

NORTH SPRINGBANK WATER CO-OP LIMITED
196 LARIAT LOOP, CALGARY, AB T3Z 1G1 (403) 286-8396

CONSTRUCTION SPECIFICATIONS FOR CONNECTION

To North Springbank Water Co-op Water Lines

MATERIALS: All materials used must be CSA approved.

PIPE - Polybutylene tubing: to CSA B137.1, Series 160 or Polyethylene (Pe) Tubing: To B137.1 Series 160, for potable water.

JOINTS - Brass compression type and stainless inserts; suitable for 1 MPA working pressure.

SERVICE SADDLES - Double Strap bronze, stainless steel saddles of 1 MPA working pressure; Rockwell model 323 or equivalent.

MAIN STOPS - Brass corporation stop: Red brass to AWWA C800 with threaded inlet and compression type outlet.

CURB STOPS and BOXES - Red brass inverted key curb stop with compression type inlet and outlet. Extension type service box including cast iron bottom box, pipe casting, pipe top box, cast lid and stainless rod. Exterior surfaces to be coated with a protective coating.

WATER METERS - All meters (whether a new install or replacement meter) shall be a T-10 E-coder Neptune meter along with a R900i radio frequency meter interface unit. The meter shall be mounted in a horizontal position with the meter head up. The radio unit shall be installed in a location such that the meter may be read from outside the property.

Owner/Developers are responsible for the purchase and installation cost of the water meter and radio unit. The metering equipment can be purchased from the Water Co-op.

INSTALLATION SPECIFICATIONS:

All costs associated with connecting to the water system are at the expense of the owner/developer of the property. When the distance from the main supply line to the meter is less than 500 feet, a minimum curb stop and pipe diameter of 1-1/2 inches OD is required. For a distance greater than 500 feet the minimum size required is 2 inches OD.

The pipe must be buried to a minimum depth of 8 feet. Pipes must be protected from

damage by rocks, gravel, frozen lumps, etc., by 3 inches of tamped sand under the pipe and 3 inches of tamped sand above the pipe, or by suitable material approved by the Co-op. Back fill shall be tamped to prevent future settling and covered with two inches of loam ready for seeding.

Where the pipe passes under a road, a building foundation, through a wall or floor, the pipe must be protected by a sleeve of plastic pipe or the equivalent.

Curb stops and service boxes should be installed within three feet inside the property line. It may not be installed in the road allowance right of way. Should the Co-op's mainline "right-of-way" be on the property being serviced, then the curb stop should be 3 feet from the mainline. The piping should form a "gooseneck" in the horizontal plane at the corporation stop. Curb stops to be supported on a concrete base or treated wood. Set plumb and adjust to grade level.

Drilling and tapping into the water mains under pressure must be done using a tapping machine, leaving no protrusions into the main. Tap into upper half of water main with a slight upper incline.

CONTRACTORS:

Work must be done by a contractor approved by the Co-op. The contractor must be bondable, and a bond may be required.

INSPECTION:

The Co-op must be notified, and approve, the time and date the work is to be done. The "tie-in" to the mainline and road crossings is to be approved by the inspector for the Co-op. The trench and line to be inspected prior to backfilling.

Upon completion of the installation, the inspector will inspect the interior piping and seal the water meter.

Water service to a new installation is to be turned on only by a representative of the North Springbank Water Co-op.

In addition to the requirements contained here-in, all work shall be in accordance with engineering drawings approved by Rockyview County, and in accordance with all relevant specifications enforced by the County.

Barry Okabe
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North Springbank Water Co-op
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