### 08 7200

## DOOR HARDWARE

#### PART 1 - GENERAL

1.1 Refer to "General and Special Conditions", and "Instructions to Bidders", Division 1 of Specifications. Requirements of these Sections and the project drawings shall govern work in this section.

### 1.2 Work Included:

- A. Furnish all items of Finish Hardware specified, scheduled, shown or required herein except those items specifically excluded from this section of the specification.
- B. Related work:
  - 1. Division 00 00 00 Procurement and Contracting Requirements
  - 2. Division 01 00 00 General Requirements
  - 3. Division 06 00 00 Wood, Plastics, and Composites
  - 4. Division 08 00 00 Openings
  - 5. Division 10 00 00 Specialties
  - 6. Division 11 00 00 Equipment
  - 7. Division 26 00 00 Electrical
  - 8. Division 27 00 00 Communications
  - 9. Division 28 00 00 Electronic Safety and Security
- C. Specific Omissions: Hardware for the following is specified or indicated elsewhere, unless specifically listed in the hardware sets:
  - 1. Cabinet Hardware.
  - 2. Signs, except as noted.
  - 3. Folding partitions, except cylinders where detailed.
  - 4. Sliding aluminum doors
  - 5. Chain link and wire mesh doors and gates
  - 6. Access doors and panels
  - 7. Overhead and Coiling doors

## 1.3 Quality Assurance

- A. Requirements of Regulatory Agencies:
  - 1. Furnish finish hardware to comply with the requirements of laws, codes, ordinances, and regulations of the governmental authorities having jurisdiction where such requirements exceed the requirements of the Specifications.
  - 2. Furnish finish hardware to comply with the requirements of the regulations for public building accommodations for physically handicapped persons of the governmental authority having jurisdiction and to comply with Americans with Disabilities Act.

3. Provide hardware for fire-rated openings in compliance with NFPA 80 and state and local building code requirements. Provide only hardware that has been tested and listed by UL for types and sizes of doors required and complies with requirements of door and door frame labels.

## B. Hardware Supplier:

1. Shall be an established firm dealing in contract builders' hardware. He must have adequate inventory, qualified personnel on staff and be located within 100 miles of the project. The distributor must be a factory-authorized dealer for all materials required. The supplier shall be or have in employment an Architectural Hardware Consultant (AHC).

## C. Electrified Door Hardware Supplier:

- 1. Shall be an experienced door hardware supplier who has completed projects with electrified door hardware similar in material, design, and extent to that indicated for this project, whose work has resulted in construction with a record of successful in-service performance, and who is acceptable to manufacturer of primary materials.
- 2. Shall prepare data for electrified door hardware, including shop drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this project.
- 3. Shall have experience in providing consulting services for electrified door hardware installations.

## D. Pre-installation Meeting:

- 1. Before hardware installation, General Contractor/Construction Manager will request a hardware installation meeting be conducted on the installation of hardware; specifically that of locksets, closers, exit devices, overhead stops and coordinators. Manufacturer's representatives of the above products, in conjunction with the hardware supplier for the project, shall conduct the meeting. Meeting to be held at job site and attended by installers of hardware for aluminum, hollow metal and wood doors. Meeting to address proper coordination and installation of hardware, per finish hardware schedule for this specific project, by using installation manuals, hardware schedule, templates, physical product samples and installation videos.
- 2. When any electrical or pneumatic hardware is specified this meeting shall also include the following trades/installers: Electrical, Security, Alarm systems and Architect.
- 3. Convene one week or more prior to commencing work of this Section.
- 4. The Hardware Supplier shall include the cost of this meeting in his proposal.

#### E. Manufacturer:

- 1. Obtain each type of hardware (latch and locksets, hinges, closers, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.
- 2. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated.

#### 1.4 Submittals:

A. Hardware Schedule

- 1. Submit number of Hardware Schedules as directed in Division 1.
- 2. Follow guidelines established in Door & Hardware Institute Handbook (DHI) Sequence and Format for the Hardware Schedule unless noted otherwise.
- 3. Schedule will include the following:
  - Door Index including opening numbers and the assigned Finish Hardware set.
  - b. Preface sheet listing category only and manufacturer's names of items being furnished as follows:

CATEGORY	SPECIFIED	SCHEDULED
Hinges	Manufacturer A	Manufacturer B
Lock sets	Manufacturer X	Manufacturer X
Kick Plates	Open	Manufacturer Z

- c. Hardware Locations: Refer to Article 3.1 B.2 Locations.
- d. Opening Description: Single or pair, number, room locations, hand, active leaf, degree of swing, size, door material, frame material, and UL listing.
- e. Hardware Description: Quantity, category, product number, fasteners, and finish.
- f. Headings that refer to the specified Hardware Set Numbers.
- g. Scheduling Sequence shown in Hardware Sets.
- h. Product data of each hardware item, and shop drawings where required, for special conditions and specialty hardware.
- i. Electrified Hardware system operation description.
- j. "Vertical" scheduling format only. "Horizontal" schedules will be returned "Not Approved."
- k. Typed Copy.
- I. Double-Spacing.
- m. 8-1/2 x 11 inch sheets
- n. U.S. Standard Finish symbols or BHMA Finish symbols.

### B. Product Data:

- 1. Submit, in booklet form Manufacturers Catalog cut sheets of scheduled hardware.
- 2. Submit product data with hardware schedule.

## C. Samples:

- 1. Prior to submittal of the final hardware schedule and prior to final ordering of finish hardware, submit one sample, if required, of each type of exposed hardware unit, finished as required and tagged with full description for coordination with schedule.
- 2. Samples will be returned to the supplier. Units, which are acceptable and remain undamaged through submittal, review and field comparison procedures may, after final check of operation, be used in the work, within limitations of keying coordination requirements.

## D. Key Schedule:

- 1. Submit detailed schedule indicating clearly how the Owner's final keying instructions have been followed.
- 2. Submit as a separate schedule.
- E. Electrified Hardware Drawings:

- 1. Submit elevation drawings showing relationship of all electrical hardware components to door and frame. Indicate number and gage of wires required.
  - a. Include wiring drawing showing point to point wire hook up for all components.
  - b. Include system operations descriptions for each type of opening; describe each possible condition.
- F. Submit to General Contractor/Construction Manager, the factory order acknowledgement numbers for the various hardware items to be used on the project. The factory order acknowledgement numbers shall help to facilitate and expedite any service that may be required on a particular hardware item. General Contractor/Construction Manager shall keep these order acknowledgement numbers on file in the construction trailer.
- 1.5 Product Delivery, Storage, and Handling:
  - A. Label each item of hardware with the appropriate door number and Hardware Schedule heading number, and deliver to the installer so designated by the contractor.

## 1.6 Existing Conditions:

A. Where existing doors, frames and/or hardware are to remain, conditions, preparations and functions shall be field verified to confirm compatibility with specified hardware. Where any incompatibility is discovered, notify the contractor or construction manager immediately and provide a suggested solution based on industry standard business practices.

## 1.7 Warranties:

- A. Refer to Division 1 for warranty requirements.
- B. Special Warranty Periods:
  - Closers shall carry manufacturer's 30-year warranty against manufacturing defects and workmanship.
  - 2. Locksets shall carry manufacturer's 3-year warranty against manufacturing defects and workmanship.
  - 3. Exit Devices shall carry manufacturer's 3-year warranty against manufacturing defects and workmanship.
  - 4. Continuous gear hinges shall carry manufacturer's lifetime warranty to be free from defects in material and workmanship.
  - 5. Balance of items shall carry a manufacturer's 1-year warranty against manufacturing defects and workmanship.
- C. During the warranty period, replace defective work, including labor, materials and other costs incidental to the work.

PART 2 - PRODUCT

- 2.1 Furnish each category with the products of only one manufacturer unless specified otherwise; this requirement is mandatory whether various manufacturers are listed or not.
- 2.2 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.

## A. Hinges:

- 1. Furnish hinges of class and size as listed in sets or as required to match existing conditions.
- 2. Numbers used are Ives (IVE).
- 3. Equal products from Hager, McKinney and Stanley will be accepted.
- B. Continuous Gear Hinge:
  - 6063-T6 aluminum alloy, anodized finish (cap on entire hinge painted if specified).
     Manufacture to template, uncut hinges non-handed, pinless assembly, three interlocking extrusions, full height of door and frame, fasteners 410 stainless steel plated and hardened.
     Anodizing of material shall be done after fabrication of components so that all bearing slots are anodized.
  - 2. Length: 1" less than door opening height. Fastener 12-24 x 1/2" #3 Phillips keen form stainless steel self-tapping at aluminum and hollow metal doors, 12- 1/2" #3 Philips, flathead full thread at wood doors.

224XY

- 3. Furnish fire rated hinges "FR" at labeled openings.
- 4. Numbers used are Ives.
  - a. For hollow metal frames;
    - 1) Ives
    - 2) Equal products by Pemko & Select will also be accepted.
  - b. For Aluminum frames;
    - 1) Ives 112XY
    - 2) Equal products by Pemko & Select will also be accepted.
- C. Flush Bolts:
  - 1. Constant Latching: metal doors:
    - a. Ives FB50 Series
    - b. Equal product of any B.H.M.A. member.
  - 2. Constant Latching: wood doors:
    - a. Ives FB60 Series
    - b. Equal product of any B.H.M.A. member.
  - 3. Manual wood and metal doors:
    - a. Ives FB458 Series
    - b. Equal product of any B.H.M.A. member.
  - 4. Dust Proof Strikes furnish with all flush bolts, except at openings having thresholds:
    - a. Ives DP2
    - b. Equal product of any B.H.M.A. member.
- D. Locksets and Latchsets Mortise Type:
  - 1. Locksets shall be manufactured from heavy gauge steel, minimum lockcase thickness 1/8", containing components of steel with a zinc dichromate plating for corrosion resistance.

- 2. Locks are to have a standard 2 ¾" backset with a full ¾" throw two-piece stainless steel mechanical anti-friction latchbolt. Deadbolt shall be a full 1" throw, constructed of stainless steel.
- 3. Lockcase shall be easily handed without chassis disassembly by removing handing screw on lockcase and installing in opposite location on reverse side. Changing of door hand bevel from standard to reverse hand shall be done by removing the lockcase scalp plate, and pulling and rotating the latchbolt 180 degrees.
- 4. Lock trim shall be through-bolted to the door to assure correct alignment and proper operation. Lever trim shall have external spring cage mechanism to assist in support of the lever weight.
- 5. Function numbers are Schlage.
  - a. Schlage L9000
- 6. Lockset Trim:
  - a. Schlage 03N
- 7. Provide strikes with extended lips where required to protect trim from being marred by latch bolt. Provide strike lips that do not project more than 1/8" beyond door frame trim at single doors and have 7/8" lip to center at pairs of 1-3/4" doors.
- 8. Provide strikes as required to match existing conditions and preparations at existing openings.

### E. Exit Devices:

- 1. Exit devices shall be touchpad style, fabricated of brass, bronze, stainless steel, or aluminum, plated to the standard architectural finishes to match the balance of the door hardware.
- 2. All exit devices shall incorporate a fluid damper, which decelerates the touchpad on its return stroke and eliminates noise associated with exit device operation. Touchpad shall extend a minimum of one half of the door width. All latchbolts to be deadlatching type, with a self-lubricating coating to reduce wear.
- 3. End-cap will be sloped to deflect any impact from carts and they shall be flush with the external mechanism case. End caps that overlap and project above the mechanism case are unacceptable. End cap shall utilize a two-point attachment to the mounting bracket.
- 4. Touchpad shall match exit device finish, and shall be stainless steel for US26, US26D, US28, US32, and US32D finishes. Only compression springs will be used in devices, latches, and outside trims or controls.
- 5. Plastic templates shall be included with each exit device to facilitate a quick, easy and accurate installation.
- 6. Strikes shall be roller type and come complete with a locking plate to prevent movement.
- 7. All rim and vertical rod exit devices shall have passed a 5 million(5,000,000) cycle test based on ANSI A156.3, 1994, Grade 1 test standards and certified by an independent testing lab.
- 8. All mortise exit devices shall have passed a 10 million(10,000,000)cycle test based on ANSI A156.3, 1994, Grade 1 test standards and certified by an independent testing lab.
- 9. Provide cylinder dogging on panic exit hardware where noted in hardware sets.
- 10. Exit devices shall be UL listed panic exit hardware. All exit devices for fire rated openings shall be UL labeled fire exit hardware.
- 11. 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.
- 12. Von Duprin 98 and 35A Series. Series and function numbers as listed in sets.
- 13. Trim:
  - a. As specified in sets.
  - b. Levers to match lockset design where specified.

### F. Electric Strike:

- Electric strikes shall provide remote release of latchbolts. They shall be designed for use
  with the type locks shown at each opening where required. Strikes will be UL Listed for
  Burglary-Resistant Electric Door Strike, and where required, shall be UL listed as electric
  strikes for Fire Doors or Frames. Faceplates shall be stainless steel with finish as specified
  for each opening. The locking components shall be stainless steel to resist damage and
  abuse.
- 2. Solenoids shall be of the continuous duty type for the voltage specified. Plug connectors will be furnished. Strikes shall have an adjustable backbox to compensate for misalignment of door and frame.
- 3. Numbers used in sets are Von Duprin.
  - a. Von Duprin

6000 series

## G. Closers:

- 1. Door closers shall have fully hydraulic, full rack and pinion action with a high strength cast iron cylinder. Cylinder body shall be 1 ½" in diameter, and double heat treated pinion shall be 11/16" in diameter with double D slab drive arm connection.
- 2. Hydraulic fluid shall be of a type requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to –30 degrees F.
- 3. Spring power shall be continuously adjustable over the full range of closer sizes, and allow for reduced opening force for the physically handicapped. Hydraulic regulation shall be by tamper-proof, non-critical valves. Closers shall have separate adjustment for latch speed, general speed, and backcheck.
- 4. All closers shall have solid forged steel main arms (and forged forearms for parallel arm closers).
- 5. All surface mounted mechanical closers shall be certified to exceed ten million (10,000,000) full load cycles by a recognized independent testing laboratory.
- 6. 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.
- 7. Refer to door and frame details and furnish accessories such as drop plates, panel adapters, spacers and supports as required to correctly install door closers. State degree of door swing in the hardware schedule.
- 8. LCN Series as listed in sets.

## H. ADA Special Closers:

- 1. Where "Low Energy Power Operated Door" as defined by ANSI Standard A156.19 is indicated for doors required to be accessible to the disabled, provide electrically powered operators complying with the ADA requirements for opening force and time to close standards.
- 2. Full closing force shall be provided when the power or assist cycle ends.
- 3. Modular design, adjustments easily accessible from the front, UL listed for use on labeled doors.
- 4. Shall have "Second Chance" function to accommodate momentary resistance, "Breakaway" function in the electronically controlled clutch, "Soft Start" motor control function and "Maintain Hold-Open Switch" to hold the door open at 90 degree.
- 5. Shall have built in 12V and 24V power supply for actuators, card readers, electric strikes and magnetic door locks, inputs for both swing and stop side sensors and available to accept either 120VAC or 220VAC input power. All wiring connections between operator modules made by easy-to-handle electrical connectors. Shall comply with both UL and NEC requirements for Class 1 and Class 2 wiring by providing separate conduits for each.

- 6. Shall have seven independent electronic adjustments to tailor the operator for specific site conditions. Opening speed, holding force at 90 deg., sequential trigger and time delay, hold-open time at 90 deg., opening force, clutch "breakaway" force setting, electric strike trigger and time delay.
- 7. Shall have separate and independent adjustments for back check, main speed and latch speed.
- 8. LCN Series as listed in sets.
- 9. Furnish actuators and other controls as shown in Hardware Sets.

## I. Overhead Holders and Stops:

- 1. Type, function and fasteners must be same as Glynn-Johnson specified. Size per manufacturer's selector chart. Plastic end caps, hold open mechanisms and shock blocks are not allowed. End caps must be finished same as balance of unit.
- 2. Manufacture products using base material of Brass/Bronze for US3, US4, & US10B finished products and 300 Stainless Steel for US32 & US32D finished products.
- 3. Type, function, and fasteners must be the same as Glynn-Johnson specified. Size per manufacturer's selector chart.
  - a. Glynn-Johnson

### J. Kick Plates:

- 1. Furnish .050 inches thick, beveled four sides, countersunk fasteners, 10" high x door width less 2" at single doors and less 1" at pairs. Where glass or louvers prevent this height, supply with height equal to height of bottom rail less 2".
- 2. Any BHMA manufacturing product meeting above is acceptable.

## K. Wall Stops:

- 1. Length to exceed projection of all other hardware. Provide with threaded studs and expansion shields for masonry wall construction. Install with slope on top.
  - a. Ives WS33(X)
  - b. BHMA L12011 or L12021

## L. Thresholds:

- 1. 1/4" high 6" wide. Cope at jambs.
- 2. Furnish full wall opening width when frames are recessed.
- 3. Cope in front of mullions if thresholds project beyond door faces.
- 4. Furnish with non-ferrous Stainless Steel Screws and Lead Anchors.
  - a. Zero as listed in sets
  - b. Equal of NGP or Reese

## M. Door Sweeps:

- 1. Surface Sweeps:
  - Zero as listed in sets
  - b. Equal of NGP or Reese

#### N. Miscellaneous:

 Furnish items not categorized in the above descriptions but specified by manufacturer's names in Hardware Sets.

## O. Fasteners:

- Furnish fasteners of the proper type, size, quantity and finish. Use machine screws and expansion shields for attaching hardware to concrete or masonry, and wall grip inserts at hollow wall construction. Furnish machine screws for attachment to reinforced hollow metal doors and frames and reinforced aluminum doors and frames. Furnish full thread wood screws for attachment to solid wood doors and frames. "TEK" type screws are not acceptable.
- 2. Sex bolts will not be permitted on reinforced metal doors or wood doors where blocking is specified.

#### 2.3 Finishes:

- A. Generally, Satin Chrome, US26D / BHMA 626. Provide finish for each item as indicated in sets.
- 2.4 Templates and Hardware Location:
  - A. Furnish hardware made to template. Supply required templates and hardware locations to the door and frame manufacturers.
  - B. Furnish metal template to frame/door supplier for continuous hinge.
  - C. Refer to Article 3.1 B.2, Locations, and coordinate with templates.

## 2.5 Cylinders and Keying:

- A. All cylinders for this project will be supplied by one supplier regardless of door type and location.
- B. The Finish Hardware supplier will meet with Architect and/or Owner to finalize keying requirements and obtain keying instructions in writing.
  - 1. Supplier shall include the cost of this service in his proposal.
- C. Provide a cylinder and core for all hardware components capable of being locked.
- D. Provide cylinders '0' bitted per Owner's instructions. Final keying by Owner.

### PART 3 - EXECUTION

#### 3.1 Installation

## A. General:

- 1. Install hardware according to manufacturers installations and template dimensions. Attach all items of finish hardware to doors, frames, walls, etc. with fasteners furnished and required by the manufacture of the item.
- 2. Provide blocking/reinforcement for all wall mounted Hardware.
- 3. Reinforced hollow metal doors and frames and reinforced aluminum door and frames will be drilled and tapped for machine screws.

- Solid wood doors and frames: full thread wood screws. Drill pilot holes before inserting screws.
- 5. Continuous gear hinges attached to hollow metal doors and frames and aluminum doors and frames: 12-24 x 1/2" #3 Phillips Keenform self-tapping. Use #13 or 3/16 drill for pilot.
- 6. Continuous Gear Hinges require continuous mortar guards of foam or cardboard 1/2" thick x frame height, applied with construction adhesive.

#### B. Locations:

- 1. Dimensions are from finish floor to center line of items.
- 2. Include this list in Hardware Schedule.

<u>CATEGORY</u> <u>DIMENSION</u>

Hinges Door Manufacturer's Standard

Flush Bolt Levers 72" and 12"

Levers Door Manufacturer's Standard

Exit Device Touchbar Per Template Wall Stops/Holders At Head

## C. Field Quality Inspection:

- 1. Inspect material furnished, its installation and adjustment, and instruct the Owner's personnel in adjustment, care and maintenance of hardware.
- 2. Locksets and exit devices shall be inspected after installation and after the HVAC system is in operation and balanced, to insure correct installation and proper operation.
- 3. Closers shall be inspected and adjusted after the HVAC system is in operation and balanced, to insure correct installation and proper operation.
- 4. A written report stating compliance, and also locations and kinds of noncompliance shall be forwarded to the Architect with copies to the Contractor, hardware distributor, hardware installer and building owner.

#### D. Technical and Warranty Information:

- 1. At the completion of the project, the technical and warranty information coalesced and kept on file by the General Contractor/Construction Manager shall be given to the Owner or Owner's Agent. In addition to both the technical and warranty information, all factory order acknowledgement numbers supplied to the General Contractor/Construction Manager during the construction period shall be given to the Owner or Owner's Agent. The warranty information and factory order acknowledgement numbers shall serve to both expedite and properly execute any warranty work that may be required on the various hardware items supplied on the project.
- 2. Submit to General Contractor/Construction Manager, two copies each of parts and service manuals and two each of any special installation or adjustment tools. Include for locksets, exit devices, door closers and any electrical products.

### 3.2 Hardware Sets:

	are Gro	oup No. 01 /E:				
QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224XY		628	IVE
1	EA	STOREROOM LOCK	L9080BDC 03N		626	SCH
1	EA	OH STOP	90S		652	GLY
1	EA	SURFACE CLOSER	4111 EDA MC ST-2730		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER
		oup No. 02				
_	TO HA\					
QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224XY		628	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 03N 09-544 L283-711		626	SCH
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS33X		626	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER
Hardware Group No. 03 EACH TO HAVE:						
QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224XY		628	IVE
1	EA	STOREROOM LOCK	L9080BDC 03N		626	SCH
1	EA	SURFACE CLOSER	4011 MC		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS33X		626	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER
	are Gro	oup No. 04 /E:				
QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224XY		628	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 03N 09-544 L283-711		626	SCH
1	EA	SURFACE CLOSER	4111 EDA MC		689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS33X		626	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER

	are Gro	oup No. 05 /E:						
QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR		
1	EA	CONT. HINGE	224XY		628	IVE		
1	EA	OFFICE/ENTRY LOCK	L9050BDC 03N 09-544 L283-711		626	SCH		
1	EA	SURFACE CLOSER	4011		689	LCN		
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE		
1	EA	WALL STOP	WS33X		626	IVE		
1	EA	GASKETING	488SBK PSA		BK	ZER		
	Hardware Group No. 06							
	TO HAV							
QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR		
1	EA	CONT. HINGE	224XY		628	IVE		
1	EA	STOREROOM LOCK	L9080BDC 03N		626	SCH		
1	EA	WALL STOP	WS33X		626	IVE		
1	EA	GASKETING	488SBK PSA		BK	ZER		
	are Gro	oup No. 07 /E:						
QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR		
1	EA	CONT. HINGE	224XY		628	IVE		
1	EA	STOREROOM LOCK	L9080BDC 03N		626	SCH		
1	EA	SURFACE CLOSER	4111 EDA		689	LCN		
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE		
1	EA	WALL STOP	WS33X		626	IVE		
1	EA	GASKETING	488SBK PSA		BK	ZER		
	are Gro	oup No. 08						
QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR		
1	EA	CONT. HINGE	224XY		628	IVE		
1	EA	PANIC HARDWARE	CDSI-98-NL		626	VON		
2	EA	CYLINDER	(MATCH EXISTING SYSTEM)		626	VOIN		
1	EA	SURFACE CLOSER	4111 EDA MC		689	LCN		
		KICK PLATE	8400 10" X 1 1/2" LDW B-CS			IVE		
1 1	EA EA	WALL STOP/HOLDER	WS40		630 626	IVE		
·				_	0_0			
	are Gro	oup No. 09 /E:						
QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR		
1	EA	CONT. HINGE	224XY		628	IVE		
1	EA	CLASSROOM LOCK	L9070BDC 03N		626	SCH		
1	EA	OH STOP	90S		652	GLY		

	vare Gre	oup No. 10 VE:			
QTY	,	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	CLASSROOM DEADBOLT	B663BDC 12-631	626	SCH
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8302 8" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS33X	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
	vare Gro	oup No. 11 VE:			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	PRIVACY W/COIN TURN	L9044 03N 09-544 L283-722	626	SCH
1	EA	OH STOP	90S	652	GLY
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
	vare Gre	oup No. 12 VE:			
QTY	•	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	<b>CLASSROOM DEADBOLT</b>	B663BDC 12-631	626	SCH
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8302 8" 4" X 16"	630	IVE
1	EA	OH STOP	90S	652	GLY
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
	vare Gro	oup No. 13 VE:			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	KEYED PRIVACY LCOK	L9456BDC 03N 09-544 L283-722	626	SCH
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS33X	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

	ware Gr	oup No. 14					
QTY	_	DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	CONT. HINGE	224XY			628	IVE
1	EA	PUSH PLATE	8200 4" X 16"			630	IVE
1	EA	PULL PLATE	8302 8" 4" X 16"			630	IVE
1	EA	SURFACE CLOSER	4111 EDA			689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS			630	IVE
1	EA	WALL STOP	WS33X			626	IVE
1	EA	GASKETING	488SBK PSA			ВК	ZER
		oup No. 15					
	H OT H						
QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	CONT. HINGE	224XY			628	IVE
1	EA	PRIVACY W/COIN TURN	L9044 03N 09-544 L283-722			626	SCH
1	EA	SURFACE CLOSER	4011			689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS			630	IVE
1	EA	WALL STOP	WS33X			626	IVE
1	EA	GASKETING	488SBK PSA			BK	ZER
Hardware Group No. 16 EACH TO HAVE:							
QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	FIRE EXIT HARDWARE	98-L-BE-F-03			626	VON
1	EA	CYLINDER	(MATCH EXISTING SYSTEM)			626	
			(RE-USE BALANCE OF EXIST'G				
			HDWE)				
	ware Gr	oup No. 17 VE:					
QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	CONT. HINGE	224XY			710	IVE
1	EA	PANIC HARDWARE	CDSI-98-NL-OP-110MD			643E	VON
2	EA	CYLINDER	(MATCH EXISTING SYSTEM)			643e	
1	EA	ELECTRIC STRIKE	6300 FSE 12/24 VAC/VDC		N	630	VON
1	EA	RECESSED PULL	(BY DOOR MFR)				
1	EA	OH STOP	90S			643E/7 16	GLY
1	EA	SURFACE CLOSER	4111 EDA MC ST-2730			695	LCN
1	EA	DOOR SWEEP	39D			D	ZER
1						_	`

		oup No. 18			
	H TO HA				
QTY		DESCRIPTION	CATALOG NUMBER		MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	FIRE EXIT HARDWARE	98-L-NL-F-03	626	VON
1	EA	CYLINDER	(MATCH EXISTING SYSTEM)	626	
1	EA	SURFACE CLOSER	4111 EDA MC	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS33X	626	IVE
		oup No. 19			
QTY	H TO HA	VE: DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA EA	FIRE EXIT HARDWARE	98-L-NL-F-03	626	VON
1	EA EA	CYLINDER		626	VON
=	EA EA		(MATCH EXISTING SYSTEM) 90S		CLV
1		OH STOP		652	GLY
1	EA	SURFACE CLOSER	4111 EDA MC ST-2730	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
		oup No. 20			
_	H OT H				
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	
2	EA	CONT. HINGE	224XY	710	IVE
1	EA	REMOVABLE MULLION	KR4854B STAB	695	VON
1	EA	PANIC HARDWARE	CDSI-98-EO	643E	VON
1	EA	PANIC HARDWARE	CDSI-98-NL-OP-110MD	643E	VON
4	EA	CYLINDER	(MATCH EXISTING SYSTEM)	643e	
1	EA	ELECTRIC STRIKE	6300 FSE 12/24 VAC/VDC	<b>№</b> 630	VON
2	EA	RECESSED PULL	(BY DOOR MFR)		
2	EA	OH STOP	90S	643E/7 16	GLY
2	EA	SURFACE CLOSER	4111 EDA MC ST-2730	695	LCN
2	EA	DOOR SWEEP	39D	D	ZER
2	EA	THRESHOLD	65A-223	Α	ZER

# Hardware Group No. 21

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY TWP CON	<b>№</b> 628	IVE
2	EA	ELEC FIRE EXIT HARDWARE	QEL-9827-L-F-LBR-03-499F 24 VDC	<b>№</b> 626	VON
1	EA	CYLINDER	(MATCH EXISTING SYSTEM)	626	
2	EA	SURFACE CLOSER	4111 EDA MC	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	FIRE/LIFE WALL MAG	SEM7850	<b>№</b> 689	LCN
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	✓ LGR	SCE

DOORS MAY BE HELD-OPEN ELECTROMAGNETICALLY. UPON ACTIVATION OF THE BUILDING FIRE ALARM, THE DOORS WILL CLOSE AND POSITIVELY LATCH.

PANIC HARDWARE LATCHES MAY BE REMOTELY UNLATCHED.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

## Hardware Group No. 22

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY	628	IVE
2	EA	FIRE EXIT HARDWARE	9827-L-BE-F-LBR-03-499F	626	VON
2	EA	SURFACE CLOSER	4011 MC	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS33X	626	IVE

## Hardware Group No. 23

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	REVERSE PUSH LATCH	1591A	626	TRI
1	EA	SURFACE CLOSER	4013T MC	689	LCN
1	EA	WALL STOP	WS33X	626	IVE

REQUIRES MONITORING PERSONNEL TO MAINTAIN PRESSURE ON PADDLE TO PREVENT OCCUPANT FROM EXITING ROOM.

## Hardware Group No. 24

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	STOREROOM LOCK	L9080BDC 03N	626	SCH
1	EA	OH STOP	90S	652	GLY
1	EA	SURFACE CLOSER	4011 MC	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

	vare Gr	oup No. 25				
QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	224XY		710	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB		695	VON
2	EA	PANIC HARDWARE	CDSI-98-EO		643E	VON
3	EA	CYLINDER	(MATCH EXISTING SYSTEM)		643e	
2	EA	RECESSED PULL	(BY DOOR MFR)		0.00	
2	EΑ	OH STOP	908		643E/7	GLY
_	_, `	0.1.0.0.			16	02.
2	EA	SURFACE CLOSER	4111 EDA MC ST-2730		695	LCN
2	EA	DOOR SWEEP	39D		D	ZER
2	EA	THRESHOLD	65A-223		Α	ZER
		oup No. 26				
QTY	I TO HA		CATALOC NUMBER		EINIIGH	MED
2	EA	DESCRIPTION CONT. HINGE	CATALOG NUMBER		FINISH	MFR IVE
2		FIRE EXIT HARDWARE	224XY 9827-L-BE-F-LBR-03-499F		628 626	VON
2	EA EA	OH STOP	9027-L-DE-F-LDK-03-499F 90S		652	GLY
2						LCN
2	EA	SURFACE CLOSER	4011 MC		689	LCN
		oup No. 27				
	I TO HA		CATALOG NUMBER		EIN II OLL	MED
QTY	<b>-</b> ^	DESCRIPTION	CATALOG NUMBER		FINISH	
2	EA	CONT. HINGE	112XY		710	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB		695	VON
2	EA	PANIC HARDWARE	CDSI-98-EO		643E	VON
3	EA	CYLINDER	(MATCH EXISTING SYSTEM)		643e	
2	EA	RECESSED PULL	(BY DOOR MFR)		0.405/7	01.14
2	EA	OH STOP	100S		643E/7 16	GLY
2	EA	SURFACE CLOSER	4111 EDA MC		695	LCN
2	LA	JOIN AGE GEOGEN	TITIEDANIO		090	LOIN
Hardv	vare Gr	oup No. 28				
	I TO HA					
QTY		DESCRIPTION	CATALOG NUMBER			MFR
2	EA	CONT. HINGE	112XY		710	IVE
1	EA	REMOVABLE MULLION	KR4854B STAB		695	VON
1	EA	PANIC HARDWARE	CDSI-98-EO		643E	VON
1	EA	PANIC HARDWARE	CDSI-98-NL-OP-110MD		643E	VON
4	EA	CYLINDER	(MATCH EXISTING SYSTEM)		643e	
1	EA	ELECTRIC STRIKE	6300 FSE 12/24 VAC/VDC	N	630	VON
2	EA	RECESSED PULL	(BY DOOR MFR)			
2	EA	OH STOP	100S		643E/7 16	GLY
2	EA	SURFACE CLOSER	4111 EDA MC		695	LCN

# Hardware Group No. 29

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	CLASSROOM/STORERO OM	L9070/80L 03N XL12-876	626	SCH
2	EA	FINAL CORE '0' BITTED	(MATCH EXISTING KEYWAY)	626	KAB
1	EA	ELECTRIC STRIKE	6210 FSE DS	<b>№</b> 630	VON
1	EA	OH STOP	90S	652	GLY
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DESK MOUNT BUTTON	660-PB	<b>№</b> 628	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	×	VON
1	EA	ACCESS CONTROL	(BY SECURITY CONTRACTOR)		

PRESENTING AN AUTHORIZED CREDENTIAL WILL ENERGIZE THE ELECTRIC STRIKE TO ALLOW ACCESS TO CORRIDOR. THE ELECTRIC STRIKE MAY ALSO BE RELEASED WITH THE DESK MOUNTED PUSH BUTTON LOCATED AT RECEPTION. THE OUTSIDE (CORRIDOR SIDE) LEVER WILL LOCKED/UNLOCKED BY AUTHORIZED KEY.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

## Hardware Group No. 30

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	112XY		710	IVE
1	EA	STOREROOM LOCK	L9080BDC LLL 03A L283-150		643e	SCH
1	EA	ELECTRIC STRIKE	6400 FSE 12/24 VAC/VDC	N	630	VON
1	EA	RECESSED PULL	(BY DOOR MFR)			
1	EA	OH STOP & HOLDER	90H		643E/7 16	GLY
1	EA	SURFACE CLOSER	4111 EDA MC ST-2730		695	LCN
1	SET	WEATHER SEAL	(BY FRAME MFR)			
1	EA	DOOR SWEEP	39D		D	ZER
1	EA	THRESHOLD	65A-V3-223		Α	ZER

## Hardware Group No. 31

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	STOREROOM LOCK	L9080BDC 03N	626	SCH
1	EA	ELECTRIC STRIKE	6400 FSE 12/24 VAC/VDC	<b>№</b> 630	VON
1	EA	OH STOP	90S	643E/7 16	GLY
1	EA	SURFACE CLOSER	4111 EDA MC ST-2730	695	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

	vare Gr	oup No. 32 ∨E:			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY	628	IVE
1	EA	REMOVABLE MULLION	KR4954	689	VON
1	EA	PANIC HARDWARE	CDSI-98-DT	626	VON
1	EA	PANIC HARDWARE	CDSI-98-NL	626	VON
4	EA	CYLINDER	(MATCH EXISTING SYSTEM)	626	
1	EA	OH STOP & HOLDER	90H	652	GLY
2	EA	SURFACE CLOSER	4111 EDA MC	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS40	626	IVE
		oup No. 33			
	TO HA		CATALOGANIMADED	FINICIA	MED
QTY	_^	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EΑ	CONT. HINGE	224XY	628	IVE
1	EΑ	STOREROOM LOCK	L9080BDC 03N	626	SCH
1	EA	OH STOP	90S	652	GLY
Hardy		oup No. 34			
EVCH	TO HA	\ <i>/</i> E·			
	TO HA		CATALOG NUMBER	FINISH	MFR
QTY	,	DESCRIPTION	CATALOG NUMBER	FINISH 628	
		DESCRIPTION CONT. HINGE	224XY	628	IVE
QTY 1 1	EA EA	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT	224XY B663BDC 12-631	628 <b>626</b>	IVE SCH
QTY 1 <b>1</b> 1	EA EA EA	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT PUSH PLATE	224XY <b>B663BDC 12-631</b> 8200 4" X 16"	628 <b>626</b> 630	IVE SCH IVE
QTY 1 1	EA EA	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT PUSH PLATE PULL PLATE	224XY B663BDC 12-631	628 <b>626</b> 630 630	IVE SCH IVE IVE
QTY 1 1 1 1	EA EA EA EA	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT PUSH PLATE PULL PLATE OH STOP	224XY <b>B663BDC 12-631</b> 8200 4" X 16" 8302 8" 4" X 16" 90S	628 <b>626</b> 630 630 652	IVE SCH IVE IVE GLY
QTY 1 1 1 1	EA EA EA EA EA	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT PUSH PLATE PULL PLATE	224XY <b>B663BDC 12-631</b> 8200 4" X 16" 8302 8" 4" X 16"	628 <b>626</b> 630 630	IVE SCH IVE IVE
QTY 1 1 1 1 1 1	EA EA EA EA EA EA	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT PUSH PLATE PULL PLATE OH STOP SURFACE CLOSER	224XY <b>B663BDC 12-631</b> 8200 4" X 16" 8302 8" 4" X 16" 90S 4111 EDA MC ST-2730	628 <b>626</b> 630 630 652 689	IVE SCH IVE IVE GLY LCN
QTY 1 1 1 1 1 1 1 Hardv	EA EA EA EA EA EA	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT PUSH PLATE PULL PLATE OH STOP SURFACE CLOSER KICK PLATE oup No. 35 VE:	224XY <b>B663BDC 12-631</b> 8200 4" X 16" 8302 8" 4" X 16" 90S 4111 EDA MC ST-2730 8400 10" X 2" LDW B-CS	628 626 630 630 652 689 630	IVE SCH IVE IVE GLY LCN IVE
QTY 1 1 1 1 1 1 1 Hardv EACH QTY	EA EA EA EA EA EA Vare Gre	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT PUSH PLATE PULL PLATE OH STOP SURFACE CLOSER KICK PLATE  OUP No. 35 VE: DESCRIPTION	224XY B663BDC 12-631 8200 4" X 16" 8302 8" 4" X 16" 90S 4111 EDA MC ST-2730 8400 10" X 2" LDW B-CS	628 626 630 630 652 689 630	IVE SCH IVE IVE GLY LCN IVE
QTY 1 1 1 1 1 1 1 Hardv EACH QTY	EA EA EA EA EA EA Vare Gre	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT PUSH PLATE PULL PLATE OH STOP SURFACE CLOSER KICK PLATE oup No. 35 VE:	224XY <b>B663BDC 12-631</b> 8200 4" X 16" 8302 8" 4" X 16" 90S 4111 EDA MC ST-2730 8400 10" X 2" LDW B-CS	628 626 630 630 652 689 630	IVE SCH IVE IVE GLY LCN IVE
QTY 1 1 1 1 1 1 1 Hardv EACH QTY	EA EA EA EA EA TO HA EA EA	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT PUSH PLATE PULL PLATE OH STOP SURFACE CLOSER KICK PLATE  OUP No. 35 VE: DESCRIPTION CONT. HINGE REMOVABLE MULLION	224XY B663BDC 12-631 8200 4" X 16" 8302 8" 4" X 16" 90S 4111 EDA MC ST-2730 8400 10" X 2" LDW B-CS  CATALOG NUMBER 224XY KR4954	628 626 630 630 652 689 630 FINISH 628 689	IVE SCH IVE IVE GLY LCN IVE MFR IVE VON
QTY 1 1 1 1 1 1 Hardv EACH QTY 2 1	EA EA EA EA EA Vare Gra TO HA EA EA	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT PUSH PLATE PULL PLATE OH STOP SURFACE CLOSER KICK PLATE OUP No. 35 VE: DESCRIPTION CONT. HINGE REMOVABLE MULLION PANIC HARDWARE	224XY B663BDC 12-631 8200 4" X 16" 8302 8" 4" X 16" 90S 4111 EDA MC ST-2730 8400 10" X 2" LDW B-CS  CATALOG NUMBER 224XY KR4954 CDSI-98-DT	628 626 630 630 652 689 630 FINISH 628 689 626	IVE SCH IVE IVE GLY LCN IVE MFR IVE VON VON
QTY 1 1 1 1 1 1 1 Hardv EACH QTY 2 1 1	EA EA EA EA EA TO HA EA EA EA	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT PUSH PLATE PULL PLATE OH STOP SURFACE CLOSER KICK PLATE OUP No. 35 VE: DESCRIPTION CONT. HINGE REMOVABLE MULLION PANIC HARDWARE PANIC HARDWARE	224XY B663BDC 12-631 8200 4" X 16" 8302 8" 4" X 16" 90S 4111 EDA MC ST-2730 8400 10" X 2" LDW B-CS  CATALOG NUMBER 224XY KR4954 CDSI-98-DT CDSI-98-NL	628 626 630 630 652 689 630 FINISH 628 689 626 626	IVE SCH IVE IVE GLY LCN IVE MFR IVE VON
QTY 1 1 1 1 1 1 1 Hardv EACH QTY 2 1 1 1	EA EA EA EA EA EA EA EA EA EA	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT PUSH PLATE PULL PLATE OH STOP SURFACE CLOSER KICK PLATE OUP NO. 35 VE: DESCRIPTION CONT. HINGE REMOVABLE MULLION PANIC HARDWARE PANIC HARDWARE CYLINDER	224XY B663BDC 12-631 8200 4" X 16" 8302 8" 4" X 16" 90S 4111 EDA MC ST-2730 8400 10" X 2" LDW B-CS  CATALOG NUMBER 224XY KR4954 CDSI-98-DT CDSI-98-NL (MATCH EXISTING SYSTEM)	628 626 630 652 689 630 FINISH 628 689 626 626	IVE SCH IVE IVE GLY LCN IVE MFR IVE VON VON
QTY 1 1 1 1 1 1 1 Hardv EACH QTY 2 1 1 1 4 2	EA EA EA EA EA TO HA EA EA EA EA	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT PUSH PLATE PULL PLATE OH STOP SURFACE CLOSER KICK PLATE  OUP NO. 35 VE: DESCRIPTION CONT. HINGE REMOVABLE MULLION PANIC HARDWARE PANIC HARDWARE CYLINDER SURFACE CLOSER	224XY B663BDC 12-631 8200 4" X 16" 8302 8" 4" X 16" 90S 4111 EDA MC ST-2730 8400 10" X 2" LDW B-CS  CATALOG NUMBER 224XY KR4954 CDSI-98-DT CDSI-98-NL (MATCH EXISTING SYSTEM) 4111 EDA MC	628 626 630 652 689 630 FINISH 628 689 626 626 626 689	IVE SCH IVE IVE GLY LCN IVE MFR IVE VON VON VON
QTY 1 1 1 1 1 1 1 Hardv EACH QTY 2 1 1 1	EA EA EA EA EA EA EA EA EA EA	DESCRIPTION CONT. HINGE CLASSROOM DEADBOLT PUSH PLATE PULL PLATE OH STOP SURFACE CLOSER KICK PLATE OUP NO. 35 VE: DESCRIPTION CONT. HINGE REMOVABLE MULLION PANIC HARDWARE PANIC HARDWARE CYLINDER	224XY B663BDC 12-631 8200 4" X 16" 8302 8" 4" X 16" 90S 4111 EDA MC ST-2730 8400 10" X 2" LDW B-CS  CATALOG NUMBER 224XY KR4954 CDSI-98-DT CDSI-98-NL (MATCH EXISTING SYSTEM)	628 626 630 652 689 630 FINISH 628 689 626 626	IVE SCH IVE IVE GLY LCN IVE MFR IVE VON VON

# Hardware Group No. 36

GATE

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	PANIC HARDWARE	LD-98-NL-OP-110MD-WH		628	VON
1	EA	CYLINDER	(MATCH EXISTING SYSTEM)		626	
1	EA	ELECTRIC STRIKE	9400	N	630	HES
1	EA	DOOR PULL	VR910 NL		630	IVE
1	EA	ACCESS CONTROL	(BY SECURITY CONTRACTOR)			
			BALANCE OF HDWE BY GATE			
			MFR.			

PRESENTING AN AUTHORIZED CREDENTIAL WILL ENERGIZE THE ELECTRIC STRIKE TO ALLOW ACCESS. FREE EGRESS IS ALWAYS ALLOWED.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES,

## Hardware Group No. 37

## **EACH TO HAVE:**

QTY		DESCRIPTION	CATALOG NUMBER	<b>FINISH</b>	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 03N 09-544 L283-711	626	SCH
1	EA	SURFACE CLOSER	4111 EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS33X	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

## **Hardware Group No. 38**

#### **EACH TO HAVE:**

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 03N 09-544 L283-711	626	SCH
1	EA	SURFACE CLOSER	4011 MC	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS33X	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

## **Hardware Group No. 39**

### **EACH TO HAVE:**

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	<b>CLASSROOM DEADBOLT</b>	B663BDC 12-631	626	SCH
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8302 8" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4111 EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS33X	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

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END OF SECTION 08 7200