

Fire Alarm Plans Submittal

The following information outlines the required documentation for the submittal of fire alarm plans

The Life Safety Code determines what occupancies are required to be protected with a fire alarm system. The installation of the fire alarm system must comply with the current state adopted editions of the following codes: NFPA 101, NFPA 72, NFPA 70, the International Fire Code, the Georgia Accessibility Code, and Georgia State Code amendments.

Two sets of fire alarm plans must be submitted to the Fire Marshal's office for the installation or alteration of any fire alarm system. A separate building permit is required for the plans even if the project has a general building permit. When electronically prepared, plans are to be submitted in hard copy and on disk with other related documents.

★ In order to help speed up the plan review process, please place reference to code sections used in the layout when exceptions are utilized.

Shop Drawings- shall include the following:

1. Name of owner or occupant
2. Location, including street
3. Date
4. Designers low voltage alarm license number & expiration date
5. Device legend

Floor Plan drawings- shall include the following

1. Floor identification
2. Point of compass
3. Graphic / reference scale
4. All walls and doors
5. Room descriptions
6. Fire alarm device/component location
7. All partitions within 18inches of the ceiling
8. Location of fire alarm primary and aux power connections and labeled
9. Location of monitor and control interfaces to other systems
10. Riser locations
11. Riser diagram
12. Strobe spacing details (overlay template)
13. Detector spacing details (overlay template)
14. Candela rating of strobes
15. DB level of horns

Control panel wiring diagrams- shall include the following:

1. Identification of the control equipment depicted (i.e. battery chargers, annunciators, power supplies and etc)
2. Locations
3. All field wiring terminals and terminal identifications
4. All circuits connected to field wiring terminals , and circuit identifications
5. All indicators and manual controls, including the full text of all labels
6. All field connections to supervising station signaling equipment, releasing equipment and fire safety control interfaces

Point to Point diagrams- shall be provided with plans submittal with the identification of NAC's and SLC's separately.

Typical wiring diagram- Shall be provided for all initiating devices, notification appliances, remote alarm light emitting diodes (LEDs), remote test stations, and end-of-line and power supervisory devices.

Battery Calculations-shall be included in all submittals.

★ Also include wire size(s) and voltage drop

Power Calculations-shall be included in all submittals

Sequence of operations sheet required.

Cut sheets-shall be included in submittal for all devices and the cut sheet shall be highlighted to indicate the following:

1. Specific device used
2. Model
3. Voltage drop

Note: All strobes shall be a minimum of 75 candelas to comply with the Georgia Accessibility Code.

Prior to Final Acceptance of system:

1. All fire alarm systems shall be 100% fully tested, operational, and monitored (if required) before scheduling for final inspection.
2. Please submit N.F.P.A. 72 Record of completion form, with all appropriate signatures, prior to scheduling for final inspection.

At final inspection:

1. The fire alarm contractor and any other contractor (to include but not limited to the HVAC contractor, elevator contractor, and fire sprinkler contractor) involved with the fire alarm and associated equipment shall have adequate personnel available during the acceptance test.
2. Items to be given to inspector:
 - a. A certification letter for system installation.
 - b. A disk containing as-built drawing and any related PDF files.