



Celina Fire Department

1413 S. Preston Road, Celina, TX 75009 972-382-2653

FIRE HYDRANTS

This guide is intended as a resource for the installation of fire hydrants to serve as the water supply for commercial and residential developments. Please refer to the 2012 International Fire Codes as adopted and amended by the City of Celina for all requirements. *Note: The City of Celina Engineering Department may have additional requirements for fire hydrant installation.*

Fire Hydrant Details

- 1) Fire hydrants are required to have (2) 2½” connections and (1) 4½” steamer connection. (NST) with a 5” Storz adapter.

Fire Hydrant Location

- 1) Fire hydrants shall be so spaced such that all portions of the exterior of the building are within the following distances as the hose lays: (*See Figure 1*)
 - a) 300-feet for all commercial structures/buildings
 - b) 400-feet for all one- or two-family subdivision projects
- 2) Spacing between fire hydrants shall not exceed a maximum of 400-feet along fire apparatus access roadways/fire lane.
- 3) Fire hydrants shall be located 3-8 feet behind the edge of the fire apparatus access roadway/fire lane pavement, unless otherwise specifically approved.

Fire Hydrant Supply

- 1) The total number of fire hydrant required will be based upon an evaluation of the projected fire flow required for the building(s).
- 2) Fire hydrants utilized to meet the requirements of this section shall be available to fire department personnel with no obstructions which cannot be crossed by fire fighters pulling hose lines.
- 3) Existing fire hydrants to be considered for use shall be indicated on the plans.
(*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. Existing fire hydrants on public streets are allowed to be considered as available where streets are not provided with median dividers, are not considered major thorough fares or State Highways, and are not arterial streets provided with more than two traffic lanes.*)

Fire Hydrant Access & Protection

- 1) A 3-foot clear space shall be maintained around the circumference of fire hydrants. (*See Figure 2*)
- 2) Where fire hydrants are subject to impact by a motor vehicle, guard posts shall comply with all of the following requirements: (*See Figure 3*)
 - a) Constructed of steel not less than 4-inches in diameter and concrete filled.
 - b) Spaced not more than 4-feet between posts on center.
 - c) Set not less than 3-feet deep in a concrete footing of not less than a 15-inch diameter.
 - d) Set with the top of the posts not less than 3-feet above ground.
 - e) Located not less than 3-feet from the protected object.

Fire Protection Systems

- 1) The Fire Department Connection (FDC) is required to be within 100-feet as the hose lays, of a fire hydrant.

Additional Requirements

- 1) Fire hydrants shall be installed and maintained PRIOR TO VERTICAL CONSTRUCTION of any building or structure.

Any questions should be directed to Chief Mark Metdker at 972.382.2653, or email at mmetdker@celina-tx.gov

Figure 1.

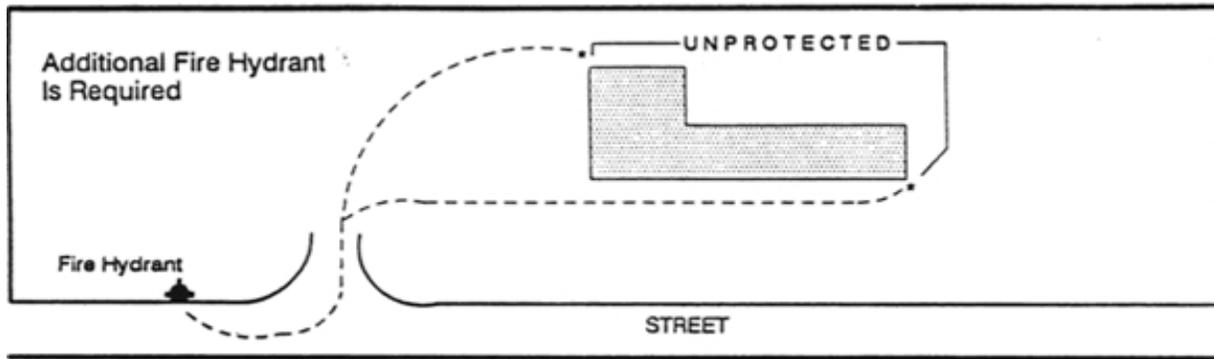


Figure 2.

Figure 3.