## PART 1 – GENERAL

* 1. RELATED DOCUMENTS
1. Drawings and general provisions of Contract, including General and Supplemental and Division 1 Specification sections, apply to the Work of this section.
	1. DESCRIPTION OF WORK
2. “Hardware” includes items known commercially as builder’s hardware which are required for swing, sliding and folding doors except special types of unique and non-matching hardware specified in the same section as the door and door frame.

2. All hardware furnished in connection with doors bearing Underwriters’ Labels or where necessary to meet building codes, federal guidelines for non-discrimination on the basis of disabilities (ADA), and special requirements will be in strict accordance with conditions established by the authority having jurisdiction and subject to approval of that authority.

3. Locking and latching devices on doors from classrooms and all other rooms accessible to students shall be of a type that will always allow free and unobstructed exit from that space by a familiar means such as a lever or exit device.

4. All building exits and any door which is a required means of egress from an area having an occupant load of 50 persons or more may be provided with a latch or lock device only if it is an approved exit device, U.L. labeled for “ACCIDENT HAZARD”

## 1.03 SCOPE OF WORK

1. The hardware supplier shall furnish and delivery to the project all items or architectural hardware hereinafter specified in the plans and specifications, or where necessary to assure the proper operation of all doors and wherever hardware is scheduled. Items not specifically mentioned but necessary to complete the work shall be furnished, matching in quality and finish the items described or specified. Supplier is responsible for proper coordination of all finish hardware with related sections to insure compatibility of products.

2. Items included in this section are as follows:

All Door Hardware

Thresholds

Weatherstripping

Key Cabinet

 3. Fire-Rated Assemblies inspection

1.04 RELATED WORK IN OTHER SECTIONS

1. The following items are specified in other Divisions of the Specifications:

Cabinet Hardware

Steel/Expansion Joint Covers/Sill Plates

Window Hardware

Toilet Partition Hardware

Identifying Devices

Marble Thresholds

1.05 QUALITY ASSURANCE

1. Obtain each kind of hardware (latch and locksets, hinges, etc.) from only one manufacturer, although several may be indicated as offering products complying with re­quirements.
2. Supplier: A recognized builders hardware supplier who has been furnishing hardware in the project vicinity for a period of not less than 2 years, and shall have in his employ or at his disposal a qualified Architectural Hardware Consultant certified by an independent organization such as the Door and Hardware Institute or the Society of Architec­tural Hardware Consultants. The hardware consultant shall be available to meet with the architect and/or General Contractor upon reasonable notice to: 1) review the hardware schedule submittal, 2) coordinate with other trades,
3. The contractor shall make final adjustments to closers and exit devices and assist electrician with final testing of electric locking devices.

4. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Meetings." The hardware manufacturers are to supply the pre-installation conference as well as a post-installation walk-thru. This is to insure proper installation and provide for any adjustments or replacements of hardware as required. Review methods and procedures related to electrified door hardware including, but not limited to, the following:

a. Inspect and discuss electrical roughing-in and other preparatory work performed by other trades.

b. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

c. Review required testing, inspecting, and certifying procedures.

d. Review sequence of operation or each type of electrified door hardware.

1.06 REGULATORY REQUIREMENTS

1. Comply with accessibility requirements, comply with Americans with Disabilities Act (ADA), “Accessibility Guidelines for Buildings and Facilities (ADAAG),” ANSI A117.1, FED-STD-795, “Uniform Federal Accessibility Standards.”

1. Fire Rated Openings: Provide hardware for fire rated openings in compliance with NFPA Standard No. 80 and local building code requirements. Provide only hardware which has been tested and listed by UL or an approved testing agency for types and sizes of doors required and complies with requirements of door and door frame labels.
2. Fire-Rated Assemblies Inspection: Upon completion of the installation, all fire door assemblies shall be tested to confirm proper operation of the closing device and that it meets all criteria of a fire door assembly as per NFPA 80 2007 Edition. At completion of the project, written record shall be furnished by the door hardware supplier and given to the owner to be made available to the Authority Having Jurisdiction, “AHJ”. The record shall show all fire rated openings, door number and location, along with hardware supplied and installed for the opening. The inspection of the fire doors that are swinging doors with builders hardware type to be performed by individuals with knowledge and understanding of the operating components of the type of door being subjected to testing as required by the AHJ.

1.07 SUBMITTALS

1. Submit manufacturers technical information for each item of hardware. Include whatever information may be necessary to show compliance with requirements, and include instructions for installation and for maintenance of operating parts and finish. Transmit copy of applicable data to Installer.

2. The hardware schedule shall consist of the actual product series numbers. Bidders are required to follow manufactur­er's catalog requirements for actual size of door closers, brackets and holders. All door sizes are to be noted on the hardware schedule and all hardware shall be in strict ac­cordance with height, width, and thickness requirements. Where closers or overhead door stops are scheduled, the hardware schedule shall indicate the degree of opening for each door affected.

3. The hardware supplier shall submit to the architect for approval the complete hardware schedule within fifteen (15) days after award of the contract. No hardware shall be delivered until the hardware schedule has been approved by the architect.

4. The schedule shall follow requirements of the specification and shall indicate type, manufacturer's name, catalog num­ber, location and finish of each item to be furnished, all in accordance with the Door & Hardware Institute "Architec­tural Hardware Scheduling Sequence and Format". "Vertical" scheduling format only. "Horizontal" schedules will be returned "Not Approved."

1.08 SUBSTITUTIONS AND SAMPLES

1. Preferred Products: Due to successful performance, durability and maintainability, the Plant Maintenance Department of the Rochester City School District stocks parts, is trained to repair, and uses the specified products listed as the basis of design in the Hardware Sets.

2. Equivalents: In regards to the “OR EQUAL CLAUSE” of the General Conditions of this contract, equivalents of equal or better quality may be made if approved by the District’s Design Group. If the Bidder intends to use an equivalent on this project, the equivalent must be submitted to the District’s Design Group for approval prior to the award of the Contract. Such request for equivalents by the Bidder shall be accompanied by physical samples of those items he proposes to substitute. Bidder shall include letter indicating which specific product feature(s) called for in the specification which the proposed substitution does not provide. Thereafter, if no requests for equivalents are presented prior to award of the Contract, the District must assume that the Bidder has intended in his bid to use these specified products.

3. Sample Request: Any request by the architect for samples shall be furnished by the hardware supplier no later than ten (10) days after said request is received.

## 1.09 MARKING, PACKING, DELIVERY AND STORAGE

1. All locks, exit devices, door closers, overhead door holders, hinges, kickplates, pulls and push plates, threshold and other similar items shall be individually packed in separate, suitable original containers as furnished by the hardware manufacturers. Each container shall be clearly marked with items numbers, article numbers and names, corresponding to that listed in the hardware schedule.

2. Small miscellaneous items, such as door stops, coat and hat hooks and door silencers that would not require specific location identifications, may be quantity packed if properly labeled with item numbers, etc.

3. The Contractor shall check the hardware upon delivery with the aid of a representative of the hardware supplier’s firm. The Contractor shall be responsible for the proper storage of all hardware until ready for application.

1.10 JOB CONDITIONS

1. Coordinate hardware with other work. Tag each item or package separately, with identification related to the final hardware schedule, and include basic installation instructions in the package. Furnish hardware items of proper design for use on doors and frames of the thicknesses, profile, swing, security and similar requirements indicated, as necessary for proper installation and function. Deliver individually packaged hardware items at the proper times to the proper locations (shop or project site) for installa­tion.

2. Furnish hardware templates to each fabricator of doors, frames and other work to be factory-prepared for the instal­lation of hardware. Check the shop drawings of such other work, to confirm that adequate provisions are made for the proper installation of hardware. All template information shall be in accordance with the DHI handbook, “Recommended Procedure for Processing Hardware Schedules and Templates”.

## PART 2 - PRODUCTS

## 2.01 MANUFACTURERS

1. Requirements for design, grade, function, finish, size and other distinctive qualities of each type of finish hardware are indicated in the Hardware Schedule at the end of this section. Products are identified by using hardware designation numbers of the following.

 2. Manufacturer's Product Designations:

 Butt Hinges: Ives

 Continuous Hinges: Ives

 Locksets: Schlage

 Exit Devices: Von Duprin

 Push Bars: Von Duprin

 Door Pulls: Von Duprin, Ives

 Closers: LCN

 Automatic Door Operators LCN

 Overhead Stop & Holders: Glynn-Johnson

 Kickplates: Ives

 Silencers: Ives

 Floor/Wall Stops: Ives

 Threshold, Seals & Weatherstrip National Guard Products

 Cast Aluminum Thresholds Wooster

2.02 MATERIALS AND FABRICATION

1. The drawings show the direction of slide, swing or hand of each door leaf. Furnish each item of hardware for proper installation and operation of the door movement as shown.

2. Produce hardware units of the basic metal and forming method indicated, using the manufacturer's standard metal alloy, composition, temper and hardness, but in no case of lesser (commercially recognized) quality than specified for the applicable hardware units by FS-H-l06, FS FF-G-lll, FS FF-H-ll6 and FS FF-H-l2l. Do not furnish "optional" materials or forming methods for those indicated, except as otherwise specified.

3. Manufacture hardware to conform to published templates, generally prepared for machine screw installation. Do not provide hardware which has been prepared for self-tapping sheet metal screws, except as specifically indicated.

4. Furnish screws for installation, with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match the hardware finish or, if exposed in sur­faces of other work, to match the finish of such other work as closely as possible, including "prepared for paint" in surfaces to receive painted finish.

1. Provide concealed fasteners for hardware units, which are exposed when the door is closed, except to the extent no standard units of the type specified are available with concealed fasteners.

1. All surface mounted hardware on wood doors shall be installed with thru bolts.

7. Furnish a complete set of specialized tools as needed for Owner's continued adjustment, maintenance, and removal and replacement of builder’s hardware.

8. The Contractor shall check the hardware upon delivery with the aid of a representative of the hardware supplier’s firm. The Contractor shall be responsible for the proper storage of all hardware until ready for application.

## 2.03 FINISH

1. Finish of hardware shall be:

.1 Hinges US\_\_\_\_ @ all interior wood doors, USP @ all interior hollow metal doors, \_\_\_\_\_\_\_\_ @ all exterior wood & hollow metal doors.

.2 Closers \_\_\_\_\_\_\_\_ powder coat, equal to LCN \_\_\_\_\_\_\_\_\_\_\_\_ finish.

.3 Trim (push, pull, kickplates) US\_\_\_\_\_\_\_

.4 Exit Devices

 US\_\_\_\_\_\_\_ lock and end stile cases

 US\_\_\_\_\_\_\_ trim

 Anodized finish on devices mounted on aluminum doors shall match door and frame finish.

.5 Weather and sound seals; Dark Bronze or clear anodized as noted.

.6 Thresholds; Abrasive cast, or mill finish Aluminum, as noted.

.7 Silencers; Grey

## 2.04 KEYING

1. Keys and Locking System

.1 All keys, cores and cylinders to be Everest 29 T family.

.2 All cylinders must be keyed to the great grand master system following the specific instructions of the school district or its appointed liaison.

.3 All codes must be generated at the lock manufacturer mastery department and copyrighted.

.4 All keying shall be done at the factory or by a qualified locksmith with factory bitting under the direction of a certified Architectural Hardware Consultant (AHC).

.5 All locks and lock cylinders must accept large format interchangeable core as well as standard core cylinders where applicable.

.6 Provide interchangeable core cylinders at all exterior doors, and interior doors with exit devices, standard core cylinders on all other interior doors.

.7 Provide 3 change keys per lock, 5 master keys for each master system and 5 grandmasters for each grandmaster system. Furnish one extra key blank per lock.

1. Keying Schematic and Layout

.1 Lock manufacturer shall successfully conduct keying meetings to ensure proper keying of all locks and cylinders.

.2 The keying schematic shall conform to district keying system requirements in regard to proper lock manufacturer, keyway, code generation and master key order placement.

.3 Hardware supplier shall submit keying schedule for approval prior to placing an order for the locks. Furnish a bitting list to the school district before installation of permanent cylinders.

3. Locks and Cylinders

.1 Any lock manufacturer used must make housings for standard core cylinders as well as large format cores.

.2 Lock manufacturer’s representative must assist in keying locks and code generation in such a way that it will conform to all above specifications.

.3 Lock manufacturer’s housing must be able to accept Schlage Everest UL437 listed cylinder.

.4 Mortise locksets shall be used on all new doors and for retrofit of existing doors with old mortise lock cutouts.

.5 Mortise locksets shall be L9000 series as manufactured by Schlage Lock Co. Trim design shall be 17 lever with L style escutcheon unless specified otherwise. Trim design to be verified on a per job basis

.6 ND series cylindrical locksets as manufactured by Schlage Lock Co. shall be used when retrofitting existing doors with cylindrical lock cutouts.

.7 Furnish a key cabinet system where projects have fifty new doors or involve rekeying the entire building, Telkee or equal.

8. Furnish temporary cylinders, or keying for the construction period. Coordinate all permanent cylinder, keys and keying requirements with Roddy Johnson, Locksmith / Plant Maintenance Division (585)-336-4126.

## 2.05 MATERIALS As listed below, unless indicated otherwise in Hardware Sets

## 1. Hinges – Ives, (Stanley, McKinney, Hager)

.1 All 3CB (EXCEPT as noted)

.2 (3) hinges up to and including 90” door height

.3 (4) hinges for doors over 90”

.4 Width of hinge = 4½” except as noted, furnish wide throw hinges where trim conditions require.

.5 Height of hinge = 4½”up to 38” door width - 5” on doors over 38”

.6 ALL hinges on corridor doors shall be NRP (non-removable pin)

## 2. Continuous Hinges – Ives, (Select Products, Roton)

.1 Hinge shall be a pinless assembly of three interlocking extrusions applied to the full height of the door and frame without mortising. The door leaf and jamb leaf shall be geared together for the entire length of the hinge and joined by a channel. Hinge knuckle shall be monolithic in appearance. Continuous hinges with visible knuckle separations are not acceptable. Vertical door loads shall be carried on minimum 3/4" acetyl bearings through a full 180 degrees. All (HD) heavy-duty hinges shall have a minimum of (32) acetyl bearings supplied on a (84”) tall continuous hinge.

2. Screw hole locations on door leaf and jamb leaf to be templated.

### 3. Locksets- Schlage, (Corbin Russwin ML2000VR Series, Best 45H)

### .1 Locksets shall be Schlage L9000 series mortise type and must have the following features:

.2 Hand of lock can be changed without disassembly of lock case.

.3 Lever support springs are replaceable without disassembly of lock case.

.4 Outside spindles on locking functions on sets with lever handle trim shall be of a type which is separate from the inside spindle. Threaded swivel connection between outside and inside lever trim is unacceptable.

.5 Trim to be applied by threaded bushing. Exposed fasteners shall not be acceptable.

.6 Manufacturer shall provide universal lock chassis, one lock case for knobs or levers.

4. Lock Trim

.1 Locksets shall be furnished with lever handle trim (Trim design to be determined on a per job basis). Levers shall be solid in construction, 4-¾” minimum length. Escutcheons shall be cold forged. Roses shall be heavy wrought, 2-1/8” maximum diameter.

.2 All locks to be furnished with (6) pin cylinders as specified above. Cylinder cams shall match the lock manufacturer’s template.

5. Deadlocks – Yale 300 Series – (Accurate, Corbin/Russwin, Sargent)

6. Exit Devices – Von Duprin, (Stanley/Precision 2000 Apex, Sargent 80 Series)

.1 99 Series except as noted

.2 Keyed removable mullions on pairs of doors. Surface vertical rods (less bottom rod) at cross corridor doors.

.3 Furnish glass bead kits at fire doors wherever the glass area falls below 42” above finish floor.

.4 All devices shall incorporate fluid damper or similar device, which will slow down the touchbar return, thereby eliminating the noise commonly, associated with panic bars.

.5 Strikes at pullman type latches shall be roller type.

.6 The latchbolt shall be molly coated, a self-lubricating coating, which reduces friction and wear. Latchbolt shall have a deadlocking feature.

.7 Center Case: Shall be interchangeable with all functions.

.8 All internal parts shall be zinc dichromate coated.

.9 Strikes: Shall be roller type and come complete with a locking plate to prevent movement.

.10 Trim: Shall be heavy-duty type and fastened by means of concealed welded lugs and thru bolts from the inside. Lever trim shall be cast, or forged brass with a minimum average thickness on the escutcheon of (.130). Plate on pull trim shall be minimum average thickness (.090) and have forged pulls.

.11 Lever trim shall incorporate two heavy duty compression springs and have breakaway feature.

7. Closers – LCN 4000 Series, (Sargent 281 Series less PRV)

.1 Furnish LCN with standard metal cover, EXCEPT as noted.

.2 Indicate degree of opening for mounting closer for each door on hardware schedule.

.3 Furnish with each closer a full size screw location template for correct type of mounting and degree of opening.

.4 Furnish thru-bolts and ceal nuts (NOT GROMMETS) at all wood fire doors and as may be required by carpenter for correct fastening.

.5 Metal cover shall be fastened to closer body with tamper resistant screws, installed through holes in cover. Slotted covers are not acceptable. Closer arm shall be fastened to frame with tamper resistant screws.

.6 All closers shall meet or exceed the ANSI 117 standards.

.7 Furnish all adapter plates, brackets, and related closer accessories required by manufacturer for mounting closers on the doors and frames as detailed.

.8 All manual door closers shall be certified to exceed ten million (10,000,000) full load operating cycles by a recognized independent testing laboratory.

.9 All manual closers shall carry a manufacturers ten (10) year warranty.

.10 All closer with electrical or pneumatic components shall carry a manufacturers two (2) year warranty.

.11 Fully hydraulic, rack and pinion action with high strength cast iron cylinders and one piece forged steel pistons.

.12 Hydraulic fluid of a type requiring no seasonal adjustments for temperatures from 120º F (49º C) to ‑30º F (‑35º C).

.13 Pinion shaft minimum diameter of 11/16".

.14 Hydraulic regulation controlled by tamper‑proof, non‑critical screw valves, adjustable with a hex wrench. Separate adjustments for backcheck, general speed, and latch speed. Backcheck shall be properly located for protection of the door, frame, and applied hardware.

.15 Forged steel main arms. Forged steel main and forearms at PA application. Arms at PA location shall be vandal proof design. Any PA arm that can be taken apart in the field shall not be acceptable.

8. Push/Pull Plates – Ives (Rockwood Mfg., Baldwin) Except As Indicated In Hardware Types Furnish:

.1 Push Plate #8200 3-½” x 15”

.2 Pull Plate #8305-8 3-1/2” x 15”

9. Kickplates – Ives 8400 Series (Rockwood Mfg., Baldwin)

.1 (.051”) thick.

.2 8” high except as noted.

.3 Width of door less 2” on push side.

.4 Width of door less ½” on pull side.

.5 Width of door less 6” on doors with surface vertical rods.

10. Stops – Ives, (Rockwood Mfg.)

.1 FS436 floor stops at all doors EXCEPT: WS407CVX where knob contacts wall or Glynn-Johnson (Rixson) 90/450 series OH Stop where floor and wall stops are impractical.

11. Overhead Door Holders – Glynn Johnson 90/450 Series (Rixson)

12. Thresholds – Wooster, National Guard (Pemko, Zero, Reese)

.1 Furnish #115-4” Alumogrit - notched for stops except as noted or detailed otherwise.

.2 Furnish stainless steel screws and lead anchors for fastening.

13. Sweepstrips – National Guard (Reese 964, Seal-Eze)

.1 Nylon Brush type #C607 x width of door

.2 Polypropylene UNACCEPTABLE

14. Weatherstripping – National Guard, (Reese 961, Seal-Eze)

.1 Nylon brush type A625 – head & jamb, except as noted

.2 Polypropylene UNACCEPTABLE

15. Soundproof Gasketing – National Guard (Reese)

.1 Wherever soundproofing is shown or listed in the specifications or drawings, furnish:

.1 103N adjustable gasketing – mitered at head and jambs

.2 420N automatic door bottom

16. Manual Flush Bolts – Ives (Door Controls, Rockwood Mfg.) FB458

17. Automatic Flush Bolts – Ives (Door Controls, Rockwood Mfg.)

.1 FB30 (metal doors) FB40 (wood doors)

.2 Furnish DP2 dustproof strike at bottom bolt

18. Self-Latching Bolts - Ives (Door Controls, Rockwood Mfg.)

FB50 (metal doors), FB60 (wood doors)

.1 Furnish DP2 dustproof strike at bottom bolt

19. Coordinators - Ives (Door Controls, Rockwood Mfg.)

.1 Furnish C O R Series with required brackets and CB-1 carry bar.

20. Electromagnetic Stops & Holder – LCN SEM Series, (Rixson, Dorma)

21. Astragals – National Guard (Reese)

 .1 115N at meeting stiles – at fire rated wood doors

22. Smoke Gasketing – National Guard (Reese)

 .1 2525 stick on silicone – head & Jamb

Interior Non-Locking – Not Rated Single Doors

1 Set Hinges 3CB1 4.5”

1 Set Passage set L9010

1 Only Stop WS407/FS436

3 Only Silencers SR64

Single Toilet - Not Rated

1 Set Hinges 3CB1 4.5”

1 Set Privacy Set L9040

1 Only Stop WS407/FS436

Private Office – Not rated

1 Set Hinges 3CB1 4.5”

1 Set Lockset L9050

1 Only Stop WS407/FS436

3 Only Silencers SR64

Store Rooms & (Within) Classrooms – Not Rated

1 Set Hinges 3CB1 4.5”

1 Set Lockset L9070

1 Only Stop WS407/FS436

3 Only Silencers SR64

Store Rooms & Janitors Closets - Not Rated

1 Set Hinges 3CB1 4.5”

1 Set Lockset L9080

1 Only Stop WS407/FS436

3 Only Silencers SR64

Closets – Not Lockable – Not Rated

1 Set Hinges 3CB1 4.5” X 4”

1 Only Pull 8102-8

1 Only O.H. Stop & Holder, Friction Type 450F

3 Only Silencers SR64

Closet – Lockable – Not Rated

1 Set Hinges 3CB1 4.5” X 4”

1 Only Deadlock L463 X L583-363

1 Only Pull 8102-8

1 Only O.H. Stop & Holder, Friction Type 450F

3 Only Silencers SR64

Interior – Not Lockable – Rated

1 Set Hinges 3CB1 4.5”

1 Set Passage Set L9010

1 Set Closer 4111 METAL

1 Only Stop WS407/FS436

3 Only Silencers SR64

Faculty Toilet (Single) - Rated

1 Set Hinges 3CB1 4.5”

1 Set Faculty Restroom Lockset L9486 X L583-375

1 Only Closer 4111 METAL

1 Only Kickplate 8400 8”

1 Only Stop WS407/FS436

1 Set Smoke Gasket 2525B

Classroom, Inswing - Rated

1 Set Hinges 3CB1 4.5”

1 Set Lockset L9071

1 Only Closer 4011T METAL

1 Only Kickplate 8400 8”

1 Only Stop WS407/FS436

3 Set Smoke Gasket 2525B

Store Rooms, Janitor Closets On Corridor – Rated

1 Set Hinges 3CB1 4.5”

1 Set Lockset L9080

1 Only Closer 4111 METAL

1 Only Kickplate 8400 8”

1 Only Stop WS407/FS436

1 Set Smoke Gasket 2525B

Executive Office w/Privacy Door Release – Not Rated

1 Set Hinges 3CB1 4.5”

1 Set Lockset L9050

1 Only Closer/Elec. Release H.O. 4040SE (PULL SIDE) X

 TRANSFORMER 110/24

1 Only Push Button Release (@ Desk) PB720

1 Only Stop WS407/FS436

3 Only Silencers SR64

NOTE: WIRING BY ELEC. CONTRACTOR

Classroom – Outswing – Rated

1 Set Hinges 3CB1 4.5” NRP

1 Set Lockset L9071

1 Only Closer 4111 METAL

1 Only Kickplate 8400 8”

1 Only Stop WS407/FS436

1 Set Smoke Gasket 2525B

Storage, Janitor Closet, Utility – Rated – Outswing To Corridor

1 Set Hinges 3CB1 4.5” X 4” NRP

1 Set Lockset L9080

1 Only Kickplate 8400 8”

1 Only Closer 4111 METAL

1 Only Stop WS407/FS436

1 Set Smoke Gasket 2525B

Storage, Janitor Closet, Utility – Not Rated – Inswing – w/ Closer

1 Set Hinges 3CB1 4.5”

1 Set Lockset L9080

1 Only Closer 4011 METAL X H.O.

1 Only Kickplate .050 X 8”

1 Only Stop WS407/FS436

3 Only Silencers SR64

Public Toilet - Multi-Stall – (Inswing) Rated

1 Set Hinges 3CB1HW 4.5”

1 Set Lockset L9070

1 Only Closer 4011T METAL

1 Only Kickplate 8400 X 8”

1 Only Stop WS407/FS436

1 Set Smoke Gasket 2525B

Public Toilet – Multi Stall – (Inswing) - Not Rated

1 Set Hinges 3CB1HW 4.5”

1 Only Push Plate 70 – 3.5” X 15”

1 Only Pull Plate 8305-8 3.5” X 15”

1 Only Lockset H7804 X 7800

 (ACCURATE)

1 Only Closer 4011T METAL

1 Only Kickplate 8400 X 8”

1 Only Stop WS407/FS436

3 Only Silencers SR64

Rooms w/ Occupancy > 50 Persons - Rated

1 Set Hinges 3CB1 4.5”

1 Only Exit Device 99L(-F)

1 Only Rim Cylinder 20-022

1 Only Closer 4111 METAL

1 Only Kickplate 8400 X 8”

1 Only Stop WS407/FS436

1 Set Smoke Gasket 2525B

Service Entrance -FRP

1 Only Continuous Hinges 224HD

1 Set Lockset L9080

1 Only Closer 4111 CUSH METAL

1 Only Threshold 115 – 4” ALUMOGRIT

1 Set Weatherstrip BY DOOR/FRAME MFG

1 Set Sweepstrip BY DOOR/FRAME MFG

Storage From Exterior -FRP

1 Only Continuous Hinges 224HD

1 Only Lockset L9080

1 Only Closer 4111 METAL

1 Only Threshold 115 – 4” ALUMOGRIT

1 Set Weatherstrip BY DOOR/FRAME MFG

1 Set Sweepstrip BY DOOR/FRAME MFG

Exit Only – Exterior - FRP

1 Only Continuous Hinges 224HD

1 Only Exit Device 99E0

1 Only Closer 4111 METAL

1 Only O.H. Stop/Holder 100H

1 Only Threshold 115 – 4” ALUMOGRIT

1 Set Weatherstrip BY DOOR/FRAME MFG

1 Set Sweepstrip BY DOOR/FRAME MFG

Exit / Entry – Exterior - FRP

1 Only Continuous Hinges 224HD

1 Only Exit Device 99NL

1 Only Rim Cylinder 20-757

1 Only Closer 4111 METAL

1 Only O.H. Stop/Holder 100H

1 Only Threshold 115 – 4” ALUMOGRIT

1 Set Weatherstrip BY DOOR/FRAME MFG

1 Set Sweepstrip BY DOOR/FRAME MFG

Interior - Lockable – Rated (Pr.)

2 Set Hinges 3CB1 4.5”

1 Set Self Latching Flush Bolts FB60/FB50 x DP2

1 Set Lockset L9070

2 Only Stop WS407/FS436

1 Set Smoke Gasket 2525B

Closet – Not Lockable Non-Rated (Pr.)

2 Set Hinges 3CB1 4.5” X 4”

2 Only Pull 8102-8

2 Only O.H. Stop/Holder 450F

2 Only Friction Catch CL21

2 Only Silencers SR64

Closet – Lockable – Not Rated (Pr.)

2 Set Hinges 3CB1 4.5” X 4”

2 Only Pull 8102-8

2 Only Manual Flush Bolts FB458

2 Only O.H. Stop/Holder 450F

2 Only Friction Catch 21

1 Only Classroom Deadlock L463 X L583-363

2 Only Silencers SR64

Gym Storage – Not Rated (Pr.)

2 Set Hinges 3CB1 4.5” X 4”

2 Only Flush Pulls 95C

2 Only O.H. Stop/Holder 450F

2 Only Friction Catch CL21

1 Only Classroom Deadlock L463 X L583-363

2 Only Silencers SR64

Gym Storage (Lockable) – Not Rated (Pr.)

2 Set Hinges 3CB1HW

1 Pair Flush Bolts FB458

1 Only Deadlock L463 X L583-363

1. Only Push Plates 8200 – 3.5” X 15”

2 Only Pulls TO BE SELECTED

2 Only Closers 4111/4011 METAL

2 Only Kickplates 8400 X 8”

2 Only Stops WS407/FS436

2 Only Silencers SR64

Storage Off Corridor – Rated (Pr.)

2 Set Hinges 3CB1 4.5” NRP

1 Set Lockset L9080

1 Set Self Latching Flush Bolts FB50/FB60 X DP2

1 Pair Astragals 115N

1 Only Coordinator COR X MB

2 Only Closer 4110/4011 METAL

2 Only Stop WS407/FS436

1 Set Smoke Seals 2525B

Storage On Corridor – Rated (Pr.)

2 Set Hinges 3CB1 4.5” X 4” NRP

1 Set Self Latching Flush Bolts FB50/FB60 X DP2

1 Set Lockset L9080

1 Pair Astragals 115N

1 Only Coordinator COR X MB

2 Only Closer 4111/4011 METAL

2 Only Stops WS407/FS436

1 Set Smoke Seals 2525B

Classroom – Rated (Pr.)

2 Set Hinges 3CB1 4.5”

1 Set Automatic Flush Bolts FB30/FB40 X DP2

1 Set Classroom Security Lockset L9071

1 Pair Astragals 115N

2 Only Closers 4111 METAL

1 Only Coordinator COR X MB

2 Only Kickplates 8400 X 8”

2 Only Stops WS407/FS436

1 Only Smoke Seals 2525B

Meeting Rooms, Classrooms - Occupancy >50 Persons – Rated Doors (Pr.)

2 Set Hinges 3CB1 4.5” NRP

1 Only Keyed Removable Mullion KR9954

2 Only Exit devices 99L-F X 499F

2 Only Cylinders 20-057

1 Only Mortise Cylinder 20-001

2 Only Kickplates 8400 X8”

2 Only Smoke Astragals 115N

2 Only Kickplates 8400 8”

2 Only Electromagnetic Holders SEM7830

Stair, Corridor Exits – Rated (Pr.)

2 Set Hinges 3CB1HW 4.5”

2 Only Exit Devices 99L(-F)

2 Only Cylinders 20-057

1 Only Mortise Cylinder 20-001

2 Only Closers 4111 METAL

2 Only Kickplates 8400 X 8”

2 Only Electromagnetic Holders SEM7830

1 Only Removable Mullion (KR)9954 X 154

(Omit Removable Mullion Where Fixed H.M. Mullion Is To Be Furnished By Others)

Storeroom – Exterior (Pr.) FRP

2 Only Continuous Hinges 224HD

2 Only Surface Bolts 1712B/1712T

1 Only Lockset L9080 LESS OUTSIDE PULL

1 Only Closer (Active) 4111 METAL

1 Only O.H. Stop/Holder (Inactive) 80H

1 Only Threshold 115-4” ALUMOGRIT

1 Set Weatherstrip BY DOOR/FRAME MFG

2 Only Sweepstrips BY DOOR/FRAME MFG

Vestibule – Non Locking – Aluminum Doors (Pr.)

2 Only Continuous Hinges 224HD

2 Only Push Bars 330

2 Only Pulls 8190-0

2 Only Closers 4111 S CUSH METAL

1. Only Threshold 425BR

Exits Lockable – Aluminum Doors (Pr.)

2 Only Continuous Hinges 224HD

2 Only Exit devices CD9927NL X CD9927DT

2 Only Mortise Cylinder 20-001

2 Only Rim Cylinder 20-757

2 Only Closers 4111 METAL

2 Only O.H. Stop/Holder 100H

1 Only Threshold 425BR

2 Only Astragals A605

1 Set Weatherstrip A625

2 Only Sweepstrips C607

Exit / Entry From Exterior w/ Mullion (Pr.)

2 Only Continuous Hinges 224HD

1 Only Exit Device (Active) CD99NL

1 Only Exit Device (Inactive) CD99DT

2 Only Mortise Cylinder s 20-001

1 Only Rim Cylinder 20-757

1 Only Removable Mullion w/ Stabilizers (KR)4954 X 154

2 Only Closers 4111 CUSH METAL

1 Only Threshold 425BR

1 Only Mullion Seal 5100N

1 Set Weatherstrip A625

2 Only Sweepstrips C607

Wardrobe Doors

1 Only Continuous Hinge 780-155HD

1 Only Overhead Stop – Friction Type 450F

1 Only Rod Pull 8102-8

1 Only Friction Catch CL21

END OF SECTION