



SECTION 16720

TELEPHONE ENTRY SYSTEMS

Elite Icon26 & Icon26 HT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Telephone entry systems by Chamberlain, including the following:
 - 1. Telephone entry control devices.
 - 2. Application software.

1.2 RELATED SECTIONS

- A. Section 13700 - Access Control Systems.
- B. Section 16050 - Basic Electrical Materials and Methods.

1.3 REFERENCES

- A. NFPA 70 - National Electrical Code.
- B. FCC Regulations - Part 68.
- C. Canadian Department of Communications.

1.4 REGULATORY REQUIREMENTS

- A. System shall be UL-Listed.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Manufacturer's Data: Submit copies of the following:
 - 1. Product Data Sheets.
 - 2. Installation Instructions.
 - 3. Authorized Dealer Certificate and Certified Training Certificates of installers who will be working on this project.
- C. Shop Drawings: Submit the following:
 - 1. Access system layout and locations, including size requirements.
 - 2. Detailed wiring diagrams of access equipment.
 - 3. Load calculations of all equipment for proper sizing of electrical provided by the customer and standby emergency generator circuits.
- D. As-Built Drawings: Update Shop Drawings to create final As-Built Drawings. Submit 3 copies and digitally in AutoCAD 14 or later format on a CD (3 copies).
- E. Operation Data: Include three (3) copies of the software Administrator and Operator Manuals.

- F. Maintenance Data: Include maintenance and repair procedures.

1.6 QUALITY ASSURANCE

- A. Manufacturer: The telephone entry control system shall be from a single-source manufacturer that specializes in telephone entry control systems with a minimum of 5 years experience.
- B. Installer: Company specializing in telephone entry control systems with a minimum of three years experience on systems of similar size and scope. Technicians working on project must have been certified on the hardware and software used for this project.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Owner will provide, on-site, a secure, dry, locked storage area for all equipment delivered under this scope of work.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.8 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.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: The Chamberlain Group, Inc., which is located at: 845 Larch Ave. ; Elmhurst, IL 60126; Toll Free Tel: 800-282-6225; Fax: 630-993-6024; Email: [request info](#); Web: www.chamberlain.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 TELEPHONE ENTRY SYSTEMS

- A. Multi-Tenant Telephone Entry/Access Control System:
 - 1. Acceptable Product: Chamberlain Elite Icon26.
 - 2. Acceptable Product: Chamberlain Elite Icon26 HT.
 - 3. Memory Chip Capacity: 250 names.
 - 4. Memory Chip Capacity: 500 names.
 - 5. Memory Chip Capacity: 1000 names.
 - 6. Standard Features:
 - a. Programming: Central processor is removed from enclosure for programming.
 - b. Readers: Two memory card slots and one card data backup slot.
 - c. Readers: Two memory card slots and one Remote Communicator Card slot.
 - d. Keycode Access: Maximum 6-digit residential access codes.

- e. Resident Dialing: Maximum 3 digits codes to connect to residential units.
 - f. Speaker: System mutes speaker during dialing for security.
 - g. Unlisted Resident: Programmable unlisted resident feature.
 - h. Access: Resident controlled access by dialing "5" for door or "9" for gate.
 - i. Tone/Pulse Dialing: System can be site configured to DTMF or rotary output from the tenant's phone.
 - j. Programmable Talk Time: Visitor/tenant talk time extended 5 seconds when resident grants access.
 - k. Programmable Relay Times: Two independent 7-day timers per relay output for door and gate control.
 - l. Voice Guided Assistance: Provides user with voice assistance with system features including keycodes and dialing procedures.
 - m. Non-Volatile Memory: In event of power failure, database information is retained in memory allowing immediate start-up and operation when power is restored.
 - n. Utility Keycodes: 60 programmable 4-digit memory utility keycodes per system; independent time zones and day of week restrictions per utility code; independent expiration date per code; one time use utility flash code.
 - o. Transaction Monitoring: Maximum of 8,000 transactions (date, time, unit ID and transaction) stored in unit are retrievable for record of on-site activities.
 - p. Battery backed clock/calendar including daylight savings and leap years.
 - q. Postal Lock Ready: Postal Lock Kit integrates with US Postal Service Lock (acquired from US Postal Service) to allow postal carriers access to controlled area.
 - r. Lightning Protection: Installer shall provide external surge suppressors in addition to surge protection inherent in the entry system.
7. Optional Features: Provide the following:
- a. Programming:
 - 1) Acceptable Product: ElitePro Software.
 - 2) Levels of Access: 31.
 - 3) Individual zones controlled via predetermined time schedule.
 - 4) Remote programming via modem.
 - 5) Control devices programmable for tenant or maintenance personnel only.
 - b. Communicator Card:
 - 1) Acceptable Product: RS485 Remote Communicator Card.
 - 2) Remote Access Devices: 32.
 - 3) Programmable Groups: 32.
 - 4) 7-Day Timer Templates: 32.
 - c. Remote Communicator Link:
 - 1) Acceptable Product: RS485 Communicator Link.
 - 2) Additional Devices: 31.
 - d. Remote Access Devices: Provide the following remote access devices.
 - 1) DT 418 transmitter; 418 Mhz; 16 million available codes; remote programming; single transmitter programming or block coding; remote deactivations and expiration dates/times.
 - 2) ERRB-485 Remote Elite Radio Receiver.
 - 3) ERRO-485 Icon 26 internal installation device.
 - 4) EKP-485 Elite Keypad with stainless steel keys.
 - 5) ECR-485W Remote Access Card Reader for posts or heavy door frames.

- 6) ECR-485T Remote Access Card Reader for standard door frames.
- 7) RFID Electronic Key Cards with read range from 4 to 6 inches (102 to 152 mm).
- 8) EA-485 Remote Access Translator Board for interface with 26-bit Wiegand controls.
- e. Camera: Integrate camera into system to provide live video directly to television or monitor screen.
 - 1) Color CCTV camera with 10 bit DSP; 330 line high resolution output; 5 lux minimal illumination.
8. Dimensions: 20 1/2 inches (521 mm) high by 16 inches (406 mm) wide by 4 3/8 inches (111 mm) deep.
9. Electrical Specifications:
 - a. Power Output: 12 VAC, 40VA UL Listed wall plug transformer.
 - b. Output Relays: Two output relays with independent strike times.
 - c. VCR Lapse Time: Relay output for 5-second VCR time lapse recording per authorized access.
 - d. Surge Protection:
 - 1) Powerline Surge Protection: 5000V.
 - 2) Phonenumber Surge Protection: 800V.
 - 3) ESD: Up to 25,000V surge protection.
 - e. Power Backup: System battery provides full functionality for up to five hours. System includes non-volatile memory and non-volatile clock.
 - f. Operating Environment:
 - 1) Icon26: Minus 4 to 135 degrees F; RH 5 to 95 percent.
 - 2) Icon26 HT: Minus 4 to 165 degrees F; RH 5 to 95 percent.
10. Standard Enclosure: Rain-resistant, double box enclosure with built-in keyboard.
 - a. Front Panel: 16 gauge stainless steel.
 - b. Display: High resolution 10 inch (254 mm) liquid crystal display; sunlight readable; backlit for low light applications; keypad lighting; 26 name viewing in scrollable directory.
11. Enclosure: IconTower1, freestanding mount for automobiles.
12. Enclosure: IconTower2, freestanding mount for pedestrians.
13. Warranty: Three years.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 INSTALLATION

- A. Install system in accordance with manufacturer's instructions.
- B. Install wiring for detection and signal circuit conductors in conduit. Use 22 AWG minimum size conductors.
- C. Make conduit and wiring connections to existing door hardware devices as required.

3.3 PROTECTION

- A. Protect installed products until completion of project.

B. Repair or replace damaged products before Substantial Completion.

END OF SECTION