

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 COORDINATION

- A. Supplier shall coordinate the following items with the General Contractor and related trades.
1. Coordinate work of this Section with other directly affected Sections involving manufacture of any internal reinforcement for door hardware. Furnish hardware templates to door fabricators for factory preparation to receive hardware.
 2. Furnish hardware items of proper design for use on doors and frames of thicknesses, profile, swing, security, and other indicated requirements as necessary for proper function.
 3. Coordinate solid blocking between studs of frame construction to support wall mounted items such as stops.
 4. Electrical System Roughing-in: Coordinate layout and installation of electrified door hardware with connections to power supplies, fire alarm system and detection devices and access control system.
- B. The electrified hardware meeting and the keying conference is mandatory within 30 days of contract award.
- C. Use hardware consultant to check Shop Drawings for doors and entrances to confirm that adequate provisions will be made for proper hardware installation.
- D. Existing Openings: The Hardware Schedule is intended to indicate the required function and grade of hardware for each opening. Hardware Supplier to visit the existing building BEFORE BID DATE to inspect and confirm existing conditions and make adjustments to specified hardware to fit existing openings. Should any existing conditions conflict with hardware specified, they shall be brought to the Architect's attention in writing, prior to Bid Date. All existing building inspection information and subsequent changes shall be included in the Hardware Schedule submittal. Bidding the project will acknowledge that the required existing building inspection has been performed and that all items affecting cost have been brought to the Architect's attention. NO EXTRAS ALLOWED FOR "EXISTING CONDITIONS."

1.9 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: Two (2) years from date of Substantial Completion, unless otherwise indicated.
1. Warranty Period for Manual Closers: Thirty (30) years from date of Substantial Completion.
 2. Warranty Period for Locksets: Ten (10) years from date of Substantial Completion.

3. Warranty Period for Exit Devices: Three (3) years from date of Substantial Completion.

D. Warranty Registration Certificate: The successful bidder shall furnish to the Contractor through the local manufacturer's representatives, a "Warranty Registration Certificate" from the manufacturers of the locks, exit devices and door closers, indicating the effective dates of the warranties. The "Warranty Registration Certificates" shall be delivered to the owner by the Contractor.

1.10 MAINTENANCE SERVICE

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.

1.11 COMMISSIONING:

A. The General Contractor in conjunction with the lock manufacturer's representative, hardware installer and supplying distributor shall commission hardware. Comply with Division 01 and as follows.

1. Test door hardware operation with climate control system both at rest and while in full operation.
2. Test electrical and electronic hardware systems for satisfactory operation.
3. Test hardware interfaced with fire/life-safety system for proper operation and release.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Provide the products of manufacturer designated or if more than one manufacturer is listed, the comparable product of one of the other manufacturers listed. Where only one manufacturer or product is listed, it is understood that this is the owner's Building Standard and "no substitution" is allowed.

2.2 GENERAL HARDWARE REQUIREMENTS:

A. Provide hardware materials and products of the best quality, free from imperfections and flaws in appearance, finish, or operational function.

B. Refer to Hardware Schedule below for specific hardware items, designs, functions, and finishes.

2.3 HINGES

A. Manufacturers:

1. Ives
2. McKinney
3. Hager

B. General: Provide only template-produced units.

- C. Hinges shall be five-knuckle design, ball bearing or three-knuckle design, concealed bearing as specified.
- D. Hinge Base Metal: Provide the following:
 - 1. Exterior Hinges: Stainless steel or brass/bronze, with stainless-steel non-removable pin.
 - 2. Interior Hinges: Steel, with steel pin
 - 3. Hinges for Fire-Rated Assemblies: Steel, with steel pin.
- E. Quantity, regardless of quantities specified in the hardware schedule provide the following:
 - 1. 2 - hinges per leaf for openings through 60 inches (1524 mm) high.
 - 2. 1 - additional hinge per leaf for each additional 30 inches (762 mm) in height or fraction thereof.
- F. Size, regardless of size shown provide the following:
 - 1. Doors up to 3'0": 2 ball bearing, standard weight, 0.134 gage, 4-1/2 inch by 4-1/2 inch (114 mm by 114 mm).
 - 2. Doors over 3'0": four ball bearing, heavy weight, 0.190 gage, 5 inches x 4-1/2 inches (127 mm by 114 mm).
- G. Options: NRP (non-removable pin) feature, furnish at all reverse bevel doors with locksets.
- H. Where necessary to maintain proper swing and door clearance at jamb trim, frame conditions, door reveals, door thickness and similar conditions, provide wide throw hinges.
- I. Provide shims and shimming instructions for proper door adjustment.
- J. Electric Power Transfer:
 - 1. Manufacturers:
 - a. Von Duprin
 - 2. Transfer power from door frame to edge of door.
 - 3. Provide sufficient number of concealed wires to accommodate electric function of specified hardware.

2.4 LOCKSETS AND LATCHSETS

- A. Manufacturers:
 - 1. Schlage
- B. Latches and Locks for Means of Egress Doors: Comply with NFPA 101. Doors shall not exceed 15 lbf (67 N) to release the latch. Locks shall not require the use of a key, tool, or special knowledge for operation from the egress side.
- C. Function numbers as listed in sets.
- D. Heavy duty cylindrical type:
 - 1. Provide cylindrical locksets that comply with ANSI A156.2, Series 4000, Grade 1; tested to exceed 3,000,000 cycles.
 - 2. Provide cylindrical locksets that meet ANSI A117.1, Accessibility Code.
 - 3. Provide cylindrical locksets that meet UL A label; to have a minimum listing for single doors 4' x 8'
 - 4. Provide cylindrical locksets that the lever returns to within 1/2" of the door.
 - 5. Chassis to be one-piece, modular assembly.
 - 6. Chassis to be multi-functional; interchange of function assembly without disassembly of lockset.
 - 7. Spindle to be deep-draw manufactured.
 - 8. Spring Cage to have double compression springs.

9. Spindle and Spring Cage (internal) to be one-piece integrated assembly.
10. Levers to be bi-directional, independent assemblies.
11. Lever to be free-wheeling when locked at all applications.
12. Levers are to be solid.
13. Levers are to be plated to match BHMA finishes.
14. Anti-rotation plate to be interlocking to lock chassis.
15. Thru-bolts to be a minimum of 1/4" in diameter.
16. Thru-bolts to secure anti-rotation plate without sheer line.
17. Adjustment plate to be threaded for door thickness adjustment.
18. Adjustment plate to adjust for doors from 1 5/8" thickness to 2 1/8" thickness.
19. Adjustment plate to have visual chassis marking for doors 1 3/4" thick.
20. Latchbolt to be steel with minimum 1/2" throw deadlatch on keyed and exterior functions; 3/4" throw anti-friction latchbolt on pairs of doors.
21. Lockset Trim: Schlage Rhodes

E. Strikes:

1. Provide strikes with extended lips where scheduled to protect trim from being marred by latch bolt. Provide strike lips that do not project more than 1/8" beyond doorframe trim at single doors and have 7/8" lip to center at pairs of 1-3/4" doors. Provide wrought box strikes on all locks.
2. Provide T strikes where scheduled.

F. General Contractor to 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.

2.5 CYLINDERS AND KEYING

A. Manufacturers:

1. Schlage

B. Keying schedule: This supplier shall meet with the Owner to finalize keying requirements and obtain keying instructions in writing. All cylinders shall be keyed by the factory or acceptable supplier, combined in sets or subsets, masterkeyed or great grandmaster keyed, as directed by Owner.

C. Cylinders:

1. Manufacturer's Interchangeable core type, constructed from brass or bronze, stainless steel, or nickel silver.
2. Number of Pins: Six
3. Mortise Type: Threaded cylinders with required length, cam and trim ring(s).
4. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
5. Bored-Lock Type: Cylinders with tailpieces to suit locks.

D. Permanent Cores: Manufacturer's standard; finish face to match lockset; interchangeable cores.

E. Construction Cores: Provide brass construction cores at all cylinders that are replaceable by permanent cores.

1. The Owner or Owner's Security Agent in conjunction with the General Contractor shall remove construction cores and install final cores.

- F. Keying System: Both the cylinders and keyblanks shall be protected from unauthorized manufacture and distribution by the manufacturer's United States patents.
 - 1. Keyway: Schlage Everest D145.
 - 2. Keyway to be confirmed with Poudre School District prior to ordering materials.
- G. Keys: Provide Schlage Everest nickel-silver keys permanently inscribed with a visual key control number and "DO NOT DUPLICATE" notation otherwise unembossed. Furnish keys in the following quantities:
 - 1. Temporary construction keys: Twenty Five.
 - 2. Construction control keys: Two.
 - 3. Key Blanks: Two Hundred Schlage Everest of specified keyway.
- H. Deliver all permanent keys, security cores, and other security keys direct to the School District Lockshop from supplier a minimum of sixty (60) days prior to completion by secure courier return receipt requested.

2.6 EXIT DEVICES AND MULLIONS

- A. Exit devices for Means of Egress Doors: Comply with NFPA 101. Doors shall not exceed 15 lbf (67 N) to release the latch. Locks shall not require the use of a key, tool, or special knowledge for operation from the egress side.
- B. Manufacturers:
 - 1. Von Duprin
- C. Rim and Vertical Rod devices:
 - 1. Exit devices shall be touchpad style plated to the standard architectural finishes to match the balance of the door hardware.
 - 2. Mechanism case or housing shall have an average minimum thickness of .140".
 - 3. No exposed screws shall be seen from the back side of the device.
 - 4. All exit devices shall incorporate a fluid damper, which decelerates the touchpad on its return stroke and eliminates noise associated with exit device operation.
 - 5. Touchpad shall extend a minimum of one half of the door width. Devices shall be push through type touch pad design with a straight or horizontal motion to eliminate pinch points. The angular motion type pad with end cavity exposed when depressed is unacceptable. Touch pad have a minimum height of 2-3/16"
 - 6. All latchbolts to be deadlatching type, with a self-lubricating coating to reduce wear.
 - 7. End-cap shall be sloped to deflect any impact from carts and shall be flush with the external mechanism case. End cap shall be cast metal of forged aluminum and have a minimum thickness of .125". End cap shall utilize a two-point attachment to the mounting bracket.
 - 8. Springs: Only compression springs are acceptable.
 - 9. All internal parts shall be zinc dichromate to prevent rusting.
 - 10. Lever trim for exit devices shall be vandal-resistant type, which will travel to a 90-degree down position when more than 35 pounds of torque are applied, and which can easily be re-set. Trim shall be heavy duty type and fastened by means of concealed welded lugs and thru bolts from the inside. Lever trim shall be forged brass with a minimum average thickness on the escutcheon of .130". Plate with pull shall be minimum average thickness of .090" and have forged pulls.
 - 11. Trim: as specified in sets, function numbers as listed in sets. Levers to match lockset design.
 - 12. Exit devices shall be UL listed panic exit hardware.
 - 13. Electrically Operated Devices: Single manufacturer source for electric latch retraction devices, electrically controlled trim, power transfers, power supplies, monitoring switches and controls.
 - 14. At non-fire rated devices, provide cylinder dogging on panic exit hardware.
 - 15. Supplier to coordinate strike type required with door and frame manufacturer or supplier.

16. Furnish glass bead kits for exit devices as required.
17. Through Bolts: For exit devices and trim on metal doors, non-fire-rated wood doors, fire-rated wood doors and fire-rated metal doors.
18. After installation of all exit devices, General Contractor to have Manufacturer's representative inspect installation. Representative shall submit a written report to the Architect with copies to the General Contractor and hardware supplier upon completion of service. This report shall include any installation errors, noting door.

2.7 CLOSERS

A. Manufacturers:

1. LCN

B. Surface Closers

1. Closers shall conform to ANSI A156.4 Grade 1 and UL 10C
2. Closers shall have fully hydraulic, full rack and pinion action with a high strength cast iron cylinder and one piece forged steel piston. Cylinder body to have 1½" piston diameter with ¾" journal double heat treated shaft, .1421" teeth thickness, full complement bearings with 1" bearing diameter chrome silicon steel spring
3. Hydraulic fluid of a type requires no seasonal adjustments; fluid has constant temperature control from 49° C to -35° C.
4. Spring power shall be continuously adjustable over the full range of closer sizes, and allow for reduced opening force for the physically handicapped. Cylinder body to have "FAST" power adjust speed dial to show spring size power.
5. Hydraulic regulation shall be by tamper-proof, non-critical screw valves, abrasion resistant advanced V-Shield Seal, adjustable with a hex wrench. Closers shall have separate adjustment for latch speed, general speed, and backcheck. Backcheck shall be properly located for protection of the door, frame, and applied hardware.
6. Closers to have standard forged steel main arm and forearm.
7. Closers will have Powder coating finish certified to exceed 100 hours salt spray testing by ETL, an independent testing laboratory used by BHMA for ANSI certification.
8. Refer to door and frame details, furnish accessories such as drop plates, special templates, spacers and supports as required to correctly install door closers. Install closers to allow maximum degree of opening, position backcheck to activate well in advance of the stop position to cushion the opening swing and prevent door and frame damage. Do not use the door closer to stop door travel.
9. Through Bolts: For surface closers at metal doors, fire-rated metal doors, non-fire-rated wood doors, and fire-rated wood doors.
10. Coordinate with door manufacturer that the top rail of the door is sized appropriately for the surface closer.
11. Doors swinging into exit corridors should provide for corridor clear width as required by applicable codes.
12. Install closers on room side of corridor doors and inside of exterior doors.

2.8 STOPS AND HOLDERS

A. Manufacturers:

1. Ives
2. Rockwood
3. Trimco

- B. Provide wall stops for doors, unless other type stops are scheduled or indicated. Where wall stops are not appropriate, provide overhead stops.
- C. Wrought, forged, or cast, approximately 2-1/2 inch diameter, convex or concave rubber center according to lock type, concealed fasteners.
- D. Silencers for Door Frames: Neoprene or rubber; fabricated for drilled-in application to frame.

2.9 KICK PLATES

- A. Manufacturers:
 - 1. Ives
 - 2. Rockwood
 - 3. Trimco
- B. Furnish .050 inches thick, 10" high x door width less 2", beveled top, bottom, and 2 sides with counter sink holes for fasteners. Where glass or louvers prevent this height, supply with height equal to height of bottom rail less 2".
- C. Fasteners: Manufacturer's standard machine or self-tapping screws.

2.10 WEATHER-STRIPPING

- A. Manufacturers:
 - 1. Zero
 - 2. National Guard Products
 - 3. Pemko
- B. Door Gasketing: Provide continuous weather-strip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated or scheduled. Provide non-corrosive fasteners for exterior applications and elsewhere as indicated. Type as listed in sets.
 - 1. Apply to head and jamb stops.
- C. Thresholds: Provide saddle thresholds with length equal to the width of the opening.
- D. Provide thresholds with anti-slip coating as scheduled.

2.11 LATCH PROTECTORS

- A. Manufacturers:
 - 1. Trimco
- B. Latch protectors shall be stainless steel.

2.12 MISCELLANEOUS

- A. Boxed Power Supplies: Modular unit in NEMA enclosure; filtered and regulated; voltage rating and type matching requirements of door hardware served; and listed and labeled for use with fire alarm systems.

- B. Furnish items not categorized in the above descriptions but specified by manufacturer's names in Hardware Sets.
- C. Supplier shall review Security/Electrical Plan for locations of security equipment provided by others.

2.13 FABRICATION

- A. 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. Do not furnish manufacturer's standard materials or forming methods if different from specified standard.

2.14 FASTENERS

- A. Including, but not limited to, wood or machine screws, bolts, nuts, anchors, etc. of proper type, material, and finish required for installation of hardware.
- B. Use phillips head for exposed screws. Do not use aluminum screws to attach hardware.
- C. Provide self-tapping (TEC) screws for attachment of sweeps and stop-applied weatherstripping only.
- D. Through Bolts: For exit devices and surface closers on non-rated metal doors, fire-rated metal doors non-fire-rated wood doors, and fire-rated wood doors.

2.15 FINISHES

- A. Generally, Satin Chrome, US26D / BHMA 626/652. Thresholds and Weatherstrip shall be Mill/Clear Finish Aluminum. Closers shall be Powder Coated Aluminum (BHMA 689). Trim and Flat Goods may be furnished in US32D (BHMA 630), Satin Stainless Steel.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 ACCEPTABLE INSTALLERS:

- A. Factory trained and certified by the lock, closer and panic hardware manufacturers. Alternative: can demonstrate suitably equivalent competence and experience.

- B. Automatic operator installer shall be factory trained, certified by AAADM, and experienced to perform the work.

3.2 EXAMINATION

- A. The General Contractor in conjunction with the hardware installer and supplying distributor shall examine doors and frames as follows.
 - 1. 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. Ensure that walls and frames are square and plumb before hardware installation.
 - 2. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. Beginning of installation means acceptance of existing conditions.

3.3 PREPARATION

- A. Wood Doors: Comply with DHI A115-W series.
- B. Steel Doors and Frames: Comply with DHI A115 series.
 - 1. Surface-Applied Door Hardware: Drill and tap doors and frames according to ANSI/SDI A250.6-97.
- C. Door and Frame Manufacturer(s) to prepare doors and frames for electronic hardware furnished by Security Contractor.

3.4 INSTALLATION

- A. Install hardware in accordance with applicable requirements of SDI, WDMA, NFPA 80, BHMA, and DHI.
- B. Install each door hardware item to comply with manufacturer's written instructions. **NOTE: NO POWER DRIVEN TOOLS SHALL BE USED FOR INSTALLATION OF LOCKSETS AND HARDWARE ON DOORS.**
 - 1. Installer may leave hardware items in place during finishing work provided such items are fully masked and protected. Remove finish materials which may penetrate masking, without damage to hardware or its finish or replace as required.
- C. Use the templates provided by hardware item manufacturer.
- D. 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. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
 - 3. Conform to ANSI A117.1 for positioning requirements for the handicapped.

4. Where new hardware is to be installed near existing doors/hardware scheduled to remain, match locations of existing hardware.
- E. Process hardware for aluminum doors in accordance with DHI handbook, Processing Hardware for Custom Aluminum Doors and Frames.
- F. Wherever cutting and fitting are required to install hardware on surfaces which are to be painted or finished by others, coordinate removal, storage, and reinstallation or application of surface protections with finishing work specified in other Sections. 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 required for proper installation and operation.
- G. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as required for proper installation and operation.
- H. Drill and countersink units, which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with referenced standards.
- I. Drill pilot holes for fasteners in wood doors and/or frames.
- J. Drawings typically depict doors at 90 degrees; doors will actually swing to maximum allowable. Template hardware for maximum allowable degree of swing.
- K. Cut and fit threshold to profile of door frames, cope around frame stops. Use single piece units.
- L. Gaskets: install jamb-applied gaskets before closers, overhead stops, rim strikes, etc. Install sweeps across bottoms of doors before astragals, cope sweeps around bottom pivots, trim astragals to tops of sweeps. Door Jamb must be cleaned of all dirt, grease, oil, solvents or solvent residue and dust before applying Pressure-Sensitive Adhesive backed Gasketing, Smoke Seal or Weatherstripping.
- M. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
- N. Locate floor stops where they do not impede traffic
- O. Boxed Power Supplies: Locate power supplies as instructed by the School District Lockshop.
 1. Configuration: Provide the least number of power supplies required to adequately serve doors with electrified door hardware.
- P. Existing frames and doors scheduled to receive new hardware: carefully remove existing hardware, inventory, tag, and bag, and turn over to Owner.
 1. Patch and fill wood frames and doors with solid wood stock or dowel material before cutting for new hardware. Do not reuse existing screw holes - - fill and re-pilot.
 2. Metal doors/frames: Weld or fasten with screws: filler pieces in existing hardware cut-outs and mortises not scheduled for re-use by new hardware. Leave surfaces smooth with applied bondo and sanded smooth- - no applied patches. Refinish doors and frame as required to match existing.
 3. Lubricate and adjust existing hardware scheduled to remain.
- Q. Automatic operator installation:
 1. Install each operator to comply with manufacturer's written instructions. Adjust controls and spring power as directed by the Architect and/or Owner and as required to meet field conditions.

2. Do not install damaged components. Fit joints to produce hairline joints free of burrs and distortion. Rigidly secure non-movement joints.
3. Mounting: Install door units plumb, level and true to line, without warp or rack of frames with manufacturers prescribed tolerances.
4. Anchor securely in place.
 - a. Install surface-mounted hardware using concealed fasteners to greatest extent possible.
 - b. Set headers and arms level and true to location with anchorage for permanent support.
5. Install actuators as instructed by the School District Lockshop.
6. Door Operators: Connect door operators to electrical power distribution system as specified in Division 26 Sections.
7. Sealants: Comply with requirements specified in Division 7 Section "Joint Sealants" to provide weather tight installation.
8. General or Electrical Contractor to install all wiring to operator on a separate circuit breaker routed into header. Install low voltage wiring from actuators to operator.
9. Install signage as required by ANSI 156.19.

3.5 ADJUSTING

- A. Adjust and check each operating hardware item, and each door assembly to ensure proper operation and function. Lubricate moving parts with lubrication type recommended by manufacturer.
- B. Replace units, which cannot be adjusted and lubricated to operate freely and smoothly.
- C. Hardware damaged by improper installation or adjustment methods to be repaired or replaced to Owner's satisfaction.
- D. Make final adjustments and lubrication immediately prior to final acceptance.
 1. Door Closers: Closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to an open position of 12 degrees shall be 5 seconds minimum.
 2. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 3. Door control devices backcheck shall be properly located for protection of the door, frame, and applied hardware.
 4. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
 5. Test door hardware operation with climate control system both at rest and while in full operation.
- E. Check latchset, lockset, and exit devices are properly installed and adjusted to ensure proper operation.
 1. Verify levers are free from binding.
 2. Ensure latchbolts and dead bolts are engaged into strike and hardware is functioning.

3.6 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.

3.7 FINAL ADJUSTMENT

- A. Wherever hardware installation is made more than one month prior to acceptance or occupancy of a space or area, return to the work during the week prior to acceptance or occupancy, and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

3.8 POST INSTALL INSPECTION

- A. Owner will engage the lock, door closer and exit device manufacturers' representative to perform inspections and to prepare inspection reports.
 - 1. The manufacturer's representative will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

3.9 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.

3.10 CLEANUP

- A. Remove protective material from hardware where present.
- B. Upon completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

3.11 ACCEPTANCE

- A. Warranty shall not start until Owner Acceptance. Acceptance shall be withheld until the following activities have been successfully completed:
 - 1. Commissioning per paragraph 1.11.
 - 2. Delivery and Acceptance of all Operations and maintenance manuals.
 - 3. Successful Final Test and Inspection of Security System.

3.12 CONTINUED MAINTENANCE SERVICE

- A. Approximately six months after the acceptance of hardware in each area, the Installer, accompanied by the representative of the latch and lock manufacturer, shall return to the project and re-adjust every item of hardware to restore proper function of doors and hardware. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures. Replace hardware items that have deteriorated or failed due to faulty design, materials or installation of hardware units. Prepare a written report of current and predictable problems in the performance of the hardware.

3.13 DOOR HARDWARE SCHEDULE

- A. It is intended the following schedule include all item of finish hardware necessary to complete the work; if a discrepancy is found in the schedule, such as a missing item, improper hardware for frame, door, or fire codes, the Preamble will be the deciding document.
- B. Hardware supplier is responsible for handing and sizing all products as listed in the hardware heading. Quantities listed are for each pair of doors, or for each single door.
- C. Manufacturer Legend:
 - 1. (IVE) Ives
 - 2. (LCN) LCN
 - 3. (SCH) Schlage
 - 4. (VON) Von Duprin
 - 5. (ZER) Zero

Hardware Group No. 001
 For use on mark/door #(s):
 20

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
6 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1 EA	KEYED REMOVABLE MULLION	KR4954-MT54	689	VON
2 EA	PANIC HARDWARE	99-L-2SI-06	626	VON
4 EA	RIM CYLINDER	20-057-ICX	626	SCH
1 EA	MORTISE CYLINDER	20-061-ICX	626	SCH
5 EA	FSIC CORE	23-030	626	SCH
2 EA	SURFACE CLOSER	4111 SHCUSH TBWMS	689	LCN
2 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2 EA	SILENCER	SR64	GY	IVE

A) NEW DOOR, EXISTING FRAME.

Hardware Group No. 002
 For use on mark/door #(s):
 30A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 003
 For use on mark/door #(s):
 31AA

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 004
For use on mark/door #(s):
33

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 005
For use on mark/door #(s):
33A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 006
For use on mark/door #(s):
44

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 007
For use on mark/door #(s):
44A

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 008
For use on mark/door #(s):
45

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 009
For use on mark/door #(s):
46

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 010
For use on mark/door #(s):
46A

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 011
For use on mark/door #(s):
47

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	MORTISE CYLINDER	20-061-ICX	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 012
For use on mark/door #(s):
48

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 013
For use on mark/door #(s):
48A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 014
For use on mark/door #(s):
1

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 015
For use on mark/door #(s):
10

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 016
For use on mark/door #(s):
10A

EACH TO HAVE:

Door Hardware - Dunn
Architecture Plus, P.C., A Professional Corporation

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PANIC HARDWARE	99-EO	626	VON

Hardware Group No. 017
For use on mark/door #(s):
10AA

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	CONT. HINGE	112HD	628	IVE
1 EA	PANIC HARDWARE	99-EO	626	VON
1 EA	SURFACE CLOSER	4111 SHCUSH TBWMS	689	LCN
1 EA	THRESHOLD	655A-E	A	ZER

- A) new frp door and new alum frame
- B) seals, door sweep x frp mfg.

Hardware Group No. 018
For use on mark/door #(s):
11

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 019
For use on mark/door #(s):
11A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PANIC HARDWARE	99-EO	626	VON

Hardware Group No. 020
For use on mark/door #(s):
11AA

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	CONT. HINGE	112HD	628	IVE
1 EA	PANIC HARDWARE	99-EO	626	VON
1 EA	SURFACE CLOSER	4111 SHCUSH TBWMS	689	LCN
1 EA	THRESHOLD	655A-E	A	ZER

- A) new frp door and new alum frame
- B) seals, door sweep x frp mfg.

Hardware Group No. 021
For use on mark/door #(s):
12

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	PANIC HARDWARE	99-L-2SI-06	626	VON
2 EA	RIM CYLINDER	20-057-ICX	626	SCH
2 EA	FSIC CORE	23-030	626	SCH
1 EA	SURFACE CLOSER	4111 SHCUSH TBWMS	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3 EA	SILENCER	SR64	GY	IVE

A) new door, new frame

Hardware Group No. 022
For use on mark/door #(s):
12A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	CONT. HINGE	112HD	628	IVE
1 EA	PANIC HARDWARE	99-EO	626	VON
1 EA	SURFACE CLOSER	4111 SHCUSH TBWMS	689	LCN
1 EA	THRESHOLD	655A-E	A	ZER

- A) new frp door and new alum frame
- B) seals, door sweep x frp mfg.

Hardware Group No. 023
For use on mark/door #(s):
12B

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 024
For use on mark/door #(s):
12C

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 025
For use on mark/door #(s):
12D

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 026
For use on mark/door #(s):
13

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 027
For use on mark/door #(s):
13A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PANIC HARDWARE	99-EO	626	VON

Hardware Group No. 028
For use on mark/door #(s):
13AA

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	CONT. HINGE	112HD	628	IVE
1 EA	PANIC HARDWARE	99-EO	626	VON
1 EA	SURFACE CLOSER	4111 SHCUSH TBWMS	689	LCN
1 EA	THRESHOLD	655A-E	A	ZER

- A) new frp door and new alum frame
- B) seals, door sweep x frp mfg.

Hardware Group No. 029
For use on mark/door #(s):
14

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 030
For use on mark/door #(s):
14A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PANIC HARDWARE	99-EO	626	VON

Hardware Group No. 031
For use on mark/door #(s):
14AA

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	CONT. HINGE	112HD	628	IVE
1 EA	PANIC HARDWARE	99-EO	626	VON
1 EA	SURFACE CLOSER	4111 SHCUSH TBWMS	689	LCN
1 EA	THRESHOLD	655A-E	A	ZER

- A) new frp door and new alum frame
- B) seals, door sweep x frp mfg.

Hardware Group No. 032
For use on mark/door #(s):
15

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH
3 EA	SILENCER	SR64	GY	IVE

- A) NEW DOOR, NEW FRAME.

Hardware Group No. 033
For use on mark/door #(s):
16

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PANIC HARDWARE	99-L-2SI-06	626	VON
2 EA	RIM CYLINDER	20-057-ICX	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 034
For use on mark/door #(s):
16A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	ELEC PANIC HARDWARE	QEL+-99-DT	626	VON

Hardware Group No. 035
For use on mark/door #(s):
17

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 036
For use on mark/door #(s):
18

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 037
For use on mark/door #(s):
19

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 038
For use on mark/door #(s):
1A

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 039
For use on mark/door #(s):
2

EACH TO HAVE:

Door Hardware - Dunn
Architecture Plus, P.C., A Professional Corporation

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 040
 For use on mark/door #(s):
 20A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1 EA	PANIC HARDWARE	99-L-2SI-06	626	VON
2 EA	RIM CYLINDER	20-057-ICX	626	SCH
2 EA	FSIC CORE	23-030	626	SCH
1 EA	SURFACE CLOSER	4111 SHCUSH TBWMS	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3 EA	SILENCER	SR64	GY	IVE

A) NEW DOOR, EXISTING FRAME.

Hardware Group No. 041
 For use on mark/door #(s):
 20AA

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 5 X 4.5	652	IVE
1 EA	PANIC HARDWARE	99-NL	626	VON
1 EA	RIM CYLINDER	20-057-ICX	626	SCH
1 EA	FSIC CORE	23-030	626	SCH
1 EA	SURFACE CLOSER	4111 EDA TBWMS	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

A) NEW DOOR, EX FRAME.

Hardware Group No. 042
 For use on mark/door #(s):
 20B

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 043
 For use on mark/door #(s):
 20BB

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 5 X 4.5	652	IVE
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

A) NEW DOOR, EX FRAME.

Hardware Group No. 044
For use on mark/door #(s):
20C

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 5 X 4.5	652	IVE
1 EA	PANIC HARDWARE	99-L-2SI-06	626	VON
2 EA	RIM CYLINDER	20-057-ICX	626	SCH
2 EA	FSIC CORE	23-030	626	SCH
1 EA	SURFACE CLOSER	4111 EDA TBWMS	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

- A) NEW DOOR, EX FRAME.
B) REUSE WALL STOP HOLD OPEN

Hardware Group No. 045
For use on mark/door #(s):
21

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1 EA	EXIT X BLANK OUTSIDE	ND25D RHO	626	SCH
1 EA	SURFACE CLOSER	4111 SHCUSH TBWMS	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3 EA	SILENCER	SR64	GY	IVE

A) NEW DOOR, EX FRAME

Hardware Group No. 046
For use on mark/door #(s):
21A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 5 X 4.5	652	IVE
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH
1 EA	SURFACE CLOSER	4111 EDA TBWMS	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

- A) NEW DOOR, EX FRAME.
B) REUSE WALL STOP HOLD OPEN.

Hardware Group No. 047
For use on mark/door #(s):
22

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 5 X 4.5	652	IVE
1 EA	VANDL ENTRANCE LOCK	ND92TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

A) NEW DOOR, EX FRAME.

Hardware Group No. 048
For use on mark/door #(s):
22AA

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	EXIT X BLANK OUTSIDE	ND25D RHO	626	SCH
1 EA	PUSH PLATE	8200 6" X 16"	630	IVE

Hardware Group No. 049
For use on mark/door #(s):
22AB

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	SGL CYL DEADBOLT (FOR 1-3/8-INCH THICK DOOR)	B660T	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 050
For use on mark/door #(s):
23

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 051
For use on mark/door #(s):
24

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 5 X 4.5	652	IVE
1 EA	VANDL ENTRANCE LOCK	ND92TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH
1 EA	WALL STOP	WS406/407CCV	630	IVE

A) NEW DOOR, EX FRAME.

Hardware Group No. 052
For use on mark/door #(s):
24A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PRIVACY LOCK	ND40S RHO	626	SCH

Hardware Group No. 053
For use on mark/door #(s):
25

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH
1 EA	SURFACE CLOSER	4111 SHCUSH TBWMS	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3 EA	SILENCER	SR64	GY	IVE

A) NEW DOOR, NEW FRAME.

Hardware Group No. 054
For use on mark/door #(s):
25A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH
1 EA	WALL STOP	WS406/407CCV	630	IVE
3 EA	SILENCER	SR64	GY	IVE

A) NEW DOOR, NEW FRAME.

Hardware Group No. 055
For use on mark/door #(s):
25AA

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 056
For use on mark/door #(s):
25B

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 057
For use on mark/door #(s):
26

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH
3 EA	SILENCER	SR64	GY	IVE

A) NEW DOOR, NEW FRAME.

Hardware Group No. 058
For use on mark/door #(s):
27

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 059
For use on mark/door #(s):
27A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PANIC HARDWARE	99-EO	626	VON

Hardware Group No. 060
For use on mark/door #(s):
28

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 061
For use on mark/door #(s):
28A

EACH TO HAVE:

Door Hardware - Dunn
Architecture Plus, P.C., A Professional Corporation

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PANIC HARDWARE	99-EO	626	VON

Hardware Group No. 062
For use on mark/door #(s):
29

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 063
For use on mark/door #(s):
29A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PANIC HARDWARE	99-EO	626	VON

Hardware Group No. 064
For use on mark/door #(s):
2A

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 065
For use on mark/door #(s):
2AA

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 066
For use on mark/door #(s):
3

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 067
For use on mark/door #(s):
30

EACH TO HAVE:

Door Hardware - Dunn
Architecture Plus, P.C., A Professional Corporation

Poudre School District
Bennett/Dunn Elementary School Renovations 2016

January 20, 2016

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 068
For use on mark/door #(s):
31

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 069
For use on mark/door #(s):
31A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	EXIT X BLANK OUTSIDE	ND25D RHO	626	SCH

Hardware Group No. 070
For use on mark/door #(s):
32

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 071
For use on mark/door #(s):
32A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	EXIT X BLANK OUTSIDE	ND25D RHO	626	SCH

Hardware Group No. 072
For use on mark/door #(s):
33B

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 073
For use on mark/door #(s):
34

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH
1 EA	SURFACE CLOSER	4111 SHCUSH TBWMS	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

A) NEW DOOR, EX FRAME.

Hardware Group No. 074
For use on mark/door #(s):
34A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PANIC HARDWARE	99-EO	626	VON

Hardware Group No. 075
For use on mark/door #(s):
35

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 076
For use on mark/door #(s):
35A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PANIC HARDWARE	99-EO	626	VON

Hardware Group No. 077
For use on mark/door #(s):
36

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 078
For use on mark/door #(s):
36A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PANIC HARDWARE	99-EO	626	VON

Hardware Group No. 079
For use on mark/door #(s):
37

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH
1 EA	SURFACE CLOSER	4011 TBWMS	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

A) NEW DOOR, EX FRAME.

Hardware Group No. 080
For use on mark/door #(s):
37A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1 EA	PRIVACY LOCK	ND40S RHO (XN12-012)	626	SCH
1 EA	WALL STOP	WS406/407CCV	630	IVE

A) NEW DOOR, EX FRAME.
B) 1-3/8-INCH THICK DOOR.

Hardware Group No. 081
For use on mark/door #(s):
38

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL ENTRANCE LOCK	ND92TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 082
For use on mark/door #(s):
39

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
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1 EA	VANDL ENTRANCE LOCK	ND92TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 083
For use on mark/door #(s):
39A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	DBL CYL COMM LOCK	ND72T RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 084
For use on mark/door #(s):
3A

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 085
For use on mark/door #(s):
3B

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PRIVACY LOCK	ND40S RHO	626	SCH

Hardware Group No. 086
For use on mark/door #(s):
3C

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PRIVACY LOCK	ND40S RHO	626	SCH

Hardware Group No. 087
For use on mark/door #(s):
4

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL ENTRANCE LOCK	ND92TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 088
For use on mark/door #(s):
40

EACH TO HAVE
A) NO WORK.

Hardware Group No. 089
For use on mark/door #(s):
40A

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 090
For use on mark/door #(s):
41

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL ENTRANCE LOCK	ND92TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 091
For use on mark/door #(s):
41A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PRIVACY LOCK	ND40S RHO	626	SCH

Hardware Group No. 092
For use on mark/door #(s):
42

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 093
For use on mark/door #(s):
42A

EACH TO HAVE:

A) NO WORK.

Hardware Group No. 094
For use on mark/door #(s):
43

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL ENTRANCE LOCK	ND92TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 095
For use on mark/door #(s):
48B

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 096
For use on mark/door #(s):
49

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 097
For use on mark/door #(s):
5

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL ENTRANCE LOCK	ND92TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 098
For use on mark/door #(s):
50

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 099
For use on mark/door #(s):
51

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 100
For use on mark/door #(s):
51A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 101
For use on mark/door #(s):
6

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL ENTRANCE LOCK	ND92TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 102
For use on mark/door #(s):
7

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 103
For use on mark/door #(s):
8

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 104
For use on mark/door #(s):
8A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PANIC HARDWARE	99-EO	626	VON

Hardware Group No. 105
For use on mark/door #(s):
8AA

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	CONT. HINGE	112HD	628	IVE
1 EA	PANIC HARDWARE	99-EO	626	VON
1 EA	SURFACE CLOSER	4111 SHCUSH TBWMS	689	LCN
1 EA	THRESHOLD	655A-E	A	ZER

- A) new frp door and new alum frame
- B) seals, door sweep x frp mfg.

Hardware Group No. 106
For use on mark/door #(s):
9

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL VESTIBULE LOCK	ND93TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 107
For use on mark/door #(s):
9A

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	PANIC HARDWARE	99-EO	626	VON

Hardware Group No. 108
For use on mark/door #(s):
9AA

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	CONT. HINGE	112HD	628	IVE
1 EA	PANIC HARDWARE	99-EO	626	VON
1 EA	SURFACE CLOSER	4111 SHCUSH TBWMS	689	LCN
1 EA	THRESHOLD	655A-E	A	ZER

- A) new frp door and new alum frame
- B) seals, door sweep x frp mfg.

Hardware Group No. 109
For use on mark/door #(s):
BR1

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	PUSH PLATE	8200 6" X 16"	630	IVE
1 EA	PULL PLATE	8303 10" 6" X 16"	630	IVE
1 EA	SURFACE CLOSER	4011 TBWMS	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
3 EA	SILENCER	SR64	GY	IVE

A) NEW DOOR, NEW FRAME

Hardware Group No. 110
For use on mark/door #(s):
BR2

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	PUSH PLATE	8200 6" X 16"	630	IVE
1 EA	PULL PLATE	8303 10" 6" X 16"	630	IVE
1 EA	SURFACE CLOSER	4011 TBWMS	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
3 EA	SILENCER	SR64	GY	IVE

A) NEW DOOR, NEW FRAME

Hardware Group No. 111
For use on mark/door #(s):
GR1

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	PUSH PLATE	8200 6" X 16"	630	IVE
1 EA	PULL PLATE	8303 10" 6" X 16"	630	IVE
1 EA	SURFACE CLOSER	4011 TBWMS	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
3 EA	SILENCER	SR64	GY	IVE

A) NEW DOOR, NEW FRAME

Hardware Group No. 112
For use on mark/door #(s):
GR2

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
3 EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	PUSH PLATE	8200 6" X 16"	630	IVE
1 EA	PULL PLATE	8303 10" 6" X 16"	630	IVE
1 EA	SURFACE CLOSER	4011 TBWMS	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
3 EA	SILENCER	SR64	GY	IVE

A) NEW DOOR, NEW FRAME

Hardware Group No. 113
For use on mark/door #(s):
20AB

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

Hardware Group No. 114
For use on mark/door #(s):
25BB

EACH TO HAVE:

<u>Qty</u>	<u>Description</u>	<u>Catalog Number</u>	<u>FIN</u>	<u>Mfr</u>
1 EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1 EA	FSIC CORE	23-030	626	SCH

END OF SECTION 08 71 00

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12C	024
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14AA	031
15	032
16	033
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20	001
20A	040
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20AB	113
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27A	059
28	060
28A	061
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29A	063
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30	067
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32A	071
33	004
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