

FIRE GENERAL NOTES

Revised January 2022

1. Fire Department Connections (Reference Standard Detail F-4)
 - a. Shall be installed remote from the building or as approved by the fire code official.
 - b. Located outside all pedestrian paths of travel, with minimum 6-inch clearance from edge of path to riser.
 - c. Located out of the collapse zone, or as approved by the fire code official.
 - d. In an approved location along a public street or fire apparatus access road.
 - e. International Fire Code (IFC) 912.2.1 Visible Location: Fire department connections shall be located on the street side of buildings or facing approved fire apparatus access roads, fully visible and recognizable from the street, fire apparatus access road or nearest point of fire department vehicle access or as otherwise approved by the fire code official.
 - f. Located within 50 feet of a fire hydrant.
 - g. IFC 912.4 Access: Immediate access to fire department connections shall be maintained at all times and without obstruction by fences, bushes, trees, walls or any other fixed or moveable object. Access to fire department connections shall be approved by the fire code official
 - h. Shall be equipped with a 4-inch Storz adapter and a 30/120 degree downturn.
 - i. Be painted red and labeled with the building address.
 - j. Partial systems shall indicate the area covered by the system.
 - k. Be provided with additional signage as required by National Fire Protection Association (NFPA) 13.
 - l. All existing 2-½-inch “Y” fittings will be upgraded upon building improvements to the Storz type connection.
 - m. IFC 912.2.2: Wherever the fire department connection is not visible to approaching fire apparatus, the fire department connection shall be indicated by an approved sign mounted on the street front or on the side of the building. Such sign shall have the letters “FDC” at least 6 inches (152 mm) high and words in letters at least 2 inches (51 mm) high or an arrow to indicate the location. All such signs shall be subject to the approval of the fire code official.



- n. IFC 912.2 Location: With respect to hydrants, driveways, buildings and landscaping, fire department connections shall be so located that fire apparatus and hose connected to supply the system will not obstruct access to the buildings for other fire apparatus. The location of fire department connections shall be approved by the fire code official.
 - o. IFC 912.4.2 Clear Space Around Connections: A working space of not less than 36 inches

(914 mm) in width, 36 inches (914 mm) in depth and 78 inches (1,981 mm) in height shall be provided and maintained in front of and to the sides of wall-mounted fire department connections and around the circumference of free-standing fire department connections, except as otherwise required or approved by the fire code official.

- p. IFC 912.4.3 Physical Protection: Where fire department connections are subject to impact by a motor vehicle, vehicle impact protection shall be provided in accordance with Section 312 of IFC 912.4.3. See Standard Detail F-2.
- q. IFC 912.5 Signs: A metal sign with raised letters not less than 1 inch (25 mm) in size shall be mounted on all fire department connections serving automatic sprinklers, standpipes or fire pump connections. Such signs shall read: "AUTOMATIC SPRINKLERS" or "STANDPIPES" or "TEST CONNECTION" or a combination thereof as applicable. Where the fire department connection does not serve the entire building, a sign shall be provided indicating the portions of the building served.

2. Fire Access Roads

- a. Detailed plans must be submitted, and approved, prior to painting any new fire lane or modifying any existing fire lane.
- b. Dimensions: minimum 20 feet wide or minimum 26 feet wide in the vicinity of any building 30 feet in height above grade. Minimum vertical clearance of 13 feet, 6 inches. Minimum turning radius: 25 feet inside, 45 feet outside.
- c. Location: required 26 feet wide roads must be a minimum of 15 feet and a maximum of 30 feet from the building. Provide access to within 50 feet of the front of any multi-family residential building and provide access to within 150 feet of any portion of any building. Provide access to all on-site fire hydrants and fire department connections (FDC). A hydrant is required with 50 feet of any fire department connection (FDC) and must be not block access when connected.
- d. Additional requirements: be circulating or have an approved turn-around if over 150 feet (reference Standard Detail F-5), have grades of 14 percent or less; grades greater than 12 percent requires additional fire protection features.
- e. Be paved with asphalt or approved equivalent.
- f. Be capable of supporting the imposed loads apparatus, 75,000 pounds gross vehicle weight (GVW), 45,000 pounds point load.
- g. Be marked with words "fire lane - no parking". Words to be painted on the pavement with letters a minimum 12 inches high and yellow in color. As an alternative, the curb may be painted yellow in color with the words "fire lane - no parking painted in black with a minimum ½-inch stroke and 3 inches high.
- h. Have perimeter striping/curbing to delineate the boundaries of the fire lane. Striping to be a minimum of 4 inches wide and striping/curbing to be yellow in color and alternately spaced every 25 feet.
- i. When approved by the fire code official, signs may be used in addition to or in lieu of painting the pavement. Signs, when approved, shall meet the following requirements:
 - i. Size: 18 inches high by 12 inches wide (minimum).

- ii. Mounting: bottom of sign 48 inches to 60 inches above grade.
- iii. Style: industry standard (Vulcan r7-6-9, rainbow 01-527, EMED TC 18816 or equivalent).
- iv. Color: red lettering on white background.
- v. Spacing: 50 feet between signs or as directed by the fire code official.
- j. Fire lane standards for city center zones differ from the above; please contact the fire marshal's office for additional information.

Acronyms and Terms	Definition
IFC	International Fire Code
FDC	Fire Department Connection
Storz	Hose adapter type
NFPA	National Fire Protection Association