



SECTION 14450

VEHICLE LIFTS

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Vehicle lifts including safety equipment, controls and accessories.

1.2 RELATED SECTIONS

- A. Section 15050 - Basic Mechanical Materials and Methods: Hydraulic lines, fittings, and related accessories.
B. Section 16050 - Basic Electrical Materials and Methods: Service, circuiting, wiring, and connections for power and controls.

1.3 REFERENCES

- A. ALI: Automotive Lift Institute.
B. ANSI/ALI ALCTV: Safety Requirements for the Construction, Testing, and Validation of Automotive Lifts.
C. International Standards Organization (ISO): ISO 9001 Quality management systems - Requirements.
D. Underwriters Laboratories Inc. (UL): UL201 - These requirements cover garage equipment, rated not more than 600 volts, for use in accordance with the National Electrical Code, NFPA 70.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
B. Product Data: 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 manual.
4. Operations manual.
5. Maintenance manual.
6. Safety manual.
C. Shop Drawings: Template drawings and load reactions for lift application.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications:
1. Factory trained authorized company.
2. Company insured for completed operations of installing lift.
B. In addition to the other requirements outlined herein, the lift or lifts, shall comply with all applicable requirements of ANSI standards, "Safety Requirements for the Construction, Care and Use of Automotive Lifts" as published by the American national Standards Institute. The lift company Quality Management System shall be ISO9001 certified.

1.6 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.

1.7 WARRANTY

- A. Contractor/manufacturer/installer has responsibility for an extended Corrective Period for work of this Section for the period stated from date of Substantial Completion against deficiencies as stated in the manufacturer's standard warranty.
B. Contractor/manufacturer/installer shall promptly and without inconvenience and cost to Owner correct said deficiencies:
1. Failure due to defective materials and workmanship.
C. Contractor/manufacturer/installer shall be notified immediately of defective products, and be given a reasonable opportunity to inspect the goods prior to return. Manufacturer will not assume responsibility, or compensation, for unauthorized repairs or labor.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Rotary Lift, which is located at: 2700 Lanier Dr. ; Madison, IN 47250; Toll Free Tel: 800-640-5438; Tel: 812-273-1622; Fax: 800-578-5438; Email: info@rotarylif.com; Web: www.rotarylif.com
B. Substitutions: Not permitted.

2.2 10,000 LB. CAPACITY ASYMMETRIC TWO POST SURFACE MOUNTED FRAME CONTACT LIFTS SPOA10 / A10I SERIES

- A. Capacity: 10,000 lbs (4536 kg); 2500 lbs (1134 kg) per adapter.
B. Minimum Bay Requirements:
1. Floor space 12 feet x 24 feet (3658mm - 7315 mm).
2. Floor slab concrete 3000 psi - 4-1/4 inch (108 mm) minimum; 5 inch - 6 inch (127 mm - 152 mm).
C. Ceiling Height Requirements:
1. Standard Model: 12 feet (3658 mm).
D. Height to Top of Overhead Bar:
1. Standard Model: 11 feet 8 inches (3556 mm).
E. Floor To Overhead Switch Bar:

1 SPOA10 2 POST LIFT SPECIFICATIONS

SCALE: NTS

- 1. Standard Model: 11 feet 2 inches (3404 mm).
F. Width Inside Columns: 107-1/2 inch (2727 mm).
G. Overall Width: 11 feet-5-1/2 inch (3493 mm).
H. Drive Through Clearance At Tires: 95 inches (2413 mm).
I. Rise:
1. Standard Model 3-Stage Arm: 73-7/8 inches (1876 mm) from floor level to top of adapter fully extended.
J. Finishes (Excluding Arms) - All Arms Are Yellow:
1. Blue, Standard RAL5005.
K. SPOA10 Series Single Point Manual Controls - Manual Lock Release Electric Power Unit, UL201 Compliant, Over Hydraulic Cylinder Drive: All models bio-fluid compatible.
1. ShockWave 120VAC, 3.15 Amp Service, 24V battery operated DC motor
L. Arm Configurations:
1. 3-Stage Arms With RA Adapters:
a. Front Arm: Minimum Reach 21-5/8 inches (550 mm) - Maximum Reach 43-1/2 inches (1106 mm) Minimum Adapter Height 3-5/8 inches (92 mm) - Maximum Adapter Height 5-7/8 inches (149 mm) from floor.
b. Rear Arm: Minimum Reach 34-1/2 inches (878 mm) - Maximum Reach 58 inches (1474 mm) Minimum Adapter Height 3-5/8 inches (92 mm) - Maximum Adapter Height 5-7/8 inches (149 mm) from floor.
M. Lift shall be 3rd party certified by ETL testing laboratory and labeled with the ETL/Automotive Lift Institute (ALI) label that affirms the lifts meet conformance to all applicable provisions of American National Standard ANSI/ALI ALCTV-2006 and in compliance with IBC 2003, IBC 2006 chapter 30 section 3001.2.

PART 3 EXECUTION

3.1 EXAMINATION

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

3.2 INSTALLATION

- A. Install in accordance with manufacturer instructions.

3.3 PROTECTION

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

END OF SECTION



SECTION 14450

VEHICLE LIFTS

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Light Duty Vehicle Lifts including safety equipment, controls and accessories of the following types:
1. 12,000 lb. capacity symmetric two post surface mounted frame contact lifts SPD12 series.

1.2 RELATED SECTIONS

- A. Section 14050 - Vehicle Lifts.
B. Section 23 05 00 - Common Work Results for HVAC.
C. Section 26 05 00 - Common Work Results for Electrical.

1.3 REFERENCES

- A. ALI: Automotive Lift Institute.
B. ANSI/ALI ALCTV: Safety Requirements for the Construction, Testing, and Validation of Automotive Lifts.
C. International Standards Organization (ISO): ISO 9001 Quality management systems - Requirements.
D. Underwriters Laboratories Inc. (UL): UL201 - These requirements cover garage equipment, rated not more than 600 volts, for use in accordance with the National Electrical Code, NFP 70.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
B. Product Data: 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 manual.
4. Operations manual.
5. Maintenance manual.
6. Safety manual.
C. Shop Drawings: Template drawings and load reactions for lift application.
D. BIM Models: Manufacturer's Building Information Model for lifts.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Factory trained authorized company, company insured for completed operations of installing lift.
B. In addition to the other requirements outlined herein, the lift or lifts, shall comply with all applicable requirements of ANSI standards, "Safety Requirements for the Construction, Care and Use of Automotive Lifts" as published by the American national Standards Institute. The lift company Quality Management System shall be ISO9001 certified.
C. Lift and all components shall be new. Used or refurbished lift and components not acceptable.

1.6 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 recommended limits.

1.7 WARRANTY

- A. Manufacturer's Warranty: Provide manufacturer's standard warranty for failures due to defective materials and workmanship. Manufacturer will not assume responsibility, or compensation, for unauthorized repairs or labor.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Rotary Lift, which is located at: 2700 Lanier Dr., Madison, IN 47250; Toll Free Tel: 800-640-5438; Tel: 812-273-1622; Fax: 800-578-5438; Email: info@rotarylif.com; Web: www.rotarylif.com
B. Substitutions: Not permitted.

2.2 LIGHT DUTY 12,000 LB. CAPACITY SYMMETRIC TWO POST SURFACE MOUNTED FRAME CONTACT LIFTS SPO12

- A. Capacity:
1. SPO12: 12,000 lbs. (5443 kg); 3000 lbs. (1180 kg) per adapter.
B. Minimum Bay Requirements:
1. Floor space 12 feet x 26 feet (3657mm x 7925 mm).
2. Floor slab concrete 3000 psi - 4-1/4 inch (108 mm) minimum; 5 inch - 6 inch (127 mm - 152 mm).
C. Ceiling Height Requirements:
1. Standard Model: 13 feet 9 inches (4191 mm).
D. Height to Top of Overhead Bar:
1. Standard Model: 13 feet 8 inches (4166 mm).
E. Floor To Overhead Switch Bar:
1. Standard Model: 13 feet 4 inches (4064 mm).
F. Width Inside Columns: 113-3/8 inch (2880 mm).
G. Overall Width: 11 feet-5-5/8 inch (3496 mm).
H. Drive Through Clearance At Tires: 102-3/8 inches (2600 mm).

2 SPO12 2 POST LIFT SPECIFICATIONS

SCALE: NTS

- I. Rise:
1. (T Series) Model 3-Stage Arm: 80-1/4 inches (2038 mm) from floor level to top of adapter fully extended.
J. Finishes (Excluding Arms) - All Arms Are Yellow:
1. Blue, Standard RAL5005.
K. SPO12 Series Single Point Manual Controls - Manual Lock Release Electric Power Unit, UL201 Compliant, Over Hydraulic Cylinder Drive: All models bio-fluid compatible.
1. 2hp 208-230V 1 phase Motor 60Hz.
L. Arm Configurations:
1. 3-Stage Arms With RA Adapters T Series 12,000 lb capacity:
a. Front and Rear Arms: Minimum Reach 27-1/2 inches (696 mm) - Maximum Reach 59 inches (1499 mm) Minimum Adapter Height 4-3/4 inches (121 mm) - Maximum Adapter Height 12-1/4 inches (311 mm) from floor.
M. Accessories:
1. Air/Electric Utility Box.
2. Tool Holder.
3. Door Defender.
4. Light Kit.
N. Lift shall be 3rd party certified by ETL testing laboratory and labeled with the ETL/Automotive Lift Institute (ALI) label that affirms the lifts meet conformance to all applicable provisions of American National Standard ANSI/ALI ALCTV and in compliance with IBC chapter 30 section 3001.2.

PART 3 EXECUTION

3.1 EXAMINATION

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

3.2 INSTALLATION

- A. Install in strict accordance with manufacturer instructions and in proper relationship with adjacent construction. Test for proper operation and retest if necessary until satisfactory results are achieved.

3.3 PROTECTION

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

END OF SECTION

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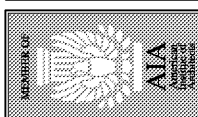
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ALL DIMENSIONS AND JOB CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR. ANY AND ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO COMMENCEMENT OF CONSTRUCTION.

Table with columns: ISSUE, DATE, BY. Rows: REVIEW 02/03/20 MF, PERMIT 02/03/20 MF, REV., REV., REV., REV., REV.



Construction Documents for: TIRE CHOICE - GOLDENROD 7412 HOFFNER AVE ORLANDO, FLORIDA



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SHEET TITLE: ROTARY LIFT DUAL POST LIFT SPECIFICATIONS. SHEET NUMBER: A-4.2