

## SECTION 27 51 25 - INTERCOM SYSTEM

## PART 1 - GENERAL

## 1.1 SUMMARY

- A. This Section contains the requirements for the Intercom System. The system provides basic call with video from multiple locations to four master stations in the building. The system also has the capability as indicated on the drawing to send a closure to the access control system allowing access to be granted to an area.
- B. The system shall be an extension of the existing Aiphone IX video intercom system.

## 1.2 PRODUCTS INSTALLED BUT NOT SUPPLIED BY THE INTERCOM SYSTEM CONTRACTOR

- A. The Contractor shall be responsible for the interconnection of the intercom system to the Access Control System. The ISC shall verify the exact requirements with the Access Control Contractor to assure that these requirements are successfully executed.

## 1.3 RELATED SECTIONS

- A. Section 270500 – Communications Common Work Results
- B. Section 270524 – Technology Firestopping
- C. Section 270528 – Pathways for Communications Systems
- D. Section 271513 – Communications Copper Horizontal Cabling System
- E. Section 281300 – Access Control System

## 1.4 REFERENCES

- A. NFPA 70 – The National Electrical Code

## 1.5 SYSTEM DESCRIPTION

- A. The Intercom System shall be a new door entry system that appears in several locations. The Contractor shall thoroughly review the plans to account for all systems. These systems include, but may not be limited to, each of the main building entrances, food service delivery door and athletic entrance.

## 1.6 SUBMITTALS

- A. Product Data Sheets
- B. Product Data Sheets required under this Section's scope of work shall be:
  - 1. Door Entry Stations
  - 2. Master Stations

3. Power Supplies
  4. Relay Modules
- C. As-built documentation for all occurrences of the systems provided under the scope of the Specification shall be provided to the Engineer for review and approval, and upon approval of the Engineer, provided to the Owner.
- D. As-built documentation shall contain, at a minimum:
1. Locations of all the systems provided,
  2. Riser(s) with all details of the individual installations, including, but not limited to,
    - a. Device or component manufacturer and model numbers,
    - b. Specific I/O points on the devices or equipment;
    - c. Type of cable(s), and any cable ID installed;
    - d. Nature of signal being transmitted, such as VGA or IR Control;
    - e. Any other pertinent detail of the interconnection to assist in the ongoing maintenance and upkeep of the system.
    - f. Note: Where the systems provided repeat in layout, a single riser may be provided. However, any deviation of the installation, such as varying quantity of speakers, shall require a separate and unique riser for each deviation. Each riser required shall be provided with a unique title to make it easily identifiable when being referenced. Should such deviations exist, the plans indicating the location of each of the systems shall clearly indicate which riser is applicable to each individual occurrence of the system.
  3. A complete list of all equipment with Manufacturer, Model Number, Serial Number, and location of the equipment shall be compiled and turned over to the Owner representative prior to final acceptance of the project.
  4. Listing of all users serviceable parts, including, but not limited to, Manufacturer and Model number of part(s).
- E. This documentation shall be submitted to the Engineer in hard copy, bound in an organized and labeled fashion, as well as an electronic copy in pdf format.

## PART 2 - PRODUCTS

### 2.1 DESCRIPTION

- A. The components shall be as specified on the riser diagram.
- B. Basis of design shall be Aiphone IX video intercoms.

## PART 3 - EXECUTION

### 3.1 WORK COMPLETION

- A. The Contractor shall provide a complete and functioning system, based on the designs as set forth in these construction documents. Any and all equipment, either implied or intentionally omitted from these documents, but generally accepted as being required for the completion of the installation, as represented in these construction documents, shall be provided by the Contractor at no additional

cost to the Owner.

- B. The Contractor shall provide all necessary interconnecting cable and interface devices to provide the system interfacing as described herein.
- C. All products and system configurations will be fully tested and operational prior to final payment.
- D. The Contractor shall provide complete training on the system prior to final acceptance.
- E. System Commissioning, including testing and certifications, shall be prior to final payment. All system operation or installation deficiencies shall be documented and submitted to the Owner at time of commissioning and shall be resolved prior to final training and final payment.

### 3.2 TRAINING

- A. Provide a minimum of eight (8) hours training on the operation of the system.
- B. Provide two (2) digital video copies of all training.

### 3.3 WARRANTY

- A. Warranty of the system, including parts and labor, shall be by the system supplier and manufacturer for all materials and workmanship for a period of three (3) year, or for the duration of the manufacturer's documented warranty whichever is greater. Should for some unforeseeable reason, should the installer not be able to complete the term of the warranty, the manufacturer shall bear the complete responsibility of the warranty for both parts and labor, and shall appoint a certified service organization to complete the term of the warranty. The manufacturer shall inform the Owner of this appoint in writing.
- B. The warranty period shall begin after substantial completion of all work, including Technology Bid Package systems. At which time the installer shall provide service within a 24 hour period after notice by the Owner.

END OF SECTION 27 51 25

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