

ADDENDUM NO. 2

To the Drawings and/or the Specifications for
Harford County Public Schools
Southampton Middle School
Security Vestibule – CAG 26-3
Bel Air, Maryland

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Revisions and modifications contained in this Addendum supersede the previously issued Documents for the above referenced Project.

SPECIFICATION REVISIONS

Item S2-1: Section 08 7100 Door Hardware – replace section in its entirety.

SUPPLEMENTAL INFORMATION

1. None.

CLARIFICATION

1. Refer to attached RFI-001 for responses to inquiries. Clarifications are indicated with *red text*.

END OF ADDENDUM NO. 2

A. SECTION 08 7100

DOOR HARDWARE

PART 1 GENERAL

I. RELATED DOCUMENTS

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

II. SUMMARY

1. Section includes:
 - a. Mechanical and electrified door hardware for:
 - i. Swinging doors.
 - b. Field verification, preparation and modification of existing doors and frames to receive new door hardware.
2. Exclusions: Unless specifically listed in hardware sets, hardware is not specified in this section for:
 - a. Window
 - b. Cabinets (casework), including locks in cabinets
 - c. Signage
 - d. Toilet accessories
 - e. Overhead doors

III. REFERENCES

1. UL - Underwriters Laboratories
 - a. UL 10B - Fire Test of Door Assemblies
 - b. UL 10C - Positive Pressure Test of Fire Door Assemblies
 - c. UL 1784 - Air Leakage Tests of Door Assemblies
 - d. UL 305 - Panic Hardware
2. DHI - Door and Hardware Institute
 - a. Sequence and Format for the Hardware Schedule
 - b. Recommended Locations for Builders Hardware
 - c. Key Systems and Nomenclature
3. ANSI - American National Standards Institute
 - a. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties

IV. SUBMITTALS

1. General:
 - a. Submit in accordance with Conditions of Contract and Division 01 requirements.
 - b. Highlight, encircle, or otherwise specifically identify on submittals deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.
 - c. Prior to forwarding submittal, comply with procedures for verifying existing door and frame compatibility for new hardware, as specified in PART 3, "EXAMINATION" article, herein.
2. Action Submittals:
 - a. Product Data: Product data including manufacturers' technical product data for each item of door hardware, installation instructions, maintenance

- of operating parts and finish, and other information necessary to show compliance with requirements.
- b. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
 - i. Wiring Diagrams: For power, signal, and control wiring and including:
 - 1. Details of interface of electrified door hardware and building safety and security systems.
 - 2. Schematic diagram of systems that interface with electrified door hardware.
 - 3. Point-to-point wiring.
 - 4. Risers.
 - c. Samples for Verification: If requested by Architect, submit production sample or sample installations of each type of exposed hardware unit in finish indicated, and tagged with full description for coordination with schedule.
 - i. Samples will be returned to supplier in like-new condition. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.
 - d. Door Hardware Schedule: Submit schedule with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule as published by the Door and Hardware Institute. Indicate complete designations of each item required for each door or opening, include:
 - i. Door Index; include door number, heading number, and Architects hardware set number.
 - ii. Opening Lock Function Spreadsheet: List locking device and function for each opening.
 - iii. Type, style, function, size, and finish of each hardware item.
 - iv. Name and manufacturer of each item.
 - v. Fastenings and other pertinent information.
 - vi. Location of each hardware set cross-referenced to indications on Drawings.
 - vii. Explanation of all abbreviations, symbols, and codes contained in schedule.
 - viii. Mounting locations for hardware.
 - ix. Door and frame sizes and materials.
 - x. Name and phone number for local manufacturer's representative for each product.
 - xi. Operational Description of openings with any electrified hardware (locks, exits, electromagnetic locks, electric strikes, automatic operators, door position switches, magnetic holders or closer/holder units, and access control components). Operational description should include how door will operate on egress, ingress, and fire and smoke alarm connection.
 - 1. Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work that is critical in Project construction schedule.
 - e. Key Schedule:
 - i. After Keying Conference, provide keying schedule listing levels of keying as well as explanation of key system's function, key symbols used and door numbers controlled.

- ii. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
 - iii. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
 - iv. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
 - v. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion.
 - 1. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
 - vi. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.
- f. Templates: After final approval of hardware schedule, provide templates for doors, frames and other work specified to be factory prepared for door hardware installation.
3. Informational Submittals:
- a. Qualification Data: For Supplier, Installer and Architectural Hardware Consultant.
 - b. Product Certificates for electrified door hardware, signed by manufacturer:
 - i. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
 - c. Certificates of Compliance:
 - i. Certificates of compliance for fire-rated hardware and installation instructions if requested by Architect or Authority Having Jurisdiction.
 - ii. Installer Training Meeting Certification: Letter of compliance, signed by Contractor, attesting to completion of installer training meeting specified in "QUALITY ASSURANCE" article, herein.
 - iii. Electrified Hardware Coordination Conference Certification: Letter of compliance, signed by Contractor, attesting to completion of electrified hardware coordination conference, specified in "QUALITY ASSURANCE" article, herein.
 - d. Product Test Reports: For compliance with accessibility requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by qualified testing agency, for door hardware on doors located in accessible routes.
 - e. Warranty: Special warranty specified in this Section.
4. Closeout Submittals:
- a. Operations and Maintenance Data : Provide in accordance with Division 01 and include:
 - i. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
 - ii. Catalog pages for each product.
 - iii. Name, address, and phone number of local representative for each manufacturer.
 - iv. Parts list for each product.
 - v. Final approved hardware schedule, edited to reflect conditions as-installed.
 - vi. Final keying schedule

- vii. Copies of floor plans with keying nomenclature
- viii. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.
- ix. Copy of warranties including appropriate reference numbers for manufacturers to identify project.

V. QUALITY ASSURANCE

1. Product Substitutions: Comply with product requirements stated in Division 01 and as specified herein.
 - a. Where specific manufacturer's product is named and accompanied by "No Substitute," including make or model number or other designation, provide product specified. (Note: Certain products have been selected for their unique characteristics and particular project suitability.)
 - i. Where no additional products or manufacturers are listed in product category, requirements for "No Substitute" govern product selection.
 - b. Where products indicate "acceptable manufacturers" or "acceptable manufacturers and products", provide product from specified manufacturers, subject to compliance with specified requirements and "Single Source Responsibility" requirements stated herein.
2. Supplier Qualifications and Responsibilities: Recognized architectural hardware supplier with record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that provides certified Architectural Hardware Consultant (AHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
 - a. Warehousing Facilities: In Project's vicinity.
 - b. Scheduling Responsibility: Preparation of door hardware and keying schedules.
 - c. 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.
 - d. Coordination Responsibility: Coordinate installation of electronic security hardware with Architect and electrical engineers and provide installation and technical data to Architect and other related subcontractors.
 - i. Upon completion of electronic security hardware installation, inspect and verify that all components are working properly.
3. Installer Qualifications: Qualified tradesmen, skilled in application of commercial grade hardware with record of successful in-service performance for installing door hardware similar in quantity, type, and quality to that indicated for this Project.
4. Architectural Hardware Consultant Qualifications: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:
 - a. For door hardware, DHI-certified, Architectural Hardware Consultant (AHC).
 - b. Can provide installation and technical data to Architect and other related subcontractors.
 - c. Can inspect and verify components are in working order upon completion of installation.
 - d. Capable of producing wiring diagrams.
 - e. Capable of coordinating installation of electrified hardware with Architect and electrical engineers.

5. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.
 - a. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated.
 - b. Manufacturers that perform electrical modifications and that are listed by testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.
6. Fire-Rated Door Openings: Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to products tested by Underwriters Laboratories, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.
7. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
 - a. Air Leakage Rate: Maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.
8. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
9. Means of Egress Doors: Latches do not require more than 15 lbf (67 N) to release latch. Locks do not require use of key, tool, or special knowledge for operation.
10. Accessibility Requirements: For door hardware on doors in an accessible route, comply with governing accessibility regulations cited in "REFERENCES" article, herein.
 - a. Provide operating devices that do not require tight grasping, pinching, or twisting of wrist and that operate with force of not more than 5 lbf (22.2 N).
 - b. Maximum opening-force requirements:
 - i. Interior, Non-Fire-Rated Hinged Doors: 5 lbf (22.2 N) applied perpendicular to door.
 - ii. Sliding or Folding Doors: 5 lbf (22.2 N) applied parallel to door at latch.
 - iii. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
 - c. Bevel raised thresholds with slope of not more than 1:2. Provide thresholds not more than 1/2 inch high.
 - d. Adjust door closer sweep periods so that, from open position of 70 degrees, door will take at least 3 seconds to move to 3 inches from latch, measured to leading edge of door.
11. Keying Conference: Conduct conference at Project site to comply with requirements in Division 01.
 - a. Attendees: Owner, Contractor, Architect, Installer and Supplier's Architectural Hardware Consultant.
 - b. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
 - i. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
 - ii. Preliminary key system schematic diagram.
 - iii. Requirements for key control system.
 - iv. Requirements for access control.

v. Address for delivery of keys.

12. Coordination Conferences:

- a. Installation Coordination Conference: Prior to hardware installation, schedule and hold meeting to review questions or concerns related to proper installation and adjustment of door hardware.
 - i. Attendees: Door hardware supplier, door hardware installer, Contractor.
 - ii. After meeting, provide letter of compliance to Architect, indicating when meeting was held and who was in attendance.
- b. Electrified Hardware Coordination Conference: Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.
 - i. Attendees: electrified door hardware supplier, doors and frames supplier, electrified door hardware installer, electrical subcontractor, Owner, Architect and Contractor.
 - ii. After meeting, provide letter of compliance to Architect, indicating when coordination conference was held and who was in attendance.

VI. DELIVERY, STORAGE, AND HANDLING

1. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site.
2. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.
 - a. Deliver each article of hardware in manufacturer's original packaging.
3. Project Conditions:
 - a. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
 - b. Provide secure lock-up for door hardware delivered to Project, but not yet installed. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
4. Protection and Damage:
 - a. Promptly replace products damaged during shipping.
 - b. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work.
 - c. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.
5. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.
6. Deliver keys and permanent cores to Owner by registered mail or overnight package service.

VII. COORDINATION

1. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete. Concrete, reinforcement, and formwork requirements are specified in Division 03.
2. 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.
3. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.

4. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.
5. 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.
6. Direct shipments not permitted, unless approved by Contractor.

VIII. WARRANTY

1. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
 - a. Warranty Period: Years from date of Substantial Completion, for durations indicated.
 - i. Closers:
 1. Mechanical: 10 years. Electrified: 2 years.
 - ii. Automatic Operators: 1 year.
 - iii. Exit Devices:
 1. Mechanical: 3 years.
 2. Electrified: 1 year.
 - iv. Locksets:
 1. Mechanical: 3 years.
 2. Electrified: 1 year.
 - v. Continuous Hinges: Lifetime warranty
 - b. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.

IX. MAINTENANCE

1. Maintenance Tools:
 - a. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

B. PART 2 PRODUCTS

I. MANUFACTURERS

1. The Owner requires use of certain products for their unique characteristics and particular project suitability to insure continuity of existing and future performance and maintenance standards. After investigating available product offerings Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute."
 - a. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.
2. Approval of manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category shall be in accordance with QUALITY ASSURANCE article, herein.
3. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.
4. Hand of Door: Drawings show direction of slide, swing, or hand of each door leaf. Furnish each item of hardware for proper installation and operation of door movement as shown.
5. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

II. MATERIALS

1. Fasteners
 - a. Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation.
 - b. Furnish screws for installation with each hardware item. Finish exposed (exposed under any condition) screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
 - c. Provide concealed fasteners for hardware units exposed when door is closed except when no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless thru-bolts are required to fasten hardware securely. Review door specification and advise Architect if thru-bolts are required.
 - d. Install hardware with fasteners provided by hardware manufacturer.
2. Modification and Preparation of Existing Doors: Where existing door hardware is indicated to be removed and reinstalled.
 - a. Provide necessary fillers, Dutchmen, reinforcements, and fasteners, compatible with existing materials, as required for mounting new opening hardware and to cover existing door and frame preparations.
 - b. Use materials which match materials of adjacent modified areas.
 - c. When modifying existing fire-rated openings, provide materials permitted by NFPA 80 as required to maintain fire-rating.
3. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.
 - a. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

III. HINGES

1. Provide five-knuckle, ball bearing hinges.
 - a. Manufacturers and Products:
 - i. Scheduled Manufacturer and Product: Ives 5BB series
 - ii. Acceptable Manufacturers and Products: Hager BB series, McKinney TA/T4A series, Stanley FBB Series
2. Requirements:
 - a. 1-3/4 inch thick doors, up to and including 36 inches wide:
 - i. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches high
 - ii. Interior: Standard weight, steel, 4-1/2 inches high
 - b. 1-3/4 inch thick doors over 36 inches wide:
 - i. Exterior: Heavy weight, bronze/stainless steel, 5 inches high
 - ii. Interior: Heavy weight, steel, 5 inches high
 - c. 2 inches or thicker doors:
 - i. Exterior: Heavy weight, bronze or stainless steel, 5 inches high
 - ii. Interior: Heavy weight, steel, 5 inches high
 - d. Provide three hinges per door leaf for doors 90 inches or less in height, and one additional hinge for each 30 inches of additional door height.
 - e. Where new hinges are specified for existing doors or existing frames, provide new hinges of identical size to hinge preparation present in existing door or existing frame.
 - f. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
 - i. Steel Hinges: Steel pins
 - ii. Non-Ferrous Hinges: Stainless steel pins
 - iii. Out-Swinging Exterior Doors: Non-removable pins

- iv. Out-Swinging Interior Lockable Doors: Non-removable pins
- v. Interior Non-lockable Doors: Non-rising pins
- g. Width of hinges: 4-1/2 inches at 1-3/4 inch thick doors, and 5 inches at 2 inches or thicker doors. Adjust hinge width as required for door, frame, and wall conditions to allow proper degree of opening.
- h. Doors 36 inches wide or less furnish hinges 4-1/2 inches high; doors greater than 36 inches wide furnish hinges 5 inches high, heavy weight or standard weight as specified.
- i. Provide hinges with electrified options as scheduled in the hardware sets. Provide with sufficient number and wire gage to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component.
- j. Provide mortar guard for each electrified hinge specified, unless specified in hollow metal frame specification.
- k. Provide spring hinges where specified. Provide two spring hinges and one bearing hinge per door leaf for doors 90 inches or less in height. Provide one additional bearing hinge for each 30 inches of additional door height.

IV. CONTINUOUS HINGES

- 1. Aluminum Geared
 - a. Manufacturers:
 - i. Scheduled Manufacturer: Ives.
 - ii. Acceptable Manufacturers: Markar, Stanley.
 - b. Requirements:
 - i. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.25, Grade 2.
 - ii. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum, with 0.25-inch 0.24 inch diameter Teflon coated stainless steel hinge pin.
 - iii. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
 - iv. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
 - v. On fire-rated doors, provide aluminum geared continuous hinges that are classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
 - vi. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with sufficient number and wire gage to accommodate electric function of specified hardware.
 - vii. Install hinges with fasteners supplied by manufacturer.
 - viii. Provide hinges with symmetrical hole pattern.

V. FLUSH BOLTS

- 1. Manufacturers:
 - a. Scheduled Manufacturer: Ives
 - b. Acceptable Manufacturers: Burns, Rockwood
- 2. Requirements:
 - a. Provide automatic, constant latching, and manual flush bolts with forged bronze or stainless steel face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch steel or brass rods at doors up to 90 inches in height. For doors over 90 inches in height increase top rods by 6 inches for each additional 6 inches of door height. Provide dust-proof strikes at each bottom flush bolt.

VI. CYLINDRICAL LOCKS – GRADE 1

1. Manufacturers and Products:
 - a. Scheduled Manufacturer and Product: Schlage ND series
 - b. All are Owner Furnished Contractor Installed
2. Requirements:
 - a. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1. Cylinders: Refer to "KEYING" article, herein.
 - b. Provide locks with standard 2-3/4 inches backset, unless noted otherwise, with a 1/2 inch latch throw. Provide proper latch throw for UL listing at pairs.
 - c. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
 - d. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
 - e. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
 - f. Provide electrified options as scheduled in the hardware sets.
 - g. Lever Trim: Solid cast levers without plastic inserts, and wrought roses on both sides.
 - i. Lever Design: As shown in hardware sets.
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VII. MORTISE LOCKS

1. Manufacturers and Products:
 - a. Scheduled Manufacturer and Product: Schlage L series
 - b. All are Owner Furnished Contractor Installed
2. Requirements:
 - a. Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1, and UL Listed for 3 hour fire doors.
 - b. Provide locks manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance.
 - c. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to "KEYING" article, herein.
 - d. Provide locks with standard 2-3/4 inches backset with full 3/4 inch throw stainless steel mechanical anti-friction latchbolt. Provide deadbolt with full 1 inch throw, constructed of stainless steel.
 - e. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
 - f. Provide electrified options as scheduled in the hardware sets. Where scheduled, provide a request to exit (RX) switch that is actuated with rotation of inside lever.
 - g. Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.
 - i. Lever Design: As shown in hardware sets

VIII. EXIT DEVICES

1. Manufacturers and Products:
 - a. Scheduled Manufacturer and Product: Von Duprin 98 series
 - b. All are Owner Furnished Contractor Installed
2. Requirements:
 - a. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1, and UL listed for Panic Exit or Fire Exit Hardware. Cylinders: Refer to "KEYING" article, herein.

- b. Exit Devices: Touchpad type, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
- c. Touchpad: Extend minimum of one half of door width. Match exit device finish or provide compatible finish. Provide compression springs in devices, latches, and outside trims or controls, tension springs also acceptable.
- d. Provide devices with deadlatching feature for security and for future addition of alarm kits and other electrical requirements.
- e. Provide manufacturer's standard strikes.
- f. Provide exit devices cut to door width and height. Locate exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
- g. Mount mechanism case flush on face of doors, or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
- h. Provide cylinder dogging at non-fire-rated exit devices.
- i. Removable Mullions: 2 inches x 3 inches steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
- j. Where lever handles are specified as outside trim for exit devices, provide heavy-duty lever trims with forged or cast escutcheon plates. Provide vandal-resistant levers that will travel to 90-degree down position when more than 35 pounds of torque are applied, and which can easily be re-set.
 - i. Lever Style: Match lever style of locksets.
- k. Provide UL labeled fire exit hardware for fire rated openings.
- l. Field drill weep holes per manufacturer's recommendation for exit devices used in full exterior application, highly corrosive areas, and where noted in the hardware sets.
- m. Provide electrified options as scheduled in the hardware sets.

IX. ELECTRIC STRIKES

- 1. Manufacturers and Products:
 - a. Scheduled Manufacturer and Product: Von Duprin 6000 series
 - b. Acceptable Manufacturers and Products: Folger Adam 300 series, HES 1006 series
- 2. Requirements:
 - a. Provide electric strikes designed for use with type of locks shown at each opening.
 - b. Provide electric strikes UL Listed as burglary-resistant.
 - c. Where required, provide electric strikes UL Listed for fire doors and frames.
 - d. Provide fail-secure type electric strikes, unless specified otherwise.
 - e. Coordinate voltage and provide transformers and rectifiers for each strike as required.

X. POWER SUPPLIES

- 1. Manufacturers and Products:
 - a. Scheduled Manufacturer and Product: Schlage or Von Duprin PS900 series
 - b. Acceptable Manufacturers and Products No Substitutions
- 2. Requirements:
 - a. Provide power supplies, recommended and approved by manufacturer of electrified locking component, for operation of electrified locks, electrified

exit devices, magnetic locks, electric strikes, and other components requiring power supply.

- b. Provide appropriate quantity and size of power supplies necessary for proper operation of electrified locking components as recommended by manufacturer of electrified locking components with consideration for each electrified component using power supply, location of power supply, and approved wiring diagrams. Locate power supplies as directed by Architect.
- c. Provide appropriate option boards for power supplies necessary for proper operation of the electrified locking components as recommended by the manufacturer of the electrified locking components with consideration for each electrified component used in the system.
- d. Provide regulated and filtered 24 VDC power supply and UL class 2 listed.
- e. Options:
 - i. Provide power supply, where specified, with internal capability of charging sealed backup batteries 24 VDC, in addition to operating DC load.
 - ii. Provide sealed batteries for battery back-up at each power supply where specified.
 - iii. Provide keyed power supply cabinet.
- f. Provide power supply in an enclosure, complete, and requiring 120VAC to fused input.
- g. Provide power supply with emergency release terminals, where specified, that allow release of all devices upon activation of fire alarm system complete with fire alarm input for initiating "no delay" exiting mode.

XI. CYLINDERS

1. Manufacturers:
 - a. Scheduled Manufacturer: Schlage
 - b. All are Owner Furnished Contractor Installed
2. Requirements:
 - a. Provide cylinders/cores, from the same manufacturer of locksets, compliant with ANSI/BHMA A156.5; latest revision, Section 12, Grade 1; permanent cylinders; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.
 - b. Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.
 - i. High Security: dual-locking cylinder with permanent core requiring, patented keyway.
 - ii. Security: dual-locking cylinder with interchangeable core requiring restricted, patented keyway.
 - iii. Conventional cylinder with interchangeable core with open keyway.
 - c. Patent Protection: Cylinders/cores requiring use of restricted, patented keys, patent-protected.
 - d. Security Cylinders: Where indicated, provide cylinders/cores with "dual-locking mechanism" with interlocking finger pin(s) to check for patented features on keys.
 - e. Nickel silver bottom pins.
 - f. Temporary Construction Cylinder Keying.
 - i. Owner or Owner's Representative will void operation of temporary construction keys.

XII. KEYING

1. Provide a factory registered keying system, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.
2. Requirements:

- i. All Locks to be keyed into the owner existing Master Key System as directed by the owner.
- b. Provide keys with the following features.
 - i. Material: Solid nickel plated
- c. Identification:
 - i. Mark permanent cylinders/cores and keys with applicable blind code per DHI publication "Keying Systems and Nomenclature" for identification. Blind code marks shall not include actual key cuts.
 - ii. Identification stamping provisions must be approved by the Architect and Owner.
 - iii. Failure to comply with stamping requirements shall be cause for replacement of keys involved at no additional cost to Owner.
 - iv. Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
- d. Quantity: Furnish in the following quantities.
 - i. Change (Day) Keys: 3 per cylinder/core.
 - ii. Permanent Control Keys: 3.
 - iii. Master Keys: 6.
 - iv. Unused balance of key blanks shall be furnished to Owner with the cut keys.
 - v. Extra Keys:
 - 1. 6 Construction Keys

XIII. KEY CONTROL SYSTEM

- 1. Manufacturers:
 - a. Scheduled Manufacturer: Telkee
 - b. Acceptable Manufacturers: HPC, Lund
- 2. Requirements:
 - a. Provide key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of number of locks required for Project.
 - i. Provide complete cross index system set up by hardware supplier, and place keys on markers and hooks in cabinet as determined by final key schedule.
 - ii. Provide hinged-panel type cabinet for wall mounting.

XIV. DOOR CLOSERS

- 1. Manufacturers and Products:
 - a. Scheduled Manufacturer and Product: LCN 4040XP series.
 - b. All are Owner Furnished Contractor Installed
- 2. Requirements:
 - a. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
 - b. Provide door closers with fully hydraulic, full rack and pinion action with aluminum cylinder.
 - c. Closer Body: 1-1/2 inch diameter with 5/8 inch diameter heat-treated pinion journal.
 - d. Hydraulic Fluid: Fireproof, passing requirements of UL 10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees Fahrenheit to -30 degrees Fahrenheit.

- e. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
- f. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
- g. Pressure Relief Valve (PRV) Technology: Not permitted.
- h. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

XV. DOOR TRIM

- 1. Manufacturers:
 - a. Scheduled Manufacturer: Ives
 - b. Acceptable Manufacturers: Burns, Trimco
- 2. Requirements:
 - a. Provide push plates 4 inches wide by 16 inches high by 0.050 inch thick and beveled 4 edges. Where width of door stile prevents use of 4 inches wide plate, adjust width to fit.
 - b. Provide push bars of solid bar stock, diameter and length as scheduled. Provide push bars of sufficient length to span from center to center of each stile. Where required, mount back to back with pull.
 - c. Provide offset pulls of solid bar stock, diameter and length as scheduled. Where required, mount back to back with push bar.
 - d. Provide flush pulls as scheduled. Where required, provide back-to-back mounted model.
 - e. Provide pulls of solid bar stock, diameter and length as scheduled. Where required, mount back to back with push bar.
 - f. Provide pull plates 4 inches wide by 16 inches high by 0.050 inch thick, beveled 4 edges, and prepped for pull. Where width of door stile prevents use of 4 inches wide plate, adjust width to fit.
 - g. Provide wire pulls of solid bar stock, diameter and length as scheduled.
 - h. Provide decorative pulls as scheduled. Where required, mount back to back with pull.

XVI. PROTECTION PLATES

- 1. Manufacturers:
 - a. Scheduled Manufacturer: Ives
 - b. Acceptable Manufacturers: Burns, Trimco
- 2. Requirements:
 - a. Provide kick plates, mop plates, and armor plates minimum of 0.050 inch thick as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
 - b. Sizes of plates:
 - i. Kick Plates: 10 inches high by 2 inches less width of door on single doors, 1 inch less width of door on pairs
 - ii. Mop Plates: 4 inches high by 2 inches less width of door on single doors, 1 inch less width of door on pairs
 - iii. Armor Plates: 36 inches high by 2 inches less width of door on single doors, 1 inch less width of door on pairs

XVII. OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

- 1. Manufacturers:
 - a. Scheduled Manufacturers: Glynn-Johnson
 - b. Acceptable Manufacturers: Rixson, Sargent
- 2. Requirements:

- a. Provide heavy duty concealed mounted overhead stop or holder as specified for exterior and interior vestibule single acting doors.
- b. Provide heavy duty concealed mounted overhead stop or holder as specified for double acting doors.
- c. Provide heavy or medium duty and concealed or surface mounted overhead stop or holder for interior doors as specified. Provide medium duty surface mounted overhead stop for interior doors and at any door that swings more than 140 degrees before striking wall, open against equipment, casework, sidelights, and where conditions do not allow wall stop or floor stop presents tripping hazard.
- d. Where overhead holders are specified provide friction type at doors without closer and positive type at doors with closer.

XVIII. DOOR STOPS AND HOLDERS

1. Manufacturers:
 - a. Scheduled Manufacturer: Ives
 - b. Acceptable Manufacturers: Burns, Trimco
2. Provide door stops at each door leaf:
 - a. Provide wall stops wherever possible. Provide convex type where mortise type locks are used and concave type where cylindrical type locks are used.
 - b. Where a wall stop cannot be used, provide universal floor stops for low or high rise options.
 - c. Where wall or floor stop cannot be used, provide medium duty surface mounted overhead stop.

XIX. THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

1. Manufacturers:
 - a. Scheduled Manufacturer: Zero International
 - b. Acceptable Manufacturers: Pemko, Reese
2. Requirements:
 - a. Provide thresholds, weatherstripping (including door sweeps, seals, astragals) and gasketing systems (including smoke, sound, and light) as specified and per architectural details. Match finish of other items.
 - b. Size of thresholds:
 - i. Saddle Thresholds: 1/2 inch high by jamb width by door width
 - ii. Bumper Seal Thresholds: 1/2 inch high by 5 inches wide by door width
 - c. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.

XX. SILENCERS

1. Manufacturers:
 - a. Scheduled Manufacturer: Ives
 - b. Acceptable Manufacturers: Burns, Trimco
2. Requirements:
 - a. Provide "push-in" type silencers for hollow metal or wood frames.
 - b. Provide one silencer per 30 inches of height on each single frame, and two for each pair frame.
 - c. Omit where gasketing is specified.

XXI. MAGNETIC HOLDERS

1. Manufacturers:
 - a. Scheduled Manufacturer: LCN

- b. Acceptable Manufacturers: Rixson, Sargent
- 2. Requirements:
 - a. Provide wall or floor mounted electromagnetic door release as specified with minimum of 25 pounds of holding force. Coordination projection of holder and armature with other hardware and wall conditions to ensure that door sits parallel to wall when fully open. Wire magnetic holders on fire-rated doors into the fire control panel for fail-safe operation.

XXII. FINSHES

- 1. Finish: BHMA 626/652 (US26D); except:
 - a. Hinges at Exterior Doors: BHMA 630 (US32D)
 - b. Continuous Hinges: BHMA 628 (US28)
 - c. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
 - d. Protection Plates: BHMA 630 (US32D)
 - e. Overhead Stops and Holders: BHMA 630 (US32D)
 - f. Door Closers: Powder Coat to Match
 - g. Wall Stops: BHMA 630 (US32D)
 - h. Latch Protectors: BHMA 630 (US32D)
 - i. Weatherstripping: Clear Anodized Aluminum
 - j. Thresholds: Mill Finish Aluminum

C. PART 3 EXECUTION

I. EXAMINATION

- 1. Prior to installation of hardware, 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.
- 2. Existing Door and Frame Compatibility: Field verify existing doors and frames receiving new hardware and existing conditions receiving new openings. Verify that new hardware is compatible with existing door and frame preparation and existing conditions.
- 3. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- 4. Proceed with installation only after unsatisfactory conditions have been corrected.

II. PREPARATION

- 1. Where on-site modification of doors and frames is required:
 - a. Carefully remove existing door hardware and components being reused. Clean, protect, tag, and store in accordance with storage and handling requirements specified herein.
 - b. Field modify and prepare existing door and frame for new hardware being installed.
 - c. When modifications are exposed to view, use concealed fasteners, when possible.
 - d. Prepare hardware locations and reinstall in accordance with installation requirements for new door hardware and with:
 - i. Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.
 - ii. Wood Doors: DHI WDHS.5 "Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors."
 - iii. Doors in rated assemblies: NFPA 80 for restrictions on on-site door hardware preparation.

III. INSTALLATION

1. Mounting Heights: Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
 - a. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - b. Custom Steel Doors and Frames: HMMA 831.
 - c. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
2. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
3. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
4. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
5. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
6. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
7. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated or one hinge for every 30 inches of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
8. Intermediate Offset Pivots: Where offset pivots are indicated, provide intermediate offset pivots in quantities indicated in door hardware schedule but not fewer than one intermediate offset pivot per door and one additional intermediate offset pivot for every 30 inches of door height greater than 90 inches.
9. Lock Cylinders: Install construction cores to secure building and areas during construction period.
 - a. Replace construction cores with permanent cores as indicated in keying section.
10. Wiring: Coordinate with Division 26, ELECTRICAL sections for:
 - a. Conduit, junction boxes and wire pulls.
 - b. Connections to and from power supplies to electrified hardware.
 - c. Connections to fire/smoke alarm system and smoke evacuation system.
 - d. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
 - e. Testing and labeling wires with Architect's opening number.
11. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.
12. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Closers shall not be visible in corridors, lobbies and other public spaces unless approved by Architect.
13. Closer/holders: Mount closer/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
14. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.
 - a. Configuration: Provide least number of power supplies required to adequately serve doors with electrified door hardware.
15. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."

16. 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 may impede traffic or present tripping hazard.
17. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
18. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
19. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

IV. FIELD QUALITY CONTROL

1. Architectural Hardware Consultant: Engage qualified independent Architectural Hardware Consultant to perform inspections and to prepare inspection reports.
 - a. Architectural Hardware Consultant will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

V. ADJUSTING

1. 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.
 - a. Spring Hinges: Adjust to achieve positive latching when door is allowed to close freely from an open position of 30 degrees.
 - b. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
 - c. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
2. Occupancy Adjustment: Approximately three months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors, door hardware, and electrified door hardware.

VI. CLEANING AND PROTECTION

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

VII. DEMONSTRATION

1. Provide training for Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Refer to Division 01 Section "Demonstration and Training."

VIII. DOOR HARDWARE SCHEDULE

1. Locksets, exit devices, and other hardware items are referenced in the following hardware sets for series, type and function. Refer to the above-specifications for special features, options, cylinders/keying, and other requirements.

2. Hardware Sets:

Hardware Group No. 01

For use on Door #(s):

A101

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	224HD EPT		628	IVE
2	EA	POWER TRANSFER	EPT10 CON		✓ 689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB		689	VON
1	EA	ELEC PANIC HARDWARE	SD-RX-QEL-98-EO-CON 24 VDC		✓ 626	VON
1	EA	ELEC PANIC HARDWARE	SD-RX-QEL-98-NL-OP-110MD-CON 24 VDC		✓ 626	VON
1	EA	RIM CYLINDER	20-057 ICX		626	SCH
3	EA	MORTISE CYLINDER	20-061 ICX		626	SCH
4	EA	FSIC CORE	23-030 EV D		626	SCH
2	EA	90 DEG OFFSET PULL	8190EZHD 10" STD		630-316	IVE
2	EA	SURFACE CLOSER	4111 SCUSH		689	LCN
2	EA	KICK PLATE	8400 8" X 2" LDW B-CS		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER
1	EA	MULLION SEAL	8780NBK PSA		BK	ZER
2	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	65A		A	ZER
2	EA	WIRE HARNESS	CON-XXP (EPT/HINGE TO POWER SUPPLY)		✓	SCH
2	EA	WIRE HARNESS	CON-XXP (EXIT/LOCK TO EPT/HINGE)		✓	SCH
1	EA	MULTITECH READER	MTB11/15 AS REQ'D		✓ BLK	SCE
2	EA	DOOR CONTACT	679-05HM/WD AS REQD		✓ BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC		✓ LGR	SCE

ELECTRICAL OPERATIONAL DESCRIPTION: THE DOOR IS NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIALS TO THE READER WILL MOMENTARILY RETRACT THE LATCH, ALLOWING ENTRY. AFTER ENTRY THE DOOR RETURNS TO THE CLOSED AND LATCHED POSITION. A KEY OVERRIDE WILL ALSO ENABLE ENTRY. FROM THE NON-SECURE SIDE, PRESSING THE PUSH PAD RETRACTS LATCH ALLOWING EGRESS. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED. FREE EGRESS AT ALL TIMES. DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION. REQUEST TO EXIT (RX) FOR REMOTE MONITORING.

SD - SPECIAL CYLINDER DOGGING ALLOWS PUSH/PULL OPERATION FOR ARRIVAL AND DISMISSAL PURPOSES.

Hardware Group No. 02

For use on Door #(s):
A102

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224HD EPT		628	IVE
1	EA	POWER TRANSFER	EPT10 CON		✂ 689	VON
1	EA	EU MORTISE LOCK	L9092TEU 06A RX CON 12/24 VDC		✂ 626	SCH
1	EA	FSIC CORE	23-030 EV D		626	SCH
1	EA	SURFACE CLOSER	4111 SCUSH		689	LCN
1	EA	KICK PLATE	8400 8" X 2" LDW B-CS		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	65A		A	ZER
1	EA	WIRE HARNESS	CON-XXP (EPT/HINGE TO POWER SUPPLY)		✂	SCH
1	EA	WIRE HARNESS	CON-XXP (EXIT/LOCK TO EPT/HINGE)		✂	SCH
1	EA	MULTITECH READER	MTB11/15 AS REQ'D		✂ BLK	SCE
1	EA	DOOR CONTACT	679-05HM/WD AS REQD		✂ BLK	SCE
1	EA	POWER SUPPLY	PS902 120/240 VAC		✂ LGR	SCE

ELECTRICAL OPERATIONAL DESCRIPTION: THE DOOR IS NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIALS TO THE READER WILL MOMENTARILY UNLOCK THE LEVER, ALLOWING ENTRY. A KEY OVERRIDE WILL ALSO ENABLE ENTRY. FROM THE NON-SECURE SIDE, THE LEVER RETRACTS LATCH ALLOWING EGRESS. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES. THE DOOR POSITION SWITCH MONITORS THE DOOR FOR OPEN/CLOSED POSITION. REQUEST TO EXIT (RX) FOR REMOTE MONITORING.

Hardware Group No. 03

For use on Door #(s):
 A103

Provide each SGL door(s) with the following:

QTY	EA	DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224HD EPT		628	IVE
1	EA	POWER TRANSFER	EPT10 CON		✂ 689	VON
1	EA	EU MORTISE LOCK	L9092TEU 06A RX CON 12/24 VDC		✂ 626	SCH
1	EA	FSIC CORE	23-030 EV D		626	SCH
1	EA	SURFACE CLOSER	4111 SCUSH		689	LCN
1	EA	KICK PLATE	8400 8" X 2" LDW B-CS		630	IVE
3	EA	SILENCER	SR64/SR65 AS REQD		GRY	IVE
1	EA	WIRE HARNESS	CON-XXP (EPT/HINGE TO POWER SUPPLY)		✂	SCH
1	EA	WIRE HARNESS	CON-XXP (EXIT/LOCK TO EPT/HINGE)		✂	SCH
1	EA	MULTITECH READER	MTB11/15 AS REQ'D		✂ BLK	SCE
1	EA	DOOR CONTACT	679-05HM/WD AS REQD		✂ BLK	SCE
1	EA	POWER SUPPLY	PS902 120/240 VAC		✂ LGR	SCE

ELECTRICAL OPERATIONAL DESCRIPTION: THE DOOR IS NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIALS TO THE READER WILL MOMENTARILY UNLOCK THE LEVER, ALLOWING ENTRY. A KEY OVERRIDE WILL ALSO ENABLE ENTRY. FROM THE NON-SECURE SIDE, THE LEVER RETRACTS LATCH ALLOWING EGRESS. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES. THE DOOR POSITION SWITCH MONITORS THE DOOR FOR OPEN/CLOSED POSITION. REQUEST TO EXIT (RX) FOR REMOTE MONITORING.

END OF SECTION



Pre-Bid RFIs #

Date: 4/06/2026

1. Do we need Testing Adjusting Balancing for HVAC?
Testing, adjusting or balancing of HVAC systems or equipment is not required.
2. Will there be an alternate entrance for people who are voting to get to the polls?
There will be no alternate entrances provided for people going to the polls on Tuesday, June 23, 2026. The building will be closed to Contractors as indicated on the April 7, 2026 Pre-Bid Meeting agenda.
3. Due to the project size, the options for colored mortar will be subject to what is in stock. It is likely that the color could be off a few shades. Is there a particular manufacturer or color that is recommended?
Glen-Gery is the preferred colored mortar manufacturer for this project.
4. At the interior CMU wall where the new door is installed, the first course of SGFT shows a corner shape at the door jambs. It is very unlikely to find this color and shape in stock. The best solution would be salvaging the SGFT units during demolition and miter cut the pieces to make the return. Is this acceptable?
Utilizing miter cut pieces of salvaged SGFT units to make the return where the new door is to be installed is acceptable.
5. Can you confirm if the space between the new jamb receiver and existing glazing is to remain open? (See Jamb Detail 9 on sheet A2.1)
The space between the new jamb receiver and the existing glazing is to remain open as indicated on Jamb Detail 9/A2.1.
6. Are there any signage required (permanent or non-permanent), if so can you provide the specs for it? Also do we need construction signage?
Interior/Exterior way finding/room identification signage is to be provided by the Owner. Construction signage is not required.