



Sprinkler Plans and Documents Submittal Requirements

Comply with 2015 IFC and 2016 NFPA 13 or 13R

- 1) Drawings must be Stamped/signed/dated by R.M.E.
- 2) Name of owner and/or occupant
- 3) Location, including correct street address
- 4) Site Plan showing all Bldgs on site, FDC's, Streets & Fire Hydrants
- 5) Name, Address and Phone Number of Installing Company
- 6) Name, Address and Phone Number of R.M.E. or P.E. if other than installing company.
- 7) Point of Compass
- 8) Scope of work
- 9) Denton County Requires exterior Audio/Visual notification for water flow on fire sprinkler systems (**note on the plans**)
- 10) Exterior & Interior elevations, including Structural Members information if required for clarity, include ceiling construction and method of protection for nonmetallic piping.
 - a) Ceiling Height & type (ex. Open truss)
 - b) Unobstructed or obstructed construction
 - c) Smooth ceiling
- 11) Location of partitions w/height and location of Fire Walls
- 12) Location of Horizontal Exits
- 13) Location & size of concealed spaces, closets, attics and bathrooms
- 14) Label all rooms or occupancy class of each room or area:
 - a) Light Hazard
 - b) Ordinary Hazard
 - c) Office, Classroom, Computer etc.
- 15) If using Small Rm rule provide room size
- 16) Size of water main at the street and Fire line w/ water supply test results info & date tested
- 17) Make, Model & Nominal K-Factor w/ manufactory spec sheets
 - a) Sprinkler Types being installed w/ coverage dimensions
 - b) Temperature Ratings
 - c) Light Hazard shall be Quick Response
- 18) Number of Sprinkler heads on each riser and on each floor/sheet/bldg.
- 19) For multiple systems (ex. Large warehouses) provide total square ft for each system area
- 20) Approximate capacity in gallons of each Dry Pipe system, Provide Auxiliary Drains
- 21) Nominal Pipe size w/ schedule of Wall thickness w/ manufactory spec sheets
- 22) Sprinkler Position, Location, Spacing and Use:
 - a) Maximum protection area
 - b) Maximum & minimum distance from walls and between heads



- c) Deflector position, Distance below ceilings
 - d) Clearance to storage
 - e) Skylights and if used for Smoke or Heat vents
 - f) Ceiling Pockets
 - g) Etc.
- 23) Type of fittings, vics, joints & location of welds and bends (shall specify on drawings any sections to be shop welded or formation used)
 - 24) Type and Location of Hangers, Sleeves, Braces and methods of Securing
 - 25) All Valves: Control, check, drain and where draining too. Valves other than outside Backflow aboveground or in a vault (can be chained & locked) all others must be electronically monitored
 - 26) Make, type, model and size of Alarm or Dry Pipe valve, Pre-action or Deluge valves
 - 27) Type and Location of Alarm Bell and Sequence of operation
 - 28) Location and Diagram of all Risers w/ pressure Gauges above and Below Check Valve
 - 29) Where the underground pipe inters the bldg. and if done by others
 - 30) For Hydraulically designed systems, information to be on Data Name plate
 - 31) If connecting to an existing system show enough of existing system to make all conditions clear, include existing riser room, Tie-in
 - 32) Provide a proper Architectural scale match door openings
 - 33) The minimum rate of water application (Density) the design area, in-rack demand and the water required for hose streams both inside and outside
 - 34) Relative elevations of Sprinklers, Junction points & supply or reference points
 - a) Distance of Upright Head deflectors below ceiling, deck, etc.
 - b) Distance of Horizontal Sidewall deflectors below ceiling, deck, etc.
 - 35) Settings for PRV's if needed
 - 36) Specs for Backflow Preventers, dry pipe valves, compressors, etc
 - 37) Info & manufactory specs for Anti-freeze systems and solution used
 - 38) Combustibility of Hydraulic Fluid in the elevator pit
 - 39) Size, location & pipe arrangements for the Fire Department Connections (FDC's), must be street front and visible and near the approved fire lane without any obstructions. Must be within 100' of a hydrant.
 - 40) FDC's must have signs per IFC 912.5 & NFPA 13 8.17.2.4.7
 - 41) If Electric Fire Pump involved provide From the Power Company a 24 month power outage report
 - 42) If system is a Gridded system show location of Pressure Relief Devices