

FIRE ALARM PERMIT PLAN REVIEW REQUIREMENTS

General Requirements

- Submit a minimum of two complete sets of plans, drawn to scale, for each fire alarm system being installed.
- If the plans are a deferred submittal, they must be submitted to and approved by the Design Professional in Responsible Charge (DPRC) of the project. The plans should then be forwarded to the Building Division, with written approval from the DPRC, for our approval. The equipment shall not be installed until our approval has been granted.
- If the proposed installation is a retrofit, upgrade, or new installation in an existing building, the wet stamp or seal of an architect or engineer licensed to practice in Idaho is required to be on each set of plans by the Ada County Building Code.
- The contractor is responsible for insuring that the work being done is in compliance with the approved plans and all locally adopted codes. Any deviation from the approved plans requires additional approval after re-submittal to Ada County Development Services..

Plan Review Application

This section facilitates application for plan review. Included are the most frequently found code problems and the standard policies for plan review and system acceptance required by the code enforcement office.

Plans shall only be submitted to the jurisdiction having authority. Submittals require the completion of the "Fire Alarm Review Submittal Sheet". Plans will not be accepted without a completed application, **NO EXCEPTIONS**. (Note: When using a courier or mail service, ensure that a completed form is attached.)

Drawing Shall Include As A Minimum:

- Permit Number;
- Project Name;
- Project Address;
- Contractor Name, Address, and Phone Number;
- Name of Architect and/or Engineer, and Licensee Number;
- Drawing Scale;
- Date;
- North Arrow;
- Legend;
- Floor plans drawn to scale;
- At least one (1) reference dimension for scale verification;

Applicable notes that identify:

- Authority having jurisdiction;
- Designed-in-accordance with code and code date;
- Duct detectors to sound supervisory signal only - not a "general alarm;"

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- Primary power to be 110 – volt dedicated circuit;
- Pull stations signs shall have a 4-inch minimum dimension. Sign letters shall be at least one (1) inch high of a color that is in contrast with the sign background;
- Separate circuit wiring (not conduit) diagrams for the initiation and annunciation circuits;
- Simple site map inset showing building site in relation to relevant street(s);
- Drawing size shall be drawn to scale on clean and clear floor plans, and identify the use of each room. Electrical or other busy architectural plans shall not be submitted;
- Circuit wiring from device - to – device shall be drawn on the plans including end – of – line resistors where required;
- Addressable or analog systems show device address number on the plans;
- A licensed contractor must sign all calculations.

Specification Submittals Shall Include:

- A brief description of the system design, operation, and reset functions;
- Manufacturer's product information sheets (technical bulletins) that include design parameters and power requirements;
- Battery size calculations and battery discharge curves;
- Voltage drop calculations;
- Wire specifications;
- Riser diagram;
- List of materials and quantities;
- Addressable device list;
- Type of primary and secondary power;
- When indicating the equipment used in the specification book, use arrow to identify the model or part, do not use highlighters, as they will not microfilm.

Fire Alarm System Requirements Include:

- Hard-wired systems shall be zoned by device type (e.g., water flow, smoke, heat, manual pull, or fixed extinguishing system) per floor with a maximum 10,000 square feet zone. Addressable or analog systems shall show address numbers on the plans and provide a detail list of address verbiage for approval;
- The main power shall be from a dedicated circuit;
- All systems shall be supervised;
- Where the fire alarm control panel is not visible from the front (main) entry, a remote annunciator shall be located at the entry;
- Systems shall be restorable without the use of a password or any special knowledge. This can be accomplished through the use of buttons or switches located at the remote annunciator or main control panel;
- Horns and/or speakers are not to be located in the stairwells. Horns shall not be in restrooms;
- Fire Alarm Systems that monitor Fire Sprinkler Systems shall be monitored a UL approved central station;

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- Local Fire Alarm Systems (no outside-agency system monitoring) shall have warning signs above each pull station;
- Fire pumps shall be monitored at the Fire Alarm Panel for "Pump Running", "Phase Reversal", and "Power Available" status.

Policies

Ada County's goal is to complete plan reviews in the shortest possible time. We will strive to complete a plan review in five (5) to ten (10) working days.

Codes

Ada County reviews plans for accordance with locally adopted codes including 2006 International Fire Code and 2006 International Building Code.