



PRIVATE FIRE SERVICE UNDERGROUND FLUSHING REQUIREMENTS

SCOPE:

This guideline provides the guidelines for all Private Fire Service Underground inspections within the City of Rocklin. For the purposes of this guideline, certain terms are defined as follows:

PERMIT FEES:

Permit fees shall be assessed in accordance with the Permit Fee Schedule as adopted in the City of Rocklin. One inspection is included in the base rate for the permit acquired. Each subsequent inspection or phased inspections will be assessed at the current reinspection hourly rate.

OPERATIONAL STANDARDS:

Underground Flushes for Private Fire Service Systems shall comply with all requirements listed below and within the current California-adopted NFPA 24 as amended.

NFPA 24 REQUIREMENTS:

10.10.2.1.1: Underground piping, from the water supply to the system riser, and lead-in connections to the system riser, including all hydrants, shall be completely flushed before the connection is made to the downstream fire protection system piping.

10.10.2.1.2: The flushing operation shall be continued until the water flow is verified to be clear of debris.

10.10.2.1.3: The minimum flow rate shall be in accordance with Table 10.10.2.1.3.

10.10.2.1.3.1: Where the flow rates established in Table 10.10.2.1.3 are not attainable, the maximum flow rate available to the system shall be acceptable.

CITY OF ROCKLIN REQUIREMENTS:

1. Contractors shall have the appropriate tools and equipment on-site to complete a flush of all piping and hydrants.

2. In the case of multiple hydrants or risers, a minimum of two (2) appurtenances shall be connected and ready to flush. A minimum of two (2) replacement hoses, along with additional burlap sacks (or equivalent), shall be available on site.
 - 4" pipe shall be flushed through a minimum of one (1) 4" hose or two (2) 2 ½" hoses.
 - 6" pipe shall be flushed through a minimum of one (1) 4" hose or four (4) 2 ½" hoses.
 - 8" pipe shall be flushed through a minimum of two (2) 4" hoses; one (1) 4" hoses and two (2) 2 ½" hoses; or six (6) 2 ½" hoses.
 - 12" at discretion of the Rocklin Fire Department Fire Marshal or his/her designee.
3. A fire hydrant flush, shall be conducted at all hydrants and witnessed by the Fire Department. Piping shall be flushed until all foreign objects have been discharged and the water is clear. NFPA 24 § 10.10.2.1
4. Adequate drainage shall be available to meet the required flush flow rate.
5. Hose or pipe shall be restrained to prevent injury and damage.
6. A Contractor's Material and Test Certificate for Underground Piping form shall be signed by the installing contractor and owners' representative. A copy of this form shall be provided to the Fire Department prior to final acceptance of the underground installation. NFPA 24 §10.10.1