

**SCOPE OF SERVICE  
FOR 2016 SADDLE TAP REPLACEMENT PROJECT  
CITY OF FOUNTAIN, COLORADO**

The Saddle Taps will be delivered to Fountain on a Unit Price contract. The successful contractor will be responsible for the following tasks at each Saddle Tap Replacement location:

1. Excavate Service Line at Water Main
2. Furnish and Replace 8-inch Tap Saddle and Corporation Stop conforming to City Standards
3. Soil Compaction Test
4. Replace Asphaltic Pavement
5. Restore Sidewalk and/or Parkway (if required)
6. Spoils Disposal and Clean-Up
7. Provide a one (1) year warranty

The successful contractor will be required to file and obtain all permits and licenses, manage all subcontractors and conform to all quality assurance testing and inspection. City of Fountain Street Cut Permit fees will be waived.

The Technical Standards for Saddle Tap Construction in the City of Fountain, Ordinance 1664, are as follows (complete Technical Specifications are available on the City of Fountain Web Page at [www.fountaincolorado.org](http://www.fountaincolorado.org)):

**7.3 Service Line Installation and Material**

- A. An expansion loop (three-fourth (3/4") inch through two (2") inch only) must be left in the service line where it is connected to the corporation stop at the water main to allow for expansion and contraction. Existing water services or taps, which are not three-fourth (3/4") inch or larger and do not consist of copper or polyethylene tubing or that will not meet the specifications referred to in this section, will not be permitted. If an existing tap has been deleted from the water system at the time of demolition, under no circumstances will the City of Fountain allow that service to be reconnected; it would constitute a new tap and service.
- B. Water service line material between the corporation and the curb stop shall be as follows:

	<b>Polyethylene Pipe</b>
Pressure Rating:	200 psi minimum, SDR 7
O.D. Base:	Iron Pipe Size
End Treatment:	Stainless Steel Stiffener Insert
Conformance:	ASTM D-2239 PE 3408
Acceptable Product:	Driscopipe
Acceptable Manufactures:	Phillips Petroleum Co. Johns Manville (JM)

- C. Water Service Line Joints Polyethylene pipe shall have compression fittings without flaring.
- D. All water service lines shall have a minimum cover of four (4') feet and a maximum cover of five (5') feet except at the expansion loop.
- E. Where any water service line crosses another utility or any underground structure, the water service line shall preferably pass over the other utility or structure, but in no instance shall there be less than six (6") inches clearance between the water service line and the other utility or structure. The space between the water service line and the utility or structure shall be backfilled with sand when the clearance is less than twelve (12") inches. Where any water service line passes under a sewer main, the sewer main shall be constructed of ductile iron for six (6') feet each side of the water service or the water service line shall be encased in a steel, ductile iron or PVC C-900 casing pipe with a minimum of four (4") inches in diameter for nine (9') feet each side of the sewer main or sewer service line.
- F. When a service pipe is installed, the City of Fountain will require a six (6) gauge stranded copper wire with THHN insulation to be installed with the service line and taped every three (3') feet to the pipe for the purpose of locating the service. The copper wire shall extend from the water main to the curb stop and from the curb stop to the building. The copper wire shall also be extended up the outside of the curb stop box to the ground surface with the specified wire splices (Nicropress sleeve or equal).
- G. New water service lines on single family units will be installed to enter the property three (3') feet inside of the side property line farthest from the garage and/or driveway unless otherwise approved by the Superintendent. The water service line shall be located such that no concrete or bituminous driveway pavement will be placed over any portion of the water service line from the curb to the curb stop.
- H. The length of the service line from the corporation to the house or other building will be limited as follows:

<b>Size</b>	<b>Maximum Length</b>
¾"	75 Feet
1"	100 Feet
1¼" - 1½"	150 Feet

- I. Authorized lengths of service lines two (2") inches and larger will be determined by the Superintendent on a case-by-case basis.
- J. Service taps must be spaced a minimum of forty-eight (48") inches apart and forty-eight (48") inches away from any fittings or joints.

## 7.4 Curb Stop and Curb Box

- A. All water service lines, regardless of size, must have a curb stop and a curb box installed in accordance with Standard Drawing No. 38. The curb box shall be centered over the curb stop and shall be plumb.
- B. All curb stop boxes will be located eight (8') feet behind the curb at the street right-of-way line, or where a front yard public improvement or utility easement exists, at the side line of the front yard easement unless designated otherwise by the Superintendent. For approved flag lots, the curb stop will be installed in front of the sidewalk for that individual flag lot.
- C. The responsibility of the Contractor for the curb box ends only when sidewalks, curbs, driveways and other public and private improvements have been installed and all backfilling and compaction has been completed and accepted by the City of Fountain.
- D. The Owner and his/her representative shall coordinate with the Contractor installing curb and gutter to provide an impression in the curb head while concrete remains plastic marking the location of a water service. An impression with the letter "W," a minimum of two (2") inches in height and one-fourth ( $\frac{1}{4}$ ") inch deep shall be provided at a location immediately above the water service line and opposite of a water curb stop box.
- E. Immediately after completion of backfill of water curb stop boxes, two (2) steel fence posts (tee posts) shall be placed approximately twelve (12") inches each side of the stop box. Orange webbed construction fencing shall be wrapped around the two posts immediately above the stop box location in order to provide notice and protection for each facility.
- F. Only corporation stops (FB-1001) and curb stop (B46-333) by Ford Meter Box Co. shall be permitted in the system.