*					
6"	2'-0"	1'-0"	1'-6"	1'-0"		
8"	2'-0"	1'-3"	1'-6"	1'-0"		
10"	2'-3"	1'-6"	1'-6"	1'-6"		
12"	2'-6"	2'-0"	1'-6"	1'-6"		

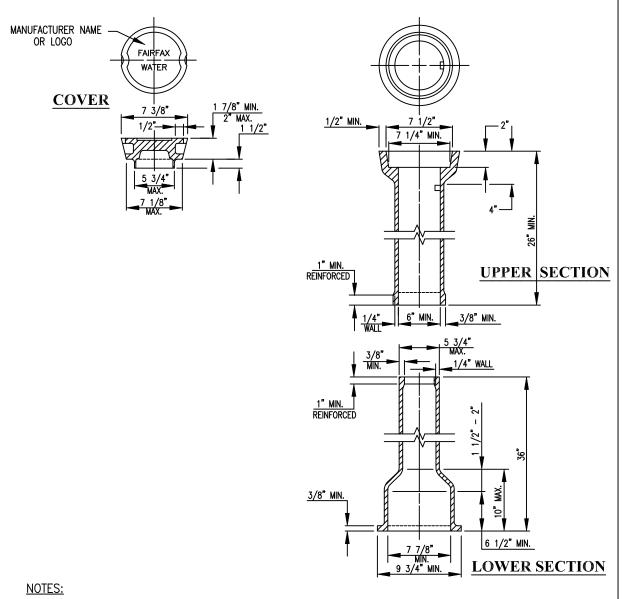
W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	THRUST COLLAR	DETAIL NO.:
DATE: 9/23	6" TO 12" WATER MAIN	24



- BEARING AREA IS BASED ON 200 PSI TEST PRESSURE AND A SOIL BEARING CAPACITY OF 2000 POUNDS PER SQUARE FOOT. INCREASE BLOCK DIMENSIONS AS REQUIRED FOR HIGHER TEST PRESSURES AND IN SOILS WITH LOWER BEARING VALUES.
- 2. \*DIMENSIONS "B" AND "D" ARE MINIMUM VALUES FOR BEARING IN UNDISTURBED EARTH.
- 3. CONCRETE STRENGTH SHALL BE CLASS B (4000 PSI).
- 4. MAINTAIN MINIMUM 1.5" CLEARANCE BETWEEN PIPE AND REBAR.

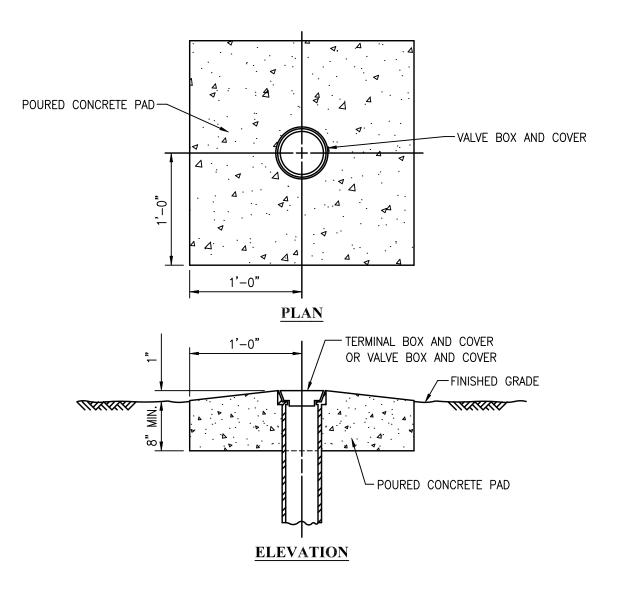
THRUST COLLAR SCHEDULE					
LINE SIZE	LINE SIZE A B* C D*				
16"	2'-9"	3'-0"	2'-0"	1'-6"	
24"	3'-6"	4'-0"	2'-6"	2'-0"	

	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	THRUST COLLAR	DETAIL NO.:
DATE: 9/23	16" TO 24" WATER MAIN	25



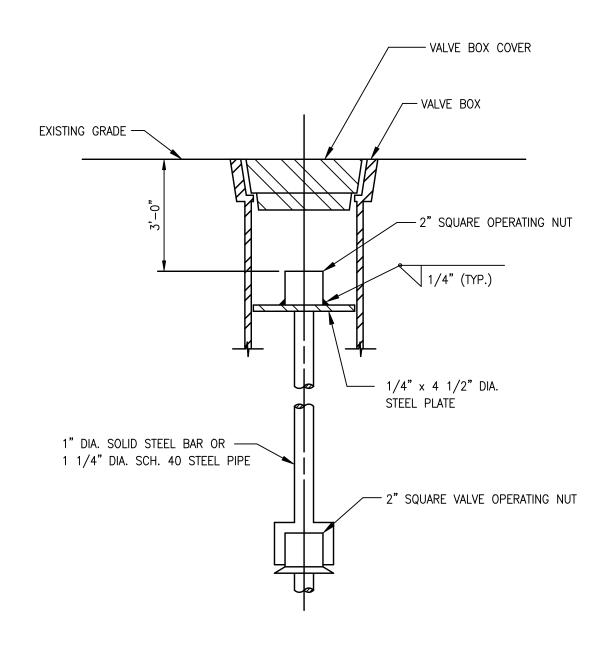
- 1. THE MANUFACTURER IDENTIFICATION AND COUNTRY OF ORIGIN (IF OTHER THAN U.S.) SHALL BE CAST INTO ALL PARTS.
- 2. GUARD POSTS ARE NOT TO BE INSTALLED AT VALVES UNLESS INDICATED ON DRAWINGS, OR AS SPECIFIED BY FAIRFAX WATER.
- 3. VALVE BOX MUST MEET SPECIFICATIONS CONTAINED IN FAIRFAX WATER'S APPROVED PRODUCTS LIST.
- 4. FOR VALVE BOXES DEEPER THAN SIX FEET, USE 5-INCH DIAMETER GRAY CAST IRON (SOIL) PIPE TO EXTEND STANDARD TOP AND BOTTOM SECTIONS.
- 5. STACKING OF VALVE BOX SECTIONS IS NOT ACCEPTABLE.
- 6. VALVE BOXES LOCATED OUTSIDE OF PAVED AREAS MUST BE INSTALLED IN 2' x 2' x 8" CONCRETE PADS, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS OR BY FAIRFAX WATER.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
<u>'</u>	VALVE DOV	DETAIL NO.:
DATE: 9/23	E: 9/23	26



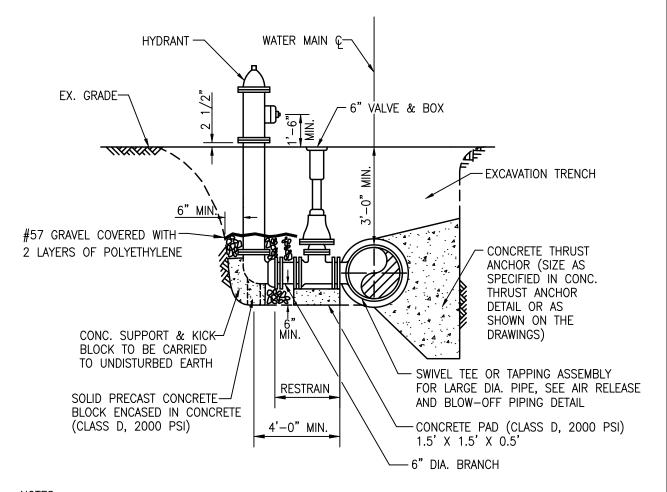
- 1. CONCRETE PADS FOR WATER MAIN VALVE AND TERMINAL BOX ARE TO BE INSTALLED USING REQUIREMENTS FOR CLASS D CONCRETE (2000 PSI).
- 2. PADS TO BE FORMED AND PROPERLY FINISHED.
- 3. VALVE BOX CONCRETE PAD TO BE INSTALLED ON ALL VALVES IN NON-PAVED AREAS OR AS DIRECTED BY FAIRFAX WATER.
- 4. GUARD POSTS ARE NOT TO BE INSTALLED AT VALVES UNLESS INDICATED ON DRAWINGS, OR AS SPECIFIED BY FAIRFAX WATER.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
DATE: 9/23		DETAIL NO.:
	VALVE BOX CONCRETE PAD	27
DAIL. 9/23		



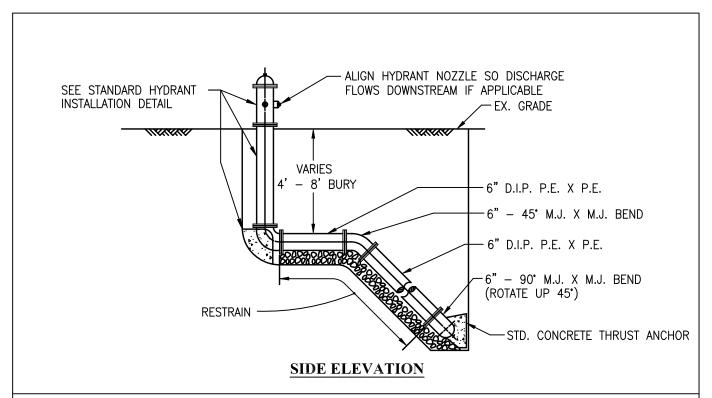
- 1. FOR VALVE BOXES DEEPER THAN SIX FEET, USE 5-INCH DIAMETER GRAY CAST IRON (SOIL) PIPE TO EXTEND STANDARD TOP AND BOTTOM SECTIONS.
- 2. STACKING OF VALVE BOX SECTIONS IS NOT ACCEPTABLE.

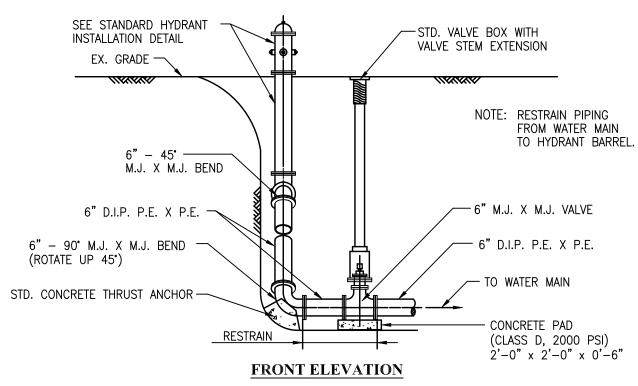
W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
<b>V</b> V	VALVE STEM AND BOX EXTENSION	DETAIL NO.:
DATE: 9/23		28



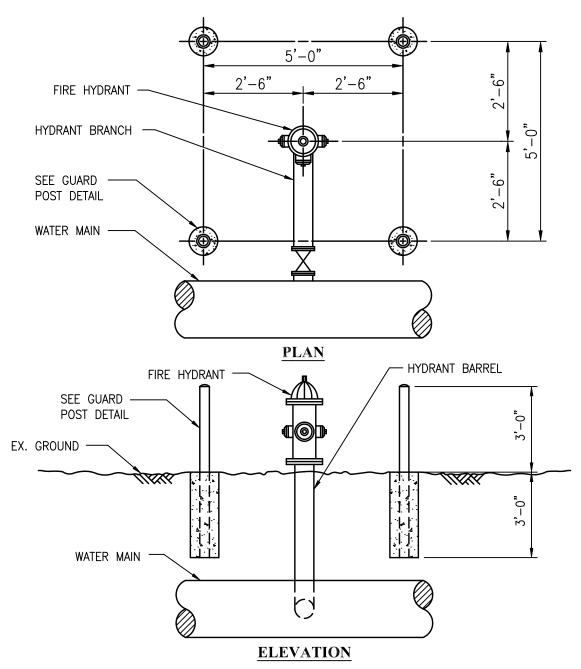
- 1. FOR HYDRANT LOCATION IN REGARD TO FACE OF CURB, SEE FAIRFAX COUNTY PUBLIC FACILITIES MANUAL.
- IF SWIVEL TEE IS NOT USED, VALVE MUST BE RESTRAINED TO TEE WITH RESTRAINING GLANDS BY CONTRACTOR.
- 3. HYDRANTS SHALL HAVE SHOP-APPLIED COATINGS AS FOLLOWS:
  - HYDRANT BARREL: KENNEDY SAFETY RED OR MUELLER RED #10
  - TOPS AND CAPS: KENNEDY SILVER OR MUELLER SILVER #18
- 4. POLYETHYLENE ENCASEMENT TO BE INSTALLED UP TO THE BASE (BOOT) OF THE HYDRANT AND SHALL NOT TO PREVENT DISCHARGE OF WATER THROUGH HYDRANT DRAIN HOLES.
- 5. PROVIDE ADEQUATE CLEARANCE FROM EXISTING GRADE TO ACCESS FLANGE BOLTS.
- 6. THE DRAIN HOLE SHALL BE PLUGGED WHEN HYDRANT IS INSTALLED IN AN AREA SUBJECT TO HIGH GROUND WATER LEVELS, FLOODING, CONTAMINANT OR POLLUTION SPILLS, OR SURFACE WATER PONDING AS IDENTIFIED BY ENGINEER OR AS CALLED OUT ON THE PLANS.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	STANDARD HYDRANT INSTALLATION	DETAIL NO.:
DATE: 9/23		29



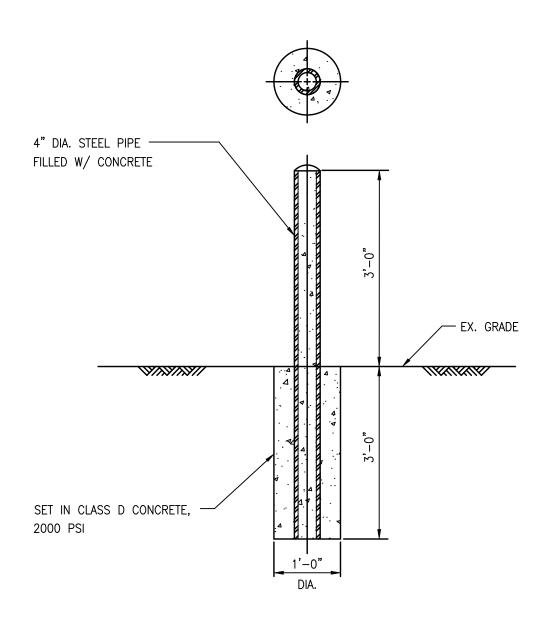


	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	STANDARD HYDRANT	DETAIL NO.:
DATE: 9/23	GREATER THAN 8' BURY	30



- 1. GUARD POSTS ARE USED TO PROTECT A HYDRANT IN AREAS WHERE VEHICULAR OR EQUIPMENT TRAFFIC MAY BE ENCOUNTERED. THE PLANS OR FAIRFAX WATER TO SPECIFY THE INSTALLATION OF GUARD POSTS. DO NOT INSTALL GUARD POSTS WITHIN VDOT RIGHT-OF-WAY UNLESS DIRECTED BY FAIRFAX WATER.
- 2. NO STRUCTURES, POLES, SIGN POSTS, TREES, OR SHRUBS TO BE INSTALLED WITHIN FOUR FEET OF FIRE HYDRANT.

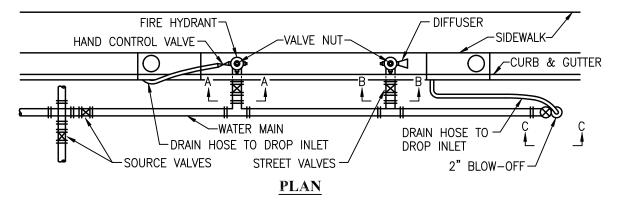
W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	HYDRANT PROTECTION	DETAIL NO.:
DATE: 9/23	GUARD POSTS	31

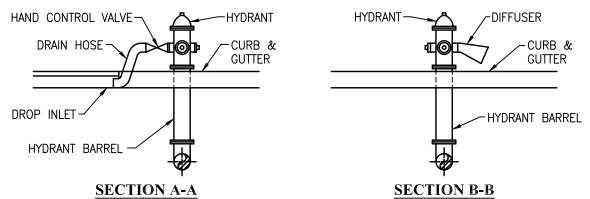


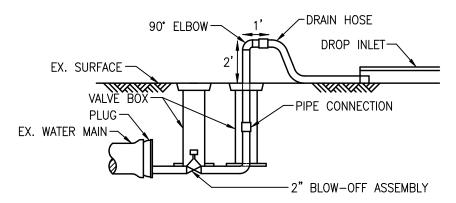
GUARD POSTS SHALL BE PRIMED AND PAINTED BY CONTRACTOR AS FOLLOWS:

- 1. PRIMER: SHERWIN-WILLIAMS DTM WASH PRIMER
- 2. TOP COAT (2 COATS ARE REQUIRED): SHERWIN-WILLIAMS SHER-CRYL HPA ROBOTIC BLUE (SW4063)

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	GUARD POST	DETAIL NO.:
DATE: 9/23	GOALD 1 OD1	32



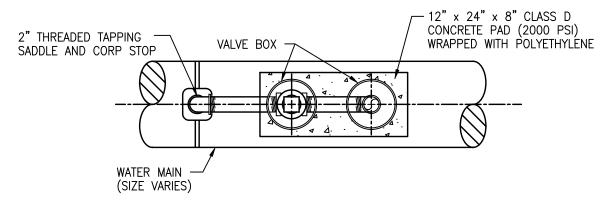


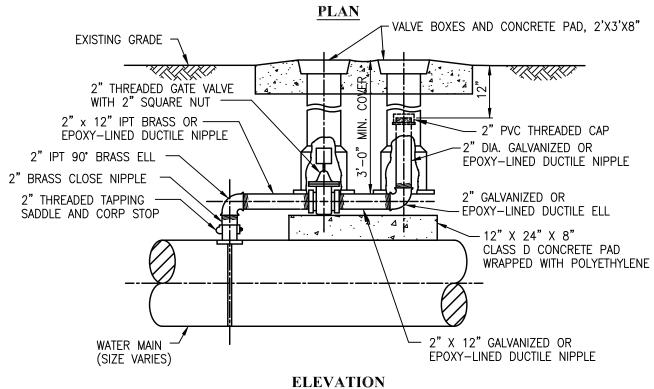


## **SECTION C-C**

- 1. DO NOT SUBMERGE DISCHARGE END OF DRAIN HOSE, PROVIDE AIR GAP.
- 2. DECHLORINATE AS APPROPRIATE.

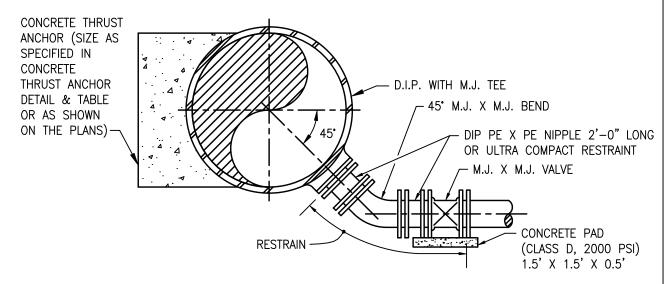
	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	METHODS OF FLUSHING	DETAIL NO.:
DATE: 9/23	FIRE HYDRANTS AND BLOW-OFFS	33



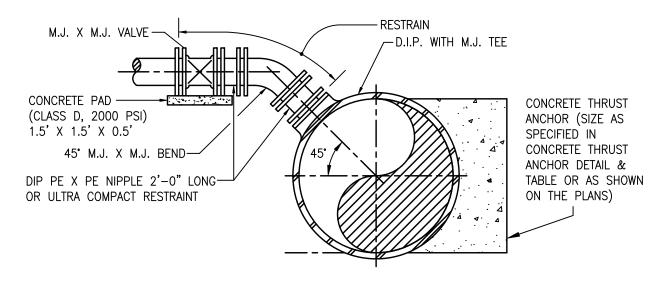


1. THREADED SADDLE TO BE USED ON 24" & LARGER WATER MAINS.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	2" AIR RELEASE	DETAIL NO.:
DATE: 9/23		34



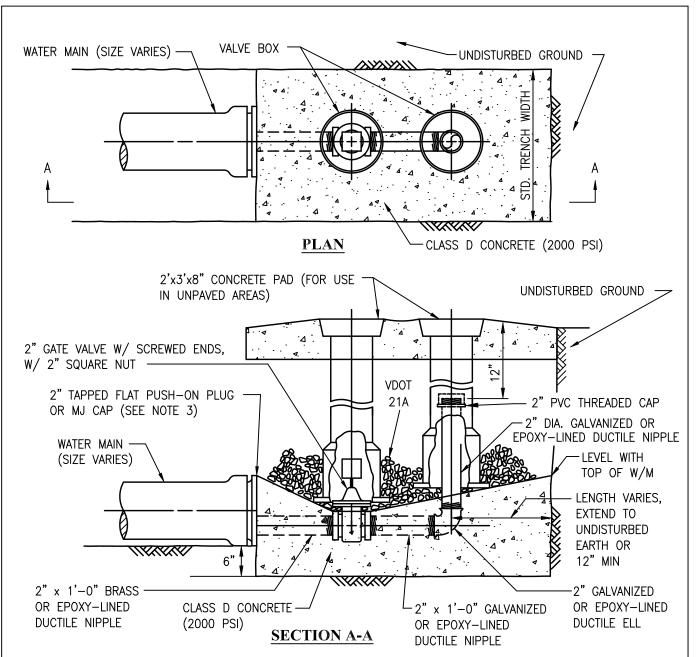
## **BLOW-OFF PIPING**



#### AIR RELEASE PIPING

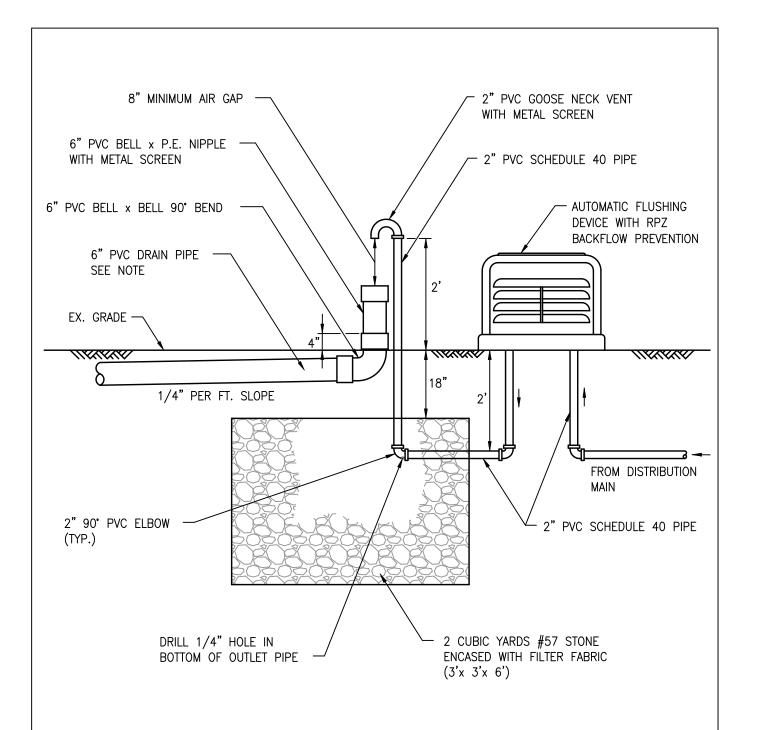
- 1. CONCRETE PAD DIMENSIONS, APPURTENANT SIZES AND LAYOUT IN ACCORDANCE WITH THE DRAWINGS.
- 2. HYDRANT INSTALLATION FOR AIR RELEASE OR BLOW-OFF SHALL BE IN ACCORDANCE WITH STANDARD HYDRANT INSTALLATION.
- 3. ULTRA COMPACT RESTRAINT USED IN PLACE OF DIP NIPPLE, AS DIRECTED BY FAIRFAX WATER, SHALL BE A FOSTER ADAPTER OR EQUAL APPROVED BY FAIRFAX WATER.

	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
DATE: 9/23	AIR RELEASE AND BLOW-OFF PIPING DUCTILE IRON PIPE 12" & LARGER	DETAIL NO.:



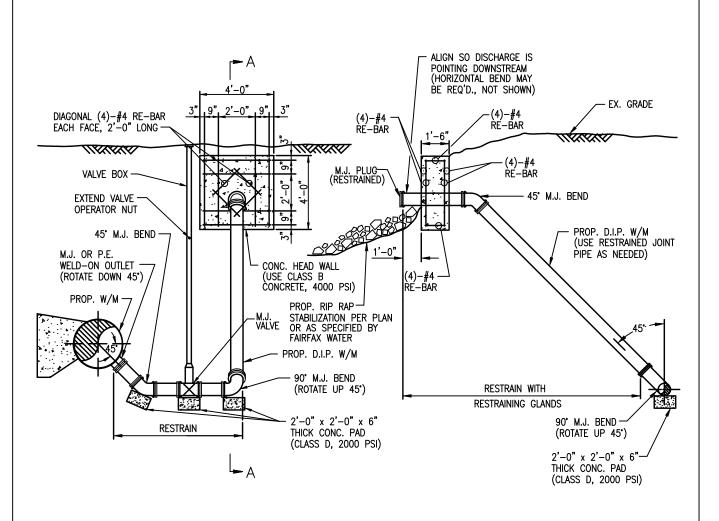
- 1. EXTEND BLOCKING BEYOND THE WATER MAIN TO UNDISTURBED GROUND OR AS SPECIFIED BY FAIRFAX WATER.
- 2. PER VDOT REQUIREMENTS, BLOW-OFF VALVE BOXES TO BE NO CLOSER THAN 5'-0" TO EDGE OF PAVEMENT IN CUL-DE-SAC INSTALLATIONS.
- 3. ECCENTRIC TAPPED PLUG OR CAP TO BE USED AT THE 12:00 O'CLOCK POSITION FOR AN AIR RELEASE OR THE 6:00 O'CLOCK POSITION FOR A BLOW-OFF ON WATER MAINS 24" AND LARGER. 16" AND SMALLER WATER MAINS TO BE CENTERLINE TAPPED. DISHED PLUGS AND CAPS SHALL BE PROVIDED WITH A BOSSED OUTLET SO THE 2" TAP IS PERPENDICULAR TO THE PLUG OR CAP.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
		DETAIL NO.:
	2" BLOW-OFF	36
DATE: 9/23		



NOTE:
ROUTE DRAIN TO DAYLIGHT WITH A RIP—RAP CHANNEL DITCH TO NEAREST ESTABLISHED DRAINAGE FACILITY.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	AUTOMATIC FLUSHING DEVICE	DETAIL NO.:
DATE: 9/23	AND DRAINAGE PIPING	37



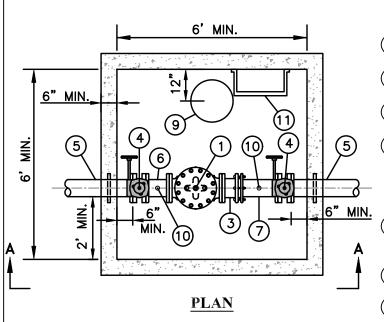
## **PLAN**

## **SECTION A-A**

#### NOTE:

LENGTH OF PIPING AND NUMBER OF FITTINGS VARY BY LOCATION. SEE PLANS FOR HORIZONTAL ALIGNMENT OF BLOW-OFF.

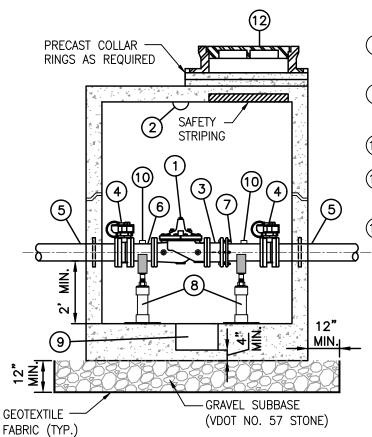
W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	8" & 12" HEADWALL BLOW-OFF	DETAIL NO.:
DATE: 9/23		38



#### **ITEM**

- 1) PRESSURE REDUCING VALVE
- (2) PULLING IRON (SEE NOTE 12)
- 3) FLANGED COUPLING ADAPTER
- FLANGED 4" GATE OR 6"-12" BUTTERFLY
  VALVE W/HAND WHEEL (HAND WHEEL AND
  ACTUATOR SHALL BE LOCATED ON TOP OF PIPE
  OR FACING THE LADDER)
- (5) FLANGE x PLAIN END DUCTILE IRON WALL PIPE (CENTER THRUST COLLAR IN VAULT WALL)
- (6) FLANGE x FLANGE DUCTILE IRON PIPE
- (7) FLANGE x PLAIN END DUCTILE IRON PIPE (ADJUST LENGTH AS NEEDED, PROVIDE 0.5" MAX SPACING)
- (8) STANDON S92 STAINLESS STEEL SADDLE SUPPORT OR APPROVED EQUAL
- (9) 16" x 16" OR 16" DIA. x 10" DEEP SUMP (SEE NOTE 8, DETAIL 39A)
- (10) 3/4" CORPORATION STOP x 3/4" FIP
- 11) ALUMINUM LADDER, INSTALL W/ VAULT LADDER SAFETY POST

(12) 30" MANHOLE FRAME AND COVER, VDOT STYLE
WF&C-1 (WATERTIGHT), GROUT IN PLACE. USE
36" MANHOLE FRAME AND COVER FOR 12"
PRESSURE REDUCING VALVE. VAULTS INSTALLED
OUTSIDE OF PAVED AREAS (SEE NOTE 11,
DETAIL 39A FOR VAULTS INSTALLED OUTSIDE OF
PAVED AREAS)



SECTION A-A

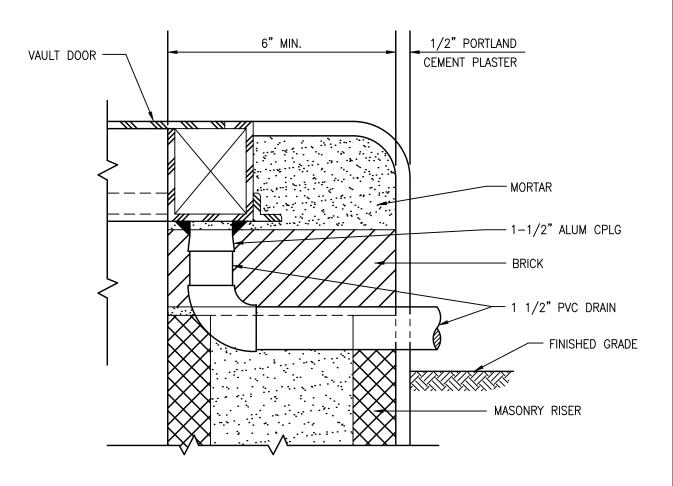
W	
DATE: 9/23	1

FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
4" THROUGH 12" PRESSURE REDUCING VALVE VAULT	DETAIL NO.:

#### **VAULT NOTES:**

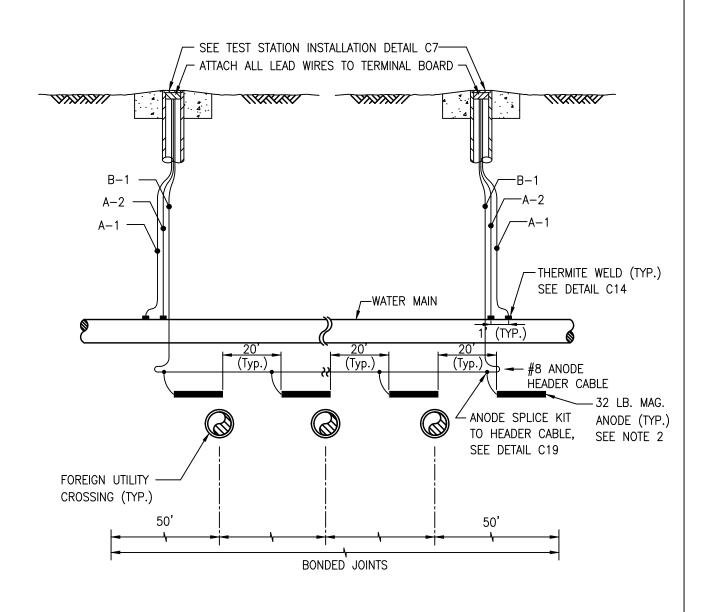
- 1. ITEMS #1 THRU #12 SHALL BE PROVIDED IN ACCORDANCE WITH FAIRFAX WATER'S APPROVED PRODUCT LIST AND STANDARD DETAILS.
- 2. MANHOLE FRAME AND COVER SHALL BE SET IN CEMENT MORTAR AND SECURED TO THE PRECAST CONCRETE COLLAR WITH INSERT TYPE FASTENERS AND BOLTS.
- 3. ALUMINUM SURFACES COMING IN CONTACT WITH MASONRY OR CONCRETE AND ALL TIE RODS SHALL BE COATED WITH CARBOLINE BITUMASTIC 50 OR EQUAL.
- 4. ALL PIPING INSIDE VAULT AND SAFETY STRIPING SHALL BE COATED IN ACCORDANCE WITH SECTION 09900 SPECIAL COATINGS.
- 5. FOR PRECAST VAULTS, THREE MAXIMUM NUMBER OF JOINTS ALLOWED, TO CONSIST OF BASE/WALL SECTION, MIDDLE SECTION, AND TOP/LID SECTION. WALL OF BASE/WALL SECTION TO BE A MINIMUM OF 1-FOOT ABOVE CROWN OF PIPE.
- 6. JOINTS SHALL BE KEYED AND MASTIC TYPE ROPE SEALANT APPLIED, AS MANUFACTURED BY MULTISEAL, INC. OR CONCRETE SEALANTS, INC. (CONSEAL).
- 7. FACTORY APPLIED EXTERIOR BITUMASTIC WATERPROOFING, MINIMUM DRY THICKNESS REQUIRED 9-12 MILLS.
- 8. PROVIDE 1" WIDE DRAINAGE CHANNELS, SLOPED 0.25" PER FOOT, FROM VAULT CORNERS TO SUMP PIT. MANUFACTURER TO PROVIDE DESIGN OF THE DRAINAGE CHANNELS AND ENSURES THEY DO NOT CONFLICT WITH PLACEMENT OF FLANGE/SADDLE SUPPORTS.
- 9. VAULTS SHALL ACCOMMODATE AASHTO H-20 LIVE LOAD WITH IMPACT.
- 10. VAULTS SHALL BE NON-BUOYANT WHEN INSTALLED. MANUFACTURER TO PROVIDE BUOYANCY CALCULATIONS WITH ASSUMED WATER TABLE ELEVATION AT THE GROUND SURFACE. CALCULATIONS SHALL NOT INCLUDE THE WEIGHTS OF THE PIPING OR EQUIPMENT INSTALLED AND SHALL BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA. PROVIDE ANTI-FLOATATION COLLARS AS NECESSARY.
- 11. VAULTS INSTALLED OUTSIDE OF PAVED AREAS SHALL INCLUDE THE FOLLOWING:
  - A. WHERE FEASIBLE, LIDS SHALL BE BETWEEN 3" AND 6" ABOVE GRADE WITH POSITIVE DRAINAGE AWAY FROM LID.
  - B. 3'-0" X 3'-0" BILCO ALUMINUM ACCESS DOOR (TYPE J-AL WITH H-20 LOADING) WITH LADDER SAFETY POST AND RECESSED HASP FOR PAD LOCK (5" LENGTH AND 3" WIDTH MINIMUM). FOR 12" PRESSURE REDUCING VALVE, USE 3'-6" X 3'-6" BILCO ALUMINUM ACCESS DOOR.
  - C. PROVIDE 1 ½" DIAMETER PVC DRAIN WITH SCREEN FROM ACCESS DOOR FRAME CHANNEL TO DAYLIGHT. WHERE RISERS ARE REQUIRED, SEE DETAIL 40.
  - D. MILLER DURAHOIST WALL MOUNT SLEEVE, MODEL DH-8ZP (LOCATE WITHIN HATCH OPENING AND SECURE WITH 4 INSERT FASTENERS AND BOLTS).
- 12. PULLING IRON AND VAULT LID SHALL BE SIZED AND RATED TO SUPPORT THE WEIGHT OF THE PRV.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	4" THROUGH 12" PRESSURE REDUCING VALVE VAULT	DETAIL NO.:
DATE: 9/23	VAULT NOTES	99B



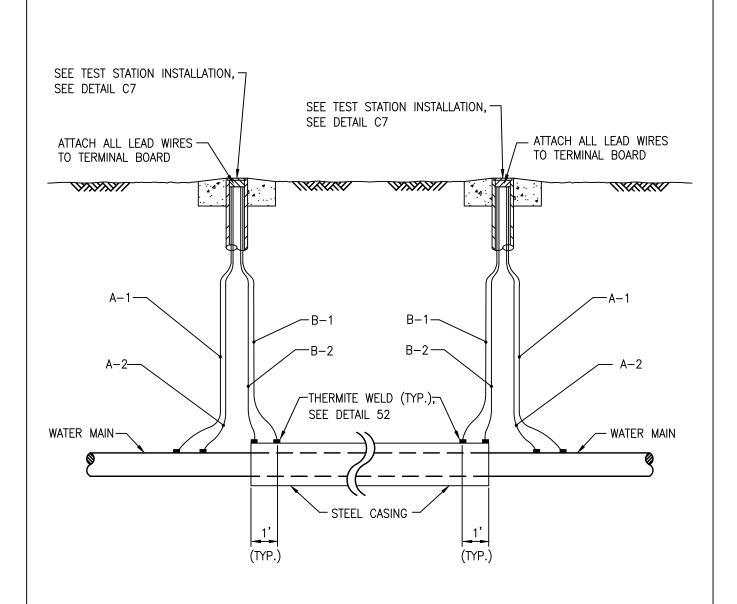
- 1. APPLY DAMPPROOFING AS SPECIFIED IN SECTION 09900 SPECIAL COATINGS.
- 2. 6" THICK MASONRY RISER FOR PRECAST VAULT.
- 3. FILL RISER BLOCK CORES WITH MORTAR.
- 4. USE NO MORE THAN THREE BRICK COURSES TO ADJUST TOP ELEVATION.
- 5. PRECAST CONCRETE COLLARS CAN BE USED UP TO BRICK COURSES.

V	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
<u>'</u>	VAULT ACCESS DOOR	DETAIL NO.:
DATE: 9/23	INSTALLATION AND DRAIN PIPE	40



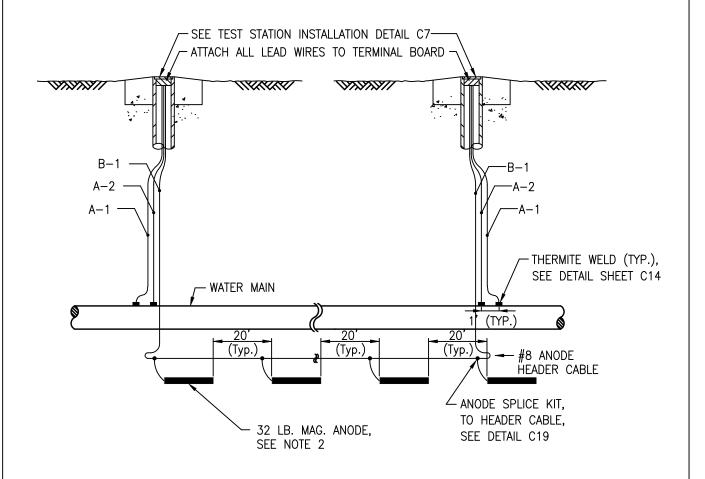
- 1. FOR USE ON 16" OR LARGER WATER MAINS WHERE FOREIGN UTILITY IS PROTECTED BY IMPRESSED CURRENT OR AS OTHERWISE REQUIRED BY FAIRFAX WATER.
- 2. MINIMUM 4 32 LBS MAGNESIUM ANODES INSTALLED OR AS SPECIFIED BY FAIRFAX WATER, SEE DETAIL C25 & C27 FOR QUANTITY, SPACING, AND PLACEMENT.
- 3. SEE DETAIL C20 FOR WIRING DETAIL.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TYPE FD CORROSION CONTROL TEST STATION - FOREIGN PIPELINE CROSSING	DETAIL NO.:
DATE: 9/23	TEST STATION - FUNEIGN PIPELINE CROSSING	



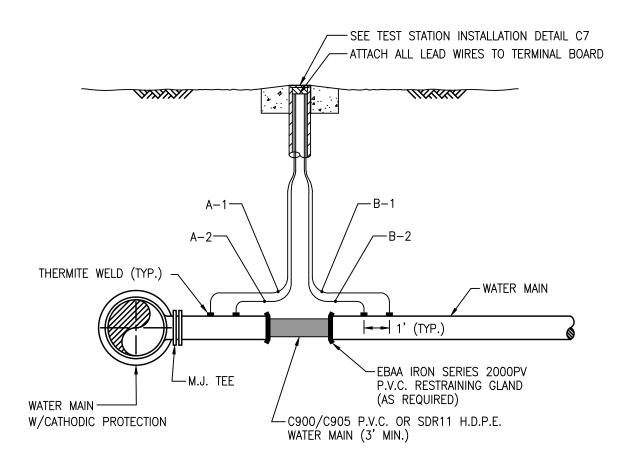
- 1. ONLY FOR USE WHEN WATER MAIN HAS AN EXISTING OR PROPOSED CATHODIC PROTECTION SYSTEM.
- 2. CARRIER PIPE (WATER MAIN) WITHIN STEEL CASING DOES NOT REQUIRE POLYETHYLENE ENCASEMENT, BUT DOES REQUIRE ALL PIPE JOINTS TO BE BONDED FOR 24" AND LARGER.
- 3. TEST STATION REQUIRED AT BOTH ENDS OF CASING.
- 4. SEE DETAIL C21 FOR WIRING DETAIL.
- 5. SEE DETAIL C27 FOR TEST STATION LOCATIONS.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TYPE CS CORROSION CONTROL TEST STATION - TRENCHLESS CROSSING	DETAIL NO.:
DATE: 9/23	TEST STATION - TRENCHLESS CROSSING	



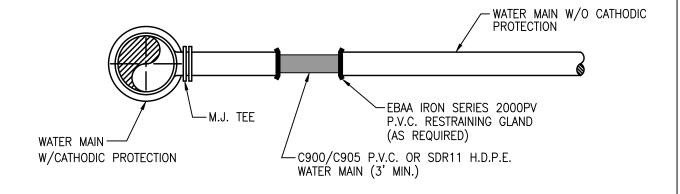
- 1. FOR USE WHEN INSTALLING WATER MAIN IN CORROSIVE SOILS (GENERALLY, TRANSMISSION MAINS ONLY).
- 2. SEE DETAIL C25 FOR PLACEMENT OF ANODES.
- 3. SEE DETAIL C27 FOR TEST STATION LOCATIONS.
- 4. SEE DETAIL C22 FOR WIRING DETAIL.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TYPE TD CORROSION CONTROL	DETAIL NO.:
DATE: 9/23	TEST STATION - STANDARD	C3



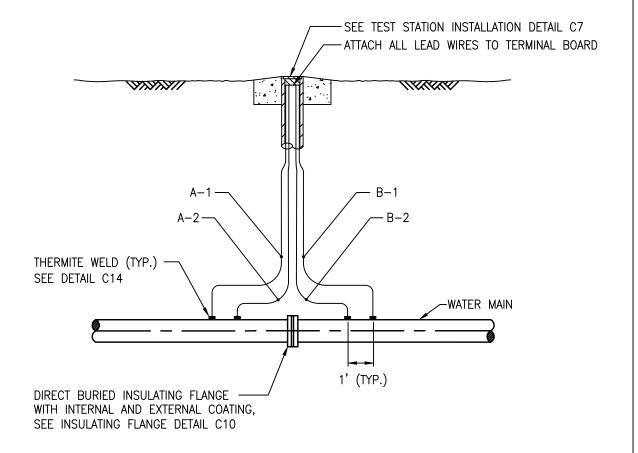
- 1. TYPICALLY FOR USE WHEN ISOLATING A CATHODICALLY PROTECTED TRANSMISSION WATER MAIN FROM NON—CATHODICALLY PROTECTED DISTRIBUTION MAIN OR OTHER DESIRED ELECTRICAL ISOLATION POINTS.
- 2. SEE DETAIL C23 WIRING DETAIL.

V	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TYPE I CORROSION CONTROL TEST STATION – ISOLATOR	DETAIL NO.:
DATE: 9/23	(P.V.C. OR H.D.P.E. INSERT)	C4



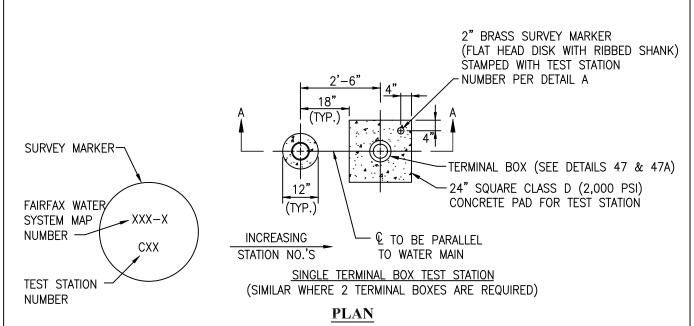
TYPICALLY FOR USE WHEN ISOLATING A CATHODICALLY PROTECTED TRANSMISSION WATER MAIN FROM NON-CATHODICALLY PROTECTED DISTRIBUTION MAIN OR OTHER DESIRED ELECTRICAL ISOLATION POINTS.

	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	ISOLATOR	DETAIL NO.:
DATE: 9/23	(P.V.C. OR H.D.P.E. INSERT)	C5

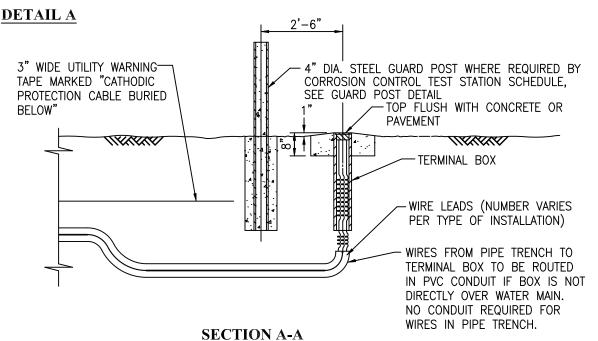


- 1. FOR USE WHEN ISOLATING CATHODICALLY PROTECTED TRANSMISSION MAIN FROM NON-CATHODICALLY PROTECTED TRANSMISSION MAINS, TRANSMISSION MAINS OF DISSIMILAR MATERIALS, OR OTHER DESIRED ELECTRICAL ISOLATION POINTS.
- 2. SEE DETAIL C23 FOR WIRING DETAIL.
- 3. SEE DETAIL C27 FOR TEST STATION LOCATIONS.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TYPE IS CORROSION CONTROL	DETAIL NO.:
	TEST STATION - INSULATED FLANGE	C6
DATE: 9/23		

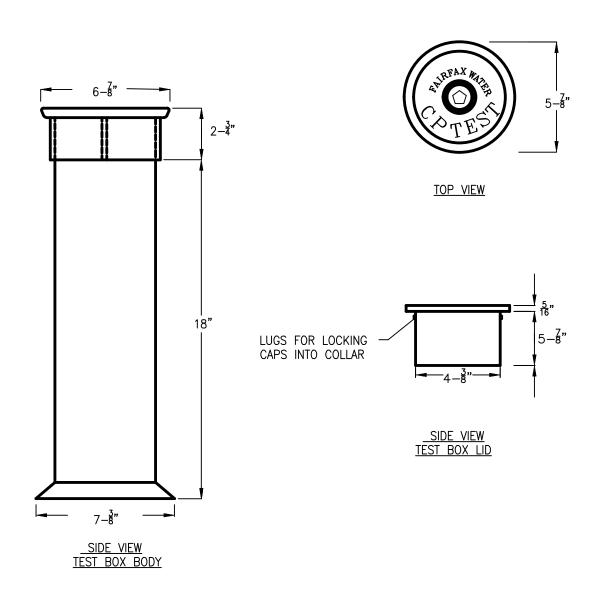


3/8-INCH CHARACTER HEIGHT

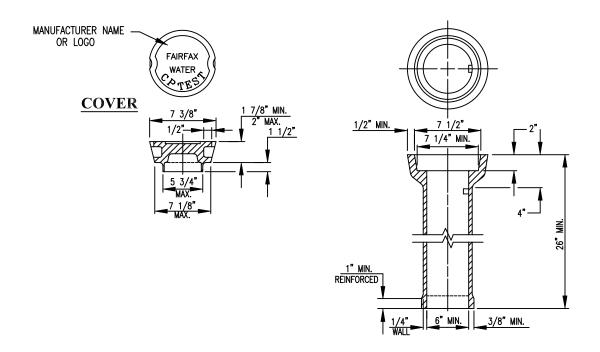


- 1. TEST STATIONS SHALL BE LOCATED ABOVE WATER MAIN WHEN POSSIBLE.
- 2. CONCRETE PAD TO BE INSTALLED ON ALL TEST STATIONS IN NON-PAVED AREAS. USE TEST STATION BOX FOR NON-PAVED AREAS DETAIL (DETAIL C8).
- 3. FOR TEST STATIONS LOCATED IN PAVED AREAS, ENGRAVE TEST STATION NUMBER DIRECTLY ON TERMINAL BOARD. USE TEST STATION BOX FOR PAVED AREAS DETAIL (DETAIL C9).

	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TEST STATION INSTALLATION	DETAIL NO.:
DATE: 9/23		

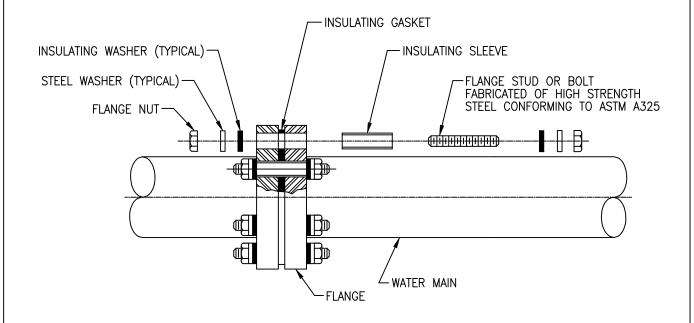


W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TEST STATION BOX FOR NON-PAVED AREAS	DETAIL NO.:
DATE: 9/23		C8



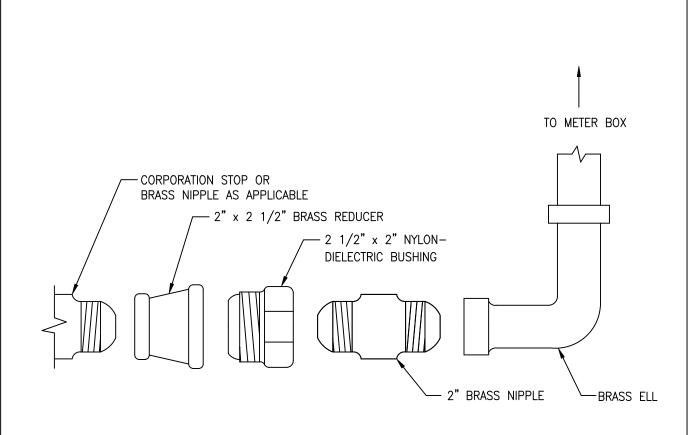
- 1. THE MANUFACTURER IDENTIFICATION AND COUNTRY OF ORIGIN (IF OTHER THAN U.S.) SHALL BE CAST INTO ALL PARTS.
- 2. MUST MEET SPECIFICATIONS CONTAINED IN FAIRFAX WATER'S APPROVED PRODUCTS LIST FOR VALVE BOXES.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
		DETAIL NO.:
	TEST STATION BOX FOR PAVED AREAS	С9
DATE: 9/23		$\cup J$



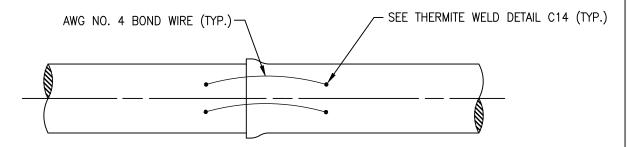
- 1. EXTERNAL COATING OF INSULATING FLANGE SHALL CONSIST OF COMPATIBLE PRIMER, MASTIC, PETROLATUM IMPREGNATED FABRIC TAPE AND OUTER PROTECTIVE WRAP, SEE FAIRFAX WATER'S APPROVED PRODUCTS LIST.
- 2. INTERNAL COATING SHALL BE SHOP—APPLIED CEMENT MORTAR LINING OR FUSION—BONDED EPOXY, IN ACCORDANCE WITH FAIRFAX WATER'S APPROVED PRODUCTS LIST.
- 3. BOLTS AND BOLT STUDS SHALL EXTEND COMPLETELY THROUGH THE NUTS.

W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		DETAIL NO.:
	INSULATING FLANGE	C10
DATE: 9/23		

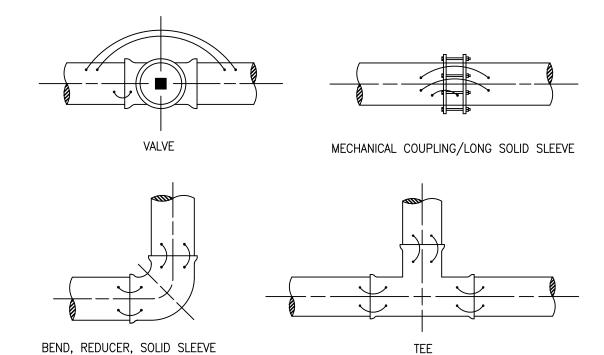


FOR USE WHERE SERVICE LINE IS CONNECTED TO A CATHODICALLY PROTECTED WATER MAIN.

	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	INSULATING UNION	DETAIL NO.:
DATE: 9/23		C11



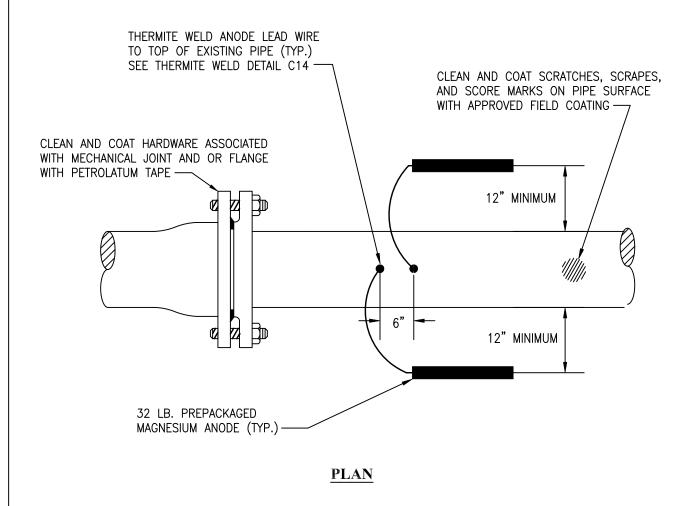
# TYPICAL PIPE JOINT BOND



# **TYPICAL BONDING FOR FITTINGS**

- 1. BOND JOINTS ON UNDERGROUND PIPING WHERE INDICATED ON DRAWINGS AND WITHIN ALL TRENCHLESS CROSSINGS.
- 2. THERMITE WELD BONDING WIRES TO TOP OF PIPE OR FITTINGS.

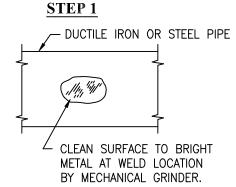
W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
\ <u>'</u>		DETAIL NO.:
DATE: 9/23	PIPE JOINT BONDING	C12

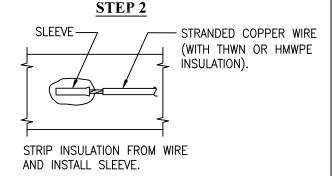


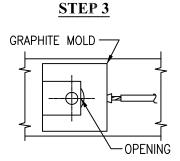
- 1. INSTALL ANODES IN THE VICINITY OF ALL REPAIRED PIPE FAILURES DUE TO CORROSION.
- 2. ANODES PLACED AT SAME DEPTH AS THE BOTTOM OF PIPE AND AT A MINIMUM OF 12" FROM EDGE TO EDGE OF PIPE.
- 3. HOTSPOT CATHODIC PROTECTION TO BE APPLIED TO CAST AND DUCTILE IRON PIPING, DO NOT INSTALL ON COPPER PIPING.
- 4. INSTALL ANODES ON BOTH SIDES OF PIPE.
- 5. ANODES MUST BE PLACED IN NATIVE SOIL. DO NOT BACKFILL AROUND ANODES WITH SAND OR STONE.
- 6. PRESOAK ANODE WITH FIVE GALLONS OF WATER AFTER PLACEMENT AND BEFORE BACKFILLING.

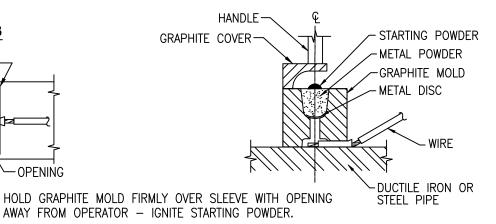
W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	HOTSPOT CATHODIC PROTECTION	DETAIL NO.:
DATE: 9/23	COATING AND ANODE PLACEMENT	C13

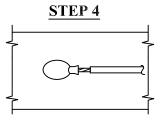
## FOR GENERAL INFORMATION ONLY - FOLLOW MANUFACTURER'S RECOMMENDATIONS







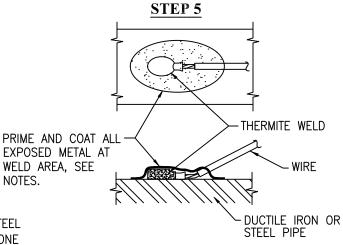




REMOVE SLAG FROM CONNECTION.
THOROUGHLY CLEAN WELD AREA.
STRIKE WELD SHARPLY ON THE SIDE WITH
2 LB HAMMER TO CHECK ADHESION.

### NOTE:

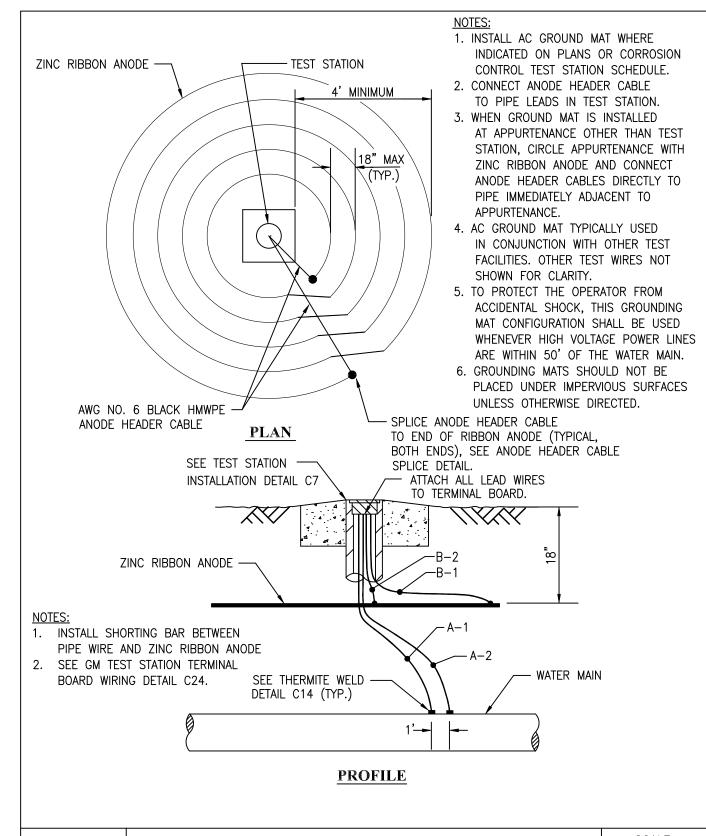
THERMITE WELDS MADE TO DUCTILE IRON AND STEEL PIPE SHALL BE COATED WITH A PREFABRICATED ONE PIECE, ELASTOMERIC CAP OR APPROVED EQUAL. SEE FAIRFAX WATER'S APPROVED PRODUCTS LIST.



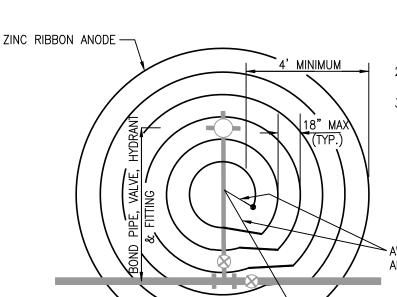
COALE.

FAIRFAX STANDARD	W	
THERMIT		
	DATE: 9/23	

FAIRFAX WATER STANDARD DETAILS	NOT TO SCALE
	DETAIL NO.:
THERMITE WELD	C14



W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TYPE GM CORROSION CONTROL	DETAIL NO.:
DATE: 9/23	TEST STATION - GROUNDING MAT	C15

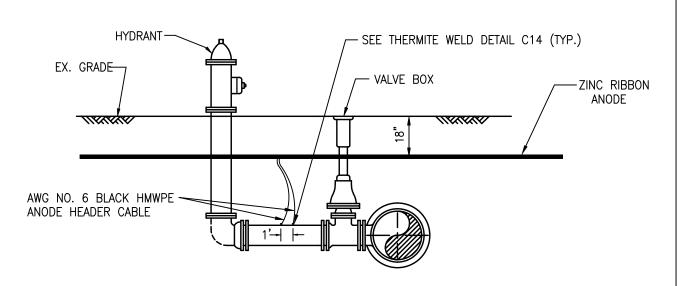


- CIRCLE APPURTENANCE(S) WITH ZINC RIBBON ANODE AND CONNECT ANODE HEADER CABLES DIRECTLY TO PIPE IMMEDIATELY ADJACENT TO APPURTENANCE.
- 2. ALL PIPING FITTINGS, VALVES AND HYDRANT SHALL BE BONDED.
- 3. TO PROTECT THE OPERATOR FROM ACCIDENTAL SHOCK, THIS GROUNDING MAT CONFIGURATION SHALL BE USED WHENEVER HIGH VOLTAGE POWER LINES ARE WITHIN 50' OF THE WATER MAIN.
- 4. GROUNDING MATS SHOULD NOT BE PLACED UNDER IMPERVIOUS SURFACES UNLESS OTHERWISE DIRECTED.

AWG NO. 6 BLACK HMWPE ANODE HEADER CABLE

SPLICE ANODE HEADER CABLE TO END OF RIBBION ANODE (TYPICAL BOTH ENDS), SEE ANODE HEADER CABLE SPLICE DETAIL.

# **PLAN**



## **ELEVATION**



FAIRFAX	WATER
STANDARD	<b>DETAILS</b>

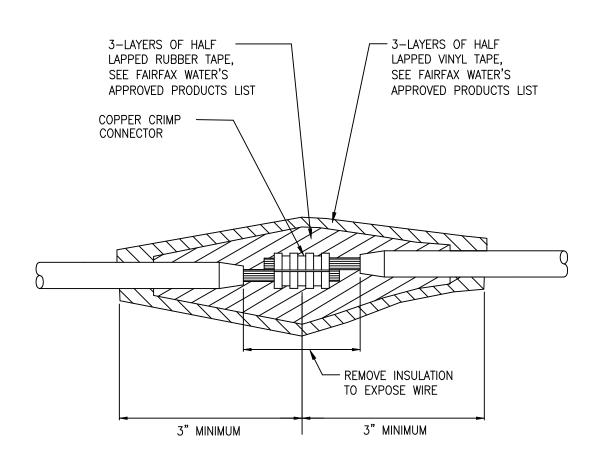
SCALE:

NOT TO SCALE

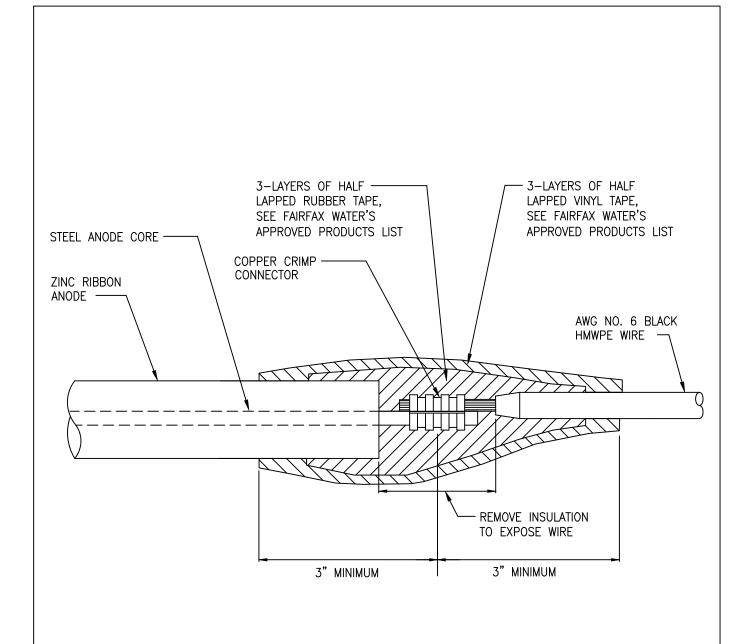
DETAIL NO.:

GROUNDING MAT - FIRE HYDRANT

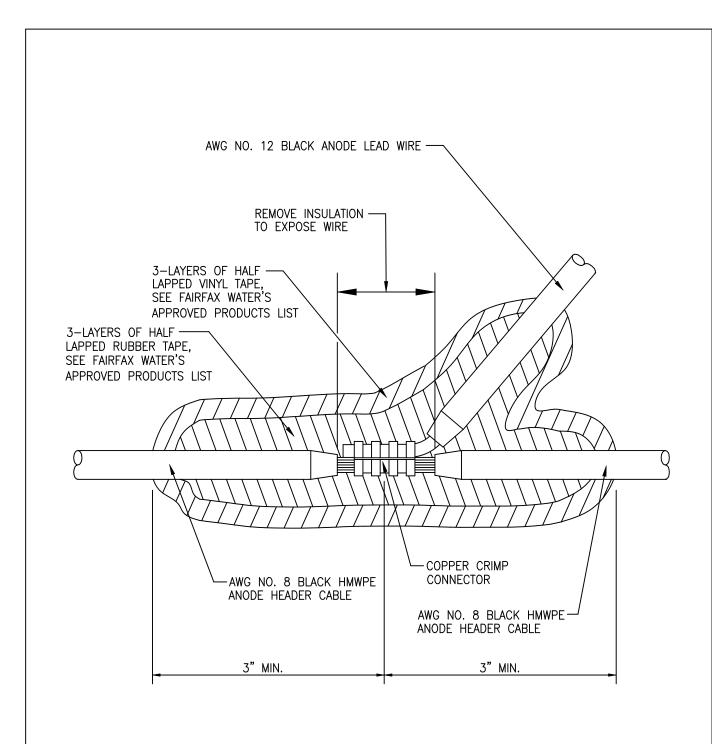
C16



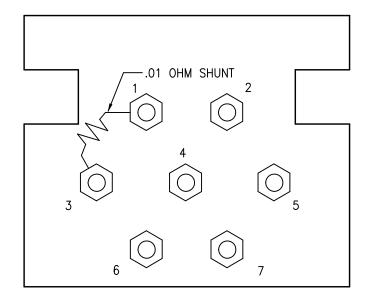
W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
		DETAIL NO.:
2475 2 /27	TYPICAL WIRE SPLICE	C17
DATE: 9/23		



FAIRFAX WATER STANDARD DETAILS		SCALE: NOT TO SCALE
	RIBBON ANODE TO CABLE SPLICE	DETAIL NO.:
DATE: 9/23		C18



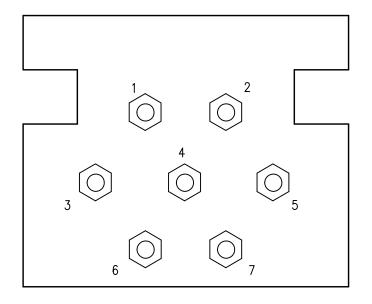
W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
<u></u>	ANODE HEADER CABLE SPLICE	DETAIL NO.:
DATE: 9/23		C19



TEST STATION TERMINAL	WIRE DESIGNATION	COLOR/AWG	DESCRIPTION
1	A-1	WHITE #12	PIPE/THWN
2	A-2	BLACK #12	PIPE/THWN
3	B-1	BLACK #8	ANODE HEADER CABLE

- 1. INSTALL .01 OHM SHUNT BETWEEN PIPE WIRE AND ANODE CABLE.
- 2. TERMINAL BOARD NUMBERS SHALL BE ENGRAVED ON TERMINAL BOARDS.

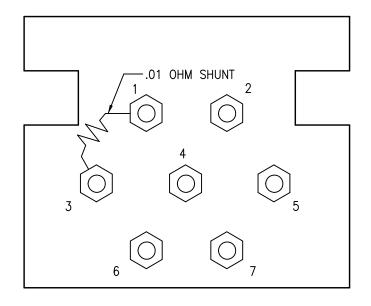
	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TYPE FD TEST STATION TERMINAL BOARD AND WIRING	DETAIL NO.:
DATE: 9/23	TERMINAL BOARD AND WIRING	C20



TEST STATION TERMINAL	WIRE DESIGNATION	COLOR/AWG	DESCRIPTION
1	A-1	WHITE #12	PIPE/THWN
2	A-2	WHITE #12	PIPE/THWN
3	B-1	BLACK #12	PIPE/THWN
4	B-2	BLACK #12	PIPE/THWN

TERMINAL BOARD NUMBERS SHALL BE ENGRAVED ON TERMINAL BOARDS.

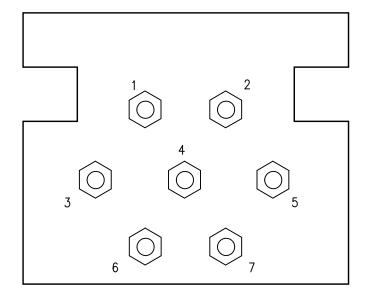
W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TYPE CS TEST STATION	DETAIL NO.:
DATE: 9/23	TERMINAL BOARD AND WIRING	C21



TEST STATION TERMINAL	WIRE DESIGNATION	COLOR/AWG	DESCRIPTION
1	A-1	BLACK #12	PIPE/THWN
2	A-2	BLACK #12	PIPE/THWN
3	B-1	BLACK #8	ANODE HEADER CABLE

- 1. INSTALL .01 OHM SHUNT BETWEEN TEST STATION TERMINAL 1 AND 3 (A-1, B-1).
- 2. TERMINAL BOARD NUMBERS SHALL BE ENGRAVED ON TERMINAL BOARDS.

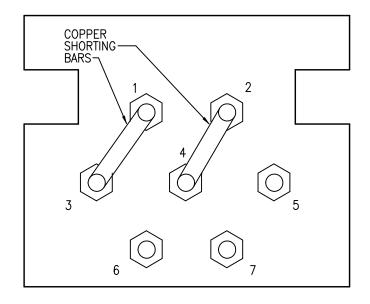
	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TYPE TD TEST STATION TERMINAL BOARD AND WIRING	DETAIL NO.:
DATE: 9/23	IERWINAL DOARD AND WIRING	C22



TEST STATION TERMINAL	WIRE DESIGNATION	COLOR/AWG	DESCRIPTION
1	A-1	WHITE #12	PIPE/THWN
2	A-2	WHITE #12	PIPE/THWN
3	B-1	BLACK #12	PIPE/THWN
4	B-2	BLACK #12	PIPE/THWN

1. TERMINAL BOARD NUMBERS SHALL BE ENGRAVED ON TERMINAL BOARDS.

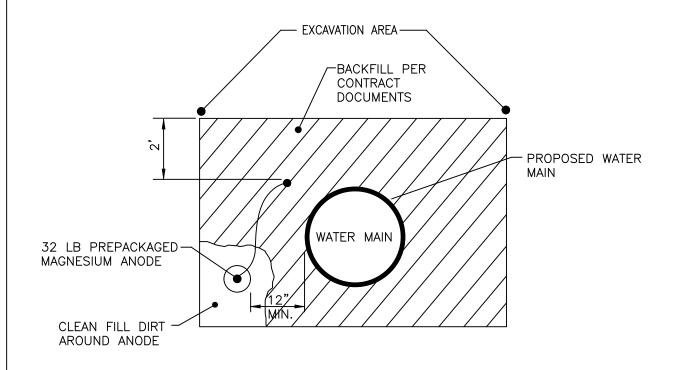
W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TYPE IS AND I TEST STATION	DETAIL NO.:
DATE: 9/23	TERMINAL BOARD AND WIRING	C23



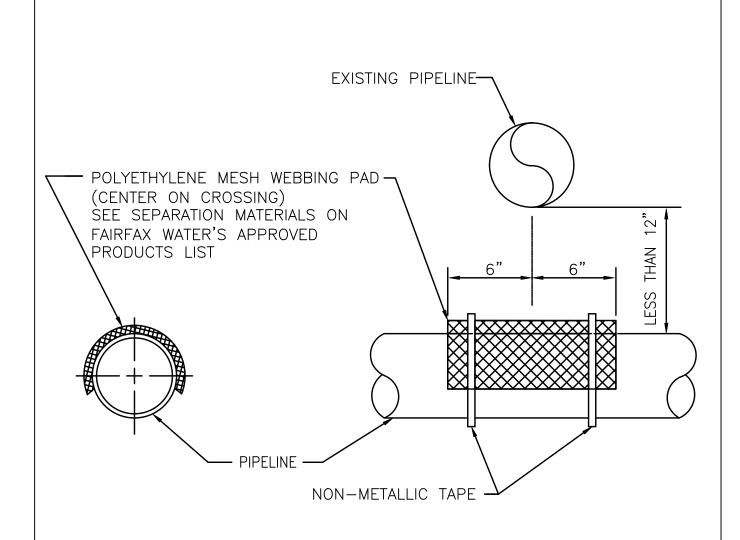
TEST STATION TERMINAL	WIRE DESIGNATION	COLOR/AWG	DESCRIPTION
1	A-1	WHITE #12	PIPE/THWN
2	A-2	WHITE #12	PIPE/THWN
3	B-1	BLACK #6	AWG
4	B-2	BLACK #6	AWG

- 1. INSTALL SHORTING BAR BETWEEN PIPE WIRE AND ZINC RIBBON ANODE.
- 2. TERMINAL BOARD NUMBERS SHALL BE ENGRAVED ON TERMINAL BOARDS.

	FAIRFAX WATER	SCALE:
	STANDARD DETAILS	NOT TO SCALE
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	THE CAL PROPERTY OF A PROPERTY	DETAIL NO.:
	TYPE GM TEST STATION TERMINAL BOARD AND WIRING	C24
DATE: 9/23	THINNING BONNE MINE	



W	FAIRFAX WATER STANDARD DETAILS	SCALE: NOT TO SCALE
	TYPICAL BACKFILLING AND	DETAIL NO.:
	ANODE BED PLACEMENT AREA	C25
DATE: 9/23		020



NOTE:
USE ONLY WHEN PIPES ARE LESS THAN 12" APART.

8	FAIRFAX WATER STANDARD DETAILS
	TYPICAL SEPARATOR TO AVOID ELECTRICAL CONTACT
DATE: 9/23	AVOID ELECTRICAL CONTACT

DETAIL NO.:

SCALE:

CORROSION CONTROL TEST STATION SCHEDULE										
PLAN SHEET NUMBER	APPROXIMATE WATER MAIN STATION	TEST STATION NO.	TEST STATION TYPE	TEST STATION DETAIL NO.	ANODE SPACING (FEET)	NO. OF 32 LB. PREPACKAGED MAGNESIUM ANODES	NO. OF INSULATING FLANGES	NO. OF A.C. GROUND MATS	NO. OF TEST STATIONS	NO. OF GUARD POSTS

W
DATE: 9/23

FAIRFAX WATER STANDARD DETAILS

SCALE:

NOT TO SCALE

DETAIL NO.:

CORROSION CONTROL TEST STATION SCHEDULE

C27