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SPECIFICATIONS

Section 14235 Elevators

Part 1 – GENERAL

1.01 Section Includes

- A. Furnish and provide all materials and labor necessary for the complete installation of the residential elevator.
- B. Obtain information on conditions affecting work at jobsite. Include verification of dimensions, field material for anchoring, accessibility and storage space. Verify voltages and outlets on electrical drawings.

1.02 Work Done By Others

- A. Pit poured to correct dimensions front to back and side to side and depth from the finished first floor level as indicated on the final layout drawings.
- B. Pit floor to be designed for an impact load of 3500 ftlbs.
- C. Machine room with an entrance door as indicated on the final layout drawings.
- D. Suitable, legal, two-hour fire-rated hoistway, if consistent with building construction.
- E. Electrician shall furnish a 25 amp, 220 volt single phase circuit with neutral and a ground to the elevator machine room for wiring to the controller. A separate 10 amp, 120 volt single phase circuit to be run to the elevator machine room for wiring the cab lights in the controller. **Disconnects for main power and car lighting are provided in the controller by the elevator manufacturer.**
- F. A 110 volt outlet and light must be provided in the machine room. The machine room light switch must be located in the machine room area nearest to the machine room door as per NAEC PART 620.
- G. A telephone cable to an outside exchange, as required by ANSI A17.1 CODE.

1.03 References

Design and installation shall be in compliance with regulations and all government agencies. Lift shall be subject to local, city and state approval prior to installation, along with city and state inspection after installation. Special local requirements shall be determined and handled locally by the distributor with the manufacturer's agreement.

1.04 Submittals

Drawings shall be submitted with manufacture's literature for approval. Drawings shall include rough-in and wiring requirements.

1.05 Substitutions

No substitutions will be considered unless written request for approval has been submitted by the bidder and was received by the architect at least ten (10) days prior to the date of receipt of bids. Each such request shall include the name of the materials for which it is to be substituted and a complete description of the proposed substitute including drawings, cuts, mock-ups, performance and test date, a list of projects of similar scope, photographs of existing installations and any other information necessary for evaluation.

Part 2 – PRODUCTS

2.01 Manufacturer

G.C.E. Mfg., LLC, Foley, Alabama

2.02 Product Type

- A. Type of elevator shall be 1:2 roped-hydraulic elevator unit.
- B. Car to be _____ inches wide by _____ inches deep with a minimum inside clear height of 6'- 8". Lifting capacity to be 750 pounds. Elevator serves _____ stops and travels a total distance of _____ feet _____ inches. Provide gate(s) on car as required to accommodate landing requirements.

2.03 Fabrication

- A. **Cab:** Series _____ (1000, 2000, 3000, 4000, 5000, 6000)
 - 1. Series 1000: Plywood veneer walls with clear urethane finish.
 - 2. Series 2000: Hardwood raised panel walls with clear urethane finish.
 - 3. Series 3000: Raised panel MDF walls finished white.
 - 4. Series 4000: Hardwood raised panel walls with glass on one side (above handrail).
 - 5. Series 5000: Beaded board walls painted finish.
 - 6. Series 6000: Beaded board walls stained finish.
- B. **Platform:** Car platform constructed of 1 ¼" plywood with vinyl tile flooring. (Hardwood floor optional)
- C. **Lighting:** Lighting will consist of two (2) recessed ceiling lights operated on a separate 120 volt circuit.
- D. **Car Gate:** Each open side of the cab shall be equipped with a folding car gate with (3) clear acrylic center panels and a finish that matches the selected car finish.
- E. **Door Interlocks:** A hoistway door interlock shall be furnished for each hoistway entrance. Interlock shall prevent operation of the elevator unless doors are closed and shall prevent opening of doors when the car is not at that landing.
- F. **Operation:** Operation shall be automatic. A call station shall be furnished for each entrance. A push-button station in the car shall have one button for each level served. Car station shall also contain an emergency stop switch and alarm button. An audible alarm shall be furnished on top of car.
- G. **Guide Rails:** Steel rails shall be furnished to guide the car. Guide rails shall be mounted to the floor slab and hoistway wall with steel brackets.
- H. **Power Unit:** Machine shall be 1:2 roped hydraulic type consisting of a positive displacement, submersible pump, motor, oil reservoir and hydraulic control valve.
- I. **Carriage:** Carriage shall be attached to the car platform on the guide rail side of the car. Instantaneous broken cable device shall be provided on the carriage.
- J. **Electric Supply:** Shall be 220 volt, single phase 25 amps. (with Neutral and a Ground)
- K. **Controller:** Microprocessor based controller located in the machine room. Single call, push-button automatic operation shall be provided. Automatic cab lighting as per ANSI A17.1-2000 CODE shall be provided. The controller shall be equipped with emergency stand-by batteries which lowers the elevator to the lowest landing in the event of power failure. Disconnects provided in controller cabinet.

2.04 Performance

- A. Rated load 750 pound capacity. (950 pound capacity available upon request)
- B. Nominal travel speed of 40 feet per minute

Part 3 – EXECUTE

3.01 Installation

- A. Coordinate work with general contractor.
- B. Wiring the unit shall be done as part of work of this section, a 25 amp circuit with neutral and ground required.
- C. The installation of the elevator shall be done in accordance with the approval plans and specifications and manufacturers installation instructions.

End of Section

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