

<u>Addendum</u>

Dobbs Ferry Union Free School District Dobbs Ferry, New York

Reconstruction to Springhurst Elementary School Dobbs Ferry Middle School / High School

Tt Project No. 234903-23001

BID Addendum No. 2 to Drawings and Project Manual

January 24, 2025

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To: ALL BIDDERS

This ADDENDUM forms a part of the BIDDING AND CONTRACT DOCUMENTS and modifies the following documents: Original DRAWINGS dated December 1, 2023.

PROJECT MANUAL dated December 1, 2023 and BID ADDENDUM NO. 1, dated January 22, 2025. Acknowledge receipt of the ADDENDUM in the space provided on the FORM OF PROPOSAL

This ADDENDUM consists of (2) pages and the following:

ATTACHMENTS

PRE-BID REQUEST FOR INFORMATION QUESTIONS/ANSWERS

REISSUED PROJECT MANUAL SECTIONS

SECTION 08 71 00 – DOOR HARDWARE

PROJECT MANUAL MODIFICATIONS - ARCHITECTURAL

ITEM 2-C-1: Refer to SECTION 08 71 00 – DOOR HARDWARE

1. <u>DELETE</u> section in its entirety and, <u>ADD</u> new section attached to this addendum.

Cornell Business + Technology Park 10 Brown Road Ithaca, New York 14850 Tel. (607) 277-7100 Fax (607) 277-1410

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SED NO. 66-04-03-03-0-004-019 66-04-03-03-0-001-020

DRAWING MODIFICATIONS - ARCHITECTURAL

ITEM 2-C-2: Refer to DRAWING BA600

1. Door Schedule, <u>AMEND</u> the hardware sets for Doors 120-1 and 120-3 to read as follows:

"15"

DRAWING MODIFICATIONS - LANDSCAPE

- ITEM 2-C-3: Refer to DRAWING AC500
- 1. Detail 2, Stair Handrail Steel, Note 1, <u>AMEND</u> to read as follows:
 - "1. REFER TO EXTERIOR RAILING SPECIFICATIONS SECTION. ALL PIPING USED IN RAIL CONSTRUCTION TO BE STAINLESS STEEL."
- 2. Detail 2, Stair Handrail Steel, <u>DELETE</u> Note 3 in its entirety.

DRAWING MODIFICATIONS - ELECTRIC

- ITEM 2-C-4: Refer to DRAWING BE207
- 1. Key Notes, <u>ADD</u> the following note:
 - "2. CONNECT AUDITORIUM SIDE DOOR CONTACTS AT THE MAIN ENTRY TO AUDITORIUM WITH (2)#12, (1)#12G in ½"C TO SPARE BREAKER IN PANEL LP-GO LOCATED IN ROOM 105B . IN ADDITION, CONNECT DOOR CONTACTS TO THE FIRE ALARM CONTROL PANEL. REFER TO DRAWING BE207 FOR MORE INFORMATION."

END OF ADDENDUM



INSTRUCTIONS TO BIDDERS <u>ATTACHMENT #1:</u> PRE-BID REQUEST FOR INTERPRETATION FORM

SUBMIT FORM BY EMAIL TO INE.DobbsFerry@tetratech.com

Project No.: 234903-23001

Date: 1/22/2025

Project Name: Reconstruction to Springhurst Elementary School and Dobbs Ferry Middle/High School

Bidder Contact Person: Bidder Company Name:	James Hanchrow Abbott & Price, Inc.			
Bidder Phone:	914-944-4916 x106			
Bidder Email Address:	jhanchrow@abbottprice.com			
<u>Ouestion Pertains to:</u>				
Drawing Number: Plan Area:				
Room Number:				
Drawing Detail Number:				
Specification Section: Bi	d Form			
Specification Section: Bid Form Question: (Please be specific) The Bid Form includes a note which states "Submit in Duplicate". Can you please provide some clarity about "Submit in Duplicate" instructions?				

Review by Architect/Engineers:

Responded By: KMR Date: 01/22/2025

This means (2) copies.

Submit requests not less than 5 working days prior to the specified Bid Opening date and time. In the event that this question requires clarification or modification of the Bidding Documents, such written information can only be provided by formal Addendum, distributed to all plan holders.



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Project No.: 234903-23001

Date: 1/23/2025

Project Name: Reconstruction to Springhurst Elementary School and Dobbs Ferry Middle/High School

Bidder Contact Person: James Hanchrow **Bidder Company Name:** Abbott & Price, Inc. **Bidder Phone:** 914-944-4916 x106 jhanchrow@abbottprice.com Bidder Email Address: **Question Pertains to:** Drawing Number: AC120 & AC500 **Plan Area: Room Number: Drawing Detail Number: Specification Section:** 055213

Question: (Please be specific)

Please clarify if new Stair Railings at Springhurst Elementary are to be Stainless Steel or Hot Dip Galvanized Steel with Paint Finish. Detail 2 on Drawing AC500 shows Hot Dipped Galvanized Steel Pipe and Spec Section 055213 (Stainless Steel) reads Stainless Steel.

Review by Architect/Engineers:

Responded By:^{T Farlow, PE} Date: 01/24/25

Please see information provided in addendum No. 2

Submit we away to get less than 5 working days prior to the gradient of Did Opening date and time. In the av

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Bidder Contact Person: Bidder Company Name: Bidder Phone: Bidder Email Address:	James Hanchrow Abbott & Price, Inc. 914-944-4916 x106 jhanchrow@abbottprice.com
Question Pertains to: Drawing Number: BC10 Plan Area: Room Number:	0
Drawing Detail Number: Specification Section: Question: (Please be specifi	 ïc)

Note 7 reads in part, "remove existing stone retaining wall". Could you clarify the scope of work in this area and tell us the purpose of rebuilding this section of wall. Additionally, please address footing drain connections.

Review by Architect/Engineers:

Responded By:^{T Farlow, PE} Date: 01/24/25

Existing stack and mortored stone wall is in poor condition. The adjacent wall on either side of the section identified has been reconstructed in the last five (5) years. The area identified is the last area to be reconstructed.

Drainage to be through wall, similar to the adjacent wall sections.

Submit requests not less than 5 working days prior to the specified Bid Opening date and time. In the event that this question requires clarification or modification of the Bidding Documents, such written information can only be provided by formal Addendum, distributed to all plan holders.

NOTE: Items highlighted in yellow indicate changes in Bid Addendum #2.

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

- 1.1 RELATED DOCUMENTS
 - A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
 - 1. Swinging doors.
- B. Door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical door hardware.
- C. Related Sections:
 - 1. Division 06 Section "Rough Carpentry".
 - 2. Division 08 Section "Hollow Metal Doors and Frames".
 - 3. Division 08 Section "Flush Wood Doors".
 - 4. Division 08 Section "Aluminum-Framed Entrances and Storefronts".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC International Building Code.
 - 3. NFPA 70 National Electrical Code.
 - 4. NFPA 80 Fire Doors and Windows.
 - 5. NFPA 101 Life Safety Code.
 - 6. NFPA 105 Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:
 - 1. ANSI/BHMA Certified Product Standards A156 Series.
 - 2. UL10C Positive Pressure Fire Tests of Door Assemblies.
 - 3. ANSI/UL 294 Access Control System Units.

- 4. UL 305 Panic Hardware.
- 5. ANSI/UL 437- Key Locks.

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. 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. 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.
- C. 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.
- D. 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.
- E. 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.
- F. 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. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

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- 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.
- F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- G. 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.
- H. 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), and Contractor(s) to review proper methods and the 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
- I. At completion of installation, provide written documentation that components were applied according 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 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. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.
- B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

- 1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.
- C. Please note that ASSA ABLOY is transitioning the Yale Commercial brand to ASSA ABLOY ACCENTRA. This affects only the brand name; the products and product numbers will remain unchanged. The brand transition is expected to be complete in or about May of 2024, and products shipping after that time will be branded ASSA ABLOY ACCENTRA.
- D. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
 - 1. Quantity: Provide the following hinge quantity:
 - a. Two Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
 - c. Four Hinges: For doors with heights 91 to 120 inches.
 - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
 - 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
 - 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
 - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
 - 4. Hinge Options: Comply with the following:
 - a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.
 - 5. Manufacturers:
 - a. Hager Companies (HA) BB Series, 5-knuckle.

b. McKinney (MK) - TA/T4A Series, 5-knuckle.

2.3 CONTINUOUS HINGES

- A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
 - 1. Manufacturers:.
 - a. Hager Companies (HA).
 - b. Pemko (PE).

2.4 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
- B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
 - 1. Threaded mortise cylinders with rings and cams to suit hardware application.
 - 2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
 - 3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
 - 4. Tubular deadlocks and other auxiliary locks.
 - 5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
 - 6. Keyway: Match Facility Standard.
- C. Small Format Interchangeable Cores: Provide small format interchangeable cores (SFIC) as specified, core insert, removable by use of a special key; usable with other manufacturers' cylinders.
- D. Keying System: Each type of lock and cylinders to be factory keyed.
 - 1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
 - 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
 - 3. Existing System: Field verify and key cylinders to match Owner's existing system.
- E. Key Quantity: Provide the following minimum number of keys:
 - 1. Change Keys per Cylinder: Three (3).
 - 2. Master Keys (per Master Key Level/Group): Five (5).
 - 3. Construction Keys (where required): Ten (10).
 - 4. Construction Control Keys (where required): Two (2).

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- 5. Permanent Control Keys (where required): Two (2).
- F. Construction Keying: Provide temporary keyed construction cores.
- G. Key Registration List (Bitting List):
 - 1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
 - 2. Provide transcript list in writing or electronic file as directed by the Owner.

2.5 CYLINDRICAL LOCKS AND LATCHING DEVICES

- A. Cylindrical Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed cylindrical locksets. Listed manufacturers shall meet all functions and features as specified herein.
 - 1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) CLX3300 Series.
 - b. Sargent Manufacturing (SA) 10X Line.
 - c. Schlage (SC) ND Series.

2.6 LOCK AND LATCH STRIKES

- A. 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.
 - 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
- B. Standards: Comply with the following:
 - 1. Strikes for Mortise Locks and Latches: BHMA A156.13.
 - 2. Strikes for Bored Locks and Latches: BHMA A156.2.
 - 3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
 - 4. Dustproof Strikes: BHMA A156.16.

2.7 ELECTRIC STRIKES

- A. Surface Mounted Rim Electric Strikes: Surface mounted rim exit device electric strikes conforming to ANSI/BHMA A156.31, Grade 1, and UL Listed for both Burglary Resistance and for use on fire rated door assemblies. Construction includes internally mounted solenoid with two heavy-duty, stainless steel locking mechanisms operating independently to provide tamper resistance. Strikes tested for a minimum of 500,000 operating cycles. Provide strikes with 12 or 24 VDC capability supplied standard as fail-secure unless otherwise specified. Option available for latchbolt and latchbolt strike monitoring indicating both the position of the latchbolt and locked condition of the strike. Strike requires no cutting to the jamb prior to installation.
 - 1. Manufacturers:
 - a. Adams Rite (AD) 7800 Series.
 - b. HES (HS) 9400/9500/9600/9700/9800 Series.
- B. Provide electric strikes with in-line power controller and surge suppressor by the same manufacturer as the strike with the combined products having a five year warranty.

2.8 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
 - 1. Exit devices shall have a five-year warranty.
 - 2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
 - 3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
 - 4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
 - 5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
 - 6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
 - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
 - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

- 7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
- 8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
- 9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
- 10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
- 11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.
 - 1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) ED4000 / ED5000 Series.
 - b. Sargent Manufacturing (SA) 80 Series.
 - c. Von Duprin (VD) 35A/98 XP Series.
- C. Conventional Drop Bar Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device crossbars to be seamless assemblies of brass, bronze, or stainless steel construction. Device to be ADA compliant requiring less than 5 lbs. of force to activate. Crossbars lever arms to be drop forged and counter balanced by springs in both the center and hinge style cases.
 - 1. Manufacturers:
 - a. Von Duprin (VD) 88 Series.
- D. Steel Removable Mullions: ANSI/BHMA A156.3 steel removable mullions with options for fire rating, locking, through-wire electrification and hurricane compliance as specified.
 - 1. Manufacturers:
 - a. Same as exit device manufacturer.

2.9 DOOR CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:
 - 1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
 - 2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

- 3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
- 4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
- 5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
- 6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
- B. Door Closers, Surface Mounted (Large Body Cast Iron): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.
 - 1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) DC8000 Series.
 - b. Norton Rixson (NO) 9500 Series.
 - c. Sargent Manufacturing (SA) 281 Series.
- C. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.
 - 1. Heavy duty surface mounted door closers shall have a 30-year warranty.
 - 2. Manufacturers:
 - a. ASSA ABLOY ACCENTRA, formerly known as Yale (YA) 4400 Series.
 - b. Corbin Russwin Hardware (RU) DC6000 Series.
 - c. Norton Rixson (NO) 7500 Series.
 - d. Sargent Manufacturing (SA) 351 Series.

2.10 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
 - 1. Manufacturers:
 - a. Hager Companies (HA).
 - b. Rockwood (RO).
 - c. Trimco (TC).
- C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.
 - 1. Manufacturers:
 - a. Norton Rixson (RF).
 - b. Rockwood (RO).
 - c. Sargent Manufacturing (SA).

2.11 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that 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 perimeter gasketing at all smoke labeled openings.
- C. 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-10C.
 - 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
 - 1. National Guard Products (NG).
 - 2. Pemko (PE).
 - 3. Reese Enterprises, Inc. (RE).

2.12 ELECTRONIC ACCESSORIES

- A. Intelligent Switching Power Supplies: Provide power supplies with single, dual or multi-voltage configurations at 12 and/or 24VDC. Power Supply shall have battery backup function with an integrated battery charging circuit. The power supply shall have a standard, integrated Fire Alarm Interface (FAI). The power supply shall provide capability for secondary voltage, power distribution, direct lock control and network monitoring through add on modules. The power supply shall be expandable up to 16 individually protected outputs. Output modules shall provide individually protected, continuous outputs and/or individually protected, relay controlled outputs. Network modules shall provide remote monitoring functions such as status reporting, fault reporting and information logging.
 - 1. Provide the least number of units, at the appropriate amperage level, sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.
 - 2. Manufacturers:
 - a. Securitron (SU) AQL Series.

2.13 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.14 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
 - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. 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."
 - 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
 - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
 - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and 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.
- D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 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.

3.6 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

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- 1. Quantities listed are for each pair of doors, or for each single door.
- 2. The supplier is responsible for handing and sizing all products.
- 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
- 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Manufacturer's Abbreviations:
 - 1. MK McKinney
 - 2. PE Pemko
 - 3. SA SARGENT
 - 4. VD Von Duprin
 - 5. BE BEST Locks & Closers
 - 6. HS HES
 - 7. RF Rixson
 - 8. RO Rockwood
 - 9. OT Other
 - 10. SU Securitron

Hardware Sets

Set: 1.0

Doors: S11-1

2 Continuous Hinge	FM_SLF-HD1	С	PE
1 Mullion	L980	PC	SA
1 Rim Exit Device, Exit Only	16 72 8810 EO	US32D	SA
1 Rim Exit Device, Storeroom	16 72 8804 Less Pull	US32D	SA
2 Pull	863	US32D	SA
4 Permanent Core	Compatilbe with Facility's Existing System	626	BE
1 Cylinder	72 980C1	US26D	SA
2 Surface Closer	281 CPS	EN	SA
1 Mullion Gasketing	5110BL		PE
2 Sweep	18061CNB		PE
1 Threshold	to architect detail		PE

Set: 2.0

Doors: 321-1

1	Continuous Hinge	FMSLF-HD1	С	PE
1	Storeroom/Closet Lock	72 10XG04 LL	US26D	SA
1	Permanent Core	Compatilbe with Facility's Existing System	626	BE
1	Conc Overhead Stop	1-X36	630	RF
1	Surface Closer	281 P3	EN	SA
1	Sweep	18061CNB		PE
1	Threshold	to architect detail		PE

<u>Set: 3.0</u>

Doors: M112-1, M117-2

1	Continuous Hinge	FM_SLF-HD1	С	PE
1	Rim Exit Device, Storeroom	16 72 8804 Less Pull	US32D	SA
1	Pull	863	US32D	SA
2	Permanent Core	Compatilbe with Facility's Existing System	626	BE
1	Surface Closer	281 CPS	EN	SA
1	Sweep	18061CNB		PE
1	Threshold	to architect detail		PE

<u>Set: 4.0</u>

Doors: V-104-1, V-105-1, V-105-2

2 Continuous Hinge	FM_SLF-HD1	С	PE
1 Electrified Mullion	EL980	PC	SA 🞸
1 Rim Exit Device, Exit Only	16 72 8810 EO	US32D	SA
1 Rim Exit Device, Storeroom	16 72 8804 Less Pull	US32D	SA
1 Pull	863	US32D	SA
1 Permanent Core	Compatilbe with Facility's Existing System	626	BE
1 Cylinder	72 980C2	US26D	SA
2 Electric Strike	9500	630	HS 🗲
2 Surface Closer	281 CPS	EN	SA
1 Wiring Diagram	WD-SYSPK		SA
1 Card Reader	by Security System Supplier		OT

1 Power Supply	AQL Series (Amps & Relays as Required)	SU 🞸

Notes: Door closed & locked at all times. Presenting valid credential outside allows for authorized entrance. Free egress at all times. With loss of power door remains locked.

<u>Set: 5.0</u>

Doors: 001-1

1	Continuous Hinge	FM_HD1	С	PE
1	Rim Exit Device, Storeroom	16 72 8804 ETL	US32D	SA
2	Permanent Core	Compatilbe with Facility's Existing System	626	BE
1	Surface Closer	351 PS	EN	SA
3	Silencer	608		RO

<u>Set: 6.0</u>

Doors: 001-2

1 Continuous Hinge	FMSLF-HD1	С	PE
1 Passage Latch	10XU15 LL	US26D	SA
1 Surface Closer	351 UO	EN	SA
1 Door Stop	400 / 441CU	US26D	RO

<u>Set: 7.0</u>

Doors: 120C-1, M117B-1

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Classroom Lock	72 10XG37 LL	US26D	SA
1	Permanent Core	Compatilbe with Facility's Existing System	626	BE
1	Door Stop	400 / 441CU	US26D	RO
3	Silencer	608		RO

<u>Set: 8.0</u>

Doors: L-104-1

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Classroom Lock	72 10XG37 LL	US26D	SA
1	Permanent Core	Compatilbe with Facility's Existing	626	BE

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	System		
1 Surface Closer	351 UO	EN	SA
1 Door Stop	400 / 441CU	US26D	RO
1 Gasketing	S773BL		PE

<u>Set: 9.0</u>

Doors: L-105A-1

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Classroom Lock	72 10XG37 LL	US26D	SA
1 Permanent Core	Compatilbe with Facility's Existing System	626	BE
1 Surface Closer	351 PS	EN	SA
1 Gasketing	S773BL		PE

<u>Set: 10.0</u>

Doors: M117-1

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Classroom Security Lock	72 10XG38 LL	US26D	SA
2 Permanent Core	Compatilbe with Facility's Existing System	626	BE
1 Surface Closer	351 UO	EN	SA
1 Door Stop	400 / 441CU	US26D	RO
1 Gasketing	S773BL		PE

Set: 11.0

Doors: M117A-1

3 Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1 Privacy Lock	10XU65 LL	US26D	SA
1 Door Stop	400 / 441CU	US26D	RO
3 Silencer	608		RO

Set: 12.0

Doors:	120-6

6 Hinge, Full Mortise, Hvy Wt
2 SVR Exit Only

T4A3386 BT 8827.EO US10BE(SS) MK .643E VO

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2 Surface Vert Rod Exit	8827.TL .377Tx less pull	<mark>.643E</mark>	<mark>VO</mark>
2 Surface Closer	281 CPS	EB	<mark>SA</mark>
2 Latch Guard Cover	BFRC24	10BE	<mark>RO</mark>
2 Latch Guard Cover	BFLG12	10BE	<mark>RO</mark>

Notes: Existing door closers, protection plates & weather seals to remain.

<u>Set: 13.0</u>

Doors: 120-4, 120-5, 201-1, 201-2

6	Hinge, Full Mortise, Hvy Wt	T4A3786 BT	US10BE	<mark>MK</mark>
2	Surface Vert Rod Exit	8827.LBE .LBR .373L-BE	<mark>.643E</mark>	<mark>VO</mark>
2	Surface Closer	351 CPS	<mark>EB</mark>	<mark>SA</mark>

Notes: Existing protection plates to remain.

Existing doors & frames to be modified to accept new hardware.

Set: 14.0

Doors: 120-2

6 Hinge, Full Mortise, Hvy Wt	T4A3786 BT	US10BE	<mark>MK</mark>
2 Surface Vert Rod Exit	8827.L .LBR .373L	<mark>.642E</mark>	<mark>VO</mark>
2 Permanent Core	Compatilbe with Facility's Existing System	<mark>613</mark>	<mark>BE</mark>
2 Cylinder	As Required x Temp Core	US10B	<mark>SA</mark>
2 Surface Closer	351 CPS	<mark>EB</mark>	<mark>SA</mark>

Notes: Existing protection plates to remain.

Existing doors & frames to be modified to accept new hardware.

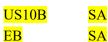
<u>Set: 15.0</u>

Doors: 120-1, 120-3

6 Hinge, Full Mortise, Hvy Wt	T4A3786 BT	US10BE	<mark>MK</mark>
2 Surface Vert Rod Exit	8827.L .LBR .373L	<mark>.643E</mark>	<mark>VO</mark>
2 Permanent Core	Compatilbe with Facility's Existing	<mark>613</mark>	BE

2 Cylinder

System As Required x Temp Core 351 EHT-Push



2 Electromechanical Surface Closer

Notes: Existing protection plates to remain.

Notes: Existing doors & frames to be modified to accept new hardware.

END OF SECTION 087100