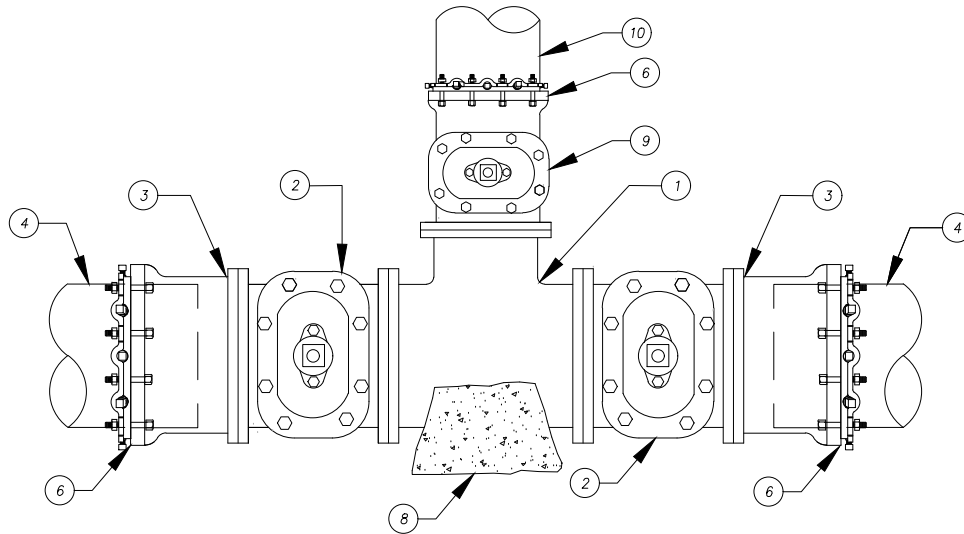
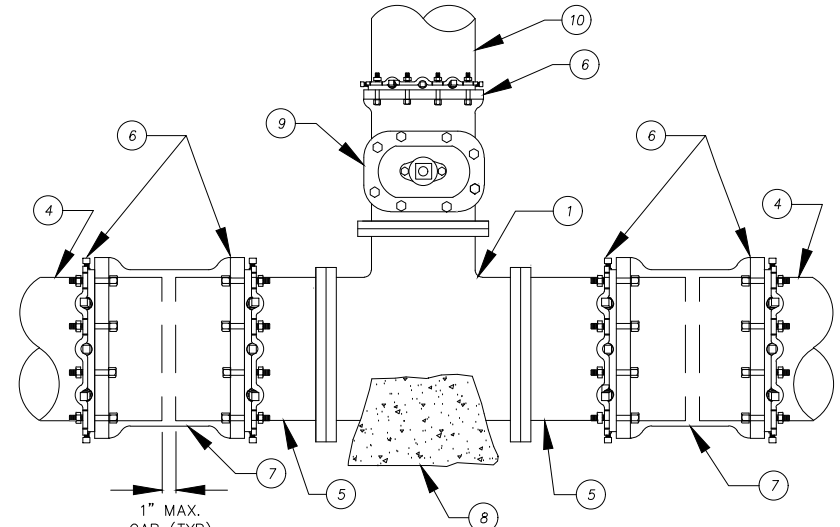


PVC WATER MAIN



WITH VALVES ON MAIN



WITHOUT VALVES ON MAIN

ITEM MATERIALS

- ① — DI TEE, FLG.
- ② — RW GATE VALVE FLG.
- ③ — DI FLANGED COUPLING ADAPTER WITH TYPE 316SS NUTS, BOLTS AND WASHERS (PVC BY DIP).
- ④ — EXISTING PVC MAIN LINE.
- ⑤ — DI, FLG x PE, CLASS 53 (MIN. LENGTH IS 24 INCHES).

ITEM MATERIALS


- ⑥ — MECHANICAL JOINT RETAINER GLAND WITH TYPE ASTM A242 "WEATHERING" STEEL T-BOLTS, NUTS AND WASHERS, EBAA IRON MEGA-LUG.
- ⑦ — SOLID DUCTILE IRON MECHANICAL JOINT SLEEVE.
- ⑧ — THRUST BLOCK PER CITY STD DWG 401.
- ⑨ — RW GATE VALVE FLG x M.J.
- ⑩ — DIP, PE, CLASS 350.

NOTE:

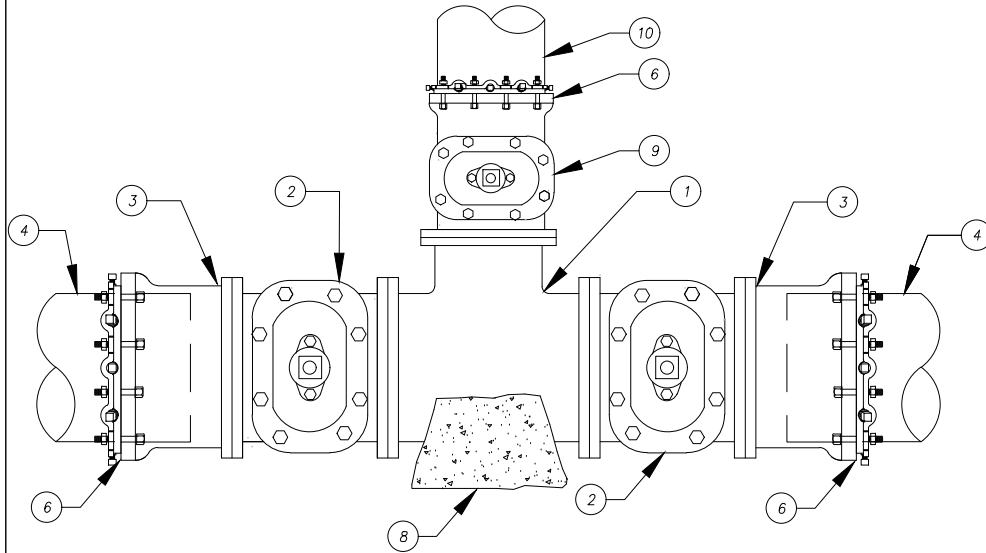
- 1. DOUBLE WRAP ALL METALLIC PARTS WITH 8 MIL POLYETHYLENE ENCASMENT PER AWWA C105.

NOT TO SCALE

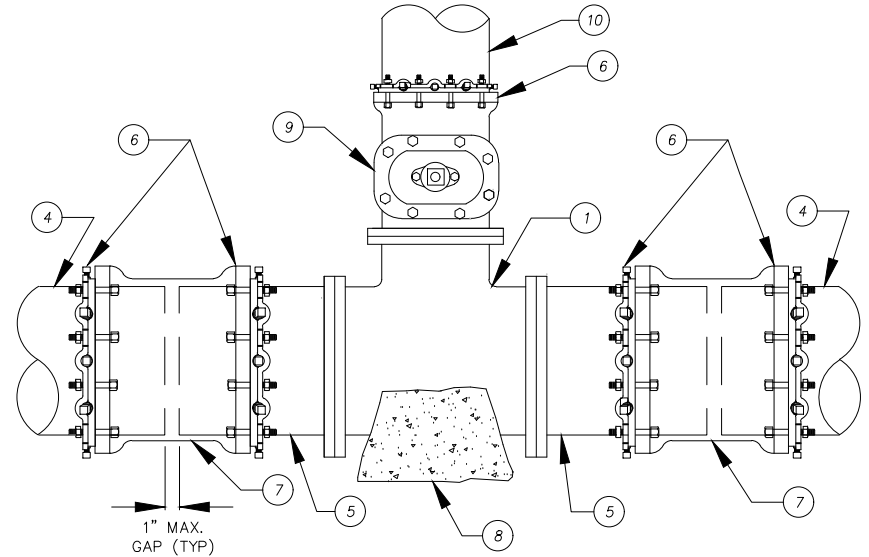
CUT-IN TEE

REVISION			APPROVED:		DATE	CITY OF CORONA
NO.	APPROVED	DATE				
1		04/22/14	<i>Tom Koper</i>		1/7/2019	 CITY OF CORONA STD 421
2	VRW	12/28/18	<i>Vernon R. Weisman</i>		1/7/2019	
			VERNON R. WEISMAN, PE. DISTRICT ENGINEER		DATE	SHEET 1 OF 4

DIP WATER MAIN



WITH VALVES ON MAIN



WITHOUT VALVES ON MAIN

ITEM MATERIALS

- ① — DI TEE, FLG.
- ② — RW GATE VALVE FLG.
- ③ — DI FLANGED RESTRAINED COUPLING WITH TYPE 316SS NUTS, BOLTS AND WASHERS.
- ④ — EXISTING DIP. MAINLINE.
- ⑤ — DIP, CLASS 53 (LENGTH = 24 INCHES).

NOTE:


- 1. DOUBLE WRAP ALL METALLIC PARTS WITH 8 MIL. POLYETHYLENE ENCASEMENT PER AWWA C105.

ITEM MATERIALS

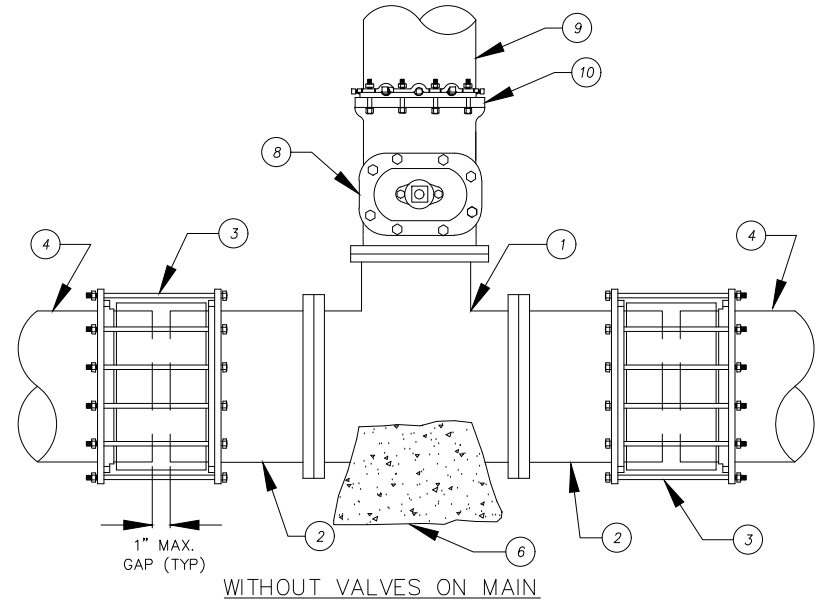
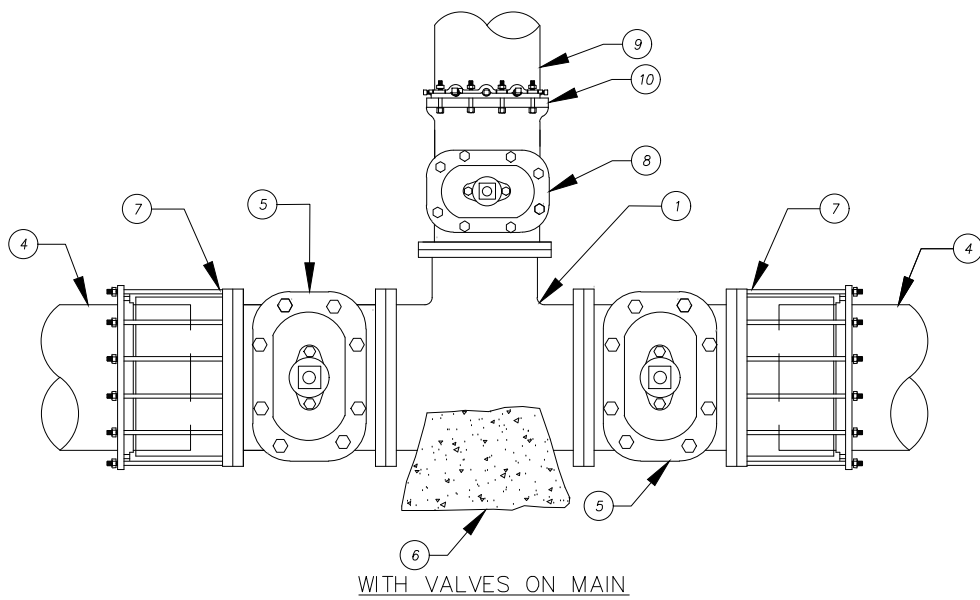
- ⑥ — MECHANICAL JOINT RETAINER GLAND WITH TYPE ASTM A242 "WEATHERING" STEEL T-BOLTS, NUTS AND WASHERS, EBAA IRON MEGA-LUG.
- ⑦ — SOLID DUCTILE IRON MECHANICAL JOINT SLEEVE.
- ⑧ — CONCRETE THRUST BLOCK PER CITY STD DWG 401.
- ⑨ — RW GATE VALVE FLG x M.J.
- ⑩ — DIP, PE, CLASS 350.

NOT TO SCALE

CUT-IN TEE

REVISION			APPROVED:		DATE	CITY OF CORONA
NO.	APPROVED	DATE				
1		04/22/14	<i>Tom Eger</i>	1/7/2019		 CITY OF CORONA STD 421
2	VRW	12/28/18	<i>Vernon R. Weisman</i>	1/7/2019		
			TOM G. KOPER, PE. CITY ENGINEER			SHEET 2 OF 4
			VERNON R. WEISMAN, PE. DISTRICT ENGINEER			

ASBESTOS CEMENT PIPE (ACP) WATER MAIN



ITEM MATERIALS

- ① — DI TEE, FLG.
- ② — DIP, FLG x PE, CLASS 53 (MIN. LENGTH IS 24 INCHES).
- ③ — PIPE COUPLING ADAPTER (ACP ROUGH BARREL BY DIP) WITH TYPE 316SS NUTS, BOLTS AND WASHERS (MIN. CENTER SLEEVE LENGTH OF 12 INCHES).
- ④ — EXISTING ACP MAIN LINE.
- ⑤ — RW GATE VALVE FLG.

NOTES:

1. REMOVE MACHINED-END FROM ACP AND CONNECT TO EXISTING ROUGH BARREL.
2. DOUBLE WRAP ALL METALLIC PARTS WITH 8 MIL. POLYETHYLENE ENCASEMENT PER AWWA C105.

ITEM MATERIALS

- ⑥ — CONCRETE THRUST BLOCK PER CITY STD DWG 401.
- ⑦ — FLANGED COUPLING ADAPTER WITH TYPE 316SS NUTS, BOLTS AND WASHERS.
- ⑧ — RW GATE VALVE FLG x MJ.
- ⑨ — DIP, PE, CLASS 350.
- ⑩ — MECHANICAL JOINT RETAINER GLAND WITH TYPE ASTM A242 "WEATHERING" STEEL T-BOLTS, NUTS AND WASHERS, EBAA IRON MEGALUG.

NOT TO SCALE

CUT-IN TEE

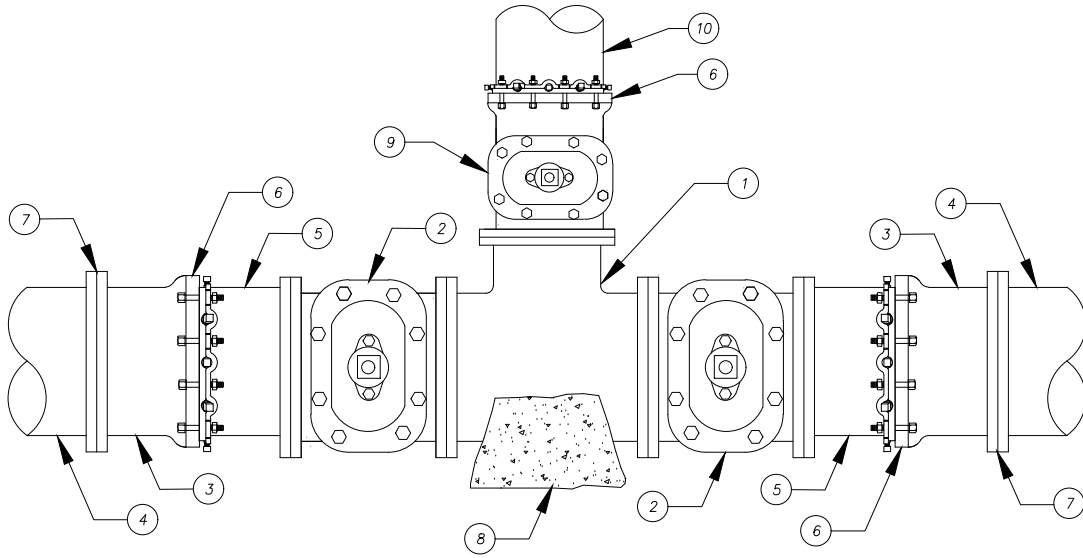
REVISION			APPROVED:		DATE	CITY OF CORONA
NO.	APPROVED	DATE				
1		04/22/14	<i>Tom Koper</i>	1/7/2019		
2	VRW	12/28/18	<i>Vernon R. Weisman</i>	1/7/2019		
			TOM G. KOOPER, PE, CITY ENGINEER			
			VERNON R. WEISMAN, PE, DISTRICT ENGINEER			



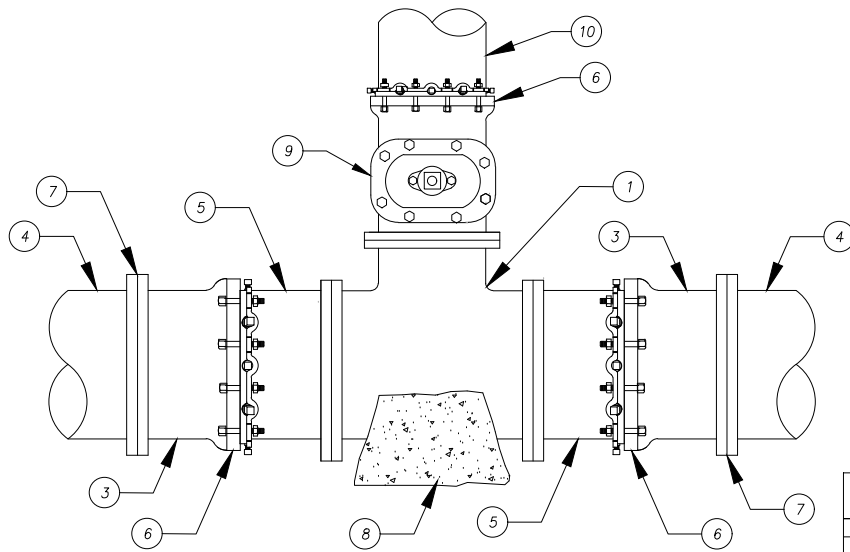
STD 421

SHEET 3 OF 4

CML&C STEEL WATER MAIN



WITH VALVES ON MAIN



WITHOUT VALVES ON MAIN

ITEM MATERIALS


- ① — DI TEE, FLG.
- ② — RW GATE VALVE FLG.
- ③ — DI FLANGED RESTRAINED COUPLING WITH TYPE 316SS NUTS, BOLTS AND WASHERS (CML&C STEEL BY DIP).
- ④ — EXISTING CML&C STEEL MAINLINE.
- ⑤ — DIP FLG x PL SPOOL, CLASS 53 (LENGTH = 24 INCHES). CEMENT MORTAR LINING AND ENCASED. SEE NOTE 1.
- ⑥ — MECHANICAL JOINT RETAINER GLAND WITH TYPE ASTM A242 "WEATHERING" STEEL T-BOLTS, NUTS AND WASHERS, EBAA IRON MEGA-LUG.
- ⑦ — FURNISH AND INSTALL FLANGE INSULATING KIT PER CITY STD DWG. 458. EPOXY COAT EXPOSED STEEL USING NSF 61 COMPLIANT EPOXY.
- ⑧ — CONCRETE THRUST BLOCK PER CITY STD DWG 401.
- ⑨ — RW GATE VALVE FLG x M.J.
- ⑩ — DIP, PE, CLASS 350.

NOTE:

- 1. DOUBLE WRAP ALL METALLIC PARTS WITH 8 MIL. POLYETHYLENE ENCASEMENT PER AWWA C105.

NOT TO SCALE

CUT-IN TEE

REVISION			APPROVED:		DATE	CITY OF CORONA
NO.	APPROVED	DATE				
			<i>Tom Koper</i>		1/7/2019	 CITY OF CORONA THE GREAT CITY
			TOM G. KOPER, PE. CITY ENGINEER		1/7/2019	
			<i>Vernon R. Weisman</i>			SHEET 4 OF 4
			VERNON R. WEISMAN, PE. DISTRICT ENGINEER			