

**SPECIFICATIONS FOR LOCKS/DOORS/DOOR HARDWARE REPLACEMENT
WORCESTER PUBLIC SCHOOLS - DEPARTMENT OF FACILITIES MANAGEMENT AND
DEPARTMENT OF SCHOOL SAFETY**

BID #: 8844-M7

The City of Worcester is soliciting bids on behalf of Worcester Public Schools (WPS) for a project involving the integration of various safety features across their facilities.

This project's primary objective is to upgrade the door hardware at various Worcester Public School sites, encompassing multiple building locations, with the aim of using standardized products system wide. This includes the installation of new classroom locks with indicators, office locks, and panic hardware/exit devices.

The quantities listed are the quantities planned, and bidders shall provide a total lump sum price for all items/materials and installation services required herein.

PART 1 – SCOPE

1.1 SUMMARY

Replace specified hardware on identified doors at the following sites:

Belmont Street Community School, 170 Belmont Street, 01604

Canterbury Street Magnet Computer-based School, 129 Canterbury Street, 01603

Gates Lane School of International Studies, 1238 Main Street, 01603

Dr. Arthur F. Sullivan Middle School, 140 Apricot Street, 01603

1.2 ACTION SUBMITTALS

1.2.1 Permits:

Installer responsible for acquiring and payment for all required permitting necessary to complete the scope of work defined in these documents.

1.2.2 Mandatory Pre-Bid Conference:

A **mandatory** pre-bid walkthrough will be held **on, TBD, 2026 @ 3:00 P.M.**

The Pre-Bid Conference will begin at

- 1. Belmont Street Community School, 170 Belmont Street, 01604**

and then proceed to the following:

- 2. Canterbury Street Magnet Computer-based School, 129 Canterbury Street, 01603**
- 3. Gates Lane School of International Studies, 1238 Main Street, 01603**
- 4. Dr. Arthur F. Sullivan Middle School, 140 Apricot, 01603**

The walkthrough will last as long as it takes to visit all four schools but should not exceed more than 3 hours.

All Bidders or their representatives are to meet at the site in the front office at each school site and document attendance on the conference "sign-in" sheet. Attendees and District Representatives will inspect the site. Questions will not be entertained at the site. Questions must be submitted via email to the City's Purchasing Department contact as noted elsewhere in these specifications. Bids will be accepted and evaluated only from those bidders that have signed in and are present at the walk-through for all sites. Failure to attend the pre-bid conference will result in disqualification and rejection of the bid.

SPECIFICATIONS

INTERIOR DOORS AND HARDWARE REPLACEMENT AT MULTIPLE SCHOOL BUILDINGS

SECTION 087100 - DOOR HARDWARE

- GENERAL

○ SUMMARY

▪ Section includes:

- Mechanical and electrified door hardware
- Field verification, preparation and modification of existing doors and frames to receive new door hardware.

▪ Section excludes:

- Windows
- Cabinets (casework), including locks in cabinets
- Signage
- Toilet accessories
- Overhead doors

▪ Related Sections:

- Division 01 "General Requirements" sections for Allowances, Alternates, Owner Furnished Contractor Installed, Project Management and Coordination.
- Division 06 Section "Rough Carpentry"
- Division 06 Section "Finish Carpentry"
- Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
- Division 08 Sections:
 - "Metal Doors and Frames"
 - "Flush Wood Doors"
- Division 09 sections for touchup, finishing or refinishing of existing openings modified by this section.

○ REFERENCES

▪ UL LLC

- UL 10B - Fire Test of Door Assemblies
- UL 10C - Positive Pressure Test of Fire Door Assemblies
- UL 1784 - Air Leakage Tests of Door Assemblies
- UL 305 - Panic Hardware

▪ DHI - Door and Hardware Institute

- Sequence and Format for the Hardware Schedule
- Recommended Locations for Builders Hardware
- Keying Systems and Nomenclature
- Installation Guide for Doors and Hardware

- NFPA – National Fire Protection Association
 - NFPA 70 – National Electric Code
 - NFPA 80 – 2016 Edition – Standard for Fire Doors and Other Opening Protectives
 - NFPA 101 – Life Safety Code
 - NFPA 105 – Smoke and Draft Control Door Assemblies
 - NFPA 252 – Fire Tests of Door Assemblies
- ANSI - American National Standards Institute
 - ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
 - ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
 - ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
 - ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors
 - ANSI/SDI A250.8 - Standard Steel Doors and Frames
- SUBMITTALS
- General:
 - Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
 - 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.
 - Review drawings and Sections from related trades to verify compatibility with specified hardware.
 - Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.
- Action Submittals:
 - Product Data: Submit 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.
 - Samples for Verification: If requested by the Architect, submit a production sample of requested door hardware unit in the finish indicated and tagged with full description for coordination with schedule.
 - Samples will be returned to the supplier. Units that are acceptable to the Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.
 - Door Hardware Schedule:
 - Submit 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 critical in Project construction schedule.
 - Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
 - Indicate complete designations of each item required for each opening, include:
 - Door Index: door number, heading number, and Architect's hardware set number.
 - Quantity, type, style, function, size, and finish of each hardware item.
 - Name and manufacturer of each item.
 - Fastenings and other pertinent information.
 - Location of each hardware set cross-referenced to indications on Drawings.
 - Explanation of all abbreviations, symbols, and codes contained in schedule.
 - Mounting locations for hardware.
 - Door and frame sizes and materials.
 - Degree of door swing and handing.
 - Key Schedule:

- After the Keying Conference, provide a keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
 - Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
 - Provide 3 copies of the keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagrams and index each key to unique door designations.
 - Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
 - Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
 - Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.
- Informational Submittals:
 - Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
 - Provide Product Data:
 - Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
 - Include warranties for specified door hardware.
 - Closeout Submittals:
 - Operations and Maintenance Data: Provide in accordance with Division 01 and include:
 - Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
 - Catalog pages for each product.
 - Final approved hardware schedule edited to reflect conditions as installed.
 - Final keying schedule
 - Copy of warranties including appropriate reference numbers for manufacturers to identify project.
- QUALITY ASSURANCE
- Qualifications and Responsibilities:
 - Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
 - Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
 - Architectural Hardware Consultant: 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:
 - For door hardware: DHI certified AHC or DHC.
 - Can provide installation and technical data to Architects and other related subcontractors.
 - Can inspect and verify components are in working order upon completion of installation.
 - Single Source Responsibility: Obtain each type of door hardware from a single manufacturer.
 - Certifications:
 - 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 products tested by UL LLC, 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.
- Pre-Installation Meetings
 - Keying Conference
 - Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
 - Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
 - Preliminary key system schematic diagram.
 - Requirements for key control systems.
 - Address for delivery of keys.
- Regulatory Requirements:
 - Floor stops: Do not locate in the path of travel. Locate no more than 4 inches from walls, per DSA Policy #99-08 (Access).
 - Handles, pull, latches, locks, other operable parts:
 - Panic hardware: locate between 36 inches to 44 inches above the finished floor.
 - 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.
- DELIVERY, STORAGE, AND HANDLING
- Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping.
- Tag each item or package separately with identification coordinated with the final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.
- Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
- Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
- Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.
- Deliver keys to the owner.
- COORDINATION
- Existing Openings: Where existing doors, frames and/or hardware are to remain, field verify existing functions, conditions and preparations and coordinate to suit opening conditions and to provide proper door operation.
- WARRANTY
- Manufacturer's standard form in which the manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.

- Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
- Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
 - Mechanical Warranty
 - Locks
 - Schlage ND Series: 10 years
 - Exit Devices
 - Von Duprin: 3 years
 - Closers
 - LCN 4000 Series: 30 years

- MAINTENANCE

- Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.
- Turn over unused materials to the owner for maintenance purposes.

- PRODUCTS

- MANUFACTURERS

- The Owner requires use of certain products for their unique characteristics and project suitability to ensure 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."
- Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.
- Approval of alternate manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category are only to be considered by official substitution request in accordance with section 01 25 00.
- 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.
- 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.

- MATERIALS

- Fabrication
 - Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer's recognized installation standards for application intended.
 - Finish exposed 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.
- Modification and Preparation of Existing Doors: Where existing door hardware is indicated to be removed and reinstalled.

- Provide necessary fillers, Dutchmen, reinforcements, and fasteners, compatible with existing materials, as required for mounting new opening hardware and to cover existing door and frame preparations.
 - Use materials which match materials of adjacent modified areas.
 - When modifying existing fire-rated openings, provide materials permitted by NFPA 80 as required to maintain fire-rating.
- Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.
 - Where fasteners are exposed to view: Finish to match adjacent door hardware material.
- HINGES
- Manufacturers and Products:
 - Scheduled Manufacturer and Product:
 - Ives 5BB series
 - Acceptable Manufacturers and Products:
 - Hager BB1191/1279 series
 - McKinney TB series
- Requirements:
 - Provide hinges conforming to ANSI/BHMA A156.1.
 - Provide five knuckle, ball bearing hinges.
 - 1-3/4 inch (44 mm) thick doors:
 - Interior: Heavy weight, steel, 4-1/2 inches (114 mm) high
 - Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
 - 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.
 - Where new hinges are specified for existing doors or existing frames, provide new hinges of identical size to hinge preparation present in existing doors or existing frames.
- SURFACE BOLTS
- Manufacturers:
 - Scheduled Manufacturer:
 - Ives
 - Acceptable Manufacturers:
 - Burns
 - Trimco
- Requirements:
 - Surface bolts have 1" throw for maximum security with concealed mounting that prevents vandalism. Units to be constructed of heavy-duty steel and UL listed up to three (3) hours when used on the inactive door of a pair up to 8' in height.
- CYLINDRICAL LOCKS – GRADE 1
- Manufacturers and Products:
 - Scheduled Manufacturer and Product:

- Schlage ND series
- Acceptable Manufacturers and Products:
 - Sargent 11-Line
 - Best 9K series
- Requirements:
 - Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1, and UL Listed for 3-hour fire doors.
 - Indicators: Where specified, provide escutcheon with lock status indicator window on top of lockset rose:
 - Escutcheon height (including rose) 6.05 inches high by 3.68 inches wide.
 - Indicator window measuring a minimum 3.52-inch by .60 inch with 1.92 square-inches of front facing viewing area and 180-degree visibility with a total of .236 square-inches of total viewable area.
 - Provide snap-in serviceable windows to prevent tampering. Lock must function if indicator is compromised.
 - Provide messages color-coded with full text and symbol, as scheduled, for easy visibility.
 - Unlocked and Unoccupied message will display on white background, and Locked and Occupied message will display on red background.
 - Cylinders: Refer to "KEYING" article, herein.
 - 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.
 - Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
 - Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
 - Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
 - Provide electrified options as scheduled in the hardware sets.
 - Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.
 - Lever Design: Schlage Athens
- EXIT DEVICES
- Manufacturers and Products:
 - Scheduled Manufacturer and Product:
 - Von Duprin 98-series
 - Acceptable Manufacturers and Products:
 - Precision APEX 2000 series
 - Sargent 19-43-GL-80 series
- Requirements:
 - Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
 - Cylinders: Refer to "KEYING" article, herein.
 - Provide smooth touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
 - The touchpad must extend a minimum of one half of the door width. No plastic inserts are allowed in touchpads.
 - Provide exit devices with deadlatching features for security.
 - Provide exit devices with weather resistant components that can withstand harsh conditions of various climates.
 - Provide flush end caps for exit devices.
 - Provide exit devices with manufacturer's approved strikes.

- Provide exit devices cut to door width and height. Install exit devices at height recommended by the exit device manufacturer, allowable by governing building codes, and approved by the Architect.
- Mount mechanism cases flush on the face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off the face of the door, provide glass bead kits.
- Provide dogging features (or less dogging) as specified at non fire-rated openings.
- Provide exit devices with optional trim designs to match other lever and pull designs used on the project.
- Special Options:
 - SI
 - Provide dogging indicators and verify handing for visible indication of dogging status.
- CYLINDERS
- Manufacturers and Products:
 - Scheduled Manufacturer and Product:
 - Schlage Everest 29 T
 - Acceptable Manufacturers and Products:
 - No Substitute
- Requirements:
 - Provide cylinders/cores compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset; manufacturer's series as indicated. Refer to "KEYING" article, herein.
 - Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.
 - Patented Restricted: cylinder with full-size interchangeable core with patented, restricted keyway.
 - Patent Protection: Cylinders/cores requiring use of restricted, patented keys, patent protected.
 - Nickel silver bottom pins.
- KEYING
- Scheduled System:
 - Existing factory registered system:
 - Provide cylinders/cores keyed into Owner's existing Schlage factory registered keying system. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.
- Requirements:
 - Permanent Keying:
 - Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
 - Master Keying system as directed by the Owner.
 - Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to the owner.
 - Provide keys with the following features:
 - Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
 - Patent Protection: Keys and blanks protected by one or more utility patent(s).
 - Identification:
 - Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
 - Identification stamping provisions must be approved by the Architect and Owner.
 - 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.

- Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to the owner.
 - Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
- Quantity: Furnish in the following quantities.
 - Permanent Control Keys: 0.
 - Master Keys: 4.
 - Change (Day) Keys: 2 per cylinder/core that is keyed differently
 - Key Blanks: Quantity as determined in the keying meeting.
- DOOR CLOSERS
- Manufacturers and Products:
 - Scheduled Manufacturer and Product:
 - LCN 4040XP series
 - Acceptable Manufacturers and Products:
 - Norton 9500 series
 - Sargent 281 series
- Requirements:
 - Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certifies closers. Stamp units with date of manufacture code.
 - Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
 - Cylinder Body: 1-1/2-inch (38 mm) diameter piston with 5/8-inch (16 mm) diameter double heat-treated pinion journal. QR code with a direct link to maintenance instructions.
 - 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 a full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards. Provide snap-on cover clip, with plastic covers, that secures cover to spring tube.
 - Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck. Provide graphically labelled instructions on the closer body adjacent to each adjustment valve. Provide a positive stop on the reg valve that prevents the reg screw from being backed out.
 - Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
 - Pressure Relief Valve (PRV) Technology: Not permitted.
 - Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
 - 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.
 - Closers shall be capable of being upgraded by adding modular mechanical or electronic components in the field.
- PROTECTION PLATES
- Manufacturers:
 - Scheduled Manufacturer:
 - Ives

- Acceptable Manufacturers:

- Burns
- Trimco

- Requirements:

- Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
- Sizes plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
- At fire rated doors, provide protection plates over 16 inches high with UL label.

- FINISHES

- FINISH: BHMA 626/652 (US26D); EXCEPT:

- Protection Plates: BHMA 630 (US32D)
- Door Closers: Powder Coat to Match

- EXECUTION

- EXAMINATION

- 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. Verify doors, frames, and walls have been properly reinforced for hardware installation.
- 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.
- Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

- PREPARATION

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

- Field modify and prepare existing doors and frames for new hardware being installed.
- When modifications are exposed to view, use concealed fasteners, when possible.
- Prepare hardware locations and reinstall in accordance with installation requirements for new door hardware and with:
 - Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.
 - Wood Doors: DHI WDHS.5 "Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors."
 - Doors in rated assemblies: NFPA 80 for restrictions on on-site door hardware preparation.

- INSTALLATION

- Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
 - Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - Custom Steel Doors and Frames: HMMA 831.
 - Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
- Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.
- Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by the manufacturer.
 - Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
- Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.
- Lock Cylinders:
 - Furnish permanent cores to the owner for installation.
- Door Closers: Mount closers/operators on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers so they are not visible in corridors, lobbies and other public spaces unless approved by the Architect.

○ ADJUSTING

- 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.
 - Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
 - Adjust interior doors to open with not more than 5.0-pounds pressure to open.

○ CLEANING AND PROTECTION

- Clean adjacent surfaces soiled by door hardware installation.
- Clean operating items per manufacturer's instructions to restore proper function and finish.
- Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

○ DOOR HARDWARE SCHEDULE

- The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.
- Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the 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.
- Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.

Hardware Sets:

Hardware Sets are not in a numerical order. Missing set numbers will be scheduled in a later phase of this project. Determining handing on -2SI devices is the bidders responsibility.

HARDWARE SET: 01 - (PAIR - NEW SVR PANICS - LEVER WITH SECURITY INDICATOR FOR ACTIVE LEAF)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	FIRE EXIT HARDWARE	9827-EO-F-LBR-990-499F	626	VON
1	EA	FIRE EXIT HARDWARE	9827-L-F-2SI-LBRAFL-07-499F	626	VON
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	RIM CYL THUMBTURN, ADA	XB13-379	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL SURFACE VERTICAL ROD PANIC DEVICES
ON UNEQUAL PAIRS, INSTALL LEVER TRIM ON LARGER LEAF AND EXIT-ONLY DEVICE ON SMALL LEAF.
EO DEVICE WITH 990 EO PULL-SIDE BLANK PLATE TO COVER EXISTING PREP.
OWNER TO CONFIRM APPROVAL WITH AHJ.

OUTSIDE LEVER ON ACTIVE LEAF MAY BE LOCKED OR UNLOCKED BY KEY OUTSIDE OR THUMB-TURN INSIDE.
SECURITY INDICATOR TO SHOW STATUS OF OUTSIDE LEVER. FREE EGRESS THROUGH EITHER LEAF AT ALL
TIMES.

HARDWARE SET: 02 - (SINGLE DOOR - NEW ENTRY FUNCTION LOCK WITH INSIDE INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	ENTRANCE LOCK W/ INSIDE INDICATOR	ND53RD ATH IS-LOC	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL ENTRY LOCK WITH INDICATOR ON INSIDE OF DOOR.

HARDWARE SET: 03 - (PAIR - NEW SVR PANICS - DOGGING WITH SECURITY INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CDSI-9827-DT-LBR	626	VON
1	EA	PANIC HARDWARE	CDSI-9827-NL-LBR	626	VON
2	EA	MORTISE CYL TURN	09-900 114 XB11-720 36-083	626	SCH
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL SURFACE VERTICAL ROD PANIC DEVICES

RHR LEAF ACTIVE WITH 990NL PULL TRIM AND CYLINDER - INACTIVE LEAF TO HAVE 990DT PULL HANDLE ONLY, NO CYLINDER .

BOTH LEAVES MAY BE DOGGED BY THUMB-TURN INSIDE. SECURITY INDICATOR TO SHOW LOCKED/UNLOCKED STATUS. RHR LEAF WHEN LOCKED, ENTRY BY KEY. FREE EGRESS THROUGH EITHER LEAF AT ALL TIMES.

HARDWARE SET: 04 - (PAIR - NEW SVR PANICS - DOGGING WITH SECURITY INDICATOR FOR ACTIVE LEAF)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CDSI-9827-DT-LBR	626	VON
1	EA	PANIC HARDWARE	CDSI-9827-NL-LBR	626	VON
2	EA	MORTISE CYL TURN	09-900 114 XB11-720 36-083	626	SCH
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	MORTISE FILLER PLATE	EF-86	622	DON
1	EA	Strike Filler Plate	FS 260	622	DON
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL SURFACE VERTICAL ROD PANIC DEVICES

RHR LEAF ACTIVE WITH 990NL PULL TRIM AND CYLINDER - INACTIVE LEAF TO HAVE 990DT PULL HANDLE ONLY, NO CYLINDER .

FURNISH & INSTALL FILLER PLATES TO COVER EXISTING PREP.

BOTH LEAVES MAY BE DOGGED BY THUMB-TURN INSIDE. SECURITY INDICATOR TO SHOW LOCKED/UNLOCKED STATUS. RHR LEAF WHEN LOCKED, ENTRY BY KEY. FREE EGRESS THROUGH EITHER LEAF AT ALL TIMES.

HARDWARE SET: 05 - (SINGLE DOOR - NEW ENTRY LOCK WITH WRAP-PLATE- NO INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	Don-Jo Wrap Around	4 2 CW	630	DON
1	EA	ENTRANCE LOCK	ND53RD ATH	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL ENTRY LOCK WITH WRAP PLATE TO COVER EXISTING HOLE PREP.

HARDWARE SET: 10 - (SINGLE DOOR - NEW RIM PANIC WITH SECURITY INDICATOR DOGGING)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CDSI-98-NL	626	VON
1	EA	MORTISE CYL TURN	09-900 114 XB11-720 36-083	626	SCH
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL RIM PANIC DEVICE WITH NL TRIM.

EXIT DEVICE MAY BE DOGGED BY THUMB-TURN INSIDE. SECURITY INDICATOR TO SHOW LOCKED/UNLOCKED STATUS. WHEN LOCKED, ENTRY BY KEY. FREE EGRESS AT ALL TIMES.

HARDWARE SET: 11 - (SINGLE DOOR - NEW ENTRY LOCK WITH WRAP-PLATE - INSIDE INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	Don-Jo Wrap Around	4 2 CW	630	DON
1	EA	ENTRANCE LOCK W/ INSIDE INDICATOR	ND53RD ATH IS-LOC	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL ENTRY LOCK WITH INDICATOR ON INSIDE OF DOOR.
UNIQUE EXISTING STRIKES MAY NEED TO BE REUSED.

HARDWARE SET: 12 - (EXISTING DOOR - PADLOCK ONLY)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	Flexible double-hinge steel security hasp	855118		SCH
1	EA	PADLOCK L/CYL-FSIC	KS43D3200	606	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL FSIC PADLOCK WITH HASP.

HARDWARE SET: 17 - (SINGLE DOOR - NEW STOREROOM LOCK AND WRAP PLATE)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	Don-Jo Wrap Around	4 2 CW	630	DON
1	EA	STOREROOM LOCK	ND80RD ATH	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL STOREROOM LOCK WITH WRAP PLATE TO COVER EXISTING HOLE PREP.

HARDWARE SET: 19 - (PAIR - NEW ENTRY LOCKS, WRAP PLATES, AND CLOSERS - INSIDE INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	Don-Jo Wrap Around	4 2 CW	630	DON
2	EA	ENTRANCE LOCK W/ INSIDE INDICATOR	ND53RD ATH IS-LOC	626	SCH
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL ENTRY LOCK WITH INDICATOR ON INSIDE OF DOOR.
FURNISH & INSTALL WRAP PLATE TO COVER EXISTING HOLE PREP.
FURNISH & INSTALL 4040XP DOOR CLOSERS

HARDWARE SET: 23 - (SINGLE DOOR - NEW CYLINDER FOR EXISTING LOCK)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	RIM CYLINDER	20-057 EV29 T	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL RIM CYLINDER ON EXISTING LOCK.

HARDWARE SET: 25 - (SINGLE - NEW RIM PANIC DEVICE WITH INDICATOR DOGGING)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	Don-Jo Mortise Edge Filler	EF 86		DON
1	EA	PANIC HARDWARE	CDSI-98-NL-4'	626	VON
1	EA	MORTISE CYL TURN	09-900 114 XB11-720 36-083	626	SCH
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	Strike Filler Plate	FS 260	622	DON
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL RIM PANIC DEVICE WITH NL TRIM.
FURNISH & INSTALL FILLER PLATES TO COVER EXISTING HOLE PREP.

HARDWARE SET: 26 - (SINGLE DOOR - NEW PRIVACY LOCK WITH WRAP PLATE - OUTSIDE INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	Don-Jo Wrap Around	4 2 CW	630	DON
1	EA	PRIVACY LOCK W/ OUTSIDE INDICATOR	ND40D ATH 13-247 OS-OCC	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL PRIVACY LOCK WITH OUTSIDE INDICATOR.
FURNISH & INSTALL WRAP PLATE TO COVER EXISTING HOLE PREP.

HARDWARE SET: 28 - (SINGLE DOOR - NEW DEADBOLT AND WRAP PLATE - OUTSIDE INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM DEADBOLT W/ OUTSIDE INDICATOR	B663R 12-631 OS-LOC	626	SCH
1	EA	WRAP AROUND PLATE	4 CW	630	DON
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL DEADBOLT WITH OUTSIDE INDICATOR.

FURNISH & INSTALL WRAP PLATE TO COVER EXISTING HOLE PREP.

HARDWARE SET: 30 - (PAIR - NEW PANIC HARDWARE WITH LOCKABLE LEVER - INSIDE INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	FIRE EXIT HARDWARE	98-L-F-2SI-07	626	VON
2	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
2	EA	RIM CYL THUMBTURN, ADA	XB13-379	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL RIM PANIC DEVICE WITH SECURITY INDICATOR.

OUTSIDE LEVERS MAY BE LOCKED OR UNLOCKED BY KEY OUTSIDE OR THUMB-TURN INSIDE. SECURITY INDICATOR TO SHOW STATUS OF OUTSIDE LEVER. FREE EGRESS THROUGH EITHER LEAF AT ALL TIMES.

HARDWARE SET: 31 - (PAIR - NEW SVR PANICS - LEVER WITH SECURITY INDICATOR FOR BOTH LEAVES)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	FIRE EXIT HARDWARE	9827-L-F-2SI-LBRAFL-07-499F	626	VON
2	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
2	EA	RIM CYL THUMBTURN, ADA	XB13-379	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL SURFACE VERTICAL ROD PANIC DEVICES WITH LEVER TRIM.

BOTH LEAVES ACTIVE

OWNER TO CONFIRM APPROVAL WITH AHJ.

OUTSIDE LEVERS MAY BE LOCKED OR UNLOCKED BY KEY OUTSIDE OR THUMB-TURN INSIDE. SECURITY INDICATOR TO SHOW STATUS OF OUTSIDE LEVER. FREE EGRESS THROUGH EITHER LEAF AT ALL TIMES.

HARDWARE SET: 32 - (SINGLE - NEW CYLINDER FOR EXISTING LOCK)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE CYLINDER	30-138 X L583-255 CKC EV29 T 36-083 36-082-037	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FINISH & INSTALL MORTISE CYLINDER ON EXISTING LOCK.

HARDWARE SET: 33 - (PAIR - NEW PANICS WITH DOGGING - INSIDE INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CDSI-98-DT	626	VON
1	EA	PANIC HARDWARE	CDSI-98-NL	626	VON
2	EA	MORTISE CYL TURN	09-900 114 XB11-720 36-083	626	SCH
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

RHR LEAF ACTIVE WITH PULL TRIM - LHR LEAF DT TRIM.
FURNISH & INSTALL EXIT DEVICES WITH CYLINDER DOGGING SECURITY INDICATORS.

ACTIVE LEAF MAY BE DOGGED BY THUMB-TURN INSIDE. SECURITY INDICATOR TO SHOW LOCKED/UNLOCKED STATUS. WHEN LOCKED, ENTRY BY KEY. FREE EGRESS THROUGH EITHER LEAF AT ALL TIMES.

HARDWARE SET: 34 - (PAIR - NEW PANICS WITH DOGGING AND MULLION - INSIDE INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	REMOVABLE MULLION	KR4954	622	VON
1	EA	PANIC HARDWARE	CDSI-98-DT	626	VON
1	EA	PANIC HARDWARE	CDSI-98-NL	626	VON
2	EA	MORTISE CYL TURN	09-900 114 XB11-720 36-083	626	SCH
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	MORTISE CYLINDER	26-091 X K510-730 EV29 T 36-083	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

RHR LEAF ACTIVE WITH PULL TRIM - LHR LEAF DT TRIM.
FURNISH & INSTALL RIM PANIC DEVICES WITH CYLINDER DOGGING SECURITY INDICATORS.
FURNISH & INSTALL KEYED REMOVABLE MULLION.

DEVICES MAY BE DOGGED BY THUMB-TURNS INSIDE. SECURITY INDICATOR TO SHOW LOCKED/UNLOCKED STATUS. WHEN LOCKED, ENTRY BY KEY. FREE EGRESS THROUGH EITHER LEAF AT ALL TIMES.

HARDWARE SET: 35 - (PAIR - NEW SVR PANICS - DOGGING WITH SECURITY INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CDSI-9827-DT-LBR	626	VON
1	EA	PANIC HARDWARE	CDSI-9827-NL-LBR	626	VON
2	EA	STRIKE	260U	US19	VON
2	EA	MORTISE CYL TURN	09-900 114 XB11-720 36-083	626	SCH
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

RHR LEAF ACTIVE WITH PULL TRIM - LHR LEAF DT TRIM.
FURNISH & INSTALL SURFACE VERTICAL ROD PANIC DEVICES WITH CYLINDER DOGGING SECURITY INDICATORS.
FURNISH 260U STRIKES FOR FLUSH TRANSOM APPLICATION WHERE APPLICABLE.

BOTH LEAVES MAY BE DOGGED BY THUMB-TURNS INSIDE. SECURITY INDICATOR TO SHOW LOCKED/UNLOCKED STATUS. WHEN LOCKED, ENTRY BY KEY. FREE EGRESS THROUGH EITHER LEAF AT ALL TIMES.

HARDWARE SET: 37 - (SINGLE DOOR - NEW RIM PANIC WITH LEVER TRIM AND SECURITY INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	FIRE EXIT HARDWARE	98-L-F-4'-2SI-07	626	VON
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	RIM CYL THUMBTURN, ADA	XB13-379	626	SCH
1	EA	MORTISE FILLER PLATE	EF-86	622	DON
1	EA	Strike Filler Plate	FS 260	622	DON
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL RIM PANIC DEVICE WITH SECURITY INDICATOR.
USE ON STAIRWELLS REQUIRES AHJ APPROVAL.

OUTSIDE LEVER MAY BE LOCKED OR UNLOCKED BY KEY OUTSIDE OR THUMB-TURN INSIDE. SECURITY INDICATOR TO SHOW STATUS OF OUTSIDE LEVER. FREE EGRESS AT ALL TIMES.

HARDWARE SET: 38 - (PAIR - NEW SVR PANICS - LEVER WITH SECURITY INDICATOR FOR ACTIVE LEAF)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	FIRE EXIT HARDWARE	9827-EO-F-LBR-990-499F	626	VON
1	EA	FIRE EXIT HARDWARE	9827-L-F-2SI-LBRAFL-07-499F	626	VON
2	EA	STRIKE	260U	US19	VON
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	RIM CYL THUMBTURN, ADA	XB13-379	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

UNEQUAL PAIRS ACTIVE TRIM ON LARGER LEAF - EXIT ONLY ON SMALL LEAF.
FURNISH & INSTALL EO PANIC DEVICE WITH 990 EO PULL-SIDE BLANK PLATE TO COVER EXISTING PREP.
WPS TO CONFIRM APPROVAL WITH AHJ.

OUTSIDE LEVER ON ACTIVE LEAF MAY BE LOCKED OR UNLOCKED BY KEY OUTSIDE OR THUMB-TURN INSIDE.
SECURITY INDICATOR TO SHOW STATUS OF OUTSIDE LEVER. FREE EGRESS THROUGH EITHER LEAF AT ALL TIMES.

HARDWARE SET: 39 - (SINGLE - NEW RIM PANIC DEVICE WITH LOCKING LEVER AND INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	Don-Jo Mortise Edge Filler	EF 86		DON
1	EA	FIRE EXIT HARDWARE	98-L-F-2SI-07	626	VON
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	RIM CYL THUMBTURN, ADA	XB13-379	626	SCH
1	EA	Strike Filler Plate	FS 260	622	DON
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL RIM PANIC DEVICE WITH SECURITY INDICATOR.
FURNISH & INSTALL FILLER PLATES TO COVER EXISTING HOLE PREP.
USE ON STAIRWELLS REQUIRES AHJ APPROVAL.

OUTSIDE LEVER MAY BE LOCKED OR UNLOCKED BY KEY OUTSIDE OR THUMB-TURN INSIDE. SECURITY INDICATOR TO SHOW STATUS OF OUTSIDE LEVER. FREE EGRESS AT ALL TIMES.

HARDWARE SET: 40 - (PAIR - NEW SVR PANICS - DOGGING WITH SECURITY INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CDSI-9827-DT-LBR	626	VON
2	EA	STRIKE	260U	US19	VON
1	EA	DOGGING KIT	DOGGING KIT-CDSIK-99	628	VON
2	EA	MORTISE CYL TURN	09-900 114 XB11-720 36-083	626	SCH
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL CDSI DOGGING KIT TO EXISTING PANIC DEVICE.

FURNISH & INSTALL RIM CYLINDER INTO EXISTING TRIM.

FURNISH & INSTALL 260U STRIKES.

FURNISH & INSTALL CDSI EXIT DEVICE TO LHR LEAF.

BOTH LEAVES MAY BE DOGGED BY THUMB-TURN INSIDE. SECURITY INDICATOR TO SHOW LOCKED/UNLOCKED STATUS. WHEN LOCKED, ENTRY BY KEY. FREE EGRESS THROUGH EITHER LEAF AT ALL TIMES.

HARDWARE SET: 41 - (PAIR - EXISTING HARDWARE - MODIFICATIONS NEEDED)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	TRIM	990-DT	US26	VON
2	EA	DOGGING KIT	DOGGING KIT-CDSIK-99	628	VON
2	EA	MORTISE CYL TURN	09-900 114 XB11-720 36-083	626	SCH
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL CDSI DOGGING KITS TO EXISTING PANIC DEVICES

FURNISH & INSTALL 990 DT TRIM TO LHR LEAF

FURNISH & INSTALL RIM CYLINDER INTO EXISTING TRIM

BOTH LEAVES MAY BE DOGGED BY THUMB-TURN INSIDE. SECURITY INDICATOR TO SHOW LOCKED/UNLOCKED STATUS. WHEN LOCKED, ENTRY BY KEY. FREE EGRESS THROUGH EITHER LEAF AT ALL TIMES.

HARDWARE SET: 42 - (PAIR - NEW RIM PANICS - LEVER WITH SECURITY INDICATOR FOR ACTIVE LEAF)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	FIRE EXIT HARDWARE	98-EO-F-990	626	VON
1	EA	FIRE EXIT HARDWARE	98-L-F-2SI-07	626	VON
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	RIM CYL THUMBTURN, ADA	XB13-379	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

UNEQUAL PAIRS ACTIVE TRIM ON LARGER LEAF - EXIT ONLY ON SMALL LEAF.

FURNISH & INSTALL EO PANIC DEVICE WITH 990 EO PULL-SIDE BLANK PLATE TO COVER EXISTING PREP.

WPS TO CONFIRM APPROVAL WITH AHJ.

OUTSIDE LEVER ON ACTIVE LEAF MAY BE LOCKED OR UNLOCKED BY KEY OUTSIDE OR THUMB-TURN INSIDE. SECURITY INDICATOR TO SHOW STATUS OF OUTSIDE LEVER. FREE EGRESS THROUGH EITHER LEAF AT ALL TIMES.

HARDWARE SET: 43 - (SINGLE - EXISTING HARDWARE - MODIFICATIONS NEEDED)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE CYLINDER	30-138 X L583-255 CKC EV29 T 36-083 36-082-037	626	SCH
1	EA	SERVICE PART	09-671 626	626	SCH
1	EA	SERVICE PART	47804357 626	626	SCH
1	EA	SERVICE PART	K110-020		SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL MORTISE CYLINDER ON EXISTING LOCK.
FINISH & INSTALL ARMOR FRONT WITH SCREWS.
FURNISH & INSTALL SECURITY THUMB TURN INDICATOR ON INSIDE.

HARDWARE SET: 52 - (SINGLE - EXISTING HARDWARE - MODIFICATIONS NEEDED)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	DEADBOLT FILLER PLATE	BF 161	622	DON
2	EA	EDGE FILLER	EF161	PRI	DON
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

REMOVE EXISTING DEADBOLT.
FINISH & INSTALL DEADBOLT FILLER AND EDGE FILLER PLATES.

HARDWARE SET: 55 - (SINGLE - NEW DEADBOLT)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	SGL CYL DEADBOLT	B660R	626AM	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

REMOVE EXISTING RIM DEADBOLT.
FURNISH & INSTALL DEADBOLT.

HARDWARE SET: 57 - (SINGLE - EXISTING HARDWARE - MODIFICATIONS NEEDED)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	DEADBOLT FILLER PLATE	BF 161	622	DON
1	EA	EDGE FILLER	EF161	PRI	DON
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

REMOVE EXISTING DEADBOLT.
FURNISH & INSTALL FILLER PLATES.

HARDWARE SET: 61 - (SINGLE - EXISTING HARDWARE - CYLINDER ONLY)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE CYLINDER	20-059 X B520-296	626	SCH
1	EA	FSIC CORE	23-030 CKC EV29 T	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL MORTISE CYLINDER TO EXISTING LOCK.

HARDWARE SET: 63 - (SINGLE - EXISTING HARDWARE - CYLINDER AND PARTS)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE CYLINDER	30-138 X L583-255 CKC EV29 T 36-083 36-082-037	626	SCH
1	EA	SERVICE PART	09-671 626	626	SCH
1	EA	SERVICE PART	K110-020		SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL MORTISE CYLINDER TO EXISTING LOCK.
FURNISH AND INSTALL ARMOR FRONT WITH SCREWS.

HARDWARE SET: 64 - (PAIR - EXISTING HARDWARE - CYLINDERS AND PARTS)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	LESS DOGGING COVER PLATE KIT	050589	626	VON
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	MORTISE CYLINDER	26-091 X K510-730 CKC EV29 T 36-083	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL RIM CYLINDER ON EXISTING TRIM.
FURNISH & INSTALL MORTISE CYLINDER IN EXISTING KEYED REMOVABLE MULLION.
FURNISH & INSTALL LESS DOGGING COVER PLATES.

HARDWARE SET: 65 - (PAIR - EXISTING HARDWARE - NEW CYLINDERS)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

INSTALL RIM CYLINDERS ON EXISTING PANIC BARS.

HARDWARE SET: 66 - (SINGLE - NEW INSTITUTION LOCK AND WRAP PLATE)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	Don-Jo Wrap Around	4 2 CW	630	DON
1	EA	INSTITUTION LOCK	ND82RD ATH	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL INSTITUTIONAL LOCK.

FURNISH & INSTALL WRAP PLATE TO COVER EXISTING HOLE PREPS.

HARDWARE SET: 69 - (SINGLE - EXISTING LOCK - NEW CYLINDER AND INDICATOR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE CYLINDER	30-138 X L583-255 CKC EV29 T 36-083 36-082-037	626	SCH
1	EA	SERVICE PART	47804357 626	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL MORTISE CYLINDER TO EXISTING LOCK.

FURNISH AND INSTALL INSIDE THUMBTURN INDICATOR.

HARDWARE SET: 84 - (PAIR - NEW SVR PANICS - DOGGING WITH SECURITY INDICATOR FOR BOTH LEAVES)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CDSI-9827-DT-LBR	626	VON
1	EA	PANIC HARDWARE	CDSI-9827-NL-LBR	626	VON
2	EA	MORTISE CYL TURN	09-900 114 XB11-720 36-083	626	SCH
1	EA	RIM CYLINDER	20-057 CKC EV29 T	626	SCH
2	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH & INSTALL SURFACE VERTICAL ROD PANIC DEVICES.

RHR LEAF ACTIVE WITH 990NL PULL TRIM AND CYLINDER - INACTIVE LEAF TO HAVE 990DT PULL HANDLE ONLY, NO CYLINDER.

TEMPLATE CLOSERS FOR 90-DEGREE STOP/HOLD.

AT S-123, EXISTING OVERLAPPING ASTRAGAL MUST BE REMOVED.

BOTH LEAVES MAY BE DOGGED BY THUMB-TURN INSIDE. SECURITY INDICATOR TO SHOW LOCKED/UNLOCKED STATUS. RHR LEAF WHEN LOCKED, ENTRY BY KEY. FREE EGRESS THROUGH EITHER LEAF AT ALL TIMES.

HARDWARE SET: 85 - (EXISTING HARDWARE - CYLINDER ONLY REQUIRED)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE CYLINDER	20-062 X K510-711 CKC EV29 T 36-082-018 36-082-037	626	SCH
1	EA	BALANCE OF HARDWARE	EXISTING TO REMAIN		EXI

FURNISH NEW MORTISE CYLINDER FOR EXISTING LOCK.

END OF SECTION

Door Hardware Schedule:

Prepared by or under the supervision of Installer, detailing fabrication and assembly of door hardware, as well as installation procedures and diagrams. Coordinate final door hardware schedule with doors, frames, and related work to ensure proper size, thickness, handing, function, and finish of door hardware.

Worcester Public Schools – Hardware Upgrade - Phase 3B

SCHOOL DESCRIPTION	DOOR #	HW SET #
BELMONT	B-1	05
BELMONT	B-2	05
BELMONT	B-4	05
BELMONT	B-5	05
BELMONT	B-6	05
BELMONT	B-7	05
BELMONT	B-9	05
BELMONT	B-10	05
BELMONT	B-12	05
BELMONT	B-13	11
SCHOOL DESCRIPTION	DOOR #	HW SET #
BELMONT	B-14	11
BELMONT	B-15	11
BELMONT	B-16	05
BELMONT	B-17	05
BELMONT	B-18	65
BELMONT	B-19	65
BELMONT	B-20	64
BELMONT	B-21	17
BELMONT	B-22	17
BELMONT	B-22	17
BELMONT	B-23	12
BELMONT	B-24	05
BELMONT	B-25	12

BELMONT	B-26	17
BELMONT	B-27	05
BELMONT	B-31	05
BELMONT	B-32	05
BELMONT	B-32A	05
BELMONT	B-33	28
BELMONT	B-34	05
BELMONT	B-35	28
BELMONT	B-36	11
BELMONT	B-37	17
BELMONT	B-38	37
BELMONT	B-40	11
BELMONT	B-41	66
BELMONT	B-42	37
SCHOOL DESCRIPTION	DOOR #	HW SET #
BELMONT	B-43	25
BELMONT	B-44	05
BELMONT	B-44A	61
BELMONT	B-45	05
BELMONT	B-46	05
BELMONT	B-47	17
BELMONT	B-48	05
BELMONT	B-49	11
BELMONT	B-50	37
BELMONT	B-51	12
BELMONT	B-52	05
BELMONT	B-53	11
BELMONT	B-55	05
BELMONT	B-57	40

BELMONT	B-58	41
BELMONT	B-59	05
BELMONT	B-60	05
BELMONT	B-61	05
BELMONT	B-64	35
BELMONT	B-65	05
BELMONT	B-66	05
BELMONT	B-68	11
BELMONT	B-69	17
BELMONT	B-70	11
BELMONT	B-72	02
BELMONT	B-73	11
BELMONT	B-74	11
SCHOOL DESCRIPTION	DOOR #	HW SET #
BELMONT	B-75	11
BELMONT	B-76	11
BELMONT	B-77	05
BELMONT	B-79	05
BELMONT	B-80	05
BELMONT	B-81	03
BELMONT	B-82	11
BELMONT	B-83	11
BELMONT	B-84	37
BELMONT	B-85	23
BELMONT	B-88	11
BELMONT	B-89	28
BELMONT	B-90	05
BELMONT	B-91	28
BELMONT	B-92	11

BELMONT	B-93	05
BELMONT	B-96	05
BELMONT	B-97	05
BELMONT	B-98	28
BELMONT	B-99	05
BELMONT	B-100	11
BELMONT	B-101	11
BELMONT	B-102	28
BELMONT	B-103	37
BELMONT	B-105	11
BELMONT	B-106	05
BELMONT	B-107	05
SCHOOL DESCRIPTION	DOOR #	HW SET #
BELMONT	B-112	05
BELMONT	B-113	28
BELMONT	B-114	05
BELMONT	B-115	28
BELMONT	B-116	11
BELMONT	B-117	28
BELMONT	B-118	05
BELMONT	B-119	28
BELMONT	B-124	12
BELMONT	B-125	05
BELMONT	B-126	12
BELMONT	B-127	11
BELMONT	B-128	37
BELMONT	B-129	05
BELMONT	B-130	05
BELMONT	B-131	38

BELMONT	B-132	05
BELMONT	B-133	11
BELMONT	B-134	05
BELMONT	B-135	11
BELMONT	B-136	04
BELMONT	B-137	04
BELMONT	B-139	28
BELMONT	B-140	01
BELMONT	B-141	05
BELMONT	B-142	28
BELMONT	B-143	11
SCHOOL DESCRIPTION	DOOR #	HW SET #
BELMONT	B-144	01
BELMONT	B-145	11
BELMONT	B-146	11
BELMONT	B-147	11
BELMONT	B-149	11
BELMONT	B-150	28
BELMONT	B-151	11
BELMONT	B-153	37
BELMONT	B-154	05
BELMONT	B-155	05
BELMONT	B-161	05
BELMONT	B-162	28
BELMONT	B-163	05
BELMONT	B-164	28
BELMONT	B-165	28
BELMONT	B-166	05
BELMONT	B-167	28

BELMONT	B-168	05
BELMONT	B-174	05
BELMONT	B-175	05
BELMONT	B-176	39
BELMONT	B-177	17
BELMONT	B-178	05
BELMONT	B-179	17
BELMONT	B-180	17
BELMONT	B-181	11
BELMONT	B-183	05
SCHOOL DESCRIPTION	DOOR #	HW SET #
BELMONT	B-185	05
BELMONT	B-188	05
BELMONT	B-190	05
BELMONT	B-192	05
BELMONT	B-193	28
BELMONT	B-194	11
BELMONT	B-195	28
CANTERBURY	CS-1	17
CANTERBURY	CS-2	01
CANTERBURY	CS-3	17
CANTERBURY	CS-4	28
CANTERBURY	CS-5	05
CANTERBURY	CS-6	28
CANTERBURY	CS-7	05
CANTERBURY	CS-8	26
CANTERBURY	CS-9	05
CANTERBURY	CS-10	05

CANTERBURY	CS-11	05
CANTERBURY	CS-15	11
CANTERBURY	CS-16	17
CANTERBURY	CS-17	31
CANTERBURY	CS-18	31
CANTERBURY	CS-19	11
CANTERBURY	CS-21	11
CANTERBURY	CS-23	11
CANTERBURY	CS-24	11
SCHOOL DESCRIPTION	DOOR #	HW SET #
CANTERBURY	CS-25	11
CANTERBURY	CS-26	05
CANTERBURY	CS-28	05
CANTERBURY	CS-29	11
CANTERBURY	CS-30	11
CANTERBURY	CS-31	05
CANTERBURY	CS-32	11
CANTERBURY	CS-33	05
CANTERBURY	CS-34	31
CANTERBURY	CS-35	03
CANTERBURY	CS-36	05
CANTERBURY	CS-37	01
CANTERBURY	CS-38	01
CANTERBURY	CS-39	11
CANTERBURY	CS-40	11
CANTERBURY	CS-41	11
CANTERBURY	CS-42	11
CANTERBURY	CS-44	11
CANTERBURY	CS-45	11

CANTERBURY	CS-46	05
CANTERBURY	CS-47	11
CANTERBURY	CS-48	28
CANTERBURY	CS-49	05
CANTERBURY	CS-50	11
CANTERBURY	CS-51	28
CANTERBURY	CS-52	28
CANTERBURY	CS-53	05
SCHOOL DESCRIPTION	DOOR #	HW SET #
CANTERBURY	CS-55	05
CANTERBURY	CS-57	05
CANTERBURY	CS-58	05
CANTERBURY	CS-59	17
CANTERBURY	CS-60	05
CANTERBURY	CS-61	28
CANTERBURY	CS-62	05
CANTERBURY	CS-63	05
CANTERBURY	CS-64	05
CANTERBURY	CS-66	01
CANTERBURY	CS-67	17
CANTERBURY	CS-68	01
CANTERBURY	CS-69	11
CANTERBURY	CS-70	11
CANTERBURY	CS-71	11
CANTERBURY	CS-72	11
CANTERBURY	CS-74	11
CANTERBURY	CS-75	11
CANTERBURY	CS-76	11
CANTERBURY	CS-77	11

CANTERBURY	CS-78	05
CANTERBURY	CS-79	17
CANTERBURY	CS-80	11
CANTERBURY	CS-81	11
CANTERBURY	CS-82	28
CANTERBURY	CS-83	05
CANTERBURY	CS-84	11
SCHOOL DESCRIPTION	DOOR #	HW SET #
CANTERBURY	CS-85	28
CANTERBURY	CS-86	28
CANTERBURY	CS-87	11
CANTERBURY	CS-88	17
CANTERBURY	CS-89	05
CANTERBURY	CS-89A	28
CANTERBURY	CS-90	05
CANTERBURY	CS-91	11
CANTERBURY	CS-92	01
CANTERBURY	CS-93	11
CANTERBURY	CS-94	11
CANTERBURY	CS-95	11
CANTERBURY	CS-96	11
CANTERBURY	CS-97	05
CANTERBURY	CS-98	01
GATES LANE	GL-1	42
GATES LANE	GL-2	05
GATES LANE	GL-3	11
GATES LANE	GL-4	05
GATES LANE	GL-5	16

GATES LANE	GL-6	16
GATES LANE	GL-7	05
GATES LANE	GL-8	05
GATES LANE	GL-9	30
GATES LANE	GL-10	30
GATES LANE	GL-11	11
SCHOOL DESCRIPTION	DOOR #	HW SET #
GATES LANE	GL-12	11
GATES LANE	GL-17	11
GATES LANE	GL-18	11
GATES LANE	GL-19	05
GATES LANE	GL-20	05
GATES LANE	GL-20A	05
GATES LANE	GL-21	05
GATES LANE	GL-22	05
GATES LANE	GL-23	05
GATES LANE	GL-24	05
GATES LANE	GL-25	05
GATES LANE	GL-26	05
GATES LANE	GL-27	05
GATES LANE	GL-28	05
GATES LANE	GL-30	57
GATES LANE	GL-31	11
GATES LANE	GL-32	57
GATES LANE	GL-33	11
GATES LANE	GL-36	11
GATES LANE	GL-37	17
GATES LANE	GL-38	17
GATES LANE	GL-39	05

GATES LANE	GL-40	05
GATES LANE	GL-40A	17
GATES LANE	GL-40C	85
GATES LANE	GL-40D	85
GATES LANE	GL-40E	85
SCHOOL DESCRIPTION	DOOR #	HW SET #
GATES LANE	GL-41	05
GATES LANE	GL-42	05
GATES LANE	GL-43	17
GATES LANE	GL-44	26
GATES LANE	GL-45	05
GATES LANE	GL-46	11
GATES LANE	GL-47	26
GATES LANE	GL-48	26
GATES LANE	GL-49	42
GATES LANE	GL-50	30
GATES LANE	GL-51	30
GATES LANE	GL-52	42
GATES LANE	GL-53	11
GATES LANE	GL-54	11
GATES LANE	GL-55	11
GATES LANE	GL-56	11
GATES LANE	GL-57	11
GATES LANE	GL-58	11
GATES LANE	GL-59	11
GATES LANE	GL-60	11
GATES LANE	GL-61	11
GATES LANE	GL-62	05
GATES LANE	GL-63	11

GATES LANE	GL-65	11
GATES LANE	GL-65A	52
GATES LANE	GL-66	17
GATES LANE	GL-67	17
SCHOOL DESCRIPTION	DOOR #	HW SET #
GATES LANE	GL-68	05
GATES LANE	GL-69	11
GATES LANE	GL-70	19
GATES LANE	GL-71	05
GATES LANE	GL-72	05
GATES LANE	GL-73	11
GATES LANE	GL-74	42
GATES LANE	GL-75	42
GATES LANE	GL-76	11
GATES LANE	GL-77	11
GATES LANE	GL-78	11
GATES LANE	GL-79	11
GATES LANE	GL-80	11
GATES LANE	GL-81	11
GATES LANE	GL-82	11
GATES LANE	GL-83	11
GATES LANE	GL-84	05
GATES LANE	GL-85	11
GATES LANE	GL-86	11
GATES LANE	GL-87	52
GATES LANE	GL-88	11
GATES LANE	GL-89	17
GATES LANE	GL-90	17
GATES LANE	GL-91	11

GATES LANE	GL-92	11
GATES LANE	GL-93	05
GATES LANE	GL-94	11
SCHOOL DESCRIPTION	DOOR #	HW SET #
GATES LANE	GL-95	11
GATES LANE	GL-96	11
GATES LANE	GL-97	11
GATES LANE	GL-98	42
GATES LANE	GL-99	42
GATES LANE	GL-100	11
GATES LANE	GL-101	11
GATES LANE	GL-102	11
GATES LANE	GL-103	11
GATES LANE	GL-104	11
GATES LANE	GL-105	11
GATES LANE	GL-106	11
GATES LANE	GL-107	11
GATES LANE	GL-108	11
GATES LANE	GL-109	05
GATES LANE	GL-110	11
GATES LANE	GL-112	11
GATES LANE	GL-113	17
GATES LANE	GL-114	17
GATES LANE	GL-115	11
GATES LANE	GL-116	11
GATES LANE	GL-117	05
GATES LANE	GL-118	11
GATES LANE	GL-119	11
GATES LANE	GL-120	11

GATES LANE	GL-121	11
GATES LANE	GL-122	42
SCHOOL DESCRIPTION	DOOR #	HW SET #
SULLIVAN MIDDLE	S-1	69
SULLIVAN MIDDLE	S-2	69
SULLIVAN MIDDLE	S-3	69
SULLIVAN MIDDLE	S-4	69
SULLIVAN MIDDLE	S-5	69
SULLIVAN MIDDLE	S-6	69
SULLIVAN MIDDLE	S-7	32
SULLIVAN MIDDLE	S-8	32
SULLIVAN MIDDLE	S-9	32
SULLIVAN MIDDLE	S-10	32
SULLIVAN MIDDLE	S-11	32
SULLIVAN MIDDLE	S-12	32
SULLIVAN MIDDLE	S-13	32
SULLIVAN MIDDLE	S-14	69
SULLIVAN MIDDLE	S-15	69
SULLIVAN MIDDLE	S-16	69
SULLIVAN MIDDLE	S-17	32
SULLIVAN MIDDLE	S-18	69
SULLIVAN MIDDLE	S-20	69
SULLIVAN MIDDLE	S-21	69
SULLIVAN MIDDLE	S-22	69
SULLIVAN MIDDLE	S-23	69
SULLIVAN MIDDLE	S-24	69
SULLIVAN MIDDLE	S-25	69
SULLIVAN MIDDLE	S-26	11
SULLIVAN MIDDLE	S-27	11

SULLIVAN MIDDLE	S-28	69
SCHOOL DESCRIPTION	DOOR #	HW SET #
SULLIVAN MIDDLE	S-29	32
SULLIVAN MIDDLE	S-30	69
SULLIVAN MIDDLE	S-31	32
SULLIVAN MIDDLE	S-32	32
SULLIVAN MIDDLE	S-33	69
SULLIVAN MIDDLE	S-36	69
SULLIVAN MIDDLE	S-37	69
SULLIVAN MIDDLE	S-38	69
SULLIVAN MIDDLE	S-39	69
SULLIVAN MIDDLE	S-40	69
SULLIVAN MIDDLE	S-41	32
SULLIVAN MIDDLE	S-42	69
SULLIVAN MIDDLE	S-43	32
SULLIVAN MIDDLE	S-44	32
SULLIVAN MIDDLE	S-45	32
SULLIVAN MIDDLE	S-46	32
SULLIVAN MIDDLE	S-47	33
SULLIVAN MIDDLE	S-49	34
SULLIVAN MIDDLE	S-50	33
SULLIVAN MIDDLE	S-51	34
SULLIVAN MIDDLE	S-53	32
SULLIVAN MIDDLE	S-54	69
SULLIVAN MIDDLE	S-56	32
SULLIVAN MIDDLE	S-57	69
SULLIVAN MIDDLE	S-58	32
SULLIVAN MIDDLE	S-58A	32
SULLIVAN MIDDLE	S-60	32

SCHOOL DESCRIPTION	DOOR #	HW SET #
SULLIVAN MIDDLE	S-61	69
SULLIVAN MIDDLE	S-63	32
SULLIVAN MIDDLE	S-63A	69
SULLIVAN MIDDLE	S-64	32
SULLIVAN MIDDLE	S-65	32
SULLIVAN MIDDLE	S-66	32
SULLIVAN MIDDLE	S-67	32
SULLIVAN MIDDLE	S-69	32
SULLIVAN MIDDLE	S-70	32
SULLIVAN MIDDLE	S-71	32
SULLIVAN MIDDLE	S-72	69
SULLIVAN MIDDLE	S-73	69
SULLIVAN MIDDLE	S-74	32
SULLIVAN MIDDLE	S-75	32
SULLIVAN MIDDLE	S-77	69
SULLIVAN MIDDLE	S-78	69
SULLIVAN MIDDLE	S-79	69
SULLIVAN MIDDLE	S-80	69
SULLIVAN MIDDLE	S-81	69
SULLIVAN MIDDLE	S-82	69
SULLIVAN MIDDLE	S-83	69
SULLIVAN MIDDLE	S-84	69
SULLIVAN MIDDLE	S-85	69
SULLIVAN MIDDLE	S-86	69
SULLIVAN MIDDLE	S-87	69
SULLIVAN MIDDLE	S-88	32
SULLIVAN MIDDLE	S-89	69
SCHOOL DESCRIPTION	DOOR #	HW SET #

SULLIVAN MIDDLE	S-90	69
SULLIVAN MIDDLE	S-91	32
SULLIVAN MIDDLE	S-92	32
SULLIVAN MIDDLE	S-93	32
SULLIVAN MIDDLE	S-94	32
SULLIVAN MIDDLE	S-95	69
SULLIVAN MIDDLE	S-96	69
SULLIVAN MIDDLE	S-98	69
SULLIVAN MIDDLE	S-99	32
SULLIVAN MIDDLE	S-100	32
SULLIVAN MIDDLE	S-101	32
SULLIVAN MIDDLE	S-102	03
SULLIVAN MIDDLE	S-103	10
SULLIVAN MIDDLE	S-104	32
SULLIVAN MIDDLE	S-105	32
SULLIVAN MIDDLE	S-106	35
SULLIVAN MIDDLE	S-107	35
SULLIVAN MIDDLE	S-108	32
SULLIVAN MIDDLE	S-109	32
SULLIVAN MIDDLE	S-110	43
SULLIVAN MIDDLE	S-111	43
SULLIVAN MIDDLE	S-112	43
SULLIVAN MIDDLE	S-113	69
SULLIVAN MIDDLE	S-114	32
SULLIVAN MIDDLE	S-115	32
SULLIVAN MIDDLE	S-116	32
SULLIVAN MIDDLE	S-117	32
SCHOOL DESCRIPTION	DOOR #	HW SET #
SULLIVAN MIDDLE	S-118	32

SULLIVAN MIDDLE	S-119	63
SULLIVAN MIDDLE	S-120	32
SULLIVAN MIDDLE	S-121	32
SULLIVAN MIDDLE	S-122	32
SULLIVAN MIDDLE	S-123	84
SULLIVAN MIDDLE	S-124	69
SULLIVAN MIDDLE	S-125	69
SULLIVAN MIDDLE	S-126	69
SULLIVAN MIDDLE	S-127	69
SULLIVAN MIDDLE	S-128	69
SULLIVAN MIDDLE	S-129	69
SULLIVAN MIDDLE	S-130	69
SULLIVAN MIDDLE	S-131	11
SULLIVAN MIDDLE	S-132	69
SULLIVAN MIDDLE	S-133	69
SULLIVAN MIDDLE	S-134	69
SULLIVAN MIDDLE	S-135	10
SULLIVAN MIDDLE	S-137	32
SULLIVAN MIDDLE	S-138	32
SULLIVAN MIDDLE	S-139	69
SULLIVAN MIDDLE	S-140	69
SULLIVAN MIDDLE	S-141	32
SULLIVAN MIDDLE	S-142	32
SULLIVAN MIDDLE	S-143	32
SULLIVAN MIDDLE	S-144	69
SULLIVAN MIDDLE	S-145	69
SCHOOL DESCRIPTION	DOOR #	HW SET #
SULLIVAN MIDDLE	S-146	69
SULLIVAN MIDDLE	S-147	69

SULLIVAN MIDDLE	S-148	69
SULLIVAN MIDDLE	S-149	69
SULLIVAN MIDDLE	S-150	69
SULLIVAN MIDDLE	S-151	69
SULLIVAN MIDDLE	S-152	32
SULLIVAN MIDDLE	S-153	69
SULLIVAN MIDDLE	S-154	69
SULLIVAN MIDDLE	S-155	32
SULLIVAN MIDDLE	S-156	69
SULLIVAN MIDDLE	S-157	69
SULLIVAN MIDDLE	S-159	32
SULLIVAN MIDDLE	S-160	32
SULLIVAN MIDDLE	S-161	32
SULLIVAN MIDDLE	S-162	32
SULLIVAN MIDDLE	S-163	69
SULLIVAN MIDDLE	S-164	69
SULLIVAN MIDDLE	S-165	69
SULLIVAN MIDDLE	S-166	69
SULLIVAN MIDDLE	S-167	69
SULLIVAN MIDDLE	S-168	69
SULLIVAN MIDDLE	S-169	69
SULLIVAN MIDDLE	S-170	69
SULLIVAN MIDDLE	S-171	69
SULLIVAN MIDDLE	S-172	69
SULLIVAN MIDDLE	S-173	69
SCHOOL DESCRIPTION	DOOR #	HW SET #
SULLIVAN MIDDLE	S-174	69
SULLIVAN MIDDLE	S-175	69
SULLIVAN MIDDLE	S-176	69

SULLIVAN MIDDLE	S-177	69
SULLIVAN MIDDLE	S-178	69
SULLIVAN MIDDLE	S-179	69
SULLIVAN MIDDLE	S-180	69
SULLIVAN MIDDLE	S-181	32
SULLIVAN MIDDLE	S-182	32
SULLIVAN MIDDLE	S-183	32
SULLIVAN MIDDLE	S-184	32
SULLIVAN MIDDLE	S-185	32
SULLIVAN MIDDLE	S-186	69
SULLIVAN MIDDLE	S-187	69
SULLIVAN MIDDLE	S-188	69
SULLIVAN MIDDLE	S-189	69
SULLIVAN MIDDLE	S-190	69
SULLIVAN MIDDLE	S-191	69
SULLIVAN MIDDLE	S-192	69
SULLIVAN MIDDLE	S-193	69
SULLIVAN MIDDLE	S-194	69
SULLIVAN MIDDLE	S-195	69
SULLIVAN MIDDLE	S-196	69
SULLIVAN MIDDLE	S-197	69
SULLIVAN MIDDLE	S-198	69
SULLIVAN MIDDLE	S-199	69
SULLIVAN MIDDLE	S-200	69
SCHOOL DESCRIPTION	DOOR #	HW SET #
SULLIVAN MIDDLE	S-201	69
SULLIVAN MIDDLE	S-202	69
SULLIVAN MIDDLE	S-204	69
SULLIVAN MIDDLE	S-206	69

SULLIVAN MIDDLE	S-207	69
SULLIVAN MIDDLE	S-208	69
SULLIVAN MIDDLE	S-209	69
SULLIVAN MIDDLE	S-210	69
SULLIVAN MIDDLE	S-211	69
SULLIVAN MIDDLE	S-212	69
SULLIVAN MIDDLE	S-213	32
SULLIVAN MIDDLE	S-214	69
SULLIVAN MIDDLE	S-215	69
SULLIVAN MIDDLE	S-216	69
SULLIVAN MIDDLE	S-217	69
SULLIVAN MIDDLE	S-218	69
SULLIVAN MIDDLE	S-219	69
SULLIVAN MIDDLE	S-220	69
SULLIVAN MIDDLE	S-221	69
SULLIVAN MIDDLE	S-222	69
SULLIVAN MIDDLE	S-223	69
SULLIVAN MIDDLE	S-224	69
SULLIVAN MIDDLE	S-225	69
SULLIVAN MIDDLE	S-227	55
SULLIVAN MIDDLE	S-229	55
SULLIVAN MIDDLE	S-230	32
SULLIVAN MIDDLE	S-231	69
SCHOOL DESCRIPTION	DOOR #	HW SET #
SULLIVAN MIDDLE	S-232	69
SULLIVAN MIDDLE	S-233	69
SULLIVAN MIDDLE	S-234	32
SULLIVAN MIDDLE	S-235	32
SULLIVAN MIDDLE	S-236	32

SULLIVAN MIDDLE	S-237	69
SULLIVAN MIDDLE	S-238	69
SULLIVAN MIDDLE	S-239	32
SULLIVAN MIDDLE	S-240	69
SULLIVAN MIDDLE	S-241	69
SULLIVAN MIDDLE	S-242	69
SULLIVAN MIDDLE	S-243	32
SULLIVAN MIDDLE	S-244	32
SULLIVAN MIDDLE	S-245	32
SULLIVAN MIDDLE	S-246	32
SULLIVAN MIDDLE	S-247	69
SULLIVAN MIDDLE	S-248	69
SULLIVAN MIDDLE	S-249	69
SULLIVAN MIDDLE	S-250	69
SULLIVAN MIDDLE	S-251	69
SULLIVAN MIDDLE	S-252	69
SULLIVAN MIDDLE	S-253	69
SULLIVAN MIDDLE	S-254	69

1.2.4 Keying Schedule:

Prepared by or under the supervision of Installer, detailing Owner's final keying instructions for locks. Include schematic keying diagrams and index each key set to unique door designations that are coordinated with the Contract Documents.

1.3 DCAMM CERTIFICATION

A copy of the contractor's DCAMM Certificate of Eligibility Forms Q7 and Update Form CQ3 must accompany this bid. Only contractors holding a Certificate of Eligibility from DCAMM in the category (ies) called for, and in a single project amount higher than the estimated project cost will be able to file a bid.

THE PROJECT CLASSIFICATION IS: DOORS & WINDOWS

1.4 INFORMATIONAL SUBMITTALS

Product Certificates: Certify that door hardware approved for use on types and sizes of labeled fire- rated doors complies with listed fire-rated door assemblies.

1.5 CLOSEOUT SUBMITTALS

Maintenance Data: Maintenance manuals for each type of door hardware shall be included in the final deliverables, along with the final hardware and keying schedule, Quick Key Index, and floor plan with key marks. All materials will be provided on a flash drive.

1.6 QUALITY ASSURANCE

Installer Qualifications: Supplier of products and an employer of workers trained and approved by product manufacturers.

Source Limitations: Obtain each type of door hardware within each category (Classroom Locksets w/ Indication, Office Locksets, Panic Hardware/Exits Devices, or interior solid wood doors) from a single manufacturer. For example, all Schlage ND Series locks or approved equal, across all buildings, shall be furnished by the same manufacturer. Because of the differing applications of each style lock/hardware category, different manufacturers will be expected and is allowable.

Keying Conference: Key conference to be scheduled to create and review key system. Deliver keys upon completion of the project.

1.7 DELIVERY, STORAGE AND HANDLING

Inventory door hardware on site and provided in a secured room allocated by the owner.

Tag each item or package with identification coordinated with door and hardware schedule and floor plan

1.8 COORDINATION

Installation Templates: Distribute 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 and existing requirements.

Electrical System Rough-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

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.

1.9 ENVIRONMENTAL CONDITIONS

WPS Environmental Health & Safety Department will be responsible for testing and remediation of an area that is impacted by this project.

1.10 WARRANTY

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.

Warranty Period:

Installation on Workmanship: One year from the date of Substantial Completion, unless otherwise indicated.

Exit Mechanical Devices: Five years from date of Substantial Completion.

Locksets: Seven years from date of Substantial Completion

1.11 MAINTENANCE & SERVICE

Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance

instructions for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 3 - EXECUTION

3.1 INSTALLATION

Examination: Examine doors and frames, before ordering and installation for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. A measurement of the individual locations in each building will provide the necessary information to develop the door, materials, and hardware schedule. The awarded vendor shall provide a door and hardware schedule to the owner for approval.

Field Verify all openings for existing conditions and provide all materials and workmanship to convert existing doors and hardware to hardware as indicated in the hardware schedule.

Contractor required to field measure all doors for hardware selection accuracy.

Kick off meeting required to discuss project specifics and schedule ahead of start of work. Product submittals shall be sent to the owner for approval prior to ordering.

All existing hardware to be removed and disposed of by the contractor.

All work at the schools must be conducted after school hours (second shift), from 3:00 pm to 10:00 pm, Monday through Friday, unless prior written approval is obtained from the owner. During school vacation weeks of February 16-19 or April 20-23, 2027 when classes are not in session, work may be completed between the hours of 7:00 am and 3:00 pm.

The contractor is to verify the completed operations of all hardware and doors with the owner present.

The contractor is required to clean up after themselves and remove their trash daily. The contractor is not to put any trash in Worcester Public Schools' dumpsters. All doors must be left secure at the conclusion of the workday, and under no circumstances shall WPS property be left unsecured. Work shall be planned to ensure minimal disruptions to the Owner and their occupants, to the extent possible.

WPS is providing a set of floor plans identifying doors to be addressed as [part of this bid invitation. These plans are diagrammatic, and it remains the contractor's responsibility to field verify all site locations ahead of any materials procurement. WPS Facilities Management shall approve all submittals and shop drawings and will answer contractor RFIs in a timely manner.

The project may commence upon contract execution and issuance of a notice to proceed by WPS.

*** All work under the scope of this contract shall be finished by **June 1, 2027*****