



FOR TIE-IN CONNECTIONS ON EXISTING MAIN S.W.D. SHALL DIRECT AND APPROVE EITHER DIP TEE OR HOT-TAP OUTLET METHOD (SIZE-ON-SIZE HOT-TAP NOT ALLOWED). LONG BODY TAPPING SLEEVE REQUIRED. INSTALL ISOLATION VALVE, PIPE AND FITTINGS PER S.W.D. STANDARDS.

NOTE - NO TAPS OR CONNECTIONS ALLOWED BETWEEN WATER MAIN AND BACKFLOW DEVICE

S.W.D. RESPONSIBILITY  
PROPERTY LINE  
PRIVATE RESPONSIBILITY

NOTE - THIS DETAIL IS FOR 3-IN AND LARGER INSTALLATIONS WHERE WATER SUPPLY IS ONLY FOR LIFE-SAFETY, EMERGENCY, FIRE, OR OTHER SIMILAR 'STANDBY' CONNECTION CONDITIONS WHERE WATER FLOW WILL NOT NORMALLY OCCUR AND A FIRE DEPARTMENT CONNECTION (FDC) IS NOT REQUIRED. FOR SERVICE CONNECTIONS WHERE WATER SUPPLY WILL FLOW AND BE NORMALLY IN USE REFERENCE DETAIL SHT 22. FOR RESIDENTIAL FIRE SPRINKLER SERVICE CONNECTIONS REFERENCE SHT 4.

APPROVED FOR S.W.D.

# BACKFLOW PREVENTION DEVICE WITHOUT FIRE DEPT. CONNECTION



SAN JUAN WATER DISTRICT

NO	DATE	REVISIONS	APP	BY

**NOTES:**

1. PIPE AND FITTINGS SHALL BE PRESSURE CL-350 DUCTILE IRON PIPE. ALL UNDERGROUND DIP PIPE & FITTINGS SHALL BE POLY-WRAPPED PER AWWA C105.
2. ALL JOINTS SHALL BE MECHANICALLY RESTRAINED. USE FIB X FIB FITTINGS OR FIB X MJ FITTINGS WITH E844 MEGALUG OR APPROVED EQUIVALENT.
3. OS & Y RESILIENT SEAT, AWWA, VALVES.
4. PROVIDE A MIN. OF 3/8" NON-CASE HARDENED CHAIN W/LOCK BETWEEN VALVES.
5. DISTRICT APPROVED REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) TYPE BACKFLOW PREVENTION DEVICE (FEBSD 826YD, WILKINS 975DA, OR DISTRICT APPROVED EQUIVALENT). IN SOME NON-PVS-HEALTH-HAZARD AND NON-FIRE SYSTEM SUPPLY CASES, AND WITH PRIOR DISTRICT WRITTEN APPROVAL, THE DISTRICT MAY ALLOW AN APPROVED DOUBLE CHECK DETECTOR CHECK (DCCD) TYPE BACKFLOW PREVENTION DEVICE (WILKINS 950DA, FERROD 856, OR DISTRICT APPROVED EQUIVALENT). THE DISTRICT SHALL DETERMINE THE HAZARD CONDITION FOR EACH CONNECTION AND SHALL HAVE FINAL APPROVAL OF THE DCDA OR RPDA DEVICE ALLOWED.
6. FABRICATED PIPE SUPPORTS (PHD MANUFACTURING MODEL 875 WITH 871 STAND, PLACER WATERWORKS SLS-S SADDLE WITH STAND, OR DISTRICT APPROVED EQUIVALENT), ANCHOR BOLTED TO SLAB PER MANUFACTURER'S RECOMMENDATIONS.
7. PROVIDE CONCRETE THRUST BLOCKS PER S.W.D. STANDARDS (SEE SHEET 12).
8. DETECTOR METER AND BYPASS RPP BACKFLOW PREVENTER (PLASTIC BOTTOM CASE TYPE RECOMMENDED TO PROTECT DEVICE FROM FREEZE CONDITION DAMAGE). METER TO READ IN CUBIC FEET, INSTANTANEOUS READ WITH TOTALIZER.
9. INSTALL SCH 80 DR C900 PVC SLEEVE TO PROVIDE 1/4" ANNULAR GAP AT ALL PIPE PENETRATIONS.
10. ANY DEVIATION FROM DESIGN SHALL BE APPROVED IN WRITING PRIOR TO PROJECT APPROVAL BY S.W.D.
11. INSULATE ENTIRE ABOVE GROUND ASSEMBLY WITH FREEZE PROTECTION INSULATION BLANKET, CORRECTLY SIZED TO FIT INSTALLATION (WEATHERGUARD 'WG', TCRISTY 'TRSC', OR DISTRICT APPROVED EQUIVALENT).
12. BACKFLOW TESTING BY A SAN JUAN WATER DISTRICT CERTIFIED TESTER IS REQUIRED AT TIME OF WATER SERVICE ACTIVATION (TURN ON), AND ANNUALLY THEREAFTER.

ROB WATSON, P.E. - ENGINEERING SERVICES MANAGER  
SCALE: PRINT DATE: 09/13/10 DETAIL NO: SHT 25 OF 27