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**JP COURT 4 LOBBY EXPANSION
408 E. STEIN HIGHWAY
SEAFORD, DELAWARE
DBF #0586B065.A01 ❖ OMB/DFM #MJ0213000001A
AUGUST 31, 2026**

ADDENDUM NO. 2

The following items shall become a part of the contract documents. Contractor must acknowledge receipt of this addendum on the Bid Form. Failure to do so may subject the Bidder to disqualification.

- Item No. 1 Delete sound attenuation batts from wall in location designated on revised A-101.
- Item No. 2 Per door schedule on revised A-601, Door 150 Basis-of-Design shall be Marvin Windows and Doors, Ultimate Commercial Door 2-1/4" thick doors: UCD2.25, or approved equal.
- Item No. 3 Panic hardware on Door 150 shall be revised to quiet electric latch retraction (QEL) series 98/99 by Von Duprin or approved equal. See revised Section 08 71 00 Door Hardware is attached to this addendum.
- Item No. 4 Revised sheet E-100 for modifications to power and data is attached to this addendum.

END OF ADDENDUM

SECTION 08 71 00

DOOR HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Hardware for wood, aluminum, and hollow metal doors.
- B. Hardware for fire-rated doors.
- C. Electrically operated and controlled hardware.
- D. Lock cylinders for doors with balance of hardware specified in other sections.
- E. Thresholds.
- F. Smoke and draft control seals.
- G. Weatherstripping and gasketing.

1.02 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate the manufacture, fabrication, and installation of products that door hardware is installed on.
- B. Sequence installation to ensure facility services connections are achieved in an orderly and expeditious manner.
- C. Preinstallation Meeting: Convene a preinstallation meeting four weeks prior to commencing work of this section; require attendance by affected installers and the following:
 - 1. Architect.
 - 2. Installer's Architectural Hardware Consultant (AHC).
 - 3. Hardware Installer.
 - 4. Owner's Security Consultant.
- D. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.
- E. Keying Requirements Meeting: Arrange meeting with Owner, Architect and finish hardware supplier to determine keying requirements immediately upon receipt of finishing hardware schedule.

1.03 SUBMITTALS

- A. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project, and includes construction details, material descriptions, finishes, and dimensions and profiles of individual components.
- B. Shop Drawings - Door Hardware Schedule: A detailed listing that includes each item of hardware to be installed on each door.
 - 1. Prepared by or under supervision of Architectural Hardware Consultant (AHC).
 - 2. Comply with DHI (H&S) using door numbering scheme and hardware set numbers as indicated in Contract Documents.
 - a. Submit in vertical format.
 - 3. List groups and suffixes in proper sequence.
 - 4. Include complete description for each door listed.
 - 5. Include manufacturer's and product names, and catalog numbers; include functions, types, styles, sizes and finishes of each item.
 - 6. Include account of abbreviations and symbols used in schedule.
- C. Shop Drawings - Electrified Door Hardware: Include diagrams for power, signal, and control wiring for electrified door hardware that include details of interface with building

safety and security systems. Provide elevations and diagrams for each electrified door opening as follows:

1. Prepared by or under supervision of Architectural Hardware Consultant (AHC) and Electrified Hardware Consultant (EHC).
 2. Elevations: Include front and back elevations of each door opening showing electrified devices with connections installed and an operations narrative describing how opening operates from either side at any given time.
 3. Diagrams: Include point-to-point wiring diagrams that show each device in door opening system with related colored wire connections to each device.
- D. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- E. Manufacturer's qualification statement.
- F. Installer's qualification statement.
- G. Supplier's qualification statement.
- H. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
1. Include manufacturer's parts lists and templates.
 2. Bitting List: List of combinations as furnished.
- I. Keying Schedule:
1. Submit three (3) copies of Keying Schedule in compliance with requirements established during Keying Requirements Meeting unless otherwise indicated.
- J. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
- K. Project Record Documents: Record actual locations of concealed equipment, services, and conduit.
- L. Maintenance Materials and Tools: Furnish the following for Owner's use in maintenance of project.
1. Tools: One set of each special wrench or tool applicable for each different or special hardware component, whether supplied by hardware component manufacturer or not.

1.04 QUALITY ASSURANCE

- A. Standards for Fire-Rated Doors: Maintain one copy of each referenced standard on site, for use by Architect and Contractor.
- B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented experience.
- C. Installer Qualifications: Company specializing in performing work of the type specified for commercial door hardware with at least three years of documented experience.
- D. Supplier Qualifications: Company with certified Architectural Hardware Consultant (AHC) and Electrified Hardware Consultant (EHC) to assist in work of this section.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Package hardware items individually; label and identify each package with door opening code to match door hardware schedule.

1.06 WARRANTY

- A. Manufacturer Warranty: Provide manufacturer warranty against defects in material and workmanship for period indicated, from Date of Substantial Completion. Complete forms in Owner's name and register with manufacturer.
1. Closers: Ten years, minimum.
 2. Exit Devices: Five years, minimum.
 3. Locksets and Cylinders: Ten years, minimum.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

- A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.
- B. Provide individual items of single type, of same model, and by same manufacturer.
- C. Locks: Provide a lock for each door, unless it's indicated that lock is not required.
 - 1. Lock Function: Provide lock and latch function numbers and descriptions of manufacturer's Series. As indicated in hardware sets.
 - 2. Trim: Provide lever handle or pull trim on outside of each lock, unless otherwise indicated.
 - 3. Strikes:
 - a. Finish: To match lock or latch.
 - b. Curved-Lip Strikes: Provide as standard, with extended lip to protect frame, unless otherwise indicated.
 - c. Center Strike At Pairs of Doors: 7/8 inch (22.2 mm) lip.
- D. Closers:
 - 1. Provide door closer on each exterior door, unless otherwise indicated.
 - 2. Provide door closer on each fire-rated and smoke-rated door.
 - 3. Spring hinges are not an acceptable self-closing device, unless otherwise indicated.
- E. Overhead Stops and Holders (Door Checks).
 - 1. Provide stop for every swinging door, unless otherwise indicated.
 - 2. Overhead Stop is not required if positive stop feature is specified for door closer; positive stop feature of door closer is not an acceptable substitute for a stop, unless otherwise indicated.
 - 3. Overhead stop is not required if a floor or wall stop has been specified for the door.
- F. Drip Guards: Provide at head of outswinging exterior doors unless protected by roof or canopy directly overhead.
- G. Thresholds:
 - 1. Exterior Applications: Provide at each exterior door, unless otherwise indicated.
- H. Smoke and Draft Control Seals:
 - 1. Provide gasketing for smoke and draft control doors that complies with local codes, requirements of assemblies tested in accordance with UL 1784.
- I. Weatherstripping and Gasketing:
 - 1. Provide weatherstripping on each exterior door at head, jambs, and meeting stiles of door pairs, unless otherwise indicated.
 - 2. Provide door bottom sweep on each exterior door, unless otherwise indicated.
- J. Electrically Operated and/or Controlled Hardware: Provide necessary power supplies, power transfer hinges, relays, and interfaces as required for proper operation; provide wiring between hardware and control components and to building power connection in compliance with NFPA 70.
- K. Fasteners:
 - 1. Provide fasteners of proper type, size, quantity, and finish that comply with commercially recognized standards for proposed applications.
 - a. Aluminum fasteners are not permitted.
 - b. Provide phillips flat-head screws with heads finished to match door surface hardware unless otherwise indicated.
 - 2. Provide machine screws for attachment to reinforced hollow metal and aluminum frames.
 - a. Self-drilling (Tek) type screws are not permitted.

3. Provide stainless steel machine screws and lead expansion shields for concrete and masonry substrates.
4. Provide wall grip inserts for hollow wall construction.
5. Fire-Resistance-Rated Applications: Comply with NFPA 80.
 - a. Provide wood or machine screws for hinges mortised to doors or frames, strike plates to frames, and closers to doors and frames.
 - b. Provide steel through bolts for attachment of surface mounted closers, hinges, or exit devices to door panels unless proper door blocking is provided.

2.02 PERFORMANCE REQUIREMENTS

- A. Provide door hardware products that comply with the following requirements:
 1. Applicable provisions of federal, state, and local codes.
 - a. NFPA 101.
 2. Accessibility: ADA Standards and ICC A117.1.
 3. Fire-Resistance-Rated Doors: NFPA 80, listed and labeled by qualified testing agency for fire protection ratings indicated, based on testing at positive pressure in accordance with NFPA 252 or UL 10C.
 4. Hardware on Fire-Resistance-Rated Doors: Listed and classified by UL (DIR), ITS (DIR), or testing firm acceptable to authorities having jurisdiction as suitable for application indicated.
 5. Hardware for Smoke and Draft Control Doors: Provide door hardware that complies with local codes, and requirements of assemblies tested in accordance with UL 1784.
 6. Hardware Preparation for Steel Doors and Steel Frames: BHMA A156.115.
 7. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.
 8. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified.

2.03 HINGES

- A. Manufacturers: Conventional butt hinges.
 1. BEST; dormakaba Group:
 2. McKinney.
 3. Ives Hardware.
- B. Properties:
 1. Butt Hinges: As applicable to each item specified.
 - a. Standard Weight Hinges: Minimum of two (2) permanently lubricated non-detachable bearings.
 - b. Heavy Weight Hinges: Minimum of four (4) permanently lubricated bearings on heavy weight hinges.
 - c. Template screw hole locations.
 - d. Bearings: Concealed fully hardened bearings.
 - e. UL 10C listed for fire-resistance-rated doors.
- C. Sizes: See Door Hardware Schedule.
 1. Hinge Widths: As required to clear surrounding trim.
 2. Sufficient size to allow 180 degree swing of door.
- D. Finishes: See Door Hardware Schedule.
 1. Fully polish hinges; front, back, and barrel.
- E. Grades:
 1. Butt Hinges: Comply with BHMA A156.1 and BHMA A156.7 for templated hinges.
 2. Comply with BHMA A156.18 Materials and Finishes.
- F. Material: Base metal as indicated for each item by BHMA material and finish designation.

G. Types:

1. Butt Hinges: Include full mortise hinges.

H. Options: As applicable to each item specified.

I. Quantities:

1. Butt Hinges: Three (3) hinges per leaves up to 90 inches (2286 mm) in height. Add one (1) for each additional 30 inches (762 mm) in height or fraction thereof.
 - a. Hinge weight and size unless otherwise indicated in hardware sets:
 - 1) For doors up to 36 inches (914 mm) wide and up to 1-3/4 inches (44.5 mm) thick provide hinges with a minimum thickness of 0.134 inch (3.4 mm) and a minimum of 4-1/2 inches (114 mm) in height.
 - 2) For doors from 36 inches (914 mm) wide up to 42 inches (1067 mm) wide and up to 1-3/4 inches (44.5 mm) thick provide hinges with a minimum thickness of 0.145 inch (3.7 mm) and a minimum of 4-1/2 inches (114 mm) in height.
 - 3) For doors from 42 inches (1067 mm) wide up to 48 inches (1219 mm) wide and up to 1-3/4 inches (44.5 mm) thick provide hinges with a minimum thickness of 0.180 inch (4.6 mm) and a minimum of 5 inches (127 mm) in height.
 - 4) For doors greater than 1-3/4 inches (44.5 mm) thick provide hinges with a minimum thickness of 0.180 inch (4.6 mm) and a minimum of 5 inches (127 mm) in height.

J. Applications: At swinging doors.

1. Provide non-removable pins at out-swinging doors with locking hardware and all exterior doors.

K. Products:

1. Butt Hinges:
 - a. Ball Bearing, Five (5) Knuckle.

2.04 CONTINUOUS HINGES

A. Manufacturers:

1. Best Access
2. Roton
3. Select Hardware

Geared Continuous Hinges: As applicable to each item specified.

- 1) Non-handed.
- 2) Anti-spinning through-fastener.
- 3) UL 10C listed for fire-resistance-rated doors.
 - (a) Metal Door Installation: Rated up to 90 minutes.
 - (b) Wood Door Installation: Rated up to 60 minutes.
- 4) Sufficient size to permit door to swing 180 degrees

B. Finishes: See Door Hardware Schedule.

2.05 BOLTS

A. Manufacturers:

1. ABH.
2. Burns.
3. Trimco.

B. Properties:

1. Dustproof Strikes: For bolting into floor, provide except at metal thresholds.

C. Options:

1. Extension Bolts: In leading edge of door, one bolt into floor, one bolt into top of frame.
2. Lever extensions: Provide for top bolt at oversized doors.

2.06 EXIT DEVICES

- A. Manufacturers:
 1. Precision Apex 2000 Series
 2. Or Approved Equal by Architect.
- B. Properties:
 1. Actuation: Crossbar.
 2. Touchpads: 'T' style metal touchpads and rail assemblies with matching chassis covers end caps.
 3. Latch Bolts: Stainless steel deadlocking with 3/4 inch (19 mm) projection using latch bolt.
 4. Lever Design: Match project standard lockset trims.
 5. Cylinder: Include where cylinder dogging or locking trim is indicated.
 6. Strike as recommended by manufacturer for application indicated.
 7. Dogging:
 - a. Non-Fire-Resistance-Rated Devices: Cylinder 1/4 inch (6 mm) hex key dogging.
 - b. Fire-Resistance-Rated Devices: Manual dogging not permitted.
 8. Touch bar assembly on wide style exit devices to have a 1/4 inch (6.3 mm) clearance to allow for vision frames.
 9. All exposed exit device components to be of architectural metals and "true" architectural finishes.
 10. Handing: Field-reversible.
 11. Fasteners on Back Side of Device Channel: Concealed - exposed fasteners not allowed.
 12. Vertical Latch Assemblies' Operation: Gravity, without use of springs.
- C. Grades: Complying with BHMA A156.3, Grade 1.
 1. Provide exit devices tested and certified by UL or by a recognized independent laboratory for mechanical operational testing to 10 million cycles minimum with inspection confirming Grade 1 Loaded Forces have been maintained.
- D. Standards Compliance:
 1. UL Listed for Panic and Fire for Class II Circuitry.
 2. Provide UL (DIR) listed exit device assemblies for fire-resistance-rated doors.
 3. Comply with UL 10C.
- E. Code Compliance: As required by authorities having jurisdiction in the State in which the Project is located.
 1. Listed by UL as a Controlled Exit Device (FULA) and Special Locking Arrangements (FWAX) category.
- F. Options:
 1. Electrified Devices:
 2. Delayed Egress Devices: Manufacturer's standard for the application.
 3. Internally mounted switch used to signal other components.
 4. Internally mounted switch that monitors the position of the latchbolt.
 5. MLR: Motorized latch retraction.
- G. Products:
 1. 2000.

2.07 LOCK CYLINDERS – LESS CORES

- A. Manufacturers: No Substitution – Existing System
 1. BEST

- B. Material:
 - 1. Manufacturer's standard corrosion-resistant brass alloy.
- C. Types: As applicable to each item specified.
 - 1. Patented small format interchangeable core (SFIC) type cylinders, with seven pin cores.

2.08 CYLINDRICAL LOCKS

- A. Manufacturers: No Substitution – Existing System
 - 1. BEST 9K Series
- B. Properties:
 - 1. Mechanical Locks:
 - a. Fitting modified ANSI A115.2 door preparation.
 - b. Door Thickness Fit: 1-3/8 inches (35 mm) to 2-1/4 inches (57 mm) thick doors.
 - c. Construction: Hub, side plate, shrouded rose, locking pin to be a one-piece casting with a shrouded locking lug.
 - 1) Through-bolted anti-rotational studs.
 - d. Cast stainless steel latch retractor with roller bearings for exceptionally smooth operation and superior strength and durability.
 - e. Bored Hole: 2-1/8 inch (54 mm) diameter.
 - f. Backset: 2-3/4 inches (70 mm) unless otherwise indicated.
 - g. Latch: Single piece tail-piece construction.
 - 1) Latchbolt Throw: 9/16 inch (14.3 mm), minimum.
 - h. Cylinders:
 - 1) Cylinder Core Types: Locks capable of supporting manufacturers' cores, as applicable.
 - i. Lever Trim:
 - 1) Style: See Door Hardware Schedule.
 - 2) Outside Lever Sleeve: Seamless one-piece construction.
 - 2. Electrified Locks: Same properties as standard locks, and as follows:
 - a. Function: Electrically locked (Fail Safe) or unlocked (Fail Secure), as indicated for each lock in Door Hardware Schedule.
- C. Finishes: See Door Hardware Schedule.
 - 1. Core Faces: Match finish of lockset.
- D. Grades: Comply with BHMA A156.2, Grade 1, Series 4000, Operational Grade 1, Extra Heavy Duty.
- E. Material: Manufacturer's standard for specified lock.
- F. Products: Cylindrical locks, including mechanical and electrified types.
 - 1. 9K (Grade 1).

2.09 DOOR PULLS AND PUSH PLATES

- A. Manufacturers:
 - 1. ABH.
 - 2. Burns.
 - 3. Trimco.
- B. Material: Stainless steel, unless otherwise indicated.

2.10 CLOSERS

- A. Manufacturers:
 - 1. Dorma 8900 Series

2. Or Approved Equal by Architect.

B. Grades:

1. Closers: Comply with BHMA A156.4, Grade 1.
 - a. Underwriters Laboratories Compliance:
 - 1) Product Listing: UL (DIR) and ULC for use on fire-resistance-rated doors.
 - (a) UL 228 - Door Closers-Holders, With or Without Integral Smoke Detectors.

C. Installation:

1. Mounting: Includes surface mounted installations.
2. Mount closers on non-public side of door and stair side of stair doors unless otherwise noted in hardware sets.
3. At outswinging exterior doors, mount closer on interior side of door.
4. Provide adapter plates, shim spacers, and blade stop spacers as required by frame and door conditions.
5. Where an overlapping astragal is included on pairs of swinging doors, provide coordinator to ensure door leaves close in proper order.

2.11 OVERHEAD STOPS AND HOLDERS

A. Manufacturers:

1. Architectural Builders Hardware Mfg (ABH)
2. Glynn Johnson
3. Rixson

B. Sizes: Manufacturer's standard for the application.

C. Finishes:

1. Arms and Brackets: Zinc-plated.

D. Grades: As applicable to item specified.

1. Comply with BHMA A156.8, Grade 1.

E. Types:

1. Surface-applied.
2. Concealed.

2.12 PROTECTION PLATES

A. Manufacturers:

1. ABH.
2. Burns.
3. Trimco.

B. Properties:

1. Plates:
 - a. Kick Plates: Provide along bottom edge of push side of every wood door with closer, except aluminum storefront and glass entry doors, unless otherwise indicated.
 - 1) Size: 10 inches (254 mm) high by 2 inch (51 mm) less door width (LDW) on push side of door.
 - b. Mop Plates: Provide along bottom edge of push side of doors to provide protection from cleaning liquids and equipment damage to door surface.
 - c. Edges: Beveled, on four (4) unless otherwise indicated. CSK Screws.

C. Grades: Comply with BHMA A156.6.

D. Material: As indicated for each item by BHMA material and finish designation.

1. Metal Properties: Stainless steel.
 - a. Metal, Standard Duty: Thickness 0.050 inch (1.27 mm), minimum.

E. Installation:

1. Fasteners: Countersunk screw fasteners

2.13 STOPS AND HOLDERS

A. Manufacturers:

1. ABH.
2. Burns.
3. Trimco.

B. General: Provide overhead stop/holder when wall or floor stop is not feasible.

C. Grades:

1. Door Holders, Wall Bumpers, and Floor Stops: Comply with BHMA A156.16 and Resilient Material Retention Test as described in this standard.

D. Types:

2.14 THRESHOLDS

A. Manufacturers:

1. National Guard Products
2. Pemko.
3. Reese.

B. Properties:

1. Threshold Surface: Fluted horizontal grooves across full width.

C. Grades: Thresholds: Comply with BHMA A156.21.

D. Material: Base metal as indicated for each item by BHMA material and finish designation.

E. Types: As applicable to project conditions. Provide barrier-free type at every location where specified.

1. Saddle Thresholds: Without thermal break.
2. Bumper Seal Thresholds with Gasket: Use silicone gaskets.

2.15 WEATHERSTRIPPING AND GASKETING

A. Manufacturers:

1. National Guard Products, Inc: www.ngpinc.com/#sle.
2. Pemko .
3. Reese.

B. Products:

1. Weatherstripping: See Door Hardware Schedule.
2. Smoke Seals: See Door Hardware Schedule.
3. Meeting Stile Seals: See Door Hardware Schedule.
4. Door Bottom Seals:
 - a. Door Sweeps: See Door Hardware Schedule.

2.16 ELECTRIFIED HARDWARE

A. Manufacturers: Door Position Switch

1. Dorma MC4
2. Securitron DPS
3. SDC MC-4

B. Properties:

1. Door Position Switches: Recessed devices with magnetic contacts.
 - a. SPDT configuration.

2.17 KEYS AND CORES

- A. Manufacturers:
 - 1. BEST, No Substitution, Existing System.
- B. Properties: Complying with guidelines of BHMA A156.28.
 - 1. Provide "WC" Keyway Uncombined small format interchangeable core.
 - 2. Provide "WC" Keyway interchangeable cores for all locks listed in the hardware spec.
 - 3. Keying: By Owner.
 - 4. Include construction keying and control keying with Brass removable core cylinders.
 - 5. Supply keys in following quantities:
 - a. 1 Box of uncut "WC" Keyway keys.

2.18 FINISHES

- A. Finishes: Identified in Hardware Sets.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that doors and frames are ready to receive this work; labeled, fire-rated doors and frames are properly installed, and dimensions are as indicated on shop drawings.
- B. Correct all defects prior to proceeding with installation.
- C. Verify that electric power is available to power operated devices and of correct characteristics.

3.02 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and applicable codes.
- B. Install hardware using the manufacturer's fasteners provided. Drill and tap all screw holes located in metallic materials. Do not use "Riv-Nuts" or similar products.
- C. Install hardware on fire-rated doors and frames in accordance with applicable codes and NFPA 80.
- D. Install hardware for smoke and draft control doors in accordance with NFPA 105.
- E. Use templates provided by hardware item manufacturer.
- F. Do not install surface mounted items until application of finishes to substrate are fully completed.
- G. Wash down masonry walls and complete painting or staining of doors and frames.
- H. Complete finish flooring prior to installation of thresholds.
- I. Set exterior door thresholds with full-width bead of elastomeric sealant at each point of contact with floor providing a continuous weather seal; anchor thresholds with stainless steel countersunk screws.

3.03 CLEANING

- A. Clean finished hardware in accordance with manufacturer's written instructions after final adjustments have been made.
- B. Clean adjacent surfaces soiled by hardware installation activities.

3.04 PROTECTION

- A. Do not permit adjacent work to damage hardware or finish.

END OF SECTION

Manufacturer list

ABH Architectural Builders Hardware
PRE BEST (Precision)
DKA dormakaba Architectural
NGP National Guard Products
RCI Rutherford Controls Inc

Finish list

Code:	Name:
652	652
689	689 Aluminum
A	Anodized Aluminum
US26D	Satin Chrome
626	626
630	Satin Stainless Steel
Grey	Grey
600	Primed
C	Charcoal

Specification Report

Set #1 - Exterior - Marvin Door - Auto Oper

Doors: 150

1.0	Removeable Mullion	KR822 x MCS	600	PRE
1.0	Exit Device	QEL-98	630	VD
1.0	Exit Device	QEL-98	630	VD
2.0	Rim Cylinder	12E72 L/C	626	BES
2.0	Mortise Cylinder	1E74 L/C	626	BES
4.0	Interchangeable Core	1C7 WC Keyway Uncombined	626	BES
1.0	Door Closer	89 16 SDS FC LSN DP89	689	
	DKA			
1.0	Auto Operator	PROVIDED BY SECTION 087113		
2.0	Actuator	946 HP 45 MO	32D	RCI
1.0	Floor Stop	1803	US32D	
	ABH			
1.0	Bollard Post	B-65Q-RT 32D-SM SG WIKK Mfg		

NOTE: Hardware listed is a basis of design. Balance of hardware (Hinges, Thresholds etc) and seals by Marvin Door manufacturer. Coordinate and verify hardware with Marvin Door manufacturer. Operation: Unlocked Hours: Doors remote electronically dogged down for Push / Pull operation. Operator and actuators enabled by switch on operator. Active leaf can be manually opened by door pull or automatically by exterior and vestibule side actuators to signal automatic operator to cycle to open the door. Locked Hours: Doors closed and locked by remote electronically un-dogging the device. Operator and actuators disabled by switch on operator. Mechanical key override. Request to Exit by Security Vendor. Mechanical key override. All wiring and conduit by electrical contractor. Coordinate and verify wiring and installation with GC / EC / Security Vendor and Door Manufacturer.

Set #2 - Lobby - Exit Only - Auto Oper

Doors: 151

3.0	Hinge	FBB168 4.5x4.5 NRP	652	BES
1.0	Exit Device	2101 CD	630	PRE
1.0	Mortise Cylinder	1E74 L/C	626	BES
1.0	Interchangeable Core	1C7 WC Keyway Uncombined	626	BES
1.0	Auto Operator	PROVIDED BY SECTION 087113		
1.0	Actuator	946 HP 45 MO	32D	RCI
1.0	Protection Plate	PP0050 10" x 2" LDW B4E	US32D	
	ABH			
1.0	Floor Stop	AB441CU 26D ABH		
3.0	Silencers	AB609	Grey	
	ABH			
1.0	Gasketing	C607	A	
	NGP			
1.0	Threshold	425 LAR (1/4-20 SS MS/EA)	A	
	NGP			

NOTE: Verify and coordinate hardware with stile and rail door manufacturer. Operation: Door mechanically dogged down. Operator and actuator enabled by switch on operator. Exit by exit device

or by pushing lobby side actuator to signal automatic operator to cycle and open the door. Request to Exit by Security Vendor. All wiring and conduit by electrical contractor. Coordinate and verify wiring and installation with GC / EC / Security Vendor.

Set #3 - Toilet, Lactation Rm

Doors: 126, 127, 128

3.0 Hinge	FBF179 4.5X4.5	652	BES
1.0 Privacy Set	9K 3 0 L 15 D S3	626	BES
1.0 Door Closer	89 16 AF89 FC LSN	689	
DKA			
1.0 Protection Plate	PP0050 10" x 2" LDW B4E	US32D	
ABH			
1.0 Protection Plate	PP0050 6" x 1" LDW B4E	US32D	
ABH			
1.0 Gasketing	2525 Head & Jambs (2)	C	
NGP			

NOTE: Verify and coordinate Kickplate height with stile and rail doors.

Set #4 - Office

Doors: 122

3.0 Hinge	FBF179 4.5X4.5	652	BES
1.0 Office Lockset	9K 3 7 AB 15 D S3 L/C	626	BES
1.0 Interchangeable Core	1C7 WC Keyway Uncombined	626	BES
1.0 Wall Stop	AB403	US26D	
ABH			
3.0 Silencers	AB609	Grey	
ABH			

Set #5 - Security Office

Doors: 152

3.0 Hinge	FBF179 4.5X4.5 NRP	652	BES
1.0 Office Lockset	9K 3 7 AB 15 D S3 L/C	626	BES
1.0 Interchangeable Core	1C7 WC Keyway Uncombined	626	BES
1.0 Overhead Stop	9020 Series	US32D	
ABH			
3.0 Silencers	AB609	Grey	
ABH			

Set #6 - Police / Conference

Doors: 102

3.0 Hinge	FBB179 4.5X4.5	652	BES
1.0 Latch Set	9K 3 0N 15 D S3	626	BES
1.0 Wall Stop ABH	AB400	626	
3.0 Silencers ABH	AB609	Grey	

Set #7 - Zoom Cart Room

Doors: 106

3.0 Hinge	FBB179 4.5X4.5	652	BES
1.0 Cylindrical Lock	9K 3 0N 15 D S3	626	BES
1.0 Wall Stop ABH	AB400	626	
3.0 Silencers ABH	AB609	Grey	

NOTE: Verify new hardware with existing frame. Patch, Prep and modify existing frame as required by GC. Fill or patch all remaining holes or preps.

END OF SCHEDULE