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**SECTION 32 31 11 – GATE OPERATORS**

 GENERAL

 SUBMITTALS

 Action Submittals:

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

 Product Data: Manufacturer’s descriptive data and product attributes.

 Closeout Submittals:

 Operation and Maintenance Data.

 QUALITY ASSURANCE

 Installer Qualifications: Firm specializing in work of this Section, with minimum [2] [\_\_] years’ experience.

 WARRANTY

 Manufacturer’s [2] [5] [7] year warranty against material and manufacturing defects.

 PRODUCTS

 MANUFACTURERS

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

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

 MANUFACTURED UNITS

 Slide Gate Operators:

 Model: HDSL24UL.

 Operation: Gear driven.

 Rated duty cycle: Continuous duty.

 Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.

 Power: 120/240 VAC, single phase.

 Motor: 24 VDC, continuous duty type, sized to gate conditions.

 Battery backup: [7Ah.] [33Ah.]

 Monitoring and controls:

* + - * 1. Internet connectivity: MyQ technology with 50 channel FHSS.
				2. Radio receiver: Security+ 2.0 technology.
				3. Monitored retro-reflective photo eyes.
				4. Monitored small profile wired safety edge.

 Accessories:

* + - * 1. Monitored safety devices: [Thru-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.]
				2. Wired monitored edges: [Small profile edge.] [Large profile edge.]
				3. Plug-in loop detector.
				4. Wireless commercial keypad.
				5. Control station: [Three push button type] [Three position key operated type] in NEMA [1] [4] [4X] [7/9] enclosure.
				6. Remote controls: [One button DIP.] [Three button DIP.] [Two button rolling code Security+ 2.0.] [Four button rolling code Security+ 2.0.]
				7. Internet gateway.
				8. Smart video intercom.
				9. Commercial access control receiver.
				10. Maglock.
				11. Heater kit.

 EXECUTION

 INSTALLATION

 Install in accordance with manufacturer’s instructions.

 CLOSEOUT ACTIVITIES

 Test and adjust operators for proper operation.

 Demonstration: Demonstrate operation and programming of operators to Owner.

END OF SECTION