



GENERAL NOTES:

- A. If service line is lead, galvanized steel or polybutylene, the entire service shall be replaced from the main.
- B. Households shall be notified at least one hour prior to water shut-off to make a connection.
- C. A 14 gauge (min.) insulated copper tracer wire shall be soldered and taped to locator wire on main line, looped around corp stop and run up to the meter box. The wire shall be taped to the service line at 7' intervals and 3' of wire shall be coiled in the meter box. Tracer wire color shall be blue.
- D. All mains shall use a service saddle. CI and DI mains may be direct tap only with the written permission of the University Utilities Department.
- E. New/Replacement 1" water service shall be copper or iron pipe size (IPS). New/Replacement 2" water service shall be copper or copper tubing size (CTS) polyethylene.
- F. All new services or service replacements shall be 1" or 2". Any 3/4" or 1 1/2" services shall be upgraded to the next size (1" or 2") and an adaptor installed at the meter.
- G. If service replacement includes the tap at the main, the new connection shall be made 12" from the old connection. The old corp stop shall be closed and a threaded brass plug or cap installed.
- H. Any boxes which do not meet the current standards listed below shall be upgraded to those standards.
- I. Contractor shall ensure tubing is "bottomed out" in all Super Grip (SG) fittings while tightening.
- J. When recycled water is used on any parcel, a backflow preventer shall be installed on the potable water service line.
- K. When replacing an existing service line, the customer valve is not required to be replaced.
- L. Open trench water service replacements shall be installed perpendicular to the existing water main, when as measured along the main, the existing water service is offset 5' or more from perpendicular.

INSTALLATION NOTES:

- ① Service saddle, double strap, CC threads: Installed per manufacturer's recommendations.
AC, CI and DIP main: Ford F202B Series
PVC Main: Ford F202BS Series
- ② Corporation Stop, ball type, CCxMIP:
1" - Ford FB400-4-NL
2" - Ford FB400-7-NL
- ③ 45° Bend, brass, FIPxFIP
- ④ Adaptor with sleeve:
1" for CTS tubing - Ford C84-44-Q-NL and 52 Insert
1" for IPS tubing - Ford C84-44-Q-NL and 5272 Insert
2" - Ford C84-77-Q-NL and 55 Insert

- ⑤ Service Tubing:
5C - Copper, type K, soft
5P - Polyethylene, 200 psi, AWWA C901 Centennial, Driscopipe or approved equal.
Service tubing for recycled water shall be purple or have a purple stripe or be wrapped in purple polyethylene sleeve conforming to AWWA A21.5 and shall be clearly labeled as non-potable.
- ⑥ Coupling 2": Ford C44-77-Q-NL, compression x compression, tube size.
- ⑦ 7A - 2" 90° bend, brass 2" MIP x Comp 90, Ford L84-77-Q-NL, tube size
7B - 90° bend, 2" Comp x Comp 90, Ford L44-77-Q-NL, tube size
- ⑧ Meter Box Valves:
8A (Customer side):
3/4" service - Ford B13-332-HT34-NL
1" service - Ford B13-444-HT34-NL
1 1/2" service - Ford B13-666-HT67S-NL
2" service - Ford B13-777-HT67S-NL
8B (University side):
1" service - Compression meter stop: CTS tubing - Ford KV43-444W-Q-NL; IPS tubing - Ford KV43-444W-NL and C86-44-Q-NL adaptor
2" service - 2" Curb stop, ball valve: Ford BF13-777W-NL, inlet FIP x outlet Meter Flange
- ⑨ Meter box and lid:
3/4" and 1" water meter use Brooks 37 T Series for traffic areas, Armorcast #A6000485SA for non-traffic areas. 1 1/2" and 2" water meter use Armorcast #A6001419SA, Armorcast cover (A6001420TDEB) with drop-in read lid (A6000481T-EB), 20K traffic rating. WHEN USED FOR RECYCLED WATER, all lids shall be integrally cast with the words "Recycled Water" or "Reclaimed Water".
- ⑩ Install PVC sleeve to 12" behind back of sidewalk. 5/8", 3/4", or 1" water meter use 2" sleeve. 1 1/2" or 2" water meter use 3" sleeve.
- ⑪ #4 rebar all around the meter box
- ⑫ Meter adaptor (as needed): 1" City valve to 3/4" Customer valve use Jones J-128H or Ford A24. 2" City valve to 3/4" Customer valve use Ford A67.
- ⑬ When meter box is to be installed in landscaped area, a 4" thick concrete apron shall be placed for a minimum of 12" around the box.
- ⑭ Install Recycled Water warning tags per Engineering Standard 8810 when used for recycled water.
- ⑮ Water services serving corner lots or services serving units behind other units shall be designated to an address and/or unit by attaching a 1 1/2" brass tag with 1/4" minimum letters/numbers to the curb stop with a non-ferrous wire.

APPROVED EQUAL ACCEPTED FOR ALL FITTINGS

SCALE: N.T.S.

STANDARD CURRENT AS OF:	01/17/2020
APPROVED BY:	XX
NOTES:	



**WATER SERVICES
NEW & REPLACEMENTS**