

A BEAZLEY ARCHITECTURE LLC
104 Dairy Lane
Broussard, Louisiana 70518

RE: THE HARVEST CENTER CHURCH
819 E SIMCOE ST.
LAFAYETTE, LOUISIANA 70501
PROJECT NO. 2025-006

Issued February 6, 2025

ADDENDUM NO. 1

This addendum shall become a permanent part of the above referenced Project and shall alter the plans and specifications as follows:

ITEM NO. 1 – SPECIFICATION SECTION 00 11 16 – INVITATION TO BID:

Paragraph 1.3 A - Revise the Pre-Bid Conference date to read:
"2/13/2026 at 10:00 a.m."

ITEM NO. 2 – SPECIFICATION SECTION 08 71 11 – DOOR HARDWARE:

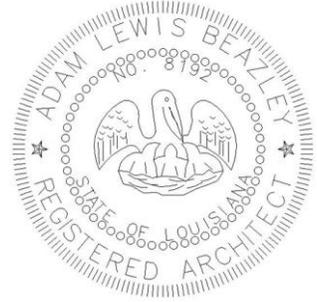
Delete this section entirely and replace with the attached section:
"08 71 11 Door Hardware (Addendum No 1)"

ITEM NO. 3 – SPECIFICATION SECTION 10 73 00 – PROTECTIVE COVERS:

Paragraph 2.1 A.1 - add the following subparagraph:
"d: East Texas Canopy, Inc."

End Addendum No. 1

SECTION 08 71 11 - DOOR HARDWARE
(Addendum No 1)



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. Section includes:
 - 1. Mechanical door hardware for the following:
 - a. Swinging doors.
 - 2. Cylinders for door hardware specified in other Sections.
 - 3. Electrified door hardware.
- B. Related Sections:
 - 1. Section 08 11 13 "Hollow Metal Doors and Frames" for door silencers provided as part of hollow-metal frames.
 - 2. Section 08 41 13 "Aluminum-Framed Entrances and Storefronts" for entrance door hardware, except cylinders.
 - 3. Section 08 14 16 "Flush Wood Doors" for Wood door requirements.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction and installation details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Shop Drawings: Details of electrified door hardware, indicating the following:
 - 1. Wiring Diagrams: For power, signal, and control wiring and including the following:
 - a. Details of interface of electrified door hardware and building safety and security systems.
 - b. Schematic diagram of systems that interface with electrified door hardware.
 - c. Point-to-point wiring.
 - d. Risers.
 - e. Elevations doors controlled by electrified door hardware.
 - 2. Operation Narrative: Describe the operation of doors controlled by electrified door hardware.
- C. Other Action Submittals:

1. Keying Schedule: Prepared by or under the supervision of Installer, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations that are coordinated with the Contract Documents.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For each type of door hardware to include in maintenance manuals. Include final hardware schedule.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Supplier of products and an employer of workers trained and approved by product manufacturers and an Architectural Hardware Consultant who is available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying.
 1. Scheduling Responsibility: Preparation of door hardware and keying schedules.
 2. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
- B. Source Limitations: Obtain each type of door hardware from a single manufacturer.
- C. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meet requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
 1. Air Leakage Rate: Maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at the tested pressure differential of 0.3 inch wg (75 Pa) of water.
- D. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- E. Means of Egress Doors: Latches do not require more than 15 lbf (67 N) to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.
- F. Accessibility Requirements: For door hardware on doors in an accessible route, comply with the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines.
 1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf (22.2 N).
 2. Comply with the following maximum opening-force requirements:
 - a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf (22.2 N) applied perpendicular to door.
 - b. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
 3. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than 1/2 inch (13 mm) high.

4. Adjust door closer sweep periods so that, from an open position of 70 degrees, the door will take at least three (3) seconds to move to a point 3 inches (75 mm) from the latch, measured to the leading edge of the door.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.
- B. Tag each item or package separately with identification coordinated with the final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.

1.7 COORDINATION

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete. Concrete, reinforcement, and formwork requirements are specified elsewhere.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.
- E. Existing Openings: Where hardware components are scheduled for application to existing construction or where modifications to existing door hardware are required, field verify existing conditions and coordinate installation of door hardware to suit opening conditions and to provide proper door operation.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. Provide door hardware for each door as scheduled on Drawings to comply with requirements in this Section.
- B. Door Hardware Sets: Provide quantity and item indicated for each hardware set scheduled in "Hardware Schedule" at the end of Part 3 and as specified in this section.
 1. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
- C. Catalog numbers indicated in these specifications are to indicate series or category of product to be used and are not intended to be complete. It shall be the responsibility of the Hardware Consultant to provide complete and accurate catalog numbers providing

the features and finishes specified and/or necessary for a complete and function hardware operation.

2.2 HINGES AND PIVOTS, GENERAL

- A. Standards: Comply with the following:
1. Butts and Hinges: BMHA A156.1.
 2. Template Hinge Dimensions: BMHA A156.7.
- B. Quantity: Provide the following, unless otherwise indicated:
1. Two (2) Hinges: For door with heights up to 60 inches.
 2. Three (3) Hinges: For doors with heights 61 to 90 inches.
 - a. Four (4) hinges for doors greater than 42 inches wide.
 3. Four (4) Hinges: For doors with heights 91 to 120 inches.
 4. For doors with heights more than 120 inches, provide four (4) hinges, plus one (1) hinge for every 30 inches of door height greater than 120 inches.
 5. Four (4) Hinges: For Dutch doors, two (2) per leaf.
- C. Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required.
1. Door Size: 36 by 96 by 1-3/4 inches; 4-1/2 inch hinge height; Standard Weight, 0.134 inch thick; Heavy Weight, 0.180 inch thick.
 2. Door Size: 42 by 96 by 1-3/4 inches; 4-1/2 inch hinge height; Standard Weight, 0.134 inch thick; Heavy Weight, 0.180 inch thick.
 3. Door Size: 48 by 120 by 1-3/4 inches; 5 inch hinge height, Standard Weight, 0.146 inch thick; Heavy Weight, 0.190 inch thick.

2.3 HINGES

- A. Hinges: BHMA A156.1. Provide template-produced hinges for hinges installed on hollow-metal doors and hollow-metal frames.
1. Manufacturers: Subject to compliance with requirements, provide products by one (1) of the following:
 - a. Ives Hardware: Basis of Design.
 - b. Equal products manufactured by McKinney may be used.
- B. Antifriction-Bearing Hinges:
1. Product: 5BB1
 2. Exposure: A5112.
 3. Mounting: Full mortise (butts).
 4. Bearing Material: Ball bearing.
 5. Grade: Grade 2 (standard weight).
 6. Base and Pin Metal:
 - a. Exterior Hinges: Stainless-steel pin body and stainless-steel pins.
 - b. Interior Hinges: Steel pin body and steel pins.

7. Finishes:
 - a. Exterior Hinges: US32D/630.
 - b. Interior Hinges: US26D/652.
 8. Pins: Non-rising loose unless otherwise indicated.
 - a. Out-swinging Exterior Doors: Non-removable.
 9. Tips: Flat button.
 10. Corners: Square.
- C. Plain-Bearing Hinges: Grade 3 (standard weight).
1. Product: 5PB1.
 2. Exposure: A8133
 3. Mounting: Full mortise (butts).
 4. Base and Pin Metal: Steel pin body and steel pins.
 5. Pins: Non-rising loose unless otherwise indicated.
 6. Tips: Flat button.
 7. Corners: Square.
 8. Finish:
 - a. Exterior Hinges: US32D/630.
 - b. Interior Hinges: US26D/652.

2.4 MECHANICAL LOCKS AND LATCHES

- A. Lock Functions: As indicated in Door Hardware Schedule.
- B. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:
 1. Bored Locks: Minimum 1/2-inch (13 mm) latchbolt throw.
- C. Lock Backset: 2-3/4 inches (70 mm), unless otherwise indicated.
 1. Levers: Cast.
 - a. Bored Locks: Monroe (MO).
 - b. Mortise Locks: Monroe (MO x CH).
 2. Escutcheons: Wrought.
 - a. Bored Locks: Standard Rose
 - b. Mortise Locks: CN, Full Face, Cold Forged Brass.
 3. Operating Device: Lever with escutcheons (Roses or Full-Faced).
- D. Strikes: Provide manufacturer's standard strike for each lock bolt or latchbolt complying with requirements indicated for applicable lock or latch and with strike box and curved lip extended to protect frame; finished to match lock or latch.
 1. Flat-Lip Strikes: For locks with three (3)-piece antifriction latchbolts, as recommended by manufacturer.
 2. Strike Box: Manufacturers standard strike/dust box matching strike plate.

- E. Bored Locks: BHMA A156.2; Grade 2; Series 4000.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one (1) of the following:
 - a. Yale: 4600 LN Series.
 - b. Equal products manufactured by Schlage may be used.
 - 2. Functions:
 - a. Passage: 4601 LN (F75).
 - b. Lockset: 4607 LN (F109).
 - c. Bath Privacy Lock: 4602 LN (F76A).
 - d. Storeroom Lock: 4605LN (F86).
 - 3. Cylinder Preparation: SFIC less core unless otherwise noted.
 - 4. Finishes: All visible lock parts and trim, US10B.
- F. Mortise Locks: BHMA A156.13; Grade 1; Series 1000.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one (1) of the following:
 - a. Yale: 8800 Series.
 - b. Equal products manufactured by Schlage may be used.
 - 2. Functions:
 - a. Storeroom Lock: 8805 (F07).
 - b. Entry Lock: 8807 (F04).
 - 3. Finishes: All visible lock parts and trim, US32D/630.

2.5 FLUSH BOLTS

- A. Manual Flush Bolts: BHMA Grade 1.
 - 1. Type: Lever extension flush bolt.
 - 2. Quantity: Two (2) per leaf.
 - 3. Accessories: Provide rods, brackets, guides and strikes.
 - a. 12 inch rod length at bottom of doors.
 - b. 29 inch rod length at top of door.
 - c. Dustproof strikes at floor strikes.
 - 4. Base Material: Extruded brass.
 - 5. Finish: 26D.
 - 6. Style: Rockwood 550.

2.6 EXIT DEVICES AND AUXILIARY ITEMS

- A. Exit Devices and Auxiliary Items: BHMA A156.3. Grade 1.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one (1) of the following:

- a. Von Duprin: 98 Series.
 - b. Substitutions will not be allowed.
- B. Panic Exit Devices: Listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305.
- C. Fire Exit Devices: Devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252.
- D. Exit Device Type 2 - Rim Exit Device :
 - 1. Product: 98 L.
 - 2. Type: 1.
 - 3. Grade: Grade 1.
 - 4. Actuating Bar: Push pad.
 - 5. Trim: 996L with 07 lever.
 - 6. Function: ANSI 08 – Push pad retracts latch; key retracts latch; key locks or unlocks lever; less dogging.
 - 7. Finish: US26D/US32D.
- E. Exit Device Type 3 -. Rim Exit Device :
 - 1. Product: 98 EO.
 - 2. Grade: Grade 1.
 - 3. Actuating Bar: Push pad.
 - 4. Function: ANSI 01 Exit Only – Push pad retracts latch; less dogging.
 - 5. Finish: US26D/US32D.

2.7 LOCK CYLINDERS AND KEYING

- A. Manufacturers: Provide cylinders from the same manufacturer as locksets.
- B. Standards: Comply with the following:
 - 1. Cylinders: BHMA A156.
 - 2. Cylinder Grade: BHMA Grade 1.
- C. Cylinders: Manufacturer's standard tumbler type, constructed from brass or bronze, stainless steel, or nickel silver, and complying with the following:
 - 1. Number of Pins: Six (6).
 - 2. Mortise Type: Threaded cylinders with rings and straight- or clover-type cam.
 - a. BHMA Designation EO9211
 - 3. Bored-Lock Type: Small Format Interchangeable Core (SFIC) housings prepared to accept removable small format interchangeable cores (less core), with tailpieces or drive mechanisms as required to suit the lock function.
 - a. Provide SFIC-compatible cylinders/housings for all bored locks.
 - b. BHMA Designation: E09231 (or equivalent for SFIC prep).
 - c. Cores: Furnish permanent small format interchangeable cores as specified in Paragraph D below; temporary construction cores shall be provided during installation and replaced with permanent cores per the keying schedule.

- D. Permanent Cores: Manufacturer's standard; finish face to match lockset; complying with the following:
 - 1. Interchangeable Cores: Core insert, removable by use of a special key, and usable with other manufacturers' cylinders.

- E. Keying System: Unless otherwise indicated, provide a factory-registered keying system complying with the following requirements:
 - 1. Master Key System: Cylinders are operated by a change key and a master key as follows:
 - a. Change Key: Individual keys for individual locks.
 - b. Exterior Door Keys: Key exterior doors.
 - c. Maintenance Master: Opens all mechanical, electrical and equipment room doors.
 - d. Grand Master: Opens every door.

- F. Keys: Provide nickel-silver keys complying with the following:
 - 1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:
 - a. Notation: "DO NOT DUPLICATE."
 - 2. Quantity: In addition to one extra blank key for each lock, provide the following:
 - a. Cylinder Change Keys: Three (3).
 - b. Master Keys: Five (5) each.
 - c. Exterior Door Keys: Ten (10) each.
 - d. Maintenance Master: Ten (10).

2.8 STRIKES

- A. Standards: Comply with the following:
 - 1. Strikes for Bored Locks and Latches: BHMA A156.2.
 - 2. Strikes for Mortise Locks and Latches: BHMA A156.13.
 - 3. Strikes for Interconnected Locks and Latches: BHMA A156.12.
 - 4. Strikes for Auxiliary Deadlocks: BHMA A156.5.

- B. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
 - 1. Flat-Lip Strikes: For locks with three (3)-piece antifriction latchbolts, as recommended by manufacturer.

- C. Electric Strikes: Provide medium-duty, fail-secure, electric strike for use with Mortis or cylindrical locksets and compatible with rim exit devices.
 - 1. Product: Von Duprin 5100-3FP
 - 2. Standards: ANSI/BHMA 156.5; UL 1034
 - 3. Finish: Aluminum
 - 4. Input Voltage: 12/24 V AC/DC

2.9 OPERATING TRIM, GENERAL

- A. Manufacturers: Subject to compliance with requirements, provide products by manufacturer listed for each product or equal products by other manufacturer.
- B. Standard: Comply with BHMA A156.6.

2.10 OPERATING TRIM

- A. Flat Push Plates: 0.050 inch thick, 4 inches wide by 16 inches high; with square corners and beveled edges, secured with exposed screws.
 - 1. Product: Rockwood 70C-RKW.
 - 2. Finish: US32D.
- B. Flat Kick Plate: 0.050 inch thick, 10 inches high by 2 inches less than door widths, with square corners and beveled edges, secure with exposed screws.
 - 1. Product: Rockwood K1050.
 - 2. Finish: US32D.
- C. Tubular Door Pulls: 1-1/4 inch diameter pull.
 - 1. Product: Rockwood RM301.
 - 2. Length: 12 inch long, 3 inch projection.
 - 3. Back Plate: 0.650 inch, 4 inch wide by 16 inch high with square corners.
 - 4. Pull Position: Plain, centered.
 - 5. Finish: US32D.
- D. Surface Bolts:
 - 1. Rockwood: 580-8
 - 2. Length: 8 inches.
 - 3. Finish: US26D.

2.11 SURFACE CLOSERS

- A. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one (1) of the following:
 - a. Yale.
- B. Closer – Type 2: Closer with Cover: Grade 1; Modern Type with mechanism enclosed in cover.
 - 1. Product: Series 5800.
 - 2. Mounting: Parallel arm, push side, on door.
 - 3. Type: Normal power range, adjustable strikes 1-6.

4. Backcheck: Adjustable, effective between 60 and 90 degrees of door opening.
 5. Cover Material: Molded plastic.
 6. Finish: 689 Aluminum painted.
 7. Closing Power Adjustment: At least 15 percent more than minimum tested value.
- C. Closer – Type 3: Closer with Cover: Grade 1; Modern Type with mechanism enclosed in cover.
1. Product: Series 5821.
 2. Mounting: Parallel arm, push side, on door.
 3. Type: Normal power range, adjustable strikes 1-6.
 4. Backcheck: 110 degree hold-open capability.
 5. Cover Material: Molded plastic,
 6. Finish: 689 Aluminum painted.
 7. Closing Power Adjustment: At least 15 percent more than minimum tested value.

2.12 MECHANICAL STOPS AND HOLDERS

- A. Wall- and Floor-Mounted Stops: BHMA A156.16; polished cast brass, bronze, or aluminum base metal.
1. Manufacturers: Subject to compliance with requirements, provide products by one (1) of the following:
 - a. Rockwood.
 2. Provide wall bumpers whenever practical. Provide floor stops when wall stops are not appropriate.
- B. Dome-Type Floor Stop: Grade 2; with minimum 1-1/8 inch (29 mm) high bumper for doors without threshold and 1-1/2 inch (38 mm) high bumper for doors with threshold; provide with extruded aluminum riser for carpet installations.
1. Product: 441CU, US26D.
- C. Wall Bumpers: Grade 2; with rubber bumper; 1-7/8 inch (48 mm) diameter, minimum 1 inch (25 mm) projection from wall; with backplate for concealed fastener installation; with concave bumper configuration.
1. Product: 426, US26D.
- D. Exterior Floor Stop: Cast brass construction with replaceable rubber tip.
1. Product: FS470.
 - a. Height: 3 inch (76 mm).
 - b. Finish: US26D.
- E. Silencers for Metal Door Frames: BHMA Grade 1; neoprene or rubber, minimum diameter 1/2 inch; fabricated for drilled-in application to frame.
1. Provide on all interior hollow metal door frames.

- F. Overhead Surface-Mounted, Non-friction Slide Stops: Type 5; Grade 1; with non-frictional element held under adjustable pressure and shock absorber; for single-acting doors opening 110 degrees.

2.13 DOOR GASKETING – WEATHER SEALS

- A. Door Gasketing: BHMA A156.22; air leakage not to exceed 0.50 cfm per foot (0.000774 cu. m/s per m) of crack length for gasketing other than for smoke control, as tested according to ASTM E 283; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one (1) of the following:
 - a. Pemco.
- B. Weather Seals: Double perimeter seals mounted to door jamb and head:
 - 1. Inboard Seals: Adhesive-Backed Perimeter Gasketing; Silicone, triple fin adhesive perimeter seal applied to frame rabbet with self-adhesive.
 - a. Product: S88 BL.
 - 2. Outboard Seals: Bronze Spring seal.
 - a. Product: 75 B.
- C. Door Sweeps: Vinyl gaskets. Gasket material held in place by flat aluminum housing or flange; surface mounted to door with screws.
 - 1. Outside Sweep with Rain Drip:
 - a. Product: 345_PK D.
 - b. Mount on outside face of door so that sweep engages the threshold when closed.
- D. Overhead Rain Drip:
 - a. Manufactures standard rain drip.
 - b. 4 inches longer than door width.
 - c. Color to match door and frame color

2.14 DOOR GASKETING – SOUND SEALS

- A. Sound Seals: Double perimeter seals mounted to door jamb and head:
 - 1. Inboard Seals: Adhesive-Backed Perimeter Gasketing; Silicone, triple fin adhesive perimeter seal applied to frame rabbet with self-adhesive.
 - a. Product: S88B.
 - 2. Outboard Seals: Surface mounted seal.
 - a. Product: 312 R.
 - b. Attach to door stop with door closing against bulb.

- B. Automatic Door Bottom: Aluminum body with adjustable neoprene seal. Recess into bottom of door so that the seal is in contact with the threshold when closed.
 - 1. Product: STC411 PK.

2.15 ASTRAGALS

- A. Astragal for exterior pairs of doors: Overlapping-with-Gasket Astragal. Surface mounted on face of active leaf:
 - 1. Product: 355-S.
 - 2. Base Metal: Aluminum.
 - 3. Gasket Material: Neoprene bulb and lip.

2.16 THRESHOLDS

- A. Thresholds: Fabricated to full width of opening indicated.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one (1) of the following:
 - a. Pemco.
- B. Saddle Threshold with Gasket: Fluted-top metal member with gasket.
 - 1. Type: Concealed fastener.
 - 2. Size: 5 inch by 1/2 inch high.
 - 3. Base Metal: Aluminum.
 - 4. Gasket Material: Neoprene bulb.
 - 5. Required undercut: min. 9/32", max 15/32"
 - 6. Product: 2009_PK D.

2.17 FABRICATION

- A. Manufacturer's Nameplate: Do not provide products that have manufacturer's name or trade name displayed in a visible location except in conjunction with required fire-rated labels and as otherwise approved by Architect.
 - 1. Manufacturer's identification is permitted on rim of lock cylinders only.
- B. Base Metals: Produce door hardware units of base metal indicated, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18.
- C. Fasteners: Provide door hardware manufactured to comply with published templates prepared for machine, wood, and sheet metal screws. Provide screws that comply with commercially recognized industry standards for application intended, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.
 - 1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use

through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.

2. Fire-Rated Applications:
 - a. Wood or Machine Screws: For the following:
 - 1) Hinges mortised to doors or frames; use threaded-to-the-head wood screws for wood doors and frames.
 - 2) Strike plates to frames.
 - 3) Closers to doors and frames.
 - b. Steel Through Bolts: For the following unless door blocking is provided:
 - 1) Surface hinges to doors.
 - 2) Closers to doors and frames.
 - 3) Surface-mounted exit devices.
3. Spacers or Sex Bolts: For through bolting of hollow-metal doors.
4. Fasteners for Wood Doors: Comply with requirements in DHI WDHS.2, "Recommended Fasteners for Wood Doors".
5. Gasketing Fasteners: Provide non-corrosive fasteners for exterior applications and elsewhere as indicated.

2.18 FINISHES

- A. Provide finishes complying with BHMA A156.18 as indicated in Door Hardware Schedule.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights to comply with the following unless otherwise indicated or required to comply with governing regulations.
 - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - 2. Custom Steel Doors and Frames: HMMA 831.
 - 3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors".
- B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work. Do not install surface-mounted items until finishes have been completed on substrates involved.
 - 1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
 - 2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- C. Hinges: Install types and in quantities indicated in Door Hardware Schedule but not fewer than the number recommended by manufacturer for application indicated or one (1) hinge for every 30 inches (750 mm) of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
- D. Lock Cylinders: Install construction cores to secure building and areas during construction period.
 - 1. Replace construction cores with permanent cores as indicated in keying schedule.
 - 2. Furnish permanent cores to Owner for installation.
- E. Boxed Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings. Verify location with Architect.
 - 1. Configuration: Provide least number of power supplies required to adequately serve doors with electrified door hardware.
- F. Thresholds: Set thresholds for exterior doors and other doors indicated in full bed of sealant complying with requirements specified in Section 07 92 00 "Joint Sealants".
- G. Stops: Provide floor stops for doors unless wall or other type stops are indicated in Door Hardware Schedule. Do not mount floor stops where they will impede traffic.
- H. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
- I. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- J. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.3 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 - 1. Spring Hinges: Adjust to achieve positive latching when door is allowed to close freely from an open position of 30 degrees.
 - 2. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

3.4 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

3.5 HARDWARE SCHEDULE

A. GENERAL

- 1. The Schedule provided on drawings is for Contractor's guidance in determining the class and quantity of hardware desired for the work. The Contractor is responsible for providing all hardware necessary for a complete and functional operation. If any hardware is not scheduled, it shall be similar to that shown in similar locations and shall be furnished with no additional cost to the Owner.
- 2. Hardware for doors indicated shall be furnished in accordance with the Schedule.
 - a. Quantity indicated is for each set. Complete sets shall be furnished for each door listed for that set.
 - b. Contractor shall furnish all items or components of hardware required for completion of work and to make installation operable.
 - c. Catalog numbers given herein are to identify in general the functions, style and finishes of hardware desired. They are not complete and are not intended for ordering materials. Contractor shall be responsible for providing hardware appropriate for installations.
 - d. All bored locks shall be provided with SFIC preparation (less core) to accept permanent small format interchangeable cores keyed per the approved keying schedule.

END OF SECTION 08 71 11