



Elk Creek Fire Protection District Fire Prevention Division

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SUPPLEMENTAL RULES & REGULATIONS

Number:	20-507.1		
Subject:	Fire Hydrant Water System Connections & Isolation Valves		
Code:	2018 International Fire Code	Code Section:	507.1
Effective Date:	May 1, 2020	Issued by:	Fire Marshal Roger Parker <i>Roger Parker</i>
Revision Date:	NA	Issued by:	NA
Supersedes:	NA	Date:	NA

AUTHORITY:

The 2018 International Fire Code §104.1 authorizes the *fire code official* to render interpretations of the fire code, and to adopt policies, procedures, rules and regulations in order to clarify the application of its provisions. Such interpretations, policies, procedures, rules and regulations shall be in compliance with the intent and purpose of the code. Such policies, procedures, rules and regulations shall not have the effect of waiving requirements specifically provided for in the code.

PURPOSE:

To establish rules and regulations regarding fire hydrant system water connections and isolation valves.

SCOPE:

This regulation covers all facilities, buildings, or uses within the Elk Creek Fire Protection District after the effective date.

CODE REFERENCES:

The 2018 International Fire Code §507.1 states:

507.1 Required water supply. *An approved water supply capable of supplying the required fire flow for fire protection shall be provided to premises on which facilities, buildings or portions of buildings are hereafter constructed or moved into or within the jurisdiction.*

SUPPLEMENTAL RULE OR REGULATION:

Fire hydrant water systems are required to be looped with a minimum of two separate connections under the following conditions:

1. Dead end water line exceeds 100' for 6" lines or 400' for 8" lines.
2. Water lines serve a building over 52,000 sq. ft. (40,000 sq. ft. when used for any amount of high-piled storage).
3. Water lines serve a building over two stories.
4. Water lines serve more than one commercial building.
5. Water lines serve over 30 single-family residential units.
6. Water lines serve a Group "H" occupancy.
7. As otherwise required by the fire marshal.

Where two fire hydrant water system connections are required, they shall be placed a distance apart equal to not less than one half of the length of the maximum overall diagonal dimension of the property or area to be served, measured in a straight line between the water connections.

Where two fire hydrant water system connections are required, they shall be made from separate water lines where possible.

Isolation valves shall be installed so that the maximum allowable length of water main required to be shut down for repair work shall not be more than 500 feet in commercial, industrial or multi-family residential districts, and 1,000 feet in other areas.

The Water District may require more frequent spacing of valves.

EXPLANATION:

Multiple connections, looped connections and isolation valves are required in order to minimize service outage in emergencies, repairs, etc., and to improve fire protection and water quality.