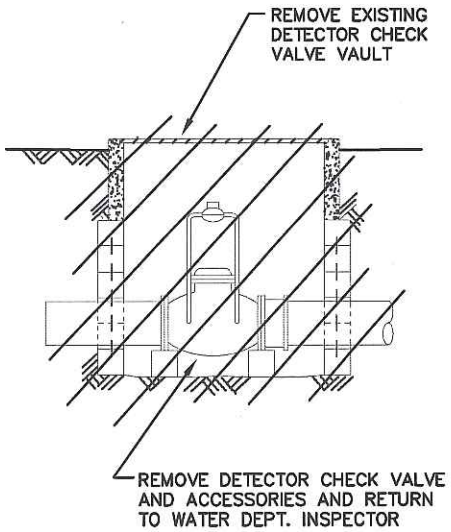
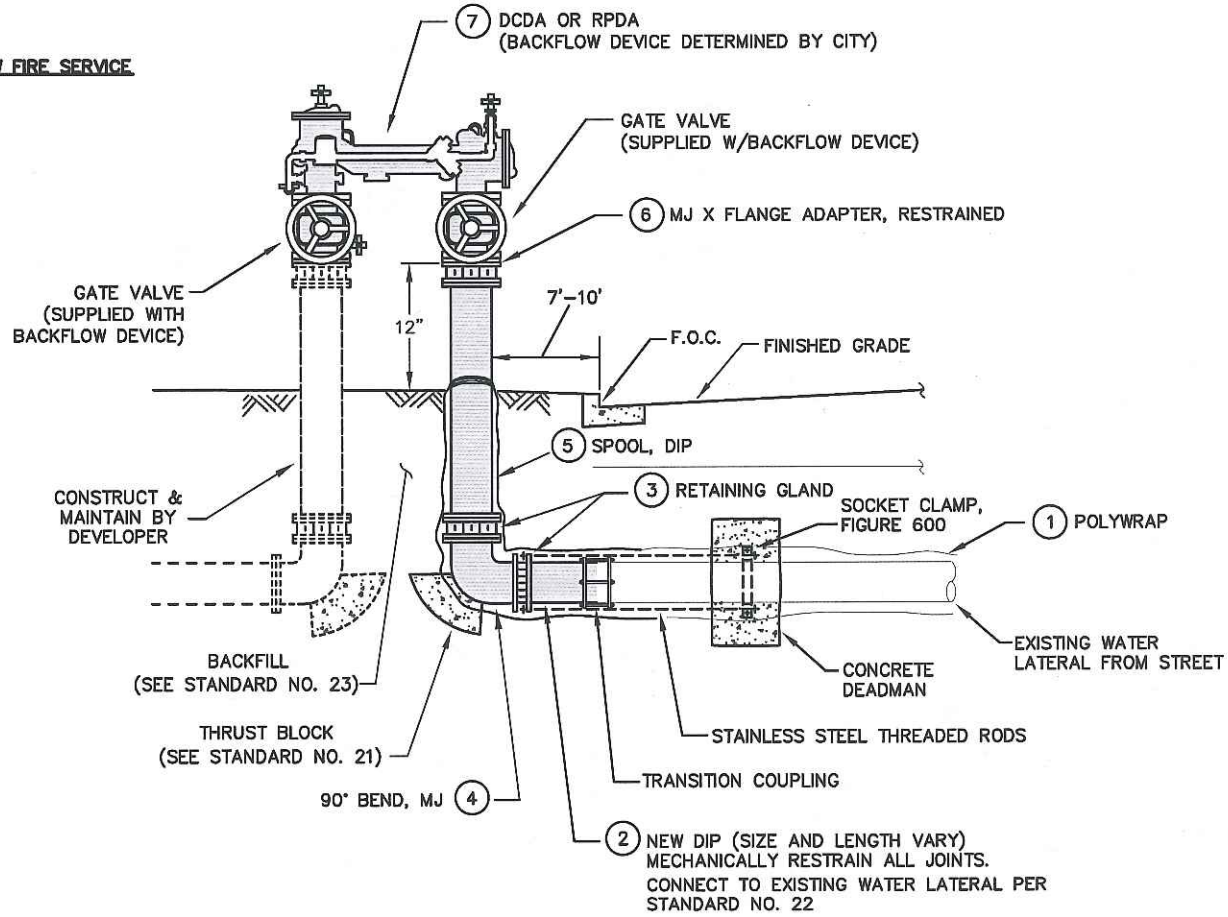
EXISTING FIRE SERVICE



NEW FIRE SERVICE



NOTES TO DEVELOPER:

1. ADD DIELECTRIC UNION WHEN TRANSITIONING BETWEEN DISSIMILAR METALS.
2. KEEP METER & BACKFLOW INSTALLATION PLUMB AND LEVEL.
3. NO ADDITIONAL SERVICE CONNECTIONS ALLOWED ON FIRE SERVICE.
4. MECHANICALLY RESTRAIN ALL JOINTS.
5. PROVIDE 3 FOOT CLEARANCE AROUND SERVICE ABOVE-GROUND.
6. BOLLARDS MAY BE REQUIRED AS DETERMINED BY CITY.

Drawn By: D. LUU	Signature:	CITY OF SANTA CLARA WATER DEPT. - STANDARD NO. 31
Checked By: L. AU	Director of Water and Sewer Utilities	**UPGRADE EXISTING 4" - 10" FIRE SERVICE ASSEMBLY** **(WITH ABOVE-GRADE BACKFLOW DEVICE ASSEMBLY)**
Approved By: R. WILSON, T. WILCOX		
Revised Date: DECEMBER 2012		

I:\Water\CAD\AutoCad Drawings\Standard Detail\STD-Detail (2011 Rev.)\STD-Detail-2011-CAD\STD-31-2012rev.dwg - STD Detail (2005 Rev).ctb 12/10/2012

City of Santa Clara – Water & Sewer Utilities Department

Standard No. 31 – Upgrade Existing 4"-10" Fire Service Assembly with DCDA or RPDA – Material List

Domestic Products Only. Use 316 stainless steel bolts, nuts, and washers for all bolted connections.
Coat above ground water service with Dunn Edwards Paint #10-L, 11-789-04 Santa Clara Mission Sand, Syn Lustro
Provide 3-foot clearance around service above ground.

Material	Description	Manufacturer	Model
1. Polywrap	To be used for DIP. Blue. 8 mil low density or 4 mil high density polyethylene film installed per AWWA C105. Tape ends to pipe with 10 mil tape.		
2. Pipe	Mechanically restrain all joints. -Ductile iron, cement lined Class 50. Protect with polywrap for underground pipe.	US Pipe Pacific States	
3. Retaining 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
		Uniflange	Series 1400 (DIP)
4. 90 Degree Bend with mechanical joint	AWWA C-153 ductile iron with mechanical joint, cement lined with stainless steel bolts and gaskets	US Pipe	
		Tyler Union	
5. Spool	Ductile iron, class 50 minimum.		
6. MJ x Flange Adapter	AWWA C-153 ductile iron.	Tyler Union	#5-158
		Trinity / USP	With megalug restraining gland
7. Double Check Detector Assembly	Includes gate valves and bypass (leak detection) Badger meter. Provide Elster transmitter compatible encoded register with Nicor connector. All registers to be facing inlet and provide cubic feet reading.	Wilkins	450DA
		Febco	876VST
Reduced Pressure Detector Assembly	Includes gate valves and bypass (leak detection) Badger meter with Elster transmitter compatible encoded register with Nicor connector. Meter register to be facing inlet and provide cubic feet reading. Each RP to have separate serial number.	Watts	909 RPDA with Rising Stems
		Wilkins	475DA
*(Unit to be determined by City)			