



## **Travis County ESD No. 12**

11200 Gregg Lane  
Manor, Texas 78653  
(512) 272-4502  
FirePrevention@tcesd12.com



### **FIRE ALARM PLAN REQUIREMENTS**

---

Travis County ESD No. 12 is governed by the 2015 International Fire Code as amended and adopted. The submittal shall conform to that, and the most current edition of NFPA 72 and all other applicable codes and standards. The use of newer editions of code references is acceptable as long as the design meets or exceeds the requirements of the current adopted editions.

---

**THE INFORMATION IN THIS DOCUMENT IS NOT ALL INCLUSIVE OF POSSIBLE ITEMS REQUIRED PER CODE. IT IS THE RESPONSIBILITY OF THE DESIGNER AND SUBMITTING CONTRACTOR TO INCLUDE ALL THE PERTINENT INFORMATION NOT MENTIONED IN THIS DOCUMENT.**

---

**REQUESTS FOR FIRE ALARM INSPECTIONS WILL ONLY BE ACCEPTED FROM THE FIRE ALARM CONTRACTOR.**

---

#### **INFORMATION ABOUT FIRE ALARM PLAN SUBMITTALS**

- The fire alarm plan shall be approved by Travis County ESD No. 12 prior to the installation of any system components.
- The approved fire alarm plan shall be on site at all times for Travis County ESD No. 12 inspections. The Travis County ESD No. 12 inspector will not perform the fire alarm inspection without the Travis County ESD No. 12 approved fire alarm plan.
- If multiple buildings are on the site, a separate Travis County ESD No. 12 application shall be provided for each building on the site. A separate fire alarm plan shall be provided for each building unless otherwise directed by Travis County ESD No. 12 personnel.

#### **FIRE ALARM PLAN REQUIREMENTS**

- The cover page shall include:
  - Name of the project
  - Address of the project/buildings
  - Project information/Scope of work
  - Travis County ESD No. 12 Reviewer Signature Block
  - Name, professional seal, and license(s) of registered professional engineer
  - Contact information for property owner
  - All applicable codes referenced and applied for the project
  - Occupancy type(s) of building(s)
  - Sheet index corresponding to all pages of the submittal
  - Revision table
- The Travis County ESD No. 12 Fire Alarm Notes shall be on the plan.
- Applicable technical data sheets shall be included with the fire alarm submittal.
- The sequence of operations shall be clearly shown on the plan. The sequence of operations shall be detailed and show all alarm, supervisory and trouble conditions and all emergency functions. Some of the emergency functions include, but are not limited to, door release, elevator recall and emergency warning light illumination, smoke control, other extinguishing systems and HVAC shutdown.
- Each device, appliance, circuit, and component shall be indicated and enumerated on the floor plan.

- Riser diagrams delineating each floor, circuit and zone and all devices, appliances and/or components shall be provided.
- The location of any remote annunciators shall be clearly noted on the plan.

#### **FIRE ALARM INSTALLATION INFORMATION**

- The FACP or a fully functioning annunciator shall be in the sprinkler riser room, unless otherwise approved by Travis County ESD No. 12.
- The room containing the main fire alarm control panel shall be in a room that is accessible from the exterior of the building. The room shall be appropriately labeled and provided with a Knox box. Refer to the Travis County ESD No. 12 website for signage requirements.
- Access and working space shall be provided and maintained about all electrical equipment which includes but is not limited to, the fire alarm panel, fully functioning annunciator, or any related fire alarm components. The access and working space shall permit ready and safe operation and maintenance of such equipment. A minimum of 36" clear working space shall be provided.
- A minimum of one weatherproof horn/strobe will be required on the exterior of the building. This device shall be a minimum of 75 cd. Additional horn/strobes may be required and the locations of the horn/strobes will be determined during the plan review process.
- The exterior horn/strobe shall not be able to be silenced while water is flowing. This notification device shall be wired from the fire alarm control panel as a dedicated latching circuit and shall be supervised.
- The Travis County ESD No. 12 approved fire alarm plan shall be kept at the main fire alarm control panel in a secure document box.
- The FACP shall be protected with a smoke detector.
- The alarm system circuit breaker power disconnect shall be accessible to only authorized personnel and marked red or as "fire alarm." The electrical panel housing the circuit breaker shall be in a secure room and the circuit breaker shall be marked in red and locked in the open position.
- Waterflow switches shall be provided on the fire sprinkler riser on every floor of a multi-story building. Each waterflow switch shall report to the FACP to indicate the location (floor) of the waterflow activation, as required by Travis County ESD No. 12.
- The waterflow alarm signal shall not be able to be silenced while the water is flowing and shall be connected to the service panel on an uninterruptible house circuit.
- The activation of all sprinkler valve tamper switches shall cause a supervisory signal.
- Storage batteries shall be marked with the month and year of manufacture.
- Duct detectors shall be required on any single AHU with an air exchange of 2000 cfm or greater or when the co-mingled air of multiple units totals at least 2000 cfm. Contact Travis County ESD No. 12 for coverage requirements if RTU/MAU's are present.
- Duct detectors shall cause a supervisory signal at the alarm panel and the central station monitoring agency.
- If building is equipped with sprinklers in the elevator shaft, the shunt trip shall be monitored.
- Where a building fire alarm system is installed, automatic fire-extinguishing systems shall be monitored by the building fire alarm system.
- Alarm signals shall be a three-pulse temporal pattern.
- Carbon monoxide signals shall be a four-pulse temporal pattern. If deemed necessary by the specific application, a separate sheet of the alarm plans shall be dedicated specifically to the location of carbon monoxide detectors and the subsequent monitoring of specific appliances and devices.

## SCOPE OF WORK TESTING AND FINAL ACCEPTANCE TESTING

- Testing and service personnel shall be qualified and experienced per NFPA 72.
- The scope of work shall be tested by the installer prior to the Travis County ESD No. 12 inspection to determine the system functions properly as approved and meets all applicable code requirements. Proof of the system pre-test may be requested by the Travis County ESD No. 12 inspector.
- The fire alarm system shall report to the monitoring center with the device type and **specific** location. The fire alarm system shall identify the specific initiating device type, specific location in the building (ex. outside room 203), floor level if applicable, and alarm status at the main fire alarm control panel. Contact Travis County ESD No. 12 for clarification if needed.
- The general contractor and the sprinkler contractor shall be present during the fire alarm final inspection.

## ADDITIONAL INFORMATION

- Approval of this plan submittal does not constitute a verification of all data, codes, information, and calculations supplied by the applicant. The licensed designer and/or professional engineer of record is solely responsible for the completeness, accuracy, and adequacy of the submittal whether or not the plan submittal is reviewed and approved for code compliance by Travis County ESD No. 12.