

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

BPA NO.

1. CONTRACT ID CODE

PAGE
1OF PAGES
22. AMENDMENT/MODIFICATION NUMBER
000023. EFFECTIVE DATE
05-02-2018

4. REQUISITION/PURCHASE REQ. NUMBER

5. PROJECT NUMBER (if applicable)
438-15-2016. ISSUED BY
CODE PCAC
Jason Schultz
Department of Veterans Affairs
Program Contracting Activity Central
6150 Oak Tree Blvd, Suite 300
Independence OH 441317. ADMINISTERED BY (If other than Item 6)
CODE PCAC
Department of Veterans Affairs
Program Contracting Activity Central
6150 Oak Tree Blvd, Suite 300
Independence OH 441318. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code)
To all Offerors/Bidders(X) 9A. AMENDMENT OF SOLICITATION NUMBER
36E77618R0053X 9B. DATED (SEE ITEM 11)
05-02-2018

10A. MODIFICATION OF CONTRACT/ORDER NUMBER

10B. DATED (SEE ITEM 13)

CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

- (a) By completing Items 8 and 15, and returning
- 1
- copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified. May 11, 2018 2:00 PM ET

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return 1 (One) copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this ammendment is to provide the following:

1. Provide a copy of Sioux Falls Technical Questions. See Attached.
2. Provide a copy of Addendum 2. See attached
3. Period of Performance has been modified from 365 calendar days to 485 calendar days after Notice to Proceed

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
Donald A. Marsh III PCAC15L3-1697
Contracting Officer15B. CONTRACTOR/OFFEROR
(Signature of person authorized to sign)

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA
BY (Signature of Contracting Officer)

16C. DATE SIGNED

See attached document: Sioux Falls Technical Questions Document.

See attached document: Renovation 5th Floor Surgery - Addendum No 2.

RFP 36E77618R0053 RENOVATE 5TH FLOOR SURGERY TECHNICAL QUESTIONS AND VA RESPONSE TRACKING SHEET

ITEM NO.	DATE QUESTION RECEIVED	DATE QUESTION ANSWERED	QUESTION	GOVERNMENT RESPONSE
1.	4.21.18	5.1.18	In Spec Section 01 33 24 Electronic Submittal Procedures, it specifies that the Contractor shall provide Submittal Exchange Services. Should this be considered a sole source item? The package does not currently have a sole source J&A for this item, will the VA be providing one?	Spec Section 01 33 24 will be rewritten by the Architect/Engineer indicating that the SFVAHCS will be providing the services of Submittal Exchange® for this project. The rewrite will be issued as part of Amendment 00002.
2.	4.26.18	5.1.18	The solicitation refers to the contractor being responsible for Submittal Exchange. It was our understanding that VISN 23 had a contract for this service and that it would be available to the contractor at no expense. Please clarify that the contractor will be responsible for the costs associated.	Spec Section 01 33 24 will be rewritten by the Architect/Engineer indicating that the SFVAHCS will be providing the services of Submittal Exchange® for this project. The rewrite will be issued as part of Amendment 00002.
3.	4.26.18	5.1.18	At the pre-bid meeting, it was stated, questioned and repeated, that ALL on site project personnel will need to be OSHA 30. In our experience, the general contractor's superintendent (as designated competent person on site) is the only person required to be OSHA 30; all other on-site personnel are to be OSHA 10. Over the course of this project, we anticipate 80 – 100 tradespeople working on site in some capacity. If we require each of them to have 30 hours of training at a typical labor rate with fringe of \$65.00/hour, the cost to train that person will be \$1950.00 in labor and \$100.00 - \$200.00 for the course itself. Multiplied by 80 to 100 tradespeople, the cost for training will easily approach \$200,000.00. Because this is not a standard industry requirement, the training is not a cost we can expect trades contractors to absorb and as a result it will be carried in their proposals. Please confirm that all tradespeople on site will be required to be OSHA 30.	ALL TRADESPEOPLE ON SITE WILL NOT BE REQUIRED TO HAVE OSHA 30 TRAINING. Safety training requirements are outlined in Spec Section 01 35 26, SAFETY REQUIREMENTS. A Competent Person (CP) can have collateral duties, but <u>each</u> trade shall be covered by a CP, which can be the prime Contractor's SSHO or CP, as long as they are trained in the specialized CP role (i.e. Asbestos, Electrical, Cranes & Derricks, Demolition, Fall Protection, Fire Safety/Life Safety, Ladder, Rigging, Scaffolds, and Trenches/Excavations).
4.	4.26.18	5.1.18	Has the work area for this project been surveyed for lead containing materials?	No.
5.	4.26.18	5.1.18	The auditorium walls will need to be patched where the existing speaker boxes will be demolished. The contractor will have to paint the patched in area. Please advise on the extent of painting required given the large surface area of the wall.	The Architect/Engineer will revise Keynote 6 on plan sheet 5-AI101 to say "Infill opening behind speaker grill with 2-hour shaft wall as indicated on Detail 4/AI501, WALL LADDER DETAIL. Existing speaker grill to remain on auditorium side of wall." This revision will be part of Amendment 00002.

ITEM NO.	DATE QUESTION RECEIVED	DATE QUESTION ANSWERED	QUESTION	GOVERNMENT RESPONSE
6.	4.26.18	5.1.18	Can we assume that there will be no noise restriction during 5th floor demolition? If there are restrictions, please advise.	The Contractor will be required to follow Spec Section 01 57 19, Part 1, Section 1.5, Paragraph F. Reduction of Noise. Because areas below the construction level on 5th Floor are occupied during the day, the Contractor will be required to “minimize noise using every action possible.”
7.	4.26.18	5.1.18	Given the complexity of this project, several trades have asked for an extended construction duration. Can the project duration be extended by another 120 calendar days as requested at the pre-bid site walk?	As requested by several of the contractors during the Site Visit, the project duration will be revised from 365 days to 485 days after the Notice to Proceed. The project duration will be revised as part of Amendment 00002.
8.	4.26.18	5.1.18	We would like to use a small scissors lift in the space. Can the VA provide information on the maximum load per sf that the existing floor can support or has the VA had experience with using lifts on upper floors of the building?	The VA does not have information on the maximum load that the existing floor can support, but the VA has previously had small scissors lifts on upper floors of the facility. The contractor will be required to contact the SFVAHCS’s elevator maintenance contractor, Kone Corporation, to determine the carrying capacity of elevator “D”, the elevator carrying the lift up and especially down the elevator. Point of Contact at Kone is Chuck Beard (605) 336-1578.
9.	4.26.18	5.1.18	Where will the laydown area be located for this project?	The laydown area for the project will be the area north of Building 1 (Main Hospital) near the connecting corridor between Building 5 and 1. In lieu of hauling debris down the elevator, a debris chute shall be used to dispose of construction debris from 5th Floor down to a dumpster on the ground,
10.	4.26.18	5.1.18	There is a considerable amount of VA equipment in the project space. Will the VA remove that equipment or is that the contractor’s responsibility? If it is the contractor’s responsibility, where would you like us to put it?	The SFVAHCS will remove all materials and equipment within the construction area prior to the start of the construction project by the Contractor.

ITEM NO.	DATE QUESTION RECEIVED	DATE QUESTION ANSWERED	QUESTION	GOVERNMENT RESPONSE
11.	4.26.18	5.1.18	Do we need to provide a porta-john for tradespeople or can they use VA restrooms?	The Contractor shall provide temporary sanitary toilet accommodations for their workers as per the General Requirements Section 01 00 00, page 17.
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Addendum No. 2
Date: 5-01-2018

Project: VA Healthcare System, Sioux Falls, SD.
Renovate 5th Floor Surgery
438-15-201

The following changes are incorporated by modification into the Contract Documents and supersede all portions of the documents with which they may conflict.

Project Manual

Item No. 1: Section 01 3324 – Electronic Submittal Procedures

- A. Replace this section in its entirety with attached Section 01 3324 – Electronic Submittal Procedures.

Item No. 2: Section 08 7100 Door Hardware

- A. Replace this section in its entirety with attached Section 08 7100 – Door Hardware.

Drawings

Item No. 1: Sheet 5-AI101 – Fourth Floor Plans

- A. Revise Keynote #6 to read as follows: Infill opening behind speaker grill with 2-hour shaft wall as indicated on section 4/AI501. Existing speaker grill to remain on auditorium side of wall.

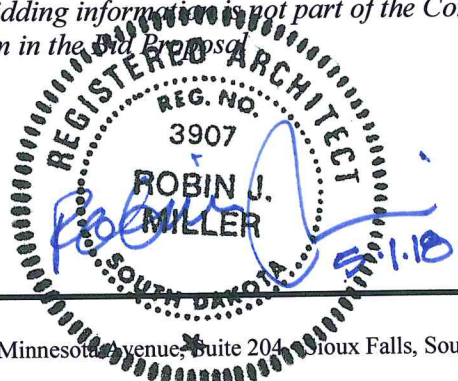
Item No. 2: Sheet 5-AI102 – Fifth Floor Remodel Plan

- A. In Waiting Room 501 the two existing windows on the south side of the room shall be tagged BB.

Item No. 3: Sheet 5-AI502 – Door Schedule, Door and Window Frames and Details

- A. Door Frame Types C and E shall not have a sidelight. Revise Door Frame Types C and E as shown on attached Supplemental Drawing ASD-1.
- B. In the Door Schedule remove the note regarding a 10 inch sidelight from Door 518 and Door 519.
- C. In the Door Schedule remove the note regarding a 14 inch sidelight from Doors 502, 504, 505, 506, 507, 508, 509, 525, 526, 528, 529, 530, 531, 532, 533, 535, 536, 537, 538, 539, 540, 541, and 542.
- D. In the Door Schedule add a note for Card Reader with Automatic Door Latch to Door 508 and Door 536.
- E. In the Door Schedule add a note for Automatic Door Opener to Door 511 and Door 512.
- F. In the Door Schedule change Door 525 to say 3'-6" width in lieu of 3'-0".
- G. In the Door Schedule change the Hardware Group for Door 500E to Hardware Group 15B.
- H. In the Door Schedule change the Hardware Group for Door 507 to Hardware Group 01B.
- I. In the Door Schedule change the Hardware Group for Door 521 to Hardware Group 14.

Bidding information may also be provided in this addendum to modify, supplement, or supersede bidding conditions. Bidding information is not part of the Contract Documents. Bidders shall acknowledge the inclusion of this addendum in the bid proposal.



Cc: Owner Sent
Addendum File Sent
 Sent

**SECTION 01 33 24
ELECTRONIC SUBMITTAL PROCEDURES**

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section specifies requirements for provision and use of an electronic, web-based service for submittal and tracking of construction submittals for the Project.

1.2 REFERENCED DOCUMENTS

- A. Additional submittal requirements: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

1.3 SUMMARY:

- A. The intent of electronic submittals is to expedite the construction process by reducing paperwork, improving information flow, and decreasing turnaround time.
- B. Shop drawing and product data submittals shall be transmitted to Architect in electronic (PDF) format using a web-based service designed specifically for transmitting and tracking submittals between construction team members.
- C. The electronic submittal process is not intended for color samples, color charts, or physical material samples.

1.4 GENERAL DESCRIPTION OF PROCEDURES:

- A. Submittal Preparation - Contractor may use any or all of the following options:
 - 1. Subcontractors and Suppliers provide electronic (PDF) submittals to Contractor via the submittal exchange website.
 - 2. Subcontractors and Suppliers provide paper submittals to General Contractor who electronically scans and converts to PDF format.
 - 3. Subcontractors and Suppliers provide paper submittals to Scanning Service which electronically scans and converts to PDF format.
- B. Contractor shall review, comment, and apply electronic stamp certifying that the submittal (as noted) complies with the requirements of the Contract Documents including verification of manufacturer / product, dimensions and coordination of information with other parts of the work.
- C. Contractor shall transmit each submittal to Architect and Owner (simultaneously) using the web-based submittal exchange service.
- D. Architect / Engineer review comments will be made available on web-based submittal exchange service. Contractor shall receive email notice of completed review.
- E. Distribution of reviewed submittals to subcontractors and suppliers is the responsibility of the Contractor.

1.5 REQUIREMENTS AND RESPONSIBILITIES

- A. Submittal Exchange Service will be provided by the VA:
1. The following submittal exchange services will be arranged and paid for by the VA for this project:
 - a. Submittal Exchange: 1-800-714-0024; www.submittalexchange.com.
 2. Web-based tracking and approval system.
 3. Automated email notice for new submittals and reminders for submittals approaching the review deadline.
 4. Tracking and exchange of ITC/RFI/CO's and other similar document as well as product and equipment submittals.
 5. Means for tracking of the status such documents including whether they have been approved and released by the Owner.
 6. Organized storage of submittals that is accessible for review by the designated construction team members at any time.
 7. Submit a complete set of submittal on CD to the Owner at the end of the Project. Include all submittals including product submittals, shop drawings, ITC/RFI/CO's and other similar submittals.
- B. Contractor responsibilities: (All costs associated with these additional items shall be incurred by the contractor)
1. Training in the use of the service by the contractors' team members shall be at the option of the Contractor and, if chosen, shall be paid by the Contractor
 2. Contractor shall have or obtain required hardware and software: Internet Service and Equipment Requirements:
 - a. Email address and Internet access at Contractor's main office.
 - b. Adobe Acrobat (www.adobe.com), Bluebeam PDF Revu (www.bluebeam.com), or other similar PDF review software for applying electronic stamps and comments.
 3. Contractor shall prepare or have prepared all required submittals in the PDF format required.
 - a. PDF files must be readable. As a general rule, a resolution of 300 dpi should be used.
 - b. If the Architect can download more readable product data directly from the manufacturer's website than was submitted by the Contractor, the Architect shall reserve the right to reject the submittal.
 4. Other responsibilities for submittals shall be as described in Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
 - a. Color samples, color charts, or physical material samples shall be submitted as described in Section 01 33 23.

Renovate 5th Floor Surgery
Project No.: 438-15-201
Department of Veterans Affairs
VA Healthcare System
Sioux Falls, South Dakota

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**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;
- C. Painting: Section 09 91 00, PAINTING.
- D. Card Readers: Section 28 13 11, PHYSICAL ACCESS CONTROL SYSTEMS.
- E. Electrical: Division 26, ELECTRICAL.
- F. 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. Cylindrical 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, latch sets, 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 Contracting Officers Representative (COR) for reference purposes. Tag shall identify items by Project Specification number and manufacturer's catalog number. These items shall remain on file in COR's office until all other similar items have been installed in project, at which time the COR 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.

1.9 INSTRUCTIONS

- A. Hardware Set Symbols on Drawings: Except for protective plates, door stops, mutes, thresholds and the like specified herein, hardware requirements for each door are indicated on drawings by symbols. Symbols for hardware sets consist of letters (e.g., "HW") followed by a number. Each number designates a set of hardware items applicable to a door type.
- B. Keying: All cylinders shall be keyed into existing Falcon D-keyway Great Grand Master Key System. Provide removable core cylinders that are removable only with a special key without disassembly of knob or lockset. Cylinders shall be 6 pin "D" keyway uncombined standard cores. Keying information shall be furnished at a later date by the COR.

1.10 APPLICABLE PUBLICATIONS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only. In text, hardware items are referred to by series, types, etc., listed in such specifications and standards, except as otherwise specified.
- B. American Society for Testing and Materials (ASTM):
 - E2180-07.....Standard Test Method for Determining the Activity of Incorporated Antimicrobial Agent(s) In Polymeric or Hydrophobic Materials
- C. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA):
 - A156.1-06.....Butts and Hinges
 - A156.2-03.....Bored and Pre-assembled Locks and Latches

- A156.3-08..... Exit Devices, Coordinators, and Auto Flush Bolts
- A156.4-08..... Door Controls (Closers)
- A156.5-14..... Cylinders and Input Devices for Locks.
- A156.6-05..... Architectural Door Trim
- A156.8-05..... Door Controls-Overhead Stops and Holders
- A156.11-14..... Cabinet Locks
- A156.12-05 Interconnected Locks and Latches
- A156.14-07 Sliding and Folding Door Hardware
- 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):
 - 80-10 Fire Doors and Other Opening Protectives
 - 101-09 Life Safety Code
- E. Underwriters Laboratories, Inc. (UL):
 - Building Materials Directory (2008)

PART 2 - PRODUCTS

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. 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 1210 mm (4 feet) to 2260 mm (7 feet 5 inches) high: 3 hinges minimum.
 2. Doors greater than 2260 mm (7 feet 5 inches) high: 4 hinges.
 3. 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.
 4. 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).
 5. 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).
 6. Provide heavy-weight hinges where specified.
 7. 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.
- B. All closers shall be adjusted such that the opening force shall not exceed 5 pounds and closing time is not less than 5 seconds from 90 degree open position.

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 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).

2.6 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.

2.7 FLOOR DOOR HOLDERS

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

2.8 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 six pins. Cylinders for all locksets shall be removable core type. Cylinders shall be furnished with construction removable cores and construction master keys. Cylinder shall be removable by special key. Construct all cores so that they will be interchangeable into the core housings of all rim locks, cylindrical locks, and any other type lock included in the Falcon Type D 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. The COR will provide a 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. 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 privacy lock ANSI 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. 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.

2.9 PUSH-BUTTON COMBINATION LOCKS

- A. ANSI/BHMA A156.5, Grade 1. Self-Powering pushbutton entry with No-Pump technology.
- B. Construction: Heavy duty cylindrical lock housing conforming to ANSI/BHMA A156.25, Grade 1. Lever handles and operating components in compliance with the UFAS and the ADA Accessibility Guidelines. Match lever handles of locks and latchsets on adjacent doors.

- C. Special Features: Key override to permit a master keyed security system and a pushbutton security code activated passage feature to allow access without using the entry code.
- D. Basis of Design Push-Button Combination Lock: KABA PowerPlex 2000 Series with “No-Pump” technology: Part # P2031LLB626.

2.9 CARD READERS

Provide and install card readers where indicated. Integrate card readers with other specified systems and systems that are in place. Refer to Section 28 13 00, Physical Access Control Systems, for card reader requirements.

2.10 ELECTRIC STRIKES

- A. ANSI/ BHMA A156.31 Grade 1.
- B. General: Use fail-secure electric strikes at fire-rated doors.

2.11 KEYS

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

Locks/Keys	Quantity
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

2.12 ARMOR PLATES, KICK PLATES, MOP PLATES AND DOOR EDGING

- A. Conform to ANSI Standard A156.6.
- B. Provide protective plates and door edging as specified below:
 - 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.

2.13 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.

2.14 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).

2.15 DOOR PULLS WITH PLATES

- A. Conform to ANSI A156.6. Pull Type J401, 152 mm (6 inches) high by 19 mm (3/4 inches) diameter with plate Type J302, 90 mm by 350 mm (3-1/2 inches by 14 inches), unless otherwise specified. Provide pull with projection of 70 mm (2 3/4 inches) and a clearance of 51 mm (2 inches). Cut plates of door pull plate for cylinders, or turn pieces where required.

2.16 PUSH PLATES

- A. Conform to ANSI A156.6. Metal, Type J302, 200 mm (8 inches) wide by 350 mm (14 inches) high. Provide metal Type J302 plates 100 mm (4 inches wide by 350 mm (14 inches) high) where push plates are specified for doors with stiles less than 200 mm (8 inches) wide. Cut plates for cylinders, and turn pieces where required.

2.17 COMBINATION PUSH AND PULL PLATES

- A. Conform to ANSI 156.6. Type J303, stainless steel 3 mm (1/8 inch) thick, 80 mm (3-1/3 inches) wide by 800 mm (16 inches) high), top and bottom edges shall be rounded. Secure plates to wood doors with 38 mm (1-1/2 inch) long No. 12 wood screws. Cut plates for turn pieces, and cylinders where required. Pull shall be mounted down.

2.18 COORDINATORS

- A. Conform to ANSI A156.16. Coordinators, when specified for fire doors, shall comply with Underwriters Laboratories, Inc., requirements for fire door hardware. Coordinator may be omitted on exterior pairs of doors where either door will close independently regardless of the position of the other door. Coordinator may be omitted on interior pairs of non-labeled open where open back strike is used. Open back strike shall not be used on labeled doors. Paint coordinators to match door frames, unless coordinators are plated. Provide bar type coordinators, except where gravity coordinators are required at acoustic pairs. For bar type coordinators, provide filler bars for full width and, as required, brackets for push-side surface mounted closers, overhead stops, and vertical rod panic strikes.

2.19 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 1/4-20 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.

2.20 AUTOMATIC DOOR BOTTOM SEAL AND RUBBER GASKET FOR LIGHT PROOF OR SOUND CONTROL DOORS

- A. Conform to ANSI A156.22. Provide mortise or under-door type, except where not practical. For mortise automatic door bottoms, provide type specific for door construction (wood or metal).

2.21 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. 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.

2.22 FINISHES

- A. 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. //
- E. 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.

2.23 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 existing buildings locate hardware on doors at heights to match existing hardware. The Contractor shall visit the site, verify location of existing hardware and submit locations to VA Contracting Officers Representative (COR) for approval.

B. Typical 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. 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 COR. 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: 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 raw plugs and adhesives are not permitted. All fastenings exposed to weather shall be of nonferrous metal.
- G. After locks have been installed; coordinate with the Contracting Officers Representative (COR) for installation of final cores.

3.3 FINAL INSPECTION

- A. Installer to provide letter to VA Contracting Officers Representative (COR) 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 Contracting Officers Representative (COR) and VA Locksmith.

3.5 HARDWARE SETS

- A. Following sets of hardware correspond to hardware symbols shown on drawings. Only those hardware sets that are shown on drawings will be required. Disregard hardware sets listed in specifications but not shown on drawings.
- B. Hardware Consultant working on a project will be responsible for providing additional information regarding these hardware sets. The numbers shown in the following sets come from BHMA standards.

ELECTRIC HARDWARE ABBREVIATIONS LEGEND:	
ADO	= Automatic Door Operator
EMCH	= Electro-Mechanical Closer-Holder
MHO	= Magnetic Hold-Open (wall- or floor-mounted)

HARDWARE GROUP NO. 01

DOOR NUMBER: 510A 510C

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
1 EA	CONT. HINGE	
1 EA	PUSH PLATE	J302
1 EA	PULL PLATE	J401 X J302
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	KICK PLATE	J102
1 EA	MOP PLATE	J103
1 EA	FLOOR STOP	L02121 X 3 FASTENERS
3 EA	SILENCER	L03011

HARDWARE GROUP NO. 01B

DOOR NUMBER: 507

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
1 EA	CONT. HINGE	
1 EA	PUSH BUTTON LOCK	KABA - P2031LLB626
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	KICK PLATE	J102
1 EA	MOP PLATE	J103
1 EA	FLOOR STOP	L02121 X 3 FASTENERS
3 EA	SILENCER	L03011

HARDWARE GROUP NO. 02

DOOR NUMBER: 510B 510D

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
EA	HINGE	QUANTITY AND TYPE AS REQUIRED
1 EA	KEY PRIVACY INDICATOR LOCK	F76 X OCCUPANCY INDICATOR
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	KICK PLATE	J102
1 EA	MOP PLATE	J103
		AT INSWING DOORS
1 EA	FLOOR STOP	L02121 X 3 FASTENERS
1 SET	SEALS	R0Y154
1 EA	THRESHOLD	BY OTHERS

HARDWARE GROUP NO. 03

DOOR NUMBER: 503 544 545

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
EA	HINGE	QUANTITY AND TYPE AS REQUIRED
1 EA	KEY PRIVACY INDICATOR LOCK	F76 X OCCUPANCY INDICATOR
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	KICK PLATE	J102
1 EA	MOP PLATE	J103
1 EA	FLOOR STOP	L02121 X 3 FASTENERS
2 SET	SEALS	R0Y154
1 EA	AUTO DOOR BOTTOM	R0Y346 - HEAVY DUTY
1 EA	THRESHOLD	BY OTHERS

HARDWARE GROUP NO. 04

DOOR NUMBER: 536

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
EA	HINGE	QUANTITY AND TYPE AS REQUIRED
1 EA	ELECTRIFIED LOCK	X 4-THRUWIRE TRANSFER
1 EA	SURFACE CLOSER	F109 (E01-REX, E06) 24VDC
1 EA	KICK PLATE	C02011/C02021
1 EA	FLOOR STOP	J102
1 SET	SEALS	L02121 X 3 FASTENERS
1 EA	CARD READER	R0Y154
1 EA	POWER SUPPLY	BY OTHERS (LEADING FROM CORRIDOR 500C INTO COMPUTER 536) REGULATED, FILTERED, 24VDC, AMPERAGE AS REQUIRED

HARDWARE GROUP NO. 05

DOOR NUMBER: 522

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
1 EA	CONT. HINGE	X INTERGRAL HINGE GUARD CHANNEL
1 EA	PUSH BUTTON LOCK	X ADJUSTA-SCREWS
1 EA	SURFACE CLOSER	KABA - P2031LLB626
1 EA	ARMOR PLATE	C02011/C02021
1 EA	DOOR EDGE GUARD	J101 X 1.275 MM THICKNESS
1 EA	WALL STOP	J208M/J211 (VERIFY), CUT: HARDWARE
1 EA	FLOOR STOP	L02101 CONVEX
1 SET	SEALS	AT INSWING DOORS
		L02121 X 3 FASTENERS
		AT OUTSWING DOORS
		R0Y154

HARDWARE GROUP NO. 06

DOOR NUMBER: 501

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
EA	HINGE	QUANTITY AND TYPE AS REQUIRED
1 EA	ENTRANCE LOCK	F109
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	KICK PLATE	J102
1 EA	FIRE/LIFE WALL MAG	C00011 TRI-VOLTAGE
1 SET	SEALS	R0Y154

HARDWARE GROUP NO. 07

DOOR NUMBER: 508

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
EA	HINGE	QUANTITY AND TYPE AS REQUIRED
1 EA	ELECTRIFIED LOCK	X 4-THRUWIRE TRANSFER
1 EA	SURFACE CLOSER	F109 (E01-REX, E06) 24VDC
1 EA	KICK PLATE	C02011/C02021
1 EA	FLOOR STOP	J102
2 SET	SEALS	L02121 X 3 FASTENERS
1 EA	AUTO DOOR BOTTOM	R0Y154
1 EA	THRESHOLD	R0Y346 - HEAVY DUTY
1 EA	CARD READER	J32300 X 57MM WIDTH
		BY OTHERS (LEADING FROM CORRIDOR
		501A INTO CONFERENCE 508)
1 EA	POWER SUPPLY	REGULATED, FILTERED, 24VDC,
		AMPERAGE AS REQUIRED

HARDWARE GROUP NO. 08

DOOR NUMBER: 524 543

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
EA	HINGE	QUANTITY AND TYPE AS REQUIRED
1 EA	STOREROOM LOCK	F86
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	KICK PLATE	J102
1 EA	DOOR EDGE GUARD	J208M/J211 (VERIFY), CUT: HARDWARE
1 EA	WALL STOP	L02101 CONVEX
		AT OUTSWING DOORS
1 EA	FLOOR STOP	L02121 X 3 FASTENERS
		AT INSWING DOORS
1 SET	SEALS	R0Y154

HARDWARE GROUP NO. 09

DOOR NUMBER: 515

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
1 EA	CONT. HINGE	X INTEGRAL HINGE GUARD CHANNEL X ADJUSTA-SCREWS F86
1 EA	STOREROOM LOCK	C02011/C02021
1 EA	SURFACE CLOSER	J101 X 3.175 MM THICKNESS
1 EA	ARMOR PLATE	J208M/J211 (VERIFY), CUT: HARDWARE
1 EA	DOOR EDGE GUARD	L02121 X 3 FASTENERS
1 EA	FLOOR STOP	R0Y154
1 SET	SEALS	

HARDWARE GROUP NO. 10

DOOR NUMBER: 523

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
2 EA	CONT. HINGE	X INTEGRAL HINGE GUARD CHANNEL X ADJUSTA-SCREWS
2 SET	AUTO FLUSH BOLT	TYPE 25 LESS BOTTOM BOLT
1 EA	OFFICE LOCK	F82
1 EA	COORDINATOR	TYPE 21A
2 EA	SURFACE CLOSER	C02011/C02021
2 EA	ARMOR PLATE	J101 X 3.175 MM THICKNESS
2 EA	DOOR EDGE GUARD	J208M/J211 (VERIFY), CUT: HARDWARE AT WOOD DOORS
2 EA	FLOOR STOP	L02121 X 3 FASTENERS
2 SET	SEALS	R0Y154
1 EA	ASTRAGAL	R0Y634 X ROY154 X THRU-BOLTS
2 EA	AUTO DOOR BOTTOM	R0Y346 - HEAVY DUTY
1 EA	THRESHOLD	J32300 X 57MM WIDTH

NOTE: INSTALL LOCK TRIM PROTECTOR BAR ON PUSH SIDE OF ACTIVE LEAF TO PROTECT LEVER TRIM.

HARDWARE GROUP NO. 11

DOOR NUMBER: 534

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
EA	HINGE	QUANTITY AND TYPE AS REQUIRED
1 SET	AUTO FLUSH BOLT	TYPE 25 LESS BOTTOM BOLT
1 EA	STOREROOM LOCK	F86
1 EA	COORDINATOR	TYPE 21A
2 EA	SURFACE CLOSER	C02011/C02021
2 EA	ARMOR PLATE	J101 X 3.175 MM THICKNESS
2 EA	FLOOR STOP	L02121 X 3 FASTENERS
1 SET	SEALS	R0Y154
1 EA	ASTRAGAL	R0Y634 X ROY154 X THRU-BOLTS

HARDWARE GROUP NO. 12

DOOR NUMBER: 510

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
2 EA	CONT. HINGE	X INTEGRAL HINGE GUARD CHANNEL X ADJUSTA-SCREWS X 8-THRUWIRE TRANSFER X IN-HINGE ACCESS PANEL TYPE AS REQUIRED
1 EA	CYLINDER	TYPE 7 OR 8 F75 (E04)
1 EA	FIRE EXIT HARDWARE	TYPE 7 OR 8 F109 LEVER (E04)
1 EA	FIRE EXIT HARDWARE	J102
2 EA	KICK PLATE	J208M/J211 (VERIFY), CUT: HARDWARE AT WOOD DOORS
2 EA	DOOR EDGE GUARD	L02121 X 3 FASTENERS
2 EA	FLOOR STOP	R0Y834
1 EA	MEETING STILE SEAL	R0Y154
2 SET	SEALS	R0Y346 - HEAVY DUTY BY OTHERS (ONE IN EACH DIRECTION OF TRAVEL)
2 EA	AUTO DOOR BOTTOM	6010
2 EA	CARD READER	697
2 EA	AUTO DOOR OPERATOR	DPS SERIES
2 EA	TOUCHLESS ACTUATOR SWITCH	XMS
2 EA	DOOR POSITION SWITCH	EEB2
1 EA	EXIT MOTION SENSOR	BY ACCESS CONTROL SYSTEM
1 EA	EMERGANCY EXIT BUTTON	BY EXIT DEVICE MANUFACTURER FOR E04 FUNCTION
1 EA	24/7 TIMER	
1 EA	POWER SUPPLY	

NOTE: POWER TRANSFERS SHARED BY ELECTRIC PANIC AND RE-ACTIVATION SENSOR WIRING (RE-ACTIVATION SENSORS PROVIDED BY SECTION 08 71 13).

AUTO DOOR OPERATORS AND CONTROLS BY SECTION 08 71 13.

HARDWARE GROUP NO. 13

DOOR NUMBER: 510F

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
EA	HINGE	QUANTITY AND TYPE AS REQUIRED
1 EA	PASSAGE SET	F75
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	KICK PLATE	J102
1 EA	WALL STOP	L02101 CONVEX
1 SET	SEALS	R0Y154

HARDWARE GROUP NO. 14

DOOR NUMBER: 527 521

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
EA	HINGE	QUANTITY AND TYPE AS REQUIRED
1 EA	STOREROOM LOCK	F86
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	KICK PLATE	J102
1 EA	WALL STOP	L02101 CONVEX
1 SET	SEALS	R0Y154

HARDWARE GROUP NO. 15

DOOR NUMBER: 500F

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
EA	HINGE	QUANTITY AND TYPE AS REQUIRED
1 EA	STOREROOM LOCK	F86
1 EA	SURFACE CLOSER	C02011/C02021 WITH STOP ARM
1 EA	KICK PLATE	J102
1 SET	SEALS	R0Y154

HARDWARE GROUP NO. 15B

DOOR NUMBER: 500E

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
EA	HINGE	QUANTITY AND TYPE AS REQUIRED
1 EA	PASSAGE	F75
1 EA	SURFACE CLOSER	C02011/C02021 WITH STOP ARM
1 EA	KICK PLATE	J102
1 SET	SEALS	R0Y154

HARDWARE GROUP NO. 16

DOOR NUMBER: 510E

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
EA	HINGE	QUANTITY AND TYPE AS REQUIRED
1 EA	ELECTRIFIED LOCK	X 4-THRUWIRE TRANSFER F109 (E01-REX, E06) 24VDC
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	KICK PLATE	J102
1 EA	WALL STOP	L02101 CONVEX
1 SET	SEALS	R0Y154
1 EA	CARD READER	BY OTHERS (LEADING FROM ENTRY LOBBY INTO CORRIDOR 510)
1 EA	POWER SUPPLY	REGULATED, FILTERED, 24VDC, AMPERAGE AS REQUIRED

HARDWARE GROUP NO. 17

DOOR NUMBER: 534B

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
EA	HINGE	QUANTITY AND TYPE AS REQUIRED
1 EA	FIRE EXIT HARDWARE	TYPE 1 F86
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	KICK PLATE	J102
1 EA	WALL STOP	L02101 CONVEX
1 SET	SEALS	R0Y154

HARDWARE GROUP NO. 18

DOOR NUMBER: 500C

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
2 EA	CONT. HINGE	
2 EA	FIRE EXIT HARDWARE	TYPE 7 OR 8 F75 (E04)
2 EA	SURFACE CLOSER	C02011/C02021
2 EA	KICK PLATE	J102
2 EA	FIRE/LIFE WALL MAG	C00011 TRI-VOLTAGE
1 EA	MEETING STILE SEAL	R0Y834
1 SET	SEALS	R0Y154
EA	N/C F/A CONTACT	BY F/A CONTRACTOR

HARDWARE GROUP NO. 19

DOOR NUMBER: 518 519

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
1 EA	CONT. HINGE	
1 EA	PASSAGE	F75
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	KICK PLATE	J102
1 EA	WALL STOP	L02101 CONVEX
2 SET	SEALS	R0Y154
1 EA	AUTO DOOR BOTTOM	R0Y346 - HEAVY DUTY
1 EA	THRESHOLD	J32300 X 57MM WIDTH

HARDWARE GROUP NO. 20

DOOR NUMBER: 502 505 506 525 528 529 530 531 532 533
 535 537 538 539 540 541 542

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
EA	HINGE	QUANTITY AND TYPE AS REQUIRED
1 EA	OFFICE LOCK	F082
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	KICK PLATE	J102
1 EA	FLOOR STOP	L02121 X 3 FASTENERS
1 SET	SEALS	R0Y154

HARDWARE GROUP NO. 21

DOOR NUMBER: 504 509 526

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
	EA HINGE	QUANTITY AND TYPE AS REQUIRED
1 EA	OFFICE LOCK	F82
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	KICK PLATE	J102
1 EA	FLOOR STOP	L02121 X 3 FASTENERS
2 SET	SEALS	R0Y154
1 EA	AUTO DOOR BOTTOM	R0Y346 - HEAVY DUTY
1 EA	THRESHOLD	J32300 X 57MM WIDTH
1 EA	DOOR VIEWER	LO3221 - 190 DEG. (VIEW INTO CORRIDOR OR ENTRY LOBBY)

HARDWARE GROUP NO. 22

DOOR NUMBER: 511 512

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
1 EA	CONT. HINGE	X INTEGRAL HINGE GUARD CHANNEL X ADJUSTA-SCREWS X 4-THRUWIRE TRANSFER X IN-HINGE ACCESS PANEL
1 EA	PUSH/PULL LATCH	F09 X PADDLES POINTING DOWN
1 EA	ELECTRIC STRIKE	E09321
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	ARMOR PLATE	J101 X 1.275 MM THICKNESS
1 EA	DOOR EDGE GUARD	J208M/J211 (VERIFY), CUT: HARDWARE
1 EA	FLOOR STOP	L02121 X 3 FASTENERS
1 SET	SEALS	R0Y154
2 EA	AUTO DOOR OPERATOR	6010
2 EA	TOUCHLESS ACTUATOR SWITCH	697
2 EA	DOOR POSITION SWITCH	DPS SERIES
1 EA	EXIT MOTION SENSOR	XMS
1 EA	EMERGENCY EXIT BUTTON	EEB2
1 EA	24/7 TIMER	BY ACCESS CONTROL SYSTEM
1 EA	POWER SUPPLY	REGULATED, FILTERED, 24VDC, AMPERAGE AS REQUIRED

NOTE: POWER TRANSFER PIVOT IS FOR RE-ACTIVATION SENSOR WIRING (RE-ACTIVATION SENSORS PROVIDED BY SECTION 08 71 13)

AUTOMATIC DOOR OPERATOR AND CONTROLS BY SECTION 08 71 13, AUTOMATIC DOOR OPERATORS.

HARDWARE GROUP NO. 23

DOOR NUMBER: 513 514 516 517

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
1 EA	CONT. HINGE	X INTEGRAL HINGE GUARD CHANNEL X ADJUSTA-SCREWS X 4-THRUWIRE TRANSFER X IN-HINGE ACCESS PANEL
1 EA	PUSH BUTTON LOCK	KABA - P2031LLB626
1 EA	SURFACE CLOSER	C02011/C02021
1 EA	ARMOR PLATE	J101 X 1.275 MM THICKNESS
1 EA	DOOR EDGE GUARD	J208M/J211 (VERIFY), CUT: HARDWARE
SET	SEALS	R0Y154
1 EA	AUTO DOOR BOTTOM	R0Y346 - HEAVY DUTY
1 EA	THRESHOLD	J32300 X 57MM WIDTH
1 EA	ALARM CONTACT	
1 EA	POWER SUPPLY	REGULATED, FILTERED, 24VDC, AMPERAGE AS REQUIRED

HARDWARE GROUP NO. 24

DOOR NUMBER: 502A

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
1 EA	HEAD TRACK	K.N. CROWDER C108XC110F
1 EA	HANGERS	K.N. CROWDER C106-4
1 EA	CONCEALED FLOOR GUIDE	K.N. CROWDER C913 X C-914
1 EA	ANGLE STOP	K.N. CROWDER CAS-2
1 EA	DOOR LOCK AND PULL	K.N. CROWDER C90I WITH KEYED CYLINDER

HARDWARE GROUP NO. 25

DOOR NUMBER: 520

<u>QTY</u>	<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>
1 EA	CONT. HINGE	X INTEGRAL HINGE GUARD CHANNEL X ADJUSTA-SCREWS X 4-THRUWIRE TRANSFER X IN-HINGE ACCESS PANEL F86 (E01-REX, E06) 24VDC C02011/C02021 J101 X 1.275 MM THICKNESS J208M/J211 (VERIFY), CUT: HARDWARE R0Y154
1 EA	ELECTRIFIED LOCK	R0Y346 - HEAVY DUTY
1 EA	SURFACE CLOSER	J32300 X 57MM WIDTH
1 EA	ARMOR PLATE	BY OTHERS (LEADING FROM CLEAN CORE INTO ROOM)
1 EA	DOOR EDGE GUARD	REGULATED, FILTERED, 24VDC, AMPERAGE AS REQUIRED
SET	SEALS	
1 EA	AUTO DOOR BOTTOM	
1 EA	THRESHOLD	
1 EA	ALARM CONTACT	
1 EA	CARD READER	
1 EA	POWER SUPPLY	

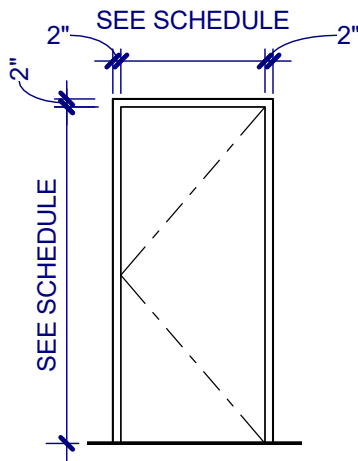
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Supplemental Drawing

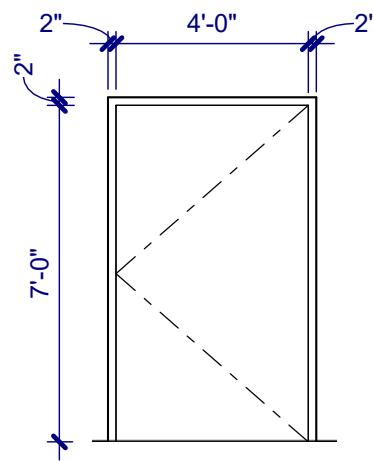
DATE: 04/30/18
PROJECT: VA HEALTH CARE SYSTEM, SIOUX FALLS, SD
RENOVATE 5TH FLOOR SURGERY

DRAWING NO.: ASD-1

MSH
ARCHITECTS



C
WOOD DOOR
HOLLOW METAL FRAME



E
WOOD DOOR
HOLLOW METAL FRAME