

NOTES:

1. ALLOWED REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLIES AND THEIR ORIENTATIONS SHALL BE LIMITED TO THOSE SPECIFIED ON THE "LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES" BY THE UNIVERSITY OF SOUTHERN CALIFORNIA'S FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH, 2010 OR LATEST REVISION.
2. THE BACKFLOW DEVICE SHALL BE LOCATED: (A) A MAXIMUM OF 5' FROM BACK OF SIDEWALK (TYP); OR AT A LOCATION DETERMINED BY THE WATER DISTRIBUTION CROSS CONNECTION PERSONNEL IN THE FIELD.
3. CONCRETE PAD SHALL BE CLASS B CONCRETE, 4" MINIMUM THICKNESS, REINFORCED WITH WELDED WIRE MESH.
4. WHERE SERVICE LINES SMALLER THAN 4" PASS UNDER A SIDEWALK, THEY SHALL BE INSTALLED IN A PVC CASING/SLEEVE AT LEAST 1" LARGER THAN THE SERVICE LINE AND EXTENDS AT LEAST 6" BEYOND THE EDGES OF THE SIDEWALK.
5. METAL PIPES EXPOSED TO SOIL OR CONCRETE SHALL BE COATED WITH 3M SCOTCHWRAP PIPE PRIMER AND WRAPPED WITH 3M SCOTCHWRAP 20 MIL NO.51 BLACK PVC TAPE (1/2" OVERLAP).
6. THE PORTION OF THE TRENCH FROM BACK OF METER TO THE DEVICE SHALL REMAIN OPEN UNTIL WATER DISTRIBUTION CROSS CONNECTION PERSONNEL HAVE INSPECTED AND APPROVED THE INSTALLATION. CALL 669-600-7322.
7. THE TESTING SIDE OF THE DEVICE SHALL HAVE A MINIMUM 24" OF CLEARANCE FROM OBSTRUCTIONS (NON-TRIMBLE LANDSCAPING, BUILDINGS, UTILITIES, ETC). MULTIPLE BACKFLOW DEVICES SHALL BE SEPARATED BY A MINIMUM OF 18" AND BE OF EQUAL HEIGHT.
8. BOLLARDS MAY BE REQUIRED BY CITY TO PROVIDE ADDITIONAL PROTECTION.
9. PRV TO BE MAINTAINED BY PROPERTY OWNER.
10. NO GALVANIZED PIPE OR DISIMILAR METAL PIPE MAY BE USED.
11. A BACKFLOW PREVENTER ENCLOSURE IS REQUIRED, SEE DETAIL 19B.
12. BACKFLOW PREVENTER TO BE PAINTED WITH PURPLE COLOR, NO BRASS TO BE PAINTED.

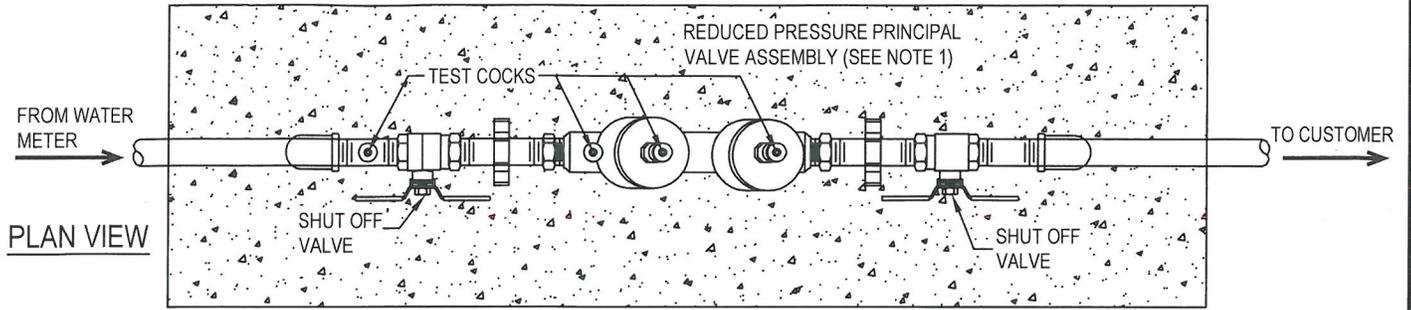
**RECYCLED WATER
BACKFLOW PREVENTION DEVICE
SIZE UP TO 2 INCHES**



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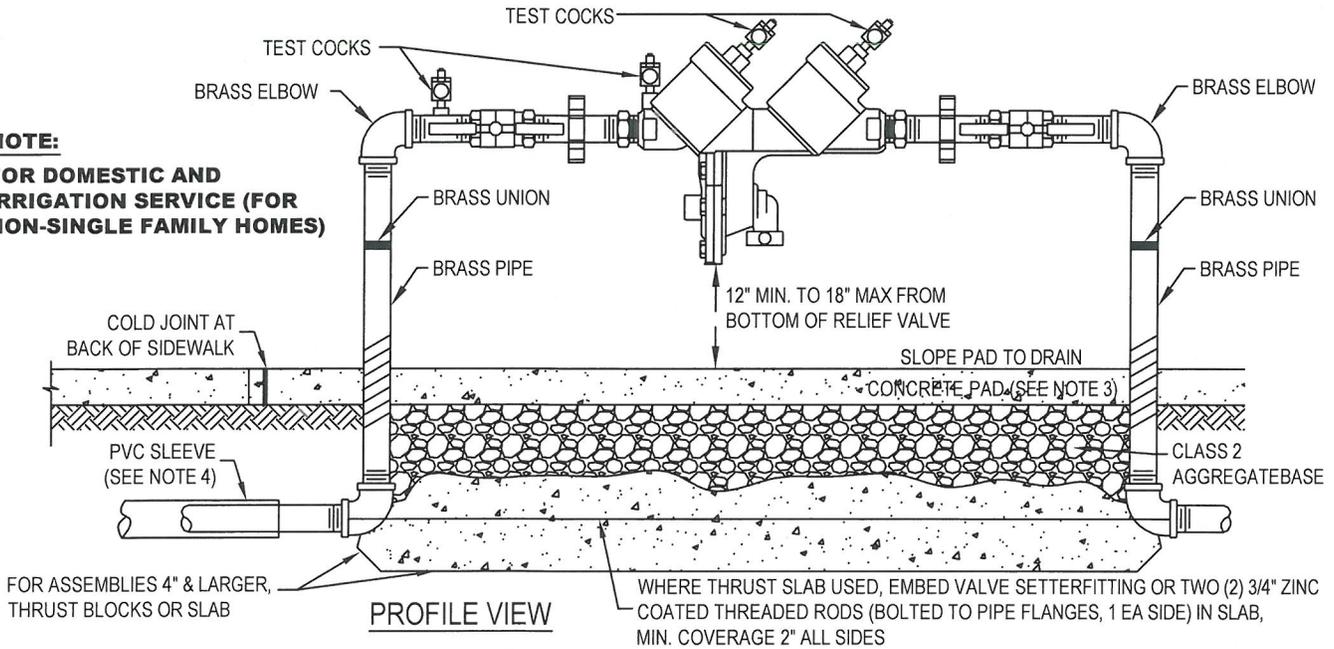
DATE : JUNE 30, 2006
REVISED: MAY 2015

DWG. **18B-1**



PLAN VIEW

NOTE:
FOR DOMESTIC AND IRRIGATION SERVICE (FOR NON-SINGLE FAMILY HOMES)



PROFILE VIEW

NOTES:

1. ALLOWED BACKFLOW ASSEMBLIES AND THEIR ORIENTATIONS SHALL BE LIMITED TO THOSE SPECIFIED ON THE "LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES" BY THE UNIVERSITY OF SOUTHERN CALIFORNIA'S FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH, 2010 OR LATEST REVISION.
2. THE BACKFLOW DEVICE SHALL BE LOCATED: A MAXIMUM OF 5' FROM BACK OF SIDEWALK(TYP) OR AT A LOCATION DETERMINED BY THE WATER DISTRIBUTION CROSS CONNECTION PERSONNEL IN THE FIELD.
3. CONCRETE PAD SHALL BE CLASS B CONCRETE, 4" MINIMUM THICKNESS, REINFORCED WITH WELDED WIRE MESH.
4. WHERE SERVICE LINES SMALLER THAN 4" PASS UNDER A SIDEWALK, THEY SHALL BE INSTALLED IN A PVC CASING/SLEEVE AT LEAST 1" LARGER THAN THE SERVICE LINE AND EXTENDS AT LEAST 6" BEYOND THE EDGES OF THE SIDEWALK.
5. METAL PIPES EXPOSED TO SOIL OR CONCRETE SHALL BE COATED WITH 3M SCOTCHWRAP PIPE PRIMER AND WRAPPED WITH 3M SCOTCHWRAP 20ML NO.51 BLACK PVC TAPE(1/2"OVERLAP).
6. THE PORTION OF THE TRENCH FROM BACK OF METER TO THE DEVICE SHALL REMAIN OPEN UNTIL WATER DISTRIBUTION CROSS CONNECTION PERSONNEL HAVE INSPECTED AND APPROVED THE INSTALLATION. CALL 669-600-7322.
7. THE TESTING SIDE OF THE DEVICE SHALL HAVE A MINIMUM 24" OF CLEARANCE FROM OBSTRUCTIONS(NON-TRIMBLE LANDSCAPING, BUILDINGS, UTILITIES, ETC). MULTIPLE BACKFLOW DEVICES SHALL BE SEPARATED BY A MINIMUM OF 18" AND BE OF EQUAL HEIGHT.
8. BOLLARDS MAY BE REQUIRED BY CITY TO PROVIDE ADDITIONAL PROTECTION.
9. BACKFLOW ASSEMBLIES INSTALLED ON POTABLE WATER SERVICES SHALL BE LEAD FREE.
10. BACKFLOW ASSEMBLIES SHALL BE THE SAME SIZE OF THE WATER METER.
11. NO GALVANIZED PIPE OR DISIMILAR METAL PIPE MAY BE USED.
12. A BACKFLOW PREVENTER ENCLOSURE IS REQUIRED. SEE DETAIL 19B.
13. BACKFLOW PREVENTER IS TO BE PAINTED WITH GLOSS BLACK PAINT. NO BRASS IS TO BE PAINTED.

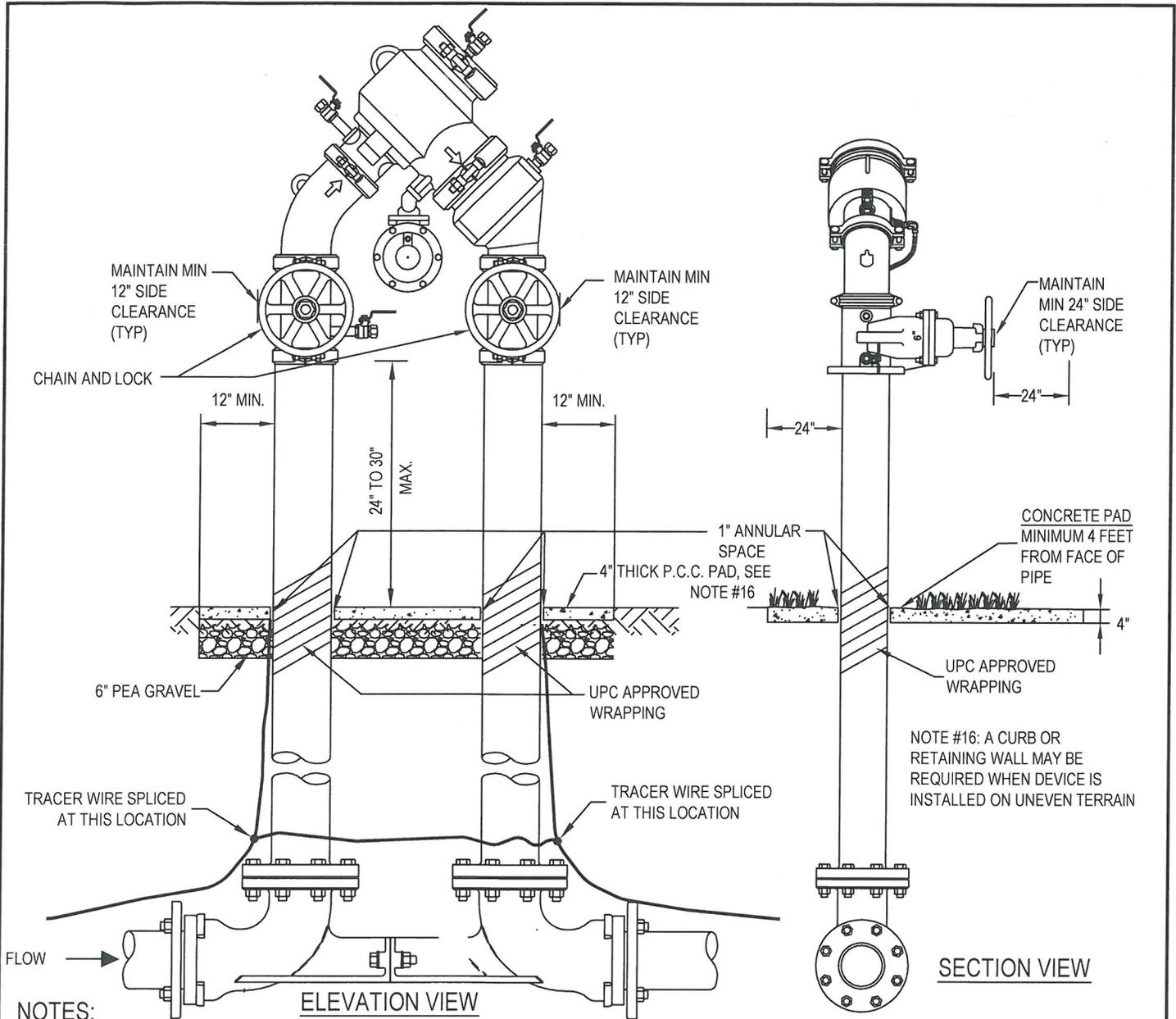
**BACKFLOW PREVENTION DEVICE
 SIZE UP TO 2"**



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NOTES:

1. REDUCED PRESSURE PRINCIPLE TYPE BACKFLOW DEVICES SHALL BE WILKINS, FEBCO APPROVAL EQUAL PER USC LIST OF APPROVED BACKFLOWS.
2. REDUCED PRESSURE PRINCIPLE TYPE BACKFLOW DEVICES SHALL BE REQUIRED FOR THE PROTECTION OF THE PUBLIC WATER SUPPLY. (NO DOUBLE CHECK VALVE ASSEMBLIES, SEE AIR GAP)
3. BACKFLOW DEVICES SHALL BE INSTALLED ADJACENT TO AND ON PROPERTY SIDE OF SIDEWALK WHERE APPLICABLE. THE ASSEMBLY SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE WATER METER AS APPROVED BY THE CITY'S CROSS CONNECTION PERSONNEL.
4. ALL DEVICES WILL HAVE RESILIENT SEATED SHUT - OFF VALVES. TEST COCKS WILL HAVE THREADED ENDS.
5. PRESS. DIFFERENTIAL VALVE OPENING TO BE 24" MINIMUM ABOVE GRADE
6. ALL PIPES AND SPOOLS SHALL BE DUCTILE IRON WITH NO EXCEPTIONS AND ALL JOINTS FLANGED.
7. ALL BOLTS/NUTS SHALL BE STAINLESS STEEL COMPONENTS WITH NO EXCEPTIONS.
8. ENTIRE ASSEMBLY (EXCLUDING I.D TAG) TO BE PAINTED WITH RESISTANT PAINT. (RUSTOLEUM, ETC.) GLOSS BLACK BRUSHED, NOT SPRAY.
9. DO NOT PAINT BRASS FITTINGS.
10. VALVE CONFIGURATION DECIDED ON JOB SITE.
11. ON SLOPING SURFACES, CONTRACTOR SHALL INSTALL A CONCRETE CURB/ WALL OR EQUIVALENT AROUND THE BACKFLOW.
12. THE PORTION OF THE TRENCH FROM BACK OF METER SHALL REMAIN OPEN UNTIL WATER DISTRIBUTION PERSONNEL HAVE INSPECTED AND APPROVED THE INSTALLATION, CALL 669-600-7322.
13. THE VALVE HANDWHEELS SHALL BE DOUBLE-LOCKED USING GALVANIZED STRAIGHT LINK CHAIN THAT LOCKS THE VALVE HANDWHEELS IN THE OPEN POSITION AND EITHER LOCK WILL RELEASE THE CHAIN.
14. BACKFLOW DEVICES SHALL BE LEAD FREE.
15. BACKFLOW ASSEMBLIES SHALL BE THE SAME SIZE AS THE METER.

**VERTICAL ORIENTATION DOMESTIC RP
ASSEMBLY BACKFLOW PREVENTION
DEVICESIZE 2½" AND LARGER**

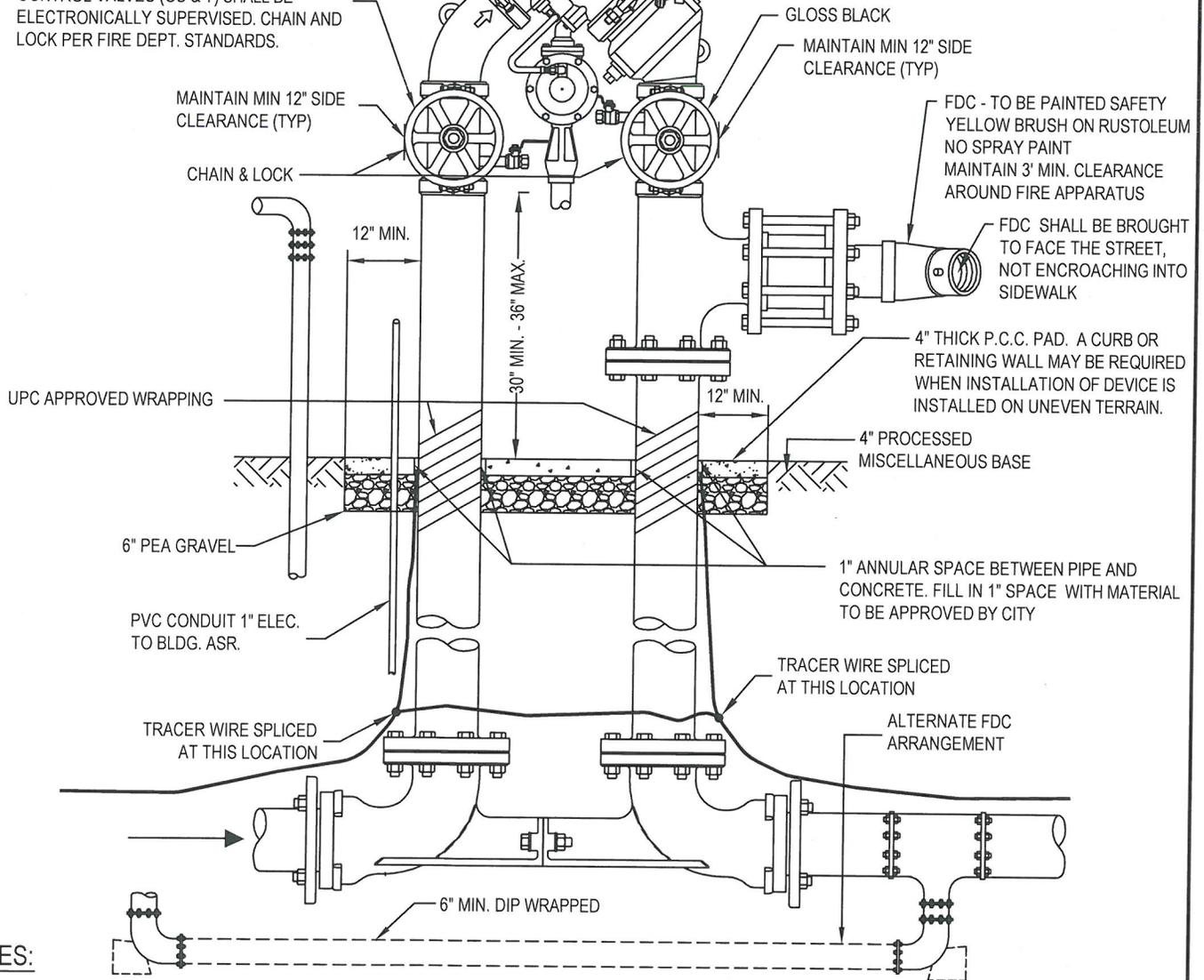


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SHUT OFF VALVES (RESILIENT SEATED), ALL CONTROL VALVES (OS & Y) SHALL BE ELECTRONICALLY SUPERVISED. CHAIN AND LOCK PER FIRE DEPT. STANDARDS.



NOTES:

1. REDUCED PRESSURE DETECTOR ASSEMBLY SHALL BE WILKINS 475DA OR PRIOR APPROVED EQUAL (RPDA REQUIRED IF CHEMICALS ARE INTRODUCED TO SYSTEM).
2. ENTIRE BODY OF DEVICE (EXCLUDING I.D. TAG) TO BE PAINTED WITH TWO COATS OF #6 GLOSS BLACK RUSTOLEUM (NO SPRAY) BLACK UV AND WEATHER RESISTANT PAINT (RUSTOLEUM, ETC.), NO BRASS PARTS ARE TO BE PAINTED.
3. FDC TO BE PAINTED SAFETY YELLOW AND REMAIN VISIBLE AND ACCESSIBLE.
4. ALL PIPES AND SPOOLS SHALL BE DUCTILE IRON WITH NO EXCEPTIONS AND ALL JOINTS FLANGED. DIP TO BE PROTECTED WRAP CA-1200 POLYGUARD CA-14 MASTIC OR APPROVED EQUAL.
5. ALL TRIM HARDWARE TO BE BRASS OR BRONZE WITH NO EXCEPTIONS.
6. RADIO READ METER FEE TO BE PAID AT TIME OF PERMIT APPLICATION (METER TO BE INSTALLED BY CITY).
7. UNDERGROUND FITTINGS TO BE FUSION EPOXY COATED, CONNECTIONS TO BE FLANGED OR MEGALUG WITH FLUOROPOLYMER (TRIPAC) COATED BOLTS AND NUTS OR 316 STAINLESS STEEL BOLTS AND NUTS OR A COMBINATION OF THE TWO.
8. FOR SECTION VIEW PLEASE SEE 20B.
9. THE PORTION OF THE TRENCH FROM BACK OF METER SHALL REMAIN OPEN UNTIL WATER DISTRIBUTION PERSONNEL HAVE INSPECTED AND APPROVED THE INSTALLATION, CALL 669-600-7322.
10. BACKFLOW DEVICES SHALL BE LEAD FREE.

FIRE SERVICE - REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA)



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