

INTERMOUNTAIN UTAH DIALYSIS CENTER

2511 S WEST TEMPLE
SOUTH SALT LAKE, UTAH 84115

IA 23-028 | IH #10017411

11 JULY 2024

PROJECT MANUAL DIVISIONS 00-10,12, 21-23, 26-28 AND 31-33

ADDENDUM 01



**SECTION 00 0110
TABLE OF CONTENTS**

LEGEND

FIRST COLUMN: DATE OF LATEST SECTION

SECOND COLUMN: SHADED INDICATES SECTION IS INCLUDED IN CURRENT PRINTING

THIRD COLUMN: REVISION NUMBER ("0" INDICATES ORIGINAL, REVISIONS ARE NUMBERED CONSECUTIVELY)

FOURTH COLUMN: SPECIFICATION SECTION NUMBER

FIFTH COLUMN: SPECIFICATION SECTION TITLE

NOTES FOR REVISED SPECIFICATION SECTIONS

1. DELETED INFORMATION IS INDICATED BY A STRIKETHROUGH (IE, THIS IS DELETED).
2. NEW INFORMATION IS INDICATED BY A DOUBLE UNDERLINE (IE, THIS IS ADDED).
3. ALL REVISED INFORMATION IS FURTHER IDENTIFIED BY A HEAVY VERTICAL LINE TO THE RIGHT OF ALL REVISIONS IN EACH INDIVIDUAL SPECIFICATION SECTION (REFER TO HEAVY BOLD LINE TO THE RIGHT FOR AN EXAMPLE).

ISSUES OF SPECIFICATION SECTIONS

DATE	DESCRIPTION
2024-06-20	BID SET
2024-07-12	ADDENDUM 01

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

2024-06-20		1	00 0101	PROJECT TITLE PAGE
2024-06-20		0	00 0103	PROJECT DIRECTORY
2024-06-20		1	00 0110	TABLE OF CONTENTS
2024-06-20		0	00 2113	AIA A701 - INSTRUCTIONS TO BIDDERS
2024-06-20		0	00 2213	SUPPLEMENTARY INSTRUCTIONS TO BIDDERS
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2024-06-20		0	00 4373	SCHEDULE OF VALUES FORM
2024-06-20		0	00 6276.13	TAX EXEMPTION CERTIFICATE
2024-06-20		0	00 7200	GENERAL CONDITIONS
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2024-06-20		0	01 2500	SUBSTITUTION PROCEDURES
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2024-06-20		0	01 5000	TEMPORARY FACILITIES AND CONTROLS
2024-06-20		0	01 6000	PRODUCT REQUIREMENTS
2024-06-20		0	01 7300	EXECUTION
2024-06-20		0	01 7419	CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
2024-06-20		0	01 7700	CLOSEOUT PROCEDURES
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2024-06-20		0	017839	PROJECT RECORD DOCUMENTS
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2024-06-20		0	01 9113	GENERAL COMMISSIONING REQUIREMENTS

DIVISION 02 - EXISTING CONDITIONS

2024-06-20		0	02 4100	DEMOLITION
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DIVISION 03 - CONCRETE

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DIVISION 04 - UNIT MASONRY

2024-06-20		1	04 2000	UNIT MASONRY
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DIVISION 05 - METALS

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2024-06-20		0	05 3100	STEEL DECKING
2024-06-20		0	05 5000	METAL FABRICATIONS

DIVISION 06 - WOOD, PLASTICS AND COMPOSITES

2024-06-20		0	06 4100	ARCHITECTURAL WOOD CASEWORK
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2024-06-20		0	08 1416	FLUSH WOOD DOORS
2024-06-20		0	08 3100	ACCESS DOORS AND PANELS
2024-07-12		0	08 3323	OVERHEAD COILING DOORS
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2024-06-20		0	08 4243	INTENSIVE CARE UNIT / CRITICAL CARE UNIT ENTRANCES
2024-06-20		0	08 4413	GLAZED ALUMINUM CURTAIN WALLS
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DIVISION 10 - SPECIALTIES

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DIVISION 21 - FIRE SUPPRESSION

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DIVISION 22 - PLUMBING

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2024-06-20		0	22 0513	COMMON MOTOR REQUIREMENTS FOR PLUMBING EQUIPMENT
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2024-06-20		0	22 0700	PLUMBING INSULATION
2024-06-20		0	22 1116	DOMESTIC WATER PIPING
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2024-06-20		0	22 1123	DOMESTIC WATER PUMPS
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2024-06-20		0	23 0515	VARIABLE FREQUENCY CONTROLLER
2024-05-24		0	23 0517	SLEEVES AND SLEEVE SEALS FOR HVAC PIPING
2024-05-24		0	23 0529	HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT
2024-06-20		0	23 0548	VIBRATION AND SEISMIC CONTROLS FOR HVAC
2024-06-20		0	23 0550	OPERATIONS AND MAINTENANCE OF HVAC SYSTEMS
2024-06-20		0	23 0553	IDENTIFICATION FOR HVAC SYSTEMS AND EQUIPMENT
2024-06-20		0	23 0593	TESTING ADJUSTING AND BALANCING FOR HVAC
2024-06-20		0	23 0713	DUCT INSULATION
2024-06-20		0	23 0719	HVAC PIPING INSULATION
2024-06-20		0	23 0900	INSTRUMENTATION AND CONTROL FOR HVAC
2024-06-20		0	23 1123	FACILITY NATURAL-GAS PIPING
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2024-06-20		0	26 0519	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
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2024-06-20		0	26 0532	CONDUIT RACEWAY
2024-06-20		0	26 0533	ELECTRICAL BOXES AND FITTINGS
2024-06-20		0	26 0548	ELECTRICAL SEISMIC CONTROL
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2024-06-20		0	26 0923	OCCUPANCY SENSORS
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2024-06-20		0	27 0553	IDENTIFICATION FOR LOW-VOLTAGE CABLES AND LABELING
2024-06-20		0	27 1100	EQUIPMENT ROOM FITTING
2024-06-20		0	27 1116	CABINETS, RACKS, FRAMES, AND ENCLOSURES
2024-06-20		0	27 1119	TERMINATION BLOCKS AND PATCH PANELS
2024-06-20		0	27 1300	BACKBONE CABLING
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DIVISION 31 - EARTHWORK

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2024-06-20		0	31 1000	SITE CLEARING
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DIVISION 32 - EXTERIOR IMPROVEMENTS

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DIVISION 33 - SITE UTILITIES

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**SECTION 04 2000
UNIT MASONRY****PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Concrete block.
- B. Mortar and grout.
- C. Reinforcement and anchorage.
- D. Flashings.
- E. Accessories.

1.02 RELATED REQUIREMENTS

- A. Section 03 2000 - Concrete Reinforcing: Reinforcing steel for grouted masonry.
- B. Section 07 9200 - Joint Sealants: Sealing control and expansion joints.

1.03 REFERENCE STANDARDS

- A. ASTM C90 - Standard Specification for Loadbearing Concrete Masonry Units; 2023.
- B. ASTM C129 - Standard Specification for Nonloadbearing Concrete Masonry Units; 2023.
- C. ASTM C270 - Standard Specification for Mortar for Unit Masonry; 2019a, with Editorial Revision.
- D. ASTM C404 - Standard Specification for Aggregates for Masonry Grout; 2024.
- E. ASTM C476 - Standard Specification for Grout for Masonry; 2020.
- F. TMS 402/602 - Building Code Requirements and Specification for Masonry Structures; 2022, with Errata (2024).

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data for masonry units, fabricated wire reinforcement, mortar, and masonry accessories.
- C. Shop Drawings: Indicate pertinent dimensions, materials, anchorage, size and type of fasteners, and accessories for brickwork support system.
 - 1. Include calculations or selections from the manufacturer's prescriptive design tables that indicate compliance with the applicable building code and project conditions.
 - 2. Include the design engineer's stamp or seal on each sheet of shop drawings.
- D. Samples: Submit two (2) samples of decorative block units to illustrate color, texture, and extremes of color range.
- E. Manufacturer's Certificate: Certify that masonry units meet or exceed specified requirements.
- F. Manufacturer's Certificate: Certify that water repellent admixture manufacturer has certified masonry unit manufacturer as an approved user of water repellent admixture in the manufacture of concrete block.
- G. Test Reports: Concrete masonry manufacturer's test reports for units with integral water repellent admixture.
- H. Designer's Qualification Statement.
- I. Manufacturer's Qualification Statement.
- J. Installer's Qualification Statement.

1.05 QUALITY ASSURANCE

- A. Comply with provisions of TMS 402/602, except where exceeded by requirements of Contract Documents.
 - 1. Maintain one copy of each document on project site.

~~B. Designer Qualifications: Perform design under direct supervision of a Professional Engineer experienced in design of this type of work and licensed in the State in which the Project is located.~~

- C. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section with minimum three years of documented experience.
- D. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.

PART 2 PRODUCTS

2.01 CONCRETE MASONRY UNITS

- A. Concrete Block: Comply with referenced standards and as follows:
1. Size: Standard units with nominal face dimensions of 16 by 8 inches (400 by 200 mm) and nominal depth of 8 inches (200 mm).
 2. Load-Bearing Units: ASTM C90, normal weight.
 - a. Hollow block, as indicated.
 - b. Exposed Faces: Special color and texture where indicated, as follows:
 - ~~c. Manufacturers:~~
 - ~~1) The Concrete Products Group; Spec Brik: www.concreteproductsgroup.com/#sle.~~
 - ~~2) Substitutions: See Section 01 6000 - Product Requirements.~~
 - ~~3. Nonloadbearing Units: ASTM C129.~~
 - ~~a. Hollow block, as indicated.~~
 - ~~b. Lightweight.~~

2.02 MORTAR AND GROUT MATERIALS

- A. Grout Aggregate: ASTM C404.

2.03 REINFORCEMENT AND ANCHORAGE

- A. Manufacturers:
1. 3GEN Masonry Products; _____: www.3genmp.com.
 2. Blok-Lok Limited; _____: www.blok-lok.com/#sle.
 3. FEROCORP Corporation; FEROCORP Thermal Tie _____: www.ferocorp.com/#sle.
 4. Hohmann & Barnard, Inc; X-Seal Anchor: www.h-b.com/#sle.
 5. TruFast Walls, a division of Altenloh, Brinck & Co. US, Inc; Thermal-Grip MVA: www.trufastwalls.com/#sle.
 6. WIRE-BOND; _____: www.wirebond.com/#sle.
 7. Substitutions: See Section 01 6000 - Product Requirements.
- B. Reinforcing Steel: Type _____, as specified in Section 03 2000; size as indicated on drawings; galvanized finish.

2.04 FLASHINGS

- A. Metal Flashing Materials:
1. Prefabricated Metal Flashing: Smooth fabricated 12 oz/sq ft (3.66 kg/sq m) stainless steel (type 304) flashing for surface mounted conditions.

2.05 ACCESSORIES

- A. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials.

2.06 MORTAR AND GROUT MIXING

- A. Mortar for Unit Masonry: ASTM C270, using the Proportion Specification.
1. Exterior, loadbearing masonry: Type S.

~~2. Exterior, non-loadbearing masonry: Type N.~~

- B. Colored Mortar: Proportion selected pigments and other ingredients to match Architect's sample, without exceeding manufacturer's recommended pigment-to-cement ratio.
- C. Grout: ASTM C476; consistency required to fill completely volumes indicated for grouting; fine grout for spaces with smallest horizontal dimension of 2 inches (50 mm) or less; coarse grout for spaces with smallest horizontal dimension greater than 2 inches (50 mm).

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field conditions are acceptable and are ready to receive masonry.
- B. Verify that related items provided under other sections are properly sized and located.
- C. Verify that built-in items are in proper location, and ready for roughing into masonry work.

3.02 PREPARATION

- A. Direct and coordinate placement of metal anchors supplied for installation under other sections.
- B. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.

3.03 COLD AND HOT WEATHER REQUIREMENTS

- A. Maintain materials and surrounding air temperature to minimum 40 degrees F (5 degrees C) prior to, during, and 48 hours after completion of masonry work.
- B. Maintain materials and surrounding air temperature to maximum 90 degrees F (32 degrees C) prior to, during, and 48 hours after completion of masonry work.

3.04 COURSING

- A. Establish lines, levels, and coursing indicated. Protect from displacement.
- B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
- C. Concrete Masonry Units:
 - 1. Bond: Running.
 - 2. Coursing: One unit and one mortar joint to equal 8 inches (200 mm).
 - 3. Mortar Joints: Concave, as new construction. Joint to match at existing wall infill area.

3.05 GROUTED COMPONENTS

- A. Lap splices ~~minimum 24 bar diameters~~ per structural drawings.
- B. Support and secure reinforcing bars from displacement. Maintain position within 1/2 inch (13 mm) of dimensioned position.
- C. Place and consolidate grout fill without displacing reinforcing.

3.06 BUILT-IN WORK

- A. As work progresses, install ~~built-in metal door frames and glazed frames and~~ other items to be built into the work and furnished under other sections.
- B. Install built-in items plumb, level, and true to line.
- C. Bed anchors of metal door and glazed frames in adjacent mortar joints. Fill frame voids solid with grout.
 - 1. Fill adjacent masonry cores with grout minimum 12 inches (300 mm) from framed openings.

3.07 TOLERANCES

- ~~A. Maximum Variation from Alignment of Columns: 1/4 inch (6 mm).~~
- B. Maximum Variation From Unit to Adjacent Unit: 1/16 inch (1.6 mm).
- C. Maximum Variation from Plane of Wall: 1/4 inch in 10 ft (6 mm/3 m) and 1/2 inch in 20 ft (13 mm/6 m) or more.

- D. Maximum Variation from Plumb: 1/4 inch (6 mm) per story non-cumulative; 1/2 inch (13 mm) in two stories or more.
- E. Maximum Variation from Level Coursing: 1/8 inch in 3 ft (3 mm/m) and 1/4 inch in 10 ft (6 mm/3 m); 1/2 inch in 30 ft (13 mm/9 m).
- F. Maximum Variation of Mortar Joint Thickness: Head joint, minus 1/4 inch, plus 3/8 inch (minus 6.4 mm, plus 9.5 mm).
- G. Maximum Variation from Cross Sectional Thickness of Walls: 1/4 inch (6 mm).

3.08 CUTTING AND FITTING

- A. Cut and fit for chases. Coordinate with other sections of work to provide correct size, shape, and location.
- B. Obtain approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.

3.09 PARGING

- A. Dampen masonry walls prior to parging.
- B. Scarify each parging coat to ensure full bond to subsequent coat.
- C. Parge masonry walls in two uniform coats of mortar to a total thickness of 3/4 inch (19 mm).
- D. Steel trowel surface smooth and flat with a maximum surface variation of 1/8 inch per foot (1 mm/m).
- E. Strike top edge of parging at 45 degrees.

3.10 CLEANING

- A. Remove excess mortar and mortar droppings.
- B. Replace defective mortar. Match adjacent work.
- C. Clean soiled surfaces with cleaning solution.
- D. Use non-metallic tools in cleaning operations.

3.11 PROTECTION

- A. Without damaging completed work, provide protective boards at exposed external corners that are subject to damage by construction activities.

END OF SECTION 04 2000

**SECTION 08 3323
OVERHEAD COILING DOORS**

PART 1 GENERAL**1.01 SECTION INCLUDES**

- A. Exterior coiling doors.
- B. Electric operators and control stations.
- C. Wiring from electric circuit disconnect to operators and control stations.

1.02 REFERENCE STANDARDS

- A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2020.
- B. ITS (DIR) - Directory of Listed Products; current edition.
- C. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum); 2020.
- D. NEMA ICS 2 - Industrial Control and Systems Controllers, Contactors and Overload Relays Rated 600 Volts; 2008 (Reaffirmed 2020).
- E. UL (DIR) - Online Certifications Directory; Current Edition.
- F. UL 325 - Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems; Current Edition, Including All Revisions.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide general construction, electrical equipment, component connections and details, and _____.
- C. Shop Drawings: Indicate pertinent dimensioning, anchorage methods, hardware locations, and installation details.
- D. Samples: Two slats to illustrating shape, color and finish texture.
- E. Manufacturer's Installation Instructions: Indicate installation sequence and procedures, adjustment and alignment procedures, and _____.
- F. Manufacturer's qualification statement.
- G. Installer's qualification statement.
- H. Maintenance Data: Indicate lubrication requirements and frequency, periodic adjustments required, and _____.
- I. Specimen warranty.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of type specified and with at least three years documented experience.
- C. Products Requiring Electrical Connection: Listed and classified by ITS (DIR), UL (DIR), or testing firm acceptable to authorities having jurisdiction as suitable for purpose specified and indicated.

1.05 WARRANTY

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. Manufacturer Warranty: Provide 5-yr's manufacturer warranty for roller shaft counterbalance assembly. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS**2.01 MANUFACTURERS**

- A. Overhead Coiling Metal Doors:
 - 1. Alpine Overhead Doors, Inc; Wind-Tite - Warehouse Door: www.alpinedoors.com/#sle.
 - 2. Amarr; Amarr 4200 Series Rolling Slat Door: www.amarr.com/commercial/#sle.
 - 3. Overhead Door Corporation; Model 610 Rolling Service Door: www.overheaddoor.com/#sle.
 - 4. Substitutions: See Section 01 6000 - Product Requirements.

2.02 COILING DOORS

- A. Exterior Coiling Doors Type ____: Steel slat curtain.
 - 1. Capable of withstanding positive and negative wind loads of 20 psf (940 Pa) without undue deflection or damage to components.
 - 2. Sandwich Slats: Manufacturer's standard, with core of foamed-in-place polyurethane insulation; minimum R-value of 4.88 (RSI-value of 0.86).
 - 3. Nominal Slat Size: 2 inches (50 mm) wide by required length.
 - 4. Finish: Anodized, color as selected by architect

2.03 MATERIALS

- A. Metal Curtain Construction: Interlocking slats.
 - 1. Curtain Bottom for Slat Curtains: Fitted with angles to provide reinforcement and positive contact in closed position.
 - 2. Weatherstripping for Exterior Doors: Moisture and rot proof, resilient type, located at jamb edges, bottom of curtain, and where curtain enters hood enclosure of exterior doors.
 - 3. Steel Slats: Minimum thickness, ____ gauge, ____ inch (____ mm); ASTM A653/A653M galvanized steel sheet.
- B. Guide Construction: Continuous, of profile to retain door in place with snap-on trim, mounting brackets of same metal.
- C. Lock Hardware:
 - 1. Cylindrical Locking Mechanism: Latchset lock cylinder, specified in Section 08 7100.
 - 2. Slide Bolt: Provide on single-jamb side, extending into slot in guides, with padlock on one side.
- D. Roller Shaft Counterbalance: Steel pipe and helical steel spring system, capable of producing torque sufficient to ensure smooth operation of curtain from any position and capable of holding position at mid-travel; with adjustable spring tension; requiring 25 lb (10 kg) nominal force to operate.

2.04 ELECTRIC OPERATION

- A. Operator, Controls, Actuators, and Safeties: Comply with UL 325; provide products listed by ITS (DIR), UL (DIR), or testing agency acceptable to authorities having jurisdiction.
 - 1. Provide interlock switches on motor operated units.
- B. Electric Operators:
 - 1. Mounting: Side mounted.
 - 2. Motor Enclosure:
 - 3. Motor Rating: 1/3 HP (250 W); continuous duty.
 - 4. Motor Voltage: 120 volts, single phase, 60 Hz.
 - 5. Motor Controller: NEMA ICS 2, full voltage, reversing magnetic motor starter.
 - 6. Controller Enclosure: NEMA 250, Type 4.
 - 7. Opening Speed: 12 inches per second (300 mm/sec).
 - 8. Brake: Manufacturer's standard type, activated by motor controller.
 - 9. Manual override in case of power failure.
 - 10. See Section 26 0583 for electrical connections.
- C. Control Station: Provide standard three button, 'Open-Close-Stop' momentary-contact control device for each operator complying with UL 325.

1. 24 volt circuit.
 2. Surface mounted, at interior door jamb.
 3. Entrapment Protection Devices: Provide sensing devices and safety mechanisms complying with UL 325.
 - a. Primary Device: Provide electric sensing edge, wireless sensing, NEMA 1 photo eye sensors, or NEMA 4X photo eye sensors as required with momentary-contact control device.
- D. Safety Edge: Located at bottom of coiling door, full width, electro-mechanical sensitized type, wired to stop and reverse door direction upon striking object, hollow neoprene covered.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that adjacent construction is suitable for door installation.
- B. Verify that electrical services have been installed and are accessible.
- C. Verify that door opening is plumb, header is level, and dimensions are correct.
- D. Notify Architect of any unacceptable conditions or varying dimensions.
- E. Commencement of installation indicates acceptance of substrate and door opening conditions.

3.02 INSTALLATION

- A. Install units in accordance with manufacturer's instructions.
- B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.
- C. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.
- D. Fit and align assembly including hardware; level and plumb, to provide smooth operation.
- E. Coordinate installation of electrical service with Section 26 0583.
- F. Complete wiring from disconnect to unit components.

3.03 CLEANING

- A. Clean installed components.
- B. Remove labels and visible markings.

END OF SECTION 08 3323

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