CONSTRUCTION NOTES

1. APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY WITH SPRING LOADED CHECK VALVES & INTEGRAL DIAPHRAGM ACTUATED RELIEF VALVE. REFER TO UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION AND HYDRAULIC RESEARCH APPROVED LIST (WWW.USC.EDU/DEPT/FCCCHR/LIST.HTML).
2. 90° BEND, FE x FE, CEMENT LINE DI.
3. RESILIENT WEDGE GATE VALVE.
4. DIP MORTAR LINED SPOOL PIECE (FE).
5. 150 LB. ANSI RATED FLANGE, FABRICATED INTEGRALLY WITH SPOOL OR SPINDLE PIECE. THREADED FLANGES EXCEPTED.
6. 6" THICK CONCRETE SLAB, REINFORCED WITH W1.4 x W1.4 WELD WIRE MESH. CONCRETE SHALL BE C-560-3250 MIX.
7. 90° BEND, CEMENT LINED DI, FE x FE x MJ ENDS W/RETEINER GLANDS.
9. CONSUMER PIPING. AWWA APPROVED POTABLE WATER PIPE MATERIAL. C-900 PVC CLASS 200.
10. ADJUSTABLE PIPE SUPPORT PER STD 521.
11. AIR GAP RELIEF VALVE DRAIN PORT TO ATMOSPHERE, OUTLET MUST BE AT LEAST 12" ABOVE THE VALVE ASSEMBLY SLAB.
12. DIAPHRAGM ACTUATED, SPRING LOADED, DOUBLE SEATED RELIEF VALVE SET TO SENSE AND AT LEAST A 2 PSI PRESSURE DIFFERENTIAL BETWEEN THE CHECK VALVES.
13. BRONZE BODY, TEST VALVES. RUBBER SEATED BALL VALVE SHUTOFF WITH LEVER.
14. INSTALL THRUST BLOCK PER STD 516-A.
15. FE x MJ ADAPTER WITH RETAINER GLAND.

GENERAL NOTES

1. ALL ABOVE GRADE PIPING SHALL BE PAINTED WITH AN ALKYD ENAMEL PAINT SYSTEM CONSISTING OF A 2 MIL PRIMER CAT AND TWO (2) CAT OF 2 MILS (EACH) HIGH GLOSS ENAMEL. COLOR SHALL BE WHITE, BLUE, RED, OR GREEN, AS REQUIRED BY THE CITY.
2. ALL BELOW GRADE DUCTILE IRON FITTINGS SHALL BE C-110. ALL BELOW GRADE DUCTILE IRON PIPE AND FITTINGS SHALL BE ENCASED IN ACCORDANCE WITH AWWA STANDARDS IN AN 8 MIL POLYETHYLENE WRAP.
3. ALL FLANGE BOLTS SHALL BE MANUFACTURED FORM TYPE 316 STAINLESS STEEL. MECHANICAL JOINT CONNECTIONS SHALL BE MADE WITH EITHER MALLEABLE IRON OR SELF-WEATHERING CORROSION STEEL.
4. DOUBLE CHECK BACKFLOW ASSEMBLY SUBSTITUTION SHALL REQUIRE SPECIAL WRITTEN PERMISSION FROM THE UTILITIES DEPARTMENT.

FORMER CITY STANDARD PLAN NUMBER (2004 EDITION): STD 520-L

CITY OF NEWPORT BEACH DEPARTMENT OF PUBLIC WORKS

3" AND LARGER REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY

STANDARD DRAWING NO. 519-C

SHEET 1 OF 1