



UNIFIED STANDARD C

FIRE HYDRANT LOCATIONS AND DISTRIBUTION

SECTION C101 GENERAL

C101.1 Scope: Fire hydrants shall be provided in accordance with this code for the protection of buildings, or portions of buildings, hereafter constructed.

SECTION C102 LOCATION

C102.1 Fire hydrant locations: Fire hydrants shall be provided along required fire apparatus access roads and adjacent public streets.

SECTION C103 NUMBER OF FIRE HYDRANTS

C103.1 Fire hydrants available: The number of fire hydrants available to a building, complex or subdivision shall not be less than that determined by spacing requirements listed in Section C105 when applied to fire apparatus access roads and perimeter public streets from which fire operations could be conducted.

SECTION C104 CONSIDERATION OF EXISTING FIRE HYDRANTS

C104.1 Existing fire hydrants: Existing fire hydrants on public streets are allowed to be considered as available. Existing fire hydrants on adjacent properties shall not be considered available unless fire apparatus access roads extend between properties and easements are established to prevent obstruction of such roads.

SECTION C105 DISTRIBUTION OF FIRE HYDRANTS

C105.1 Hydrant spacing: Along all public and private water mains, hydrants shall be located at distances no greater than three hundred (300) feet apart, as measured along the main, except in areas of one-, two- and three-family residential buildings, such distance shall be no greater than five hundred (500) feet.

C105.2 Structure protection: Fire hydrants connected to the public water supply shall be located within four hundred (400) feet of all building access points as designated by the fire code official, and shall be measured along actual fire apparatus routes of travel.

Exception: In buildings and structures where automatic fire suppression is provided throughout, the number and locations of fire hydrants may be reduced or altered by the fire code official.

C105.2.1 Hydrant design: All fire hydrants, not part of a private yard system, shall meet the public water authority specifications and shall have at least two (2), two-and-one half (2-1/2) inch hose nozzles, and one steamer type nozzle of a size acceptable to the fire code official. The size of each nozzle shall be an inside measurement. All nozzles are to be equipped with a hose thread or connection and shall be acceptable to the fire code official. Fire hydrant colors shall be designated by the fire code official.



C105.2.2 Hydrant height and location:

Fire hydrant height shall be at least twelve (12) inches, but no more than twenty-one (21) inches above the surrounding finished grade. Such measurements shall be made from the bottom of the lowest nozzle on the hydrant barrel. Break type fire hydrants shall have such feature installed as close as practical, or to serve such purpose, to the surrounding finished grade. Fire hydrants shall be located back of curb or road surface no more than three (3) to five (5) feet.

C105.2.3 Hydrant service: A fire hydrant shall not be placed into or removed from service unless such condition is reported to the fire code official.

C105.2.4 Hydrant damage: Any person who damages a fire hydrant shall notify the fire code official, or the public water authority.

C105.2.5 Tampering: No person, shall knowingly move, deface, paint, damage, destroy or otherwise tamper with any fire hydrant, valve, plug, or other fixture or facility of the public water supply unless authorized in writing by the fire code official.

C105.2.6 Suppression System Hydrant: A fire hydrant meeting the specifications and installed according to this standard, and connected to a public water supply, shall be installed at a location designated by the fire code official that is within seventy-five (75) feet of a fire department connection, but no closer than forty (40) feet to the building or structure unless otherwise approved by the fire code official.

**SECTION C106
VALVE PITS**

C106.1 Valve Pit: In those locations where a sprinkler and/or standpipe valve pit is installed, said pit shall be provided with adequate drainage to the piping and valves. The pit floor shall be sloped to a corner opposite the lid providing either a floor drain complying with Section C106.1.1 or an approved electric sump pump located at the lowest corner of the floor. Valve pits shall be designed so as to prevent water run-off from entering said pit.

C106.1.1 Floor Drain: A minimum of a four (4) inch floor drain shall be provided and piped with a minimum two (2) percent grade to the storm sewer.