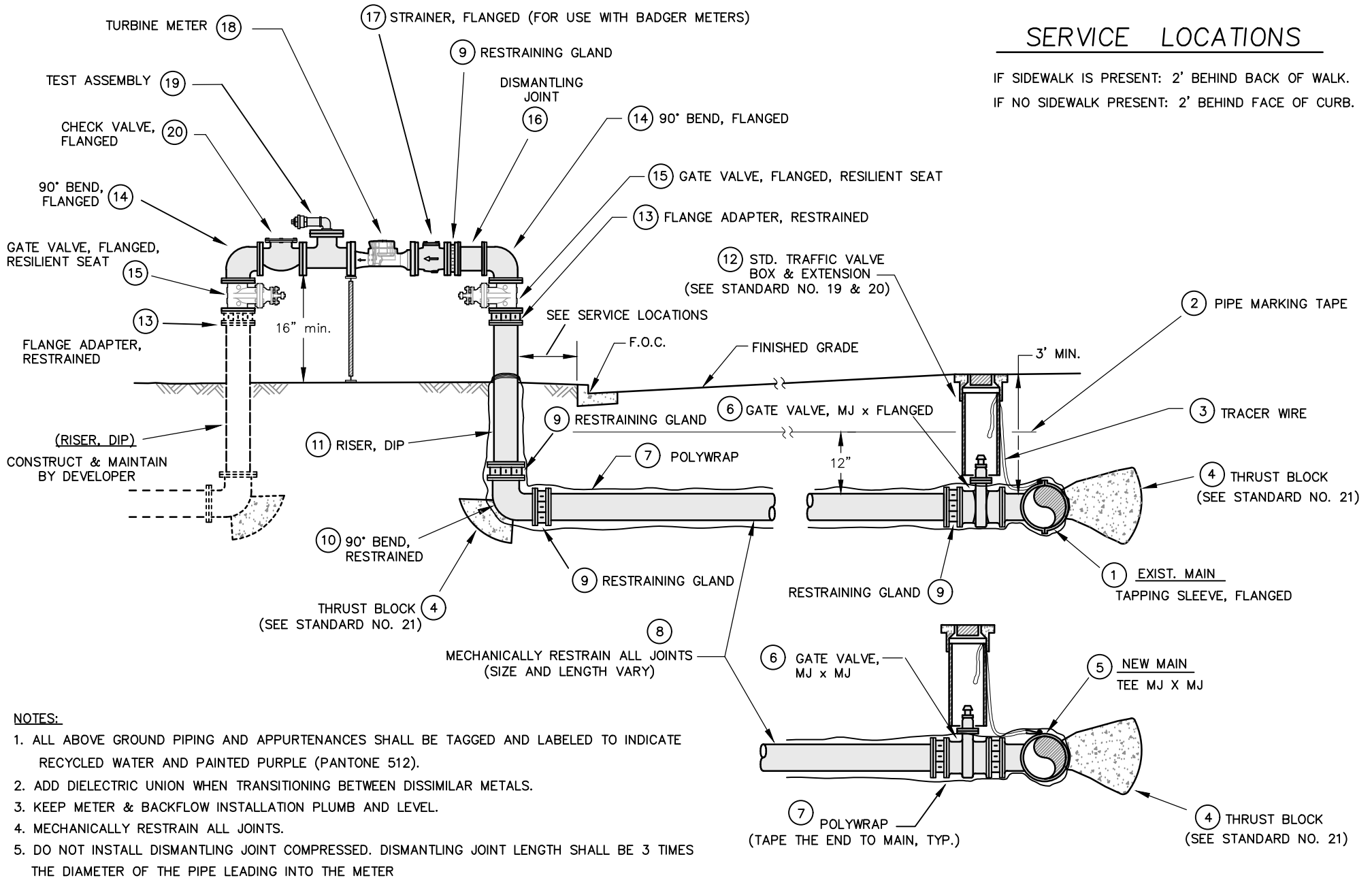


SERVICE LOCATIONS

IF SIDEWALK IS PRESENT: 2' BEHIND BACK OF WALK.
 IF NO SIDEWALK PRESENT: 2' BEHIND FACE OF CURB.



Drawn By: DUC L. / MITCHELL S.
 Checked By: AHMED A. / JAMES M.
 Approved By: SHILPA M.
 Revised Date: 2/1/2023

Signature: *[Handwritten Signature]*
 Director of
 Water and Sewer Utilities

CITY OF SANTA CLARA
 WATER AND SEWER UTILITIES - STANDARD NO. 13A
**4", 6" AND 8" RECYCLED WATER SERVICE
 (ABOVE GROUND)**

Standard No. 13A – 4”, 6” and 8” Recycled Water Service (Above Ground) – Material List

Domestic Products Only. Use 316 stainless steel bolts, flange gasket with EPDM rubber, nuts, and washers for all bolted connections.

Use no lead products for domestic water services.

Coat above ground water service paint with purple (Pantone 512)

Provide 5-foot clearance around service above ground from all structures, objects, landscaping, etc.

Material	Description	Manufacturer	Model
1. Tapping Saddle	Flanged with all accessories. -Ductile iron, cast iron, or PVC -AC pipe	Mueller	H-615
		JCM	#414
		Mueller	H-619
		JCM	#414
2. Pipe Marking Tape	Purple. 3” wide, 4 mil, non-detectable.		
3. Tracer Wire	RHW#12 AWG Solid. Tape to the top of the water main with 12” minimum slack inside all valve boxes		
4. Thrust Block	See City Standard No. 21		
5. Tee	MJ x MJ. AWWA C-153 compact ductile iron, cement lined and zinc coated with stainless steel bolts and gaskets	Tyler Union	
6. Gate Valve	MJ x MJ or MJ x Flanged. AWWA C-515 resilient seat, epoxy coat inside and out to meet AWWA C-550. Open left with 2” square operating nut. All rubber components shall be EPDM.	Mueller	A-2361
		M&H	Style 7000
7. Polywrap	Purple. 8 mil low density or 4 mil high density polyethylene film installed per AWWA C105. Tape end to pipe with 10 mil tape.		
8. Pipe mechanically restrain all joints	-Ductile iron, cement lined and zinc coated, Class PC350 or greater. Protect with polywrap for underground pipe.	US Pipe	
		McWane Ductile	
9. Restraining Gland	Joint restraint for use with mechanical joint fittings. Size as specified.	US Pipe (not allowed above ground)	MJ Field Lok
		EBAA	Megalug Series 1100
		KRAUSZ	Hymax Grip
10. 90 Degree Bend, restrained	AWWA C-153 ductile iron with mechanical joint, cement lined and zinc coated with stainless steel bolts and gaskets AWWA C-219, ductile iron, mechanically restrained, fusion bonded epoxy with stainless steel bolts	Tyler Union	with Megalug Restraining gland
		KRAUSZ	Hymax Grip
11. Riser	Ductile iron, cement lined and zinc coated, PC350		
12. Traffic Valve Box & Extension (see Standard Detail Nos. 19 & 20)	Valve Box with purple painted lid marked "RECYCLED" or "RECYCLED WATER" Extension - 8” PVC SDR 35, single piece cut to proper length.	Tyler Union	G5 with lid marked "RECYCLED" or "RECYCLED WATER"
13. Flange Adapter, restrained	AWWA C-153 ductile iron, MJ x FLG AWWA C-219, ductile iron, fusion bonded epoxy with stainless steel bolts	Tyler Union	with Megalug Restraining gland
		KRAUSZ	Hymax Grip
14. 90 Degree Bend	Flanged. Size as specified. AWWA C-110 ductile iron, cement-lined and zinc coated.	Tyler Union	
15. Gate Valve	Flanged. AWWA C-515 resilient seat, epoxy coated inside and out to meet AWWA C-550. Open left with 2” square operating nut. All rubber components shall be EPDM.	Mueller	A-2361
		M&H	Style 7000
16. Dismantling Joint	Dismantling Joint. Length = 3x diameter.	KRAUSZ	Hymax Dismantling Joint
17. Strainer (for use with 6” & 8” Badger meters)	Provide separate strainer for 6” & 8” Badger meters	Badger	
18. Water Meter & Register (manufacturer's test results are to be submitted with all meters).	With strainer and test plug. Provide purple, recycled water, encoded meter register with Nicor connector. Register shall be compatible with Elster transmitter. All registers to be facing inlet and provide cubic feet reading.	Badger	Turbo Series 450 RECLAIMED/ test plug
		Mueller	HBMAG
19. Test Assembly	Consisting of a brass nipple, ball valve and brass plug. See meter manufacturer's specifications for size.	Ball valve - Ford	B11-NL
20. Check Valve	Brass, flanged	Mueller	A-2600-06