



## Addendum #1

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Project: BL453 Harper Hall Upgrade Elevators  
IU 20251330

Date: June 19, 2026

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This Addendum, issued prior to bidding, alters, amends, corrects, or clarifies the Construction Bid Documents to the extent stated herein and does thereby become a part of the Construction Bid Documents, and will become part of the Contract Documents of the successful bidder. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

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### ITEMS INCLUDED IN THIS ADDENDUM

#### **05-27-2026 VIRTUAL PRE – BID MEETING ATTENDEES**

Brady White– American Elevator  
Dan Golnick – Murphy Elevator  
Nick Ehlerding – Oracle Elevator  
Tony Stuard – Stuard & Associates

#### **PROJECT KEY DATES**

Questions were to be received by email only 06-16-2026  
Addendum 1 will be supplied to Eastern Engineering by 06-19-2026  
Electronic Bids will be submitted online to [www.iuplanroom.com](http://www.iuplanroom.com) no later than 2PM June 23, 2026.  
Project substantial completion will be 08-21-2027.

#### **Questions/Comments**

**Can an Alpha Controller be a substitution for Smartrise**

- No

**Harper specs say to keep governors if existing HVEC.**

- This is an error in the specifications, all governors will be replaced

Please see revised specifications attached below.

END OF ADDENDUM 1

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SECTION 142100 - ELECTRIC TRACTION ELEVATOR

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions in all Divisions of the Specification apply to this Section.

1.2 SUMMARY

- A. Section includes the modernization of two (2) existing electric traction passenger elevators. The elevators are arranged as a duplex selective collective operation.

- 1. Complete commercial pre-engineered overhead traction elevator system that complies with the elevator standards of Indiana University:

- a. Microprocessor controller from one of the approved providers.
- b. Overhead Machine: Hollister Whitney.
- c. GAL Manufacturing Corporation high speed door operator and equipment.
- d. Innovation Industries Fixtures.
- e. In Car Emergency Phone: Wurcom+, Model 11-981-ss

- Machine Room Version – Wurcom Locus.

- f. Standard IU language for “permit location”

1.3 DEFINITIONS

- A. Definitions in ASME A17.1/CSA B44—2007 or latest Indiana adopted edition apply to work of this Section.
- B. AHJ: Authority Having Jurisdiction
- C. COP: Car Operating Panel
- D. CDI: Car Direction Indicator
- E. MCP: Maintenance Control Program as described in A17.1—2007
- F. CP: Capitol Projects

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- G. Substantial Completion: That date the last elevator is completed and restored to public service.

1.4 SUBMITTALS

- A. Product Data: Include capacities, sizes, performances, operations, safety features, finishes, and similar information. Include product data for car enclosures, hoistway entrances, and operation, control, and signal systems.
- B. Shop Drawings: Show plans, elevations, sections, and large-scale details indicating service at each landing, machine room layout, coordination with building structure, relationships with other construction, and locations of machines, controllers, governors, controllers, rope brake, signals, and any other such equipment. Indicate variations from specified requirements, maximum dynamic and static loads imposed on building structure at points of support, and maximum and average power demands. Provide listing of actual selections and floor plan layout of the elevator cab on the drawings.
- C. Shop Drawing & Submittal Distribution: The entire electronic submittal package shall be sent to Tony Stuard, [tony@elevatorinspection.com](mailto:tony@elevatorinspection.com), Stuard & Associates, Inc. Elevator Consulting Services. Submittals shall be uploaded to eBuilder.
- D. Samples: For exposed finishes of cars, common hoistway doors, Main Lobby hoistway door, and frames, and signal equipment; 3-inch- (75-mm-) square samples of sheet materials; and 4-inch (100-mm) lengths of running trim members.
- E. Manufacturer Certificates: Signed by elevator manufacturer certifying that hoistway, pit, and machine room layout and dimensions, as shown on Drawings, and electrical service, including emergency generator if provided, as shown and specified, are adequate for elevator system being provided.
- F. Contractor Licenses: The Contractor shall show proof of licensing for the company and any personnel working on the project.
- G. Maintenance Manuals: Supply one (1) operation and maintenance instructions, complete parts listing with sources indicated; recommended parts inventory listing, emergency instructions, and similar information. Include diagnostic and repair information available to manufacturer's and Installer's maintenance personnel including any and all inputs as well as outputs which are to be included on the "as-built" drawings. Send an electronic draft copy to Tony Stuard, Stuard & Associates, Inc., [tony@elevatorinspection.com](mailto:tony@elevatorinspection.com) for review and approval. Following approval, a single bound set shall be submitted for project closeout to the Owner.
- H. MCP: Provide in electronic form (Rule 8.6.1.2.1) a written Maintenance Control Program that sets forth how to maintain the equipment in compliance with the requirements of 8.6. The Maintenance Control Program shall consist of but not be limited to examinations, maintenance, and tests of equipment at scheduled intervals in order to ensure that the installation conforms to the requirements of 8.6. Before Substantial Completion, submit one

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(1) initial electronic draft copy of the MCP to Tony Stuard, [tony@elevatorinspection.com](mailto:tony@elevatorinspection.com) for review and approval. At Substantial Completion and the approval of the initial MCP, provide three hard copies to the Owner.

- I. Inspections, Acceptance Tests, Certificates, Operating Permits, Annual Tests:
  1. Apply and pay for all new Installation Permits.
    - a. Upon receipt, provide copy of Installation Permits to the Owner.
    - b. Upon project mobilization, post original or copy of Installation Permits in elevator machine room spaces.
  2. Make application and pay for any temporary operating permits and inspections unless required by others.
  3. Pay for the initial operating permit for all vertical transportation equipment specified.
  4. Coordinate and pay for all final elevator inspections.
  5. Perform Code required Annual Tests on during the 12<sup>th</sup> and final (24<sup>th</sup>) month of warranty.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Elevator manufacturer or an experienced installer who has completed elevator installations similar in material, design, and extent to that indicated for this Project and with a record of successful service and installation performance with Indiana University.
- B. Regulatory Requirements: In addition to local governing Building Codes and regulations, comply with applicable provisions in ASME A17.1—2007 editions including adopted supplements or any newly adopted versions thereof, "Safety Code for Elevators and Escalators", ASME A17.5—Electrical Equipment for Elevators and Escalators, NEII-1-2000, "Building Transportation Standards and Guidelines, NEC, "National Electrical Code."
- C. Accessibility Requirements: In addition to local governing regulations, comply with Section 4.10 in the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines (ADAAG)." Section 407 in ICC A117.1.
- D. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of elevator. Aesthetic effects are indicated by dimensions and arrangements as they relate to pit, hoistway, and machine room requirements and to adjoining construction.
  1. Do not revise intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If revisions are proposed, submit comprehensive explanatory data to Architect for review.
  2. Physical, electrical and mechanical characteristics of elevator specified for this Project are based on requirements indicated in Contract Documents. Contractor shall coordi-

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nate all changes to the Project required by use of equipment on Project. All coordination with and changes to Contract Documents, including but not limited to hoistway, pit, machine room, building electrical system, and building mechanical system shall be included in Base Bid. All costs shall be borne by Contractor. No additional costs to Owner or other contractors will be accepted.

1.6 COORDINATION

- A. Coordinate locations and dimensions of other work relating to electric traction elevators including electrical service, electrical outlets, lobby fixtures, lights and switches in pits, hoistway, machine rooms. Provide the necessary conductors from the fire control panel to the elevator equipment rooms as well as any conduit, wiring, and hardware to make firefighter's service code compliant.
  - 1. Coordinate final inspection with the AHJ, Stuard & Associates, Inc., and Owner's Project Manager.

1.7 WARRANTY

- A. Special Manufacturer's Warranty: Written warranty, signed by manufacturer agreeing to repair, restore, or replace defective elevator work as provided by the General Conditions and specified warranty.
  - 1. Warranty Period: Twenty-four (24) months from date of Substantial Completion. See Definition section page 1.
    - a. Substantial completion will be that date at which the last to be completed passenger elevator and service elevator are restored to public service and all punch list items have been completed.
    - b. Prior to placing any completed elevator into public service, the IU Elevator Consultant, Elevator Contractor, General Contractor (if applicable) and IU Maintenance Staff shall schedule a final inspection to verify specification compliance.
    - c. During the 22<sup>nd</sup> month of the Warranty, contact the IU Elevator Consultant and IU Elevator Maintenance Staff shall schedule an inspection to determine the condition of the elevator equipment prior to the warranty expiration. The Contractor shall be required to make any adjustments or replace any defective equipment found.

1.8 MAINTENANCE SERVICE

- A. At the time of either Substantial Completion, the Contractor shall provide twenty-four (24) months of what is commonly referred to in the elevator industry as full maintenance service using skilled, licensed employees of the Contractor. Include preventive maintenance examinations, common repairs and/or typical replacement of worn or defective components. Provide routine lubrication, cleaning, and adjusting as required for proper elevator operation. Provide parts and supplies as used in the manufacture and installation of original equipment.

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1. Perform no less than MONTHLY routine maintenance and include emergency callback service during normal working hours. Requests for any service made outside of normal hours shall be provided by the Contractor upon request. The Owner shall be responsible for only the bonus portion of the hourly rate should overtime callbacks be requested. Callbacks made necessary as a result of vandalism or other causes beyond the control of the Contractor shall be billed at the Contractor's regular rates.
  - a. Emergency service requests for service shall be initiated by the IU Elevator Maintenance Staff which will verify the condition of the elevator and will communicate to the Elevator contractor the status of the elevator by fax or email.
  - b. Response Time Routine Callback: Within 24 hours.
  - c. Check in Procedure: Following any routine service, a response to a callback, repair, and/or test, the Contractor shall be required to provide the IU Bloomington elevator shop Service Manager a copy of any/all work done.
  - d. The IU Elevator Shop will initially respond to elevator related issues. Once having determined a problem exists, the contractor will be called to dispatch a technician. The Elevator Shop will not service or repair elevators during warranty.
2. The Contractor shall maintain a log within each elevator machine room. All service examinations, callbacks, repairs, replacements, Fire Service tests, and safety tests shall be recorded. At the end of the warranty, provide a complete copy of the log for the Owner.
3. The Contractor shall be required to perform an Annual during the 12<sup>th</sup> and 24<sup>th</sup> (final) month of the warranty. All tests shall be recorded in the machine room log.
4. The Contractor shall perform and record the Fire Service testing on a monthly basis. A log shall be kept in the machine room.

1.9 IU APPROVED ELEVATOR CONTRACTORS

A. Elevator Contractors:

1. American Elevator, 2067 600 S, Anderson, IN 46017, 765-374-0429, [www.americanelevatorinc.com](http://www.americanelevatorinc.com)
2. KONE Elevators, 5201 Park Emerson Dr., Suite E, Indianapolis, IN 46203 (317) 788-0061, [www.kone.com](http://www.kone.com)
3. DC Elevator Co., 140 E. Woodlawn Avenue, Louisville, KY 40214 (502) 363-5961, [www.dcelevator.com](http://www.dcelevator.com)
4. Murphy Elevator Co. Inc., 2525 N Shadeland Ave, B12, Bldg 30, Indianapolis, IN 46219, 317-247-9690, [www.murphyelevator.com](http://www.murphyelevator.com)
5. Oracle Elevator Company, 6242 La Pas Trail, Indianapolis, IN 46268, [www.oracleelevator.com](http://www.oracleelevator.com)
6. ThyssenKrupp Elevator, 7217 East 87<sup>th</sup> Street, Indianapolis, IN 46256, (317) 595-1125, [www.thyssenkruppelevator.com](http://www.thyssenkruppelevator.com)

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- B. Source Limitations: Use only equipment as specified.

1.10 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with ASME A17.1/CSA B44—2007 or current Indiana adopted edition.
- B. Accessibility Requirements: Comply with Section 407 in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and with ICC A117.1.

PART 2 - PRODUCTS

2.1 ELEVATORS

- A. Elevator Descriptions:

1. Elevator Number 1.

- a. Asset Number: 63768  
b. State Number: 37575

2. Elevator Number 2

- a. Asset Number: 63767  
b. State Number: 37574

3. Type: Geared Overhead Traction

- |                           |   |                   |
|---------------------------|---|-------------------|
| 4. Elevator 1 Rated Load: | 3500 lb.  | Maintain Existing |
| 5. Elevator 2 Rated Load  | 2000 lb   | Maintain Existing |
| 6. Rated Speed:           | 200 fpm   | Maintain Existing |
| 7. Openings:              | 10 – In Line.   |                   |
| 8. Floors Serviced:       | G, 1-9  |                   |
| 9. Operation System:      | Duplex Selective Collective Operation.                          |                   |
| 10. Door Equipment:       | Replace Current GAL with New GAL.                               |                   |
| 11. Door Protection:      | Replace Light Curtains  |                   |
| 12. Guide Rails:          | Retain  |                   |
| 13. Guide Shoes:          | Retain Current Elsco  |                   |
| 14. Hoist Ropes:          | Replace with 5 - 5/8 size cables – Use Only Bethlehem Wire Rope |                   |
| 15. Governor Rope:        | Replace with New  |                   |
| 16. Buffers:              | Retain  |                   |
| 17. Counterweights:       | Retain  |                   |
| 18. Safeties:             | Replace with Hollister Whitney                                  |                   |
| 19. Governors:            | Replace New Hollister Whitney                                   |                   |

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20. Car Frame & Platforms: Retain
21. Machines: Replace Existing with Hollister Whitney
22. Unintended Movement Device: Add Hollister Device
23. Controller: Replace with Smartrise Solid State
24. Motor: Replace with AC Motor
25. Car Operating Panels: Replace with Code Compliant C.O.P from Innovation
26. Hall Button Stations: Replace with Innovation Combination Button, Lantern & PI
27. Hall Position Indicator: Replace first floor Fixtures. Remove and Replace Void with Stainless Steel Plate on All Other Floors.
28. Hall Lanterns: Remove and Replace Void with Stainless Steel Plate
29. Wiring: Replace with New
30. Exhaust Fan: Replace with New
31. Hoistway Entrances: Retain
32. Key Operated Hoistway Access: Supply New Feature
33. Auxiliary Operations:
  - a. Fire Fighters Service
  - b. Load Weighing
  - c. Independent Service.
  - d. Hoistway Access.
  - e. Emergency Power
34. Security: In car card reader
35. Cab Enclosure:
  - a. Inside Width: Field Verify
  - b. Inside Depth: Field Verify
  - c. Inside Height: Filed Verify
  - d. Cab Return/Strike Jamb: Provide new satin stainless steel, No. 4 finish.
  - e. Car Fixtures: Stainless steel 300 series.
  - f. Side and Rear Wall Panels: Removable, wrapped edges with 5WL textured.
  - g. Reveals: Stainless steel 300 series
  - h. Door Faces (Interior): Satin stainless steel, No. 4 finish.
  - i. Door Sills: Extruded Aluminum.
  - j. Ceiling: New down lighting with LED.
  - k. Floor: TBD.
  - l. Provide blanket hooks and a complete set of full-height protective blankets.
36. Hoistway Entrances:
  - a. Reuse Existing.
    - 1) Width: 36 inches.

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- 2) Height: 84 inches.
- 3) Type: Center Opening

37. Hall Fixtures:

- a. Replace the first-floor existing lobby pushbuttons with all new vandal resistant as specified. Also supply code compliant fire service phase 1&2 key switch in the face plate.
- b. Add a new set of vandal resistant lobby buttons at each elevator lobby and G, 1-11. All fixtures shall have a combination PI feature incorporated within button faceplate.
- c. Replace hall position indicators with a stainless cover plate.
- d. Satin stainless steel, No. 4 finish.

2.2 TRACTION SYSTEMS AND COMPONENTS

- A. Indiana University relies on the IU Elevator Shop to maintain elevators and perform State required testing. For this reason, it is important that **only IU approved, and non-proprietary elevator control equipment be installed** when specified and that all required tools, passwords, equipment and training necessary to service the conveying equipment be provided by the Elevator Contractor.
- B. Elevator Machines:
  1. Replace all existing drive machines.
    - a. Use Hollister Whitney equipment.
  2. Replace existing motor with new AC type.
  3. Replace hoist cables.
- C. Car Safety:
  1. Replace Existing
  2. Complete any/all testing required by the AHJ at the time of Acceptance.
  3. Use only Hollister Whitney Equipment.
- D. Governor:
  1. Replace existing.
    - a. Use Hollister Whitney equipment.
  2. Furnish and install a new governor rope.

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- a. Supply Approved cable tags as required by Code.
3. Replace existing governor tail sheave within the pit area.
4. Complete any/all testing required by the AHJ at the time of Acceptance.
  - a. Seal all adjustments after testing.
- E. Ascending Car Overspeed/Unintended Movement:
  1. The elevator shall be equipped with a new ascending car overspeed and unintended movement device.
    - a. Mount each device according to the manufacturer's recommendations.
    - b. Manual reset after activation shall be a requirement.
- F. Car Frame and Platform:
  1. Reuse existing.
  2. Provide a new code compliant toe (apron) guard.
  3. Replace car sill with new extruded aluminum.
- G. Guide Rails:
  1. Reuse existing.
    - a. Check alignment of existing rails and adjust if necessary to ensure that they are straight and plumb within 1/16" per 100'.
    - b. File all rail joints to a smooth and seamless condition.
- H. Car and Counterweight Roller Guides:
  1. Supply new ElSCO roller guide assemblies for both car and counterweights.
  2. Follow Manufacturer's recommended sizes for each elevator's duty, speed, and capacity.
- I. Top of Car Equipment:
  1. A car top light and GFCI outlet shall be permanently mounted at the crosshead.
    - a. The light shall be provided with a protective cover.
  2. Provide a secondary car top lighting source attached to a cable of suitable length to allow elevator personnel to operate the device from various locations on the car top.
    - a. Light shall be provided with a protective cover.

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3. Car top illumination shall be no less than 100 lx
  4. Emergency escape hatch shall be supplied with an electrical switch in which the contacts are closed in normal operation.
- J. Hoistway Limit Switches:
1. Provide new directional and final limit switches, cams, brackets, and hardware.
- K. Pit Stop Switch:
1. Locate a new pit stop switch adjacent to each pit ladder in accordance with ASME A-17.1-2007
- L. Wiring:
1. Furnish and install all wiring, conduit, traveling cables and hardware necessary to complete the Work as specified.
  2. All traveling cables shall have low voltage wiring for in-car communications and future card reader access. There shall be no less than 5 shielded pairs within the traveling cable.
  3. Traveling cables shall maintain a minimum of 5% spare wires.
  4. All mechanical space requires Rigid conduit according to University Standards.
  5. Where appropriate, existing conduit and duct “may” be reused provided they meet or exceed NEC standards and requirements as published in the latest edition.
  6. NONE of existing elevator control wiring including traveling cables is to be reused.
  7. Coordinate the wiring of smoke detectors and card readers. Provide information to other disciplines as to required signal needs of the elevator controller.
  8. Provide car light disconnects, pit GFIC’s and switches, pit lights, secondary lighting and GFIC, and specified.
  9. Main line disconnect may be use if code compliant.
  10. Supply pre-transfer signal wiring from emergency power switch gear to elevator motion controller.
  11. Supply emergency power jewel wiring from the switch gear to the elevator motion controller.
- M. Pit Ladders:
1. Reuse existing.
    - a. Ensure ladder is code compliant.
- N. Pits:
1. Clean and dry each pit at the conclusion of the Work.

2.3 REVISIONS TO CONSTRUCTION DOCUMENTS PER ADDENDUM 1 – June 19, 2026

A. Non-Proprietary Elevator Controller:

1. Products: Subject to compliance with requirements, provide products by one of following:
  - a. Smartrise Only
2. Provide a simplex selective/collective, solid state starting, microprocessor-based control system requiring no external tools or computers.
  - a. Controller shall provide for on-board programming of basic functions with alphanumeric keypad and digital display.
  - b. Controller shall be equipped in on-board diagnostics.
  - c. Controller requiring removable service tool or hand-held computer for diagnostic, adjusting, or set-up shall be permanently mounted within elevator controller and shall be included as an integral part of controller provided as work of this Section. All such equipment and devices shall become property of Owner, have permanently based system memory, and shall not require licensing. Device shall provide unrestricted access to all parameters, flags, inputs, and outputs for maintenance and troubleshooting of controller.
  - d. Service and diagnostic tools may be programmed to work specifically/only for elevator system included in Work of this Section.
  - e. Should tool be stolen, lost, damaged, or cease to function, a replacement shall be provided by manufacturer at listed/published replacement cost.
  - f. Software:
    - 1) Software shall have permanent memory, shall not expire over time, nor shall system require special passwords or key unknown to Owner. No licensing agreement shall be required.
    - 2) Should controller software suffer memory loss or become corrupted, new software shall be provided to Owner at listed/published replacement cost.
    - 3) Owner shall be notified of software updates and recalls that may be developed. Changes directly related to safety shall be provided to Owner at no charge.
  - g. Training:
    - 1) If requested by Owner, the Contractor shall provide a four-hour training session for Owner and Owner's elevator service provider's representative within first 30 days of warranty. The Contractor shall instruct Owner's representatives on the way any service tool or diagnostic device is accessed and utilized. The Contractor shall discuss and identify the contents of the Owner's Manuals at this time with Owner personnel present. Parameters and capabilities of device shall be demonstrated.

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h. Technical Support:

- 1) Should Owner require telephone or on-Site technical support or product assistance, the Contractor shall provide support at current field labor rates for an individual/single service technician and within a reasonable time as determined by Owner.
- 2) Project manuals, wiring diagrams, and prints shall be provided as full and complete set with circuitry information for all systems and components. Information required for troubleshooting, maintenance, and repair of entire system shall be included. Updates, field notifications, and modifications shall be provided for each elevator controller system.

B. Landing System:

- a. Provide controller manufacturer's standard landing system. Use vanes, magnets, and necessary hardware.
- b. The elevator shall be capable of stopping level (1/8" maximum) with any floor regardless of load and/or direction of travel.

C. Motor Requirements:

1. Limit total harmonic distortion of regenerated power to 5 percent per IEEE 519.
2. Provide line filters or chokes to prevent electrical peaks or spikes from feeding back into building power system.

D. Auxiliary Operations:

1. In addition to primary operation system features, provide the following operational features for elevators where indicated:
  - a. Elevator Recall:
    - 1) Provide Phase I and Phase II firefighter's service. Use FEO-K1 keys.
  - b. Independent Service:
    - 1) Provide a rocker switch in the Service Compartment that removes the car from group operation and allows it to respond only to car calls.
    - 2) When in independent service, doors close only in response to door close button.

c. Hoistway Access:

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- 1) By use of a Hoistway Enable switch located within a Service Cabinet located in each COP, provide Hoistway Access.
  - 2) Seven pin Best Lock interchangeable systems shall be required at all terminal landings.
  - 3) Owner will supply cores.
  - 4) Utilize a separate fixture located adjacent to the lobby entrance.
- d. Top-Of-Car Operation:
- 1) Provide a new top of car operating station.
  - 2) Included all the normal code required operating features.
  - 3) The operating device shall be secured to a flexible cord that allows the unit to be safely stored near the door operator and accessible from the lobby entrance.
    - a) The cable shall be long enough to allow usage at the rear of the elevator from a standing position.
- e. Standby Emergency Power:
- 1) Each elevator shall be capable of operating under emergency generator power conditions as follows:
    - a) When emergency power has been provided to the elevator system, both elevators shall be lowered to the Designated Landing in sequence, with the third elevator remaining for normal use.
    - b) As each elevator returns, the doors shall open and remain open if emergency power conditions exist. During this time, position indicators shall show these two elevators as OUT OF SERVICE.
    - c) Once the second elevator has reached the Designated Landing and the doors have opened, the elevator selected for use during emergency power shall automatically begin normal operation without recall to the Designated Landing.
    - d) Should firefighter's service be activated during an emergency power condition, the elevators operating under emergency power shall recall to the Designated Level or Alternate Floor and operate routinely as required by Phase II procedures.
    - e) Provide a jewel-type visual indicator, integrally mounted within the main egress hall fixture, to annunciate emergency power status. The indicator shall illuminate upon transfer to emergency power and shall automatically extinguish upon restoration of normal utility power. The indicator shall be wired to the emergency power signal downstream of the ATS.

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f. Automatic Operation of Lights and Fan:

- 1) When elevator is stopped and unoccupied with doors closed, lighting, ventilation fan, and cab displays are de-energized after an adjustable time of between five and 20 minutes and are re-energized before car doors open. Such system shall not have any effect on car top lighting.

E. Security Features:

1. Provide the following security features.

a. Provide COP. card reader operation.

- 1) Security features shall not interfere with firefighter's service operational features.

2.4 CAR DOOR EQUIPMENT

A. Replace operator including interlocks, closures, clutch, gate switches, restrictors, closures, guides, restraints, hanger tracks, hangers, and rollers.

1. Replace door operator with GAL solid state MOFVR type high speed systems.
2. See 2.7.C for hoistway door equipment requirements.
3. Upon completion of each elevator, the door operator and lobby doors shall be adjusted for smooth and quiet operation and attain a full open.

2.5 DOOR REOPENING DEVICES

A. Infrared Array:

1. Provide door reopening device with uniform array of microprocessor-controlled, infrared light beams projecting across car entrance. Interruption of one or more light beams shall cause doors to stop and reopen. Use Adams Equipment reopen devices.

B. Nudging Feature:

1. After car doors are prevented from closing for predetermined adjustable time, through activating door reopening device, a loud buzzer shall sound, and doors shall begin to close at reduced kinetic energy.

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2.6 HOISTWAY ENTRANCES

A. Hoistway Entrance Assemblies:

1. Reuse all existing.
  - a. Wrap existing frames with stainless steel skins with a satin #4 finish.
  - b. Provide braille plates and raised numerals on both sides of jambs.
    - 1) 60" to center line
    - 2) Characters shall be 2" inches minimum height
  - c. Retain all existing hoistway sills.
    - 1) Clean and paint all sills.

B. Replace all baked enamel hoistway doors with new stainless steel #4 satin finish type doors.

1. Each door panel shall have a UL label.

C. Hoistway Door Equipment:

1. Replace all existing door equipment.
2. The header can remain if found to be appropriate and can work in conjunction with the new GAL equipment.
3. Required replacements includes:
  - a. hanger tracks
  - b. hangers, rollers
  - c. relating cables
  - d. interlocks
  - e. door retainers
  - f. pick-up rollers and linkage.

2.7 CAR ENCLOSURES

A. Replace the car enclosures with the following materials & finishes.

1. Replace existing cab return, strike column and transom with new stainless steel #4 satin finish.
2. Replace all existing interior hang on panels with new 5WL stainless steel finish panels.
  - a. Provide design samples to owner during submittals.

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3. Provide two (2) separate matching sets of handrails on each side wall and back wall for both elevators.
  - a. Mounting height shall be 34 inches and 7 inches above finished floor to centerline.
4. Provide new stainless steel #4 polish finish cab ceiling with LED can/down lighting.
  - a. Include an emergency exit.
  - b. There shall be a minimum of 100 lx across the cab floor.
  - c. Provide design samples to owner during submittals.
5. Provide low-voltage lighting.
  - a. Black, cast metal housing, 3" diameter.
  - b. Lamps: LED, 3500K color temperature with aluminum reflector and code compliant rubber coated lens.
6. Provide new two-speed exhaust fans.
  - a. Mounted on cartop
    - 1) On isolation pads
7. Provide a new extruded aluminum car sill.
8. Provide a new car door panel.
  - a. Door should be made of 16-gauge type 304 stainless steel, #4 finish
9. Provide new elevator flooring
10. Provide a single set of protective pads for the entire cab interior

2.8 SIGNAL EQUIPMENT

A. General:

1. Supply only Innovation or Monitor Type Products.
2. Provide vandal-resistant hall-call and car-call buttons that light when activated and remain lit until call has been fulfilled.
3. Fabricate lighted elements with LED lamps.

B. Car Operating Panel:

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1. Provide recessed car-operating stations.
  - a. Mark buttons and switches with standard identification and Braille for required use or function that complies with ASME A17.1-2007. Use both tactile symbols and Braille.
  - b. Provide "No Smoking" sign matching car control station, either integral with car control station or mounted adjacent to it, with text and graphics as required by authorities having jurisdiction.
  - c. Provide Owner's standard language indicating permit is on file at Physical Plant.
  - d. Provide "Emergency Stop" rocker switch in Service Cabinet.
  - e. Provide digital-type car position indicator near upper end of car control panel.
  - f. Provide emergency light located near upper end of car control station.
    - 1) Emergency backup battery lighting systems for cab interior LED lighting as manufactured by the BODINE Company, Model B30 ([www.bodine.com](http://www.bodine.com)) 1-800-223-5728 or approved equal as furnished by Elevator Manufacturer. An emergency light in the car operating panel is not required.
  - g. Provide Service Cabinet within car control panel.
  - h. Use only Best Lock system cylinder to secure cabinet door.
  - i. Owner will furnish core for elevator company installation.
  - j. Locate within cabinet:
    - 1) Locate the hoistway enable
    - 2) stop switch
    - 3) independent service
    - 4) light and fan rockers
    - 5) emergency light test switch
    - 6) GFI outlet within the cabinet
2. Provide Code-required firefighter's service control cabinet.
  - a. Provide Code-required functions with instructions on inside of cabinet door.
3. Where non-Best Lock cylinders are provided, supply Owner with no less than 3 keys per cylinder.

C. Emergency Communication System:

1. Provide system that complies with ASME A17.1 and the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG).
2. Install a two-way communication unit at the bottom of the car operating panel as manufactured by Wurtech, Wurcom +, Model 11-981-ss. This unit consists of a single

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pushbutton and is mounted behind the COP. It includes an automatic dialer with appropriate indicator lights, pre-recorded message, and all other essential features necessary to comply with ADA.

- a. On activation, system dials preprogrammed number of monitoring station and identifies elevator location to monitoring station.
- b. System shall provide two-way voice communication without using a handset and shall provide visible signals that indicate when system has been activated and when monitoring station has responded.
- c. System shall be contained in flush-mounted cabinet, with identification, instructions for use, and battery backup power supply.
- d. When supplying two-way communication for those elevators of 60' of travel use Wurcom Locus device supplied by Wurtech.

D. Car Position Indicator:

1. Provide illuminated, digital-type car position indicator, located above car control station.
  - a. Also provide audible signal to indicate to passengers that car is either stopping at or passing each of the floors served.

E. Lobby Position Indicator:

1. Provide illuminated, digital-type car position indicator to be located above the door frame at the designated level.

F. Hall Push-Button Stations:

1. Provide only vandal-resistant fixtures.
  - a. Provide units with flat faceplate for mounting with body of unit recessed in wall.
  - b. utilizing LED lighting.

G. Car Direction Indicator:

1. Provide vandal-resistant Car Direction Indicator in cab panel located to be seen from vicinity of lobby pushbutton.
2. Utilize LED lighting.

H. Provide new emergency pictorial signs

2.9 FINISH MATERIALS

- A. General: Provide the following materials for exposed parts of elevator car enclosures, car doors, hoistway entrance doors and frames, and signal equipment as indicated.

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- B. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, commercial steel, Type B, exposed, matte finish.
- C. Hot-Rolled Steel Sheet: ASTM A 1011/A 1011M, commercial steel, Type B, pickled.
- D. Stainless-Steel Sheet: ASTM A 240/A 240M, Type 304.
- E. Stainless-Steel Bars: ASTM A 276, Type 304.
- F. Stainless-Steel Tubing: ASTM A 554, Grade MT 304.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine elevator areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work. Examine hoistways, hoistway openings, pits, and machine rooms as constructed; verify critical dimensions; and examine supporting structure and other conditions under which elevator work is to be installed.
- B. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. ONLY one elevator shall be removed from service at a time.
- B. Comply with manufacturer/installer's written instructions.
- C. Welded Construction: Provide welded connections for installing elevator work where bolted connections are not required for subsequent removal or for normal operation, adjustment, inspection, maintenance, and replacement of worn parts. Comply with AWS standards for workmanship and for qualifications of welding operators.
- D. Sound Isolation: Mount rotating and vibrating equipment on vibration-isolating mounts to minimize vibration transmission to structure and structure-borne noise due to elevator system.
- E. Lubricate operating parts of systems, including ropes, as recommended by manufacturers.
- F. Leveling Tolerance: 1/8 inch, up or down, regardless of load and travel direction.

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- G. Completely clean all hoistways, pits, and sill areas upon completion.

3.3 FIELD QUALITY CONTROL

- A. Acceptance Testing: On completion of each elevator installation and before permitting public use, perform acceptance tests as required and recommended by ASME A17.1/CSA B44 and by governing regulations and agencies. Contact Stuard & Associates, Inc. prior to scheduling.

3.4 PROTECTION

- A. Entrances: Keep each elevator lobby entrance totally closed and always locked when no workers are present.
- B. Keep large toolboxes and tools away from walkways and areas accessible to the public.
- C. Remove trash and debris as created and keep all public areas clear and clean.

3.5 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to operate, adjust, and maintain elevators.
- B. Check operation of each elevator with Owner's personnel present before date of Substantial Completion and again not more than one month before end of warranty period. Determine that all operation systems and devices are functioning properly.

END OF SECTION 142100