

# Township of West Goshen Fire Marshal's Office

## **Automatic Fire Sprinkler and Standpipe Inspection Requirements**

All Automatic fire sprinkler and standpipe systems shall be installed per the 2009 International Fire Code as well as the referenced NFPA Standards.

The following inspections are required for all automatic sprinkler and standpipe systems:

### **Underground**

1. All underground piping for the sprinkler and standpipe systems shall be visually inspected before the pipe is covered.
2. All underground piping shall be hydrostatically tested for 200psi for 2 hours with no loss of pressure.
3. Fire service mains (from water supply to the system riser) and the lead-in connections to the system risers shall be completely flushed before connection is made to sprinkler piping.
4. Upon completion of the above mentioned inspections a Contractor's Material and Test Certificate for Underground Piping shall be filled out and submitted to the Fire Marshal's Office.

### **Aboveground**

1. All above ground piping for sprinkler and standpipe systems shall be visually inspected before the pipe is covered.
2. All aboveground piping shall be hydrostatically tested for 200psi for 2 hours with no loss of pressure. In addition to the hydrostatic test dry pipe and double interlock systems shall undergo an air pressure leakage test. The system shall be tested at 40psi for 24 hours. The system shall be permitted to have maximum loss of 1 ½ psi during the test.

### **Final Inspection**

1. Prior to the functional test all fire alarm, tamper and trouble functions must be operable for a successful functional test. It is recommended to have a representative from both the sprinkler and fire alarm contractor present when this test is conducted.

2. Water flow detecting devices including associated flow circuits shall be flow tested through the inspectors test connection and shall result in an audible alarm within 5 minutes after such flow begins and until such flow stops.
3. The main drain valve shall be opened and remain open until system pressure stabilizes. The static and residual pressures shall be recorded on the contractor's test certificate.
4. A working test of the dry pipe valve alone and with a quick opening device, if installed shall be made by opening the inspector's test connection.
5. A hydraulic design information sign shall be supplied and displayed.
6. The installing contractor shall provide the system owner with the following information:
  - a. All literature and instructions provide by the manufacturer describing proper operation and maintenance of any equipment and devices installed.
  - b. A copy of NFPA 25
7. The Fire Department Connections and Standpipe Connection shall be marked with proper signage.
8. All inspections shall be witnessed by the Fire Marshal or a representative.
9. Upon completion of the above mentioned inspections a Contractor's Material and test Certificate for Aboveground Piping shall be filled out and submitted to the Fire Marshal's Office.