



FIRE ALARM SYSTEM SUBMITTAL REQUIRMENTS

These guidelines are to be followed when a business, facility or organization proposes to install or modify a Fire Alarm system within the Lake Cities Fire Department Jurisdiction. This document shall assist in the preparation of a submittal for permit. These guidelines are not to be interpreted as containing all data required for proper design, installation, or approval.

Reference Notes:

- A separate address, floor, suite, or system requires a separate submittal and permit. Please do not include more than one job per plan submittal.
- Installation of a fire system related panel will require a cut sheet and battery calculations.
- A full set of plans and equipment submittals are required. (Exclude equipment list if only relocating).
- Refer to the current adopted edition of the IBC, IFC, IMC and Lake Cities Fire Department for specific fire alarm requirements. Lake Cities Fire Department recognizes the most recent edition of the NEC.
- Per NFPA 72, strobes in view of one another must synchronize even if on separate systems. You will be responsible to see that your devices synchronize with existing devices – **Plan Accordingly.**

All fire alarm systems for the purposes of this guideline and the requirements of the Fire Department shall conform to the current adopted International Fire Code and amendments by Lake Cities Fire Department.

This guide does not replace, nor supersede any codes and/or ordinances adopted by Hickory Creek, Shady Shores, Lake Dallas, Corinth.

INCOMPLETE PERMIT APPLICATIONS WILL NOT BE REVIEWED.

Provide the following on all plan sheets (3 Sets required):

1. Company Name, Address, City, State & Zip, Phone Number and State Registration Number
2. Planner's Name, License Number and Original Signature 3. Project Name, Address, City, State & Zip
3. Scale 1/8" = 1' Minimum, (1/16" = 1' Acceptable for Large Buildings)
4. Identification of areas that are "Not in Scope"
5. Room Identification as to use
6. Ceiling Construction and Height (if Devices are Ceiling Mounted)
7. Point-to-Point Wiring from Fire Related Panels to all Devices
8. Zone or Address Point Identification of Initiating Devices
9. Circuit Identification of Indicating and Releasing Devices
10. Strobe Candela Rating
11. Speaker Voltage and Tap Information
12. "Cloud", or Indicate, Revisions on Re-submittal or Additional Submittal
13. Occupancy Classification and Occupant Load
14. Indicate New or Existing Building
15. Fully Sprinkled or Not
16. Conduit Types and Sizes
17. Symbol Legend – quantities of each device

18. Schematic Riser Diagram
19. Input/Output Matrix or Narrative Defining the Sequence of Events
20. Description of System Monitoring
21. Cover Sheet Indicating Name, Address, City, State & Zip and Permit Number of the Project
22. Scope of Work
23. Manufacturer Cut Sheet for all Fire Related Panels, Wire, and all Devices
24. Battery Calculations for all Fire System Related Panels
25. Voltage Drop Calculations for Indicating and Releasing Devices
26. Amplifier Load Calculations
27. U.L. Compatibility Listing between System Components and the FACP

Special Requirements

28. Only one fire alarm panel is allowed per building.
29. New fire alarm systems shall be addressable.
30. Fire alarm systems utilizing more than 20 smoke detectors shall have analog initiating devices.
31. The fire alarm control panel shall be located in the fire riser room. For the fire alarm control panel to be located in other areas of the building, it will be on a case-by-cases bases and approved by the fire code official. An annunciator panel shall be required in the riser room for fire alarm panels not located in the riser room.
32. A smoke detector is required over all fire alarm control panels, notification power supplies, and monitoring transmitting equipment.
33. Systems shall be resettable without any special knowledge or the use of an access code.
34. Manual Pull station shall be located at a path of egress and shall be of double action type.
35. When fire alarm is silenced, strobes will continue to flash until system is rest.
36. Duct detectors shall be supervisory and required on HVAC units that exceed 2,000cfms. The duct detector shall be located on the return side. HVAC units exceeding 15,000cfms duct detectors shall be located on the supply and return.

37. Above the ceiling duct detectors shall be provided with a remote reset switch and shall be accessible from the floor without a ladder or have the ability to reset the duct detector from the fire alarm panel.

38. Exterior horn strobe shall be located above the FDC. If a remote FDC is installed, then the exterior horn strobe shall be located by the riser room.

39. Exterior horn strobe shall activate on all alarms.

NOTE:

40. Re-inspection fee – If it does not meet the requirements or fails to operate, there may be a re-inspection fee.

The issuance of a Fire Department Construction Permit from the Lake Cities Fire Department does not relieve the applicant of any permits required by the Cities of Hickory Creek, Shady Shores, Lake Dallas, or Corinth Building Department.

**Submit Plans To
Lake Cities Fire Department
3501 FM 2181 Suite B Corinth, TX 76210
Phone: 940-279-4590 Fax: 940-497-3455**