



City of Granbury Specifications for the Installation of Fire Line Underground Piping and Back Flow Preventers

Installation of Fire Line underground piping shall be done by Certified Fire Line Contractor or licensed utility contractor through the State Fire Marshal's Office. Contractor must be registered with the City of Granbury, show proof of insurance with the City of Granbury as certificate holder, along with copy of the license of the installer.

Permits

The company awarded contract shall pull permit with the City of Granbury, be registered with the City of Granbury, and be licensed through the State of Texas to install Fire Line underground piping. Contractors may register and apply permit via [OpenGov](#)

Inspections

Inspection requests may be submitted via [OpenGov](#). All Fire Line underground will be inspected by the Fire Marshal. All piping shall be inspected prior to any cover being placed. All lines shall have bedding sand, with tracer wire (solid core) tapped to top of pipe.

Drawings

There shall be one (1) set of drawings submitted to the Fire Marshal for review along with hydraulic calculations and specifications of system or systems. Plans should be mailed or delivered to 116 W. Bridge St. Granbury, TX. 76048.

Flow Calculations

Flow calculations of mains shall be obtained by the company awarded contract. Neither the City of Granbury nor the Granbury Volunteer Fire Department supplies flow calculations. When coming into the City of Granbury to do flow test the company must submit the request via [OpenGov](#)

Vaults with Backflow Prevention

The vault shall have 1" gravel approximately 12" to 16" in depth under the vault for proper drainage of the vault. All valves shall have proper clearance from the lid and sides. NO CONCRETE BLOCK TYPE VAULTS. If vaults are placed in parking area or drive area, they shall have traffic impact type lids.

A ladder shall be mounted on the wall of the vault for ingress / egress purposes; ladder shall have clearance from walls to rungs at no less than 4".

See Policy for the Installation of Public & Private Improvements, Section 9 page 15.

Main line shall be tapped with using a stainless-steel swivel T and mega lugs. There shall be a valve at the swivel T with a square type nut shut-off. There shall be a 2'x2' concrete pad around the valve box. The cover of the valve box shall be painted **RED** in color designating a Fire Line.

Hydrostatic Test

Hydrostatic test of both the main Fire Line and FDC line will be require. The test will be conducted at 200 PSI for two (2) hours. Coordinate with General Contractor for any water runoff due to flushing.

Piping

All piping shall be installed to specifications of NFPA 13. All taps on existing lines shall be done with a stainless-steel tapping saddle. All lines that turn or have cast iron connections shall be connected with mega lugs. They shall be covered with plastic tube or asphalt type sealer. The plastic shall be sealed with tape.

FDC Connections

FDC connections shall be integrated in the vault. (See specs). FDC connection shall be no more than 32" above finish grade.

- The FDC caps shall be 5" Knox locking caps.
- Paint the pipe **RED** from ground level to FDC brass or Storz connection.

FIRE HYDRANTS- There shall be a fire hydrant located within 100 feet of the Fire Department Connection. The Fire Marshal may make exceptions when an existing hydrant is reasonably close.