SECTION 08700 - FINISH HARDWARE LINCOLN POLICE DEPT

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

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

- 1. Division 8 Section "Hollow Metal Doors and Frames" for silencers integral with hollow metal frames.
- 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.

Door hardware supplier's responsibilities shall be as follows:

- 1. <u>Submittals</u>: Submit through Contractor required product data, final hardware schedule; separate keying schedule, and samples as specified in this Section, unless otherwise indicated.
- 2. <u>Construction Schedule</u>: 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.
- 3. <u>Coordination and Templates</u>: 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.
- 4. <u>Product Handling</u>: Package, identify, deliver, and inventory door hardware specified in this Section.
- 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. <u>Submittals</u>: Coordinate and process submittals for door hardware in same manner as submittals for other work.
- 2. <u>Construction Schedule</u>: 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.
- 3. <u>Coordination</u>: 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.
- 4. <u>Product Handling</u>: 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.
- 5. <u>Installation Information</u>: 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.
- 6. 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

<u>General</u>: 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.

QUALITY ASSURANCE

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

<u>Supplier Qualifications</u>: A recognized architectural door hardware supplier that has a record of successful in-service performance for a minimum of 15 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.

<u>Fire-Rated Openings</u>: 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

<u>Maintenance Tools and Instructions</u>: 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

<u>Manufacturers</u>: Subject to compliance with requirements, manufacturers offering door hardware that may be incorporated in the Work (No other Manufacturer to be used unless prior approved by addenda)

Hinges & Pivots:

Hager Companies Stanley Dorma ABH

- 1. Provide only template produced units
- 2. Provide Phillips flat-head or machine screws for installation of units, except furnish Phillips flat-head wood screws for installation of units in to wood. Finish screw heads to match surface of hinges or pivots.
- 3. Hinge pins, except as noted, are to be provided as follows:

Steel Hinges: Steel pins

Non-ferrous Hinges: Stainless steel pins Exterior Doors: Use Non Removable Pins

Interior Doors: Non-rising pins

Electric Hinges: Non-removable pins

- 4. Tips shall be flat button and matching plug, Finished to match leaves.
- 5. 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.

- 6. Provide ball bearing hinges of the type and weight suggested by the hinge manufacturer for each type of door application.
- 7. All continuous hinges shall meet Heavy Duty frequency use ratings.

Lock Cylinders & Keying:

Best CORMAX Series Dorma – SKC Series

- 1. All cylinders shall be keyed into a New System as directed by the owner.
- 2. A Keying Meeting between Owner, Architect, and Hardware Supplier will be required to determine Owners Request for keying of all cores/cylinders, keys, etc.
- 3. Keys shall be furnished per the following:
 - a. Minimum of (2) two operating cut keys per change.
 - b. Minimum of (5) master keys per master system.
 - c. Minimum of (2) control keys.
- 4. Supply a Key Cabinet with capacity of plus 150% of keys required equal to LUND HPC

Locksets & Latch-sets:

Best Access - 45H Series, 14H Trim Dorma 1000 Series LCB Trim

- Mortise Type:
 - 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.
 - b. Locksets and latch-sets must conform to ANSI A156.2 Series 1000, Grade 1, and be UL Listed.
 - Locksets shall be furnished with a cylinder housing that accepts a small format interchangeable core.
 - d. Trim is to be BEST 14 H Dorma LCB design, US26D Finish

Exit Devices

Precision 2000 Series
Dorma 9000 Series
Fema Devices Securitech

Closers:

PROJECT 24001

FINISH HARDWARE

Dormakaba - 8900 Series Equal by Stanley / Best 9000 Series

- 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 arm.
 - 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 one million (1,000,000) full load operating cycles by a recognized independent testing laboratory. Closers are to be fully hydraulic, rack and pinion action with high strength cast 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 values, 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. 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.
- All door closers shall have a full cover.
- All door closers shall comply with ANSI A156.4 Grade 1 and meet the standards of ANSI A117.1 for barrier-free accessibility.

Push/Pulls, Protection Plates:

Hager Companies Rockwood Manufacturing Trimco

- 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. All push and pull plates shall have an antimicrobial protected coating.

Threshold, Weather-stripping & Gasketing:

PROJECT 24001

FINISH HARDWARE

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.
- 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. Proved standard metal threshold unit of type, size and profile shown as scheduled.

Electronic Hardware

- 1. Electric strike series Hager 2930 MOR
- 2.Keypad / Prox Reader Hager 2916
- 3. Power Supply Hager 2908

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 of 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.

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.

PROJECT 24001

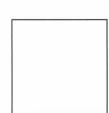
FINISH HARDWARE

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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.

Hardware SCHEDULE Follows:



Door# 101A

| Qty | Туре | Description | Finish |
|-----|-----------------|------------------------------------|--------|
| 2 | Cont Hinge, 83" | A110HDC 83" 628, EPT PREP | 628 |
| 1 | Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| 1 | Rim Cyl Hsg | 87 R 10 00 LESS CORE US26D | 626 |
| 1 | Conc V-Rod | ELR 2801 EXIT ONLY | 630 |
| 1 | CV-Rod | ELR 2803 C03 CAST PLATE, US32D | 630 |
| 2 | Power Transfer | EPT-12C | |
| 2 | Closer | 8916 DS SNTPK SN ALUM 689 | 689 |
| 2 | Drop Plate | DP 89 DROP PLATE, ALUM 689 | 689 |
| 2 | HD Spacer | BSHD SPACER (USE WITH DS, SPA) | |
| 2 | Offset Pull | 1191-5 18" CTC, US32D | 630 |
| 1 | T/Hold | 513-72" ALUM | 628 |
| 1 | * by others * | PERIMETER SEAL BY OTHERS | |
| 1 | * by others * | SWEEP STRIP BY OTHERS | |
| 1 | Power Supply | 2908 1 AMP | |
| 1 | Keypad | 2916P KEYPAD W/ PROX | 630 |

Hardware Set 02.1

Door# 3A, 3B, 6B, A165C

| Qty | Type | Description | Finish |
|-----|-----------------|------------------------------------|---------------|
| 1 | Cont Hinge, 83" | A110HDC 83" 628, EPT PREP | 628 |
| 1 | Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| 1 | Rim Cyl Hsg | 87 R 10 00 LESS CORE US26D | 626 |
| 1 | Power Transfer | EPT-12C | |
| 1 | Rim Exit ELR | ELR 2103 4903D US32D | 630 |
| 1 | Closer | 8916 DS SNTPK SN ALUM 689 | 689 |
| 1 | HD Spacer | BSHD SPACER (USE WITH DS, SPA) | |
| 1 | Offset Pull | 1191-5 18" CTC, US32D | 630 |
| 1 | T/Hold | 513-36" ALUM | 628 |
| 1 | * by others * | PERIMETER SEAL BY OTHERS | |
| 1 | * by others * | SWEEP STRIP BY OTHERS | |
| 1 | Power Supply | 2908 1 AMP | |
| 1 | Keypad | 2916P KEYPAD W/ PROX | 630 |
| | | | |

Hardware Set 02.2

Door# 149B

| Qty | Туре | Description | Finish |
|-----|-----------------|------------------------------------|--------|
| 1 | Cont Hinge, 83" | A110HDC 83" 628, EPT PREP | 628 |
| 1 | Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| 1 | Rim Cyl Hsg | 87 R 10 00 LESS CORE US26D | 626 |
| 1 | Rim Exit ELR | ELR 2103 4903D US32D | 630 |
| 1 | Closer | 8916 DS SNTPK SN ALUM 689 | 689 |
| 1 | Drop Plate | DP 89 DROP PLATE, ALUM 689 | 689 |
| 1 | HD Spacer | BSHD SPACER (USE WITH DS, SPA) | |
| 1 | Offset Pull | 1191-5 18" CTC, US32D | 630 |
| 1 | T/Hold | 513-48" ALUM | 628 |
| 1 | * by others * | PERIMETER SEAL BY OTHERS | |
| 1 | * by others * | SWEEP STRIP BY OTHERS | |
| 1 | Power Supply | 2908 1 AMP | |
| 1 | Keypad | 2916P KEYPAD W/ PROX | 630 |
| | | | |

Hardware Set 03

Door # 101B, 101C, 133, 140, 2A, 2B, 4, 6A

| Qty | Type | Description | Finish |
|-----|-----------------|-------------------------------------|--------|
| 3 | Hinge A8112 | FBB179 4.5 X 4.5, US26D | 652 |
| 1 | Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| 1 | Stor F07 | 45 H 7 D 14H, US26D CORMAX | 626 |
| 1 | Closer C02021 | 8916 AF89P AL, FC SNTPK PA SN1 | 689 |
| 1 | Wall Stop | 1270 WV "CONCAVE TYPE" US32D | 630 |
| 1 | Kick Plate | KO050 - 10 X 34 HEAVY B4E CSK US32D | 630 |
| 1 | Electric Strike | 2930 MOR US32D | 630 |
| 1 | Power Supply | 2908 1 AMP | |
| 1 | Keypad | 2916P KEYPAD W/ PROX | 630 |
| 3 | Silencers | 1229A-0 METAL FRAME | Grey |

Hardware Set 04

Door # 102, 103, 115, 144, 147A, A158, A159, A162, A163

| Qty 3 | Type Hinge A8112 | Description FBB179 4.5 X 4.5, US26D | Finish 652 |
|----------|----------------------------|---|---------------|
| 1 | Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| 1 | Dorm F13 | 45 H 7 T 14H VIN US26D | 626 |
| 1 | Closer C02011 | 8916 AF89 AL, FC SNTPK REG ARM LESS PA | 689 |
| 1 | Wall Stop | 1270 WV "CONCAVE TYPE" US32D | 630 |
| 1 | Kick Plate | KO050 - 10 X 34 HEAVY B4E CSK US32D | 630 |
| 3 | Silencers | 1229A-0 METAL FRAME | Grey |

Door # 104, 104D

| Qty | Туре | Description | Finish |
|-----|---------------|--|--------|
| 3 | Hinge A8112 | FBB179 4.5 X 4.5, US26D | 652 |
| 1 | Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| 1 | Class F05 | 45 H 7 R 14H, US26D | 626 |
| 1 | Closer C02011 | 8916 AF89 AL, FC SNTPK REG ARM LESS PA | 689 |
| 1 | Wall Stop | 1270 WV "CONCAVE TYPE" US32D | 630 |
| 1 | Kick Plate | KO050 - 10 X 34 HEAVY B4E CSK US32D | 630 |
| 3 | Silencers | 1229A-0 METAL FRAME | Grey |

Hardware Set 06

Door # 106, 111, 112, 125, 131, 136, 142, 145, 146, 147B

| Qty 3 | Type Hinge A8112 | Description FBB179 4.5 X 4.5, US26D | Finish 652 |
|----------|---------------------|--|---------------|
| 1 | Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| 1 | Stor F07 | 45 H 7 D 14H US26D | 626 |
| 1 | Closer C02011 | 8916 AF89 AL, FC SNTPK REG ARM LESS PA | 689 |
| 1 | Wall Stop | 1270 WV "CONCAVE TYPE" US32D | 630 |
| 1 | Kick Plate | KO050 - 10 X 34 HEAVY B4E CSK US32D | 630 |
| 3 | Silencers | 1229A-0 METAL FRAME | Grey |

Hardware Set 07

Door # 107, 141, A151, A152, A153, A154, A155, A156, A157A, A160

| Qty | Type | Description | Finish |
|-----|---------------|--|--------|
| 3 | Hinge A8112 | FBB179 4.5 X 4.5, US26D | 652 |
| 1 | Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| 1 | Class F05 | 45 H 7 R 14H, US26D | 626 |
| 1 | Closer C02011 | 8916 AF89 AL, FC SNTPK REG ARM LESS PA | 689 |
| 1 | Wall Stop | 1270 WV "CONCAVE TYPE" US32D | 630 |
| 1 | Kick Plate | KO050 - 10 X 34 HEAVY B4E CSK US32D | 630 |
| 3 | Silencers | 1229A-0 METAL FRAME | Grey |

Hardware Set 08

Door # 108, 110

| Qty | Туре | Description | Finish |
|-----|---------------|--|--------|
| 3 | Hinge A8112 | FBB179 4.5 X 4.5, US26D | 652 |
| 1 | Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| 1 | Office F04 | 45 H 7 AT 14H , US26D | 626 |
| 1 | Closer C02011 | 8916 AF89 AL, FC SNTPK REG ARM LESS PA | 689 |
| 1 | Wall Stop | 1270 WV "CONCAVE TYPE" US32D | 630 |
| 1 | Kick Plate | KO050 - 10 X 34 HEAVY B4E CSK US32D | 630 |
| 3 | Silencers | 1229A-0 METAL FRAME | Grey |

Door # 113, 114, 118, 120, 121, 132, 134, 135, 137, 149A, 150A, 150B

| Qty | Type | Description | Finish |
|-----|---------------|-------------------------------------|--------|
| 3 | Hinge A8112 | FBB179 4.5 X 4.5, US26D | 652 |
| 1 | Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| 1 | Office F04 | 45 H 7 AT 14H , US26D | 626 |
| 1 | Closer C02021 | 8916 AF89P AL, FC SNTPK PA SN1 | 689 |
| 1 | Wall Stop | 1270 WV "CONCAVE TYPE" US32D | 630 |
| 1 | Kick Plate | KO050 - 10 X 34 HEAVY B4E CSK US32D | 630 |
| 3 | Silencers | 1229A-0 METAL FRAME | Grey |

Hardware Set 10

Door # 116, 117

| Qty | Туре | Description | Finish |
|-----|-------------|---------------------------------------|--------|
| 3 | Hinge A8133 | F179 4.5 X 4.5, US26D | 652 |
| 1 | Passage F75 | 9K3 0 N 14D S3 4-7/8" 2-3/4" BS US26D | 626 |
| 1 | Wall Stop | 1270 WV "CONCAVE TYPE" US32D | 630 |
| 3 | Silencers | 1229A-0 METAL FRAME | Grey |

Hardware Set 11

Door # 122, 124, 129, 138, 139

| Qty | Type | Description | Finish |
|-----|---------------|-------------------------------------|--------|
| 3 | Hinge A8112 | FBB179 4.5 X 4.5, US26D | 652 |
| 1 | Priv F19 | 45 H 0 L 14H VIN (INDICATOR) US26D | 626 |
| 1 | O/H Stop Only | 9024 S "STOP ONLY" US32D, SURFACE | 630 |
| 1 | Closer C02021 | 8916 AF89P AL, FC SNTPK PA SN1 | 689 |
| 1 | Kick Plate | KO050 - 10 X 34 HEAVY B4E CSK US32D | 630 |
| 3 | Silencers | 1229A-0 METAL FRAME | Grey |

Hardware Set 12

Door # 123A, 123B, 128A, 128B

| Qty 3 | Type Hinge A8111 | Description FBB168 4.5 X 4.5, US26D | Finish 652 |
|----------|----------------------------|--|---------------|
| 1 | Closer C02011 | 8916 AF89 AL, FC SNTPK REG ARM LESS PA | 689 |
| 1 | Pull Plate | 1017-3, 4" X 16", US32D | 630 |
| 1 | Wall Stop | 1270 WV "CONCAVE TYPE" US32D | 630 |
| 1 | Push Plate | 1001-11 8 X 16 .050" US32D | 630 |
| 1 | Kick Plate | KO050 - 10 X 34 HEAVY B4E CSK US32D | 630 |
| 3 | Silencers | 1229A-0 METAL FRAME | Grey |

Door # 126

| Qty | Туре | Description | Finish |
|-----|-------------|------------------------------------|--------|
| 3 | Hinge A5112 | FBB191 4.5 X 4.5 NRP, US32D | 630 |
| 1 | Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| 1 | Stor F07 | 45 H 7 D 14H US26D | 626 |
| 1 | Closer | 8916 DS SNTPK SN ALUM 689 | 689 |
| 1 | W/Strip | 160-17' (1@36" X 2@84") ALUM | 628 |
| 1 | Sweep | 200NA-36" (914.4 MM) ALUM SS SMS | 628 |
| 1 | T/Hold | 513-36" ALUM | 628 |
| 1 | Drip Strip | 16A-40" ALUM | 628 |

Hardware Set 14

Door # 141B, 141C, 148

| Qty | Type | Description | Finish |
|-----|--------------|------------------------------------|--------|
| 3 | Hinge A5111 | FBB199 4.5 X 4.5 NRP, US32D | 630 |
| 1 | Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| 1 | FEMA UL Exit | FIRE, 84T45 G1 IHD HVL X 630 | 630 |
| 1 | Closer | 8916 DS SNTPK SN ALUM 689 | 689 |
| 1 | W/Strip | 160-17' (1@36" X 2@84") ALUM | 628 |
| 1 | Sweep | 200NA-36" (914.4 MM) ALUM SS SMS | 628 |
| 1 | T/Hold | 513-36" ALUM | 628 |

Hardware Set 15

Door # A157

| Type Cont Hinge, 83" | Description A110HDC 83" ALUM 628 FULL MORTISE | Finish 628 |
|-------------------------|---|---|
| Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| Rim Cyl Hsg | 87 R 10 00 LESS CORE US26D | 626 |
| CV-Rod Exit | 2808 4908D 3'-0" SIZE | 630 |
| Closer | 8916 DS SNTPK SN ALUM 689 | 689 |
| Drop Plate | DP 89 DROP PLATE, ALUM 689 | 689 |
| HD Spacer | BSHD SPACER (USE WITH DS, SPA) | |
| T/Hold | 513-72" ALUM | 628 |
| * by others * | PERIMETER SEAL BY OTHERS | |
| * by others * | ASTRAGAL BY OTHERS | |
| * by others * | SWEEP STRIP BY OTHERS | |
| | Cont Hinge, 83" Comb. Core Rim Cyl Hsg CV-Rod Exit Closer Drop Plate HD Spacer T/Hold * by others * * by others * | Cont Hinge, 83" A110HDC 83" ALUM 628 FULL MORTISE Comb. Core 1CM COMBINATED 7-PIN CORMAX, US26D Rim Cyl Hsg 87 R 10 00 LESS CORE US26D CV-Rod Exit 2808 4908D 3'-0" SIZE Closer 8916 DS SNTPK SN ALUM 689 Drop Plate DP 89 DROP PLATE, ALUM 689 HD Spacer BSHD SPACER (USE WITH DS, SPA) T/Hold 513-72" ALUM * by others * PERIMETER SEAL BY OTHERS * by others * ASTRAGAL BY OTHERS |

Door# A165B

| Qty | Туре | Description | Finish |
|-----|-------------|-------------------------------------|--------|
| 3 | Hinge A5111 | FBB199 4.5 X 4.5 NRP, US32D | 630 |
| 1 | Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| 1 | Rim Cyl Hsg | 87 R 10 00 LESS CORE US26D | 626 |
| 1 | Rim Exit | 2108 V4908D, 36", LC US32D | 630 |
| 1 | Closer | 8916 DS SNTPK SN ALUM 689 | 689 |
| 1 | Kick Plate | KO050 - 10 X 34 HEAVY B4E CSK US32D | 630 |
| 1 | W/Strip | 160-17' (1@36" X 2@84") ALUM | 628 |
| 1 | Sweep | 200NA-36" (914.4 MM) ALUM SS SMS | 628 |
| 1 | T/Hold | 513-36" ALUM | 628 |
| 1 | Drip Strip | 16A-40" ALUM | 628 |

Hardware Set 99

Door#

| Qty | Туре | Description | Finish |
|-----|----------------|------------------------------------|--------|
| 2 | Key | 1AM CORMAX OPERATING CUT KEY | 152 |
| 5 | Key | 1AM CORMAX MASTER KEY | 152 |
| 5 | Key | 1AM CORMAX GRANDMASTER KEY | 152 |
| 5 | Control Key | 1AM CORMAX CONTROL KEY | 152 |
| 10 | Comb. Core | 1CM COMBINATED 7-PIN CORMAX, US26D | 626 |
| 1 | Key Cab 120 Ca | HPC - KEKAB-120, 120 CAP | |
| 2 | HID Cards | 2-679-0021 HID PROX II 25 CARDS | |

Hardware Set Notes:

2 EACH ITEM 2BB065 PER EACH KEYED CORE