TOWN OF HUDSON

FIRE DEPARTMENT - INSPECTIONAL SERVICES DIVISION

12 School Street · Hudson, New Hampshire 03051 · Tel: 603-886-6005 · Fax: 603-594-1142

SPRINKLER SYSTEM PERMIT APPLICATION

Installation Address: _____

Business Name: _____ Unit: _____

Type of Occupancy: Residential ☐ Commercial/Industrial ☐

Type of System: 13D ☐ **or** 13R ☐ 13 ☐

Office Use:

Permit #: _____

Map: _____

Lot: _____

Zone: _____

Installation		**Sprinkler**		**Type**		**Supply**		**Standpipe**		**Piping**	
Addition	☐	Complete	☐	Wet	☐	Underground	☐	Wet	☐	CPVC	☐
Alteration	☐	Partial	☐	Dry	☐	Sprinkler	☐	Dry	☐	Black Iron	☐
New	☐	Basement	☐	Preaction	☐	Hydrant	☐	Combination	☐	Copper	☐
Remove	☐	Exitway	☐	Deluge	☐	Tank	☐			Combination	☐
Repair	☐	Hood/Vent	☐	Anti-Freeze	☐	Fire Pump	☐				
				Multi System	☐						

Total Work Area (sq ft): _____ Sprinkler Area (sq ft): _____

Building Size (sq ft): _____ Total # of Heads: _____

Number of Stories: _____ # of Standpipes: _____

Number of Systems: _____ Orifice Size (inches): _____

Property Owner: _____

Mailing Address:_____

_____

Daytime Phone #: _____

Cell Phone #: _____

Email: _____

Contractor: _____

Mailing Address:_____

_____

Daytime Phone #: _____

Cell Phone #: _____

Email: _____

Total Cost of Project:

$ _____

Brief Description of Work:

_____

_____

_____

Sprinkler plans must be attached to this application in order for this application to be processed.

Signature of applicant: _____ **Date:** _____

Address: _____

Filing Fee $ 30.00 Receipt # _____ Date _____

Permit Fee $_____ Receipt # _____ Date _____

____ **Approved**

____ **Denied** _____ _____

Inspectional Services Official or Designee Date

Comments:

_____

_____

_____

_____

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FIRE SPRINKLER SYSTEMS

Plan Submittal and Inspection Requirements

All fire sprinkler systems in the Town of Hudson, NH shall be installed to the currently adopted edition of the NFPA-13, NFPA-13D or NFPA-13R.

Submittal Requirements

All fire sprinkler system submittals shall include:

1. Two sets of plans (signed and dated) that comply with the design and plan requirements of NFPA-13, 13R or 13D currently adopted editions. Please include the name of the owner or builder and the site address of the building location that the calculations are designed for.
2. Two sets of hydraulic calculations (signed and dated) that comply with the hydraulic calculation requirements of the appropriate standard. Please include the name of the owner or builder and the site address of the building location that the calculations are designed for.
3. Two sets of manufacturer's material information sheets for the sprinkler heads, piping, horn and strobe devices where applicable, flow switch, hangers and any valves or backflow preventers used.
4. A sprinkler system permit application shall be signed, dated and submitted with the plans.
5. **If installing CPVC or pex, please provide a copy of your training certification from the manufacturer showing that you have been trained for installing these materials.**

Design/Plan Submittal Requirements Checklist

1. A complete set of piping plans drawn to scale showing all sprinkler head locations (use walls as dimensional references) and room use descriptions.
2. Indicate the type of piping being used in all areas, system piping and riser piping.
3. Provide all pipe sizing and lengths in all areas, system and riser piping.
4. Show all pipe hanger locations and provide hanger details showing all components and attachment devices.
5. Note any sloped or special ceilings.
6. Note any exposed beams, light fixtures or other ceiling obstructions.
7. Show attic access door.
8. Specify the manufacturer of the sprinkler head, orifice size and temperature rating. Use residential sprinkler heads in habitable spaces.
9. Provide a system riser detail showing all valves, devices and pumps. All shut off valves shall be either locked in the open position or removed and stored close to the system.

Hydraulic Calculations Requirements Checklist

1. Outline the calculation areas on the plans.
2. Calculations are required for the two most hydraulically demanding heads within a compartment.
3. Indicate all hydraulic reference points on the plans.
4. Provide water flow data and the source of information on the plan.

Rough Inspection Requirements

1. Shall be conducted prior to the concealment of any piping.
2. All nail plates shall be in place.
3. When CPVC pipe is used, random inspection of fire sprinkler heads shall be conducted to verify no glue has leaked down onto the fire sprinkler head.
4. **All piping shall be pressure tested per manufacturer's specifications and applicable NFPA Standards.**

Final Inspection Requirements

1. **A final inspection walkthrough shall be conducted to verify that all required areas have sprinklers.**
2. **A two headed bucket test in the most remote design area shall be conducted using an orifice the same size as a sprinkler head to simulate a flowing sprinkler head.**