



Rough-In Fire Sprinkler Inspection

- Consult the approved plans.
- Verify proper type of piping.
- Verify backflow device (if installed in building) for size, type, and direction.
- Confirm the installation of the piping does not have excessive change of directions that are not indicated on approved plans. (Excessive use of extra fittings, such as elbows may effect hydraulic calculations).
- Proper size of piping.
- All piping penetrations through fire rated assemblies have been properly sealed by an approved method.
- Proper piping hangers and supports with correct spacing.
- Sway bracing is installed per NFPA Code requirements. Sway bracing is required at top of fire riser, turn of directions, and every forty feet on main piping only.
- Proper type and temperature of sprinkler heads.
- Proper clearance of sprinkler heads from obstructions.
- Check for correct distances between sprinkler heads, off of walls, maximum coverage per sprinkler heads, suspended ceilings and distance below roof deck.
- Check for installation of orifice in inspector's test. (Orifice shall be the same size as the smallest orifice installed in the system.)
- Check to ensure fire sprinklers are not painted. Painted fire sprinklers shall be replaced, they shall not be cleaned.
- All control, auxiliary, and inspector's test valves shall not be located more than seven feet above finish floor or grade.
- Minimum 12" x 36" Access panels shall be provided for all valves located inside a wall or concealed space. Signage shall be provided on the outside of access panel indicating type of valve that is concealed within.

- Observe hydrostatic test of all piping at 200 psi for 2 hours or 50 psi in excess of system working pressure which ever is greater.
- 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 was pegged.)
- Verify all signage is in place. (Examples: control valves, inspectors test, and main drain.)
- Verify that spare sprinkler head cabinet is installed in an area that will not exceed 100 degrees Fahrenheit and has inside the correct number of spare sprinkler heads, sprinkler wrench, and NFPA 25.
- Fire Department connection shall be within one hundred feet of a fire hydrant.
- Fire Department connection shall be located on address side of building or located on the building in the fire access approach.
- Signage for fire department connection shall be per NFPA 13 and Lee County requirements.
- Fire Department connection shall be installed between 18 and 48 inches above finish grade.
- Verify that swing check valve is installed as close to Fire Department connection as possible and is installed in correct direction.
- Verify that National Standard Fire Hose threads are installed.
- Verify that the 2.5-inch break away caps are installed.
- Verify Fire Department connection is not blocked by any outside obstructions. (Example: electrical transformers.)