



Buckeye Fire Department  
Fire Prevention Division

## **Underground Fire Line & Flush Inspection**

1. Verify the installing contractor has a valid City of Buckeye Fire Department “Fire Equipment Contractor Permit” and “On Site Competent Person” with documentation. No fire inspections will be conducted until permit is obtained and competent person documentation is provided.
2. Provide Underground Contractor’s Material and Test Certificate. Certificate shall be provided prior to flush inspection. Flush inspection shall not be conducted without this documentation. This Underground Contractor’s Material and Test Certificate is found in NFPA 24.
3. Consult the approved plans and verify the following:
  - a. Size of piping.
  - b. Type of piping.
  - c. Depth of piping.
  - d. Proper pipe configuration of:
    - i. Thrust blocks.
    - ii. Protective wrap (poly wrap) of piping, including fire riser flange spigot. (Applies to ductile piping only.)
    - iii. Direction changes.
    - iv. Location of:
      1. Verify Double Backflow Assembly.
        - a. Correct direction.
        - b. Monitored tamper switches installed on control valves on double backflow assembly.
      2. Remote Fire Department Connection. (If installed)
        - a. Remote Fire Department Connection shall be located within fifty (50) feet of and on same side of road as a fire hydrant.
        - b. Remote Fire Department Connection shall be located a minimum of forty (40) feet from building.
        - c. If remote Fire Department connection services only one building, then paint supply piping red and stencil the address with four inch white characters.
        - d. If Fire Department Connection servers more than one building, then provide a 12-inch by 18-inch RED background sign with the addresses the Fire Department Connection serves in three inch reflective WHITE characters.
        - e. Verify three foot diameter clearance around Fire Department Connection.



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- f. Fire Department Connection shall be installed between 18 and 48 inches above finish grade and the 2.5 inch ports shall face fire lane.
  - g. Verify that the 2.5 inch approved caps or plugs are installed.
  - h. Verify that swing check valve is installed as close to Fire Department Connection as possible and is installed in correct direction.
3. Fire Hydrants
- a. The large (4.5 inch) port shall be facing directly towards the Fire Lane.
  - b. The bottom of the 4.5 inch port shall be installed between 18 inches and 24 inches above finish grade.
  - c. Verify three (3) foot diameter clearance around fire hydrants.
  - d. Verify blue reflectors are installed centerline of the right away and in direct line of the fire hydrants.
4. Verify that all valves within the system are in the open position, including fire hydrant sectional valves.
  5. Observe hydrostatic test of all piping at 200 psi for 2 hours or 50 psi in excess of system working pressure, whichever is greater.
  6. Relieve pressure after hydrostatic test and confirm the test gauge returns to zero. (A gauge that does not return to zero could be an indication that the gauge is broken or pegged).
  7. Observe flush of all piping with city water until clear and free of all debris.

**NOTE:** Fire lines shall be visible during hydrostatic testing. Center loading of the pipe is acceptable; however, all joints, valves, thrust blocks, and fittings shall be visible. **DO NOT** cover fire line until inspection is approved. The fire department inspection of fire line consists of the fire line supply piping from the inside / outside of the building(s) to the point of connection to the supply water main at street or to water main loop.

Also, if a remote Fire Department connect is installed, then an inspection of the fire line supply piping from the building to the remote Fire Department connection is required.