TOWN OF SUFFIELD

83 Mountain Rd, Suffield, CT 06078
www.suffieldct.gov

Fire Marshal

Shop Drawings Requirements

1. Fire alarm systems:

   Shop drawing submittal for fire alarm systems shall include, but not be limited to, the following information, in accordance with Connecticut State Fire Safety Code and NFPA 72 under the current recognized standard edition or the latest edition but must be used in its entirety:

   - A floor plan that indicates the use of all rooms.
   - Locations of alarm-initiating devices.
   - Locations of alarm notification appliances, including candela ratings for visible appliances.
   - Location of fire alarm control unit, transponders and notification power supplies.
   - Annunciators.
   - Power connection.
   - Battery calculations.
   - Conductor type and sizes.
   - voltage drop calculations.
   - Manufacture's cut sheets for equipment, devices and materials.
   - Details of ceiling heights and construction.
   - The interface of fire safety control functions.
   - Classification of supervising station.

2. Fire sprinkler systems:

   Shop drawing submittal for fire protection systems shall include, but not be limited to, the following information, in accordance with Connecticut State

Fire Code and NFPA 13 or NFPA 13R under the current recognized standard edition:

- Cut sheets for sprinkler heads.
- Occupancy Class
- Full height cross-sections
- Value locations
- Sprinkler head specification type K-factor
- Structural details
- Hydraulic calculations (must include all fixed losses per manufacturers cut sheets to include metering devices tapped to a Connecticut Water Company or Aquarian Water Company and a fixed loss of 15psi for all backflow preventers).
- Utility plans indicating all below-ground piping and associated connections including sectional valves, PIVs and control valves.
- Owner's Certificate.
- Fire hydrant flow test or existing fire pump test within a 12-month period.
- Provide a permanent means to test the backflow downstream.

3. Shop drawings shall be submitted within 90 days of building permit issuance. Installation shall not take place until plans are reviewed and approved.
4. Plans will be reviewed within 30 business days, based on the size of the project from the date the reviewer receives them. We will notify the submitter when the review has been completed.

***Fire Alarm Shop Drawings are required for <u>5 or more devices and new panels.</u>**

***Fire Sprinkler Shop Drawings are required when <u>adding additional system demand.</u>**