

TOWN OF GATES APPROVED FIRE PROTECTION SYSTEM SIGNAGE

Town of Gates

Office of the Fire Marshal
1605 Buffalo Road
Rochester, NY 14624
(585) 247-6100 ext 244
(585) 426-8581 Fax
smontemurro@townofgates.org



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:

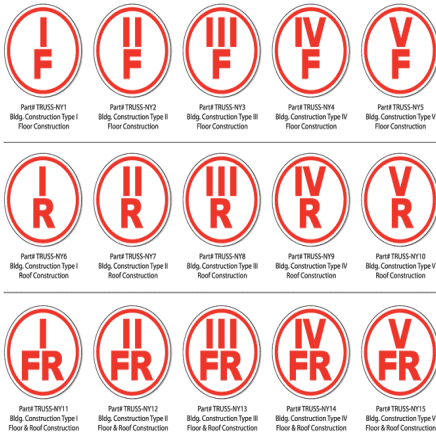
NFPA 13 has specific requirements regarding the physical design of signs for certain areas. All valve signs, hydraulic design signs, and general information signs must be a “permanently marked weatherproof metal or rigid plastic identification signs secured with corrosion-resistant wire, chain, or other 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”** or **FDC** 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. Anything different must be approved by the AHJ.

- 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 #	Sprinkler Description	Orifice	Deflector	Temp	Pressure	Quantity	Issue Date
GL896	GEORGE A. W. OR REC	3/8"	PCB	155	175	14	01-2012
TY918	TYCO 25.3K MK EC	1"	UPR	155	175	120	01-2012
RZ306	RELIABLE 11.2K BR EC	3/8"	UPR	155	175	9	01-2012
YD807	METALIC 8.8K BR DRY	1"	PCB	200	175	21	01-2012

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

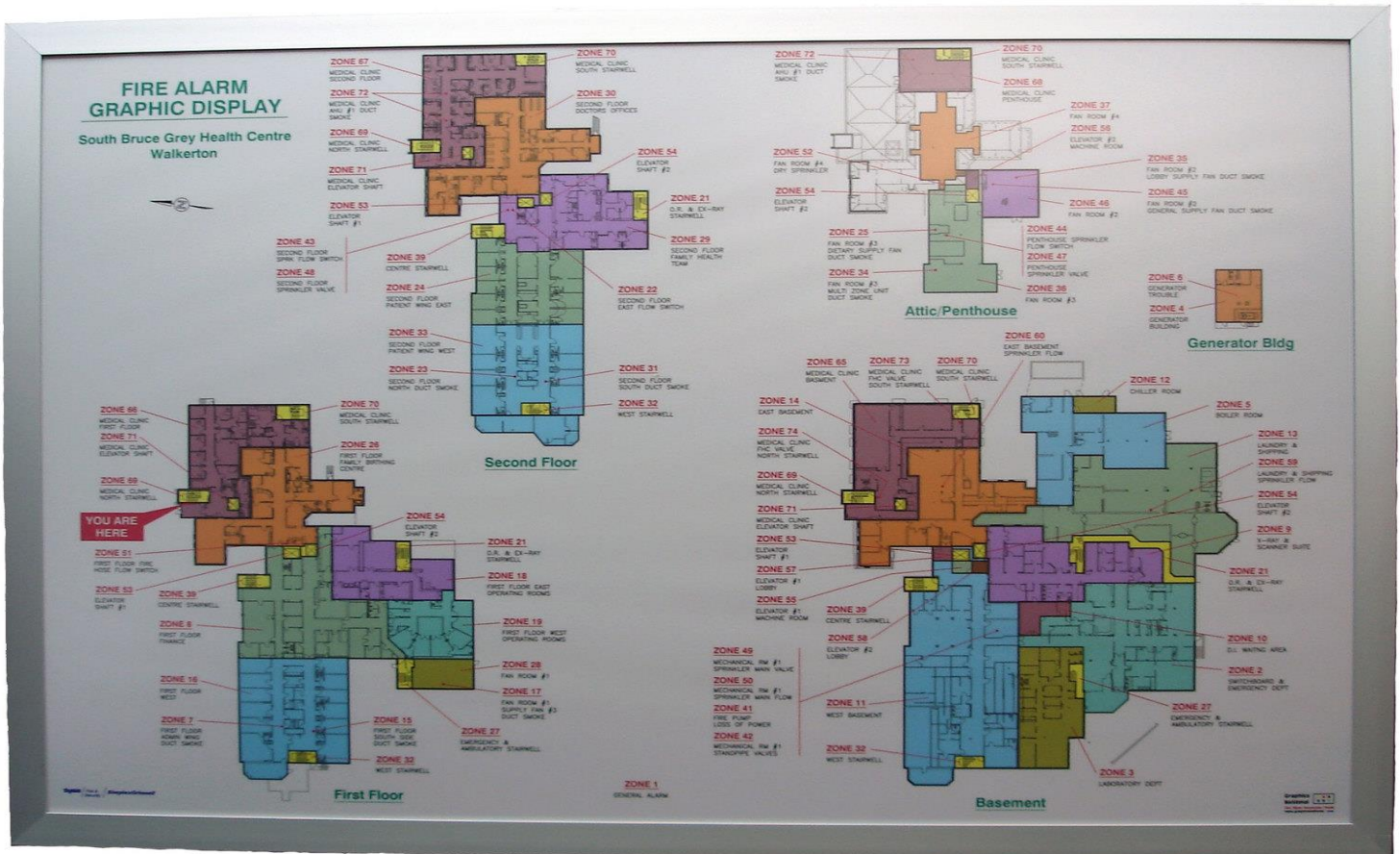


FACP / FIRE SPRINKLER RISER MAP LOCATION AND REQUIREMENTS

A fire alarm/sprinkler zone map shall be provided next to the fire alarm control panel. These map(s) shall show what areas of the building are covered by the system(s) installed. Maps shall be accurate, legible and easily understood. This sign shall be protected from damage/vandalism and shall be laminated or protected and permanently mounted on the wall in the FACP / Riser room. When a building is equipped with multiple fire protection systems, a diagram indicating the location of all control valves, sprinkler risers and the area(s) protected by each riser shall be posted next to the fire alarm annunciator. The system number shall be stenciled on each riser with 3" high white numbers. (e.g.- inside a certificate holder). When a building or system is modified, it is the responsibility of the contractor who made modifications to the system(s) to update these maps.

Fire Protection Signage Requirements The following minimum Items shall be included on the all FACP / Fire Sprinkler Zone map(s):

1. Name & Address of building or business
2. Date when FACP / Fire Sprinkler Zone map was installed
3. North arrow
4. You are here symbol to orient fire personnel with their location inside the building
5. Building layout
 - a. Stairwell identification
 - b. Location of fire-rated walls and their ratings
 - c. Knox Box location(s)
 - d. Room numbers / names (particularly electrical rooms, kitchens, break rooms and riser rooms), layout of major interior and exterior walls and area names (i.e. fabrication area, storage area, accounting area, etc....)
6. Fire alarm symbol legend
7. Segregation lines, hash marks or shading to show where one (1) zone stops and another zone begins. Fire alarm system notification zones should correlate with building smoke and fire zones. Not required on addressable FACP's.
8. Location of NAC panels
9. Point identification for each initiating device that matches what is shown on FACP and device.
10. Automatic Fire Sprinkler Information
 - a. Location of Fire Sprinkler Riser Room
 - b. Identification of all sprinkler zones
 - c. Standpipe outlets
 - d. Sprinkler control valves (Including PIV's and FDC's)
 - e. Water-flow alarm devices
 - f. Inspector's test valve(s)
 - g. Auxiliary drain(s)
11. Location of any Range hood suppression systems or Clean agent systems National Fire



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).