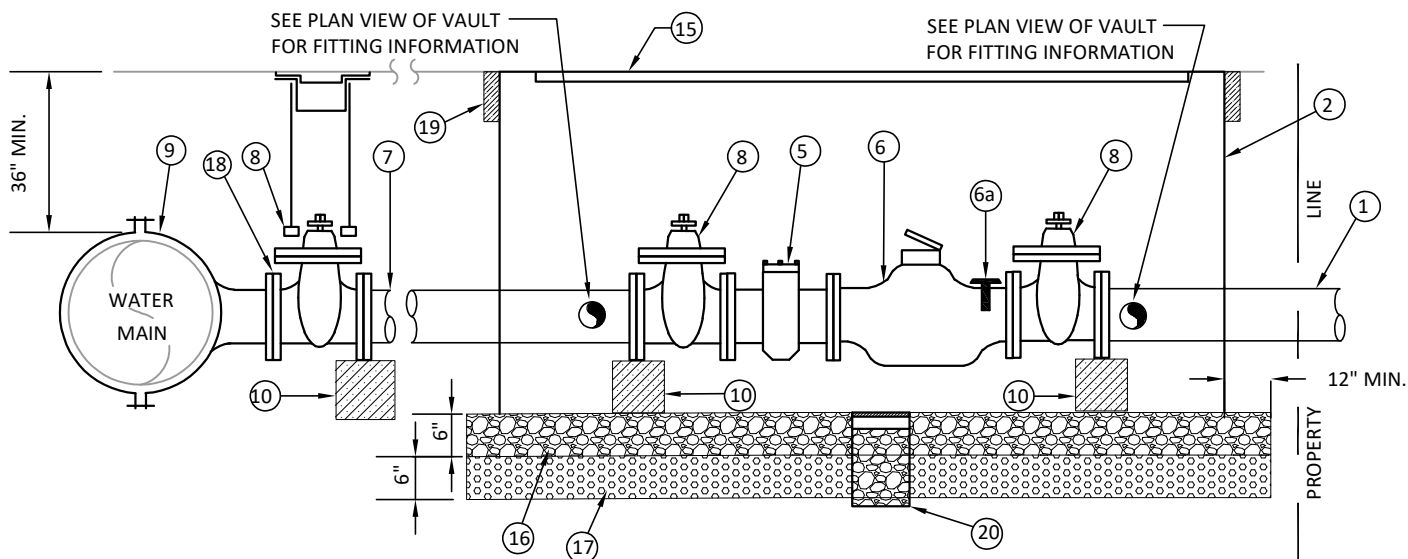
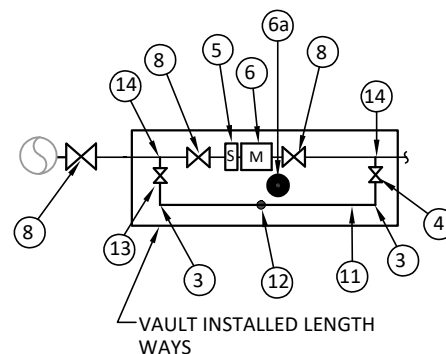




ITEM	QTY	DESCRIPTION
①	4 LF	___" STUB-OUT FOR SERVICE CONNECTION MATERIAL-PLAIN CUT DIP
②	1 EA	3'x5' CDR (WA10366048TA) OR PRE-CAST CONCRETE VAULT (LARGER VAULT MAY BE REQ'D.)
③	1 EA	2" 90° COMPRESSION BEND
④	1 EA	2" COMPRESSION CORP
⑤	1 EA	BADGER BRONZE DUAL FLANGE PLATE STRAINER OR EQUIVALENT
⑥	1 EA	___" WATER METER WITH TEST PORT, BALL VALVE, AND PLUG. (SEE SBMWD STD. DWG. W1.15 FOR APPROVED LIST)
⑥a	1 EA	SBMWD APPROVED METER AND TRANSMITTER ASSEMBLY, CURRENT ITRON USED BY DEPARTMENT OR APPROVED EQUAL. INSTALL MOUNTING PER MANUFACTURER'S SPECIFICATION (NEW TRACTS OR AS DIRECTED BY SBMWD ONLY).
⑦	___ LF	___" PRESSURE CLASS 350 DUCTILE IRON PIPE (RESTRAINED)
⑧	3 EA	___" FLANGE x MJ GATE VALVE ASSEMBLY PER SBMWD STD. DWG. W3.1 (RESTRAINED)
⑨	1 EA	EPOXY COATED TAPPING SLEEVE, MJ TAPPING SLEEVE, WELD NOZZLE, OR MJxFLG TEE ___" O.D. MAIN WITH ___" SERVICE LATERAL
⑩	3 EA	8" CONCRETE BLOCK SUPPORT
⑪	1 EA	HARD COPPER PIPE (US MANUFACTURER) 2" BYPASS LOOP - (SIZE TO BE HALF THAT OF THE SERVICE)
⑫	1 EA	BRASS TEE WITH IRON PIPE TO COPPER ADAPTORS BUSH TO 3/4" WITH HOSE BIB.
⑬	1 EA	2" CLOSE BRASS NIPPLE, LOCKING BALL VALVE AND CTI ADAPTER
⑭	2 EA	___" X ___" TAPPING SADDLE
⑮	1 EA	3' X 5' DOUBLE DOOR ACCESS HATCH PER SBMWD STD. DWG. W6.21
⑯	___	INSTALL MIN. 6" THICK 3/4" CRUSHED ROCK GRAVEL (NO FINES)
⑰	___	INSTALL 6" THICK BACKFILL (SE 30) OR BETTER, 95% COMPACTION.
⑱	1 EA	INSTALL 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.
⑲	___ LF	INSTALL 1/2" EXPANSION JOINT ON ALL FOUR SIDES
⑳	1 EA	SUMP AND SUMP GRATE DETAIL PER SBMWD STD. DWG. W6.30

INSTALLED AND
MAINTAINED
BY SBMWD

INSTALLED
AND
MAINTAINED
BY OTHERS



PLAN VIEW

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

REVISION DATE: 5/23/2016

D.D.M.	MAY 16	SAN BERNARDINO MUNICIPAL WATER DEPARTMENT		DRAWING NUMBER	
F.D.L.	JULY 14				
F.D.L.	JAN. 13	4" AND LARGER DOMESTIC SERVICES		SBMWD	
D.D.M.	JAN. 11				
REVISION	DATE				
SCALE: NONE		APPROVED		DATE	07/04/2019
		WARREN HUANG, P.E. RCE 49208			
				W1.5	