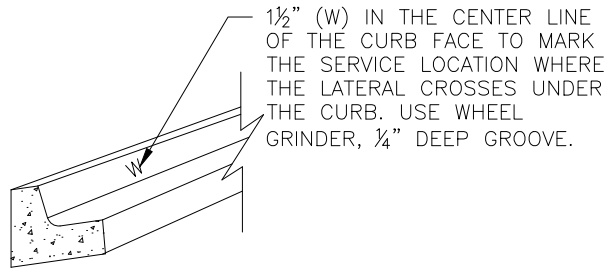
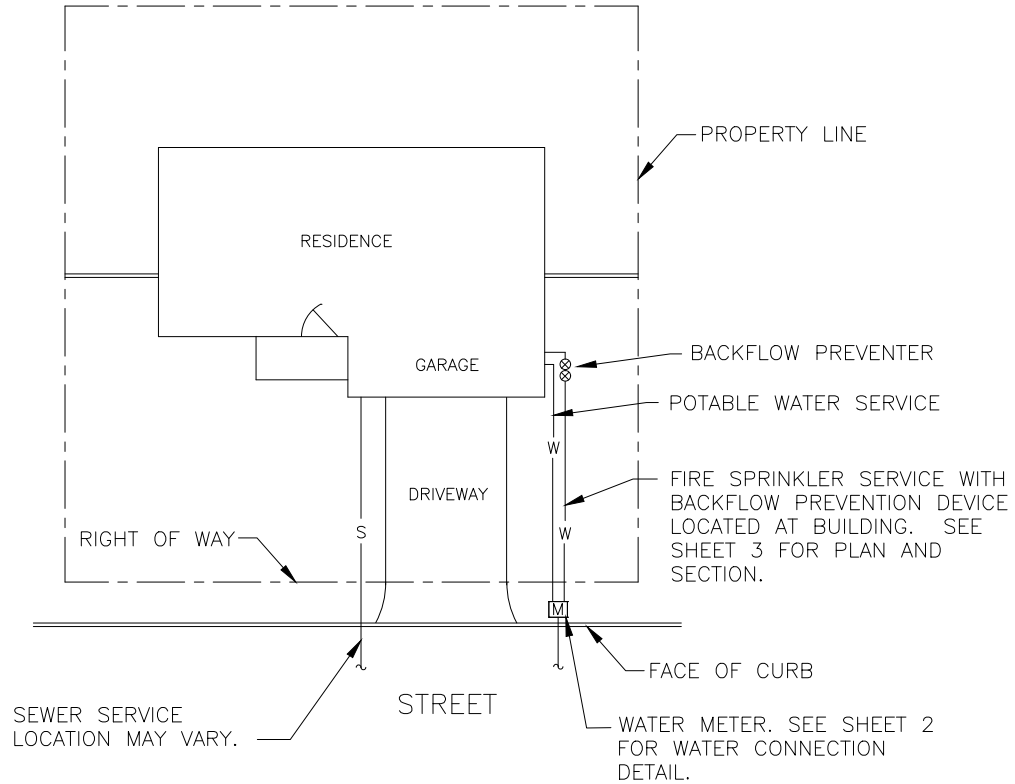



GENERAL NOTES:

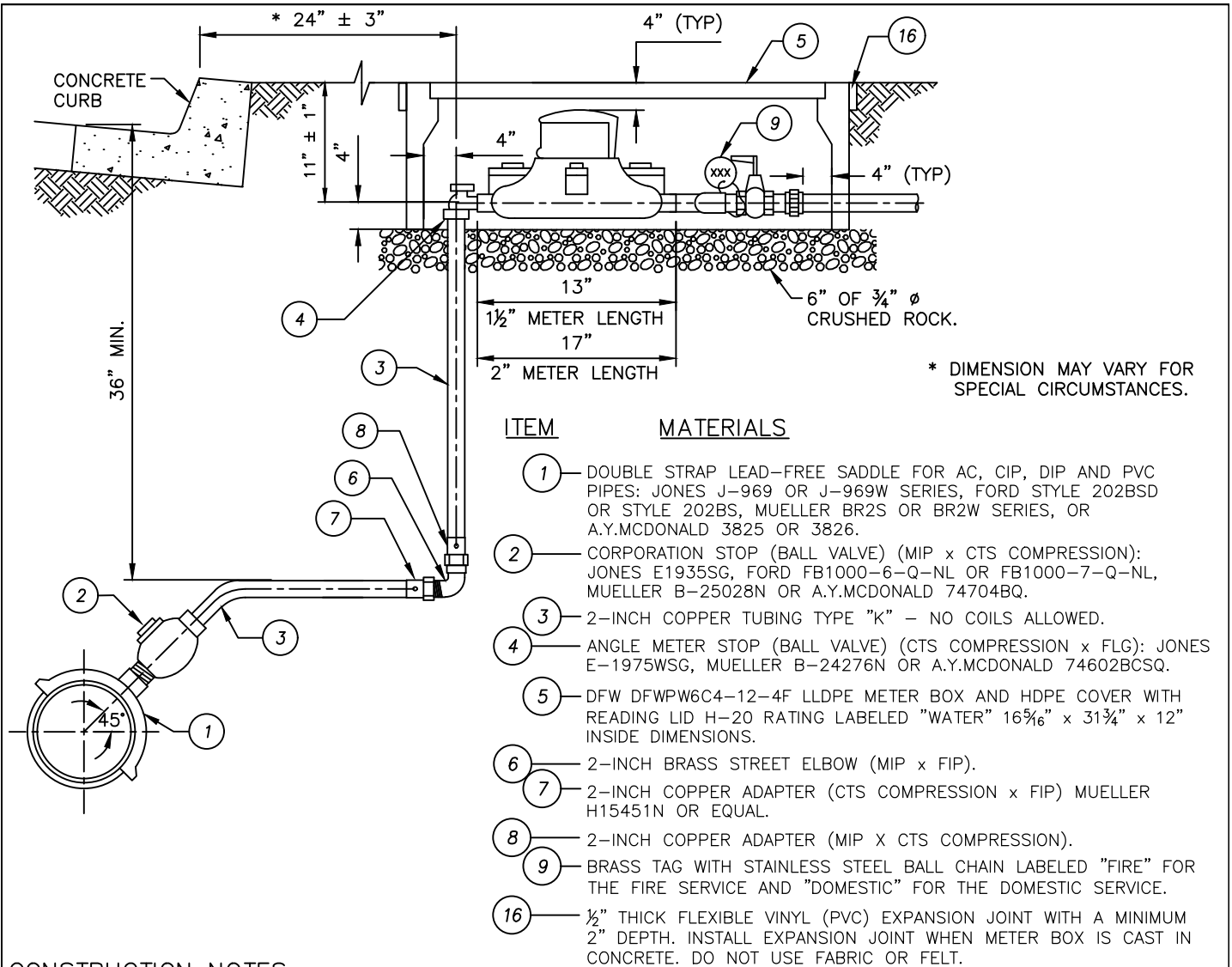
1. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE SERVICE CONNECTION AS SHOWN ON THIS STANDARD DRAWING EXCEPT FOR THE WATER METER. THE CITY WILL PROVIDE AND INSTALL THE WATER METER.
2. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATER MAIN TO THE METER STOP.
3. ALL DUAL PLUMBED SERVICES WITH A FIRE SERVICE ARE REQUIRED TO HAVE A DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY INSTALLED AND TESTED PRIOR TO SERVICE BEING TURNED ON. PROVIDE ACCESS TO BACKFLOW PREVENTER FOR TESTING.
4. LOCATIONS SHOWN FOR WATER METER BOX, POTABLE WATER SERVICE, AND FIRE SPRINKLER SERVICE ARE DIAGRAMMATIC AND MAY BE REVISED TO SUIT EACH PROPERTY.
5. ALL FITTINGS, PIPE, VALVES, AND FIXTURES SHALL BE LEAD FREE IN COMPLIANCE WITH FEDERAL AND STATE LAWS.



NOT TO SCALE

1-1/2" AND 2" POTABLE WATER SERVICE CONNECTION DETAIL WITH FIRE SPRINKLER SERVICE

| REVISION |          |          | APPROVED:                                   |  | DATE     |  |  | CITY OF CORONA |  |
|----------|----------|----------|---|--|----------|--|---|----------------|--|
| NO.      | APPROVED | DATE     | <u>Tom Koper</u>                            |  | 1/7/2019 |  |   |                |  |
| 2        |          | 04/28/14 | TOM G. KOPER, PE,<br>CITY ENGINEER          |  | DATE     |  |   |                |  |
| 3        |          | 05/04/18 | <u>Vernon R. Weisman</u>                    |  | 1/7/2019 |  |   | STD 409        |  |
| 4        | VRW      | 12/28/18 | VERNON R. WEISMAN, PE,<br>DISTRICT ENGINEER |  | DATE     |  | SHEET 1 OF 4  |                |  |



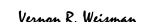


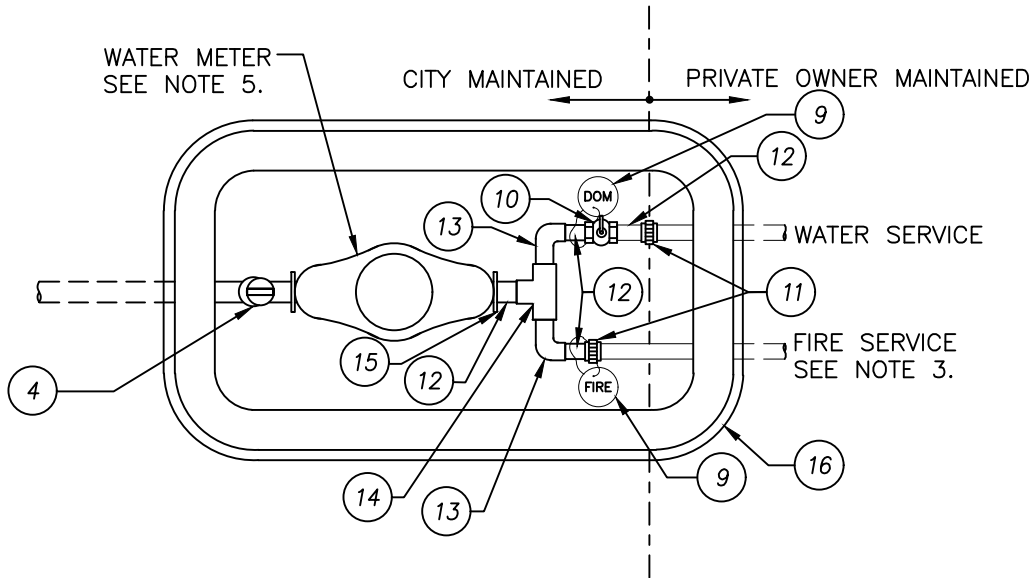
**CONSTRUCTION NOTES:**

- SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 12 INCHES OF VALVE, COUPLING, JOINT, OR FITTING.
- DOUBLE-WRAP ALL PIPING BELOW GRADE IN A BLUE COLORED 8-MIL POLYETHYLENE SLEEVES LABELED POTABLE WATER. EXTEND POLYETHYLENE SLEEVES 2 INCHES MINIMUM ABOVE FINISH GRADE. SECURE WITH 10-MIL TAPE.
- CONSTRUCT WATER SERVICE PIPE IN SAND BEDDING (SE 30 MINIMUM) FROM CORP STOP TO METER BOX.
- ALL CONNECTIONS TO COPPER TUBING SHALL BE COMPRESSION TYPE AND SERVICE MUST BE CONTINUOUS AND UN CUT. NO SWEAT TYPE FITTINGS ALLOWED.
- CONNECTIONS TO STEEL WATER MAINS SHALL BE WITH A WELDED 3000 POUND HALF COUPLING AND DIELECTRIC INSULATING BUSHING. ALL STEEL SURFACES SHALL BE COVERED WITH CEMENT MORTAR.
- ROUND AND DE-BURR ALL COPPER PIPE PRIOR TO INSTALLATION.
- WRAP SERVICE SADDLE WITH TWO LAYERS OF 8-MIL POLYETHYLENE.
- INSTALL BRASS PIPING AND FITTINGS INSIDE METER BOX BETWEEN ANGLE METER STOP AND BRASS UNIONS.
- PROVIDE METER BOXES IN UNIMPROVED STREETS AND BEHIND ROLLED CURBS WITH COVERS AND BOXES RATED FOR H-20 TRAFFIC LOADS.

NOT TO SCALE

**1-1/2" AND 2" POTABLE WATER SERVICE CONNECTION DETAIL WITH FIRE SPRINKLER SERVICE**

| REVISION |          |          | APPROVED:  |  |  | CITY OF CORONA |              |
|----------|----------|----------|--|--|---|----------------|--------------|
| NO.      | APPROVED | DATE     |  |  |   | STD 409        |              |
| 3        |          | 05/04/18 | <br>TOM G. KOPER, PE,<br>CITY ENGINEER          |  |   | 10/01/20       |              |
| 4        |          | 12/28/18 | <br>VERNON R. WEISMAN, PE,<br>DISTRICT ENGINEER |  |   | 10/01/20       |              |
| 5        | VRW      | 10/01/20 |  |  |   |                | SHEET 2 OF 4 |



**CONSTRUCTION NOTES:**



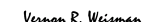
1. SEE CONSTRUCTION NOTES ON SHEET 2.
2. INSTALL A "LOCK OFF" STYLE BALL VALVE FOR THE DOMESTIC WATER SERVICE.
3. INSTALL FIRE SERVICE PER UNDERGROUND FIRE PLANS (MINIMUM 1-INCH DIA.).
4. 1½-INCH AND 2-INCH METERS ARE FLANGED.
5. THE CITY WILL PROVIDE AND WILL INSTALL A NEPTUNE T-10 METER (FLG X FLG). REQUEST THE METER INSTALLATION FROM THE PUBLIC WORKS INSPECTOR OR THE BUILDING INSPECTOR WHEN THERE IS NO PUBLIC IMPROVEMENT PLAN.
6. A REDUCER FITTING CAN BE INSTALLED BETWEEN THE ANGLE METER STOP VALVE AND THE METER, AND PAST THE BRASS UNION WITHIN THE PRIVATE OWNER MAINTAINED AREA.

**ITEM MATERIALS**

- 4 — ANGLE METER STOP (BALL VALVE) (CTS COMPRESSION x FLG): JONES E-1975WSG, MUELLER B-24276N OR A.Y.MCDONALD 74602BCSQ.
- 9 — BRASS TAG WITH STAINLESS STEEL BALL CHAIN LABELED "FIRE" FOR THE FIRE SERVICE AND "DOMESTIC" FOR THE DOMESTIC SERVICE.
- 10 — METER VALVE (FIP x FIP). USE JONES STYLE E-1900W OR MUELLER B-20200N WITH "LOCK OFF" HANDLE.
- 11 — BRASS UNION (FIP X FIP).
- 12 — RED BRASS NIPPLE (MIP X MIP), THREADED BOTH ENDS, 2-INCH LENGTH.
- 13 — BRASS STREET 90-DEGREE BEND (FIP X FIP).
- 14 — BRASS TEE (FIP X FIP).
- 15 — BRASS METER FLANGE (FLG X FIP).
- 16 — ½" THICK FLEXIBLE VINYL (PVC) EXPANSION JOINT WITH A MINIMUM 2" DEPTH. INSTALL EXPANSION JOINT WHEN METER BOX IS CAST IN CONCRETE. DO NOT USE FABRIC OR FELT.

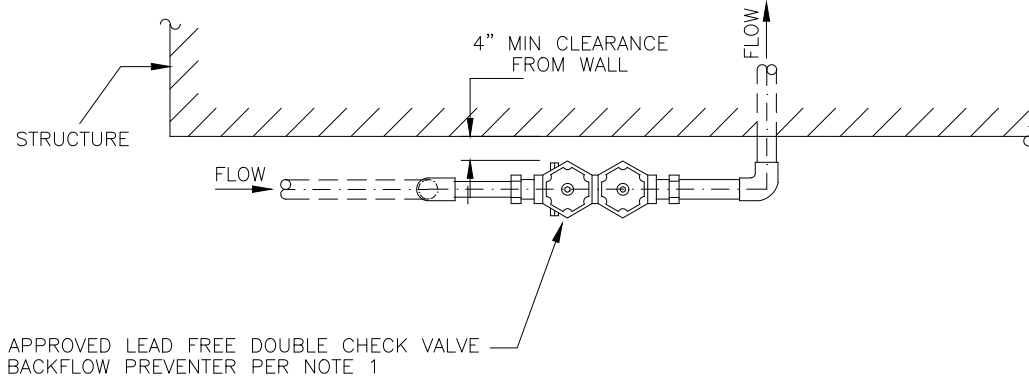
NOT TO SCALE

**1-1/2" AND 2" POTABLE WATER SERVICE CONNECTION DETAIL WITH FIRE SPRINKLER SERVICE**

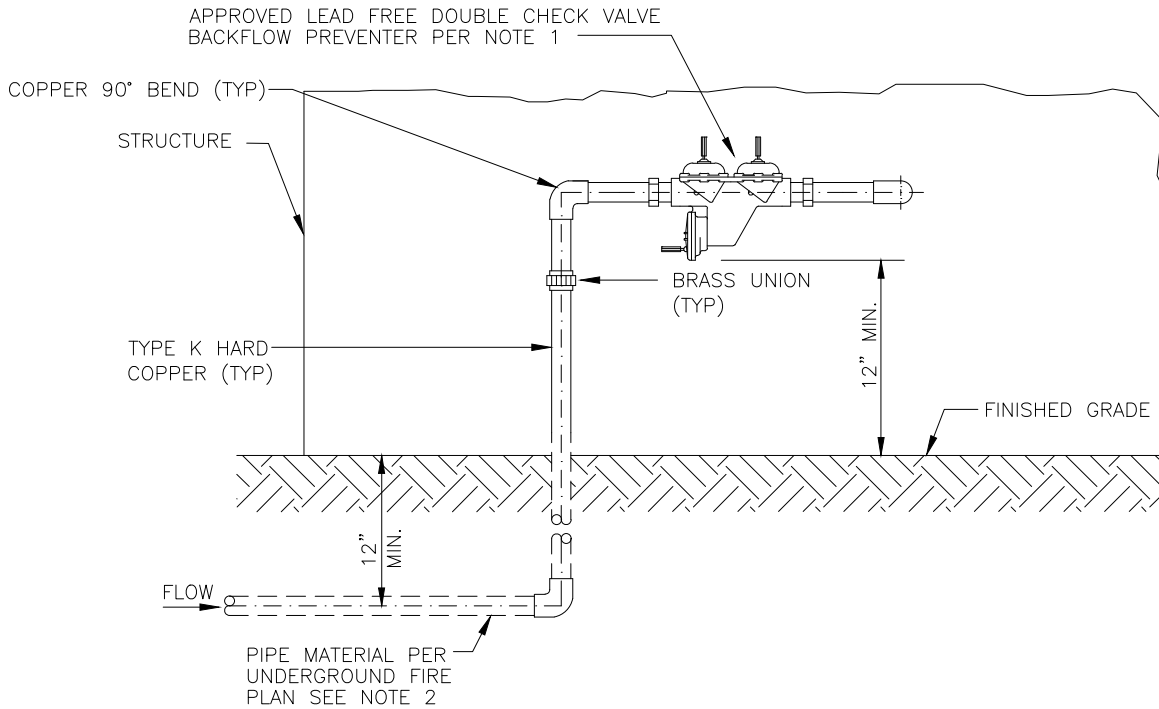
| REVISION |          |          | APPROVED:  |          |  | CITY OF CORONA |              |
|----------|----------|----------|--|----------|---|----------------|--------------|
| NO.      | APPROVED | DATE     | DATE   | DATE     |   | STD 409        |              |
| 3        |          | 05/04/18 | <br>TOM G. KOPER, PE,<br>CITY ENGINEER          | 10/01/20 |   |                |              |
| 4        |          | 12/28/18 | <br>VERNON R. WEISMAN, PE,<br>DISTRICT ENGINEER | 10/01/20 |   |                |              |
| 5        | VRW      | 10/01/20 |  |          |   |                | SHEET 3 OF 4 |

CONSTRUCTION NOTES:

1. INSTALL APPROVED LEAD FREE DOUBLE CHECK VALVE BACKFLOW PREVENTION DEVICES LISTED IN THE USC LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES.
2. INSTALL FIRE SERVICE PER UNDERGROUND FIRE PLANS (MINIMUM 1-INCH DIA.).
3. ALL FITTINGS, PIPE, VALVES, AND FIXTURES SHALL BE LEAD FREE IN COMPLIANCE WITH FEDERAL AND STATE LAWS.



PLAN



SECTION

NOT TO SCALE

1-1/2" AND 2" POTABLE WATER SERVICE CONNECTION DETAIL WITH FIRE SPRINKLER SERVICE

| REVISION |            |          |
|----------|------------|----------|
| NO.      | APPROVED   | DATE     |
| 1        |            | 02/13/14 |
| 2        |            | 04/28/14 |
| 3        | <b>VRW</b> | 05/04/18 |

APPROVED:

*Nelson D Nelson*

NELSON D. NELSON, PE,  
PUBLIC WORKS DIRECTOR

*Vernon R. Weisman*

VERNON R. WEISMAN, PE,  
DISTRICT ENGINEER

5/8/2018

DATE

5/8/2018

DATE



CITY OF CORONA

STD 409

SHEET 4 OF 4