

LONGMONT FIRE DEPARTMENT

FIRE CODES AND PLANNING, 225 Kimbark Street, Longmont 80501

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www.longmontcolorado.gov

FIRE ALARMS

NOTE: It is the responsibility of the designer/installer of record to assure that all applicable code requirements and local amendments are adhered to. The current adopted editions of the International Fire Code (IFC) and International Building Code (IBC) along with the associated National Fire Protection Association Standards shall be the primary, but not all-inclusive, resource documents.

PERMIT REQUIREMENTS

- No installation work shall be performed until plans are reviewed, approved and permit issued.

CONTRACTORS LICENSE

- The City of Longmont requires contractors to hold a D-15 Contractors License with a current, active status to do work on installing or modifying Fire Alarm Systems. Contact the Building Department at 303.651.8332 for assistance.

FEE PAYMENT

- Construction permit fees including any additional fees for re-submittals shall be paid before a permit is issued.
- Re-inspection and special inspection fees shall be paid before the fire department will approve a Certificate of Occupancy.

GENERAL REQUIREMENTS

- A fire alarm system shall not be used for any purpose other than fire protection or control of fire protection systems. Combination fire and security panels are not permitted.
- Notification of alarm signals shall be audible and visual throughout the building's occupied areas.
- Smoke detector heads shall not be installed until all construction work is completed; including trim, painting and floor coverings.
- To assure that your submittal and the installation in regard to the fire alarm system are in accordance with the local amendments to the IFC, as adopted, please check the City of Longmont website at www.longmontcolorado.gov.

SUBMITTAL REQUIREMENTS

- Submit two (2) complete sets of fire alarm plans and cut sheets. One set will be retained in the fire department files, the second set will be returned to the applicant. If additional approved drawings are required, please submit them at time of application.
- A completed Longmont Fire Department permit application is required with the submittal. Submittals will not be placed into the review queue until a complete application is received.
- Drawings shall be drawn to scale; minimum 1/8 inch = 1 foot.
- Drawings shall include a one-line riser diagram; all zones, notification circuits, auxiliary circuits, circuit designation and central station connect.
- A complete legend of all symbols is utilized shall be provided on the drawings.
- Drawings shall show: ceiling heights, ceiling construction and ceiling slopes.
- Allow for a two-week turn around on plan reviews.

Submittal shall include:

- Highlighted cut sheets for all equipment to be installed.
- FACP (type, listing)
- DACT (type, listing)
- Batteries (voltage, ampere-hour)
- Smoke Detector (type, configuration, spacing)
- Heat Detector (type, configuration, spacing)
- Shunt Trip Heat Detector (type, rating, RTI or temperature rating)
- Sprinkler Head used in conjunction with Smoke Detector (type, rating, RTI or temperature rating)
- Manual Pull (type, configuration)
- Audible Appliance (type, rating, power taps) Alarm temporal pattern shall be keyed to one half to one second "on" and one second "off" for three cycles. The alarm signal shall be repeated for the duration that the fire alarm system is activated.
- Visual Appliance (type, coverage)
- Protective Covers (type, attenuation)
- Water Flow Device (type, configuration)
- Supervisory Device (type, configuration)
- Sequence of Operation, Matrix Configuration
- Class and Style of Initiating Device Circuits
- Class and Style of Signaling Line Circuits
- Class and Style of Notification Appliance Circuits
- Battery Calculations
- Wire Size
- Voltage Drops
- Alarm signals programmed to be transmitted (ie alarm trouble, supervisory, restore, etc.)

DOCUMENTATION

- UL listed supervising station name or remote station
- Zone identification
- Zone/Address wording

- Measured or estimated ambient sound levels used. Alarm signal devices shall produce a sound that exceeds the Average Ambient Sound Level, Table A-6-3.2 in the National Fire Alarm Code (NFPA Standard 72) in the room by 15 decibels minimum, or 5 decibels above maximum sound lasting 60 second or greater. The fire alarm signal shall not exceed 120 decibels for any occupied area.
- Design parameters and values if Appendix B calculations were used
- All deviation(s) from the AHJ's adopted Code(s), Standard(s) and/or Amendment(s) requested by the Building Owner shall be submitted in writing.

The following information should be included:

- The current requirement
- The proposed change
- Written technical documentation justifying the proposed change.

SCHEDULING AN INSPECTION

In order to provide better customer service, the Longmont Fire Department has started using the automated inspection request line operated by Building Inspection.

Please use the instructions listed below to schedule all inspections.

You will need to schedule your inspections online at

<http://longmontcolorado.gov/departments/departments-a-d/building-inspection/inspections>

INSPECTIONS

- **The permit holder is the only one that may request inspections.**
- A record of completion, Section 7.8.2 (a) in NFPA 72, shall be prepared for each system.
- Record of completion shall be completed prior to final inspection testing.
- If any changes are made from the original approved plans, as built and all certification papers shall be made available to the fire department, on site, at the time of final inspection.

NOTE: Absolutely no acceptance testing will be conducted prior to the completion of all construction including painting, cleaning, carpet installation, etc.