

# SPRINKLER SYSTEM APPLICATION

In accordance with the Code of the Town of Gates no permit-required work will begin prior to the issuance of proper permits and/or approvals by the Town of Gates. All work shall comply with all applicable codes and standards, including the NYS Fire Prevention and Building Code, NFPA 13, NFPA 13D, NFPA 13R and the Code of the Town of Gates.

**Town of Gates**  
Office of the Fire Marshal  
1605 Buffalo Road  
Rochester, NY 14624  
(585) 247-6100  
(585) 426-8581 Fax  
www.townofgates.org



**ALL FIELDS MUST BE COMPLETED.**

**DATE:** \_\_\_\_\_

**If not applicable, please mark field with N/A**

**SITE INFORMATION**

<b>BUILDING/SITE NAME:</b>
<b>BUILDING/SITE ADDRESS:</b>
<b>MAILING ADDRESS:</b>

**WILL THE AREA OF THIS WORK BE TENANT OCCUPIED? YES  NO**  (If yes, fill in the information field below)

**OCCUPANT / TENANT INFORMATION**

<b>BUILDING/SITE NAME:</b>
<b>BUILDING/SITE ADDRESS:</b>

**APPLICANT INFORMATION**

<b>BUISNESS NAME:</b>
<b>ADDRESS:</b>
<b>PHONE#:</b> <b>FAX#:</b> <b>E-MAIL:</b>
<b>CONTACT NAME:</b>
<b>SIGNATURE:</b> <b>UNSIGNED APPLICATIONS WILL BE RETURNED</b>

**CONTRACTOR OR SUB-CONTRACTOR PERFORMING WORK**

<b>NAME:</b>
<b>ADDRESS:</b>
<b>PHONE#:</b> <b>FAX#:</b> <b>E-MAIL:</b>
<b>ON SITE CONTACT NAME:</b> <b>CELL PHONE#:</b>

DOES THE SCOPE OF THIS PROJECT INVOLVE MORE THAN ONE BUILDING? YES  NO  TOTAL # of Buildings \_\_\_\_\_

DOES THIS WORK IMPACT MORE THAN ONE SYSTEM? YES  NO  TOTAL # of Systems \_\_\_\_\_

IS THIS SYSTEM SUPPLEMENTED BY A FIRE PUMP? YES  NO

**PURPOSE:** Installation  Addition  Alteration  Repair

IS THIS A REPLACEMENT OF AN EXISTING SYSTEM? YES  NO

**APPROVED PLANS AND A COPY OF THE PERMIT MUST BE KEPT ON SITE DURING CONSTRUCTION.**

Submittal of plans and payment of fees does not imply Permission or permit by the Town of Gates for project design or commencement of work.

**TYPE OF SYSTEM:** (check the one most applicable)

- |                   |   |
|-------------------|---|
| _____ Dry         | _____ Pre-Action  |
| _____ Partial Dry | _____ Deluge  |
| _____ Partial Wet | _____ Combined (Sprinkler and Standpipe – common riser)         |
| _____ Wet         | _____ NFPA 13D Residential System (one and two family dwelling) |
| _____ Wet and Dry | _____ NFPA 13R Residential System (four stories or less)        |

**SYSTEM REQUIRED: Y or N**

**REQUIRED BY:** \_\_\_ Fire/Building Code \_\_\_ Insurance \_\_\_ Other

The Fire Marshal will require a hydrostatic test of all systems containing 6 or more heads and a 24-hour air test and trip test of the dry systems. The completed installation shall pass a visual inspection and trip test witnessed by a representative of the Office of the Fire Marshal. **Sprinkler systems shall be fully pre-tested and fully functional prior to scheduling inspections.** (A fee of \$50.00 will be charged for each re-inspection)

Please call the Office of the Fire Marshal at least 24 hours in advance to schedule inspections or tests.

**Note:** The issuance of a permit based upon plans specifications, data and other reports shall not prevent the Town of Gates from thereafter requiring correction of deficiencies. Any deficiencies found during field inspection, testing, or Fire Marshal surveys must also be corrected.

All work shall comply with all applicable codes and standards, including the NYS Fire Prevention and Building Code, NFPA 13, 13R, 13D, 231, 20 and 24 and the Code of the Town of Gates.

Low-pressure supervision is required for all dry pipe sprinkler systems and for pre-action sprinkler systems.

**Contractors Certificate of Completion** shall be provided to the Town of Gates at the end of the test.

**PROJECT NARRATIVE: (Including specific scope, building, floor, suite, system, and location of work)**

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**A PERMIT SHALL NOT BE ISSUED WITHOUT COPIES OF THE FOLLOWING:**

**Incl.   N/A**

- Drawings – 2 Copies stamped and signed by an Architect or Engineer
- Contractor or Sub-Contractor Workmen’s Compensation Insurance Certificate, naming Town of Gates as Additional Insured
- Equipment Submittals or Cut Sheets
- Complete Hydraulic Calculations
- Complete and Current Water Supply Information
- Complete Zone Map

**\*\*\*\* PROJECT REQUIREMENTS \*\*\*\***

1. The Town of Gates and the Gates Fire District require the fire department connection (FDC) to be a **2-1/2” SIAMESE CONNECTION WITH PIN LUGS AND NH THREADS. The FDC shall carry the following approvals of being UL Listed and FM approved.**
2. In the case of existing systems which a permit is being issued for additions, alterations, installations, or repairs, **ANY** fire department connection (FDC) on the sprinkler system which **DOES NOT** meet the requirements of key note #1 above shall be replaced to conform with note #1.
3. An exterior horn strobe shall be installed above the FDC and shall be connected to the fire alarm system.
4. Provide signs, labels and markings per Town of Gates Fire Protection Signage Requirements.

# TOWN OF GATES APPROVED FIRE PROTECTION SYSTEM SIGNAGE

**Town of Gates**  
Office of the Fire Marshal  
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## Purpose and Scope:

The purpose of the following requirements is to establish a standard governing the uniformity of fire protection signage for fire alarm systems and fire suppression systems within the Town of Gates. The signage requirements will enable responding emergency personnel to identify the location of the emergency and the fire protection features which serve those areas quickly and accurately.

## Signs and Decals:

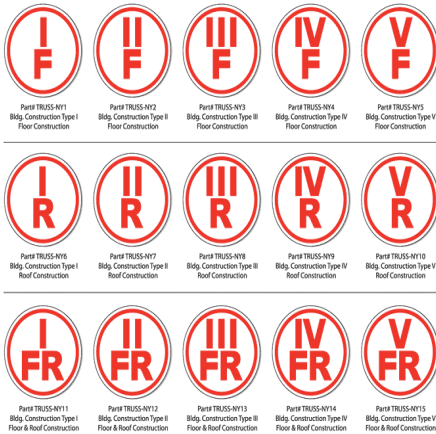
NFPA 13 has specific requirements regarding the physical design of signs for certain areas. All valve signs, hydraulic design signs, and general information signs must be a “permanently marked weatherproof metal or rigid plastic identification signs secured with corrosion-resistant wire, chain, or other approved means.” The sign showing the Fire Department Connection to the sprinkler must have “raised or engraved letters at least 1 in. (25 mm) in height on plate or fitting” that spell out the service design of the system.

Signs mounted on the exterior of the building or on posts shall be .040” Engineering Grade Reflective Aluminum, beyond those specific requirements, any other markings can be decals, stickers, or placards, provided they are weather resistant, fade resistant, convey the necessary information, and are approved by the fire code official.

Unless noted otherwise or required by code, the fire protection system sign shall have a RED reflective background Pantone Matching System (PMS) #187 and the letters shall reflective WHITE letters.

## GENERAL SIGNAGE:

### 19 NYCRR Part 1264 Truss ID



Signs identifying the existence of truss construction shall consist of a circle 6 inches (152.4 mm) in diameter, with a stroke width of 1/2 inch (12.7 mm). The sign background shall be reflective white in color. The circle and contents shall be reflective red in color, conforming to Pantone matching system (PMS) #187. Where a sign is directly applied to a door or sidelight, it may be a permanent non-fading sticker or decal. Signs not directly applied to doors or sidelights shall be of sturdy, non-fading, weather resistant material.

Signs identifying the existence of truss construction shall contain the roman alphanumeric designation of the construction type of the building, in accordance with the provisions for the classification of types of construction set forth in section 602 of the Building Code of New York State (see 19 NYCRR Part 1221), and an alphabetic designation for the structural components that are of truss construction, as follows: “F” shall mean floor framing, including girders and beams “R” shall mean roof framing “FR” shall mean floor and roof framing. The construction type designation shall be placed at the twelve o’clock position over the structural component designation, which shall be placed at the six o’clock position.

Signs identifying the existence of truss construction shall be affixed in the locations specified in Table I-1264.

At the request of Gates Fire District, the level of fire protection shall be identified. Provide a letter “A” or “B” next to the roman numeral truss type identifications.

### Sign Identifying the Fire Department Connection



The Fire Department Connection Sign will consist of 10-inch high by 14-inch-wide, 2-inch high block letters a 0.5” letter stroke, WHITE colored letters on a RED colored background, reading “FIRE DEPARTMENT CONNECTION– DO NOT BLOCK” and shall be permanently attached above the fire department connection in a visible location approved by the Fire Marshal. The sign shall be .040” Engineering Grade Reflective Aluminum.

#### Additional Fire Department Connection Signage Requirements

These additional required signs shall be sized to fit the building areas served and the system operating pressure, the minimum size of the sign shall be 5-inch high by 7-inch wide and the maximum size of the sign shall be 10-inch high by 14-inch-wide, words shall be all capital letters, and the letters shall be 2 inches in height with ½ inch stroke, WHITE colored reflective letters on a RED colored background. The sign shall be .040” Engineering Grade Reflective Aluminum.



- NFPA 13 – Section 8.17.2.4.5 “Where a fire department connection services only a portion of a building, a sign shall be attached indicating the portions of the building served.”
- NFPA 13 – Section 8.17.2.4.7.2 “A sign shall also indicate the pressure required at the inlets to deliver the greatest system demand”.
- NFPA 13 – Section 8.17.2.4.7.3 “The sign required in 8.17.2.4.7.2 shall not be required where the system demand pressure is less than 150 psi (10.3 bar).”



### Fire Department Connection Escutcheon Requirements



For both inlets and outlets, the escutcheon provided with each fire department connection shall be of aluminum construction and have a red background with white letters identifying the service design.

- NFPA 13 Section 8.17.2.4.7.1 Each fire department connection to sprinkler systems shall be designated by a sign having raised or engraved letters at least 1 in. (25 mm) in height on plate or fitting reading service design—for example, AUTOSPKR., OPEN SPKR., AND STANDPIPE.

**Combined Fire Alarm and Sprinkler Riser Rooms**



If the fire alarm control panel and fire sprinkler riser are located within the same room, the sign shall read “FIRE ALARM CONTROL PANEL SPRINKLER RISER ROOM”. The minimum size of the sign will be 7-inch high by 10-inch wide, WHITE letters with RED background, letters shall be 2 inches in height with ½-inch stroke width and be all capital letters. The sign will be permanently attached to the door leading to the fire alarm control panel and sprinkler riser room, with the center of the sign being a minimum of 48 inches to a maximum of 60 inches above finished floor. The sign will be either .040” Engineering Grade Reflective Aluminum for outdoor applications OR 6 Mil self-adhesive Engineering Grade Reflective Vinyl for indoor applications

**Sprinkler Riser Room**



For sprinkler riser rooms, the sign shall read “SPRINKLER RISER ROOM”. The minimum size of the sign will be 7-inch high by 10-inch wide, WHITE letters with RED background, letters shall be 2 inches in height with ½-inch stroke width and be all capital letters. The sign will be permanently attached to the door leading to the sprinkler riser room, with the center of the sign being a minimum of 48 inches to a maximum of 60 inches above finished floor. The sign will be either .040” Engineering Grade Reflective Aluminum for outdoor applications OR 6 Mil self-adhesive Engineering Grade Reflective Vinyl for indoor applications.

**Fire Alarm Control Panel Room**



For fire alarm control panel rooms, the sign shall read “FIRE ALARM CONTROL PANEL ROOM” or “FACP ROOM”. The minimum size of the sign will be 7-inch high by 10-inch wide, WHITE letters with RED background, letters shall be 2 inches in height with ½-inch stroke width and be all capital letters. The sign will be permanently attached to the door leading to the fire alarm control panel room, with the center of the sign being a minimum of 48 inches to a maximum of 60 inches above finished floor. The sign will be either .040” Engineering Grade Reflective Aluminum for outdoor applications OR 6 Mil self-adhesive Engineering Grade Reflective Vinyl for indoor applications.

**Fire Pump**



For fire pump rooms, the sign shall read “FIRE PUMP”. The minimum size of the sign will be 7-inch high by 10-inch wide, WHITE letters with RED background, letters shall be 2 inches in height with ½-inch stroke width and be all capital letters. The sign will be permanently attached to the door leading to the fire pump room, with the center of the sign being a minimum of 48 inches to a maximum of 60 inches above finished floor. The sign will be either .040” Engineering Grade Reflective Aluminum for outdoor applications OR 6 Mil self-adhesive Engineering Grade Reflective Vinyl for indoor applications.

**Electrical Room**



For electrical rooms, the sign shall read “ELECTRICAL ROOM”. The minimum size of the sign will be 7-inch high by 10-inch wide, WHITE letters with RED background, letters shall be 2 inches in height with ½-inch stroke width and be all capital letters. The sign will be permanently attached to the door leading to the electrical room, with the center of the sign being a minimum of 48 inches to a maximum of 60 inches above finished floor. The sign will be either .040” Engineering Grade Reflective Aluminum for outdoor applications OR 6 Mil self-adhesive Engineering Grade Reflective Vinyl for indoor applications. If there is a stand-by generator on site provide signage required

**Mechanical Room**



For mechanical rooms, the sign shall read “MECHANICAL ROOM”. The minimum size of the sign will be 7-inch high by 10-inch wide, WHITE letters with RED background, letters shall be 2 inches in height with ½-inch stroke width and be all capital letters. The sign will be permanently attached to the door leading to the mechanical room, with the center of the sign being a minimum of 48 inches to a maximum of 60 inches above finished floor. The sign will be either .040” Engineering Grade Reflective Aluminum for outdoor applications OR 6 Mil self-adhesive Engineering Grade Reflective Vinyl for indoor applications.

**Utility Rooms**



For utility rooms which house the main domestic water shut-off, main gas supply shut off, or both, the sign shall read “UTILITY ROOM DOMESTIC WATER SHUT-OFF”, “UTILITY ROOM MAIN GAS SHUT-OFF”, OR “UTILITY ROOM GAS/WATER SHUT-OFF”. The minimum size of the sign will be 7-inch high by 10-inch wide, WHITE letters with RED background, letters shall be 2 inches in height with ½-inch stroke width and be all capital letters. The sign will be permanently attached to the door leading to the mechanical room, with the center of the sign being a minimum of 48 inches to a maximum of 60 inches above finished floor. The sign will be either .040” Engineering Grade Reflective Aluminum for outdoor applications OR 6 Mil self-adhesive Engineering Grade Reflective Vinyl for indoor applications.

**Fire Command Center**



When required, Fire Command Centers shall be labelled, the sign shall read “FIRE COMMAND CENTER”. The minimum size of the sign will be 7-inch high by 10-inch wide, WHITE letters with RED background, letters shall be 2 inches in height with ½-inch stroke width and be all capital letters. The sign will be permanently attached to the door leading to the mechanical room, with the center of the sign being a minimum of 48 inches to a maximum of 60 inches above finished floor. The sign will be either .040” Engineering Grade Reflective Aluminum for outdoor applications.

**Normally Open Fire Doors**



For fire doors that are intended to be kept in the NORMALLY OPEN position, the signs shall read “FIRE DOOR – DO NOT BLOCK”. The minimum size of the sign will be 4-inch high by 12-inch wide, WHITE letters with RED background, letters shall be one inch in height and be all capital letters. The sign will be permanently attached on both sides of the door leaf, with the center of the sign being a minimum of 48 inches to a maximum of 60 inches above finished floor. The sign will be 6 Mil self-adhesive Engineering Grade Reflective Vinyl.

**Normally Closed Fire Doors**



For fire doors that are intended to be kept in the NORMALLY CLOSED position, the signs shall read “FIRE DOOR – KEEP CLOSED”. The minimum size of the sign will be 4-inch high by 12-inch wide, WHITE letters with RED background, letters shall be one inch in height and be all capital letters. The sign will be permanently attached on both sides of the door leaf, with the center of the sign being a minimum of 48 inches to a maximum of 60 inches above finished floor. The sign will be 6 Mil self-adhesive Engineering Grade Reflective Vinyl.



**NFPA 13 SPRINKLER SYSTEM COMPONENT IDENTIFICATION:**

- 6.6.4.1 All control, drain, venting, and test connection valves shall be provided with permanently marked weatherproof metal or rigid plastic identification signs. Provide signs with RED background with WHITE letters.
- 6.6.4.2 The identification sign shall be secured with corrosion-resistant wire, chain, or other approved means.
- 6.6.4.3 The control valve sign shall identify the portion of the building served.

**General Information Sign**

**SPRINKLER SYSTEM – GENERAL INFORMATION FOR**

\_\_\_\_\_

Pipe Schedule System  Yes  No Date: \_\_\_\_\_

High-Piled Storage  Yes  No Flow Test Date: \_\_\_\_\_

Rack Storage:  Yes  No Static: \_\_\_\_\_ PSI Bar

Commodity Class: \_\_\_\_\_ Resid: \_\_\_\_\_ PSI Bar

Max. Storage Height: \_\_\_\_\_ FT M Flow: \_\_\_\_\_ GPM LPM

Aisle Width (min.): \_\_\_\_\_ FT M Pitot: \_\_\_\_\_ PSI Bar

Encapsulation  Yes  No Date: \_\_\_\_\_

Solid Shelving:  Yes  No Location: \_\_\_\_\_

Flammable / Combustible Liquids:  Yes  No \_\_\_\_\_

Other Storage:  Yes  No Location of Aux/Low Point Drains: \_\_\_\_\_

Hazardous Materials:  Yes  No \_\_\_\_\_

Idle Pallets:  Yes  No \_\_\_\_\_

Antifreeze Systems  Yes  No Dry Pipe/Double Interlock Preaction Valve Test Results \_\_\_\_\_

Location: \_\_\_\_\_

Dry or Aux Systems  Yes  No Original Main Drain Test Results: \_\_\_\_\_

Location: \_\_\_\_\_ Static: \_\_\_\_\_ PSI Bar

Residual: \_\_\_\_\_ PSI Bar

Where Injection Systems are Used to Treat MIC or Corrosion: \_\_\_\_\_ Venting Valve Location: \_\_\_\_\_

Type of Chemical: \_\_\_\_\_

Concentration: \_\_\_\_\_

For Proper Disposal, See: \_\_\_\_\_

Contractor or Designer Name: \_\_\_\_\_

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

Phone: \_\_\_\_\_

The installing contractor shall provide a general information sign used to determine system design basis and information relevant to the inspection, testing, and maintenance requirements required by NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems. Such general information shall be provided with a permanently marked weatherproof metal or rigid plastic sign, secured with corrosion-resistant wire, chain, or other acceptable means. Such signs shall be placed at each system control riser, antifreeze loop, and auxiliary system control valve. The sign shall include the following information:

- Name and location of the facility protected
- Presence of high-piled and/or rack storage
- Maximum height of storage
- Planned Aisle width
- Planned Commodity classification
- Encapsulation of pallet loads
- Presence of solid shelving
- Flow test data
- Presence of flammable/combustible liquids
- Presence of hazardous materials
- Presence of other special storage
- Location of auxiliary drains and low point drains
- Original results of main drain flow test
- Name of installing contractor or designer
- Indication of presence / location of antifreeze or other auxiliary systems

**Hydraulic Placard**

**HYDRAULIC-SYSTEM**

THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM

Location \_\_\_\_\_

No. of Sprinklers \_\_\_\_\_

Basis of Design

1. Density \_\_\_\_\_ GPM/SQ. FT

2. Designed Area of Discharge \_\_\_\_\_ SQ. FT

System Demand

1. GPM Discharge \_\_\_\_\_ GPM

2. Residual Pressure at the Base of the Riser \_\_\_\_\_ PSI

3. Hose Stream Allowance \_\_\_\_\_

Occupancy Classification \_\_\_\_\_

Commodity Classification \_\_\_\_\_

Maximum Storage Height \_\_\_\_\_

Date of Installation \_\_\_\_\_

Installed By: \_\_\_\_\_

The installing contractor shall identify a hydraulically designed sprinkler system with a permanently marked weatherproof metal or rigid plastic sign secured with corrosion-resistant wire, chain, or other approved means. The sign shall be seven inches wide and ten inches tall. Such signs shall be placed at the alarm valve, dry pipe valve, pre-action valve, or deluge valve supplying the corresponding hydraulically designed area. The sign shall include the following information:

- Location of the design area or areas
- Discharge densities over the design area or areas
- Required flow and residual pressure demand at the base of the riser
- Occupancy classification
- Commodity classification and maximum permitted storage height and configuration
- Hose stream allowance included in addition to the sprinkler demand
- The name of the installing contractor and the date the system was installed.

**Automatic Sprinkler System  
With Non-Fire Protection  
Connections**



The caution sign shall be worded as follows: This valve controls fire protection equipment. Do not close until after fire has been extinguished. Use auxiliary valves when necessary to shut off supply to auxiliary equipment. CAUTION: Automatic alarm can be sounded if this valve is closed

**Spare Sprinkler Sign**

Fire "B" Gone 1111 N Fire Sprinkler Way, LV NV 89101

SIN #	Supplier Description	Orifice	Deflector	Temp	Pressure	Quantity	Issue Date
GLR10C	GLORGE 1.5K OR REC	3/8"	PCB	155	175	14	01-2013
TY910B	TYCO 35.3K MK EC	1"	UPR	155	175	120	01-2013
RZ30C	RELIABLE 11.2K BR EC	3/8"	UPR	155	175	10	01-2013
Y0007	YECTALIC 1.8K BR ORY	1"	PCB	200	175	21	01-2013

FIRE PROTECTION SYSTEMS INC.  
1234 HYDRO WAY LV NV 89101

A supply of at least six spare sprinklers (never fewer than six) shall be maintained on the premises so that any sprinklers that have operated or been damaged in any way can be promptly replaced. A list of the sprinklers installed in the property shall be posted in the sprinkler cabinet. The list shall include the following:

- Sprinkler Identification Number (SIN) if equipped
- Manufacturer
- Model
- Orifice
- Deflector type
- Thermal sensitivity
- Pressure rating
- General description
- Quantity of each type to be contained in the cabinet
- Issue or revision date of the list



**References:**

2020 Fire Code of New York State Section 509.1, Section 604.3.1, and Section 901.4.6.2

**509.1 Identification.** Fire protection equipment shall be identified in an *approved* manner. Rooms containing controls for air-conditioning systems, sprinkler risers and valves, or other fire detection, suppression or control elements shall be identified for the use of the fire department. *Approved* signs required to identify fire protection equipment and equipment location shall be constructed of durable materials, permanently installed and readily visible.

**604.3.1 Labeling.** Doors into electrical control panel rooms shall be marked with a plainly visible and legible sign stating ELECTRICAL ROOM or similar approved wording. The disconnecting means for each service, feeder or branch circuit originating on a switchboard or panelboard shall be legibly and durably marked to indicate its purpose unless such purpose is clearly evident. Where buildings or structures are supplied by more than one power source, markings shall be provided at each service equipment location and at all interconnected electric power production sources identifying all electric power sources at the premises in accordance with NFPA 70.

**901.4.6.2 Marking on access doors.** Access doors for automatic sprinkler system riser rooms and fire pump rooms shall be labeled with an approved sign. The lettering shall be in contrasting color to the background. Letters shall have a minimum height of 2 inches (51mm) with a minimum stroke of 3/8 inch (10 mm).