

# PRE-BID CLARIFICATION FORM

|                              |  |                    |  |
|------------------------------|--|--------------------|--|
| PROJECT NAME:                | FILLMORE HIGH SCHOOL<br>NEW ATHLETIC COMPLEX   |                    |  |
| PROJECT NUMBER:              | Project No. 2024-017 / DSA #03-123950  |                    |  |
| TO:                          | RJ Stump<br>Fillmore Unified School Dist.<br><br>Roy Frey<br>WestGroup Designs   |                    |  |
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| DATE:                        | 2.5.2025   |                    |  |
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| DOCUMENT/DIVISION<br>NUMBER: |  | DRAWING<br>NUMBER: | A2-1.1, A6-1.1   |

## REQUESTED CLARIFICATION:

**Please circle all applicable bid packages below, that this RFI pertains to:**

**Base bid**

**Alt #1**

**Alt #2**

Opening 110 is shown on the both the floor plan and door schedule as a double door from exterior into the Electrical Room 110. The Door Schedule calls out hardware set 13 for Door 110 however hardware set 13 is for a single door, not a double. Please clarify.

# PRE-BID CLARIFICATION FORM

## RESPONSE TO CLARIFICATION:

**Allegion response: Hardware set 13 has been replaced to accommodate a pair of doors.**

### HARDWARE GROUP NO. 13

For use on Door #(s):

110

Provide each PR door(s) with the following:

| QTY |     | DESCRIPTION       | CATALOG NUMBER               | FINISH | MFR |
|-----|-----|-------------------|------------------------------|--------|-----|
| 8   | EA  | HINGE             | 3CB1 4.5 X 4.5 NRP           | 630    | IVE |
| 1   | EA  | REMOVABLE MULLION | KR4954                       | 689    | VON |
| 1   | EA  | PANIC HARDWARE    | LD-PA-AX-98-EO               | 626    | VON |
| 1   | EA  | PANIC HARDWARE    | LD-PA-AX-98-NL-OP-110MD      | 626    | VON |
| 1   | EA  | RIM CYLINDER      | 20-057 ICX                   | 626    | SCH |
| 1   | EA  | MORTISE CYLINDER  | 20-061 ICX X K510-730 36-083 | 626    | SCH |
| 2   | EA  | FSIC CORE         | 23-030                       | 626    | SCH |
| 1   | EA  | DOOR PULL         | VR910 NL                     | 630    | IVE |
| 2   | EA  | SURFACE CLOSER    | 4111 SCUSH                   | 689    | LCN |
| 2   | EA  | KICK PLATE        | 8400 10" X 2" LDW B-CS       | 630    | IVE |
| 1   | SET | GASKETING         | 328AA-S AT JAMB LEGS         | AA     | ZER |
| 1   | SET | GASKETING         | 429AA-S AT HEAD              | AA     | ZER |
| 1   | EA  | THRESHOLD         | THRESHOLD AS DETAILED        |        |     |
| 2   | EA  | DOOR SWEEP        | 39A                          | A      | ZER |

Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.

**SECTION 08 71 00  
DOOR HARDWARE**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. Section Includes:
  - 1. Storefront and entrance door hardware.
  - 2. Gate Hardware.
- B. Related Divisions:
  - 1. Section 08 11 13 - Hollow Metal Doors and Frames
  - 2. Section 08 36 13 - Sectional Doors
- C. Omissions: Hardware for the following is specified or indicated elsewhere.
  - 1. Windows.
  - 2. Cabinets, including open wall shelving and locks.
  - 3. Signs, except where scheduled.
  - 4. Toilet accessories, including grab bars.
  - 5. Installation.
  - 6. Rough hardware.
  - 7. Conduit, junction boxes & wiring.
  - 8. Folding partitions, except cylinders where detailed.
  - 9. Sliding aluminum doors, except cylinders where detailed.
  - 10. Access doors and panels, except cylinders where detailed.
  - 11. Corner Guards.
  - 12. Welded steel gates and supports.

**1.02 REFERENCES:**

- A. Use date of standard in effect as of Bid date.
  - 1. American National Standards Institute
    - a. ANSI 156.18 – Materials and Finishes.
  - 2. BHMA – Builders Hardware Manufacturers Association
  - 3. 2022 California Building Code
    - a. Chapter 11B – Accessibility To Public Buildings, Public Accommodations, Commercial Buildings and Public Housing
  - 4. DHI – Door and Hardware Institute
  - 5. NFPA – National Fire Protection Association
    - a. NFPA 80 2019 Edition – Standard for Fire Doors and Other Opening Protectives.
    - b. NFPA 105 – Smoke and Draft Control Door Assemblies
    - c. NFPA 252 – Fire Tests of Door Assemblies
  - 6. UL – Underwriters Laboratories
    - a. UL10C – Positive Pressure Fire Tests of Door Assemblies.
    - b. UL 305 – Panic Hardware
  - 7. WHI – Warnock Hersey Incorporated State of California Building Code
  - 8. Local applicable codes
  - 9. SDI – Steel Door Institute
  - 10. WI – Woodwork Institute
  - 11. AWI – Architectural Woodwork Institute
  - 12. NAAMM – National Association of Architectural Metal Manufacturers
- B. Abbreviations
  - 1. Manufacturers: see table at 2.1.A of this section
  - 2. Finishes: see 2.7 of this section.

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### 1.03 SUBMITTALS & SUBSTITUTIONS

- A. SUBMITTALS: Submit six copies of schedule per D. Only submittals printed one sided will be accepted and reviewed. Organize vertically formatted schedule into "Hardware Sets" with index of doors and headings, indicating complete designations of every item required for each door or opening. Minimum 10pt font size. Include following information:
1. Type, style, function, size, quantity and finish of hardware items.
  2. Use BHMA Finish codes per ANSI A156.18.
  3. Name, part number and manufacturer of each item.
  4. Fastenings and other pertinent information.
  5. Location of hardware set coordinated with floor plans and door schedule.
  6. Explanation of abbreviations, symbols, and codes contained in schedule.
  7. Mounting locations for hardware.
  8. Door and frame sizes, materials and degrees of swing.
  9. List of manufacturers used and their nearest representative with address and phone number.
  10. Catalog cuts.
  11. Point-to-point wiring diagrams.
  12. Manufacturer's technical data and installation instructions for electronic hardware.
- B. Bid and submit manufacturer's updated/improved item if scheduled item is discontinued.
- C. Deviations: Highlight, encircle or otherwise identify deviations from "Schedule of Finish Hardware" on submittal with notations clearly designating those portions as deviating from this section.
- D. If discrepancy between drawings and scheduled material in this section, bid the more expensive of the two choices, note the discrepancy in the submittal and request direction from Architect for resolution.
- E. Substitutions per Division 1. Include product data and indicate benefit to the Project. Furnish operating samples on request.
- F. Items listed with no substitute manufacturers have been requested by Owner to meet existing standard.
- G. Furnish as-built/as-installed schedule with closeout documents, including keying schedule, riser and point-to-point wiring diagrams, manufacturers' installation, adjustment and maintenance information, and supplier's final inspection report.
- H. Close Out Maintenance Materials, provide the following:
1. As-built hardware schedule.
  2. Copies of warranty information for each hardware type.
  3. Binder of catalog cuts or complete catalog sections of items used, installation and maintenance/adjustment information.
  4. Collection of tools that were included with the hardware: wrenches, drivers, etc.

### 1.04 QUALITY ASSURANCE:

- A. Hardware: Free of defects, blemishes and excessive play. Obtain each kind of hardware (latch and locksets, exit devices, hinges and closers) from one manufacturer.
- B. Exit Doors: Operable from inside with single motion without the use of a key or special knowledge or effort.
- C. Fire-Rated Openings: NFPA 80 compliant. Hardware UL10C (positive pressure) compliant for given type/size opening and degree of label. Provide proper latching hardware, non-flaming door closers, approved-bearing hinges, and resilient seals. Coordinate with wood door section for required intumescent seals. Furnish openings complete.
- D. Furnish hardware items required to complete the work in accordance with specified performance level and design intent, complying with manufacturers' instructions and code

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requirements.

**1.05 DELIVERY, STORAGE AND HANDLING:**

- A. Delivery: coordinate delivery to appropriate locations (shop or field).
  - 1. Permanent keys and cores: secured delivery direct to Owner's representative.
- B. Acceptance at Site: Items individually packaged in manufacturers' original containers, complete with proper fasteners and related pieces. Clearly mark packages to indicate contents, locations in hardware schedule and door numbers.
- C. Storage: Provide securely locked storage area for hardware, protect from moisture, sunlight, paint, chemicals, dust, excessive heat and cold, etc.

**1.06 PROJECT CONDITIONS AND COORDINATION:**

- A. Where exact types of hardware specified are not adaptable to finished shape or size of members requiring hardware, provide suitable types having as nearly as practical the same operation and quality as type specified, subject to Architect's approval.
- B. Coordination: Coordinate hardware with other work. Furnish hardware items of proper design for use on doors and frames of the thickness, profile, swing, security and similar requirements indicated, as necessary for proper installation and function, regardless of omissions or conflicts in the information on the Contract Documents. Furnish related trades with the following information:
  - 1. Location of embedded and attached items to concrete.
  - 2. Location of wall-mounted hardware, including wall stops.
  - 3. Location of finish floor materials and floor-mounted hardware.
  - 4. At masonry construction, coordinate with the anchoring and hollow metal supplier prior to frame installation by placing a strip of insulation, wood, or foam, on the back of the hollow metal frame behind the rabbet section for continuous hinges, as well as at rim panic hardware strike locations, silencers, coordinators, and door closer arm locations. When the frame is grouted in place, the backing will allow drilling and tapping without dulling or breaking the installer's bits.
  - 5. Locations for conduit and raceways as needed for electrical, electronic and electro-pneumatic hardware items. Fire/life-safety system interfacing. Point-to-point wiring diagrams plus riser diagrams to related trades.
  - 6. Coordinate: low-voltage power supply locations.
  - 7. Coordinate: back-up power for doors with automatic operators.
  - 8. Coordinate: flush top rails of doors at outswinging exteriors, and throughout where adhesive-mounted seals occur.
  - 9. Manufacturers' templates to door and frame fabricators.
- C. Check Shop Drawings for doors and entrances to confirm that adequate provisions will be made for proper hardware installation.
- D. Environmental considerations: segregate unused recyclable paper and paper product packaging, uninstalled metals, and plastics, and have these sent to a recycling center.

**1.07 WARRANTY:**

- A. Part of respective manufacturers' regular terms of sale. Provide manufacturers' written warranties.
- B. Include factory order numbers with close-out documents to validate warranty information, required for Owner in making future warranty claims:
- C. Minimum warranties:

|    |                                       |             |
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| 1. | Locksets:                             | Three years |
| 2. | Extra Heavy Duty<br>Cylindrical Lock: | Seven Years |

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|----|----------------|---|
| 3. | Exit Devices:  | Three years mechanical<br>One year electrical   |
| 4. | Closers:       | Thirty years mechanical<br>Two years electrical |
| 5. | Hinges:        | One year  |
| 6. | Other Hardware | Two years                                       |

#### 1.08 COMMISSIONING:

- A. Conduct these tests prior to request for certificate of substantial completion:
  - 1. With installer present, test door hardware operation with climate control system and stairwell pressurization system both at rest and while in full operation.

#### 1.09 REGULATORY REQUIREMENTS:

- A. Locate latching hardware between 34 inches to 44 inches above the finished floor, per 2022 California Building Code, Section 11B-404.2.7.
  - 1. Panic hardware: locate between 36 inches to 44 inches above the finished floor.
- B. Handles, pull, latches, locks, other operable parts:
  - 1. Readily openable from egress side with one hand and without tight grasping, tight pinching, or twisting of the wrist to operate. 2022 California Building Code Section 11B-309.4.
  - 2. Force required to activate the operable parts: 5.0 pounds maximum, per 2022 California Building Code Section 11B-309.4.
- C. Adjust doors to open with not more than 5.0-pounds pressure to open at exterior doors and 5.0-pounds at interior doors. As allowed per 2022 California Building Code Section 11B-404.2.9, local authority may increase the allowable pressure for fire doors to achieve positive latching, but not to exceed 15-pounds.
  - 1. Exception: exterior doors' pressure-to-open may be increased to 8.5-pounds if: at a single location, and one of a bank of eight leaves or fraction of eight, and one leaf of this bank is fitted with a low- or high-energy operator.
- D. Low-energy powered doors: comply with ANSI/BHMA A156.19. Reference: 2022 California Building Code Section 11B-404.2.9.
  - 1. Where powered door serves an occupancy of 100 or more, provide back-up battery power or stand-by generator power, capable of supporting a minimum of 100 cycles.
  - 2. Actuators, vertical bar type: minimum 2-inches wide, 30-inches high, bottom located minimum 5-inches above floor or ground, top located minimum 35-inches above floor or ground. Displays International Symbol of Accessibility, per 2022 California Building Code Section 11B-703.7.
  - 3. Actuators, plate type: use two at each side of the opening. Minimum 4-inches diameter or 4-inches square. Displays International Symbol of Accessibility, per 2022 California Building Code Section 11B-703.7. Locate centerline of lower plate between 7- and 8-inches above floor or ground, and upper plate between 30- and 44-inches above floor or ground.
  - 4. Actuator location: conspicuously located, clear and level floor/ground space for forward or parallel approach.
- E. Adjust door closer sweep periods so that from an open position of 90 degrees, the door will take at least 5 seconds to move to a point 12 degrees from the latch, measured to the landing side of the door, per 2022 California Building Code Section 11B-404.2.8.
  - 1. Spring hinges: adjust for 1.5 seconds minimum for 70 degrees to fully-closed.
- F. Smooth surfaces at bottom 10 inches of push sides of doors, facilitating push-open with wheelchair footrests, per 2022 California Building Code Section 11B-404.2.10.

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1. Applied kickplates and armor plates: bevel the left and right edges; free of sharp or abrasive edges.
  2. Tempered glass doors without stiles: bottom rail may be less than 10 inches if top leading edge is tapered 60 degrees minimum.
- G. Door opening clear width no less than 32 inches, measured from face of frame stop, or edge of inactive leaf of pair of doors, to door face with door opened to 90 degrees. Hardware projection not a factor in clear width if located above 30 inches and below 80 inches, and the hardware projects no more than 4 inches. 2022 California Building Code Section 11B-404.2.3.
1. Exception: doors not requiring full passage through the opening, that is, to spaces less than 24 inches in depth, may have the clear opening width reduced to 20 inches.  
Example: shallow closets.
  2. Door closers and overhead stops: not less than 78 inches above the finished floor or ground, per 2022 California Building Code 11B-307.4.
- H. Thresholds: floor or landing no more than 0.50 inches below the top of the threshold of the doorway, per 2022 California Building Code Section 11B-404.2.5. Vertical rise no more than 0.25 inches, change in level between 0.25 inches and 0.50 inches: beveled to slope no greater than 1:2 (50 percent slope). 2022 California Building Code Section 11B-303.2 & ~.3.
- I. Floor stops: Do not locate in path of travel. Locate no more than 4 inches from walls, per DSA Policy #99-08 (Access).
- J. Pairs of doors with independently-activated hardware both leafs: limit swing of right-hand or right-hand-reverse leaf to 90 degrees to protect persons reading wall-mounted tactile signage, per 2022 California Building Code Section 11B-703.4.2.
- K. Door and door hardware encroachment: when door is swung fully-open into means-of-egress path, the door may not encroach/project more than 7 inches into the required exit width, with the exception of door release hardware such as lockset levers or panic hardware. These hardware items must be located no less than 34-inches and no more than 48-inches above the floor/ground. 2022 California Building Code, Section 1005.7.1.
1. In I-2 occupancies, surface mounted latch release hardware, mounted to the side of the door facing away from the adjacent wall where the door is in the open position, is not exempt from the inclusion in the 7-inch maximum encroachment, regardless of its mounting height, per 2022 California Building Code, Section 1005.7.1 at Exception 1.
- L. New buildings that are included in public schools (kindergarten through 12th grade) state funded projects and receiving state funding pursuant to Leroy F. Green, School Facilities Act of 1998, California Education Code Sections 17070.10 through 17079, and that are submitted to the Division of the State Architect for plan review after July 1, 2011 in accordance with the Education Code 17075.50, shall include locks that allow doors to classrooms and any room with an occupancy of five or more persons to be locked from the inside. The locks shall conform to the specification and requirements found in Section 1010.2 2022 California Building Code Section 1010.2.8.2.
- Exceptions:
1. Doors that are locked from the outside at all times such as, but not limited to, janitor's closet, electrical room, storage room, boiler room, elevator equipment room and pupil restroom.
  2. Reconstruction projects that utilize original plans in accordance with California Administrative Code, Section 4-314.
  3. Existing relocatable buildings that are relocated within same site in accordance with California Administrative Code, Section 4-314.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS:

Listed acceptable alternate manufacturers: these will be considered; submit for review

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products with equivalent function and features of scheduled products.

| ITEM:               | MANUFACTURER:                | ACCEPTABLE<br>ALTERNATE: |
|---------------------|------------------------------|--------------------------|
| Hinges              | (IVE) Ives                   | Bommer                   |
| Continuous Hinges   | (IVE) Ives                   | Select                   |
| Pivots              | (IVE) Ives                   | Rixson                   |
| Floor Closers       | (RIX) Rixson                 | Dorma                    |
| Key System          | (SCH) Schlage                | Owner standard           |
| Mechanical Locks    | (SCH) Schlage                | Owner standard           |
| Electronic Locks    | (SCE) Schlage<br>Electronics | Owner standard           |
| Exit Devices        | (VON) Von Duprin             | Owner standard           |
| Closers             | (LCN) LCN                    | Owner standard           |
| Auto Flush Bolts    | (IVE) Ives                   | DCI                      |
| Coordinators        | (IVE) Ives                   | DCI                      |
| Silencers           | (IVE) Ives                   | Rockwood,<br>Trimco      |
| Push & Pull Plates  | (IVE) Ives                   | Rockwood,<br>Trimco      |
| Kickplates          | (IVE) Ives                   | Rockwood,<br>Trimco      |
| Stops & Holders     | (IVE) Ives                   | Rockwood,<br>Trimco      |
| Overhead Stops      | (GLY) Glynn-Johnson          | ABH                      |
| Thresholds          | (ZER) Zero                   | NGP, Pemko               |
| Seals & Bottoms     | (ZER) Zero                   | NGP, Pemko               |
| Key Cabinets        | (LUN) Lund                   | TelKee                   |
| Aluminum Door Locks | (ADA) Adams Rite             | None                     |

## 2.02 HINGING METHODS:

- A. Drawings typically depict doors at 90 degrees, doors will actually swing to maximum allowable. Use wide-throw conventional or continuous hinges as needed up to 8 inches in width to allow door to stand parallel to wall for true 180-degree opening. Advise architect if 8-inch width is insufficient.
- B. Conform to manufacturer's published hinge selection standard for door dimensions, weight and frequency, and to hinge selection as scheduled. Where manufacturer's standard exceeds the scheduled product, furnish the heavier of the two choices, notify Architect of deviation from scheduled hardware.
- C. Conventional Hinges: Steel or stainless steel pins and approved bearings. Hinge open widths minimum, but of sufficient throw to permit maximum door swing.
  1. Outswinging exterior doors: non-ferrous with non-removable (NRP) pins and security studs.
  2. Non-ferrous material exteriors and at doors subject to corrosive atmospheric conditions.
- D. Continuous Hinges:
  1. Geared-type aluminum.

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- a. Use wide-throw units where needed for maximum degree of swing, advise architect if commonly available hinges are insufficient.
- b. If units are used at storefront openings, color-coordinate hinge finish with storefront color. Custom anodizing and custom powdercoat finishes subject to Architect approval.

### 2.03 LOCKSETS, LATCHSETS, DEADBOLTS:

- A. Extra Heavy Duty Cylindrical Locks and Latches: as scheduled.
  1. Chassis: cylindrical design, corrosion-resistant plated cold-rolled steel, through-bolted.
  2. Locking Spindle: stainless steel, integrated spring and spindle design.
  3. Latch Retractors: forged steel. Balance of inner parts: corrosion-resistant plated steel, or stainless steel.
  4. Latchbolt: solid steel.
  5. Backset: 2.75 inches typically, more or less as needed to accommodate frame, door or other hardware.
  6. Lever Trim: accessible design, independent operation, spring-cage supported, minimum 2.00 inches clearance from lever mid-point to door face.
  7. Electric operation: Manufacturer-installed continuous duty solenoid.
  8. Strikes: 16 gage curved steel, bronze or brass with 1.00 inch deep box construction, lips of sufficient length to clear trim and protect clothing.
  9. Lock Series and Design: Schlage ND series, "Rhodes" design.
  10. Certifications:
    - a. ANSI A156.2, Series 4000, Grade 1.
    - b. UL listed for A label and lesser class single doors up to 4 feet x 8 feet.
  11. Accessibility: Require not more than 5 lb to retract the latchbolt or deadbolt, or both, per CBC 2022 11B-404.2.7 and 11B-309.4

### 2.04 EXIT DEVICES / PANIC HARDWARE

- A. General features:
  1. Independent lab-tested 1,000,000 cycles.
  2. Push-through push-pad design. No exposed push-pad fasteners, no exposed cavities when operated. Return stroke fluid dampeners and rubber bottoming dampeners, plus anti-rattle devices.
  3. Deadlocking latchbolts, 0.75 inch projection.
  4. End caps: impact-resistant, flush-mounted. No raised edges or lips to catch carts or other equipment.
  5. No exposed screws to show through glass doors.
  6. Non-handed basic device design with center case interchangeable with all functions, no extra parts required to effect change of function.
  7. Releasable in normal operation with 15-pound maximum operating force per UBC Standard 10-4, and with 32-pound maximum pressure under 250-pound load to the door.
  8. Exterior doors scheduled with XP-series devices: Static load force resistance of at least 2000 pounds.
  9. Accessibility: Require not more than 5 lb to retract the latchbolt, per CBC 2022 11B-404.2.7 and 11B-309.4.
    - a. Mechanical method: Von Duprin "AX-" feature, where touchpad directly retracts the latchbolt with 5 lb or less of force. Provide testing lab certification confirming that the mechanical device is independent third-party tested to meet this 5 lb requirement.
    - b. Electrical method: Von Duprin's "RX-QEL-", where lightly pressing the touchpad with 5 lb or less of force closes an electric switch, activating quiet electric latch retraction.
- B. Specific features:
  1. Non-Fire Rated Devices: cylinder dogging.
  2. Lever Trim: breakaway type, forged brass or bronze escutcheon min. 0.130 inch thickness, compression spring drive, match lockset lever design.

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3. Rod and latch guards with sloped full-width kickplates for doors fitted with surface vertical rod devices with bottom latches.
4. Fire-Labeled Devices: UL label indicating "Fire Exit Hardware". Vertical rod devices less bottom rod (LBR) unless otherwise scheduled.
5. Impact recessed devices: 1.25 inch projection when push-pad is depressed. Sloped metal end caps to deflect carts, etc. No pinch points to catch skin between touchbar and door.
6. Delayed Egress Devices: Function achieved within single exit device component, including latch, delayed locking device, request-to-exit switch, nuisance alarm, remote alarm, key switch, indicator lamp, relay, internal horn, door position input, external inhibit input plus fire alarm input. NFPA 101 "Special Locking Arrangement" compliant.
7. Electrically Operated Devices: Single manufacturer source for electric latch retraction devices, electrically controlled trim, power transfers, power supplies, monitoring switches and controls.
8. Removable Mullions: Removable with single turn of building key. Securely reinstalled without need for key. Furnish storage brackets for securely stowing the mullion away from the door when removed.
9. Accepted substitutions: None

## 2.05 CLOSERS

- A. Surface Closers:
  1. Full rack-and-pinion type cylinder with removable non-ferrous cover and cast iron body. Double heat-treated pinion shaft, single piece forged piston, chrome-silicon steel spring.
  2. ISO 2000 certified. Units stamped with date-of-manufacture code.
  3. Independent lab-tested 10,000,000 cycles.
  4. Non-sized and adjustable. Place closers inside building, stairs and rooms.
  5. Plates, brackets and special templating when needed for interface with particular header, door and wall conditions and neighboring hardware.
  6. Advanced Variable Backcheck (AVB): where scheduled, these units commence backcheck at approximately 45 degrees.
  7. Adjust doors to open with not more than 5.0-pounds pressure to open at exterior doors and 5.0-pounds at interior doors. As allowed per 2022 California Building Code Section 11B-404.2.9, local authority may increase the allowable pressure for fire doors to achieve positive latching, but not to exceed 15-pounds.
    - a. Exception: exterior doors' pressure-to-open may be increased to 8.5-pounds if: at a single location, and one of a bank of eight leaves or fraction of eight, and one leaf of this bank is fitted with a low- or high-energy operator.
  8. Separate adjusting valves for closing speed, latching speed and backcheck, fourth valve for delayed action where scheduled.
  9. Extra-duty arms (EDA) at exterior doors scheduled with parallel arm units. EDA arms: rigid main and forearm, reinforced elbow.
  10. Exterior door closers: tested to 100 hours of ASTM B117 salt spray test, furnish data on request.
  11. Exterior doors: seasonal adjustments not required for temperatures from 120 degrees F to -30 degrees F, furnish checking fluid data on request.
  12. Non-flaming fluid, will not fuel door or floor covering fires.
  13. Pressure Relief Valves (PRV) not permitted.
  14. Accepted substitutions: None

## 2.06 OTHER HARDWARE

- A. Automatic Flush Bolts: Low operating force design.
- B. Overhead Stops: Non-plastic mechanisms and finished metal end caps. Field-changeable hold-open, friction and stop-only functions.
- C. Kick Plates: Four beveled edges, .050 inches minimum thickness, height and width as scheduled. Sheet-metal screws of bronze or stainless steel to match other hardware.

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- D. Door Stops: Provide stops to protect walls, casework or other hardware.
1. Unless otherwise noted in Hardware Sets, provide floor type with appropriate fasteners. Where floor type cannot be used, provide wall type. If neither can be used, provide overhead type.
  2. Locate overhead stops for maximum possible opening. Consult with Owner for furniture locations. Minimum: 90deg stop / 95deg deadstop. Note degree of opening in submittal.
- E. Thresholds: As scheduled and per details. Comply with CBC 2022 11B-404.2.5. Substitute products: certify that the products equal or exceed specified material's thickness. Proposed substitutions: submit for approval.
1. Saddle thresholds: 0.125 inches minimum thickness.
  2. Exteriors: Seal perimeter to exclude water and vermin. Use sealant complying with requirements in Division 7 "Thermal and Moisture Protection". Minimum 0.25 inch diameter fasteners and lead expansion shield anchors, or Red-Head #SFS-1420 (or approved equivalent) Flat Head Sleeve Anchors. National Guard Products' "COMBO" or Pemko Manufacturing's "FHSL".
  3. Fire-rated openings, 90-minutes or less duration: use thresholds to interrupt floor covering material under the door where that material has a critical radiant flux value less than 0.22 watts per square centimeter, per NFPA 253. Use threshold unit as scheduled. If none scheduled, include a 0.25in high 5in wide saddle in the bid, and request direction from Architect.
  4. Fire-rated openings, 3-hour duration: Thresholds, where scheduled, to extend full jamb depth.
  5. Acoustic openings: Set units in full bed of Division-7-compliant, leave no air space between threshold and substrate.
  6. Plastic plugs with wood or sheet metal screws are not an acceptable substitute for specified fastening methods.
  7. Fasteners: Generally, exposed screws to be Phillips or Robertson drive. Pinned TORX drive at high security areas. Flat head sleeve anchors (FHSL) may be slotted drive. Sheet metal and wood screws: full-thread. Sleeve nuts: full length to prevent door compression.
- F. Through-bolts: Do not use. Coordinate with wood doors; ensure provision of proper blocking to support wood screws for mounting panic hardware and door closers. Coordinate with metal doors and frames; ensure provision of proper reinforcement to support machine screws for mounting panic hardware and door closers.
1. Exception: surface-mounted overhead stops, holders, and friction stays.
- G. Silencers: Interior hollow metal frames, 3 for single doors, 4 for pairs of doors. Leave no unfilled/uncovered pre-punched silencer holes. Intent: door bears against silencers, seals make minimal contact with minimal compression – only enough to effect a seal.

## 2.07 FINISH:

- A. Generally: BHMA 626 Satin Chromium.
1. Areas using BHMA 626: furnish push-plates, pulls and protection plates of BHMA 630, Satin Stainless Steel, unless otherwise scheduled.
- B. Door closers: factory powder coated to match other hardware, unless otherwise noted.

## 2.08 KEYING REQUIREMENTS:

- A. Key System: (Verify with owner) Schlage Everest [D] Primus [29] high-security utility-patented keyway, conventional cylinders with the exception of interchangeable core type operating cylinders for panic hardware. Utility patent protection to extend at least until 2029. Key blanks available only from factory-direct sources, not available from after-market keyblank manufacturers. For estimate use factory GMK charge. Initiate and conduct meetings(s) with Owner and Allegion representatives to determine system keyway(s), keybow styles, structure, stamping, degrees of physical security and degree of geographic exclusivity. Furnish Owner's

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written approval of the system; do not order keys or cylinders without written confirmation of actual requirements from the Owner. Owner will install permanent cylinders/cores.

1. Existing factory registered master key system.
  2. I. C. Construction keying: furnish temporary keyed-alike cylinders and cores. Remove at substantial completion and install permanent cylinders and cores in Owner's presence. Demonstrate that construction key no longer operates.
  3. Temporary cylinders/cores remain Supplier's property.
  4. Non-I.C. construction keying: furnish inserted type partial key. At substantial completion, remove inserts in Owner's presence; demonstrate consequent non-operability of construction key. Give all removed inserts and all construction keys to Owner, provide accounting for all the pieces.
  5. Furnish 10 construction keys.
  6. Furnish 2 construction control keys.
- B. Key Cylinders: furnish 6-pin solid brass construction.
- C. Cylinders/cores: keyed at factory of lock manufacturer where permanent records are maintained. Locksets and cylinders same manufacturer.
- D. Permanent keys: use secured shipment direct from point of origination to Owner.
1. For estimate: 3 keys per change combination, 5 master keys per group, 5 grand-master keys, 3 control keys.
  2. For estimate: VKC stamping plus "DO NOT DUPLICATE".
- E. Bitting List: use secured shipment direct from point of origination to Owner at completion.

### **PART 3 - EXECUTION**

#### **3.01 ACCEPTABLE INSTALLERS:**

- A. Can read and understand manufacturers' templates, suppliers' hardware schedule and printed installation instructions. Can readily distinguish drywall screws from manufacturers' furnished fasteners. Available to meet with manufacturers' representatives and related trades to discuss installation of hardware.

#### **3.02 PREPARATION:**

- A. Ensure that walls and frames are square and plumb before hardware installation. Make corrections before commencing hardware installation. Installation denotes acceptance of wall/frame condition.
- B. Locate hardware per SDI-100 and applicable building, fire, life-safety, accessibility, and security codes.
1. Notify Architect of code conflicts before ordering material.
  2. Locate latching hardware between 34 inches to 44 inches above the finished floor, per California Building Code, Section 1010.1.9.2 and
  3. 11B-404.2.7.
  4. Locate panic hardware between 36 inches to 44 inches above the finished floor.
  5. Where new hardware is to be installed near existing doors/hardware scheduled to remain, match locations of existing hardware.
- C. Overhead stops: before installing, determine proposed locations of furniture items, fixtures, and other items to be protected by the overhead stop's action.

#### **3.03 INSTALLATION**

- A. Install hardware per manufacturer's instructions and recommendations. Do not install surface-mounted items until finishes have been completed on substrate. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate for proper installation and operation. Remove and reinstall or replace work deemed defective by Architect.
1. Gaskets: install jamb-applied gaskets before closers, overhead stops, rim strikes, etc; fasten hardware over and through these seals. Install sweeps across bottoms of doors before astragals, cope sweeps around bottom pivots, trim astragals to tops of sweeps.

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2. When hardware is to be attached to existing metal surface and insufficient reinforcement exists, use RivNuts, NutSerts or similar anchoring device for screws.
  3. Use manufacturers' fasteners furnished with hardware items, or submit Request for Substitution with Architect.
  4. Replace fasteners damaged by power-driven tools.
- B. Locate floor stops no more that 4 inches from walls and not within paths of travel. See paragraph 2.2 regarding hinge widths, door should be well clear of point of wall reveal. Point of door contact no closer to the hinge edge than half the door width. Where situation is questionable or difficult, contact Architect for direction.
- C. Core concrete for exterior door stop anchors. Set anchors in approved non-shrink grout.
- D. Locate overhead stops for minimum 90 degrees at rest and for maximum allowable degree of swing.
- E. Drill pilot holes for fasteners in wood doors and/or frames.
- F. Lubricate and adjust existing hardware scheduled to remain. Carefully remove and give to Owner items not scheduled for reuse.

### 3.04 ADJUSTING

- A. Adjust and check for proper operation and function. Replace units, which cannot be adjusted to operate freely and smoothly.
1. Hardware damaged by improper installation or adjustment methods: repair or replace to Owner's satisfaction.
  2. Adjust doors to fully latch with no more than 1 pound of pressure.
    - a. Door closer valves: turn valves clockwise until at bottom – do not force. Turn valves back out one and one-half turns and begin adjustment process from that point. Do not force valves beyond three full turns counterclockwise.
  3. Adjust delayed-action closers on fire-rated doors to fully close from fully-opened position in no more than 10 seconds.
  4. Adjust door closers per 1.9 this section.
- B. Final inspection: Installer to provide letter to Owner that upon completion installer has visited the Project and has accomplished the following:
1. Has re-adjusted hardware.
  2. Has evaluated maintenance procedures and recommend changes or additions, and instructed Owner's personnel.
  3. Has identified items that have deteriorated or failed.
  4. Has submitted written report identifying problems.

### 3.05 DEMONSTRATION:

- A. Demonstrate mechanical hardware and electrical, electronic and pneumatic hardware systems, including adjustment and maintenance procedures.

### 3.06 PROTECTION/CLEANING:

- A. Cover installed hardware, protect from paint, cleaning agents, weathering, carts/barrows, etc. Remove covering materials and clean hardware just prior to substantial completion.
- B. Clean adjacent wall, frame and door surfaces soiled from installation / reinstallation process.

### 3.07 SCHEDULE OF FINISH HARDWARE

- A. See door schedule in drawings for hardware set assignments.
- B. Do not order material until submittal has been reviewed, stamped, and signed by Architect's door hardware consultant.
- C. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the

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architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

### 3.08 HARDWARE SCHEDULE

#### HARDWARE GROUP NO. 01

##### PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

| QTY |    | DESCRIPTION         | CATALOG NUMBER                        | FINISH | MFR |
|-----|----|---------------------|---------------------------------------|--------|-----|
| 2   | EA | CONT. HINGE         | 224XY                                 | 628    | IVE |
| 1   | EA | REMOVABLE MULLION   | KR4954                                | 689    | VON |
| 1   | EA | PANIC HARDWARE      | CD-PA-AX-98-EO                        | 626    | VON |
| 1   | EA | PANIC HARDWARE      | CD-PA-AX-98-NL-OP-110MD               | 626    | VON |
| 1   | EA | MULLION STORAGE KIT | MT54                                  | 689    | VON |
| 1   | EA | RIM CYLINDER        | 20-057 ICX                            | 626    | SCH |
| 1   | EA | MORTISE CYLINDER    | 20-061 ICX X K510-730 36-083          | 626    | SCH |
| 2   | EA | MORTISE CYLINDER    | 20-061 ICX X K510-730 XQ11-948 36-083 | 626    | SCH |
| 4   | EA | FSIC CORE           | 23-030                                | 626    | SCH |
| 1   | EA | DOOR PULL           | VR910 DT                              | 630    | IVE |
| 1   | EA | DOOR PULL           | VR910 NL                              | 630    | IVE |
| 2   | EA | SURFACE CLOSER      | 4111 SHCUSH                           | 689    | LCN |
| 1   | EA | MULLION SEAL        | 8780NBK PSA                           | BK     | ZER |
| 1   | EA | THRESHOLD           | THRESHOLD AS DETAILED                 |        |     |
| 2   | EA | DOOR SWEEP          | 39A                                   | A      | ZER |

#### PERIMETER SEAL BY DOOR/FRAME MANUFACTURER

#### HARDWARE GROUP NO. 02

##### PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

| QTY |    | DESCRIPTION      | CATALOG NUMBER                        | FINISH | MFR |
|-----|----|------------------|---------------------------------------|--------|-----|
| 1   | EA | CONT. HINGE      | 224XY                                 | 628    | IVE |
| 1   | EA | PANIC HARDWARE   | CD-PA-AX-98-NL-OP-110MD               | 626    | VON |
| 1   | EA | RIM CYLINDER     | 20-057 ICK                            | 626    | SCH |
| 1   | EA | MORTISE CYLINDER | 20-061 ICX X K510-730 XQ11-948 36-083 | 626    | SCH |
| 1   | EA | FSIC CORE        | 23-030                                | 626    | SCH |
| 1   | EA | DOOR PULL        | VR910 NL                              | 630    | IVE |
| 1   | EA | SURFACE CLOSER   | 4111 SHCUSH                           | 689    | LCN |
| 1   | EA | THRESHOLD        | THRESHOLD AS DETAILED                 |        |     |
| 1   | EA | DOOR SWEEP       | 39A                                   | A      |     |

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**PERIMETER SEAL BY DOOR/FRAME MANUFACTURER**

**HARDWARE GROUP NO. 03**

**PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:**

| QTY |     | DESCRIPTION         | CATALOG NUMBER                        | FINISH | MFR |
|-----|-----|---------------------|---------------------------------------|--------|-----|
| 2   | EA  | CONT. HINGE         | 224XY                                 | 628    | IVE |
| 1   | EA  | REMOVABLE MULLION   | KR4954                                | 689    | VON |
| 1   | EA  | PANIC HARDWARE      | CD-PA-AX-98-EO                        | 626    | VON |
| 1   | EA  | PANIC HARDWARE      | CD-PA-AX-98-NL-OP-110MD               | 626    | VON |
| 1   | EA  | MULLION STORAGE KIT | MT54                                  | 689    | VON |
| 1   | EA  | RIM CYLINDER        | 20-057 ICX                            | 626    | SCH |
| 1   | EA  | MORTISE CYLINDER    | 20-061 ICX X K510-730 36-083          | 626    | SCH |
| 2   | EA  | MORTISE CYLINDER    | 20-061 ICX X K510-730 XQ11-948 36-083 | 626    | SCH |
| 4   | EA  | FSIC CORE           | 23-030                                | 626    | SCH |
| 1   | EA  | DOOR PULL           | VR910 DT                              | 630    | IVE |
| 1   | EA  | DOOR PULL           | VR910 NL                              | 630    | IVE |
| 2   | EA  | SURFACE CLOSER      | 4111 SHCUSH                           | 689    | LCN |
| 1   | SET | GASKETING           | 328AA-S AT JAMB LEGS                  | AA     | ZER |
| 1   | SET | GASKETING           | 429AA-S AT HEAD                       | AA     | ZER |
| 1   | EA  | MULLION SEAL        | 8780NBK PSA                           | BK     | ZER |

**HARDWARE GROUP NO. 04**

**PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:**

| QTY |     | DESCRIPTION         | CATALOG NUMBER                        | FINISH | MFR |
|-----|-----|---------------------|---------------------------------------|--------|-----|
| 2   | EA  | CONT. HINGE         | 224XY                                 | 628    | IVE |
| 1   | EA  | REMOVABLE MULLION   | KR4954                                | 689    | VON |
| 1   | EA  | PANIC HARDWARE      | CD-PA-AX-98-EO                        | 626    | VON |
| 1   | EA  | PANIC HARDWARE      | CD-PA-AX-98-NL-OP-110MD               | 626    | VON |
| 1   | EA  | MULLION STORAGE KIT | MT54                                  | 689    | VON |
| 1   | EA  | RIM CYLINDER        | 20-057 ICX                            | 626    | SCH |
| 1   | EA  | MORTISE CYLINDER    | 20-061 ICX X K510-730 36-083          | 626    | SCH |
| 2   | EA  | MORTISE CYLINDER    | 20-061 ICX X K510-730 XQ11-948 36-083 | 626    | SCH |
| 4   | EA  | FSIC CORE           | 23-030                                | 626    | SCH |
| 1   | EA  | DOOR PULL           | VR910 DT                              | 630    | IVE |
| 1   | EA  | DOOR PULL           | VR910 NL                              | 630    | IVE |
| 2   | EA  | SURFACE CLOSER      | 4111 SHCUSH                           | 689    | LCN |
| 1   | SET | GASKETING           | 328AA-S AT JAMB LEGS                  | AA     | ZER |
| 1   | SET | GASKETING           | 429AA-S AT HEAD                       | AA     | ZER |
| 1   | EA  | MULLION SEAL        | 8780NBK PSA                           | BK     | ZER |
| 1   | EA  | THRESHOLD           | THRESHOLD AS DETAILED                 |        |     |
| 2   | EA  | DOOR SWEEP          | 39A                                   | A      | ZER |

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**HARDWARE GROUP NO. 05**

**PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:**

| QTY |     | DESCRIPTION         | CATALOG NUMBER                        | FINISH | MFR |
|-----|-----|---------------------|---------------------------------------|--------|-----|
| 2   | EA  | CONT. HINGE         | 224XY                                 | 628    | IVE |
| 1   | EA  | REMOVABLE MULLION   | KR4954                                | 689    | VON |
| 1   | EA  | PANIC HARDWARE      | CD-PA-AX-98-EO                        | 626    | VON |
| 1   | EA  | PANIC HARDWARE      | CD-PA-AX-98-NL-OP-110MD               | 626    | VON |
| 1   | EA  | MULLION STORAGE KIT | MT54                                  | 689    | VON |
| 1   | EA  | RIM CYLINDER        | 20-057 ICX                            | 626    | SCH |
| 1   | EA  | MORTISE CYLINDER    | 20-061 ICX X K510-730 36-083          | 626    | SCH |
| 2   | EA  | MORTISE CYLINDER    | 20-061 ICX X K510-730 XQ11-948 36-083 | 626    | SCH |
| 4   | EA  | FSIC CORE           | 23-030                                | 626    | SCH |
| 1   | EA  | DOOR PULL           | VR910 DT                              | 630    | IVE |
| 1   | EA  | DOOR PULL           | VR910 NL                              | 630    | IVE |
| 2   | EA  | SURFACE CLOSER      | 4111 SHCUSH                           | 689    | LCN |
| 2   | EA  | FLOOR STOP          | FS436/FS438 AS REQ'D                  | 626    | IVE |
| 1   | SET | GASKETING           | 328AA-S AT JAMB LEGS                  | AA     | ZER |
| 1   | SET | GASKETING           | 429AA-S AT HEAD                       | AA     | ZER |
| 1   | EA  | MULLION SEAL        | 8780NBK PSA                           | BK     | ZER |

**HARDWARE GROUP NO. 06**

**PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:**

| QTY |    | DESCRIPTION       | CATALOG NUMBER         | FINISH | MFR |
|-----|----|-------------------|------------------------|--------|-----|
| 6   | EA | HINGE             | 3CB1 4.5 X 4.5         | 652    | IVE |
| 1   | EA | AUTO FLUSH BOLT   | FB31P                  | BLK    | IVE |
| 1   | EA | DUST PROOF STRIKE | DP2                    | 626    | IVE |
| 1   | EA | STOREROOM LOCK    | ND81TD RHO             | 626    | SCH |
| 1   | EA | FSIC CORE         | 23-030                 | 626    | SCH |
| 1   | EA | COORDINATOR       | COR X FL               | 628    | IVE |
| 2   | EA | MOUNTING BRACKET  | MB (AS REQUIRED)       | 689    | IVE |
| 2   | EA | SURFACE CLOSER    | 4111 SHCUSH            | 689    | LCN |
| 2   | EA | KICK PLATE        | 8400 10" X 1" LDW B-CS | 630    | IVE |
| 1   | EA | MEETING STILE     | 44STST                 | STST   | ZER |

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**HARDWARE GROUP NO. 07**

**PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:**

| QTY |    | DESCRIPTION          | CATALOG NUMBER           | FINISH | MFR |
|-----|----|----------------------|--------------------------|--------|-----|
| 4   | EA | HINGE                | 3CB1 4.5 X 4.5 NRP       | 630    | IVE |
| 1   | EA | VANDL STOREROOM LOCK | ND96TD RHO               | 626    | SCH |
| 1   | EA | FSIC CORE            | 23-030                   | 626    | SCH |
| 1   | EA | LOCK GUARD           | LG10                     | US32D  | IVE |
| 1   | EA | SURFACE CLOSER       | 4111                     | 689    | LCN |
| 1   | EA | FLOOR STOP           | FS18S                    | BLK    | IVE |
| 1   | EA | THRESHOLD            | THRESHOLD AS<br>DETAILED |        |     |
| 1   | EA | DOOR SWEEP           | 39A                      | A      | ZER |
| 3   | EA | SILENCER             | SR64                     | GRY    | IVE |

**HARDWARE GROUP NO. 08**

**PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:**

| QTY |    | DESCRIPTION       | CATALOG<br>NUMBER         | FINISH | MFR |
|-----|----|-------------------|---------------------------|--------|-----|
| 8   | EA | HINGE             | 3CB1 4.5 X 4.5            | 652    | IVE |
| 1   | EA | AUTO FLUSH BOLT   | FB31P                     | BLK    | IVE |
| 1   | EA | DUST PROOF STRIKE | DP2                       | 626    | IVE |
| 1   | EA | CLASSROOM LOCK    | ND70TD RHO                | 626    | SCH |
| 1   | EA | FSIC CORE         | 23-030                    | 626    | SCH |
| 1   | EA | COORDINATOR       | COR X FL                  | 628    | IVE |
| 2   | EA | MOUNTING BRACKET  | MB (AS<br>REQUIRED)       | 689    | IVE |
| 2   | EA | SURFACE CLOSER    | 4111 SHCUSH               | 689    | LCN |
| 2   | EA | ARMOR PLATE       | 8400 34" X 1" LDW<br>B-CS | 630    | IVE |
| 1   | EA | MEETING STILE     | 44STST                    | STST   | ZER |

**HARDWARE GROUP NO. 09**

**PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:**

| QTY |    | DESCRIPTION            | CATALOG<br>NUMBER        | FINISH | MFR |
|-----|----|------------------------|--------------------------|--------|-----|
| 4   | EA | HINGE                  | 3CB1 4.5 X 4.5           | 652    | IVE |
| 1   | EA | CLASSROOM DEAD<br>LOCK | L463T                    | 626    | SCH |
| 1   | EA | FSIC CORE              | 23-030                   | 626    | SCH |
| 1   | EA | PUSH PLATE             | 8200 8" X 16" CFC        | 630    | IVE |
| 1   | EA | PULL PLATE             | 8302 10" 6" X 16"<br>CFT | 630    | IVE |
| 1   | EA | SURFACE CLOSER         | 4011                     | 689    | LCN |

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|---|----|------------|------------------------|-----|-----|
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS | 630 | IVE |
| 1 | EA | MOP PLATE  | 8400 4" X 1" LDW B-CS  | 630 | IVE |
| 1 | EA | FLOOR STOP | FS436/FS438 AS REQ'D   | 626 | IVE |
| 3 | EA | SILENCER   | SR64                   | GRY | IVE |

#### HARDWARE GROUP NO. 10

##### PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

| QTY |    | DESCRIPTION    | CATALOG NUMBER         | FINISH | MFR |
|-----|----|----------------|------------------------|--------|-----|
| 4   | EA | HINGE          | 3CB1 4.5 X 4.5         | 652    | IVE |
| 1   | EA | STOREROOM LOCK | ND81TD RHO             | 626    | SCH |
| 1   | EA | FSIC CORE      | 23-030                 | 626    | SCH |
| 1   | EA | SURFACE CLOSER | 4011                   | 689    | LCN |
| 1   | EA | KICK PLATE     | 8400 10" X 2" LDW B-CS | 630    | IVE |
| 1   | EA | FLOOR STOP     | FS436/FS438 AS REQ'D   | 626    | IVE |
| 3   | EA | SILENCER       | SR64                   | GRY    | IVE |

#### HARDWARE GROUP NO. 11

##### PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

| QTY |    | DESCRIPTION    | CATALOG NUMBER       | FINISH | MFR |
|-----|----|----------------|----------------------|--------|-----|
| 1   | EA | CONT. HINGE    | 224XY                | 628    | IVE |
| 1   | EA | CLASSROOM LOCK | ND70TD RHO           | 626    | SCH |
| 1   | EA | FSIC CORE      | 23-030               | 626    | SCH |
| 1   | EA | FLOOR STOP     | FS436/FS438 AS REQ'D | 626    | IVE |

#### PERIMETER SEAL BY DOOR/FRAME MANUFACTURER

#### HARDWARE GROUP NO. 12

##### PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

| QTY |    | DESCRIPTION          | CATALOG NUMBER         | FINISH | MFR |
|-----|----|----------------------|------------------------|--------|-----|
| 4   | EA | HINGE                | 3CB1 4.5 X 4.5         | 652    | IVE |
| 1   | EA | ENTRANCE/OFFICE LOCK | ND50TD RHO             | 626    | SCH |
| 1   | EA | FSIC CORE            | 23-030                 | 626    | SCH |
| 1   | EA | KICK PLATE           | 8400 10" X 2" LDW B-CS | 630    | IVE |
| 1   | EA | FLOOR STOP           | FS436/FS438 AS REQ'D   | 626    | IVE |
| 3   | EA | SILENCER             | SR64                   | GRY    | IVE |

#### HARDWARE GROUP NO. 13

##### PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

| QTY |  | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|-----|--|-------------|----------------|--------|-----|
|-----|--|-------------|----------------|--------|-----|

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|---|-----|-------------------|------------------------------|-----|-----|
| 8 | EA  | HINGE             | 3CB1 4.5 X 4.5 NRP           | 630 | IVE |
| 1 | EA  | REMOVABLE MULLION | KR4954                       | 689 | VON |
| 1 | EA  | PANIC HARDWARE    | LD-PA-AX-98-EO               | 626 | VON |
| 1 | EA  | PANIC HARDWARE    | LD-PA-AX-98-NL-OP-110MD      | 626 | VON |
| 1 | EA  | RIM CYLINDER      | 20-057 ICX                   | 626 | SCH |
| 1 | EA  | MORTISE CYLINDER  | 20-061 iCX X K510-730 36-083 | 626 | SCH |
| 2 | EA  | FSIC CORE         | 23-030                       | 626 | SCH |
| 1 | EA  | DOOR PULL         | VR910 NL                     | 630 | IVE |
| 2 | EA  | SURFACE CLOSER    | 4111 SCUSH                   | 689 | LCN |
| 2 | EA  | KICK PLATE        | 8400 10" X 2 LDW B-CS        | 630 | IVE |
| 1 | SET | GASKETING         | 328AA-S AT JAMB LEGS         | AA  | ZER |
| 1 | SET | GASKETING         | 429AA-S AT HEAD              | AA  | ZER |
| 1 | EA  | THRESHOLD         | THRESHOLD AS DETAILED        |     |     |
| 1 | EA  | DOOR SWEEP        | 39A                          | A   | ZER |

**HARDWARE GROUP NO. 14****11.01 PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:**

| QTY |     | DESCRIPTION                                       | CATALOG NUMBER           | FINISH | MFR |
|-----|-----|---|--------------------------|--------|-----|
| 3   | EA  | HINGE   | 3CB1 4.5 X 4.5           | 652    | IVE |
| 1   | EA  | FACULTY<br>RESTROOM/HOTEL W/<br>OUTSIDE INDICATOR | L9485T 06A 09-544 OS-OCC | 626    | SCH |
| 1   | EA  | SURFACE CLOSER                                    | 4111 SCUSH               | 689    | LCN |
| 1   | EA  | KICK PLATE  | 8400 10" X 2" LDW B-CS   | 630    | IVE |
| 1   | EA  | MOP PLATE   | 8400 4" X 1" LDW B-CS    | 630    | IVE |
| 1   | SET | GASKETING   | 328AA-S AT JAMB LEGS     | AA     | ZER |
| 1   | SET | GASKETING   | 429AA-S AT HEAD          | AA     | ZER |

**12.01 HARDWARE GROUP NO. 15****PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:**

| QTY |     | DESCRIPTION            | CATALOG NUMBER        | FINISH | MFR |
|-----|-----|------------------------|-----------------------|--------|-----|
| 4   | EA  | HINGE                  | 3CB1HW 4.5 X 4.5 NRP  | 630    | IVE |
| 1   | EA  | VANDL CLASSROOM<br>SEC | ND95TD RHO XN12-035   | 626    | SCH |
| 2   | EA  | FSIC CORE              | 23-030                | 626    | SCH |
| 1   | EA  | LOCK GUARD             | LG10                  | US32D  | IVE |
| 1   | EA  | SURFACE CLOSER         | 4111 SCUSH            | 689    | LCN |
| 1   | SET | GASKETING              | 328AA-S AT JAMB LEGS  | AA     | ZER |
| 1   | SET | GASKETING              | 429AA-S AT HEAD       | AA     | ZER |
| 1   | EA  | THRESHOLD              | THRESHOLD AS DETAILED |        |     |
| 1   | EA  | DOOR SWEEP             | 39A                   | A      | ZER |

|               |                                       |            |
|---------------|---------------------------------------|------------|
| WD 22851      | FILLMORE UNIFIED SCHOOL DISTRICT      | 12/12/2023 |
| DSA 03-123950 | FILLMORE HIGH SCHOOL ATHLETIC COMPLEX |            |

**HARDWARE GROUP NO. 16**

**PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:**

| QTY |    | DESCRIPTION    | CATALOG NUMBER         | FINISH | MFR |
|-----|----|----------------|------------------------|--------|-----|
| 4   | EA | HINGE          | 3CB1 4.5 X 4.5         | 652    | IVE |
| 1   | EA | CLASSROOM LOCK | ND70TD RHO             | 626    | SCH |
| 1   | EA | FSIC CORE      | 23-030                 | 626    | SCH |
| 1   | EA | KICK PLATE     | 8400 10" X 2" LDW B-CS | 630    | IVE |
| 1   | EA | FLOOR STOP     | FS436/FS438 AS REQ'D   | 626    | IVE |
| 3   | EA | SILENCER       | SR64                   | GRY    | IVE |

**HARDWARE GROUP NO. 17**

**PROVIDE EACH RU DOOR(S) WITH THE FOLLOWING:**

| QTY |    | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|-----|----|-------------|----------------|--------|-----|
| 1   | EA | FSIC CORE   | 23-030         | 626    | SCH |

**ALL OTHER HARDWARE BY DOOR MANUFACTURER**

|               |                                       |            |
|---------------|---------------------------------------|------------|
| WD 22851      | FILLMORE UNIFIED SCHOOL DISTRICT      | 12/12/2023 |
| DSA 03-123950 | FILLMORE HIGH SCHOOL ATHLETIC COMPLEX |            |