# **Project Manual**

Bid Package 02 Addendum No.04 Volume I Divisions 08

# Cherokee Nation WILMA P. MANKILLER HEALTH CENTER EXPANSION

Stilwell, Oklahoma

February 18, 2020



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#### NOTE FOR REVISED SPECIFICATION SECTIONS

1. DELETED INFORMATION IS INDICATED BY A STRIKETHROUGH (IE, THIS IS DELETED).

2. NEW INFORMATION IS INDICATED BY A DOUBLE UNDERLINE (IE, THIS IS ADDED).

3. ALL REVISED INFORMATION IS FURTHER IDENTIFIED BY A HEAVY VERTICAL LINE TO THE RIGHT OF ALL REVISIONS IN EACH INDIVIDUAL SPECIFICATION SECTION (REFER TO HEAVY BOLD LINE TO THE RIGHT FOR AN EXAMPLE).

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13 4900	Radiation Protection

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2019-12-06	33 4100	Storm Drainage

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#### SECTION 08 71 00

#### DOOR HARDWARE

#### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section includes:
  - 1. Mechanical and electrified door hardware for:
    - a. Swinging doors.
    - b. Sliding doors.
    - c. Gates.
  - 2. Electronic access control system components, including:
    - a. Biometric access control reader.
    - b. Electronic access control devices.
  - 3. Field verification, preparation and modification of existing doors and frames to receive new door hardware.
  - 4. Lead-lining door hardware items required for radiation protection at door openings.
- B. Exclusions: Unless specifically listed in hardware sets, hardware is not specified in this section for:
  - 1. Windows
  - 2. Cabinets (casework), including locks in cabinets
  - 3. Signage
  - 4. Toilet accessories
  - 5. Overhead doors
- C. Related Sections:
  - 1. Division 01 Section "Alternates" for alternates affecting this section.
  - 2. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
  - 3. Division 09 sections for touchup finishing or refinishing of existing openings modified by this section.
  - 4. Division 13 Section "Radiation Protection" for requirements for lead-lining for door hardware at openings indicated to receive radiation protection.

- 5. Division 26 sections for connections to electrical power system and for low-voltage wiring.
- 6. Division 28 sections for coordination with other components of electronic access control system.

#### 1.3 **REFERENCES**

- A. 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
- B. DHI Door and Hardware Institute
  - 1. Sequence and Format for the Hardware Schedule
  - 2. Recommended Locations for Builders Hardware
  - 3. Key Systems and Nomenclature
- C. ANSI American National Standards Institute
  - 1. ANSI/BHMA A156.1 A156.29, and ANSI/BHMA A156.31 Standards for Hardware and Specialties

#### 1.4 SUBMITTALS

- A. General:
  - 1. Submit in accordance with Conditions of Contract and Division 01 requirements.
  - 2. Highlight, encircle, or otherwise specifically identify on submittals deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.
  - 3. Prior to forwarding submittal, comply with procedures for verifying existing door and frame compatibility for new hardware, as specified in PART 3, "EXAMINATION" article, herein.
- B. Action Submittals:
  - 1. Product Data: 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.
  - 2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
    - a. Wiring Diagrams: For power, signal, and control wiring and including:
      - 1) Details of interface of electrified door hardware and building safety and security systems.
      - 2) Schematic diagram of systems that interface with electrified door hardware.
      - 3) Point-to-point wiring.
      - 4) Risers.

- 3. Samples for Verification: If requested by Architect, submit production sample or sample installations of each type of exposed hardware unit in finish indicated, and tagged with full description for coordination with schedule.
  - a. Samples will be returned to supplier in like-new condition. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.
- 4. Door Hardware Schedule: Submit schedule with hardware sets in vertical format as illustrated by 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:
  - a. Door Index; include door number, heading number, and Architects hardware set number.
  - b. Opening Lock Function Spreadsheet: List locking device and function for each opening.
  - c. Type, style, function, size, and finish of each hardware item.
  - d. Name and manufacturer of each item.
  - e. Fastenings and other pertinent information.
  - f. Location of each hardware set cross-referenced to indications on Drawings.
  - g. Explanation of all abbreviations, symbols, and codes contained in schedule.
  - h. Mounting locations for hardware.
  - i. Door and frame sizes and materials.
  - j. Name and phone number for local manufacturer's representative for each product.
  - k. 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 access control components).
    Operational description should include how door will operate on egress, ingress, and fire and smoke alarm connection.
    - Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work that is critical in Project construction schedule.
- 5. Key Schedule:
  - a. After Keying Conference, provide keying schedule listing levels of keying as well as explanation of key system's function, key symbols used and door numbers controlled.
  - b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
  - c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
  - d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
  - e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion.
    - 1) Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
  - f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

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- 6. Templates: After final approval of hardware schedule, provide templates for doors, frames and other work specified to be factory prepared for door hardware installation.
- C. Informational Submittals:
  - 1. Qualification Data: For Supplier, Installer and Architectural Hardware Consultant.
  - 2. Product Certificates for electrified door hardware, signed by manufacturer:
    - a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
  - 3. Certificates of Compliance:
    - a. Certificates of compliance for fire-rated hardware and installation instructions if requested by Architect or Authority Having Jurisdiction.
    - b. Installer Training Meeting Certification: Letter of compliance, signed by Contractor, attesting to completion of installer training meeting specified in "QUALITY ASSURANCE" article, herein.
    - c. Electrified Hardware Coordination Conference Certification: Letter of compliance, signed by Contractor, attesting to completion of electrified hardware coordination conference, specified in "QUALITY ASSURANCE" article, herein.
  - 4. Product Test Reports: For compliance with accessibility requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by qualified testing agency, for door hardware on doors located in accessible routes.
  - 5. Warranty: Special warranty specified in this Section.
- D. Closeout Submittals:
  - 1. Operations and Maintenance Data : Provide in accordance with Division 01 and include:
    - a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
    - b. Catalog pages for each product.
    - c. Name, address, and phone number of local representative for each manufacturer.
    - d. Parts list for each product.
    - e. Final approved hardware schedule, edited to reflect conditions as-installed.
    - f. Final keying schedule
    - g. Copies of floor plans with keying nomenclature
    - h. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.
    - i. Copy of warranties including appropriate reference numbers for manufacturers to identify project.

#### 1.5 QUALITY ASSURANCE

- A. Product Substitutions: Comply with product requirements stated in Division 01 and as specified herein.
  - 1. Where specific manufacturer's product is named and accompanied by "No Substitute," including make or model number or other designation, provide product specified. (Note: Certain products have been selected for their unique characteristics and particular project suitability.)

- a. Where no additional products or manufacturers are listed in product category, requirements for "No Substitute" govern product selection.
- 2. Where products indicate "acceptable manufacturers" or "acceptable manufacturers and products", provide product from specified manufacturers, subject to compliance with specified requirements and "Single Source Responsibility" requirements stated herein.
- B. Supplier Qualifications and Responsibilities: Recognized architectural hardware supplier with 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 certified Architectural Hardware Consultant (AHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
  - 1. Warehousing Facilities: In Project's vicinity.
  - 2. Scheduling Responsibility: Preparation of door hardware and keying schedules.
  - 3. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
  - 4. Coordination Responsibility: Coordinate installation of electronic security hardware with Architect and electrical engineers and provide installation and technical data to Architect and other related subcontractors.
    - a. Upon completion of electronic security hardware installation, inspect and verify that all components are working properly.
- C. Installer Qualifications: Qualified tradesmen, skilled in application of commercial grade hardware with record of successful in-service performance for installing door hardware similar in quantity, type, and quality to that indicated for this Project.
- D. Architectural Hardware Consultant Qualifications: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:
  - 1. For door hardware, DHI-certified, Architectural Hardware Consultant (AHC).
  - 2. Can provide installation and technical data to Architect and other related subcontractors.
  - 3. Can inspect and verify components are in working order upon completion of installation.
  - 4. Capable of producing wiring diagrams.
  - 5. Capable of coordinating installation of electrified hardware with Architect and electrical engineers.
- E. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.
  - 1. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated.
  - 2. Manufacturers that perform electrical modifications and that are listed by testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.
- F. Fire-Rated Door Openings: Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to products tested by Underwriters Laboratories, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.

- G. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
  - 1. Air Leakage Rate: Maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.
- H. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
- I. Means of Egress Doors: Latches do not require more than 15 lbf (67 N) to release latch. Locks do not require use of key, tool, or special knowledge for operation.
- J. Accessibility Requirements: For door hardware on doors in an accessible route, comply with governing accessibility regulations cited in "REFERENCES" article, herein.
  - 1. Provide operating devices that do not require tight grasping, pinching, or twisting of wrist and that operate with force of not more than 5 lbf (22.2 N).
  - 2. Maximum opening-force requirements:
    - a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf (22.2 N) applied perpendicular to door.
    - b. Sliding or Folding Doors: 5 lbf (22.2 N) applied parallel to door at latch.
    - c. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
  - 3. Bevel raised thresholds with slope of not more than 1:2. Provide thresholds not more than 1/2 inch (13 mm) high.
  - 4. Adjust door closer sweep periods so that, from open position of 70 degrees, door will take at least 3 seconds to move to 3 inches (75 mm) from latch, measured to leading edge of door.
- K. Keying Conference: Conduct conference at Project site to comply with requirements in Division 01.
  - 1. Attendees: Owner, Contractor, Architect, Installer, Owner's security consultant, and Supplier's Architectural Hardware Consultant.
  - 2. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
    - a. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
    - b. Preliminary key system schematic diagram.
    - c. Requirements for key control system.
    - d. Requirements for access control.
    - e. Address for delivery of keys.
- L. Pre-installation Conference: Conduct conference at Project site.
  - 1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
  - 2. Inspect and discuss preparatory work performed by other trades.
  - 3. Inspect and discuss electrical roughing-in for electrified door hardware.
  - 4. Review sequence of operation for each type of electrified door hardware.
  - 5. Review required testing, inspecting, and certifying procedures.
- M. Coordination Conferences:

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- 1. Installation Coordination Conference: Prior to hardware installation, schedule and hold meeting to review questions or concerns related to proper installation and adjustment of door hardware.
  - a. Attendees: Door hardware supplier, door hardware installer, Contractor.
  - b. After meeting, provide letter of compliance to Architect, indicating when meeting was held and who was in attendance.
- 2. Electrified Hardware Coordination Conference: Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.
  - a. Attendees: electrified door hardware supplier, doors and frames supplier, electrified door hardware installer, electrical subcontractor, Owner, Owner's security consultant, Architect and Contractor.
  - b. After meeting, provide letter of compliance to Architect, indicating when coordination conference was held and who was in attendance.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site.
- B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.
  - 1. Deliver each article of hardware in manufacturer's original packaging.
- C. Project Conditions:
  - 1. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
  - 2. Provide secure lock-up for door hardware delivered to 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. Protection and Damage:
  - 1. Promptly replace products damaged during shipping.
  - 2. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work.
  - 3. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.
- E. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.
- F. Deliver keys to Owner by registered mail or overnight package service.

#### 1.7 COORDINATION

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete. Concrete, reinforcement, and formwork requirements are specified in Division 03.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.
- E. Existing Openings: Where hardware components are scheduled for application to existing construction or where modifications to existing door hardware are required, field verify existing conditions and coordinate installation of door hardware to suit opening conditions and to provide proper door operation.
- F. Direct shipments not permitted, unless approved by Contractor.

#### 1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
  - 1. Warranty Period: Years from date of Substantial Completion, for durations indicated.
    - a. Closers:
      - 1) Mechanical: 30 years.
    - b. Automatic Operators: 2 year.
    - c. Exit Devices:
      - 1) Mechanical: 3 years.
      - 2) Electrified: 1 year.
    - d. Locksets:
      - 1) Mechanical: 3 years.
      - 2) Electrified: 1 year.
    - e. Key Blanks: Lifetime
  - 2. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.

#### 1.9 **MAINTENANCE**

A. Maintenance Tools:

1. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

#### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. The Owner requires use of certain products for their unique characteristics and particular project suitability to insure continuity of existing and future performance and maintenance standards. After investigating available product offerings, the Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute."
  - 1. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.
- B. Approval of manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category shall be in accordance with QUALITY ASSURANCE article, herein.
- C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.
- D. 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.
- E. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

#### 2.2 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 including prepared for paint surfaces to receive painted finish.
- 3. Provide concealed fasteners for hardware units exposed when door is closed except when 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 thru-bolts are required to fasten hardware securely. Review door specification and advise Architect if thru-bolts are required.
- 4. Install hardware with fasteners provided by hardware manufacturer.
- B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

- 1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.
- C. Cable and Connectors: Hardwired Electronic Access Control Lockset and Exit Device Trim:
  - 1. Data: 24AWG, 4 conductor shielded, Belden 9843, 9841 or comparable.
  - 2. DC Power: 18 AWG, 2 conductor, Belden 8760 or comparable.
  - 3. Provide type of data and DC power cabling required by access control device manufacturer for this installation.
  - 4. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with sufficient number and wire gauge with standardized Molex plug connectors to accommodate electric function of specified hardware. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified pivot, and electric power transfer for connection to power supplies.

#### 2.3 HINGES

- A. Manufacturers and Products:
  - 1. Scheduled Manufacturer and Product: Ives 5BB series
  - 2. Acceptable Manufacturers and Products: Hager BB series, McKinney TA/T4A series
- B. Requirements:
  - 1. Provide five-knuckle, ball bearing hinges conforming to ANSI/BHMA A156.1.
  - 2. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
    - a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
    - b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high
  - 3. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
    - a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
    - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
  - 4. 2 inches or thicker doors:
    - a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
    - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
  - 5. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
  - 6. Where new hinges are specified for existing doors or existing frames, provide new hinges of identical size to hinge preparation present in existing door or existing frame.
  - 7. 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

- 8. Width of hinges: 4-1/2 inches (114 mm) at 1-3/4 inch (44 mm) thick doors, and 5 inches (127 mm) at 2 inches (51 mm) or thicker doors. Adjust hinge width as required for door, frame, and wall conditions to allow proper degree of opening.
- 9. Doors 36 inches (914 mm) wide or less furnish hinges 4-1/2 inches (114 mm) high; doors greater than 36 inches (914 mm) wide furnish hinges 5 inches (127 mm) high, heavy weight or standard weight as specified.
- 10. Provide hinges with electrified options as scheduled in the hardware sets. Provide with sufficient number and wire gage to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component.
- 11. Provide mortar guard for each electrified hinge specified.
- 12. Provide spring hinges where specified. Provide two spring hinges and one bearing hinge per door leaf for doors 90 inches (2286 mm) or less in height. Provide one additional bearing hinge for each 30 inches (762 mm) of additional door height.

#### 2.4 CYLINDRICAL LOCKS – GRADE 1

- A. Manufacturers and Products:
  - 1. Scheduled Manufacturer and Product: Corbin-Russwin Mechanical; Schlage ND Series - Electrified
  - 2. Acceptable Manufacturers and Products: No Substitution.
- B. Requirements:
  - 1. Provide cylindrical locks conforming to the following standards and requirements:
    - a. ANSI/BHMA A156.2 Series 4000, Grade 1.
    - b. UL 10C for 4'-0" x 10'-0" 3-hour fire door.
    - c. Florida Building Code (ASTM E330, E1886, E1996) and Miami Dade (TAS 201, 202, 203) requirements for hurricanes.
  - 2. Cylinders: Refer to "KEYING" article, herein.
  - 3. Provide cylindrical locksets exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security, and durability in the categories below:
    - a. Abusive Locked Lever Torque Test minimum 3,100 inch-pounds without gaining access
    - b. Cycle life tested to minimum 10 million cycles per ANSI/BHMA A156.2 Cycle Test with no visible lever sag or use of performance aids such as set screws or spacers.
  - 4. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2 inch latch throw. Provide proper latch throw for UL listing at pairs.
  - 5. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
  - 6. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
  - 7. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
  - 8. Provide electrified options as scheduled in the hardware sets.
  - 9. Lever Trim: Solid cast levers without plastic inserts, and wrought roses on both sides.
    - a. Lever Design: Dane.
    - b. Knurled finishes at openings serving rooms considered to be hazardous.

#### 2.5 EXIT DEVICES

#### LOW PROFILE PUSH BAR EXIT DEVICES

- A. Manufacturers and Products:
  - 1. Scheduled Manufacturer and Product: Von Duprin 99-series.
  - 2. Acceptable Manufacturer and Product: No Substitution.
- B. The maximum exit device projection shall be a maximum of 3-1/16" when activated. The exit device bar shall have an average minimum thickness of .201". The pushpad surface shall be constructed of stainless steel; pushpads with plastic or Lexan coatings shall not be acceptable. Nylon bearings and stainless steel springs shall be used for long life and durability. Only torsion or compression springs are acceptable. Extension type springs are not acceptable. All device covers shall be of cast brass, deep drawn steel or stainless steel. Latchbolts shall be of stainless steel and shall have a deadlocking latch for extra security, except at full-glass or two-light glass doors requiring narrow stile device. Mounting screws shall be concealed to deter tampering. All ferrous parts shall be zinc coated to prevent rusting.
- C. Single point, one quarter turn hex dogging shall be standard on panic listed devices. Optional key cylinder dogging shall be available, and furnished if so indicated in the hardware sets, on panic listed devices. Devices with hex key dogging shall be easily field converted to cylinder dogging.
- D. All devices shall be listed by Underwriters Laboratories for safety as panic hardware. Fire rated devices shall be UL listed for A label and lesser class doors, 4' x 8' single and 8 x 8' pair. The model number shall be located on the end cap; devices having the model number located other than on the end cap shall not be acceptable.
- E. All exit devices shall have a unitized installation feature and may be cut in the field to size. Devices shall be closed on all sides with no pinch points. The pushpad shall be designed to prevent pinching of the fingers when depressed.
- F. Exit Device trim to be throughbolted. Lever trim to be heavy duty forged escutcheon with free wheeling levers.
- G. All exit devices shall conform to Federal Specification FF-H-1820, and be certified as meeting ANSI A156.3, Grade 1 requirements.

#### 2.6 CYLINDERS

- A. Manufacturers:
  - 1. Scheduled Manufacturer: Corbin-Russwin
  - 2. Acceptable Manufacturers: No Substitution
- B. Requirements:
  - 1. Provide permanent cylinders/cores to match Owner's existing key system, compliant with ANSI/BHMA A156.5; latest revision, Section 12, Grade 1; permanent cylinders; cylinder

face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.

- 2. Replaceable Construction Cores.
  - a. Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
    - 1) 3 construction control keys
    - 2) 12 construction change (day) keys.
  - b. Owner or Owner's Representative will replace temporary construction cores with permanent cores.

#### 2.7 KEYING

- A. Provide a factory registered keying system, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.
- B. Provide cylinders/cores keyed into Owner's existing factory registered keying system, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.
- C. Requirements:
  - 1. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
    - a. Master Keying system as directed by the Owner.
  - 2. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements shall be cause for replacement of cylinders/cores involved at no additional cost to Owner.
  - 3. Provide keys with the following features:
    - a. Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
    - b. Patent Protection: Keys and blanks protected by one or more utility patent(s).
  - 4. Identification:
    - a. Mark permanent cylinders/cores and keys with applicable blind code per DHI publication "Keying Systems and Nomenclature" for identification. Blind code marks shall not include actual key cuts.
    - b. Identification stamping provisions must be approved by the Architect and Owner.
    - c. Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
    - d. Failure to comply with stamping requirements shall be cause for replacement of keys involved at no additional cost to Owner.
    - e. Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
  - 5. Quantity: Furnish in the following quantities.
    - a. Change (Day) Keys: 3 per cylinder/core.

b. Master Keys: 6.

#### 2.8 KEY CONTROL SYSTEM

- A. Manufacturers:
  - 1. Scheduled Manufacturer: Telkee
  - 2. Acceptable Manufacturers: HPC, Lund
- B. Requirements:
  - 1. Provide 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 number of locks required for Project.
    - a. Provide complete cross index system set up by hardware supplier, and place keys on markers and hooks in cabinet as determined by final key schedule.
    - b. Provide hinged-panel type cabinet for wall mounting.

#### 2.9 DOOR CLOSERS

- A. Manufacturers and Products:
  - 1. Scheduled Manufacturer and Product: LCN 4040 series
  - 2. Acceptable Manufacturers and Products: No Substitution.
- B. Requirements:
  - 1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory.
  - 2. Provide door closers with fully hydraulic, full rack and pinion action cast iron cylinder.
  - 3. Closer Body: 1-1/4 inch (32 mm) diameter, with 5/8 inch (16 mm) diameter heat-treated pinion journal.
  - 4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
  - Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards. OPTION LCN No Substitute: Cylinder body to have "FAST" power adjust speed dial to visually indicate spring power.
  - 6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
  - 7. Pressure Relief Valve (PRV) Technology: not permitted.
  - 8. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

#### 2.10 **DOOR TRIM**

A. Manufacturers:

- 1. Scheduled Manufacturer: Ives
- 2. Acceptable Manufacturers: Burns, Rockwood
- B. Requirements:
  - Provide push plates 4 inches (102 mm) wide by 16 inches (406 mm) high by 0.050 inch (1 mm) thick and beveled 4 edges. Where width of door stile prevents use of 4 inches (102 mm) wide plate, adjust width to fit.
  - 2. Provide push bars of solid bar stock, diameter and length as scheduled. Provide push bars 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 scheduled. 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 (102 mm) wide by 16 inches (406 mm) high by 0.050 inch (1 mm) thick, beveled 4 edges, and prepped for pull. Where width of door stile prevents use of 4 inches (102 mm) wide plate, adjust width to fit.
  - 7. Provide wire pulls of solid bar stock, diameter and length as scheduled.
  - 8. Provide decorative pulls as scheduled. Where required, mount back to back with pull.

#### 2.11 **PROTECTION PLATES**

- A. Manufacturers:
  - 1. Scheduled Manufacturer: lves
  - 2. Acceptable Manufacturers: Burns, Rockwood
- B. Requirements:
  - 1. Provide kick plates, mop plates, and armor plates minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
  - 2. Sizes of plates:
    - a. Kick Plates: 10 inches (254 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs
    - b. Mop Plates: 4 inches (102 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs
    - c. Armor Plates: 36 inches (914 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs

#### 2.12 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

- A. Manufacturers:
  - 1. Scheduled Manufacturers: Glynn-Johnson
  - 2. Acceptable Manufacturers: Rixson, Sargent
- B. Requirements:

- 1. Provide heavy duty concealed mounted overhead stop or holder as specified for exterior and interior vestibule single acting doors.
- 2. Provide heavy duty concealed mounted overhead stop or holder as specified for double acting doors.
- 3. Provide heavy or medium duty and concealed or surface mounted overhead stop or 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 wall, open against equipment, casework, sidelights, and where conditions do not allow wall stop or floor stop presents tripping hazard.
- 4. Where overhead holders are specified provide friction type at doors without closer and positive type at doors with closer.

#### 2.13 DOOR STOPS AND HOLDERS

- A. Manufacturers:
  - 1. Scheduled Manufacturer: lves
  - 2. Acceptable Manufacturers: Burns, Rockwood
- B. Provide door stops at each door leaf:
  - 1. Provide wall stops wherever possible. Provide convex type where mortise type locks are used and concave type where cylindrical type locks are used.
  - 2. Where a wall stop cannot be used, provide universal floor stops for low or high rise options.
  - 3. Where wall or floor stop cannot be used, provide medium duty surface mounted overhead stop.

# 2.14 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

- A. Manufacturers:
  - 1. Scheduled Manufacturer: Zero International
  - 2. Acceptable Manufacturers: National Guard, Reese
- B. Requirements:
  - 1. Provide thresholds, weather-stripping (including door sweeps, seals, and astragals) and gasketing systems (including smoke, sound, and light) as specified and per architectural details. Match finish of other items.
  - 2. Size of thresholds:
    - a. Saddle Thresholds: 1/2 inch (13 mm) high by jamb width by door width
    - b. Bumper Seal Thresholds: 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width
  - 3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.

#### 2.15 SILENCERS

- A. Manufacturers:
  - 1. Scheduled Manufacturer: Ives
  - 2. Acceptable Manufacturers: Burns, Rockwood
- B. Requirements:
  - 1. Provide "push-in" type silencers for hollow metal or wood frames.
  - 2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
  - 3. Omit where gasketing is specified.

#### 2.16 FINISHES

- A. Finish: BHMA 626/652 (US26D); except:
  - 1. Hinges at Exterior Doors: BHMA 630 (US32D)
  - 2. Continuous Hinges: BHMA 630 (US32D)
  - 3. Continuous Hinges: BHMA 628 (US28)
  - 4. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
  - 5. Protection Plates: BHMA 630 (US32D)
  - 6. Overhead Stops and Holders: BHMA 630 (US32D)
  - 7. Door Closers: Powder Coat to Match
  - 8. Wall Stops: BHMA 630 (US32D)
  - 9. Latch Protectors: BHMA 630 (US32D)
  - 10. Weatherstripping: Clear Anodized Aluminum
  - 11. Thresholds: Mill Finish Aluminum

#### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Existing Door and Frame Compatibility: Field verify existing doors and frames receiving new hardware and existing conditions receiving new openings. Verify that new hardware is compatible with existing door and frame preparation and existing conditions.
- C. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 PREPARATION

A. Where on-site modification of doors and frames is required:

- 1. Carefully remove existing door hardware and components being reused. Clean, protect, tag, and store in accordance with storage and handling requirements specified herein.
- 2. Field modify and prepare existing door and frame for new hardware being installed.
- 3. When modifications are exposed to view, use concealed fasteners, when possible.
- 4. Prepare hardware locations and reinstall in accordance with installation requirements for new door hardware and with:
  - a. Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.
  - b. Wood Doors: DHI WDHS.5 "Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors."
  - c. Doors in rated assemblies: NFPA 80 for restrictions on on-site door hardware preparation.

#### 3.3 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
  - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
  - 2. Custom Steel Doors and Frames: HMMA 831.
  - 3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
- C. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- D. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
- E. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- F. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- G. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated or one hinge for every 30 inches (750 mm) of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
- H. Intermediate Offset Pivots: Where offset pivots are indicated, provide intermediate offset pivots in quantities indicated in door hardware schedule but not fewer than one intermediate offset pivot per door and one additional intermediate offset pivot for every 30 inches (750 mm) of door height greater than 90 inches (2286 mm).
- I. Lock Cylinders: Install construction cores to secure building and areas during construction period.
  - 1. Replace construction cores with permanent cores as indicated in keying section.

- J. Lead Protection: Lead wrap hardware penetrating lead-lined doors. Levers and roses to be lead lined. Apply kick and armor plates on lead-lined doors with adhesive as recommended by manufacturer.
- K. Wiring: Coordinate with Division 26, ELECTRICAL sections for:
  - 1. Conduit, junction boxes and wire pulls.
  - 2. Connections to and from power supplies to electrified hardware.
  - 3. Connections to fire/smoke alarm system and smoke evacuation system.
  - 4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
  - 5. Testing and labeling wires with Architect's opening number.
- L. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.
- M. Door Closers: 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.
- N. Closer/Holders: Mount closer/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
- O. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.
  - 1. Configuration: Provide least number of power supplies required to adequately serve doors with electrified door hardware.
- P. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
- Q. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.
- R. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
- S. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- T. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

#### 3.4 FIELD QUALITY CONTROL

- A. Architectural Hardware Consultant: Engage qualified independent Architectural Hardware Consultant to perform inspections and to prepare inspection reports.
  - 1. Architectural Hardware Consultant will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

#### 3.5 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
  - 1. Spring Hinges: Adjust to achieve positive latching when door is allowed to close freely from an open position of 30 degrees.
  - 2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
  - 3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
- B. Occupancy Adjustment: Approximately three months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors, door hardware, and electrified door hardware.

#### 3.6 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

#### 3.7 **DEMONSTRATION**

A. Provide training for Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Refer to Division 01 Section "Demonstration and Training."

#### 3.8 DOOR HARDWARE SCHEDULE

- A. Locksets, exit devices, and other hardware items are referenced in the following hardware sets for series, type and function. Refer to the above-specifications for special features, options, cylinders/keying, and other requirements.
- B. Hardware Sets:

Hardware Group No. 001 For use on Door #(s): 01-15-02A 01-15-03A 01-15-04A 01-15-05A 01-15-06A 01-15-07A Provide each SL door(s) with the following: QTY DESCRIPTION CATALOG NUMBER FINISH MFR 1 ΕA NOTE ADS

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Hardwa	are Grou	ip No. 002						
For use	e on Doc	or #(s):						
01-00	0-02B	01-00-02C	01-00-02	2D	01-00-07A	01-01-00	В	01-01-00C
01-05	5-01B	01-05-01G	01-08-0	1A	01-09-00B	01-09-00	С	01-09-00D
01-09	9-00E	01-13-00A	01-13-0	1A	01-15-01A	01-15-01	В	01-15-01C
01-16	6-01B	02-17-01B	02-17-0 <sup>-</sup>	1C	02-17-01D			
Provide	e each R	U door(s) with the foll	owing:					
QTY		DESCRIPTION	0	CATALO	OG NUMBER		FINISH	MFR
1	EA	NOTE						UNK
·	_, ,							•••••
Hardwa	are Grou	p No. 103						
For use	e on Doc	or #(s):						
01-04	4-04	01-07-03	01-09-16	6	01-09-17	01-12-05		01-12-06
01-15	5-12	01-16-01A	01-16-0	5	01-16-08	01-16-09		01-16-10
01-16	6-12	02-17-39		-				
Provide	e each S	GL door(s) with the fo	llowina:					
OTY	o ouon o	DESCRIPTION	nonnig.	CATAL			FINISH	MFR
3	FΔ	HINGE		5RR1 4	5 X 4 5		626	IVE
1				00014.	0 / 4.0		020	C-R
1			`					
1				WS106/	407001		626	
1				100001/		C AT	020 DV	
I	EA	GASKETING				5 A I	DN	ZER
				INUIN-RA	(IED DOORS)			
Hardwa	are Grou	In No. 1034						
For use		f(s)						
02_17	7_25	02_17_28						
Provide	e each S	GL door(s) with the fo	llowing:					
			nowing.	CATAL			FINISH	MER
2							626	
1			/	JDD14.	J X 4.J		020	
1			<b>\</b>					
1					407001		000	
	EA	WALL STOP		VV5400/	407000		620	IVE
1	EA	SEAL SET						UNK
Hordun	oro Crou	In No. 102W						
For use	are Grou	$r = \frac{1}{2}$						
		// #(5). 01 00 15	01 11 0	2	01 11 04	01 11 07		
Drovide	0-14 2 0 0 0 0 0	CL door(s) with the fe	UI-II-U	5	01-11-04	01-11-07		
	e each o		nowing.	CATAL			гілісц	
QII	<b>-</b> ^							
3	EA		,	SPRI 2	A 4.0		020	
1	EA		1					C-R
1	EA				(1700) (			C-R
1	EA	WALL STOP		WS406/	407CCV		626	IVE
1	EA	GASKETING		188SBK	(USE SILENCER	S AT	BK	ZER
				NON-RA	ATED DOORS)			

Hardwa For use 01-09	are Grou e on Doo 9-07	p No. 201 r #(s): 01-11-05			
	e each o				
3	E٨	HINGE	5BB1 4 5 Y 4 5	626	
1		STOREROOM	CL 3557 IC6 NZD W/ CT6	626	
1			CE3337 100 112D W/ C10	020	C-R
1	ΕA	SURFACE CLOSER	4040XP REG OR PA AS REO	689	
1	FA		8400 10" X 1" LDW B-CS	626	IVE
1	FA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	188SBK (USE SILENCERS AT	BK	ZER
			NON-RATED DOORS)		
Hardwa	are Grou	p No. 201W			
For use	e on Doo	r #(s):	_		
01-08	3-03	01-09-14 01-13-0	6		
Provide	e each S	GL door(s) with the following:			
		DESCRIPTION		FINISH	
3				020 626	
1			CE3557 100 NZD W/ C10	020	
1				680	
1	ΕA		8400 10" X 1" LDW B-CS	626	
1	FA	WALL STOP	WS406/407CCV	626	IVE
1	FA	GASKETING	188SBK (USE SILENCERS AT	BK	ZER
·	2/ (		NON-RATED DOORS)	BR	
Hardwa	are Grou	p No. 207			
For use	e on Doo	r #(s):			
01-07	7-10				
Provide	e each S	GL door(s) with the following:			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	626	IVE
1	EA	STOREROOM	CL3557 IC6 NZD W/ C16	626	C-R
1	EA			000	C-R
1	EA			630 680	GLY
1				009 626	
ו 1	EΑ EΔ			020 RK	
	LA		NON-RATED DOORS)		

Hardw For us 01-0	are Grou e on Doc 4-02	ip No. 207W or #(s):						
Provid	e each S	GL door(s) with the f	ollowing:					
QTY		DESCRIPTION		CATALC	OG NUMBER		FINISH	MFR
3	EA	HINGE		5BB1 52	X 4.5		626	IVE
1	EA	STOREROOM		CL3557	IC6 NZD W/ C	Т6	626	C-R
1	EA	CYLINDER						C-R
1	EA	OH STOP		100S AE	J		630	GLY
1	EA	SURFACE CLOSEF	र	4040XP	REG OR PA A	S REQ	689	LCN
1	EA	KICK PLATE		8400 10	" X 1" LDW B-C	S	626	IVE
1	EA	GASKETING		188SBK NON-RA	(USE SILENC (USE DOORS)	ERS AT	BK	ZER
Hardw For us	are Grou e on Doc	ip No. 301 or #(s):	04 00 0		04.00.05	04 00 00		04 00 07
01-0	2-02	01-02-03	01-02-0	4	01-02-05	01-02-06		01-02-07
01-1 Drovid	5-09 5-09	01-16-03	02-17-0	5	02-17-06	02-17-32		02-17-33
	e each S		bilowing:	0 A T A L C				
		DESCRIPTION					FINISH	
3	EA						020	
1	EA		n n				<u> </u>	
1	EA		۲	4040XP			606	
1				0400 10		20	020	
1	EA			VV5400/4			020 DK	
1	EA	GASKETING		NON-RA	ATED DOORS)	ERSAI	BK	ZER
Hardw	are Grou	ip No. 301W						
01_0	0-07	01_07_05	01-07-0	6	01-08-04	01_09_00	3	01_11_01
01-0	1_02	01-07-03	07-07-0	2	07-00-04	01-03-00	0	01-11-01
Provid	e each S	GL door(s) with the f	oz-17-0	2	02-17-03			
OTY	o ouon o		snowing.	CATALO			FINISH	MFR
3	FA	HINGE		5BB1 5	X 4 5		626	IVE
1	EA		ĸ	CI 3520	NZD		020	C-R
1	FA	SURFACE CLOSE	2	4040XP	REG OR PA A	S REO	689	
1	FA	KICK PI ATE	•	8400 10	" X 1" I DW R_(	S	626	IVE
1	ΕΛ	WALL STOP		WS406/			626	IVE
1	ΕΛ	GASKETING		188SBK	(USE SILENC	FRS AT	BK	7FR
I				NON-RA	ATED DOORS)			

Hardwa For use	are Grou e on Doo	p No. 403SW r #(s):						
01-13	3-05							
Provide	e each S	GL door(s) with the fo	llowina:					
QTY		DESCRIPTION	5	CATALC	OG NUMBER		FINISH	MFR
3	EA	HINGE		5BB1 5 2	X 4.5		626	IVE
1	EA	PASSAGE/CLOSET		CL3510	NZD		626	C-R
1	EA	OH STOP		100S AE	)]		630	GLY
1	EA	GASKETING		188SBK	(USE SILENCER	S AT	BK	ZER
				NON-RA	TED DOORS)			
Hardwa	are Grou	p No. 403W						
For use	e on Doo	r #(s):						
01-07	7-07	01-07-08	01-07-0	9	01-07-11	01-08-05		01-09-04
01-09	9-05	01-09-06	01-09-1	1	01-10-02	01-10-03		01-10-04
01-10	)-05B	01-10-06B	01-10-0	7	01-10-08	01-10-09		01-12-01
01-12	2-02	01-12-03						
Provide	e each S	GL door(s) with the fo	llowing:					
QTY		DESCRIPTION		CATALC	DG NUMBER		FINISH	MFR
3	EA	HINGE		5BB1 52	X 4.5		626	IVE
1	EA	PASSAGE/CLOSET		CL3510	NZD		626	C-R
1	EA	WALL STOP		WS406/4	407CCV	- · -	626	IVE
1	EA	GASKETING		188SBK		SAI	BK	ZER
				NON-RA	(TED DOORS)			
Hardwa	are Grou	p No. 501						
For use	e on Doo	r #(s):						
01-02	2-01	01-02-08A	01-02-0	8B	01-05-01A	01-06-01		01-07-12
01-09	9-12	01-09-13	01-09-1	5	01-13-00B	01-13-12		01-14-04A
01-14	1-04B	01-16-02	01-16-0	6A	01-16-06B	01-16-07	A	02-17-04A
02-17	7-04B	02-17-24	02-19-0	1B				
Provide	e each S	GL door(s) with the fo	llowing:					
QTY		DESCRIPTION		CATALC	OG NUMBER		FINISH	MFR
3	EA	HINGE		5BB1 4.	5 X 4.5		626	IVE
1	EA	CYLINDRICAL LOCH	<					C-R
1	EA	CYLINDER						C-R
1	EA	SURFACE CLOSER		4040XP	REG OR PA AS F	REQ	689	LCN
1	EA	KICK PLATE		8400 10	" X 1" LDW B-CS		626	IVE
1	EA	WALL STOP		WS406/4	407CCV		626	IVE
1	EA	GASKETING		188SBK	(USE SILENCER	SAT	BK	ZER
				NON-RA	(IED DOORS)			

Hardw For us 02-1	/are Gro se on Do 7-26	up No. 501A or #(s):					
Provid	le each S	SGL door(s) with the following:					
OTY	/	DESCRIPTION	CATALOG NUMBER	FINISH	MFR		
3	FΔ	HINGE	5BB1 4 5 X 4 5	626	IVE		
1			0001 4.0 / 4.0	020			
1							
1				680			
1				606			
1			VVS400/407CCV	020			
I	EA	SEAL SET			UNK		
Hardw	/are Gro	up No. 501W					
For us	e on Do	or #(s):					
01-0	4-05	01-04-06 01-04-0	01-10-00 01-11-08	3			
Provid	le each S	SGL door(s) with the following:					
QTY	/	DESCRIPTION	CATALOG NUMBER	FINISH	MFR		
3	EA	HINGE	5BB1 5 X 4.5	626	IVE		
1	EA	CYLINDRICAL LOCK			C-R		
1	EA	CYLINDER			C-R		
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN		
1	EA	KICK PLATE	8400 10" X 1" LDW B-CS	626	IVE		
1	EA	WALL STOP	WS406/407CCV	626	IVE		
1	FA	GASKETING	188SBK (USE SILENCERS AT	BK	7FR		
-			NON-RATED DOORS)				
المعطي							
Forus	are Gro	$up \ No. \ 503$					
02.1		or #(s).					
DZ-1 Provid	7-30 Ia aach 9	SGL door(s) with the following:					
				EINIQU	MED		
2				626			
1			56614.5 X 4.5	020			
1							
1				606			
1				020 DV			
I	EA	GASKETING	NON-RATED DOORS)	BK	ZER		
			NON-IVATED DOORS)				
Hardw	are Gro	up No. 503W					
For us	se on Do	or #(s):					
01-0	)1-01A	01-01-02A 01-01-0	3A 01-01-04A				
Provid	le each S	SGL door(s) with the following:					
QTY	/	DESCRIPTION	CATALOG NUMBER	FINISH	MFR		
3	EA	HINGE	5BB1 5 X 4.5	626	IVE		
1	EA	CYLINDRICAL LOCK			C-R		
1	EA	CYLINDER			C-R		
1	EA	WALL STOP	TOP WS406/407CCV 62				
1	EA	GASKETING	188SBK (USE SILENCERS AT	BK	ZER		
			NON-RATED DOORS)				

Hardw	are Gro	oup No. 507			
		JOI #(S).			
Drovid	0-00	SCI door(a) with the following:			
	e each				
QII	Γ.	DESCRIPTION			
3	EA	HINGE	5BB1 4.5 X 4.5	626	IVE
1	EA				C-R
1	EA	CYLINDER			C-R
1	EA	OH STOP	100S ADJ	630	GLY
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	KICK PLATE	8400 10" X 1" LDW B-CS	626	IVE
1	EA	GASKETING	188SBK (USE SILENCERS AT NON-RATED DOORS)	BK	ZER
Hardw	are Gro	oup No. 603W			
For us	e on Do	oor #(s):			
01-0	8-16				
Provid	e each	SGL door(s) with the following:			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 HT 5 X 4.5	652	IVE
1	EA	PUSH/PULL LATCH	HL6 5" A (MOUNT/WITH HANDLES POINTING DOWNWARD)	626	SCH
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	188SBK (USE SILENCERS AT NON-RATED DOORS)	BK	ZER
Hardw	are Gro	oup No. 700M			
For us	e on Do	oor #(s):			
01-1	4-01A	01-14-02A			
Provid	e each	PR door(s) with the following:			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224HD	628	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	FA	PANIC HARDWARE	99-1 -06	626	VON
1	FA	PANIC HARDWARE	99-L-DT-06	626	VON
2	FA		00 2 2 1 00	020	C-R
1	EA	CYLINDER			C-R
1	FA	CYLINDER			C-R
2	EA	SURFACE CLOSER	4040XP REG OR PA AS REO	689	
2	E/		8400 10" X 1" I DW B-CS	626	
2	EA	WALL STOP	WS406/407CCV	626	IVE
1	ΕΔ	GASKETING	188SBK (LISE SILENCERS AT	BK	7FR
I			NON-RATED DOORS)		

Hardwa For use	are Grou e on Doo	p No. 701 r #(s):	_		
01-07	-02A	01-11-00B $02-19-0$	/		
Provide	e each S	GL door(s) with the following:			
QIY	<b>-</b> ^	DESCRIPTION		FINISH	
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	PANIC HARDWARE	99-L-06	626	VON
1	EA	CYLINDER			C-R
1	EA	CYLINDER			C-R
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	626	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	188SBK (USE SILENCERS AT NON-RATED DOORS)	BK	ZER
Hardwa	are Grou	p No. 711			
For use	e on Doo	r #(s):			
02-18	8-00				
Provide	e each S	GL door(s) with the following:			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	PANIC HARDWARE	99-L-NL-06	643E	VON
1	EA	CYLINDER			C-R
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	626	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	188SBK (USE SILENCERS AT NON-RATED DOORS)	BK	ZER
Hardwa	are Grou	n No. 731CR			
For use	e on Doo	F(s)			
01-14	-03				
Provide	each S	GL door(s) with the following:			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	FIRE EXIT HARDWARE	99-L-BE-F-06	626	VON
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

Hardwa For use	are Grou e on Doc	ıp No. 731R or #(s) <sup>.</sup>						
01-00	)-10A	01-19-06A						
Provide	each S	GL door(s) with the fo	llowina:					
QTY		DESCRIPTION	5	CATAL	OG NUMBER		FINISH	MFR
1	EA	CONT. HINGE		224HD			628	IVE
1	EA	FIRE EXIT HARDWA	ARE	99-L-BE	-F-06		626	VON
1	EA	SURFACE CLOSER		4040XP	REG OR PA AS	REQ	689	LCN
1	EA	KICK PLATE		8400 10	" X 2" LDW B-CS	5	626	IVE
1	FA	WALL STOP		WS406/	407CCV	-	626	IVE
1	EA	GASKETING		188SBK	(PSA		BK	ZER
Hardwa	are Grou	ıp No. 800AV						
For use	on Doc	or #(s):						
01-00	)-00B							
Provide	e each P	R door(s) with the follo	owing:					
QTY		DESCRIPTION		CATAL	OG NUMBER		FINISH	MFR
2	EA	CONT. HINGE		224HD			628	IVE
2	EA	DUMMY PUSH BAR		330			626	VON
2	EA	90 DEG OFFSET PL	JLL	8190HD	) 10" A		630	IVE
2	EA	SURFACE CLOSER		4040XP	SCUSH		689	LCN
1	EA	SEAL SET						UNK
1	EA	ASTRAGAL						UNK
Hardwa	are Grou	ıp No. 801L						
For use	e on Doc	or #(s):						
1 01 000								
02-17	7-10A	02-17-10B	02-17-1	1A	02-17-11B	02-17-35	A	02-17-35B
02-17 02-17	7-10A 7-40	02-17-10B 02-17-48A	02-17-1 02-17-4	1A 8B	02-17-11B 02-17-49A	02-17-35 02-17-49	A B	02-17-35B
02-17 02-17 Provide	7-10A 7-40 e each S	02-17-10B 02-17-48A GCL door(s) with the fol	02-17-1 02-17-4 llowing:	1A 8B	02-17-11B 02-17-49A	02-17-35 02-17-49	A B	02-17-35B
02-17 02-17 Provide QTY	7-10A 7-40 e each S	02-17-10B 02-17-48A GL door(s) with the fol DESCRIPTION	02-17-1 02-17-4 llowing:	1A 8B CATALO	02-17-11B 02-17-49A OG NUMBER	02-17-35 02-17-49	A B FINISH	02-17-35B MFR
02-17 02-17 Provide QTY 1	7-10A 7-40 e each S EA	02-17-10B 02-17-48A GL door(s) with the fo DESCRIPTION CONT. HINGE	02-17-1 02-17-4 llowing:	1A 8B CATALO 224HD	02-17-11B 02-17-49A OG NUMBER	02-17-35 02-17-49	A B FINISH 628	02-17-35B MFR IVE
02-17 02-17 Provide QTY 1 1	7-10A 7-40 e each S EA EA	02-17-10B 02-17-48A GL door(s) with the fo DESCRIPTION CONT. HINGE DEADBOLT	02-17-1 02-17-4 llowing:	1A 8B CATALO 224HD	02-17-11B 02-17-49A OG NUMBER	02-17-35 02-17-49	A B FINISH 628	02-17-35B MFR IVE C-R
02-17 02-17 Provide QTY 1 1	2-10A 2-40 e each S EA EA EA	02-17-10B 02-17-48A GL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER	02-17-1 02-17-4 llowing:	1A 8B CATALO 224HD	02-17-11B 02-17-49A OG NUMBER	02-17-35 02-17-49	A B FINISH 628	02-17-35B MFR IVE C-R C-R C-R
02-17 02-17 Provide QTY 1 1 1	2-10A 2-40 e each S EA EA EA EA	02-17-10B 02-17-48A GL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE	02-17-1 02-17-4 llowing:	1A 8B CATALO 224HD 8200 4"	02-17-11B 02-17-49A OG NUMBER X 16"	02-17-35 02-17-49	A B FINISH 628 630	02-17-35B MFR IVE C-R C-R IVE
02-17 02-17 Provide QTY 1 1 1 1 1	2-10A 2-40 e each S EA EA EA EA EA	02-17-10B 02-17-48A GL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE	02-17-1 02-17-4 llowing:	1A 8B CATALO 224HD 8200 4" 8302 10	02-17-11B 02-17-49A OG NUMBER X 16" " 4" X 16"	02-17-35 02-17-49	A B FINISH 628 630 630	02-17-35B MFR IVE C-R C-R IVE IVE
02-17 02-17 Provide QTY 1 1 1 1 1 1	2-10A 2-40 EA EA EA EA EA EA EA	02-17-10B 02-17-48A GL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE SURFACE CLOSER	02-17-1 02-17-4 llowing:	1A 8B CATALO 224HD 8200 4" 8302 10 4040XP	02-17-11B 02-17-49A OG NUMBER X 16" Y 4" X 16" REG OR PA AS	02-17-35 02-17-49	A B FINISH 628 630 630 689	02-17-35B MFR IVE C-R C-R IVE IVE LCN
02-17 02-17 Provide QTY 1 1 1 1 1 1 1 1	EA EA EA EA EA EA EA EA EA EA EA	02-17-10B 02-17-48A GL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE SURFACE CLOSER KICK PLATE	02-17-1 02-17-4 llowing:	1A 8B CATALO 224HD 8200 4" 8302 10 4040XP 8400 10	02-17-11B 02-17-49A OG NUMBER X 16" " 4" X 16" P REG OR PA AS " X 2" LDW B-CS	02-17-35 02-17-49 8 REQ	A B FINISH 628 630 630 630 689 626	02-17-35B MFR IVE C-R C-R IVE IVE IVE IVE IVE
02-17 02-17 Provide QTY 1 1 1 1 1 1 1 1 1 1	Z-10A Z-40 EA EA EA EA EA EA EA EA EA	02-17-10B 02-17-48A GL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE SURFACE CLOSER KICK PLATE WALL STOP	02-17-1 02-17-4 llowing:	1A 8B CATALO 224HD 8200 4" 8302 10 4040XP 8400 10 WS406/	02-17-11B 02-17-49A OG NUMBER X 16" 9" 4" X 16" 9 REG OR PA AS 9" X 2" LDW B-CS 407CCV	02-17-35 02-17-49 5 REQ 5	A B FINISH 628 630 630 630 689 626 626	02-17-35B MFR IVE C-R C-R IVE IVE LCN IVE IVE IVE
02-17 02-17 Provide QTY 1 1 1 1 1 1 1 1 1 1 1	Z-10A Z-40 EA EA EA EA EA EA EA EA EA EA	02-17-10B 02-17-48A GL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE SURFACE CLOSER KICK PLATE WALL STOP GASKETING	02-17-1 02-17-4 llowing:	1A 8B CATAL( 224HD 8200 4" 8302 10 4040XP 8400 10 WS406/ 188SBK NON-R/	02-17-11B 02-17-49A OG NUMBER X 16" " 4" X 16" REG OR PA AS " X 2" LDW B-CS 407CCV ( USE SILENCE ATED DOORS)	02-17-35 02-17-49 5 REQ 5 RS AT	A B FINISH 628 630 630 630 626 626 BK	02-17-35B MFR IVE C-R IVE IVE IVE IVE IVE ZER
02-17 02-17 Provide QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2-10A 2-40 EA EA EA EA EA EA EA EA EA EA	02-17-10B 02-17-48A GCL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE SURFACE CLOSER KICK PLATE WALL STOP GASKETING	02-17-1 02-17-4 llowing:	1A 8B CATAL( 224HD 8200 4" 8302 10 4040XP 8400 10 WS406/ 188SBK NON-R/	02-17-11B 02-17-49A OG NUMBER X 16" Y 4" X 16" REG OR PA AS Y 2" LDW B-CS 407CCV (USE SILENCE ATED DOORS)	02-17-35 02-17-49 5 REQ 5 RS AT	A B FINISH 628 630 630 630 689 626 626 BK	02-17-35B MFR IVE C-R IVE IVE LCN IVE IVE ZER
02-17 02-17 Provide QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 5 0 4 0 2-17 Provide QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2-10A 2-40 e each S EA EA EA EA EA EA EA EA EA	02-17-10B 02-17-48A GCL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE SURFACE CLOSER KICK PLATE WALL STOP GASKETING	02-17-1 02-17-4 llowing:	1A 8B CATALO 224HD 8200 4" 8302 10 4040XP 8400 10 WS406/ 188SBK NON-R/	02-17-11B 02-17-49A OG NUMBER X 16" Y 4" X 16" REG OR PA AS Y X 2" LDW B-CS 407CCV (USE SILENCE ATED DOORS)	02-17-35 02-17-49 5 REQ 5 RS AT	A B FINISH 628 630 630 630 626 626 BK	02-17-35B MFR IVE C-R IVE IVE IVE IVE ZER
02-17 02-17 Provide QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 5 0 1-15	2-10A 2-40 e each S EA EA EA EA EA EA EA EA EA EA EA	02-17-10B 02-17-48A GGL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE SURFACE CLOSER KICK PLATE WALL STOP GASKETING up No. C001 or #(s): 01-15-03B	02-17-1 02-17-4 llowing: 01-15-0	1A 8B CATALO 224HD 8200 4" 8302 10 4040XP 8400 10 WS406/ 188SBK NON-R/ 4B	02-17-11B 02-17-49A OG NUMBER X 16" Y 4" X 16" REG OR PA AS Y X 2" LDW B-CS 407CCV (USE SILENCE ATED DOORS)	02-17-35 02-17-49 REQ S RS AT 01-15-06	A B FINISH 628 630 630 630 626 626 BK BK	02-17-35B MFR IVE C-R IVE IVE IVE IVE ZER 01-15-07B
02-17 02-17 Provide QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 5 ror use 01-15 Provide	2-10A 2-40 EA EA EA EA EA EA EA EA EA EA EA EA EA	02-17-10B 02-17-48A GL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE SURFACE CLOSER KICK PLATE WALL STOP GASKETING up No. C001 or #(s): 01-15-03B GL door(s) with the follo	02-17-1 02-17-4 llowing: 01-15-0 owing:	1A 8B CATALO 224HD 8200 4" 8302 10 4040XP 8400 10 WS406/ 188SBK NON-R/ 4B	02-17-11B 02-17-49A OG NUMBER X 16" " 4" X 16" " REG OR PA AS " X 2" LDW B-CS (407CCV ( USE SILENCE ATED DOORS) 01-15-05B	02-17-35 02-17-49 REQ S RS AT 01-15-06	A B FINISH 628 630 630 630 626 626 626 BK	02-17-35B MFR IVE C-R IVE IVE LCN IVE IVE ZER 01-15-07B
02-17 02-17 Provide QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2-10A 2-40 EA EA EA EA EA EA EA EA EA EA EA EA EA	02-17-10B 02-17-48A GL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE SURFACE CLOSER KICK PLATE WALL STOP GASKETING up No. C001 or #(s): 01-15-03B GL door(s) with the folloc DESCRIPTION	02-17-1 02-17-4 llowing: 01-15-0 wing:	1A 8B CATALO 224HD 8200 4" 8302 10 4040XP 8400 10 WS406/ 188SBk NON-R/ 4B CATALO	02-17-11B 02-17-49A OG NUMBER X 16" Y 4" X 16" REG OR PA AS Y 2" LDW B-CS 407CCV (USE SILENCE ATED DOORS) 01-15-05B OG NUMBER	02-17-35 02-17-49 REQ S RS AT 01-15-06	A B FINISH 628 630 630 630 630 626 626 BK B K	02-17-35B MFR IVE C-R IVE IVE LCN IVE IVE ZER 01-15-07B MFR
02-17 02-17 Provide QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2-10A 2-40 e each S EA EA EA EA EA EA EA EA EA EA EA EA EA	02-17-10B 02-17-48A GCL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE SURFACE CLOSER KICK PLATE WALL STOP GASKETING up No. C001 or #(s): 01-15-03B GL door(s) with the follo DESCRIPTION MULTITECH READE	02-17-1 02-17-4 llowing: 01-15-0 owing: ER	1A 8B CATALC 224HD 8200 4" 8302 10 4040XP 8400 10 WS406/ 188SBK NON-R/ 4B CATALC MT15 12	02-17-11B 02-17-49A OG NUMBER X 16" Y 4" X 16" REG OR PA AS Y 2" LDW B-CS 407CCV (USE SILENCE ATED DOORS) 01-15-05B OG NUMBER 2 VDC	02-17-35 02-17-49 5 REQ 5 RS AT 01-15-06	A B FINISH 628 630 630 630 626 626 BK B FINISH BLK	02-17-35B MFR IVE C-R IVE IVE LCN IVE ZER 01-15-07B MFR SCE
02-17 02-17 Provide QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2-10A 2-40 e each S EA EA EA EA EA EA EA EA EA EA EA EA EA	02-17-10B 02-17-48A GCL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE SURFACE CLOSER KICK PLATE WALL STOP GASKETING UNDER WALL STOP GASKETING UNDER	02-17-1 02-17-4 llowing: 01-15-0 owing: ER	1A 8B CATALC 224HD 8200 4" 8302 10 4040XP 8400 10 WS406/ 188SBK NON-R/ 4B CATALC MT15 12 679-05	02-17-11B 02-17-49A OG NUMBER X 16" Y 4" X 16" REG OR PA AS Y 2" LDW B-CS 407CCV (USE SILENCE ATED DOORS) 01-15-05B OG NUMBER 2 VDC	02-17-35 02-17-49 5 REQ 5 RS AT 01-15-06	A B FINISH 628 630 630 630 626 626 BK B FINISH BLK WHT	02-17-35B MFR IVE C-R IVE IVE LCN IVE ZER 01-15-07B MFR SCE SCE
02-17 02-17 Provide QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-10A -40 each S EA EA EA EA EA EA EA EA EA EA EA EA EA	02-17-10B 02-17-48A GGL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE SURFACE CLOSER KICK PLATE WALL STOP GASKETING UP No. C001 or #(s): 01-15-03B SL door(s) with the follo DESCRIPTION MULTITECH READE DOOR CONTACT POWER SUPPLY	02-17-1 02-17-4 llowing: 01-15-0 owing: ER	1A 8B CATALC 224HD 8200 4" 8302 10 4040XP 8400 10 WS406/ 188SBK NON-R/ 4B CATALC MT15 12 679-05	02-17-11B 02-17-49A OG NUMBER X 16" Y 4" X 16" REG OR PA AS Y 2" LDW B-CS 407CCV (USE SILENCE ATED DOORS) 01-15-05B OG NUMBER 2 VDC	02-17-35 02-17-49 5 REQ 5 RS AT 01-15-06	A B FINISH 628 630 630 630 626 626 BK B FINISH BLK WHT	02-17-35B MFR IVE C-R IVE IVE LCN IVE IVE ZER 01-15-07B MFR SCE SCE UNK
02-17 02-17 Provide QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 5 Provide QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2-10A 2-40 e each S EA EA EA EA EA EA EA EA EA EA EA EA EA	02-17-10B 02-17-48A GL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE SURFACE CLOSER KICK PLATE WALL STOP GASKETING UP No. C001 or #(s): 01-15-03B L door(s) with the follo DESCRIPTION MULTITECH READE DOOR CONTACT POWER SUPPLY NOTE	02-17-1 02-17-4 llowing: 01-15-0 owing: ER	1A 8B CATALO 224HD 8200 4" 8302 10 4040XP 8400 10 WS406/ 188SBk NON-R/ 4B CATALO MT15 12 679-05	02-17-11B 02-17-49A OG NUMBER X 16" P REG OR PA AS W X 2" LDW B-CS 407CCV (USE SILENCE ATED DOORS) 01-15-05B OG NUMBER 2 VDC	02-17-35 02-17-49 REQ RS AT 01-15-06	A B FINISH 628 630 630 630 626 626 626 BK B FINISH BLK WHT	02-17-35B MFR IVE C-R IVE IVE LCN IVE IVE ZER 01-15-07B MFR SCE SCE UNK ADS
02-17 02-17 Provide QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 5 07 1 5 Provide QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-10A -40 each S EA EA EA EA EA EA EA EA EA EA EA EA EA	02-17-10B 02-17-48A GL door(s) with the fol DESCRIPTION CONT. HINGE DEADBOLT CYLINDER PUSH PLATE PULL PLATE SURFACE CLOSER KICK PLATE WALL STOP GASKETING IP No. C001 or #(s): 01-15-03B GL door(s) with the follo DESCRIPTION MULTITECH READE DOOR CONTACT POWER SUPPLY NOTE	02-17-1 02-17-4 llowing: 01-15-0 wing:	1A 8B CATALO 224HD 8200 4" 8302 10 4040XP 8400 10 WS406/ 188SBK NON-R/ 4B CATALO MT15 12 679-05	02-17-11B 02-17-49A OG NUMBER X 16" " 4" X 16" REG OR PA AS " X 2" LDW B-CS 407CCV ( USE SILENCE ATED DOORS) 01-15-05B OG NUMBER 2 VDC	02-17-35 02-17-49 5 REQ 5 RS AT 01-15-06	A B FINISH 628 630 630 630 626 626 BK B FINISH BLK WHT	02-17-35B MFR IVE C-R IVE IVE LCN IVE ZER 01-15-07B MFR SCE SCE UNK ADS

18-01.01 WPMHC Expansion Childers Architect 2020-02-14

087100-28

Hardwa For use	are Grou	p No. C201 or #(s):						
01_00	-09	01-01-01B	01-01-0	2B	01-01-03B	01-01-04	B	01-01-05
01-01	-06	01-01-07	01-01-08	8	01-01-09	01-01-10	0	01-05-02
01-05	-04	01-05-05	01-06-0	2	01-07-01	01-08-01	B	01-08-11
01-08	-12	01-08-13	01_10_1	0	01_10_11	01-11-06	D	01-12-00
01-00	2_04	01-13-07	01-10-10	n	01-10-11	01-11-00		01-12-00
01-12	_11R	01-15-17	01_16_0	1	07-05-10	02_05_11		07-05-17
07-17	-ΠΙΔ '-01Δ	07-17-08	07-17-0	т О	02-03-10	02-03-11		02-03-12 02-17-34Δ
02-17	-01A 24B	02-17-00	02-17-03	8	02-17-29	02-17-30		02-17-344
Provide	each S	GL door(s) with the foll	lowina:	0	02-13-21			
OTV			owing.				FINISH	MER
3	FΔ			5881 /	5 X / 5		626	
1				EPT10 (			680	
1						1	626	SCH
I	LA			12\//24\/		•	020	0011
1	FΔ			120/240	20			C-R
1	FA	SURFACE CLOSER		4040XP	REG OR PA AS F	REO	689	
1	FΔ			8400 10			626	
1	FA	WALL STOP		WS406/	407CCV		626	IVE
1	ΕA			188SBK		ς Δτ	020 BK	
I	LA	OAGINE HING		NON-RA	TED DOORS)		DIX	
1	FA	MULTITECH READE	R	MT15 12			BLK	SCE
1	FA	DOOR CONTACT		679-05			WHT	SCE
1	FA	POWER SUPPLY		010 00				UNK
1	FA	POWER SUPPLY						
	L/(	I OWER OUT ET						ONIX
Hardwa	are Grou	p No. C201C						
For use	on Doo	, or #(s):						
01-01	-00A							
Provide	each S	GL door(s) with the foll	lowing:					
QTY		DESCRIPTION		CATALC	OG NUMBER		FINISH	MFR
3	EA	HINGE		5BB1 4.	5 X 4.5		626	IVE
1	EA	POWER TRANSFER		EPT10 C	CON		689	VON
1	EA	EU STOREROOM LO	ОСК	ND80TD	EU RHO RX CON	l	626	SCH
				12V/24V	' DC			
1	EA	CYLINDER						C-R
1	EA	SURFACE CLOSER		4040XP	SCUSH		689	LCN
1	EA	KICK PLATE		8400 10	" X 2" LDW B-CS		626	IVE
1	EA	GASKETING		188SBK	(USE SILENCER	S AT	BK	ZER
				NON-RA	TED DOORS)			
1	EA	MULTITECH READE	R	MT15 12	2 VDC		BLK	SCE
1	EA	DOOR CONTACT		679-05			WHT	SCE
1	EA	POWER SUPPLY						UNK
1	EA	POWER SUPPLY						UNK

Hardwa	are Grou	ip No. C201W						
For use	e on Doc	or #(s):						
01-04	4-03	01-05-03	01-07-02	2B	01-07-02C	01-08-02		01-08-07
01-08	8-08	01-08-09	01-08-10	0	01-13-04	02-17-07		
Provide	e each S	GL door(s) with the foll	owing:					
QTY		DESCRIPTION		CATALC	DG NUMBER		FINISH	MFR
3	EA	HINGE		5BB1 5 2	X 4.5		626	IVE
1	EA	POWER TRANSFER		EPT10 C	CON		689	VON
1	EA	EU STOREROOM LO	OCK	ND80TD 12V/24V	EU RHO RX COI ' DC	N	626	SCH
1	EA	CYLINDER						C-R
1	EA	SURFACE CLOSER		4040XP	REG OR PA AS	REQ	689	LCN
1	EA	KICK PLATE		8400 10	" X 2" LDW B-CS		626	IVE
1	EA	WALL STOP		WS406/4	407CCV		626	IVE
1	EA	GASKETING		188SBK NON-RA	(USE SILENCER ATED DOORS)	RS AT	BK	ZER
1	EA	MULTITECH READER	R	MT15 12	2 VDC		BLK	SCE
1	EA	DOOR CONTACT		679-05			WHT	SCE
1	EA	POWER SUPPLY						UNK
1	EA	POWER SUPPLY						UNK
Hardwa	are Grou	p No. C205						
For use	e on Doc	, or #(s):						
03-19	9-01	. ,						
Provide	e each S	GL door(s) with the foll	owing:					
QTY		DESCRIPTION		CATALC	OG NUMBER		FINISH	MFR
3	EA	HINGE		5BB1 4.	5 X 4.5		626	IVE
1	EA	POWER TRANSFER		EPT10 C	CON		689	VON
1	EA	EU STOREROOM LC	CK	ND80TD 12V/24V	EU RHO RX COI ' DC	Ν	626	SCH
1	EA	CYLINDER						C-R
1	EA	SURFACE CLOSER		4040XP	SCUSH		689	LCN
1	EA	KICK PLATE		8400 10	" X 2" LDW B-CS		626	IVE
1	EA	RAIN DRIP		142AA			AA	ZER
1	EA	GASKETING		328AA-S	6		AA	ZER
1	EA	DOOR SWEEP		39A			Α	ZER
1	EA	THRESHOLD		65A-223	i		Α	ZER
1	EA	MULTITECH READER	R	MT15 12	2 VDC		BLK	SCE
1	EA	DOOR CONTACT		679-05			WHT	SCE
1	EA	POWER SUPPLY						UNK
1	EA	POWER SUPPLY						UNK

Hardware Group No. C205I

For use on Door #(s):

01-04-01

Provide each SGL door(s) with the following:

FIUNC	le each	30L 000(3) with the following.			
QT	(	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	626	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	EU STOREROOM LOCK	ND80TDEU RHO RX CON 12V/24V DC	626	SCH
1	EA	CYLINDER			C-R
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	626	IVE
1	EA	RAIN DRIP	142AA	AA	ZER
1	EA	GASKETING	328AA-S	AA	ZER
1	EA	DOOR SWEEP	39A	А	ZER
1	EA	THRESHOLD	655A-223	A	ZER
1	EA	MULTITECH READER	MT15 12 VDC	BLK	SCE
1	EA	DOOR CONTACT	679-05	WHT	SCE
1	EA	POWER SUPPLY			UNK
1	EA	POWER SUPPLY			UNK
Hardv	vare Gro	oup No. C207			
For us	se on Do	oor #(s):			
_ 01-0	0-02A	01-09-00A 02-19-	02B		
Provid	le each	SGL door(s) with the following:			
QI	·	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	626	IVE
1	EA	POWER TRANSFER	EPI10 CON	689	VON
1	EA	EU STOREROOM LOCK	ND80TDEU RHO RX CON 12V/24V DC	626	SCH
1	EA	CYLINDER			C-R
1	EA	OH STOP	100S ADJ	630	GLY
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	626	IVE
1	EA	GASKETING	188SBK (USE SILENCERS AT NON-RATED DOORS)	BK	ZER
1	EA	MULTITECH READER	MT15 12 VDC	BLK	SCE
1	EA	DOOR CONTACT	679-05	WHT	SCE
1	EA	POWER SUPPLY			UNK

1

EA

POWER SUPPLY

UNK

Hardwa	re Grou	p No. C711						
For use	on Doo	r #(s):						
01-07	-14	01-08-00A	01-08-0	0B	01-09-01A	01-09-01	В	01-11-00A
01-11	-00C	01-13-01	01-16-1	1	02-19-01A			
Provide	each S	GL door(s) with the fo	llowing:					
QTY		DESCRIPTION		CATALC	OG NUMBER		FINISH	MFR
1	EA	CONT. HINGE		224HD E	EPT		628	IVE
1	EA	POWER TRANSFER	R	EPT10 C	CON		689	VON
1	EA	ELEC PANIC HARD	WARE	RX-QEL	-99-L-NL-06-COI	V 24 VDC	626	VON
1	EA	CYLINDER						C-R
1	EA	CYLINDER						C-R
1	EA	SURFACE CLOSER		4040XP	REG OR PA AS	REQ	689	LCN
1	EA	KICK PLATE		8400 10	" X 2" LDW B-CS		626	IVE
1	EA	WALL STOP		WS406/4	407CCV		626	IVE
1	EA	GASKETING		188SBK	(USE SILENCE	RS AT	BK	ZER
				NON-RA	TED DOORS)			
1	EA	MULTITECH READE	R	MT15 12	2 VDC		BLK	SCE
1	EA	DOOR CONTACT		679-05			WHT	SCE
1	EA	POWER SUPPLY						UNK
1	EA	POWER SUPPLY		PS902 9	00-2RS 120/240	VAC		VON
	0	NI 07440						
Hardwa	ire Grou	p No. C711C						
	011 000	1 #(S).	02 17 4	F				
DZ-17 Provide	-20 Leach Si	GL door(s) with the fo	UZ-17-4;	5				
	each o		llowing.	CATALO			EINISH	MED
1	FΔ	CONT HINGE					628	
1	ΕΔ	POWER TRANSFER	,	EPT10 (			689	VON
1	ΕΔ		NARE		-99-1 -NII -06-COI		626	VON
1	ΕΔ	CYLINDER			-00-2-112-00-001	124 100	020	C-R
1	ΕΔ							C-R
1				1010XP	SCUSH		680	
1				8/00 10	" X 2" I DW B-CS		626	
1				188SBK		τΔ 29	BK	
1		GAGRETING		NON-RA	TFD DOORS)		DR	
1	EA	MULTITECH READE	R	MT15 12	2 VDC		BLK	SCE
1	EA	DOOR CONTACT		679-05	•		WHT	SCE
1	EA	POWER SUPPLY						UNK
1	EA	POWER SUPPLY		PS902 9	00-2RS 120/240	VAC		VON
						-		

Hardw	are Gro	oup No. C711R			
For us	e on Do	oor #(s):			
02-1	8-02	02-19-08 02-19-3	30		
Provid	e each	SGL door(s) with the following:			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD EPT	628	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC FIRE EXIT HARDWARE	RX-QEL-99-L-NL-F-06-CON 24 VDC	626	VON
1	EA	CYLINDER			C-R
1	EA	CYLINDER			C-R
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	626	IVE
1	EA	WALL STOP	WS406/407CCV	626	IVE
1	EA	GASKETING	188SBK (USE SILENCERS AT NON-RATED DOORS)	BK	ZER
1	EA	MULTITECH READER	MT15 12 VDC	BLK	SCE
1	EA	DOOR CONTACT	679-05	WHT	SCE
1	EA	POWER SUPPLY			UNK
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC		VON
Hardw	are Gro	oup No. C714AM			
For us	e on Do	oor #(s):			
01-0	0-00A				
Provid	e each	PR door(s) with the following:			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224HD EPT	628	IVE
2	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-EO-CON 24 VDC	626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-NL-OP-110MD-CON 24 VDC	626	VON
1	EA	CYLINDER			C-R
1	EA	CYLINDER			C-R
2	EA	90 DEG OFFSET PULL	8190HD 10" A	630	IVE
2	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	SEAL SET			UNK
2	EA	DOOR SWEEP	39A	А	ZER
1	EA	THRESHOLD	65A-223	А	ZER
1	EA	MULTITECH READER	MT15 12 VDC	BLK	SCE
2	EA	DOOR CONTACT	679-05	WHT	SCE
1	EA	POWER SUPPLY			UNK
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC		VON

Hardwa For use	are Grou e on Doo	p No. C715 r #(s):						
01-00	)-10B	01-00-11	01-00-13	3	01-00-14	01-05-01	C	01-13-01B
01-14	I-01B	01-14-02B	01-16-0	7B	01-19-06B			
Provide	e each S	GL door(s) with the fo	llowing:					
QTY		DESCRIPTION		CATALC	G NUMBER		FINISH	MFR
1	EA	CONT. HINGE		224HD E	EPT		628	IVE
1	EA	POWER TRANSFER	R	EPT10 C	CON		689	VON
1	EA	ELEC PANIC HARD	WARE	RX-QEL	-99-NL-OP-110	MD-CON	626	VON
				24 VDC				
1	EA	CYLINDER						C-R
1	EA	CYLINDER						C-R
1	EA	90 DEG OFFSET PL	JLL	8190HD	10" A		630	IVE
1	EA	SURFACE CLOSER		4040XP	SCUSH		689	LCN
1	EA	RAIN DRIP		142AA			AA	ZER
1	EA	GASKETING		328AA-S	5		AA	ZER
1	EA	DOOR SWEEP		39A			А	ZER
1	EA	THRESHOLD		65A-223			А	ZER
1	EA	MULTITECH READE	R	MT15 12	2 VDC		BLK	SCE
1	EA	DOOR CONTACT		679-05			WHT	SCE
1	EA	POWER SUPPLY						UNK
1	EA	POWER SUPPLY		PS902 9	00-2RS 120/24	40 VAC		VON

#### End of Section