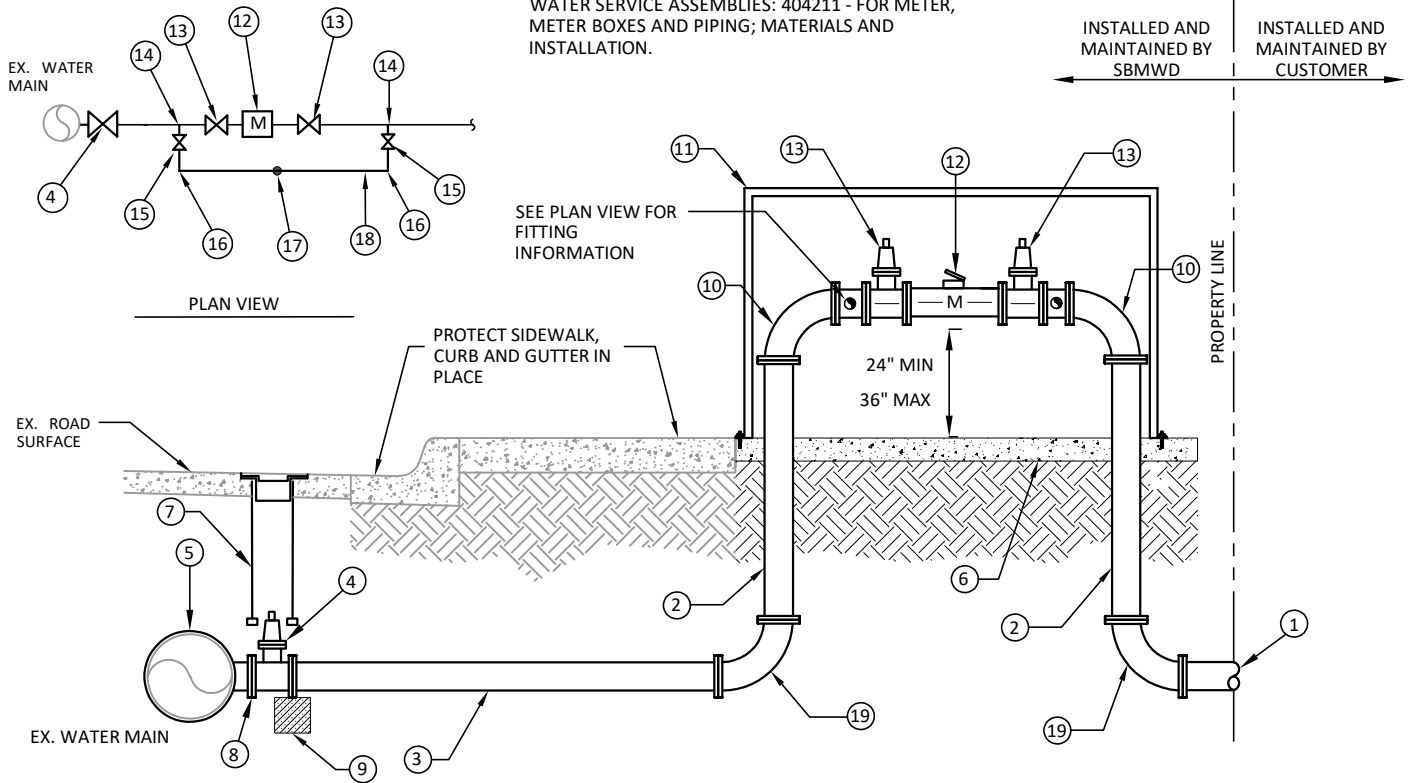


REFERENCE ENGINEERING SPECIFICATIONS;
WATER SERVICE ASSEMBLIES: 404211 - FOR METER,
METER BOXES AND PIPING; MATERIALS AND
INSTALLATION.



NOTES:

- ① 1 EA CONNECT TO EXISTING CUSTOMER'S WATER SYSTEM OR INSTALL BLIND FLANGE OR CAP AT CONNECTION POINT/PROPERTY LINE.
- ② 2 EA " DUCTILE IRON PIPE SPOOLS (RESTRAINED) OR WELDED SCHEDULE 40 BLACK PIPE SPOOLS.
- ③ _LF " PRESSURE CLASS 350 DUCTILE IRON (RESTRAINED) SEE SBMWD SPECIFICATIONS FOR BACKFILL REQUIREMENTS.
- ④ 1 EA " GATE VALVE ASSEMBLY PER SBMWD STD. DWG. W3.1 (FLG X MJ)
- ⑤ 1 EA EPOXY COATED TAPPING SLEEVE, MJ TAPPING SLEEVE, WELD NOZZLE, OR (MJ X FLG) TEE " O.D. MAIN WITH " SERVICE LATERAL.
- ⑥ 1 EA 2,000 PSI CONCRETE: ' X ' X 10" DEEP CONCRETE PAD (FORMED).
- ⑦ 1 EA VALVE CAN ASSEMBLY PER SBMWD STD. DWG. W3.3.
- ⑧ 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.
- ⑨ 1 EA 8" CONCRETE BLOCK SUPPORT.
- ⑩ 2 EA 90° BEND DUCTILE IRON (FLG) OR WELDED SCHEDULE 40 BLACK PIPE 90° SHORT RADIUS BEND (FLG)
- ⑪ 1 EA ' X ' X ' DOUBLE DOOR ACCESS HATCH PROTECTIVE STEEL CAGE, POWDER-COATED BLUE WITH 6" MINIMUM CLEARANCE ON ALL SIDES INSIDE THE CAGE AND BOLTED DOWN TO THE CONCRETE SURFACE.
- ⑫ 1 EA " ULTRASONIC WATER METER (MASTER METER, OCTAVE SERIES) WITH ITRON OR APPROVED EQUAL. (SEE SBMWD STD. DWG. W1.15 FOR APPROVED LIST).
- ⑬ 2 EA " RESILIENT WEDGE NRS GATE VALVE (FLG)
- ⑭ 2 EA " X " TEE (FLG X FLG) WITH 2" TAP OR WELDED SCHEDULE 40 SPOOL WITH 2" THREADOLET
- ⑮ 2 EA 2" CLOSE BRASS NIPPLE, LOCKING BALL VALVE AND CTI ADAPTER
- ⑯ 2 EA 2" 90° COMPRESSION BEND
- ⑰ 1 EA BRASS TEE WITH IRON PIPE TO COPPER ADAPTORS BUSH TO 3/4" WITH HOSE BIB
- ⑱ _LF HARD COPPER PIPE (US MANUFACTURER) 2" BY-PASS LOOP
- ⑲ 2 EA 90° BEND DUCTILE IRON (FLG X MJ)

GENERAL NOTES

1. SBMWD STANDARD DRAWING W1.7 SHALL BE CONSIDERED AND INSTALLED ON A CASE BY CASE BASIS AS DETERMINED BY SBMWD.
2. ABOVE GROUND DOMESTIC SERVICES SHALL BE INSTALLED AWAY FROM THE SIDEWALK AND SHALL NOT OBSTRUCT THE SIDEWALK'S TRAVELED CLEARANCE.
3. ABOVE GROUND DOMESTIC SERVICES SHALL BE WITHIN CITY RIGHT-OF-WAY OR WITHIN AN EASEMENT DEDICATED TO SBMWD.

REVISION DATE: 5/24/2016

		SAN BERNARDINO MUNICIPAL WATER DEPARTMENT		DRAWING NUMBER
D.D.M.	MAY 16	ABOVE-GROUND 4" AND LARGER DOMESTIC SERVICES		
F.D.L.	JAN. 16			
F.D.L.	JULY 15			
REVISION	DATE	APPROVED  DATE 07/04/2019		SBMWD W1.7
SCALE: NONE		WARREN HUANG, P.E. RCE 49208		