



# BRIGHTON AREA FIRE AUTHORITY

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## SITE WATER REQUIREMENTS

Through local ordinances in Brighton Township, Genoa Township, and The City of Brighton, the Brighton Area Fire Authority enforces the most current edition of the International Fire Code. Section 507 provides the basis for water supplies for fire protection, including fire flow.

Appendix B “*Fire-Flow Requirements for Buildings*” and Appendix C “*Fire Hydrant Locations and Distribution*” are specifically adopted to aid in uniform enforcement of the code and determination of needed water supply requirements.

### **Section 507.1 Required Water Supply States:**

“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.”

Areas within proximity of a municipal water system are required to extend and provide fire flow through that system in accordance with the provisions of the code and the water authority requirements. These sites are encouraged to provide buildings with approved automatic sprinkler systems to reduce the distance from water supply, number of required hydrants, and volume of required fire flow (507.5.1(2) and Appendix B105.2).

In areas not provided with a municipal water system; projects will be required to provide the site fire flow through tanks, reservoirs, wells or other *approved* means.

### **Procedure for calculating “Needed Fire Flow”:**

- 1.) Determine the proposed type of construction, square footage, and occupancy classification.
- 2.) Refer to Table B105.1(1), B105.1(2) & B105.2 for needed fire-flow and flow duration.
- 3.) With an approved sprinkler system, the required fire flow may be reduced to 25% of the required fire flow rate, but not below a minimum required flow of 1,500gpm for 2-hours for commercial and no less than 500 gpm for ½ - hour for residential.

A written plan should be developed during site plan review. Calculations of water supplies, location of wells, tanks, hydrants, etc. shall be shown on a separate sheet. For areas without water supplies, NFPA 1142, or the International Wildland Urban Interface Code may be utilized in assisting with developing alternative methods. (Appendix B section B103.3)

The Brighton Area Fire Authority will gladly review proposals and alternatives in accordance with the requirements of the code. If you have any questions, please feel free to give me a call at 810-229-6640.

Yours in Fire Safety,

*Rick Boisvert*

Rick Boisvert, CFPS  
Fire Marshal