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**SECTION 28 10 00 – ACCESS CONTROL**

 GENERAL

 ADMINISTRATIVE REQUIREMENTS

 Pre-Installation Conference:

 Attendance: [Architect,] [Owner,] [Contractor,] [Construction Manager,] installer, and related trades.

 Review: Project conditions, manufacturer requirements, delivery and storage, staging and sequencing, and protection of completed work.

 SUBMITTALS

 Action Submittals:

 Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.

 Product Data: Manufacturer’s descriptive data and product attributes for metal panels and underlayment.

 Samples: [Selection samples.] [Verification samples.]

 Informational Submittals:

 Certificate of Compliance: Certification that installed products meet specified design and performance requirements.

 Closeout Submittals:

 Operation and Maintenance Data.

 QUALITY ASSURANCE

 [Fabricator] [Installer] Qualifications: Minimum [2] [\_\_] years’ experience in work of this Section.

 WARRANTY

 Manufacturer’s 2 year warranty for telephone entry/access and perimeter control system.

 PRODUCTS

 MANUFACTURERS

 Contract Documents are based on products by LiftMaster. [www.liftmaster.com](http://www.liftmaster.com)

 Substitutions: [Refer to Division 01.] [Not permitted.]

 COMPONENTS – ACCESS CONTROL SYSTEM

 Single Entry Access Keypad and Proximity Reader:

 Model: KPR2000 Single Entry Access Control Keypad and Proximity Reader.

 Proximity Card Reader: HID 26-bit and 30-bit Wiegand format.

 Control access for up to 2000 users.

 Accessories:

* + - * 1. Low-profile access pedestal.
				2. High-profile access pedestal.
				3. Trim plate kit.
				4. Power supply; 12 VDC.
				5. Passport receiver.
				6. Passport remote control: Passport [Lite 1-button transmitter.] [Lite 1-button keychain transmitter.] [Lite 1-button keychain with prox coil.] [MAX 3-button visor transmitter.] [MAX 3-button keychain transmitter.] [MAX 3-button keychain with prox coil.]
				7. HID 26-bit proximity cards: Quantity [\_\_].
				8. HID 26-bit key fobs: Quantity [\_\_].

\*\*\*\* OR \*\*\*\*

 Wireless Keypad Controls:

 Model: KPW5 Wireless Access Control Keypad.

 Maximum 5 access codes and 10 unique temporary PINs, programmable for 1 to 9 users.

 Utilize Security+ 2.0 technology.

 Accessories:

* + - * 1. Low-profile access pedestal.
				2. High-profile access pedestal.
				3. Universal receiver.

\*\*\*\* OR \*\*\*\*

 Wireless Commercial Keypad:

 Model: KPW250 Wireless Access Control Keypad.

 Maximum 250 access codes and 10 unique temporary PINs, programmable for 1 to 9 users.

 Utilize Security+ 2.0, Security+.

 Accessories:

* + - * 1. Low-profile access pedestal.
				2. High-profile access pedestal.
				3. Universal receiver.

\*\*\*\* OR \*\*\*\*

 Wireless Receiver for Gate and Commercial Door Operators:

 Model: STAR1000 Commercial Access Control Receiver.

 Utilize Security+ 2.0 technology.

 Compatible with HomeLink wireless control system.

 Remote capacity: 1000.

 Passport remote control: Passport [Lite 1-button transmitter.] [Lite 1-button keychain transmitter.] [Lite 1-button keychain with prox coil.] [MAX 3-button visor transmitter.] [MAX 3-button keychain transmitter.] [MAX 3-button keychain with prox coil.]

 Security+ 2.0 remote controls: LiftMaster [2-button] [4-button] learning remote control.

 Accessories:

* + - * 1. AC transmitter.
				2. Remote antennae extension kit.

\*\*\*\* OR \*\*\*\*

 Commercial Receiver and Remote Access Control:

 Model: Passport Credential Radio Control Receiver.

 Receiver: Passport Receiver with Security+ 2.0.

* + - * 1. Security+ 2.0 Technology Tri-Band 310, 315, and 390 MHz.
				2. Compatible with HomeLink wireless control system.
				3. Support standard 26-bit, 31-bit, 34-bit even and odd, 50-bit and Sentex 30-bit proximity card formats.
				4. Remote capacity: 12,000.

 Passport remote control: Passport [Lite 1-button transmitter.] [Lite 1-button keychain transmitter.] [Lite 1-button keychain with prox coil.] [MAX 3-button visor transmitter.] [MAX 3-button keychain transmitter.] [MAX 3-button keychain with prox coil.]

 Accessories:

* + - * 1. AC transmitter.
				2. Remote antennae extension kit.

\*\*\*\* OR \*\*\*\*

 Long Range Radio Frequency Identification (RFID) and Vehicle Tag Readers:

 Model: LMSC 1000.

 Tags: [Dual purposed RFID for windshield or headlight.] [Rearview mirror RFID hanging tag.]

 Listed by UL.

 FCC and Industry Canada compliant.

 TELEPHONE ENTRY CONTROL SYSTEM

 Single Tenant Entry Telephone Access System:

 Model: EL1SS Single Line Telephone Intercom Access Control System.

 Listed by UL.

 Provide duplex communications and intercom function.

 Memory chip capacity: 200 4-digit codes.

 Accessories:

* + - * 1. [42] [64] inch high mounting pedestal.

\*\*\*\* OR \*\*\*\*

 Commercial and Gated Community Cloud Based Access Control/Telephone Entry System:

 Model: CAPXLV Smart Video Intercom.

 Local user capacity: 50,000.

 Touch screen operation with USB integrated video camera.

 Four primary relays and four auxiliary relays.

 Compatible with MyQ Community.

 Transmitters: [1-button] [3-button] credentialled; [visor.] [keychain.] [keychain with RFID.]

 Internet connection: [High-speed CAT 5/6 IEEE 802.] [Wi-Fi IEEE 802]

 Mounting: [42] [64] inch high pedestal.

* + - 1. Accessories:
				1. Mounting: [42], [64] inch high pedestal.
				2. CAP2D smart access two door controller.
				3. Back box and trim kit for flush mounting.
				4. Trim ring for back box and trim kit.
				5. Mini mullion reader.
				6. External keypad.
				7. Radio antenna extension kit.
				8. Wi-Fi antenna extension kit.
				9. Quick call input loop kit.
				10. Passport remote controls: Passport [Lite 1-button visor transmitter.] [Lite 1-button keychain transmitter.] [Lite 1-button keychain with prox coil.] [MAX 3 button visor transmitter.] [MAX 3 button keychain transmitter.] [MAX 3 button keychain with prox coil.]
				11. User application: myQ Community.

\*\*\*\* OR \*\*\*\*

 Commercial and Multi-Dwelling Unit Cloud Based Access Control/Telephone Entry System:

 Model: CAPXM Smart Video Intercom -M.

 Local user capacity: 50,000.

 Touch screen operation with USB integrated video camera.

* + - 1. Two primary relays and two auxiliary relays

 Compatible with myQ Community.

 Internet connection: [High-speed CAT 5/6 IEEE 802.] [Wi-Fi IEEE 802.].

 Accessories:

* + - * 1. Mounting: [42] [64] inch high pedestal.
				2. CAP2D smart access two door controller.
				3. Back box and trim kit for flush mounting.
				4. Trim ring for back box and trim kit.
				5. Mini mullion reader.
				6. External keypad.
				7. Radio antenna extension kit.
				8. Wi-Fi antenna extension kit.
				9. Passport remote controls: Passport [Lite 1-button visor transmitter.] [Lite 1-button keychain transmitter.] [Lite 1-button keychain with prox coil.] [MAX 3 button visor transmitter.] [MAX 3 button keychain transmitter.] [MAX 3 button keychain with prox coil.]
				10. User application: myQ Community.

\*\*\*\* OR \*\*\*\*

 Commercial and Multi-Dwelling Unit Cloud Based Access Control/Telephone Entry System:

 Model: CAPXS Smart Video Intercom - S

 Local user capacity: 3,000.

 Touch screen operation with USB integrated video camera.

* + - 1. One primary relay and auxiliary relays

 Compatible with MyQ Community.

 Internet connection: [High-speed CAT 5/6 IEEE 802.] [Wi-Fi IEEE 802.]

 Accessories:

* + - * 1. CAP2D smart access two door controller.
				2. Trim plate for retrofit mounting.
				3. Trim plate with a postal lock provision for retrofit mounting.
				4. Sun protective hood.
				5. User application: myQ Community.

 EXECUTION

 INSTALLATION

 Install in accordance with manufacturer’s instructions and approved Shop Drawings.

 CLOSEOUT ACTIVITIES

 Demonstration: Demonstrate system operation to Owner.

 MAINTENANCE

 Maintenance Service: Furnish service and maintenance of access control systems for period of 3 months after date of Substantial Completion.

 END OF SECTION