

TOWN OF CLARENDON
WATER SERVICE MATERIAL & CONSTRUCTION SPECIFICATIONS
(Adopted 2/13/1996. Rev 4/9/1996; Rev 4/14/1998; Rev 11/10/1998)
(As Revised 12/14/1999; Rev 6/11/2002; Rev 5/13/2003; Rev 10/18/2011)

PART I GENERAL

- A. Minimum nominal water service diameter shall be one inch. Where possible, water services shall be laid in a straight line from the curb stop to the building. Where the distance from the curb stop to the water meter is less than 400 feet, no joints in the water service will be allowed. Where the distance from the curb stop to the water meter is greater than 400 feet, one joint every 400 feet shall be allowed. *(Rev. 10/18/2011)*
- B. Buried water meter boxes will be required for water services where the distance from the curb stop to the building is greater than 400 feet or in sites where access to read meters is limited. The property owner will be responsible for the additional cost associated with the installation of the meter box. Property owners are urged to meet the above water service to minimize leaks and costly water loss. *(Rev. 10/18/2011)*
- C. Buried water meter boxes will be required for water services where the home/trailer is built on an unheated crawl space.
- D. A maximum of three water services will be allowed on one 2" line. *(Rev. 5/13/2003)*

PART II PRODUCTS

2.01 COPPER TUBING

- A. Tubing: ASTM B 88, Type K, soft temper.
- B. Fittings: Cast bronze, Compression type for CTS connections, ANSI/AWWA C800, latest revision.

2.02 HIGH DENSITY POLYETHYLENE (HDPE) TUBING

- A. Tubing: shall meet the requirements of ASTM D2513 and shall have an outside diameter equivalent to copper tubing of the same nominal size. Tubing shall be ASR 11 CTS tubing.
- B. Fittings: Cast bronze, Compression type for CTS connections, ANSI/AWWA C800, latest revision.
- C. HDPE tubing may be joined via heat fusion in accordance with the requirements of Title 49 of the Code of Federal Regulations Section 192.295.
- D. Tracing Metallic Tape: Six (6) inch wide metallic tape shall be installed on top of entire water service from the curb box to the building. The tape shall be blue in color and be clearly imprinted with "*Caution Water Line Below*".

The tape shall be detected/located by either conductive or inductive location techniques. The tape shall have a 35 gauge solid aluminum core encapsulated within a 2.55 mil polyethylene backing and a 0.6 mil coating. The tape shall have a 150 pound tensile strength.

2.03 WATER METER

- A. The water meter will be supplied by the Town

2.04 VALVES

- A. Hook-up line inside the building will include the following valves:
Meter Valve; Double (Dual) Check Valve; Pressure Reducer; ¼ Turn Valve
Reference diagram of "Typical Hook-Up" attached.

PART 3 EXECUTION

3.01 INSTALLATION

A. Laying Tubing:

1. Minimum depth: Four (4) Feet, measured from finished or existing grade, whichever is lower: *(rev. 6/11/2002)*.
 - (a) Minimum depth may be decreased upon a showing of conditions making it impractical to install service at a depth of at least 4 feet, upon execution by owner of a waiver of all responsibility on the part of the Town or Water District in an agreement form, established by the Water Superintendent. *(rev. 6/11/2002)*
2. Where possible, lay tubing on a continuously rising grade to high point where air can be released.

B. Assembling Tubing:

1. Cut tube ends square using wheel type tubing cutter – DO NOT USE SAWS;
2. Remove all burrs and metal chips;
3. Slip fitting on tubing;
4. Assemble tubing fittings and tighten coupling nuts with two wrenches, one on the nut and one on the fitting;
5. On plastic tubing, be sure to use metal inserts in both ends of the tubing.

C. Protecting Tubing:

1. Close all open ends of tubing and fittings with removable plugs.

D. Backfilling:

1. Lay piping on firm sand, minimum of 6 inches deep. After installing the pipe and making the joints, tap sand under the haunches and alongside the pipe. This compaction shall continue until the backfill is constructed to a depth of at least equivalent to the 6 inches over the pipe; **OR** install pipe inside a piece of schedule 40 PVC.
Contact Water Superintendent for First Inspection. No water service will be turned on until the Installation has been inspected

and approved – PRIOR TO BACKFILLING – by the Town of Clarendon Water District Superintendent or his Agent.

2. Following this operation, the trench may be backfilled by machine using extreme caution to prevent damage to the pipe because of shock loads. Assign a responsible person to supervise this operations. Position supervisor so that he can observe the backfill material as it is pushed into the trench.
3. Tracing Metallic Tap for *ALL* Water Services: Six (6) inch wide metallic tape shall be installed on top of entire water service from curb box to the building. The tape shall be placed between 9 and 18 inches below finished grade.
4. When the meter is installed, the Water District Representative is required to make sure that all other sources of water supply are *completely* disconnected from piping being served by the new service in compliance with the New York State Department of Health and the New York State Sanitary Code Chapter 5, Regulation 12. **Failure to comply with this requirement, will necessitate termination of service under the law.**

3.02 TESTING

- A. Test tubing, fittings, valves or other appurtenances to 100 PSI hydrostatic pressure. Protect tubing from movement during test and make all leaky joints tight. Repeat the test after the repairs are made until no leaks develop with the line is subjected to the required pressure for a period of 30 minutes.
- B. All tests shall be made in such manner as directed by the Town and in their presence.

3.03 DISINFECTION

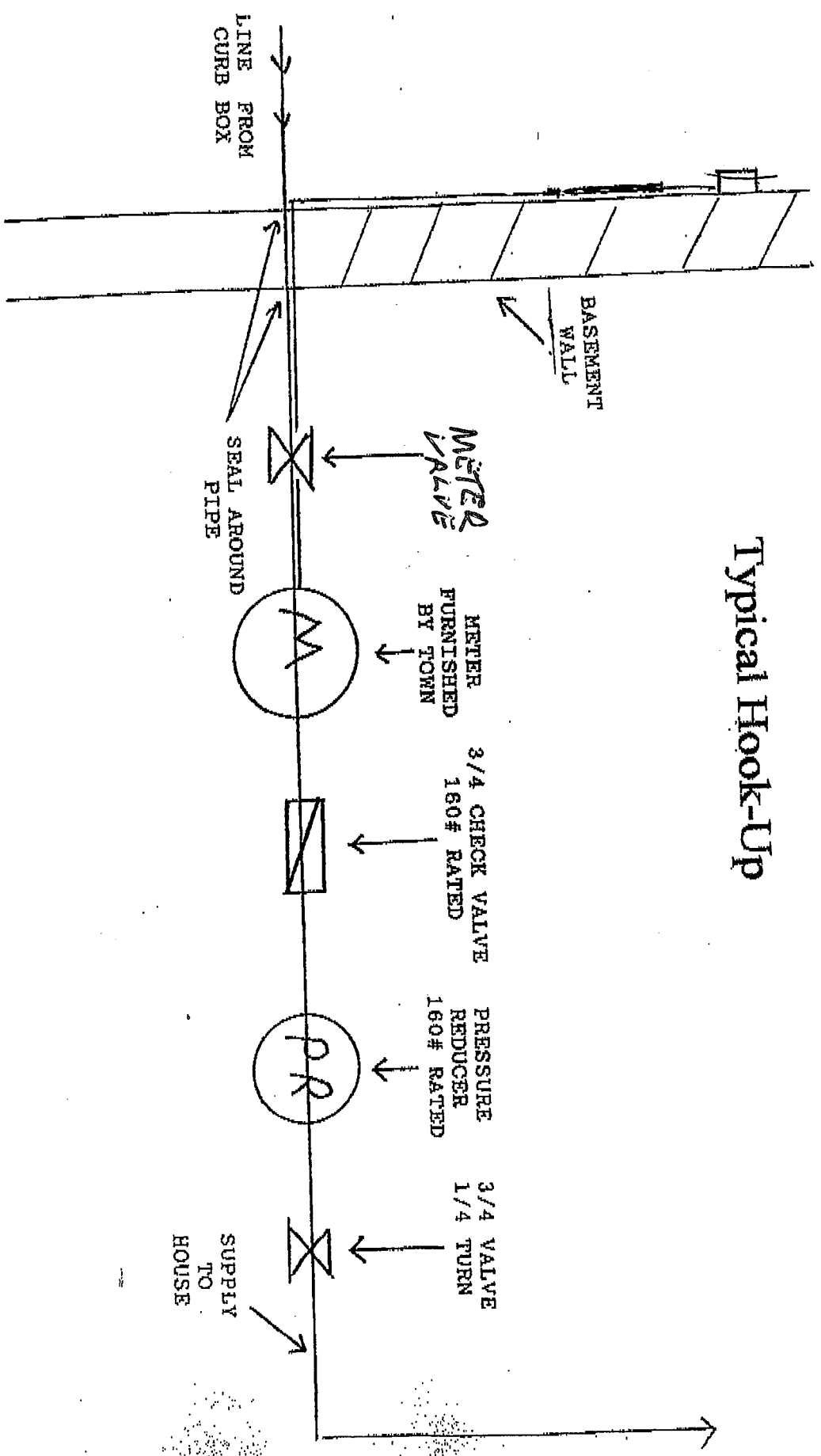
- A. After completion of the hydrostatic test, disinfect all piping and fittings.

3.04 INSPECTIONS

- A. First Inspection – Prior to backfilling. Meter will be supplied by the Town at this time.
- B. Second / Final Inspection – After everything is completed.

End of Section.

Typical Hook-Up



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