

**FINISH HARDWARE  
SECTION 08700**

PART 1- GENERAL

1.01 Work Included

Furnish, install finish hardware necessary for doors as enumerated in the sets and as indicated or required by actual conditions at the building. The hardware shall include all screws, bolts, expansion shields and all other devices needed for the proper application of the finish hardware. General and Supplementary Conditions as described in Division 1 apply.

1.02 Drawings

Consult drawings note all conditions that may affect the work and the care for same in executing the Contract.

1.03 Related Sections

A.	Finish Carpentry	Section 06200
B.	Metal doors and frames	Section 08100
C.	Flush Wood Doors	Section 08200
D.	Entrance and Storefronts	Section 08410
E.	Painting	Section 09900
F.	Electrical	Section 16000

1.04 References

A.	NFPA-80	Fire Doors & Windows	(1992 Edition)
B.	NFPA-101	Life Safety Code	(1994 Edition)
C.	DHI	Installation Guide	(1986 Edition)
D.	DHI	Keying Terminology	(1989 Edition)
E.	ANSI/BHMA	Standards	-----
F.	MAINE BUILDING CODE		Current Edition
G.	MAINE ACCESS BOARD		Current Edition

1.05 Submittals

- A. Make all submittals in accordance with Section 01340.
- B. Submit six (6) copies of a typed hardware schedule including catalog cuts in the

## WALKER TERRACE – PORTLAND, MAINE

scheduling format recommended by DHI. The Architect's approval will not relieve the contractor of the responsibility of providing all required hardware needed to complete the project.

- C. Upon request from the Architect, submit one (1) sample of each proposed hardware item to be used in this project. All samples remain the property of the supplier and will be returned after completion of the project.
- D. Furnish all templates needed by door and frame manufacturer to enable proper machining for the required template hardware.
- E. Supply a complete keying schedule for approval by Architect. This should be done after keying meeting has been held with owner's representative. Submit this keying schedule using the reference manual from DHI.
- F. Submit wiring and riser diagrams needed for all electrical/electronic hardware.
- G. At the completion of the project, supply the owner with two (2) copies of an Owner's Operation and Maintenance Manual. This manual shall consist of a hard cover (3) ring binder with the project name listed on the front. Included will be:
  - 1. A final copy of the approved and as built hardware schedule.
  - 2. A final copy of the approved keying schedule.
  - 3. Catalog cuts for each item used in the project.
  - 4. Parts list and numbers for each item used.
  - 5. Maintenance instructions for all items .
  - 6. Name, address and phone number of local representative for each item used.

### 1.06 Quality Assurance

- A. Manufacturer's model numbers listed in sets are to establish the standard of quality. Similar items listed by one of the other listed manufacturer's that conforms to the quality standard, may be accepted upon prior approval by Architect provided required the data and physical samples are submitted in accordance with Section 01630.
- B. Hardware supplier must be engaged in regularly contracting work and be staffed to expedite the work. The firm shall have been furnishing finish hardware on similar projects in the vicinity of this project for no less than five (5) years. The firm shall also employ a Certified Architectural Hardware Consultant (AHC) or a person with proper documented qualifications acceptable and approved by the Architect, to inspect periodically and direct detailing, setting, applying of architectural grade finish hardware.

## WALKER TERRACE – PORTLAND, MAINE

### 1.07 Delivery, Storage and Handling

- A. Hardware shall be delivered to the job site in the manufacturer's original packages, marked to correspond with the approved hardware schedule door numbers.
- B. Provide a clean, dry, locked and lighted room with shelves exclusively used to store hardware.
- C. A delivery document shall be signed by both the distributor representative and an authorized representative of the contractor after verification of the quantities delivered.

### 1.08 Warrantee

- A. Supply written warranties from all manufacturers. Supply from the door closer manufacturer a warranty document for no less than 10 years from the date of substantial completion of the project.

### 1.09 Maintenance

- A. Furnish one (1) dozen extra screws or fasteners of each type size and of the same finish used in this project.

## PART 2- PRODUCTS

## Walker Terrace Hardware Schedule

### Heading #1 (HW-01 SGL LOBBY VEST. DR.103)

Item #1 1 Single door

36" x 84" x 1 3/4" - WD DR x WD FR

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3	Hanging Device	EXTERIOR HINGE HEAVY DUTY NRP
1	Securing Device	MORTISE LOCK GRADE 1
1	Closing Device	DOOR CLOSER
1	Protective Plate	KICKPLATE
1	Protective Plate	LATCH PROTECTOR
1	Accessory	DOOR BOTTOM SWEEP
3	Accessory	DOOR SILENCER
1	Accessory	ELECTRIC STRIKE
1	Accessory	PERIMETER WEATHERSTRIP
1	Accessory	THRESHOLD

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### Heading #2 (HW-02 SGL EXT. DR #102)

Item #2 1 Single door

36" x 84" x 1 3/4" - WD DR x WD FR

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3	Hanging Device	EXTERIOR HINGE HEAVY DUTY NRP
1	Operating Trim	10" CENTER LINE PULL & PUSH PLATE
1	Closing Device	DOOR CLOSER
1	Protective Plate	KICKPLATE
1	Accessory	DOOR BOTTOM SWEEP
3	Accessory	DOOR SILENCER
1	Accessory	PERIMETER WEATHERSTRIP
1	Accessory	THRESHOLD

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Heading #3 (HW-03 SGL EXT/STAIRWELL DR)

Item #3 1 Single door

36" x 84" x 1 3/4" - HM DR x HM FR

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|---|------------------|---------------------------|
| 3 | Hanging Device   | INTERIOR STANDARD HINGE   |
| 1 | Securing Device  | CYLINDRICAL GRADE 1 LEVER |
| 1 | Closing Device   | DOOR CLOSER               |
| 1 | Protective Plate | KICKPLATE                 |
| 1 | Stop / Holder    | DOOR STOP                 |
| 1 | Accessory        | DOOR BOTTOM SWEEP         |
| 3 | Accessory        | DOOR SILENCER             |
| 1 | Accessory        | PERIMETER WEATHERSTRIP    |
| 1 | Accessory        | THRESHOLD                 |
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Heading #4 (HW-04 SGL ELEV. LOBBY SMOKE ENTRY)

Item #4 1 Single door

36" x 80" x 1 3/4" - WD DR x HM FR

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|---|------------------|---------------------------------|
| 3 | Hanging Device   | INTERIOR STANDARD HINGE         |
| 1 | Securing Device  | CYLINDRICAL GRADE 1 LEVER       |
| 1 | Closing Device   | DOOR CLOSER                     |
| 1 | Protective Plate | KICKPLATE                       |
| 3 | Accessory        | DOOR SILENCER                   |
| 1 | Miscellaneous 1  | PERIMETER SMOKE GASKET          |
| 1 | Miscellaneous 2  | MAGNETIC HOLD OPEN - WALL MOUNT |
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Heading #5 (HW-05 SGL LAUNDRY ROOM)

Item #5 1 Single door

36" x 80" x 1 3/4" - HM DR x HM FR

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|---|------------------|---------------------------|
| 3 | Hanging Device   | INTERIOR STANDARD HINGE   |
| 1 | Securing Device  | CYLINDRICAL GRADE 1 LEVER |
| 1 | Closing Device   | DOOR CLOSER               |
| 1 | Protective Plate | KICKPLATE                 |
| 1 | Stop / Holder    | DOOR STOP                 |
| 3 | Accessory        | DOOR SILENCER             |
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Heading #6 (HW-06 SGL MECH. RM DOOR)

Item #6 1 Single door

36" x 80" x 1 3/4" - HM DR x HM FR

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3	Hanging Device	INTERIOR STANDARD HINGE
1	Securing Device	CYLINDRICAL GRADE 1 LEVER
1	Closing Device	DOOR CLOSER
1	Protective Plate	KICKPLATE
1	Stop / Holder	DOOR STOP
3	Accessory	DOOR SILENCER

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Heading #7 (HW-07 TYPICAL TRASH ROOM)

Item #7 1 Single door

36" x 80" x 1 3/4" - WD DR x HM FR

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3	Hanging Device	INTERIOR STANDARD HINGE
1	Securing Device	CYLINDRICAL GRADE 1 LEVER
1	Closing Device	DOOR CLOSER
1	Protective Plate	KICKPLATE
1	Stop / Holder	DOOR STOP
3	Accessory	DOOR SILENCER

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Heading #8 (HW-08 DBL TRASH COMP./ELECT.VAULT)

Item #8 1 Pair of doors

36", 36" x 80" x 1 3/4" - HM DR x HM FR

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6	Hanging Device	INTERIOR STANDARD HINGE
2	Securing Device	12" FLUSH BOLTS
1	Securing Device	CYLINDRICAL GRADE 1 LEVER
1	Closing Device	DOOR CLOSER
2	Protective Plate	KICKPLATE
2	Stop / Holder	DOOR STOP
2	Accessory	DOOR SILENCER

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**Heading #9 (HW-09 SGL UNIT ENTRY)**

**Item #9**            1 Single door

36" x 80" x 1 3/4" - WD DR x HM FR

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|---|-----------------|-------------------------------|
| 2 | Hanging Device  | INTERIOR SPRING HINGE         |
| 1 | Hanging Device  | INTERIOR STANDARD HINGE       |
| 1 | Securing Device | CYLINDRICAL GRADE 1 LEVER     |
| 1 | Stop / Holder   | DOOR STOP                     |
| 3 | Accessory       | DOOR SILENCER                 |
| 1 | Miscellaneous 1 | INTEROR DOOR KNOCKER W/VIEWER |
| 1 | Miscellaneous 1 | PERIMETER SMOKE GASKET        |
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**Heading #10 (HW-10 SGL BED/BATH PRIVACY)**

**Item #10**            1 Single door

36" x 80" x 1 3/8" - WD DR x WD FR

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|---|-----------------|-----------------------------------|
| 3 | Hanging Device  | RESIDENTIAL 3.5 INTERIOR HINGE    |
| 1 | Securing Device | CYLINDRICAL GRADE 2 LEVER-PRIVACY |
| 1 | Stop / Holder   | DOOR STOP                         |
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**Heading #11 (HW-11 SGL INT. CLOSET)**

**Item #11**            1 Single door

36" x 80" x 1 3/8" - WD DR x WD FR

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- |   |                 |                                    |
|---|-----------------|------------------------------------|
| 3 | Hanging Device  | RESIDENTIAL 3.5 INTERIOR HINGE     |
| 1 | Securing Device | CYLINDRICAL GRADE 2 LEVER -PASSAGE |
| 1 | Stop / Holder   | DOOR STOP                          |
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**Heading #12 (HW-12 DBL BYPASS CLOSET)**

**Item #12**

**1 Pair of doors**

**30", 30" x 80" x 1 3/8" - WD DR x WD FR**

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|----------|-----------------------|--------------------------------------|
| <b>1</b> | <b>Hanging Device</b> | <b>BYPASS DOOR TRACK RESIDENTIAL</b> |
| <b>2</b> | <b>Accessory</b>      | <b>4" WIRE PULL</b>                  |



## WALKER TERRACE – PORTLAND, MAINE

### PART - 3 EXECUTION

#### 3.01 Examination

- A. Installer shall examine doors, frames and conditions under which the work is to be performed and notify the Architect in writing of any detrimental conditions to the proper completion of the installation. DO NOT proceed until unsatisfactory conditions have been corrected. Starting of the work means the installer has accepted all substrates and conditions and the responsibility.

#### 3.02 Installation

- A. Comply with the manufacturer's instructions on the installation of the finish hardware. Install door-closing devices away from public view when possible.
- B. Mount the finish hardware at the recommended location listed in DHI' s document on installation, except where required by law.
- C. Install surface closers and exit devices with trough bolts and/or grommets only at HM Doors. Wood doors shall not have any visible fasteners.
- D. Provide for the mechanical hardware installer shall be present when electrical connections are made to electrical hardware to make final adjustments to the mechanical hardware.

#### 3.03 Adjusting and cleaning

- A. At completion of installation, hardware shall be left clean and free from disfigurement. Make final adjustments to all closing devices after HVAC system has been activated and balanced. Where hardware is found defective repair or replace as instructed by the Architect.

#### 3.04 Protection

- A. Provide proper protection of the hardware items until the Architect accepts the project as complete.

#### 3.05 Field Quality Control

- A. After final installation and adjustments are made, provide for the manufacturers representative of each major group of hardware to determine if their products were installed according to their recommended guidelines and the approved hardware schedules. This task shall be supervised by a certified AHC chosen

## WALKER TERRACE – PORTLAND, MAINE

by the Architect. This Individual shall provide a written report confirming that all hardware has been installed properly and that it is operating as intended.

### 3.06 Hardware Sets

- A. The following hardware sets are intended to represent the finish hardware required for typical openings in this project. However it shall not be construed as a complete listing of the proper hardware needed for completion of this project. Bidders shall verify the plans and shall be responsible for the quantities, and the adequacy of the hardware needed to comply with all Federal, State and Local Laws and regulations.

**END OF SECTION**