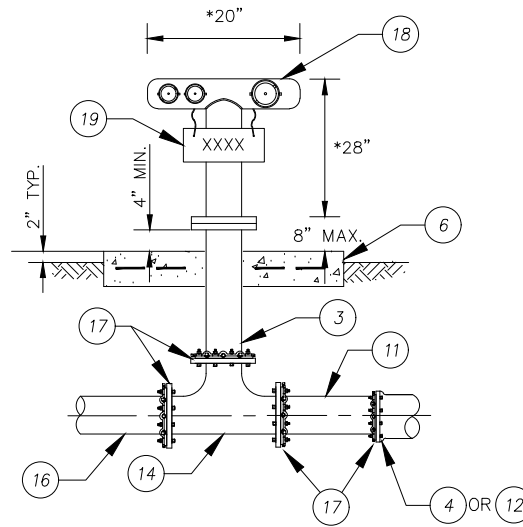
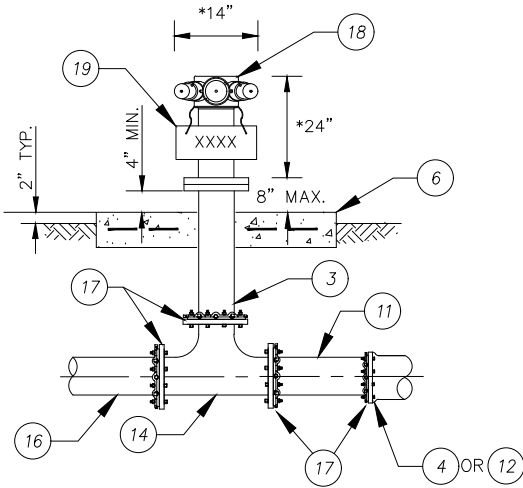
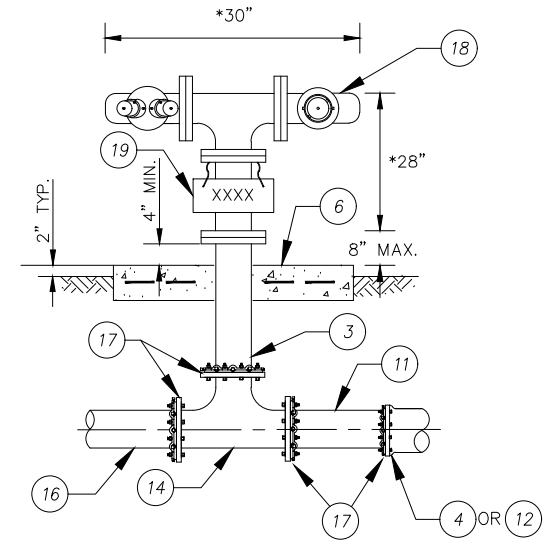


*DIMENSION MAY VARY FOR SPECIAL CIRCUMSTANCES.

PLAN



ELEVATION




CASE 3: FDC WITH TWO 2½" INLETS & ONE 4" INLET.

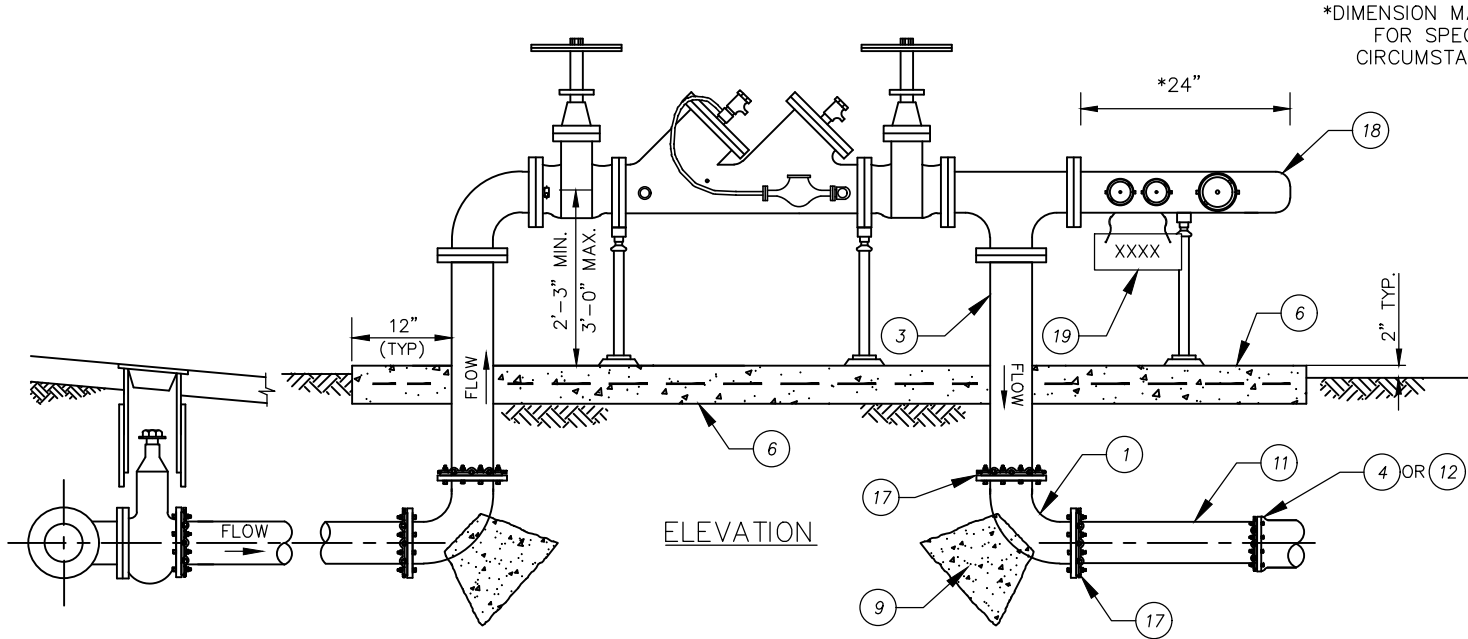
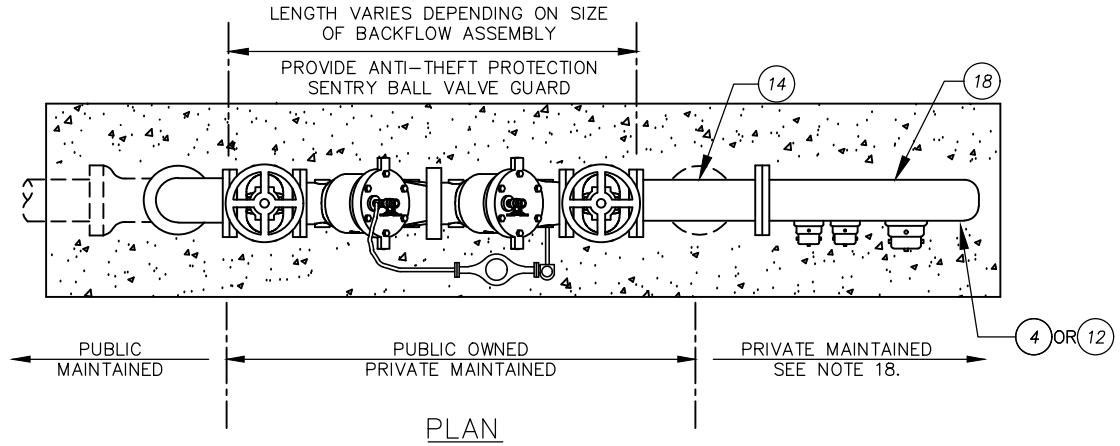
CASE 4: FDC WITH TWO 2½" INLETS & ONE 4" INLET.

CASE 5: FDC WITH TWO 2½" INLETS & ONE 4" INLET.

NOT TO SCALE

REFER TO SHEET 1 FOR CONSTRUCTION OF THE DCDA.
REFER TO SHEET 4 FOR MATERIALS LIST NOTES.


REVISION			APPROVED:		DATE	CITY OF CORONA
NO.	APPROVED	DATE				
1	VRW	12/28/18	<i>Tom Eger</i>		1/7/2019	 CITY OF CORONA STD 417
			<i>Vernon R. Weisman</i>		1/7/2019	
						CITY OF CORONA
						STD 417
						SHEET 2 OF 4



CASE 6: FDC WITH TWO 2½" INLETS & ONE 4" INLET ATTACHED TO DCDA.

NOT TO SCALE

REFER TO SHEET 1 FOR CONSTRUCTION OF THE DCDA.
REFER TO SHEET 4 FOR MATERIALS LIST AND NOTES.


REVISION			APPROVED:		DATE	CITY OF CORONA
NO.	APPROVED	DATE				
1		10/01/20	Tom Koper		10/26/20	 CITY OF CORONA STD 417
2	VRW	10/26/20	Vernon R. Weisman		10/26/20	
			VERNON R. WEISMAN, PE. DISTRICT ENGINEER			SHEET 3 OF 4

ITEM MATERIALS

- ① — DI 90-DEGREE BEND, MJ.
- ② — RW O.S.&Y GATE VALVE FLG X FLG. O.S.&Y VALVES TO BE LOCKED IN OPEN POSITION WITH CHAIN AND BREAKAWAY PADLOCK.
- ③ — DI SPOOL FLG X PE (LENGTH AS REQUIRED).
- ④ — RESTRAINED TRANSITION COUPLING. (BY OTHERS, FOR ON-SITE CONNECTION WHEN ON-SITE PIPING EXISTS.)
- ⑤ — DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTION ASSEMBLY (DCDA) WITH RISING STEM RESILIENT WEDGE GATE VALVES, VALVES SHALL BE PROVIDED AS AN INTEGRAL PART OF BACKFLOW ASSEMBLY. INSTALL LEAD FREE DEVICES LISTED IN THE USC LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES.
- ⑥ — 8-INCH THICK CONCRETE SLAB, 560-C-3250, REINFORCE WITH #4 REBAR @ 12 INCHES EACH WAY.
- ⑦ — RESILIENT WEDGE GATE VALVE FLG X MJ PER CITY STD. DWG. 420.
- ⑧ — FACTORY INSTALLED BY-PASS METER ASSEMBLY. METER TO BE USED FOR FIRE SYSTEMS ONLY. METER READS IN CUBIC FEET.
- ⑨ — THRUST BLOCK PER CITY STD. DWG. 401.
- ⑩ — ADJUSTABLE PIPE SUPPORT FOR ASSEMBLIES 6-INCH DIAMETER AND LARGER PER CITY STD. DWG. 418.
- ⑪ — DIP SECTION, CL. 350, 48 INCHES LONG.
- ⑫ — DI END CAP. MJ WITH RESTRAINED RETAINER GLAND.
- ⑬ — DI 90-DEGREE BEND FLG FOR 3-INCH DOUBLE CHECK DETECTOR BACKFLOW PREVENTION ASSEMBLY USE 4" x 3" DI 90-DEGREE REDUCING BEND FLG.
- ⑭ — DI TEE, MJ.
- ⑮ — VALVE BOX PER CITY STD. DWG. 422.
- ⑯ — DIP, CLASS 350, RESTRAINED JOINT.
- ⑰ — MJ RESTRAINED JOINTS, EBAA IRON MEGALUG SERIES 1100. CONSTRUCT CONCRETE THRUST BLOCK WHEN REQUIRED PER CITY STD. DWG. 401.
- ⑱ — FIRE DEPARTMENT CONNECTION (FDC) PER NOTE 11, 12, 13, 14, 15, AND 16.
- ⑲ — ADDRESS SIGN PER NOTE 17.

NOTES:

1. NOTIFY CITY PRIOR TO INSTALLATION OF BACKFLOW DEVICE.
2. BACKFLOW ASSEMBLY SHALL BE A MINIMUM OF 36 INCHES FROM ANY STRUCTURE, CURB OR SIDE WALK.
3. BACKFLOW ASSEMBLY AND CITY PIPING SHALL BE WITHIN A DEDICATED CITY EASEMENT OR PUBLIC RIGHT-OF-WAY.
4. PLACE BRASS PLUGS IN ALL TEST VALVE OUTLETS.
5. BY-PASS METER TO BE USED FOR FIRE SYSTEMS ONLY. INSTALL APPROVED LEAD FREE BYPASS METER PER THE USC LIST AND READS IN CUBIC FEET. DO NOT INSTALL BY-PASS METERS WHERE SUPPLY TO DEVICE IS ALREADY METERED.
6. FLANGED JOINTS SHALL HAVE TYPE 316SS NUTS, BOLTS, AND WASHERS. APPLY ANTI-SEIZE COMPOUND TO THREADS.
7. RESTRAIN ALL PIPING, JOINTS, AND FITTINGS BETWEEN THE MAIN AND THE CUSTOMER CONNECTION.
8. MECHANICAL JOINTS SHALL BE RESTRAINED WITH "MEGA-LUG" TYPE RESTRAINTS.
9. WRAP PIPE AND VALVE WITH A DOUBLE LAYER OF 8-MIL BLUE POLYETHYLENE.
10. DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) SHALL BE PAINTED OSHA SAFETY RED.
11. APPROVED FIRE DEPARTMENT CONNECTIONS (FDC) SHALL BE LOCATED WITHIN 150' OF A PUBLIC FIRE HYDRANT. A RETAINING WALL SHALL BE ADDED IF THERE IS A SLOPE, TO PROTECT THE FDC. FIRE DEPARTMENT INLET CONNECTIONS SHALL BE PAINTED OSHA SAFETY RED.
12. THE FDC SHALL BE ON THE ADDRESS SIDE OF THE BUILDING AND LOCATED IMMEDIATELY ADJACENT TO THE APPROVED FIRE DEPARTMENT ACCESS ROAD. THE FDC SHALL BE IN A POSITION ALLOWING HOSE LINES TO BE READILY AND CONVENIENTLY ATTACHED.
13. THE FDC SHALL CONTAIN A MINIMUM OF TWO 2½" INLETS. SITES CONTAINING PRIVATE HYDRANTS SHALL HAVE AN FDC WITH A MINIMUM OF TWO 2½" INLETS AND ONE 4" INLET. WHERE REQUIRED BY THE FIRE CODE OFFICIAL, ONSITE HYDRANTS SHALL BE INSTALLED FOR COMMERCIAL, INDUSTRIAL, MULTIFAMILY, AND MULTISTORY DEVELOPMENTS WITH AN FDC OF TWO 2½" AND ONE 4" INLETS.
14. THE FDC SHALL BE CONSTRUCTED WITHIN AN EASEMENT AND HAVE A 3 FT CLEARANCE IN ALL DIRECTIONS. MINIMUM SIZE REQUIREMENT FOR THE EASEMENT SHALL BE 20' x 20'.
15. THE USE OF DCDA STANDARD CASE 6 WITH FDC ATTACHED SHALL BE APPROVED BY THE FIRE CODE OFFICIAL, PRIOR TO DESIGN SUBMITTAL.
16. THE FDC SHALL BE UL LISTED OR FM APPROVED.
17. PERMANENT SIGNAGE SHALL BE REQUIRED IDENTIFYING THE ADDRESS AND/OR RISER FOR WHICH THE FDC IS SERVING. MINIMUM OF 1-INCH LETTER HEIGHT; ALL UPPER CASE LETTERS. THE PERMANENT SIGN SHALL HAVE REFLECTIVE WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT. METAL SIGNS PERMANENTLY ATTACHED WITH CHAIN OR DURABLE ADHESIVE MATERIALS MAY MEET THIS REQUIREMENT.
18. PRIVATE UNDERGROUND FIRE LINE PLANS SHALL BE SUBMITTED SEPARATELY TO BUILDING DEPARTMENT FOR REVIEW AND APPROVAL.
19. A HIGH RISE BUILDING SHALL REQUIRE SEPARATE REVIEW AND APPROVAL.
20. ALL FITTINGS, PIPES, VALVES, AND FIXTURES SHALL BE LEAD FREE IN COMPLIANCE WITH FEDERAL AND STATE LAWS.
21. PAINT ALL BRASS AND COPPER PIPING, FITTINGS, VALVES AND APPURTENANCES WITHIN 24 HOURS OF INSTALLATION.

REVISION			APPROVED:		DATE	CITY OF CORONA
NO.	APPROVED	DATE	DATE	DATE		
1		10/01/20	<i>Tom Koper</i>	10/26/20	DATE	 STD 417
2	VRW	10/26/20	<i>Vernon R. Weisman</i>	10/26/20	DATE	
			VERNON R. WEISMAN, PE. DISTRICT ENGINEER			SHEET 4 OF 4