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HCL 1.3

1. UBC (Uniform building Code) available from the ICBO (See other pages for address)

2. NBC (National Building Code) available from BOCA (See other pages for address)

ICBO = International Conference of Building Officials

BOCA = Building Officials and Code Administrators

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HCL-1.4

SUGGESTED SPECIFICATIONS

PART 1 - GENERAL

1.1 SCOPE

To furnish all labor, materials and equipment necessary or required to complete the installation of the lift indicated on the Drawings and Specifications. This specification is intended to cover the complete installation of the Concord HANDILIFT-S Vertical Wheelchair Platform Lift design.

1.2 SYSTEM DESCRIPTION

Lift assembly shall consist of a platform, guide system, panels and gates, self-contained Acme Screw drive control system, signals and alarms, electrical wiring, and parts and accessories necessary to provide reliable performance operation and code and safety requirements.

1.3 QUALITY ASSURANCE

1.3.1 The lift shall meet or exceed the applicable regulations of all governing agencies and be in conformance with the applicable sections of the most current edition of the following codes and standards:

- a) ASME A18.1-1999 "Safety Standard for Platform Lifts and Stairway Chair Lifts.
- b) ICC/ANSI A117.1-1998 "Accessible and Usable Buildings and Facilities".
- c) ANSI/NFPA 70-1999 "The National Electric Code" (NEC).
- d) ADAAG "Americans With Disabilities Act Accessibility Guidelines" (where applicable).
- e) CSA B44.1/ASME A17.5 "Elevator and Escalator Electrical Equipment"
- f) Local codes and regulations, as applicable.

1.3.2 Requirements of the Regulatory Agencies

- a) Fabricate and install work in compliance with all applicable jurisdictional authorities.
- b) File shop drawings and submissions to local authorities as the information is made available. Complete inspection and jurisdictional authority inspections and permits are to be made on a timely basis as required. Work will include all inspections and re-inspections required to ensure licenses are issued.

1.3.3 Subcontractor Qualifications

- a) Execute work of this specification only by a contractor/company who has adequate product and public liability insurance in excess of one million dollars.
- b) Skilled tradesmen must be employees of the contractor and perform the work on a timely basis. Employees must be trained by the manufacturer and be supervised by the lift contractor.

1.3.4. Substitutions

No substitutions will be considered unless written request for approval has been submitted by the bidder received by the architect at least 10 days before the date of receipt of bids. Each such request shall include a complete description of the proposed substitute including drawings, test data, photographs, and any other information needed for consideration.

PART 2 - PREPARATORY WORK BY OTHERS

2.1 The following preparatory work to accommodate the lift is to be done by others:

- 2.1.1 Permanent 110 volt 20 amp min. power to operate the lift to be provided from a Lockable Fused/Circuit Breaker Type Disconnect Switch. Refer to architectural drawings for permanent power specifications and location of disconnect. Temporary power may be provided to expedite the installation of lift.
- 2.1.2 Provide clear access to lift installation location and remove all obstacles before lift delivery and installation.
- 2.1.3 Provide adequate overhead clearances as required by the applicable code and as per drawings.
- 2.1.4 Provide a substantial level floor (pit) slab as indicated on lift contractors' shop drawings.
- 2.1.5 Provide finish grouting, and masonry around walls, ceilings, and doors.
- 2.1.6 Provide adequate lighting at lift areas as required by the applicable code.

PART 3 - SUBMITTALS

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3.1 SHOP DRAWINGS

The shop drawings shall show a complete layout of the lifting equipment detailing dimensions, clearance location of lift equipment. Including the following:

- a) Drawings showing the dimensions including plans, elevations, and sections to show equipment location their relationship to surroundings.
- b) Anchorage and clearance requirements.
- c) Load and reaction drawings.

3.2 Samples

PART 4 - PRODUCT DATA

4.1 MANUFACTURER / PRODUCT

Lift shall be the CONCORD HANDILIFT Vertical Wheelchair Platform Lift manufactured by Concord Elevator, Brampton, Ontario, Canada. U.S. Toll Free Number 800 661-5112 and (905) 791-5555 Fax (905) 791-2

Dealer:

Name _____ Number _____

Rated Load: 750 lbs. (341 kg)

Normal Speed: 8 fpm (0.04 m/s)

Platform Dimensions: 35"W x 54" L (890 W x 1372 L mm)

Levels Served: 2

Travel Distance(up to 6' (18288mm) max): see drawings _____

Operation: Constant Pressure

Power Supply: 110 Volts, 1 Phase, 20 Amps min.

Drive Type: Acme Screw

Paint: Baked Electrostatic Polyester

4.2 SIGNAGE

4.2.1 The lift shall have all necessary signs, capacity plates, and data signs as per the Local and national codes and Standards.

4.2.2 A capacity plate indicating the rated load in pounds and kilograms and operating instructions shall be furnished by the manufacturer and fastened in a conspicuous place at each landing and in the platform. The capacity plate and operating instructions will be engraved on non-glare, micro-surface, white letters on a dark background, self-adhesive, flexible plastic material. The letters and figures stating the capacity shall not be less than 1/4" in height.

4.3 LIFT PLATFORM (CAR)

4.3.1 FRAME AND SIDE GUARD PANELS

Aluminum platform frame 42 1/4" high (1073 mm) with steel insert.

4.3.2 FLOOR

Formed steel with anti-slip sheeting.

4.3.3 GRAB RAIL

A single grab rail with both ends returned to the wall shall be located on the control wall of the carriage.

4.3.4 CAR OPERATING PANEL

Shall consist of constant pressure illuminated buttons, an emergency stop switch, alarm button, low oil indicator light, and an ON/OFF key switch mounted on a removable stainless steel panel (type 304 #4 stainless steel). The key shall only be removable when the key is in the OFF position.

4.5 DRIVE UNIT AND CONTROLS

The drive unit and controller shall be enclosed in the mast. The controller and drive unit shall be pre-wired and tested before shipment. Control circuitry is to be PCB mounted as an integral unit.

4.6 ACME SCREW

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1" O.D. , Class 2G, 5 pitch. Self-lubricating nut and screw drive.

4.7 SAFETY DEVICE

Integral "Back up" Safety Nut. In the event of failure of the main drive nut, the "Back up" Safety Nut will and trip a switch to stop the car automatically.

4.8 NORMAL TERMINAL STOPPING DEVICES

Normal terminal stopping devices shall be electro-mechanically sensed at the top and bottom of runway car automatically.

4.9 FINAL LIMIT STOPPING DEVICE

A final stopping device shall be electrically sensed and stop the lift should the lift pass the upper normal stopping device and remove the electrical power to the control circuit.

4.10 PIT SWITCH

Switch located at the base of the mast, when tripped will remove the power to the control circuit and stop operation of the car.

4.11 EMERGENCY MANUAL LOWERING

The top of the Acme Screw must be accessible and equipped such that the screw may be turned by use of a crank to lower the platform.

4.12 GUIDE RAILS AND BRACKETS

4.12.1 Steel "T" guide rails and brackets shall be used to guide the platform and sling.

4.12.2 Guide rail shall form part of the structural integrity of the unit and be integral to the mast enclosure for stability and minimum platform deflection when loaded.

4.13 CAR SLING

4.13.1 Car sling shall be fabricated from steel members with adequate bracing to support the platform and sling.

4.13.2 Guide shoes shall be mounted on the top and bottom of the car sling to engage the guide rails.

4.13.3 Guide shoes to be solid slipper type.

4.13.4 The car sling arms shall be detachable.

4.14 WIRING

All wiring and electrical connections shall comply with applicable Codes. Insulated wiring shall have flame retardant and moisture proof outer covering and shall be run in conduit or electrical wire ways.

4.15 FINISH

Electrostatically applied baked polyester powder coating paint finish.

PART 5 - EXECUTION

5.1 EXAMINATION

All site dimensions shall be taken to ensure that tolerances and clearances have been maintained and meet all applicable regulations.

5.2 PREPARATION

Pre-inspect the construction and service requirements for "Work by Others." These requirements will be shown in drawings, diagrams, engineering data sheets and special instructions before the work commences.

PART 6 - WARRANTY

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The lift contractor shall provide three (3) months free service from date of approval by local authorities. lift and all component parts shall carry a one (1) year limited warranty. The warranty shall be for the repair no cost of defective parts but shall not include the labor costs required to replace the defective part or p

PART 7 - OWNER'S INSTRUCTION AND MANUAL

After installation is completed, the contractor shall instruct the owner in the proper use, operation and m requirements of the lift. Instructions to also include emergency procedures and safety rules and precau Contractor shall also supply the owner with an Owner's Manual detailing the operating, safety, and mai procedures of the lift.

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