

## **LEGEND**

- ① FINISHED GRADE.
- ② SERVICE SIZE UP TO 2" SHALL BE COPPER PIPE. SERVICE SIZE GREATER THAN 2" SHALL BE DUCTILE IRON PIPE.
- ③ REDUCED PRESSURE BACKFLOW PREVENTER LF FEBCO 825Y (OR APPROVED EQUAL) FOR SIZES 1" TO 2" AND LF FEBCO 825 YD (OR APPROVED EQUAL) FOR SIZES 2 1/2" TO 4".
- ④ ADJUSTABLE PIPE SADDLE SUPPORT, GALVANIZED STEEL, SUITABLE FOR SUPPORTING GENERAL PIPING 4" AND LARGER, FROM FLOOR (12" MIN. AND 18" MAX. DISTANCE FROM BOTTOM OF DEVICE TO FLOOR).
- ⑤ 6" CONCRETE ENCLOSURE PAD, SIZE AS SHOWN ON THE PLAN.
- ⑥ SERVICE SIZE COPPER/DUCTILE IRON RISER WITH A MINIMUM OF TWO (2) UNIONS FOR THREADED CONNECTIONS. SEE NOTE 2.
- ⑦ 90° ELBOW, FLANGED OR THREADED.
- ⑧ CONCRETE THRUST BLOCK (SEE DETAIL W-17 FOR MINIMUM THRUST BLOCK DIMENSIONS.)
- ⑨ WATER SERVICE BY OTHERS PER DTL. W-1
- ⑩ DOUBLE DETECTOR CHECK VALVE ASSEMBLY TO BE LF FEBCO 806 YD OR APPROVED EQUAL
- ⑪ VALVES TO BE MUELLER O.S. & Y.A-2473-6 OR APPROVED EQUAL, CHAINED AND LOCKED WITH "KNOX BOX" TYPE LOCK, AND TAMPER SWITCH.
- ⑫ ALL PIPE SHALL BE DUCTILE IRON PIPE (D.I.P), AND ALL FITTINGS SHALL BE FLANGED.
- ⑬ FIRE DEPARTMENT CONNECTION, F.D.C., SHALL BE 4" RISER X 2.5" X 2.5" SIAMESE CONNECTIONS AND STRAIGHT WAY CHECK VALVE, ("KWIK-CHECK" OR APPROVED EQUAL), WITH METAL CAPS. WHEN THE F.D.C. SERVES ON-SITE FIRE HYDRANTS, THE ASSEMBLY SHALL BE 6" MINIMUM (RISER) x 2.5" x 2.5" x 2.5" x 2.5" (CONNECTIONS). LOCATION OF F.D.C. RISER TO BE NO MORE THAN 40' FROM THE NEAREST FIRE HYDRANT. CONTRACTOR MAY BE REQUIRED TO INSTALL A NEW HYDRANT IF THE ABOVE REQUIREMENT CANNOT BE MET. LOCATION OF BYPASS CONNECTION SHALL BE MADE BEHIND THE THE DEVICE (DOWN-STREAM SIDE).
- ⑭ TYPE OF PIPE FROM THIS POINT INWARD, PER APPROVED PLAN.

## **NOTES:**

1. GATE VALVES AND TEST COCKS ARE REQUIRED.
2. WATER SUPPLY- NO CONNECTIONS OR TEES WILL BE ALLOWED BETWEEN THE WATER METER AND BACKFLOW UNIT.
3. PROTECTION FROM FREEZE DAMAGE MAY BE REQUIRED IN EXPOSED AREAS.
4. DEVICE MUST BE ACCESSIBLE FOR TESTING AND MAINTENANCE.
5. WRAP BURIED GALVANIZED PIPE WITH 10 MIL PVC TAPE.
6. ASSEMBLY MUST BE TESTED BY A TESTER APPROVED BY THE CITY OF MORGAN HILL. THE CITY APPROVED TESTER LIST CAN BE OBTAINED BY CALLING 408-776-7333.
7. ASSEMBLY MUST BE LOCATED ABOVE GROUND AND DIRECTLY BEHIND WATER METER(NO GREATER THEN 5') AS SHOWN ON DTL W-6 ,W-7 AND W-8.
8. ADDITIONAL INFORMATION MAY BE OBTAINED FROM M.H. ORDINANCE 647 NEW SERIES, ADOPTED OCT, 1993
9. ALL DEVICES MUST BE APPROVED BY THE "FOUNDATION FOR CROSS CONNECTION AND HYDRAULIC RESEARCH".
10. REFER TO DETAIL L-10
11. CONTRACTOR SHOULD NOT REMOVE TAG FROM BACKFLOW DEVICE INSTALLATION UNTIL AFTER INSPECTION.



**City of Morgan Hill**  
**Public Works Department**

  
CITY ENGINEER

4/1/96  
DATE

3/06/23  
REVISED

## **BACKFLOW PREVENTION LEGEND & NOTES**

DRAWING  
NO.

**W-10**