

VA Sheridan Short Stay Geri-psych Addition 666-311 (2015-06)  
1898 Fort Road, Sheridan, Wyoming 82801

DATE OF ISSUE: December 22, 2016

NOTICE: THIS ADDENDUM IS ISSUED BY THE ARCHITECT TO ALL KNOWN INDIVIDUAL, FIRMS OR CORPORATIONS WHO HAVE OBTAINED OR RECEIVED CONTRACT DOCUMENTS FOR THE ABOVE LISTED PROJECT:

1. Sheet A-600 Room Finish and Color Schedules
  - a. Color Schedule, add W-3 Patty Madden Xano LXB-XAN 06 Valley, Insets of Care Team Center Desk.
  
2. Sheet A-700 Door Schedule
  - a. Revise door hardware set number for the following doors: 111 to be 5.1, 112A to be 7.1, 112B to be 24, 152A to be 4.1, 154 to be 18.1, 155 to be 5, 156A to be 12.1, 159 to be 11.1, 160 and 161 to be 11.4, 163 to be 6, 165A, 165B, 166A and 166B to be 11.2, 168 to be 6, 169 to be 11.3, 170B to be 7.2, 172 to be 11.2, 173 to be 25, 178 to be 17.2, 180 to be 11, 196 to be 17.2, 196A to be 17.1, 218C to be 3.1.
  
3. Sheet A-901 Interior Elevations
  - a. At Care Team Center 167, elevations E4 & E7, revise vertical inset to be W-3 in lieu of S-1. Countertops to remain S-1.
  
4. Sheet ETY-101
  - a. Keyed Notes 10-14 were cut off, not shown on plan. The following are the notes:
    10. PROVIDE VIDEO SURVEILLANCE, MONITOR AND STATION INCLUDING PC, KEYBOARD, MOUSE, 24" MONITOR AND SYSTEM SUPPORT.
    11. CAMERA TO BE NON-IR CCTV CAMERA WITH SIGNAL DISTRIBUTION TO THE LAN. CAMERA TO BE USED FOR FEEDBACK AND LIGHTING CONTROL.
    12. DOOR SCHEDULE CALLS FOR MAG. LOCK TO BE RELEASED BY A REMOTE PUSHBUTTON INSTALLED AT THE CARE TEAM CENTER DESK.
    13. DOOR SCHEDULE CALL SOD E A DOOR/FRAME WIRING HARNESS, SHOWN HERE AS A POWER TRANSFER HINGE.
    14. AUTOMATIC DOOR OPENER SHOWN ON THE EP PLANS TO HAVE AN INTERLOCK BETWEEN DOOR OPERATOR PUSHBUTTON AND THE CARD READ
  - b. Doors C110 and C112 are shown on plan with one set of card access equipment. Add Note 15 to these doors. Note 15 to state, "PROVIDE CARD ACCESS EQUIPMENT FOR ENTRANCE TO THE FUTURE STAIRS. THIS DOOR SHOULD HAVE CARD ACCESS AND REQUEST TO EXIT ON BOTH SIDES OF THE DOOR. VERIFY DOOR NUMBERS WITH THE ARCHITECTURAL PLANS."
  
5. Sheet E-400
  - a. Add General Note D, "CONDUIT FOR FEEDERS WITHIN THE CRAWLSPACE TO BE PVC."
  - b. Add Note 13 to the Crawlspace. Note to state, "DOORS 001 AND 002 WITHIN THE CRAWLSPACE TO HAVE POSITION SWITCHES WIRED TO ALARM AT SECURITY. VERIFY DOOR NUMBERS WITH THE ARCHITECTURAL PLANS."
  
6. Sheet E-500
  - a. Add to Note 8, "PANEL ENCLOSURE TO HAVE A GASKETED DOOR WITH LOCKABLE VAULT HANDLE."
  
7. Specification Section- 087100 Door Hardware
  - a. Revise Section 087100-3.5E, Hardware Schedule:
    - i. Revise hardware sets: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, and 26.
    - ii. Add hardware sets: 3.1, 4.1, 5.1, 7.1, 7.2, 11.1, 11.2, 11.3, 11.4, 12.1, 17.1, 17.2, and 18.1.
  - b. See attached revised spec section 087100. File with tracked changes available upon request.
  
8. Specification Section- 093013 Ceramic Tiling
  - a. Section 096723-2.1A, add to list of acceptable manufacturers "Noble Company" for waterproofing, vapor barrier, crack isolation membrane, linear drains and accessories.

Attachments:

1. One Revised Specification Section 087100 (43 pages, 8.5x11).

THIS ADDENDUM IS HEREBY MADE A PORTION OF THE CONTRACT DOCUMENTS, AS APPROPRIATE.

Cal Hinz/ Rebecca Block at CLH Architects P.C. and Nina Doorenbos/ Mike Blount at Skyline Engineering, LLC  
END OF ADDENDUM

**SECTION 08 71 00**  
**DOOR HARDWARE**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Door hardware and related items necessary for complete installation and operation of doors.

**1.2 RELATED WORK**

- A. Caulking: Section 07 92 00 JOINT SEALANTS.
- B. Application of Hardware: Section 08 14 00, WOOD DOORS, Section 08 11 13, HOLLOW METAL DOORS AND FRAMES, Section 08 41 13, ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS, Section 08 33 13, COILING COUNTER DOORS, Section 08 71 13.11, LOW ENERGY DOOR OPERATORS, Section 32 31 33, CHAIN LINK FENCES AND GATES and Section 32 31 19, DECORATIVE METAL FENCES AND GATES.
- C. Finishes: Section 09 06 00, SCHEDULE FOR FINISHES.
- D. Painting: Section 09 91 00, PAINTING.
- E. Card Readers: Section 28 13 11, PHYSICAL ACCESS CONTROL SYSTEMS.
- F. Electrical: Division 26, ELECTRICAL.
- G. Fire Detection: Section 28 31 00, FIRE DETECTION AND ALARM.

**1.3 GENERAL**

- A. All hardware shall comply with UFAS, (Uniform Federal Accessible Standards) unless specified otherwise.
- B. Provide rated door hardware assemblies where required by most current version of the International Building Code (IBC).
- C. Hardware for Labeled Fire Doors and Exit Doors: Conform to requirements of NFPA 80 for labeled fire doors and to NFPA 101 for exit doors, as well as to other requirements specified. Provide hardware listed by UL, except where heavier materials, large size, or better grades are specified herein under paragraph HARDWARE SETS. In lieu of UL labeling and listing, test reports from a nationally recognized testing agency may be submitted showing that hardware has been tested in accordance with UL test methods and that it conforms to NFPA requirements.
- D. Hardware for application on metal and wood doors and frames shall be made to standard templates. Furnish templates to the fabricator of these items in sufficient time so as not to delay the construction.
- E. The following items shall be of the same manufacturer, except as otherwise specified:

1. Mortise locksets.
2. Hinges for hollow metal and wood doors.
3. Surface applied overhead door closers.
4. Exit devices.
5. Floor closers.

**1.4 WARRANTY**

- A. Automatic door operators shall be subject to the terms of FAR Clause 52.246-21, except that the Warranty period shall be two years in lieu of one year for all items except as noted below:
1. Locks, latchsets, and panic hardware: 5 years.
  2. Door closers and continuous hinges: 10 years.

**1.5 MAINTENANCE MANUALS**

- A. In accordance with Section 01 00 00, GENERAL REQUIREMENTS Article titled "INSTRUCTIONS", furnish maintenance manuals and instructions on all door hardware. Provide installation instructions with the submittal documentation.

**1.6 SUBMITTALS**

- A. Submittals shall be in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES. Submit 6 copies of the schedule per Section 01 33 23. Submit 2 final copies of the final approved schedules to VAMC Locksmith as record copies (VISN Locksmith if the VAMC does not have a locksmith).
- B. Hardware Schedule: Prepare and submit hardware schedule in the following form:

Hardware Item	Quantity	Size	Reference Publication Type No.	Finish	Mfr. Name and Catalog No.	Key Control Symbols	UL Mark (if fire rated and listed)	ANSI/BHMA Finish Designation

- C. Samples and Manufacturers' Literature:
1. Samples: All hardware items (proposed for the project) that have not been previously approved by Builders Hardware Manufacturers Association shall be submitted for approval. Tag and mark all items with manufacturer's name, catalog number and project number.

2. Samples are not required for hardware listed in the specifications by manufacturer's catalog number, if the contractor proposes to use the manufacturer's product specified.

D. Certificate of Compliance and Test Reports: Submit certificates that hardware conforms to the requirements specified herein. Certificates shall be accompanied by copies of reports as referenced. The testing shall have been conducted either in the manufacturer's plant and certified by an independent testing laboratory or conducted in an independent laboratory, within four years of submittal of reports for approval.

#### **1.7 DELIVERY AND MARKING**

A. Deliver items of hardware to job site in their original containers, complete with necessary appurtenances including screws, keys, and instructions. Tag one of each different item of hardware and deliver to Resident Engineer for reference purposes. Tag shall identify items by Project Specification number and manufacturer's catalog number. These items shall remain on file in Resident Engineer's office until all other similar items have been installed in project, at which time the Resident Engineer will deliver items on file to Contractor for installation in predetermined locations on the project.

#### **1.8 PREINSTALLATION MEETING**

A. Convene a preinstallation meeting not less than 30 days before start of installation of door hardware. Require attendance of parties directly affecting work of this section, including Contractor and Installer, Architect, Project Engineer and VA Locksmith, Hardware Consultant, and Hardware Manufacturer's Representative. Review the following:

1. Inspection of door hardware.
2. Job and surface readiness.
3. Coordination with other work.
4. Protection of hardware surfaces.
5. Substrate surface protection.
6. Installation.
7. Adjusting.
8. Repair.
9. Field quality control.
10. Cleaning.



- A156.15-06.....Release Devices-Closer Holder, Electromagnetic  
and Electromechanical
- A156.16-08.....Auxiliary Hardware
- A156.17-04 .....Self-Closing Hinges and Pivots
- A156.18-06.....Materials and Finishes
- A156.20-06 .....Strap and Tee Hinges, and Hasps
- A156.21-09.....Thresholds
- A156.22-05.....Door Gasketing and Edge Seal Systems
- A156.23-04.....Electromagnetic Locks
- A156.24-03.....Delayed Egress Locking Systems
- A156.25-07 .....Electrified Locking Devices
- A156.26-06.....Continuous Hinges
- A156.28-07 .....Master Keying Systems
- A156.29-07 .....Exit Locks and Alarms
- A156.30-03 .....High Security Cylinders
- A156.31-07 .....Electric Strikes and Frame Mounted Actuators
- A156.36-10.....Auxiliary Locks
- A250.8-03.....Standard Steel Doors and Frames
- D. National Fire Protection Association (NFPA):
- 80-16.....Fire Doors and Other Opening Protectives
- 101-15.....Life Safety Code
- E. Underwriters Laboratories, Inc. (UL):
- Building Materials Directory (2008)

## **PART 2 - PRODUCTS**

See hardware sets for basis of design for all door hardware.

### **2.1 BUTT HINGES**

- A. ANSI A156.1. Provide only three-knuckle hinges, except five-knuckle where the required hinge type is not available in a three-knuckle version (e.g., some types of swing-clear hinges). The following types of butt hinges shall be used for the types of doors listed, except where otherwise specified:
1. Exterior Doors: Type A2112/A5112 for doors 900 mm (3 feet) wide or less and Type A2111/A5111 for doors over 900 mm (3 feet) wide. Hinges for exterior outswing doors shall have non-removable pins. Hinges for exterior fire-rated doors shall be of stainless steel material.

2. Interior Doors: Type A8112/A5112 for doors 900 mm (3 feet) wide or less and Type A8111/A5111 for doors over 900 mm (3 feet) wide. Hinges for doors exposed to high humidity areas (shower rooms, toilet rooms, kitchens, janitor rooms, etc. shall be of stainless steel material.

B. Provide quantity and size of hinges per door leaf as follows:

1. Doors up to 1210 mm (4 feet) high: 2 hinges.
2. Doors 1210 mm (4 feet) to 2260 mm (7 feet 5 inches) high: 3 hinges minimum.
3. Doors greater than 2260 mm (7 feet 5 inches) high: 4 hinges.
4. Doors up to 900 mm (3 feet) wide, standard weight: 114 mm x 114 mm (4-1/2 inches x 4-1/2 inches) hinges.
5. Doors over 900 mm (3 feet) to 1065 mm (3 feet 6 inches) wide, standard weight: 127 mm x 114 mm (5 inches x 4-1/2 inches).
6. Doors over 1065 mm (3 feet 6 inches) to 1210 mm (4 feet), heavy weight: 127 mm x 114 mm (5 inches x 4-1/2 inches).
7. Provide heavy-weight hinges where specified.
8. At doors weighing 330 kg (150 lbs.) or more, furnish 127 mm (5 inch) high hinges.

C. See Articles "MISCELLANEOUS HARDWARE" and "HARDWARE SETS" for pivots and hinges other than butts specified above and continuous hinges specified below.

## 2.2 CONTINUOUS HINGES

A. ANSI/BHMA A156.26, Grade 1-600.

1. Listed under Category N in BHMA's "Certified Product Directory."

B. General: Minimum 0.120-inch- (3.0-mm-) thick, hinge leaves with minimum overall width of 4 inches (102 mm); fabricated to full height of door and frame and to template screw locations; with components finished after milling and drilling are complete

C. Continuous, Barrel-Type Hinges: Hinge with knuckles formed around a Teflon-coated 6.35mm (0.25-inch) minimum diameter pin that extends entire length of hinge.

1. Base Metal for Exterior Hinges: Stainless steel.
2. Base Metal for Interior Hinges: Stainless steel.
3. Base Metal for Hinges for Fire-Rated Assemblies: Stainless steel.
4. Provide with non-removable pin (hospital tip option) at lockable outswing doors.

5. Where required to clear adjacent casing, trim, and wall conditions and allow full door swing, provide wide throw hinges of minimum width required.
6. Provide with manufacturer's cut-outs for separate mortised power transfers and/or mortised automatic door bottoms where they occur.
7. Where thru-wire power transfers are integral to the hinge, provide hinge with easily removable portion to allow easy access to wiring connections.
8. Where models are specified that provide an integral wrap-around edge guard for the hinge edge of the door, provide manufacturer's adjustable threaded stud and machine screw mechanism to allow the door to be adjusted within the wrap-around edge guard.

### **2.3 DOOR CLOSING DEVICES**

- A. Closing devices shall be products of one manufacturer for each type specified.

### **2.4 OVERHEAD CLOSERS**

- A. Conform to ANSI A156.4, Grade 1.
- B. Closers shall conform to the following:
  1. The closer shall have minimum 50 percent adjustable closing force over minimum value for that closer and have adjustable hydraulic back check effective between 60 degrees and 85 degrees of door opening.
  2. Where specified, closer shall have hold-open feature.
  3. Size Requirements: Provide multi-size closers, sizes 1 through 6, except where multi-size closer is not available for the required application.
  4. Material of closer body shall be forged or cast.
  5. Arm and brackets for closers shall be steel, malleable iron or high strength ductile cast iron.
  6. Where closers are exposed to the exterior or are mounted in rooms that experience high humidity, provide closer body and arm assembly of stainless steel material.
  7. Closers shall have full size metal cover; plastic covers will not be accepted.
  8. Closers shall have adjustable hydraulic back-check, separate valves for closing and latching speed, adjustable back-check positioning valve, and adjustable delayed action valve.



9. Provide closers with any accessories required for the mounting application, including (but not limited to) drop plates, special soffit plates, spacers for heavy-duty parallel arm fifth screws, bull-nose or other regular arm brackets, longer or shorter arm assemblies, and special factory templating. Provide special arms, drop plates, and templating as needed to allow mounting at doors with overhead stops and/or holders.
10. Closer arms or backcheck valve shall not be used to stop the door from overswing, except in applications where a separate wall, floor, or overhead stop cannot be used.
11. Provide parallel arm closers with heavy duty rigid arm.
12. Where closers are to be installed on the push side of the door, provide parallel arm type except where conditions require use of top jamb arm.
13. Provide all surface closers with the same body attachment screw pattern for ease of replacement and maintenance.
14. All closers shall have a 1 ½" (38mm) minimum piston diameter.

## **2.5 FLOOR CLOSERS AND FLOOR PIVOT SETS**

- A. Comply with ANSI A156.4. Provide stainless steel floor plates for floor closers and floor pivots, except where metal thresholds occur. Provide cement case for all floor closers. Floor closers specified for fire doors shall comply with Underwriters Laboratories, Inc., requirements for concealed type floor closers for classes of fire doors indicated on drawings. Hold-open mechanism, where required, shall engage when door is opened 105 degrees, except when door swing is limited by building construction or equipment, the hold-open feature shall engage when door is opened approximately 90 degrees. The hold-open mechanism shall be selectable on/off by turning a screw through the floor plate. Floor closers shall have adjustable hydraulic back-check, adjustable close speed, and adjustable latch speed. Provide closers with delayed action where a hold-open mechanism is not required. Floor closers shall be multi-sized. Single acting floor closers shall also have built in dead stop. Where required, provide closers with special cement cases appropriate for shallow deck installation or where concrete joint lines run through the floor blockout. At offset-hung doors installed in deep reveals, provide special closer arm and spindle to allow for installation. Where stone or terrazzo is applied over the floor closer

case, provide closer without floor plate and with extended spindle (length as required) and special cover pan (depth as required) to allow closer to be accessed without damaging the material applied over the closer. Pivots for non-labeled doors shall be cast, forged or extruded brass or bronze.

## 2.6 DOOR STOPS

- A. Conform to ANSI A156.16.
- B. Provide door stops wherever an opened door or any item of hardware thereon would strike a wall, column, equipment or other parts of building construction. For concrete, masonry or quarry tile construction, use lead expansion shields for mounting door stops.
- C. Where cylindrical locks with turn pieces or pushbuttons occur, equip wall bumpers Type L02251 (rubber pads having concave face) to receive turn piece or button.
- D. Provide floor stops (Type L02141 or L02161 in office areas; Type L02121 x 3 screws into floor elsewhere. Wall bumpers, where used, must be installed to impact the trim or the door within the leading half of its width. Floor stops, where used, must be installed within 4-inches of the wall face and impact the door within the leading half of its width.
- E. Where drywall partitions occur, use floor stops, Type L02141 or L02161 in office areas, Type L02121 elsewhere.
- F. Provide stop Type L02011, as applicable for exterior doors. At outswing doors where stop can be installed in concrete, provide stop mated to concrete anchor set in 76mm (3-inch) core-drilled hole and filled with quick-setting cement.
- G. Omit stops where floor mounted door holders are required and where automatic operated doors occur.
- H. Provide appropriate roller bumper for each set of doors (except where closet doors occur) where two doors would interfere with each other in swinging.
- I. Provide appropriate door mounted stop on doors in individual toilets where floor or wall mounted stops cannot be used.
- J. Provide overhead surface applied stop Type C02541, ANSI A156.8 on patient toilet doors in bedrooms where toilet door could come in contact with the bedroom door.

- K. Provide door stops on doors where combination closer magnetic holders are specified, except where wall stops cannot be used or where floor stops cannot be installed within 4-inches of the wall.
- L. Where the specified wall or floor stop cannot be used, provide concealed overhead stops (surface-mounted where concealed cannot be used).

## **2.7 OVERHEAD DOOR STOPS AND HOLDERS**

- A. Conform to ANSI Standard A156.8. Overhead holders shall be of sizes recommended by holder manufacturer for each width of door. Set overhead holders for 110 degree opening, unless limited by building construction or equipment. Provide Grade 1 overhead concealed slide type: stop-only at rated doors and security doors, hold-open type with exposed hold-open on/off control at all other doors requiring overhead door stops.

## **2.8 FLOOR DOOR HOLDERS**

- A. Conform to ANSI Standard A156.16. Provide extension strikes for Types L01301 and L01311 holders where necessary.

## **2.9 LOCKS AND LATCHES**

- A. Conform to ANSI A156.2. Locks and latches for doors 45 mm (1-3/4 inch) thick or over shall have beveled fronts. Lock cylinders shall have not less than six pins. Cylinders for all locksets shall be removable core type. Best Access Systems removable core shall be basis of design. Cylinders shall be furnished with construction removable cores and construction master keys. Cylinder shall be removable by special key or tool. Construct all cores so that they will be interchangeable into the core housings of all mortise locks, rim locks, cylindrical locks, and any other type lock included in the Great Grand Master Key System. Disassembly of lever or lockset shall not be required to remove core from lockset. All locksets or latches on double doors with fire label shall have latch bolt with 19 mm (3/4 inch) throw, unless shorter throw allowed by the door manufacturer's fire label. Provide temporary keying device or construction core to allow opening and closing during construction and prior to the installation of final cores.
- B. In addition to above requirements, locks and latches shall comply with following requirements:
  - 1. Mortise Lock and Latch Sets: Conform to ANSI/BHMA A156.13. Mortise locksets shall be series 1000, minimum Grade 2. All locksets and

- latchsets, except on designated doors in Psychiatric (Mental Health) areas, shall have lever handles fabricated from cast stainless steel. Provide sectional (lever x rose) lever design, see hardware sets for basis of design. No substitute lever material shall be accepted. All locks and latchsets shall be furnished with 122.55 mm (4-7/8-inch) curved lip strike and wrought box. At outswing pairs with overlapping astragals, provide flat lip strip with 21mm (7/8-inch) lip-to-center dimension. Lock function F02 shall be furnished with emergency tools/keys for emergency entrance. All lock cases installed on lead lined doors shall be lead lined before applying final hardware finish. Furnish armored fronts for all mortise locks. Where mortise locks are installed in high-humidity locations or where exposed to the exterior on both sides of the opening, provide non-ferrous mortise lock case.
2. Cylindrical Lock and Latch Sets: levers shall meet ADA (Americans with Disabilities Act) requirements. Cylindrical locksets shall be series 4000 Grade I. All locks and latchsets shall be furnished with 122.55 mm (4-7/8-inch) curved lip strike and wrought box. At outswing pairs with overlapping astragals, provide flat lip strip with 21mm (7/8-inch) lip-to-center dimension. Provide lever design to match design selected by Architect or to match existing lever design. Where two turn pieces are specified for lock F76, turn piece on inside knob shall lock and unlock inside knob, and turn piece on outside knob shall unlock outside knob when inside knob is in the locked position. (This function is intended to allow emergency entry into these rooms without an emergency key or any special tool.)
  3. Auxiliary locks shall be as specified under hardware sets and conform to ANSI A156.36.
  4. Locks on designated doors in Psychiatric (Mental Health) areas shall be paddle type with arrow projection covers and be UL Listed. Provide these locks with paddle in the down position on both sides of the door. Locks shall be fabricated of wrought stainless steel.
  5. Privacy locks in non-mental-health patient rooms shall have an inside thumbturn for privacy and an outside thumbturn for emergency entrance. Single occupancy patient privacy doors shall typically swing out; where such doors cannot swing out, provide center-pivoted doors with rescue hardware (see HW-2B).

**2.11 ELECTROMAGNETIC LOCKS**

- A. ANSI/BHMA A156.23; electrically powered, of strength and configuration indicated; with electromagnet attached to frame and armature plate attached to door. Listed under Category E in BHMA's "Certified Product Directory."
1. Type: Full exterior or full interior, as required by application indicated.
  2. Strength Ranking: Grade 1, 1,200 lbf.
  3. Inductive Kickback Peak Voltage: See hardware sets for basis of design.
  4. Residual Magnetism: See hardware sets for basis of design.

**2.13 KEYS**

- A. Stamp all keys with change number and key set symbol. Furnish keys in quantities as follows:

<b>Locks/Keys</b>	<b>Quantity</b>
Cylinder locks	2 keys each
Cylinder lock change key blanks	100 each different key way
Master-keyed sets	6 keys each
Grand Master sets	6 keys each
Great Grand Master set	5 keys
Control key	2 keys

- B. Psychiatric keys shall be cut so that first two bittings closest to the key shoulder are shallow to provide greater strength at point of greatest torque.

**2.14 KEY CABINET**

- A. ANSI Standard A156.11. Provide key cabinet made of cold rolled, 1.2 mm (0.0478 inch) thick furniture steel electro-welded. Doors shall have "no sag" continuous brass-pin piano type hinge and be equipped with chrome plated locking door handles, hook cam and mechanical pushbutton door lock. Key Cabinet and Key Control System shall accommodate all keys for this project plus 25 percent. Provide minimum number of multiple cabinets where a single cabinet of largest size will not accommodate the required number of keys.
- B. Key tags shall consist of two sets: Permanent self-locking and loan key snaphook type with tag colors as follows: Red fiber marker of the

permanent self-locking type approximately 32 mm (1-1/4 inch) in diameter engraved with the legend "FILE KEY MUST NOT BE LOANED." Also furnish for each hook a white cloverleaf key marker with snap-hooks engraved with the legend "LOAN KEY."

- C. The manufacturer of the lock cylinders and locks shall attach a key tag to keys of each lock cylinder and shall mark thereon the respective item number and key change number. Provide each group of keys in a key gathering envelope (supplied by Key Cabinet Manufacturer) in which the lock manufacturer shall include the following information: Item number, key change number and door number. The contractor shall furnish the Key Cabinet Manufacturer the hardware and keying schedules and change keys.
- D. The Key Cabinet Manufacturer shall set up a three-way cross index system, including master keys, listing the keys alphabetically, the hooks numerically and the key changes numerically on different colored index cards. Index cards shall be typewritten and inserted in a durable binder. Attach the keys to the two sets of numbered tags supplied with the cabinet. (The permanent tag and the loan key tag). Instruct the owner in proper use of the system.
- E. Install cabinet as directed by the Resident Engineer.

#### **2.15 ARMOR PLATES, KICK PLATES, MOP PLATES AND DOOR EDGING**

- A. Conform to ANSI Standard A156.6.
- B. Provide protective plates and door edging :
  - 1. Kick plates, mop plates and armor plates of metal, Type J100 series.
  - 2. Provide kick plates and mop plates where specified. Kick plates shall be 254 mm (10 inches) or 305 mm (12 inches) high. Mop plates shall be 152 mm (6 inches) high. Both kick and mop plates shall be minimum 1.27 mm (0.050 inches) thick. Provide kick and mop plates beveled on all 4 edges (B4E). On push side of doors where jamb stop extends to floor, make kick plates 38 mm (1-1/2 inches) less than width of door, except pairs of metal doors which shall have plates 25 mm (1 inch) less than width of each door. Extend all other kick and mop plates to within 6 mm (1/4 inch) of each edge of doors. Kick and mop plates shall butt astragals. For jamb stop requirements, see specification sections pertaining to door frames.
  - 3. Kick plates and/or mop plates are not required on following door sides:
    - a. Armor plate side of doors;

- b. Exterior side of exterior doors;
  - c. Closet side of closet doors;
  - d. Both sides of aluminum entrance doors.
4. Armor plates for doors are listed under Article "Hardware Sets".  
Armor plates shall be thickness as noted in the hardware set, 875 mm (35 inches) high and 38 mm (1-1/2 inches) less than width of doors, except on pairs of metal doors. Provide armor plates beveled on all 4 edges (B4E). Plates on pairs of metal doors shall be 25 mm (1 inch) less than width of each door. Where top of intermediate rail of door is less than 875 mm (35 inches) from door bottom, extend armor plates to within 13 mm (1/2 inch) of top of intermediate rail. On doors equipped with panic devices, extend armor plates to within 13 mm (1/2 inch) of panic bolt push bar.
  5. Where louver or grille occurs in lower portion of doors, substitute stretcher plate and kick plate in place of armor plate. Size of stretcher plate and kick plate shall be 254 mm (10 inches) high.
  6. Provide stainless steel edge guards where so specified at wood doors. Provide mortised type instead of surface type except where door construction and/or ratings will not allow. Provide edge guards of bevel and thickness to match wood door. Provide edge guards with factory cut-outs for door hardware that must be installed through or extend through the edge guard. Provide full-height edge guards except where door rating does not allow; in such cases, provide edge guards to height of bottom of typical lockset armor front. Forward edge guards to wood door manufacturer for factory installation on doors.

#### **2.16 EXIT DEVICES**

- A. Conform to ANSI Standard A156.3. Exit devices shall be Grade 1; type and function are specified in hardware sets. Provide flush with finished floor strikes for vertical rod exit devices in interior of building. Trim shall have cast satin stainless steel lever handles of design similar to locksets, unless otherwise specified. Provide key cylinders for keyed operating trim and, where specified, cylinder dogging.
- B. Surface vertical rod panics shall only be provided less bottom rod; provide fire pins as required by exit device and door fire labels. Do not provide surface vertical rod panics at exterior doors.

- C. Concealed vertical rod panics shall be provided less bottom rod at interior doors, unless lockable or otherwise specified; provide fire pins as required by exit device and door fire labels. Where concealed vertical rod panics are specified at exterior doors, provide with both top and bottom rods.
- D. Where removable mullions are specified at pairs with rim panic devices, provide mullion with key-removable feature.
- E. At non-rated openings with panic hardware, provide panic hardware with key cylinder dogging feature.
- F. Exit devices for fire doors shall comply with Underwriters Laboratories, Inc., requirements for Fire Exit Hardware. Submit proof of compliance.

#### **2.17 FLUSH BOLTS (LEVER EXTENSION)**

- A. Conform to ANSI A156.16. Flush bolts shall be Type L24081 unless otherwise specified. Furnish proper dustproof strikes conforming to ANSI A156.16, for flush bolts required on lower part of doors.
- B. Lever extension manual flush bolts shall only be used at non-fire-rated pairs for rooms only accessed by maintenance personnel.
- C. Face plates for cylindrical strikes shall be rectangular and not less than 25 mm by 63 mm (1 inch by 2-1/2 inches).
- D. Friction-fit cylindrical dustproof strikes with circular face plate may be used only where metal thresholds occur.
- E. Provide extension rods for top bolt where door height exceeds 2184 mm (7 feet 2 inches).

#### **2.18 FLUSH BOLTS (AUTOMATIC)**

- A. Conform to ANSI A156.3. Dimension of flush bolts shall conform to ANSI A115. Bolts shall conform to Underwriters Laboratories, Inc., requirements for fire door hardware. Flush bolts shall automatically latch and unlatch. Furnish dustproof strikes conforming to ANSI A156.16 for bottom flushbolt. Face plates for dustproof strike shall be rectangular and not less than 38 mm by 90 mm (1-1/2 by 3-1/2 inches).
- B. At interior doors, provide auto flush bolts less bottom bolt, unless otherwise specified, except at wood pairs with fire-rating greater than 20 minutes; provide fire pins as required by auto flush bolt and door fire labels.

#### **2.20 PUSH PLATES**

- A. Conform to ANSI A156.6. Metal, Type J302, 203 mm (8 inches) wide by 406.4 mm (16 inches) high. Provide metal Type J302 plates 102 mm (4



inches) wide by 406.4 mm (16 inches) high where push plates are specified for doors with stiles less than 203 mm (8 inches) wide. Cut plates for cylinders, and turn pieces where required.

### **2.23 THRESHOLDS**

- A. Conform to ANSI A156.21, mill finish extruded aluminum, except as otherwise specified. In existing construction, thresholds shall be installed in a bed of sealant with ¼-20 stainless steel machine screws and expansion shields. In new construction, embed aluminum anchors coated with epoxy in concrete to secure thresholds. Furnish thresholds for the full width of the openings.
- B. For thresholds at elevators entrances see other sections of specifications.
- C. At exterior doors and any interior doors exposed to moisture, provide threshold with non-slip abrasive finish.
- D. Provide with miter returns where threshold extends more than 12 mm (0.5 inch) beyond face of frame.

### **2.25 WEATHERSTRIPS (FOR EXTERIOR DOORS)**

- A. Conform to ANSI A156.22. Air leakage shall not to exceed 0.50 CFM per foot of crack length (0.000774m<sup>3</sup>/s/m).

### **2.26 MISCELLANEOUS HARDWARE**

- A. Access Doors (including Sheet Metal, Screen and Woven Wire Mesh Types): Except for fire-rated doors and doors to Temperature Control Cabinets, equip each single or double metal access door with Lock Type E07213, conforming to ANSI A156.11. Key locks as directed. Ship lock prepaid to the door manufacturer. Hinges shall be provided by door manufacturer.
- B. Cylinders for Various Doors: Key cylinders as directed by owner with same Grand Master keying system. Provide cylinders to operate locking devices where specified for following doors:
  1. Coiling counter doors.
  2. Aluminum sliding doors.
  3. Cabinets.
- C. Mutes: Conform to ANSI A156.16. Provide door mutes or door silencers Type L03011 or L03021, depending on frame material, of white or light gray color, on each steel or wood door frame, except at fire-rated frames, lead-lined frames and frames for sound-resistant, lightproof and electromagnetically shielded doors. Furnish 3 mutes for single doors and 2 mutes for each pair of doors, except double-acting doors. Provide 4 mutes or silencers for frames for each Dutch type door. Provide 2 mutes for each edge of sliding door which would contact door frame.

**2.28 THERMOSTATIC TEMPERATURE CONTROL VALVE CABINETS**

- A. Where lock is shown, equip each cabinet door (metal) with lock Type E06213, conforming to ANSI A156.36. Key locks in Key Sets approved by Contracting Officer. See mechanical drawings and specifications for location of cabinets.
- B. Cabinet manufacturer shall supply the hinges, bolts and pulls. Ship locks to cabinet manufacturer for installation.

**2.30 FINISHES**

- A. See hardware sets for basis of design for hardware finishes. Exposed surfaces of hardware shall have ANSI A156.18, finishes as specified below. Finishes on all hinges, pivots, closers, thresholds, etc., shall be as specified below under "Miscellaneous Finishes." For field painting (final coat) of ferrous hardware, see Section 09 91 00, PAINTING.
- B. 626 or 630: All surfaces on exterior and interior of buildings, except where other finishes are specified.
- C. Miscellaneous Finishes:
  - 1. Hinges --exterior doors: 626 or 630.
  - 2. Hinges --interior doors: 652 or 630.
  - 3. Pivots: Match door trim.
  - 4. Door Closers: Factory applied paint finish. Dull or Satin Aluminum color.
  - 5. Thresholds: Mill finish aluminum.
  - 6. Cover plates for floor hinges and pivots: 630.
  - 7. Other primed steel hardware: 600.
- D. Hardware Finishes for Existing Buildings: U.S. Standard finishes shall match finishes of hardware in (similar) existing spaces except where otherwise specified.
- F. Anti-microbial Coating: All hand-operated hardware (levers, pulls, push bars, push plates, paddles, and panic bars) shall be provided with an anti-microbial/anti-fungal coating that has passed ASTM E2180 tests. Coating to consist of ionic silver (Ag+). Silver ions surround bacterial cells, inhibiting growth of bacteria, mold, and mildew by blockading food and respiration supplies.

**2.31 BASE METALS**

- A. Apply specified U.S. Standard finishes on different base metals as following:

Finish	Base Metal
652	Steel
626	Brass or bronze
630	Stainless steel

**PART 3 - EXECUTION****3.1 HARDWARE HEIGHTS**

- A. For new buildings locate hardware on doors at heights specified below, with all hand-operated hardware centered within 864 mm (34 inches) to 1200 mm (48 inches), unless otherwise noted.
- B. Hardware Heights from Finished Floor:
1. Exit devices centerline of strike (where applicable) 1024 mm (40-5/16 inches).
  2. Locksets and latch sets centerline of strike 1024 mm (40-5/16 inches).
  3. Deadlocks centerline of strike 1219 mm (48 inches).
  4. Hospital arm pull 1168 mm (46 inches) to centerline of bottom supporting bracket.
  5. Centerline of door pulls to be 1016 mm (40 inches).
  6. Push plates and push-pull shall be 1270 mm (50 inches) to top of plate.
  7. Push-pull latch to be 1024 mm (40-5/16 inches) to centerline of strike.
  8. Locate other hardware at standard commercial heights. Locate push and pull plates to prevent conflict with other hardware.

**3.2 INSTALLATION**

- A. Closer devices, including those with hold-open features, shall be equipped and mounted to provide maximum door opening permitted by building construction or equipment. Closers shall be mounted on side of door inside rooms, inside stairs, and away from corridors except security bedroom, bathroom and anteroom doors which shall have closer installed parallel arm on exterior side of doors. At exterior doors, closers shall be mounted on interior side. Where closers are mounted on doors they shall be mounted with sex nuts and bolts; foot shall be fastened to frame with machine screws.

- B. Hinge Size Requirements:

Door Thickness	Door Width	Hinge Height
45 mm (1-3/4 inch)	900 mm (3 feet) and less	113 mm (4-1/2 inches)

45 mm (1-3/4 inch)	Over 900 mm (3 feet) but not more than 1200 mm (4 feet)	125 mm (5 inches)
35 mm (1-3/8 inch) (hollow core wood doors)	Not over 1200 mm (4 feet)	113 mm (4-1/2 inches)

C. Hinge leaves shall be sufficiently wide to allow doors to swing clear of door frame trim and surrounding conditions.

D. Where new hinges are specified for new doors in existing frames or existing doors in new frames, sizes of new hinges shall match sizes of existing hinges; or, contractor may reuse existing hinges provided hinges are restored to satisfactory operating condition as approved by Resident Engineer. Existing hinges shall not be reused on door openings having new doors and new frames. Coordinate preparation for hinge cut-outs and screw-hole locations on doors and frames.

E. Hinges Required Per Door:

Doors 1500 mm (5 ft) or less in height	2 butts
Doors over 1500 mm (5 ft) high and not over 2280 mm (7 ft 6 in) high	3 butts
Doors over 2280 mm (7 feet 6 inches) high	4 butts
Dutch type doors	4 butts
Doors with spring hinges 1370 mm (4 feet 6 inches) high or less	2 butts
Doors with spring hinges over 1370 mm (4 feet 6 inches)	3 butts

F. Fastenings: Provide tamperproof screws and fasteners. Suitable size and type and shall harmonize with hardware as to material and finish. Provide machine screws and lead expansion shields to secure hardware to concrete, ceramic or quarry floor tile, or solid masonry. Fiber or rawl plugs and adhesives are not permitted. All fastenings exposed to weather shall be of nonferrous metal.

G. After locks have been installed; show in presence of Resident Engineer that keys operate their respective locks in accordance with keying requirements. (All keys, Master Key level and above shall be sent Registered Mail to the Medical Center Director along with the bitting list. Also a copy of the invoice shall be sent to the Resident Engineer for his records.) Installation of locks which do not meet specified

keying requirements shall be considered sufficient justification for rejection and replacement of all locks installed on project.

### **3.3 FINAL INSPECTION**

- A. Installer to provide letter to VA Resident/Project Engineer that upon completion, installer has visited the Project and has accomplished the following:
1. Re-adjust hardware.
  2. Evaluate maintenance procedures and recommend changes or additions, and instruct VA personnel.
  3. Identify items that have deteriorated or failed.
  4. Submit written report identifying problems.

### **3.4 DEMONSTRATION**

- A. Demonstrate efficacy of mechanical hardware and electrical, and electronic hardware systems, including adjustment and maintenance procedures, to satisfaction of Resident/Project Engineer and VA Locksmith.

### **3.5 HARDWARE SETS**

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should 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 and functionality.

B. Manufacturer's Abbreviations:

1. MK - McKinney
2. MR - Markar
3. PE - Pemko
4. RO - Rockwood
5. SA - Sargent
6. OT - By Others
7. SI - Simplex-KABA ILCO
8. SU - Securitron
9. HS - HES
10. RF - Rixson
11. NO - Norton
12. HA - Hager

- C. Provide UL listed hardware at all fire rated openings.
- D. Provide 1 Door Seal (ROE154) S88 BL (head & jambs) PE at all fire rated openings.
- E. Hardware Schedule

Set: 1.0

Doors: 177, 189

2	Continuous Hinge	HT KCFM83-HD1 EL-CEPT x Dr Ht		PE
1	Removable Mullion	L980A	US28	SA
1	Exit Device-Delay (elec. trim)	SG 59 72 8876-24v ETL	US32D	SA
1	Exit Device (delay, eo)	SG 59 8510	US32D	SA
1	Cylinder Housing (rim)	70 34	US32D	SA
3	Cylinder Housing (mortise)	70 43	US32D	SA
4	Core	1CP61 (verify keyway)	626	SA
2	Surface Closer	PS2800STH TBGN	689	NO
1	Threshold	2009APK		PE
1	Weatherstrip	By door/frame supplier		PE
2	Sweep	345ANB		PE
1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
2	Position Switch (surface)	DPS-M / W-GY (as required)		SU
1	Keyswitch (momentary)	MK		SU
1	Timer TM-9			SU
1	Door Release	TS-18		AK
1	Power Supply	BPS (size & type as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		

Notes:

- \* Closer to be installed on push side.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Undercut door to allow sweep to come in contact with threshold for weather resistant seal.
- \* Operation Narrative:
  - Door is normally closed and locked preventing access and delaying exit.
  - Red LED in rail to indicate that delay feature is armed.
  - Door is monitored for propped door and unauthorized access.
  - Key in exterior key switch initiates timer, unlocks exterior trim and shunts door position switch and alarm to allow authorized entry.
  - Unauthorized egress attempts will initiate alarm sequence as determined by facility and egress will be allowed after 15 seconds.
  - Door delay feature may be momentarily released by remote push button at care team center desk and Green LED will indicate egress is available.
  - Release of push button will re-arm the delay feature and change the LED to Red.
  - Doors may be left unlocked from exterior, delay feature disengaged and position switches shunted during designated hours by key in rail for free access and exit.
  - In the event of a fire alarm activation, delay feature will release allowing immediate egress but door position switches will remain active to alert staff of egress through opening.

Set: 2.0

Doors: 001,002

1	Continuous Hinge	HT CFMxxSLI-HD1 x Door Ht		PE
1	Storeroom Lock	LC 8204 LNL	US32D	SA
1	Core	1CP61 (verify core)	626	BE
1	Cylinder Housing (mortise)	70 43	US32D	SA
1	Concealed Overhead Stop	1-X36	630	RF
1	Surface Closer	2800ST TBGN	689	NO
1	Kick Plate (J102)	K1050 10" x 2" LDW 4BE CSK	US32D	RO
1	Threshold	2009APK		PE
1	Gasketing	294AV		PE
1	Rain Guard	346C		PE
1	Sweep	345ANB		PE
1	Position Switch (surface)	DPS-M / W-GY (as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		SA

## Notes:

- \* Closer to be installed on pull side.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Undercut door to allow sweep to come in contact with threshold for weather resistant seal.

Set: 3.0

Doors: C110, C112

1	Continuous Hinge	HG305 HT EL-CEPT AS	630	MR
1	Exit Device-Delay (elec. trim)	SG 59 72 8876-24v ETL	US32D	SA
2	Core	1CP61 (verify core)	626	BE
1	Cylinder Housing (rim)	70 34	US32D	SA
1	Cylinder Housing (mortise)	70 43	US32D	SA
1	Concealed Overhead Stop	1-X36	630	RF
1	Surface Closer	PS2800ST TBGN	689	NO
1	Armor Plate	K1050 35" x 2" LDW 4BE CSK	US32D	RO
1	Threshold	2009APK		PE
1	Gasketing	294AV		PE
1	Rain Guard	346C		PE
1	Sweep	345ANB		PE
1	Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630	MR
2	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK
1	Position Switch (surface)	DPS-M / W-GY (as required)		SU
1	Power Supply	BPS (size & type as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		SA

## Notes:

- \* Closer to be installed on push side.
- \* Provide security fasteners for all hardware items.

- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Undercut door to allow sweep to come in contact with threshold for weather resistant seal.
- \* Coordinate sizes of hinge guards, edge guards and armor plate for no more than 1/4" spacing between protection items.
- \* Operation Narrative:
  - Door is normally closed and locked preventing access and delaying exit.
  - Door position is monitored for propped door and unauthorized use.
  - Unauthorized egress attempts will initiate alarm sequence as determined by facility and egress will be allowed after 15 seconds.
  - Presentation of authorized credential to card reader on exterior allows entry and shunts alarm signal.
  - Presentation of authorized credential to card reader on the inside allows immediate egress without alarm.
  - Door delay may be released by emergency override push button at care team center desk.
  - Re-pressing button will re-arm the delay feature.-In the event of a loss of power or fire alarm activation, delay feature will release allowing immediate egress but door will remain locked from exterior.
  - Door position switches will remain active to alert staff of egress through opening.
  - Egress is delayed for resident and staff safety.

Set: 3.1

Doors: 218C

1	Continuous Hinge	HT CFMxxSLI-HD1 EL-CEPT x Dr Ht			PE
1	Weatherized Exit Device-Delay (rim)	10 EU EE	630		DE
1	Core	1CP61 (verify core)	626		BE
1	Cylinder Housing (rim)	70 34	US32D		SA
1	Cylinder Housing (mortise)	70 43	US32D		SA
1	Magnetic Lock (E08501)	M62BD			SU
1	Concealed Overhead Stop	1-X36	630		RF
1	Surface Closer	2800ST TBGN	689	NO	
1	Threshold	2009APK			PE
1	Gasketing	294AV			PE
1	Rain Guard	346C			PE
1	Sweep	345ANB			PE
2	Card Reader,				
	Accessories, wiring	by Security System Supplier	BLK		HD
1	Door Wire Harness	QC-C*** (Length / Type as Required)			MK
1	Frame Wire Harness	QC-C1500P			MK
1	Strobe/Horn (remote)	HS2B			DE
1	Logic Controller (power supply)		80-800	(sized	
	for components)		DE		
1	Position Switch				
	(surface)	MSS-1			SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)			SA

## Notes:

- \* Closer to be installed on pull side.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.



- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Unauthorized use of opening sends signal to remote strobe/horn. (verify location)
  - \* Mount magnetic lock on conditioned side of opening.
- \* Undercut door to allow sweep to come in contact with threshold for weather resistant seal.
- \* Operation Narrative:
  - Door is normally closed and locked preventing access to roof and delaying exit from roof.
  - Door position is monitored for propped door and unauthorized use.
  - Unauthorized egress attempts will initiate alarm sequence as determined by facility and egress will be allowed after 15 seconds.
  - Presentation of authorized credential to card reader on exterior released delay feature, allows entry and shunts DPS alarm signal.
  - Presentation of authorized credential to card reader on the inside allows immediate access to roof without alarm. -In the event of a loss of power or fire alarm activation, delay feature will release allowing immediate egress but door will remain locked to prevent access to roof.
  - Door position switches will remain active to alert staff of egress through opening.
  - Key override is available for emergency access.

Set: 4.0

Doors: 152

1	Continuous Hinge	HG305 HT EL-CEPT AS	630	MR
1	Behavioral Lock (wave)	RX SG 72 8271-24V BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
1	Surface Closer	PS2800STH TBGN	689	NO
1	Armor Plate	K1050 35" x 2" LDW 4BE CSK	US32D	RO
1	Wall Stop-Convex	(L02101-Cast) 400 TORX	US26D	RO
1	Edge Guard EG308 86M AS x Door Ht		630	MR
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK
1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
1	Position Switch	DPS-M / W-GY (as required)		SU
1	Power Supply	BPS (size & type as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		SA

Notes:

- \* Closer to be installed on push side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Coordinate sizes of hinge guards, edge guards and armor plate for no more than 1/4" spacing between protection items.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Operation Narrative:
  - Door is normally closed and locked.
  - Door position is monitored for propped door and unauthorized use.
  - When the correct credential is presented to the card reader the lock will release and allow entry.

- Door may be left unlocked during designated hours by access control system.
- In the event of a loss of power or fire alarm activation, door will become unlocked.
- Free egress is allowed at all times.

Set: 4.1

Doors: 152A

1	Continuous Hinge	HG305 HT EL-CEPT AS	630	MR
1	Behavioral Lock (wave)	RX SG 72 8271-24V BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
1	Surface Closer	PS2800STH TBGN	689	NO
1	Armor Plate	K1050 35" x 2" LDW 4BE CSK	US32D	RO
1	Wall Stop-Convex	(L02101-Cast) 400 TORX	US26D	RO
1	Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630	MR
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK
1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
1	Position Switch	DPS-M / W-GY (as required)		SU
1	Power Supply	BPS (size & type as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		SA

Notes:

- \* Closer to be installed on push side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Coordinate sizes of hinge guards, edge guards and armor plate for no more than 1/4" spacing between protection items.
- \* Operation Narrative:
  - Door is normally closed and locked.
  - Door position is monitored for propped door and unauthorized use.
  - When the correct credential is presented to the card reader the lock will release and allow entry.
  - Door may be left unlocked during designated hours by access control system.
  - In the event of a loss of power or fire alarm activation, door will become unlocked.
  - Free egress is allowed at all times.

Set: 5.0

Doors: 108, 155

3	Hinge (heavy weight)	H T4A3786 4-1/2" x 4-1/2"	US26D	MK
1	Behavioral Lock (wave)	SG 72 8271-24V BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
1	Surface Closer (pull side)	2800ST TBGN	689	NO
1	Kick Plate (J102)	K1050 10" x 2" LDW 4BE CSK	US32D	RO
1	Wall Stop-Convex	L02101-Cast) 400 TORX	US26D	RO
1	Edge Guard (208M-CO)	310BS S/B/BS Cut for Hardware	US32D	RO
1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD

1	Electric Power Transfer	EL-CEPT	SU
1	Door Wire Harness	QC-C*** (Length / Type as Required)	MK
1	Frame Wire Harness	QC-C1500P	MK
1	Position Switch	DPS-M / W-GY (as required)	SU
1	Power Supply	BPS (size & type as required)	SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)	SA

## Notes:

- \* Closer to be installed on pull side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Operation Narrative:
  - Door is normally closed and locked.
  - When the correct credential is presented to the card reader the lock will release and allow entry.
  - Door may be left unlocked during designated hours by access control system.
  - In the event of a loss of power or fire alarm activation, door will become unlocked.
  - Free egress is allowed at all times.

Set: 5.1

Doors: 111

3	Hinge (heavy weight)	H T4A3786 4-1/2" x 4-1/2"	US26D	MK
1	Behavioral Lock (wave)	RX SG 72 8271-24V BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
1	Surface Closer (pull side)	2800ST TBGN	689	NO
1	Kick Plate (J102)	K1050 10" x 2" LDW 4BE CSK	US32D	RO
1	Wall Stop-Convex	L02101-Cast) 400 TORX	US26D	RO
1	Edge Guard (208M-CO)	310BS S/B/BS Cut for Hardware	US32D	RO
1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
1	Electric Power Transfer	EL-CEPT	SU	
1	Door Wire Harness	QC-C*** (Length / Type as Required)	MK	
1	Frame Wire Harness	QC-C1500P	MK	
1	Position Switch	DPS-M / W-GY (as required)	SU	
1	Power Supply	BPS (size & type as required)	SU	
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)	SA	

## Notes:

- \* Closer to be installed on pull side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Operation Narrative:
  - Door is normally closed and locked.
  - Door position is monitored for propped door and unauthorized use.
  - Presentation of authorized credential to card reader will unlock trim, shunt door position switch and allow entry.

- Trim to re-lock 10 seconds after card is read and door becomes secure upon closing.-Door may be left unlocked during designated hours by access control system.
- In the event of a loss of power or fire alarm activation, door will become unlocked.
- Free egress is allowed at all times.

Set: 6.0

Doors: 107A, C102, 163, 168

1	Continuous Hinge (swing clear)	HG305 HT EL-CEPT-SC AS	630	MR
1	Behavioral Lock (wave)	SG 72 8271-24V BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
1	Surface Closer	2800STH TBGN	689	NO
1	Armor Plate	K1050 35" x 2" LDW 4BE CSK	US32D	RO
1	Wall Stop-Convex	(L02101-Cast)400 TORX	US26D	RO
1	Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630	MR
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK
1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
1	Position Switch	DPS-M / W-GY (as required)		SU
1	Power Supply	BPS (size & type as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		SA

Notes:

- \* Closer to be installed on pull side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Coordinate sizes of hinge guards, edge guards and kick plate for no more than 1/4" spacing between protection items.
- \* Install indicated electrified components for future connection to access control system.
- \* Door lockset to operate mechanically until connection to access control system is provided.
- \* Operation Narrative:
  - Free egress is allowed at all times.

Set: 7.0

Doors: 170A

1	Continuous Hinge (swing clear)	HG326 HT MBAS	630	MR
1	Behavioral Lock (wave)	SG 72 8204 BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
1	Electric Strike (E09321)	1006-12/24-LBM x 2004M	630	HS
1	SMART Pac Bridge Rectifier	2005M3		HS
1	Automatic Operator	Specified in Section 08 71 13.11		
1	Armor Plate	K1050 35" x 2" LDW 4BE CSK	US32D	RO
1	WallStop	400 TORX	US26D	RO
1	Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630	MR
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK
2	Door Operator Switch	Specified in Section 08 71 13.11		
2	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD

1	Position Switch	DPS-M / W-GY (as required)	SU
1	Motion Sensor	XMS	SU
1	Power Supply	BPS (size & type as required)	SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)	SA

## Notes:

- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Coordinate sizes of hinge guards, edge guards and armor plate for no more than 1/4" spacing between protection items.
- \* Operation Narrative:
  - Door is normally closed and locked to prevent access to Unit Entry 170.
  - Door position is monitored for propped door and unauthorized use.
  - Presentation of an authorized credential to card reader unlocks electric strike, shunts door position switch and powers automatic operator to open door.
  - Electric strike to re-lock 10 seconds after card is read and door becomes secure upon completion of operator cycle.-Door may be left unlatched for push/pull operation during designated hours by access control system.
  - Inside vestibule automatic operator switch is always active.
  - In the event of a loss of power or fire alarm activation, door will close and become unlocked.
  - Free access to patient area from vestibule is always available.

Set: 7.1

Doors: 112A

1	Continuous Hinge (swing clear, ept)	HG326 7'0 HT EL-EPT-SC AS 630 MR	
1	Exit Device-Delay (elec. trim)	SG 59 72 8876-24v ETL	US32D SA
1	Core	1CP61 (verify core)	626 BE
1	Automatic Operator	Specified in Section 08 71 13.11	
1	Armor Plate	K1050 35" x 2" LDW 4BE CSK	US32D RO
1	Wall Stop	400 TORX	US26D RO
1	Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630 MR
1	Door Wire Harness	QC-C*** (Length / Type as Required)	MK
1	Frame Wire Harness	QC-C1500P	MK
2	Door Operator Switch	Specified in Section 08 71 13.11	
2	Card Reader,		
	Accessories, wiring	by Security System Supplier	BLK HD
1	Position Switch	DPS-M / W-GY (as required)	SU
1	Motion Sensor	XMS	SU
1	Power Supply	BPS (size & type as required)	SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)	SA

## Notes:

- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Install indicated electrified components for future connection to access control system.
- \* Door lockset to operate mechanically until connection to access control system is provided.

- \* Coordinate sizes of hinge guards, edge guards and armor plate for no more than 1/4" spacing between protection items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Operation Narrative:
  - Door is normally closed and locked permitting delayed egress and exit.
  - When the correct credential is presented to the card reader retract latches, power automatic operator switch and allow manual or automatic entry.
  - Door may be left unlatched for push/pull operation during designated hours by access control system.
  - Inside automatic operator switch is always active.
  - In the event of a loss of power or fire alarm activation, door will close and become unlocked.
  - Free egress is allowed at all times.

Set: 7.2

Doors: 170B

1	Continuous Hinge (swing clear, ept) HG326 7'0	HT EL-CEPT-SC AS 630 MR		
1	Exit Device	SG 59 72 8875-24v ETL	US32D SA	
1	Core	1CP61 (verify core)	626 BE	
1	Automatic Operator	Specified in Section 08 71 13.11		
1	Armor Plate	K1050 35" x 2" LDW 4BE CSK	US32D RO	
1	Wall Stop (L02121)	400 TORX	US26D RO	
1	Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630 MR	
1	Door Wire Harness	QC-C*** (Length / Type as Required)	MK	
1	Frame Wire Harness	QC-C1500P	MK	
2	Door Operator Switch	Specified in Section 08 71 13.11		
1	Card Reader,			
	Accessories, wiring	by Security System Supplier	BLK HD	
1	Position Switch	DPS-M / W-GY (as required)	SU	
1	Motion Sensor	XMS	SU	
1	Power Supply	BPS (size & type as required)	SU	
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)	SA	

## Notes:

- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Install indicated electrified components for future connection to access control system.
- \* Door lockset to operate mechanically until connection to access control system is provided.
- \* Coordinate sizes of hinge guards, edge guards and armor plate for no more than 1/4" spacing between protection items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Operation Narrative:
  - Door is normally closed and locked permitting delayed egress and exit.
  - When the correct credential is presented to the card reader retract latches, power automatic operator switch and allow manual or automatic entry.

- Door may be left unlatched for push/pull operation during designated hours by access control system.
- Inside automatic operator switch is always active.
- In the event of a loss of power or fire alarm activation, door will close and become unlocked.
- Free egress is allowed at all times.

Set: 8.0

Doors: 112, 150, 151

1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
1	Cylinder	73 41 (for keyswitch)	US32D	SA
1	Core	1CP61 (verify keyway)	US15	SA
1	Timer	Provided by security system supplier		

## Notes:

- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Balance of hardware by door system supplier.
- \* Prepare door system for future connection to access control system.
- \* Operation Narrative:
  - Door is normally closed and locked to prevent exterior access.
  - Timer in access control system powers and removes power from door system's automatic operation.-In the event of a fire alarm activation, door will close become unlocked.
  - In the event of a loss of power door will close and become secure.
  - Emergency egress by break away feature is allowed at all times.

Set: 9.0

Doors: C101

2	Swing Clear Continuous Hinge	HG326 HT MB EL-CEPT-SC AS	630	MR
2	Exit Device-Delay (electrified)	EL-TSB-CL	US32D	SU
1	Cylinder	70 43 (for keyswitch)	US32D	SA
1	Core	1CP61 (verify keyway)	US15	SA
2	Magnetic Lock (E08501)	SAM		SU
2	Automatic Operator	Specified in Section 08 71 13.11		
4	Armor Plate (UL)	K1050 F 35" x 1" LDW 4BE CSK	US32D	RO
2	Wall Stop-Convex	400 TORX	US26D	RO
1	Meeting Stile Gasket (ROE155)	S772		PE
2	Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630	MR
1	Interlock Relay	RLP-24		SU
1	Timer	Provided by security system supplier		
2	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
2	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
2	Frame Wire Harness	QC-C1500P		MK
1	Keyswitch	MKAN2		SU
2	Door Operator Switch	Specified in Section 08 71 13.11		
2	Position Switch	DPS-M / W-GY (as required)		SU
1	Alarm Horn	PZ1		SU
1	Power Supply	BPS (size & type as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		SA
2	Mag Hold Open	994		RF

## Notes:

- \* Card Reader by security consultant.
- \* 120VAC Power, conduit, and wiring by division 26.
- \* Gasket to be perforated to reduce linear strength.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Coordinate sizes of hinge guards, edge guards and armor plate for no more than 1/4" spacing between protection items.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Connect door magnets to fire alarm control panel for disconnect in a fire alarm activation.
- \* Operation narrative:
  - Doors are normally closed and secured by magnetic locks.
  - Door position is monitored for propped door and unauthorized use.
  - Magnets are not to allow access through opening when door C101A is open unless overridden by card reader.
  - Presentation of an authorized credential to card reader from either side unlocks magnetic locks, shunts door position switches and alarms and powers automatic operator to open doors.
  - Door magnets to re-energize 10 seconds after card is read and doors will close, become secured and begin to monitor door status after completion of automatic operator cycle.
  - Unauthorized use attempts will initiate a timed response for release of magnets after 15 second delay and immediately send signal to alarm to sound until reset by staff.
  - Automatic operation is not available for use in unauthorized use attempts.
  - Upon activation of the fire alarm system door magnets will be disabled with operators active by push & go feature to allow free assisted egress from either direction.
  - Free egress is always available but alarm will sound without use of authorized credential.

Set: 10.0

Doors: 167A, 167B

3	Hinge Spring (hvy wt.)	1522 HT 4-1/2" x 4-1/2"	US26D	MK
1	Behavioral Lock (wave)	SG 72 8271-24V BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
1	Kick Plate (J102)	K1050 10" x 2" LDW 4BE CSK	US32D	RO
1	Wall Stop-Convex	400 TORX	US26D	RO
1	Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630	MR
1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
1	Electric Power Transfer	EL-CEPT		SU
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK

## Notes:

- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Install indicated electrified components for future connection to access control system.



- \* Provide conduit to extend wire harness in wall construction to above ceiling for shortened frame condition.
- \* Door lockset to operate mechanically until connection to access control system is provided.
- \* Operation Narrative:
  - Door is normally closed and locked.
  - When the correct credential is presented to the card reader the lock will release and allow entry.
  - In the event of a loss of power or fire alarm activation, door will become unlocked.
  - Free egress is allowed at all times.

Set: 11.0

Doors: 156, 157, 180

3	Hinge (heavy weight)	H T4A3786 5" x 4-1/2"	US26D	MK
1	Behavioral Lock (wave)	RX SG 72 8271-24V BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
1	Surface Closer	2800ST TBGN	689	NO
1	Kick Plate (J102)	K1050 10" x 2" LDW 4BE CSK	US32D	RO
1	Wall Stop-Convex	400 TORX	US26D	RO
1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
1	Electric Power Transfer	EL-CEPT		SU
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK
1	Position Switch	DPS-M / W-GY (as required)		SU
1	Power Supply	BPS (size & type as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		SA

## Notes:

- \* Closer to be installed on pull side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Operation Narrative:
  - Door is normally closed and locked.
  - Door position is monitored for propped door and unauthorized use.
  - When the correct credential is presented to the card reader the lock will release and allow entry.
  - In the event of a loss of power or fire alarm activation, door will remain locked.
  - Free egress is allowed at all times.

Set: 11.1

Doors: 159

3	Hinge (heavy weight)	H T4A3786 4-1/2" x 4-1/2"	US26D	MK
1	Behavioral Lock (wave)	RX SG 72 8271-24V BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
1	Surface Closer	2800ST TBGN 689 NO		
1	Armor Plate	K1050 35" x 2" LDW 4BE CSK	US32D	RO
1	Wall Stop-Convex	400 TORX	US26D	RO

1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
1	Electric Power Transfer	EL-CEPT		SU
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK
1	Position Switch	DPS-M / W-GY (as required)		SU
1	Power Supply	BPS (size & type as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		SA

## Notes:

- \* Closer to be installed on pull side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Operation Narrative:
  - Door is normally closed and locked.
  - Door position is monitored for propped door and unauthorized use.
  - Presentation of an authorized credential to card reader will unlock trim and allow entry.
  - Trim to re-lock 10 seconds after card is read and door will become secure upon closing.-In the event of a loss of power or fire alarm activation, door will remain locked.
  - Free egress is allowed at all times.

Set: 11.2

Doors: 165A, 165B, 166A, 166B, 172

3	Hinge (heavy weight)	H T4A3786 5" x 4-1/2"	US26D	MK
1	Behavioral Lock (wave)	RX SG 72 8271-24V BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
1	Surface Closer	2800ST TBGN	689	NO
1	Kick Plate (J102)	K1050 10" x 2" LDW 4BE CSK	US32D	RO
1	Wall Stop-Convex	400 TORX	US26D	RO
1	Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630	MR
1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
1	Electric Power Transfer	EL-CEPT		SU
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK
1	Position Switch	DPS-M / W-GY (as required)		SU
1	Power Supply	BPS (size & type as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		SA

## Notes:

- \* Closer to be installed on pull side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Operation Narrative:
  - Door is normally closed and locked.
  - Door position is monitored for propped door and unauthorized use.

- Presentation of authorized credential to card reader will unlock trim, shunt door position switch and allow entry.
- Trim to re-lock 10 seconds after card is read and door becomes secure upon closing.
- Door may be left unlocked during designated hours by access control system.-In the event of a loss of power or fire alarm activation, door will remain locked.
- Free egress is allowed at all times.

Set: 11.3

Doors: 169

1	Continuous Hinge (swing clear)	HG326 HT MB AS	630	MR
1	Behavioral Lock (wave)	8215 BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
1	Wall Stop-Convex	400 TORX	US26D	RO

## Notes:

- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Operation Narrative:
  - Door is normally closed and locked.
  - Free egress is allowed at all times.

Set: 11.4

Doors: 160, 161

1	Continuous Hinge (ept)	HG326 HT EL-CEPT-SC AS	630	MR
1	Behavioral Lock (wave)	RX SG 72 8271-24V BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
1	Surface Closer	2800ST TBGN	689	NO
1	Kick Plate (J102)	K1050 10" x 2" LDW 4BE CSK	US32D	RO
1	Wall Stop-Convex	400 TORX	US26D	RO
1	Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630	MR
1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
1	Electric Power Transfer	EL-CEPT		SU
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK
1	Position Switch	DPS-M / W-GY (as required)		SU
1	Power Supply	BPS (size & type as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		SA

## Notes:

- \* Closer to be installed on pull side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Install indicated electrified components for future connection to access control system.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Door lockset to operate mechanically until connection to access control system is provided.

Set: 12.0  
Doors: 174

1	Continuous Hinge (swing clear, ept) HG326 HT EL-CEPT-SC AS	630	MR
	180 degree swing		
1	Behavioral Lock (wave) RX SG 72 8271-24V BHW	US32D	SA
1	Core 1CP61 (verify core)	626	BE
1	Surface Closer PS2800ST TBGN	689	NO
1	Armor Plate K1050 35" x 2" LDW 4BE CSK	US32D	RO
1	Wall Stop-Convex 400 TORX	US26D	RO
1	Edge Guard (208M-CO) EG308 86M AS x Door Ht	630	MR
1	Card Reader,		
	Accessories, wiring by Security System Supplier	BLK	HD
1	Electric Power Transfer EL-CEPT		SU
1	Door Wire Harness QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness QC-C1500P		MK
1	Position Switch DPS-M / W-GY (as required)		SU
1	Power Supply BPS (size & type as required)		SU
1	Wiring Diagram WD-SYSPK (w/ point to point drawings)		SA

Notes:

- \* Closer to be installed on push side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Coordinate sizes of hinge guards, edge guards and armor plate for no more than 1/4" spacing between protection items.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Operation Narrative:
  - Door is normally closed and locked.
  - Door position is monitored for propped door and unauthorized use.
  - When the correct credential is presented to the card reader the lock will release and allow entry.
  - In the event of a loss of power or fire alarm activation, door will remain locked.
  - Free egress is allowed at all times.

Set: 12.1  
Doors: 156A

1	Continuous Hinge (swing clear, ept) HG326 7'0 HT EL-CEPT-SC	630	MR
	180 degree swing		
1	Behavioral Lock (wave) RX SG 72 8271-24V BHW	US32D	SA
1	Core 1CP61 (verify core)	626	BE
1	Surface Closer PS2800ST TBGN	689	NO
1	Armor Plate K1050 35" x 2" LDW 4BE CSK	US32D	RO
1	Concealed Overhead Stop 1-X36	630	RF
1	Edge Guard (208M-CO) EG308 86M AS x Door Ht	630	MR
1	Card Reader,		
	Accessories, wiring by Security System Supplier	BLK	HD
1	Electric Power Transfer EL-CEPT		SU
1	Door Wire Harness QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness QC-C1500P		MK
1	Position Switch DPS-M / W-GY (as required)		SU
1	Power Supply BPS (size & type as required)		SU

1 Wiring Diagram                      WD-SYSPK (w/ point to point drawings)                      SA

Notes:

- \* Closer to be installed on push side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Install indicated electrified components for future connection to access control system.
- \* Door lockset to operate mechanically until connection to access control system is provided.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Operation Narrative:
  - Door is normally closed and locked.
  - When the correct credential is presented to the card reader the lock will release and allow entry.
  - In the event of a loss of power or fire alarm activation, door will remain locked.
  - Free egress is allowed at all times.

Set: 13.0

Doors: 179

1	Continuous Hinge	HG305 HT EL-CEPT AS	630	MR
1	Behavioral Lock (wave)	RX SG 72 8271-24V BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
1	Electromechanical			
	Closer w/ Sensor	711xSZ 24VDC x Door Size	689	NO
1	Armor Plate	K1050 35" x 2" LDW 4BE CSK	US32D	RO
1	Wall Stop 400 TORX	US26D RO		
1	Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630	MR
1	Card Reader,			
	Accessories, wiring	by Security System Supplier	BLK	HD
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK
1	Position Switch	DPS-M / W-GY (as required)		SU
1	Power Supply	BPS (size & type as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		SA

Notes:

- \* Closer to be installed on pull side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Coordinate sizes of hinge guards, edge guards and armor plate for no more than 1/4" spacing between protection items.
- \* Install indicated electrified components for future connection to access control system.
- \* Door lockset to operate mechanically until connection to access control system is provided.

Set: 14.0

Doors: 158, 192

2	Continuous Hinge (swing clear, ept)	HG326 HT EL-CEPT-SC AS	630	MR
2	Flush Bolt (automatic, set)	2842	US32D	RO
1	Dust Proof Strike	570	US26D	RO
1	Behavioral Lock (wave)	RX SG 72 8271-24V BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
2	Electromechanical Closer w/ Sensor	711xSZ 24VDC x Door Size	689	NO
2	Kick Plate (J102)	K1050 10" x 2" LDW 4BE CSK	US32D	RO
2	Concealed Overhead Stop	1-X36	630	RF
2	Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630	MR
1	Meeting Stile Gasket	(ROE155)S772		PE
1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
1	Electric Power Transfer	EL-CEPT		SU
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK
2	Position Switch	DPS-M / W-GY (as required)		SU
1	Power Supply	BPS (size & type as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		SA

## Notes:

- \* Closer to be installed on push side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Install indicated electrified components for future connection to access control system.
- \* Door lockset to operate mechanically until connection to access control system is provided.

Set: 15.0

Doors: 182, 183

2	Swing Clear ept Continuous Hinge	HG326 HT MB EL-EPT-SC AS	630	MR
1	Flush Bolt (automatic, set)	2842	US32D	RO
1	Dust Proof Strike	570	US26D	RO
1	Behavioral Lock (wave)	RX SG 72 8271-24V BHW	US32D	SA
1	Core	1CP61 (verify core)	626	BE
2	Surface Closer (push side)	PS2800ST TBGN	689	NO
2	Electromagnetic Holder	998 24VDC	689	RF
2	Armor Plate	K1050 35" x 2" LDW 4BE CSK	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
1	Door Seal (ROE154)	S88 BL (head & jambs)		PE
1	Edge Guard	EG308 86M AS x Door Ht	630	MR
1	Edge Guard	EG308 AS x Door Ht	630	MR
1	Edge Guard (Hinge Edge)	EG308 AS x Door Ht	630	MR
1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK
2	Position Switch	DPS-M / W-GY (as required)		SU

1	Power Supply	BPS (size & type as required)	SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)	SA

## Notes:

- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Coordinate sizes of hinge guards, edge guards and armor plate for no more than 1/4" spacing between protection items.
- \* Install indicated electrified components for future connection to access control system.
- \* Door lockset to operate mechanically until connection to access control system is provided.
- \* Operation Narrative:
  - Free egress is allowed at all times.

Set: 16.0

Doors: C101A

2	Swing Clear ept Continuous Hinge	HG326 HT EL-CEPT-SC AS	630	MR
1	Flush Bolt	2962	US26D	RO
1	Dust Proof Strike	570	US26D	RO
2	Magnetic Lock	SAM		SU
2	Exit Device-Delay (mortise	12 SG 59 72 8973-24v ETL	US32D	SA
1	Electric Strike (E09321)	1006-12/24-LBM x 2004M	630	HS
2	Automatic Operator	Specified in Section 08 71 13.11		
4	Armor Plate (UL)	K1050 F 35" x 1" LDW 4BE CSK	US32D	RO
2	Wall Stop-Convex	400 TORX	US26D	RO
2	Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630	MR
1	Meeting Stile Gasket	(ROE155)S772		PE
1	Interlock Relay	RLP-24		SU
2	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
2	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
2	Frame Wire Harness	QC-C1500P		MK
2	Door Operator Switch	Specified in Section 08 71 13.11		
1	Keyswitch	MKAN2		SU
2	Position Switch	DPS-M / W-GY (as required)		SU
1	Door Release	TS-18		AK
1	Power Supply	BPS (size & type as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		SA
2	Mag Hold Open	994		RF

## Notes:

- \* Card Reader by security consultant.
- \* 120VAC Power, conduit, and wiring by division 26.
- \* Gasket to be perforated to reduce linear strength.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Coordinate sizes of hinge guards, edge guards and armor plate for no more than 1/4" spacing between protection items.

## \* Operation narrative:

- Doors are normally closed and secured. -Doors are monitored for propped door and unauthorized use.
- Door magnets are only active when door C101 is opened and become disabled when door closes or are overridden by card readers.
- Presenting authorized credential either side to card reader will momentarily release delayed egress device to allow manual operation and power automatic operator switch to allow assisted operation.
- Doors may also have delay feature released and automatic operator switches enabled by remote push button by staff.
- Doors will re-arm 10 seconds after card is read and will close after completion of manual or automatic operator cycle and become secured.
- Pressing exit device rail without credential for more than 2 seconds will start an audible alarm that must be manually reset at rail and egress will be delayed for 15 seconds.
- In the event of a loss of power or fire alarm activation door delay feature will be removed and doors will become available for use in either direction.
- Egress is delayed except when alarm or emergency releases feature.

Set: 17.0

Doors: 184, 185, 187, 188, 190, 191, 193, 194, 195, 196B

1	Swing Clear Continuous Hinge (ept)	HG326 HT EL-EPT-SC AS	630	MR
1	Behavioral Lock (wave)	RX SG 72 8271-24V BHW	US32D	SA
1	Friction Ball Catch	911RC	US26D	RO
1	Armor Plate	K1050 35" x 2" LDW 4BE CSK	US32D	RO
1	Concealed Overhead Holder	1-X16	630	RF
1	Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630	MR
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK
1	Card Reader, Accessories, wiring	by Security System Supplier	BLK	HD
1	Position Switch	DPS-M / W-GY (as required)		SU
1	Power Supply	BPS (size & type as required)		SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)		SA

## Notes:

- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Coordinate sizes of hinge guards, edge guards and armor plate for no more than 1/4" spacing between protection items.
- \* Install indicated electrified components for future connection to access control system.
- \* Door lockset to operate mechanically until connection to access control system is provided.

Set: 17.1

Doors: 196A

1	Swing Clear Continuous Hinge	HG326 HT MB AS	630	MR
---	------------------------------	----------------	-----	----



1 Behavioral Lock (wave)	SG 8245 BHW x Modification	US32D SA
1 Friction Ball Catch	911RC	US26D RO
1 Armor Plate	K1050 35" x 2" LDW 4BE CSK	US32D RO
1 WallStop	400 TORX	US26D RO
1 Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630 MR

## Notes:

- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- Free egress is allowed at all times.

Set: 17.2

Doors: 196

1 Swing Clear Continuous Hinge (ept)	HG326 HT EL-EPT-SC AS	630 MR
1 Behavioral Lock (wave)	RX SG 72 8271-24V BHW	US32D SA
1 Surface Closer (pull side)	2800ST TBGN	689 NO
1 Friction Ball Catch	911RC	US26D RO
1 Armor Plate	K1050 35" x 2" LDW 4BE CSK	US32D RO
1 WallStop	400 TORX	US26D RO
1 Edge Guard (208M-CO)	EG308 86M AS x Door Ht	630 MR
1 Electric Power Transfer	EL-CEPT	SU
1 Door Wire Harness	QC-C*** (Length / Type as Required)	MK
1 Frame Wire Harness	QC-C1500P	MK
1 Card Reader, Accessories, wiring	by Security System Supplier	BLK HD
1 Position Switch	DPS-M / W-GY (as required)	SU
1 Power Supply	BPS (size & type as required)	SU
1 Wiring Diagram	WD-SYSPK (w/ point to point drawings)	SA

## Notes:

- \* Closer to be installed on pull side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Coordinate sizes of hinge guards, edge guards and kick plate for no more than 1/4" spacing between protection items.
- \* Install indicated electrified components for future connection to access control system.
- \* Door lockset to operate mechanically until connection to access control system is provided.

Set: 18.0

Doors: 110A, 110C

1 Continuous Hinge	HG305 HT AS	630 MR
1 Behavioral Lock (wave)	8215 BHW	US32D SA
1 Wall Stop-Convex	(L02101-Cast)400 TORX	US26D RO
1 Coat Hook (L03121)	RM828	US32D RO

Set: 18.1

Doors: 154

1	Continuous Hinge (swing clear, ept)	HG326 7'0 HT EL-EPT-SC AS	630	MR
1	Behavioral Lock (wave)	RX SG 72 8271-24V BHW		US32D SA
1	Wall Stop-Convex	(L02101-Cast)400 TORX		US26D RO
1	Core	1CP61 (Verify Keyway)	626	BE
1	Surface Closer (push side)	PS2800ST TBGN	689	NO
1	Armor Plate	K1050 35" x 2" LDW 4BE CSK		US32D RO
1	Wall Stop-Convex (L02191-Cast)	400 TORX		US26D RO
1	Door Seal (ROE154)	P88 BL (head & jambs)		PE
1	Edge Guard	EG308 86M AS x Door Ht	630	MR
1	Door Wire Harness	QC-C*** (Length / Type as Required)		MK
1	Frame Wire Harness	QC-C1500P		MK
1	Position Switch	DPS-M / W-GY (as required)		SU
1	Coat Hook (L03121)	RM828		US32D RO

## Notes:

- \* Provide security fasteners for all hardware items.
- \* Coordinate supply and installation of electrified and access control components.
- \* Coordinate sizes of hinge guards, edge guards and armor plate for no more than 1/4" spacing between protection items.
- \* Install indicated electrified components for future connection to access control system.
- \* Door lockset to operate mechanically until connection to access control system is provided.

Set: 19.0

Doors: 154A

1	Continuous Hinge	HG305 HT AS	630	MR
1	Behavioral Lock (wave)	8215 BHW		US32D SA
1	Surface Closer	PS2800ST TBGN	689	NO
1	Kick Plate (J102)	K1050 10" x 2" LDW 4BE CSK		US32D RO
1	Wall Stop	400 TORX		US26D RO

## Notes:

- \* Provide maximum delay on closer operation.

Set: 20.0

Doors: 162

3	Hinge (heavy weight)	H T4A3786 4-1/2" x 4-1/2"		US26D MK
1	Passage Set	8215 BHW		US26D SA
1	Surface Closer	PS2800ST TBGN	689	NO
1	Kick Plate (J102)	K1050 10" x 2" LDW 4BE CSK		US32D RO
1	Concealed Overhead Stop	1-X36	630	RF

## Notes:

- \* Provide maximum delay on closer operation.

Set: 21.0

Doors: 110B, 110D

1	Continuous Hinge	HG305 HT AS	630	MR
1	Behavioral Lock (wave)	8215 BHW		US32D SA
1	Surface Overhead Stop	9-X36	630	RF

1 Coat Hook (L03121) RM828 US32D RO

Set: 22.0

Doors: 154B

1 Continuous Hinge FM300 HT MB x Torx Screws 630 MR  
 1 Behavioral Lock (wave) SG 8245 BHW x Mod-thumbturns on  
 (F12-MOD) both sides x Security Fasteners US32D SA  
 1 Kick Plate (J102) K1050 10" x 2" LDW 4BE CSK US32D RO  
 1 Wall Stop-Convex (L02101-Cast)400 TORX US26D RO

Notes:

- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Modify lock function to have thumbturns on both sides.

Set: 23.0

Doors: 162A

3 Hinge (heavy weight) H T4A3786 4-1/2" x 4-1/2" US26D MK  
 1 Privacy Set (F22) SG 49 8265 LNL US26D SA  
 1 Surface Closer (push side) PS2800ST TBGN 689 NO  
 1 Kick Plate (J102) K1050 10" x 2" LDW 4BE CSK US32D RO  
 1 Surface Overhead Stop 9-X36 630 RF

Set: 24.0

Doors: 112B, 113A, 113C, 164

1 Double Acting Hinge DSHP01C-84 PE  
 1 Behavioral Lock(wave) (F26)SG 72 8267 BHW (w/ indicator) US32D SA  
 1 Core 1CP61 (verify core) 626 BE  
 1 Concealed Closer (double acting) MW806 90N x security fasteners 626 RF  
 1 Kick Plate (J102) K1050 10" x 2" LDW 4BE CSK US32D RO  
 1 Mop Plate (J103) K1050 6" x 1" LDW 4BE CSK US32D RO  
 1 Wall Stop-Convex (L02101-Cast)400 TORX US26D RO  
 1 Emergency Stop ERS84C x Ht x keyed latch PE

Notes:

- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.

Set: 25.0

Doors: 173

1 Continuous Hinge (swing clear, ept) HG326 HT EL-EPT-SC AS 630 MR  
 1 Behavioral Lock (wave) SG 72 8271-24V BHW US32D SA  
 1 Core 1CP61 (verify core) 626 BE  
 1 Electromechanical  
 Closer w/ Sensor 711xSZ 24VDC x Door Size 689 NO  
 1 Armor Plate K1050 35" x 2" LDW 4BE CSK US32D RO  
 1 Concealed Overhead Stop 1-X36 630 RF  
 1 Surface Overhead Stop 9-X36 630 RF  
 1 Edge Guard (208M-CO) EG308 86M AS x Door Ht 630 MR  
 1 Card Reader,  
 Accessories, wiring by Security System Supplier BLK HD  
 1 Door Wire Harness QC-C\*\*\* (Length / Type as Required) MK  
 1 Frame Wire Harness QC-C1500P MK

1	Position Switch	DPS-M / W-GY (as required)	SU
1	Power Supply	BPS (size & type as required)	SU
1	Wiring Diagram	WD-SYSPK (w/ point to point drawings)	SA

## Notes:

- \* Closer to be installed on pull side.
- \* Gasket to be perforated to reduce linear strength.
- \* Provide security fasteners for all hardware items.
- \* Tie electromechanical closer with Motion Sensor to Fire Alarm Control panel for release in fire alarm activation.
- \* Adjust sensor area and timing per owner's direction.
- \* Coordinate supply, installation and connection of electrified and access control components.
- \* Door contacts monitor the position of the doors and reports status to the security system.
- \* Coordinate sizes of hinge guards, edge guards and kick plate for no more than 1/4" spacing between protection items.
- \* Install indicated electrified components (other than electrified closer) for future connection to access control system.
- \* Door lockset to operate mechanically until connection to access control system is provided.

Set: 26.0

Doors: 182A, 183A, 184A, 185A, 187A, 188A, 190A, 191A, 193A, 194A, 195A

1	Sliding Door Track	9101 Track length as needed	HA
3	Sliding Door Hanger	9105 4-wheel	HA
2	Sliding Door Floor Guide	9115	HA
2	Sliding Door Stop	at each end	HA
2	Flush Pull	D89	US32D RO
1	Door Seal Gasketing	head and jambs	PE

## Notes:

- \* Mount stop in track to maintain access to door pulls.
- \* Track is mounted in 2 pieces to allow for bed rail to pass through.
- \* Mount extra roller hanger to allow door to span gap.
- \* Maintain 3'-6" minimum clear opening width.

Set: 27.0

Doors: 152B, 173A

1	Coiling Door	All hardware by door supplier	OT
---	--------------	-------------------------------	----

END OF SECTION 087100