

SECTION 026404
WATER SERVICE LINES

1. DESCRIPTION

This specification shall govern all work necessary for furnishing and installing water service lines required to complete the project. Water service lines are those lines from the City main to the meter at the property line.

2. MATERIALS

GENERAL

Service fittings shall have a minimum of 150 psi working pressure rating, unless indicated otherwise.

Fittings and materials shall be in accordance with the applicable provisions of AWWA C800.

All service connections shall require service clamps.

SERVICE CLAMP

Service clamps shall be brass saddle with two silicone bronze straps with I.P. thread and have a minimum working pressure rating of 200 psi. The saddle and nuts shall be of 85-5-5-5 brass alloy per ASTM B-62 and AWWA C800. The nuts shall have unitized washers. Straps shall be 5/8 inch high-quality silicone bronze, flattened and contoured to provide a wider bearing surface against the pipe. Clamps shall be comparable to:

Ford 202B, Smith Blair 323, Rockwell 323

CORPORATION STOP

Corporation stop shall be of brass with I.P. thread inlet and Mueller 110 compression connection outlet designed for Type K copper pipe and be comparable in design to the following:

Mueller H-15028 for 1" size
Mueller H-15023 for 1-½" & 2" sizes

ANGLE METER STOP

Angle meter stop shall have a Teflon coated bronze ball which rotates within two Buna-N rubber seats. Inlet shall be packed joint for Type K copper and be comparable in design to the following:

Ford BA43-342 for 1" service line with 5/8" x 3/4" or 3/4" meter size
Brass gate valve required for 1-1/2" and 2" sizes

SERVICE LINE

Service line shall be of Type K copper tube or approved one piece SDR9 polyethylene with restrained compression brass fittings and stainless steel inserts.

Other products of comparable features and equal quality may be substituted for the above items with approval of the Engineer.

3. CONSTRUCTION METHODS

See City Standard Specification Section 022020, "Excavation and Backfill for Utilities ".

Service lines shall be placed by the Contractor as indicated on the drawings and as directed by the Engineer.

Relocation of existing meters and changeovers to the new system shall be done only under the direct supervision of the City Water Department.

4. MEASUREMENT AND PAYMENT

Unless otherwise specified on the Bid Form, water service lines shall be measured with the units indicated in the Bid Form for each size of service line. Payment for service lines shall include, but not be limited to, the following: copper tubing, corporation stop, service clamp, angle meter stop, trenching, trench safety, backfilling including pavement repair, testing, flushing, clean-up and site restoration; and shall be full compensation for all labor, equipment, tools and incidentals required for proper installation of the water service lines.