



State of Utah

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Governor

GREG BELL
Lieutenant Governor

Department of Administrative Services

KIMBERLY K. HOOD
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON
Director

ADDENDUM NO. 1

Date: October 12, 2009

To: Contractors

From: Bob Anderson, Project Manager, DFCM

Reference: Elevator Modernization - Ogden Regional Center
Division of Facilities Construction and Management
DFCM Project No. 09071310

Subject: **Addendum No. 1**

Pages	Addendum Cover Sheet	1 page
	<u>Architect's Addendum No. 1</u>	<u>33 pages</u>
	Total	34 pages

Note: *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

1.1 **SCHEDULE CHANGES:** No Project Schedule changes

1.2 **GENERAL ITEMS:** See attached Architect's Addendum No. 1.



October 7, 2009

ADDENDUM #1

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PROJECT: Ogden Regional Center – Elevator Modernization
Project No. - 09071310
2540 Washington Boulevard
Ogden, UT 84401

BID DATE: October 20, 2009

BID TIME: 3:00 p.m.

Please note and include the following items to the Contract Documents. The General Contractor shall be responsible to incorporate these changes into the Contract Documents and shall also be responsible to notify all sub-contractors of this addendum.

PROJECT MANUAL:

1. **SECTION 024119 – SELECTIVE DEMOLITION AND SALVAGE:**
 - 1.1. Entire section: pages 1-4, see the attached section, has been modified from the previous one posted on 9/28/09. Header on spec. document should say 'addendum #1'.
2. **SECTION 099123 – INTERIOR PAINTING:**
 - 2.1. Entire section: pages 1-5, see the attached section, has been modified from the previous one posted on 9/28/09. Header on spec. document should say 'addendum #1'.
3. **SECTION 102600 – WALL PROTECTION:**
 - 3.1. Entire section: pages 1-2, see the attached section, has been modified from the previous one posted on 9/28/09. Header on spec. document should say 'addendum #1'.
4. **SECTION 142100 - ELECTRIC TRACTION ELEVATORS:**
 - 4.1. Entire section: pages 1-21, see the attached section, has been modified from the previous one posted on 9/28/09. Header on spec. document should say 'addendum #1'.

End of Addendum #1

SECTION 024119 - SELECTIVE STRUCTURE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Demolition and removal of selected portions of building or structure.
 - 2. Demolition and removal of selected site elements.
 - 3. Salvage of existing items to be reused or recycled.

1.2 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Salvage: Detach items from existing construction and deliver them to Owner. See Part 3.4 below.
- C. Remove and Reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.
- D. Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.3 SUBMITTALS

- A. Schedule of Selective Demolition Activities: Indicate detailed sequence of selective demolition and removal work, with starting and ending dates for each activity, interruption of utility services, use of elevator and stairs, and locations of temporary partitions and means of egress.
- B. Predemolition: Contractor shall maintain periodic photographic records during demolition and new construction. Show existing conditions of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damage caused by selective demolition operations. Upon request by Owner or Architect, provide copies of photographs to substantiate claims of damage or of prior existing conditions.

1.4 PROJECT CONDITIONS

- A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

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1. Before selective demolition, Owner will remove the following items:
 - a. Miscellaneous wall signage in lobbies. Exact count to be determined before new painting begins.
- C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 1. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Owner will remove hazardous materials under a separate contract.
- E. Storage or sale of removed items or materials on-site is not permitted.
- F. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 1. Maintain fire-protection facilities in service during selective demolition operations.

1.5 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials so as not to void existing warranties.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Since all utilities are expected to remain in service to the building, only floor by floor Lobby fire sprinklers need to be valved off according to the Phase Construction Schedule.
- B. From time to time, during demolition and construction, it is anticipated the emergency generator, related main switch gear and secondary electrical panels may need to be temporarily interrupted to make new connections. Plan at least 72 hours notice to the building Owner of any shut downs. Shut downs may only be planned for after regular work hours or on weekends unless specifically approved in advance by the building Owner.
- C. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- D. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.

- E. Engage a professional engineer to survey condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective demolition operations.
- F. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems: Maintain services/systems indicated to remain and protect them against damage during selective demolition operations.
- B. Service/System Requirements: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.
 - 1. Arrange to shut off indicated utilities with utility companies.
 - 2. If services/systems are required to be removed, relocated, or abandoned, before proceeding with selective demolition provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
 - 3. Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit after bypassing.

3.3 PREPARATION

- A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 - 1. Comply with requirements for access and protection specified in Division 01 Section "Temporary Facilities and Controls."
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
- C. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

3.4 SELECTIVE DEMOLITION

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods and regulations and as follows:
 - 1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and

chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.

2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain a fire watch and portable fire-suppression devices during flame-cutting operations.
4. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.

B. Removed and Salvaged Items:

1. Existing elevator cars and related hoist equipment scheduled to be replaced, when removed, become the property of the General Contractor. Contractor shall promptly remove from the premises each item. Do not store demolished items on site.

C. Removed and Reinstalled Items:

1. Carefully remove Lobby signage and clean and repair items to functional condition adequate for intended re-installation.
2. Protect items from damage during transport and storage.
3. Clean and reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

- D. Existing Items to Remain: Protect construction indicated to remain, such as Lobby drinking fountains and light fixtures, against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition where they shall be cleaned prior to being reinstalled in their original locations after selective demolition operations are complete.

3.5 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and dispose of legally.
- B. Burning: Do not burn demolished materials.

3.6 CLEANING

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 024119

SECTION 099123 - INTERIOR PAINTING

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes surface preparation and the application of paint systems on the following interior substrates:
 - 1. Gypsum board.
 - 2. Previously painted hollow metal door frames.
 - 3. Machine Room floors, walls and ceilings.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples: For each finish and for each color and texture required.
- C. Product List: Printout of current "MPI Approved Products List" for each product category specified in Part 2, with the proposed product highlighted.

1.3 QUALITY ASSURANCE

- A. MPI Standards:
 - 1. Products, preparation and workmanship: Complying with MPI standards indicated and listed in "MPI Approved Products List."

1.4 EXTRA MATERIALS

- A. Furnish extra materials described below that are from same production run (batch mix) as materials applied and that are packaged for storage and identified with labels describing contents.
 - 1. Quantity: Furnish an additional (five) 5% percent, but not less than **1 gal. of** each material and color applied.

PART 2 - PRODUCTS

2.1 PAINT, GENERAL

- A. Material Compatibility:

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1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- B. VOC Content of Field-Applied Interior Paints and Coatings: Provide products that comply with the following limits for VOC content, exclusive of colorants added to a tint base, when calculated according to 40 CFR 59, Subpart D (EPA Method 24); these requirements do not apply to paints and coatings that are applied in a fabrication or finishing shop:
1. Flat Paints, Coatings, and Primers: VOC content of not more than 50 g/L.
 2. Nonflat Paints, Coatings, and Primers: VOC content of not more than 150 g/L.
 3. Flat Topcoat Paints: VOC content of not more than 50 g/L.
 4. Nonflat Topcoat Paints: VOC content of not more than 150 g/L.
- C. Chemical Components of Field-Applied Interior Paints and Coatings: Provide topcoat paints and anti-corrosive and anti-rust paints applied to ferrous metals that comply with the following chemical restrictions; these requirements do not apply to paints and coatings that are applied in a fabrication or finishing shop:
1. Aromatic Compounds: Paints and coatings shall not contain more than 1.0 percent by weight of total aromatic compounds (hydrocarbon compounds containing one or more benzene rings).
 2. Restricted Components: Paints and coatings shall not contain any of the following:
 - a. Acrolein.
 - b. Acrylonitrile.
 - c. Antimony.
 - d. Benzene.
 - e. Butyl benzyl phthalate.
 - f. Cadmium.
 - g. Di (2-ethylhexyl) phthalate.
 - h. Di-n-butyl phthalate.
 - i. Di-n-octyl phthalate.
 - j. 1,2-dichlorobenzene.
 - k. Diethyl phthalate.
 - l. Dimethyl phthalate.
 - m. Ethylbenzene.
 - n. Formaldehyde.
 - o. Hexavalent chromium.
 - p. Isophorone.
 - q. Lead.
 - r. Mercury.
 - s. Methyl ethyl ketone.
 - t. Methyl isobutyl ketone.
 - u. Methylene chloride.
 - v. Naphthalene.
 - w. Toluene (methylbenzene).
 - x. 1,1,1-trichloroethane.
 - y. Vinyl chloride.

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- D. Colors: As indicated in a color schedule.

2.2 PRIMERS/SEALERS

- A. Interior Latex Primer/Sealer: MPI #50.
- B. Interior Alkyd Primer/Sealer: MPI #45.

2.3 METAL PRIMERS

- A. Quick-Drying Alkyd Metal Primer: MPI #76.

2.4 LATEX PAINTS

- A. Interior Latex (Flat): MPI #53 (Gloss Level 1).

2.5 EXTERIOR/INTERIOR ALKYD FLOOR ENAMEL (Gloss): MPI #27 (Gloss Level 6).

- 1. VOC Content: E Range of E1
- 2. Additives: Manufacturer's standard additive to increase skid resistance of painted surface.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
- C. Percentages in five subparagraphs below are based on "MPI Architectural Painting Specification Manual."
 - 1. Gypsum Board: 12 percent.
- D. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- E. Begin coating application only after unsatisfactory conditions have been corrected and surfaces are dry.
 - 1. Beginning coating application constitutes Contractor's acceptance of substrates and conditions.

3.2 PREPARATION AND APPLICATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates indicated.
- B. Clean substrates of substances that could impair bond of paints, including dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and reprime substrate with compatible primers as required to produce paint systems indicated.
- C. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- D. Painting Mechanical and Electrical Work: Paint items exposed in equipment rooms and occupied spaces including, but not limited to, the following:
 - 1. Mechanical Work:
 - a. Uninsulated metal piping.
 - b. Uninsulated plastic piping.
 - c. Pipe hangers and supports.
 - d. Tanks that do not have factory-applied final finishes.
 - e. Visible portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets.
 - f. Duct, equipment, and pipe insulation having cotton or canvas insulation covering or other paintable jacket material.
 - g. Mechanical equipment that is indicated to have a factory-primed finish for field painting.
 - h. Do not paint new elevator hoist machine and related equipment
 - 2. Electrical Work:
 - a. Do not paint existing switchgear.
 - b. Do not paint existing panelboards.
 - c. Do paint electrical equipment that is indicated to have a factory-primed finish for field painting.
- E. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- F. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.3 INTERIOR PAINTING SCHEDULE

- A. Concrete Substrates, Nontraffic Surfaces:

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1. Latex System: MPI INT 3.1E.
 - a. Prime Coat: Interior latex matching topcoat.
 - b. Intermediate Coat: Interior latex matching topcoat.
 - c. Topcoat: Interior latex: flat
 2. Latex Over Sealer System: MPI INT 3.1A.
 - a. Prime Coat: Interior latex primer/sealer.
 - b. Intermediate Coat: Interior latex matching topcoat.
 - c. Topcoat: Interior latex flat
- B. Steel Substrates:
1. Latex Over Alkyd Primer System: MPI INT 5.1Q.
 - a. Prime Coat: Quick-drying alkyd metal primer.
 - b. Intermediate Coat: Interior latex matching topcoat.
 - c. Topcoat: Interior latex: flat
- C. Gypsum Board Substrates:
1. Latex System: MPI INT 9.2A.
 - a. Prime Coat: Interior latex matching topcoat.
 - b. Intermediate Coat: Interior latex matching topcoat.
 - c. Topcoat: Interior latex: flat

END OF SECTION 099123

SECTION 102600 - WALL PROTECTION

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Impact-resistant bumper rails.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Maintenance data.

1.3 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: Provide impact-resistant, plastic wall-protection units with surface-burning characteristics as determined by testing identical products per ASTM E 84, NFPA 255, or UL 723 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.

1.4 WARRANTY

- A. Provide manufacturer's standard form in which manufacturer agrees to repair or replace components of impact-resistant wall-protection units that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: (five) 5 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.

2.2 MATERIALS

- A. Wood-encased, extruded Rigid Plastic: High-impact-resistant PVC or acrylic-modified vinyl plastic with integral color throughout.

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- B. Fasteners: Aluminum, nonmagnetic stainless steel, or other noncorrosive metal; security-type where exposed to view. Do not use wall adhesive.

2.3 WALL GUARDS

- A. Bumper Rail: Heavy-duty assembly consisting of continuous snap-on wood and plastic cover installed over continuous retainer; with continuous rubber or vinyl bumper cushion(s) centered in the retainer; designed to withstand impacts.
 - 1. Basis-of-Design Product: Acrovyn: CRWS-3 (“renaissance-real-wood)
 - 2. Retainer: Minimum 0.080-inch- thick, 1-piece, extruded aluminum.
 - a. Mounting: Surface mounted directly to wall.
 - 3. End Caps and Corners: Prefabricated, injection-molded plastic; color matching cover; field adjustable for close alignment with snap-on cover.
 - 4. Accessories: Concealed splices and mounting hardware.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Complete finishing operations, including painting, before installing impact-resistant wall-protection system components.
- B. Install impact-resistant wall-protection units level, plumb, and true to line without distortions. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible in the finished Work.
 - 1. Provide splices, mounting hardware, anchors, and other accessories required for a complete installation.
- C. Immediately after completion of installation, clean plastic covers and accessories using a standard, ammonia-based, household cleaning agent.
- D. Remove excess adhesive using methods and materials recommended in writing by manufacturer.

END OF SECTION 102600

SECTION 142100 - ELECTRIC TRACTION ELEVATORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes electric traction passenger and service elevators.
- B. Related Sections include the following:
 - 1. Division 09 painting Sections for field painting of hoistway entrance doors and frames.
 - 2. Division 09 Section for finish flooring in elevator cars.
 - 3. Division 26 Sections for electrical service for elevators.
 - 4. Division 27 Section "Communications Horizontal Cabling" for telephone service for elevators.
 - 5. Division 28 Section "Access Control" for security access system equipment used to restrict elevator use.
 - 6. Division 28 Section "Fire Detection and Alarm" for smoke detectors in elevator lobbies to initiate emergency recall operation and heat detectors in shafts and machine rooms to disconnect power from elevator equipment before sprinkler activation and for connection to elevator controllers.

1.3 DEFINITIONS

- A. Definitions in ASME A17.1 apply to work of this Section.
- B. Defective Elevator Work: Operation or control system failure, including excessive malfunctions; performances below specified ratings; excessive wear; unusual deterioration or aging of materials or finishes; unsafe conditions; need for excessive maintenance; abnormal noise or vibration; and similar unusual, unexpected, and unsatisfactory conditions.
- C. Service Elevator: A freight elevator that is not used to carry passengers.

1.4 SUBMITTALS

- A. Product Data: Include capacities, sizes, performances, operations, safety features, finishes, and similar information. Include product data for the following:
 - 1. Car enclosures excluding existing hoistway entrances.
 - 2. 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 equipment and signals. Include large-scale layout of car control station and standby power operation control panel. Indicate variations from specified requirements, maximum dynamic and static loads imposed on building structure at points of support, and maximum and average power demands.
- C. Samples for Initial Selection: For finishes involving color selection.
- D. Samples for Verification: For exposed finishes of cars, hoistway doors and frames, and signal equipment; 3-inch square Samples of sheet materials; and 4-inch 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, as shown and specified, are adequate for elevator system being provided.
- F. Qualification Data: For Installer.
- G. Operation and Maintenance Data: For elevators to include in emergency, operation, and maintenance manuals.
 - 1. In addition to items specified in Division 01 Section "Operation and Maintenance Data," include diagnostic and repair information available to manufacturer's and Installer's maintenance personnel.
- H. Inspection and Acceptance Certificates and Operating Permits: As required by authorities having jurisdiction for normal, unrestricted elevator use.
- I. Warranty: Special warranty specified in this Section.
- J. Continuing Maintenance Proposal: Service agreement specified in this Section.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Elevator manufacturer or manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
- B. Source Limitations: Obtain elevators through one source from a single manufacturer.
 - 1. Provide major elevator components, including driving machines, controllers, signal fixtures, door operators, car frames, cabs, and entrances, manufactured by a single manufacturer.
- C. Regulatory Requirements: Comply with ASME A17.1 and elevator design requirements for earthquake loads in ASCE 7.
 - 1. Effective peak velocity acceleration (A_v) for Project's location is greater than or equal to 0.20 (seismic risk zones 3 and 4).
 - 2. Provide earthquake equipment required by ASME A17.1.
 - 3. Design earthquake spectral response acceleration, short period (Sds) for Project is 0.5g.

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4. Project's seismic design category is D.
5. Elevator importance factor is 1.5.

- D. Accessibility Requirements: Comply with Section 4.10 in the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA, Accessibility Guidelines for Buildings and Facilities (ADAAG).
- E. Fire-Rated Hoistway Entrance Assemblies: Door and frame assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing at as close to neutral pressure as possible according to NFPA 252 and UBC Standard 7-2.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle materials, components, and equipment in manufacturer's protective packaging.
- B. Store materials, components, and equipment off of ground, under cover, and in a dry location. Handle according to manufacturer's written recommendations to prevent damage, deterioration, or soiling.

1.7 COORDINATION

- A. Coordinate installation of sleeves, block outs, elevator equipment with integral anchors, and other items that are embedded in concrete or masonry for elevator equipment. Furnish templates, sleeves, elevator equipment with integral anchors, and installation instructions and deliver to Project site in time for installation.
- B. Coordinate sequence of elevator installation with other work to avoid delaying the Work.
- C. Coordinate locations and dimensions of other work relating to electric traction elevators including pit ladders, sumps, and floor drains in pits; entrance subsills; machine beams; and electrical service, electrical outlets, lights, and switches in pits and machine rooms.

1.8 WARRANTY

- A. Special Manufacturer's Warranty: Manufacturer's standard form in which manufacturer agrees to repair, restore, or replace defective elevator work within specified warranty period.
 1. Warranty Period: For each elevator, as they are turned over in sequence to the Owner, provide a one-year warranty from the date of Substantial Completion of that elevator.

1.9 MAINTENANCE SERVICE

- A. Initial Maintenance Service: Beginning at Substantial Completion of each elevator, provide one year's full maintenance service by skilled employees of elevator Installer. Include monthly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper elevator operation at rated speed and capacity.

Provide parts and supplies same as those used in the manufacture and installation of original equipment.

1. Perform maintenance, including emergency callback service, during normal working hours.
2. Include 24-hour-per-day, 7-day-per-week emergency callback service.
 - a. Response Time: Two hours or less.

B. Continuing Maintenance Requirement: See specification section 142350.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 1. Kone Inc.
 2. Otis Elevator Co.
 3. ThyssenKrupp Elevator.

2.2 SYSTEMS AND COMPONENTS

- A. General: Provide manufacturer's standard elevator systems. Where components are not otherwise indicated, provide standard components published by manufacturer as included in standard pre-engineered elevator systems and as required for complete system.
- B. Elevator Machines: At manufacturer's option, provide either variable-voltage, variable-frequency, ac-type or variable-voltage, dc-type hoisting machines. Provide solid-state power converters.
 1. Provide nonregenerative system.
 2. Limit total harmonic distortion of regenerated power to 5 percent per IEEE 519.
 3. Provide means for absorbing regenerated power when elevator system is operating on standby power.
 4. Provide line filters or chokes to prevent electrical peaks or spikes from feeding back into building power system.
- C. Fluid for Oil Buffers: If oil buffers are used, use only fire-resistant hydraulic fluid containing antioxidant, anticorrosive, antifoaming, and metal-passivating additives.
 1. Available Product: Subject to compliance with requirements, a product that may be incorporated into the Work includes, but is not limited to, "Hydro Safe (FR)" by Hydro Safe Oil Division, Inc.

- D. Inserts: Furnish required concrete and masonry inserts and similar anchorage devices for installing guide rails, machinery, and other components of elevator work where installation of devices is specified in another Section.
- E. Machine Beams: Re-use existing framing to support elevator hoisting machine and deflector sheaves from the building structure.
- F. Car Frame and Platform: Re-use existing welded steel units.
- G. Guides: Provide new roller guides at top and bottom of car and counterweight frames.

2.3 OPERATION SYSTEMS

- A. General: Provide manufacturer's standard microprocessor operation system for each elevator as required to provide type of operation system indicated.
- B. Group Automatic Operation with Demand-Based Dispatching: Provide reprogrammable group automatic system that assigns cars to hall calls based on a dispatching program designed to minimize passenger waiting time. System automatically adjusts to changes in demand for different traffic conditions including heavy incoming, heavy two-way, heavy outgoing, and light off-hours as variations of normal two-way traffic.
 - 1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Kone Inc.; KCM 831.
 - b. Otis Elevator Co.; Elevonic.
 - c. ThyssenKrupp Elevator; Traflomatic.
- C. Single-Car Auxiliary Operations: In addition to primary operation system features, provide the following operational features for each passenger elevator:
 - 1. Standby Power Operation: On activation of standby power, car is returned to a designated floor and parked with doors open. Car can be manually put in service on standby power, either for return operation or for regular operation, by switches in control panel located at fire command station. Manual operation causes automatic operation to cease.
 - 2. Standby Powered Lowering: On activation of standby power, if car is at a floor, it remains at that floor, opens its doors, and shuts down. If car is between floors, it is lowered to the next floor below, opens its doors, and shuts down.
 - 3. Battery-Powered Lowering: If power fails and car is at a floor, it remains at that floor, opens its doors, and shuts down. If car is between floors, it is lowered to the next floor below, opens its doors, and shuts down. System includes rechargeable battery and automatic recharging system.
 - 4. Automatic Dispatching of Loaded Car: When car load exceeds 80 percent of rated capacity, doors will begin closing.
 - 5. Nuisance Call Cancel: When car calls exceed a preset number while car load is less than a predetermined weight, all car calls are canceled. Preset number of calls and predetermined weight can be adjusted.

- D. Security Features: Provide the following security features, where indicated. Security features shall not affect emergency firefighters' service.
1. Card-Reader Operation: At each passenger elevator, provide card readers at car control stations and at hall push-button stations to authorize calls. Security system determines which landings and at what times calls require authorization by card reader. Provide required conductors in traveling cable and panel in machine room for interconnecting card readers, other security access system equipment, and elevator controllers. Provide stripe-swipe card reader integral with each car control station.
 - a. Security access system equipment is specified in Division 28 Section "Access Control."
 2. Keyswitch Operation: Push buttons are activated and deactivated by security keyswitches at car control stations and at hall push-button stations. Key is removable only in deactivated position.
 3. Keypad Operation: Allows each landing to be restricted or unrestricted. When a restricted landing button is pressed, a "Restricted Floor" lamp lights and remains lit until landing access code has been entered into a keypad or predetermined time period has elapsed. Car calls for restricted landings do not register until landing access code is entered into keypad within predetermined time period after landing button is pressed.
 - a. Access codes are programmed at each car operating panel using a security keyswitch. Keypad operation can be activated and deactivated by security keyswitch at main landing.
 4. Car-to-Lobby Feature: Feature, activated by keyswitch at main lobby, that causes car to return immediately to lobby and open doors for inspection. On deactivation by keyswitch, calls registered before keyswitch activation are completed and normal operation is resumed.

2.4 DOOR REOPENING DEVICES

- A. Infrared Array: Provide door reopening devices with uniform array of 36 or more microprocessor-controlled, infrared light beams projecting across car entrance. Interruption of one or more of the light beams shall cause doors to stop and reopen.
- B. Nudging Feature: 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.

2.5 FINISH MATERIALS

- A. General: Provide the following materials for exposed parts of elevator car enclosures, car doors, hoistway entrance doors, and signal equipment as indicated.
- B. Stainless-Steel Sheet: ASTM A 240/A 240M, Type 304.
- C. Stainless-Steel Bars: ASTM A 276, Type 304.

- D. Stainless-Steel Tubing: ASTM A 554, Grade MT 304.
- E. Plastic Laminate: High-pressure type complying with NEMA LD 3, Type HGS for flat applications and Type BKV for panel backing.

2.6 CAR ENCLOSURES

- A. General: At each passenger elevator, listed car enclosures to receive removable wall panels, with removable car roof, access doors, power door operators, and ventilation.
- B. Materials and Finishes: Provide manufacturer's standards, but not less than the following:
 - 1. Subfloor: Underlayment grade, exterior plywood, 5/8-inch nominal thickness.
 - 2. Floor Finish: Carpet is specified in a Division 09 Section.
 - 3. Stainless-Steel Upper Wall Panels: Flush, hollow-metal construction; fabricated from stainless-steel sheet.
 - 4. Plastic-Laminate Lower Wall Panels: Plastic laminate adhesively applied to manufacturer's standard honeycomb core with plastic-laminate panel backing and manufacturer's standard protective edge trim. Panels have a flame-spread index of 75 or less, when tested according to ASTM E 84. Plastic-laminate color, texture, and pattern as selected by Architect from plastic-laminate manufacturer's full range.
 - 5. Fabricate car with recesses and cutouts for signal equipment.
 - 6. Fabricate car door frame integrally with front wall of car.
 - 7. Stainless-Steel Doors: Flush, hollow-metal construction; fabricated from stainless-steel sheet.
 - 8. Sight Guards: Provide sight guards on car doors.
 - 9. Sills: Re-use existing extruded metal sills.
 - 10. Ceiling: Two flush stainless steel #4 panels, with six low-voltage down lights in each panel. Align ceiling panel joints in center of ceiling area.
 - 11. Handrails: Re-use existing stainless steel standard handrails.

2.7 HOISTWAY ENTRANCES

- A. General: Provide manufacturer's standard horizontal-sliding, door hoistway entrances complete with track systems, hardware, and accessories. Re-use existing in-place door frames.
- B. Materials and Fabrication: Provide manufacturer's standards, but not less than the following:
 - 1. Stainless-Steel Doors: Flush, hollow-metal construction; fabricated from stainless-steel sheet.
 - 2. Sight Guards: Provide sight guards on doors matching door edges.
 - 3. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107.

2.8 SIGNAL EQUIPMENT

- A. General: Provide hall-call and car-call buttons that light when activated and remain lit until call has been fulfilled. Fabricate lighted elements with LEDs.

- B. General: Provide signal equipment designed for destination-based system. Fabricate lighted elements with LEDs.
- C. Car Control Stations: Provide manufacturer's standard recessed car control stations. Mount in return panel adjacent to car door, unless otherwise indicated.
- D. Emergency Communication System: 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)." On activation, system dials preprogrammed number of monitoring station and identifies elevator location to monitoring station. System provides two-way voice communication without using a handset and provides visible signals that indicate when system has been activated and when monitoring station has responded. System is contained in flush-mounted cabinet, with identification, instructions for use, and battery backup power supply.
- E. Firefighters' Two-Way Telephone Communication Service: Provide flush-mounted cabinet in each car and required conductors in traveling cable for firefighters' two-way telephone communication service specified in Division 28 Section "Fire Detection and Alarm."
- F. Car Position Indicator: Provide illuminated, digital-type car position indicator, located above car door or above car control station. Also provide audible signal to indicate to passengers that car is either stopping at or passing each of the floors served.
 - 1. Include travel direction arrows if not provided in car control station.
- G. Hall Push-Button Stations: Provide one flush-mounted hall push-button station at each landing for each single elevator or group of elevators, but not less than one station for each four elevators in a group.
- H. Hall Lanterns: Units with illuminated arrows; but provide single arrow at terminal landings. Provide:
 - 1. Manufacturer's standard flush wall-mounted units, for mounting above entrance frames.
- I. Hall Annunciator: With each hall lantern, provide audible signals indicating car arrival and direction of travel. Signals sound once for up and twice for down.
 - 1. At manufacturer's option, audible signals may be placed on each car.
- J. Standby Power Elevator Selector Switches: Provide switches, as required by ASME A17.1, where indicated. Adjacent to switches, provide illuminated signal that indicates when normal power supply has failed. For each elevator, provide illuminated signals that indicate when they are operational and when they are at the designated emergency return level with doors open.
- K. Fire Command Center Annunciator Panel: Update existing position indicators for each elevator, clearly labeled with elevator designation; include illuminated signal that indicates when elevator is operational and when it is at the designated emergency return level with doors open. Update existing standby power elevator selector switch(es), as required by ASME A17.1, adjacent to position indicators. Provide illuminated signal that indicates when normal power supply has failed.

- L. Corridor Call Station Pictograph Signs: Provide signs matching hall push-button stations, with text and graphics as required by authorities having jurisdiction, indicating that in case of fire elevators are out of service and exits should be used instead. Provide one sign at each hall push-button station, unless otherwise indicated.

2.9 ELEVATORS

A. Passenger elevator Description:

1. Elevator Number(s): 1, 2 and 3.
2. Type: Geared traction.
3. Machine Location for 1, 2 and 3: Machine room is above all 3 hoistways.
4. Machine location for #4: Machine room is next to hoistway.
5. Rated Load for passenger elevators: 2500 lb
6. Type Class: Class A.
7. Rated Speed: 350 fpm
8. Operation System: Group automatic operation with demand-based dispatching.
9. Auxiliary Operations:
 - a. Standby power operation.
 - b. Standby powered lowering.
 - c. Earthquake Emergency Operation: Comply with requirements in ASME A17.1.
 - d. Automatic dispatching of loaded car.
 - e. Nuisance call cancel.
 - f. Independent service for service elevator.
 - g. Loaded-car bypass.
 - h. Distributed parking.

Security Features: Card-reader operation. See electrical drawings

10. Car Enclosures: Field measure existing conditions.
 - a. Front Walls (Return Panels): Satin stainless steel, No. 4 finish.
 - b. Car Fixtures: Satin stainless steel, No. 4 finish.
 - c. Side and Rear Wall Panel Upper panels: Satin stainless steel, No. 4 finish and Lower Wall panels of Wilsonart 7062-60 "Congo spruce" HPL panels.
 - d. Reveals: Enameled steel painted flat black.
 - e. Door Faces (Interior): Satin stainless steel, No. 4 finish.
 - f. Door Sills: Re-use existing sills.
 - g. Ceiling: Satin stainless steel, No. 4 finish.
 - h. Handrails: Re-install existing handrails
 - i. Floor prepared to receive carpet (specified in Division 09 Section "Tile Carpeting").
11. Hoistway Entrances: Re-use existing frames. Copy and edit subparagraph below to suit Project.
12. Hall Fixtures (typical at all floors): Satin stainless steel, No. 4 finish. Recessed type with no exposed-metal surfaces.

13. Additional Requirements:

- a. Provide inspection certificate in each car, mounted under acrylic cover with frame made from satin stainless steel, No. 4 finish.
- b. Provide blanket hooks in car #1 and (one) complete set of full-height protective blankets.

B. Service elevator Description:

1. Elevator Number 4. Provide new car and equipment as listed below.
2. Type: Replace existing Gillespie Basement Drum machine.
3. Floor Served: Basement and Main Floor dock.
4. Machine location for #4: Machine room is next to hoistway.
5. Hoist Machine: Provide new (compatible with existing electrical power and hoistway).
6. Rated Load for service elevators: 2000 lb @ 50 fpm
7. Type Class: Vertical bi-parting Class A.
8. Rated Speed: 50 fpm
9. Operation System: Automatic push button.
10. Power Conversion: AC
11. Operational Control: Relay
12. Governor and safety: instantaneous.
13. Door Operator: Manual with pull strap.
14. Door Reversal System: none
15. Buffers: none
16. Landing System: hatch switches.
17. Auxiliary Operations: Provide
 - a. Standby powered lowering.
 - b. Earthquake Emergency Operation: Comply with requirements in ASME A17.1.
 - c. Independent service for service elevator.
 - d. Security Features: Provide manufacturer's standard overload notification.
 - e. Phase 1 fire service: none
18. Car Enclosure: Field measure existing conditions to provide new,
 - a. Shell: steel, prime painted.
 - b. Walls: sheet aluminum plate (left, right and rear walls).
 - c. Car Door (interior): Vertical lift perforated aluminum plate.
 - d. Front returns: none
 - e. Door Sills: Re-use existing sills.
 - f. Ceiling: Perforated aluminum plate.
 - g. Lighting: protected, recessed fluorescent.
 - h. Bumper rails: Provide wood bumpers as detailed or similar manufacturer's standard replaceable bumper rails.
 - i. Floor: Solid aluminum mfr's standard checker plate or "diamond" plate.
 - j. Telephone and telephone cabinet: no.
19. Hoistway Entrances: Re-use and re-paint existing steel frames and bi-parting doors.
 - a. Access Means: Provide new pull strap at each set of doors.

Hall Fixtures:

- a. Hall lanterns: none

- b. Hall position indicators: none.

20. Additional Requirements:

- a. Provide inspection certificate in service car, mounted under acrylic cover with frame made from satin stainless steel, No. 4 finish.

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. 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.
 - 1. For the record, prepare a written report, endorsed by Installer, listing dimensional discrepancies and conditions detrimental to performance or indicating that dimensions and conditions were found to be satisfactory.
 - 2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Schedule each elevator installation in close coordination with Owner and with specification section 011000, Summary. Comply with Work Phases, section 011000, part 1.3, since only one elevator at a time may be taken out of service.
- B. Comply with manufacturer'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 designed to minimize transmission of vibrations to structure and thereby minimize structure-borne noise from elevator system.
- E. Lubricate operating parts of systems, including ropes, as recommended by manufacturers.
- F. Alignment: Coordinate installation of hoistway entrances with installation of elevator guide rails for accurate alignment of entrances with car. Where possible, delay final adjustment of sills and doors until car is operable in shaft. Reduce clearances to minimum, safe, workable dimension at each landing.
- G. Leveling Tolerance: 1/8 inch, up or down, regardless of load and direction of travel.

- H. If required, adjust existing sills flush with finished floor surface at landing. Fill space under sill solidly with nonshrink, nonmetallic grout.
- I. Locate hall signal equipment for elevators as follows, unless otherwise indicated:
 - 1. For groups of elevators, locate hall push-button stations between two elevators at center of group or at location most convenient for approaching passengers. Use existing locations as much as possible, but meeting ADA height requirements. Patch wall opening where necessary to a paint-ready condition.
 - 1. Mount hall lanterns at existing locations each hoistway entrance but not less than a minimum of 72 inches above finished floor. Patch wall opening where necessary to a paint-ready condition.

3.3 FIELD QUALITY CONTROL

- A. Acceptance Testing: On completion of elevator installation and before permitting use (either temporary or permanent) of elevators, perform acceptance tests as required and recommended by ASME A17.1 and by governing regulations and agencies.
- B. Operating Test: Load each elevator to rated capacity and operate continuously for 30 minutes over full travel distance, stopping at each level and proceeding immediately to the next. Record temperature rise of elevator machine during 30-minute test period. Record failure to perform as required.
- C. Advise Owner, Architect, and authorities having jurisdiction in advance of dates and times tests are to be performed on each elevator.

3.4 PROTECTION and SERVICE

- A. Temporary Use: Limit temporary use for construction purposes to only one elevator at a time which is approved in advance by the Owner. Comply with the following requirements for that one elevator used for construction purposes:
 - 1. Provide car with temporary enclosure, either within finished car or in place of finished car, to protect finishes from damage.
 - 2. Provide padded wood bumpers on entrance door frames covering jambs and frame faces.
 - 3. Provide other protective coverings, barriers, devices, signs, and procedures as needed to protect elevator and elevator equipment.
 - 4. Do not load elevators beyond their rated weight capacity.
 - 5. From date of Notice to Proceed, engage elevator Installer to provide full maintenance service for all elevators. Include preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as necessary for proper elevator operation at rated speed and capacity. Provide parts and supplies same as those used in the manufacture and installation of original equipment.
 - 6. Engage elevator Installer to restore damaged work, if any, so no evidence remains of correction. Return items that cannot be refinished in the field to the shop, make required repairs and refinish entire unit, or provide new units as required.

3.5 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to operate, adjust, and perform minor maintenance on each elevator. Refer to Division 01 Section "Operation and Maintenance Data."
- B. Check operation of each elevator with Owner's personnel present and before date of Substantial Completion. Determine that operation systems and devices are functioning properly.
- C. Check operation of each elevator with Owner's personnel present not more than one month before end of warranty period. Determine that operating systems and devices are functioning properly.

3.6 ITEMIZATION OF WORK

General:

Scope of Work

1. Elevator #1

A. Provide and install new:

- a. Solid state drive with VVVF AC function.
- b. Controller
- c. Encoder
- d. Group controller
- e. Governor
- f. Governor rope
- g. Wiring
- h. Rope gripper
- i. Lights (provide new florescent lamps)
- j. Disconnect switch, shunt trip type
- k. Counterweight guide shoes
- l. Norman and final terminal devices
- m. Wiring and traveling cables
- n. Stop switches
- o. Light switch
- p. Electrical outlets. Provide with GFCI
- q. Guide shoes with minimum 8" rollers and seismic retainer plates
- r. Toe guard meeting Code
- s. Door hangers and rollers
- t. Door clutch
- u. Door operator, closed loop type
- v. Door contact switch
- w. Top control station
- x. Work light and receptacle (GFCI type)
- y. Car ceiling: 12-light LV stainless steel lay-in panel ceiling system
- z. Ventilation blower

- aa. Car wall panels. See specifications for type and color.
- bb. Car flooring
- cc. Hall push button sets
- dd. In-car illuminated alarm buttons
- ee. Main car station
- ff. Communication system wiring
- gg. Key card access to lock-off floors
- hh. Car position indicator in each car with audible signal or voice announcing of floor at which car is stopping and travel direction.
- ii. Hall position indicator with lanterns at Main Lobby
- jj. Wall panels as specified
- kk. Control Panel shall include at the top, one 10” wide x 8” high removable stainless steel cover plate with flat black-painted back box for future CCTV camera. Also provide tinted “Lexan” window in stainless steel frame for Owner’s use when cameras are installed.

B. Recondition existing:

- a. Hoist machine, BUT add new AC motor
- b. Car buffer
- c. Counterweight buffer
- d. Hanger rollers, as required
- e. Closers, as required
- f. relating mechanism, as required
- g. Interlocks
- h. Hall lanterns with new LED and electronic chimes

C. Retain existing:

- a. Hoist ropes
- b. Support beams and tie downs
- c. Sleeves and guards
- d. Access
- e. Ventilation
- f. Sprinkler system
- g. Smoke detectors
- h. Ladders
- i. Main guide rails
- j. Counterweight guide rails
- k. Deflector sheaves
- l. Counterweight frame
- m. Ventilation
- n. Enclosure
- o. Smoke detectors
- p. Ladders
- q. Governor tension sheave
- r. Hoistway door frames
- s. Door panels
- t. Sight guards
- u. Astragals
- v. Sills

- w. Sill supports
- x. Fascia
- y. Toe guard
- z. Dust covers
- aa. Struts and headers
- bb. Hanger and tracks
- cc. Access
- dd. Floor identification
- ee. Car frame
- ff. Car platform
- gg. Safety devices
- hh. Car isolation
- ii. Car sills
- jj. Fireproofing
- kk. Car doors
- ll. Car door tracks
- mm. Car door header
- nn. Car door restrictor
- oo. Emergency lighting
- pp. Access switches
- qq. Signaling devices (alarm bell)
- rr. Car handrails

D. Machine Room:

- 1. Clean motor and generator fields and brush holders to remove carbon dust build-up

E. Hoistway:

- 1. Clean and lubricate car and hoistway door equipment to provide smooth, quiet operation.
- 2. Patch cut-out section of gypsum board on rear hoistway wall.
- 3. Replace broken limit switch arm in hoistway.

F. Pit:

- 1. Clean elevator pit and remove accumulated trash.

G. Performance:

- 1. Restore actual elevator speed in both directions to within 5% of rated speed. (Measured up speed is 327 fpm, down speed is 327 fpm. Rated speed is 350 fpm).
- 2. Adjust door opening time to +/-12.5 seconds. (Measured time is 3.0 seconds).
- 3. Adjust interrupted ray time to a minimum of 3.0 seconds. (Measured time is 2.5 seconds).

H. Equipment:

- 1. Provide and install telephone identification and equipment. Compartment cover shall be opened easily and not require tight grasping, pinching or twisting. Include building name, address, elevator number, dialing instructions and emergency telephone number.
- 2. Provide and install an in-car stop switch, keyed or in a lockable cabinet.
- 3. Modify existing “Silent Knight” fire alarm panel to include an elevator selector switch and comply with IBC 3003.1.3, 3003.2, NFPA 72 6.16.3 and 6.16.4 and ANSI A17.1.

2. **Elevator #2**

A. Provide and install new:

- a. Solid state drive with VVVF AC function.

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- b. Controller
- c. Encoder
- d. Group controller
- e. Governor
- f. Governor rope
- g. Wiring
- h. Rope gripper
- i. Lights (provide new fluorescent lamps)
- j. Disconnect switch, shunt trip type
- k. Counterweight guide shoes
- l. Norman and final terminal devices
- m. Wiring and traveling cables
- n. Stop switches
- o. Light switch
- p. Electrical outlets. Provide with GFCI
- q. Guide shoes with minimum 8” rollers and seismic retainer plates
- r. Toe guard meeting Code
- s. Door hangers and rollers
- t. Door clutch
- u. Door operator, closed loop type
- v. Door contact switch
- w. Top control station
- x. Work light and receptacle (GFCI type)
- y. Car ceiling: 12-light LV stainless steel lay-in panel ceiling system.
- z. Ventilation blower
- aa. Car wall panels. See specifications for type and color.
- bb. Car handrails. See specifications for type, size and material.
- cc. Car flooring
- dd. Hall push button sets
- ee. In-car illuminated alarm buttons
- ee. Main car station
- ff. Communication system wiring
- gg. Key card access to lock-off floors
- hh. Car position indicator in each car with audible signal or voice announcing of floor at which car is stopping and travel direction.
- ii. Hall position indicator with lanterns at Main Lobby
- jj. Wall panels as specified.
- kk. Control Panel shall include at the top, one 10” wide x 8” high removable stainless steel cover plate with flat black-painted back box for future CCTV camera. Also provide tinted “Lexan” window in stainless steel frame for Owner’s use when cameras are installed.

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- B. Recondition existing:
 - a. Hoist machine, BUT add new AC motor
 - b. Car buffer
 - c. Counterweight buffer
 - d. Hanger rollers, as required
 - e. Closers, as required
 - f. relating mechanism, as required
 - g. Interlocks
 - h. Hall lanterns with new LED and electronic chimes

- C. Retain existing:
 - a. Hoist ropes
 - b. Support beams and tie downs
 - c. Sleeves and guards
 - d. Access
 - e. Ventilation
 - f. Sprinkler system
 - g. Smoke detectors
 - h. Ladders
 - i. Main guide rails
 - j. Counterweight guide rails
 - k. Deflector sheaves
 - l. Counterweight frame
 - m. Ventilation
 - n. Enclosure
 - o. Smoke detectors
 - p. Ladders
 - q. Governor tension sheave
 - r. Hoistway door frames
 - s. Door panels
 - t. Sight guards
 - u. Astragals
 - v. Sills
 - w. Sill supports
 - x. Fascia
 - y. Toe guard
 - z. Dust covers
 - aa. Struts and headers
 - bb. Hanger and tracks
 - cc. Access
 - dd. Floor identification
 - ee. Car frame
 - ff. Car platform
 - gg. Safety devices
 - hh. Car isolation
 - ii. Car sills
 - jj. Fireproofing
 - kk. Car doors
 - ll. Car door tracks

- mm. Car door header
 - nn. Car door restrictor
 - oo. Emergency lighting
 - pp. Access switches
 - qq. Signaling devices (alarm bell)
 - rr. Car handrails
- D. Machine Room:
- 1. Clean motor and generator fields and brush holders to remove carbon dust build-up.
- E. Hoistway:
- 1. Clean and lubricate car and hoistway door equipment to provide smooth, quiet operation.
- F. Pit:
- 1. Clean elevator pit and remove accumulated trash.
- G. Performance:
- 1. Restore actual elevator speed in both directions to within 5% of rated speed. (Measured up speed is 328 fpm, down speed is 330 fpm. Rated speed is 350 fpm).
 - 2. Adjust floor-to-floor performance time in both directions to between 9 and 10 seconds. (Measured up time is 10.4 seconds; down time is 10.5 seconds).
 - 3. Adjust interrupted ray time to a minimum of 3.0 seconds. (Measured time is 1.8 seconds).
 - 4. Adjust long door hold open time (time door remains open in response to hall call) to about 5 seconds. (Measured time is 3.6 seconds).
- H. Equipment:
- 1. Provide and install telephone identification and equipment. Compartment cover shall be opened easily and not require tight grasping, pinching or twisting. Include building name, address, elevator number, dialing instructions and emergency telephone number.
 - 2. Provide and install an in-car stop switch, keyed or in a lockable cabinet.
 - 3. Modify existing “Silent Knight” fire alarm panel to include an elevator selector switch and comply with IBC 3003.1.3, 3003.2, NFPA 72 6.16.3 and 6.16.4 and ANSI A17.1.
3. **Elevator #3**
- A. Provide and install new:
- a. Solid state drive with VVVF AC function.
 - b. Controller
 - c. Encoder
 - d. Group controller
 - e. Governor
 - f. Governor rope
 - g. Wiring
 - h. Rope gripper
 - i. Lights (provide new fluorescent lamps)
 - j. Disconnect switch, shunt trip type
 - k. Counterweight guide shoes
 - l. Norman and final terminal devices
 - m. Wiring and traveling cables

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- n. Stop switches
 - o. Light switch
 - p. Electrical outlets. Provide with GFCI
 - q. Guide shoes with minimum 8” rollers and seismic retainer plates
 - r. Toe guard meeting Code
 - s. Door hangers and rollers
 - t. Door clutch
 - u. Door operator, closed loop type
 - v. Door contact switch
 - w. Top control station
 - x. Work light and receptacle (GFCI type)
 - y. Car ceiling: 12-light LV stainless steel lay-in panel ceiling system
 - z. Ventilation blower
 - aa. Car wall panels. See specifications for type and color.
 - bb. Car flooring
 - dd. Hall push button sets
 - ee. In-car illuminated alarm buttons
 - ff. Main car station
 - gg. Communication system wiring
 - hh. Key card access to lock-off floors
 - ii. Car position indicator in each car with audible signal or voice announcing of floor at which car is stopping and travel direction.
 - jj. Hall position indicator with lanterns at Main Lobby
 - kk. Wall panels as specified
 - ll. Control Panel shall include at the top, one 10” wide x 8” high removable stainless steel cover plate with flat black-painted back box for future CCTV camera. Also provide tinted “Lexan” window in stainless steel frame for Owner’s use when cameras are installed.
- B. Recondition existing:
- a. Hoist machine, BUT add new AC motor
 - b. Car buffer
 - c. Counterweight buffer
 - d. Hanger rollers, as required
 - e. Closers, as required
 - f. relating mechanism, as required
 - g. Interlocks
 - h. Hall lanterns with new LED and electronic chimes
- C. Retain existing:
- a. Hoist ropes
 - b. Support beams and tie downs
 - c. Sleeves and guards
 - d. Access
 - e. Ventilation
 - f. Sprinkler system

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- g. Smoke detectors
 - h. Ladders
 - i. Main guide rails
 - j. Counterweight guide rails
 - k. Deflector sheaves
 - l. Counterweight frame
 - m. Ventilation
 - n. Enclosure
 - o. Smoke detectors
 - p. Ladders
 - q. Governor tension sheave
 - r. Hoistway door frames
 - s. Door panels
 - t. Sight guards
 - u. Astragals
 - v. Sills
 - w. Sill supports
 - x. Fascia
 - y. Toe guard
 - z. Dust covers
 - aa. Struts and headers
 - bb. Hanger and tracks
 - cc. Access
 - dd. Floor identification
 - ee. Car frame
 - ff. Car platform
 - gg. Safety devices
 - hh. Car isolation
 - ii. Car sills
 - jj. Fireproofing
 - kk. Car doors
 - ll. Car door tracks
 - mm. Car door header
 - nn. Car door restrictor
 - oo. Emergency lighting
 - pp. Access switches
 - qq. Signaling devices (alarm bell)
 - rr. Car handrails
- D. Machine Room:
- a. Clean motor and generator fields and brush holders to remove carbon dust build-up.
- E. Hoistway:
- a. Clean and lubricate car and hoistway door equipment to provide smooth, quiet operation. Replace any worn rollers.
- F. Pit:
- a. Clean elevator pit and remove accumulated trash.
- G. Performance:
- a. Restore actual elevator speed in both directions to within 5% of rated speed. (Measured up speed is 311 fpm, down speed is 315 fpm. Rated speed is 350 fpm).

- b. Adjust floor-to-floor performance time in both directions to between 9 and 10 seconds. (Measured up time is 12.5 seconds; down time is 12.7 seconds).
 1. Adjust hold open time when door detector interrupted as doors are opening to a minimum of 3 seconds.
 4. Adjust door closing time to 3.4 seconds. (Measured time is 4.5 seconds).
- H. Car enclosure:
1. Replace missing Braille plate for alarm button.
 2. Provide door opening button matching other buttons.
 3. Remove duct tape closure on car top vent.
- I. Equipment:
1. Provide and install telephone identification and equipment. Compartment cover shall be opened easily and not require tight grasping, pinching or twisting. Include building name, address, elevator number, dialing instructions and emergency telephone number.
 2. Provide and install an in-car stop switch, keyed or in a lockable cabinet.
 3. Modify existing “Silent Knight” fire alarm panel to include an elevator selector switch and comply with IBC 3003.1.3, 3003.2, NFPA 72 6.16.3 and 6.16.4 and ANSI A17.1.
4. **Elevator #4 (service):**
- A. Provide and install new replacement service elevator as follows:
 - a. See paragraph 2.9.B above and as follows:
 - B. Recondition existing:
 - a. Bi-parting hoistway doors and door components.
 - C. Retain existing:
 - a. Hoistway door frames
 - b. Bi-parting hoistway doors and door components.
 - c. Guide rails
 - D. Machine Room:
 - a. Install missing electrical box cover
 - E. Hoistway:
 - a. Clean and lubricate car and hoistway door equipment to provide smooth, quiet operation.
 - F. Pit:
 - a. Clean elevator pit and remove accumulated trash.
 - G. Performance:
 - a. Provide actual elevator speed in up direction to within 10% of rated speed. (Measured up speed is 20 fpm. (Rated speed is 25 fpm).
 - H. Car Enclosure:
 - a. See 2.9.B above.
 - I. Equipment:
 - a. See 2.9.B above.

Emergency Generator:

- A. Provide additional elevator control switchgear to allow recall of all passenger elevators to main lobby. Elevator contractor shall program each passenger elevator to recall elevators one at a time and then leave one elevator in operating mode after all 3 elevators have been recalled.

END OF SECTION 142100