ADDENDUM NO. 03

February 22, 2024

Addition and Renovations to Franklin Central High School Phase 2A 6215 S. Franklin Rd Indianapolis, IN, 46259

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated January 29, 2024, by VPS Architecture. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 3 – 1 through ADD 3 -1 and attached VPS Architecture Addendum No. 3 dated February 22, 2024, consisting of 1 page and Specification Section 08 71 00 – Door Hardware.

Below is the link for the Optional Virtual Bid Opening, which Bids are due February 27, at 2:00PM (local time)

Microsoft Teams meeting

Join on your computer, mobile app or room device

Click here to join the meeting Meeting ID: 242 057 440 199

Passcode: Ypm62f

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<u>+1 317-762-3960,,894369146#</u> United States, Indianapolis

Phone Conference ID: 894 369 146# Find a local number | Reset PIN



Distribution: To all Planholders

ADDENDUM NO. 3 (THREE)

DATE: February 22, 2024

PROJECT: Additions & Renovations to Franklin Central High School

Phase 2A

OWNER: Franklin Township Community School Corporation

PROJECT NO.: 2022063.00

The original Specifications and Drawings dated January 2024 for the project referenced above, are amended as noted in this Addendum No. 3 (Three). Receipt of this Addendum and any subsequent Addenda must be acknowledged on the Proposal Form. This section of the Addendum consists of 1 (One) item and 1 (One) attachment.

ITEM DESCRIPTION

Specification Items:

3-1 Section 087100 Door Hardware: Replace section in its entirety with attached revision.

PREPARED BY:

George S. Link, AlA

Attachments: Section 087100 Door Hardware

(ADDENDUM NO. 3)

Page 1

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes:

- 1. Mechanical and electrified door hardware
- 2. Electronic access control system components

B. Section excludes:

- 1. Windows
- 2. Cabinets (casework), including locks in cabinets
- 3. Signage
- 4. Toilet accessories
- 5. Overhead doors

C. Related Sections:

- 1. Division 01 "General Requirements" sections for Allowances, Alternates, Owner Furnished Contractor Installed, Project Management and Coordination.
- 2. Division 06 Section "Rough Carpentry"
- 3. Division 06 Section "Finish Carpentry"
- 4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
- 5. Division 08 Sections:
 - a. "Metal Doors and Frames"
 - b. "Flush Wood Doors"
 - c. "Stile and Rail Wood Doors"
- 6. Division 26 "Electrical" sections for connections to electrical power system and for low-voltage wiring.
- 7. Division 28 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

1.02 REFERENCES

A. UL LLC

- 1. UL 10B Fire Test of Door Assemblies
- 2. UL 10C Positive Pressure Test of Fire Door Assemblies
- 3. UL 1784 Air Leakage Tests of Door Assemblies
- 4. UL 305 Panic Hardware
- B. DHI Door and Hardware Institute
 - 1. Sequence and Format for the Hardware Schedule

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 2

- 2. Recommended Locations for Builders Hardware
- 3. Keying Systems and Nomenclature
- 4. Installation Guide for Doors and Hardware

C. NFPA - National Fire Protection Association

- 1. NFPA 70 National Electric Code
- 2. NFPA 80 2016 Edition Standard for Fire Doors and Other Opening Protectives
- 3. NFPA 101 Life Safety Code
- 4. NFPA 105 Smoke and Draft Control Door Assemblies
- 5. NFPA 252 Fire Tests of Door Assemblies

D. ANSI - American National Standards Institute

- 1. ANSI/BHMA A156.1 A156.29, and ANSI/BHMA A156.31 Standards for Hardware and Specialties
- 2. ANSI/BHMA A156.28 Recommended Practices for Keying Systems
- 3. ANSI/WDMA I.S. 1A Interior Architectural Wood Flush Doors
- 4. ANSI/SDI A250.8 Standard Steel Doors and Frames

1.03 SUBMITTALS

A. General:

- 1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
- 2. Prior to forwarding submittal:
 - a. Review drawings and Sections from related trades to verify compatibility with specified hardware.
 - 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.

B. Action Submittals:

- 1. Product Data: Submit 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.
- 2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
 - a. Wiring Diagrams: For power, signal, and control wiring and including:
 - 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.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 3

- Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.
 - a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.

4. Door Hardware Schedule:

- Submit 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 critical in Project construction
- b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
- c. Indicate complete designations of each item required for each opening, include:
 - 1) Door Index: door number, heading number, and Architect's hardware set number.
 - 2) Quantity, type, style, function, size, and finish of each hardware item.
 - 3) Name and manufacturer of each item.
 - 4) Fastenings and other pertinent information.
 - 5) Location of each hardware set cross-referenced to indications on Drawings.
 - 6) Explanation of all abbreviations, symbols, and codes contained in schedule.
 - 7) Mounting locations for hardware.
 - 8) Door and frame sizes and materials.
 - 9) Degree of door swing and handing.
 - 10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.

5. Key Schedule:

- After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
- b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
- c. 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.
- d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
- e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
- f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 4

C. Informational Submittals:

- 1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
- 2. Provide Product Data:
 - a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
 - b. Include warranties for specified door hardware.

D. Closeout Submittals:

- 1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:
 - a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
 - b. Catalog pages for each product.
 - c. Final approved hardware schedule edited to reflect conditions as installed.
 - d. Final keying schedule
 - e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.
 - f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

E. Inspection and Testing:

- 1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:
 - a. Fire door assemblies, in compliance with NFPA 80.
 - b. Required egress door assemblies, in compliance with NFPA 101.

1.04 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

- Supplier: Recognized architectural hardware supplier with a minimum of 5 years
 documented experience supplying both mechanical and electromechanical door
 hardware similar in quantity, type, and quality to that indicated for this Project. Supplier
 to be recognized as a factory direct distributor by the manufacturer of the primary
 materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a
 certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC)
 available to Owner, Architect, and Contractor, at reasonable times during the Work for
 consultation.
- 2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
- 3. Architectural Hardware Consultant: 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:

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 5

- a. For door hardware: DHI certified AHC or DHC.
- Can provide installation and technical data to Architect and other related subcontractors.
- Can inspect and verify components are in working order upon completion of installation.
- d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.
- 4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:

- 1. Fire-Rated Door Openings:
 - a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
 - b. Provide only items of door hardware that are listed products tested by UL LLC, 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.
- 2. Smoke and Draft Control Door Assemblies:
 - a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
 - b. Comply with the 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.
- 3. Electrified Door Hardware
 - a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
- 4. Accessibility Requirements:
 - a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.

C. Pre-Installation Meetings

- 1. Keying Conference
 - a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
 - 1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 6

- 2) Preliminary key system schematic diagram.
- 3) Requirements for key control system.
- 4) Requirements for access control.
- 5) Address for delivery of keys.

2. Pre-installation Conference

- Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
- b. Inspect and discuss preparatory work performed by other trades.
- c. Inspect and discuss electrical roughing-in for electrified door hardware.
- d. Review sequence of operation for each type of electrified door hardware.
- e. Review required testing, inspecting, and certifying procedures.
- Review questions or concerns related to proper installation and adjustment of door hardware.

Electrified Hardware Coordination Conference:

a. Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping.
- B. 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. Deliver each article of hardware in manufacturer's original packaging.
- C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
- D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
- E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.

1.06 COORDINATION

A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 7

- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

1.07 WARRANTY

- A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.
 - 1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
 - 2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
 - a. Mechanical Warranty
 - 1) Locks
 - a) Schlage ND Series: 10 years
 - 2) Exit Devices
 - a) Von Duprin: 3 years
 - 3) Closers
 - a) LCN 4000 Series: 30 years
 - b. Electrical Warranty
 - 1) Exit Devices
 - a) Von Duprin: 1 year

1.08 MAINTENANCE

- A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.
- B. Turn over unused materials to Owner for maintenance purposes.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 8

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. The Owner requires use of certain products for their unique characteristics and project suitability to ensure continuity of existing and future performance and maintenance standards. After investigating available product offerings, the Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute."
 - Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.
- B. Approval of alternate manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category are only to be considered by official substitution request in accordance with section 01 25 00.
- C. 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.
- D. 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.

2.02 MATERIALS

A. Fabrication

- 1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer's recognized installation standards for application intended.
- Finish exposed 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.
- 3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with "Metal Doors and Frames", "Flush Wood Doors", "Stile and Rail Wood Doors" to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.
- B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.
 - 1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

2.03 HINGES

A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product:
 - a. Ives 5BB series
- 2. Acceptable Manufacturers and Products:
 - a. Hager BB1191/1279 series
 - b. McKinney TB series

B. Requirements:

- 1. Provide hinges conforming to ANSI/BHMA A156.1.
- 2. Provide five knuckle, ball bearing hinges.
- 3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
 - a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
 - b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high
- 4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
 - a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
 - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
- 5. 2 inches or thicker doors:
 - a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
 - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
- 6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
- 7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
- 8. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
 - a. Steel Hinges: Steel pins
 - b. Non-Ferrous Hinges: Stainless steel pins
 - c. Out-Swinging Exterior Doors: Non-removable pins
 - d. Out-Swinging Interior Lockable Doors: Non-removable pins
 - e. Interior Non-lockable Doors: Non-rising pins
- 9. Provide hinges with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.

2.04 CONTINUOUS HINGES

A. Manufacturers:

(ADDENDUM NO. 3)

- 1. Scheduled Manufacturer:
 - a. Ives
- 2. Acceptable Manufacturers:
 - a. Hager
 - b. Pemko

B. Requirements:

- Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.
- 2. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum.
- 3. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
- 4. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
- 5. On fire-rated doors, provide aluminum geared continuous hinges classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
- 6. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
- 7. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.

2.05 ELECTRIC POWER TRANSFER

A. Manufacturers:

- 1. Scheduled Manufacturer and Product:
 - a. Von Duprin EPT-10
- 2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

- Provide power transfer with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
- 2. Locate electric power transfer per manufacturer's template and UL requirements, unless interference with operation of door or other hardware items.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 11

A. Manufacturers:

- 1. Scheduled Manufacturer:
 - a. Ives
- 2. Acceptable Manufacturers:
 - a. Hager

B. Requirements:

 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 (305 mm) steel or brass rods at doors up to 90 inches (2286 mm) in height. For doors over 90 inches (2286 mm) in height increase top rods by 6 inches (152 mm) for each additional 6 inches (152 mm) of door height. Provide dust-proof strikes at each bottom flush bolt.

2.07 COORDINATORS

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Ives
 - 2. Acceptable Manufacturers:
 - a. Hager

B. Requirements:

- 1. Where pairs of doors are equipped with automatic flush bolts, an astragal, or other hardware that requires synchronized closing of the doors, provide bar-type coordinating device, surface applied to underside of stop at frame head.
- Provide filler bar of correct length for unit to span entire width of opening, and appropriate
 brackets for parallel arm door closers, surface vertical rod exit device strikes, or other
 stop mounted hardware. Factory-prepared coordinators for vertical rod devices as
 specified.

2.08 CYLINDRICAL LOCKS - GRADE 1

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Schlage ND series

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 12

- 2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

- 1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1, and UL Listed for 3-hour fire doors.
- 2. Cylinders: Refer to "KEYING" article, herein.
- 3. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2-inch latch throw. Provide proper latch throw for UL listing at pairs.
- 4. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
- 5. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
- 6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
- 7. Provide electrified options as scheduled in the hardware sets.
- 8. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.
 - a. Lever Design Sparta.

2.09 EXIT DEVICES

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Von Duprin 99/33A series
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

- 1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
- 2. Cylinders: Refer to "KEYING" article, herein.
- 3. Provide grooved touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
- 4. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
- 5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
- 6. Provide exit devices with weather resistant components that can withstand harsh conditions of various climates and corrosive cleaners used in outdoor pool environments.
- 7. Provide flush end caps for exit devices.
- 8. Provide exit devices with manufacturer's approved strikes.
- 9. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 13

- 10. 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.
- 11. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
- 12. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
- 13. Provide electrified options as scheduled.
- 14. Top latch mounting: double- or single-tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors.
- 15. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.
- 16. Special Options:
 - a. SI
 - 1) Provide dogging indicators for visible indication of dogging status.
 - b. CVC
 - Provide cable-actuated concealed vertical latch system in two-point for non-rated or fire rated wood doors up to a 90 minute rating and less bottom latch (LBL) configuration for non-rated or fire rated wood doors up to 20 minute rating. Vertical rods not permitted.
 - a) Cable: Stainless steel with abrasive resistant coating. Conduit and core wire ends snap into latch and center slides without use of tools.
 - b) Wood Door Prep: Maximum 1 inch x 1.1875 inch x 3.875 inches top latch pocket and 1 inch x 1.1875 inch x 5 inches bottom latch pocket which does not require the use of a metal wrap or edge for non-rated or fire rated wood doors up to a 45 minute rating.
 - c) Latchbolts and Blocking Cams: Manufactured from sintered metal low carbon copper- infiltrated steel, with molybdenum disulfide low friction coating.
 - d) Top Latchbolt: Minimum 0.38 inch (10 mm) and greater than 90-degree engagement with strike to prevent door and frame separation under high static load.
 - e) Bottom Latchbolt: Minimum of 0.44-inch (11 mm) engagement with strike.
 - f) Product Cycle Life: 1,000,000 cycles.
 - g) Latch Operation: Top and bottom latch operate independently of each other. Top latch fully engages top strike even when bottom latch is compromised. Separate trigger mechanisms not permitted.
 - h) Latch release does not require separate trigger mechanism.
 - i) Cable and latching system characteristics:
 - i. Installed independently of exit device installation, and capable of functioning on door prior to device and trim installation.
 - ii. Connected to exit device at single point in steel and aluminum doors, and two points for top and bottom latches in wood doors.
 - iii. Bottom latch height adjusted, from single point for steel and aluminum doors and two points for wood doors, after system is installed and connected to exit device, while door is hanging

(ADDENDUM NO. 3)

Page 14

- iv. Bottom latch position altered up and down minimum of 2 inches (51 mm) in steel and aluminum doors without additional adjustment. Bottom latch deadlocks in every adjustment position in wood doors.
- v. Top and bottom latches in steel and aluminum doors and top latch in wood doors may be removed while door is hanging.

2.10 ACCESS CONTROL READER

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Schlage MT Series
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

- 1. Provide access control card readers manufactured by a global company who is a recognized leader in the production of access control devices. Card reader manufactured for non-access control applications are not acceptable
- 2. Provide multi-technology contactless readers complying with ISO 14443.
- 3. Provide access control card readers capable of reading the following technologies:
 - a. CSN DESFire® CSN, HID iCLASS® CSN, Inside Contactless PicoTag® CSN, ST Microelectronics® CSN, Texas Instruments Tag-It®, CSN, Phillips I-Code® CSN
 - b. 125 KHz proximity Schlage® Proximity, HID® Proximity, GE/CASI® Proximity, AWID® Proximity, LenelProx®
 - c. 13.56 MHz Smart card Schlage smart cards using MIFARE Classic® EV1, Schlage smart cards using MIFARE Plus®, Schlage smart cards using MIFARE® DESFire® EV1, Schlage smart cards using MIFARE® DESFire® EV2/EV3

2.11 ELECTRIC STRIKES

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Von Duprin 6000 Series
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute
- B. Requirements:

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 15

- 1. Provide electric strikes designed for use with type of locks shown at each opening.
- 2. Provide electric strikes UL Listed as burglary resistant that are tested to a minimum endurance test of 1,000,000 cycles.
- 3. Where required, provide electric strikes UL Listed for fire doors and frames.
- 4. Provide transformers and rectifiers for each strike as required. Verify voltage with electrical contractor.

2.12 PUSHBUTTONS

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Schlage 660 Series
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute
- B. Requirements:
 - 1. Provide push buttons as specified in hardware groups.

2.13 POWER SUPPLIES

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Schlage/Von Duprin PS900 Series
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

- 1. Provide power supplies approved by manufacturer of supplied electrified hardware.
- Provide appropriate quantity 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.
- 3. Provide regulated and filtered 24 VDC power supply, and UL class 2 listed.
- 4. Provide power supplies with the following features:
 - a. 12/24 VDC Output, field selectable.
 - b. Class 2 Rated power limited output.
 - c. Universal 120-240 VAC input.

- (ADDENDUM NO. 3)
- d. Low voltage DC, regulated and filtered.e. Polarized connector for distribution boards.
- f. Fused primary input.
- g. AC input and DC output monitoring circuit w/LED indicators.
- h. Cover mounted AC Input indication.
- i. Tested and certified to meet UL294.
- j. NEMA 1 enclosure.
- k. Hinged cover w/lock down screws.
- I. High voltage protective cover.

2.14 CYLINDERS

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Existing Schlage Everest 29 Primus XP for exterior doors.
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

- Provide cylinders/cores, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.
- 2. Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.
 - a. High Security: dual-locking cylinder with permanent core requiring restricted, patented keyway. Dual-locking mechanism with interlocking finger pin(s) to check for patented features on keys.
- 3. Patent Protection: Cylinders/cores requiring use of restricted, patented keys, patent protected.
- 4. Nickel silver bottom pins.

2.15 CYLINDERS

- A. Manufacturers:
 - 1. Scheduled Manufacturer and Product:
 - a. Existing Best key system for interior doors.
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 17

B. Requirements:

1. Provide cylinders/cores to match Owner's existing key system, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.

2.16 KEYING

A. Scheduled System:

- 1. Existing factory registered system:
 - a. Provide cylinders/cores keyed into Owner's existing factory registered keying system. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

B. Requirements:

- 1. Construction Keying:
 - a. Replaceable Construction Cores.
 - 1) Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
 - a) 3 construction control keys
 - b) 12 construction change (day) keys.
 - 2) Owner or Owner's Representative will replace temporary construction cores with permanent cores.

2. Permanent Keying:

- a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
 - 1) Master Keying system as directed by the Owner.
- b. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
- c. Provide keys with the following features:
 - 1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
- d. Identification:
 - 1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 18

- 2) Identification stamping provisions must be approved by the Architect and Owner.
- 3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
- 4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
- 5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
- e. Quantity: Furnish in the following quantities.
 - 1) Permanent Control Keys: 3.
 - 2) Master Keys: 6.
 - 3) Change (Day) Keys: 3 per cylinder/core that is keyed differently
 - 4) Key Blanks: Quantity as determined in the keying meeting.

2.17 DOOR CLOSERS

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. LCN 4040XP series
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

- 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.
- 2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
- 3. Cylinder Body: 1-1/2-inch (38 mm) diameter piston with 5/8-inch (16 mm) diameter double heat-treated pinion journal. QR code with a direct link to maintenance instructions.
- 4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
- 5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards. Provide snap-on cover clip, with plastic covers, that secures cover to spring tube.
- 6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck. Provide graphically labelled instructions on the closer body adjacent to each adjustment valve. Provide positive stop on reg valve that prevents reg screw from being backed out.
- 7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
- 8. Pressure Relief Valve (PRV) Technology: Not permitted.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 19

- 9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
- 10. 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.

2.18 ELECTRO-HYDRAULIC AUTOMATIC OPERATORS

A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product:
 - a. LCN 4600 series
- 2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

- 1. Provide low energy automatic operator units with hydraulic closer complying with ANSI/BHMA A156.19.
- 2. Provide automatic operator units complying with 2022 California Building Code Section 11B-404.2.9, Exception 2.
- 3. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
- 4. Provide units with conventional door closer opening and closing forces unless power operator motor is activated. Provide door closer assembly with adjustable spring size, back-check, and opening and closing speed adjustment valves to control door
- 5. Provide units with on/off switch for manual operation, motor start up delay, vestibule interface delay, electric lock delay, and door hold open delay.
- 6. Provide drop plates, brackets, and adapters for arms as required for details.
- 7. Provide actuator switches and receivers for operation as specified.
- 8. Provide weather-resistant actuators at exterior applications.
- 9. Provide key switches with LEDs, recommended and approved by manufacturer of automatic operator as required for function described in operation description of hardware group below. Cylinders: Refer to "KEYING" article, herein.
- 10. Provide complete assemblies of controls, switches, power supplies, relays, and parts/material recommended and approved by manufacturer of automatic operator for each individual leaf. Actuators control both doors simultaneously at pairs. Sequence operation of exterior and vestibule doors with automatic operators to allow ingress or egress through both sets of openings as directed by Architect. Locate actuators, key switches, and other controls as directed by Architect.
- 11. Provide units with vestibule inputs that allow sequencing operation of two units, and SPDT relay for interfacing with latching or locking devices.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 20

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- 1. Scheduled Manufacturer:
 - a. Ives
- 2. Acceptable Manufacturers:
 - a. Hager

B. Requirements:

1. Provide push plates, push bars, pull plates, pulls, and hands-free reversible door pulls with diameter and length as scheduled.

2.20 PROTECTION PLATES

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Ives
 - 2. Acceptable Manufacturers:
 - a. Hager
- B. Requirements:
 - 1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
 - 2. Sizes plates 1-1/2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
 - 3. At fire rated doors, provide protection plates over 16 inches high with UL label.

2.21 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

- A. Manufacturers:
 - 1. Scheduled Manufacturers:
 - a. Glynn-Johnson
 - 2. Acceptable Manufacturers:
 - a. Hager
 - b. ABH

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 21

B. Requirements:

 Provide overhead stop at any door where conditions do not allow for a wall stop or floor stop presents tripping hazard.

2.22 DOOR STOPS AND HOLDERS

A. Manufacturers:

- 1. Scheduled Manufacturer:
 - a. Ives
- 2. Acceptable Manufacturers:
 - a. Hager
- B. Provide door stops at each door leaf:
 - Provide wall stops wherever possible. Provide concave type where lockset has a push button of thumbturn.
 - 2. Where a wall stop cannot be used, provide universal floor stops.
 - 3. Where wall or floor stop cannot be used, provide overhead stop.
 - Provide roller bumper where doors open into each other and overhead stop cannot be used.

2.23 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

- 1. Scheduled Manufacturer:
 - a. Zero International
- 2. Acceptable Manufacturers:
 - a. National Guard
 - b. Pemko

B. Requirements:

- 1. Provide thresholds, weather-stripping, and gasketing systems as specified and per architectural details. Match finish of other items.
- 2. 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.
- 3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 22

4. Size thresholds 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width unless otherwise specified in the hardware sets or detailed in the drawings.

2.24 SILENCERS

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Ives
 - 2. Acceptable Manufacturers:
 - a. Burns
 - b. Trimco
- B. Requirements:
 - 1. Provide "push-in" type silencers for hollow metal or wood frames.
 - 2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
 - 3. Omit where gasketing is specified.

2.25 DOOR POSITION SWITCHES

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Schlage
 - 2. Acceptable Manufacturers:
 - a. GE-Interlogix
 - b. Sargent
- B. Requirements:
 - 1. Provide recessed or surface mounted type door position switches as specified.
 - 2. Coordinate door and frame preparations with door and frame suppliers. If switches are being used with magnetic locking device, provide minimum of 4 inches (102 mm) between switch and magnetic locking device.

2.26 FINISHES

- A. FINISH: BHMA 626/652 (US26D); EXCEPT:
 - 1. Aluminum Geared Continuous Hinges: BHMA 628 (US28)

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 23

- 2. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
- 3. Protection Plates: BHMA 630 (US32D)
- 4. Overhead Stops and Holders: BHMA 630 (US32D)
- 5. Door Closers: Powder Coat to Match
- 6. Weatherstripping: Clear Anodized Aluminum
- 7. Thresholds: Mill Finish Aluminum

PART 3 - EXECUTION

3.01 EXAMINATION

- A. 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. Verify doors, frames, and walls have been properly reinforced for hardware installation.
- B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
 - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - 2. Custom Steel Doors and Frames: HMMA 831.
 - 3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
 - 4. Installation Guide for Doors and Hardware: DHI TDH-007-20
- B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.
- C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
- D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
- F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 24

- G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.
- I. Lock Cylinders:
 - 1. Install construction cores to secure building and areas during construction period.
 - 2. Replace construction cores with permanent cores as indicated in keying section.
 - 3. Furnish permanent cores to Owner for installation.
- J. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:
 - 1. Conduit, junction boxes and wire pulls.
 - 2. Connections to and from power supplies to electrified hardware.
 - 3. Connections to fire/smoke alarm system and smoke evacuation system.
 - 4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
 - 5. Connections to panel interface modules, controllers, and gateways.
 - 6. Testing and labeling wires with Architect's opening number.
- K. Continuous Hinges: Re-locate the door and frame fire rating labels where they will remain visible so that the hinge does not cover the label once installed.
- L. Door Closers & Auto Operators: Mount closers/operators on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers/operators so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.
- M. Overhead Stops/Holders: Mount overhead stops/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
- N. 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.
- O. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
- P. 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.
- Q. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
- R. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- S. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 25

3.03 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 - 1. Spring Hinges: Adjust to achieve positive latching when door can close freely from an open position of 30 degrees.
 - Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
 - 3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
- B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.04 CLEANING AND PROTECTION

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

3.05 DOOR HARDWARE SCHEDULE

- A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.
- B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.
- C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.
- D. Hardware Sets:

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 26

105372 OPT0357077 Version 5

Legend:

■ Link to catalog cut sheet

✓ Electrified Opening

Hardware Group No. 01

For use on Door #(s):

F101 F102 F108 J101

Provide each	PR	door(s	s)	with	the	following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224XY		628	IVE
1	EA	CONT. HINGE	224XY EPT		628	IVE
2	EA	POWER TRANSFER	EPT10	N	689	VON
1	EA	ELEC PANIC HARDWARE	LD-RX-9949-EO-SNB	N	626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-9949-NL-SNB 24 VDC	N	626	VON
1	EA	MORTISE CYLINDER	20-059		626	SCH
1	EA	RIM HOUSING	20-079		626	SCH
2	EA	PRIMUS CORE	20-740-XP		626	SCH
2	EA	SURFACE CLOSER	4040XP SHCUSH ST-1595 TBSRT		689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS		630	IVE
1	EA	RAIN DRIP	142AA		AA	ZER
1	SET	MEETING STILE	328AA-S		AA	ZER
1	EA	GASKETING	429AA		AA	ZER
2	EA	DOOR SWEEP, BRUSH W/ DRIP	8198AA		AA	ZER
1	EA	THRESHOLD	655A		Α	ZER
1	EA	CREDENTIAL READER	MT11/MT15 AS REQ'D (BY ACCESS CONTROL PROVIDER)	N	BLK	SCE
2	EA	DOOR CONTACT	7764	N	628	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC (COORDINATE WITH ACCESS CONTROL)	M	LGR	SCE
1	EA	WIRING DIAGRAM	ELEVATION			DLR
1	EA	WIRING DIAGRAM	POINT TO POINT			DLR

INSTALL WEATHERSTRIPPING BEFORE INSTALLING THE DOOR CLOSER.

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. PRESENTING A VALID CREDENTIAL TO THE READER WILL MOMENTARILY RETRACT THE PANIC DEVICE LATCH ALLOWING ACCESS. DOOR TO REMAIN LOCKED UPON LOSS OF POWER. THE REQUEST (RX) TO EXIT FEATURE OF THE LOCK TO SHUNT THE ALARM OUTPUT OF THE DOOR CONTACT DURING VALID EGRESS. DOOR CONTACT MONITORS THE POSITION OF THE DOOR. FREE EGRESS AT ALL TIMES.

(ADDENDUM NO. 3)

Page 27

Har	dware Gro	up No. 02				
	use on Do 101A	oor #(s): F101B				
	vide each TY EA	RU door(s) with the following DESCRIPTION MORTISE CYLINDER	g: CATALOG NUMBER 20-059 AS REQ'D		FINISH 626	MFR SCH
1 1 1	EA EA	PRIMUS CORE DOOR CONTACT NOTE	20-740-XP 674-OH BALANCE OF HARDWARE BY DOOR MFG	<i>№</i> 6	626 628	SCH SCE
OPE	ERATION:	DOOR CONTACT MONITO	ORS THE POSITION OF THE DOOR.			
Har	dware Gro	up No. 03				
For	use on Do 102A	•	3			
	vide each TY	PR door(s) with the following DESCRIPTION	g: CATALOG NUMBER	F	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	6	652	IVE
2	EA	PANIC HARDWARE	LD-9949-L-2SI-17-SNB	6	626	VON
2	EA	SFIC RIM CYLINDER	80-116	6	626	SCH
2	EA	TTURN RIM CYLINDER	XB13-379	6	526	SCH
2	EA	PERMANENT CORE	KEYED TO/MATCH EXISTING SYSTEM	6	626	BES
2	EA	SURFACE CLOSER	4040XP SHCUSH TBSRT	6	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	6	630	IVE
2	EA	SILENCER	SR64	C	GRY	IVE
Har	dware Gro	up No. 04				
	use on Do	oor #(s): F104 F106	6 F107 J112			
Prov	vide each	SGL door(s) with the followi	na:			
	TY	DESCRIPTION	CATALOG NUMBER	F	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5		652	IVE
1	EA	CLASSROOM LOCK	ND70BDC SPA		626	SCH
1	EA	PERMANENT CORE	KEYED TO/MATCH EXISTING SYSTEM		626	BES
1	EA	WALL STOP	WS401/402CVX	6	626	IVE
3	EA	SILENCER	SR64	(GRY	IVE

Page 28

(ADDENDUM NO. 3)

Hardwa	are Grou	up No. 05					
For use	e on Do	or #(s): F109	F109A	F110	F110A	F110B	
J113		J209	F 109A	FIIO	FIIUA	FIIUD	
Provide QTY	e each F	PR door(s) with the fo DESCRIPTION	llowing:	CATALOG NUMBER		FINISH	MFR
6	EA	HINGE		5BB1 4.5 X 4.5		652	IVE
1	EA	CONST LATCHING	BOLT	FB51T/FB61T AS REQ'D)	630	IVE
1	EA	STOREROOM LOC	K	ND80BDC SPA		626	SCH
1	EA	PERMANENT COR	E	KEYED TO/MATCH EXIS	STING	626	BES
2	EA	OH STOP		100S		630	GLY
2	EA	SILENCER		SR64		GRY	IVE
Hardwa	are Grou	up No. 06					
For use	e on Doα Δ	or #(s): L139	L139A				
Provide	e each S	SGL door(s) with the f DESCRIPTION	ollowing:	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE		5BB1 4.5 X 4.5 NRP		652	IVE
1	EA	STOREROOM LOC	:K	ND80BDC SPA		626	SCH
1	EA	PERMANENT COR		KEYED TO/MATCH EXIS	STING	626	BES
•		T ETWIN WELVIT COT	_	SYSTEM	71110	020	DLO
1	EA	SURFACE CLOSE	₹	4040XP SCUSH TBSRT		689	LCN
1	EA	KICK PLATE		8400 10" X 1 1/2" LDW B	-CS	630	IVE
3	EA	SILENCER		SR64		GRY	IVE
Hardwa	are Grou	up No. 07					
For use J102	e on Do	or #(s):					
Provide	e each S	SGL door(s) with the f	ollowing:				
QTY		DESCRIPTION		CATALOG NUMBER		FINISH	MFR
3	EA	HINGE		5BB1 4.5 X 4.5		652	IVE
1	EA	ENTRANCE LOCK		ND53BDC SPA		626	SCH
1	EA	PERMANENT COR	E	KEYED TO/MATCH EXIS	STING	626	BES
1	EA	FLOOR STOP		FS436/FS438 (AS REQ'D	D)	626	IVE
3	EA	SILENCER		SR64		GRY	IVE

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 29

Hardwa	are Gro	oup No. 08					
For use J104	on Do	oor #(s):					
Provide	e 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 LO	CK	ND80BDC SPA		626	SCH
1	EA	PERMANENT COR	RE	KEYED TO/MATCH EX SYSTEM	ISTING	626	BES
1	EA	SURFACE CLOSE	R	4040XP RW/PA TBSR	Γ	689	LCN
1	EΑ	KICK PLATE		8400 10" X 1 1/2" LDW	B-CS	630	IVE
3	EA	SILENCER		SR64		GRY	IVE
Hardwa	are Gro	oup No. 09					
For use	e on Do	oor #(s):					
J105		L105	L120	L125	L137	L164	
Provide	e 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		ND10S SPA		626	SCH
1	EA	WALL STOP		WS401/402CVX		626	IVE
3	EA	SILENCER		SR64		GRY	IVE

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 30

Hardware Group No. 09A For use on Door #(s):

L105A L125A

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	ND80BDC SPA		626	SCH
1	EA	PERMANENT CORE	KEYED TO/MATCH EXISTING SYSTEM		626	BES
1	EA	ELECTRIC STRIKE	6210 FSE 12/16/24/28 VAC/VDC	N	630	VON
1	EA	SURF. AUTO OPERATOR	4631 WMS 120 VAC	N	689	LCN
2	EA	ACTUATOR, TOUCHLESS	8310-810DA	N	630	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS401/402CVX		626	IVE
3	EA	SILENCER	SR64		GRY	IVE
1	EA	CREDENTIAL READER	MT11/MT15 AS REQ'D (BY ACCESS CONTROL PROVIDER)	N	BLK	SCE

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. PRESENTING A VALID CREDENTIAL TO THE READER WILL MOMENTARILY UNLOCK THE ELECTRIC STRIKE ALLOWING ACCESS AND MOMENTARILY ENABLE THE EXTERIOR ACTUATOR BUTTON. ACTIVATING THE EXTERIOR ACTUATOR BUTTON WILL CAUSE THE AUTOMATIC OPERATOR TO CYCLE THE DOOR. ACTIVATING THE INTERIOR ACTUATOR BUTTON WILL MOMENTARILY UNLOCK THE ELECTRIC STRIKE AND CAUSE THE AUTOMATIC OPERATOR TO CYCLE THE DOOR. DOOR TO REMAIN LOCKED UPON LOSS OF POWER. FREE EGRESS AT ALL TIMES.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 31

Hardwa	are Grou	ıр No. 09В							
For use on Door #(s):									
L102		L108 L113	L117 L118			L154			
L159									
Provide	e each S	GL door(s) with the following	g:						
QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR		
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP			652	IVE		
1	EA	POWER TRANSFER	EPT10		N	689	VON		
1	EA	EU STOREROOM LOCK	ND80BDCEU SPA CON 12V/24V DC		N	626	SCH		
1	EA	PERMANENT CORE	KEYED TO/MATCH EXISTING SYSTEM			626	BES		
1	EA	SURFACE CLOSER	4040XP RW/PA TBSRT			689	LCN		
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS			630	IVE		
1	EA	WALL STOP	WS401/402CVX			626	IVE		
3	EA	SILENCER	SR64			GRY	IVE		
1	EA	CREDENTIAL READER	MT11/MT15 AS REQ'D (BY ACCESS CONTROL PROVIDER)		M	BLK	SCE		
1	EA	POWER SUPPLY	PS902 120/240 VAC (COORDINATE WITH ACCESS CONTROL)		×	LGR	SCE		
1	EA	WIRING DIAGRAM	ELEVATION				DLR		
1	EA	WIRING DIAGRAM	POINT TO POINT				DLR		

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. PRESENTING A VALID CREDENTIAL TO THE READER WILL MOMENTARILY UNLOCK THE LOCK ALLOWING ACCESS. DOOR TO REMAIN LOCKED UPON LOSS OF POWER. FREE EGRESS AT ALL TIMES.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 32

Hardw	are Gro	oup No. 10					
For us	e on Do	oor #(s):					
J106		J107	J109	J110	L106	L107	
L109	9	L110	L114	L115	L116	L123	
L126	5	L128	L129	L134	L135	L140	
L141	1	L142	L142A	L149	L150	L151	
L152		L153	L156	L157	L158	L160	
L16′	1	L162	L163	L165	L166		
Provid	le each	SGL door(s) with the	following:				
QTY		DESCRIPTION	Ū	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE		5BB1 4.5 X 4.5		652	IVE
1	EA	ENTRANCE LOCK	(ND53BDC SPA		626	SCH
1	EA	PERMANENT CO	RE	KEYED TO/MATCH E SYSTEM	XISTING	626	BES
1	EA	WALL STOP		WS401/402CCV		626	IVE
3	EA	SILENCER		SR64		GRY	IVE
Hardw	/are Gro	oup No. 11					
For us		oor #(s):					
Provid	le each	SGL door(s) with the	following:				
QTY		DESCRIPTION	ioliowing.	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE		5BB1HW 5 X 4.5		652	IVE
1	EA	STOREROOM LO	CK	ND80BDC SPA		626	SCH
1	EA	PERMANENT COI		KEYED TO/MATCH E	XISTING	626	BES
				SYSTEM			
1	EA	OH STOP		100S		630	GLY
3	EA	SILENCER		SR64		GRY	IVE
Hardw	are Gro	oup No. 12					
For us	e on Do	oor #(s):					
J111							
Drovid	lo ooob	SGL door(s) with the	following				
QTY		DESCRIPTION	ioliowing.	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE		5BB1 4.5 X 4.5		652	IVE
1	EA	CLASSROOM LO	ΩK	ND70BDC SPA		626	SCH
1	EA	PERMANENT CO		KEYED TO/MATCH E	XISTING	626	BES
'		I LIMINIMENT CO	\ <u>_</u>	SYSTEM	/	020	DLO
1	EA	OH STOP				630	GLY
1 3	EA EA	OH STOP SILENCER		100S SR64		630 GRY	GLY IVE

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 33

Hardw	are Gro	oup No. 13			
For us J201 J207		oor #(s): J202 J203	J204 J205	J206	
		SGL door(s) with the followin	-	EIN II OLL	MED
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	ND70BDC SPA	626	SCH
1	EA	PERMANENT CORE	KEYED TO/MATCH EXISTING SYSTEM	626	BES
1	EA	WALL STOP	WS401/402CVX	626	IVE
3	EA	SILENCER	SR64	GRY	IVE
J208	3	oor #(s):			
		PR door(s) with the follow	•		
QTY	<u>′</u>	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
QTY 6	EA	DESCRIPTION HINGE	CATALOG NUMBER 5BB1 4.5 X 4.5	6 52	IVE
QTY 6 1	EA EA	DESCRIPTION HINGE CONST LATCHING BOLT	CATALOG NUMBER 5BB1 4.5 X 4.5 FB51T/FB61T AS REQ'D	652 630	IVE
QTY 6 1 1	EA EA EA	DESCRIPTION HINGE CONST LATCHING BOLT STOREROOM LOCK	CATALOG NUMBER 5BB1 4.5 X 4.5 FB51T/FB61T AS REQ'D ND80BDC SPA	652 630 626	IVE IVE SCH
QTY 6 1	EA EA	DESCRIPTION HINGE CONST LATCHING BOLT	CATALOG NUMBER 5BB1 4.5 X 4.5 FB51T/FB61T AS REQ'D	652 630	IVE
QTY 6 1 1	EA EA EA EA	DESCRIPTION HINGE CONST LATCHING BOLT STOREROOM LOCK PERMANENT CORE COORDINATOR	CATALOG NUMBER 5BB1 4.5 X 4.5 FB51T/FB61T AS REQ'D ND80BDC SPA KEYED TO/MATCH EXISTING SYSTEM COR X FL (MB/MBF AS REQ'D)	652 630 626 626	IVE IVE SCH BES
QTY 6 1 1 1 2	EA EA EA EA	DESCRIPTION HINGE CONST LATCHING BOLT STOREROOM LOCK PERMANENT CORE COORDINATOR SURFACE CLOSER	CATALOG NUMBER 5BB1 4.5 X 4.5 FB51T/FB61T AS REQ'D ND80BDC SPA KEYED TO/MATCH EXISTING SYSTEM COR X FL (MB/MBF AS REQ'D) 4040XP SCUSH TBSRT	652 630 626 626 628 689	IVE IVE SCH BES IVE
QTY 6 1 1 1 2	EA EA EA EA	DESCRIPTION HINGE CONST LATCHING BOLT STOREROOM LOCK PERMANENT CORE COORDINATOR SURFACE CLOSER KICK PLATE	CATALOG NUMBER 5BB1 4.5 X 4.5 FB51T/FB61T AS REQ'D ND80BDC SPA KEYED TO/MATCH EXISTING SYSTEM COR X FL (MB/MBF AS REQ'D) 4040XP SCUSH TBSRT 8400 10" x 1" Idw b-cs	652 630 626 626 628 689 630	IVE IVE SCH BES
QTY 6 1 1 1 2	EA EA EA EA	DESCRIPTION HINGE CONST LATCHING BOLT STOREROOM LOCK PERMANENT CORE COORDINATOR SURFACE CLOSER	CATALOG NUMBER 5BB1 4.5 X 4.5 FB51T/FB61T AS REQ'D ND80BDC SPA KEYED TO/MATCH EXISTING SYSTEM COR X FL (MB/MBF AS REQ'D) 4040XP SCUSH TBSRT	652 630 626 626 628 689	IVE IVE SCH BES IVE
QTY 6 1 1 1 2 2	EA EA EA EA EA EA	DESCRIPTION HINGE CONST LATCHING BOLT STOREROOM LOCK PERMANENT CORE COORDINATOR SURFACE CLOSER KICK PLATE	CATALOG NUMBER 5BB1 4.5 X 4.5 FB51T/FB61T AS REQ'D ND80BDC SPA KEYED TO/MATCH EXISTING SYSTEM COR X FL (MB/MBF AS REQ'D) 4040XP SCUSH TBSRT 8400 10" x 1" Idw b-cs SR64	652 630 626 626 628 689 630	IVE IVE SCH BES IVE IVE
QTY 6 1 1 1 2 2	EA EA EA EA EA EA EA	DESCRIPTION HINGE CONST LATCHING BOLT STOREROOM LOCK PERMANENT CORE COORDINATOR SURFACE CLOSER KICK PLATE SILENCER	CATALOG NUMBER 5BB1 4.5 X 4.5 FB51T/FB61T AS REQ'D ND80BDC SPA KEYED TO/MATCH EXISTING SYSTEM COR X FL (MB/MBF AS REQ'D) 4040XP SCUSH TBSRT 8400 10" x 1" Idw b-cs SR64	652 630 626 626 628 689 630	IVE IVE SCH BES IVE IVE
QTY 6 1 4 4 2 2 Provid	EA EA EA EA EA EA EA	DESCRIPTION HINGE CONST LATCHING BOLT STOREROOM LOCK PERMANENT CORE COORDINATOR SURFACE CLOSER KICK PLATE SILENCER PR door(s) with the follow	CATALOG NUMBER 5BB1 4.5 X 4.5 FB51T/FB61T AS REQ'D ND80BDC SPA KEYED TO/MATCH EXISTING SYSTEM COR X FL (MB/MBF AS REQ'D) 4040XP SCUSH TBSRT 8400 10" x 1" ldw b-cs SR64 ing:	652 630 626 626 628 689 630 GRY	IVE IVE SCH BES IVE IVE IVE
QTY 6 1 1 1 2 2 Provid	EA EA EA EA EA EA EA	DESCRIPTION HINGE CONST LATCHING BOLT STOREROOM LOCK PERMANENT CORE COORDINATOR SURFACE CLOSER KICK PLATE SILENCER PR door(s) with the follow DESCRIPTION	CATALOG NUMBER 5BB1 4.5 X 4.5 FB51T/FB61T AS REQ'D ND80BDC SPA KEYED TO/MATCH EXISTING SYSTEM COR X FL (MB/MBF AS REQ'D) 4040XP SCUSH TBSRT 8400 10" x 1" Idw b-cs SR64 ing: CATALOG NUMBER	652 630 626 626 628 689 630 GRY	IVE IVE SCH BES IVE IVE IVE IVE IVE
QTY 6 1 4 4 2 2 Provid QTY 3	EA EA EA EA EA EA EA	DESCRIPTION HINGE CONST LATCHING BOLT STOREROOM LOCK PERMANENT CORE COORDINATOR SURFACE CLOSER KICK PLATE SILENCER PR door(s) with the follow DESCRIPTION HINGE	CATALOG NUMBER 5BB1 4.5 X 4.5 FB51T/FB61T AS REQ'D ND80BDC SPA KEYED TO/MATCH EXISTING SYSTEM COR X FL (MB/MBF AS REQ'D) 4040XP SCUSH TBSRT 8400 10" x 1" Idw b cs SR64 ing: CATALOG NUMBER 5BB1 4.5 X 4.5	652 630 626 626 628 689 630 GRY	IVE IVE SCH BES IVE IVE IVE IVE IVE
QTY 6 1 4 1 2 2 Provid QTY 3 1	EA EA EA EA EA EA Ce each	DESCRIPTION HINGE CONST LATCHING BOLT STOREROOM LOCK PERMANENT CORE COORDINATOR SURFACE CLOSER KICK PLATE SILENCER PR door(s) with the follow DESCRIPTION HINGE STOREROOM LOCK	CATALOG NUMBER 5BB1 4.5 X 4.5 FB51T/FB61T AS REQ'D ND80BDC SPA KEYED TO/MATCH EXISTING SYSTEM COR X FL (MB/MBF AS REQ'D) 4040XP SCUSH TBSRT 8400 10" x 1" Idw b cs SR64 ing: CATALOG NUMBER 5BB1 4.5 X 4.5 ND80BDC SPA KEYED TO/MATCH EXISTING	652 630 626 626 628 689 630 GRY FINISH 652 626	IVE IVE SCH BES IVE IVE IVE IVE IVE SCH

SR64

GRY

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Section 087100 January 2024

(ADDENDUM NO. 3)

Page 34

Hardware Group No. 15

For use on Door #(s):

L112

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	ENTRANCE LOCK	ND53BDC SPA	626	SCH
1	EA	PERMANENT CORE	KEYED TO/MATCH EXISTING SYSTEM	626	BES
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP ST-1630 TBSRT	689	LCN
1	EA	TOP JAMB MTG PLATE	4040XP-18TJ TBSRT	691	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 15A

For use on Door #(s):

L103

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	STOREROOM LOCK	ND80BDC SPA		626	SCH
1	EA	PERMANENT CORE	KEYED TO/MATCH EXISTING SYSTEM		626	BES
1	EA	ELECTRIC STRIKE	6210 FSE 12/16/24/28 VAC/VDC	N	630	VON
1	EA	OH STOP	100S		630	GLY
1	EA	SURFACE CLOSER	4040XP ST-1630 TBSRT		689	LCN
1	EA	MOUNTING PLATE	4040XP-18TJ		689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		630	IVE
3	EA	SILENCER	SR64		GRY	IVE
1	EA	DESK MOUNT BUTTON	660-PB	N	628	SCE
1	EA	POWER SUPPLY	PS902 120/240 VAC (COORDINATE WITH ACCESS CONTROL)	N	LGR	SCE
1	EA	WIRING DIAGRAM	ELEVATION			DLR
1	EA	WIRING DIAGRAM	POINT TO POINT			DLR

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. PUSHING REMOTE BUTTON WILL MOMENTARILY UNLOCK THE LOCK ALLOWING ACCESS. DOOR TO REMAIN LOCKED UPON LOSS OF POWER. FREE EGRESS AT ALL TIMES.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 35

Hardware Group No. 15B

For use on Door #(s):

L103A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FI	NISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5	65	52	IVE
1	EA	DBL CYL COMM LOCK	ND72BDC SPA XN12-002	62	26	SCH
2	EA	PERMANENT CORE	KEYED TO/MATCH EXISTING SYSTEM	62	26	BES
1	EA	ELECTRIC STRIKE	6210 FSE 12/16/24/28 VAC/VDC	№ 63	30	VON
1	EA	OH STOP	100S	63	30	GLY
1	EA	SURFACE CLOSER	4040XP ST-1630 TBSRT	68	39	LCN
1	EA	MOUNTING PLATE	4040XP-18TJ	68	39	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	63	30	IVE
3	EA	SILENCER	SR64	Gl	RY	IVE
1	EA	DESK MOUNT BUTTON	660-PB	№ 62	28	SCE
1	EA	POWER SUPPLY	PS902 120/240 VAC (COORDINATE WITH ACCESS CONTROL)	₩ LC	GR	SCE
1	EA	WIRING DIAGRAM	ELEVATION			DLR
1	EA	WIRING DIAGRAM	POINT TO POINT			DLR

OPERATION:

BUSINESS HOURS - UNLOCK CORRIDOR SIDE WITH KEY. DOOR LOCKED FROM WAITING ROOM. PUSHING REMOTE BUTTON WILL MOMENTARILY UNLOCK THE LOCK ALLOWING ACCESS INTO CORRIDOR. DOOR TO REMAIN LOCKED FROM WAITING ROOM UPON LOSS OF POWER. NO FREE EGRESS FROM WAITING ROOM.

AFTER HOURS - RELOCK CORRIDOR SIDE WITH KEY. DOOR LOCKED FROM BOTH SIDES. PUSHING REMOTE BUTTON WILL MOMENTARILY UNLOCK THE LOCK ALLOWING ACCESS INTO CORRIDOR. DOOR TO REMAIN LOCKED FROM BOTH SIDES UPON LOSS OF POWER. NO FREE EGRESS FROM WAITING ROOM.

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 36

Hardw	are Gro	up No. 15C				
For us	e on Do	or #(s):				
L104		L104A L104B				
Provide	e each	SGL door(s) with the following	j :			
QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5		652	IVE
1	EA	POWER TRANSFER	EPT10	N	689	VON
1	EA	EU STOREROOM LOCK	ND80BDCEU SPA CON 12V/24V DC	N	626	SCH
1	EA	PERMANENT CORE	KEYED TO/MATCH EXISTING SYSTEM		626	BES
1	EA	OH STOP	100S		630	GLY
1	EA	SURFACE CLOSER	4040XP ST-1630 TBSRT		689	LCN
1	EA	MOUNTING PLATE	4040XP-18TJ		689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		630	IVE
3	EA	SILENCER	SR64		GRY	IVE
1	EA	CREDENTIAL READER	MT11/MT15 AS REQ'D (BY ACCESS CONTROL PROVIDER)	N	BLK	SCE
1	EA	POWER SUPPLY	PS902 120/240 VAC (COORDINATE WITH ACCESS CONTROL)	×	LGR	SCE
1	EA	WIRING DIAGRAM	ELEVATION			DLR
1	EA	WIRING DIAGRAM	POINT TO POINT			DLR

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. PRESENTING A VALID CREDENTIAL TO THE READER WILL MOMENTARILY UNLOCK THE LOCK ALLOWING ACCESS. DOOR TO REMAIN LOCKED UPON LOSS OF POWER. FREE EGRESS AT ALL TIMES.

Hardware Group No. 16 - Not Used

Section 087100 January 2024

(ADDENDUM NO. 3)

Page 37

Hardw	are Gro	oup No. 17			
For us	e on Do	oor #(s):			
L124	1	L159A L159			
QTY	•	SGL door(s) with the following: DESCRIPTION	CATALOG NUMBER	FINISH	
3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	ENTRANCE LOCK	ND53BDC SPA	626	SCH
1	EA	PERMANENT CORE	KEYED TO/MATCH EXISTING SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP RW/PA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS401/402CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE
		oup No. 18			
For us L111		oor #(s):			
Provid QTY		SGL door(s) with the following: DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	ENTRANCE LOCK	ND53BDC SPA	626	SCH
1	EA	PERMANENT CORE	KEYED TO/MATCH EXISTING SYSTEM	626	BES
1	EA	WALL STOP	WS401/402CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE
Hardw	are Gro	oup No. 19			
		•			
L119		oor #(s): L147			
Provid QTY		SGL door(s) with the following: DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80BDC SPA	626	SCH
1	EA	PERMANENT CORE	KEYED TO/MATCH EXISTING SYSTEM	626	BES
1	EA	WALL STOP	WS401/402CVX	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

Page 38

(ADDENDUM NO. 3)

Hardware	Group	No. 20
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For use on Door #(s):

L121 L122 L144 L146

Provide each SGL door(s) with the following:

(QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
•	1	EA	PRIVACY LOCK	ND40S SPA	626	SCH
•	1	EA	SURFACE CLOSER	4040XP RW/PA TBSRT	689	LCN
•	1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
•	1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
•	1	EA	WALL STOP	WS401/402CCV	626	IVE
•	1	EΑ	GASKETING	488SCL PSA	CL	ZER

Hardware Group No. 21

For use on Door #(s):

L131

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	4040XP H TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS401/402CVX	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 22

For use on Door #(s):

L132

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
4	EA	PUSH PLATE	8200 4" X 16"	630	IVE
4	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
4	EA	SURFACE CLOSER	4040XP H TBSRT	689	LCN
4	EA	TOP JAMB MTG PLATE	4040XP-18TJ TBSRT	691	LCN
4	EA	KICK PLATE	8400 10 X 1-1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Legend:

✓ Electrified Opening

Door#	HwSet#
F101 💉	01
F101A 💉	02
F101B /	02
F102 /	01
F102A	03
F103	04
F104	04
F105	05
F106	04
F107	04
F108 💉	01
F108A	03
F109	05
F109A	05
F110	05
F110A	05
F110B	05
J101 ∕∕	01
J101A	06
J102	07
J103	03
J104	08
J105	09
J106	10
J107	10
J108	11
J109	10
J110	10
J111	12
J112	04
J113	05
J201	13
J202	13
J203	13
J204	13
J205	13
J206	13
J207	13
J208	14
J209	5
L102 ₩	09B
L103 M	15A
L103A ✓	15B

Door#	HwSet#
L104 M	15C
L104A 💉	15C
L104B ₩	15C
L105	09
L105A 💉	09A
L106	10
L107	10
L108 💉	09B
L109	10
L110	10
L111	18
L112	15
L113 / ∕	09B
L114	10
L115	10
L116	10
L117 ₩	09B
L118 💉	09B
L119	19
L120	09
L121	20
L122	20
L123	10
L124	17
L125	09
L125A. ∕ ∕	09A
L126	10
L128	10
L129	10
L131	21
L132	22
L134	10
L135	10
L137	09
L139	06
L139A	06
L140	10
L141	10
L142	10
L142A	10
L144	20
L146	20

HwSet#
19
10
10
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09B
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09B 17
17
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09
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