

BALTIMORE COUNTY, MARYLAND  
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION  
DIVISION OF CONSTRUCTION CONTRACTS ADMINISTRATION  
111 WEST CHESAPEAKE AVENUE  
TOWSON, MARYLAND 21204



Contract No. 25022 PP0  
Project No's. 10000636  
Essex Police Precinct 11 New Addition & Renovations (LEED SILVER CERTIFICATION) -  
216 & 222 North Marlyn Avenue, Essex, Maryland 21221  
Essex – District 15c7

**ADDENDUM NO. 3**

**DATE:** 12/23/2025

**Contact:** Anthony Crews, 410-887-3531, [tcrews@baltimorecountymd.gov](mailto:tcrews@baltimorecountymd.gov)

**To All Bidders**

This addendum is hereby made a part of the Proposal and the Special Provisions, and is hereby incorporated into the Contract. Should this addendum conflict with any portion of the Special Provisions, the Proposal, or any prior addenda, this addendum shall supersede and control.

Please note the attached changes, corrections, and/or information in connection with the contract and submit bids and be otherwise governed accordingly.

**For Your Information**

Attached are questions and answers.

**In the Specifications**

Revised and attached to be inserted: New pages 551-574, Section 08 71 00 – Door Hardware.  
Delete old pages 551-574. New pages 575-589 A-D, Section 08 71 20 - Detention Hardware.  
Delete old pages 575-589.

**In the Drawings**

Revised and attached to be inserted: New drawing numbers 2025-1130, 2025-1132, 2025-1173,  
2025-1186, 2025-1052 & 2025-895.

Attachments – 51

**Please sign below acknowledging receipt of this addendum and return with your bid.**

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Signature



**Addendum No. 3**  
December 23, 2025

**Essex Police Precinct 11 New Addition & Renovations (25022 PP0)**

216 & 222 North Marlyn Avenue, Essex, Maryland 21221.

This Addendum is hereby made part of the 100% Construction Documents dated July 14, 2025 (Project Manual and Drawings) for the above referenced project.

The provisions of this Addendum are intended to supplement and/or supersede the provisions of the Construction Documents only where contrary thereto.

This Addendum contains changes to the requirements of the Project Manual. Such changes shall be incorporated into the Construction Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of a paragraph of the Project Manual, the remainder of the paragraph affected shall remain in force.

The conditions and terms of the basic Specifications shall govern work described in this Addendum. Whenever the conditions of work, and the quality or quantity of materials, or workmanship are not fully described in this Addendum, the conditions of work, etc., included in the basic Specifications for similar items of work shall apply to the work described in this Addendum.

If no similar items of work are included in the basic Specifications, the best quality of material and workmanship shall apply, and all work shall be subject to the written acceptance of the Architect.

**GENERAL ITEMS**

**NOTE: Do not send Substitution Requests for products. There will be no substitutions during the Bidding Phase.**

Responses to solicitations received prior to the issuance of this addendum are as follows:

- 1. Question:** Drawing E201 shows a light fixture labeled as P1 in room C14, there is no P1 on the fixture schedule, please clarify which type of fixture this should be.  
**Response:** Fixture shall be a Type F. 4' LED Strip lighting fixture
- 2. Question:** Drawing E202 has over 20 fixtures labeled as AV in multiple rooms, this fixture is also not listed on the schedule, please clarify which type of fixture this should be.  
**Response:** The Type AV fixtures are the Type A with a battery back up system integral to the fixture to provide for additional emergency lighting in the Holding cell and bullpen areas should there be a problem with the emergency generator not starting or during maintenance of the generator. We provided this for both Wilken's and Essex. There was a note referring to the integral battery on the fixture schedules for both, but for some reason during the transition from CAD to REVIT it didn't show up.

**Murphy & Dittenhafer, Inc.**  
805 North Charles Street  
Baltimore, Maryland 21201  
410•625•4823  
410•625•4674 FAX



(Fixture Note: Fixtures with 'V' designation are to be provided with integral battery back up for emergency operation. Fixture battery shall be connected ahead of any switching for continuous charging power to battery.)

3. **Question:** Drawing E203 has 2 fixtures labeled as D2 in the Vestibule area, this fixture is also not listed on the schedule, please clarify which type of fixture this should be.

**Response:** Provide 6" square wall wash downlight Type D2. HE Williams 6DS-TL-L10/835-DIM-UNV-AWW-OF-WH-WET/CC-N-F1.

**CHANGES TO THE PROJECT MANUAL, attached as complete Sections**

Total number of revised specifications: 2

PROJECT MANUAL	SPEC #	SPECIFICATION NAME & DESCRIPTION	REVISED WITH
	087100	DOOR HARDWARE	Addendum #3
		Doors 155 & 163 were removed from Detention HDW Spec 087120 and move into 087100 Set 8 – Storage Closets-locking-HMD/HMF	
	087120	DETENTION HARDWARE	Addendum #3
		Multiple revisions to detention door hardware	

**CHANGES TO THE CONSTRUCTION DRAWINGS, attached**

Total number of revised drawings: 6

DWG. NUMBER	SHEET DESIG.	SHEET NAME & DESCRIPTION	REVISED WITH
2025-1130	E002	Light Fixture Schedule	Addendum #3
		Revised Lighting Fixture Schedule; Added Note to Lighting Fixture Schedule	
2025-1132	E201	Basement Plan - Lighting	Addendum #3
		Revised Lighting Fixture in C14 – Janitor Closet	
2025-1173	TA102	Low Voltage First Floor Plan – Wing A	Addendum #3
		Added low voltage connections to (11) doors.	
2025-1186	TA511	ELECTRONIC ACCESS CONTROL DOOR SCHEDULE	Addendum #3
		Added low voltage connections to (11) doors.	
2025-1052	A-603	DOOR SCHEDULE	Addendum #3
		Multiple revisions to door and frame time. Added door frame type. Revisions of sets coordinated with revisions to door hardware and detention hardware specifications	
2025-895	CS-4	CODE & LIFE SAFETY PLAN	Addendum #3
		Note added related to egress doors at Holding Area	

END OF ADDENDUM NO. #3

SECTION 08 71 00 – DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Finish Hardware for door openings other than detention doors, except as otherwise specified herein.
1. Door hardware for steel (hollow metal) doors
  2. Door hardware for aluminum doors
  3. Door hardware for wood doors
  4. Keyed cylinders as indicated.
- B. Related Sections
1. Division 6: Rough Carpentry
  2. Division 8: Aluminum-Framed Entrances and Storefronts
  3. Division 8: Hollow Metal Doors and Frames
  4. Division 8: Flush Wood Doors
  5. Division 8: Detention Doors and Frames
  6. Division 8: Detention Hardware
  7. Division 10: Signage
  8. Division 26: Electrical
- C. References: Comply with applicable requirements of the following standards. Where these standards conflict with other specific requirements, the most restrictive shall govern.
1. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design 2010.
  2. ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen 2019.
  3. BHMA A156.1 - Standard for Butts and Hinges 2021.
  4. BHMA A156.2 - Bored and Preassembled Locks and Latches 2017.
  5. BHMA A156.3 - Exit Devices 2020.
  6. BHMA A156.4 - Door Controls - Closers 2019.
  7. BHMA A156.5 - Cylinders and Input Devices for Locks 2020.
  8. BHMA A156.6 - Standard for Architectural Door Trim 2021.
  9. BHMA A156.7 - Template Hinge Dimensions 2016.
  10. BHMA A156.8 - Door Controls - Overhead Stops and Holders 2021.
  11. BHMA A156.13 - Mortise Locks & Latches Series 1000 2017.
  12. BHMA A156.15 - Release Devices - Closer Holder, Electromagnetic and Electromechanical 2021.
  13. BHMA A156.16 - Auxiliary Hardware 2018.
  14. BHMA A156.18 - Materials and Finishes 2020.
  15. BHMA A156.19 - Power Assist and Low Energy Power Operated Swinging Doors 2019.
  16. BHMA A156.21 - Thresholds 2019.
  17. BHMA A156.22 - Standard for Gasketing 2021.
  18. BHMA A156.23 - Electromagnetic Locks 2017.
  19. BHMA A156.25 - Electrified Locking Devices 2018.
  20. BHMA A156.26 - Standard for Continuous Hinges 2021.
  21. BHMA A156.28 - Recommended Practices For Mechanical Keying Systems 2018.

22. BHMA A156.30 - High Security Cylinders 2020.
23. BHMA A156.31 - Electric Strikes and Frame Mounted Actuators 2019.
24. BHMA A156.36 - Auxiliary Locks 2020.
25. BHMA A156.115 - Hardware Preparation In Steel Doors And Steel Frames 2016.
26. BHMA A156.115W - Hardware Preparation in Wood Doors with Wood or Steel Frames 2006.
27. DHI (H&S) - Sequence and Format for the Hardware Schedule 2019.
28. DHI (KSN) - Keying Systems and Nomenclature 2019.
29. DHI (LOCS) - Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames 2004.
30. DHI WDHS.3 - Recommended Locations for Architectural Hardware for Flush Wood Doors 1993; also in WDHS-1/WDHS-5 Series, 1996.
31. ICC (IBC) - International Building Code, 2021 Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
32. ICC A117.1 - Accessible and Usable Buildings and Facilities 2017.
33. ISO 9001 - Quality management systems -- Requirements 2015.
34. ITS (DIR) - Directory of Listed Products Current Edition.
35. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
36. NFPA 80 - Standard for Fire Doors and Other Opening Protectives 2022.
37. NFPA 101 - Life Safety Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
38. NFPA 105 - Standard for Smoke Door Assemblies and Other Opening Protectives 2022.
39. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies 2022.
40. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies Current Edition, Including All Revisions.
41. UL 437 - Standard for Key Locks Current Edition, Including All Revisions.
42. UL 1784 - Standard for Air Leakage Tests of Door Assemblies Current Edition, Including All Revisions.

D. Intent of Hardware Groups

1. Should items of hardware not specified be required for completion of the Work, furnish such items of type and quality comparable to adjacent hardware and appropriate for service required.
2. Where items of hardware aren't specified, are required for completion of the Work, a written statement of such discrepancy to be submitted to Architect, prior to date specified for receipt of bids for clarification by addendum; or furnish such items in the type and quality established by this specification, and appropriate to the service intended.
3. The door hardware contractor shall bid and in construction submit coordinated hardware and components that are required but not defined within the hardware set. The owner has County Standards and pre-approved manufacturers listed below.

1.2 SUBSTITUTIONS

- A. No substitutions are permitted. Components within a preapproved manufacturer may be substituted to better capture the requirements of the set.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

- B. Sustainable Design Submittals: Comply with Division 01 Section "Sustainable Design Requirements – LEED".
1. MR Credit 2: Environmental Product Declarations
    - a. Hardware, if available.
  2. MR Credit 3: Sourcing of Raw Materials
    - a. Recycled content: Steel, aluminum. Provide material cost values.
- C. Door Hardware Schedule: Shall be prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
  2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
  3. Content: Include the following information:
    - a. Type, style, function, size, label, hand, and finish of each door hardware item.
    - b. Manufacturer of each item.
    - c. Fastenings and other pertinent information.
    - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
    - e. Explanation of abbreviations, symbols, and codes contained in schedule.
    - f. Mounting locations for door hardware.
    - g. Door and frame sizes and materials.
    - h. Warranty information for each product.
  4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- D. Shop Drawings: Details of electrified access control hardware indicating the following:
1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
    - a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
    - b. Complete (risers, point-to-point) access control system block wiring diagrams.
    - c. Wiring instructions for each electronic component scheduled herein.
  2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

- E. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- F. Informational Submittals:
  - 1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- G. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

#### 1.4 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- E. Automatic Operator Supplier Qualifications: Power operator products and accessories are required to be supplied and installed through current members of the manufacturer's "Power Operator Preferred Installer" program. Suppliers are to be factory trained, certified, and a direct purchaser of the specified power operators and be responsible for the installation and maintenance of the units and accessories indicated for the Project.
- F. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
  - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
  - 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

- G. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.
- H. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
  - 1. Function of building, purpose of each area and degree of security required.
  - 2. Plans for existing and future key system expansion.
  - 3. Requirements for key control storage and software.
  - 4. Installation of permanent keys, cylinder cores and software.
  - 5. Address and requirements for delivery of keys.
- I. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), Contractor(s), Owner, and Architect to confirm hardware sets and components, review proper methods and procedures for receiving, handling, and installing door hardware.
  - 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
  - 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
  - 3. Review sequence of operation narratives for each unique access controlled opening.
  - 4. Review and finalize construction schedule and verify availability of materials.
  - 5. Review the required inspecting, testing, commissioning, and demonstration procedures.
- J. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

#### 1.6 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware.

Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

- B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.
- C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

#### 1.7 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
  - 1. Structural failures including excessive deflection, cracking, or breakage.
  - 2. Faulty operation of the hardware.
  - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
  - 4. Electrical component defects and failures within the systems operation.
- C. Standard Warranty Period: Two years from date of Substantial Completion, unless otherwise indicated.
- D. Special Warranty Periods:
  - 1. Ten years for mortise locks and latches.
  - 2. Five years for exit hardware.
  - 3. Twenty five years for manual overhead door closer bodies.
  - 4. Five years for motorized electric latch retraction exit devices.
  - 5. Two years for electromechanical door hardware, unless noted otherwise.

#### 1.8 EXTRA MATERIALS

- A. Furnish extra materials described below.
  - 1. Provide one extra key blank for each lock.

#### 1.9 MAINTENANCE

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

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. The following manufacturers are approved subject to compliance with requirements of the Contract Documents.

<u>Item:</u>	<u>Manufacturer:</u>
Hinges	Stanley
Continuous Hinges	Stanley
Locksets	Marks USA
Occupancy Indicator Locks	Yale/ Accentra YPL02
Cylinders	Medeco
Exit Devices	Marks
Closers	Corbin Russwin DC6210-N54
Push/ Pull Plates	Don-Jo
Push/ Pull Bars	Don-Jo
Protection Plates	Don-Jo
Overhead Stops	Don-Jo
Door Stops	Don-Jo
Flush Bolts	Don-Jo
Coordinator & Brackets	Don-Jo
Threshold & Gasket	National Guard

### 2.2 MATERIALS

1. Recycled Content: Provide aluminum and steel components with recycled content.
2. Hinges:
  1. Template screw hole locations
  2. Minimum of 2 permanently lubricated non-detachable bearings
  3. Equip with easily seated, non-rising pins
  4. Sufficient size to allow 180-degree swing of door
  5. Furnish hinges with five knuckles and flush [concealed] bearings
  6. Provide hinge type as listed in schedule.
  7. Furnish 3 hinges per leaf to 7 foot 6 inch height. Add one for each additional 30 inches in height or fraction thereof.
  8. Tested and approved by BHMA for all applicable ANSI Standards for type, size, function and finish
  9. UL10C listed for Fire rated doors.
3. Geared Continuous Hinges:
  1. Tested and approved by BHMA for ANSI A156.26-1996 Grade 1
  2. Anti-spinning through fastener
  3. ULIOC listed for 3 hour Fire rating
  4. Non-handed

5. Lifetime warranty
  6. Provide Fire Pins for 3-hour fire ratings
  7. Sufficient size to permit door to swing 180 degrees
4. Electrified Functions for Hinges: Comply with the following:
1. Power transfer: concealed PTFE-jacketed wires, secured at each leaf and continuous through hinge knuckle. Provide wire quantity and sizes required for electric hardware to be served.
  2. Monitoring: concealed electrical monitoring switch.
  3. Power transfer and monitoring: concealed PTFE-jacketed wires, secured at each leaf and continuous through hinge knuckle, and with concealed electrical monitoring switch.
5. Mortise Type Locks and Latches:
1. Tested and approved by BHMA for ANSI A156.13, Series 1000, Operational Grade 1, Extra— Heavy Duty, Security Grade 2 and be UL10C.
  2. Furnish UL or recognized independent laboratory certified mechanical operational testing to 4 million cycles minimum.
  3. Provide 9001—Quality Management and 14001—Environmental Management.
  4. Fit ANSI A115.1 door preparation
  5. Functions and design as indicated in the hardware groups
  6. Solid, one—piece, 3/4—inch (19mm) throw, antifriction latchbolt made of self-lubricating stainless steel
  7. Deadbolt functions shall have 1 inch (25mm) throw bolt made of hardened stainless steel
  8. Latchbolt and Deadbolt are to extend into the case a minimum of 3/8 inch (9.5mm) when fully extended
  9. Auxiliary deadlatch to be made of one piece stainless steel, permanently lubricated
  10. Provide sufficient curved strike lip to protect door trim
  11. Lever handles must be of forged or cast brass, bronze or stainless-steel construction and conform to ANSI A117.1. Levers that contain a hollow cavity are not acceptable
  12. Lock shall have self—aligning, thru—bolted trim
  13. Levers to operate a roller bearing spindle hub mechanism
  14. Mortise cylinders of lock shall have a concealed internal setscrew for securing the cylinder to the lockset. The internal setscrew will be accessible only by removing the core, with the control key, from the cylinder body.
  15. Spindle to be designed to prevent forced entry from attacking of lever
  16. Provide locksets with 7-pin removable and interchangeable core cylinders
  17. Each lever to have independent spring mechanism controlling it
  18. Core face must be the same finish as the lockset.
6. Cylindrical Type Locks and Latches:
- a. Tested and approved by BHMA for ANSI A156.2, Series 4000, Operational Grade 1, Extra-Heavy Duty, and be UL10C listed.
  - b. Provide 9001-Quality Management and 14001-Environmental Management.
  - c. Fit modified ANSI A115.2 door preparation.
  - d. Locksets and cores to be of the same manufacturer to maintain complete lockset warranty
  - e. Locksets to have anti-rotational studs that are thru-bolted
  - f. Keyed lever shall not have exposed “keeper” hole
  - g. Each lever to have independent spring mechanism controlling it
  - h. 2-3/4 inch (70 mm) backset
  - i. 9/16 inch (14 mm) throw latchbolt

- j. Provide sufficient curved strike lip to protect door trim
  - k. Outside lever sleeve to be seamless, of one-piece construction made of a hardened steel alloy
  - l. Keyed lever to be removable only after core is removed, by authorized control key
  - m. Provide locksets with 7-pin removable and interchangeable core cylinders
  - n. Hub, side plate, shrouded rose, locking pin to be a one-piece casting with a shrouded locking lug.
  - o. Locksets outside locked lever must withstand minimum 1400 inch pounds of torque. In excess of that, a replaceable part will shear. Key from outside and inside lever will still operate lockset.
  - p. Core face must be the same finish as the lockset.
  - q. Functions and design as indicated in the hardware groups.
7. Cylindrical Grade 2 Type Locks and Latches:
- a. Certified by BHMA for ANSI A156.3, Series 4000, Operational Grade 2.
  - b. Fit modified ANSI A115.3 door preparation
  - c. Locksets and cores to be of the same manufacturer to maintain complete lockset warranty
  - d. 2-3/4 inch (70mm) backset, or 2 3/8 inch backset as needed
  - e. 1/2 inch (14mm) throw latchbolt
  - f. Provide locksets with 7-pin *code*.
  - g. Functions and design as indicated in the hardware groups
8. Exit Devices:
- a. Exit devices to meet or exceed BHMA for ANSI 156.3, Grade 1.
  - b. Exit devices to be tested and certified by UL or by a recognized independent laboratory for mechanical operational testing to 9 million cycles minimum with inspection confirming Grade 1 Loaded Forces have been maintained.
  - c. Exit devices chassis to be investment cast steel, zinc dichromate.
  - d. Exit devices to have stainless steel deadlocking 3/4" through latch bolt.
  - e. Exit devices to be equipped with sound dampening on touchbar.
  - f. Non-fire rated exit devices to have cylinder dogging.
  - g. Non-fire rated exit devices to have 1/4" minimum turn hex key dogging.
  - h. Touchpad to be "T" style constructed of architectural metal with matching metal end caps.
  - i. Touchbar assembly on wide style exit devices to have a 1/4" clearance to allow for vision frames.
  - j. All exposed exit device components to be of architectural metals and "true" architectural finishes.
  - k. Provide strikes as required by application.
  - l. Fire exit hardware to conform to UL10C and UBC 7-2. UL tested for Accident Hazard.
  - m. Exit device to be heavy investment cast stainless steel with black powder coated finish.
  - n. Exit devices to have field reversible handing.
  - o. Provide heavy duty vandal resistant lever trim with heavy duty investment cast stainless steel components and extra strength shock absorbing overload springs. Lever shall not require resetting. Lever design to match locksets and latchsets.
  - p. Provide 9001-Quality Management and 14001 -Environmental Management.
  - q. Vertical Latch Assemblies to have gravity operation, no springs.
9. Cylinders:

- a. Provide the necessary cylinder housings, collars, rings & springs as recommended by the manufacturer for proper installation.
  - b. Provide the proper cylinder cams or tail piece as required to operate all locksets and other keyed hardware items listed in the hardware sets.
  - c. Coordinate and provide as required for related sections.
10. Door Closers:
- a. Tested and approved by BHMA for ANSI 156.4, Grade 1
  - b. UL10C certified
  - c. Provide 9001—Quality Management and 14001-Environmental Management.
  - d. Closer shall have extra—duty arms and knuckles
  - e. Conform to ANSI 117.1
  - f. Maximum 2 7/16 inch case projection with non-ferrous cover
  - g. Separate adjusting valves for closing and latching speed, and backcheck
  - h. Provide adapter plates, shim spacers and blade stop spacers as required by frame and door conditions
  - i. Full rack and pinion type closer with 1 1/2" minimum bore
  - j. Mount closers on non-public side of door, unless otherwise noted in specification
  - k. Closers shall be non-handed, non-sized and multi-sized.
11. Door Stops:
- a. Wall stop and floor stop shall be wrought bronze, brass or stainless steel.
  - b. Provide fastener suitable for wall construction.
  - c. Coordinate reinforcement of walls where wall stop is specified.
  - d. Provide dome stops where wall stops are not practical. Provide spacers or carpet riser for floor conditions encountered
12. Overhead Stops: Provide a Surface mounted or concealed overhead when a floor or wall stop cannot be used or when listed in the hardware set.
- a. Concealed overhead stops shall be heavy duty bronze or stainless steel.
  - b. Surface overhead stops shall be heavy duty bronze or stainless steel.
13. Push Plates: Provide with four beveled edges ANSI J301, .050 thickness, size as indicated in hardware set. Furnish oval-head countersunk screws to match finish.
14. Pulls with Plates: Provide with four beveled edges ANSI J301, .050 thickness plates with ANSI J401 Pull as listed in hardware set. Provide proper fasteners for door construction.
15. Push/ Pull Bars: Provide ANSI J504, 1" Dia. Pull and push bar model and series as listed in hardware set. Provide proper fasteners for door construction.
16. Kickplates: Provide with four beveled edges ANSI J102, 10 inches high by width less 2 inches on single doors and 1 inch on pairs of doors. Furnish oval-head countersunk screws to match finish.
17. Mop Plates: Provide with four beveled edges ANSI J103, 4 inches high by width less 1 inch on single doors and 1 inch on pairs of doors. Furnish oval-head countersunk screws to match finish.

18. Door Bolts: Flush bolts for wood or metal doors.
  - a. Provide a set of Automatic bolts, Certified ANSI/BHMA 156.3 Type 25 for hollow metal label doors.
  - b. Provide a set of Automatic bolts, Certified ANSUBHMA 156.3 Type 27 at wood label doors.
  - c. Manual flush bolts, Certified ANSI/BHMA 156.16 at openings where allowed local authority.
  - d. Provide Dust Proof Strike, Certified ANSI/BHMA 1J6.16 at doors with flush bolts without thresholds.
  
19. Coordinator and Brackets: Provide a surface mounted coordinator when automatic bolts are used in the hardware set.
  - a. Coordinator, Certified ANSI/BHMA A1156.3 Type 2IA for full width of the opening.
  - b. Provide mounting brackets for soffit applied hardware.
  - c. Provide hardware preparation (cutouts) for latches as necessary.
  
20. Power Supply:
  - a. Provide power supply for (ELR) Electric Latch Retraction exit devices
    - i. Motherboard will accept up to four plug—in Control Modules. Provide the appropriate necessary control module to operate the number of ELR exit devices used at each opening. The Control Module shall include a Time delay Feature, variable (0-4 minutes) latch retraction period in response to a momentary input.
    - ii. UL Listed for class II output
    - iii. Include circuit breakers for protection of motherboard
    - iv. 115 or 230 Volt user selectable switch, with AC input = 115 Volt at 1 Amp
    - v. Control module shall include Fire alarm terminal and Auxiliary contacts for remote signaling.
    - vi. Optional card for Battery Backup (BT) power tap module to operate a Card reader or when ELR devices require battery backup (Lead Acid Batteries are not included and is to be furnished by others)
  - b. Provide power supply that is UL Listed, Field Selectable 12VDC or 24VDC output. The power supply will be specifically designed to support electric locks and access controls. The power supply uses 115 VAC at 800mA input. The power shall be able to be expanded to four station controls. The filtered and regulated output power is field selectable for 12 or 24 VDC.
    - i. Fire Alarm/Life Safety emergency release included in power supply.
    - ii. Available options for multiple door options four or more control stations, Adjustable Time delay relay, Battery charging, Battery Backup.
  
21. Power Transfer: Power transfer device shall be a steel housing and flexible tube. Secure and inconspicuous channel is to bring power from the frame to the door.
  - a. Precision EPT-5
  - b. Tube shall accept up to 5/16" wire bundle and accommodate a door swing of 120 Deg.
  - c. Wires as required by others
  
22. Surface Mounted Door Loop Power Transfer: Armored flex conduit is to bring power from the frame to the door. The tube shall accept up to 1/4" wire bundle and is 18" long.
  - a. Precision EPT-2
  - b. Wires as required by others.

23. Electric Door Strike: Certified by ANSI/BHMA 1J6.31, Grade 1. and listed for Burglary Protection ANSI/ ULI034 Grade 1.
  - a. For General use provide fail-secure electric strike and with fire-rated device.
  - b. Listed UL10C for Fire Door assemblies
  - c. Latchbolt monitor switch option when specified in hardware sets.
  - d. Provide the electric strike in the appropriate model that will accept a 5/8" or 3/4" latchbolt.
24. Door Position Switch: Provided by Security Contractor for door status monitoring as indicated in hardware sets.
  - a. At all fired rated doors the door and frames, position switch preparation will be provided by the door and frame manufacturer or by an authorized label service agent.
25. Seals: All seals shall be finished to match adjacent frame color. Seals shall be furnished as listed in schedule. Material shall be UL listed for labeled openings.
26. Weatherstripping: Provide at head and jambs only those units where resilient or flexible-seal strip is easily replaceable. Where bar-type weatherstrip is used with parallel arm mounted closers install weatherstrip first.
  - a. Weatherstrip shall be resilient seal of Silicone
  - b. ULIOC Positive Pressure rated seal set when required.
27. Door Bottom/ Sweeps: Surface mounted or concealed door bottom where listed in the hardware sets.
  - a. Door seal shall be resilient seal of Silicone
  - b. UL10C Positive Pressure rated seal set when required.
28. Thresholds: Thresholds shall be aluminum beveled type with maximum height of 1/2" for conformance with ADA requirements. Furnish as specified and per details. Provide fasteners and screws suitable for floor conditions.
29. Key Cabinet: Provide one wall mounted Telkee, Lund or MMF series key cabinet complete with hooks, index and tags to accommodate 50% expansion. Coordinate mounting location with architect.
30. Silencers: Furnish silencers on all interior frames, 3 for single doors, 2 for pairs. Omit where any type of seals occur.

### 3.3 FINISH

- A. Designations used in Schedule of Finish Hardware - 3.05, and elsewhere to indicate hardware finishes are those listed in ANSI/BHMA A156.18 including coordination with traditional U.S. finishes shown by certain manufacturers for their products
- B. Powder coat door closers to match other hardware, unless otherwise noted.
- C. Aluminum items shall be finished to match predominant adjacent material. Seals to coordinate with frame color.

### 3.4 KEYS AND KEYING

- A. Provide keyed brass construction cores and keys during the construction period. Construction control and operating keys and core shall not be part of the Owner's permanent keying system or furnished in the same keyway (or key section) as the Owner's permanent keying system. Permanent cores and keys (prepared according to the accepted keying schedule) will be furnished to the Owner.
- B. Cylinders, removable and interchangeable core system: MEDECO.
- C. Permanent keys and cores: stamped with the applicable key mark for identification. These visual key control marks or codes will not include the actual key cuts. Permanent keys will also be stamped "Do Not Duplicate."
- D. Transmit Grand Masterkeys, Masterkeys, and other Security keys to Owner by Registered Mail, return receipt requested.
- E. Furnish Keys in the following quantities:
  - 1. 1 each Grand Masterkeys
  - 2. 4 each Masterkeys
  - 3. 2 each Change keys each keyed core
  - 4. 15 each Construction masterkeys
  - 5. 1 each Control keys
- F. The Owner, or the Owner's agent, will install permanent cores and return the construction cores to the Hardware Supplier. Construction cores and keys remain the property of the Hardware Supplier.
- G. Keying Schedule: Arrange for a keying meeting, and programming meeting with Architect Owner and hardware supplier, and other involved parties to ensure locksets and locking hardware, are functionally correct and keying and programming complies with project requirements. Furnish 3 typed copies of keying and programming schedule to Architect.

## PART 3 – EXECUTION

### 3.1 EXAMINATION

- A. Verification of conditions: Examine doors, frames, related items and conditions under which Work is to be performed and identify conditions detrimental to proper and or timely completion.
  - a. Do not proceed until unsatisfactory conditions have been corrected.

### 3.2 HARDWARE LOCATIONS

- A. Mount hardware units at heights indicated in the following publications except as specifically indicated or required to comply with the governing regulations.
  - 1. Recommended Locations for Builder's Hardware for Standard Steel Doors and Frames, by the Door and Hardware Institute (DHI).
  - 2. Recommended locations for Architectural Hardware for flush wood doors (DHI).
  - 3. WDMA Industry Standard I.S.-IA-04, Industry Standard for Architectural wood flush doors.

### 3.3 INSTALLATION

- A. Install each hardware item per manufacturer's instructions and recommendations. Do not install surface mounted items until finishes have been completed on the substrate. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- B. Conform to local governing agency security ordinance.
- C. Install Conforming to ICC/ANSI A117.1 Accessible and Usable Building and Facilities.
  - 1. Adjust door closer sweep periods so that from the 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 landing side of the door.
- D. Installed hardware using the manufacturers fasteners provided. Drill and tap all screw holes located in metallic materials. Do not use "Riv-Nuts" or similar products.

### 3.4 FIELD QUALITY CONTROL AND FINAL ADJUSTMENT

- A. Contractor/installers, Field Services: After installation is complete, contractor shall inspect the completed door openings on site to verify installation of hardware is complete and properly adjusted, in accordance with both the Contract Documents and final shop drawings.
  - 1. Check and adjust closers to ensure proper operation.
  - 2. Check latchset, lockset, and exit devices are properly installed and adjusted to ensure proper operation.
    - i. Verify levers are free from binding.
    - ii. Ensure latchbolts and dead bolts are engaged into strike and hardware is functioning.
  - 4. Report findings, in writing, to architect indicating that all hardware is installed and functioning properly. Include recommendations outlining corrective actions for improperly functioning hardware if required.

### 3.5 SCHEDULE OF FINISH HARDWARE

Manufacturer List:

<u>Code</u>	<u>Name</u>
BY	By Related Section
CR	Corbin Russwin
DJ	Don-Jo
MA	Marks
MD	Medeco
NA	National Guard
ST	Stanley
BO	By Owner/ Others
Y/A	Yale/ Accentra

Finish List:

<u>Code</u>	<u>Description</u>
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15	Satin Nickel Plate
28	Aluminum Anodized (Clear)
32D	Satin Stainless Steel
626	Satin Chromium Plated
628	Satin Aluminum, Clear Anodized
630	Satin Stainless Steel
689	Aluminum Painted
AL	Aluminum
CL	Clear
US32D	Stainless Steel, Dull

Hardware Sets

Set 1 - Public Access – Ext. AL SF – Access Control, CR on Ext, Monitored w/Remote Buzzer, ADA operators.

Doors: C01A

2	Continuous Hinge	By HDW Contractor	AL	ST
1	Removable Mullion	By HDW Contractor	689	BY
2	Exit Device	By HDW Contractor	630	MA
3	Rim Cylinder	By HDW Contractor	626	BY
2	Mortise Cylinder	By HDW Contractor	626	BY
2	Core	By HDW Contractor	626	MD
2	Door Pull	By HDW Contractor	630	DJ
2	Closer	By HDW Contractor	689	CR
2	Overhead Stop	By HDW Contractor	689	DJ
1	Card Reader	Furnished and Installed by the Security Contractor		BO
3	Harness	By HDW Contractor		ST
1	Wiring Diagram	By HDW Contractor		BY
2	Power Transfer	By HDW Contractor		BY
2	Door Position Switch	By HDW Contractor	WHITE	BY
2	Backup Battery	By HDW Contractor		BE
1	Surface Mounting Box	By HDW Contractor		BY
1	Actuator	By HDW Contractor	630	BY
2	Harness	By HDW Contractor		ST
1	Low Energy Operator	By HDW Contractor	628	BY
1	Power Supply	By HDW Contractor		BY
1	Meeting Stile Seal	Provided by the Alum. Door Mfg.		BY
2	Drip Cap	By HDW Contractor		NA
1	Mullion Seal	By HDW Contractor		NA
2	Weather-Stripping	Provided by ALD/F MFR		BO
	Gasket	GASKETING BY ALUMINUM DOOR MANUFACTURER		BY
2	Door Sweep	By HDW Contractor		NA
1	Threshold	By HDW Contractor	AL	NA
2	ADA Operator	By HDW Contractor	AL	BY

OPERATION DESCRIPTION: Door normally open 24/7. When in lockdown, presenting valid credentials to Card Reader or mechanical key will momentarily release lock. Free egress from

interior at all times. With loss of power or activation of Fire Alarm System secure side will remain locked.

~~Set 1.1 - Sally Port Staff Door - Ext. HMD /HMF (IM) w/Ext CR remote buzzer  
 - Doors: 191A,191B~~

<del>1</del>	<del>Continuous Hinge</del>	<del>By HDW Contractor</del>	<del>BK</del>	<del>ST</del>
<del>1</del>	<del>Exit Device</del>	<del>By HDW Contractor</del>	<del>630</del>	<del>MA</del>
<del>1</del>	<del>Rim Cylinder</del>	<del>By HDW Contractor</del>	<del>626</del>	<del>MA</del>
<del>1</del>	<del>Mortise Cylinder</del>	<del>195RDW/26D</del>	<del>626</del>	<del>MA</del>
<del>1</del>	<del>Core</del>	<del>By HDW Contractor</del>	<del>626</del>	<del>MD</del>
<del>1</del>	<del>Overhead Stop</del>	<del>By HDW Contractor</del>	<del>689</del>	<del>DJ</del>
<del>1</del>	<del>Kick Plate</del>	<del>By HDW Contractor</del>	<del>630</del>	<del>DJ</del>
<del>1</del>	<del>Card Reader</del>	<del>Furnished and Installed by the Security Contractor</del>		<del>BO</del>
<del>2</del>	<del>Harness</del>	<del>By HDW Contractor</del>		<del>ST</del>
<del>1</del>	<del>Wiring Diagram</del>	<del>Furnished by Hardware Supplier</del>		<del>BY</del>
<del>1</del>	<del>Power Transfer</del>	<del>By HDW Contractor</del>		<del>BY</del>
<del>1</del>	<del>Door Position Switch</del>	<del>By HDW Contractor</del>	<del>WHITE</del>	<del>BY</del>
<del>2</del>	<del>Backup Battery</del>	<del>By HDW Contractor</del>		<del>BY</del>
<del>2</del>	<del>Surface Mounting Box</del>	<del>By HDW Contractor</del>		<del>BY</del>
<del>2</del>	<del>Actuator</del>	<del>By HDW Contractor</del>	<del>630</del>	<del>BY</del>
<del>1</del>	<del>Harness</del>	<del>By HDW Contractor</del>		<del>ST</del>
<del>1</del>	<del>Low Energy Operator</del>	<del>By HDW Contractor</del>	<del>628</del>	<del>BY</del>
<del>1</del>	<del>Power Supply</del>	<del>By HDW Contractor</del>		<del>BY</del>
<del>1</del>	<del>Drip Cap</del>	<del>By HDW Contractor</del>		<del>NA</del>
<del>1</del>	<del>Smoke Seal</del>	<del>By HDW Contractor</del>		<del>NA</del>
<del>1</del>	<del>Door Sweep</del>	<del>By HDW Contractor</del>		<del>NA</del>
<del>1</del>	<del>Threshold</del>	<del>By HDW Contractor</del>	<del>AL</del>	<del>NA</del>

~~OPERATION DESCRIPTION: Door normally closed, latched and secure. Presenting valid credentials to Card Reader or mechanical key will momentarily release lock. Free egress from interior at all times. With loss of power or activation of Fire Alarm System secure side will remain locked.~~

Set 1.2 - Staff Access - Ext. HMD /HMF (IM) - Access Control, w/Ext CR & Sound Gasket  
 Doors: B01, 07B\*  
 \*Fire rated hardware required

1	Continuous Hinge	By HDW Contractor	BK	ST
1	Exit Device	By HDW Contractor	630	MA
1	Rim Cylinder	By HDW Contractor	626	MA
1	Mortise Cylinder	195RAB/26D	626	MA
1	Core	By HDW Contractor	626	MD
1	Overhead Stop	By HDW Contractor	689	DJ
1	Kick Plate	By HDW Contractor	630	DJ
1	Card Reader	Furnished and Installed by the Security Contractor		BO
2	Harness	By HDW Contractor		ST
1	Wiring Diagram	Furnished by Hardware Supplier		BY
1	Power Transfer	By HDW Contractor		BY
1	Door Position Switch	By HDW Contractor	WHITE	BY
2	Backup Battery	By HDW Contractor		BY
2	Surface Mounting Box	By HDW Contractor		BY
2	Actuator	By HDW Contractor	630	BY
1	Harness	By HDW Contractor		ST

1	Low Energy Operator	By HDW Contractor	628	BY
1	Power Supply	By HDW Contractor		BY
1	Drip Cap	By HDW Contractor		NA
1	Smoke Seal	By HDW Contractor		NA
1	Door Sweep	By HDW Contractor		NA
1	Threshold	By HDW Contractor	AL	NA
1	Sound gasket	By HDW Contractor		

OPERATION DESCRIPTION: Door normally closed, latched and secure. Presenting valid credentials to Card Reader or mechanical key will momentarily release lock. Free egress from interior at all times. With loss of power or activation of Fire Alarm System secure side will remain locked.

Set 1.3 - Sally Port OHD – Ext. OHD with remote opening  
 Door: 191E, 191F  
*Coordinate with Overhead Door provider & County OIT*

Set 1.4 – Exit with Ext. CR– HMD/HMF – Ballistic Lvl 3 door panel  
 Door: 02A, 100B

1	Continuous Hinge	By HDW Contractor	BK	ST
1	Exit Device	By HDW Contractor	630	MA
1	Rim Cylinder	By HDW Contractor	626	MA
1	Mortise Cylinder	By HDW Contractor	626	MA
1	Core	By HDW Contractor	626	MD
1	Overhead Stop	By HDW Contractor	689	DJ
1	Kick Plate	By HDW Contractor	630	DJ
1	Card Reader	Furnished and Installed by the Security Contractor		BO
2	Harness	By HDW Contractor		ST
1	Wiring Diagram	Furnished by Hardware Supplier		BY
1	Power Transfer	By HDW Contractor		BY
1	Door Position Switch	By HDW Contractor	WHITE	BY
2	Backup Battery	By HDW Contractor		BY
2	Surface Mounting Box	By HDW Contractor		BY
2	Actuator	By HDW Contractor	630	BY
1	Harness	By HDW Contractor		ST
1	Low Energy Operator	By HDW Contractor	628	BY
1	Power Supply	By HDW Contractor		BY
1	Drip Cap	By HDW Contractor		NA
1	Smoke Seal	By HDW Contractor		NA
1	Door Sweep	By HDW Contractor		NA
1	Threshold	By HDW Contractor	AL	NA

OPERATION DESCRIPTION: Door normally closed, latched and secure. Presenting valid credentials to Card Reader or mechanical key will momentarily release lock. Free egress from interior at all times. With loss of power or activation of Fire Alarm System secure side will remain locked.

Set 1.5 – Exit Only - Ext. AL SF– No exterior trim. Ballistic Lvl 3 door & lites  
 Door: 03

2	Continuous Hinge	By HDW Contractor	AL	ST
2	Exit Device	By HDW Contractor	630	MA
1	Rim Cylinder	By HDW Contractor	626	BY
1	Core	By HDW Contractor	626	MD
2	Closer	By HDW Contractor	689	CR

2	Overhead Stop	By HDW Contractor	689	DJ
2	Kick Plate	By HDW Contractor	630	DJ
2	Door Position Switch	By HDW Contractor	WHITE	BY
2	Drip Cap	By HDW Contractor		NA
2	Weather-Stripping	Provided by ALD/F MFR		BO
2	Door Sweep	By HDW Contractor		NA
1	Threshold	By HDW Contractor	AL	NA

Set 1.6 - Staff Access – AL SF – Passage

Doors: 02B, C09B,

2	Continuous Hinge	By HDW Contractor	AL	ST
1	Removable Mullion	By HDW Contractor	689	BY
2	Exit Device	By HDW Contractor	630	MA
3	Rim Cylinder	By HDW Contractor	626	BY
2	Mortise Cylinder	By HDW Contractor	626	BY
2	Core	By HDW Contractor	626	MD
2	Door Pull	By HDW Contractor	630	DJ
2	Closer	By HDW Contractor	689	CR
2	Overhead Stop	By HDW Contractor	689	DJ
1	Meeting Stile Seal	Provided by the Alum. Door Mfg.		BY
2	Weather-Stripping	Provided by ALD/F MFR		BO
	Gasket	GASKETING BY ALUMINUM DOOR MANUFACTURER		BY
2	Door Sweep	By HDW Contractor		NA
1	Threshold	By HDW Contractor	AL	NA

Set 1.7 - Staff Access – Ext. AL SF - Access Control, w/Ext CR & Sound Gasket

Doors: 02A, C09A

\*Fire rated hardware required

1	Continuous Hinge	By HDW Contractor	BK	ST
1	Exit Device	By HDW Contractor	630	MA
1	Rim Cylinder	By HDW Contractor	626	MA
1	Mortise Cylinder	195RAB/26D	626	MA
1	Core	By HDW Contractor	626	MD
1	Overhead Stop	By HDW Contractor	689	DJ
1	Kick Plate	By HDW Contractor	630	DJ
1	Card Reader	Furnished and Installed by the Security Contractor		BO
2	Harness	By HDW Contractor		ST
1	Wiring Diagram	Furnished by Hardware Supplier		BY
1	Power Transfer	By HDW Contractor		BY
1	Door Position Switch	By HDW Contractor	WHITE	BY
2	Backup Battery	By HDW Contractor		BY
2	Surface Mounting Box	By HDW Contractor		BY
2	Actuator	By HDW Contractor	630	BY
1	Harness	By HDW Contractor		ST
1	Low Energy Operator	By HDW Contractor	628	BY
1	Power Supply	By HDW Contractor		BY
1	Drip Cap	By HDW Contractor		NA
1	Smoke Seal	By HDW Contractor		NA
1	Door Sweep	By HDW Contractor		NA
1	Threshold	By HDW Contractor	AL	NA
1	Sound gasket	By HDW Contractor		

Set 1.8 – Exterior Site Fence Gate Personnel Door

*Door: See Landscape Plans. Provide components for exterior access control*

Set 1.9 – Exterior Swing Gate Access Control

*Door: See Landscape Plans. Provide components for exterior access control.*

Set 2 - Restrooms & Wellness Rm - WDD/HMF SI w/ Occupancy Indicator

Doors: 005A, 005B, 007, 141, 146, 147, 148, 151

3 Hinges	By HDW contractor	US32D	ST
1 Privacy Set (F76A)	YPL02	626	Y/A
1 Door Closer	By HDW contractor	689	CR
1 Kick Plate	By HDW contractor	630	DJ
1 Mop Plate	By HDW contractor	630	DJ
1 Wall Stop	By HDW contractor	US32D	DJ
1 Hat & Coat Hook	By HDW contractor	US32D	DJ
3 Door Silencers	By HDW contractor	GRAY	DJ

Set 2.1 - Restrooms - WD/HMF SI w/ Occupancy Indicator, Ballistic Lvl 3 door and frame

Doors: 104, 105

3 Hinges	By HDW contractor	US32D	ST
1 Privacy Set (F76A)	YPL02	626	Y/A
1 Door Closer	By HDW contractor	689	CR
1 Kick Plate	By HDW contractor	630	DJ
1 Mop Plate	By HDW contractor	630	DJ
1 Wall Stop	By HDW contractor	US32D	BY
1 Hat & Coat Hook	By HDW contractor	US32D	BY

Set 3 - IT Room – HMD/HMF w/ Access Control, Ext. side Card Reader

Doors: 108

1 Continuous Hinge	By HDW contractor	AL	ST
1 Rim Cylinder	195RF/26D	626	MA
1 Core	By HDW contractor	626	MD
1 Electric Strike	By HDW contractor	630	BY
1 Closer	By HDW contractor	693	CR
1 Overhead Stop	By HDW contractor	689	DJ
1 Kick Plate	By HDW contractor	630	DJ
1 Card Reader	Furnished and Installed by the Security Contractor		BO
2 Harness	By HDW contractor		ST
1 Wiring Diagram	Furnished by Hardware Supplier		BY
1 Door Position Switch	By HDW contractor	WHITE	BY
2 Backup Battery	By HDW contractor		BY
1 Power Supply	By HDW contractor		BY
1 Smoke Seal	By HDW contractor		NA
1 Door Sweep	By HDW contractor		NA
1 Threshold	By HDW contractor	AL	NA

Set 4 – Evidence Processing – HMD/HMF w/Card Reader, Sound gasketing

Doors: 131

1 Continuous Hinge	By HDW contractor	AL	ST
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1	Exit Device	By HDW contractor	630	MA
1	Rim Cylinder	195N/26D	626	MA
1	Core	By HDW contractor	626	MD
1	Electric Strike	By HDW contractor	630	BY
1	Closer	By HDW contractor	693	CR
1	Overhead Stop	By HDW contractor	689	DJ
1	Kick Plate	By HDW contractor	630	DJ
1	Card Reader	Furnished and Installed by the Security Contractor		BO
2	Harness	By HDW contractor		ST
1	Wiring Diagram	Furnished by Hardware Supplier		BY
1	Door Position Switch	By HDW contractor	WHITE	BY
2	Backup Battery	By HDW contractor		BY
1	Power Supply	By HDW contractor		BY
1	Drip Cap	By HDW contractor		NA
1	Smoke Seal	By HDW contractor		NA
1	Door Sweep	By HDW contractor		NA
1	Threshold	By HDW contractor	AL	NA
1	Sound Gasketing	By HDW contractor		BY

Set 5 – Office Suite – WDD/HMF

Doors: 114A, 118, 120, 123, 125A, 125B, 133, 142, 149, 150A 178A, 185,

3	Hinge	By HDW Contractor	32D	ST
1	Entry Lock	195RAB/26D	630	MA
1	Cylinder Core	By HDW Contractor	626	MD
1	Closer	By HDW Contractor	689	CR
1	Wall Bumper	By HDW Contractor	626	DJ
1	Sound Gasketing	By HDW Contractor @ Head & Jambs		BY
1	Overhead Stop	By HDW Contractor	689	DJ
1	Threshold	By HDW contractor	AL	NA

Set 6 – Private Office HMD/HMF

Doors: 176, 180, 181, 182, 187B

3	Hinge	By HDW Contractor	32D	ST
1	Entry Lock	195RAB/26D	630	MA
1	Cylinder Core	By HDW Contractor	626	MD
1	Closer	By HDW Contractor	689	CR
1	Wall Bumper	By HDW Contractor	626	DJ
1	Overhead Stop	By HDW Contractor	689	DJ
1	Coat Hook	By HDW Contractor	630	DJ
1	Sound Gasketing	By HDW Contractor @ Head & Jambs		BY
1	Threshold	By HDW contractor	AL	NA

Set 6.1 – Private Office WDD/HMF

Doors: 107, 109, 115, 116, 117, 119, 121, 124, 126, 127, 128, 135, 136, 138, 139, 140A, 143, 144A, 144B, 177, 179, 186

3	Hinge	By HDW Contractor	32D	ST
1	Entry Lock	195RAB/26D	630	MA
1	Cylinder Core	By HDW Contractor	626	MD
1	Closer	By HDW Contractor	689	CR
1	Wall Bumper	By HDW Contractor	626	DJ
1	Overhead Stop	By HDW Contractor	689	DJ

1	Coat Hook	By HDW Contractor	630	DJ
1	Sound Gasketing	By HDW Contractor @ Head & Jambs		BY
1	Threshold	By HDW contractor	AL	NA

Set 7 - Passage doors & Closets – non locking

Doors: 001, 002, 003 (pair), 004, 005, 008A, 008B, 07A\*, 106A, 114B, 129A, 129B, 130, 132, 137, 140B, 178B, 178C, 183  
 \* fire rated hardware required

3	Hinge	By HDW Contractor	32D	ST
1	Passage Set	195N/26D	630	MA
1	Overhead Stop	By HDW Contractor	689	DJ
1	Sound Gasketing	By HDW Contractor @ Head & Jambs		BY
1	Threshold	By HDW contractor	AL	NA

Set 7.1 - Passage doors & Closets – panic bar

Doors: B02\*  
 \* fire rated hardware required

3	Hinge	By HDW Contractor	32D	ST
1	Passage Set	195N/26D	630	MA
1	Exit Device	By HDW contractor	630	MA
1	Overhead Stop	By HDW Contractor	689	DJ
1	Sound Gasketing	By HDW Contractor @ Head & Jambs		BY
1	Threshold	By HDW contractor	AL	NA

Set 8 – Storage Closets – Locking – HMD/HMF

Doors: 006, 110, 145, **155, 163**, 175, 187A (pair), 188 (pair), 189 (pair), 190 (pair)  
 \*rated hardware req.

3	Hinge	By HDW Contractor	32D	ST
1	Storeroom Lock	195RF/26D	630	MA
1	Core	By HDW contractor	626	MD
1	Closer*	By HDW contractor	693	CR
1	Overhead Stop	By HDW Contractor	689	DJ
2	Kick Plate	By HDW contractor	630	BY
1	Door Sweep	By HDW contractor		NA
1	Sound Gasketing	By HDW Contractor @ Head & Jambs		BY
1	Threshold	By HDW contractor	AL	NA

Set 9 – Mech / Electrical Closet – HMD/HMF – exit device

Doors: 112A\*, 112B\*  
 \*provide rated hardware

1	Continuous Hinge	By HDW Contractor	AL	ST
1	Removable Mullion	By HDW Contractor	689	BY
1	Exit Device	By HDW Contractor	630	MA
1	Rim Cylinder	195RF/26D	626	MA
1	Core	By HDW Contractor	626	MD
1	Closer	By HDW Contractor	689	CR
1	Overhead Stop	By HDW Contractor	689	DJ
1	Smoke Seal	By HDW Contractor @ Head & Jambs		NA
1	Mullion Seal	By HDW Contractor		NA
1	Door Sweep	By HDW Contractor		NA

1 Threshold By HDW Contractor AL NA

Set 10\* – Detention Sliding – DHMD/DHMF Sliding Remote release  
 Doors: 154, 156, 157, 158, 159, 171, 172, 173, 174  
 \*See spec section 08 71 20 - Detention Hardware

Set 10.1\* – Detention Swinging – DHMD/DHMF, Trim on outside of Room.  
 Doors: 164, 165, 166, 167  
 \* See spec section 08 71 20 - Detention Hardware

Set 10.2\* – Detention Swinging – DHMD/DHMF w/ Access Control, intercom & remote release  
 Doors: 191C, 191D  
 \* See spec section 08 71 20 - Detention Hardware

Set 10.3\* - Detention Grade - Passage doors & Closets – non locking  
 Doors: 161A, 161B, 168A, 168B  
 \* See spec section 08 71 20 - Detention Hardware

Set 10.4\* – Detention Swinging Access Control on both sides  
 Doors: 152, 153, 160, 162A, 169, 170  
 \* See spec section 08 71 20 - Detention Hardware

Set 10.5 – Detention Swinging DHMD/DHMF Storage Closet, Locking  
 Doors: 155, 163  
 \* See spec section 08 71 20 - Detention Hardware

Set 11 – Corridor - Access Control – CR on Ext. & Int. Sides  
 Doors: C01B, 102B, 103B

2	Hinges	By HDW Contractor	US26D	ST
1	Elect. Hinges	By HDW Contractor	US26D	ST
1	Elect Strike Mortise Lock	195RDW/26D	626	MA
2	Card Reader	Furnished and Installed by the Security Contractor		BO
1	Core	By HDW Contractor	626	MD
1	Closer	By HDW Contractor	689	CR
3	Door Silencers	By HDW Contractor		DJ
1	Wall Bumper	By HDW Contractor	626	DJ
1	Harness	By HDW Contractor		ST
1	Wiring Diagram	Furnished by Hardware Supplier		BY
1	Power Transfer	By HDW Contractor		BY
1	Door Position Switch	By HDW Contractor	WHITE	BY
2	Backup Battery	By HDW Contractor		BY
1	Harness	By HDW Contractor		ST
1	Power Supply	By HDW Contractor		BY

Set 11.1 – Corridor - Access Control – CR on one side  
 Doors: 113, 122

2	Hinges	By HDW Contractor	US26D	ST
1	Elect. Hinges	By HDW Contractor	US26D	ST
1	Elect Strike Mortise Lock	195RF/26D	626	MA
1	Card Reader	Furnished and Installed by the Security Contractor		BO
1	Core	By HDW Contractor	626	MD
1	Closer	By HDW Contractor	689	CR

1	Overhead Stop	By HDW Contractor	689	DJ
3	Door Silencers	By HDW Contractor		DJ
1	Wall Bumper	By HDW Contractor	626	DJ
1	Harness	By HDW Contractor		ST
1	Wiring Diagram	Furnished by Hardware Supplier		BY
1	Power Transfer	By HDW Contractor		BY
1	Door Position Switch	By HDW Contractor	WHITE	BY
2	Backup Battery	By HDW Contractor		BY
2	Kick plate	By HDW Contractor		DJ
1	Harness	By HDW Contractor		ST
1	Power Supply	By HDW Contractor		BY

Set 11.2 – Corridor - Access Control – CR on one side  
 Doors: 106

2	Hinges	By HDW Contractor	US26D	ST
1	Elect. Hinges	By HDW Contractor	US26D	ST
1	Elect Strike Mortise Lock	195RF/26D	626	MA
1	Card Reader	Furnished and Installed by the Security Contractor		BO
1	Core	By HDW Contractor	626	MD
1	Closer	By HDW Contractor	689	CR
1	Overhead Stop	By HDW Contractor	689	DJ
3	Door Silencers	By HDW Contractor		DJ
1	Wall Bumper	By HDW Contractor	626	DJ
1	Harness	By HDW Contractor		ST
1	Wiring Diagram	Furnished by Hardware Supplier		BY
1	Power Transfer	By HDW Contractor		BY
1	Door Position Switch	By HDW Contractor	WHITE	BY
2	Backup Battery	By HDW Contractor		BY
2	Kick plate	By HDW Contractor		DJ
1	Harness	By HDW Contractor		ST
1	Power Supply	By HDW Contractor		BY

Set 11.4 – Interior - Access Control – CR on one side - Ballistic  
 Doors: 102A, 103A

2	Hinges	By HDW Contractor	US26D	ST
1	Elect. Hinges	By HDW Contractor	US26D	ST
1	Elect Strike Mortise Lock	195RAB/26D	626	MA
1	Card Reader	Furnished and Installed by the Security Contractor		BO
1	Core	By HDW Contractor	626	MD
1	Closer	By HDW Contractor	689	CR
3	Door Silencers	By HDW Contractor		DJ
1	Wall Bumper	By HDW Contractor	626	DJ
1	Harness	By HDW Contractor		ST
1	Wiring Diagram	Furnished by Hardware Supplier		BY
1	Power Transfer	By HDW Contractor		BY
1	Door Position Switch	By HDW Contractor	WHITE	BY
2	Backup Battery	By HDW Contractor		BY
1	Harness	By HDW Contractor		ST
1	Power Supply	By HDW Contractor		BY
1	Gasketing	By HDW Contractor		BY
1	Kick plate	By HDW Contractor		DJ

Set 11.4 – Interior - Access Control – CR on one side - Ballistic  
 Doors: 100A

4	Hinges	By HDW Contractor	US26D	ST
2	Elect. Hinges	By HDW Contractor	US26D	ST
2	Elect Strike Mortise Lock	195RAB/26D	626	MA
1	Card Reader	Furnished and Installed by the Security Contractor		BO
2	Core	By HDW Contractor	626	MD
2	Closer	By HDW Contractor	689	CR
6	Door Silencers	By HDW Contractor		DJ
2	Harness	By HDW Contractor		ST
1	Wiring Diagram	Furnished by Hardware Supplier		BY
2	Power Transfer	By HDW Contractor		BY
2	Door Position Switch	By HDW Contractor	WHITE	BY
2	Backup Battery	By HDW Contractor		BY
2	Harness	By HDW Contractor		ST
2	Power Supply	By HDW Contractor		BY
2	Gasketing	By HDW Contractor		BY
2	Wall stop	By HDW Contractor		BY
2	Kick plate	By HDW Contractor		DJ

END OF SECTION 08 71 00

## SECTION 08 71 20 - DETENTION HARDWARE

### PART 1 GENERAL

#### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Detention door hardware and related accessories.
  - 2. Electronic security system hardware devices and coordination.
  - 3. Installation and Systems Testing after the control center is connected and operational.
- B. Related Sections:
  - 1. Division 08: Door Hardware, including Part 1 requirements, which apply.
  - 2. Division 08: Detention Doors and Frames.
  - 3. Division 26: Electrical.

#### 1.2 SUBMITTALS

- A. Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedure Section.
- B. Product Data: Include Manufacturer's specifications and installation details, material descriptions, dimensions of individual components and profiles, and finishes.
  - 1. Indicate by transmittal that installation instructions have been distributed to the installer.
  - 2. Include photographs, catalog cuts, marked templates, and other data as may be required to show compliance with these specifications.
- C. Shop Drawings: Prepared by or under the supervision of the supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Provide details of electrified door hardware, indicating the following.
  - 1. Wiring Diagrams: Detail wiring for power, signal, and control systems and differentiate between manufacturer-installed and field-installed wiring. Include the following:
    - a. System schematic.
    - b. Point-to-point wiring diagram.
    - c. Riser diagram.
    - d. Elevation of each door.
  - 2. Detail interface between electrified door hardware and security system
- ~~D. Samples: For exposed door hardware of each scheduled type, in specified finish, full size. Tag with full description for coordination with the Door Hardware Schedule. Submit samples before, or concurrent with, submission of the final Door Hardware Schedule.
  - 1. Units that are acceptable and remain undamaged through submittal, review, and field comparison process may, after final check of operation, be incorporated into the Work, within limitations of keying requirements.~~
- E. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
  - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and

- Format for the Hardware Schedule.”
2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening.
    - a. Organize door hardware sets in same order as in the Door Hardware Schedule at the end of Part 3.
  3. Content: Include the following information:
    - a. Type, style, function, size, label, hand, and finish of each door hardware item.
    - b. Manufacturer of each item.
    - c. Fastenings and other pertinent information.
    - d. Location of each door hardware set, ~~cross-referenced to Drawings, both on floor plans and in door and frame schedule.~~
    - e. Explanation of abbreviations, symbols, and codes contained in schedule.
    - f. ~~Mounting locations for door hardware.~~ **Door and frame manufacturer drawings.**
    - g. ~~Door and frame sizes and materials.~~ **Door opening sizes.**
    - h. Description of each electrified door hardware function, ~~including location, sequence of operation, and interface with other building control systems.~~
    - i. ~~Sequence of Operation: Include description of component functions that occur in the following situations: authorized person wants to enter; authorized person wants to exit; unauthorized person wants to enter; unauthorized person wants to exit.~~
  4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
  5. Hardware Schedule Index: Furnish an index cross-referencing door number, Architect's hardware group, and supplier's hardware group.
- F. Keying Schedule: ~~Prepared by or under the supervision of supplier, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations.~~
- G. Product Certificates: Signed by manufacturers of electrified door hardware certifying that products furnished comply with requirements.
  1. Certify that door hardware approved for use on types and sizes of labeled fire doors complies with listed fire door assemblies.
- H. Qualification Data: For firms and persons specified in "Quality Assurance" Article.
  1. Include lists of completed projects with project names and addresses of architects and owners, and other information specified.
- I. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, indicating current products comply with requirements.
- J. Maintenance Data: For each type of door hardware to include in maintenance manuals specified in Division 1.
- K. Warranties: Special warranties specified in this Section.

### 1.3 QUALITY ASSURANCE

- A. Installer Qualifications:** ~~An experienced installer who has completed door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.~~ **An entity that employs installers and supervisors who are trained and approved by manufacturer and an authorized representative of detention door hardware manufacturer for installation and maintenance of units required for this Project.**
- B. Supplier Qualifications:** Door hardware supplier with warehousing facilities in Project's vicinity ~~and who is or employs a qualified Architectural Hardware Consultant, available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying.~~
- ~~1. Electrified Door Hardware Supplier Qualifications: An experienced door hardware supplier who has completed projects with electrified door hardware similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance, and who is acceptable to manufacturer of primary materials.~~
    - ~~a. Engineering Responsibility: Prepare data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.~~
  - 2. Detention Door Hardware Supplier Qualifications: An experienced detention door hardware supplier who has completed projects with electrically powered detention door hardware similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance, and who is acceptable to manufacturer of primary materials.**
  - ~~3. Scheduling Responsibility: Preparation of door hardware and keying schedules.~~
- C. Source Limitations:** Obtain each type and variety of door hardware from a single manufacturer, unless otherwise indicated.
1. Provide electrified door hardware **locks** from same manufacturer as mechanical door **locks** hardware, unless otherwise indicated. ~~Manufacturers that are listed to perform electrical modifications, by a testing and inspecting agency acceptable to authorities having jurisdiction, are acceptable.~~
- D. Regulatory Requirements:** Comply with provisions of the following:
- 1 Where indicated to comply with accessibility requirements, comply with Americans with Disabilities Act (ADA), "Accessibility Guidelines for Buildings and Facilities (ADAAG)," ANSI A1 17.1, as follows:
    - a. Handles, Pulls, Latches, Locks, and other Operating Devices: Shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist.
    - b. Door Closers: Comply with the following maximum opening-force requirements indicated:
      - i. Interior Hinged Doors: 5 lbf (22.2 N) applied perpendicular to door.
      - ii. Sliding or Folding Doors: 5 lbf (22.2 N) applied parallel to door at latch.
    - c. Thresholds: Not more than 1/2 inch (13 mm) high. Bevel raised thresholds with a slope of not more than 1:2.
  2. NFPA 101: Comply with the following for means of egress doors:
    - a. Latches, Locks, and Exit Devices: Not more than 15 lbf (67 N) to release the latch. Locks shall not require the use of a key, tool, or special knowledge for operation.
    - b. Door Closers: Not more than 30 lbf (133 N) to set door in motion and not more than 15 lbf (67 N) to open door to minimum required width.
  3. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by a

testing agency acceptable to authorities having jurisdiction.

- E. Fire-Rated Door Assemblies: Provide door hardware for assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 252.
  - 1. Test Pressure: Test at atmospheric pressure.
- F. Keying Conference: Conduct conference at Project site to comply with requirements in Division I Section "Project Meetings." incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:
  - 1. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
  - 2. Preliminary key system schematic diagram.
  - 3. Requirements for key control system.
  - 4. Address for delivery of keys.
- G. Pre-Installation Conference: Conduct conference at Project site. Review methods and procedures related to electrified door hardware including, but not limited to, the following:
  - 1. Inspect and discuss electrical roughing-in and other preparatory work performed by other trades.
  - 2. Review sequence of operation for each type of electrified door hardware.
  - 3. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
  - 4. Review required testing, inspecting, and certifying procedures.

#### 1.4 DELIVERY, STORAGE AND HANDLING

- A. Inventory door hardware on receipt and provide dry, secure lock-up for door hardware delivered to Project site.
- B. Provide a packing list and a copy of the approved Door Hardware Schedule for each shipment of detention hardware. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package. Include necessary screws, keys, and templates.
- C. Prior to scheduled completion of the Project, deliver keys to Owner's representative by registered mail or other secure means.

#### 1.5 COORDINATION

- A. Assume sole responsibility for provision, coordination, and function of security hardware required for every opening, whether or not listed in the schedule of hardware.
- B. Coordinate layout and installation of hardware with adjacent construction, including, but not limited to, door's and frames. Cast anchoring inserts into concrete. Concrete, reinforcement, and formwork requirements are specified in Division 3 Section "Cast-in-Place Concrete."
- C. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing door hardware, including electronic security devices. Prior to ordering products, check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to

comply with indicated requirements, and that products selected will properly fit.

- D. Electronic Security System and Hardware: Coordinate layout and installation of electrified door hardware and security system devices with connections to power supplies and security system for proper operation.

## 1.6 WARRANTY

- A. General Warranty: Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Special Warranty: Written warranty, executed by manufacturer agreeing to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period. Failures include, but are not limited to, the following:
  - 1. Structural failures including excessive deflection, cracking, or breakage.
  - 2. Faulty operation of operators and door hardware.
  - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
- C. Warranty Period: Three years from date of Substantial Completion, unless otherwise indicated.
  - 1. For the first 24 months of the warranty period, maintain or replace at no cost to the Owner, any material failing to perform in accordance with this Specification.
  - 2. After the first 24 months, and for the following 24 months, provide to the Owner for Owner's installation, any material failing to perform in accordance with this Specification.

## 1.7 MAINTENANCE SERVICE AND OWNER INSTRUCTIONS

- A. Manufacturer and supplier shall conduct a formal training course with the Owner's security personnel. The course shall be given at the installation site or at a location agreed upon by the Owner.
  - 1. Provide a minimum of ~~80~~ **8** hours of instruction, ~~40 of which shall be held prior to occupancy and the remaining 40 within two months following the completion of the maintenance period.~~
  - 2. Provide course emphasis on understanding system capabilities, routine preventive maintenance, ~~and required security staff responses.~~
  - 3. Include a detailed training manual covering the items outlined above, for Owner's use during instruction.
- B. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and detailed maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.
- C. Maintenance Service: Beginning at Substantial Completion, provide twelve months' full maintenance by skilled employees of door hardware Installer. Include quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door hardware operation. Provide parts and supplies as used in the manufacture and installation of original products.

## PART 2 PRODUCTS

### 2.1 GENERAL

- A. Materials: All materials required for the Work shall be produced especially for security applications and conform to standards of the security equipment industry and other requirements specified herein.
- B. Security Hardware: Furnishing and installation of all security hardware and all incidental items required to make the system properly function as specified herein are responsibility of the detention equipment Installer.
- C. Available Products and Manufacturers: "Basis of Design" products are those included in the Schedule of Hardware Groups at the end of Part 3 of this Section. No substitutions are allowed.

### 2.2 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in this Section and the Door Hardware Schedule at the end of Part 3.
  - 1. Door Hardware Sets: Requirements for quantity, item, design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Schedule at the end of Part 3. Products are identified by descriptive titles corresponding to requirements specified in Part 2.
  - ~~2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.~~
  - ~~3. Finish: All exposed hardware except closers shall be satin stainless steel, ANSI 630 (US32D). Closer finish shall match stainless steel. Items not available in stainless steel shall be furnished with a satin chrome finish ANSI 626 (US26D).~~

### 2.3 HINGES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Basis of Design: Stanley
  - 2. Other Acceptable manufacturers:
    - a. Brink Locking Systems.
    - b. Folger Adam
    - c. Southern Steel Company.
- B. Standards: Comply with the following:
  - 1. Butts and Hinges: BHMA A156.1.
  - 2. Template Hinge Dimensions: BHMA A156.7.
- C. Quantity: Provide the following, unless otherwise indicated:
  - 1. Two Hinges: For doors with heights up to 60 inches (1524 mm), an additional unit for every additional 30 inches (762mm) in height or fraction thereof, and an additional unit for doors over 36 inches (915mm) in width.
- D. Template Requirements: Provide only template-produced units.
- E. Hinge Base Metal: Unless otherwise indicated, provide the following:

1. Stainless steel, with stainless-steel pin.
- F. Hinge Options: Comply with the following where indicated in the Door Hardware Schedule or on Drawings:
  1. Hospital Tips: Slope ends of hinge barrel.
  2. Shear resistant studs
  3. 1/4-20 TORX drive (with safety stud).
  4. Ball bearing or concealed bearing.
- G. Fasteners: Comply with the following:
  1. Screws: TORX head screws; machine screws (drilled and tapped holes) for metal doors. Finish screw heads to match surface of hinges.

## 2.4 LOCKS AND LATCHES, GENERAL

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  1. Mechanical Locks and Latches: Medeco High Security Locks, Inc.
  2. Electromechanical Locks and Latches:
    - a. ~~Best Stanley Security (Basis of Design)~~
    - b. Folger Adam Security Inc.: Assa Abloy.
    - c. ~~Sargent Manufacturing Company; Assa Abloy~~
    - d. ~~Schlage Lock Company; Allegion.~~
    - e. Southern Steel Co.
- B. Standards: Comply with the following:
  1. Mortise Locks and Latches: BHMA A156.13.
- C. Certified Products: Provide door hardware listed in the following BHMA directories:
  1. Mechanical Locks and Latches: BHMA's "Directory of Certified Locks & Latches."
  2. Electrified Locking Devices.
- D. Security Locks.
  1. **Maximum Security – Motor Operation**
    - a. **Series/Manufacturer:**
      - 1) 10120AM/Southern Steel Co.
      - 2) 9724/Airteq
      - 3) 5026M x MCLH-M/Brink
      - 4) 126M-1-02/Folger Adam
    - b. **Frame mounted 24 VDC lock, continuous duty motor actuated**
    - c. **Bolt is retracted by an energized motor by a push-button at the control panel and remains retracted until door is opened**
    - d. **Bolt is retracted manually by key from outside and inside.**
    - e. **Provide galvanized at exterior installations.**
    - f. **Provide interlock feature as required.**
    - g. **Internal switches monitor status of bolt.**
    - h. **Provide key cylinder extension.**
  2. **Maximum Security – Electrical Operation**
    - a. **Series/Manufacturer:**
      - 1) 10120AE-2/Southern Steel Co.
      - 2) 9712/Airteq
      - 3) 5026S x MCLH-M/Brink
      - 4) 126E-1-02/Folger Adam
    - b. **Frame mounted 115 VAC lock, continuous duty solenoid actuated**

- c. Bolt is retracted electrically by a push-button at the control panel and remains retracted until door is opened
  - d. Bolt is retracted manually by key from outside and inside.
  - e. Provide galvanized at exterior installations.
  - f. Provide interlock feature as required.
  - g. Internal switches monitor status of bolt.
  - h. Provide key cylinder extension.
3. Maximum Security – Motor Operation
- a. Series/Manufacturer:
    - 1) 10120AM-1/Southern Steel Co.
    - 2) 9724M/Airteq
    - 3) 5022M x MCLH-M/Brink
    - 4) 122M-1-02/Folger Adam
  - b. Frame mounted 24 VDC lock, continuous duty motor actuated
  - c. Bolt is retracted by an energized motor by a push-button at the control panel and remains retracted until door is opened
  - d. Bolt is retracted manually by key from outside and inside.
  - e. Provide galvanized at exterior installations.
  - f. Provide interlock feature as required.
  - g. Internal switches monitor status of bolt.
4. High Security
- a. Series/Manufacturer:
    - 1) 10300M/Southern Steel
    - 2) 9424/Airteq
    - 3) 3020M/Brinks
    - 4) NS406M/Folger Adam
  - b. Frame mounted 24 VDC high torque gear motor lock.
  - c. Bolt retracts when motor is energized and remains retracted until door is opened.
  - d. Bolt is retracted manually by key from outside and inside.
  - e. Provide interlock feature as required.
  - f. Internal switches monitor status of bolt.
  - g. Provide key cylinder extension.
5. Maximum Security - Mechanical Operation:
- a. Series/Manufacturer:
    - 1) 1080A-2/Southern Steel Co.
    - 2) 5080/Airteq
    - 3) 7080/Brinks
    - 4) 86/Folger Adam
  - b. Door mounted, deadbolt.
  - c. Lever tumbler, key outside and inside.
  - d. Supply with hollow metal lock mounting, escutcheons, and security screws.
  - e. Provide keeper with built-in limit switch where scheduled.
  - f. Provide 3/4" inch throw latchbolt
  - g. Provide galvanized at exterior/wet locations.
6. Maximum Security - Mechanical Operation:
- a. Series/Manufacturer:
    - 1) 1080A-1/Southern Steel Co.
    - 2) 5080/Airteq
    - 3) 7080/Brinks
    - 4) 82/Folger Adam
  - b. Door mounted, deadbolt.

- c. Lever tumbler, key outside only.
- d. Supply with hollow metal lock mounting, escutcheon, and security screws.
- e. Provide keeper with built-in limit switch where scheduled.
- f. Provide  $\frac{3}{4}$  inch throw latchbolt
- g. Provide galvanized at exterior/wet locations.

**7. Medium Security - Mechanical Operation: (Food Pass Lock)**

- a. Series/Manufacturer:
  - 1) 1017A/Southern Steel Co.
  - 2) 5017/Airteq
  - 3) 7017/Brink
  - 4) 17/Folger Adam
- b. Keyed outside only. (Key all food passes alike)
- c. Reverse bolt bevel at food pass locations. (Refer to details on drawings)

**E. Closers: (Recess Mounted)**

- 1. Series/Manufacturers:
  - a. 2210 Series with DPS/LCN
  - b. 7570 Series with DPS/Norton
  - c. \_ /Yale
- 2. Description:
  - a. Provide recessed door head closers U.N.O.
  - b. All door closers shall be by one manufacturer and carry a five (5) year warranty, except electrical components, which will carry a two year warranty. All door closers shall be inspected, after installation, by a factory representative to insure their proper adjustments and operations.
  - c. Spring power shall be adjustable. Spring power shall provide an opening force range of 8 to 15 pounds from 0 degrees to 90 degrees
  - d. Closers shall have separate adjustments for latch speed, general speed, and back check.
  - e. All parallel arm (when scheduled) closers shall be supplied with heavy duty rigid arms.
  - f. Provide accessories required to insure a proper installation.
  - g. Provide closer with door position switch, WHERE SCHEDULED. (Refer to hardware sets)

**F. Pull Loop:**

- 1. Series/Manufacturers:
  - a. 212-C/Southern Steel Co.
  - b. 612/Airteq
  - c. 300021/Brink
  - d. No. 2/Folger Adam
  - e. NW601/Northwest
- 2. Cast Manganese bronze, satin chrome plated. Overall length 8 3/4" x 1 1/2" clearance. Fasteners shall be 2-3/8" - 6 x 3/4" stainless steel Torx-head security screws with center reject pin.

**G. Pull Flush:**

- 1. Series/Manufacturer:
  - a. 214-S/Southern Steel Co.
  - b. 614/Airteq
  - c. 300011/Brink
  - d. No. 4/Folger Adam
  - e. NW602/Northwest

2. **Cast Manganese satin chrome plated 4" wide, 1/8" thick x 5" high. Fasteners shall be 1/4- 20 x 5/16" stainless steel Torx-head security screws with center reject pin.**

**H. Door Stops:**

1. **Series/Manufacturer:**
  - a. **650/Airteq (wall or floor)**
  - b. **3001/ Stanley (floor); 3002/ Stanley (wall)**
  - c. **462/Rockwood (wall); 463/Rockwood (floor)**
  - d. **606S/Northwest (wall or floor)**
  - e. **Southern Folger 420 (wall or floor)**
2. **Silicone rubber body, 2" diameter. 2 1/2" (3 "A") high.**
3. **5/8" x 2 1/2" diameter mounting shank.**
4. **Embedded in wall or floor with epoxy resin adhesive.**

**P. Cylinders, Keys, and Keying:**

1. **The security locks will incorporate three (3) keying systems, one for pin tumbler (mogul cylinder) locks, one for lever tumbler (paracentric) locks and one for builder's hardware high security six-pin tumbler cylinder locks. Stamp each keying system's keys for identification; corresponding to the final/approved Keying.**
  - a. **Key security door Food Pass locks alike (Mogul key) and provide twelve (12) keys with dye stamp identification marking.**

2.5 **CYLINDERS AND KEYING**

- A. **Manufacturers: Subject to compliance with requirements, provide products by the following:**
1. **Cylinders:**
    - a. ~~Medeco High Security Locks, Inc., NO SUBSTITUTIONS.~~
    - b. ~~See Division 8 Section "Door Hardware" for cylinder and keying system requirements.~~
    - c. **Detention Lock Manufacturer's standard cylinders.**
  2. **Key Quantity:**
    - a. ~~Six master keys per set.~~
    - b. **Two change keys for each Mogul, plus 100 blanks. Or Builders Cylinder**
    - c. ~~Two change keys for each Medeco cylinder, plus 100 blanks.~~
    - d. ~~Three Two cut Paracentric keys for each lock, plus 50 blanks.~~
  3. **Key Control Systems:**
    - a. ~~See Division 8 Section "Door Hardware".~~

2.6 **STRIKES**

- A. ~~Manufacturers: Subject to compliance with requirements, provide products by one of the following:~~
1. ~~Electric Strikes:~~
    - a. ~~Folger Adam Security Inc.~~
    - b. ~~Locknetics Security Engineering; a Harrow Company.~~
    - c. ~~Rutherford Controls Inc.; BEST Stanley Security~~
    - d. ~~Security Door Controls.~~

~~e. Von Duprin, Inc.; Allegion~~

~~B. Standards: Comply with the following:~~

- ~~1. Strikes for Bored Locks and Latches: BHMA A156.2.~~
- ~~2. Strikes for Mortise Locks and Latches: BHMA A156.13.~~
- ~~3. Strikes for Auxiliary Deadlocks: BHMA A156.5.~~
- ~~4. Electric Strikes: BHMA A156.5.~~

~~C. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:~~

- ~~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: Provide manufacturer's special strike box fabricated for aluminum framing.~~

## 2.7 OPERATING TRIM

A. For sliding door operation, as listed in the Schedule of Hardware Groups at the end of Part 3 of this Section.

## 2.8 CLOSERS

A. Manufacturers: Subject to compliance with requirements, provide products the following:

1. Surface-Mounted Closers:
  - a. LCN Closers; Allegion.
  - b. Stanley Commercial Hardware (~~Basis of Design~~)

B. Standards: Comply with the following:

1. Closers: BHMA A156.4.

## 2.9 STOPS AND HOLDERS

A. Wall/ Floor Stop Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include the following:

1. Basis of Design: Trimco Manufacturing.
2. Other Acceptable Manufacturers:
  - a. Hager Companies.
  - b. Rockwood Manufacturing Company.
  - c. **Ives**

B. Standards: Comply with the following:

1. Stops and Bumpers: BHMA A156.16.

C. Floor Stops: For doors, unless wall or other type stops are scheduled or indicated. Do not mount floor stops where they will impede traffic.

1. Where floor or wall stops are not appropriate, provide overhead holders.

## 2.10 DOOR GASKETING, GENERAL

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Hager Companies.
  - 2. National Guard Products, Inc. (Basis of Design)
  - 3. Pemko Manufacturing Co., Inc.
  - 4. Reese Enterprises, Inc.
  - 5. Zero International, Inc.
  - 6. Ives**
- B. Standard: Comply with BHMA A156.22.
- C. General: Provide continuous gasketing on exterior doors where indicated or scheduled. Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.
  - 1. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
  - 2. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.
- D. Air Leakage: Not to exceed 0.50 cfm per foot (0.000774 cu. m/s per m) of crack length for gasketing other than for smoke control, as tested according to ASTM E 283.
- E. Smoke-Labeled Gasketing: Assemblies complying with NFPA 105 are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke-control ratings indicated, based on testing according to UL 1784.
  - 1. Provide smoke-labeled gasketing on 20-minute-rated doors and on smoke-labeled doors.
- F. Fire-Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL 10B or NFPA 252.
- G. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated, based on testing according to ASTM E 1408.
- H. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- I. Gasketing Materials: Comply with ASTM D 2000 and AAMA 701/702.

## 2.11 THRESHOLDS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Hager Companies.
  - 2. National Guard Products, Inc. (Basis of Design)
  - 3. Pemko Manufacturing Co., Inc.
  - 4. Reese Enterprises, Inc.
  - 5. Zero International, Inc.
- B. Standard: Comply with BHMA A156.21.
- C. General:
  - 1. Fabricate with continuous grooved top surface.

- 2 Provide ADAAG-compliant profile with bevel on each long edge and in lengths to suit door openings.
- 3 Furnish with continuous channel anchors for casting into slab or with expansion devices, and with countersunk flat head machine screws, for attachments to substrates.

## 2.12 SLIDING DOOR OPERATORS AND HARDWARE

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  1. Airteq Locking Systems.
  2. Folger Adam.
  3. Southern Steel Co. (Basis of Design)
- B. Sliding Door Operators and Hardware: Provide complete sets consisting of rails, hangers, supports, bumpers, floor guides, and accessories indicated.
  1. Motor operated devices with a "kick release" door operating and locking mechanisms with remote controls for unlocking.
  2. Include control mechanisms and electrical components within horizontal housing.
  3. Door Carriages: Furnish sliding door carriages with solid steel mechanized wheels with sealed ball or needle bearings mounted on hardened steel spindles.
    - a. Include steel tracks in horizontal housing and bottom door guide to prevent door carriage from being dislodged.
    - b. Door hanger assembly shall so engage the track that it cannot be lifted off or forced out of alignment.
  4. Provide sealed bearings for the entire device including motor and all moving parts to minimize need for lubrication.
  5. Housing: Provide horizontal housing above sliding door for protection of operating and locking mechanisms.
    - a. Form front and top from one-piece 10-gauge sheet steel. Form back and bottom of housing from 3/16-inch open-hearth steel plate.
    - b. Protect slots in bottom of housing with covering angles or channel to prevent entrance of contraband and foreign matter into the operating and locking mechanisms.
  6. Fabrication: Fabricate items to be rigid, neat in appearance, and free of defects, warp or buckle. Accurately form metal to required sizes and profiles.
    - a. Pre-assemble items in the shop to the greatest extent possible, so as to minimize field splicing and assembly of units at the Project site. Disassemble units only to extent necessary for shipping and handling limitations. Clearly mark units for re-assembly and coordinated installation.
    - b. Form exposed work to true line and level with accurate angles and surfaces and straight, clean, and even edges. Ease exposed edges to a radius of approximately 1/32-inch unless otherwise shown. Form bent-metal corners to the smallest radius possible without causing grain separation or otherwise impairing the work.
    - c. Weld corners and seams continuously and in accordance with the recommendations of AWS. At exposed connections, grind exposed welds smooth and flush to match and blend with adjoining surfaces.
    - d. Provide for anchorage of the type shown coordinated with ae supporting structure. Fabricate and space anchoring devices to provide adequate support for the intended use of the Work.
    - e. Cut, reinforce, drill, and tap metal work indicated to receive security hardware and similar items of work. Cut holes in strict accordance with templates.

## 2.13 MISCELLANEOUS DOOR HARDWARE

- A. Monitor Switch Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Sentrol (Basis of Design).
  - 2. Airteq Locking Systems.
  - 3. Southern Steel (Basis of Design)
- B. Boxed Power Supplies: Modular unit in NEMA ICS 6, Type 4 enclosure; filtered and regulated; voltage rating and type matching requirements of door hardware served; and listed and labeled for use with fire alarm systems.
- C. Door Position Switches: Magnetically operated, triple-biased, balanced type switch designed for concealed mounting.
  - 1. Provide built-in, end-of-line resistors as required by the security control system.
  - 2. At swinging doors, locate switches in lock jamb 6 inches from head of door.

## 2.14 FABRICATION

- A. Manufacturer's Nameplate: Do not provide manufacturers' products that have manufacturer's name or trade name displayed in a visible location (omit removable nameplates) except in conjunction with required fire-rated labels and as otherwise approved by Architect.  
~~1. Manufacturer's identification will be permitted on rim of lock cylinders only.~~
- B. Base Metals: Produce door hardware units of base metal, 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 for finishes. Do not furnish manufacturer's standard materials or forming methods if different from specified standard.
- C. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to commercially recognized industry standards for application intended. 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. Steel Machine or Wood Screws: For the following fire-rated applications:
    - a. Mortise hinges to doors.
    - b. Strike plates to frames.
    - c. Closers to doors and frames.

## 2.15 FINISHES

- A. Standard: Comply with BHMA A156.18.
- 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.

- D. BHMA Designations: Unless noted otherwise, comply with base material and finish requirements indicated by the following:
1. BHMA 630: Satin stainless steel, over stainless-steel base metal.

### PART 3 EXECUTION

#### 3.1 EXAMINATION

- A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance of door hardware.
- 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: Comply with DHI AI I5 series.
1. Surface-Applied Door Hardware: Drill and tap doors and frames according to SDI 107.

#### 3.3 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated, or required to comply with governing regulations:
1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
- 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 work specified in Division 9 Sections. 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. Key Control System: Place keys on markers and hooks in key control system cabinet, as determined by final keying schedule.
- D. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

#### 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. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
  2. Door Closers: Adjust sweep period so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches (75 mm) from the latch, measured to the leading edge of ae door.
- B. Six-Month Adjustment: Approximately six months after date of Substantial Completion, Installer shall perform the following:
1. Examine and readjust each item of door hardware as necessary to ensure function of doors, door hardware, and electrified door hardware.
  2. Consult with and instruct Owner's personnel on recommended maintenance procedures.
  3. Replace door hardware items that have deteriorated or failed due to faulty design, materials, or installation of door hardware units.

### 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 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. Comply with Division 8 Section "Door Hardware" for additional demonstration and training requirements.

- 3.7 SCHEDULE OF SECURITY HARDWARE GROUPS: The Groups listed below indicate the items of hardware required for each opening. It is the Bidder's responsibility to accurately furnish the proper sizes, quantities, weights, gauge, and Design Intents as required by these specifications and as recommended by the manufacturers involved.

Manufacturer List:

<u>Code</u>	<u>Name</u>
ABH	ABH
BY	By Related Section
CR	Corbin Russwin
DJ	Don-Jo
MA	Marks
MD	Medeco
NG	National Guard
SA	Sargent
BO	By Owner/ Others
<b>SO</b>	<b>Southern Folger</b>

**ST Stanley**  
**IV Ives**  
**LCN LCN**

Finish List:

<u>Code</u>	<u>Description</u>
15	Satin Nickel Plate
28	Aluminum Anodized (Clear)
32D	Satin Stainless Steel
626	Satin Chromium Plated
628	Satin Aluminum, Clear Anodized
630	Satin Stainless Steel
689	Aluminum Painted
AL	Aluminum
CL	Clear
US32D	Stainless Steel, Dull

Hardware Sets

Set 10 – Detention Sliding – DHMD/DHMF Sliding Remote release  
 Doors: 154, 156, 157, 158, 159, 171, 172, 173, 174

1	Electric Locking System	<b>4110LPK-1 x 24VDC</b>		SO
<del>2</del>	<del>Recessed Pull</del>	<del>214S</del>	<del>630</del>	<del>BO</del>
1	Wiring Diagram	Furnished by Hardware Supplier		BY
<del>4</del>	<del>Power Transfer</del>	<del>By HDW Contractor</del>		<del>PR</del>
1	Door Position Switch	By HDW Contractor	WHITE	RCIN
1	Power Supply	By HDW Contractor		RC
1	<b>Raised Pull</b>	<b>212C Outside Cell</b>	<b>626</b>	<b>SO</b>

Set 10.1 – Detention Swinging – DHMD/DHMF, Trim **on both side** of Room.  
 Doors: 164, 165, 166, 167

3	Hinges	IHTCB1995 SRS 4 ½ x 4 1x2 TORX SCREWS	US32D	ST
1	<b>Lock</b>	<b>10514 x L/SK x 500C Mortise Lockset</b>		<b>SO</b>
<del>4</del>	<del>Entry Lock</del>	<del>195RAB/26D</del>	<del>630</del>	<del>MA</del>
<del>4</del>	<del>Cylinder Core</del>	<del>By HDW Contractor</del>	<del>626</del>	<del>MD</del>
<del>4</del>	<del>Wall Bumper</del>	<del>By HDW Contractor</del>	<del>626</del>	<del>DJ</del>
1	Sound Gasketing	By HDW Contractor @ Head & Jamb		BY
1	Threshold	By HDW contractor	AL	NA
4	<del>Kick Plate</del>	<del>By HDW contractor</del>	<del>630</del>	<del>DJ</del>
4	<del>Mop Plate</del>	<del>By HDW contractor</del>	<del>630</del>	<del>DJ</del>
1	<del>Wall Door Stop</del>	<del>420 where needed</del>	<del>US32D</del>	<del>SO</del>
3	<b>Door Silencers</b>	<b>SR64</b>		<b>IV</b>

Set 10.2 – Detention Swinging – DHMD/DHMF w/ Access Control, intercom & remote release  
 Doors: 191C, 191D

3	Hinges	IHTCB1995 SRS 4 ½ x 4 1x2 TORX SCREWS	US32D	ST
<del>4</del>	<del>Rim Cylinder</del>	<del>195RF/26D</del>	<del>626</del>	<del>BE</del>
<del>4</del>	<del>Core</del>	<del>By HDW contractor</del>	<del>626</del>	<del>BE</del>
<del>4</del>	<del>Electric Strike</del>	<del>By HDW contractor</del>	<del>630</del>	<del>RCIN1</del>

<b>1</b>	<b>Lock</b>	<b>10120AM-2 x 24VDC (No KCE. Provide key well in frame)</b>		<b>SO</b>
<b>1</b>	<b>Door Stop</b>	<b>420</b>	<b>626</b>	<b>SO</b>
1	Wiring Diagram	Furnished by Hardware Supplier		BY
1	Card Reader	By OIT/OWNER		
1	Intercom	By OIT/OWNER		
1	Remote Release	By OIT/OWNER		
<del>4</del>	<del>Power Transfer</del>	<del>By HDW Contractor</del>		<del>PR</del>
1	Door Position Switch	By HDW Contractor	WHITE	RCIN
2	Backup Battery	By HDW Contractor		BE
1	Power Supply	By HDW Contractor		RC
<b>1</b>	<b>Closer with DPS</b>	<b>2214 DPS</b>	<b>689</b>	<b>LCN</b>
<b>2</b>	<b>Raised Pulls</b>	<b>212C</b>	<b>626</b>	<b>SO</b>
<b>1</b>	<b>Weatherstrip</b>			
<b>1</b>	<b>Threshold</b>			
<b>1</b>	<b>Sweep</b>			

Set 10.3 – Detentions Swinging Passage  
 Doors: 161A, 161B, 168A, 168B

3	Hinges	IHTCB1995 SRS 4 ½ x 4 1x2 TORX SCREWS	US32D	ST
1	Passage Set	<b>10501 x L/L</b>	630	<b>SO</b>
1	<b>Door Stop</b>	<b>420</b>	689	DJ
<del>4</del>	<del>Sound Gasketing</del>	<del>By HDW Contractor @ Head &amp; Jambs</del>		<del>BY</del>
<del>4</del>	<del>Threshold</del>	<del>By HDW contractor</del>	<del>AL</del>	<del>NA</del>
<b>1</b>	<b>Closer with DPS</b>	<b>2214 DPS</b>	<b>689</b>	<b>LCN</b>
<b>3</b>	<b>Door Silencers</b>	<b>SR64</b>		<b>IV</b>

Set 10.4 – Detention Swinging Access Control on both sides  
 Doors: 152, 153, 160, 162A, 169, 170

3	Hinges	IHTCB1995 SRS 4 ½ x 4 1x2 TORX SCREWS	US32D	ST
<del>4</del>	<del>Rim Cylinder</del>	<del>195RF/26D</del>	<del>626</del>	<del>BE</del>
<del>4</del>	<del>Core</del>	<del>By HDW contractor</del>	<del>626</del>	<del>BE</del>
<del>4</del>	<del>Electric Strike</del>	<del>By HDW contractor</del>	<del>630</del>	<del>RCIN1</del>
<b>1</b>	<b>Lock</b>	<b>10300M-2 x KCE x 24VDC</b>		<b>SO</b>
<b>2</b>	<b>Raised Door Pull</b>	<b>212C</b>	<b>626</b>	<b>SO</b>
1	Door Stop	<b>420</b>	<b>626</b>	<b>SO</b>
1	Wiring Diagram	Furnished by Hardware Supplier		BY
2	Card Reader	By OIT/OWNER		
1	Power Transfer	By HDW Contractor		PR
1	Door Position Switch	By HDW Contractor	WHITE	RCIN
2	Backup Battery	By HDW Contractor		BE
1	Power Supply	By HDW Contractor		RC
<b>1</b>	<b>Closer with DPS</b>	<b>2214 DPS</b>	<b>689</b>	<b>LCN</b>
<b>3</b>	<b>Door Silencers</b>	<b>SR64</b>		<b>IV</b>
1	Kick Plate	By HDW contractor	630	TR

~~Set 10.5 – Detention Swinging DHMD/DHMF Storage Closet, Locking~~  
~~Doors: 155, 163~~

<del>3</del>	<del>Hinges</del>	<del>IHTCB1995 SRS 4 ½ x 4 1x2 TORX SCREWS</del>	<del>US32D</del>	<del>ST</del>
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1	Storeroom Lock	<b>1080A-1HM</b>	630	<b>SO</b>
1	Core	By HDW contractor	626	BE
1	Closer	<b>2215</b>	<b>689</b>	<b>SO</b>
1	Kick Plate	By HDW contractor	630	TR
1	Wall stop	By HDW Contractor		DJ
1	Door Sweep	By HDW contractor		NA
1	Raised Pull	212C Outside	626	SO

**Set 10.6 – Detention Swinging DHMD/DHMF Exterior w/Access Control, intercom & remote release Doors: 191A, 191B**

**NOTE: SECURITY ENTRANCE EGRESS DOOR AREA - DOOR SECURITY HARDWARE CONTROLLED BY OFFICE ON DUTY PER NFPA 101, 23.1.2.1.4 & 23.1.1.2.2**

3	Hinges	IHTCB1995 SRS 4 ½ x 4 1x2 TORX SCREWS	US32D	ST
1	Lock	10120AE-2NL		SO
1	Door stop	420		SO
2	Intercoms	by OIT/Owner		
2	Card readers	by OIT/Owner		
1	Remote release	by OIT/Owner		
1	Closer with DPS	2215DPS	689	SO
2	Raised Pulls	212C	626	SO
1	Weatherstrip			
1	Threshold			
1	Sweep			

**Set 10.7 – Detention Access Panels – Mechanical Lock. Pipe Chases and Access Panels in Security Metal Ceilings, See plans and elevations**

2	Hinges	By Access Panel Mfg.		
1	Deadbolt Lock	1010A-1		SO

END OF SECTION 08 71 20

LIGHT FIXTURE SCHEDULE					
TYPE	DESCRIPTION	VOLT	MOUNTING	LAMPS	MANUFACTURER/MODEL #
A	24" X 24" HIGH ABUSE LED FIXTURE WITH DIE FORMED, SEAM WELDED, STAINLESS STEEL HSG, PRISMATIC TEMP GLASS, TAMPER RESISTANT HARDWARE, WHITE POWDER COAT FINISH AND 0-10V DIMMING	MVOLT	RECESSED	50W LED 5500 LUMENS 3500K	NEW STAR 37M-22-B/B-L4-35-1C-3/C-UN-DM-PF
B1	2X2 LED TROFFER	MVOLT	RECESSED	29.5W LED 2816 LUMENS 3500K	H E WILLIAMS AT3-22-L30/835-D-DIM-UNV
B2	2X4 LED TROFFER	MVOLT	RECESSED	34.2W LED 3874 LUMENS 3500K	H E WILLIAMS AT3-24-L40/835-D-DIM-UNV
C	48" DIRECT/INDIRECT WALL MOUNTED LED FIXTURE WITH EXTRUDED ALUMINUM HSG, DIFFUSED ACRYLIC LENS	MVOLT	SUSPENDED	27.2W LED 3172 LUMENS 3500K	H E WILLIAMS MX2WUD-400-L4/835U/L4/835D-S-FA/ F-DIM-UNV
C1	4' GASKETED & LENSED STRIP LIGHT	MVOLT	SURFACE	30W LED 4086 LUMENS 4000K	H E WILLIAMS 96-4-L40/840-HIAFR-DIM-UNV
C2	4' GASKETED & LENSED STRIP LIGHT	MVOLT	SURFACE	65W LED 8121 LUMENS 4000K	H E WILLIAMS 96-4-L81/840-HIAFR-DIM-UNV
D	6" LED ROUND RECESSED DOWNLIGHT	MVOLT	RECESSED	19W LED 1992 LUMENS 3500K	H E WILLIAMS 6DR-L20/835-DIM-UNV-RW-OF-WH- N-F1
D1	6" LED SQUARE RECESSED DOWNLIGHT	MVOLT	RECESSED	22.5W LED 1992 LUMENS 3500K	H E WILLIAMS 6DS-L20/835-DIM-UNV-RW-OF- WH-WET/CC-N-F1
D2	6" LED ROUND RECESSED WALL WASH DOWNLIGHT	MVOLT	RECESSED	8.7W LED 1014 LUMENS 3500K	H E WILLIAMS 6DR-L10/835-DIM-UNV-AWW-OF-WH- N-F1
E	LED EXIT SIGN	MVOLT	SURFACE	GREEN LED	H E WILLIAMS EXIT-G-EM-WHT-120/277
F	4' LED ROUND LENS STRIP LIGHT WITH CURVED ACRYLIC LENS	MVOLT	SURFACE/SUSPENDED	35.8W LED 5261 LUMENS 4000K	H E WILLIAMS 76R-4-L52/840-DIM-UNV
F1	2' LED NARROW STRIP LIGHT WITH CURVED ACRYLIC LENS	MVOLT	SURFACE/SUSPENDED	18.2W/FT LED 2470 LUMENS 3500K	H E WILLIAMS 75R-2-L25/835-DIM-UNV
L	4' LINEAR RECESSED UPLIGHTING COVE FIXTURE WITH SOLID STATE LEDS, HIGH OUTPUT OPTION AND 0-10V DIMMING	MVOLT	SURFACE/COVE	27.6W LED 7129 LUMENS 3500K	ELLIPTIPAR LIGHTING S317-H-4-S-00-M-0K-O-935-ZX
L1	2' LINEAR RECESSED UPLIGHTING COVE FIXTURE WITH SOLID STATE LEDS, HIGH OUTPUT OPTION AND 0-10V DIMMING	MVOLT	SURFACE/COVE	27.6W LED 7129 LUMENS 3500K	ELLIPTIPAR LIGHTING S317-H-2-S-00-M-0K-O-935-ZX

LIGHT FIXTURE SCHEDULE					
TYPE	DESCRIPTION	VOLT	MOUNTING	LAMPS	MANUFACTURER/MODEL #
S1	SINGLE LED EXTRUDED ALUMINUM LAMP POST WITH HAND HOLE, PRISMATIC TEMPERED GLASS, WHITE INTERNAL REFLECTOR, TYPE 3 DISTRIBUTION AND NERI GREY COLOR	277V	16' POLE	88.6W LED 12000 LUMENS 4000K	NERI PICTOR-16' 4 3/4"-1-FLANGE-TIIC-4000K-BASE COVER-NERI GRAY
S2	BACK TO BACK LED EXTRUDED ALUMINUM LAMP POST WITH HAND HOLE, PRISMATIC TEMPERED GLASS, WHITE INTERNAL REFLECTOR, TYPE 3 DISTRIBUTION AND NERI GREY COLOR	277V	16' POLE	88.6W LED 12000 LUMENS 4000K	NERI PICTOR-16' 4 3/4"-2-FLANGE-TIVC-4000K-BASE COVER-NERI GRAY
S3	SINGLE LED EXTRUDED ALUMINUM LAMP POST WITH HAND HOLE, PRISMATIC TEMPERED GLASS, WHITE INTERNAL REFLECTOR, TYPE 4 DISTRIBUTION AND NERI GREY COLOR	277V	16' POLE	88.6W LED 12000 LUMENS 4000K	NERI PICTOR-16' 4 3/4"-2-FLANGE-TIVC-4000K-BASE COVER-NERI GRAY
S4	BACK TO BACK LED EXTRUDED ALUMINUM POLE MOUNTED FIXTURE WITH HAND HOLE, PRISMATIC TEMPERED GLASS, WHITE INTERNAL REFLECTOR, TYPE 4 DISTRIBUTION AND NERI GREY COLOR	277V	16' POLE	88.6W LED 12000 LUMENS 4000K	NERI PICTOR-16' 4 3/4"-2-FLANGE-TIVC-4000K-BASE COVER-NERI GRAY
S5	DECORATIVE LED POLE LIGHTING FIXTURE WITH CAST ALUMINUM FIXTURE HEAD, OPAL TRANSLUCENT UV STABILIZED DIFFUSER, BLACK FINISH AND 0-10V DIMMING	MVOLT	10' - 4" ROUND POLE	33W LED 2812 LUMENS 3500K	LUMINUS LIGHTING EC610-L1L30-277-SD20-LV3-PT4-BKT
T	ACOUSTICAL TILE T-BAR LINEAR LED LIGHTING	MVOLT	SURFACE	4W/FT LED 486 LUMENS/FT 3500K	GOLDENEYE AL-0/5-SC-24-M-35K-80+-X
T1	SURFACE MOUNTED LINEAR DIRECT LED FIXTURE WITH OPTIONAL PERFORMANCE ENS AND 0-10V DIMMING	120/277	SURFACE	5W/FT LED 629 LUMENS/FT 3500K	AMERLUX CARISMA 2" CAR2-D-PL-SM-5-35-HW-120/277-8'- IND-0-10V
V	LINEAR LED CANOPY LIGHTING FIXTURE, WET LOCATION RATED	MVOLT	SURFACE/WALL	28.3W LED 2683 LUMENS 3500K	PAL LIGHTING ML3WL66-D-HO-K35-80-4-W-VR-F11T- EF-UNV-DIMX
W	ARCHITECTURAL WALL PACK IN VERTICAL CONFIGURATION WITH MICRO PRISMATIC GLASS LENS AND INTEGRAL PHOTOCCELL	MVOLT	WALL MOUNTED ABOVE DOOR	16W LED 1700 LUMENS 4000K	H E WILLIAMS WWMV-L17/840-TL-BLK-SDGL-PC-UNIV
W1	ARCHITECTURAL WALL PACK IN HORIZONTAL CONFIGURATION WITH CLEAR TEMPERED GLASS LENS AND INTEGRAL PHOTOCCELL	MVOLT	WALL MOUNTED @ 8' AFG	27W LED 2000 LUMENS 4000K	H E WILLIAMS WWMH-L20/830-T3-BLK-CGL-PC-UNV
X	FLAG POLE LED SPOTLIGHT	MVOLT	IN-GRADE	27W LED 2787 LUMENS 4000K	HEPER LIGHTING LF8018.694-US-N-700-840-0NOFF-HM1
Y	IN GRADE MONUMENT SIGN LIGHTING	MVOLT	SURFACE	5W/FT LED 445 LUMENS/FT 3500K	ALUZ A4-ZERA-ING-ASM-STS-30K-SW-IP67 -UNV-16'

△ LIGHTING FIXTURE NOTES: FIXTURES WITH 'V' DESIGNATIONS ARE TO BE PROVIDED WITH INTEGRAL BATTERY BACK UP FOR EMERGENCY OPERATION. FIXTURE BATTERY SHALL BE CONNECTED AHEAD OF ALL SWITCHING FOR CONTINUOUS CHARGING POWER TO BATTERY.

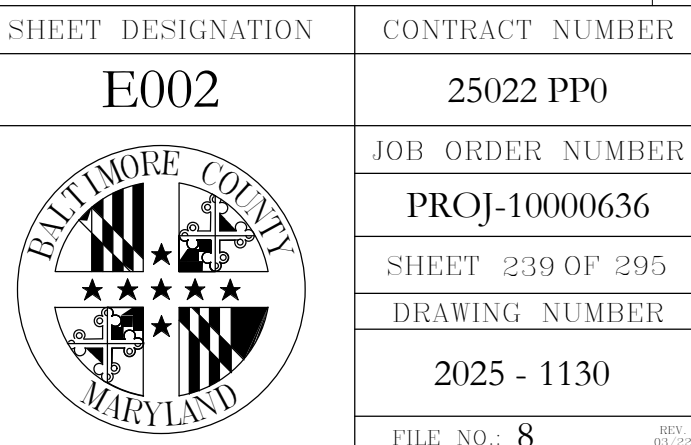
	PROFESSIONAL CERTIFICATION		AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHIT	DRAWING SCALE	PROPERTY MANAGEMENT	
	I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 51627, EXPIRATION DATE: 12-06-26		△ Addendum #3	KEC	12-18-25		ISW	7NE28 7NE29 8NE28 8NE29	PLAN SCALE: 1/2" = 1'-0"	APPROVED BY: _____	PROPERTY MANAGER
	ENGINEER: BOWMAN CONSULTING ENGINEERS		CONTRACT COMPLETION BOX						PROFILE SCALE: _____	DATE: _____	
	AS-BUILT PER RECORD PRINT		BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER	
BY: _____		DGN BY/ECU/DJT									
DATE: December 17, 2025		DWN BY: KEC	REVIEWED BY: _____								
		CHKD BY: DJT	DATE REVIEWED: _____								

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE - PROPERTY MANAGEMENT	
ESSEX POLICE PRECINCT - 11	
LIGHT FIXTURE SCHEDULE	
RENOVATION & ADDITION	
216 & 222 North Marlyn Ave, Essex, MD 21221	ELECTION DIST. NO.: 15C7
SUBDIVISION: ESSEX	

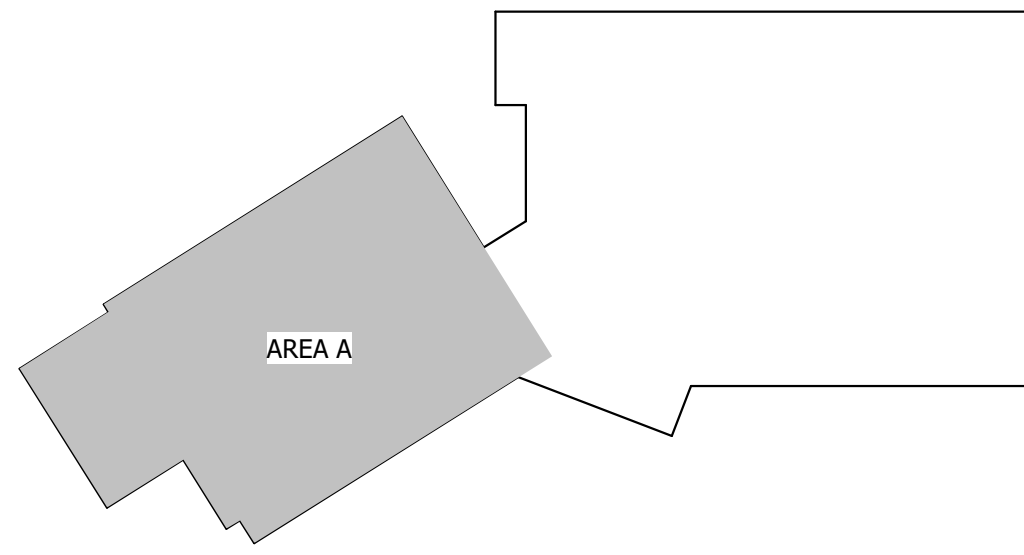
SHEET DESIGNATION	CONTRACT NUMBER
E002	25022 PP0
JOB ORDER NUMBER	PROJ-10000636
SHEET 239 OF 295	DRAWING NUMBER
	2025 - 1130
FILE NO. 8	

**Bowman**  
 300 East Joppa Road, Suite 501  
 Towson, MD 21286  
 410.494.1111  
 bowman.com  
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*Murphy & Dittenhafer*  
 ARCHITECTS



C:\Users\kwallon\Documents\Essex Police Station - Central File - Rev. 2021\_kwallon.rvt



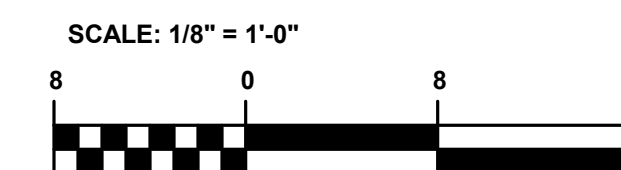
**KEY PLAN**  
SCALE: NONE

**GENERAL NOTES**

1. PROVIDE ALL WIRING REQUIRED FOR SWITCH LEGS AS NECESSARY.
2. UNLESS NOTED OTHERWISE, ALL OCCUPANCY SENSOR SHOWN ON THIS SHEET SHALL BE SET TO MANUAL-ON (VACANCY MODE). TOILETS & STAIR OCCUPANCY SENSORS SHALL BE SET TO AUTO-ON (OCCUPANCY MODE).
3. EMERGENCY (SHADED) LIGHT FIXTURES SHALL BE CONTROLLED BY LOCAL SWITCHING IN THE ROOMS/AREAS WITH SUBSCRIPT ADJACENT FIXTURE AND IN ROOMS WHERE ALL FIXTURES ARE ON EMERGENCY POWER, OTHERWISE EMERGENCY LIGHTING SHALL REMAIN UNSWITCHED.
4. ALL SWITCHED EMERGENCY (SHADED) LIGHT FIXTURES SHALL BE PROVIDED WITH A LISTED UL 924 RELAY PER SPECIFICATIONS.
5. UNLESS NOTED OTHERWISE, ALL NORMAL LIGHTING (NON SHADED) FIXTURES ON THIS SHEET SHALL BE CONNECTED TO CIRCUIT LPI-XX.
6. UNLESS NOTED OTHERWISE, ALL EXIT AND EMERGENCY LIGHTING (SHADED) FIXTURES ON THIS SHEET SHALL BE CONNECTED TO CIRCUIT LSEL-XX.



**BASEMENT PLAN - LIGHTING**  
SCALE: 1/8" = 1'-0"



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ARCHITECTS  
200 West Street, Baltimore, Maryland 21201  
410.528.4200  
226 West Street, Baltimore, Maryland 21201  
410.528.4200

SEAL	PROFESSIONAL CERTIFICATION	AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHIT	DRAWING SCALE	PROPERTY MANAGEMENT
	I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 51627, EXPIRATION DATE: 12-06-26.  ENGINEER: BOWMAN CONSULTING ENGINEERS AS-BUILT PER RECORD PRINT BY: _____ DATE: December 17, 2025	Addendum #3	KEC	12-18-25		ISW	7NE28 7NE29 8NE28 8NE29	PLAN SCALE: 1/8" = 1'-0" PROFILE SCALE:	APPROVED BY: _____ DATE: _____ PROPERTY MANAGER
		CONTRACT COMPLETION BOX							
		BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE - PROPERTY MANAGEMENT

ESSEX POLICE PRECINCT - 11  
BASEMENT PLAN - LIGHTING

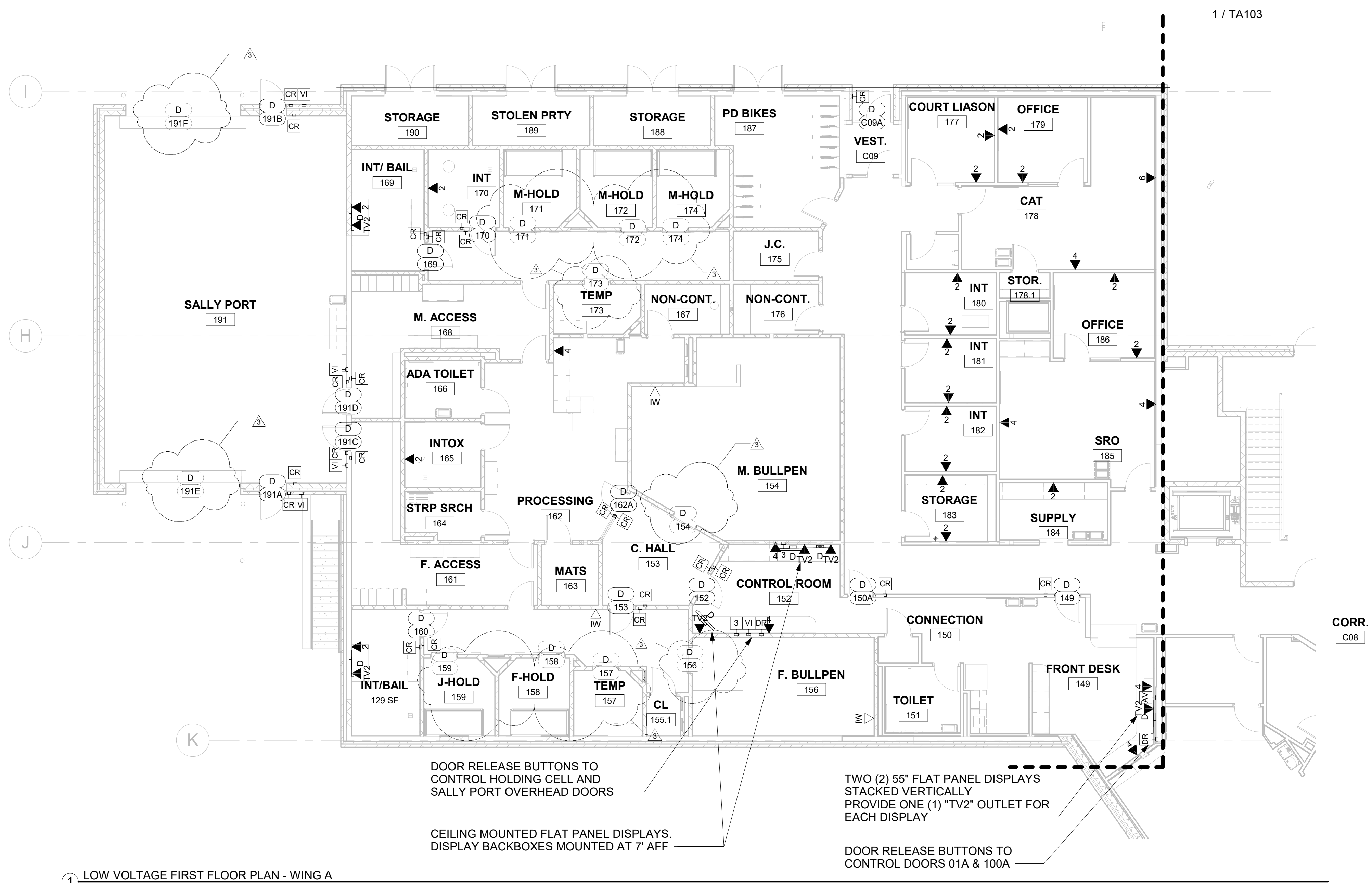
RENOVATION & ADDITION  
216 & 222 North Marlyn Ave, Essex, MD 21221

SUBDIVISION: ESSEX

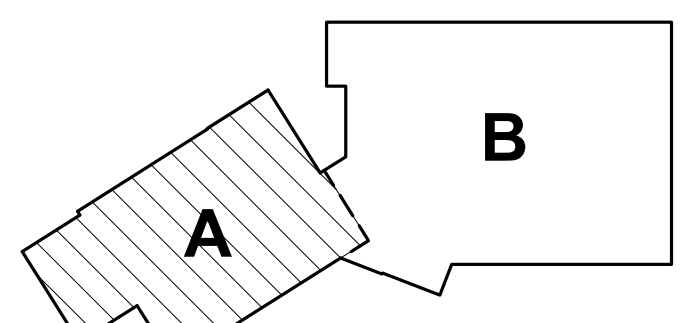
ELECTION DIST. NO.: 15C7

SHEET DESIGNATION	CONTRACT NUMBER
E201	25022 PP0
	JOB ORDER NUMBER
	PROJ-10000636
	SHEET 241 OF 295
	DRAWING NUMBER
	2025 - 1132
	FILE NO. - 8

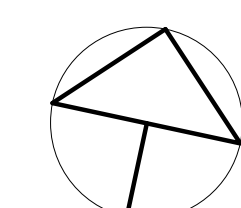
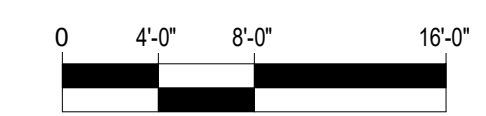




1 LOW VOLTAGE FIRST FLOOR PLAN - WING A  
1/8" = 1'-0"



KEY PLAN - WING A



SEM.	PROFESSIONAL CERTIFICATION	AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHI	DRAWING SCALE	PROPERTY MANAGEMENT
Bicsi	I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. ENGINEER: BRIAN WHITLOCK, RCDD, CTS-D EXPIRES 12-31-26	3 ADDENDUM #3	JM	12.19.25		ISW	7NE28 8NE28 8NE29	PLAN SCALE: As indicated PROFILE SCALE:	APPROVED BY: _____ DATE: _____ PROPERTY MANAGER
	AS-BUILT PER RECORD PRINT		BW						
			JM						
			BH						

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE - PROPERTY MANAGEMENT

ESSEX POLICE PRECINCT - 11  
LOW VOLTAGE FIRST FLOOR PLAN - WING A

RENOVATION & ADDITION

SUBDIVISION: ESSEX

216 North Marlyn Ave, Essex, Maryland, 21221

ELECTION DIST. NO.: 15C7

SHEET DESIGNATION	CONTRACT NUMBER
TA102	25022 PPO
	JOB ORDER NUMBER
	PROJ-10000636
	SHEET 282 OF 295
	DRAWING NUMBER
	2025-1173
	FILE NO.: 8



ELECTRONIC ACCESS CONTROL DOOR SCHEDULE							
Door Number	Door Type	Single/Double	Video Intercom	Door Contact	Door Contact (2nd Leaf)	Card Reader (Secure Side)	Card Reader (Unsecure Side)
02A	D	DOUBLE	No	Yes	Yes	No	Yes
03	D	DOUBLE	No	Yes	Yes	No	Yes
07B	D	SINGLE	No	Yes	No	No	Yes
100A	D	DOUBLE	No	Yes	Yes	No	Yes
100B	D	SINGLE	No	Yes	No	No	Yes
102A	D	SINGLE	No	Yes	No	No	Yes
102B	D	SINGLE	No	Yes	No	No	Yes
103A	D	SINGLE	No	Yes	No	No	Yes
103B	D	SINGLE	No	Yes	No	No	Yes
106	D	SINGLE	No	Yes	No	No	Yes
108	D	SINGLE	No	Yes	No	No	Yes
113	D	SINGLE	No	Yes	No	No	Yes
122	D	SINGLE	No	Yes	No	No	Yes
131	D	SINGLE	No	Yes	No	No	Yes
149	D	SINGLE	No	Yes	No	No	Yes
150A	D	SINGLE	No	Yes	Yes	No	Yes
152	D	SINGLE	No	Yes	No	Yes	Yes
153	D	SINGLE	No	Yes	No	Yes	Yes
160	D	SINGLE	No	Yes	No	Yes	Yes
162A	D	SINGLE	No	Yes	No	Yes	Yes
169	D	SINGLE	No	Yes	No	Yes	Yes
170	D	SINGLE	No	Yes	No	Yes	Yes
191A	D	SINGLE	Yes	Yes	No	Yes	Yes
191B	D	SINGLE	Yes	Yes	No	Yes	Yes
191C	D	SINGLE	Yes	Yes	No	Yes	Yes
191D	D	SINGLE	Yes	Yes	No	Yes	Yes
B01	D	SINGLE	No	Yes	No	No	Yes
C09A	D	SINGLE	No	Yes	No	No	Yes
154	D	SINGLE	No	Yes	No	No	No
156	D	SINGLE	No	Yes	No	No	No
157	D	SINGLE	No	Yes	No	No	No
158	D	SINGLE	No	Yes	No	No	No
159	D	SINGLE	No	Yes	No	No	No
171	D	SINGLE	No	Yes	No	No	No
172	D	SINGLE	No	Yes	No	No	No
173	D	SINGLE	No	Yes	No	No	No
174	D	SINGLE	No	Yes	No	No	No
191E	D	OVERHEAD	No	Yes	No	No	No
191F	D	OVERHEAD	No	Yes	No	No	No

Grand total: 39

3

	PROFESSIONAL CERTIFICATION		AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHI	DRAWING SCALE	PROPERTY MANAGEMENT	
	I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.		3	ADDENDUM #3	JM	12.19.25		ISW	7NE28 8NE28 8NE29	PLAN SCALE: _____ PROFILE SCALE: _____	APPROVED BY: _____ DATE: _____ PROPERTY MANAGER
	ENGINEER: BRIAN WHITLOCK, RCDD, CTS-D		CONTRACT COMPLETION BOX								
	AS-BUILT PER RECORD PRINT		DGN BY: BW	BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
BY: _____		DWN BY: JM	REVIEWED BY: _____								
DATE: JULY 14, 2025		CHD BY: BH	DATE REVIEWED: _____								

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE - PROPERTY MANAGEMENT

ESSEX POLICE PRECINCT - 11

ELECTRONIC ACCESS CONTROL DOOR SCHEDULE

RENOVATION & ADDITION

216 North Marlyn Ave, Essex, Maryland, 21221

SUBDIVISION: ESSEX

ELECTION DIST. NO.: 15C7

SHEET DESIGNATION	CONTRACT NUMBER
TA511	25022 PPO
JOB ORDER NUMBER	PROJ-10000636
SHEET 295 OF 295	DRAWING NUMBER
	2025-1186
FILE NO.: 8	

FINISHES:  
FF1 FACTORY STAIN

**ABBREVIATIONS LEGEND**

**DOOR MATERIAL:**  
HM: HOLLOW METAL (INSUL ON EXT)  
DM: DETENTION GRADE HOLLOW METAL (INSUL ON EXT)  
IM: INSULATED METAL  
ALUM: ALUMINUM (INSUL GLASS ON EXT)  
WD-1: STAIN-GRADE WOOD

**SECURITY:**  
CR: CARD READER  
DC: DOOR CONTACT  
AL: ALARMED DOOR  
VI: VIDEO INTERCOM

**GLASS:**  
FSG: FIRE RATED SAFETY GLAZING  
SG: SPECIAL GLAZING  
FR: PRIVACY FILM  
BG# BALLISTIC GLAZING & LEVEL # (VARIES)  
TG: 1/4" THK. CLEAR TEMPERED GLASS

**FRAME MATERIAL:**  
HM: HOLLOW METAL  
BHM: BALLISTIC LVL 3 HOLLOW METAL  
DM: DETENTION GRADE HOLLOW METAL (INSUL ON EXT)  
IM: INS. (INSULATED) METAL THERMAL BREAK  
SF: STOREFRONT (INSUL. GLASS ON EXT)  
FL: FRAMELESS (GWB)

**DOOR SCHEDULE**

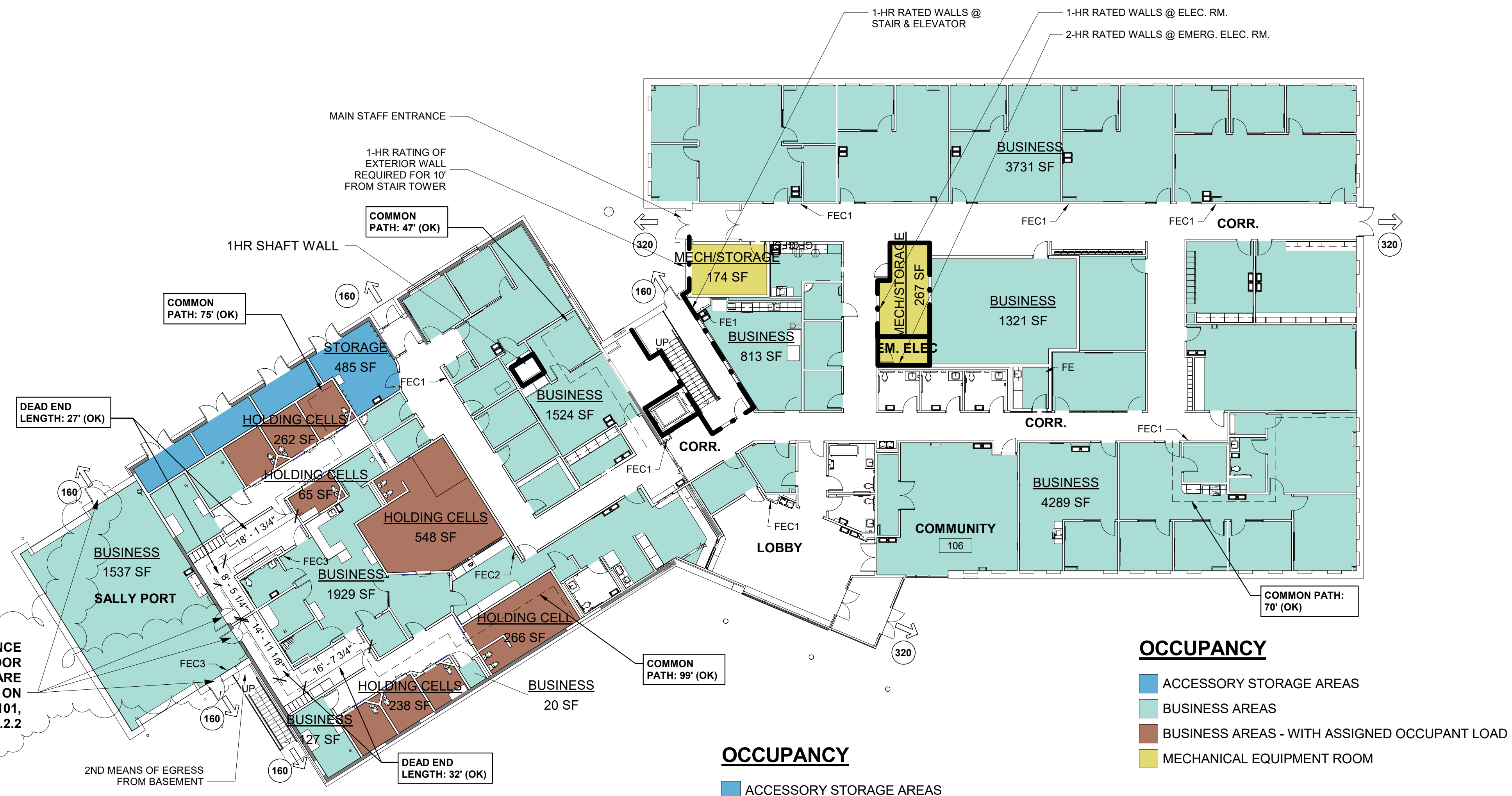
MARK	ROOM NAME	DIMENSIONS			THICKNESS	DOOR TYPE	DOOR		DOOR FRAME		CONSTR. DETAILS			FIRE RATED	HD W SET	FUN C.	COMMENTS & GLAZING, IF NOT NOTED GLAZING TO BE GL-6	
		WIDTH	HEIGHT	GLAZING			MATL.	FINISH	MATL.	FINISH	HEAD	JAMB	SIL L					SIL W
001	CORR.	3'-0"	7'-0"	1 3/4"	F	HM	PTD HM	FR-1	HM	PTD HM	H3	J4	S3	7	CL			
002	GEAR STORAGE	3'-0"	7'-0"	1 3/4"	F	HM	PTD HM	FR-1	HM	PTD HM	H3	J4	S3	7	CL			
02A	VEST.	6'-0"	7'-0"	1 3/4"	FG-R2	AL	MFR.	FR-6	AL	MFR.	H6	J12	S1	1.4	EN	CR from entrance side. Level 3 Ballistic Glazing. Removable mullion.		
02B	VEST.	6'-0"	7'-0"	1 3/4"	FG-R2	AL	MFR.	FR-1	AL	MFR.	H6	J9	S1	1.6	EN	Removable mullion.		
03	CORR.	6'-0"	7'-0"	1 3/4"	N	AL	MFR.	FR-10	AL	MFR.	H12	J12	S1	1.5	EO	Removable mullion. Level 3 Ballistic Glazing.		
003	CORR.	6'-0"	7'-0"	1 3/4"	J	HM	PTD HM	FR-1	HM	PTD HM	H2	J2	S3	7	PA	No mullion.		
004	WOMEN'S LOCKER	3'-0"	7'-0"	1 3/4"	N1	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	7	PA			
005	G.N. LOCKER	3'-0"	7'-0"	2"	L	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	2	PR	Sound Gasketing		
005A	G.N. W/C	3'-0"	7'-0"	2"	L	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	2	PR	Occupancy Indicator, Kickplate.		
005B	G.N. SHOWER	3'-0"	7'-0"	2"	L	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	2	PR	Occupancy Indicator, Kickplate.		
006	J.C.	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	8	ST	Sound Gasketing, Kick Plate, OVHD Holder		
007	WELLNESS	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	2	PR	Sound Gasketing, Occupancy Indicator.		
07A	STAIR	3'-0"	7'-0"	1 3/4"	F	HM	PTD HM	FR-1	HM	PTD HM	H1	J1	S3	1 HR	7	PA	Sound Gasketing	
07B	STAIR	3'-0"	7'-0"	1 3/4"	N1	HM	PTD HM	FR-6	IM	PTD HM	H12	J12	S3	1 HR	1.2	EN	CR from exterior side. Closer & exit device.	
008A	CORR.	3'-0"	7'-0"	1 3/4"	N1	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	7	PA	Sound Gasketing		
008B	CORR.	3'-0"	7'-0"	1 3/4"	F	HM	PTD HM	FR-1	HM	PTD HM	H3	J4	S3	7	PA	Sound Gasketing		
100A	LOBBY	6'-0"	7'-0"	1 3/4"	FG2	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	11.4	OF	CR from Lobby, Controlled by Front Desk. Level 3 Ballistic Glazing and Panels. Locked from Lobby, Mag lock. CR on exterior side controlled by Front Desk, GL-8.		
100B	LOBBY	3'-0"	7'-0"	1 3/4"	F	HM	PTD HM	FR-1	HM	PTD HM	H3	J4	S3	1.4	EN	CR from Lobby, Level 3 Ballistic Panel. Sound gasketing.		
102A	INT.	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	11.3	TBD	CR on Lobby side, Level 3 Ballistic Panel. Sound Gasketing.		
102B	INT.	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	11	TBD	CR from Interview Rm side, Sound Gasketing.		
103A	INT.	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	11.3	TBD	CR on ext. side, Level 3 Ballistic Panel. Sound Gasketing.		
103B	INT.	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	11	PR	CR from Interview Rm side.		
104	LOBBY	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	BHM	PTD HM	H3	J4	S3	2.1	PR	Level 3 Ballistic Panel. Sound Gasketing, Kickplate, Occupant indicator.		
105	REST.	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	BHM	PTD HM	H3	J4	S3	2.1	PR	Level 3 Ballistic Panel. Sound Gasketing, Kickplate, Occupant indicator.		
106	CORR.	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	11.2	ST	Access Control, CR from Community Rm.		
106A	COMMUNITY	6'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	7	ST	Furniture storage		
107	BREAK ROOM	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-3	HM	PTD HM	H3	J4	S4	6.1	OF	OVHD Holder		
108	IT	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	3	OF	CR from corridor, OVHD Holder		
109	OIT OFFICE	3'-0"	7'-0"	1 3/4"	FG	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	6.1	OF	Sound Gasketing, OVHD Holder		
110	CORR.	3'-0"	7'-0"	1 3/4"	F	HM	PTD HM	FR-1	HM	PTD HM	H3	J4	S3	8	ST	Sound Gasketing, OVHD Holder, Kick plate on both sides.		
112A	MAIN ELEC.	3'-0"	7'-0"	1 3/4"	F	HM	PTD HM	FR-1	HM	PTD HM	H3	J1	S3	1 HR	9	ST	Sound Gasketing, Kick plate on both sides, OVHD Holder	
112B	EM. ELEC	3'-0"	7'-0"	1 3/4"	F	HM	PTD HM	FR-6	HM	PTD HM	H3	J1	S3	2 HR	9	ST	Sound Gasketing, Kick plate on both sides.	
113	MECHANICAL	3'-0"	7'-0"	1 3/4"	F	HM	PTD HM	FR-6	HM	PTD HM	H2	J2	S3	11.1	ST	CR from corridor, Sound Gasketing, Kick plate on both sides, OVHD Holder		
114A	DETECTIVES	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-3	HM	PTD HM	H3	J4, J5	S4	5	OF	Sound Gasketing, OVHD Holder		
114B	FILES	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	7	ST	OVHD Holder		
115	OFFICE	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-4	HM	PTD HM	H3	J4, J5	S3	6.1	OF	Sound Gasketing, OVHD Holder		
116	OFFICE	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-4	HM	PTD HM	H3	J4, J5	S3	6.1	OF	Sound Gasketing, OVHD Holder		
117	OFFICE	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-3	HM	PTD HM	H3	J4, J5	S3	6.1	OF	Sound Gasketing, OVHD Holder		
118	SHIFT LEADERS	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-3	HM	PTD HM	H3	J4, J5	S4	5	OF	Sound Gasketing, OVHD Holder		
119	OFFICE	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-4	HM	PTD HM	H3	J4, J5	S3	6.1	OF	Sound Gasketing, OVHD Holder		
120	SHIFT LEADERS	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-3	HM	PTD HM	H3	J4, J5	S4	5	OF	Sound Gasketing, OVHD Holder		
121	OFFICE	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-5	HM	PTD HM	H3	J4, J5	S3	6.1	OF	Sound Gasketing, OVHD Holder		
122	ARMORY	3'-0"	7'-0"	1 3/4"	F	HM	PTD HM	FR-1	HM	PTD HM	H3	J1	S3	11.1	ST	CR from corridor, Sound Gasketing, OVHD Holder. Heavy Duty DR/FR - Level 2B; ANS/SDI A250.8 & 4		
123	SHIFT LEADERS	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-3	HM	PTD HM	H3	J4, J5	S4	5	OF	Sound Gasketing, OVHD Holder		
124	OFFICE	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-4	HM	PTD HM	H3	J4, J5	S3	6.1	OF	Sound Gasketing, OVHD Holder		
125A	BPI & TRAFFIC	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-3	HM	PTD HM	H3	J4, J5	S4	5	OF	Sound Gasketing, OVHD Holder		
125B	BPI & TRAFFIC	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-3	HM	PTD HM	H3	J4, J5	S4	5	OF	Sound Gasketing, OVHD Holder		
126	OFFICE	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-4	HM	PTD HM	H3	J4, J5	S3	6.1	OF	Sound Gasketing, OVHD Holder		
127	OFFICE	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-4	HM	PTD HM	H3	J4, J5	S3	6.1	OF	Sound Gasketing, OVHD Holder		
128	DVC	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-4	HM	PTD HM	H3	J4, J5	S3	6.1	OF	Sound Gasketing, OVHD Holder		
129A	ROLL CALL	3'-0"	7'-0"	1 3/4"	G	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	7	PA	Sound Gasketing, OVHD Holder		
129B	ROLL CALL	3'-0"	7'-0"	1 3/4"	G	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	7	PA	Sound Gasketing, OVHD Holder		
130	FILES	3'-0"	7'-0"	1 3/4"	N1	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	7	ST	Sound Gasketing, OVHD Holder		
131	EVIDENCE	3'-0"	7'-0"	1 3/4"	N1	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	4	ST	CR from corridor, Sound Gasketing, OVHD Holder		
132	REPORT	3'-0"	7'-0"	1 3/4"	N1	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	7	PA	Sound Gasketing, OVHD Holder		
133	RECEPT.	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-3	HM	PTD HM	H3	J4	S4	5	OF	Sound Gasketing, OVHD Holder		
135	OFFICE	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-4	HM	PTD HM	H3	J4	S3	6.1	OF	Sound Gasketing, OVHD Holder		
136	OFFICE	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-4	HM	PTD HM	H3	J4	S3	6.1	OF	Sound Gasketing, OVHD Holder		
137	FILES	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	7	ST	OVHD Holder		
138	LT. OFFICE	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-4	HM	PTD HM	H3	J4	S3	6.1	OF	Sound Gasketing, OVHD Holder		
139	CONFERENCE	3'-0"	7'-0"	1 3/4"	N1	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	6.1	OF	Sound Gasketing, OVHD Holder		
140A	CAPT. OFFICE	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	6.1	OF	Sound Gasketing, OVHD Holder		
140B	CL	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	7	PA	OVHD Holder		
141	TOILET	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	2	PR	Sound Gasketing, No indicator REQ'D.		
142	COMM. OUTREACH	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-3	HM	PTD HM	H3	J4, J5	S4	5	OF	Sound Gasketing, OVHD Holder		
143	OFFICE	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-4	HM	PTD HM	H3	J4, J5	S3	6.1	OF	Sound Gasketing, OVHD Holder		
144A	CONFERENCE	3'-0"	7'-0"	1 3/4"	FG	WD	WD-1	FR-1	HM	PTD HM	H6	J5	S3	6.1	OF	See interior storefront for frame, Sound gasketing, OVHD Holder, GL-6		
144B	CONFERENCE	3'-0"	7'-0"	1 3/4"	FG	WD	WD-1	FR-1	HM	PTD HM	H6	J5	S3	6.1	OF	See interior storefront for frame, Sound gasketing, OVHD Holder, GL-6		
145	G.C.	3'-0"	7'-0"	1 3/4"	F	HM	PTD HM	FR-1	HM	PTD HM	H1	J1	S3	8	ST	Sound Gasketing, Closer, OVHD Holder		
146	REST.	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	2	PR	Sound Gasketing, Occupancy Indicator, OVHD Closer		
147	REST.	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	2	PR	Sound Gasketing, Occupancy Indicator, OVHD Closer		
148	REST.	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	2	PR	Sound Gasketing, Occupancy Indicator, OVHD Closer		
149	FRONT DESK	3'-0"	7'-0"	1 3/4"	G	HM	PTD HM	FR-1	HM	PTD HM	H3	J4	S4	5	OF	CR on corridor side.		
150A	CORR.	3'-0"	7'-0"	1 3/4"	N1	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	5	OF	CR on corridor side, Security Glazing.		
150B	CL	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S4	1.3	ST			
151	TOILET	3'-0"	7'-0"	1 3/4"	F	WD	WD-1	FR-1	HM	PTD HM	H3	J4	S3	2	PR	Sound Gasketing, Occupancy Indicator.		

**DOOR SCHEDULE**

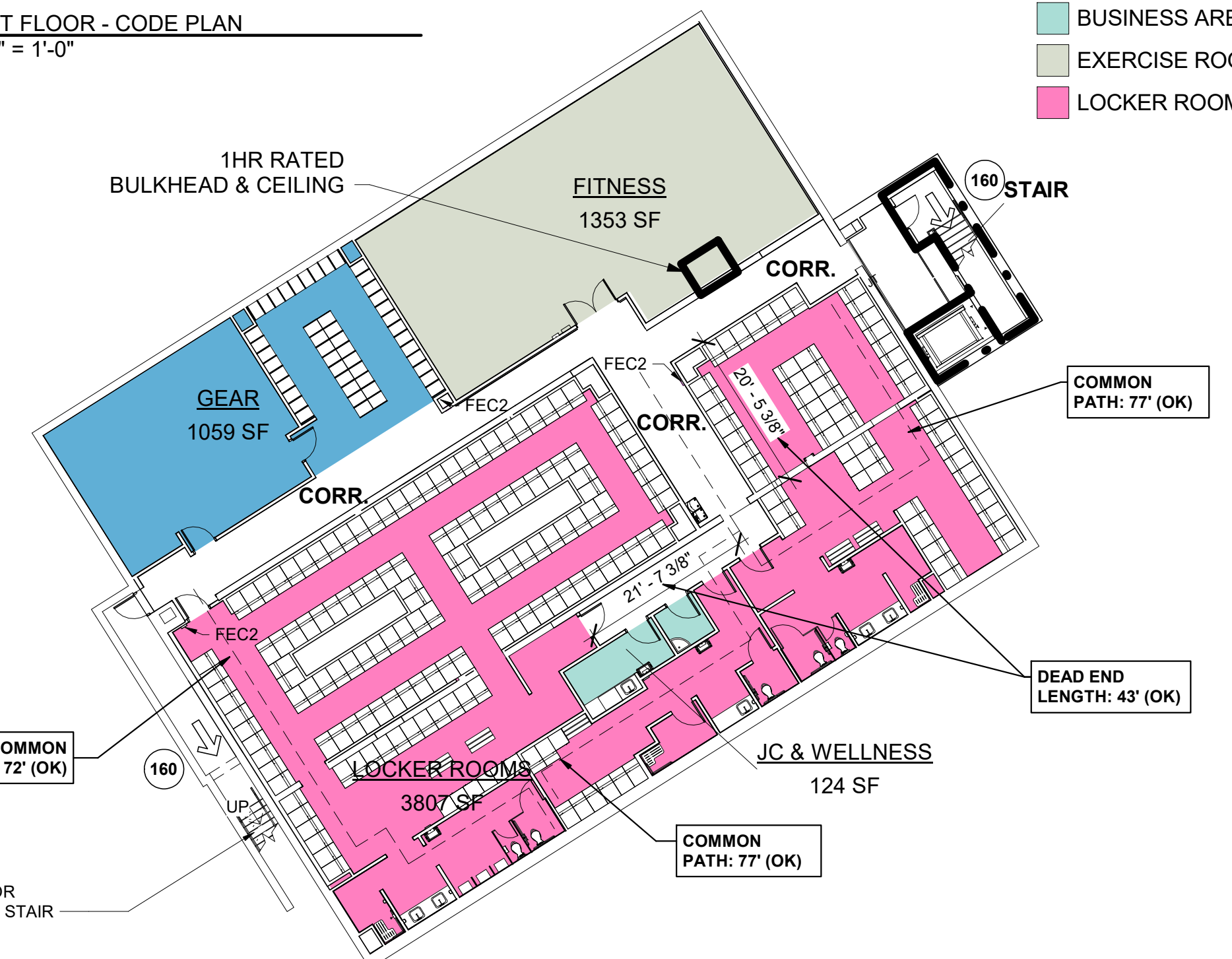
MARK	ROOM NAME	DIMENSIONS			THICKNESS	DOOR TYPE	DOOR		DOOR FRAME		CONSTR. DETAILS			FIRE RATED	HD W SET	FUN C.	COMMENTS & GLAZING, IF NOT NOTED GLAZING TO BE GL-6
		WIDTH	HEIGHT	GLAZING			MATL.	FINISH	MATL.	FINISH	HEAD	JAMB	SIL L				
152	CONTROL ROOM	3'-0"	7'-0"	2"	FG	DHM	PTD HM	FR-7	DHM	PTD HM	H2	J2	J5	S3	10.4	IS	Detention HM Storefront, Access Control, CR on both sides, Security Glazing, GL-9, Sound Gasketing.
153	C. HALL	3'-0"	7'-0"	1 3/4"	F	DHM	PTD HM	FR-1	DHM	PTD HM	H2	J2	S4	10.4	IS	CR on both sides, GL-7	
154	M. BULLPEN	3'-2 3/8"	7'-1 1/8"	2"	D1	DHM	PTD HM	FR-2	DHM	PTD HM	H9	J8	S2	10	DT	Detention Sliding Door, Detention Grade HDW, GL-10, Remote Release.	
155	CL	3'-0"	7'-0"	1 3/4"	F	HM	PTD HM	FR-6	HM	PTD HM	H2	J2	S4	8	ST	Louvered, Mech keyed for Facilities, Sound Gasketing.	
156	F. HALL	3'-2 3/8"	7'-1 1/8"	2"	D1	DHM	PTD HM	FR-2	DHM	PTD HM							

Area Schedule (Code Area Plans)					
Level	Name	TABLE 1004.1.1	Area	S.F.PerPerson XX	Persons
BASEMENT FLOOR	GEAR	ACCESSORY STORAGE AREAS	1059 SF	300	4
SUBTOTAL:			1059 SF		4
BASEMENT FLOOR	JC & WELLNESS	BUSINESS AREAS	124 SF	150	1
SUBTOTAL:			124 SF		1
BASEMENT FLOOR	FITNESS	EXERCISE ROOMS	1353 SF	50	28
SUBTOTAL:			1353 SF		28
BASEMENT FLOOR	LOCKER ROOMS	LOCKER ROOMS	3807 SF	50	77
SUBTOTAL:			3807 SF		77
FIRST FLOOR	STORAGE	ACCESSORY STORAGE AREAS	485 SF	300	2
SUBTOTAL:			485 SF		2
FIRST FLOOR	BUSINESS	BUSINESS AREAS	4289 SF	150	29
FIRST FLOOR	BUSINESS	BUSINESS AREAS	1929 SF	150	13
FIRST FLOOR	BUSINESS	BUSINESS AREAS	127 SF	150	1
FIRST FLOOR	BUSINESS	BUSINESS AREAS	20 SF	150	1
FIRST FLOOR	BUSINESS	BUSINESS AREAS	1537 SF	150	11
FIRST FLOOR	BUSINESS	BUSINESS AREAS	1524 SF	150	11
FIRST FLOOR	BUSINESS	BUSINESS AREAS	813 SF	150	6
FIRST FLOOR	BUSINESS	BUSINESS AREAS	3731 SF	150	25
FIRST FLOOR	BUSINESS	BUSINESS AREAS	1321 SF	150	9
SUBTOTAL:			15292 SF		106
FIRST FLOOR	HOLDING CELLS	BUSINESS AREAS - WITH ASSIGNED OCCUPANT LOAD	238 SF		
FIRST FLOOR	HOLDING CELL	BUSINESS AREAS - WITH ASSIGNED OCCUPANT LOAD	266 SF		
FIRST FLOOR	HOLDING CELLS	BUSINESS AREAS - WITH ASSIGNED OCCUPANT LOAD	548 SF		
FIRST FLOOR	HOLDING CELLS	BUSINESS AREAS - WITH ASSIGNED OCCUPANT LOAD	262 SF		
FIRST FLOOR	HOLDING CELLS	BUSINESS AREAS - WITH ASSIGNED OCCUPANT LOAD	65 SF		
SUBTOTAL:			1378 SF		0
FIRST FLOOR	MECH/STORAGE	MECHANICAL EQUIPMENT ROOM	174 SF	300	1
FIRST FLOOR	MECH/STORAGE	MECHANICAL EQUIPMENT ROOM	267 SF	300	1
SUBTOTAL:			441 SF		2
TOTAL:			23940 SF		220 (WITHOUT COMMUNITY ROOM AND HOLDING CELLS)

NOTE: REFER TO CODE SUMMARY FOR ASSIGNED OCCUPANT LOADS



3 FIRST FLOOR - CODE PLAN  
1/16" = 1'-0"



2 BASEMENT - CODE PLAN  
1/16" = 1'-0"

**OCCUPANCY**

- ACCESSORY STORAGE AREAS
- BUSINESS AREAS
- BUSINESS AREAS - WITH ASSIGNED OCCUPANT LOAD
- MECHANICAL EQUIPMENT ROOM

**OCCUPANCY**

- ACCESSORY STORAGE AREAS
- BUSINESS AREAS
- EXERCISE ROOMS
- LOCKER ROOMS

**LEGEND:**

- 2-HR RATED FIRE BARRIER
- 1-HR RATED FIRE BARRIER
- SMOKE-TIGHT PARTITION

All rated walls and partitions shall be permanently identified with signs or stenciling as follows:

A. Identification markings shall be located within accessible concealed floor, floor-ceiling and attic spaces.  
B. Identification markings shall be located within 15'-0" of the end of each wall and at intervals not exceeding 30'-0" measured horizontally along the wall or partition.  
C. Lettering shall not be less than 3" in height with a minimum 3/8" stroke in contrasting color incorporating the following wording: "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS".

**FIRE EXTINGUISHER & CABINET LEGEND**

- FEC1 = RECESSED FIRE PROTECTION CABINET AND EXTINGUISHER
- FEC2 = SEMI RECESSED FIRE PROTECTION CABINET AND EXTINGUISHER
- FEC3 = DETENTION GRADE SEMI RECESSED FIRE PROTECTION CABINET AND EXTINGUISHER
- FE = FIRE EXTINGUISHER ON WALL BRACKET

CAPACITY OF DOOR / STAIR

160

**CODE LEGEND**

SEAL	PROFESSIONAL CERTIFICATION	AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	PROPERTY MANAGEMENT
	THEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.	ADDENDUM #3	JAT	12/19/25		ISW	7NE28 7NE29 8NE28 8NE29	PLAN SCALE: 1/16" = 1'-0"	APPROVED BY: _____
	LICENSE NO. 6607, EXPIRATION DATE 06/13/2027	CONTRACT COMPLETION BOX						PROFILE SCALE: _____	DATE: _____
	ARCHITECT: Frank Elwood Dittenhafer, II DGN BY: JAT AS-BUILT PER RECORD PRINT BY: RLM DATE: 11/14/2025	BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE - PROPERTY MANAGEMENT

ESSEX POLICE PRECINCT - 11

CODE & LIFE SAFETY PLAN

RENOVATION & ADDITION

216 & 222 North Marlyn Ave, Essex, MD 21221

ELECTION DIST. NO.: 15C7

SUBDIVISION: ESSEX

Contract No. 25022 PPO  
Addendum No. 3  
Revised, December 23, 2025

**Murphy & Dittenhafer**  
ARCHITECTS

228 West Market Street, York, Pennsylvania 17403  
484.663.4000 ext. 4100  
17403-0000

SHEET DESIGNATION	CONTRACT NUMBER
CS-4	25022 PPO
JOB ORDER NUMBER	PROJ-10000636
SHEET 04 OF 295	DRAWING NUMBER
	2025-895
FILE NO.: 8	