## PLAN REVIEW CHECKLIST

Date Documents Submitted: _____

Log No.: _____

File No.: _____

### Property Information

Building Name: _____

Building Address: _____

Owner's Name: _____

Owner's Address: _____

Owner's Phone: _____ Fax: _____ E-mail: _____

### System Designer/Contractor

Company Name: _____

Company Address: _____

Contact Person (Designer): _____

Designer Qualifications: _____

Phone: _____ Fax: _____ E-mail: _____

### General

☐ Yes ☐ No The standard used in the system design and proposed installation is NFPA 13R (If no, utilize NFPA 13 or 13D checklist)

☐ Yes ☐ No Project is a residential occupancy that is four stories or less in height (If no, NFPA 13R cannot be utilized)

New system or a change to an existing system:

☐ New system ☐ Change to existing system

Square footage of the project: _____

Construction type:

☐ Fire resistive ☐ Non-combustible ☐ Ordinary ☐ Heavy timber ☐ Wood frame ☐ Mixed

### Building Use and Occupancy Classification

Applicable building code: _____ Edition: _____

☐ NFPA 13R Edition: _____

☐ Other _____

☐ Sprinkler system required by building or fire code

☐ Fire alarm system required by local ordinances

☐ Fire alarm system required for equivalency, alternative level of protection, etc.

☐ Fire alarm system not required, property owner voluntary safety improvements

☐ Other _____

## Sprinkler Type and Coverage

Type of sprinkler system: ☐ Wet ☐ Dry ☐ Anti-freeze

☐ Yes ☐ No Sprinklers omitted in some areas

☐ Yes ☐ No If yes, omissions allowed per NFPA 13R

Omitted area(s) _____

Area of coverage: ☐ Total ☐ Partial ☐ Other _____

☐ Yes ☐ No All wet piping in areas that are maintained above 40°F

## Fire Pump

☐ Yes ☐ No Fire pump provided

☐ Yes ☐ No Gallon per minute and pressure rating of the pump specified

Type of fire pump: ☐ Electric ☐ Diesel ☐ Gasoline ☐ LPG/LNG ☐ Steam

☐ Yes ☐ No Pump layout in accordance with NFPA 20

## Design Specifications

☐ Yes ☐ No System hydraulically calculated

☐ Yes ☐ No Design area of water application specified

☐ Yes ☐ No All sprinklers, up to four, within the most hydraulically demanding compartment included in the design area

☐ Yes ☐ No Minimum rate of water application (density) specified

☐ Yes ☐ No Minimum density at least 0.05 gpm/ft$^2$ to the design sprinklers

☐ Yes ☐ No Area per sprinkler specified

☐ Yes ☐ No Areas outside of the dwelling unit, such as garages or lobbies, protected in accordance with the design criteria of NFPA 13 or the specific design criteria of NFPA 13R

☐ Yes ☐ No ☐ N/A Limitations (dimension, flow, and pressure) on extended coverage or other listed special sprinklers specified

☐ Yes ☐ No ☐ N/A Domestic demand included, as part of the system demand, for systems with common domestic and fire mains

## Water Supply

*Is the following information provided?*

☐ Yes ☐ No Water test location

☐ Yes ☐ No Date and time of test

☐ Yes ☐ No Static pressure, residual pressure, and flow in gpm

☐ Yes ☐ No Flow test "conducted by" contact information on plans

Size of main indicated ☐ Yes ☐ No ☐ Dead-end main ☐ Looped main

Other sources of water supply, with pressure or elevation: _____

## Private Fire Service Mains

*Is the following information provided?*

☐ Yes ☐ No Sizes of mains

☐ Yes ☐ No Pipe lengths

☐ Yes ☐ No Pipe locations

☐ Yes ☐ No Weights

☐ Yes ☐ No Pipe materials

| | | |
|---|---|---|
| ☐ Yes | ☐ No | Point of connection to city main |
| ☐ Yes | ☐ No | Sizes, types, and locations of valves |
| ☐ Yes | ☐ No | Sizes, types, and locations of valve indicators |
| ☐ Yes | ☐ No | Sizes, types, and locations of regulators |
| ☐ Yes | ☐ No | Sizes, types, and locations of meters |
| ☐ Yes | ☐ No | Sizes, types, and locations of valve pits |
| ☐ Yes | ☐ No | Depth of top of pipe laid below grade |

### Construction

*Is the following construction information provided on plans/specification?*

| | | |
|---|---|---|
| ☐ Yes | ☐ No | Full height cross sectional of structural and ceiling construction |
| ☐ Yes | ☐ No | Location of partitions |
| ☐ Yes | ☐ No | Location of fire walls |
| ☐ Yes | ☐ No | Location and size of concealed spaces, closets, attics, and bathrooms |
| ☐ Yes | ☐ No | Scale used |

### Sprinkler Components

*Is the following sprinkler component information provided on plans/specification?*

| | | | |
|---|---|---|---|
| ☐ Yes | ☐ No | | Make, type, model, nominal K-factor of sprinklers, and sprinkler identification number |
| ☐ Yes | ☐ No | | Temperature rating and location of high-temperature sprinklers |
| ☐ Yes | ☐ No | | Pipe type and schedule of wall thickness |
| ☐ Yes | ☐ No | | Nominal pipe size and cutting lengths of pipe (or center-to-center dimensions) |
| ☐ Yes | ☐ No | | Location and size of riser nipples |
| ☐ Yes | ☐ No | | Type of fittings and joints and location of all welds and bends |
| ☐ Yes | ☐ No | | Specifications of any sections to be shop welded and type of fittings or formations to be used |
| ☐ Yes | ☐ No | | Type and location of hangers, sleeves, braces, and methods of securing sprinklers when applicable |
| ☐ Yes | ☐ No | | All control valves, check valves, drain pipes, and test connections |
| ☐ Yes | ☐ No | | Make, type, model, and size of alarm, dry pipe, and preaction valves |
| ☐ Yes | ☐ No | | Size and location of standpipe risers, hose outlets, hand hose, monitor nozzles, and related equipment |
| ☐ Yes | ☐ No | | Calculation of loads for sizing and details of sway bracing |
| ☐ Yes | ☐ No | | Setting for pressure-reducing valves |
| ☐ Yes | ☐ No | | Manufacturer, size, type of backflow preventers |
| ☐ Yes | ☐ No | ☐ N/A | Type and amount of antifreeze solution used |
| ☐ Yes | ☐ No | ☐ N/A | If there is a separate control valve for the sprinkler system, is it supervised |
| ☐ Yes | ☐ No | | Pressure gauge indicated on the system and the supply |

### Design

*Is the following design information provided on plans/specification?*

| | | | |
|---|---|---|---|
| ☐ Yes | ☐ No | | Total area protected by each system on each floor |
| ☐ Yes | ☐ No | | Number of sprinklers on each riser per floor |
| ☐ Yes | ☐ No | ☐ N/A | Total number of sprinklers on each dry pipe, preaction, combined dry pipe-preaction, or deluge system |
| ☐ Yes | ☐ No | ☐ N/A | Approximate capacity (in gallons) of each dry pipe system |

| | | |
|---|---|---|
| ☐ Yes | ☐ No | Piping provisions for flushing |
| ☐ Yes | ☐ No | Where equipment is to be installed as an addition to an existing system, is enough of existing system indicated to make all conditions clear |
| ☐ Yes | ☐ No | Hydraulic data nameplate (for hydraulically designed systems) |
| ☐ Yes | ☐ No | Hydraulic reference points shown on the plan that correspond with comparable reference points on the hydraulic calculation sheets |
| ☐ Yes | ☐ No | Pipe sizes and lengths shown on the plan correspond with the sizes and lengths shown on the hydraulic calculation sheets |
| ☐ Yes | ☐ No | Minimum rate of water application (density), design area of water application, and water required for inside and outside hose streams |
| ☐ Yes | ☐ No | Total quantity of water and pressure required noted at a common reference point for each system |
| ☐ Yes | ☐ No | Relative elevations of sprinklers, junction points, and supply or reference points |
| ☐ Yes | ☐ No | Pressure loss for backflow preventor and/or meter included in hydraulic calculations |
| ☐ Yes | ☐ No | Is the most demanding area calculated |

### Fire Department Connection(s), Alarms, Fire Hydrants

*Is the following information provided on plans/specification?*

| | | | |
|---|---|---|---|
| ☐ Yes | ☐ No | ☐ N/A | For building exceeding 2,000 $ft^2$ or greater than a single story, the size, location, and piping arrangement of the fire department connections indicated |
| ☐ Yes | ☐ No | | Kind and location of alarm bells |
| ☐ Yes | ☐ No | | Fire alarm system connection |
| ☐ Yes | ☐ No | | Size and location of hydrants (showing size and number of outlets and whether outlets to be equipped with independent gate valves) |

### Approval

Reviewer: _____ Date: _____

Approved ☐ Yes ☐ No

If no, reason(s):

### Notes: