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This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

 Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select of deselect HIDDEN TEXT.

This guide specification covers LiftMaster’s parking control gates.

The following should be noted in using this specification:

Hypertext links to manufacturer websites are included after manufacturer names to assist in product selection and further research. Hypertext links are shown in blue text, e.g.:

www.acme.com

Optional text requiring a selection by the user is enclosed within brackets and shown in red text, e.g.: Color: [Red.] [Black.]"

Items requiring user input are enclosed within brackets and shown in red text, e.g.: "Section [\_\_ \_\_ \_\_ - \_\_\_\_\_\_\_\_]."

Optional paragraphs are separated by an "OR" statement shown in red text, e.g.:

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

For assistance on the use of the products in this section, contact LiftMaster by calling 800-528-5880 or visit their website at www.LiftMaster.com or visit https://www.liftmaster.com/gate-operators/c/barrier-gate-operators to assist you in editing the below text.

This specification has been prepared based on SimpleSpecs™ specification templates. The SimpleSpecs™ Master Guide Specification system comprises a full architectural master specification that can be used to specify all project requirements. For additional information on SimpleSpecs™ products visit the ZeroDocs.com website at www.zerodocs.com.

**SECTION 11 12 33 – PARKING GATES**

 GENERAL

 SUBMITTALS

 Action Submittals:

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

 Closeout Submittals:

 Operation and Maintenance Data.

 QUALITY ASSURANCE

 Manufacturer Qualifications: Meet specified requirements, and technical documentation.

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

 WARRANTY

 Manufacturer’s warranties against material and manufacturing defects:

* + - 1. Cabinet: 10 years.
			2. Electrical and mechanical components: 2 years.

 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

Retain the following for a DC-powered barrier gate with polyethylene cabinet, for high-traffic applications.

 Parking Gates:

 Model: MAT.

 Operation: Gear reduced.

 Meet UL 325.

 Rated duty cycle: Maximum 6000 per day.

 Opening speed: 2.5 seconds.

 Battery backup: Maximum 900 cycles.

 Motor: 24 VDC, continuous duty, prewired, listed by Underwriters Laboratories.

 Controls: Sequenced access management system.

Following accessories are available as options. Refer to LiftMaster technical literature for assistance in selecting accessories.

 [Red/white stripe 10 foot aluminum articulating arm.] [Red/white 12 foot aluminum LED arm.] [Red/white stripe aluminum 15 foot arm.] [Red/white aluminum 17 foot LED arm.] [Red/white stripe 17 foot aluminum arm.] [Red/white stripe 9 foot PVC articulating arm.]

* + - 1. Retro reflective photo eye,
			2. Red/green traffic light.
			3. Low power loop detector.
			4. Commercial access control receiver.
			5. High-capacity connected access portal.
			6. Two door connected access portal.

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

Retain the following for a DC-powered, high-speed barrier gate for high-traffic applications.

 Parking Gates:

 Model: MAS.

 Operation: Gear reduced.

 Meet UL 325.

 Rated duty cycle: Maximum 10,000 per day.

 Opening speed: 0.9 seconds.

 Battery backup: Maximum 900 cycles.

 Motor: 24 VDC, continuous duty, prewired, listed by Underwriters Laboratories.

 Controls: Sequenced access management system.

 Cabinet: Polyethylene.

Following accessories are available as options. Refer to LiftMaster technical literature for assistance in selecting accessories.

 Aluminum 8 foot arm with yellow padding.

 Clutch.

 Retro-reflective photo eye.

 [One button DIP remote control.] [Three button DIP remote control.] [Two button rolling code Security+ 2.0 remote control.] [Four button rolling code Security+ 2.0 remote control.]

* + - 1. Red/green traffic light.
			2. Low power loop detector.
			3. Commercial access control receiver.
			4. Heater.
			5. Timer-to-close module.
			6. High-capacity connected access portal.
			7. Two door connected access portal.

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

Retain the following for a DC-powered barrier gate with 24 foot wishbone barrier arm for high-traffic applications.

 Parking Gates:

 Model: BG790.

 Operation: Gear reduced.

 Meet UL 325.

 Rated duty cycle: Maximum 6000 per day.

 Opening speed: 11 seconds.

 Barrier arm: Wishbone type, red and white, 24 feet long, counterweighted.

 Motor: 24 VDC, continuous duty, prewired, listed by Underwriters Laboratories.

 Controls: Sequenced access management system.

Following accessories are available as options. Refer to LiftMaster technical literature for assistance in selecting accessories.

* + - 1. Retro reflective photo eye,
			2. Commercial access control receiver.
			3. Learning remote control.
			4. Low power loop detector.
			5. Primary/secondary configuration.
			6. Time-to-close.
			7. Heater.

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

Retain the following for a DC-powered barrier gate for high-traffic applications.

 Parking Gates:

 Model: MA.

 Operation: Gear reduced.

 Meet UL 325.

 Rated duty cycle: Maximum 6000 per day.

 Opening speed: 2.5 seconds.

 Battery backup: Maximum 900 cycles.

 Barrier arm: Aluminum, LED type.

 Motor: 24 VDC, continuous duty, prewired, listed by Underwriters Laboratories.

 Controls: Sequenced access management system.

Following accessories are available as options. Refer to LiftMaster technical literature for assistance in selecting accessories.

* + - 1. [Red/white stripe 10 foot aluminum articulating arm.] [Red/white 12 foot aluminum LED arm.] [Red/white stripe aluminum 15 foot arm.] [Red/white aluminum 17 foot LED arm.] [Red/white stripe 17 foot aluminum arm.] [Red/white stripe 9 foot PVC articulating arm.]
			2. Clutch.
			3. Retro reflective photo eye.

 [One button DIP remote control.] [Three button DIP remote control.] [Two button rolling code Security+ 2.0 remote control.] [Four button rolling code Security+ 2.0 remote control.]

* + - 1. Red/green traffic light.
			2. Low power loop detector.
			3. Commercial access control receiver.
			4. High-capacity connected access portal.
			5. Two door connected access portal.

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

Retain the following for a DC-powered, high-speed barrier gate with aluminum cabinet, for high-traffic applications.

 Parking Gates:

 Model: MAST.

 Operation: Gear reduced.

 Meet UL 325.

 Rated duty cycle: Maximum 10,000 per day.

 Opening speed: 0.9 seconds.

 Battery backup: Maximum 900 cycles.

 Motor: 24 VDC, continuous duty, prewired, listed by Underwriters Laboratories.

 Controls: Sequenced access management system.

 Cabinet: Aluminum.

Following accessories are available as options. Refer to LiftMaster technical literature for assistance in selecting accessories.

 Aluminum 8 foot arm with yellow padding.

 Clutch.

 Retro-reflective phot eye.

 [One button DIP remote control.] [Three button DIP remote control.] [Two button rolling code Security+ 2.0 remote control.] [Four button rolling code Security+ 2.0 remote control.]

* + - 1. Red/green traffic light.
			2. Low power loop detector.
			3. Commercial access control receiver.
			4. Heater.
			5. Timer-to-close module.
			6. High-capacity connected access portal.
			7. Two door connected access portal.

 EXECUTION

 INSTALLATION

 Install in accordance with manufacturer’s instructions.

 CLOSEOUT ACTIVITIES

* + 1. Test and adjust operators for proper operation.

 Demonstration: Demonstrate operation and programming of operators to Owner.

END OF SECTION