



APPLICATION FOR INSTALLATION OF SPRINKLER SYSTEM



ROCHESTER, NH FIRE DEPARTMENT  
FIRE PREVENTION DIVISION

37 Wakefield Street \* Rochester, New Hampshire 03867 \* Telephone (603) 335-7545 \* Fax (603) 332-9711

Property Name: \_\_\_\_\_  
 Property Address \_\_\_\_\_  
 Owners Name: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Tel: \_\_\_\_\_  
 Installers Name: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Tel: \_\_\_\_\_

N.I.C.E.T. CERTIFICATION #

# VALVES		# LOW PRESSURE SWITCHES	
# FLOW ALARMS		# WATER FLOW SWITCHES	
# OF HEADS		# POST INDICATION VALVES	
# TAMPER SWITCHES		# OTHER DEVICES	

Estimated Cost

PROVIDE THE FOLLOWING WITH THIS APPLICATION

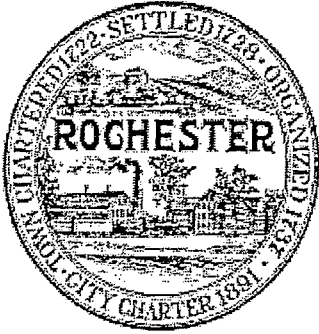
	PLANS REVIEW FEE
	CUT SHEETS
	SPRINKLER HYDRAULIC CALCULATIONS
	STANDPIPE CALCULATIONS
	FLOOR PLANS
	TOTAL FLOOR AREA

**Highlight all sprinkler components on plans and drawings.**

Equipment must be installed in accordance with the Rochester Fire Department rules and regulations governing sprinkler systems and manufacturers' installation instructions.  
Application is hereby made for approval for installation or modification of a sprinkler systems.

DATE \_\_\_\_\_  
 \_\_\_\_\_ Installer's Business Name \_\_\_\_\_ Installer's Name (Print) \_\_\_\_\_ Installer's Signature \_\_\_\_\_  
 DATE \_\_\_\_\_  
 \_\_\_\_\_ Inspector's Name \_\_\_\_\_ Approved \_\_\_\_\_ Disapproved \_\_\_\_\_

Original – White      Canary – Fire Department      Pink – Code Enforcement



# Fire Protection Permit Application

City of Rochester, New Hampshire  
Code Enforcement Department  
31 Wakefield St. Rochester, NH  
Telephone: (603) 332-3508

Issue Date: \_\_\_\_\_  
Permit #: \_\_\_\_\_  
(This area for office use only)  
Map # \_\_\_\_\_  
Lot # \_\_\_\_\_  
Block # \_\_\_\_\_  
Zoning \_\_\_\_\_

Location (Street # & Street Name): \_\_\_\_\_

Owner: \_\_\_\_\_ Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Telephone: \_\_\_\_\_

Contractor: \_\_\_\_\_ Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Telephone: \_\_\_\_\_

Cell #: \_\_\_\_\_ Email: \_\_\_\_\_

Preferred Contact Method:  Telephone  Cell  Email

Estimated Cost: \_\_\_\_\_ Permit Fee: \_\_\_\_\_

Paid:  Cash \$ \_\_\_\_\_  Check # \_\_\_\_\_

Calculate at \$9.00 per thousand of construction cost (rounded up) plus a \$10.00 Application Fee.  
Minimum Permit fee is \$20.00

Project Type:  Residential [Number of Dwelling Units: \_\_\_\_\_]  Commercial

Sprinkler System:  NFPA 13  NFPA 13R  NFPA 13D

Alarm System:

Commercial Hood:  Type I  Type II  Suppression System

### ATTACHMENTS AND SUBMITTALS REQUIRED AT THE TIME OF APPLICATION:

Rochester Fire Department Installation/Plan Review Application with Payment.

2 Sets of plans & Calculations.

Special Inspection Escrow Accounts are needed for some projects. Please inquire with the Code Office.

~~~~~ (DO NOT WRITE IN THIS SPACE) ~~~~~

Approved By \_\_\_\_\_ Date: \_\_\_\_\_  
Code Officer: \_\_\_\_\_

Instructions for Permit Applications

1. All information must be printed legibly.
2. Owner name, address and phone number.
3. Location and address of work site.
4. Plans & payment must be submitted at time of application.

Notes:

The property owner of record may exercise their right to perform their own work on their residence if he or she lives at the residence and the residence is a Single Family Dwelling occupied by the owner of record

It is the responsibility of all contractors, to obtain the necessary permits from the Code Enforcement office at City Hall before ANY work has begun. Work must begin within six (6) months of the issuance of any permit.

Permits are non-transferable. If this is an "After the Fact" permit, it will be subject to a fee two times the normal permit fee.

It is the responsibility of the contractor to obtain all inspections required. A rough-in inspection is required before any work is covered, and a final inspection is required when all work is complete. This signed application constitutes consent on the applicant's part to allow for all inspections at the property location listed.

No permit will be issued until all of the above information is furnished, and all the above conditions met.

**INSPECTIONS REQUIRED:**

**Contact the Rochester Fire Department for Required Inspections and Scheduling.**

Code Enforcement Approval would certify that the applicant could proceed with installation of the approved fire protection system(s) in accordance with specifications submitted. Any deviation from the specifications submitted will require an amendment to this permit or additional permits.

If you have any questions, feel free to contact the Code Enforcement office at (603) 332-3508 or the Rochester Fire Department at (603) 335-7545

**Statement of Compliance:**

I have read and understand the statement and hereby agree to all of the terms stated therein. I agree to abide by any and all codes relating to my field of work, including all national, state and local codes. I also realize that any false statement made in the application for permit may be grounds for revocation of said permit.

\*\*\* Plans will be forwarded to Rochester Fire Department for Approval\*\*\*

Special Inspection Escrow Accounts May Be Needed for Some Projects. The Building Department will let you know if they are needed.

\_\_\_\_\_  
Applicant Signature

\_\_\_\_\_  
Date



Rochester Fire Department  
City of Rochester  
37 Wakefield Street • Rochester, NH 03867

Norman Sanborn, Jr.  
Chief of Department

Tel (603) 335-7545  
Fax (603) 332-9711

**SPRINKLER SYSTEM APPLICATION INSTRUCTIONS**

Application must be completed in its entirety and signed by the installer.

• **OBJECTIVE:**

What is the scope of work that is being completed by you (the installer) i.e. New Sprinkler System, upgrade of existing sprinkler system or replacing existing device such as sprinklers, flow switches or tamper switches.

• **FEE:**

The review of a sprinkler system plan shall be performed by the Fire Department at a charge of \$1.00 per device with the minimum fee being \$50.00.

A Fire Protection permit shall be obtained from the Building Safety Department and you need to calculate at \$9.00 per thousand of construction (rounded up) plus a \$10.00 Application Fee. Minimum Permit fee is \$20.00.

• **SUBMITTANCE:**

The Sprinkler System Application must be submitted with **TWO** sets of plans (**Highlight all sprinkler components on plans and drawings**).

All hydraulic calculations shall be submitted with the application.

Cut-sheets of all materials shall also be provided with the application.

• **INSPECTIONS:**

The initial inspection of an installed sprinkler system shall be performed by the Fire Department at no charge.

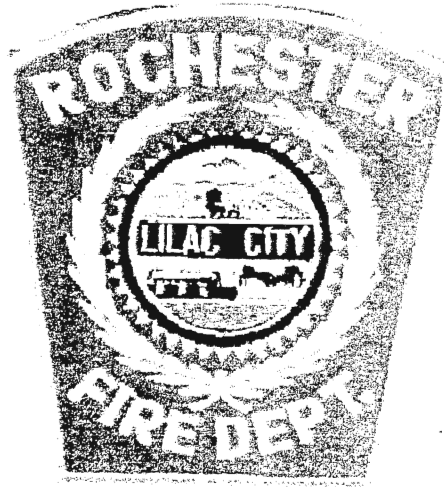
Re-inspections of installed sprinkler systems shall be billed at a rate of \$50.00 per person per hour with a minimum charge of \$100.00.

A test certification for above ground and underground piping shall be presented to the Rochester Fire Department prior to the final inspection.

Included for your examination are any changes made to the Rochester Fire Department Sprinkler System Rules and Regulations made within the last year.

# Rochester Fire Department Sprinkler System

## Rules and Regulations



*Serving the Lilac City with Pride*

March 15, 2006

# SPRINKLER SYSTEM RULES & REGULATIONS

## Administrative Rules

The installer of a sprinkler system shall file an application with the Rochester Fire Department Fire Prevention Bureau with a filing fee of \$1.00 per device with a minimum being \$50.00. Devices included in this fee shall include sprinkler heads, backflow preventers, post indicator valves, OS&Y valves, inspector's test valves, and fire department connections.

Installation permits shall automatically become invalid unless work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time the work is commenced. Before such work recommences, a new permit shall be first obtained and the fee, if any, shall be one-half the amount required for a new permit for such work, provided no changes have been made or will be made in the original installation documents for such work, and provided further that such suspension or abandonment had not exceeded one year.

Permits are not transferable and any change in occupancy, operation, tenancy or ownership shall require a new permit be issued.

All sprinkler systems installed in the City of Rochester shall have a fire protection permit from the City of Rochester Building Department.

All commercial sprinkler systems installed in the City of Rochester shall report to a central monitoring company.

A set of working plans and hydraulic calculations shall be submitted to the Rochester Fire Department Fire Prevention Bureau prior to the installation of the sprinkler or standpipe system. Working plans shall be drawn to an indicated scale and include all items detailed in the most recent edition of NFPA 13. Hydraulic calculations shall be prepared on form sheets that include summary sheet, detailed information sheets, and a graph sheet. All hydraulic calculation sheets shall include all items detailed in the most recent edition of NFPA 13.

All plans submitted must be stamped and signed by a NICET Level III technician or higher.

All sprinkler systems installed must be installed to meet the criteria set forth by NFPA 13, 13D and 13R respectively.

Permits and inspections shall be required for all of the following:

- All new installations
- Any work or modification to an existing sprinkler system. This includes but is not limited to: head replacements and moving or relocating sprinkler heads. Any addition to, or expansion of existing systems shall require submission of hydraulic calculations.
- Any repair or modification to the system components and hardware as listed in the most recent edition of NFPA 13, Installation of Sprinkler Systems.

The Post Indicator Valve (PIV) or Wall Mounted Indicator Valve and Fire Department Connection shall be located by the fire department.

A fire hydrant, either privately owned or municipal, shall be located no more than one hundred feet (100') from the Fire Department Connection.

A Fire Department Connection shall be supplied on all sprinkler systems and standpipe systems other than on a 13D system.

On a 13 system a single four-inch (4") Stortz connection shall be installed. Connections must be a minimum of thirty-six (36") from all obstructions.

On a 13R system a single two and a half (2 1/2) connection shall be installed. Connections must be a minimum of thirty-six (36") from all obstructions.

All sprinkler and standpipe systems shall have alarm initiating retarded water flow devices.

All vane flow switches shall have a zero to sixty (0-60) second retard devices set to forty-five (45) seconds.

All sprinkler and standpipe systems shall have an inspector test valve connected to an appropriately sized orifice located at the furthest point from the riser and shall be piped to drain to the exterior of the building.

Each sprinkler riser shall be provided with a listed indicating valve in an accessible location.

There shall be no shut off valves on alarm devices.

Each floor shall be zoned separately with a valve to control water flow to the individual zone.

All installed valves in the sprinkler system shall have permanent tags indicating the purpose of the device.

All valves installed in the system shall be supervised.

If suppression or control valves are located in separate or concealed space, a sign shall be provided on the entrance door or access panel to the concealed space. The sign shall be **RED** with **WHITE** lettering at least one inch (1") in height and shall read **"SPRINKLER CONTROL VALVE"**.

All valves and controls shall be readily accessible.

A permanent legend and riser diagram must be placed at the main shut-off valve indicating the location of the shut-off valves and inspector test valve.

All sprinkler heads installed in electrical rooms and elevator control rooms shall be 212 degree rated.

All elevator control rooms shall be equipped with a shut off valve with tamper switch located outside of the room.

All fire pumps installed shall be listed in accordance with the provisions put forth in the most recent edition of NFPA 20. The operation and status of the building fire pump shall be supervised, on a separate alarm zone for pump running and power failure, including normal position of the disconnect switch.

A test header shall be provided with all fire pump installations.

All fire pump systems shall be provided with a test header that is piped to the exterior of the structure. The site in the vicinity of the test header shall be designed to account for the drainage of water.

All standpipe systems shall be installed to meet the criteria set forth in the most recent edition of NFPA 14.

All standpipe systems must be installed to a minimum of five hundred gallons per minute (500 G.P.M.) for the first standpipe, plus two hundred fifty gallons per minute (250 G.P.M.) for each additional standpipe.

Standpipes shall have a one hundred (100) PSI @ 500 GPM residual rating at the top of the system.

All standpipe hose outlets shall have a 2 ½" by 1 ½" reducer with a cap and chain. The threads on these devices shall be congruent with those employed by the fire department.



## **Supervision of Sprinkler Systems**

All commercial sprinkler systems shall have a direct connection to a Central Station approved by the fire department.

Each floor of a sprinkled building shall be zoned separately.

All water shut-off devices shall have a tamper switch installed and wired for supervisory, which does not alarm the Fire Alarm Control Panel.

## **Testing and Inspection**

A test certificate for above ground and underground piping shall be presented to the fire department prior to the final inspection.

A qualified technician thoroughly familiar with the design and installation of the system shall perform all system acceptance tests.

Annual inspections shall be performed in accordance with the latest edition of NFPA 25.

All reports of inspections and testing shall be kept on premises and available for review.

The inspector's test, main drain valves, and all other control valves on the sprinkler system shall be operated at least once per year to insure that there is free water flowing, adequate pressure, and that the supervisory service is operating properly. An internal inspection of the piping shall be performed periodically, but at least every ten (10) years to check for debris build up. If debris build up is discovered, the system shall be flushed and internal inspections shall then be conducted at five (5) year intervals. Each dry pipe valve shall be cleaned and reset at least once each year. Automatic anti-freeze solution systems and limited area systems that are supplied by a domestic water source and which are not required to provide a test line shall be exempt for the requirements of this section. Certification tags and seals shall be applied to the sprinkler system risers and fire pumps detailing the person or contractor conducting the test and the date of the test.

All fire pumps that supply water to suppression systems and standpipes shall be operated once every thirty (30) days to insure that water is discharged freely from the relief valve and that the system is functional. A yearly test shall be performed in accordance with the criteria put forth in the most recent edition of NFPA 25. Where the suction supply is from the public means, the test shall not draw the residual suction pressure at the pump below twenty (20) pounds per square inch (PSI).

## Exceptions

Any device or exceptions to these rules and regulations must be approved in writing to the Fire Marshal prior to acceptance testing of any fire protection system.