



NOTES:

1. SEE CITY STD. DWG. 419 FOR ADDITIONAL REQUIREMENTS WHEN CROSSING UNDER SEWER LINES.
2. CONNECT TO EXISTING WATERLINE WITH FLEX COUPLINGS OR FLANGES WITH SLIP-ON FLANGE WELDED TO EXISTING STEEL PIPE, IF REQUIRED.
3. NEW DUCTILE IRON WATERLINE SHALL BE RESTRAINED MECHANICAL JOINTS ("MEGA-LUG" TYPE OR EQUAL) WITH A DOUBLE WRAP 8-MIL BLUE POLYETHYLENE WRAP.
4. NUTS, BOLTS, AND WASHERS SHALL BE TYPE 316SS.
5. IF EXISTING WATERLINE IS ASBESTOS CEMENT PIPE (ACP), BACKFILL TRENCH UNDER ACP WITH ONE-SACK SLURRY.
6. PROVIDE ANCHOR BLOCKS OR ADDITIONAL THRUST RESTRAINTS AS REQUIRED. SUBMIT ENGINEERING CALCULATIONS.
7. CONCRETE THRUST BLOCK NOT REQUIRED IF PIPE IS SUFFICIENTLY RESTRAINED OUTSIDE OF WATER LINE UNDERCROSSING. PROVIDE ENGINEERING CALCULATIONS TO DEMONSTRATE RESTRAINT PROVIDED BY RESTRAINED JOINT PIPE.
8. SUPPORT EXISTING UTILITY EXPOSED IN TRENCH AS NECESSARY TO PROTECT IN PLACE.
9. IF CROSSING UNDER GAS LINE WITH CATHODIC PROTECTION, BOND JOINTS AND CONSTRUCT CP TEST STATION AS DIRECTED BY DWP GENERAL MANAGER OR DESIGNEE.
10. 11¼ AND 22½ DEGREE BENDS MAY BE USED WHERE FIELD CONDITIONS WARRANT THEIR USE PENDING APPROVAL BY DWP GENERAL MANAGER OR DESIGNEE.
11. AIR/VAC VALVE REQUIRED AT HIGH POINTS IN THE WATER SYSTEM.
12. ALL FITTINGS, PIPES, VALVES AND FIXTURES SHALL BE LEAD FREE IN COMPLIANCE WITH FEDERAL AND STATE LAWS.

ITEM MATERIALS

- 1 AIR/VAC VALVE PER CITY STD. DWG. 413. SEE NOTE 11.
- 2 DIP MJ 45-DEGREE BEND. SEE NOTE 10.
- 3 DIP SPOOL.
- 4 BLOWOFF HYDRANT AT LOW POINT PER CITY STD. DWG. 416.
- 5 CONCRETE THRUST BLOCK PER CITY STD. DWG. 401. SEE NOTE 7.
- 6 FLEXIBLE PIPE TRANSITION COUPLING, REQUIRED BETWEEN DISSIMILAR PIPE MATERIALS. FUSION BONDED EPOXY COATING WITH STAINLESS STEEL HARDWARE.
- 7 MECHANICAL JOINT RETAINER GLAND, EBAA IRON MEGALUG SERIES 1100.
- 8 CUT EXISTING CML&C STEEL PIPE AND WELD ON FLANGE.
- 9 FLANGE INSULATING KIT PER CITY STD, DWG. 458.
- 10 DI MJ x FLG ADAPTER.

NOT TO SCALE

POTABLE WATER LINE CROSSING UNDER EXISTING UTILITY

| REVISION | | |
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| NO. | APPROVED | DATE |
| 1 | VRW | 05/30/18 |
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APPROVED:

Nelson D. Nelson
 NELSON D. NELSON, PE,
 PUBLIC WORKS DIRECTOR

Vernon R. Weisman
 VERNON R. WEISMAN, PE,
 DISTRICT ENGINEER

5/31/2018

DATE

5/31/2018

DATE



CITY OF CORONA

STD 407

SHEET 1 OF 1