

# Addendum

No. THREE Date: 11.13.18

**Project:**

A New Eastern Shore K-6 School for  
The Baldwin County Board of Education  
Bay Minette, Alabama

**McKee Project No. 17-228**  
**Alabama Building Commission No. 2018513**

**A3.1 GENERAL MODIFICATIONS:**

The following changes and/or substitutions to the plans and specifications are hereby made a part of same and are incorporated in full force as part of the contract.

Bidders shall acknowledge receipt of this Addendum in writing on his Proposal Form.

**A3.2 SPECIFICATION MODIFICATIONS:**

- A. See the attached **Section 08300, Tornado Resistant Opening Systems (Revised 11.12.18)**, herein.
- B. See the attached **Section 08700, Finish Hardware (Revised 11.12.18)**, herein.

**A3.3 DRAWING MODIFICATIONS:**

**END OF ADDENDUM THREE**

## SECTION 08300 - TORNADO RESISTANT OPENING SYSTEMS (Revised 11.12.18)

### PART 1 – GENERAL

#### RELATED DOCUMENTS:

Drawings and general provisions of Contract including General and Supplementary Conditions and Division 1 Specification sections apply to work of this section.

#### SUMMARY

This Section includes steel doors and frames.

Related Sections: The following Sections contain requirements that relate to this Section:

1. Division 4 Section "Unit Masonry" for building anchors into and grouting frames in masonry construction.
2. Division 8 Section "Finish Hardware" for door hardware and weatherstripping.
3. Division 9 Section "Gypsum Board Assemblies," "Painting"

#### SUBMITTALS

General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Specification Sections.

Product Data for each type of door and frame specified, including details of construction, materials, dimensions, hardware preparation, core, label compliance, sound ratings, profiles, and finishes.

Shop Drawings showing fabrication and installation of steel doors and frames. Include details of each frame type, elevations of door design types, conditions at openings, details of construction, location and installation requirements of door and frame hardware and reinforcements, and details of joints and connections. Show anchorage and accessory items.

Door Schedule: Submit schedule of doors and frames using same reference numbers for details and openings as those on Contract Drawings.

1. Indicate coordination of glazing frames and stops with glass and glazing requirements.

Samples for initial selection in the form of manufacturer's color charts showing the full range of colors available for factory-finished doors and frames.

Samples for verification of each type of exposed finish required, prepared on Samples not less than 3 by 5 inches (75 by 125 mm) and of same thickness and material indicated for final unit of Work. Where finishes involve normal color and texture variations, include Sample sets showing the full range of variations expected.

Oversize Construction Certification: For door assemblies required to be fire rated and exceeding limitations of labeled assemblies, submit certification of a testing agency acceptable to authorities having jurisdiction that each door and frame assembly has been constructed to conform to design, materials, and construction equivalent to requirements for labeled construction.

## QUALITY ASSURANCE

Supplier: A direct account of the manufacturer who has on permanent staff, a certified Architectural Hardware Consultant (AHC), who will be available to consult with the Architect and Contractor regarding matters affecting the door and frame openings.

Tornado Resistant Openings Systems: Design Door and Frame Systems for compliance with Federal Emergency Management Agency (FEMA) community shelters and ANSI / ICC 500 Standard for the Design and Construction of Storm Shelters.

1. Label tornado resistant doors and frames with permanently affixed metal labels (non-Mylar) to clearly denote compliance with FEMA 361, ICC 500 and requirements of the State of Alabama (Alabama Building Commission).

Fire-Rated Door Assemblies: Units that comply with NFPA 80, are identical to door and frame assemblies tested for fire-test-response characteristics per ASTM E 152, and are labeled and listed by UL, Warnock Hersey, or another testing and inspecting agency acceptable to authorities having jurisdiction.

1. Oversize Fire-Rated Door Assemblies: For units exceeding sizes of tested assemblies, provide certification by a testing agency acceptable to authorities having jurisdiction that doors conform to all standard construction requirements of tested and labeled fire-rated door assemblies except for size.
2. Temperature-Rise Rating: Where indicated, provide doors that have a temperature-rise rating of 450 deg F (250 deg C) maximum in 30 minutes of fire exposure.

## DELIVERY, STORAGE AND HANDLING

Deliver doors and frames cardboard-wrapped or crated to provide protection during transit and job storage. Provide additional protection to prevent damage to finish of factory-finished doors and frames.

Inspect doors and frames on delivery for damage. Minor damages may be repaired provided refinished items match new work and are acceptable to Architect; otherwise, remove and replace damaged items as directed.

Store doors and frames at building site under cover. Place units on minimum 4-inch- (100-mm-) high wood blocking. Avoid using non-vented plastic or canvas shelters that could create a humidity chamber. If cardboard wrappers on doors become wet, remove cartons immediately. Provide minimum 1/4-inch (6-mm) spaces between stacked doors to promote air circulation.

## PART 2 – PRODUCTS

### MANUFACTURERS

Acceptable Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following:

Door / Frame Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Pioneer Industries
2. Rocky Mountain Metals, Inc.
3. Ambico

NOTE: Supplier to verify that manufacturers have been tested with the hardware specified.

Hardware Manufacturers:

1. Securitech - see hardware sets in this section

### GENERAL

Door and Frame Systems must be specifically designed, tested and approved, in compliance with the current Federal Emergency Management Agency (FEMA) 361 guidelines and current ANSI ICC 500 standards, to protect the general public from the extreme effects of tornados. For compliance with the ICC 500 standards, the Steel Door, Steel Frame and Hardware must be supplied as a system.

### DOORS

1. Face sheets: 14 gage galvanized steel having an A60 zinc-iron alloy coating conforming to ASTM designations A653 and A924.
2. Hinge and lock edges: 14 gage galvanized steel having an A60 zinc-iron alloy coating conforming to ASTM designations A653 and A924.

3. Continuous vertical mechanical joints with edge seams welded, filled and ground smooth.
4. Hinge reinforcements: Minimum 7 gage galvanized steel, projection welded to the edge of the door.
5. Top and bottom steel reinforcement channels, galvanized 14 gage projection welded to both face sheets on 4 inches centers.
6. Reinforce door faces with 18 gage vertical stiffeners manufactured from galvanized steel conforming to ASTM A 653 and ASTM A 924 and welded to each face sheet.
7. Reinforced lock stiles with full-height 12 gage lock reinforcing channels.
8. Fire Rating: Supply door units bearing Labels for fire ratings indicated in Door Schedule for the locations indicated.

### FRAMES

1. 14 Gauge A60 galvanized steel
2. Welded frames shall have trim faces mitered and welded and finished smooth.
3. Hinge reinforcements: Minimum 7 gauge galvanized steel
4. All frames shall be provided with dust cover boxes or mortar guards at all hardware mortises on frames to be set in masonry walls. All strike jambs shall be prepared to receive three rubber silencers.

### HARDWARE

1. Door, Frames and Hardware must be supplied as a complete System certifying all Test requirements to meet FEMA 361 / ICC500.
2. All FEMA / ICC500 hardware must be installed by a factory certified technician. **See Part 3, Installation, Paragraph 5.**
3. All rods must be concealed type for security purposes and to meet ADA..See hardware sets for product models required.

### ACCESSORIES

Anchors: Manufacturer's masonry type anchors, specified in manufacturer's printed installation instructions for project conditions. Provide the quantity of anchors per jamb as tested to meet certification.

### FINISHES:

Chemical Treatment: Treat steel surfaces to promote paint adhesion.

Factory Prime Finish: Meet requirements of ANSI A 250.10.

## PART 3 - EXECUTION

### EXAMINATION:

Verify that project conditions are acceptable before beginning installation of frames.

Do not begin installation until conditions have been properly prepared.

Correct unacceptable conditions before proceeding with installation.

### INSTALLATION:

1. Install doors and frames in accordance with manufacturer's printed installation instructions and with Steel Door Institute's recommended erection instructions for steel frames ANSI A250.1.
2. Fire Doors and Frames: Install in accordance with NFPA 80.
3. Remove temporary steel spreaders prior to installation of frames.
4. Set frames accurately in position; plumb, align and brace until permanent anchors are set. After wall construction is complete, remove temporary wood spreaders.
  - a) Field splice only at approved locations indicated on the shop drawings.
  - b) Weld, grind, and finish as required to conceal evidence of splicing on exposed faces.
5. **FEMA 361 doors shall be factory prepared and reinforced for hardware. Doors shall have internal concealed rods and associated latches. Installation shall be based upon FEMA lock manufacturer's template and install instructions. Field install or supplier shop install of FEMA concealed internal rods and rod latches as well as all surface material etc for a complete working opening MUST BE PERFORMED by Factory certified technician. A letter of compliance will be required from both Door/ Frame and Hardware supplier and authorized factory personnel.**
6. Apply hardware in accordance with hardware manufacturers' instructions and Section 08700 of these Specifications. Install hardware with only factory-provided fasteners. Install silencers. Adjust door installation to provide uniform clearance at head and jambs, to achieve maximum operational effectiveness and appearance.

### ADJUST AND CLEAN:

Adjust doors for proper operation, free from binding or other defects.

Clean and restore soiled surfaces. Remove scraps and debris and leave site in a clean condition.

Prime Coat Touch-Up: Immediately after erection, sand smooth rusted or damaged areas of prime coat, and apply touch-up of compatible air-drying primer.

PROTECTION:

Protect installed products and finished surfaces from damage during construction.

PART 4 - HARDWARE SCHEDULE

HARDWARE SET 20

Door # E104, E108

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
2	Hinge, A31031G	662 HD - 83" CONCEALED	Alum
4		CYLINDER AS REQUIRED	
1	FEMA Exit Hdwe	8VT45-G1 IHD TI RHR X 630	630
1	FEMA Exit Hdwe	8VT45 G1 IHD TI LHR X 630	630
2	Closer	CL D-4551 CS SN	689
2	Floor Stop	269 T - TALL PRISON FLR STOP	Black
1	Astragal Seal	724S - 84" EDGE ASTRAGAL	Charc
1	T/Hold, J32130	427 SA 72" X SMS J32130	628
	* by others *	PERIMETER SEAL BY OTHERS	

Hardware Set # 20 Notes:

Doors, frames, and hardware must be supplied as a complete system, as tested and approved, for compliance with FEMA 361 and ICC 500 standards.

HARDWARE SET 22

Door # E116, E133

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
6	Hinge A8111	FBB168 4.5 X 4.5 NRP, US26D	652
1	FEMA Exit Hdwe	FIRE, 8VT41 G1 IHD TI RHR X 630	630
1	FEMA Exit Hdwe	FIRE, 8VT41 G1 IHD TI LHR X 630	630
2	Closer	CL D-4551 TRI PACK SN	689
2	Kick Plate	190 S 10 X 46 .050"	630
2	Wall Stop Hldr	326 W, WALL STOP / HOLDER	626
1	Seal	726 S 22' CHARCOAL	Charc

Hardware Set # 22 Notes:

Doors, frames, and hardware must be supplied as a complete system, as tested and approved, for compliance with FEMA 361 and ICC 500 standards.

DOORS MUST BE MANUALLY CLOSED IN THE EVENT OF A WEATHER EMERGENCY.

HARDWARE SET 23

Door # E121, E134

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
6	Hinge A8111	FBB168 4.5 X 4.5 NRP, US26D	652
1	FEMA Exit Hdwe	FIRE, 8VT41 G1 IHD TI RHR X 630	630
1	FEMA Exit Hdwe	FIRE, 8VT41 G1 IHD TI LHR X 630	630
2	Closer	CL D-4551 TRI PACK SN	689
2	Kick Plate	190 S 10 X 34 .050"	630
2	Wall Stop Hldr	326 W, WALL STOP / HOLDER	626
1	Seal	726 S 20' CHARCOAL	Charc

Hardware Set # 23 Notes:

Doors, frames, and hardware must be supplied as a complete system, as tested and approved, for compliance with FEMA 361 and ICC 500 standards.

DOORS MUST BE MANUALLY CLOSED IN THE EVENT OF A WEATHER EMERGENCY.

END OF SECTION 08300



## SECTION 08700 – FINISH HARDWARE (Revised 11.12.18)

### PART 1 – GENERAL

#### RELATED DOCUMENTS

Drawings and general provisions of Contract including General and Supplementary Conditions and Division 1 Specification Sections apply to this Section.

#### SUMMARY

This Section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.

This Section includes the following:

1. Hinges.
2. Pivots.
3. Spring hinges.
4. Key control system.
5. Lock cylinders and keys.
6. Lock and latch sets.
7. Bolts.
8. Exit devices.
9. Push/pull units.
10. Closers.
11. Overhead holders.
12. Miscellaneous door control devices.
13. Door trim units.
14. Protection plates.
15. Weather-stripping for exterior doors.
16. Sound stripping for interior doors.
17. Automatic drop seals (door bottoms).
18. Astragals or meeting seals on pairs of doors.
19. Thresholds.

#### Related Sections:

The following Sections contain requirements that relate to this Section:

1. Division 8 Section "Standard Steel Doors and Frames" for silencers integral with hollow metal frames.
- 2.

2. Division 8 Section "Flush Wood Doors" for factory pre-fitting and factory pre-machining of doors for door hardware.
3. Division 8 Section "Aluminum Entrances and Storefronts" for aluminum entrance door hardware, except cylinders.

## HARDWARE ALLOWANCES

Allowance # 1: **\$ 2,000.00** for Certified AHC (Architectural Hardware Consultant) & FDAI (Fire Door Assembly Inspector – document of certification from DHI must be provided) to visit the job site at the start of the project to field verify all existing doors and frames and advise of any necessary changes to the hardware schedule and any field modifications that may be required.

Allowance # 2: **\$ 2,000.00** for Certified (must be current in the CEP program per DHI & all documents certified using current seal showing certification) AHC (Architectural Hardware Consultant) & FDAI (Fire Door Assembly Inspector – document of certification from DHI must be provided) to visit job site upon substantial completion as directed by Architect. A written report will be required for the Owner, Architect, and Contractor

Door hardware supplier's responsibilities shall be as follows:

1. Submittals: Submit through Contractor required product data, final hardware schedule; separate keying schedule, and samples as specified in this Section, unless otherwise indicated.
2. **Hardware Review Meeting: Hardware Supplier shall attend a scheduled "Hardware Review Meeting" with the Contractor, Owner and Architect representative. All Hardware products, hardware installation locations, finishes, color selections, ratings and keying is to be reviewed and discussed. The Hardware Supplier understands the Hardware Submittal is not deemed "Fully Approved" until the Owner has completed their review and given "Approval".**
3. Construction Schedule: Inform Contractor promptly of estimated times and dates that will be required to process submittals, to furnish templates, to deliver hardware, and to perform other work associated with furnishing door hardware for purposes of including this data in construction schedule. Comply with this schedule.
4. Coordination and Templates: Assist Contractor as required to coordinate hardware with other work in respect to both fabrication and installation. Furnish Contractor with templates and deliver hardware to proper locations.
5. Product Handling: Package, identify, deliver, and inventory door hardware specified in this Section.
6. Discrepancies: Based on requirements indicated in Contract Documents in effect at time of door hardware selection, furnish types, finishes, and

quantities of door hardware, including fasteners, and Owner's maintenance tools required to comply with specified requirements and as needed to install and maintain hardware. Furnish or replace any items of door hardware resulting from shortages and incorrect items at no cost to the Owner or Contractor. Obtain signed receipts from Contractor for all delivered materials.

Contractor's responsibilities shall be as follows:

1. Submittals: Coordinate and process submittals for door hardware in same manner as submittals for other work.
2. **Hardware Review Meeting: Contractor is to schedule and attend a “Hardware Review Meeting” with the Owner, Hardware Supplier and Architect Representative. All Hardware products, hardware installation locations, finishes, color selections, ratings and keying is to be reviewed and discussed. The Contractor understands the Hardware Submittal is not deemed “Fully Approved” until the Owner has completed their review and given “Approval”.**
3. Construction Schedule: Cooperate with door hardware supplier in establishing scheduled dates for submittals and delivery of templates and door hardware. Incorporate in construction schedule the times and dates related to furnishing hardware by door hardware supplier.
4. Coordination: Coordinate door hardware with other Work. Furnish hardware supplier or manufacturer with shop drawings of other work where required or requested. Verify completeness and suitability of hardware with supplier.
5. Product Handling: Provide secure lock-up for hardware delivered to the site. Inventory hardware jointly with representative of hardware supplier and issue signed receipts for all delivered materials.
6. Installation Information: The general types and approximate quantities of hardware required for this Project are indicated at the end of this Section in order to establish Contractor's costs for installation and other work not included in allowance.
7. No adjustments in Contract sum will be made for costs other than those covered by the allowances for subsequent increases or decreases in quantity of one or more hardware types that do not exceed 5 percent.

## SUBMITTALS

General: Submit the following in accordance with Conditions of Contract and Division 1 Specification sections.

Product data including manufacturers' technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.

Final hardware schedule coordinated with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Upon return of the reviewed finish hardware schedule, arrange for a meeting with the Owner and representatives of Architect. A keying schedule will be established and submitted to the Architect and Owner. After review, the keying schedule will be returned to representatives of Finish Hardware Supplier so that permanent cylinders and keys can be prepared on a timely basis.

## QUALITY ASSURANCE

Single Source Responsibility: Obtain each type of hardware (latch and lock sets, hinges, closers, etc.) from a single manufacturer.

Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the Project's vicinity, that has a record of successful in-service performance for a minimum of 10 years, for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that employs an experienced "Certified" architectural hardware consultant (AHC) " and is current with CEP program with Door and hardware Institute (DHI) all submittals will require a current certification seal of AHC "who is available to Owner, Architect, and Contractor, at reasonable times during the course of the Work, for consultation.

Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA Standard No. 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to products tested by UL, Warnock Hersey, FM, or other testing and inspecting organization acceptable to authorities having jurisdiction for use on types and sizes of doors indicated in compliance with requirements of fire-rated door and door frame labels.

## PRODUCT HANDLING

Tag each item or package separately with identification related to final hardware schedule, and include basic installation instructions with each item or package.

Packaging of door hardware is responsibility of supplier. As material is received by hardware supplier from various manufacturers, sort and repackage in containers clearly

marked with appropriate hardware set number to match set numbers of approved hardware schedule. Two or more identical sets may be packed in same container.

Inventory door hardware jointly with representatives of hardware supplier and hardware installer until each is satisfied that count is correct.

Deliver individually packaged door hardware items promptly to place of installation (shop or Project site).

Provide secure lock-up for door hardware delivered to the Project, but not yet installed. Control handling and installation of hardware items that are not immediately replaceable so that completion of the Work will not be delayed by hardware losses both before and after installation.

## MAINTENANCE

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

## PART 2 – PRODUCTS

### ACCEPTABLE MANUFACTURERS

#### Hinges

Hager Companies  
Bommer  
Stanley

1. Provide only template produced units
2. Hinge pins, except as noted, are to be provided as follows:
  - a. Steel Hinges: Steel pins
  - b. Non-ferrous Hinges: Stainless steel pins
  - c. Exterior Doors: Use Non Removable Pins
  - d. Interior Doors: Non-rising pins
  - e. Electric Hinges: Non-removable pins
3. Tips shall be flat button and matching plug, finished to match leaves.\
4. Provide number of hinges indicated but not less than three (3) hinges for door leaf of 90" or less in height and one additional hinge for each 30" of additional height.

5. Provide ball bearing hinges of the type and weight suggested by the hinge manufacturer for each type of door application.

Continuous Geared Hinges:

Hager Companies / Roton  
ABH Manufacturing  
SELECT Products Ltd  
Stanley  
National Guard Products

1. Fully Concealed Hinges, Heavy Duty
2. Conform to ANSI/BHMA A156.26-2006 Grade 1.
3. Typical hinge height shall be 1" less than nominal door height.

Lock Cylinders & Keying:

1. All cylinders must be keyed to the existing system for Baldwin County Board of Education.
2. Keys shall be furnished as follows:
  - a. 3 each Change Keys per core/or keyed alike group
  - b. 3 each Grand Master Key
  - c. 3 each Master Key per level
  - d. 3 each Control Key
3. Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall expansion capacity of 150% of the number of locks required for the project.

Electronic Hardware: Stanley/Precision; Dormakaba; Alarm Lock

1. Basis of design is Stanley Wi-Q Technology

Note: A Mandatory meeting will be required for Hardware Supplier concerning all special openings requiring electronic hardware (see Hardware Sets). No material is to be ordered until verified at this meeting. Meeting will be as directed by architect including design consultant, contractor, and owner representative.

Locksets & Latch-sets:

Stanley/Best - 40H Series, 15J Design, 630 AM  
Dormakaba - M9000 Series, LRH Design, 630 AM  
Hager Companies - 3800 Series, ESC ARC Design, 630 AM

1. Locksets and latch-sets of all manufacturers must conform to the requirements of Subparagraphs 2 and, and be approved by the Architect.
2. Mortise Type
  - a. Locksets and latch sets must conform to ANSI A156.2 Series 1000, Grade 1, and be UL Listed
  - b. Locksets and latch-sets must be heavy duty mortise type with 2-3/4 in. backset, or greater as specified, with a 3/4 inch throw latch-bolt.
  - c. Locksets shall be furnished with a cylinder housing that accepts a small format interchangeable core.
  - d. Trim to be Dormakaba LRH Design with an antimicrobial coating ('AM')

Exit Devices:

Dormakaba - 9000 Series x YR Design  
Stanley/Precision - Apex Series x 4900A Design  
Hager Companies - 4501 Series x 45 ARC Design

1. All exit devices to be of one manufacturer and provided in same finish (630 AM) and lever design as Locksets.
2. Provide sex nuts and bolts for attachment of surface applied items to doors.
3. Devices shall be UL listed. Devices for fire rated openings shall bear factory installed UL markings that indicate approval for fire rated openings.
4. All exit devices shall be touch-bar type design and Grooved aluminum extrusions are not allowed.
5. All exit devices shall comply with ANSI A156.3, Grade 1.
6. Exit devices must meet hurricane code where required.
7. Exit device trim shall be equal to Dormakaba YR design with an antimicrobial coating ('AM')

FEMA 361 Hardware

1. Refer to specification section 08300.

Closers:

Dormakaba - 8900 Series  
Stanley - D-4550 Series  
Hager Companies - 5100 Series

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FINISH HARDWARE  
**(Revised 11.12.18)**

08700-7

1. Size of units: Except as otherwise specifically indicated, comply with the manufacturer's recommendations for size of door control unit, depending upon size of door, exposure to weather and anticipated frequency of use.
  - a. Where parallel arms are indicated for closers, provide closer unit one size larger than recommended for use with standard arms.
  - b. Where manual closers are indicated for doors required to be accessible to the physically handicapped, provide adjustable units, ANSI opening force and delayed action closing.
2. Provide manual closers that are certified to exceed ten million (10,000,000) full load operating cycles by a recognized independent testing laboratory. Closers are to be fully hydraulic, rack and pinion action with high strength cast aluminum or cast iron cylinders and one piece forged steel pistons. Hydraulic fluid to be of a type requiring no seasonal adjustments for temperature. Hydraulic regulation to be controlled by tamper-proof, non-critical screw valves, adjustable with a hex by tamper-proof, non-critical screw valves, adjustable with a hex wrench. Separate adjustments for back check, general speed, and latch speed. Where detailed on double lever arm closers, provide a delayed action feature to delay closing up to one minute for maximum opening to approximately 75 degrees. Back check shall be properly located for protection of the door, frame and applied hardware.
3. Use of closers with built-in spring or cushion stops will be allowed in lieu of overhead stops.
4. All door closers shall comply with ANSI A156.4 Grade 1 and meet the standards of ANSI A117.1 for barrier-free accessibility.

Overhead Stops and Holders:

Dormakaba  
 ABH Manufacturing  
 Hager Companies

1. Conform to ANSI A156.8 Grade 1.
2. Surface Mount, Heavy or Medium Duty (refer to hardware sets)

Push/Pulls, Protection Plates:

Hager Companies  
 Rockwood Mfg  
 Burns  
 Trimco Hardware

1. Provide manufacturers standard exposed fasteners for installation, through



- bolted for matched pairs, but not of single units.
2. Provide 16 gauge minimum thickness for plates.
  3. Where specified in the schedule, push/pulls shall have an antimicrobial coating.

Threshold, Weather-stripping & Gasketing:

Zero International  
Hager Companies  
National Guard Products

1. Provide continuous weather-stripping at each edge of every exterior door leaf, except as otherwise indicated.
2. Provide type, size and profile shown as scheduled.
3. Provide non-corrosive fasteners as recommended by manufacturer for application indicated. Do not specify adhesive backed weather-strip or gasket material.
4. Where replaceable seal strips are scheduled, provide only those units where resilient or flexible seal strip is easily replaceable from stocks maintained by manufacturer.
5. Provide standard metal threshold unit of type, size and profile shown as scheduled.

FINISHES

Provide as indicated in the hardware schedule and as previously noted herein.

PART 3 – EXECUTION

INSTALLATION

Install each hardware item in compliance with manufacturer's instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, install each item completely and then remove and store in a secure place during the finish application. After completion of the finishes, reinstall each item.

1. Do not install surface mounted items until finishes have been completed on the substrate.

Conform to ANSI A117.1 for positioning requirements for the handicapped.

## PROTECTION & CLEANING

After installation, clean metal surfaces on both interior and exterior of all mortar, paint and other contaminants. After cleaning, protect work against damage.

## FINAL ADJUSTMENT

Whenever hardware is installed more than one month prior to occupancy or acceptance, return during the week prior to acceptance or occupancy and make a final inspection and adjustment of all hardware items in such space or area.

## SCHEDULE

### HARDWARE SET 01

Door # A107, A111, A122, A139a, B107, B111, B120, C111, C112, C113, C119, C123, D107, D111, D117, E115, E115a, E120, E141, F106b, F106c, F106d, F112, F112a, F116, F116a, F120, F126, F130b, F130c, F134, F135, G104, G108, G114

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
2	Cont Hinge	661 HD - 83" FULL MORTISE CONCEALED	Alum
4		CYLINDER AS REQUIRED	
1	Mullion	HC KR822 - 108"	600
1	AM Rim Exit F03	HC 2103 CD - 36" W DR LC 630AM	630AM
1	Rim Exit	HC 2101 CD 36" NO TRIM 630AM	630AM
2	Closer	CL D-4551 S "HVY DUTY STOP ARM" SN	689
2	Spacer	P45HD-110 SPACER BLOCK	689
2	Kick Plate	190 S 10 X 34 .050"	630
2	AM Offset Pull	12L - 12" CTC, 630 MV3, AGION (AM)	630AM
2	W/Strip	870 SXN 17' (1@36, 2@84")	628
1	T/Hold, J32130	412 SA 72" X WS, J32130	628
1	Drip Strip	810S - 76"	628
2	Sweep + Drip	770 SAV - 36"	628

**HARDWARE SET 01a**

Door # F132

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
1	Cont Hinge	661 HD - 83" FULL MORTISE CONCEALED	Alum
2		CYLINDER AS REQUIRED	
1	Mullion	HC KR822 - 108"	600
1	AM Rim Exit F03	HC 2103 CD - 36" W DR LC 630AM	630AM
1	Closer	CL D-4551 S "HVY DUTY STOP ARM" SN	689
1	Spacer	P45HD-110 SPACER BLOCK	689
1	Kick Plate	190 S 10 X 34 .050"	630
1	AM Offset Pull	12L - 12" CTC, 630 MV3, AGION (AM)	630AM
1	W/Strip	870 SXN 17' (1@36, 2@84")	628
1	T/Hold, J32130	412 SA 36" X WS, J32130	628
1	Drip Strip	810S - 40"	628
1	Sweep + Drip	770 SAV - 36"	628

**HARDWARE SET 02**

Door # B134, B141, E137, F121

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
1	Hinge A8112	FBB179 4.5 X 4.5, US26D	652
1	Priv F19	45 H 0 L 15J US32D - AM	630AM
1	Closer	CL D-4551 S "HVY DUTY STOP ARM" SN	689
1	Kick Plate	190 S 10 X 34 .050"	630
1	Seal	726 S 17' CHARCOAL	Charc

**HARDWARE SET 02A**

Door # A116, B103, B138, D114, D120

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
1	Hinge A8112	FBB179 4.5 X 4.5, US26D	652
1	Priv F19	45 H 0 L 15J US32D - AM	630AM
1	Closer	CL D-4551 S "HVY DUTY STOP ARM" SN	689
1	Kick Plate	190 S 10 X 34 .050"	630
1	Seal	726 S 17' CHARCOAL	Charc
1	Finger Guard	2252C HINGE SIDE FINGER GUARD	Charc
1	Finger Guard	2248A-76" FINGER GUARD	628

**HARDWARE SET 04**

Door # C101, C103, C104, C106, C107, C109, C110, C114, C116, C124, C126, C127, E101, E103, E111, E113, E114, E122, E124, E125, E127, E128, E130, E131, E136, G101, G103, G111, G113, G115, G117, G118, G120, G121, G123

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
3	Hinge A8112	FBB179 4.5 X 4.5, US26D	652
2		CYLINDER AS REQUIRED	
1	Intruder F32	45 H 7 INL 15J US32D - AM	630AM
1	Wall Stop	236 W US32D (CONCAVE TYPE), L02251	630
1	Kick Plate	190 S 10 X 34 .050"	630
1	Seal	726 S 17' CHARCOAL	Charc

**HARDWARE SET 04A**

Door # E117, E117d, E139, E139d

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
3	Hinge A8112	FBB179 4.5 X 4.5, US26D	652
2		CYLINDER AS REQUIRED	
1	AM Rim Exit	2108 CD V4908A X 36", LC US32D AM	630AM
1	Intruder F32	45 H 7 INL 15J US32D - AM	630AM
1	Wall Stop	236 W US32D (CONCAVE TYPE), L02251	630
1	Kick Plate	190 S 10 X 34 .050"	630
1	Seal	726 S 17' CHARCOAL	Charc
1	Closer	CL D-4551 TRI PACK SN	689

**HARDWARE SET 04B**

Door # A138, B142

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
3	Hinge A8112	FBB179 4.5 X 4.5 NRP, US26D	652
2		CYLINDER AS REQUIRED	
1	AM Rim Exit	2108 CD V4908A X 36", LC US32D AM	630AM
1	Closer	CL D-4551 TRI PACK SN	689
1	Wall Stop	236 W US32D (CONCAVE TYPE), L02251	630
1	Kick Plate	190 S 10 X 34 .050"	630
1	Seal	726 S 17' CHARCOAL	Charc
1	Finger Guard	2252C HINGE SIDE FINGER GUARD	Charc
1	Finger Guard	2248A-76" FINGER GUARD	628

**HARDWARE SET 04C**

Door # A101, A103, A104, A106, A114, A118, A124, A126, A127, A129, A130, A132, B101, B104, B106, B114, B116, B117, B119, B123, B127, B137, B144, B146, B147, B149, B150, B152, D101, D102, D104, D112, D116, D118, D121, D122, D124, D125, D127, D128, D130

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
3	Hinge A8112	FBB179 4.5 X 4.5, US26D	652
2		CYLINDER AS REQUIRED	
1	Intruder F32	45 H 7 INL 15J US32D - AM	630AM
1	Wall Stop	236 W US32D (CONCAVE TYPE), L02251	630
1	Kick Plate	190 S 10 X 34 .050"	630
1	Seal	726 S 17' CHARCOAL	Charc
1	Finger Guard	2252C HINGE SIDE FINGER GUARD	Charc
1	Finger Guard	2248A-76" FINGER GUARD	628

**HARDWARE SET 05**

Door # A109, A110, A113, A117, A117a, A117b, B109, B110, B113, B128, B130, B132, B136, C108, C108a, C108b, C118, C120, C121, C125, C125a, C125b, D103, D103a, D103b, D105, D108, D109, D115, D115a, D115b, D119, D120a, D123, D123a, D123b, E106, E107, E110, E112, E112a, E112b, E119a, E129, E129a, E129b, E135, E142, F101, F107, F123, F124, F131, G102, G102a, G102b, G106, G107, G110, G116, G116a, G116b

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
3	Hinge A8112	FBB179 4.5 X 4.5 NRP, US26D	652
1		CYLINDER AS REQUIRED	
1	Storerm F07	45 H 7 D 15J US32D - AM	630AM
1	Stop	WALL / FLOOR / OVERHEAD STOP AS REQ'D	
3	Silencer	307 D METAL FRAME, L03011	GREY

**HARDWARE SET 06A**

Door # A115, A115a, D113, D113a

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
3	Hinge A8112	FBB179 4.5 X 4.5 NRP, US26D	652
1		CYLINDER AS REQUIRED	
1	Classrm F05	45 H 7 R 15J US32D - AM	630AM
1	Wall Stop	236 W US32D (CONCAVE TYPE), L02251	630
1	Kick Plate	190 S 10 X 34 .050"	630
1	Finger Guard	2252C HINGE SIDE FINGER GUARD	Charc
1	Finger Guard	2248A-76" FINGER GUARD	628
3	Silencer	307 D METAL FRAME, L03011	GREY

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1	Seal	726 S 17' CHARCOAL	Charc
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**HARDWARE SET 07**

Door # A137, B123a, B127a, B129, B131, B133, B135, B137a, B139, B140, B143, F105, F114, F114b, F122, F127

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
3	Hinge A8112	FBB179 4.5 X 4.5, US26D	652
1		CYLINDER AS REQUIRED	
1	Office F04	45 H 7 A 15J US32D - AM	630AM
1	Wall Stop	236 W US32D (CONCAVE TYPE), L02251	630
1	Kick Plate	190 S 10 X 34 .050"	630
3	Silencer	307 D METAL FRAME, L03011	GREY

**HARDWARE SET 07A**

Door # A133, A134, A136

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
3	Hinge A8112	FBB179 4.5 X 4.5, US26D	652
1		CYLINDER AS REQUIRED	
1	Office F04	45 H 7 A 15J US32D - AM	630AM
1	Wall Stop	236 W US32D (CONCAVE TYPE), L02251	630
1	Kick Plate	190 S 10 X 34 .050"	630
1	Finger Guard	2252C HINGE SIDE FINGER GUARD	Charc
1	Finger Guard	2248A-76" FINGER GUARD	628
3	Silencer	307 D METAL FRAME, L03011	GREY

**HARDWARE SET 08**

Door # B108, B112, C117, C122, E105, E109, F108, F110, G105, G109

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
3	Hinge A8111	FBB168 4.5 X 4.5 NRP, US26D	652
1	Closer	CL D-4551 TRI PACK SN	689
1	Wall Stop	236 W US32D (CONCAVE TYPE), L02251	630
1	Kick Plate	190 S 10 X 34 .050"	630
1	Mop Plate	190 S 4 X 35 .050"	630
1	AM Pull Plate	33 E 4 X 16, 630 MV3, AGION (AM)	630AM
1	AM Push Plate	30 S 8 X 16, 630 MV3, AGION (AM)	630AM
3	Silencer	307 D METAL FRAME, L03011	GREY

**HARDWARE SET 08B**

Door # A108, A112, D106, D110

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
3	Hinge A8111	FBB168 4.5 X 4.5 NRP, US26D	652
1	Closer	CL D-4551 TRI PACK SN	689
1	Wall Stop	236 W US32D (CONCAVE TYPE), L02251	630
1	Kick Plate	190 S 10 X 34 .050"	630
1	Mop Plate	190 S 4 X 35 .050"	630
1	AM Pull Plate	33 E 4 X 16, 630 MV3, AGION (AM)	630AM
1	AM Push Plate	30 S 8 X 16, 630 MV3, AGION (AM)	630AM
1	Finger Guard	2252C HINGE SIDE FINGER GUARD	Charc
1	Finger Guard	2248A-76" FINGER GUARD	628
3	Silencer	307 D METAL FRAME, L03011	GREY

**HARDWARE SET 09**

Door # A102, A105, A120, A125, A128, A131, A131a, B105, B115, B118, B121, B121a, B145, B145a, B148, B151, C102, C105, C105a, C115, D126, D126a, D129, E102, E118, E119, E123, E126, E126a, E138, E140, F113, F115, F133, G112, G122

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
6	Hinge A8112	FBB179 4.5 X 4.5 NRP, US26D	652
1		CYLINDER AS REQUIRED	
1	Storerm F07	45 H 7 D 15J US32D - AM	630AM
2	Closer	CL D-4551 S "HVY DUTY STOP ARM" SN	689
2	Flushbolt	282D - 12" UL US26D, L04251	626
1	Dust Proof Stk	280X WS RP US26D, L04021	626
2	Silencer	307 D METAL FRAME, L03011	GREY

**HARDWARE SET 10**

Door # A139, A139b, A132

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
1	Cont Hinge	661 HD - 85" FULL MORTISE CONCEALED	ALUM
2		CYLINDER AS REQUIRED	
1	HC Rim Exit	HC 2103 CD 4903A 36" 630AM	630AM
1	Closer	CL D-4551 CS SN	689
1	Kick Plate	190 S 10 X 40 .050"	630
1	T/Hold, J32130	412 SA 42"	628
1	Drip Strip	810S - 46"	628

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1	W/Strip	891 SAV - 20' (1@48", 2@96")	628
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**HARDWARE SET 13**

Door # C111a

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
6	Hinge A8111	FBB168 4.5 X 4.5 NRP, US26D	652
2	UL Rim Exit	FL 2114 X 4914A 36" AM	630AM
2	Closer	CL D-4551 TRI PACK SN	689
2	Kick Plate	190 S 10 X 46 .050"	630
1	Seal	726 S 22' CHARCOAL	Charc
2	Magn Holder	EM 504 24120 X 24 V AD	689
2	Vertical Rod	FL 2201 LBR	

**HARDWARE SET 14**

Door # A115, A115a, D113, D113a, A119

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
6	Hinge A8112	FBB179 4.5 X 4.5 NRP, US26D	652
4		CYLINDER AS REQUIRED	
1	KR Mullion	KR 822-8 X 96" KEY REMOVABLE	600
1	AM Rim Exit	2101 CD EXIT ONLY, 36" LC US32D AM	630AM
1	AM Rim x F03	2103 CD 4903A, 36" LC US32D AM	630AM
2	Closer	CL D-4551 TRI PACK SN	689
2	Wall Stop	236 W US32D (CONCAVE TYPE), L02251	630
2	Kick Plate	190 S 10 X 34 .050"	630

**HARDWARE SET 15**

Door # A138a

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
8	Hinge A8111	FBB168 4.5 X 4.5 NRP, US26D	652
4		CYLINDER AS REQUIRED	
1	AM Vrod Exit	2208 CD V4908A LBR RHR 36" X 96" LC	630AM
1	AM Vrod Exit	2208 CD V4908A LBR LHR 36" X 96" LC	630AM
2	Closer	CL D-4551 TRI PACK SN	689
2	Wall Stop	236 W US32D (CONCAVE TYPE), L02251	630
2	Kick Plate	190 S 10 X 34 .050"	630
1	Seal	726 S 22' CHARCOAL	Charc
1	Meet Stiles	720 - 96" X BROWN - MEETING STILES	Brown



**HARDWARE SET 17**

Door # A139c, A139d

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
1	Rim Cyl	1E72 PAT CORMAX	626
2	Key	1AM CORMAX OPERATING CUT KEY	152
1	Power Supply	ELR 151	
1	V-Rod Exit	2201 X US32D	630
1	V-Rod Exit F03	ELR 2203	630
3	Int. Pivot	75220 X 3/4" OFFSET	626
2	Pivot Set	OP 440 X 3/4" OFFSET	626
1	Elec. Int Pivot	75200 X 3/4" OFFSET	628
1	Offset Pull	12L - 12" CTC X TB	630
1	T/Hold, J32130	427 SA 72" X SMS J32130	628
	* by others *	PERIMETER SEAL BY OTHERS	
1	Key Fob	CL 4488 KEY FOB	
1	Radio Receiver	CL 4485 RECEIVER	
1	Circuit Board	BT150-07 BATTERY BACKUP POWER TAP	

Hardware Set # 17 Notes:

Install offset PULL (7HH216) only on the "ACTIVE" leaf (RHR, right hand reverse bevel). Inactive door leaf is "EXIT ONLY" (no outside trim).

All electronic hardware must be coordinated and installed by a Stanley certified technician to meet mfg warranty requirements (ref: specifications, 08700, page 7 (note under ELECTRONIC HARDWARE) - SPECIAL note that two (2 each) BATTERIES (12VDClead acid) for battery backup option (BT150-07) - shall be furnished by others

**HARDWARE SET 18**

Door # B125a

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
4	Hinge A8112	FBB179 4.5 X 4.5, US26D	652
2		CYLINDER AS REQUIRED	
1	Intruder F32	45 H 7 INL 15J US32D - AM	630AM
1	Closer, HCS	CL D-4551 HCS SN, HOLD OPEN, COMP STOP	689

**HARDWARE SET 19**

Door # B122a, B122b, B125

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
4	Hinge A8112	FBB179 4.5 X 4.5 NRP, US26D	652
1		CYLINDER AS REQUIRED	
1	Storerm F07	45 H 7 D 15J US32D - AM	630AM
1	Closer, HCS	CL D-4551 HCS SN, HOLD OPEN, COMP STOP	689
1	Power Supply	PS 610 RF BB12-7 HR	
1	Elec Strike	ES96-F X 12/24 VDC (USE W/ CYLINDRICAL	630

**HARDWARE SET 20**

Door # E104, E108

Refer to specification section 08300.

**HARDWARE SET 22**

Door # E116, E133

Refer to specification section 08300.

**HARDWARE SET 23**

Door # E121, E134

Refer to specification section 08300.

**HARDWARE SET 24**

Door # F103

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
6	Hinge A8112	FBB179 4.5 X 4.5 NRP, US26D	652
2	Key	1AM CORMAX OPERATING CUT KEY	152
1	Storerm F07	45 H 7 D 15J US32D - AM	630AM
1	OH Stop Only	4424 OH STOP ONLY, US32D	630
1	Closer, HCS	CL D-4551 HCS SN, HOLD OPEN, COMP STOP	689
2	Flushbolt	282D - 12" UL US26D, L04251	626
1	Dust Proof Stk	280X WS RP US26D, L04021	626
2	Silencer	307 D METAL FRAME, L03011	GREY

**HARDWARE SET 25**

Door # F104

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
6	Hinge A8112	FBB179 4.5 X 4.5 NRP, US26D	652
3		CYLINDER AS REQUIRED	
1	KR Mullion	KR 822-8 X 96" KEY REMOVABLE	600
1	Rim Exit Only	2101 CD EXIT ONLY, 36"	630
1	Rim Exit F03	2103 CD 4903A X 36"	630
2	Closer	CL D-4551 S "HVY DUTY STOP ARM" SN	689
2	Silencer	307 D METAL FRAME, L03011	GREY

**HARDWARE SET 26**

Door # F106, F130, F130a

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
6	Hinge A8111	FBB168 4.5 X 4.5 NRP, US26D	652
4		CYLINDER AS REQUIRED	
1	KR Mullion	KR 822-8 X 96" KEY REMOVABLE	600
1	Rim Exit Only	2101 CD EXIT ONLY, 36"	630
1	Rim Exit (CD)	2103 CD CA-03 36" LC	630
2	Closer	CL D-4551 HS SN	689
2	Kick Plate	190 S 10 X 34 .050"	630
1	T/Hold, J32130	412 SA 72" X WS, J32130	628
1	Astragal Seal	724S - 84" EDGE ASTRAGAL	Charc
1	Seal	726 S 20' CHARCOAL	Charc
2	Pulls	12L - 12" CTC MV3 AGION	630

**HARDWARE SET 27**

Door # F106a

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
3	Hinge A8111	FBB168 4.5 X 4.5 NRP, US26D	652
2		CYLINDER AS REQUIRED	
1	AM Rim x F03	2103 CD 4903A, 36" LC US32D AM	630AM
1	Closer	CL D-4551 S "HVY DUTY STOP ARM" SN	689
1	Kick Plate	190 S 10 X 34 .050"	630
1	Seal	726 S 17' CHARCOAL	Charc

**HARDWARE SET 28**

Door # F129, F129b

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
6	Hinge A8111	FBB168 4.5 X 4.5 NRP, US26D	652
4		CYLINDER AS REQUIRED	
1	KR Mullion	KR 822-8 X 96" KEY REMOVABLE	600
1	Rim Exit Only	2101 CD EXIT ONLY, 36"	630
1	Rim Exit (CD)	4903A CD CA-03 36" LC	630
2	Closer	CL D-4551 HS SN	689
2	Kick Plate	190 S 10 X 34 .050"	630
2	Silencer	307 D METAL FRAME, L03011	GREY

Hardware Set # 28 Notes:

Closers to be templated to allow door to open 180 degrees.

**HARDWARE SET 29**

Door # F125, F125a, F128

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
1	Closer	RTS/04 RTS88 PACKAGE - CONCEALED	689
2	Push Plate	30 S 8 X 16 .050"	630
2	Armor Plate	190 S 36 X 34	630

**HARDWARE SET 30**

Door # F117

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
3	Hinge A8112	FBB179 4.5 X 4.5 NRP, US26D	652
1		CYLINDER AS REQUIRED	
1	Office F04	45 H 7 A 15J US32D - AM	630AM
1	Closer, HCS	CL D-4551 HCS SN, HOLD OPEN, COMP STOP	689
1	Floor Stop	241 F US26D, L02141	626
2	Armor Plate	190 S 36 X 34	630
3	Silencer	307 D METAL FRAME, L03011	GREY

**HARDWARE SET 99**

Door # F114a, F129a

Hardware Set # 99 Notes:

All hardware to be furnished by the overhead door supplier.

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**HARDWARE SET Owner**

<u>Qty</u>	<u>Type</u>	<u>Description</u>	<u>Finish</u>
5		CYLINDER AS REQUIRED	
1	Priv F19	45 H 0 L 15J US32D - AM	630AM
1	Storerm F07	45 H 7 D 15J US32D - AM	630AM
1	Classrm F05	45 H 7 R 15J US32D - AM	630AM
1	Office F04	45 H 7 A 15J US32D - AM	630AM
1	Office F04	45 H 7 A 15J US32D - AM	630AM
3	Closer	CL D-4551 TRI PACK SN	689

Hardware Set # Owner Notes:

Material to be turned over to the owner for maintenance purposes.

END OF SECTION 08700