

Specifications for Utility Service Materials to be Installed by Homeowner

Water Services - Copper

- A. Service Saddles: All taps shall be installed with a pipe saddle. Saddles shall have an "o" ring seal between pipe and saddle and shall be Ford Style S90, or equal.
- B. Curb Stops: As required for service size and material, including any necessary reducers. Brass, minimum size 1 inch. Ford B44-444NL (Pack Joint Both Ends) or equal.
- C. Curb Boxes: Ford EM2-55-46-48R, Minneapolis Pattern, length 5.5 feet (or deeper as required to connect to existing water service), with plug style lid, 1 ½" tapped base, 1" upper section, and stationary rod, or equal. Provide equivalent product with 2" base thread for 2" curb stops. Install permanent stake or post near curb box such that it can be easily located.
- D. Corporation Stop: Ford F1000 (3/4"), or equal.
- E. Copper Water Service Pipe: Water service pipe shall be type "K" seamless soft-drawn copper tubing which conforms to the requirements of ASTM B898. Fittings: ASME B16.26, cast bronze fittings; flared-end joints.
- F. Refer to attached "Typical Service Connection Detail" for Water Service Installation.

Water Service - Polyethylene

- A. Polyethylene Tubing: SDR9, 200 psi with OD conforming to between ¾" and 2" copper tube size. Conforming with AWWA C901. "Eagle Pure-Core," "Blue HDPE Pipe," or equal.
 - 1. No splices or couplings allowed in tubing runs.
 - 2. Fittings: AWWA C901 Brass.
 - 3. Joints: Compression with Stainless Steel Inserts.
- B. Curb Stop Boxes: Buffalo Type Arch Box with Hex Nut in Lid.
- C. Saddles Corporation Stops and Curb Stops.
 - 1. Saddles: To be 1" Ford Bronze Saddles or Equal with AWWA Tapered Threads.
 - 2. Corporations: To be 1" AWWA C800, Brass Body Inlet to be AWWA Taper, outlet compression Ford or Equal. All services unless otherwise noted on the plans.
 - 3. Curb Stop: To be 1" AWWA C800, Bronze Body, ASTM B62, compression connection Arch Pattern – No Exceptions.

- D. Refer to attached "Typical Service Connection Detail" for Water Service Installation.

Residential Water Meter

- A. Residential water meter shall be Senus Iperl. Meter shall be installed with backflow prevention / double check valve. Meter shall include a LCD display on the meter itself to be read inside the house.

Sewer Services

- A. Refer to attached "Typical Lateral Assembly" and "Typical Service Stub-Out Installation Details" for Sewer Service Installation. Install permanent stake or post near valve box such that it can be easily located.

Grinder Sewage Pumps

- A. Grinder Sewage Pumps shall be "E-One DH071-124" for homes without hot tubs and "E-One DH151-129" for homes with hot tubs. Provide candy cane vent with perforated vent screen to prevent intrusion of sand. Installation shall be per manufactures recommendations and include all controls and alarm. Each unit shall include a pump run time meter. Pumps can be ordered by contacting Electric Pump at 800-383-7867. Units shall be installed by a qualified installer. Units need to be assessable for maintenance and for proper venting. Units shall not be buried or obstructed by landscaping.

Water Quality

- A. The water at Sandy Pointe contains high levels of iron and manganese. In addition, iron bacteria may be present. Iron bacteria is not harmful but can produce odors in the water. In home water treatment is advisable. Water quality samples should be taken and provided to water treatment vendors for recommendations on water treatment systems. Recommended water treatment vendors are as follows:

AquaSystems	Quality Water Services
Contact: Jeff White 5501 N. 58 th Court, Suite 100 Lincoln, NE 68507 402-466-6800 www.aquasystemsne.com	Contact: Rich Lorenzen 1700 Saltillo Road Roca, NE 68430 402-423-0909 www.qualitywaterservices.com

Utility Service Installation & Inspection

- A. All utility services shall be inspected by People Service, Duane Grashorn at 402-614-8488.
- B. People Service is also available to install the water and sewer services including the E-One grinder system. Contact Duane Grashorn at 402-614-8488.