

**REQUIREMENTS FOR WATER SERVICE OR
FIRELINE INSTALLATION**
Village of Menomonee Falls Water Utility

PLAN SUBMITTAL

- The Water Utility requires two (2) copies of plans for review.
- All plans must show detailed locations of valves, bends, tees and location of riser inside the building to include any crossing of storm or sanitary sewer lines.
- All water laterals and/or firelines to be installed must be submitted to the Water Utility for review and approval prior to work starting.

NOTE: All changes to original plans will need to be resubmitted for Water Utility approval.

FIELD REQUIREMENTS

- A twenty-four (24) hour notice is required for inspection of all fittings, valves, and water main prior to installation.
- Water main or lateral installation may not begin until footings of building are installed.
- When installing a fireline only, a licensed sprinkler fitter is required to be on site.
- All valves to be operated by Water Utility personnel only.

TAPPING

- Forty-eight (48) hour notice is required prior to a tap. Contact the Water Utility at 262-532-4800 by 8:00 a.m. on day of tap to confirm tap due to possible cancellation, and so valving and throttling of watermains can be done in a timely manner as to avoid any damage to the utility facilities.
- The Water Utility requires a new tapping bit.
- Tapping saddles of four inch (4") thru twenty inch (20") will require testing before tapping by filling test plug with water and pressurized with air to eighty (80) PSI.
- All taps require tapping saddles. (See Material Specification List #9).

NOTE: Contractor to notify Water Utility for inspection before backfilling of all taps.

UNDERGROUND REQUIREMENTS

- All material must be inspected before backfilling. Failure to do so will require you to dig up for inspection.
- All water main and/or laterals must be installed at minimum six feet (6') bury depth.
- Plastic wrap on all fittings and valve boxes required.
- Firelines entering through a wall must be rodded back to the last twenty foot (20') bell clamp or wall clamp required. (See Material Specification List #5).
- Risers must be ductile iron only.
- No extensions on risers below grade.
- Concrete buttress required behind all bends.

- Megalugs and rods are required on spool piece.
- Ten (10) gauge solid tracer wire required from point of connection to inside.

PRESSURE TESTING

- Twenty-four (24) hour prior notification for a pressure test.
- A fireline test must be pumped up to test pressure by 12:45 p.m. the day of test.
- All mains four inch (4") thru twenty inch (20") require a 200 PSI pressure test for two (2) hours.
- No leakage test allowed.
- Only hydrostatic tests will be accepted.
- Only liquid filled gauge rated for over 200 PSI will be accepted. Gauge must be on tested portion separate from pump.

NOTE: Water Utility personnel must be present to witness test.

FILLING OF WATER MAINS

- Call the Water Utility office at **(262) 532-4800** to arrange for all valving.
- Water for filling, testing and flushing will be supplied only with permission of the Water Utility.

FLUSHING

- Contact Water Utility to set up appointment time for flush. Water Utility will then coordinate with Fire Department.
- All water mains four (4") inch thru twenty (20") inch are required to have a line flush to remove debris from line per NFPA 24.
- No hook-up to the riser until a witnessed flush is completed and a safe sample has been returned.
- It is the contractor's responsibility for a water sample to be taken at time of flushing.
- Fire Department personnel must be present with Water Utility personnel during flushing.
- NFPA form 9-2.1 to be filled out and submitted at this time.

Hose Size requirements for flushing.

<u>Water Main Size</u>	<u>Hose Size Required</u>
4" thru 6"	3 inch
8"	4 inch
10" thru 12"	6 inch

Per NFPA Table 9-1.1

- MJ cap required to be bolted on riser flange after each flush.
- An individual holding a valid underground restricted, master plumber or sprinkler fitter license must be on site.
- All testing and flushing must be completed within a three (3) month period of original application.

SAMPLING

- Safe water sample required and in writing prior to meter issuance and water turn on.
- Results from a certified state laboratory must be faxed ((262) 532-4809) within three (3) days of taking sample.

CHECK VALVES

- Copy of the Wisconsin cross Connection Control Device Performance test sheet showing approved test results submitted to the Water Utility prior to meter issuance.
- All double check valve units require leak detector meter.

FIRE HYDRANTS

- All hydrants must be installed per Menomonee Falls Water Utility specification.
- All **private** hydrants are required to be yellow in color.
- For a building requiring one hydrant, the hydrant may be installed directly off of fireline. No metering required. (Contact Water Utility for details).
- For a building requiring two or more hydrants metering is required. (Contact Water Utility for details).

METER PIT

- A meter pit is required at the lot line where laterals exceed three hundred (300) feet to building.

*Randal L. Hager
Water Utility Superintendent*