

# Architectural Specifications for LiftMaster Elite SL3000-UL

(For Inclusion within Section 02829 Gate Operators)

## Part 1 – General

### 1.1 Section Includes

- A. Slide Gate Operators and Accessories
- B. Access Controls

### 1.2 Related Sections

- A. Section 02820 – Fences and Gates
- B. Section 03300 – Cast-In Place Concrete – Concrete Mounting Pad
- C. Section 11150 - Parking Control Equipment
- D. Section 11150 - Parking Control Equipment
- E. Section 16131 – Conduits
- F. Section 16155 - Equipment Wiring

### 1.3 References

- A. UL325 – Standard for Safety for Door, Drapery, Gate, Louver, and Window Operators and Systems
- B. UL991 – Standard for Safety – Tests for Safety-Related Controls Employing Solid-State Devices

### 1.4 Submittals

- A. Submit under provisions of Section 01300
- B. Product Data: Equipment list, system description, block diagrams on equipment to be finished, electrical wiring diagrams for installation, and manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations
  - 2. Storage and handling requirements and recommendations
  - 3. Installation methods

### 1.5 Quality Assurance

- A. Provide documentation of maintenance and repair service availability for emergency conditions
  - 1. Installer Qualifications: Factory authorized contractor specifically trained in gate operation systems of the type found within this section

### 1.6 Warranty

- A. Warranty: Manufacturers standard warranty of five years for commercial installation

## Part 2 – Products

### 2.1 Manufacturer

- A. Acceptable Manufacturer: Chamberlain/Elite, 845 Larch Avenue, Elmhurst, Illinois 60126. Telephone: (800) 282-6225
- B. Substitutions: Not permitted
- C. Requests for substitutions will be considered in accordance with the provisions of Section 01600

### 2.2 Slide Gate Operator

- 1. Chamberlain Elite SL-3000-UL that provides continuous cycle operation for gates up to 1000 lbs. and 37 ft. in length with a traveling speed of up to 12" per second
  - a. UL Classification: (Note to Specifier: Select one)
    - 1) Conforms to Class I, when tested in accordance with UL325
    - 2) Conforms to Class II, when tested in accordance with UL325
    - 3) Conforms to Class III, when tested in accordance with UL325
    - 4) Conforms to Class IV, when tested in accordance with UL325

- b. Motor: ½ HP Continuous Duty 120VAC continuous duty motor
- c. Control circuit: OmniControl solid-state control board; low-voltage control inputs to provide for connection of a full range of optional external devices including loop detectors, access control systems, and radio receivers
  - 1) An adjustable timer (0-60 seconds) shall be integral to the control board to permit automatic gate closing; timer deactivation shall also be available to permit push open/close gate operation
  - 2) The board shall provide inputs for exit loop, center loop, and safety loop detectors
- d. Additional required controls:
  - 1) Inherent obstruction sensing allowing a closing gate to reopen when coming in contact with an obstruction and an opening gate to stop/reverse/stop when encountering an obstruction
  - 2) Soft stop capabilities providing a more accurate gate cycle
- e. Mounting: Left- or right-hand mounting capabilities to provide flexibility in determining orientation of operator either prior to or during installation

## **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 Preparation**

- A. Clean surfaces thoroughly prior to installation
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions

### **3.3 Installation**

- A. Install in accordance with manufacturer's specifications
- B. Mount directly to concrete pad, firmly secured, plumb, and level
- C. Mount to mounting pedestal; provide base plate
- D. Wire in accordance with National Electric Code
- E. Enclose all splices in easily accessible junction boxes or on terminal boards
- F. Tag and identify all cable runs in all junction boxes
- G. Test system and adjust to assure components and accessories are properly connected and in working order

### **3.4 Preparation**

- A. Protect installed products until completion of project
- B. Touch-up, repair, or replace damaged products before completion

### **3.5 Maintenance**

- A. Provide Owner with two copies of operation, installation, and maintenance manuals including wiring diagrams
- B. Provide owner with two copies of risers, layouts, and special wiring diagrams showing any changes to standard drawings
- C. Maintain at three-month intervals, checking external reversing devices once per month