GUAM POWER AUTHORITY
ATURIDÅT ILEKTRESEDÅT GUAHAN
P.O.BOX 2977 • HAGÅTÑA, GUAM U.S.A. 96932-2977

August 5, 2025

AMENDMENT NO.: III

TO

INVITATION TO BID NO.: GPA-062-25

FOR

GLORIA B. NELSON PUBLIC SERVICE BUILDING – PHYSCIAL ACCESS CONTROL SYSTEM REPLACEMENT (DESIGN-BUILD)

Prospective Bidders are hereby notified of the following changes, response, and inclusion to an inquiry received from Bidder No. 1 dated June 19, 2025 and July 09, 2025, and Bidder No. 4 dated June 19, 2025, July 01, 2025 and July 09, 2025.

CHANGES:

1. ***REMOVE*** Page 97 of 166 and ***REPLACE*** with Page 97a of 166 (see attached):

   a. Under **INVITATION FOR BID, DIVISION 1 – GENERAL REQUIREMETNS SECTION 01010 SUMMARY OF WORK, Work shall include as needed but not limited to: a. Physical Access control System (PACS),** Paragraph one has changed

      FROM:

      1. GPA recommends the C•Cure 9000 (equivalent or better) ACS as the enterprise access control system for GPA. Recommendation of any different enterprise access control system to GPA shall be justified and evaluated utilizing the "FURPS" industry model of classifying software quality attributes. FURPS is an acronym for the following:
         - Functionality – Capability, Reusability, Security
         - Usability – Human Factors, Aesthetics, Consistency, Documentation, Responsiveness
         - Reliability – Availability, Predictability, Accuracy
         - Performance – Speed, Efficiency, Resource Consumption,
         - Supportability – Testability, Flexibility, Installability, Localizability

* ***TO NOW READ:***
  1. GPA recommends the C•Cure 9000 (equivalent or better) ACS as the enterprise access control system for GPA. Recommendation of alternate enterprise ACS shall be justified and approved by GPA.

2. ***REMOVE*** Page 100 of 166 and ***REPLACE*** with Page 100a of 166 (see attached):

   a. Under **INVITATION FOR BID, DIVISION 1 – GENERAL REQUIREMETNS SECTION 01010 SUMMARY OF WORK, 4. Security Camera(s)**, Paragraph one has changed

      FROM:
      4. Security Camera(s)

   * ***TO NOW READ:***
      4. Security Camera(s) shall be equivalent or better than Illustra Pro Gen4 Mini Dome 4 MP.

   b. Under **INVITATION FOR BID, DIVISION 1 – GENERAL REQUIREMETNS SECTION 01010 SUMMARY OF WORK, m. Public Address Systems**, Paragraph one has changed

      FROM:
      m. Public Address System: GPA has an existing PA system. Consideration to augment and add speakers to Critical Asset Areas. Work may include:
         1. Speakers
         2. All data and communication cables and wires.
         3. Additional required software and licenses needed for operations and maintenance
         4. All equipment, peripherals, and incidentals required for proper installation and operation of system.

   * ***TO NOW READ****:*
      m. DELETE

3. ***REMOVE*** Page 103 and 104 of 166 and ***REPLACE*** with Page 103a and 104a of 166 (see attached):

   a. Under **INVITATION FOR BID, DIVISION 1 – GENERAL REQUIREMETNS SECTION 01010 SUMMARY OF WORK, 5.0 DESIGN POLICY AND CRITERA**, Paragraph one has changed

      FROM:
      5.0 DESIGN POLICY AND CRITERIA

      Construction drawing submittals shall be AutoCAD 2013 and shall be plotted on 24”x 36” reproducible mylar sheets with the Guam Power Authority standard title block. Drawings shall be stamped and signed by a Professional Engineer required in the design and must be currently registered by the Guam Professional Engineers, Architects and Land Surveyors (PEALS) Board.

      Plans and specifications must be able to pass “building permit” review process prior to construction.

      Design shall be performed in accordance with the general criteria contained in the following references:

1. Building Law, Title XXXII. Government Code of Guam
2. International Building Code (Latest Edition)
3. International Fire Code (Latest Edition)
4. National Electrical Code (Latest Edition)
5. All other codes, rules and regulations, technical publication standards and design manuals applicable in the performance of this agreement.

Design drawings and specifications must be completed and submitted to the Guam Power Authority for review and approval.

The architectural/engineering (A-E) consultant of the Contractor shall incorporate all changes resulting from the review of the plans and specifications. Design shall become the property of the Guam Power Authority.

* ***TO NOW READ:***
5.0 DESIGN POLICY AND CRITERIA

Construction drawing submittals shall be AutoCAD 2013 and shall be plotted on 24"x
* 36" reproducible 24 lb bond paper sheets with the Guam Power Authority standard title block. Drawings shall be stamped and signed by a Professional Engineer required in the design and must be currently registered by the Guam Professional Engineers, Architects and Land Surveyors (PEALS) Board.

Plans and specifications must be able to pass "building permit" review process prior to construction.

Design shall be performed in accordance with the general criteria contained in the following references:

1. Building Law, Title XXXII. Government Code of Guam
2. International Building Code (Latest Edition)
3. International Fire Code (Latest Edition)
4. National Electrical Code (Latest Edition)
5. All other codes, rules and regulations, technical publication standards and design manuals applicable in the performance of this agreement.

Design drawings and specifications must be completed and submitted to the Guam Power Authority for review and approval.

The architectural/engineering (A-E) consultant of the Contractor shall incorporate all changes resulting from the review of the plans and specifications. Design shall become the property of the Guam Power Authority.

4. ***REMOVE*** Page 105 of 166 and ***REPLACE*** with Page 105a and of 166 (see attached):

   a. Under **INVITATION FOR BID, DIVISION 1 – GENERAL REQUIREMETNS SECTION 01010 SUMMARY OF WORK, 5.2 CORRECTEDFINAL DESIGN DOCUMENTS (100 PERCENT) a.**, Paragraph one has changed.

FROM:

a. A set of corrected final, reproducible design drawings on mylar with signed original professional stamp/seal. The electronic construction drawing files shall be submitted in Packaged CAD file in AutoCAD 2013 version. To facilitate GPA paperless contracting initiatives, the A-E shall provide drawing files in malware-free CDROM or USB Media.

***** ***TO NOW READ:***

***** a. A set of corrected final, reproducible design drawings on 24 lb bond paper with signed original professional stamp/seal. The electronic construction drawing files shall be submitted in Packaged CAD file in AutoCAD 2013 version. To facilitate GPA paperless contracting initiatives, the A-E shall provide drawing files in malware-free CDROM or USB Media.

5. ***REMOVE*** Page 105 of 166 and ***REPLACE*** with Page 105a and of 166 (see attached):

a. Under **INVITATION FOR BID, DIVISION 1 – GENERAL REQUIREMETNS SECTION 01010 SUMMARY OF WORK, 5.3 SUBMITTAL REQUIREMENTS**, Paragraph one has changed

FROM:

5.3 SUBMITTAL REQUIREMENTS

Submittals: The A-E shall provide the following number of copies for the various submittal stages to GPA:

	65%	100%	Final
Specifications	3	3	5
Drawings	3	3	5
Mylars			1
Design Analysis	2	2	2
Electronic Copies			2

***** ***TO NOW READ:***

5.3 SUBMITTAL REQUIREMENTS

Submittals: The A-E shall provide the following number of copies for the various submittal stages to GPA:

	65%	100%	Final
Specifications	3	3	5
Drawings	3	3	5
***** 24 lb bond paper			1
Design Analysis	2	2	2
Electronic Copies			2

INCLUSIONS:

* 1. ***REMOVE*** Page 100 of 166 and ***REPLACE*** with Page 100a of 166 (see attached):

Under **INVITATION FOR BID, DIVISION 1 – GENERAL REQUIREMETNS SECTION 01010 SUMMARY OF WORK, 1.3 Physical Access Control; I. 6**.

* 6. Provide/replace Network Video Recorder (NVR) with 24/7 record time and 45-day retention period. Backup solution to accommodate total system backup. System shall be or equivalent to ExacqVison A-Series IP Network Video Recorder. Ref.: Part No.: IP04-80T-R4A-E as it is used for other surveillance at other GPA facilities. System shall accommodate camera channels up to quantity specified in section p.

* 2. ***As Built via CD*** (to be picked up at the Procurement Office)

* 3. SECTION 087100 - DOOR HARDWARE

RESPONSE:

Bidder No.: 1 dated 06/19/2025:

QUESTION:

1. Request an RFI and bid extension of 4 to 6 weeks.
2. We would like to request for a 2nd site assessment to include the security room to determine civil/electrical requirements.
3. Please clarify the following regarding the specifications:
   a) **NVR and Recording:** There is no indication of a NVR on the specification other than the cameras will be equipped with a 32MB memory storage. The specification requires 24/7 recording up to 45 days. Please confirm that an NVR is required.
   b) **Camera Specifications:** Provide additional camera specifications, such as focal length and IR illumination.
   c) **Intercom Locations:** The bid specifications mention intercoms "at every critical asset area, "but their locations (door station and master unit) are not indicated on the provided plans.
   d) **Alarm Control Push Buttons:** Clarify the intended locations for the Alarm Control Push Buttons.
   e) **Audible Alarms:** Provide locations for audible alarms for the doors, as these are not indicated on the plans.
   f) **Turnstile Electrical Power:** Will the government provide the electrical power requirements at the turnstiles?
   g) **Public Address System:** Provide additional information on the existing Public Address system, including existing speaker locations, their wattage, and other associated equipment.
   h) **Conduit Use:** Are contractors permitted to use the existing conduits?

ANSWER:

1. Refer to ***Amendment No.: I and II***
2. Refer to ***Amendment No.: I***
3. a) Refer to ***INCLUSION 1*** above.
   b) Refer to ***CHANGES 2.a*** above.
   c) Critical asset areas are identified within the security assessment document that will be provided to the winning contractor due to it being Protected Critical Infrastructure Information. Estimation of 4 intercoms. Refer to ***INCLUSION 2*** above.
   d) Control Push Buttons are an option for consideration in design for exterior doors upon exiting. Currently installed at the 2nd floor employee entrance/exit and may still be consider as part of design after badging and exiting from a turnstile.
   e) Audible alarms are intended for alarmed doors at critical asset areas and/or exterior doors.
   f) It is assumed that the only electrical power necessary for turnstile operation is sensor circuitry and switch/relay actuations that's assumed defined by the turnstile manufacturer.
   g) Refer to ***CHANGES 2.b*** above.
   h) Existing conduits and raceways are permitted for use. Keep power and signal lines separate as per code. As a primary guideline, do not have any new conduits on exposed surfaces in the hallways and multi-use areas.

Bidder No.: 1 dated 07/09/2025:

QUESTION:

1. During the site assessment, it was unclear about:
   a) Status of the existing PA system
   b) Existing Speaker locations and its wattage taps
   c) Make and model of the PA head end and speaker's

   Please provide spec's, as-build and product data.
2. The Bid Schedule, page 33, references a Primary System (2c.1) and a Backup System (2c.2), however, the "Summary of Work" in the Technical Specification lacks supporting descriptive information for these items. Please provide the necessary supporting details for both the Primary and Backup Systems.
3. During the site assessment, it was unclear if item 2b.2 Enclosed the first floor elevator area was an error and should be removed in the bid. Instead of; provide a Card Reader at the elevator to access the elevator feature for employees only to go between floors.
4. Please provide additional information for items 2c.1 primary and 2c.2 backup in the Bid Form. Summary of Work doesn't provide information on what these items are for and locations.
5. Please provide additional information for items 2m Key/Door Locks in the Bid Form. Summary of Work doesn't provide information on what these items are for and location.
6. Is there any specific working time required during the work implementation?
7. Will they allow drilling during working hours?
8. Will they provide a break area?
9. Are we to provide the Portable Toilet and Dumpster at site?
10. Will GPA provide CAD files that will be used to complete the as-built drawing as require in the bid?
11. We are requesting an additional site assessment for the PA system and Locks upon GPA providing the contractors with the required information.
12. We are requesting an additional extension to response to the RFI's and bid submittal.

13. Please clarify the "FURPS" industry model classifying software quality attributes and which federal or local laws if follows…examples would be UL listing, Uniform Building Code, NEC, NFPA codes, etc.
    It seems that this classifying is not a known regulatory requirement in the Security Industry. We will provide a Homeland Symmetry Access control Homeland Security Edition (HSE) is designed to provide a powerful integrated access control solution, compliant with United States Federal Government smart card standards, such as FIPS 201, CAC, PIV, TWIC and FRAC," FICAM Approved (GSA APL listed), Direct integration to approved UL2050 SCIF (Military High Security) intrusion controllers, Risk Management Framework (RMF) approved installations.
14. Please provide additional information on the vehicle barrier/Lift arm…if this will be included in the bid which is showing on Page 159 and not included in the Summary of Work. If so, would there be a separate line cost?

ANSWER:

1. Refer to ***CHANGES 2.b*** above.
2. Primary Server will be the main server operating the doors. Backup system should be configured the same as the primary, but only operates when the main server goes down. Server specifications will be dependent on the type of ACS system being installed. Both servers can either be a physical or virtual one and technical specifications is dependent on what type of system being installed.
3. Refer to ***01010-4 Summary of Work Section 1.3 - PHYSICAL ACCESS CONTROL SYSTEM*** Page 98 of 166, Item b.1 "Enclose the area between the first floor lobby and second floor via the main stairwell. Option to install at the base of the stairs or at the landing second floor area." The authority is leaning toward turnstiles at the main stairwell (either at base or on top landing). Consideration to enclose the first floor elevator area may be proposed by your design team for ultimate access control as needed.
4. There will be one system, but 2 servers (primary and secondary). Primary system and server will be configured for daily operations. The backup server will be configured the same as the primary and will only be on when the primary goes down. Servers can either be physical or virtual and technical specifications will be dependent on what type of ACS system being installed.
5. From the design specifications choice of 4 key/door locks options, it is confirmed that "Best Access Systems: Div. of Stanley Security Solutions, Inc." was the one installed by the construction contractor. The Bid Schedule item 2m Key/Door Locks for quantity 9 ea. is a direct consequence of the itemized requirements from earlier contractor assessment survey report that formed the basis of this bid package.
6. Refer to ***01020-2 Special Reminders Section 1.5 - WORKING HOURS*** Page 109 of 166, "Working hours shall be between 7:30 a.m. and 4:30 p.m. Monday through Friday.". However, we may accommodate after-hour work to minimize disruption for certain key areas.
7. Simple, short and occasional drilling is tolerable. Involved, complex or long-duration concrete drilling will require prior notice especially in the vicinity of conference rooms and executive offices. Note: All noise/vibration generating operations shall not occur during high-level meetings or teleconferences.
8. The concrete canopies at the far east end of the employees parking lot is typically permitted for use by contractors for their breaks.

9. The scope of this project assumes that contactor crew presence would not warrant the need for a portable toilet – the building's facility can be used. If contractor determines that a significant crew is desired, he/she may make arrangements with the owner for such. Similarly, the same applies to a dumpster – it is anticipated that debris generation would be minimal enough to avoid the need for a dumpster and rely on daily debris removal by the contractor. If significant debris is anticipated during a certain period, the contractor shall make arrangements with the owner. In either case the contractor is responsible for the articles.
10. PDF As-Builts shall be provided. Actual CAD files on-hand are only the 100% Design version and will be provided to the winning contractor for their subsequent As-Built deliverables. Refer to ***INCLUSION 2*** above.
11. With the As-Built provided, please reference As-Build sheets pertaining to Door Schedules and Lock Placements as well as attached Specifications for Door Hardware. Note, the building construction contractor had selected Best Access Systems for the Lock Cylinders. Additional site assessments should not be necessary. Refer to ***INCLUSION 2*** above.
12. Refer to Amendment No.: II
13. Refer to ***CHANGES 1*** above.
14. No. The vehicle barrier/lift arm is a separate and ongoing bid project.

Bidder No.: 4 dated 06/19/2025:

QUESTION:

1. Power Source Clarification
   Can the GPA confirm whether dedicated electrical panelboards are available for the PACS equipment, or should we plant to provide new dedicated circuits and panelboards?
2. Standby Power Requirements
   Should PACS components-including access control panels, surveillance cameras, intercoms, etc.-be connected to the existing emergency power system, or should we provide independent UPS/back-up battery systems?
3. Reuse of Existing Infrastructure
   Will existing raceways (e.g., conduits, cable trays) be reused for the new PACS components, or should we assume all-new cable routing and infrastructure?
4. Design Submittal Standards
   Can GPA clarify whether only the electrical design drawings must be signed and stamped by a Guam-licensed PE, or are all Low-voltage/security drawings also subject to this requirement?
5. Work Hours & Phasing
   Are there any known restrictions or preferences regarding after-hours work or phased installation to minimize disruption in this active facility?
6. Request for Existing Drawings
   Can GPA provide existing as-built drawings for the Gloria B. Nelson building, particularly electrical one-line diagrams, panel schedules, site power layouts, and any other relevant documentation to support design coordination?

7. Integration with Existing Systems
   Are there any existing building systems (e.g., CCTV, intercom, fire alarm) that will remain in service and require integration with the new PACS?
8. Coordination with Security Integrator
   Will the security systems integrator provide final devise counts, types, and placement for design coordination, or is the Design-Build team expected to perform the full layout and specification?
9. What is the existing ACS in the Building? License? (If there is an existing system, can the existing system accommodate the additional ACS without any upgrade.
10. Will the new additional door access be integrated into the existing system?
11. Do you need an enrollment computer (needed if ever there's a need to issue an ID to new employee or re-issue card.
12. How about the ID Cards? How many they needed? Regular HID or with Employee Pictures and Stuff
13. Do we need to provide the printers?
14. Specs says that Card Reader (X2) is means a back-to-back card reader? or card reader and push to exit.
15. How many pounds of magnet/maglocks do you require? Not specify to their specification
16. IP Camera
    a. How many channels?
       - Can we use their existing rack or cabinet to mount the NVRs?
    b. Storage
       - Capacity
       - Do you need external storage for backup? What is the capacity
    c. Can we use the existing IDB to connect at least one cable as a backbone for the IP camera PoE Switch? Is there an RU space available for PoE Switch?
    d. Does the camera need to be integrated into the ACS, meaning that if the door alarm turns on or force access occurs, the PTZ camera will automatically focus on the door?
    e. Also, the drawing doesn't say if the camera needed is PTZ, Bullet and Dome.
    f. No brand name for the Camera? The specs says as long as NDAA compliant
    g. Assuming no existing camera, system interrogation is not needed?

ANSWER:

1. With the building relatively new, a good number of spares are available in all electrical panels. The contractor may use the spares accordingly.
2. Refer to ***01010-3 Summary of Work Section 1.3 - PHYSICAL ACCESS CONTROL SYSTEM*** Page 97 of 166, Item k "Back-up power supply. Minimum of 15-minute battery run time with designated load".
3. Existing Cable trays and conduits can be used, if space permitted for routing of new cabling. Existing cabling should not be used for warranty purposes.
4. The licensed PE signature is necessary for all electrical subjects.
5. Refer to ***01020-2 Special Reminders Section 1.5 - WORKING HOURS*** Page 109 of 166, "Working hours shall be between 7:30 a.m. and 4:30 p.m. Monday through Friday." However, we may accommodate after-hour work to minimize disruption for certain key areas.
6. Refer to ***INCLUSION 2*** above.
7. Stand alone for now. Integration may be considered at a later time.

8. This is to be performed with the design team.
9. Current ACS system is Kershaw/RISG Product Odyssey version 8.0.1, licensed. Existing system will be completely removed. This is a whole new stand-alone enterprise system.
10. No
11. No
12. ID cards are HID iclass series and would like to use the existing cards with the option of Employee pictures and information with the new system.
13. Yes
14. Car Reader In and Out. No push to exit.
15. Contractor may make design recommendations where necessary. GPA will review contractor recommendations.
16. Refer to ***CHANGES 2.a*** above.
    a. No, as it is currently being utilized by our current system. Will need to check if there space available in our current rack.
    b. Refer to ***INCLUSION 1*** above.
    c. Yes
    d. That capability will be desired and should be recommended within your design.
    e. Contractor to provide devices that meet or exceed GPA requests. GPA will review and approve accordingly.
    f. Refer to ***CHANGES 2.a*** above.
    g. System integration needed for the new ACS and the cameras that would be installed to monitor them.

Bidder No.: 4 dated 07/01/2025:

QUESTION:

1. The Bid Document requests interior wall partitions//barriers at the following locations:
   a.) between the first floor lobby and second floor via the main stair well and
   b.) the first-floor elevator area. During the bid walk it was noted that GPA may want turnstiles.
   What assembly (wall, partition, turnstile, etc.), if any, does GPA require at these locations?
2. CCTV
   a. NVR, How Many Channels:
   b. Storage Capacity
   c. Can we mount the NVR to the existing Rack 4. What is the size of the PoE Switch 5. Can we mount the switch to existing It room Communication Rack 6. Can we connect the PoE switch to GPA Battery Backup or we need to provide our own Battery Backup? What is the size recommended?
   d. Can we plug the UPA to GPA existing outlet 8. Backbone between Communication Rooms and IDF? Can we use GPA exiting backbone? What is the existing? e.g. copper or Fiber 9. Type of Camera every location? e.g. copper or Fiber 9. Type of Camera every location? e.g. PTZ, Dome, Bullett and Mega Pixel and Lens Requirements 10. Do we need to provide Complete set of Computer as a Monitoring System? What is the size of Monitor?

3. Security Access System
   a. What is the Manufacturer/Brand and Software of the existing Security Access system? Please provide us the existing as-build if available. Please identify the following as it needed to be included to the design phase a. Door with Magnalock b. Door with Electric Door Strike c. Door with Single Keypad d. Door with Double keypad e. Door with Security Magnetic Switch f.
   Which Door needed Audible Sounder Siren/Alarm
   b. Can we mount the Security Access Server to the GPA existing Rack/Cabinet, we only need 4U
   c. Can we use GPA Existing Batter backup to power up the CCure Server and Power Supply
   d. Can we use existing GPA outlet to power all the power all door access power supply
   e. Please clarify if the new Security Access System will be integrated to Existing Public Address?
   f. Please clarify if the new Security Access System will be integrated to Existing Fire Alarm System? Or you just need specific door?
   g. If we need to some assistance from existing Security Access vendors and Fire Alarm to make an adjustment if needed, are we able to call those vendors if ever and whose cost is that?
   h. If we need to some assistance from existing Security Access vendors and Elevator to make an adjustment if needed, are we able to call those vendors if ever and whose cost is that?
   i. Do we need to provide Complete set of Computer as a Monitoring System?
   What is the size of Monitor 10. Please provide as –built for Public Address and Security System.
   j. Please explain what is the purpose of the Primary and Secondary? Do you need two Security Access Control Server but mirrored?

ANSWER:

1. Refer to ***01010-4 Summary of Work Section 1.3 - PHYSICAL ACCESS CONTROL SYSTEM*** Page 98 of 166, Item b.1 “Enclose the area between the first floor lobby and second floor via the main stairwell. Option to install at the base of the stairs or at the landing second floor area.” The authority is leaning towards turnstiles, however this would be for your design team to ultimately recommend.
2. CCTV
   a. Refer to ***CHANGES 2.a and INCLUSION 1*** above.
   Your design team can recommend either PTZ, Dome or Bullet with justification. However, as stated above and used in other locations for surveillance are dome cameras.
   b. Storage capacity should hold up to at least 45 days of recording as stipulated. As an example, see below:
   - Daily storage 40GB x # of cameras (58) = 2320GB/day
   - 2320 GB/Day x 45days (retention) = 104,400 GB
   - 104,400GB divided by 1024 = 102 Terabytes (TB)
   c. NVR can be mounted onto the existing rack dependent on the size of NVR being supplied. Switches can be mounted in the COMMS room as long as space is permitted. Battery backup should be supplied by vendor for warranty purposes of equipment. The size of battery should be rated for the amount of power being utilized.
   d. Contractor shall not use the building's wall outlets for powering devices/installations per this contract. The Contractor shall obtain necessary power via available power sources from the respective electrical rooms, following best practices and current codes and regulations to that end.; Copper wiring; Yes, Vendor is responsible to provide NVR server.; 24 inches

3. a. The Manufacturer is Kershaw System/RISG Product. Refer to ***INCLUSION 3*** above. Door Hardware specifications and the fact that the building construction contractor had selected Best Access Systems for the Lock Cylinders.
   b. ACS server can be mounted on existing rack dependent of size of server being supplied.
   c. No, battery backup should be rated and supplied by vendor for warranty purposes.
   d. Wall outlet power may not be used to support any installed feature by the contractor on this project. Contractor shall route necessary power from an appropriate electrical panel in the building's nearest electrical room per applicable codes and regulations.
   e. Refer to ***CHANGES 2.b*** above.
   f. The fire alarm system is a separate system and shall remain so. Contractor shall perform respective project tasks independent of the fire alarm system.
   g. The contractor is solely responsible for and shall engage other system's firms as needed to accomplish project goals.
   h. The contractor is solely responsible for and shall engage other system's firms as needed to accomplish project goals.
   i. Yes, server and all equipment needed is supplied by vendor.; Size is dependent on your system being supplied (standard 24 inch).; Refer to ***INCLUSION 2*** above.
   j. Primary is for the main system and Secondary as a fail over/backup system. Preferable, 2 servers mirrored and configured so when primary goes down, it can be switched to the secondary.

Bidder No.: 4 dated 07/09/2025:

QUESTION:

1. We would like to inquire about the requirements for C-13 and C-15 contractor's licenses. Will you allow that these licenses be submitted upon entering into a contract with the Authority, and not required to be submitted during the bid submission?

ANSWER:

1. Kindly refer to **SPECIAL REMINDERS TO PROSPECTIVE BIDDERS** under OTHER REQUIREMENTS:

(XX) OTHER REQUIREMENTS:
A Guam Contractor's License (C-13 and C-15) with proof of Employer Identification Number (EIN) is required upon submission in order to provide a proposal for this engagement and is a pre-condition for entering into a contract with the Authority.

All other Terms and Conditions in the bid package shall remain unchanged and in full force.

JOHN M. BENAVENTE, P.E.
General Manager

Upgrade of existing ACS for facility physical security measures may be further specified or as directed by GPA beyond the initial assessment document.

ACS shall be placed in designated locations as identified in the assessment or as directed by GPA and with contractor site visit and final design. System shall record, report, and/or alert to the Security Operations Center, IT Division and/or designated area as directed by GPA.

Equipment shall include as needed but not limited to:

a. Enterprise Access Control System (C•Cure 9000 equivalent or better)
b. To include a primary system and a secondary backup system
c. Control Panels (iSTAR)
d. Card Readers (HID two method security readers)
e. Turnstiles
f. Balanced Magnetic Switches
g. Audible Sounder Alarms
h. Surveillance Cameras (Illustra Pro)
i. Motion Detection
j. Magnetic lock system
k. Back-up power supply. Minimum of 15-minute battery run time with designated load.
l. All required ACS software and licenses needed for operations and maintenance
m. All data and communication cables and wires
n. All equipment, materials, peripherals, and incidentals required for proper installation, safeguard and operation of system.

Work shall include as needed but not limited to:

a. Physical Access Control System (PACS): Replace and removing existing Access Control System (ACS) and install a new enterprise ACS, control panels, readers and other components as necessary and identified below at the GBNPSB.

* 1. GPA recommends the C•Cure 9000 (equivalent or better) ACS as the enterprise access control system for GPA. Recommendation of alternate enterprise ACS shall be justified and appred by GPA.

maintenance

3. All data and communication cables and wires

* 4. Security Camera(s) shall be equivalent or better than Illustra Pro Gen4 Mini Dome 4 MP.
   a) Cameras shall be rated for indoor/outdoor and/or hazardous area use (as required).
   b) Cameras shall be high definition and may include pan, tilt, zoom (PTZ) capabilities.
   c) Internal USB storage (min 32Gb memory)
   d) Camera housings shall be tamper and/or vandal security type.
5. All equipment, materials, peripherals, and incidentals required for proper installation and operation of system.

* 6. Provide/replace Network Video Recorder (NVR) with 24/7 record time and 45-day retention period. Backup solution to accommodate total system backup. System shall be or equivalent to ExacqVison A-Series IP Network Video Recorder. Ref.: Part No.: IP04-80T-R4A-E as it is used for other surveillance at other GPA facilities. System shall accommodate camera channels up to quantity specified in section p.

* m. DELETE

n. Intercom System: Install an intercom system (speaker box) linked to the SOC at every critical asset area. Consideration is also being made to install an intercom system at the main PAC entry/exit points at GBNPSB to communicate with SOC operators. Work may include:

1. Intercom system
2. All data and communication cables and wires.
3. Additional required software and licenses needed for operations and maintenance
4. All equipment, peripherals, and incidentals required for proper installation and operation of system.

o. Security Storage Cabinet (as needed): Install security storage cabinet to house and protect security devices or systems on site

1. Tamper Switches

p. Estimated Equipment Need (Quantities listed are minimum, contractor shall verify):

Card Readers---------- 73
BMS ---------- 61
Cameras---------- 62
Key/Lock Doors----------9
Turnstiles ----------4
Motion Detection--------3

and Safety Standards Act, as set forth in Title 29, C.F.R. Copies of these regulations may be obtained from Labor Building, 14th and Constitution Avenue, NW, Washington, DC 20013.

b. The Contractor shall comply with the provisions of the Federal Occupational Safety and Health Act, as amended.

2.0 LOCATION

The proposed work is located at the Gloria B. Nelson Public Service Building. Please see attached project site location.

3.0 DRAWINGS

Drawings showing the proposed site plan one-line diagram are included for reference.

4.0 PERFORMANCE PERIOD

Design Period .....60 Calendar Days
Construction Period .....180 Calendar Days
Total .....240 Calendar Days

GPA and Contractor will meet prior to the Project NTP to show these periods can be accelerated and reduced.

* 5.0 DESIGN POLICY AND CRITERIA

Construction drawing submittals shall be AutoCAD 2013 and shall be plotted on 24”x 36” reproducible 24 lb bond paper sheets with the Guam Power Authority standard title block. Drawings shall be stamped and signed by a Professional Engineer required in the design and must be currently registered by the Guam Professional Engineers, Architects and Land Surveyors (PEALS) Board.

Plans and specifications must be able to pass “building permit” review process prior to construction.

Design shall be performed in accordance with the general criteria contained in the following references:

1. Building Law, Title XXXII. Government Code of Guam

2. International Building Code (Latest Edition)
3. International Fire Code (Latest Edition)
4. National Electrical Code (Latest Edition)
5. All other codes, rules and regulations, technical publication standards and design manuals applicable in the performance of this agreement.

Design drawings and specifications must be completed and submitted to the Guam Power Authority for review and approval.

The architectural/engineering (A-E) consultant of the Contractor shall incorporate all changes resulting from the review of the plans and specifications. Design shall become the property of the Guam Power Authority.

5.1 PRELIMINARY DESIGN (65 PERCENT):

The A-E will develop working drawings, specifications, detailed cost estimates, design analysis, and material samples to the intermediate design stage (65% design). This submittal shall include, but not be limited to, the following:

a. Drawings:
   1. Cover Sheet/Project Location Maps
   2. Index of Drawings, Abbreviation and Legends
   3. Civil drawings:
      i. Site Plan
         Scale 1" = 20' or as appropriate
      ii. Required Drawing Details
   4. Architectural, Structural, Mechanical, and Electrical Drawings:
   5. Detail drawings of concrete structures and foundations as required:
      Scale ¼" = 1'-0" or as appropriate.
   6. Details drawings of mechanical and electrical equipment, support and connections. Drawings shall be scaled as appropriate.

b. Specifications:
   Specifications, including all technical and special conditions, shall be prepared by the A-E to meet GPA standards for competitive bidding for all work. They shall be descriptive enough to permit full and free competition among bidders. When necessary to use manufacturer's name to describe a type of product, at least three (3) manufacturers shall be named, when feasible, and shall include the words "or approved equal." References to meet owner and A-E shall be used in the specification.

5.2 CORRECTED FINAL DESIGN DOCUMENTS (100 PERCENT):

The corrected final design documents will include all of the 95 percent documents with all the final corrections completed, and specifically will include:

* a. A set of corrected final, reproducible design drawings on 24 lb bond paper with signed original professional stamp/seal. The electronic construction drawing files shall be submitted in Packaged CAD file in AutoCAD 2013 version. To facilitate GPA paperless contracting initiatives, the A-E shall provide drawing files in malware-free CDROM or USB Media.
b. Two sets of corrected final specifications. Electronic specifications (and other bid documents) shall be saved in Microsoft Word (.docx) and searchable Adobe Acrobat (.pdf) format. To facilitate government paperless contracting initiatives, the A-E shall provide specifications (and other bid documents) malware-free CDROM or USB Media.
c. Two copies of final cost estimate
d. Two copies of final design analysis
e. Two copies of final construction time schedule

*** 5.3 SUBMITTAL REQUIREMENTS**

Submittals: The A-E shall provide the following number of copies for the various submittal stages to GPA:

	65%	100%	Final
Specifications	3	3	5
Drawings	3	3	5
* 24 lb bond paper			1
Design Analysis	2	2	2
Electronic Copies			2

5.4 DESIGN SCHEDULE

The A-E shall adhere to the following schedule: (days indicated are based upon issuance of notice to proceed for any particular design stage)

	Authorized Days
NTP	0
Submittal (65%)	0 - 30
NTP to 100%	30 - 60
Final Submittal (100%)	60

CLUSTION 3

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Mechanical door hardware for the following:

a. Swinging doors.

2. Cylinders for door hardware specified in other Sections.
3. Electrified door hardware.

B. Related Sections:

1. Section 084113 "Aluminum-Framed Entrances and Storefronts" for installation of entrance door hardware, including cylinders.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include construction and installation details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: Details of electrified door hardware, indicating the following:

1. Wiring Diagrams: For power, signal, and control wiring and including the following:

a. Details of interface of electrified door hardware and building safety and security systems.
b. Schematic diagram of systems that interface with electrified door hardware.
c. Point-to-point wiring.
d. Risers.
e. Elevations doors controlled by electrified door hardware.

2. Operation Narrative: Describe the operation of doors controlled by electrified door hardware.

C. Other Action Submittals:

1. Door Hardware Schedule: Prepared by or under the supervision of Installer, detailing fabrication and assembly of door hardware, as well as installation procedures and diagrams. Coordinate final door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

a. Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate

submission of door hardware schedule with scheduling requirements of other work to facilitate the fabrication of other work that is critical in Project construction schedule.

b. Format: Use same scheduling sequence and format and use same door numbers as in the Contract Documents.

c. Content: Include the following information:

1) Identification number, location, hand, fire rating, size, and material of each door and frame.
2) Locations of each door hardware set, cross-referenced to Drawings on floor plans and to door and frame schedule.
3) Complete designations, including name and manufacturer, type, style, function, size, quantity, function, and finish of each door hardware product.
4) Description of electrified door hardware sequences of operation and interfaces with other building control systems.
5) Fastenings and other pertinent information.
6) Explanation of abbreviations, symbols, and codes contained in schedule.
7) Mounting locations for door hardware.
8) List of related door devices specified in other Sections for each door and frame.

2. Keying Schedule: Prepared by or under the supervision of Installer, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations that are coordinated with the Contract Documents.

1.3 INFORMATIONAL SUBMITTALS

A. Product Certificates: For electrified door hardware, from the manufacturer.

1. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.

B. Product Test Reports: For compliance with accessibility requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for door hardware on doors located in accessible routes.

C. Warranty: Special warranty specified in this Section.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of door hardware to include in maintenance manuals. Include final hardware and keying schedule.

1.5 QUALITY ASSURANCE

A. Source Limitations: Obtain each type of door hardware from a single manufacturer.

B. Fire-Rated Door Assemblies: Where fire-rated door assemblies are indicated, provide door hardware rated for use in assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to NFPA 252 or UL 10C, unless otherwise indicated.

C. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.

D. Means of Egress Doors: Latches do not require more than 15 lbf to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.

E. Accessibility Requirements: For door hardware on doors in an accessible route, comply with the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines.

1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.
2. Comply with the following maximum opening-force requirements:

    a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf applied perpendicular to door.
    b. Sliding or Folding Doors: 5 lbf applied parallel to door at latch.
    c. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.

3. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than 1/2 inch high.
4. Adjust door closer sweep periods so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the leading edge of the door.

F. Keying Conference: Conduct conference at Project site to comply with requirements in Section 013100 "Project Management and Coordination." In addition to Owner Representative, Contractor, and Architect, conference participants shall also include Supplier, and Installer. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:

1. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
2. Preliminary key system schematic diagram.
3. Requirements for key control system.
4. Requirements for access control.
5. Address for delivery of keys.

G. Preinstallation Conference: Conduct conference at Project site.

1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
2. Inspect and discuss preparatory work performed by other trades.
3. Inspect and discuss electrical roughing-in for electrified door hardware.
4. Review sequence of operation for each type of electrified door hardware.
5. Review required testing, inspecting, and certifying procedures.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.

B. Tag each item or package separately with identification coordinated with the final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.

C. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

D. Deliver keys and permanent cores to Owner by registered mail or overnight package service.

1.7 COORDINATION

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

B. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.

D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Structural failures including excessive deflection, cracking, or breakage.
b. Faulty operation of doors and door hardware.
c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.

2. Warranty Period: Three years from date of Substantial Completion, unless otherwise indicated.

a. Electromagnetic Locks: Five years from date of Substantial Completion.
b. Exit Devices: Two years from date of Substantial Completion.
c. Manual Closers: 10 years from date of Substantial Completion.

1.9 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. Provide door hardware for each door as scheduled in Part 3 "Door Hardware Schedule" Article to comply with requirements in this Section.

1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and products equivalent in function and comparable in quality to named products.
2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.

B. Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in Part 3 "Door Hardware Schedule" Article. Products are identified by using door hardware designations, as follows:

1. Named Manufacturers' Products: Manufacturer and product designation are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in Part 3 "Door Hardware Schedule" Article.

2.2 HINGES

A. Hinges: BHMA A156.1. Provide template-produced hinges for hinges installed on hollow-metal doors and hollow-metal frames.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Bommer Industries, Inc.
b. Hager Companies.
c. McKinney Products Company; an ASSA ABLOY Group company.
d. Stanley Commercial Hardware; Div. of The Stanley Works.

2.3 CENTER-HUNG AND OFFSET PIVOTS

A. Center-Hung and Offset Pivots: BHMA A156.4.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:

    a. DORMA Architectural Hardware; Member of The DORMA Group North America.
    b. IVES Hardware; an Ingersoll-Rand company.
    c. Rixson Specialty Door Controls; an ASSA ABLOY Group company.

2.4 CONTINUOUS HINGES

A. Continuous Hinges: BHMA A156.26; minimum 0.120-inch- thick, hinge leaves with minimum overall width of 4 inches; fabricated to full height of door and frame and to template screw locations; with components finished after milling and drilling are complete.

B. Continuous, Gear-Type Hinges: Extruded-aluminum, pinless, geared hinge leaves joined by a continuous extruded-aluminum channel cap; with concealed, self-lubricating thrust bearings.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

    a. Bommer Industries, Inc.
    b. Hager Companies.
    c. McKinney Products Company; an ASSA ABLOY Group company.
    d. Stanley Commercial Hardware; Div. of The Stanley Works.

2.5 MECHANICAL LOCKS AND LATCHES

A. Lock Functions: As indicated in door hardware schedule.

B. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:

1. Bored Locks: Minimum 1/2-inch latchbolt throw.
2. Mortise Locks: Minimum 3/4-inch latchbolt throw.
3. Deadbolts: Minimum 1.25-inch bolt throw.

C. Lock Backset: 2-3/4 inches, unless otherwise indicated.

D. Lock Trim:

1. Description: As indicated.
2. Levers: Cast.
3. Escutcheons (Roses): Cast.
4. Dummy Trim: Match lever lock trim and escutcheons.
5. Operating Device: Lever with escutcheons (roses).

E. Strikes: Provide manufacturer's standard strike for each lock bolt or latchbolt complying with requirements indicated for applicable lock or latch and with strike box and curved lip extended to protect frame; finished to match lock or latch.

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Manufacturer's special strike box fabricated for aluminum framing.
4. Rabbet Front and Strike: Provide on locksets for rabbeted meeting stiles.

F. Bored Locks: BHMA A156.2; Grade 1; Series 4000.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

    a. Best Access Systems; Div. of Stanley Security Solutions, Inc.
    b. SARGENT Manufacturing Company; an ASSA ABLOY Group company.
    c. Schlage Commercial Lock Division; an Ingersoll-Rand company.
    d. Yale Security Inc.; an ASSA ABLOY Group company.

G. Mortise Locks: BHMA A156.13; Operational Grade 1, Security Grade 2; stamped steel case with steel or brass parts; Series 1000.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

    a. Best Access Systems; Div. of Stanley Security Solutions, Inc.
    b. SARGENT Manufacturing Company; an ASSA ABLOY Group company.
    c. Schlage Commercial Lock Division; an Ingersoll-Rand company.
    d. Yale Security Inc.; an ASSA ABLOY Group company.

2.6 ELECTRIC STRIKES

A. Electric Strikes: BHMA A156.31; Grade 1; with faceplate to suit lock and frame.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:

    a. Adams Rite Manufacturing Co.; an ASSA ABLOY Group company.
    b. Dortronics Systems, Inc.
    c. DynaLock Corp.
    d. Folger Adam Electric Door Controls; an ASSA ABLOY Group company.
    e. HES, Inc.; an ASSA ABLOY Group company.
    f. Rutherford Controls Int'l. Corp.
    g. Security Door Controls.
    h. Trine Access Technology.
    i. Von Duprin; an Ingersoll-Rand company.

2.7 ELECTRONIC ACCESS CONTROL LOCKSETS

A. Basis of Design: "AD-300-CY" series as manufactured by Schlage, an Ingersoll Rand Company or approved equal.

B. Requirements: Hardwired electronic locksets shall comply with the following requirements.

1. Type: Heavy-duty, bored cylindrical, non-handed, field-reversible.
2. Backset: 2-3/4-inch (70 mm) standard, with 2-3/8-inch (60 mm), 3-3/4-inch (95 mm) and 5-inch (127 mm) backset optional.
3. Latchbolt Throw: 1/2-inch (13 mm) with optional 3/4-inch (19 mm) throw available.
4. Chassis: Shall accommodate standard 161 cylindrical lock prep for 1-3/4-inch (44 mm) doors standard, or 1-3/8-inch (35 mm) to 2-3/4-inch (70 mm) thick doors in 1/8-inch (3 mm) increments.

5. Applicable Standards:

    a. Listed, UL 294 - The Standard of Safety for Access Control System Units.
    b. Compliant with ANSI Standard A156.25 and A156.2 Series 4000, Grade 1 strength and operational requirements.
    c. Compliant with ANSI/BHMA A156.25 Grade 1 Operation and Security Requirement.
    d. Certified to UL10C, FCC Part15, Florida Building Code Standards TAS 201 large missile impact, TAS 202 and TAS 203.
    e. Compliant with ASTM E330 for door assemblies.
    f. Compliant with ICC / ANSI A117.1, NFPA 101, NFPA 80, and Industry Canada RSS-210.

6. Lockset Functions: Provide locks with following functions, as scheduled, that are field configurable without taking the lock off the door:
7. Emergency Override: Lockset shall have the ability to utilize emergency mechanical key override with the following manufacturer's key systems in the lever:
8. Levers:

    a. Vandal Resistance: Exterior (secure side) lever designed with ability to rotate freely while door remains securely locked, preventing damage to internal lock components from vandalism by excessive force.
    b. Levers shall operate independently of each other.
    c. Style: Rhodes.

9. Power Supply:

    a. Required Power Supply: 12VDC or 24VDC.

        1) Max current draw not to exceed 250mA.

10. Features: Locksets shall incorporate the following features.

    a. Ability to communicate unit's communication status.
    b. Visual tri-colored LED indicators that indicate activation, additional PIN code credential required, operational systems status, system error conditions and low power conditions.

c. Visual bi-colored LED indicator on interior that is capable of indicating secured/unsecured status of device to occupants on interior.
d. Audible feedback that can be enabled or disabled.
e. Tamper-Resistant Screws: Tamper torx screws on inside escutcheon for increased security.

11. Adaptability:

a. Open Architecture: Locksets manufactured with open architecture characteristics capable of handling new and existing access control software and credential reading technology.
b. Field changeable Reader Modules: Lockset to have the ability to change credential reader technologies without being removed from door.

12. Switches: Provide locksets with the following switches, standard:

a. Door Position Switch
b. Interior Cover Tamper Guard
c. Mechanical Key Override
d. Request to Exit
e. Request to Enter
f. Lock/Unlock Status (Clutch Position)

13. Credential Reader:

a. Credential Reader Configuration: Provide credential reader modules in the following configurations, as indicated in door hardware sets. Multi-tech contactless reader shall be NFC-Compatible and read access control data from both 125 kHz and 13.56 MHz contactless smart cards. The multi-tech contactless reader shall be optimally designed for use in access control applications that require reading both 125 kHz proximity and 13.56 MHz contactless smart cards.

1) Proximity, Smartcard via Multi-Technology.

C. ACCESSORIES

1. Fasteners: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.

2. Cable – Hardwired Electronic Access Control Lockset and Exit Device Trim:

a. Provide data and DC power cabling as required. Provide cabling of type(s) as approved by access control device manufacturer, subject to compliance with building code requirements, for the approved installation.

2.8 MANUAL FLUSH BOLTS

A. Manual Flush Bolts: BHMA A156.16; minimum 3/4-inch throw; designed for mortising into door edge.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

    a. Adams Rite Manufacturing Co.; an ASSA ABLOY Group company.
    b. Burns Manufacturing Incorporated.
    c. Don-Jo Mfg., Inc.
    d. Door Controls International, Inc.
    e. Hiawatha, Inc.
    f. IVES Hardware; an Ingersoll-Rand company.
    g. Trimco.

2.9 EXIT DEVICES AND AUXILIARY ITEMS

A. Exit Devices and Auxiliary Items: BHMA A156.3.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

    a. Adams Rite Manufacturing Co.; an ASSA ABLOY Group company.
    b. Arrow USA; an ASSA ABLOY Group company.
    c. Cal-Royal Products, Inc.
    d. Corbin Russwin Architectural Hardware; an ASSA ABLOY Group company.
    e. Detex Corporation.
    f. Door Controls International, Inc.
    g. DORMA Architectural Hardware; Member of The DORMA Group North America.
    h. Dor-O-Matic; an Ingersoll-Rand company.
    i. K2 Commercial Hardware; a Black & Decker Corp. company.
    j. Monarch Exit Devices & Panic Hardware; an Ingersoll-Rand company.
    k. Precision Hardware, Inc.; Division of Stanley Security Solutions, Inc.
    l. Rutherford Controls Int'l. Corp.
    m. SARGENT Manufacturing Company; an ASSA ABLOY Group company.
    n. Von Duprin; an Ingersoll-Rand company.
    o. Yale Security Inc.; an ASSA ABLOY Group company.

2.10 LOCK CYLINDERS

A. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver.

1. Manufacturer: Same manufacturer as for locking devices.
2. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

    a. Arrow USA; an ASSA ABLOY Group company.
    b. ASSA, Inc.; an ASSA ABLOY Group Company.

c. Best Access Systems; Div. of Stanley Security Solutions, Inc.
d. Corbin Russwin Architectural Hardware; an ASSA ABLOY Group company.
e. Falcon Lock; an Ingersoll-Rand company.
f. Medeco Security Locks, Inc.; an ASSA ABLOY Group company.
g. SARGENT Manufacturing Company; an ASSA ABLOY Group company.
h. Schlage Commercial Lock Division; an Ingersoll-Rand company.
i. Yale Security Inc.; an ASSA ABLOY Group company.

B. Standard Lock Cylinders: BHMA A156.5; Grade 1; permanent cores that are interchangeable; face finished to match lockset.

C. Construction Master Keys: Provide cylinders with feature that permits voiding of construction keys without cylinder removal. Provide 10 construction master keys.

D. Construction Cores: Provide construction cores that are replaceable by permanent cores. Provide 10 construction master keys.

2.11 KEYING

A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, Appendix A. Incorporate decisions made in keying conference.

1. Grand Master Key System: Change keys, a master key, and a grand master key operate cylinders.

B. Keys: Nickel silver.

1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:

a. Notation: "DO NOT DUPLICATE."

2. Quantity: In addition to one extra key blank for each lock, provide the following:

a. Cylinder Change Keys: Three.
b. Master Keys: Five.
c. Grand Master Keys: Five.

2.12 KEY CONTROL SYSTEM

A. Key Control Cabinet: BHMA A156.5; metal cabinet with baked-enamel finish; containing key-holding hooks, labels, 2 sets of key tags with self-locking key holders, key-gathering envelopes, and temporary and permanent markers; with key capacity of 150 percent of the number of locks.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. American Key Boxes and Cabinets.
b. GE Security, Inc.

c. HPC, Inc.
d. Lund Equipment Co., Inc.
e. MMF Industries.
f. Tri Palm International.

2. Multiple-Drawer Cabinet: Cabinet with drawers equipped with key-holding panels and key envelope storage, and progressive-type ball-bearing suspension slides. Include single cylinder lock to lock all drawers.

2.13 ACCESSORIES FOR PAIRS OF DOORS

A. Coordinators: BHMA A156.3; consisting of active-leaf, hold-open lever and inactive-leaf release trigger; fabricated from steel with nylon-coated strike plates; with built-in, adjustable safety release.

B. Carry-Open Bars: BHMA A156.3; prevent the inactive leaf from opening before the active leaf; provide polished brass or bronze carry-open bars with strike plate for inactive leaves of pairs of doors unless automatic or self-latching bolts are used.

C. Astragals: BHMA A156.22.

2.14 SURFACE CLOSERS

A. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Arrow USA; an ASSA ABLOY Group company.
b. Corbin Russwin Architectural Hardware; an ASSA ABLOY Group company.
c. DORMA Architectural Hardware; Member of The DORMA Group North America.
d. Dor-O-Matic; an Ingersoll-Rand company.
e. K2 Commercial Hardware; a Black & Decker Corp. company.
f. LCN Closers; an Ingersoll-Rand company.
g. Norton Door Controls; an ASSA ABLOY Group company.
h. Rixson Specialty Door Controls; an ASSA ABLOY Group company.
i. SARGENT Manufacturing Company; an ASSA ABLOY Group company.
j. Yale Security Inc.; an ASSA ABLOY Group company.

2.15 CONCEALED CLOSERS

A. Concealed Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves. Comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. DORMA Architectural Hardware; Member of The DORMA Group North America.
b. LCN Closers; an Ingersoll-Rand company.
c. Norton Door Controls; an ASSA ABLOY Group company.
d. Rixson Specialty Door Controls; an ASSA ABLOY Group company.
e. SARGENT Manufacturing Company; an ASSA ABLOY Group company.

2.16 MECHANICAL STOPS AND HOLDERS

A. Wall- and Floor-Mounted Stops: BHMA A156.16; polished cast brass, bronze, or aluminum base metal.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Architectural Builders Hardware Mfg., Inc.
b. Baldwin Hardware Corporation.
c. Burns Manufacturing Incorporated.
d. Cal-Royal Products, Inc.
e. Don-Jo Mfg., Inc.
f. Door Controls International, Inc.
g. Hager Companies.
h. Hiawatha, Inc.
i. IVES Hardware; an Ingersoll-Rand company.
j. Rockwood Manufacturing Company.
k. Stanley Commercial Hardware; Div. of The Stanley Works.
l. Trimco.

2.17 OVERHEAD STOPS AND HOLDERS

A. Overhead Stops and Holders: BHMA A156.8.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Architectural Builders Hardware Mfg., Inc.
b. Glynn-Johnson; an Ingersoll-Rand company.
c. Rockwood Manufacturing Company.
d. SARGENT Manufacturing Company; an ASSA ABLOY Group company.

2.18 DOOR GASKETING

A. Door Gasketing: BHMA A156.22; air leakage not to exceed 0.50 cfm per foot of crack length for gasketing other than for smoke control, as tested according to ASTM E 283; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Hager Companies.
b. M-D Building Products, Inc.
c. National Guard Products.
d. Pemko Manufacturing Co.; an ASSA ABLOY Group company.
e. Reese Enterprises, Inc.
f. Sealeze; a unit of Jason Incorporated.
g. Zero International.

2.19 THRESHOLDS

A. Thresholds: BHMA A156.21; fabricated to full width of opening indicated.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Hager Companies.
b. M-D Building Products, Inc.
c. National Guard Products.
d. Pemko Manufacturing Co.; an ASSA ABLOY Group company.
e. Reese Enterprises, Inc.
f. Rixson Specialty Door Controls; an ASSA ABLOY Group company.
g. Sealeze; a unit of Jason Incorporated.
h. Zero International.

2.20 METAL PROTECTIVE TRIM UNITS

A. Metal Protective Trim Units: BHMA A156.6; fabricated from 0.050-inch- thick stainless steel; with manufacturer's standard machine or self-tapping screw fasteners.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

    a. Baldwin Hardware Corporation.
    b. Burns Manufacturing Incorporated.
    c. Don-Jo Mfg., Inc.
    d. Hiawatha, Inc.
    e. IPC Door and Wall Protection Systems, Inc.; Div. of InPro Corporation.
    f. IVES Hardware; an Ingersoll-Rand company.
    g. Pawling Corporation.
    h. Rockwood Manufacturing Company.
    i. Trimco.

2.21 FABRICATION

A. Base Metals: Produce door hardware units of base metal indicated, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18.

B. Fasteners: Provide door hardware manufactured to comply with published templates prepared for machine, wood, and sheet metal screws. Provide screws that comply with commercially recognized industry standards for application intended, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.

1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.
2. Fire-Rated Applications:

    a. Wood or Machine Screws: For the following:

        1) Hinges mortised to doors or frames.
        2) Strike plates to frames.
        3) Closers to doors and frames.

    b. Steel Through Bolts: For the following unless door blocking is provided:

        1) Surface hinges to doors.
        2) Closers to doors and frames.
        3) Surface-mounted exit devices.

3. Spacers or Sex Bolts: For through bolting of hollow-metal doors.
4. Fasteners for Wood Doors: Comply with requirements in DHI WDHS.2, "Recommended Fasteners for Wood Doors."

5. Gasketing Fasteners: Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.

2.22 FINISHES

A. Provide finishes complying with BHMA A156.18 as indicated in door hardware schedule.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.

B. Wood Doors: Comply with DHI WDHS.5 "Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors."

3.3 INSTALLATION

A. Mounting Heights: Mount door hardware units at heights to comply with the following unless otherwise indicated or required to comply with governing regulations.

1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
2. Custom Steel Doors and Frames: HMMA 831.
3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."

B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing. Do not install surface-mounted items until finishes have been completed on substrates involved.

1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

C. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than the number recommended by manufacturer for application indicated or one hinge for every 30 inches of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.

D. Intermediate Offset Pivots: Where offset pivots are indicated, provide intermediate offset pivots in quantities indicated in door hardware schedule but not fewer than one intermediate offset pivot per door and one additional intermediate offset pivot for every 30 inches of door height greater than 90 inches.

E. Lock Cylinders: Install construction cores to secure building and areas during construction period.

1. Replace construction cores with permanent cores as directed by Owner.
2. Furnish permanent cores to Owner for installation.

F. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.

G. Boxed Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings. Verify location with Architect.

1. Configuration: Provide least number of power supplies required to adequately serve doors with electrified door hardware.

H. Thresholds: Set thresholds for exterior doors and other doors indicated in full bed of sealant complying with requirements specified in Section 079200 "Joint Sealants."

I. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they will impede traffic.

J. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.

K. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.

L. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.4 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

1. Spring Hinges: Adjust to achieve positive latching when door is allowed to close freely from an open position of 30 degrees.
2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

B. Occupancy Adjustment: Approximately six months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors, door hardware, and electrified door hardware.

3.5 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items as necessary to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

3.6 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Refer to Section 017900 "Demonstration and Training."

3.7 DOOR HARDWARE SCHEDULE

A. Hardware shown is to establish quality level, approved equals are allowed.

HW 1 EXTERIOR PAIR DOOR Type "A" NON FIRE RATED, NON STC RATED
DOORS: 1A101A, 2C261

Qty.	Item	MFG	Product	Finish
2 EA	CONTINUOUS HINGE	IVS	224HD-12-24 x 1/2" STEEL SELF TAPPING SCREWS 5/16" CLEARANCE REQUIRED IN HINGE SIDE JAMB AND STILE.	AL
1 EA	CONCEALED VERTICAL EXIT DEVICE IN INACTIVE DOOR LEAF	VON	GRADE 1, TYPE 8, FYNCTION 01 9847-EO x HEX KEY DOGGING	630

1 EA	LEVER DUMMY TRIM		996L-DT-CV	
1 EA	OVERHEAD DOOR STOP FOR AUTO EQUALIZER INSTALLED DOOR.	GJ	CO1541 104S	630
1 EA	CLOSER	LCN	FOR DOUBLE DOOR BY SECURITY ACCESS CONTROL CONTRACTOR	
1EA	CONCEALED VERTICAL EXIT DEVICE IN ACTIVE DOOR LEAF	VON	GRADE 1, TYPE 8, FYNCTION 08 9847L x 996L(6)-R&V x HEX KEY DOGGING	630
1 EA	RIM CYLINDER	FAL	CYLINDER WITH IC CORE C953626H7(C607CCA) x C607-A-MK x #008876-002 (3/8") 626	626
1 EA	AUTO EQUALIZER	LCN	AUTO EQUALIZER FOR EXT 4822	689
1 EA	DROP PLATE	LCN	4820-18G	689
2 EA	ADA PUSH BUTTON ON EXTERIOR BOLLARD AND INTERIOR WALL	LCN	RF ACTUATOR, 8310-3856WS	
1 EA	RF RECEIVER	LCN	8310-865	
1 EA	CONTROL BOX	LCN	7981ES 1/4AMP OUTPUT 50'MAX	
1 EA	TUBING	LCN	PNEUMATIC TUBING 925-50’	
1 EA	COMPRESSOR FOR AUTO EQUALIZER	LCN	922	
1 SET	WEATHERSTRIPPING		BRISTLED PERIMETER SEAL INTEGRATED DOOR STOP BY DOOR MFR	
1 SET	ASTRAGAL	NGP	SPLIT TYPE ASTRAGAL 9200A X 84”	AL
2 EA	NYLON BRUSH SWEEPS	NGP	C627A	AL
1 EA	THRESHOLD	NGP	LATCHING PANIC EXIT SADDLE TYPE 869N X 72	AL

OPERATION:
EXTERIOR AND INTERIOR RF RECEIVER/ACTUATOR OPENS ACTIVE DOOR LEAF WHEN THE ACTIVE DOOR LEAF IS DOGGED BY HEX KEY.
AUTO EQUALIZER ON ACTIVE DOOR LEAF CAN BE USED AS NORMAL DOOR CLOSER ALWAYS.

HW-1A EXTERIOR PAIR DOOR TYPE “A”, NON FIRE RATED, NON STC RATED
DOOR: 1A101B

Qty.	Item	MFG	Product	Finish
2 EA	CONTINUOUS HINGES	IVS	224HD-12-24 x 1/2" STEEL SELF TAPPING SCREWS 5/16" CLEARANCE REQUIRED IN HINGE SIDE JAMB AND STILE.	
1 EA	CONCEALED VERTICAL EXIT DEVICE IN INACTIVE DOOR LEAF	VON	GRADE 1, TYPE 8, FYNCTION 01 9847-EO x HEX KEY DOGGING	630
1 EA	LEVER DUMMY TRIM		996L-DT-CV	
2 EA	CLOSER	LCN	C02021, 411-SCUSH	689
I EA	CONCEALED VERTICAL	VON	GRADE 1, TYPE 8, FYNCTION 08	630

	EXIT DEVICE IN ACTIVE DOOR LEAF		9847L x 996L(6)-R&V x HEX KEY DOGGING	
1 EA	RIM CYLINDER	FAL	CYLINDER WITH IC CORE C953626H7(C607CCA) x C607-A-MK x #008876-002 (3/8")	626
1 SET	WEATHERSTRIPPING		BRISTLED PERIMETER SEAL INTEGRATED DOOR STOP BY DOOR MFR	
1 SET	ASTRAGAL	NGP	SPLIT TYPE ASTRAGAL 9600A X 84”	AL
2 EA	NYLON BRUSH SWEEPS	NGP	C627A	AL
1 EA	THRESHOLD	NGP	LATCHING PANIC EXIT SADDLE TYPE	AL

HW 2 EXTERIOR x A PAIR DOOR Type "D", NON FIRE RATED, NON STC RATED (MECH)
DOORS: 1B142A, 1B142B, 1B143

Qty.	Item	MFG	Product	Finish
2 EA	CONTINUOUS HINGES	IVS	224HD-12-24 x 1/2" STEEL SELF TAPPING SCREWS 5/16" CLEARANCE REQUIRED IN HINGE SIDE JAMB AND STILE.	
1 SET	CONSTANT LATCHING FLUSH BOLT	IVS	ANSI A156.3 TYPE 27 FOR HMD FB51P	626
1 EA	LOCKSET	SCH	F86, ND80HD7-RHO	630
1 EA	IC CORE	FAL	C607-A	626
1 EA	CLOSER	LCN	C02021, 4111-SCUSH	689
1 SET	WEATHERSTRIPPING	NGP	BRISTLED PERIMETER SEAL INTEGRATED DOOR STOP BY DOOR MFR	NGP
1 EA	ASTRAGAL	NGP	OVERLAPPING TYPE 139A x 84"	AL
1 EA	THRESHOLD	NGP	ADA COMPLIANT BUMPER THRESHOLD 896N X 72”	AL
2 EA	NYLON BRUSH DOOR SHOW FOR RAIN PROOF	NGP	C627A x 36"	AL
1 EA	RAINDRIP	NGP	DOOR WIDTH + 4", 16A-76”	AL

HW 3 EXTERIOR PAIR DOOR Type "D", NON FIRE RATED, NON STC RATED (MECH)
DOOR: 2DG21B

Qty.	Item	MFG	Product	Finish
2 EA	CONTINUOUS HINGES	IVS	224HD-12-24 x 1/2" STEEL SELF TAPPING SCREWS 5/16" CLEARANCE REQUIRED IN HINGE SIDE JAMB AND STILE.	
1 SET	CONSTANT LATCHING FLUSH BOLTS	IVS	ANSI A156.3 TYPE 27 FOR HMD FB51P	630
1 EA	CONCEALED VERTICAL EXIT DEVICE	VON	GRADE 1, TYPE 8, FYNCTION 08 9847L x 996L(6)-R&V	630
1 EA	RIM CYLINDER	FAL	CYLINDER WITH IC CORE C953626H7(C607CCA) x C607-A-MK x	626

			#008876-002 (3/8") 626	
1 EA	CLOSER	LCN	C02021, 4111-SCUSH	689
1 SET	WEATHERSTRIPPING	NGP	BRISTLED PERIMETER SEAL INTEGRATED DOOR STOP BY DOOR MFR+	CLEAR
1 SET	ASTRAGAL	NGP	SPLIT TYPE ASTRAGAL 9600A X 84”	AL
1 EA	THRESHOLD	NGP	ADA COMPLIANT BUMPER THRESHOLD 896N X 84”	AL
2 EA	NYLON BRUSH DOOR SHOE FOR RAIN PROOF	NGP	C627A X 42”	AL
1 EA	RAINDRIP	NGP	DOOR WIDTH + 4”	AL

HW 4 INTERIOR PAIR DOOR Type "C, D, E", NON FIRE RATED, NON STC RATED (EXIT DEVICE REQUIRED RM)
DOORS: 1A116, 2D282B, 3A326, 3C369, 3C370

Qty.	Item	MFG	Product	Finish
6 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 SET	CONSTANT LATCHING FLUSH BOLT	IVS	ANSI A156.3 TYPE 27 FOR SCWD, FB61P	630
1 EA	DUSTPROOF STRIKE	IVS	L14021, DP2	626
1 EA	CONCEALED VERTICAL EXIT DEVICE	VON	GRADE 1, TYPE 7, FYNCTION 08, 9847WDC-L x 996L(6)-R&V	630
1 EA	RIM CYLINDER	FAL	CYLINDER WITH IC CORE, C953626H7(C607CCA) x C607-A-MK x #008876-002 (3/8”) 626	626
2 EA	DOOR CLOSER	LCN	C02021, 1461-FC-SCUSH	689
2 EA	KICK PLATE	IVS	J102, 8400 12” x 34”(9 EA), 12” x 22”(1 EA)	630
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMPS, 5050CL x 20’	CLEAR
1 SET	ASTRAGAL	NGP	SPLIT TYPE ASTRAGAL, 9600A x 84”	AL

HW 5 INTERIOR PAIR DOOR Type "D", NON FIRE RATED, STC-48 (MECH)
DOORS: 2B244, 3A346

Qty.	Item	MFG	Product	Finish
1 EA	LOCKSET	SCH	F86, ND80HD7-RHO W/ SPECIAL BACKSET AS REQUIRED	630
1 EA	IC CORE	FAL	IC CORE, C607-A	626
	BALANCE OF HARDWARE BY DOOR MANUFACTURER			

HW 6 INTERIOR PAIR DOOR Type "D", NON FIRE RATED, STC-48 (MECH)
DOOR: 1B134

Qty.	Item	MFG	Product	Finish
1 EA	LOCKSET	SCH	F86, ND80HD7-RHO W/ SPECIAL BACKSET AS REQUIRED	630
1 EA	IC CORE	FAL	IC CORE, C607-A	626
	BALANCE OF HARDWARE BY DOOR MANUFACTURER			

HW 6-A INTERIOR PAIR DOOR Type "D, F", NON FIRE RATED, NON STC (MECH)

DOORS: 1A117, 2A203, 2A233, 2D285, 3A310

Qty.	Item	MFG	Product	Finish
6 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 SET	CONSTANT LATCHING FLUSH BOLTS	IVS	ANSI A156.3 TYPE 27 FOR SCWD, FB61P	630
1 EA	LOCKSET	SCH	F86, ND80HD7-RHO	630
1 EA	IC CORE	FAL	IC CORE, C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-Rw/PA	689
1 EA	KICK PLATE	IVS	J102, 8400 12” x 35”	630
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 20'	CLEAR
1 EA	ASTRAGAL		Z-TYPE OVERLAPPING BY DOOR MFG	
2 EA	WALL STOP OR FLOOR STOP	IVS	WALL STOP OF L52251 OR FLOOR STOP OF L12121, 409 1/2 630 OR FS448 626	626

HW 7 INTERIOR PAIR DOOR Type "A", NON FIRE RATED, NON STC RATED (RECEPTION)

DOOR: 1B145

Qty.	Item	MFG	Product	Finish
6 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 EA	EXIT DEVICE	VON	GRADE 1, TYPE 8, FYNCTION 01, 9847WDC-EO	630
1 EA	PULL	VON	DUMMY TRIM FOR INACTIVE LEAF, 996L(6)-DT	626
1 EA	EXIT DEVICE	VON	GRADE 1, TYPE 8, FYNCTION 08, 9847WDC-L x 996L(6)-R&V	630
1 EA	RIM CYLINDER	FAL	CYLINDER WITH IC CORE, C953626H7(C607CCA) x C607-A-MK x #008876-002 (3/8") 626	626
2 EA	DOOR CLOSER	LCN	C02021, 1461-FC-SCUSH	689
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 20'	CLEAR
1 SET	ASTRAGAL	NGP	SPLIT TYPE ASTRAGAL, 9600A x 84”	AL

HW 8 INTERIOR UNEVEN PAIR DOOR Type "E", NON FIRE RATED, NON STC RATED (CORR/CORR)

DOOR: 3A302

Qty.	Item	MFG	Product	Finish
6 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 SET	CONSTANT LATCHING FLUSH BOLTS	IVS	ANSI A156.3 TYPE 27 FOR SCWD, FB61P	630
1 EA	DUSTPROOF STRIKE	IVS	L14021, DP2	626
1 EA	LOCKSET	SCH	F75, ND10S-RHO-626	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-SCUSH	689
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 20’	CLEAR
1 EA	ASTRAGAL		Z-TYPE OVERLAPPING, BY DOOR MFG	

1 EA	KICK PLATE	IVS	J102, 8400 12” x 35”	630

HW 9 INTERIOR PAIR DOOR Type "C, E, F", NON FIRE RATED, NON STC RATED (OFFICE)
DOORS: 1B144A, 3A329, 3D382, 3D388A

Qty.	Item	MFG	Product	Finish
6 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 SET	CONSTANT LATCHING FLUSH BOLTS	IVS	ANSI A156.3 TYPE 27 FOR SCWD, FB61P	630
1 EA	DUSTPROOF STRIKE	IVS	L14021, DP2	626
1 EA	LOCKSET	SCH	F82, ND50HD7-RHO	626
1 EA	IC CORE	FAL	IC CORE, C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-Rw/PA	689
1 EA	KICK PLATE	IVS	J102, 8400 12” x 35”	630
1 EA	ASTRAGAL		Z-TYPE OVERLAPPING, BY DOOR MFG	
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 20’	CLEAR
2 EA	WALL STOP OR FLOOR STOP	IVS	WALL STOP OF L52251 OR FLOOR STOP OF L12121, 409 1/2 630 OR FS448 626	626

HW 10 INTERIOR SINGLE DOOR Type "K", NON FIRE RATED, NON STC RATED (BREAK)
DOORS: 1A119, 1B151, 1C102, 2A214, 2B245, 3B361, 3D394

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 EA	LOCKSET	SCH	F75, ND10S-RHO-626	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-Rw/PA	689
1 EA	KICK PLATE	IVS	J102, 8400 12" x 34"	630
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 17'	CLEAR
1 EA	WALL STOP OR FLOOR STOP	IVS	WALL STOP OF L52251 OR FLOOR STOP OF L12121, 409 1/2 630 OR FS448 626	626

HW 11 INTERIOR SINGLE DOOR Type "J", NON FIRE RATED, NON STC RATED (MENS)
DOORS: 1A112, 1A113, 1B136, 1B137, 2A224, 2A225, 2B238, 2B239, 3A331, 3A332, 3B348, 3B349, 3D392A, 3D393A

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 EA	PUSH PLATE	IVS	J301 6” x 16”, 8200-US32D 6” x 16”	630
1 EA	PULL PLATE	IVS	J405 6” x 16”, 8302-8US32D 6” x 16”	630
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-Rw/PA	689
1 EA	KICK PLATE	IVS	J102, 8400 12" x 34"	630
1 EA	MOP PLATE	IVS	J102, 8400 12” x 35”	630
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 17’	CLEAR
1 EA	WALL STOP OR FLOOR	IVS	WALL STOP OF L52251 OR FLOOR	626

	STOP		STOP OF L12121, 409 1/2 630 OR FS448 626	
1 EA	THRESHOLD	NGP	ADA COMPLIANT BUMPER THRESHOLD, 896N x 36”	AL

HW 12 INTERIOR x A SINGLE DOOR Type "J", NON FIRE RATED, NON STC RATED (REST)
DOORS: 1C103, 1C104, 3C367

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 EA	LOCKSET	SCH	F76, ND40S-RHO-626	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-Rw/PA	689
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 17’	CLEAR
1 EA	KICK PLATE	IVS	J102, 8400 12” x 34”	630
1 EA	MOP PLATE	IVS	J102, 8400 12” x 35”	630
1 EA	WALL STOP OR FLOOR STOP	IVS	WALL STOP OF L52251 OR FLOOR STOP OF L12121, 409 1/2 630 OR FS448 626	626
1 EA	THRESHOLD	NGP	ADA COMPLIANT BUMPER THRESHOLD, 896N x 36”	AL

HW 13 INTERIOR SINGLE DOOR Type "J", NON FIRE RATED, NON STC RATED (JAN)
DOORS: 1B135, 2B237, 3B347

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5111 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 EA	LOCKSET	SCH	F82, ND50HD7-RHO	626
1 EA	IC CORE	FAL	IC CORE, C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-SCUSH	689
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 17’	CLEAR
1 EA	KICK PLATE	IVS	J102, 8400 12” x 34”	630
1 EA	MOP PLATE	IVS	J102, 8400 12” x 35”	630
1 EA	THRESHOLD	NGP	ADA COMPLIANT BUMPER THRESHOLD, 896N x 36”	AL

HW 13A INTERIOR SINGLE DOOR Type "J", NON FIRE RATED, NON STC RATED (JAN)
DOOR: 3D392C

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5x4.5 NRP	630
1 EA	LOCKSET	SCH	F82, ND50HD7-RHO	626
1 EA	IC CORE	FAL	IC CORE, C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-Rw/PA	689
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL X 17’	CLEAR
1 EA	KICK PLATE	IVS	J102, 8400 12” x 34”	630
1 EA	MOP PLATE	IVS	J102, 8400 12” x 35”	630
1 EA	WALL STOP OR FLOOR STOP	IVS	409 1/2 630 OR FS448 626	626
1 EA	THRESHOLD	NGP	ADA COMPLIANT BUMPER	AL

			THRESHOLD, 896N x 36”	

HW 14 INTERIOR SINGLE DOOR Type "J", NON FIRE RATED, NON STC RATED (MECH)
DOORS: 2B243, 3B353

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5x4.5 NRP	630
1 EA	LOCKSET	SCH	F86, ND80HD7-RHO	630
1 EA	IC CORE	FAL	IC CORE, C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-Rw/PA	689
1 SET	PERIMETER GASKETING	NGP	SOLID AL W/SEAL, 700NA x 36”(1) x 84”(2)	AL
1 EA	AUTO DOOR BOTTOM	NGP	MORTISE TYPE, 422N x 36”	
1 EA	WALL STOP OR FLOOR STOP	IVS	WALL STOP OF L52251 OR FLOOR STOP OF L12121, 409 1/2 630 OR FS448 626	626
1 EA	THRESHOLD	NGP	ADA COMPLIANT BUMPER THRESHOLD, 896N x 36”	AL

HW 15 EXTERIOR SINGLE DOOR Type "J", NON FIRE RATED, NON STC RATED, (STORE)
DOORS: 1B141, 2DG21A, 2DG21C, 2DG21D, RF02, RF03

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1HW 4.5 x 4.5 NRP	630
1 EA	LOCKSET	SCH	F86, ND80HD7-RHO	630
1 EA	IC CORE	FAL	IC CORE, C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 4111- SCUSH	689
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 17’	CLEAR
1 EA	NYLON BRUSH DOOR SHOE FOR RAIN PROOF	NGP	C627A x 36”	AL
1 EA	THRESHOLD	NGP	ADA COMPLIANT BUMPER THRESHOLD, 896N x 36”	AL
1 EA	RAINDRIP	NGP	DOOR WIDTH + 4”, 16A-40”	AL

HW 16 INTERIOR SINGLE DOOR Type "J, H", NON FIRE RATED, NON STC RATED, (STORE)
DOORS: 1B153, 3A334A, 3C363A, 3C375A, 3D389C, 3D389D

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 EA	LOCKSET	SCH	F86, ND80HD7-RHO	630
1 EA	IC CORE	FAL	IC CORE, C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-SCUSH	689
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 17’	CLEAR

HW 16A INTERIOR SINGLE DOOR Type "J, H", NON FIRE RATED, NON STC RATED

(STORE)
DOORS: 1A130B, 1B148, 1B149, 1B150, 1C105, 1C108B, 2A222, 2A231, 2B248, 2B252, 2B258, 2B260, 2C264, 2C276, 2D299, 3A303, 3A312, 3A324, 3A330, 3A342, 3B355, 3D384B, 3D391A, 3D399

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5x4.5 NRP	630
1 EA	LOCKSET	SCH	F86, ND80HD7-RHO	630
1 EA	IC CORE	FAL	IC CORE, C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-Rw/PA	689
1 EA	WALL STOP OR FLOOR STOP	IVS	WALL STOP OF L52251 OR FLOOR STOP OF L12121, 409 ½ 630 OR FS448 626	626
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 17’	CLEAR

HW 17 EXTERIOR PAIR DOOR Type "D", NON FIRE RATED, NON STC RATED, (STORE)
DOOR: 2DG22

Qty.	Item	MFG	Product	Finish
6 EA	HINGES	IVS	A5111 5X4.5 NRP, 5BB1HW 5 x 4.5 NRP	630
1 SET	CONSTANT LATCHING FLUSH BOLTS	IVS	ANSI A156.3 TYPE 27 FOR HMD, FB51P	630
1 EA	LOCKSET	SCH	F86, ND80HD7-RHO	630
1 EA	IC CORE	FAL	IC CORE, C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 4111-SCUSH	689
1 SET	WEATHERSTRIPPING		BRISTLED PERIMETER SEAL INTEGRATED DOOR STOP BY DOOR MFR	
1 EA	ASTRAGAL	NGP	139A X 84”	AL
2 EA	NYLON BRUSH DOOR SHOE FOR RAIN PROOF	NGP	C627A x 42”	AL
1 EA	THRESHOLD	NGP	ADA COMPLIANT BUMPER THRESHOLD, 896N x 84”	AL
1 EA	RAINDRIP	NGP	DOOR WIDTH + 4”, 16A-88”	AL

HW 18 EXTERIOR SINGLE DOOR Type "J", NON FIRE RATED, NON STC RATED (STORE)
DOOR: RF01

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5111 4.5X4.5 NRP, 5BB1HW 4.5 x 4.5 NRP	630
1 EA	LOCKSET	SCH	F87, ND82HD7-RHO	630
2 EA	IC CORE	FAL	IC CORE, C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 4111-SCUSH	689
1 SET	WEATHERSTRIPPING		BRISTLED PERIMETER SEAL INTEGRATED DOOR STOP BY DOOR MFR	
1 EA	NYLON BRUSH DOOR SHOE FOR RAIN PROOF	NGP	C627A x 36”	AL

1 EA	THRESHOLD	NGP	ADA COMPLIANT BUMPER THRESHOLD, 896N x 36"	AL
1 EA	RAINDRIP	NGP	DOOR WIDTH + 4", 16A-40"	AL

HW 19 INTERIOR SINGLE DOOR Type "G, H, J", NON FIRE RATED, NON STC RATED (OFFICE)

DOORS: 1A103B, 1B144B, 1C101B, 2D282A, 3A315A, 3C371, 3C378, 3C389B

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 EA	LOCKSET	SCH	F82, ND50HD7-RHO	626
1 EA	IC CORE	FAL	IC CORE, C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-SCUSH	689
1 EA	KICK PLATE	IVS	J102, 8400 12" x 34"	630
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 17'	CLEAR

HW 19A INTERIOR SINGLE DOOR Type "G, H, J", NON FIRE RATED, NON STC RATED (OFFICE)

DOORS: 1A106, 1A107, 1A108, 1A109, 1A1101A111, 1A115, 1A118, 1A120, 1A122, 1A123, 1A124, 1A125, 1A126, 1A129, 1B140, 1B152, 1B154, 1B155, 1B156, 1B157, 1B158, 1C106, 1C107, 2A202B, 2A204, 2A205, 2A206, 2A211, 2A212, 2A213, 2A216, 2A218, 2A219, 2A220, 2A221, 2A223, 2A228, 2A229, 2A230, 2A234, 2A235A, 2A235B, 2B242, 2B247, 2B249, 2B253, 2B253, 2B254, 2B255, 2B256, 2B257, 2B259, 2C265, 2C266, 2C267M 2C268, 2C271, 2C272, 2C272, 2C273, 2C274, 2C275, 2C277, 2D280, 2D281, 2D284, 2D287, 2D290, 2D291, 2D292, 2D293, 2D293, 2D295, 2D296, 2D297, 2D298, 3A304, 3A305, 3A306, 3A307, 3A308, 3A309, 3A313, 3A314, 3A315B, 3A316, 3A317, 3A318, 3A319, 3A320, 3A321, 3A322, 3A323, 3A325 , 3A327, 3A334, 3A335, 3A336, 3A337, 3A338, 3A339, 3A340, 3A341, 3A343, 3A344, 3A345, 3B352, 3B354, 3B356, 3B356, 3B358, 3B359, 3B360, 3B364, 3C364, 3C365, 3C368, 3C373, 3C373A, 3C375, 3C376, 3C377, 3C379, 3C380, 3C380A, 3D384A, 3D384C, 3D385A, 3D385B, 3D385C, 3D386A, 3D386B, 3D386C, 3D387B, 3D387C, 3D390, 3D395, 3D396, 3D397, 3D398

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 EA	LOCKSET	SCH	F82, ND50HD7-RHO	626
1 EA	IC CORE	FAL	IC CORE, C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-Rw/PA	689
1 EA	KICK PLATE	IVS	J102, 8400 12" x 34"	630
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 17'	CLEAR
1 EA	WALL STOP OR FLOOR STOP	IVS	WALL STOP OF L52251 OR FLOOR STOP OF L12121, 409 1/2 630 OR FS448 626	626

HW 20 INTERIOR PAIR DOOR Type "B, E", NON FIRE RATED, NON STC RATED, ONLINE

DOORS: 1B133A, 2A201, 2D283A, 3B350A, 3D383A

Qty.	Item	MFG	Product	Finish
6 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5	630

			NRP	
1 SET	CONSTANT LATCHING FLUSH BOLTS	IVS	ANSI A156.3 TYPE 27, FB61P	630
1 EA	DUSTPROOF STRIKE	IVS	L14021, DP2	626
1 EA	ELECTRIC TRANSFER	VON	EPT10	SP28
1 EA	CONCEALED VERTICAL ROD ALARMED EXIT DEVICE	VON	GRADE 1, CONCEALED VERTICAL ROD ALARMED EXIT DEVICE W/ 15 MIN. DELAY ACTION W/DECAL IN AND OUT SIDE W/INTERNAL HORN, CX9847WDC-L-BE	630
2 EA	DOOR CLOSER	LCN	C02021, 1461-FC-SCUSH	689
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 20’	CLEAR
2 EA	KICK PLATE	IVS	J102, 8400 12” x 34”	630
1 SET	ASTRAGAL	NGP	SPLIT TYPE ASTRAGAL, 9600A x 84”	AL
1 EA	POWER SUPPLY FOR ALARMED EXIT DEVICE	VON	PS902-BBK-KL	
1 EA	POWER SUPPLY FOR CARD READER	VON	PS902-BBK-KL	
1 EA	CARD READER	SCH	MULTI-TECHNOLOGY READER - 125kHz PROXIMITY AND 13.56 MHz CONTACTLESS SMART CARD TECHNOLOGY IN ONE READER, SXF2100-PIV	
1 EA	CARD READER INTERFACE	SCH	INTERFACING BETWEEN CARD READER AND SRCNX, SRINX	
2 EA	DOOR POSITION SWITCH	SECURITRON	FOR MONITORING DOOR, DPS-W-GY	GRAY

OPERATION:
IF PUSH BAR OF ALARMED EXIT DEVICE BE PUSHED TO OPEN THE DOOR WITHOUT PRESENTING A RIGHT CARD KEY TO THE WALL MOUNT CARD READER, IT WILL MAKE ALARM SOUND FOR 15 MINUTES AND THEN, THE PUSH BAR CAN RETRACT THE LATCH. IF A RIGHT CARD KEY IS PRESENTED TO THE WALL MOUNT CARD READER, THE ALARM OF EXIT DEVICE IS SHUNTED AND THE EXIT DEVICE FUNCTIONS NORMAL.

HW 21 INTERIOR PAIR DOOR Type "C, D", NON FIRE RATED, NON STC RATED, ONLINE

DOORS: 2A235, 2B250, 2D286, 3D387A

Qty.	Item	MFG	Product	Finish
6 EA	HINGES	IVS	A5111 4.5X4.5 NRP, 5BB1HW 4.5 x 4.5	630

			NRP	
1 SET	CONSTANT LATCHING FLUSH BOLTS	IVS	ANSI A156.3 TYPE 27 FOR SCWD, FB61P	630
1 EA	DUSTPROOF STRIKE	IVS	L14021, DP2	626
1 EA	ELECTRIC TRANSFER	VON	TEN 24 GAUGE WIRES, EPT10	SP28
1 EA	ONLINE LOCK (CAC ENABLED)	SCH	WIRED ACCESS CONTROL AND FIPS201 COMPLIANT, AD-301-993S-70-FMK-RHO-626-BD-1-3/4"(RX OPTION INCLUDING) FOR WIRED ACCESS CONTROL AND FIPS201 COMPLIANT. DOOR POSITION SWITCH	626
1 EA	SURFACE VERTICAL ROD EXIT DEVICE	VON	GRADE 1, TYPE 2, FYNCTION 01 AND WORKING WITH ONLINE LOCK, GRADE 1, TYPE 2, FYNCTION 01 AND WORKING WITH ONLINE LOCK	630
1 EA	IC CORE	FAL	IC CORE FOR OVERRIDING KEY, C607-A	626
2 EA	CLOSER	LCN	C02021, 4111-SCUSH	689
1 RL	PERIMETER SEAL / SILENCER	NGP	HEAD & JAMBS, 5050CL x 20’	CLEAR
1 SET	ASTRAGAL	NGP	SPLIT TYPE ASTRAGAL, 9600A x 84”	AL
1 EA	POWER SUPPLY FOR ELECTRIFIED TRIM	VON	PS902-BBK-KL	

OPERATION:
WHEN RIGHT CARD KEY IS SHOWN TO THE ONLINE LOCK, THE EXIT DEVICE UNLOCKS AND RELOCKS PER PROGRAM SET IN A MAIN CONTROL SERVER OF ACCESS CONTROL SYSTEM.
INSIDE PUSH BAR OF THE EXIT DEVICE IS ALWAYS OPERABLE AND FIRE CODE COMPLIANT.

HW 22 INTERIOR PAIR DOOR Type "A, D", NON FIRE RATED, NON STC RATED, ONLINE

DOORS: 1B133B, 1B147, 3B350B, 3D383D

Qty.	Item	MFG	Product	Finish
6 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1HW 4.5 x 4.5 NRP	630
1 SET	CONSTANT LATCHING FLUSH BOLTS	IVS	ANSI A156.3 TYPE 27 FOR HMD, FB51P	630
1 EA	DUSTPROOF STRIKE	IVS	L14021, DP2	626
1 EA	ELECTRIC TRANSFER	VON	TEN 24 GAUGE WIRES, EPT10	SP28
1 EA	ONLINE LOCK (CAC ENABLED)	SCH	WIRED ACCESS CONTROL AND FIPS201 COMPLIANT, AD-301-993S-70-FMK-RHO-626-BD-1-3/4"(RX OPTION INCLUDING) FOR WIRED ACCESS CONTROL AND FIPS201 COMPLIANT. DOOR POSITION SWITCH	626

1 EA	SURFACE VERTICAL ROD EXIT DEVICE	VON	GRADE 1, TYPE 2, FYNCTION 01 AND WORKING WITH ONLINE LOCK, 9827-EO x 3' (SURFACE VERTICAL ROD EXIT DEVICE AND WORKING WITH ONLINE LOCK)	630
1 EA	IC CORE	FAL	IC CORE FOR OVERRIDING KEY, C607-A	626
2 EA	CLOSER	LCN	C02021, 4111-SCUSH	689
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 20’	CLEAR
1 SET	ASTRAGAL	NGP	SPLIT TYPE ASTRAGAL, 9600A x 84”	AL
1 EA	POWER SUPPLY FOR ELECTRIFIED TRIM OPERATION:	VON	PS902-BBK-FA-KL	

WHEN RIGHT CARD KEY IS SHOWN TO THE ONLINE LOCK, THE EXIT DEVICE UNLOCKS AND RELOCKS PER PROGRAM SET IN A MAIN CONTROL SERVER OF ACCESS CONTROL SYSTEM.
INSIDE PUSH BAR OF THE EXIT DEVICE IS ALWAYS OPERABLE AND FIRE CODE COMPLIANT.

HW 23 INTERIOR SINGLE DOOR Type "J", 60MIN, NON STC RATED (STAIR)
DOORS: 1A114A, 2A226, 3A333

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5111 4.5X4.5 NRP, 5BB1HW 4.5 x 4.5 NRP	630
1 EA	ELECTRIC TRANSFER	VON	TEN 24 GAUGE WIRES, EPT10	SP28
1 EA	ONLINE LOCK (CAC ENABLED)	SCH	WIRED ACCESS CONTROL AND FIPS201 COMPLIANT, AD-301-993R-70-FMK-RHO-626-BD-1-3/4"(RX OPTION INCLUDING) FOR WIRED ACCESS CONTROL AND FIPS201 COMPLIANT. DOOR POSITION SWITCH	626
1 EA	RIM FIRE EXIT DEVICE	VON	GRADE 1, TYPE 1, FUNCTION 01 AND WORKING WITH ONLINE LOCK, 98-F-EO x 3' (RIM TYPE FIRE EXIT DEVICE AND WORKING WITH ONLINE LOCK)	630
1 EA	IC CORE	FAL	IC CORE FOR OVERRIDING KEY, C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-SCUSH	689
1 RL	PERIMTER SEAL / SILENCER	NGP	HEAD & JAMBS, 5050CL x 17’	CLEAR
1 EA	POWER SUPPLY FOR ELECTRIFIED TRIM OPERATION:	VON	PS902-BBK-KL	

WHEN RIGHT CARD KEY IS SHOWN TO THE ONLINE LOCK, THE EXIT DEVICE

UNLOCKS AND RELOCKS PER PROGRAM SET IN A MAIN CONTROL SERVER OF ACCESS CONTROL SYSTEM.
INSIDE PUSH BAR OF THE EXIT DEVICE IS ALWAYS OPERABLE AND FIRE CODE COMPLIANT.

HW 24 EXTERIOR SINGLE DOOR Type "J", NON FIRE RATED, NON STC RATED, ONLINE
DOORS: 2A232, 2D283B

Qty.	Item	MFG	Product	Finish
1 EA	HINGES	IVS	A5111 4.5X4.5 NRP, 5BB1HW 4.5 x 4.5 NRP	630
1 EA	ELECTRIC TRANSFER	VON	TEN 24 GAUGE WIRES, EPT10	SP28
1 EA	ONLINE LOCK (CAC ENABLED)	SCH	WIRED ACCESS CONTROL AND FIPS201 COMPLIANT, AD-301-993R-70-FMK-RHO-626-BD-1-3/4"(RX OPTION INCLUDING) FOR WIRED ACCESS CONTROL AND FIPS201 COMPLIANT. DOOR POSITION SWITCH	626
1 EA	RIM EXIT DEVICE	VON	GRADE 1, TYPE 1, FUNCTION 01 AND WORKING WITH ONLINE LOCK, 98-EO x 3' (RIM TYPE FIRE EXIT DEVICE AND WORKING WITH ONLINE LOCK)	630
1 EA	IC CORE	FAL	IC CORE FOR OVERRING KEY, C607-A	626
1 EA	CLOSER	LCN	C02021, 4111-SCUSH	689
1 EA	WEATHERSTRIPPING		BRISTLED PERIMETER SEAL INTEGRATED DOOR STOP BY DOOR MFR	
1 EA	THRESHOLD	NGP	ADA COMPLIANT BUMPER THRESHOLD, 896N x 36”	AL
1 EA	NYLON BRUSH DOOR SHOE FOR RAIN PROOF	NGP	C627A x 36”	AL
1 EA	RAINDRIP	NGP	DOOR WIDTH + 4”, 16A-40”	AL
1 EA	POWER SUPPLY FOR ELECTRIFIED TRIM	VON	PS902-BBK-KL	

HW 25 EXTERIOR SINGLE DOOR Type "L", NON FIRE RATED, NON STC RATED
DOOR: 1C108A

Qty.	Item	MFG	Product	Finish
1 EA	MORTISE CYLINDER	FAL	1-1/4” CYL W/ IC CORE SUBJECT TO LOCK, C986 x A09897-000-00 x C607-A-MK	626

BALANCE OF HARDWARE BY DOOR SUPPLIER

HW 26 INTERIOR SINGLE DOOR Type "G, H, J", NON FIRE RATED, NON STC RATED (CR)
DOORS: 1A103A, 1A130A, 1A131, 3D388B, 3D389A

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 EA	ELECTRIC TRANSFER	VON	TEN 24 GAUGE WIRES, EPT 10	SP28

1 EA	ONLINE LOCK (CAC ENABLED)	SCH	WIRED ACCESS CONTROL AND FIPS201 COMPLIANT, AD-301-CY-70-FMK-RHO-626-BD-1-3/4"(RX OPTION INCLUDING) FOR WIRED ACCESS CONTROL AND FIPS201 COMPLIANT. DOOR POSITION SWITCH	626
1 EA	IC CORE	FAL	IC CORE C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-SCUSH	689
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 17’	CLEAR
1 EA	POWER SUPPLY FOR ELECTRIC STRIKE	VON	PS902-BBK-KL	

OPERATION:
WHEN RIGHT CARD KEY IS SHOWN TO THE ONLINE LOCK, IT UNLOCKS AND RELOCKS PER PROGRAM SET IN A MAIN CONTROL SERVER OF ACCESS CONTROL SYSTEM.
INSIDE LEVER OF THE ONLINE LOCK IS ALWAYS OPERABLE AND FIRE CODE COMPLIANT.

HW 26A INTERIOR SINGLE DOOR Type "G, H, J", NON FIRE RATED, NON STC RATED (CR)

DOORS: 1B146, 2A202, 2B246, 2C263, 2C269, 2D288, 3D391

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 EA	ELECTRIC TRANSFER	VON	TEN 24 GAUGE WIRES, EPT 10	SP28
1 EA	ONLINE LOCK (CAC ENABLED)	SCH	WIRED ACCESS CONTROL AND FIPS201 COMPLIANT, AD-301-CY-70-FMK-RHO-626-BD-1-3/4"(RX OPTION INCLUDING) FOR WIRED ACCESS CONTROL AND FIPS201 COMPLIANT. DOOR POSITION SWITCH	626
1 EA	IC CORE	FAL	IC CORE C607-A	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-Rw/PA	689
1 RL	PERIMETER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 17’	CLEAR
1 EA	POWER SUPPLY FOR ELECTRIC STRIKE	VON	PS902-BBK-KL	

OPERATION:
WHEN RIGHT CARD KEY IS SHOWN TO THE ONLINE LOCK, IT UNLOCKS AND RELOCKS PER PROGRAM SET IN A MAIN CONTROL SERVER OF ACCESS CONTROL SYSTEM.
INSIDE LEVER OF THE ONLINE LOCK IS ALWAYS OPERABLE AND FIRE CODE COMPLIANT.

HW 27 INTERIOR SINGLE DOOR Type "J", 60MIN FIRE RATED, NON STC RATED (STAIR)

DOORS: 1B139, 2B241, 3B351

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 EA	FIRE EXIT DEVICE	VON	GRADE 1, TYPE 1, FUNCTION 08, 98L-F	630

			x 996L(6)-R&V	
1 EA	RIM CYLINDER	FAL	CYLINDER WITH IC CORE, C953626H7(C607CCA) x C607-A-MK x #008876-002 (3/8") 626	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-SCUSH	689
1 RL	PERIMTER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 17’	CLEAR

HW 28 EXTERIOR SINGLE DOOR Type "J", NON FIRE RATED, NON STC RATED (GPA FACILITY)

DOOR: 1C101A

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A511 4.5X4.5 NRP, 5BB1HW 4.5 x 4.5 NRP	630
1 EA	EXIT DEVICE	VON	GRADE 1, TYPE 1, FUNCTION 08, 98L x 996L(6)-R&V	630
1 EA	RIM CYLINDER	FAL	CYLINDER WITH IC CORE, C953626H7(C607CCA) x C607-A-MK x #008876-002 (3/8”) 626	626
1 EA	DOOR CLOSER	LCN	C02021, 4111-SCUSH	689
1 SET	WEATHERSTRIPPING	NGP	BRISTLED PERIMETER SEAL INTEGRATED DOOR STOP BY DOOR MFR	AL
1 EA	THRESHOLD	NGP	ADA COMPLIANT BUMPER THRESHOLD, 896N x 36”	AL
1 EA	NYLON BRUSH DOOR SHOE FOR RAIN PROOF	NGP	C627A x 36”	AL
1 EA	RAINDRIP	NGP	DOOR WIDTH + 4”, 16A-40”	AL

HW 29 EXTERIOR SINGLE DOOR Type "J", NON FIRE RATED, NON STC RATED (ED W/NO TRIM)

DOOR: 1A114B

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1HW 4.5 x 4.5 NRP	630
1 EA	EXIT DEVICE	VON	GRADE 1, TYPE 1, FUNCTION 01, 98EO	630
1 EA	DOOR CLOSER	LCN	C02021, 4111-SCUSH	689
1 SET	WEATHERSTRIPPING		BRISTLED PERIMETER SEAL INTEGRATED DOOR STOP BY DOOR MFR	
1 EA	THRESHOLD	NGP	ADA COMPLIANT BUMPER THRESHOLD, 896N x 36”	AL
1 EA	NYLON BRUSH DOOR SHOE FOR RAIN PROOF	NGP	C627A x 36”	AL
1 EA	RAINDRIP	NGP	DOOR WIDTH + 4”, 16A-40”	AL

HW 30 INTERIOR SINGLE DOOR Type "J", NON FIRE RATED, NON STC RATED (EXIT TO LOBBY)

DOOR: 2C269A

Qty.	Item	MFG	Product	Finish
3 EA	HINGES	IVS	A5112 4.5X4.5 NRP, 5BB1 4.5 x 4.5 NRP	630
1 EA	EXIT DEVICE	VON	GRADE 1, TYPE 1, FUNCTION 08, 98L x 996L(6)-R&V	630
1 EA	RIM CYLINDER	FAL	CYLINDER WITH IC CORE, C953626H7(C607CCA) x C607-A-MK x #008876-002 (3/8") 626	626
1 EA	DOOR CLOSER	LCN	C02021, 1461-FC-SCUSH	689
1 EA	KICK PLATE	IVS	J102, 8400 12” x 34”	630
1 RL	PERIMTER SEALS / SILENCER	NGP	HEAD & JAMBS, 5050CL x 17’	CLEAR

Note: **ACCESS CONTROL ITEMS REQUIRED IN ADDITION TO COMPLETE THE SYSTEM.**
30 DOOR OPENINGS FOR HARDWARE SET 20, 21, 22, 23, 24 AND 26.

Qty.	Item	MFG	Product	Finish
1 EA	ACCESS CONTROL SYSTEM SERVER	SCH	SERVER, SYSTEM PROCCESSOR, SOFTWARE AND COMMUNICATION INTERFACE MODULE NOT INCLUDING MONITOR, KEYBOARD, E-SENT-SVR-5	
5 EA	READER CONTROLLER	SCH	NEMA 1 RATED ENCLOSURE SUPPORTING 16 READER INTERFACE MODULE, SRCNX	
5 EA	POWER SUPPLY FOR READER CONTROLLER	SCH	POWER SUPPLY INCLUDING BATTERY BACK-UP AND 2 RELAY BOARD FOR CONTROLLING SECURITY LOAD W/ FA, PS902 INCLUDING 900-2Q, 900-BBK	
5 EA	READER INTERFACE	SCH	NEMA 1 RATED ENCLOSURE, 1 READER INTERFACE BOARD CONNECTS TO 1 CREDENTIAL READER WITH 4 UNSUPERVISED CONTACT INPUTS AND 2 1A, SRINX	
EA	CARD KEY		PROXIMITY OR SMART CARD, BY OTHERS	

HW 31 **EXTERIOR x A PAIR DOOR Type "CT", NON FIRE RATED, NON STC RATED (COOLING TOWER)**
DOORS: CT101

Qty.	Item	MFG	Product	Finish
2 EA	CONTINUOUS HINGES	IVS	224HD-12-24 x 1/2" STEEL SELF TAPPING SCREWS 5/16" CLEARANCE REQUIRED IN HINGE SIDE JAMB AND STILE.	
1 SET	CONSTANT LATCHING FLUSH BOLT	IVS	ANSI A156.3 TYPE 27 FOR HMD FB51P	626
1 EA	LOCKSET	SCH	F86, ND80HD7-RHO	630

1 EA	IC CORE	FAL	C607-A	626

END OF SECTION 087100