

W-9 WATER MAIN AND WATER SERVICE SPECIFICATIONS

Water Main. Water main shall be 8" minimum, Class 52 Ductile Iron Pipe, Domestic Only.

Main and Hydrant Auxiliary Valves. All valves shall be Clow or Mueller resilient wedge gate valves, open left.

Valve Vaults. Valves boxes shall be Tyler cast iron or approved equal with rubber valve box stabilizer.

Fire Hydrants. Accepted hydrants shall be Clow Medallion, F-2545 or Mueller Centurion, A-428, only. All hydrants shall be as follows:

1. 6' - 6" bury depth;
2. Valve attached, installed with valve box with rubber stabilizer;
3. A 1 1/2" pentagon operating nut;
4. Two 2 1/2" and one 4 1/2" nozzles;
5. Color shall be red; and
6. Mechanical joint.

Restraining Devices. Restraining devices shall be Megalug type, no substitutions.

Valve Insertions and Line Stops. All valve insertions and line stops must be approved by the Village of Spring Grove.

Water Main Casing Spacers. Casing spacers shall be Cascade #CCS, or approved equal.

Water Main Bedding and Coverage. Bedding shall be CA-6 placed a minimum of 6" below the bottom of the water main. Coverage shall be CA-6 placed at least 6" above the top of the water main unless the trench is within 3' of the roadway, then complete coverage to the top of the excavation is required.

Landscaping Restoration. Final grade shall meet existing grade and shall be of at least 8" of topsoil, grass seed, and excelsior blanket or sod as determined by the Village of Spring Grove.

Other landscaping including but not limited to trees, shrubs, retaining walls, decorative landscaping items, etc. will be determined on as case by case basis.

Water Main Tapping Sleeves. Pressure taps to existing water mains shall use the following approved sleeves, no substitutes:

1. Smith Blair, #665; and
2. Cascade, CST-EX.

Mechanical Fittings. All mechanical joints fittings shall be Ductile Iron Class 250, domestic only, with stainless steel nuts and bolts. Mechanical joint fittings shall be installed with Megalug restraining devices.

Water Services. All residential water service lines shall be a minimum of 1" type K copper. Services shall be one (1) continuous piece of copper from the corporation stop to the b-box and one piece of continuous copper from b-box to the shut-off valve inside the residence. All 1" services shall be direct tapped. Water services sized between 1 ¼" through 2" shall be type K copper and use approved tapping saddles. All water service line 3" or greater shall be installed via pressure tap using approved sleeve.

Corporation Stops. A.Y. McDonald; 4701 B – Flare or 4701 BQ - Compression

Curb Stops. A.Y. McDonald; 6104 – Flare or 6104 Q - Compression

B-Boxes. B-boxes shall have a minimum 6' bury depth (max 8' under pavement), no risers shall be accepted.

A.Y. McDonald; 5614 – Minneapolis Style w/ 1 ¼" Upper Sections.
 5615 – Minneapolis Style w/ 1 ¼" Upper Sections.

Tapping Saddles. Water services 1 ¼" to 2" shall use approved tapping saddles as follows: Smith Blair #317 or Cascade, CST-EX only.

Repair Sleeves. Repair sleeves shall be full circle, all stainless steel. Approved sleeves are Smith Blair #261 or Cascade CR1 only.

Water Main Testing. All new water mains and water services 3" and greater shall be tested as follows:

1. Pressure tested at a minimum of 100 psi for one (1) hour, with no loss of pressure;
2. Chlorinated per IEPA and AWWA Specifications;
3. Bacteriological sampling and analysis shall be based upon IEPA requirements and specifications.

All new water mains, hydrants and water services 3" and greater shall not be put into service until all testing requirements are fulfilled and required permits are issued by the Village of Spring Grove.