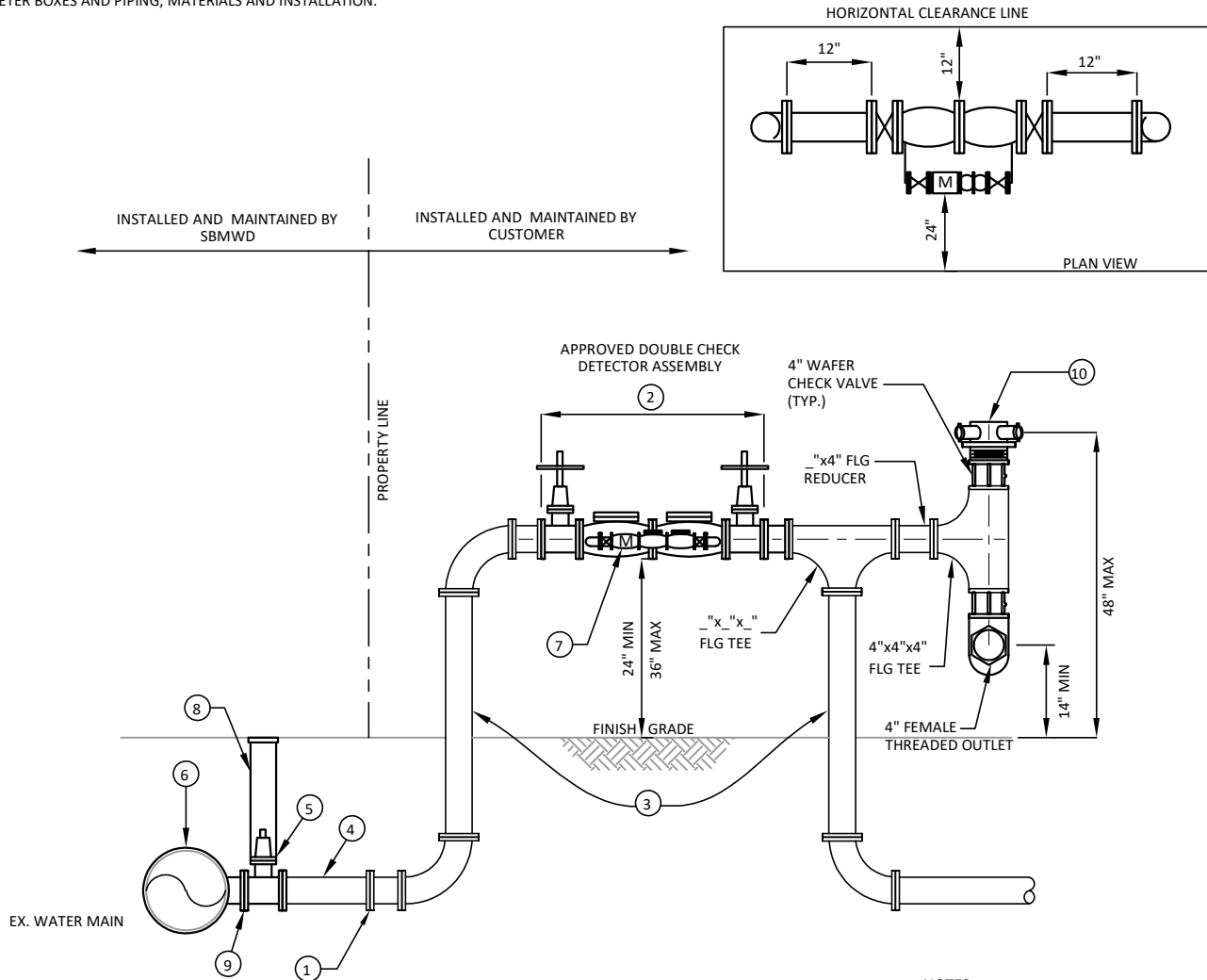


REFERENCE ENGINEERING SPECIFICATIONS; WATER SERVICE ASSEMBLIES: 404211 FOR METER, METER BOXES AND PIPING; MATERIALS AND INSTALLATION.



NOTES:

- ① SBMWD WILL INSTALL BLIND FLANGE AT CONNECTION POINT/PROPERTY LINE.
- ② THE DETECTOR ASSEMBLY SHALL BE INSPECTED AND APPROVED BY SBMWD IMMEDIATELY AFTER INSTALLATION. THE ASSEMBLY MUST BE TESTED BY A CERTIFIED BACKFLOW TESTER.
- ③ 2 EA ___" SCH. 40 STEEL OR DUCTILE IRON PIPE SPOOLS (RESTRAINED)
- ④ ___LF ___" PRESSURE CLASS 350 DUCTILE IRON (RESTRAINED) SEE SBMWD SPECIFICATIONS FOR BACKFILL REQUIREMENTS
- ⑤ 1 EA ___" FLANGE BY M.J. GATE VALVE ASSEMBLY PER SBMWD STD. DWG. W3.1
- ⑥ 1 EA EPOXY COATED TAPPING SLEEVE, MJ TAPPING SLEEVE, WELD NOZZLE, OR MJxFLG TEE ___" O.D. MAIN WITH ___" SERVICE LATERAL
- ⑦ 1 EA BY-PASS METER THAT IS APPROVED BY THE DOUBLE CHECK DETECTOR ASSEMBLY MANUFACTURER SHALL BE FACTORY INSTALLED AND THE ACCOMPANYING FACTORY METER CERTIFICATE SHALL BE PROVIDED TO THE DEPARTMENT.
- ⑧ 1 EA VALVE CAN ASSEMBLY PER SBMWD STD. DWG. W3.3
- ⑨ 1 EA PIPELINE SEAL AND INSULATOR, INC INSULATING KIT TO BE USED BETWEEN THE TAPPING SADDLE AND VALVE WHEN DISSIMILAR METALS (DUCTILE IRON AND STEEL) ARE INVOLVED
- ⑩ 1 EA FIRE DEPARTMENT CONNECTION (FDC), SIZE, ORIENTATION, AND PROTECTIVE ENCLOSURE OR PROTECTIVE DEVICES SHALL BE COORDINATED, INSPECTED, AND APPROVED BY THE FIRE DEPARTMENT UPON INSTALLATION (909-384-5388).

NOTES:

1. ANY BACKFLOW RELATED INSTALLATION AND/OR REPLACEMENT, INCLUDING PARTS, SHALL ADHERE TO THE MOST CURRENT UNIVERSITY OF SOUTHERN CALIFORNIA (USC) FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH STANDARDS.
2. SWAB INTERIOR OF PIPE, VALVES, AND FITTINGS, AND SWAB INTERIOR OF EXISTING MAINS TO WHICH NEW PIPING WILL BE CONNECTED (BOTH UPSTREAM AND DOWNSTREAM OF THE NEW BACKFLOW ASSEMBLY) WITH A 5% SODIUM HYPOCHLORITE SOLUTION. AFTER DISINFECTION, FLUSH WITH POTABLE WATER AGAIN UNTIL WATER IS FREE OF CHLORINE ODOR.
3. IF GIVEN A WAIVER TO INSTALL A BACKFLOW ASSEMBLY A CERTAIN DISTANCE FROM THE METER, THEN THE PIPING SHALL BE EXPOSED FROM THE SERVICE METER TO THE BACKFLOW ASSEMBLY WITH NO TEES OR CONNECTIONS, AND ENCASED IN A TWO SACK SLURRY MIX. THE WORK SHALL BE WITNESSED AND APPROVED BY WATER QUALITY CROSS-CONNECTION CONTROL.

REVISION DATE: 5/24/2016

D.D.M.	MAY 16	SAN BERNARDINO MUNICIPAL WATER DEPARTMENT		DRAWING NUMBER
F.D.L.	APR. 13	4" THROUGH 10" DOUBLE CHECK DETECTOR CHECK VALVE ASSEMBLY		SBMWD
F.D.L.	DEC. 12			W4.3
F.D.L.	AUG. 12			
REVISION	DATE	APPROVED 		DATE 07/04/2019
SCALE:	NONE	WARREN HUANG, P.E. RCE 49208		