

SECTION 08710

FINISH HARDWARE

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

A. Section Includes

- 1. Furnishing and installation of all mechanical and electrical finish hardware necessary for all doors, and hardware as specified herein and as enumerated in hardware sets and as indicated and required by actual conditions at the building. The hardware shall include the furnishing of all necessary screws, bolts, expansion shields, drop plates, and all other devices necessary for the proper application of the hardware.

B. Related Sections

- 1. Division 6 Section - Finish Carpentry
- 2. Division 8 Section - Hollow Metal Doors and Frames
- 3. Division 8 Section - Wood Doors
- 4. Division 8 Section - Aluminum Framed Storefronts
- 5. Division 8 Section - Glass and Glazing
- 6. Division 16 Section - Electrical

C. Specific Omissions: Hardware for the following is specified or indicated elsewhere, unless specifically listed in the hardware sets:

- 1. Windows
- 2. Cabinets of all kinds, including open wall shelving and locks.
- 3. Signage, except as noted.
- 4. Complete toilet accessories excluding coat hooks, unless note otherwise.
- 5. Overhead doors, unless noted otherwise.

1.03 REFERENCES

- A. Applicable state and local building codes and standards.
- B. FIRE/LIFE SAFETY
 - 1. NFPA - National Fire Protection Association
 - a. NFPA 70 – National Electric Code
 - b. NFPA 80 - Standard for Fire Doors and Fire Windows
 - c. NFPA 101 - Life Safety Code
 - d. NFPA 105 - Smoke and Draft Control Door Assemblies
- C. UL - Underwriters Laboratories
 - 1. UL 10B - Fire Test of Door Assemblies
 - 2. UL 10C - Positive Pressure Test of Fire Door Assemblies
 - 3. UL 1784 - Air Leakage Tests of Door Assemblies
 - 4. UL 305 - Panic Hardware
- D. Accessibility
 - 1. ADA - Americans with Disabilities Act
 - 2. ICC (CABO) / ANSI A117.1 - Accessible and Usable Buildings and Facilities
 - 3. Maine Human Rights Act
- E. DHI - Door and Hardware Institute
 - 1. Sequence and Format for the Hardware Schedule
 - 2. Recommended Locations for Builders Hardware
- F. ANSI - American National Standards Institute
 - 1. ANSI/BHMA A156.1 - A156.29, and ANSI A156.31 - Standards for Hardware and Specialties

1.04 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 requirements. Prior to submittal field verify existing doors and/or frames receiving new hardware and/or existing conditions receiving new openings. Verify new hardware is compatible with the

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 2 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

existing door/frame preparation and/or existing conditions. Advise architect within the submittal package of incompatibility or issues.

- B. Catalog Cuts: 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.
- C. Final Hardware Schedule Content: Submit schedule with hardware sets in vertical format as illustrated by the Sequence of Format for the Hardware Schedule as published by the Door and Hardware Institute. Indicate complete designations of each item required for each door or opening, Include the following information:
 - 1. Door Index; include door number, heading number, and Architects hardware set number.
 - 2. Opening Lock Function Spreadsheet; list locking device and function for each opening.
 - 3. Type, style, function, size, and finish of each hardware item.
 - 4. Name and manufacturer of each item.
 - 5. Fastenings and other pertinent information.
 - 6. Location of each hardware set cross-referenced to indications on Drawings.
 - 7. Explanation of all abbreviations, symbols, and codes contained in schedule.
 - 8. Mounting locations for hardware.
 - 9. Door and frame sizes and materials.
 - 10. Name and phone number for the local manufacturer's representative for each product.
 - 11. Operational Description of openings with any electrified hardware (locks, exits, electromagnetic locks, electric strikes, automatic operators, door position switches, magnetic holders or closer/holder units, and/or access control components). Operational description should include how the door will operate on egress, ingress, and/or fire/smoke alarm connection.
- D. Key Schedule: After a keying meeting between representatives of the Owner, Architect, hardware supplier, and, if requested, the representative for the lock manufacturer, provide a keying schedule, listing the levels of keying, as well as an explanation of the key system's function, the key symbols used, and the door numbers controlled. Utilize ANSI A156.28 "Recommended Practices for Keying Systems" as a guideline for nomenclature, definitions, and approach for selecting the optimal keying system.
- E. Samples: If requested by the Architect, submit production sample or sample installations as requested of each type of exposed hardware unit in the finish indicated, and tagged with a full description for coordination with the schedule.

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 3 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

1. Samples will be returned to the supplier in like-new condition. Units that are acceptable to the Architect may, after final check of operations, be incorporated into the Work, within limitations of key coordination requirements.
- F. Templates: After final approval of the hardware schedule, provide templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware.
- G. Riser and Wiring Diagrams: After final approval of the hardware schedule, submit riser and wiring diagrams as required for the proper installation of complete electrical, electromechanical, and electromagnetic products.
- H. Operations and Maintenance Data: Provide in accordance with Division 1 and include the following:
1. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
 2. Catalog pages for each product.
 3. Name, address, and phone number of local representative for each manufacturer.
 4. Parts list for each product.
 5. Copy of final approved hardware schedule, edited to reflect "As installed."
 6. Copy of final keying schedule.
 7. As installed "Wiring Diagrams" for each opening connected to power, both low voltage and 110 volts.
 8. One (1) complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.
 9. Copy of warranties including appropriate reference numbers for manufacturers to identify the project.
- I. Certificates of Compliance: Upon request of Architect or Authority Having Jurisdiction certificates of compliance for fire-rated hardware and installation instructions shall be made available.

1.05 QUALITY ASSURANCE

- A. Substitutions: Products are to be those specified to ensure a uniform basis of acceptable materials. Requests for substitutions must be made in accordance with Division 1 requirements. If proposing a substitute product, submit product data for the proposed item with product data for the specified item and indicate basis for substitution and savings to be made. Provide sample if requested. Certain products have been selected for their unique characteristics and particular project suitability.

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 4 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

1. Items specified as "no substitute" shall be provided exactly as listed.
 2. Items listed with no substitute manufacturers listed have been requested by the Owner or Architect to match existing for continuity and/or future performance and maintenance standards or because there is no known equal product.
 3. If no other products are listed in a category, then "no substitute" is implied.
- B. **Supplier Qualifications:** A recognized architectural hardware supplier, with warehousing facilities in the Project's vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that provides a certified Architectural Hardware Consultant (AHC) available to the Owner, Architect, and Contractor, at reasonable times during the course of the Work for consultation.
- C. **Single Source Responsibility:** Obtain each type of hardware (latch and locksets, hinges, exit devices, closers, etc.) from a single manufacturer.
- D. **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 Underwrites Laboratories, Intertek Testing Services, or other testing and inspecting organizations acceptable to the authorities having jurisdiction for use on types and sizes of doors indicated in compliance with requirements of fire-rated door and door frame labels.
- E. **Electronic Security Hardware:** When electrified hardware is included in the hardware specification, the hardware supplier must employ an individual knowledgeable in electrified components and systems, who is capable of producing wiring diagrams and consulting as needed. Coordinate installation of the electronic security hardware with the Architect and electrical engineers and provide installation and technical data to the Architect and other related subcontractors. Upon completion of electronic security hardware installation, inspect and verify that all components are working properly.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Tag each item or package separately with identification related to the final hardware schedule, and include installation instructions with each item or package.
- B. Each article of hardware shall be individually packaged in manufacturer's original packaging.
- C. Contractor will provide secure lock-up for door hardware delivered to the Project, but not yet installed. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
- D. Items damaged in shipment shall be replaced promptly and with proper material and paid for by whomever did the damage or caused the damage to occur.
- E. Hardware shall be handled in a manner to avoid damage, marring, or scratching. Irregularities that occur to the hardware after it has been delivered to the Project shall be corrected, replaced, or

repaired by the Contractor. Hardware shall be protected against malfunction due to paint, solvent, cleanser, or any chemical agent.

F. No direct shipments will be allowed unless approved by the Contractor.

1.07 WARRANTY

A. Provide manufacturer's warranties as specified in Division 1 and as follows:

1. Closers: 10 years, except electronic closers, 2 years.
2. Exit Devices: 3 years, except electrified devices, 1 year.
3. Locksets: 3 years, except electrified locksets, 1 year.
4. Continuous Hinges: 10 years.
5. Other hardware: 1 year.

B. No liability is to be assumed where damage or faulty operation is due to improper installation, improper use, or abuse.

C. Products judged to be defective during the warranty period shall be replaced or repaired in accordance with the manufacturer's warranty, at no additional cost to the Owner.

1.08 MAINTENANCE

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

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Approval of manufacturers other than those listed shall be in accordance with paragraph 1.05.A.

B. Note that even though an acceptable substitute manufacturer may be listed, the product must provide all the functions and features of the specified product or it will not be approved.

Item	Scheduled Manufacturer	Acceptable Substitute
Hinges	Ives (IVE)	Hager, McKinney, Stanley
Continuous Hinges	Ives (IVE)	Markar, McKinney, Stanley
Electric Power Transfer	Von Duprin (VON)	Dor-O-Matic, Markar
Emergency Release Pivots	McKinney (MCK)	Ives, Rixson, Hager, Stanley

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 6 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

Double Lipped Strikes	McKinney (MCK)	Donjo, Hager, Stanley
Emergency Stop	McKinney (MCK)	Hager, Stanley
Flush Bolts & Coordinators	Ives (IVE)	Burns, Rockwood
Locksets & Deadlocks	Schlage (SCH)	Best, Sargent
Exit Devices & Mullions	Von Duprin (VON)	Monarch, Precision, Sargent
Hospital Latches	Glynn-Johnson (GLY)	ABH, Sargent
Pocket Door Locks	Accurate (ACC)	As pre-approved
Door Closers	LCN (LCN)	Sargent
Electro-Hydraulic Automatic Operators	LCN (LCN)	Besam, Norton, Horton
Door Trim	Ives (IVE)	Burns, Rockwood
Protection Plates	InPro Corporation (IPC)	Acrovyn, Boston Bumper
Overhead Stops	Glynn-Johnson (GLY)	Rixson, Sargent
Electric Strikes	Von Duprin (VON)	HES, Folger Adam
Magnetic Locks - Movement Exit Delay System	Schlage Locknetics	Folger Adam, Securitron, Security Door Controls
Computer Managed Locks	Schlage (SCH)	Alarm Lock, Best, Sargent
Stops & Holders	Ives (IVE)	Burns, Rockwood
Thresholds & Weatherstrip	National Guard (NGP)	Reese, Zero
Silencers	Ives (IVE)	Burns, Rockwood
Magnetic Holders	LCN (LCN)	Rixson, Sargent
Latch Protector	Ives (IVE)	Burns, Rockwood
Cylinders & Keying	Schlage (SCH)	Best, Sargent
Key Cabinets	Telkee (TEL)	HPC, Lund

- C. Hand of Door: Drawings show direction of slide, swing, or hand of each door leaf. Furnish each item of hardware for proper installation and operation of door movement as shown.
- D. Where the hardware specified is not adaptable to the finished shape or size of the members requiring hardware, furnish suitable types having the same operation and quality as the type specified, subject to the Architect's approval.

2.02 MATERIALS

A. Fasteners

1. Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation.
2. Furnish screws for installation with each hardware item. Finish exposed (exposed under any condition) screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work as closely as possible including "prepared for paint" surfaces to receive painted finish.

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 7 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

3. Provide concealed fasteners for hardware units that are exposed when door is closed except to the extent that no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless their use is the only means of reinforcing the work adequately to fasten the hardware securely. Review door specification and advise Architect if thru-bolts are required.
4. Hardware shall be installed with the fasteners provided by the hardware manufacturer.

B. Hinges

1. Provide five-knuckle, ball bearing hinges of type, material, and height as outlined in the following guide for this specification:
 - a. 1-3/4 inch thick doors, up to and including 36 inches wide:
Exterior: standard weight, bronze/stainless steel, 4-1/2 inches high
Interior: standard weight, steel, 4-1/2 inches high
 - b. 1-3/4 inch thick doors over 36 inches wide:
Exterior: heavy weight, bronze/stainless steel, 5 inches high
Interior: heavy weight, steel, 5 inches high
 - c. 2 inches or thicker doors:
Exterior: heavy weight, bronze/stainless steel, 5 inches high
Interior: heavy weight, steel, 5 inches high
2. Provide three hinges per door leaf for doors 90 inches or less in height, and one additional hinge for each 30 inches of additional door height.
3. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
 - a. Steel Hinges: Steel pins
 - b. Non-Ferrous Hinges: Stainless steel pins
 - c. Out-Swinging Exterior Doors: Non-removable pins
 - d. Out-Swinging Interior Lockable Doors: Non-removable pins
 - e. Interior Non-lockable Doors: Non-rising pins
4. The width of hinges shall be 4-1/2 inches at 1-3/4 inch thick doors, and 5 inches at 2 inches or thicker doors. Adjust hinge width as required for door, frame, and/or wall conditions to allow proper degree of opening.
5. Provide mortar guard for each electrified hinge specified, unless specified in hollow metal frame specification.
6. Acceptable manufacturers and/or products: Ives 5BB series, Hager BB series, McKinney TA/T4A series, Stanley FBB Series.

C. Continuous Hinges – Stainless Steel Continuous Hinges

1. Provide continuous hinges, where specified in the hardware sets, fabricated from 14 gauge, 304 stainless steel, with .25 inch diameter stainless steel hinge pin.

2. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
3. Hinges shall be capable of supporting door weights up to 600 pounds, and shall be successfully tested for 1,500,000 cycles.
4. On fire-rated doors, provide continuous hinges that are classified for use on rated doors by a testing agency acceptable to the authority having jurisdiction.
5. Provide continuous hinges with electrified option where specified. Provide with sufficient number and gage of concealed wires to accommodate electric function of specified hardware.
6. Install hinges with fasteners supplied by manufacturer. Hole pattern shall be symmetrically patterned.
7. Acceptable manufacturers and/or products: Ives, Markar, McKinney, Stanley.

D. Continuous Hinges - Aluminum

1. Provide continuous hinges, where specified in the hardware sets, fabricated from 6063-T5 aluminum, with .25 inch diameter Teflon coated stainless steel hinge pin.
2. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
3. Hinges shall be capable of supporting door weights up to 600 pounds, and shall be successfully tested for 1,500,000 cycles.
4. On fire-rated doors, provide continuous hinges that are classified for use on rated doors by a testing agency acceptable to the authority having jurisdiction.
5. Provide continuous hinges with electrified option where specified. Provide with sufficient number and gage of concealed wires to accommodate electric function of specified hardware.
6. Install hinges with fasteners supplied by manufacturer. Hole pattern shall be symmetrically patterned.
7. Acceptable manufacturers and/or products: Ives, Markar, McKinney, Stanley.

E. Electric Power Transfer

1. Provide power transfer sufficient for number and gage of wires to accommodate electric function of specified hardware.
2. Electric power transfer is to be located per manufacturer's template and UL requirements, unless interference with operation of door or other hardware items.

3. Acceptable manufacturers and/or products: Von Duprin, Dor-O-Matic, Markar.

F. Emergency Release Pivots

1. Provide emergency release pivot sets offset-hung to allow door to swing open in opposite direction unless detailed otherwise.

2. Acceptable manufacturers and/or products: Ives, Hager, Mckinney, Rixson, Stanley.

G. Double Lipped Strike

1. Provide double lip strike offset-hung to allow door to swing open in opposite direction unless detailed otherwise. Size for specific frame depth. Coordinate special latchbolt-hole location and/or special template, as required, to operate with the mortise lock being used as specified.

2. Provide a compatible emergency stop/release as recommended by the manufacturer of the double lip strike or engineered to operate with the double lip strike.

3. Acceptable manufacturers and/or products: Don-Jo, Hager, McKinne, Stanley.

Comment: Custom strike or special template to align with mortise lock latchbolt vs. standard strike template.

H. Emergency Stop/Release

1. Provide emergency stop/release for doors with double lip strikes offset-hung to allow door to swing open in opposite direction unless detailed otherwise.

2. Acceptable manufacturers and/or products: Stanley, Hager, McKinney.

I. Flush Bolts

1. Provide automatic and manual flush bolts with forged bronze face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch steel or brass rods at doors up to 90 inches in height. Top rods at manual flush bolts for doors over 90 inches in height shall be increased by 6 inches for each additional 6 inches of door height. Provide dust-proof strikes at each bottom flush bolt.

2. Acceptable manufacturers and/or products: Ives, Burns, Rockwood.

J. Coordinators

1. Provide a bar-type coordinating device, surface applied to the underside of the stop at the frame head where pairs of doors are equipped with automatic flush bolts, an astragal, or other hardware that requires synchronized closing of the doors.

2. Provide a filler bar of the correct length for the unit to span the entire width of the opening, and appropriate brackets for parallel arm door closers and surface vertical rod exit device strikes. Factory-prep coordinators for vertical rod devices if required.

3. Acceptable manufacturers and/or products: Ives, Burns, Rockwood.

K. Mortise Locks

1. Provide mortise locks certified as ANSI A156.13, Grade 1 Operational, Grade 1 Security, and manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance. Lock case shall be multi-function and field reversible for handing without opening the case. Cylinders: Refer to 2.04 KEYING.
2. Provide locks with a standard 2-3/4 inches backset with a full 3/4 inch throw stainless steel mechanical anti-friction latchbolt. Deadbolt shall be a full 1 inch throw, constructed of stainless steel.
3. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
4. Provide electrical options as scheduled. Provide electrified locksets with micro switch (RX) option that monitors the retractor crank, and is actuated when rotation of the inside or outside lever rotates the retractor hub. Provide normally closed contacts or normally open contacts as required by security system.
5. Lever trim shall be solid brass, bronze, or stainless steel, cast or forged in the design specified, with wrought roses and external lever spring cages. Levers shall be thru-bolted to assure proper alignment, and shall have a 2-piece spindle.
 - a. Lever design shall be Schlage 03
 - b. Lever trim on the secure side of doors serving rooms considered by the authority having jurisdiction to be hazardous shall have a tactile warning.
6. Acceptable manufacturers and/or products: Schlage L9000 series, Best 45H series, Sargent 8200 series.

L. Hospital Latches

1. Provide hospital latches conforming to ANSI A156 with covers engraved "Push" and "Pull".
2. Provide hospital latches with a standard 5 inches backset, unless noted otherwise, with a 1/2 inch latch throw. Provide proper latch throw for UL listing at pairs.
3. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
4. Trim shall be push paddle mounted up and pull paddle mounted down except at psychiatric or security areas provide both paddles mounted down for safety, unless noted otherwise.
5. Acceptable manufacturers and/or products: Glynn-Johnson HL6E series, ABH 6000 series, Sargent 114P/115P series.

M. Pocket Doors Locks Pocket Door Locks

1. Provide mortise pocket door lock series and function as specified. Cylinders: Refer to 2.04 KEYING.

2. Provide mortise pocket door lock with a standard 2-3/4 inches backset.
3. Provide manufacturers standard strike.
4. Acceptable manufacturers and/or products: Accurate 2002 Series, as pre-approved.

N. Aluminum Door Locks - Narrow Style

1. Provide narrow style aluminum door locks as specified. Cylinders: Refer to 2.04 KEYING.
2. Provide locks with a 1-1/8 inches, or 1-1/2 inches backset as required for door detail with a full 5/8" throw latchbolt.
3. Provide manufacturers standard strikes unless extended lip strikes are necessary to protect trim.
4. Acceptable manufacturers and/or products: Adams Rite 4900 series X 4568/9 Lever or 4590/1 Paddle, as pre-approved.

O. Deadlocks

1. Provide mortise deadlock series conforming to ANSI A156 and function as specified. Cylinders: Refer to 2.04 KEYING.
2. Provide deadlocks with a standard 2-3/4 inches backset. Deadbolt shall be a full 1 inch throw, constructed of stainless steel.
3. Provide manufacturers standard strike.
4. Acceptable manufacturers and/or products: Schlage L400 series, Best 38H series, Sargent 4870 series.

P. Exit Devices

1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1, and UL listed for Panic Exit and/or Fire Exit Hardware. Cylinders: Refer to 2.04 KEYING.
2. Exit devices shall be touchpad type, fabricated of brass, bronze, stainless steel, or aluminum, plated to the standard architectural finishes to match the balance of the door hardware.
3. Touchpad shall extend a minimum of one half of the door width. Touch-pad finish shall be compatible to exit device finish. Compression springs will be used in devices, latches, and outside trims or controls, tension springs also acceptable.
4. Devices to incorporate a deadlatching feature for security and/or for future addition of alarm kits and/or other electrical requirements.
5. Provide manufacturer's standard strikes.

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 12 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

6. Provide exit devices cut to door width and height. Locate exit devices at a height recommended by the exit device manufacturer, allowable by governing building codes, and approved by the Architect.
7. Mechanism case shall sit flush on the face of all flush doors, or spacers shall be furnished to fill gaps behind devices. Where glass trim or molding projects off the face of the door, provide glass bead kits.
8. Non-fire-rated exit devices shall have cylinder dogging.
9. Removable mullions shall be a 2 inches x 3 inches steel tube. Where scheduled, mullion shall be of a type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
10. Where lever handles are specified as outside trim for exit devices, provide heavy-duty lever trims with forged or cast escutcheon plates. Provide vandal-resistant levers that will travel to a 90-degree down position when more than 35 pounds of torque are applied, and which can easily be re-set.
 - a. Lever style will match the lever style of the locksets.
 - b. Lever trim on doors serving rooms considered by the authority having jurisdiction to be hazardous shall have a tactile warning.
11. Exit devices for fire rated openings shall be UL labeled fire exit hardware.
12. Provide electrical options as scheduled.
13. Acceptable manufacturers and/or products: Monarch 17/18 series with deadlatching, Precision Apex series, Sargent 80 series with deadlatching, Von Duprin 99/33 series.

Q. Computer Managed Locks - Mortise Type

1. Provide computer managed mortise locks certified as ANSI A156.13, Grade 1 Operational and manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance. Where cylinder override is provided, provide audit trail key feature for mechanical key usage to be signaled and recorded into the audit event database. Cylinders: Refer to 2.04 KEYING.
2. Provide locks with a standard 2-3/4 inches backset with a full 3/4 inch throw stainless steel mechanical anti-friction latchbolt.
3. Provide manufacturers standard strikes.
4. Lever trim shall be **solid** brass, bronze, or stainless steel, cast or forged in the design specified, with clutch mechanism to deter vandalism and maximize durability. Levers shall be thru-bolted to assure proper alignment, and shall have a 2-piece spindle.
 - a. Lever design shall be Schlage **17**.

Mercy Health System of Maine
 Fore River Short Stay Hospital, Portland, Maine
 FCFH # F05-4898

Door Hardware
 Section 08710
 page 13 of 62
 November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

- b. Lever trim on the secure side of doors serving rooms considered by the authority having jurisdiction to be hazardous shall have a tactile warning.
- 5. Provide access control products with non-volatile memory and capable of future product upgrades with programmable firmware without having to swap out components.
- 6. Provide products offering credential of Keycodes, Proximity, ABA Track (2 or 3), iButton with a minimum of 1,000 users and provide audit trail for the last 1,000 events.
- 7. Provide Windows based software that programs the lock, with PC cable, interface module, programming device and cable. Provide locks with 16 time zones, 16 time schedules, 32 holidays, first person in feature, and credential expiration, and credential activation.
- 8. Provide remote release kit that permits release of the lock by a remote switch hard wired back to the lock.
- 9. Provide LED's on unit to indicate activation, operational systems status, systems error conditions, and low power conditions.
- 10. Provide weatherseal gasketing at exterior applications.
- 11. Credentials: Locks to operate using existing facility cards used at hardwired openings.
- 12. Acceptable manufacturers and/or products: Schlage CM series, Alarm Lock PDL3500 series, Best BASIS V series, Sargent Profile series.

R. Door Closers

- 1. Provide door closers certified to ANSI/BHMA A156.4 Grade 1 requirements by a BHMA certified independent testing laboratory. Closers shall be ISO 9000 certified. Units shall be stamped with date of manufacture code.
- 2. Door closers shall have fully hydraulic, full rack and pinion action with a high strength cast iron cylinder and metal cover, and shall utilize full complement bearings at shaft. Cylinder body shall be 1-1/2 inch diameter, and double heat-treated pinion shall be 11/16 inch diameter.
- 3. Provide hydraulic fluid requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F. Fluid shall be fireproof and shall pass the requirements of the UL10C "positive pressure" fire test.
- 4. Spring power shall be continuously adjustable over the full range of closer sizes, and allow for reduced opening force as required by accessibility codes and standards. Hydraulic regulation shall be by tamper-proof, non-critical valves. Closers shall have separate adjustment for latch speed, general speed, and backcheck.

5. Provide closers with a solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
 6. Closers shall not incorporate Pressure Relief Valve (PRV) technology.
 7. Closer cylinders, arms, adapter plates, and metal covers shall have a powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or shall have special rust inhibitor (SRI).
 8. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other finish hardware items interfering with closer mounting.
 9. Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Closers shall not be visible in corridors, lobbies and other public spaces unless approved by Architect.
 10. Door closers meeting this specification: LCN 4010/4110 series, Sargent 281/281P10 series factory assembled (without PRV).
- S. Electro-Hydraulic Automatic Operators
1. Provide low energy automatic operator units with hydraulic closer complying with ANSI A156.19 where automatic operators are specified.
 2. Provide hydraulic fluid of a type requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F. Fluid shall be fireproof and shall pass the requirements of the UL10C "positive pressure" fire test.
 3. Provide units with conventional door closer opening and closing forces unless the power operator motor is activated. Provide door closer assembly with adjustable spring size, back-check, and opening and closing speed adjustment valves to control door
 4. Provide units with on/off switch for manual operation, motor start up delay, vestibule interface delay, electric lock delay, and door hold open delay.
 5. Provide units with conventional door closer opening and closing forces unless the power operator motor is activated. Provide door closer assembly with adjustable spring size, back-check valve, sweep valve, latch valve to control door.
 6. Provide drop plates, brackets, or adapters for arms as required for details.
 7. Provide hard-wired actuator switches for operation as specified. Actuators shall be weather-resistant type at exterior applications.
 8. Provide key switches, with LED's, recommended and approved by the manufacturer of the automatic operator as required for the function as described in the operation description of the hardware group with the provisions below. Cylinders: Refer to 2.04 KEYING.

9. Where automatic operators are scheduled, provide complete assemblies of controls, switches, power supplies, relays, and parts/material recommended and approved by the manufacturer of the automatic operator for each individual leaf. Actuators shall control both doors simultaneously at pairs. Exterior and vestibule doors with automatic operators shall be sequenced to allow ingress or egress through both sets of openings as directed by the Architect. Locate the actuators, key switches, and other controls as directed by the Architect.
 10. Provide units with vestibule inputs, which allow sequencing operation of two units, and a SPDT relay for interfacing with latching or locking devices.
 11. Acceptable manufacturers and/or products: LCN 4600 series, Norton 6900 series, Besam Power Swing, Horton 4000LE.
- T. Electric Strikes
1. Provide electric strikes designed for use with the type locks shown at each opening.
 2. Provide electric strikes UL Listed as burglary-resistant electric door strikes and where required shall be UL Listed as electric strikes for fire doors and frames. Provide fail-secure type electric strikes, unless specified otherwise.
 3. Provide transformers and rectifiers for each strike as required. Verify voltage with electrical contractor.
 4. Acceptable manufacturers and/or products: Von Duprin 6000 series, Folger Adam 300 series, HES 1006 series.
- U. Delayed Movement Electro-Magnet – Movement Exit Delay System
1. Provide movement exit delay systems complete with initiation device, magnetic lock, alarm, authorized reset/momentary release device, logic timer, and alarm output contacts.
 2. Provide movement exit delay system that meets NFPA 101 Life Safety Code governing delayed egress, and/or other local and national fire codes acceptable to the authority having jurisdiction as required.
 3. Provide magnetic locks conforming to ANSI/BHMA A156.23 classification criteria including a minimum holding force of 1500 LBF.
 4. Provide magnetic locks equipped with a SPDT Magnetic Bond Sensing device to monitor whether sufficient magnetic holding force exists to ensure adequate locking and SPDT Door Status Monitor device to monitor whether the door is open or closed. The bond sensors shall be fully concealed within the electromagnet to resist tampering or damage.
 5. Provide tamper proof fasteners, mounting brackets, and spacer bars required for mounting and details.

6. Provide a power supply recommended and approved by the manufacturer of the delayed egress magnetic locks.
7. Where exit delay systems are scheduled, provide complete assemblies of controls, switches, power supplies, relays, and parts/material recommended and approved by the manufacturer of the exit delay system for each individual leaf. Switches shall control both doors simultaneously at pairs. Locate controls as directed by the Architect. Cylinders: Refer to 2.04 KEYING.
8. Acceptable manufacturers and/or products: Schlage Locknetics 390DEL DSM/MBS/SEC/ATS series, Dynalock 3101B DSM/DYNST/ATS, Security Door Controls 1500 DPS/BA/ATS series.

V. Magnetic Holders

1. Provide wall or floor mounted electromagnetic door release as specified with a minimum of 25 pounds of holding force. Projection of holder and armature must be coordinated with other hardware and wall conditions to ensure that door sits parallel to wall when fully open. Where magnetic holders are used on fire-rated doors, they must be wired into the fire control panel for fail-safe operation.
2. Acceptable manufacturers and/or products: LCN, Rixson, Sargent.

W. Door Trim

1. Provide push plates 4 inches wide x 16 inches high x 0.050 inch thick and beveled 4 edges. Where width of door stile prevents use of 4 inches wide plate, adjust width to fit.
2. Provide push bars of solid bar stock, diameter and length as scheduled. Push bars shall be of sufficient length to span from center to center of each stile. Where required, mount back to back with pull.
3. Provide offset pulls of solid bar stock, diameter and length as scheduled. Where required, mount back to back with push bar.
4. Provide flush pulls as specified. Where required, provide back-to-back mounted model.
5. Provide pulls of solid bar stock, diameter and length as scheduled. Where required, mount back to back with push bar.
6. Provide pull plates 4 inches wide x 16 inches high x 0.050 inch thick, beveled 4 edges, and prepped for pull. Where width of door stile prevents use of 4 inches wide plate, adjust width to fit.
7. Provide wire pulls of solid bar stock, diameter and length as scheduled.
8. Acceptable manufacturers and/or products: Ives, Burns, Rockwood.

X. Protection Plates

1. Provide kick plates, mop plates, and armor plates minimum of 0.060 inch thick rigid vinyl and beveled 4 edges as scheduled. Furnish with Factory Applied Self-stick Adhesive. Color to be selected by architect from manufacturer's standard colors. Sizes of plates shall be as follows:
 - a. Kick Plates – 10 inches high x 2 inches less width of door on single doors, 1 inch less width of door on pairs
 - b. Mop Plates – 6 inches high x 2 inches less width of door on single doors, 1 inch less width of door on pairs
 - c. Armor Plates – 36 inches high x 2 inches less width of door on single doors, 1 inch less width of door on pairs
 - d. Where edge guards and plates (Kick, Mop or Armor) are used together they shall butt together with no gaps between. Width of plates may need to be different than listed above (a-c) so that they do not overlap edge guards.
2. Acceptable manufacturers and/or products: IPC (InPro Corporation), Acrovyn, Boston Bumper

Y. Overhead Stops and Overhead Stop/holders

1. Provide heavy duty mounted overhead stop or overhead stop/holder as specified for exterior and interior vestibule single acting doors.
2. Provide heavy or medium duty and concealed or surface mounted overhead stop or overhead stop/holder for interior doors as specified. Provide medium duty surface mounted overhead stop for interior doors and at any door that swings more than 140 degrees before striking a wall, open against equipment, casework, sidelights, and/or where conditions do not allow a wall stop or a floor stop presents a tripping hazard.
3. Where overhead holders are specified provide friction type at doors without a closer and positive type at doors with a closer.
4. Acceptable manufacturers and/or products: Glynn-Johnson, Rixson, Sargent.

Z. Door Stops and Holders

1. Provide door stops for all doors in accordance with the following requirements:
 - a. Provide wall stops wherever possible. Provide convex type where mortise type locks are used and concave type where cylindrical type locks are used.
 - b. Where wall stops cannot be used, provide dome type floor stops of the proper height.
 - c. At any opening where a wall or floor stop cannot be used, a medium duty surface mounted overhead stop shall be used.
2. Acceptable manufacturers and/or products: Ives, Burns, Rockwood.

AA. Thresholds, Seals, Door Sweeps, Automatic Door Bottoms, and Gasketing

1. Provide thresholds, weatherstripping (including door sweeps, seals, astragals) and gasketing systems (including smoke, sound, and light) as specified and per architectural details. Match finish of other items as closely as possible. Size of thresholds shall be as follows:
 - a. Saddle Thresholds – 1/4 inch high x jamb width x door width
 - b. Bumper Seal Thresholds – 1/2 inch high x 5 inches wide x door width
2. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.
3. Acceptable manufacturers and/or products: National Guard, Reese, Zero.

BB. Silencers

1. Provide "Push-in" type silencers for each hollow metal or wood frame. Provide three for each single frame and two for each pair frame. Omit where gasketing is specified or required by code.
2. Acceptable manufacturers and/or products: Ives, Burns, Rockwood.

CC. Door Position Switches

1. Provide recessed or surface mounted type door position switches as specified.
2. Switches shall be installed as recommended by manufacturers installation instructions and coordinated with other hardware being installed on the opening. Coordinate door and frame preparations with door and frame suppliers. If separate switches are being used with a magnetic locking device provide a minimum of 4 inches between the switch and the magnetic locking device.
3. Acceptable manufacturers and/or products: Schlage Locknetics, GE-Interlogix, Sargent.

DD. Latch Protectors

1. Provide latch protectors of type required to function with the specified lock.
2. Acceptable manufacturers and/or products: Ives, Burns, Rockwood.

2.03 FINISHES

A. Finish of all hardware shall be US26D (BHMA 626/652) with the exceptions as follows:

1. Hinges at Exterior Doors: US32D (BHMA 630).
2. Push Plates, Pulls, and Push Bars: US32D (BHMA 630).

3. Protection Plates: US32D (BHMA 630).
4. Overhead Stops and Holders: US32D (BHMA 630).
5. Door Closers: Powder Coat to Match.
6. Wall Stops: US32D (BHMA 630).
7. Latch Protectors: US32D (BHMA 630).
8. Weatherstripping: Clear Anodized Aluminum.
9. Thresholds: Mill Finish Aluminum.

2.04 KEYING

- A. Provide a new key system from the same manufacturer as the locks conforming to the following requirements:
 1. Provide patented removable core cylinders at all keyed devices. Patent shall protect against the unauthorized manufacturing and duplication of the products. Patented cores shall not be operable by non-patented key blanks. Patented cores shall incorporate a mechanism to check for the patented features on the keys. Provide construction cores with construction master keying for use during construction. The hardware supplier, accompanied by the Owner or Owner's security agent, shall install permanent keyed cores upon completion of the project. The temporary construction cores are to be returned to the hardware supplier.
 2. Provide permanent cores and cylinders keyed by the manufacturer or authorized distributor as directed by the Owner. Provide owner with a copy of the bitting list, return receipt requested.
 3. The hardware supplier, accompanied by a qualified factory representative for the manufacturer of the cores and cylinders, shall meet with Owner and Architect to review keying requirements and lock functions prior to ordering finish hardware. Submit a keying schedule to Architect for approval.
 4. Provide cores and cylinders, unless noted otherwise, operated by a Great Grand Master Key System to be established for this project. Allow for ten Grand Master Keys under the Great Grand. Do not use the letter "I", "O", or "X" for any of the grand masters. Allow for twenty-four Master Keys under each Grand Master, and sixty-four changes under each master key. All cylinders shall be keyed in alike or different sets as noted by their respective key set number. Do not use the letter "I" or "O" in any of the master key sets.
 5. Provide cores and cylinders, unless noted otherwise, operated by a Grand Master Key System to be established for this project (Do not use the letter "I", "O", or "X" for any of the grand masters). Allow for twenty-four Master Keys under each Grand Master, and sixty-four changes under each master key. All cylinders shall be keyed in alike or different sets as noted

by their respective key set number. Do not use the letter "I" or "O" in any of the master key sets.

6. Provide patented keys as follows:
 - a. Ten grand master keys for each set.
 - b. Ten master keys for each set.
 - c. Three keys per core.
 - d. Two construction core control keys
 - e. Two permanent core control keys
 - f. Six construction master keys for each type (Contractor is to provide one set of construction keys to Architect)
7. Visual key control:
 - a. Keys shall be stamped with their respective key set number and stamped "DO NOT DUPLICATE".
 - b. Grand master and master keys shall be stamped with their respective key set letters.
 - c. Do not stamp any keys with the factory key change number.
 - d. Do not stamp any cores with key set on face (front) of Core. Stamp on back or side of cores so not to be visible when core is in cylinder.
8. Deliver grand master keys, master keys, change keys, and/or key blanks from the factory or authorized distributor directly to the Owner in sealed containers, return receipt requested. Failure to comply with these requirements may be cause to require replacement of all or any part of the keying system that was compromised at no additional cost to the Owner.
9. Approved products: Schlage Everest C, Best Peaks, Sargent XC

2.05 KEY CONTROL SYSTEM

- A. Provide a key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of the number of locks required for the Project.
 1. Provide complete cross index system set up by the hardware supplier, and place keys on markers and hooks in the cabinet as determined by the final key schedule.
 2. Provide hinged-panel type cabinet for wall mounting.
 3. Approved products: Telkee, HPC, Lund.

PART 3 - EXECUTION

3.01 EXAMINATION

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 21 of 62
November 10, 2006
FINAL ISSUED FOR CONSTRUCTION

- A. Prior to installation of any hardware, examine all doors, frames, walls and related items for conditions that would prevent proper installation of finish hardware. Correct all defects prior to proceeding with installation.

3.02 INSTALLATION

- A. Coordination:
 - 1. Prior to installation of hardware, schedule and hold a meeting for the purpose of instructing installers on proper installation and adjustment of finish hardware. Representatives of locks, exit devices, closers, automatic operators, and electrified hardware shall conduct training; provide at least 10 days notice to representatives. After training a letter of compliance, indicating when the training was held and who was in attendance, shall be sent to the Architect.
 - 2. Prior to ordering electrified hardware, schedule and hold a meeting for the purpose of coordinating finish hardware with security, electrical, doors and frames, and other related suppliers. A representative of the supplier of finish hardware, and doors and frames, the electrical subcontractor, and the Owner's security contractor shall meet with the Owner, Architect, and General Contractor prior to ordering finish hardware. After meeting a letter of compliance, indicating when the training was held and who was in attendance, shall be sent to the Architect.
- B. Hardware will be installed by qualified tradesmen, skilled in the application of commercial grade hardware. For technical assistance if necessary, installers may contact the manufacturer's rep for the item in question, as listed in the hardware schedule.
- C. Mount hardware units at heights indicated in "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute.
- D. Install each hardware item in compliance with the manufacturer's instructions and recommendations, using only the fasteners provided by the manufacturer.
- E. Do not install surface mounted items until finishes have been completed on the substrate. Protect all installed hardware during painting.
- F. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- G. Operating parts shall move freely and smoothly without binding, sticking, or excessive clearance.
- H. Wire (including low voltage), conduit, junction boxes, and pulling of wire is by Division 16, Electrical. Electrical Contractor shall connect wire to door position switches and run wire to central room or area as directed by the Architect. Wires shall be tested and labeled with the Architects opening number. Connections to/from power supplies to electrified hardware and any connection to fire/smoke alarm system, and/or smoke evacuation system where specified is by Division 16 Electrical.

3.03 ADJUSTING, CLEANING, AND DEMONSTRATING

- A. Adjust and check each operating item of hardware and each door, to insure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly.
- B. Where door hardware is installed more than one month prior to acceptance or occupancy of a space or area, return to the installation during the week prior to acceptance or occupancy and make a final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.
- C. Clean adjacent surfaces soiled by hardware installation.
- D. Instruct Owner's personnel in the proper adjustment, lubrication, and maintenance of door hardware and hardware finishes.

3.04 FIELD QUALITY CONTROL

- A. Prior to Substantial Completion, the installer, accompanied by representatives of the manufacturers of locks, exit devices, closer, and any electrified hardware, shall perform the following work:
 - 1. Examine and re-adjust each item of door hardware as necessary to restore function of doors and hardware to comply with specified requirements.
 - 2. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures.
 - 3. Replace hardware items that have deteriorated or failed due to faulty design, materials, or installation of hardware units.
 - 4. Prepare a written report of current and predictable problems of substantial nature in the performance of the hardware.
 - 5. At completion of project, a qualified factory representative for the manufacturers of locksets, closer, exit devices, and access control products shall arrange and hold a training session to instruct the Owner's personnel on the proper maintenance, adjustment, and/or operation of their respective products. After training a letter of compliance, indicating when the training was held and who was in attendance, shall be sent to the Architect.

3.05 PROTECTION

- A. Provide for the proper protection of complete items of hardware until the Owner accepts the project as complete. Damaged or disfigured hardware shall be replaced or repaired by the responsible party.

3.06 HARDWARE SCHEDULE

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 23 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

- A. Provide hardware for each door to comply with requirements of Section "Finish Hardware," hardware set numbers indicated in door schedule, and in the following schedule of hardware sets.
- B. It is intended that the following schedule includes complete items of finish hardware necessary to complete the work. If a discrepancy is found in the schedule, such as a missing item, improper hardware for a frame, door or fire codes, the preamble will be the deciding document.
- C. Locksets, exit devices, and other hardware items are referenced in the Hardware Sets for series, type, and function. Refer to the preamble for special features, options, cylinders/keying, and other requirements.
- D. Hardware Sets

SPECWORKS # 39692-05- 925096

HW SET: AL-03 SLIDER

DOOR NUMBER:
1001

EACH TO HAVE:

1	EA	CYLINDER	RIM/MORTISE AS REQUIRED	SCH
1			BALANCE OF HARDWARE BY SLIDING DOOR MFG.	

HW SET: AL-04

DOOR NUMBER:
1017

EACH TO HAVE:

6	EA	HINGE	5BB1 4.5 X 4.5	IVE
2	EA	MANUAL FLUSH BOLT	FB458	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	LOCKSET	MS1851SW-4550	ADA
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
2	EA	PULL/PUSHBAR	9190-2-NO	IVE
2	EA	SURFACE CLOSER	4011 H	LCN
1	SET	WEATHERSTRIP	BY ALUMINUM DOOR & FRAME MFG.	

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 24 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

HW SET: AL-05

DOOR NUMBER:
2017

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	IVE
1	EA	LOCKSET	MS1851SW-4550	ADA
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	PULL/PUSHBAR	9190-2-NO	IVE
1	EA	SURFACE CLOSER	4011 H	LCN
1	SET	WEATHERSTRIP	BY ALUMINUM DOOR & FRAME MFG.	

HW SET: AL-06 ISOLATION/ACU

DOOR NUMBER:
2021AA 2021CA 2021F

EACH TO HAVE:

1	EA	CYLINDER	RIM/MORTISE AS REQUIRED	SCH
1			BALANCE OF HARDWARE BY SLIDING DOOR MFG.	

HW SET: AL-08 SLIDER

DOOR NUMBER:
1001A

EACH TO HAVE:

1	EA	CYLINDER	RIM/MORTISE AS REQUIRED	SCH
1			BALANCE OF HARDWARE BY SLIDING DOOR MFG.	
1	EA	CARD READER	BY SECURITY INTEGRATION PROVIDER	
2	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

CARD READER NEEDS TO BE INTERGRATED WITH ALUMINUM SLIDER SPECIFIED IN SEPERATE SECTION

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 25 of 62
November 10, 2006
FINAL ISSUED FOR CONSTRUCTION

HW SET: HW-01 EXTERIOR

DOOR NUMBER:
1ST02B

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	700 X DOOR HEIGHT	IVE
1	EA	FIRE EXIT HARDWARE	99NL	VON
1	EA	CYLINDER	RIM AS REQUIRED	SCH
1	EA	SURFACE CLOSER	4111 SCUSH	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	SET	SEALS	A626A HEAD AND JAMBS	NGP
1	EA	DOOR SWEEP	101VA	NGP
1	EA	DRIP CAP	16A	NGP
1	EA	THRESHOLD	426	NGP
3	EA	SILENCER	SR64	IVE
1	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

HW SET: HW-02 EXTERIOR

DOOR NUMBER:
G040D

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
2	EA	MANUAL FLUSH BOLT	FB458	IVE
1	EA	DUST PROOF STRIKE	DP1	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1			ASTRAGAL BY DOOR MFG	
2	EA	SURFACE CLOSER	4111 SHCUSH	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 415 SERIES (L SHAPED) X 36" HEIGHT	IPC
1	SET	SEALS	A626A HEAD AND JAMBS	NGP
2	EA	DOOR SWEEP	101VA	NGP
1	EA	DRIP CAP	16A	NGP
1	EA	THRESHOLD	426	NGP
2	EA	SILENCER	SR64	IVE

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 26 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

HW SET: HW-03 EXTEROR

DOOR NUMBER:

G042 GE02B

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	700 X DOOR HEIGHT	IVE
1	SET	AUTO FLUSH BOLT	FB31P	IVE
1	EA	DUST PROOF STRIKE	DP1	IVE
1	EA	PANIC HARDWARE	CD9975NL	VON
2	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1			ASTRAGAL BY DOOR MFG	
2	EA	SURFACE CLOSER	4111 SHCUSH	LCN
2	EA	KICK PLATE	10" X 2" LDW	IPC
1	SET	SEALS	A626A HEAD AND JAMBS	NGP
2	EA	DOOR SWEEP	101VA	NGP
1	EA	DRIP CAP	16A	NGP
1	EA	THRESHOLD	426	NGP
1	EA	COORDINATOR	COR X FL AS REQUIRED	IVE
2	EA	SILENCER	SR64	IVE

HW SET: HW-04 EXTERIOR

DOOR NUMBER:

3110 G040a GM04A GM04B GX070A R002
RST01

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	700 X DOOR HEIGHT	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1	EA	SURFACE CLOSER	4111 SHCUSH	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	SET	SEALS	A626A HEAD AND JAMBS	NGP
1	EA	DOOR SWEEP	101VA	NGP
1	EA	DRIP CAP	16A	NGP
1	EA	THRESHOLD	426	NGP
3	EA	SILENCER	SR64	IVE
1	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 27 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

HW SET: HW-05 EXTERIOR

DOOR NUMBER:
GX045

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
2	EA	PANIC HARDWARE	CD9927EO	VON
2	EA	PANIC HARDWARE	CD9927L 996L-NL	VON
2	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	CYLINDER	RIM AS REQUIRED	SCH
2	EA	SURFACE CLOSER	4111 SHCUSH	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 415 SERIES (L SHAPED) X 36" HEIGHT	IPC
1	SET	SEALS	A626A HEAD AND JAMBS	NGP
2	EA	DOOR SWEEP	101VA	NGP
2	EA	DRIP CAP	16A	NGP
1	EA	THRESHOLD	426	NGP
2	EA	SILENCER	SR64	IVE
2	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

HW SET: HW-06 EXTERIOR

DOOR NUMBER:
1X040A GST01

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	700 X DOOR HEIGHT	IVE
1	EA	FIRE EXIT HARDWARE	99NL-F	VON
1	EA	CYLINDER	RIM AS REQUIRED	SCH
1	EA	ELECTRIC STRIKE	6111 FSE 24VDC	VON
1	EA	SURFACE CLOSER	4111 SCUSH	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	A626A HEAD AND JAMBS	NGP
1	EA	DOOR SWEEP	101VA	NGP
1	EA	DRIP CAP	16A	NGP
1	EA	THRESHOLD	426	NGP
3	EA	SILENCER	SR64	IVE
1	EA	POWER SUPPLY	505-EIR	SCH
1	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

CARD READER SPECIFIED IN SEPERATE SECTION

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 28 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

HW SET: HW-07

DOOR NUMBER:
1X100B

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	700 X DOOR HEIGHT	IVE
1	EA	PANIC HARDWARE	CD3347A-EO	VON
1	EA	PANIC HARDWARE	CD3347A-L	VON
3	EA	CYLINDER	MORTISE AS REQUIRED	SCH
2	EA	SURFACE CLOSER	4111 SHCUSH	LCN
2	EA	KICK PLATE	10" X 2" LDW	IPC
2	EA	SILENCER	SR64	IVE

HW SET: HW-08 UNEQUAL

DOOR NUMBER:
G038

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	SET	AUTO FLUSH BOLT	FB31P	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1			ASTRAGAL BY DOOR MFG	
2	EA	SURFACE CLOSER	4011	LCN
2	EA	OVERHEAD STOP	900S	GLY
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 415 SERIES (L SHAPED) X 36" HEIGHT	IPC
2	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	5060 MEETING EDGE	NGP
1	EA	COORDINATOR	COR X FL AS REQUIRED	IVE

HW SET: HW-09

DOOR NUMBER:
1X100A

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	700 X DOOR HEIGHT	IVE
2	EA	FIRE EXIT HARDWARE	3347A-EO-F	VON
2	EA	SETRONIC CLOSER	2310ME (SPECIFY VOLTAGE)	LCN
2	EA	KICK PLATE	10" X 2" LDW	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 29 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

1 SET SEALS 5060 MEETING EDGE NGP

CONCEALED MAG HOLDERS ONLY

HW SET: HW-10

DOOR NUMBER:

1019 1024C 2001C 3012B 4010 4011
G004B G005A G016C G016E

EACH TO HAVE:

3 EA HINGE 5BB1 4.5 X 4.5 IVE
1 EA PASSAGE SET L9010 SCH
1 EA KICK PLATE 10" X 2" LDW IPC
1 EA STOP WS407CCV OR FS436/FS438 IVE
3 EA SILENCER SR64 IVE

HW SET: HW-11

DOOR NUMBER:

1ST01 1ST02A 4ST01 4ST02

EACH TO HAVE:

3 EA HINGE 5BB1HW 4.5 X 4.5 IVE
1 EA FIRE EXIT HARDWARE 99L-F-BE 996L VON
1 EA SURFACE CLOSER 4011 LCN
1 EA KICK PLATE 10" X 2" LDW IPC
1 EA STOP WS407CCV OR FS436/FS438 IVE
1 SET SEAL 5020 HEAD & JAMBS NGP

HW SET: HW-12

DOOR NUMBER:

1006 1072 3028 3040 3050 4028
4030 G015A

EACH TO HAVE:

3 EA HINGE, BALL BEARING 5BB1HW 4.5 X 4.5 IVE
1 EA STOREROOM LOCK L9080 SCH
1 EA SURFACE CLOSER 4011 LCN
1 EA KICK PLATE 10" X 2" LDW IPC
1 EA STOP WS407CCV OR FS436/FS438 IVE
1 SET SEAL 5020 HEAD & JAMBS NGP

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 30 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

HW SET: HW-13

DOOR NUMBER:
G019A

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1	EA	SURFACE CLOSER	4111 SCUSH	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-14

DOOR NUMBER:
1015A 1026 1060A G025

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1	EA	SURFACE CLOSER	4111 EDA	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-15 CONFERENCE

DOOR NUMBER:
3051 4004

EACH TO HAVE:

6	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	MANUAL FLUSH BOLT	FB358/FB458	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1			ASTRAGAL BY DOOR MFG	
2	EA	OVERHEAD HOLDER	900H	GLY
2	EA	KICK PLATE	10" X 2" LDW	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	EA	COORDINATOR	COR X FL AS REQUIRED	IVE
2	EA	SILENCER	SR64	IVE

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 31 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

HW SET: HW-19

DOOR NUMBER:

2009 2047 G016D

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5 NRP	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1	EA	SURFACE CLOSER	4111 EDA	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-20

DOOR NUMBER:

GM04D

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1	EA	SURFACE CLOSER	4011	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-21

DOOR NUMBER:

2038 G002 G030c G030D

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1	EA	SURFACE CLOSER	4011 H	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 33 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

HW SET: HW-22

DOOR NUMBER:

3027	3032	3034A	3034B	3034C	4002
4003	4027	4034	4037A	4037B	G032
G036					

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1	EA	SURFACE CLOSER	4011 DEL	LCN
1	EA	ARMOR PLATE	36" X 2" LDW	IPC
1	EA	MOP PLATE	6" X 2" LDW	IPC
1	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-23

DOOR NUMBER:

1023	2021H	2X050
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EACH TO HAVE:

1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1	EA	SURFACE CLOSER	4011	LCN
1	EA	ARMOR PLATE	36" X 2" LDW	IPC
1	EA	DOOR EDGE GUARD	EDGE GUARD 415 SERIES (L SHAPED) X 36" HEIGHT	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-24 UNEQUAL

DOOR NUMBER:

G001F	G008	G023	G028	G034	G035
G037					

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	SET	CONST LATCHING BOLT	FB51P	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1			ASTRAGAL BY DOOR MFG	
2	EA	SURFACE CLOSER	4011 DEL	LCN

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 34 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

2	EA	OVERHEAD STOP	900S	GLY
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	5060 MEETING EDGE	NGP
1	EA	COORDINATOR	COR X FL AS REQUIRED	IVE

HW SET: HW-25 UNEQUAL

DOOR NUMBER:

G001A G004

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	SET	CONST LATCHING BOLT	FB51P	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	ACCESS CONTROL LOCK	CM5596-PXK-17-ATK	SCE
1			ASTRAGAL BY DOOR MFG	
2	EA	SURFACE CLOSER	4011 DEL	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	5060 MEETING EDGE	NGP
1	EA	COORDINATOR	COR X FL AS REQUIRED	IVE

BATTERY POWERED PROXIMITY AND KEYPAD LOCKSET

HW SET: HW-26

DOOR NUMBER:

3011 3023 3024 3041 3045 3X120A
3X120B 4036 4047

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1	EA	SURFACE CLOSER	4011 H	LCN
1	EA	ARMOR PLATE	36" X 2" LDW	IPC
1	EA	MOP PLATE	6" X 2" LDW	IPC

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 35 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

1	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-27 LL UNEQUAL

DOOR NUMBER:
1061 1064 1065

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X LEAD LINED DOOR	IVE
1	EA	AUTO FLUSH BOLT	FB41T	IVE
1	EA	PUSH/PULL LATCH	HL6-L-9070-LFS	GLY
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	ASTRAGAL	139SS-LD	NGP
2	EA	SURFACE CLOSER	4011 DEL LL	LCN
2	EA	OVERHEAD HOLDER	900H	GLY
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 415 SERIES (L SHAPED) X 36" HEIGHT	IPC
1	EA	COORDINATOR	COR X FL AS REQUIRED	IVE
2	EA	SILENCER	SR64	IVE

SDC equipment cut-off switch

HW SET: HW-28 UNEQUAL

DOOR NUMBER:
G022

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	SET	AUTO FLUSH BOLT	FB31P	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1			ASTRAGAL BY DOOR MFG	
2	EA	SURFACE CLOSER	4011 DEL	LCN
2	EA	OVERHEAD STOP	900S	GLY
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 36 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

1	SET	SEALS	5060 MEETING EDGE	NGP
1	EA	COORDINATOR	COR X FL AS REQUIRED	IVE

HW SET: HW-29 UNEQUAL

DOOR NUMBER:
G001E

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	SET	CONST LATCHING BOLT	FB51P	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
2	EA	SURFACE CLOSER	4011 H	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	EA	COORDINATOR	COR X FL AS REQUIRED	IVE
2	EA	SILENCER	SR64	IVE

HW SET: HW-30

DOOR NUMBER:
2001B

EACH TO HAVE:

6	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
2	EA	DOOR PULL	8114-5	IVE
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
2	EA	SILENCER	SR64	IVE
2	EA	MAGNETIC CATCH	327	IVE

HW SET: HW-31 CORRIDOR PAIR

DOOR NUMBER:
2X040B 2X120 2X130

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	EA	PANIC HARDWARE	CD9927EO LBR	VON
1	EA	PANIC HARDWARE	CD9927L LBR 996L-BE	VON
2	EA	CYLINDER	MORTISE AS REQUIRED	SCH

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 37 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

2	EA	SURFACE CLOSER	4111 DEL	LCN
2	EA	KICK PLATE	10" X 2" LDW	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
2	EA	SILENCER	SR64	IVE

HW SET: HW-32 UNEQUAL, UNRATED

DOOR NUMBER:
2045

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	SET	AUTO FLUSH BOLT	FB31P/FB41P	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
2	EA	SURFACE CLOSER	4011 H	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 415 SERIES (L SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	EA	COORDINATOR	COR X FL AS REQUIRED	IVE
2	EA	SILENCER	SR64	IVE

HW SET: HW-33

DOOR NUMBER:
1013 G016

EACH TO HAVE:

1	EA	POWER TRANSFER	EPT-10	VON
1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X EPT PREP	IVE
1	SET	AUTO FLUSH BOLT	FB31P	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	ELECTRIC STRIKE	6221 FSE 24VDC	VON
1			ASTRAGAL BY DOOR MFG	
2	EA	AUTO-EQUALIZER	4631	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	5060 MEETING EDGE	NGP
2	EA	WALL PLATE SWITCH	7910-956	LCN

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 38 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

1	EA	POWER SUPPLY	505-EIR	SCH
1	EA	KEYSWITCH	653-04	SCH
2	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

PRESS WALL SWITCH ON INTERIOR WORKS AT ALL TIMES. KEYSWITCH TO BE USED TO TRANSFER BETWEEN SECURED AND UNSECURED MODE. EXTERIOR PRESS WALL SWITCH TO BE DISABLED WHEN IN SECURED MODE.

HW SET: HW-34 DBL EGRESS

DOOR NUMBER:

1X030 1X050

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
2	EA	PUSH PLATE	8200 6" X 16"	IVE
2	EA	PULL PLATE	8303-8 6" X 16"	IVE
2	EA	SURFACE CLOSER	4111 DEL SCUSH	LCN
2	EA	KICK PLATE	10" X 2" LDW	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
2	EA	SILENCER	SR64	IVE

HW SET: HW-35 UNEQUAL, UNRATED

DOOR NUMBER:

2X080 2X080B

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	SET	AUTO FLUSH BOLT	FB31P/FB41P	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	PASSAGE SET	L9010	SCH
2	EA	SURFACE CLOSER	4011 H	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 415 SERIES (L SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	EA	COORDINATOR	COR X FL AS REQUIRED	IVE
2	EA	SILENCER	SR64	IVE

HW SET: HW-36

DOOR NUMBER:

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 39 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

1010

EACH TO HAVE:

1	EA	POWER TRANSFER	EPT-10	VON
1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X EPT PREP	IVE
1	SET	AUTO FLUSH BOLT	FB31P	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	ELECTRIC STRIKE	6221 FSE 24VDC	VON
1			ASTRAGAL BY DOOR MFG	
2	EA	AUTO-EQUALIZER	4631	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	5060 MEETING EDGE	NGP
2	EA	WALL PLATE SWITCH	7910-956	LCN
1	EA	POWER SUPPLY	505-EIR	SCH
1	EA	KEYSWITCH	653-04	SCH
2	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

PRESS WALL SWITCH ON INTERIOR WORKS AT ALL TIMES. KEYSWITCH TO BE USED TO TRANSFER BETWEEN SECURED AND UNSECURED MODE. EXTERIOR PRESS WALL SWITCH TO BE DISABLED WHEN IN SECURED MODE.

HW SET: HW-39

DOOR NUMBER:

1002

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	MORTISE DEADBOLT	L463	SCH
1	EA	OFFSET DOOR PULL	8190-0	IVE
1	EA	PUSH PLATE	8200 6" X 16"	IVE
1	EA	SURFACE CLOSER	4011 H	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
3	EA	SILENCER	SR64	IVE

HW SET: HW-41

DOOR NUMBER:

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 40 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

GX050

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
2	EA	PUSH PLATE	8200 6" X 16"	IVE
2	EA	PULL PLATE	8303-8 6" X 16"	IVE
2	EA	SURFACE CLOSER	4111 DEL SCUSH	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 415 SERIES (L SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	5060 MEETING EDGE	NGP

HW SET: HW-42

DOOR NUMBER:

G019

EACH TO HAVE:

2	EA	POWER TRANSFER	EPT-10	VON
2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X EPT PREP	IVE
1	EA	PANIC HARDWARE	EL9927EO-LBR	VON
1	EA	PANIC HARDWARE	EL9927L-LBR 996L	VON
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	CYLINDER	RIM AS REQUIRED	SCH
1	EA	CARD READER	BY SECURITY INTEGRATION PROVIDER	
2	EA	AUTO-EQUALIZER	4642	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	5060 MEETING EDGE	NGP
2	EA	WALL PLATE SWITCH	7910-956	LCN
1	EA	POWER SUPPLY	PS873-2-AO-AC	VON
1	EA	KEYSWITCH	653-04	SCH
2	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

PRESS WALL SWITCH ON INTERIOR WORKS AT ALL TIMES. KEYSWITCH TO BE USED TO TRANSFER BETWEEN SECURED AND UNSECURED MODE. EXTERIOR PRESS WALL SWITCH TO BE DISABLED WHEN IN SECURED MODE UNTIL AUTHORIZED CARD IS USED AT READER.

HW SET: HW-43

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 41 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

DOOR NUMBER:
R001

EACH TO HAVE:

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1	EA	SURFACE CLOSER	4111 EDA	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-44

DOOR NUMBER:
3044

EACH TO HAVE:

6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	IVE
2	EA	MANUAL FLUSH BOLT	FB458	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1			ASTRAGAL BY DOOR MFG	
2	EA	SURFACE CLOSER	4111 EDA	LCN
2	EA	KICK PLATE	10" X 2" LDW	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	5060 MEETING EDGE	NGP

HW SET: HW-45

DOOR NUMBER:
1003

EACH TO HAVE:

6	EA	HINGE	5BB1HW 4.5 X 4.5	IVE
2	EA	MANUAL FLUSH BOLT	FB358/FB458	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	MORTISE DEADBOLT	L463	SCH
2	EA	OFFSET DOOR PULL	8190-0	IVE
2	EA	PUSH PLATE	8200 6" X 16"	IVE
2	EA	SURFACE CLOSER	4111 SCUSH	LCN
2	EA	KICK PLATE	10" X 2" LDW	IPC
2	EA	SILENCER	SR64	IVE

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 42 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

HW SET: HW-46

DOOR NUMBER:

1024a G033

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1	EA	SURFACE CLOSER	4011	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-47

DOOR NUMBER:

1024B 1059C G003C

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1	EA	SURFACE CLOSER	4011	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
3	EA	STOP	WS407CCV OR FS436/FS438	IVE
3	EA	SILENCER	SR64	IVE

HW SET: HW-48

DOOR NUMBER:

1018A 2029 2035 2040 3030 3031
3049

EACH TO HAVE:

3	EA	HINGE	5BB1HW 4.5 X 4.5	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1	EA	SURFACE CLOSER	4011 DEL	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-49

DOOR NUMBER:

1031 1066 G017

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 43 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1	EA	SURFACE CLOSER	4011	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-50 LL

DOOR NUMBER:

1060B

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X LEAD LINED DOOR	IVE
1	EA	PUSH/PULL LATCH	HL6-L-9070-LFS	GLY
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	SURFACE CLOSER	4011 DEL LL	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

SDC equipment cut-off switch

HW SET: HW-51

DOOR NUMBER:

1018B G024 GM01 GM03A GM03B

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1	EA	SURFACE CLOSER	4011 DEL	LCN
1	EA	ARMOR PLATE	36" X 2" LDW	IPC
1	EA	MOP PLATE	6" X 2" LDW	IPC
1	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 44 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

HW SET: HW-52

DOOR NUMBER:

1046a	1046b	1047a	1047b	1X045A	1X045B
2031A	2031B	2032A	2032B	2033A	2033B
2034	2038A	2038B	2039A	2052	2056
2058B	2059	2061	2X100		

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	PASSAGE SET	L9010	SCH
1	EA	SURFACE CLOSER	4011 H	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-53

DOOR NUMBER:

GE01

EACH TO HAVE:

6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	IVE
2	EA	MANUAL FLUSH BOLT	FB458	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1			ASTRAGAL BY DOOR MFG	
2	EA	SURFACE CLOSER	4011	LCN
2	EA	KICK PLATE	10" X 2" LDW	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	5060 MEETING EDGE	NGP

HW SET: HW-54

DOOR NUMBER:

GE02A

EACH TO HAVE:

3	EA	HINGE	5BB1HW 4.5 X 4.5	IVE
1	EA	FIRE EXIT HARDWARE	99L-F-BE 996L	VON
1	EA	SURFACE CLOSER	4011	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 45 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

HW SET: HW-56 LL

DOOR NUMBER:
1065A

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X LEAD LINED DOOR	IVE
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	PRIVACY SET	L9440 "EZ" THUMBTURN X LEAD LINED	SCH
1	EA	SURFACE CLOSER	4011 DEL LL	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

SDC equipment cut-off switch

HW SET: HW-57

DOOR NUMBER:
1033

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	PRIVACY SET	L9440 "EZ" THUMBTURN	SCH
1	EA	SURFACE CLOSER	4011 DEL	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	EA	DBL WARDROBE HOOK	582MB26D	IVE

HW SET: HW-58

DOOR NUMBER:

3013A	3014A	3015A	3016A	3017A	3018A
3019A	3020A	3021A	3037	3038	3039
3042	3043	3052A	3053A	3054A	3055A
3056A	3057A	3058A	3059A	4005A	4006A
4007A	4012A	4013A	4014A	4015A	4016A
4017A	4018A	4019A	4020A	4021A	4022A
4023A	4024A	4040A	4041A	4042A	4043A
4044A	4045A	4046A			

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 46 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	PRIVACY SET	L9440 "EZ" THUMBTURN	SCH
2	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	EA	DBL WARDROBE HOOK	582MB26D	IVE
3	EA	SILENCER	SR64	IVE

HW SET: HW-59

DOOR NUMBER:

1005 1007 G009A G009B

EACH TO HAVE:

3	EA	HINGE	5BB1HW 4.5 X 4.5	IVE
1	EA	PUSH PLATE	8200 6" X 16"	IVE
1	EA	PULL PLATE	8303-8 6" X 16"	IVE
1	EA	SURFACE CLOSER	4011 H	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
3	EA	SILENCER	SR64	IVE

HW SET: HW-60

DOOR NUMBER:

1036CA G027

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5 NRP	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1	EA	SURFACE CLOSER	4111 DEL	LCN
1	EA	ARMOR PLATE	36" X 2" LDW	IPC
1	EA	MOP PLATE	6" X 2" LDW	IPC
1	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-62

DOOR NUMBER:

RST02

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 47 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1HW 4.5 X 4.5	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1	EA	SURFACE CLOSER	4111 DEL	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-64 DBL ACTING

DOOR NUMBER:

1058AA 1058AB

EACH TO HAVE:

1	EA	DBL LIP STRIKE	DLS-8	MCK
2	EA	PIVOT, CENTER HUNG	EP5-J	MCK
1	EA	PRIVACY SET	L9040 "EZ" THUMBTURN	SCH
2	EA	SEAL	136P (AT JAMBS)	NGP
1	EA	EMERGENCY DOOR STOP	DS-6	MCK
1			INTERLOCK HARDWARE	

HW SET: HW-65 ANTEROOM

DOOR NUMBER:

4X100C

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
2	EA	MANUAL FLUSH BOLT	FB358/FB458	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	PASSAGE SET	L9010	SCH
2	EA	SURFACE CLOSER	4011 H	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
2	EA	SILENCER	SR64	IVE

HW SET: HW-66 DBL ACTING

DOOR NUMBER:

2051B 2053B 2055B 2057B 2058C 2060B

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 48 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

2062B

EACH TO HAVE:

1	EA	PIVOT SET	7253	IVE
2	EA	PUSH PLATE	8200 6" X 16"	IVE
1	EA	CONCEALED CLOSER	6031-169	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC

HW SET: HW-67

DOOR NUMBER:

1014A 1014B

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1HW 4.5 X 4.5	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1	EA	ARMOR PLATE	36" X 2" LDW	IPC
1	EA	DOOR EDGE GUARD	EDGE GUARD 415 SERIES (L SHAPED) X 36" HEIGHT	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
3	EA	SILENCER	SR64	IVE

HW SET: HW-68

DOOR NUMBER:

1004E	1013A	1024b	1035	1036A	1036B
1036CB	1051	2007	2008	2010	2013
2038C	2039	2043	3022	3046	3047
4025	4032	4048	4X050C	4X070A	4X100F
G004E					

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	EA	DBL WARDROBE HOOK	582MB26D	IVE
3	EA	SILENCER	SR64	IVE

HW SET: HW-70 UNEQUAL, UNRATED

DOOR NUMBER:

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 49 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

2048A 2048B

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	SET	AUTO FLUSH BOLT	FB31P/FB41P	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	PUSH/PULL LATCH	HL6-5-A	GLY
2	EA	SURFACE CLOSER	4011 H	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 415 SERIES (L SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	EA	COORDINATOR	COR X FL AS REQUIRED	IVE
2	EA	SILENCER	SR64	IVE

HW SET: HW-71

DOOR NUMBER:

2021AB 2021B 2021CB

EACH TO HAVE:

1	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	PUSH/PULL LATCH	HL6-5-A	GLY
1	EA	SURFACE CLOSER	4011 DEL	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	EA	DOOR BOTTOM	420NA	NGP

HW SET: HW-72

DOOR NUMBER:

1034	1055	1056	2014	2015	2016
3003	3004	3005	3006	3007	3009
4026	4035	G001C	G008A	G015B	G016A
G030B	G030C				

EACH TO HAVE:

3	EA	HINGE	5BB1HW 4.5 X 4.5	IVE
1	EA	OFFICE LOCK	L9050	SCH
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	EA	DBL WARDROBE HOOK	582MB26D	IVE
3	EA	SILENCER	SR64	IVE

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 50 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

HW SET: HW-73

DOOR NUMBER:
2044 2049

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	SET	AUTO FLUSH BOLT	FB31P/FB41P	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	PUSH/PULL LATCH	HL6-5-A	GLY
2	EA	SURFACE CLOSER	4011 DEL	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 415 SERIES (L SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	5060 MEETING EDGE	NGP
1	EA	COORDINATOR	COR X FL AS REQUIRED	IVE

HW SET: HW-74

DOOR NUMBER:

1025	1027A	2027A	2027B	2028A	2028B
3029	3035	3048	4031A	4033	

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	EA	PUSH/PULL LATCH	HL6-5-A	GLY
1	EA	SURFACE CLOSER	4011 DEL	LCN
1	EA	ARMOR PLATE	36" X 2" LDW	IPC
1	EA	DOOR EDGE GUARD	EDGE GUARD 415 SERIES (L SHAPED) X 36" HEIGHT	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

HW SET: HW-75

DOOR NUMBER:
G040A

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1	EA	ARMOR PLATE	36" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
3	EA	SILENCER	SR64	IVE

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 51 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

HW SET: HW-78 DBL ACTING

DOOR NUMBER:

1013B	1013C	1024A	1032	1046A	1046B
1046C	1047A	1047B	1047C	1047D	1047E
1047F	1048	1071	2003	2004	2021P
2022	2026H	3001A	3001B	3008	3010A
3011B	4001B	4001C	4047B	G003A	G003B
G018					

EACH TO HAVE:

1	EA	DBL LIP STRIKE	DLS-8	MCK
2	EA	PIVOT, CENTER HUNG	EP5-J	MCK
1	EA	PRIVACY SET	L9040 "EZ" THUMBTURN	SCH
2	EA	SEAL	136P (AT JAMBS)	NGP
1	EA	EMERGENCY DOOR STOP	DS-6	MCK

HW SET: HW-80 PATIENT ROOM

DOOR NUMBER:

1057	1058	3011A	3011C	3011D	3013
3014	3015	3016	3017	3018	3019
3020	3021	3052	3053	3054	3055
3056	3057	3058	3059	4005	4006
4007	4012	4013	4014	4015	4016
4017	4018	4019	4020	4021	4022
4023	4024	4041	4042	4043	4044
4045	4046				

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	EA	PASSAGE SET	L9010	SCH
1	EA	SURFACE CLOSER	4011 H	LCN
1	EA	ARMOR PLATE	36" X 2" LDW	IPC
1	EA	MOP PLATE	6" X 2" LDW	IPC
1	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
3	EA	SILENCER	SR64	IVE

HW SET: HW-81 (TEL./DATA, ELEC, CASHIER, LOUNGE, STAIR, CARD ACCESS)

DOOR NUMBER:

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 52 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

1053	2037	3025	4008	4029	4038
G009	G010	GST02			

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1	EA	ELECTRIC STRIKE	6210 FSE 24VDC	VON
1	EA	SURFACE CLOSER	4011	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	EA	POWER SUPPLY	505-EIR	SCE
1	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

HARDWIRED ACCESS CONTROLLED OPENING. CARD READER SPECIFIED IN SEPERATE SECTION.

HW SET: HW-82 (TEL./DATA, ELEC, CARD ACCESS)

DOOR NUMBER:

1T01	1T02	2046	2T01	GT01
------	------	------	------	------

EACH TO HAVE:

3	EA	HINGE, BALL BEARING	5BB1 4.5 X 4.5	IVE
1	EA	STOREROOM LOCK	L9080	SCH
1	EA	ELECTRIC STRIKE	6210 FSE 24VDC	VON
1	EA	SURFACE CLOSER	4111 EDA	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	EA	POWER SUPPLY	505-EIR	SCE
1	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

HARDWIRED ACCESS CONTROLLED OPENING. CARD READER SPECIFIED IN SEPERATE SECTION.

HW SET: HW-83

DOOR NUMBER:

G016B

EACH TO HAVE:

1	EA	POWER TRANSFER	EPT-10	VON
1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X EPT PREP	IVE
1	SET	AUTO FLUSH BOLT	FB31P	IVE

Mercy Health System of Maine
 Fore River Short Stay Hospital, Portland, Maine
 FCFH # F05-4898

Door Hardware
 Section 08710
 page 53 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	CLASSROOM LOCK	L9070	SCH
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	ELECTRIC STRIKE	6221 FSE 24VDC	VON
1			ASTRAGAL BY DOOR MFG	
1	EA	CARD READER	BY SECURITY INTEGRATION PROVIDER	
2	EA	AUTO-EQUALIZER	4631	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	5060 MEETING EDGE	NGP
2	EA	WALL PLATE SWITCH	7910-956	LCN
1	EA	POWER SUPPLY	505-EIR	SCH
1	EA	KEYSWITCH	653-04	SCH
2	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

PRESS WALL SWITCH ON INTERIOR WORKS AT ALL TIMES. KEYSWITCH TO BE USED TO TRANSFER BETWEEN SECURED AND UNSECURED MODE. EXTERIOR PRESS WALL SWITCH TO BE DISABLED WHEN IN SECURED MODE UNTIL AUTHORIZED CARD IS USED AT READER.

HW SET: HW-84

DOOR NUMBER:
G040B G040C

EACH TO HAVE:

2	EA	POWER TRANSFER	EPT-10	VON
2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X EPT PREP	IVE
1	EA	PANIC HARDWARE	EL9927EO-LBR	VON
1	EA	PANIC HARDWARE	EL9927L-LBR 996L	VON
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	CYLINDER	RIM AS REQUIRED	SCH
1	EA	CARD READER	BY SECURITY INTEGRATION PROVIDER	
2	EA	SURFACE CLOSER	4111 SCUSH	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
2	EA	MAGNETIC HOLD-OPEN	SEM 7800 SERIES (SPECIFY VOLTAGE)	LCN
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	5060 MEETING EDGE	NGP
1	SET	SEALS	A626A HEAD AND JAMBS	NGP
2	EA	DOOR SWEEP	100VA	NGP
1	EA	THRESHOLD	424	NGP
1	EA	POWER SUPPLY	PS873-2-AC	VON

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 54 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

2 EA CONTACT SWITCH R1076D (AL/HM DRS) / 1076D (WD DRS) SED

HW SET: HW-85

DOOR NUMBER:
GX030

EACH TO HAVE:

2	EA	POWER TRANSFER	EPT-10	VON
2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X EPT PREP	IVE
1	EA	PANIC HARDWARE	CX9927EO	VON
1	EA	PANIC HARDWARE	CX9927L 996L	VON
2	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	CYLINDER	RIM AS REQUIRED	SCH
2	EA	CARD READER	BY SECURITY INTEGRATION PROVIDER	
2	EA	SURFACE CLOSER	4111 SHCUSH	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	5060 MEETING EDGE	NGP
1	SET	SEALS	A626A HEAD AND JAMBS	NGP
2	EA	DOOR SWEEP	100VA	NGP
1	EA	THRESHOLD	424	NGP
1	EA	POWER SUPPLY	PS873-2-AC	VON
2	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

CARD ACCESS BOTH SIDES, CHEXIT TYPE DELAYED EGRESS DEVICE USED, MUST BE TIED TO FIRE ALARM.

HW SET: HW-86 PROX LOCK

DOOR NUMBER:

1004A 2030 3012 G001b G004F G005B

EACH TO HAVE:

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	IVE
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	ACCESS CONTROL LOCK	CM5596-PXK-17-ATK	SCE
1	EA	SURFACE CLOSER	4111 EDA	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 55 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

BATTERY POWERED PROXIMITY AND KEYPAD LOCKSET. IS FIRE ALARM OVERRIDE REQUIRED AT G001B OR G004F?

HW SET: HW-87 PROX LOCK

DOOR NUMBER:

1004B	1009A	1009B	1050	2011	2012
2019	2036A	2036B	2092	3002	3010
3012A	3026	3X130	4040		

EACH TO HAVE:

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	IVE
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	ACCESS CONTROL LOCK	CM5596-PXK-17-ATK	SCE
1	EA	SURFACE CLOSER	4011	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP

BATTERY POWERED PROXIMITY AND KEYPAD LOCKSET.

HW SET: HW-88

DOOR NUMBER:

1030	1X040	1X090
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EACH TO HAVE:

1	EA	POWER TRANSFER	EPT-10	VON
1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X EPT PREP	IVE
1	EA	PANIC HARDWARE	CD9927EO LBR	VON
1	EA	PANIC HARDWARE	CX9927EO LBR	VON
3	EA	CYLINDER	MORTISE AS REQUIRED	SCH
2	EA	SURFACE CLOSER	4111 SCUSH	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 415 SERIES (L SHAPED) X 36" HEIGHT	IPC
2	EA	MAGNETIC HOLD-OPEN	SEM 7800 SERIES (SPECIFY VOLTAGE)	LCN
1	EA	POWER SUPPLY	PS873-2-AC	VON

NORMALLY ON MAG HOLD OPENS. DURING SECURE TIMES DOOR FROM PUBLIC SIDE SECURED BY MEANS OF CHEXIT DEVICE. KEYSWITCH USED TO SILENCE ALARM AND SWITCH BETWEEN MODES.

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 56 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

TO BE TIED TO FIRE ALARM.

HW SET: HW-89

DOOR NUMBER:
1070

EACH TO HAVE:

2	EA	POWER TRANSFER	EPT-10	VON
2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X EPT PREP	IVE
1	EA	PANIC HARDWARE	EL9927EO-LBR	VON
1	EA	PANIC HARDWARE	EL9927L-LBR 996L	VON
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	CYLINDER	RIM AS REQUIRED	SCH
2	EA	AUTO-EQUALIZER	4642	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
3	EA	WALL PLATE SWITCH	7910-956	LCN
2	EA	SILENCER	SR64	IVE
1	EA	POWER SUPPLY	PS873-2-AO	VON

PRESS WALL SWITCHES WORK ALL TIMES. THREE PRESS WALL SWITCHES DUE TO CORRIDOR LAYOUT.

HW SET: HW-90

DOOR NUMBER:
1X100C

EACH TO HAVE:

1	EA	POWER TRANSFER	EPT-10	VON
1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X EPT PREP	IVE
1	EA	PANIC HARDWARE	CD3347A-EO	VON
1	EA	PANIC HARDWARE	EL3347A-L	VON
2	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	CYLINDER	RIM AS REQUIRED	SCH
1	EA	CARD READER	BY SECURITY INTEGRATION PROVIDER	
2	EA	SURFACE CLOSER	4111 SHCUSH	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 415 SERIES (L SHAPED) X 36" HEIGHT	IPC

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 57 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

1	SET	SEALS	A626A HEAD AND JAMBS	NGP
2	EA	DOOR SWEEP	100VA	NGP
2	EA	DOOR SWEEP	101VA	NGP
1	EA	DRIP CAP	16A	NGP
1	EA	THRESHOLD	424	NGP
1	EA	POWER SUPPLY	PS873-2-AC	VON
2	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

HW SET: HW-91

DOOR NUMBER:
2X030A

EACH TO HAVE:

2	EA	POWER TRANSFER	EPT-10	VON
2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X EPT PREP	IVE
1	EA	PANIC HARDWARE	CX9927EO	VON
1	EA	PANIC HARDWARE	CX9927L 996L	VON
3	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	CYLINDER	RIM AS REQUIRED	SCH
2	EA	CARD READER	BY SECURITY INTEGRATION PROVIDER	
2	EA	AUTO-EQUALIZER	4631	LCN
2	EA	KICK PLATE	10" X 2" LDW	IPC
2	EA	MAGNETIC HOLD-OPEN	SEM 7800 SERIES (SPECIFY VOLTAGE)	LCN
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	SET	SEALS	5060 MEETING EDGE	NGP
2	EA	POWER SUPPLY	PS873-2-AO-AC	VON
2	EA	KEYSWITCH	653-14-L2	SCE

CARD ACCESS BOTH SIDES, CHEXIT TYPE DELAYED EGRESS DEVICE USED, MUST BE TIED TO FIRE ALARM. PRESS WALL SWITCHED OPERATE ONLY WHEN OPENING IS UNLOCKED. KEYSWITCHES OR WIRED PROX TO BE USED TO CONVERT BETWEEN SECURE (LOCKED) AND UNSECURE (UNLOCKED) MODES.

HW SET: HW-92

DOOR NUMBER:
2X040A 2X080A 3X110A 3X110B

EACH TO HAVE:

2	EA	POWER TRANSFER	EPT-10	VON
2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X EPT PREP	IVE
1	EA	PANIC HARDWARE	EL9927EO-F-LBR	VON
1	EA	PANIC HARDWARE	EL9927L-F-LBR 996L	VON
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 58 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

1	EA	CYLINDER	RIM AS REQUIRED	SCH
2	EA	AUTO-EQUALIZER	4642	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
2	EA	WALL PLATE SWITCH	7910-956	LCN
2	EA	SILENCER	SR64	IVE
1	EA	POWER SUPPLY	PS873-2-AO	VON

PRESS WALL SWITCHES WORK ALL TIMES.

HW SET: HW-93

DOOR NUMBER:

2X030B 2X090

EACH TO HAVE:

2	EA	POWER TRANSFER	EPT-10	VON
2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X EPT PREP	IVE
2	EA	PANIC HARDWARE	EL9927EO-F-LBR	VON
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
2	EA	AUTO-EQUALIZER	4642	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
2	EA	WALL PLATE SWITCH	7910-956	LCN
2	EA	SILENCER	SR64	IVE
1	EA	POWER SUPPLY	PS873-2-AO	VON

PRESS WALL SWITCHES WORK ALL TIMES. DOUBLE EGRESS

HW SET: HW-94

DOOR NUMBER:

1059 1059A 2051A 2053A 2055A 2057A
2058A 2060A 2062A G021

EACH TO HAVE:

1	EA	POWER TRANSFER	EPT-10	VON
1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 59 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

1	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT X EPT PREP	IVE
1	SET	AUTO FLUSH BOLT	FB31P/FB41P	IVE
1	EA	DUST PROOF STRIKE	DP2	IVE
1	EA	PANIC HARDWARE	EL9927L-LBR 996L	VON
1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1	EA	CYLINDER	RIM AS REQUIRED	SCH
1	EA	SURFACE CLOSER	4011 DEL	LCN
1	EA	AUTO-EQUALIZER	4631	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
2	EA	WALL PLATE SWITCH	7910-956	LCN
2	EA	SILENCER	SR64	IVE
1	EA	POWER SUPPLY	PS873-2-AO	VON

PRESS WALL SWITCHES WORK ALL TIMES. AUTO OPERATOR ON ACTIVE DOOR ONLY

HW SET: HW-95

DOOR NUMBER:

3ST01 3ST02

EACH TO HAVE:

3	EA	HINGE	5BB1HW 5 X 4.5 NRP	IVE
1	EA	FIRE EXIT HARDWARE	99L-F-BE 996L	VON
1	EA	CARD READER	BY SECURITY INTEGRATION PROVIDER	
1	EA	SURFACE CLOSER	4111 SCUSH	LCN
1	EA	KICK PLATE	10" X 2" LDW	IPC
1	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	SET	SEAL	5020 HEAD & JAMBS	NGP
1	EA	POWER SUPPLY	505-EIR	SCH
1	EA		"HUGS" INFANT AB. MAGNETIC LOCK	
1	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

CARD ACCESS BOTH SIDES, ELECTRICALLY LOCKED "HUGS" MAGNETIC LOCK. MUST BE TIED TO FIRE ALARM TO UNLOCK DURING FIRE ALARM.

HW SET: HW-96

DOOR NUMBER:

3X050 3X080 3X100 4X010 4X020 4X030
4X070 4X100 GX040

Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 60 of 62

November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
2	EA	FIRE EXIT HARDWARE	9927EO-F-LBR	VON
2	EA	SURFACE CLOSER	4111 EDA	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
2	EA	MAGNETIC HOLD-OPEN	SEM 7800 SERIES (SPECIFY VOLTAGE)	LCN
2	EA	SILENCER	SR64	IVE

MAG HOLD ONLY

HW SET: HW-97

DOOR NUMBER:

3X010 3X030 3X070

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	705 X DOOR HEIGHT	IVE
2	EA	CARD READER	BY SECURITY INTEGRATION PROVIDER	
2	EA	SURFACE CLOSER	4111 SCUSH	LCN
2	EA	ARMOR PLATE	36" X 2" LDW	IPC
2	EA	MOP PLATE	6" X 2" LDW	IPC
2	EA	DOOR EDGE GUARD	EDGE GUARD 416 SERIES (U SHAPED) X 36" HEIGHT	IPC
2	EA	STOP	WS407CCV OR FS436/FS438	IVE
1	EA	POWER SUPPLY	505-EIR	SCH
2	EA		"HUGS" INFANT AB. MAGNETIC LOCK	
2	EA	CONTACT SWITCH	R1076D (AL/HM DRS) / 1076D (WD DRS)	SED

CARD ACCESS BOTH SIDES, ELECTRICALLY LOCKED "HUGS" MAGNETIC LOCK. MUST BE TIED TO FIRE ALARM TO UNLOCK DURING FIRE ALARM.

HW SET: HW-98

DOOR NUMBER:

ACCESS

EACH TO HAVE:

1	EA	INTERFACE PACK	EXCIP+	SCE
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Mercy Health System of Maine
Fore River Short Stay Hospital, Portland, Maine
FCFH # F05-4898

Door Hardware
Section 08710
page 61 of 62
November 10, 2006

FINAL ISSUED FOR CONSTRUCTION

BATTERY POWERED ACCESS CONTROLLED HARDWARE, BACK END SYSTEM

HW SET: OHD-01

DOOR NUMBER:

1012A	1012B	G001B	G030A	G040E	G040F
G040G	GM04C				

EACH TO HAVE:

1	EA	CYLINDER	MORTISE AS REQUIRED	SCH
1			BALANCE OF HARDWARE BY DOOR MANUFACTURER	

END OF SECTION