



CITY OF MOORE OFFICE OF THE FIRE MARSHAL

INFORMATION REQUIRED FOR FIRE SUPPRESSION PLAN REVIEW

Submittal documents:

- A Plan Review Application must be completed for every submittal. **All items must be filled in completely and accurately or plans will not be accepted.**
- *8 devices or less (no plans required) A scope of work must be provided with the Fire Suppression Application.
- Provide a key plan indicating the area of work being performed as needed. (i.e. Plans on multiple sheets)
- Provide a detailed description of the scope of the work being performed.
- A 10 PSI Safety Margin is required.
- All sprinkler drawings must be developed by or under the direct supervision of an Oklahoma Licensed Fire Sprinkler Manager. The state issued company license number shall be placed on all drawings. Please include the state license number on all drawings. (Oklahoma Alarm Industry Act , Statue title 59 section 1800.1 310:205-3-2)

Size and number of drawings and specifications:

- A minimum of **two** sets of paper drawings. (One for Fire Marshal's Office/ One for Job Site)
- **Two** sets of specifications. **One** set of specifications shall be submitted on CD in PDF format.
- An additional, third set of drawings shall be submitted on a CD in PDF format.
- All plans shall be drawn to scale and the preferred scale utilized shall be a minimum of 1/8 inch equals 1 foot.
- **An approved stamped set of plans and specifications must remain on the job site until final inspection is performed by the Fire Marshal's office. All drawings must be readily available for inspection.**

Shop Drawings:

Drawings shall be submitted for approval to the authority having jurisdiction before any equipment is installed or remodeled. Deviation from approved plans shall require permission of the authority having jurisdiction. Drawings shall be drawn to an indicated scale, on sheets of uniform size as previously indicated, with a plan of each floor, and shall show those items from the following list that pertain to the design of the system:

1. Name of owner and occupant
2. Location, including street address
3. Point of compass

4. Full height cross section, or schematic diagram, including structural member information if required for clarity and including ceiling construction and method of protection for nonmetallic piping
5. Location of partitions
6. Location of fire walls
7. Occupancy class of each area or room
8. Location and size of concealed spaces, closets, attics, and bathrooms
9. Any small enclosures in which no sprinklers are to be installed
10. Size of city main in street and whether dead end or circulating; if dead end, direction and distance to nearest circulating main; and city main test results and system elevation relative to test hydrant
11. Other sources of water supply, with pressure or elevation
12. Make, type, model, and nominal K-factor of sprinklers including sprinkler identification number
13. Temperature rating and location of high-temperature sprinklers
14. Total area protected by each system on each floor
15. Number of sprinklers on each riser per floor
16. Total number of sprinklers on each dry pipe system, preaction system, combined dry pipe-preaction system, or deluge system
17. Approximate capacity in gallons of each dry pipe system
18. Pipe type and schedule of wall thickness
19. Nominal pipe size and cutting lengths of pipe (or center-to-center dimensions). Where typical branch lines prevail, it shall be necessary to size only one typical line
20. Location and size of riser nipples
21. Type of fittings and joints and location of all welds and bends. The contractor shall specify on drawing any sections to be shop welded and the type of fittings or formations to be used
22. Type and locations of hangers, sleeves, braces, and methods of securing sprinklers when applicable
23. All control valves, check valves, drain pipes, and test connections
24. Make, type, model, and size of alarm or dry pipe valve
25. Make, type, model, and size of preaction or deluge valve
26. Kind and location of alarm bells
27. Size and location of standpipe risers, hose outlets, hand hose, monitor nozzles, and related equipment
28. Private fire service main sizes, lengths, locations, weights, materials, point of connection to city main; the sizes, types and locations of valves, valve indicators, regulators, meters, and valve pits; and the depth that the top of the pipe is laid below grade
29. Piping provisions for flushing
30. Where the equipment is to be installed as an addition to an existing system, enough of the existing system indicated on the plans to make all conditions clear
31. For hydraulically designed systems, the information on the hydraulic data nameplate
32. A graphic representation of the scale used on all plans

33. Name and address of the sprinkler contractor and Oklahoma license number.
34. Hydraulic reference points shown on the plan that correspond with comparable reference points on the hydraulic calculation sheets
35. The minimum rate of water application (density), the design area of water application, in-rack sprinkler demand, and the water required for hose streams both inside and outside
36. The total quantity of water and the pressure required noted at a common reference point for each system
37. Relative elevations of sprinklers, junction points, and supply or reference points
38. If room design method is used, all unprotected wall openings throughout the floor protected
39. Calculation of loads for sizing and details of sway bracing
40. The setting for pressure-reducing valves
41. Information about backflow preventers (manufacturer, size, type)
42. Information about antifreeze solution used (type and amount)
43. Size and location of hydrants, showing size and number of outlets and if outlets are to be equipped with independent gate valves. Whether hose houses and equipment are to be provided, and by whom, shall be indicated. Static and residual hydrants that were used in flow tests shall be shown
44. Size, location, and piping arrangement of fire department connections
45. A 10 psi safety margin is required.

The shop drawing submittal shall include the manufacturer's installation instructions for any specially listed equipment, including descriptions, applications, and limitations for any sprinklers, devices, piping, or fittings.

All other fire suppression systems, sub-components and devices such as fire pump installation, hood suppression systems, clean agent systems, foam-water extinguishing or water mist systems shall be submitted with the minimum information required as outlined in the corresponding NFPA Standards.

It is important to remember that no work shall begin until an approved set of plans and a fire suppression permit are on the site at the facility.

Any changes, modifications, addendums, and/or supplemental instructions to the approved set of plans after date of approval will require an approval through the Fire Marshal's Office.