

## SECTION 28 15 23

### INTERCOM ENTRY SYSTEMS

#### PART 1 - GENERAL

##### 1.1 DESCRIPTION

- A. This specification section covers the furnishing and installation of local, audio-video door entry intercom 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 TECHNICAL REQUIREMENTS LOCAL INTERCOM SYSTEM

- A. Intercom system shall provide communications between the remote calling station and the Master intercom station(s). System shall be hands free at the remote station after initiation and the master station. System shall provide individual selection buttons for each remote station. System shall utilize video capability between remote and master locations.
- B. System Controller
  - 1. Shall be provided with interface software for programming of selected features
  - 2. Shall allow master station forwarding of calls when master station is unmanned
  - 3. Shall connect to the EACS system for door unlock feature
- C. Intercom master station(s)
  - 1. Shall receive calls from remote stations by selective indication of the calling location.
  - 2. Shall be provided with a door open feature that will allow the intercom master, while in communication with the remote station, unlock the door
  - 3. Shall be provided with video monitoring of the remote locations where remote locations are equipped with video cameras
  - 4. Shall automatically annunciate the calling station.

#### PART 2 - PRODUCTS

##### 2.1 GENERAL

- A. Product Acceptability: The Products section contains lists of acceptable products. If product substitutions are proposed, they must be made based upon a comparison of equivalence to the product specified and compatible with the existing Districts system. Considerations may include but shall not be limited to functional, physical, aesthetic and/or interface aspects. The Owner shall be the sole judge of whether or not a submitted substitution is deemed to be "equivalent" to that specified. Contractor may not use contractor proprietary interface modules for connections between field devices and controller.

## **2.2 INTERCOM SYSTEM**

- A. Video Intercom System: AXIS A8004-VE

## **2.3 WIRE AND CABLE**

- A. General: Cables which are not installed in conduit shall be a version of the specified cable rated for use in plenums.
- B. System cable: Provide cable as shown below, or as recommended by the Manufacturer.
  - 1. Intercom: Panduit CAT 6.
  - 2. Network Cable: As required by Owner Infrastructure.
- C. Cable installed below grade shall be rated for immersion in water.

## **PART 3 - EXECUTION**

### **3.1 ACCESS CONTROL SYSTEM INTEGRATION**

Integration to be completed by DPS.

### **3.2 SYSTEM PERFORMANCE TESTING AND ADJUSTING PROCEDURES**

- A. Provide performance testing and adjusting of systems and equipment in accordance with Testing and Commissioning, Section 28 08 00.
- B. Intercom System
  - 1. Verify Intercom calls master telephones.
  - 2. Verify Intercom Master telephones visual indicator activates when called.
  - 3. Verify voice communication with called station
  - 4. Verify door release function
    - a. Unlocks door
    - b. Verify VMS system is activated and event recorded.

## **PART 4.0 - EQUIPMENT SCHEDULE**

<b>28 51 23.50 - Educational Intercommunications (EI)</b>		
<b>DESCRIPTION</b>	<b>Manufacturer/Part Number</b>	
	<b>Aiphone</b>	<b>Special Rqmt</b>
8 DOOR AUDIO/VIDEO MASTER CONTROL	AX-8MV	
DESK MOUNT STAND FOR MASTER CONTROL	MCW-S/A	
VIDEO DOOR STATION, SURFACE MOUNT	AX-DV	Use when mounting next to door on same surface.
30 DEGREE ANGLE SURFACE BOX FOR AX-DV	SBX-AXDV30	
VIDEO DOOR STATION, FLUSH MOUNT	AX-DVF	Comes with mounting box.
MAIN CEU FOR 8 DOORS, 4 MASTERS, AX	AX-084C	
24 VDC POWER SUPPLY FOR CEU (2 REQUIRED)	PS-2420UL	
DOOR RELEASE RELAY, 24V DC INPUT	RY-24L	
DOOR STATION, AUDIO ONLY (REPLACES LEDA)	IE-SS	

<b>28 15 23 - Intercom Entry Systems</b>		
<b>DESCRIPTION</b>	<b>Manufacturer/Part Number</b>	
	<b>Axis</b>	<b>Special Rqmt</b>
VIDEO DOOR STATION, SURFACE MOUNT	Axis A8004-VE	Cisco CP-8845-KP phone provided by DPS
RELAY	A9801	

## **PART 5.0 - ONE LINE DRAWINGS**

- A. 28 15 23-1 Security Intercom Wiring Diagram

**END OF SECTION 28 15 23**