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Commercial Fire Sprinkler System Plan Requirements

The information required for a complete plan review of commercial fire sprinkler system shall be as follows:

1. The applicable codes/standards are the 2016 Edition of NFPA 13 and the 2016 Edition of NFPA 70/NEC.

2. (1) copy of a Building/Sprinkler Permit Application is required to be completed at the time of application.

3. Permit Fees are required to be paid in full at the time of application. The forms of acceptable payment are check or cash.

4. Provide four (4) complete sets of drawings and submittal books.

5. The submittal books should include the manufacturer's technical data sheets, Anne Arundel County Department of Public Works Fire Flow Test performed within 12 months of application date, engineered Site Plan (or approved equivalent), and hydraulic calculations.

6. The drawings shall contain the information required by NFPA 13 (2016 Ed.) – Section 23.1.

7. The hydraulic calculations require a minimum of 15% safety factor (i.e. [1 – (system demand pressure ÷ supply pressure)] * 100).

8. Drawings are to be signed by a Maryland registered Fire Protection Professional Engineer or NICET certified technician, a minimum of (1) original/wet seal and signature shall be provided on the drawings and on the first sheet of the hydraulic calculations booklet.

9. If the fire sprinkler system is supplied by an existing fire pump then a minimum of (4) copies of the annual pump test shall be included in the submittal package.

10. If the building is supplied by a private fire hydrant then it is acceptable to perform a fire flow test without Anne Arundel County's Department of Public Works. The flow test must be witnessed by an authorized member of the Anne Arundel County Office of the Fire Marshal or by a Maryland registered Fire Protection Professional Engineer, who will be required to sign and seal the results.

11. For existing commercial fire sprinkler systems, it is acceptable to perform a base of riser flow test provided the test is witnessed by a Maryland registered Fire Protection Professional Engineer, who will be required to sign and seal the results.

It is important to note that if the Commercial Fire Sprinkler System Permit is in response to a Building Permit then the aforementioned Building Permit must be issued before the Sprinkler Permit can be applied for, reviewed, and ultimately approved.