

**GOVERNMENT HOSPITALS & HEALTH FACILITIES CORPORATION TERRITORIAL HOSPITAL  
REDEVELOPMENT TEAM**

4007 Estate Diamond Ruby  
Christiansted, VI 00821  
(340)-778-6311



9048 Sugar Estate  
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(340)776-8311

## Amendment Seven (7)

IFB-001-THRT-T-023 (C) Renovation of the Charlotte Kimelman Cancer Institute  
June 16, 2023

**I. Insert Questions and Answers:**

Questions	Answers
<p>Per Pre-Bid Meeting on 5/16/23, the Owner will contract directly with a medical equipment vendor to perform the following scope:</p> <ol style="list-style-type: none"> <li>1. Removal of existing medical equipment in Simulator Room &amp; ACC Vault.</li> <li>2. Procurement, delivery, and installation of new medical equipment.</li> </ol> <p>Please provide approximate delivery dates for new medical equipment, in order to coordinate with the construction schedule.</p>	<p><b>Estimate 10-12 months for delivery. Will have schedule coordination meeting with vendor upon award. Contractor to provide bid to demolish remaining casework / ceilings/ walls /finishes after removal of equipment per walkthrough. Contractor to provide add-alternate to remove all of the medical equipment in lieu of having vendor provide that service.</b></p>
<p>Please confirm that above ground sanitary waste, vent piping and storm drainage should be hubless, cast iron.</p>	<p><b>Yes-correct per spec 221316.</b></p>
<p>Do the water tanks need to be NFPA certified?</p>	<p><b>Yes.</b></p>
<p>It is unclear if we are required to install new exterior framing and drywall soffit at the drive-thru overhang. The reflected ceiling plan appears to indicate existing construction, but the sections show a heavier weight line that would imply new construction. Please clarify design intent.</p>	<p><b>Existing soffit framing and drywall to remain; provide new framing, drywall, and finish to match existing at area of new construction only.</b></p>

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<p>At existing exterior walls, interior face, it is unclear if the contractor needs to install any new drywall. Sections tend to indicate all existing construction is remaining except at locations where we demolish part of wall for structural work(as indicated by note #4/AD101). Please clarify that, in general, gypsum board on the inside face of exterior walls was removed as part of an earlier contract and needs to be replaced with new.</p>	<p><b>Refer to Renovation Note 3 on Project General Notes, sheet G003-1.</b></p>
<p>Refer to specification section 00 31 00 Available Project Information. 1.01.A conflicts with 1.01.B; please confirm that bidders may rely upon the geotechnical report provided with the bid documents.</p>	<p><b>The Geotech report from 2022 has been provided on Amendment Six (6). It is not part of the official contract documents.</b></p>
<p>Refer to specification section 13 49 13 Integrated X-Ray Shielding Assemblies. Please provide the referenced Radiation protection analysis so that door and frame manufacturers can properly prepare their bid pricing.</p>	<p><b>The analysis cannot be provided until final selection of equipment has been made and report created by the Owner's Physicist. Use 1/8" lead for full height of room for bid purposes.</b></p>
<p>Door Types SL-3 at Ante Room (C222) are shown as single-panel sliding breakaway doors on the plans; however, Spec 08 42 29, Par 3.07 calls for these doors to be two-panel telescoping breakaway doors. Plans indicate ductwork chases which two of these doors would extend into if they are to be two-panel telescoping doors. Therefore, we assume all of the SL-3 doors in this room are to be surface mounted single-panel sliding breakaway doors as indicated on the plans. Please clarify design intent.</p>	<p><b>These are to be single panel surface mounted doors; utilize Basis of Design product for more information.</b></p>

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<p>Door Types SL-3 are to be aluminum with an anodized finish; however, Spec 08 42 29, Par 2.06 calls for these doors to be stainless steel with a polished No. 8 finish. We assume these doors are to be anodized aluminum as called out in the Door Schedule. Please clarify design intent.</p>	<p><b>Disregard note 2.06 in regard to SL-3; finish to be clear anodized aluminum.</b></p>
<p>D1/A415 indicates the Linear Accelerator vault door is existing to remain. The door schedule does not have any notes about it being existing and the door tag (C162-A) and hardware spec (set 16) indicate it's a new door. All the other existing doors are listed as EX-## and they aren't shown on the schedule.</p>	<p><b>Design intent is for existing door to remain and be cleaned, with operator to be replaced.</b></p>
<p>Doors EX01 &amp; EX02 appear in plan at the main entrance, but are not on the door schedule. They appear to be the Type AE doors based on the floor plan, so this may be why the Door Type shows Type AE, but doesn't list on the Door Schedule. If these are existing to remain / reuse, is the contractor responsible for removal, storage, temp doors, and reinstallation for these doors. Please clarify design intent.</p>	<p><b>See Sheet Specific Note A on sheet A601. EX01 and 2 were removed and relocated after creation of construction documents and will not be returned to the project. New doors will be required per the note on A601.</b></p>
<p>Door C2C4A – Door Schedule doesn't call out the material, finish, glazing for doors and frames. Is it glass like the other Type AG doors?</p>	<p><b>Correct.</b></p>

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Door C141-SL – Door Schedule lists this door and shows door hardware only. We are unable to find this door on the plans. Based on the hardware set, it appears this is for the sliding window at Reception 141.	<b>Correct.</b>
Is the Linac vault door to be replaced? If so, please provide specifications. Spec 08 71 01, Hardware Sets, states that the hardware is by the door supplier.	<b>Design intent is for existing door to remain and be cleaned, with operator to be replaced.</b>
Type CC coiling counter door - shown as a Door Type in the legend, but is not identified on the Door Schedule or indicated in the plans. Is there a type CC door on this project and, if so, provide elevations or size to enable pricing.	<b>This type is not utilized in the project.</b>
What is WA icon on doors? I assume it's wave actuator based on the comments for some of these doors on the Door Schedule. This abbreviation is not listed in the architectural legend or hardware sets. It is neither shown on the electrical or technology drawings either.	<b>Refer to Project General Notes on G003-2 for Door and Hardware notes and abbreviations.</b>
Doors EX01 & EX02 are to receive WAs (which are assumed to be existing). If existing, what is the existing manufacturer and model?	<b>Provide new WAs to match the remainder of new control system/door hardware throughout the facility. See hardware specifications.</b>
There does not appear to be a specification for wave actuators, and electrical drawings show no line voltage power to wave actuator locations. Please confirm the wave actuators are battery powered and provide a specification.	<b>WA to be powered by low voltage from the door power supply in the com room. WA to be LCN 8310-813 per door hardware specifications.</b>

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<p>Specification section 08 71 01 is unreadable, as there are letters and numbers missing. Please reissue a corrected version of this section.</p>	<p><b>Section as it has been provided appears correctly on our system and printed. This section has been reprinted and provided separately as part of this response. See attached. Please provide follow up if it still seems partially printed.</b></p>
<p>Door Schedule abbreviations - There are a number of abbreviations in the Comments on the Door Schedule which are not listed on the page (OS, EO, AO). We are unable to determine if these are included in the hardware sets or additional items due to the missing letters / numbers in the Hardware Set spec.</p>	<p><b>Refer to Project General Notes on G003-2 for Door and Hardware notes and abbreviations.</b></p>

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SECTION 08 71 00  
DOOR HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Hardware for wood and hollow metal doors.
- B. Hardware for fire-rated doors.
- C. Electrically operated and controlled hardware.
- D. Weatherstripping and gasketing.

1.02 RELATED REQUIREMENTS

- A. Section 06 41 00 - Architectural Wood Casework: Cabinet hardware.
- B. Section 08 11 13 - Hollow Metal Doors and Frames.
- C. Section 08 14 16 - Flush Wood Doors.
- D. Section 28 10 00 - Access Control: Electronic access control devices.

1.03 REFERENCE STANDARDS

- A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design.
- B. ASTM E283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
- C. BHMA A156.1 - American National Standard for Butts and Hinges.
- D. BHMA A156.4 - American National Standard for Door Controls - Closers.
- E. BHMA A156.13 - American National Standard for Mortise Locks & Latches Series 1000.
- F. BHMA A156.16 - American National Standard for Auxiliary Hardware.
- G. BHMA A156.22 - American National Standard for Door Gasketing and Edge Seal Systems Sponsor.
- H. BHMA A156.25 - American National Standard for Electrified Locking Devices.
- I. BHMA A156.115 - American National Standard for Hardware Preparation in Steel Doors and Steel Frames.
- J. BHMA A156.115W - American National Standard for Hardware Preparation in Wood Doors with Wood or Steel Frames.
- K. DHI (H&S) - Sequence and Format for the Hardware Schedule.
- L. DHI (LOCS) - Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames.
- M. DHI WDHS.3 - Recommended Locations for Architectural Hardware for Flush Wood Doors.
- N. ICC A117.1 - Accessible and Usable Buildings and Facilities.
- O. ITS (DIR) - Directory of Listed Products.
- P. NFPA 70 - National Electrical Code.
- Q. NFPA 80 - Standard for Fire Doors and Other Opening Protectives.
- R. NFPA 101 - Life Safety Code.
- S. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies.
- T. TAS - Texas Accessibility Standards.
- U. UL (DIR) - Online Certifications Directory.

V. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies.

#### 1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate the manufacture, fabrication, and installation of products that door hardware is installed on.
- B. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.
- C. Convey Owner's keying requirements to hardware supplier.
- D. Electrical System Roughing-in: Coordinate layout and installation of electrified door hardware with connections to power supplies, fire alarm system and detection devices, access control system, security system, and building control system, as applicable.
  - 1. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.
- E. Coordinate installation of electrical wall holders provided by Division 26 with door hardware of this section.
- F. Keying Requirements Meeting:
  - 1. Schedule preinstallation meeting one week prior to commencing work of this section.
  - 2. Attendance Required by all affected installers.

#### 1.05 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project, and includes construction details, material descriptions, finishes, and dimensions and profiles of individual components.
  - 1. Organize catalog cut sheets into sets and include a set with each copy of the Hardware Schedule submitted.
- C. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other Work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- D. Shop Drawings - Door Hardware Schedule: Submit detailed listing that includes each item of hardware to be installed on each door. Use door numbering scheme as included in Contract Documents.
  - 1. Prepared by or under supervision of Architectural Hardware Consultant (AHC).
  - 2. Comply with DHI (H&S) using door numbers and hardware set numbers as indicated in construction documents.
  - 3. List groups and suffixes in proper sequence.
  - 4. Provide complete description for each door listed.
  - 5. Content: Include the following information:
    - a. Type, style, function, size, label, hand, and finish of each door hardware item.
    - b. Complete designations of every item required for each door or opening including name and manufacturer.
    - c. Fastenings and other pertinent information.
    - d. Location of each door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule. Use same scheduling sequence and format and use same door numbers and hardware set numbers as in the Contract Documents.
    - e. Explanation of abbreviations, symbols, and codes contained in schedule.
    - f. Mounting locations for door hardware.

- g. Door and frame sizes and materials.
  - h. Description of each electrified door hardware function, including location, sequence of operation, and interface with other building control systems.
  - i. Indicate locations and mounting heights of each type of hardware, electrical characteristics and connection requirements .
- E. Shop Drawings - Electrified Door Hardware: Submit diagrams for power, signal, and control wiring for electrified door hardware that include details of interface with building safety and security systems. Provide elevations and diagrams for each electrified door opening as follows:
  - 1. Prepared by or under supervision of Architectural Hardware Consultant (AHC) and Electrified Hardware Consultant (EHC).
  - 2. Elevations: Submit front and back elevations of each door opening showing electrified devices with connections installed and an operations narrative describing how opening operates from either side at any given time.
  - 3. Diagrams: Submit point-to-point wiring diagram that shows each device in door opening system with related colored wire connections to each device. Submit Wiring Diagrams with Hardware Schedule. Verify and coordinate with the electrical systems installer. Integration shall take effect into central system as specified by Owner.
    - a. Operation Narrative: Describe the operation of doors controlled by electrified door hardware.
- F. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- G. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
  - 1. Submit manufacturer's parts lists and templates.
  - 2. Bitting List: List of combinations as furnished.
- H. Hardware Schedule: Detailed listing of each item of hardware to be installed on each door. Use door numbering scheme as included in the Contract Documents. Identify electrically operated items and include power requirements.
- I. Keying Schedule:
  - 1. Submit three (3) copies of Keying Schedule in compliance with requirements established during Keying Requirements Meeting unless otherwise indicated.
- J. Keys: Deliver with identifying tags to Owner by security shipment direct from hardware manufacturer.
- K. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
- L. Project Record Documents: Record actual locations of concealed equipment, services, and conduit.
- M. Quality Control Certification: Contractor's written certification of electrified door hardware coordination.

#### 1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified for commercial door hardware with at least three years of documented experience.
- C. Supplier Qualifications: Company specializing in supplying commercial door hardware with five years of experience and who has a factory direct purchasing agreement in good standing with the Owner's masterkey system supplier.



- D. Hardware Supplier Personnel: Employ an Architectural Hardware Consultant (AHC) to assist in the work of this section.
  - 1. Hardware schedule prepared by person holding current AHC certificate or equivalent.
- E. Electrified Door Hardware: A qualified person who is experienced in providing and coordinating consulting services for electrified door hardware installations.
  - 1. Coordinate with Division 26 for power requirements.
  - 2. Coordinate with Fire Alarm and Security System Installers for interface requirements.
  - 3. Installation and wiring of card access locksets performed by Lenel trained hardware installer, except for 120V wiring to power supplies.
  - 4. Submit certification on letterhead reading:
    - a. I, \_\_\_\_\_ have reviewed electrical characteristics, wiring requirements and components of electrically operated security devices, i.e., electric locks, electric hinges, electric strikes, magnetic locks, door position switches, automatic door operators, elevator controls, fire alarm system relay configurations, to be installed in the Project, and have incorporated modifications and revisions to provide a complete coordinated and functional access control system.
- F. Source Limitations: Obtain each type and variety of door hardware from the same single source manufacturer and supplier, unless otherwise indicated.
  - 1. Provide electrified door hardware from the same manufacturer as specified mechanical door hardware, unless otherwise indicated. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
  - 2. Provide standard door hardware, electrified door hardware and access control door hardware as a single sourced package from the same qualified supplier.
  - 3. Provide exterior door hardware from the same manufactures as the interior door hardware, no deviations will be allowed.

#### 1.07 KEYING CONFERENCE

- A. Conduct conference at Project site in accordance with Section 01 70 00. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:
  - 1. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
  - 2. Preliminary key system schematic diagram.
  - 3. Requirements for key control system.
  - 4. Address for delivery of keys.
- B. Do not order keys or cylinders without written confirmation of actual requirements from the Owner.

#### 1.08 DELIVERY, STORAGE, AND HANDLING

- A. Package hardware items individually; label and identify each package with door opening code to match door hardware schedule.
- B. Store hardware in separate lockable storage area.

#### 1.09 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Warranty against defects in material and workmanship for period indicated, from Date of Substantial Completion.
  - 1. Door Closers: Twenty five year period.
  - 2. Electromechanical Door Hardware: Two year period.

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## PART 2 PRODUCTS

### 2.01 SCHEDULED DOOR HARDWARE

- A. General: Schedule and provide door hardware for each door listed in the Framed Opening Schedule to comply with the requirements in this section and door hardware sets listed at the end of this section.

### 2.02 DESIGN AND PERFORMANCE CRITERIA

- A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.
- B. Provide individual items of single type, of same model, and by same manufacturer.
- C. Provide door hardware products that comply with the following requirements:
  - 1. Applicable provisions of federal, state, and local codes.
  - 2. Accessibility Compliance: Comply with TAS, ADA Standards and ICC A117.1 and applicable building codes, unless otherwise indicated; in the event of conflicting requirements, comply with the most comprehensive and specific requirements.
  - 3. Applicable provisions of NFPA 101.
  - 4. Fire-Rated Doors: NFPA 80, listed and labeled by qualified testing agency for fire protection ratings indicated, based on testing at positive pressure in accordance with NFPA 252 or UL 10C.
  - 5. Hardware on Fire-Rated Doors: Listed and classified by UL (DIR), ITS (DIR), or testing firm acceptable to authorities having jurisdiction as suitable for application indicated.
  - 6. Auxiliary Hardware: BHMA A156.16.
  - 7. Hardware Preparation for Steel Doors and Steel Frames: BHMA A156.115.
  - 8. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.
  - 9. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified. Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- D. Electrically Operated and/or Controlled Hardware: Provide necessary power supplies, power transfer hinges, relays, and interfaces as required for proper operation; provide wiring between hardware and control components and to building power connection in compliance with NFPA 70.
  - 1. Refer to Section 28 10 00 for additional access control system requirements.
- E. Lock Function: Provide lock and latch function numbers and descriptions of manufacturer's series. Refer to Door Hardware Schedule.
- F. Finishes: Identified in hardware schedule.
- G. Fasteners:
  - 1. Provide fasteners of proper type, size, quantity, and finish that comply with commercially recognized standards for proposed applications.
    - a. Aluminum fasteners are not permitted.
    - b. Provide phillips flat-head screws with heads finished to match door surface hardware unless otherwise indicated.
  - 2. Provide stainless steel machine screws and lead expansion shields for concrete and masonry substrates.
  - 3. Fire-Rated Applications: Comply with NFPA 80.
    - a. Provide wood or machine screws for hinges mortised to doors or frames, strike plates to frames, and closers to doors and frames.
    - b. Provide steel through bolts for attachment of surface mounted closers, hinges, or exit devices to door panels unless proper door blocking is provided.

## 2.03 HINGES

- A. Manufacturers:
  - 1. McKinney; an Assa Abloy Group company: [www.assaabloydss.com](http://www.assaabloydss.com).
  - 2. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Hinges: Complying with BHMA A156.1.
  - 1. Provide hinges on every swinging door.
  - 2. Provide non-removable pins on interior outswinging doors at locations as indicated.
    - a. Non-removeable Pins (NRP): Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed for the following applications.
      - 1) Out-swinging exterior doors.
      - 2) Out-swinging access controlled doors.
  - 3. Provide following quantity of butt hinges for each door:
    - a. Doors up to 60 inches High: Two hinges.
    - b. Doors From 60 inches High up to 90 inches High: Three hinges.

## 2.04 MORTISE LOCKS

- A. Mortise Locks: Comply with BHMA A156.13, Grade 1, Security, 1000 Series.

## 2.05 ELECTROMECHANICAL LOCKS

- A. Manufacturers:
  - 1. McKinney; an Assa Abloy Group company: [www.assaabloydss.com](http://www.assaabloydss.com).
- B. Electromechanical Locks: Comply with BHMA A156.25, Grade 1.
  - 1. Electrified Options: As indicated in hardware sets, provide electrified lock options including: outside door trim control, latchbolt and lock/unlock status monitoring, and request-to-exit signaling.
  - 2. Configuration: Fail-secure.

## 2.06 CLOSERS

- A. Manufacturers; Surface Mounted:
  - 1. Sargent; an Assa Abloy Group company: [www.assaabloydss.com](http://www.assaabloydss.com).
    - a. Heavy Duty Series: 350/351 with heavy duty arms.
- B. Closers: Comply with BHMA A156.4, Grade 1.
  - 1. Type: Surface mounted to door, unless otherwise indicated.
  - 2. Provide a door closer at doors with panic/exit devices.
  - 3. Provide a door closer at mechanical, electrical, and telephone room doors.
  - 4. Provide adapter plates and blade stop spacers as required by door and frame conditions.
- C. Certification: Certified by independent testing laboratory to exceed ten million full load cycles.
- D. Closing Power Adjustment: Provide adjustment for the minimum closing force necessary to close and latch the following doors. Provide separate adjustment for latch speed, general speed, and back check.
  - 1. Fire and smoke rated doors.
- E. Mounting: Non-handed, surface-applied, out of public view.
  - 1. Through-bolted installation with sex bolts only at custom steel doors.
- F. Body Material: Cast metal body with forged arms.
- G. Cover Material, Finish: Plastic covers with positive screw on fastening.
- H. Hydraulic Fluid: Type requiring no seasonal closer adjustment.
  - 1. Rated Openings: Provide with temperature stabilizing fluid in compliance with UBC 7-2 and UL 10C.

- I. Operation: Fully hydraulic, full rack and pinion action; piston diameter 1-1/2-inch.

## 2.07 WALL STOPS

- A. Manufacturers:
  - 1. Rockwood; an Assa Abloy Group company: [www.assaabloydss.com](http://www.assaabloydss.com).
  - 2. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Wall Stops: Comply with BHMA A156.16, Grade 1 and Resilient Material Retention Test as described in this standard.

## 2.08 WEATHERSTRIPPING AND GASKETING

- A. Weatherstripping and Gasketing: Comply with BHMA A156.22.
  - 1. Air leakage not to exceed 0.50 cfm per foot of crack length for gasketing other than for smoke control, as tested according to ASTM E283.

## 2.09 FINISHES

### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify that doors and frames are ready to receive this work; labeled, fire-rated doors and frames are properly installed, and dimensions are as indicated on shop drawings.
- B. Verify that electric power is available to power operated devices and of correct characteristics.

#### 3.02 PREPARATION

- A. Steel Doors and Frames: Comply with BHMA A156.115.
- B. Wood Doors: Comply with BHMA A156.115W.

#### 3.03 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and applicable codes.
- B. Install hardware on fire-rated doors and frames in accordance with applicable codes and NFPA 80.
- C. Use templates provided by hardware item manufacturer.
- D. Do not install surface mounted items until application of finishes to substrate are fully completed.
- E. Cut and fit substrate to avoid substrate damage and weakening. Cover cut-out with hardware item. Mortise work in correct locations and size, without gouges, splintering, or causing irregularities in finished work.
- F. Door Hardware Mounting Heights: Distance from finished floor to center line of hardware item. As indicated in following list; unless noted otherwise in Door Hardware Schedule or on drawings.
  - 1. For Steel Doors and Frames: Install in compliance with DHI (LOCS) recommendations.
  - 2. For Wood Doors: Install in compliance with DHI WDHS.3 recommendations.
- G. Boxed Power Supplies and Terminal Interface Enclosures: Locate power supplies and terminal interface enclosures as indicated or, if not indicated, above accessible ceilings. Verify location with Architect prior to installation.
- H. Gaskets: Install jamb-applied gaskets before closers, overhead stops, rim strikes, etc; fasten hardware over and through these seals.
- I. Furnish proper lubricant, graphite or special oil to installer.
- J. Existing frames and doors retrofitted with new hardware:
  - 1. Field-verify conditions and dimensions prior to ordering hardware. Fill existing hardware cut outs not being reused by new hardware. Remove existing hardware not being reused, return to Owner unless directed otherwise.

2. Remove existing floor closers not scheduled for reuse, fill cavities with concrete and finish smooth
3. Cut and weld existing steel frames currently prepared with 2.25 inch height strikes. Cut an approx. 8 inch section from the strike jamb and weld in a reinforced section to accommodate specified hardware's strike.
4. Patch and weld flush filler pieces into existing door hardware preparations in steel doors and frames, leave surfaces smooth.
5. Glue in solid wood block fillers to fill cut outs in existing wood doors, sand surfaces smooth. Alternatively, use an approved epoxy-based wood filler product, submit product data for approval.

### 3.04 FIELD QUALITY CONTROL

- A. Perform field inspection and testing under provisions of Section 01 40 00 - Quality Requirements.
- B. Provide an Architectural Hardware Consultant (AHC) to inspect installation and certify that hardware and installation has been furnished and installed in accordance with manufacturer's instructions and as specified.
- C. Provide an Access Control System Consultant to inspect integrated electronic and access control hardware and state in report whether installed work complies with or deviates from requirements, including whether electronic and access control hardware is properly installed and performing according to system operational descriptions.
  1. Inspection: Verify that units and controls are properly installed, connected, labeled and that interconnecting wires and terminals are identified.
  2. Pre-testing: Program and adjust the system and pretest all components, wiring, and functions to verify they conform to specified requirements. Replace malfunctioning or damaged items with new items.
  3. Acceptance Test Schedule: Schedule tests after pre-testing has been successfully completed and system has been in normal functional operation for at least 2 weeks.
  4. Retest: Correct deficiencies identified by tests and observations and retest until specified requirements are met.

### 3.05 ADJUSTING

- A. Adjust work under provisions of Section 01 70 00 - Execution and Closeout Requirements.
- B. 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.
  1. Interior Door Opening Force: Adjust hardware operation at interior non-fire-rated doors to provide an opening force not greater than 5 lbs. at a point 3 inch from latch, measured to leading edge of door.
  2. Exterior and Fire Rated Door Opening Force: At exterior doors and fire-rated doors, adjust hardware opening force in small increments above the opening force required for interior non-fire-rated doors to close and latch the door.
  3. Closer Sweep Adjustment: Adjust closer sweep period so that from a 70 degree open position, door will take at least 3 seconds to move to a point 3 inch from latch, measured to leading edge of door.
  4. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
- C. At completion of the installation and prior to Substantial Completion, make final adjustments to door closures and other items of hardware. Leave all hardware clean and fully operable. Should any item be found to be defective, it shall be repaired or replaced as directed.
- D. Occupancy Adjustment: Approximately three months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust, including adjusting

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operating forces, each item of door hardware as necessary to ensure function of doors, door hardware, and electrified door hardware.

- E. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.

### 3.06 CLEANING

- A. Clean finished hardware in accordance with manufacturer's written instructions after final adjustments have been made.
- B. Clean adjacent surfaces soiled by hardware installation.
- C. Replace items that cannot be cleaned to manufacturer's level of finish quality at no additional cost.

### 3.07 PROTECTION

- A. Protect finished Work under provisions of Section 01 70 00 - Execution and Closeout Requirements.
- B. Do not permit adjacent work to damage hardware or finish.

### 3.08 SCHEDULE

- A. Refer to Drawings for Hardware Schedule.
- B. The scheduled hardware sets represent the design intent and direction of the Owner and Architect. They are guidelines only and should not be considered a detailed hardware schedule. Notify the Architect in writing of discrepancies, conflicting hardware and missing items prior to bidding.
- C. Should a discrepancy between the door schedule and noted opening hardware set disagree in themselves, or with each other, the bid, and thereby the Contract shall be based on the more expensive combination of quality and quantity of Work indicated. In the event of the above-mentioned disagreement, the Architect shall determine the appropriate Work.
- D. If an opening number does not have a hardware set number indicated, then a similar hardware set shall be used for the opening number in question, no deviations will be accepted after bid date. Scheduled hardware sets establish the base requirements and shall be augmented by the supplier as appropriate in meeting applicable Building Codes, Life Safety and Occupancy sheets, Security sheets and fire rating requirements as indicated in the drawings.

END OF SECTION

SECTION 08 71 01

HARDWARE SETS

1.01 HARDWARE SCHEDULE

Hardware Group No. 01

C1S2-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	FIRE EXIT HARDWARE	HH-98-EO-F-SNB	630	VON
1	EA	SURFACE CLOSER W/STOP	4050A SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142AA (IF EXPOSED ABOVE)	AA	ZER
1	SET	GASKETING	PS-074		STE
1	EA	DOOR SWEEP	FAS-SEAL		STE
1	EA	THRESHOLD	655A	A	ZER

Hardware Group No. 01-B1

C1U6-A

C1U6-B

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY	628	IVE
2	EA	SURFACE BOLT	SB360 12" T	604	IVE
1	EA	STOREROOM W/DEADBOLT	L9480T 17A 09-544	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	MOUNTING BRACKET AS REQUIRED TO SUIT	MB AS REQ'D TO SUIT	BLK	IVE
2	EA	SURFACE CLOSER	4050A SCUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142AA (IF EXPOSED ABOVE)	AA	ZER
1	SET	GASKETING	PS-074		STE
1	EA	DOOR SWEEP	FAS-SEAL		STE
1	EA	THRESHOLD	655A	A	ZER
2	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	BLK	SCE

NOTE: COORDINATE WITH STRUCTURAL ON FRAME

Hardware Group No. 02-A

RLSH-1

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
2	EA	POWER TRANSFER	EPT10 CON	✓ 689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-9827-EO-LBR-CON 24 VDC	✓ 626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-9827-L-NL-LBR-17-CON 24 VDC	✓ 626	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	MAGNETIC LOCK	M490P 12/24 VDC	✓ 628	SCE
2	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	BY DOOR SUPPLIER	ASTRAGAL		BYO
1	EA	THRESHOLD	8655A	A	ZER
2	EA	WIRE HARNESS (LENGTH AS REQ'D)	CON-XX(HINGE FRAME TO POWER SUPPLY)	✓	SCH
2	EA	WIRE HARNESS (LENGTH AS REQ'D)	CON-XX(LOCK/EXIT TO HINGE FRAME)	✓	SCH
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	POWER SUPPLY	✓	
1	EA	PUSH BUTTON	621GIDEX 12/24 VDC	✓ 626	SCE
2	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	✓ BLK	SCE
2	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	✓	

ELECTRICAL OPERATIONAL DESCRIPTION:

DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIALS FROM EITHER SIDE TO THE READER WILL MOMENTARILY RELEASE THE MAG LOCK AND RETRACT THE LATCH ON THE EXIT DEVICES, ALLOWING ENTRY. AFTER ENTRY THE DOOR RETURNS TO THE CLOSED AND LATCHED POSITION. IN THE EVENT OF A LIFE SAFETY ALARM, MAG LOCKS RELEASE. PUSH BUTTON FOR REDUDANT RELEASE.

DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION. REQUEST TO EXIT (RX) FOR REMOTE MONITORING.



Hardware Group No. 04

C1C3-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10 CON	✎ 689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-HW-35A-NL-OP-388-299- CON 24 VDC	✎ 626	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	90 DEG OFFSET PULL	8190EZHD 18" STD	630- 316	IVE
1	EA	SURFACE CLOSER W/STOP	4050A SCUSH	689	LCN
1	EA	MOUNTING PLATE	4050A-18	689	LCN
1	EA	BRACKET/PLATE	4050A-XX	689	LCN
1	EA	BY ALUM DOOR/FRAME MANUFACTURER	WEATHERSTRIPPING		BYO
1	EA	WIRE HARNESS	CON-XX(HINGE FRAME TO POWER SUPPLY)	✎	SCH
1	EA	WIRE HARNESS	CON-XX(LOCK/EXIT TO HINGE FRAME)	✎	SCH
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	POWER SUPPLY	✎	
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	✎ BLK	SCE
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	✎	

COORDINATE ALL FEMA WIND/HURRICANE REQUIREMENTS WITH ALUM DOOR MFG

ELECTRICAL OPERATIONAL DESCRIPTION:

DOOR NORMALLY CLOSED AND LOCKED.

INGRESS: 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 ALLOWS UNDOCUMENTED ENTRY.

EGRESS: PRESSING THE PUSH PAD RETRACTS LATCH ALLOWING EGRESS.

DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES.

DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION. REQUEST TO EXIT (RX) FOR REMOTE MONITORING.

Hardware Group No. 05

C1C5-B            C110-A            C114-A            C114A-A            C115-A            C206-A  
 Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
EA	QTY AS REQ'D	RIM OR MORTISE CYLINDER W/CONS CORE AS REQ'D TO SUIT	626	SCH
EA	FSIC CORE(QTY AS REQ'D)	23-030	626	SCH
BALANCE OF HARDWARES BY GLASS DOOR MANUFACTURER				

Hardware Group No. 05-A

C1C2-A            C1C5-A            C2C5-A            C2C4-A  
 Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
EA	FSIC CORE(QTY AS REQ'D)	23-030	626	SCH
EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	✈	
EA	TO MATCH FACILITY KEYING(QTY AS REQ'D)	FSIC CYLINDER W/CONS CORE AS REQ'D TO SUIT	626	SCH
BALANCE OF HARDWARES BY GLASS DOOR MANUFACTURER				

ACCESS CONTROL HARDWARE TO BE SUPPLIED BY DOOR SUPPLIER

Hardware Group No. 06

C135-A            C234-A  
 Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA PASSAGE SET	L9010 17A	626	SCH
1	EA SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA WALL STOP	WS406/407CCV	626	IVE
3	EA SILENCER	SR64	GRY	IVE

Hardware Group No. 07

C111-A            C121-A            C122-A            C123-A            C124-A            C125-A  
 C126-A            C131-A            C132-A            C133-A            C134-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050T 17A 09-544	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

Hardware Group No. 07-A

C243-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050T 17A 09-544	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

Hardware Group No. 07-B

C110A-A            C111A-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050T 17A 09-544	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	OH STOP	90S	630	GLY
1	EA	GASKETING	188SBK PSA	BK	ZER

Hardware Group No. 07-C

C241-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050T 17A 09-544	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

Hardware Group No. 08

C163-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PIVOT SET	7226 SET	626	IVE
1	EA	INTERMEDIATE PIVOT	7226 INT	626	IVE
1	EA	CLASSROOM LOCK	L9070T 17A XL11-515	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-NH-A	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR BOTTOM	350AA	AA	ZER

Hardware Group No. 08-A

C152-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PIVOT SET	7226F SET	630	IVE
1	EA	INTERMEDIATE PIVOT	7226F INT	630	IVE
1	EA	CLASSROOM LOCK	L9070T 17A XL11-515	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-NH-A	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR BOTTOM	350AA	AA	ZER

Hardware Group No. 09

C1U2-A            C1U3-A            C1U4-A            C1U5-A  
 Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM W/DEADBOLT	L9480T 17A 09-544	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4050A SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	GASKETING	PS-074		STE
1	EA	DOOR SWEEP	FAS-SEAL		STE
1	EA	THRESHOLD	655A	A	ZER

Hardware Group No. 09-A

C1U2-B            C250A-A  
 Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	L9070T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	OH STOP	90S	630	GLY
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 10

C1U1-A  
 Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	LD-HH-98-L-NL-17-299F-SNB	626	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER W/STOP	4050A SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	GASKETING	PS-074		STE
1	EA	DOOR SWEEP	FAS-SEAL		STE
1	EA	THRESHOLD	655A	A	ZER

Hardware Group No. 11

C163B-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PIVOT SET	7226 SET	626	IVE
1	EA	INTERMEDIATE PIVOT	7226 INT	626	IVE
1	EA	PRIVACY W/COIN TURN	L9044 17A 09-544 XL11-515	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-NH-A	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-NH-A	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	COAT AND HAT HOOK	582	626	IVE

Hardware Group No. 11-A

C103-A            C104-A            C203-A            C204-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	L9040 17A 09-544 L283-722	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	COAT AND HAT HOOK	582	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 11-B

C165-A            C166-A            C167-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	L9040 17A 09-544 L283-722	626	SCH
1	EA	WALL STOP	WS406/407CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 11-C

C127-A            C146A-A            C232-A            C243A-A  
 Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	L9040 17A 09-544 L283-722	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	COAT AND HAT HOOK	582	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 11-D

C147A-A            C151-A  
 Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	PRIVACY W/COIN TURN	L9044 17A 09-544	626	SCH
1	EA	OH STOP	90S	630	GLY
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	COAT AND HAT HOOK	582	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 11-G

C242A-A  
 Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	PRIVACY W/COIN TURN	L9044 17A 09-544 L283-722	626	SCH
1	EA	SURFACE CLOSER	4050A SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	COAT AND HAT HOOK	582	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 11-G1

C214A-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	PRIVACY W/COIN TURN	L9044 17A 09-544 L283-722	626	SCH
1	EA	OH STOP	90S	630	GLY
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	COAT AND HAT HOOK	582	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 11-H

C164-A            C212-A            C216-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	PRIVACY W/COIN TURN	L9044 17A 09-544 L283-722	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	COAT AND HAT HOOK	582	626	IVE
3	EA	SILENCER	SR64	GRY	IVE



Hardware Group No. 13

C1C7-A            C1C7-B            C2C3-A  
 Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	ELECTRIC STRIKE	6210 FSE CON 12/16/24/28 VAC/VDC	⚡ 630	VON
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	⚡ BLK	SCE
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	⚡	
1		POWER SUPPLY TO BE COORDINATED WITH ACCESS CONTROL SYSTEM SUPPLIER	CENTRALIZED POWER SUPPLY		

ELECTRICAL OPERATIONAL DESCRIPTION:

DOOR NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIAL TO CARD READER RELEASES ELECTRIC STRIKE 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, LEVER RETRACTS THE LATCH. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES.  
 DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION.

Hardware Group No. 13-A1

C1C4-A            C1C6-A            C2C4-B  
 Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	ELECTRIC STRIKE	6210 FSE CON 12/16/24/28 VAC/VDC	⚡ 630	VON
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	⚡ BLK	SCE
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	⚡	
1		POWER SUPPLY TO BE COORDINATED WITH ACCESS CONTROL SYSTEM SUPPLIER	CENTRALIZED POWER SUPPLY		

ELECTRICAL OPERATIONAL DESCRIPTION:

DOOR NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIAL TO CARD READER RELEASES ELECTRIC STRIKE 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, LEVER RETRACTS THE LATCH. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES.  
 DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION.

Hardware Group No. 13-B

C251-B  
 Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	PANIC HARDWARE	98-L-17	626	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 13-C

C128-A C156-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L9070T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 13-D

C155A-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	L9070T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER W/STOP	4050A SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 13-E

C153-A RLSH-2

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 13-E1

C221A-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 13-F

C146-A            C213-A            C215-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	ELECTRIC STRIKE	6210 FSE CON 12/16/24/28 VAC/VDC	⚡ 630	VON
1	EA	SURFACE CLOSER	4050A DEL RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	⚡ BLK	SCE
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	⚡	
1		POWER SUPPLY TO BE COORDINATED WITH ACCESS CONTROL SYSTEM SUPPLIER	CENTRALIZED POWER SUPPLY		

ELECTRICAL OPERATIONAL DESCRIPTION:

DOOR NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIAL TO CARD READER RELEASES ELECTRIC STRIKE 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, LEVER RETRACTS THE LATCH. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES.

DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION.

Hardware Group No. 13-F1

C221-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	ELECTRIC STRIKE	6210 FSE CON 12/16/24/28 VAC/VDC	⚡ 630	VON
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	⚡ BLK	SCE
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	⚡	
1		POWER SUPPLY TO BE COORDINATED WITH ACCESS CONTROL SYSTEM SUPPLIER	CENTRALIZED POWER SUPPLY		

ELECTRICAL OPERATIONAL DESCRIPTION:

DOOR NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIAL TO CARD READER RELEASES ELECTRIC STRIKE 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, LEVER RETRACTS THE LATCH. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES.

DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION.

Hardware Group No. 13-F2

C1T1-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	ELECTRIC STRIKE	6210 FSE CON 12/16/24/28 VAC/VDC	⚡ 630	VON
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	⚡ BLK	SCE
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	⚡	
1		POWER SUPPLY TO BE COORDINATED WITH ACCESS CONTROL SYSTEM SUPPLIER	CENTRALIZED POWER SUPPLY		

**ELECTRICAL OPERATIONAL DESCRIPTION:**

DOOR NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIAL TO CARD READER RELEASES ELECTRIC STRIKE 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, LEVER RETRACTS THE LATCH. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES.  
 DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION.

Hardware Group No. 13-G

C233-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	ELECTRIC STRIKE	6210 FSE CON 12/16/24/28 VAC/VDC	⚡ 630	VON
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4050A DEL RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	⚡ BLK	SCE
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	⚡	
1		POWER SUPPLY TO BE COORDINATED WITH ACCESS CONTROL SYSTEM SUPPLIER	CENTRALIZED POWER SUPPLY		

ELECTRICAL OPERATIONAL DESCRIPTION:

DOOR NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIAL TO CARD READER RELEASES ELECTRIC STRIKE 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, LEVER RETRACTS THE LATCH. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES.

DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION.

Hardware Group No. 13-G1

C1E1-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	ELECTRIC STRIKE	6210 FSE CON 12/16/24/28 VAC/VDC	⚡ 630	VON
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	⚡ BLK	SCE
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	⚡	
1		POWER SUPPLY TO BE COORDINATED WITH ACCESS CONTROL SYSTEM SUPPLIER	CENTRALIZED POWER SUPPLY		

ELECTRICAL OPERATIONAL DESCRIPTION:

DOOR NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIAL TO CARD READER RELEASES ELECTRIC STRIKE 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, LEVER RETRACTS THE LATCH. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES.  
 DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION.

Hardware Group No. 13-H1

C205-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE



Hardware Group No. 13-I2

C142-A            C231-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	ELECTRIC STRIKE	6210 FSE CON 12/16/24/28 VAC/VDC	⚡ 630	VON
1	EA	SURFACE CLOSER	4050A DEL RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	⚡ BLK	SCE
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	⚡	
1		POWER SUPPLY TO BE COORDINATED WITH ACCESS CONTROL SYSTEM SUPPLIER	CENTRALIZED POWER SUPPLY		

ELECTRICAL OPERATIONAL DESCRIPTION:

DOOR NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIAL TO CARD READER RELEASES ELECTRIC STRIKE 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, LEVER RETRACTS THE LATCH. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES.

DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION. REQUEST TO EXIT (RX) FOR REMOTE MONITORING.

Hardware Group No. 13-K

C2T1-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	ELECTRIC STRIKE	6210 FSE CON 12/16/24/28 VAC/VDC	⚡ 630	VON
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	⚡ BLK	SCE
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	⚡	
1		POWER SUPPLY TO BE COORDINATED WITH ACCESS CONTROL SYSTEM SUPPLIER	CENTRALIZED POWER SUPPLY		

**ELECTRICAL OPERATIONAL DESCRIPTION:**

DOOR NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIAL TO CARD READER RELEASES ELECTRIC STRIKE 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, LEVER RETRACTS THE LATCH. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES.  
 DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION.

Hardware Group No. 13-M

C2E1-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	ELECTRIC STRIKE	6210 FSE CON 12/16/24/28 VAC/VDC	⚡ 630	VON
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	⚡ BLK	SCE
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	⚡	
1		POWER SUPPLY TO BE COORDINATED WITH ACCESS CONTROL SYSTEM SUPPLIER	CENTRALIZED POWER SUPPLY		

**ELECTRICAL OPERATIONAL DESCRIPTION:**

DOOR NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIAL TO CARD READER RELEASES ELECTRIC STRIKE 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, LEVER RETRACTS THE LATCH. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES.

DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION.

Hardware Group No. 13-N

C208-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	ELECTRIC STRIKE	6210 FSE CON 12/16/24/28 VAC/VDC	⚡ 630	VON
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	⚡ BLK	SCE
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	⚡	
1		POWER SUPPLY TO BE COORDINATED WITH ACCESS CONTROL SYSTEM SUPPLIER	CENTRALIZED POWER SUPPLY		

ELECTRICAL OPERATIONAL DESCRIPTION:

DOOR NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIAL TO CARD READER RELEASES ELECTRIC STRIKE 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, LEVER RETRACTS THE LATCH. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES.  
 DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION.

Hardware Group No. 13-O

C252-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	ELECTRIC STRIKE	6210 FSE CON 12/16/24/28 VAC/VDC	⚡ 630	VON
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	⚡ BLK	SCE
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	⚡	
1		POWER SUPPLY TO BE COORDINATED WITH ACCESS CONTROL SYSTEM SUPPLIER	CENTRALIZED POWER SUPPLY		

ELECTRICAL OPERATIONAL DESCRIPTION:

DOOR NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIAL TO CARD READER RELEASES ELECTRIC STRIKE 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, LEVER RETRACTS THE LATCH. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES.  
 DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION.

Hardware Group No. 14

C155-A

Provide each CO door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CASED OPENINGS	NO HARDWARE PROVIDED		BYO

Hardware Group No. 15

C143-A            C145-A            C147-A  
Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	PASSAGE SET	L9010 17A	626	SCH
1	EA	OH STOP	90S	630	GLY
1	EA	GASKETING	188SBK PSA	BK	ZER

Hardware Group No. 15-A

C144-A  
Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050T 17A 09-544	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	OH STOP	90S	630	GLY
1	EA	GASKETING	188SBK PSA	BK	ZER

Hardware Group No. 15-B

C244-A            C245-A            C246-A            C247-A            C248-A            C249-A  
Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	PASSAGE SET	L9010 17A	626	SCH
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

Hardware Group No. 15-C

C207-A C240-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	PASSAGE SET	L9010 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 16

C162-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	BY VAULT DOOR MANUFACTURER	ALL HARDWARES		BYO

Hardware Group No. 17

C114B-A

Provide each SL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	SLIDING DOOR SYSTEM	EXAMSLIDE SYSTEM , SECTION 08 34 00		ADS
1	EA	AD5464	AD5464-J	630	ADS

COMPLETE OPENING BY AD SYSTEMS – SEE SPEC SECTION 081473

Hardware Group No. 17-A

C114C-A

Provide each SL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	SLIDING DOOR SYSTEM	EXAMSLIDE SYSTEM , SECTION 08 34 00		ADS
1	EA	SELF-LATCHING PRIVACY LOCK	AD6440-L03-I	630	ADS

COMPLETE OPENING BY AD SYSTEMS – SEE SPEC SECTION 081473

Hardware Group No. 17-C

C214-A

Provide each SL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	SLIDING DOOR SYSTEM	EXAMSLIDE SYSTEM , SECTION 08 34 00		ADS
1	EA	SELF-LATCHING OFFICE LOCK	AD6450-J-L17	630	ADS

COMPLETE OPENING BY AD SYSTEMS – SEE SPEC SECTION 081473

Hardware Group No. 19

C2C5-B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	✓ 689	VON
1	EA	STOREROOM LOCK	L9080T 17A RX LX	✓ 626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	ELECTRIC STRIKE	6211 FSE DS 12/16/24/28 VAC/VDC	✓ 630	VON
1	EA	SURF. AUTO OPERATOR	9142 MS AS REQ (120 VAC)	✓ ANCLR	LCN
2	EA	ACTUATOR, TOUCHLESS	8310-813	✓ BLK	LCN
2	EA	RELAY	8310-845(IF REQ'D)	✓	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	WIRE HARNESS (LENGTH AS REQ'D)	CON-XX(HINGE FRAME TO POWER SUPPLY)	✓	SCH
1	EA	WIRE HARNESS (LENGTH AS REQ'D)	CON-XX(LOCK/EXIT TO HINGE FRAME)	✓	SCH
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	POWER SUPPLY	✓	
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	✓ BLK	SCE
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	✓	

THE DOOR IS NORMALLY CLOSED AND SECURED. PRESENTING A VALID CREDENTIAL TO THE READER WILL RELEASE THE KEEPER AND ALLOWS ENTRY. THE ELECTRIC STRIKE WILL BE SEQUENCED WITH THE AUTOMATIC OPERATOR AND RELEASE PRIOR TO THE AUTOMATIC OPERATOR. INSIDE, THE TOUCHLESS ACTUATOR OR INSIDE LEVER ALLOWS FREE EGRESS AT ALL THE TIMES.



Hardware Group No. 20

C1V1-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 22

C1S1-A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	✎ 689	VON
1	EA	ELEC FIRE EXIT HARDWARE	RX-98-L-F-M996-17-FS	✎ 626	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	✎ BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS-FA 120/240 VAC	✎ LGR	SCE
	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	✎	

ELECTRONIC OPERATIONAL DESCRIPTION

PRESENTATION OF VALID CREDENTIAL UNLOCKS TRIM. TRIM STRIKE RE-LOCKS AFTER PRESET INTERVAL. FREE EGRESS AT ALL TIMES. COORDINATE WITH ELECTRICAL, SECURITY AND FIRE LIFE SAFETY SYSTEMS

Hardware Group No. 23

C1C2-B            C1C6-B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 24

C250-A            C251-A

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	9827-EO-F-LBR-499F	626	VON
1	EA	FIRE EXIT HARDWARE	9827-L-F-LBRAFL-17-499F	626	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
2	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	626	IVE
2	EA	MEETING STILE	328AA-S	AA	ZER
1	EA	GASKETING	488SBK PSA	BK	ZER
2	EA	DOOR BOTTOM	350AA	AA	ZER

Hardware Group No. 25-A

C2S1-A            C2S2-A            RLSH-3  
 Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	✎ 689	VON
1	EA	DELAYED FIRE EXIT HARDWARE	CX98-L-F-M996-17-FS-CON 24 VDC	✎ 630	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	MORTISE CYLINDER	20-061-ICX	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	WIRE HARNESS (LENGTH AS REQ'D)	CON-XX(HINGE FRAME TO POWER SUPPLY)	✎	SCH
1	EA	WIRE HARNESS (LENGTH AS REQ'D)	CON-XX(LOCK/EXIT TO HINGE FRAME)	✎	SCH
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	POWER SUPPLY	✎	
1	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	✎ BLK	SCE
2	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	✎	

ELECTRICAL OPERATIONAL DESCRIPTION:

DOOR NORMALLY CLOSED AND LOCKED.

INGRESS: PRESENTING VALID CREDENTIAL TO THE READER WILL DISENGAGES THE LEVER AND ALLOWS ENTRY.

EGRESS: PRESENTING VALID CREDENTIAL TO THE READER THE DEVICE DISARM THE ALARM AND BY PUSHING PANIC TOUCHBAR ACTIVATES DELAYED EGRESS SYSTEM, ALARM SOUNDS AND FREE EGRESS ALLOWED IN 15 SECONDS.

THE DEVICE IS CONNECTED TO FIRE ALARM, DURING POWER OUTAGE OR EVENT OF FIRE THE DEVICE IS DISARMED AND ALLOWS FREE INGRESS AND EGRESS.

THE CHEXIT DEVICE INCLUDES A 6" X 20" DECAL FOR APPLICATION ON DOOR. "PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS"

DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION.

Hardware Group No. 26

C2C6-B

Provide each RU door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	TO MATCH FACILITY KEYING	CYLINDER	626	SCH
1	EA		BALANCE OF HARDWARE BY ROLL-UP DOOR MANUFACTURER		B/O

Hardware Group No. 27

C2C6-A

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
2	EA	POWER TRANSFER	EPT10 CON	⚡ 689	VON
2	EA	ELEC PANIC HARDWARE	RX-QEL-9827-EO-LBR-CON 24 VDC	⚡ 630	VON
1	EA	DELAYED EGRESS MAG	M490DEP 12/24 VDC	⚡ 628	SCE
1	EA	MAGNETIC LOCK	M490P 12/24 VDC	⚡ 628	SCE
2	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	626	IVE
2	EA	WIRE HARNESS (LENGTH AS REQ'D)	CON-XX(HINGE FRAME TO POWER SUPPLY)	⚡	SCH
2	EA	WIRE HARNESS (LENGTH AS REQ'D)	CON-XX(LOCK/EXIT TO HINGE FRAME)	⚡	SCH
1	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	POWER SUPPLY	⚡	
1	EA	KEY SWITCH	653-1414 NS L2 ATS 12/24 VDC	⚡ 630	SCE
2	EA	DOOR CONTACT	679-05 HM/WD (AS REQ'D)	⚡ BLK	SCE
2	EA	BY ACCESS CONTROL SYSTEM SUPPLIER	CARD READER	⚡	

ELECTRICAL OPERATIONAL DESCRIPTION:

LATCHBOLTS TO REMAIN RETRACTED AT ALL TIMES. DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIALS FROM EITHER SIDE TO THE READER WILL MOMENTARILY RELEASES THE MAG LOCK ALLOWING ENTRY. AFTER ENTRY THE DOOR RETURNS TO THE CLOSED POSITION. DELAYED EGRESS MAG LOCK WILL RELEASE IN 15 SECONDS OR UPON FIRE ALARM ACTIVATION ALLOWING IMMEDIATE EGRESS. KEYSWITCH FOR EMERGENCY RELEASE BY STAFF.  
 DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION. REQUEST TO EXIT (RX) FOR REMOTE MONITORING.

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Hardware Group No. 30

C141-SL

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	ALL HARDWARE BY	SLIDING WINDOW MFG		BYO

Hardware Group No. 31

C222-A

C223-A

C224-A

C225-A

Provide each BD door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	Door Pulls	PULLS ONLY-16" BTB LADDER PULLS	630	ADS
1	EA	BY AD SYSTEMS	AUTOMATION SLIDING SYSTEM	✎ BLK	ADS

COMPLETE OPENING BY AD SYSTEMS – SEE SPEC SECTION 084220.23

END OF SECTION