



Automatic Fire Sprinkler Plan Submittal Checklist

Title Block Information

- Please attached the Colorado Division of Fire Safety Registration Form
- Owner name
- Occupant name
- Approved street address
- Name, address, telephone number, fax number and e-mail address of fire sprinkler installation contractor
- Signature/Seal that a qualified person holding either a NICET Level III/IV certification in fire sprinkler systems or a licensed State of Colorado Professional Engineer
- Point of compass on each page
- Scale and graphical representation
- A detailed explanation of the scope of work
- List of codes and edition dates that were used to design the system

Building Information

- Full height scaled elevations and cross sections of the building including all structural information and ceiling construction
- Locations of partitions, fire wall and/or area separation walls and rating classifications
- Occupancy classification of each area/room
- Hazard/Commodity classification of each area/room
- Locations of combustible concealed spaces, closets, attics and bathrooms
- Locations of questionable areas where sprinklers have been intentionally omitted. NOTE: A code reference shall be provided for all areas sprinklers are omitted

Water Supply Information

- Assurance of looped water supply
- Size of water supply main or storage tank
- Modeled theoretical available water supply
- Underground pipe size, length, location, material and point of connection to dependable water supply

Fire Sprinkler System Information

- Sprinkler Legend to include: sprinkler make, type, temperature rating, K-factor, SIN and nominal orifice size of sprinklers. Sprinkler head spacing dimensions and the listed spacing used for special sprinklers



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- Piping Legend to include: pipe type, schedule of wall thickness and actual interior diameter
- Temperature rating and location of high temperature sprinklers
- Area protected by each system on each floor and total area being protected
- Number of sprinkler on each riser per floor and total number of sprinklers per building (Total number of sprinklers on each type of standalone system shall also be indicated)
- Calculated capacity in gallons of each dry pipe and/or pre-action
- Type and amount of antifreeze solution used
- Complete detail of riser assembly
- Location, size and piping arrangement of Fire Department Connection (FDC) including notification appliances
- Manufacture, type and size of backflow preventers
- Location and type (wet/dry, automatic/manual) of standpipe risers, outlets/valves and related equipment
- Location and detail of all control valves, check valves, drain pipes and test connections
- Make, type, model and size of all alarm, dry, pre-action and deluge valves
- Size, type and setting of all pressure reducing valves
- Fire pump type (make and model), capacity, speed, rated net pressure, diameter of impeller, inlet and outlet diameters, fuel or electric requirements and location
- Nominal pipe size and cut lengths of pipe (center-to-center dimensions)
- Type of fitting, location and size of riser nipples, size of welds and bends
- Type and locations of pipe hangers, inserts and sleeves
- Location of inspectors test connection and location of disconnect
- Piping provisions for flushing
- Sufficient information shall be provided when submitting system additions so as to ensure that the existing system will adequately support the increased demand
- Hydraulic reference corresponding with comparable reference points of the hydraulic calculation sheets
- System design criteria showing minimum density, the design area and the required water flow for hose streams. Indicate the total water and pressure required
- For hydraulically designs systems, provide all the information that will be included on the hydraulic name plate to be attached to the riser
- Any adjustments to the design area(s) or density (ies) based upon code provisions
- Relative elevations of sprinklers, junction points and supply or reference points

(Manufacture data/cut sheets shall be provided with all fire sprinkler plan submittals)