

SECTION 28 47 00

MASS NOTIFICATION SYSTEM (DURESS)

PART 1- GENERAL

1.1 SUMMARY

- A. This specification section covers the furnishing and installation of an audio and visual mass notification system.
- B. Contractor shall furnish and install hardware devices, mounting brackets, power supplies, controls, and other components of the system as shown and specified.
- C. Contractor shall furnish and install access control integration related connections to allow this system reporting.
- D. Furnish and install outlets, junction boxes, conduit, connectors, wiring, and other accessories necessary to complete the system installation. Requirements shall be in accordance with Division 26, Electrical.
- E. Furnish and install connectors, wiring, and other accessories necessary to complete the system installation. Requirements shall be in accordance with Division 27, Communications.

1.2 SUBMITTALS

- A. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.

1.4 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.5 WARRANTY

- A. Provide 2 Years.

1.6 COORDINATION

- A. Coordinate work of this Section with other directly affected Sections as well as Electrical Engineer, Electrical Contractor, and General Contractor for location of conduit and .and electrical boxes.
- B. Conduit and raceways as needed for electrical hardware items. Fire/life-safety system interfacing. Point-to-point wiring diagrams plus riser diagrams to related trades.

- C. Contractor shall obtain from General Contractor or DPS any areas of asbestos within the School of which they are working.

PART 2 - FUNCTIONS

2.1 NOTIFICATION

- A. The audible notification appliance network consists of speakers located to provide intelligible instructions at locations designated by DPS. The Mass Notification System announcements shall take priority over all other audible announcements of the system including the output of the fire alarm system in a normal or alarm state. When a mass notification announcement is activated during a fire alarm, all fire alarm system functions shall continue in an alarm state except for the output signals of the fire alarm audible and visual notification appliances.
- B. Provide strobes to alert hearing-impaired occupants at locations designated by DPS.
- C. DPS Dept. of Safety personnel can initiate delivery of pre-recorded voice messages, provide live voice messages and instructions, and initiate visual strobe notifications. The autonomous voice notification control unit will temporarily override audible fire alarm notification while delivering Mass Notification messages to ensure they are intelligible.

PART 3 - PRODUCTS

3.1 MANUFACTURERS

- A. Acceptable Manufacturer: Mercury Security (Open Options), Altronix, Safety Technology International, and System Sensor.

3.2 PRODUCTS

- A. Strobe:
 - 1. Product: Model SWK-P with LENS-B blue lens - manufactured by System Sensor.
- B. Access Control Boards:
 - 1. Product: Model MR51E – manufactured by Mercury Security.
To be used with one strobe.
 - 2. Product: Model EP1502 – manufactured by Mercury Security.
To be used with two strobes per card.
- C. Power Supply:
 - 1. Product: Model AL600ULXB – manufactured by Altronix.
To be used with two strobes per card.
- D. Enclosures:
 - 1. Product: Model STI-EM08073.5– manufactured by STI.
To be used with MR51E card.
 - 2. Product: Model Trove1M1 – manufactured by Altronix.
To be used with EP1502 card.

PART 4 - EXECUTION

4.1 GENERAL

- A. In accordance with Section 28 05 00, Access Control General Requirements. Site Verification of Conditions

4.2 PREPARATION

- A. General Contractor or Electrical Contractor to furnish any inserts required for building into concrete, masonry, and other work, to support and attach work of this section. Furnish in ample time to comply with schedule of work into which inserts are built.
- B. Verify that building structure is properly prepared for mounting, attachment and support of equipment.
- C. Prior to installation of systems components and devices, verify all required preparations have been properly performed and that substrates are acceptable for installation.
- D. Report in writing to the Architect any prevailing conditions that will adversely affect satisfactory execution of work in this Section.

4.3 FINAL PROCEDURES

- A. Perform final procedures in accordance with section 28 05 00, access control general requirements.

4.4 PROGRAMMING

- A. All programming of devices to be completed by DPS Dept. of Technology.

PART 5 – DRAWINGS

- A. 28 47 00-1 Mass Notifications System Wiring Diagram

END OF SECTION 28 47 00