

NOTES:

1. ALL (BPD) BACKFLOW PREVENTION DEVICES SHALL BE LEAD-FREE, REDUCED PRESSURE PRINCIPLE(RPP). ALL BPD'S SHALL BE APPROVED BY THE (AWWA) AMERICAN WATER WORKS ASSOCIATION AND INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS (IAPMO) AND BE ON THE MOST CURRENT LIST OF BPD'S AT TIME OF INSTALLATION. ENTIRE ASSEMBLIES, GATE VALVES, TEST COCKS, AND BYPASS METER SHALL BE PROVIDED AS A COMPLETE UNIT.
2. TEST COCKS FOR BACKFLOW PREVENTERS SHALL BE PROVIDED WITH 3/8" MALE FLARE AND CAP.
3. BACKFLOW PREVENTERS SHALL BE SUPPORTED BY 2" DIAMETER GALVANIZED STEEL PIPE SADDLE SUPPORTS WITH FLANGE ADAPTERS BOLTED TO CONCRETE PAD. PRIME AND PAINT THE ASSEMBLY WITH COLOR MATCHING THE BACKFLOW PREVENTER. BEFORE PRIMING, TREAT PIPE SURFACE FOR OILS AND OXIDES OF ZINC.
4. ALL RPP BPDs SHALL CONFORM TO THOSE DEVICES INCLUDED ON THE MOST CURRENT AND UPDATE AWWA AND IAPMO LIST OF SUCH APPROVED BY THE CALIFORNIA DHS (DEPARTMENT OF HEALTH SERVICES) APPROVED LIST FOR BPD'S.
5. NO TEES OR OTHER CONNECTIONS SHALL BE PERMITTED BETWEEN THE PUBLIC WATER SUPPLY LINE AND APPROVED BPD. ALL BPD'S SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE WATER MAIN.
6. OUTSIDE STEM AND YOKE (O. S & Y.) GATE VALVES REQUIRED ON FIRE SERVICE (U. L. LISTED) RATED TO BE AT 175 P. S. I. WORKING PRESSURE AND 350 P. S. I. HYDROSTATIC TEST PRESSURE HAND WHEELS ON O. S. & Y. VALVES SHALL BE CHAINED AND LOCKED. USE 3/8" GALVANIZED CHAIN AND LOCK BETWEEN VALVES. CHAIN SHALL BE DOUBLE LOCKED, ONE LOCK WILL BE SUPPLIED BY THE CITY OF HOLLISTER.
7. THRUST BLOCK SHALL BE CLASS 520-C-2500 PCC.
8. ASSEMBLY SHALL BE PROTECTED BY 4"Ø BALLARDS WHEN LOCATED NEAR TRAFFIC OR AS DIRECTED BY THE CITY ENGINEER.
9. AIR RELEASE VALVE SHALL BE APCO NO. 50, 1/2" FOR 4" TO 6" SERVICE AND 3/4" FOR 8" TO 12" SERVICES.
10. DEVICE MUST BE ACCESSIBLE FOR TESTING AND MAINTENANCE.
11. ALL ASSEMBLIES SHALL BE PROTECTED BY AN ENCLOSURE. SEE STANDARD PLAN B-4-3.
12. ALL PIPE SHALL BE DUCTILE IRON PIPE (DIP) AND ALL FITTINGS SHALL BE FLANGE TYPE.
13. A CERTIFIED BACKFLOW PREVENTION ASSEMBLY GENERAL TESTER ACCREDITED BY CALIFORNIA - NEVADA AWWA SHALL INSPECT BPD. LIST OF CERTIFIED TESTERS WILL BE PROVIDED BY THE CITY OF HOLLISTER UTILITY DIVISION. THE BPD'S SHALL BE INSPECTED AND APPROVED BY THE TESTER PRIOR THE UTILITY DIVISION PROVIDING POTABLE WATER BEYOND THE METER PROVIDE TEST REPORT EVERY YEAR AND FORWARD TO FIRE DEPARTMENT AND UTILITY DEPARTMENT.
14. TEST BACKFLOW PREVENTION DEVICE AND PROVIDE CERTIFICATE PRIOR TO ACCEPTANCE BY THE CITY.
15. ALL FITTINGS BELOW GRADE SHALL BE WRAPPED WITH 10 MIL. MINIMUM POLYETHYLENE SHEET.
16. ALL BOLTS SHALL BE TORQUED PER MANUFACTURER'S RECOMMENDATIONS. TORQUE TESTING SHALL BE VERIFIED BY SPECIAL INSPECTION.

TITLE: **BACKFLOW PREVENTION DEVICE FOR FIRE PROTECTION SYSTEM**

DRAWN BY: STAFF	SCALE: NONE
REVIEWED BY: DANNY HILLSTOCK	REVISED: OCTOBER, 2019

APPROVED:

*Danny Hillstock* 11-5-19

CITY ENGINEER: DANNY HILLSTOCK LIC. NO. 70847

DATE

STANDARD PLAN

**B-4-2**

SHEET 2 OF 3

CITY OF HOLLISTER  
ENGINEERING DEPARTMENT