SECTION 13730
SECURITY ACCESS SYSTEM

PART 1 - GENERAL

1.1 DESCRIPTION

A. Central Station, software, and field-installed Controllers connected by a high-speed electronic data transmission network. Included are:
   1. Access Control:
      a. Regulating access through doors.
      b. Time and attendance.
      c. Credential cards and readers.
      d. Credential creation and credential holder database and management.

B. System Description:
   1. System shall consist of Card Readers and Controllers.

1.2 PERFORMANCE REQUIREMENTS

A. Manufactures specification and performance requirements for all products listed on drawings shall take the same force as if reproduced herein.

1.3 QUALITY ASSURANCE

A. Installer Qualifications: Must have on staff a registered communication distribution designer certified by Building Industry Consulting Service International.

B. Quality Standards: SIA DC-01 and SIA DC-03.

1.4 COORDINATION

A. Coordinate with work under separate divisions as required for connections to elevator controllers.

1.5 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of security access system that fail in materials or workmanship or from transient voltage surges within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Failure of software input/output to execute commands.
      b. Failure of modular relays to operate under manual or software commands.
      c. Damage of electronic components due to transient voltage surges.
   2. Warranty Period: Two years from date of Substantial Completion.

1.6 SOFTWARE SERVICE AGREEMENT

A. Technical Support: Beginning with Substantial Completion, provide software support for two years.

B. Upgrade Service: Update software to latest version at Project completion. Install and program software upgrades that become available within two years from date of Substantial

Completion. Upgrading software shall include operating system. Upgrade shall include new or revise licenses for use of the software.

1. Provide 30-day notice to Trustee to allow scheduling and access to system and to allow Trustee to upgrade computer equipment, if necessary.

PART 2 - PRODUCTS

2.1 EQUIPMENT AND MATERIAL, GENERAL

A. SECURTITY ACCESS SYSTEMS

1. Manufacturer: Majority of embedded systems on campus by DSX manufacturer. No other manufacturer will be accepted for controllers. Provide a complete system including all controllers, power supply, transformers, and intelligent peripheral control unit. Card readers, Visual status indications and user prompts and all peripherals required.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Wiring Method: In raceway and cable tray except within cabinets and in accessible ceiling spaces and gypsum board partitions.

B. Obtain the services of a factory-authorized technician to supervise the installation of the system. The technician shall provide all on-site software modifications and provide a written report to the Contractor attesting to the proper operations of the completed system.

3.2 SOFTWARE INSTALLATION

A. Install and program software with initial settings of adjustable values. Make backup copies of software and user-supplied values. Provide current licenses for software.

3.3 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust field-assembled components and equipment installation, including connections, and assist in field testing. Report results in writing.

3.4 STARTUP SERVICE

A. Owner's operators, management, and security personnel enrolled and badges and access cards prepared.

3.5 TESTING

A. Test controller to verify proper operation.

B. Test card readers by swiping both a valid and invalid card.

C. Test and measure door contact switch. Measure and verify resistance of door monitor contact switch to be less than 100 Ohms when door is closed. See manufacturer instructions for additional testing requirements.

3.6 DEMONSTRATION

A. Engage a factory-authorized service representative to train Trustee's maintenance personnel to adjust, operate, and maintain lighting controls and software training for PC-based control systems. Refer to Division 1 Section "Demonstration and Training."

END OF SECTION