

## **LONGMONT FIRE DEPARTMENT SUPPORT SERVICES DIVISION**

225 Kimbark Street  
Longmont, Colorado 80501  
Phone: 303.651.8437  
Fax: 303.774.4682  
[www.ci.longmont.co.us/fire](http://www.ci.longmont.co.us/fire)

### **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.ci.longmont.co.us](http://www.ci.longmont.co.us).

#### **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 [www.ci.longmont.co.us/bldginsp/inspections/index.htm](http://www.ci.longmont.co.us/bldginsp/inspections/index.htm) or on the phone with the automated system at 303-774-4595.

- **Scheduling online**

1. Click on the yellow box "online scheduling" in the upper right hand corner of the screen.
2. Enter your BUILDING PERMIT #, which begins with a "B" and then click "Lookup Permit".
3. A screen with the permit #, type of permit, job address, and status will appear. You will then need to click "Schedule" on the lower right corner of the screen.
4. You will now be able to choose the inspection, date and time of day from the drop down menus. At this time you can also add a phone number and additional comments.
5. Click "Schedule Now" and repeat steps 1-5 if you have more than one inspection that needs to be scheduled.

If you have problems using the online system, you can call the Building Inspection Officers at 303.651.8332 between 8am-5pm.

- **Scheduling on the phone**

1. Dial 303-774-4595
2. Press "1" and you will be directed the automated scheduling system.
3. Press "1"
4. Press "1" for permits beginning with letter "B"
5. Enter the remaining number only. Include all numbers including zeros.
6. It will read the Building permit # back to you. If correct press "1" or to re-enter press "2".
7. It will read back the address and status. Press "1" to schedule an inspection.
8. Enter inspection code # followed by the # sign:  
0600 – Fire – Kitchen Hood/Extinguisher

0605 – Fire – Fire Sprinklers Rough

0610 – Fire – Alarms Rough

0615 – Fire – Ceiling Close

0635 – Fire – Test of System

0645 – Fire – Monitored & Online

0650 – Fire – System Approved

0955 – Fire – Fire Final

9. It will read back the inspection # & inspection. Press “1” if correct or press “2” to re-enter.
10. Press “1” for next day. Press “2” for 2 days out.
11. Press “1” for no time of day preference or press “2” for AM or press “3” for pm.
12. Enter a contact phone number
13. Wait for confirmation #
14. Press “1” to repeat confirmation # or press “2” to enter more inspections for this permit or press “9” to exit.

## **INSPECTIONS**

- **The permit holder is the only one that may request inspections.**
- A record of completion, Section 1-7.2.1 in NFPA 72, shall be prepared for each system.
- Parts 1, 2, and 4 through 10 shall be completed after the system is installed and the installation wiring has been checked.
- Part 3 shall be completed after the operational acceptance tests have been completed. A preliminary copy of the record of completion shall be given to the system owner, and where requested, to other authorities having jurisdiction after completion of the installation wiring tests.
- A final copy shall be provided after completion of the operational acceptance tests in conjunction with the fire department.
- 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.