



# RIVERDALE CITY FIRE DEPARTMENT

## AUTOMATIC FIRE SPRINKLER SYSTEM SUBMITTAL

- Fire Sprinkler System Plans must be submitted to a Third Party Review company approved by Riverdale City Fire Department
- System designer qualifications:
  - NICET Level III or better “Water-Based Fire Protection Systems Layout”, or
  - Fire Protection Engineer, or
  - Licensed Engineer with Specific Additional Fire Protection System Training
- Plans must show designer NICET Certification number with signature or Engineer Stamp with signature.
- Design and installation shall be via the most recent version of NFPA 13, NFPA 13-R or NFPA 13-D adopted by the State of Utah.
- Working plans shall be drawn to an indicated scale, on sheets of uniform size, with a plan of each floor.
- Manufacturer cut sheets shall be submitted with the plans.
- Hydraulic calculations shall be submitted with the plans.
- The maximum amount of antifreeze is 150 gallons
- Antifreeze cannot be added to a system without plans specifying type, amount and detail of antifreeze loop, or antifreeze protection per NFPA 13 and Utah State Law.
- When antifreeze is used a tag shall be attached to the riser indicating the date the antifreeze solution was tested. The tag shall also indicate the type and concentration of antifreeze solution by volume with which the system is filled, the date the antifreeze was replaced if applicable, the name of the contractor that tested and/or replaced the antifreeze solution, the contractor’s license number, a statement indicating if the entire system was drained and replaced with antifreeze, and a warning to test the concentration of the antifreeze solutions at yearly intervals.
- A remote post indicator valve is required where a door does not lead directly into the riser room from outside the building.
- All post indicator valves shall be supervised. Where assessable to the public they shall be locked via chained with a Knox brand padlock.
- Any fire sprinkler system where system hazard classification design changes, requires a new permit and third party plan review.
- Any fire sprinkler system with 20 or more fire sprinkler heads (with the exception of 13-D and some 13-R systems) requires remote monitoring from an approved monitoring company.
- A sign, “**RISER ROOM**” shall be placed on or adjacent to the outside of the door leading into the riser room. Minimum 1 inch red letters, white contrasting background or other approved.
- Remote “up-right type or periscope type” fire department connections shall only be required upon owner request (when approved), when required by the AHJ, or where specified on plans for high-rise type buildings.