

Middletown Fire Department
Fire Alarm System Submittal

Plan Submittal

Working plans in accordance to NFPA 72 and the Rhode Island State Fire Safety Code.

- Three (3) complete, detailed floor plans indicating devices and components (see attached list of requirements)
Reduced set (11"x17") required for acceptance test
- One (1) copy of the manufacturer's specifications and listings ("cut sheets")
- Identify scale used for plans
- Indicate type wiring to be used
- Manufacturer's cut sheets on and devices and components to indicate compatibility and electrical requirements and device testing specs.
- Battery calculations to be submitted
- Submittal of riser diagram
- All duct detection devices and sprinkler system devices (flow switches, tampers) to be on alarm system plans
- Description of elevator capture functions to be included with submittal
- Remote annunciator shall be indicated on plans and be accessible for fire department use

Note: Plans must be submitted to the fire department and approved prior to installation

Testing & Inspection

- 100% Acceptance test to be conducted in accordance with the Rhode Island State Fire Prevention Code. (See attached checklist)
- Devices to be mounted in approved boxes
- Coordination with all needed subcontractors should take place prior to scheduling test

System Requirements

- System shall be installed in accordance to Rhode Island State Fire Prevention Code & NFPA 72.
- Notification devices must produce a sound level of at least 15 dB above ambient room noise levels throughout.
- Alarm system to be powered from dedicated breaker with a breaker lock in place

Installer Requirements

- Copy of license - AF, BF
- Executed registration form

A. Plans:

Plans shall be produced in 1/8":1' or 1/4":11 scale, and be a maximum size of 30"x44", utilizing symbols outlined in NFPA Standard 170. The submittal shall consist of a floor plan, reflected ceiling plan, and building/area elevations for each floor that reflect the following:

1. Location of all devices
2. Type of device
3. Location of the fire alarm control panel (FACP)
4. Location of remote annunciators
5. Conduit connections and size
6. Type and size of wire or cable
7. Location of exterior mounted devices
8. Complete building address, to include floor and suite designations
9. Building owners name
10. Tenant business name

B. Wiring Diagram:

1. Provide both a point-to-point *and* riser diagram
2. Note the type of power supply for the control panel
3. External connections of modules in the control panel

C. Symbols list and equipment identification:

1. A symbol legend complying with NFPA Standard 170
2. Device model number, manufacturers specification and listing number

D. Alarm circuit load consumption:

1. Show quantity of audible devices on the furthest circuit and current consumption
2. Show length of the furthest circuit

E. Attachment to drawings:

1. Battery Calculations:
 - a. Stand-by power consumption of all current drawing devices
 - b. Alarm power consumption of all current drawing devices including operating signals, lights, relays, etc.
 - c. Formula format for battery calculations.
2. Sequence of operations:

Provide a step-by-step outline for the operation of each type of initiating device in the system, to include reset procedures.