

Arkansas Fire Sprinkler Submittal Guideline

FEMA/USFA/NFA – PLAN REVIEW: SPRINKLER PLANS
September 26, 2007

FIRE SPRINKLER PLANS

National Fire Protection Standard No. 13 "Installation of Sprinkler Systems" requires specific information be included on sprinkler system working plans so the Authority Having Jurisdiction can review them.

Submit a minimum of four (4) sets of plans to the AHJ. If an electronic copy is required then a minimum of three (3) sets shall be submitted. (Contact AHJ)

One hard copy set or pdf will be kept on record with the AHJ.

One set shall be on hand with the installers.

One set shall be retained with the Sprinkler Contractor's Office.

One set shall be left with the owner.

In addition to the plans one (1) set of hydraulic calculations and one (1) set of cut sheets on materials used to be submitted.

Working plans must be drawn to an indicated scale, on sheets of uniform size with a plan of each floor, and must include the following items:

- 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 test results and system elevation relative to test hydrant.
- 11 Other sources of water supply, with pressure or elevation.
- 12 Make, model and nominal K-factor of sprinklers.
- 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 on each 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.