



FIRE ALARM REGULATIONS ADMINISTRATION

CITY OF LACONIA FIRE PREVENTION DIVISION
848 NORTH MAIN STREET, LACONIA, NH 03246

Call (603) 524-6881 for appointments and information

**FIRE
PREVENTION
Fire Alarms**

200-1

January 2017

GENERAL REQUIREMENTS

These requirements apply to all fire alarm systems installed for the purpose of providing automatic fire detection and reporting in accordance with the Code of Ordinances of the City of Laconia.

Federal "Americans with Disabilities Act" requirements are not included in these requirements and will be addressed on an individual basis. Please be aware that the Laconia Fire Department does not regulate ADA requirements. The Department will, provide guidance toward meeting those requirements, which are determined to be applicable to specific installations.

The intent of these requirements is to ensure the fire detection and alarm systems installed in Laconia, NH are designed, installed, and maintained to achieve the following:

High reliability.

Early warning to occupants.

Rapid communication of alarm to the Laconia Fire Department.

Ease of operation and understanding of the system for owners and firefighters.

Conformity to Laconia Fire Department operations and equipment capability.

Protection of the consumer with regard to system quality.

Reduction of needless alarms.

Better understanding between the contractors and the Laconia Fire Department of overall requirements.

Define and clarify Code requirements which are determined by the Authority Having Jurisdiction [AHJ].

Retroactivity:

These regulations, unless otherwise specified, shall refer to new building construction, to buildings substantially renovated, or to buildings where a change of use/occupancy has occurred where fire alarm systems are required. In the case of a change of use/occupancy, the most restrictive requirements of all of the occupancies involved shall apply.

Substantially renovated shall mean changes to the physical/permanent structure of the building, including changes to, addition or elimination of interior partitions, staircases, means of egress, or common areas. It shall not include addition/changes to mechanical systems, exterior renovations, painting, or other activities that do NOT change the physical layout of the occupancy.

PROCEDURE NECESSARY TO COMPLY WITH THESE REGULATIONS:

Initial Contact

Present a conceptual plan to the Laconia Fire Department, Fire Prevention Division.

Set up discussion meeting(s) if required to define the proposed system.

Obtain a Permit Application for "Installation of a Master Fire Alarm System" where required. Applications can be obtained at the Central Fire Station at 848 North Main Street in Laconia.

Submission of completed application and Fees:

Fees are assessed by the City of Laconia and are recorded in the Code of Ordinances.

Fees are subject to change upon approval of the Laconia City Council.

Submission of a complete set of plans for review:

Floor plan(s), drawn to scale, showing all device types, device locations, and zoning. No plans will be accepted with a scale less than 1/8" = 1'0". Plans must be submitted on paper not less than 8 1/2" by 11"

Wiring Riser Diagram.

Manufacturer's specification, technical and installation sheet for all components of the proposed system.

End of Line device locations.

Location of all fire suppression systems shall be shown on the plan.

Complete equipment list and specifications, one (1) copy to be retained by Laconia Fire.

Designation of the type of OCCUPANY as defined by the IBC International Building Code, and as determined by the Code Enforcement Officer of the City of Laconia.

Before submission to the Laconia Fire Department for acceptance, all fire alarm system plans shall be reviewed and approved by a Licensed Engineer, or be certified in writing by a UL or FM approved Fire Alarm Company. A written report shall be submitted, advising that all components used are compatible, voltage drops are less than 5%, and that the standby battery capacity is in accordance with NFPA requirements for 60 Hour Standby and 5 Minute Alarm at +40°F.

An all inclusive maintenance agreement is provided.

Inspection requirements

Inspection of all wiring and devices is required, including underground conduits before closing the trench. A minimum of 24-Hour notice is necessary to schedule and inspection.

“Rough In” inspections(s) before closing walls and ceilings.

Device boxes shall be marked to indicate the device for each location.

Final inspection shall be conducted prior to connection to the Municipal Fire Alarm System or to an Approved Central Station.

Submission of “As Built Plans”

As built plans for the completed fire alarm system shall be available during the final inspection and shall be submitted to the Laconia Fire Department upon completion of the final inspection.

Show all device locations as installed.

The riser diagram as installed.

A site plan showing all underground cable, conduit, wire type, and “tie” dimensions to be able to locate them later.

Other information required by these regulations that has been revised from the drawing package submitted to and accepted by the Laconia Fire Department.

APPLICABLE CODES AND ORDINANCES

All Master Fire Detection and Notification systems shall comply with the following Codes and Standards, as determined by the Authority Having Jurisdiction [AHJ]. Specific sections and or paragraphs are noted for reference, other sections may also apply.

National Electrical Code [NFPA 70] Current Edition.

Chapter 1, Article 100 [Definitions]

Chapter 1, Article 110 [Electrical Installations]

Chapter 2, Article 250 [Grounding]

Chapter 3, Article 300 [Wiring Methods]

Chapter 7, Article 725 [Signaling]

Chapter 7, Article 760 [Fire Protective Signaling Systems]

National Fire Alarm Code [NFPA 72] Current Adopted Edition

Life Safety Code [NFPA 101] Current Edition

Specific Sections as determined by the Authority Having Jurisdiction [AHJ]

International Building Code, Current Adopted Edition

Factory Mutual [FM] Standard for Interior Systems

Ordinances of the City of Laconia

Chapter 149, City Ordinance [Fire Prevention Code]

Chapter 53, City Ordinance [Building Code]

Laconia Fire Department Prevention Regulations

In the event of discrepancies between the *Laconia Fire Department Fire Prevention Regulations* and the referenced Standards and Codes, the *Laconia Fire Department Prevention Regulations* shall prevail unless a written waiver is granted by the Chief of the Laconia Fire Department.