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September 18, 2025

Addendum No. 02

File Reference Number: RFP 2025 067

Title: RRC Whitson Office Renovation

RE: Clarifications/Questions

QUESTIONS/CLARIFICATIONS:

Item 1: Please see Addendum No. 1 from Bertrand Wheeler dated September 8, 2025, which includes additional Specifications 00900 as well as a Door and Frame Schedule, attached at Appendix "A" to this Addendum.

Item 2: Please see Door Hardware Specifications - Section 08 71 00, attached at Appendix "B" to this Addendum.

Item 3: Please see Addendum No. 3 from Bertrand Wheeler dated September 18, 2025, which includes additional Specifications 00900 for Drawings 1/M104 and 1/E101, attached at Appendix "C" to this Addendum.

This Addendum hereby forms part of the RFP.

Regards,

Nicole Laplante
Procurement Contracts Specialist
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Appendix “A”

01 General

The following amendments are hereby made an integral part of the Contract Documents for the above project, including all applicable sub-contractors affected.

1.1 NOTES

- .1 Indicate the receipt of this Addendum on the specified Tender Form as required.
- .2 Included attachments are as follows:
 - .1 Door and Frame Schedule (2 pages, letter size).

1.2 GENERAL CLARIFICATIONS

- .1 Refer to attached Door and Frame Schedule.

2 Amendments

- 2.1** None.

End of Addendum

PROJECT: ONTC Office Conversion, 435 Whitson

PROJECT NO.: 2508

DATE: September 8, 2025

| REFERENCE NO. | | DOOR | | | | | FRAME/SCREEN | | | | | ULC LABEL | HDWE | REMARKS |
|--------------------|----------------------|------|-------|-----|---------|-----|--------------|-----|-----|-------|-----|-----------|------------------------|---|
| NO. | ROOM | TYPE | MAT | FIN | WIDTH | HT | TYPE | MAT | FIN | WIDTH | HT | | | |
| APARTMENT A | | | | | | | | | | | | | | |
| D101A | MAIN ENTRY | A | AL/TG | PT | 36" | 84" | 2 | AL | PT | 62" | 86" | -- | LOCKSET WITH LEVER | BRONZE ANODIZED ALUMINUM, CLOSURE, PDO, TEMPERED GLASS -DOUBLE GLAZED, SEALED |
| D101B | CLOSET | C | WD | PT | 2 x 30" | 84" | 1 | HM | PT | 64" | 86" | -- | CLOSET HANDLES | |
| D101C | ENTRY HALLWAY | B | HM/TG | PT | 36" | 84" | 2 | HM | PT | 54" | 86" | 45 MIN | LOCKSET WITH LEVER | CLOSURE, PDO, TEMPERED GLASS - SEALED |
| D102A | HALL | B | HM | PT | 36" | 84" | 1 | HM | PT | 40" | 86" | -- | LOCKSET WITH LEVER | CLOSURE |
| D102B | ENTRY HALLWAY | B | HM | PT | 36" | 84" | 1 | HM | PT | 40" | 86" | 45 MIN | LOCKSET WITH LEVER | CLOSURE |
| D103A | MEETING ROOM | B | HM | PT | 36" | 84" | 1 | HM | PT | 40" | 86" | 45 MIN | LOCKSET WITH LEVER | CLOSURE |
| D103B | MEETING ROOM | B | HM | PT | 32" | 84" | 1 | HM | PT | 36" | 86" | -- | LOCKSET WITH LEVER | |
| D107 | ELECTRICAL ROOM | B | HM | PT | 32" | 84" | 1 | HM | PT | 36" | 86" | 45 MIN | LOCKSET WITH LEVER | |
| D108 | OFFICE C | B | HM | PT | 36" | 84" | 1 | HM | PT | 40" | 86" | -- | LOCKSET WITH LEVER | |
| D109 | OFFICE D | B | HM | PT | 36" | 84" | 1 | HM | PT | 40" | 86" | -- | LOCKSET WITH LEVER | |
| D112 | BF WASHROOM | B | HM | PT | 36" | 84" | 1 | HM | PT | 40" | 86" | -- | LOCKSET WITH LEVER | DOOR TO HAVE A 7/8" UNDERCUT, PDO |
| D113 | COFFEE STATION | C | HM | PT | 20" | 84" | 1 | HM | PT | 24" | 86" | -- | CLOSET HANDLES | BI-FOLD CLOSET DOORS |
| D114 | WASHROOM | B | HM | PT | 32" | 84" | 1 | HM | PT | 36" | 86" | -- | LOCKSET WITH LEVER | DOOR TO HAVE A 7/8" UNDERCUT. |
| | | | | | | | | | | | | | | |
| D201 | STAIRWAY | A | HM/TG | PT | 32" | 84" | 1 | HM | PT | 36" | 86" | 45 MIN | PASSAGE SET WITH LEVER | TOP GLAZING ONLY. NO BOTTOM GLAZING IN DOOR |
| D202 | COFFEE/ MEETING ROOM | B | HM | PT | 32" | 84" | 1 | HM | PT | 36" | 86" | -- | LOCKSET WITH LEVER | |
| D207 | WASHROOM | B | HM | PT | 32" | 84" | 1 | HM | PT | 36" | 86" | -- | PRIVACY SET WITH LEVER | DOOR TO HAVE A 7/8" UNDERCUT. |
| D208 | WASHROOM | B | HM | PT | 32" | 84" | 1 | HM | PT | 36" | 86" | -- | PRIVACY SET WITH LEVER | DOOR TO HAVE A 7/8" UNDERCUT. |
| D210 | OFFICE | B | HM | PT | 32" | 84" | 1 | HM | PT | 36" | 86" | -- | LOCKSET WITH LEVER | |
| D211 | OFFICE | B | HM | PT | 32" | 84" | 1 | HM | PT | 36" | 86" | -- | LOCKSET WITH LEVER | |
| D212 | OFFICE | B | HM | PT | 32" | 84" | 1 | HM | PT | 36" | 86" | -- | LOCKSET WITH LEVER | |

PROJECT: ONTC Office Conversion, 435 Whitson
PROJECT NO.: 2508
DATE: September 8, 2025

| REFERENCE NO. | | DOOR | | | | | FRAME/SCREEN | | | | | ULC LABEL | HDWE | REMARKS |
|---------------|------|------|-----|-----|-------|----|--------------|-----|-----|-------|----|-----------|------|---------|
| NO. | ROOM | TYPE | MAT | FIN | WIDTH | HT | TYPE | MAT | FIN | WIDTH | HT | | | |
| | | | | | | | | | | | | | | |

| ABBREVIATIONS | | | | | | | |
|---------------|---------------------------|-----|------------------------|----|-------------------------|-----|---|
| AL | ALUMINUM | HM | HOLLOW METAL | WD | WOOD | CL | CLOSER |
| TBAL | THERMALLY BROKEN ALUMINUM | HMI | HOLLOW METAL INSULATED | EX | EXISTING | ES | ELECTRONIC SECURE ACCESS (KEY FOB OR SIMILAR) |
| CA | CLEAR ANODIZED | PT | PAINT | ST | STAINLESS STEEL | PDO | POWER DOOR OPERATOR |
| BA | BRONZE ANODIZED | GWG | GEORGIAN WIRE GLASS | TG | TEMPERED GLASS - SEALED | TBD | TO BE DETERMINED (ON SITE) |

Appendix “B”

PART 1 – GENERAL

1.01 SUMMARY

A. Section includes hardware for doors specified in “Hardware Sets”.

B. Related Divisions:

1. Division 03 Concrete
2. Division 06 Rough & Finish Carpentry
3. Division 07 Joint Sealants
4. Division 08 Openings
5. Division 09 Finishes
6. Division 10 Specialties
7. Division 13 Special Construction
8. Division 26 Electrical
9. Division 27 Communications
10. Division 28 Electronic Safety and Security

1.02 REFERENCES

A. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA):

1. ANSI/BHMA A156.1 Butts & Hinges (2016)
2. ANSI/BHMA A156.2 Bored & Preassembled Locks & Latches (2017)
3. ANSI/BHMA A156.4 Door Controls – Closers (2019)
4. ANSI/BHMA A156.5 Cylinders and Input Devices for Locks (2020)
5. ANSI/BHMA A156.7 Template Hinge Dimensions (2016)
6. ANSI/BHMA A156.8 Door Controls – Overhead Stops and Holders (2015)
7. ANSI/BHMA A156.13 Mortise Locks & Latches (2017)
8. ANSI/BHMA A156.14 Sliding & Folding Door Hardware (2019)
9. ANSI/BHMA A156.16 Auxiliary Hardware (2018)
10. ANSI/BHMA A156.18 Materials & Finishes (2020)
11. ANSI/BHMA A156.19 Power Assist & Low Energy Power Operated Doors (2019)
12. ANSI/BHMA A156.21 Thresholds (2019)
13. ANSI/BHMA A156.22 Door Gasketing Systems (2017)
14. ANSI/BHMA A156.26 Continuous Hinges (2017)
15. ANSI/BHMA A156.28 Keying Systems (2018)
16. ANSI/BHMA A156.31 Electric Strikes (2019)
17. ANSI/BHMA A156.35 Power Supplies for Electronic Access Control (2020)
18. ANSI/BHMA A156.38 Low-Energy Power Operated Sliding and Folding Doors (2019)

B. International Code Council/American National Standards Institute (ICC/ANSI)/ADA:

1. ICC/ANSI A117.1 Standards for Accessible and Usable Buildings and Facilities.

C. Door and Hardware Institute (DHI):

1. DHI Publication – Abbreviations and Symbols (2019).
2. DHI Publication – Installation Guide for Doors and Hardware (2020).
3. DHI Publication – Sequence and Format of Hardware Schedule (2019).

D. National Fire Protection Agency (NFPA):

1. NFPA 70 National Electrical Code.
2. NFPA 80 Standard for Fire Doors and Other Opening Protectives.
3. NFPA 105 Standard for the Installation of Smoke Door Assemblies.

1.03 SUBMITTALS

- A. Submit in accordance with Conditions of the Contract and Division 01 Administrative Requirements and Submittal Procedures Section.
- B. Shop Drawings:
 - 1. Schedule hardware in vertical format using the DHI publication Sequence and Formatting for the Hardware Schedule.
 - 2. Include abbreviations and symbols page to include manufacturers' abbreviations, finish code descriptions, and fastener abbreviations including descriptions according to the DHI publication Abbreviations and Symbols.
 - 3. Detail headings referencing the Architect's heading, opening number, locations, fire rating, handing, degree of opening, and description of the opening elements. Include Voltage, amperage, and operational descriptions for openings that have electrified hardware.
 - 4. Coordinate final door hardware schedule with doors, frames, and related work listing proper sizing of hardware, addressing door thickness, handing, function, mounting accessories, and finish of hardware.
 - 5. List related door devices specified in other Sections for each opening.
 - 6. Architectural Hardware Consultant (AHC), as certified by DHI, who will affix seal attesting to completeness and correctness, including the review of the hardware schedule prior to submittal.
- C. Product Data:
 - 1. Furnish manufacturers' catalog sheets on design, grade, and function of items listed in hardware schedule. Submit only relevant information and circle or highlight the technical information including: model numbers, sizing information, voltage and amperage requirements, options and accessories required, means of fastening, listings of fire-rated applications, and finishes.
- E. Templates:
 - 1. Within fourteen days of receiving approved door hardware submittals submit complete list of templates for each hardware item to the opening manufacturers and the installers. Include detailed lists of the hardware location requirements for mortised and surface applied hardware.
- F. Wiring Diagrams: Detail a title block for each drawing that includes the project name, project address, architect name, architect's opening number, hardware set, date, and name of the author.
 - 1. Elevation Riser Drawings:
 - a. Furnish one set of elevation drawings with each hardware schedule submittal for hardware sets that contain electrified hardware. Illustrate the openings with proportional representations of the opening and electrified hardware components and dimension their mounting locations as well as sizes of junction boxes and power supplies. Label the components, wire quantities and gauges, high voltage requirements, as well as other building interfaces. Create a legend that complements the drawings with brand names, model numbers, and include voltage and amperage requirements. Add an operational description that includes the normal state of the door, ingress, egress, and what happens in case of power loss or fire alarm activation and any special conditions.
 - b. Upon receipt of approved hardware correct and resubmit elevation drawings with the point-to-point and system drawings.
 - 2. Point-to-Point and System Drawings: Upon receipt of approved hardware schedule, submit point-to-point per hardware set and a system drawing. Cross-reference all wiring diagrams and the associated drawings to each other.
 - a. Point-to-Point Drawings: Draw each product in a realistic representation including each terminal including those not used, and lines representing wires from component to component, labeling wire colors and gauges.
 - b. System Drawing: illustrate all equipment and building interfaces required for the entire system. Include room labels and locations, opening numbers and locations.
- G. Closeout Submittals: Include the following information as well as highlight and flag fire rated openings for annual inspections:
 - 1. Cover page with required information:
 - a. Project name
 - b. Hardware supplier's name and contact information.
 - c. Date of substantial completion.
 - 2. Final record hardware schedule.
 - 3. Product Data.

4. Keying Schedule.
5. Record Wiring Diagrams.
 - a. System Drawing.
 - b. Elevations.
 - c. Point-to-Point Drawings with all final wire colors noted as terminated. (Include network IP and/or MAC addresses of field devices).
6. Operating and Maintenance Manual.
7. Warranty Information.
8. Maintenance service agreement(s).

1.04 QUALITY ASSURANCE

- A. Hardware supplier shall employ an Architectural Hardware Consultant (AHC) as certified by DHI and a member of the seal program who will be available at reasonable times during course of work for Project hardware consultation.
 1. Electrified Door Hardware Supplier Qualifications: Experienced door hardware supplier who has completed projects with electrified door hardware similar in material, design, and extent to that is indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
 2. Access and Electrified Security Supplier Qualifications: Experienced supplier who has completed projects with access and electrified security door hardware similar in material, design, and extent to that is indicated for this Project, whose work has resulted in construction with a record of successful in-service performance and be a factory authorized distributor.
- B. Where openings are required to be accessible door hardware shall conform to ICC/ANSI A117.1.
- C. Fire Rated Door Assemblies: Where fire-rated door assemblies are indicated, provide door hardware complying with NFPA 80 that are listed and/or labeled by a qualified testing agency for fire-protection ratings indicated.
- D. Smoke and Draft Control Door Assemblies: Where smoke and draft control doors are required, provide door hardware that meets requirements of assemblies in compliance with NFPA 105.
- E. Door hardware certified to ANSI/BHMA standards as noted, manufacturer must participate and be listed in BHMA Certified Products Directory.
- F. Substitution requests shall be submitted in compliance with Division 01: create a comparison chart that includes the testing information as well as the warranty for both the specified product and the proposed substitution. Include the reason for requesting the substitution, clear catalog copy highlighting the proposed product and options, compliance statement, technical data, product warranty and lead time, to show how the proposed can meet or exceed established level of design, function, and quality.
 1. Items listed with no substitute manufacturers have been requested by the Owner to meet existing standard and will not be reviewed for substitution unless the product is no longer available.
- G. Meetings: Comply with requirements in Division 01 Section "Project Meetings."
 1. Low-voltage Coordination Meeting
 - a. Prior to furnishing door hardware submittals, convene a low-voltage coordination meeting. Meeting participants should include all affected trades including the following, but not limited to: Contractor, installer, supplier, electrical contractor, security consultant and installer, Owner's IT representative, and fire alarm consultant.
 - b. Review sequence of operation for each opening with electrified hardware to ensure that every opening functions properly for the Owner's use.
 - c. Discuss the types of electrified door hardware, inspection, and electrical roughing-in and other preparatory work performed by other trades.
 - d. Verify wire quantities, wire types, wire sizes, conduit sizes, and locations including if the power supplies will be centrally located or if they will be located near each opening.
 - e. Coordinate the door hardware, power supplies, back-up power requirements, access control components, fire alarm interfaces, elevator controls, and related building systems have all proper and necessary components to interface and operate correctly.
 2. Keying Meeting

- a. Within fourteen days of receiving approved door hardware submittals, contact Owner to establish a keying conference. Include keying meeting decisions into final keying schedule submittal after reviewing the following, but not limited to:
 - ii. Function of the building, flow of traffic, individual area's purpose, and degree of security.
 - iii. Lock functions and operation.
 - iv. Preliminary key system schematic diagram.
 - v. Verify existing keyway(s), and/or proposed keyway(s)
 - vi. Visual key and cylinder identification
 - vii. Quantity of keys required including master level keys, change keys, and keys per lock.
 - viii. Review the key control system.
 - ix. Determine the recipient and contact information for the delivery of keys and accessories.
3. Pre-installation Meeting
 - a. Convene meeting within fourteen days of receiving approved door hardware submittals. Participants from all affected buildings trades shall attend. Minimum participants should include: Contractor, installer, material supplier, manufacturer representatives, electrical contractor, security consultant, and fire alarm consultant.
 - b. Inspect and discuss preparatory work performed by other trades.
 - c. Include in-conference decisions regarding proper installation methods and procedures for receiving and handling hardware.
 - d. Review all system, elevation, and point-to-point drawings to ensure that all necessary components are provided and detailed.
 - e. Review and finalize construction schedule and verify availability of materials, installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - f. Review required testing, inspecting, and certifying procedures.
- H. Installer Qualifications: Specialized in performing installation of this Section and have five years minimum documented experience.
 1. Electrified Hardware Supplier Qualifications: Experienced door hardware installer who has installed projects with electrified door hardware similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
 2. Access Control and Electrified Security Supplier Qualifications: Experienced installer who has completed projects with access and electrified security door hardware similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance and be a factory authorized to install and commission the system.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Pack each item complete with necessary parts and fasteners in manufacturer's original packaging.
- B. Mark hardware that is not bulk packed with architect's opening number, hardware set number, and item number for each type of hardware. Include keyset symbols and corresponding hardware component for keyed products. Mark hardware that is bulk packed with manufacturers' part number and reference all hardware sets associated.
- C. Deliver hardware to the job site according to the phasing agreed upon in the pre-installation meeting. Inventory the delivery with the supplier's assistance. Immediately note shortages and damages on the shipping receipts and bill of lading. Coordinate replacement or repair with the supplier.
- D. Deliver permanent keys, cores, access control credentials, software, and related accessories directly to Owner via registered mail or overnight package service. Establish the instructions for delivery to Owner at "Keying Conference."
- E. Provide a clean, dry, and secure room for hardware delivered. Shelf hardware off the floor and with larger items of hardware stored on pallets. Arrange locksets and keyed cylinders by opening number. Organize the balance of hardware by brand, model of hardware, and hardware set number. Leave the door markings of the hardware visible for installers.
- F. Waste Management and Disposal: Separate waste materials for use or recycling in accordance with Division 01.

1.06 WARRANTY

- A. General Warranty: Comply Division 01 for Warranty requirements.
- B. Special Warranty: Warranties specified in this article will not deprive Owner of other rights.
 - 1. Ten years for manual door closers.
 - 2. Five years for locks.
 - 3. Five years for exit devices.
 - 4. One year for electromechanical door hardware.
 - 5. All access and electrified security equipment and systems will be warranted for a period of one (1) year commencing with the filing date of the Notice of Completion, provided the system has been inspected and signed off by a factory authorized installer and the factory authorized commissioning agent.

1.07 MAINTENANCE

- A. Maintenance Tool and Instructions: Furnish a complete set of specialized tools and maintenance instructions for Owner's continued adjustment, maintenance, removal, and replacement of door hardware.

PART 2 – PRODUCTS

2.01 HINGES

- A. Hinges, electric hinges, and self-closing hinges of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Standards: Products to be certified and listed by the following:
 - 1. Butts and Hinges: ANSI/BHMA A156.1.
 - 2. Template Hinge Dimensions: ANSI/BHMA A156.7.
 - 3. Self-Closing Hinges: ANSI/BHMA A156.17.
- C. Butt Hinges:
 - 1. Hinge weight and size unless otherwise indicated in hardware sets:
 - a. Doors up to 36" wide and up to 1-3/4" thick provide hinges with a minimum thickness of .134" and a minimum of 4-1/2" in height.
 - b. Doors from 36" wide up to 42" wide and up to 1-3/4" thick provide hinges with a minimum thickness of .145" and a minimum of 4-1/2" in height.
 - c. For doors from 42" wide up to 48" wide and up to 1-3/4" thick provide hinges with a minimum thickness of .180" and a minimum of 5" in height.
 - d. Doors greater than 1-3/4" thick provide hinges with a minimum thickness of .180" and a minimum of 5" in height.
 - e. Width of hinge is to be minimum required to clear surrounding trim.
 - 2. Base material unless otherwise indicated in hardware sets:
 - a. Exterior Doors: 304 Stainless Steel, Brass or Bronze material.
 - b. Interior Doors: Steel material.
 - c. Fire Rated Doors: Steel or 304 Stainless Steel materials.
 - d. Stainless Steel ball bearing hinges to have stainless steel ball bearings. Steel ball bearings are unacceptable.
 - 3. Quantity of hinges per door unless otherwise stated in hardware sets:
 - a. Doors up to 60" in height provide 2 hinges.
 - b. Doors 60" up to 90" in height provide 3 hinges.
 - c. Doors 90" up to 120" in height provide 4 hinges.
 - d. Doors over 120" in height add 1 additional hinge per each additional 30" in height.
 - e. Dutch doors provide 4 hinges.
 - 4. Hinge design and options unless otherwise indicated in hardware sets:
 - a. Hinges are to be of a square corner five-knuckle design, flat button tips and have ball bearings unless otherwise indicated in hardware sets.
 - b. Out-swinging exterior and out-swinging access-controlled doors are required to have Non-Removable Pins (NRP) to prevent removal of pin while door is in closed position.

- c. When full width of opening is required, use hinges that are designed to swing door completely from opening when door is opened to 95 degrees.
- d. When shims are necessary to correct frame or door irregularities, provide metal shims only.

5. Acceptable Manufacturers:

| |
|----------|
| Hager |
| Bommer |
| McKinney |

2.02 CONTINUOUS HINGES

- A. Continuous hinges of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Standards: Products to be certified and listed by ANSI/BHMA A156.26 Grade 1.
- C. Continuous Geared Hinges:
 - 1. Determine model number by door and frame application, door thickness, frequency of use, and fire rating requirements according to manufacturer's recommendations.
 - a. Size length of hinge to equal the actual door height unless otherwise stated in hardware sets.
- D. Material and Design:
 - 1. Base material: Anodized aluminum manufactured from 6063-T6 material; unexposed working metal surfaces be coated with TFE dry lubricant.
 - 2. Bearings:
 - a. Vertical loads be carried on Lubriloy RL bearings for non-fire rated doors.
 - b. Continuous hinges are to have a minimum spacing between bearings of 2-9/16". Typical door from 80" to 84" in height to have a minimum of 32 bearings.
 - 3. Options:
 - a. When full width of opening is required, use hinges that are designed to swing door completely from opening when door is opened to 95 degrees.
 - b. At fire rated openings provide hinges that carry a UL certification, up to and including 90-minute applications for wood doors and up to 3-hour applications for metal doors.

E. Acceptable Manufacturers:

| |
|--------|
| Hager |
| Bommer |
| Zero |

2.03 ELECTRIC STRIKES

- A. Provide for use with type of locks shown on hardware schedule.
- B. Products to be certified and listed by the following:
 - 1. ANSI/BHMA A156.31 Electric Strikes and Frame Mounted Actuators Grade 1.
 - 2. UL Tested 1500 lb. static strength.
 - 3. UL listed for Fire Doors and Frames where applicable.
 - 4. UL 1034 Burglary Resistance.
 - 5. UL 10C.3H fire-rated, 4' x 8' door.
- C. Material and Design:
 - 1. To accept up to 3/4" latch bolt and 1" deadbolt.
 - 2. Field reversible, Fail Safe or Fail Secure.
 - 3. Dual voltage 12/24 VDC.
 - 4. Tamper resistant, stainless steel corrosion resistance parts, and cast body and keeper.

D. Acceptable Manufacturers:

| |
|-------|
| Hager |
| HES |
| RCI |

2.04 LOCKS AND LATCHES

- A. Locks and latches of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Standards: Product to be certified and listed by following:
1. ANSI/BHMA A156.2 Series 4000 Certified to Grade 1.
 2. ANSI/BHMA A250.13 Certified for a minimum design load of 1150 lbf (100 psf) for single out-swinging doors measuring 36" in width and 84" in height and a minimum design load of 1150lbf (70psf) for out-swinging single doors measuring 48" in width and 84" in height.
 3. UL/cUL Labeled and listed for functions up to 3 hours for single doors up to 48" in width and up to 96" in height.
 4. UL10C/UBC 7-2 Positive Pressure Rated.
 5. ICC/ANSI A117.1
- C. Lock and latch function numbers and descriptions of manufacturer's series as listed in hardware sets.
- D. Material and Design:
1. Lock and latch chassis to be zinc dichromate for corrosion resistance.
 2. Keyed functions to be of a freewheeling design to help resist against vandalism.
 3. Non-handed, field reversible.
 4. Thru-bolt mounting with no exposed screws.
 5. Levers, zinc cast and plated to match finished designation in hardware sets.
 6. Roses wrought brass or stainless-steel material.
- E. Latch and Strike:
1. Stainless Steel latch bolt with minimum of 1/2" throw and deadlocking for keyed and exterior functions. Provide 3/4" latch bolt for pairs of fire-rated doors where required by door manufacturer. Standard backset to be 2-3/4" and adjustable faceplate to accommodate a square edge door or a standard 1/8" beveled edge door.
 2. Strike is to fit a standard ANSI A115 prep measuring 1-1/4" x 4-7/8" with proper lip length to protect surrounding trim.
- F. Options:
1. Provide knurled levers on entry side of doors that are potentially dangerous to visually impaired persons.

G. Acceptable manufacturers:

| |
|---------|
| Hager |
| Schlage |
| Best |

2.05 LOCKS AND LATCHES

- A. Locks and latches of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Standards: Product to be certified and listed by following:
1. ANSI/BHMA A156.2 Series 4000 Certified to Grade 2.
 2. UL/cUL Labeled and listed for functions up to 3 hours for single doors up to 48" in width and up to 96" in height.
 3. UL10C/UBC 7-2 Positive Pressure Rated.
 4. ICC/ANSI A117.1.
- C. Lock and latch function numbers and descriptions of manufacturer's series as listed in hardware sets.
- D. Material and Design:
1. Zinc dichromate for corrosion resistance.

2. Non-handed, field reversible.
3. Levers are to be zinc cast and plated to match finish designation in hardware sets.
4. Roses are to be of solid brass or stainless steel material and have a minimum diameter of 3".

E. Latch and Strike:

1. Stainless steel latch bolt with minimum of 1/2" throw and deadlocking for keyed and exterior functions. Provide 3/4" latch bolt for pairs of fire-rated doors where required by door manufacturer. Standard backset to be adjustable from 2-3/8" to 2-3/4" and adjustable faceplate to accommodate a square edge door or a standard 1/8" beveled edge door.
2. Strike is to fit a standard ANSI A115 prep measuring 1-1/4" x 4-7/8" width proper lip length to protect surrounding trim.

F. Options:

1. Provide knurled levers on entry side of doors that are potentially dangerous to visually impaired persons.

G. Acceptable Manufacturers:

| |
|---------|
| Hager |
| Schlage |
| Sargent |

2.06 LOCKS AND LATCHES

A. Locks and latches of one manufacturer as listed for continuity of design and consideration of warranty.

B. Standards: Product to be certified and listed by following:

1. ANSI/BHMA A156.13 Series 1000 Certified to Grade 1 for Operational and Security.
2. UL/cUL Labeled and listed up to 3 hours for single doors up to 48" in width and up to 96" in height.
3. UL10C/UBC 7-2 Positive Pressure Rated.
4. ICC/ANSI A117.1.

C. Lock and latch function numbers and descriptions of manufacturer's series as listed in hardware sets.

D. Material and Design:

1. Lock cases from fully wrapped, 12-gauge steel, zinc dichromate for corrosion resistance.
2. Non-handed, field reversible without opening lock case.
3. Break-away spindles to prevent unlocking during forced entry or vandalism.
4. Levers, zinc cast, forged brass or stainless steel and plated to match finish designation in hardware sets.
5. Sectional Roses, solid brass or stainless-steel material and have a minimum diameter of 2-7/16".
6. Armor fronts, self-adjusting to accommodate a square edge door or a standard 1/8" beveled edge door.

E. Latch and Strike:

1. Stainless steel latch bolt with minimum of 3/4" throw and deadlocking for keyed and exterior functions.
2. Strike is to fit a standard ANSI A115 prep measuring 1-1/4" x 4-7/8" with proper lip length to protect surrounding trim.
3. Deadbolts to be 1-3/4" total length with a minimum of a 1" throw and 3/4" internal engagement when fully extended and made of stainless-steel material.

F. Options:

1. Provide knurled levers on entry side of doors that are potentially dangerous to visually impaired persons.

G. Acceptable Manufacturers:

| |
|---------|
| Hager |
| Best |
| Sargent |

2.07 CYLINDERS AND KEYING

A. Cylinders of one manufacturer as listed for continuity of design and consideration of warranty.

- B. Products to be certified and listed by the following:
1. Auxiliary Locks: ANSI/BHMA A156.5
- C. Cylinders:
1. Provide cylinders matched to the types required for hardware that has a locking function and for keyed electronic functions. Furnish with appropriate collars, cams, and tailpieces to fit and operate associated hardware. Stacking collars is not acceptable, a single collar of proper size is required.
 2. Manufacturer's standard tumbler type, seven-pin IC core and seven-pin conventional core supported by the Hager H series keyway.
 3. Manufacturer's standard tumbler type six-pin conventional cylinder.
 4. Manufacturer's six-pin seven-pin small format interchangeable core (SFIC).
 5. Provide concealed key control (CKC) at cylinder by stamping or permanently marking the keyset symbol in a location on the cylinder that is concealed when installed.
- D. Keying:
1. Provide a new factory registered key system.
 2. Provide a bitting list to Owner of combinations as established, and expand to twenty-five percent for future use or as directed by Owner.
 - a. Include all of the keysets and bittings of the original key system creating one clean version of the entire key system.
 3. Keys to be shipped directly to the Owner's Representative as established during the keying conference.
 - a. Package the keys in individual envelopes, grouped by keyset symbol, and label envelopes with project name, factory registry number, and keyset symbol.
 4. Stamp large bow key blanks with visual key control (keyset symbol) and "Do Not Duplicate".
 5. Provide interchangeable cores with construction cores as required per the keying meeting.
 6. Provide construction keyed cylinders as required per the keying meeting.
 7. Single seven-pin key will operate both conventional cores and SFIC small format interchangeable cores. (Hager H series keyway)
- E. Acceptable Manufacturers:
- | |
|---------|
| Hager |
| Schlage |
| Sargent |

2.08 CLOSERS

- A. Closers of one manufacturer as listed for continuity of design and consideration of warranty. Unless otherwise indicated on hardware schedule, comply with manufacturer's recommendations for size of closer, depending on width of door, frequency of use, atmospheric pressure, ADAAG requirements, and fire rating.
- B. Standards: Manufacturer to be certified by the following:
1. BHMA Certified ANSI A156.4 Grade 1.
 2. ADA Complaint ANSI A117.1.
 3. UL/cUL Listed up to 3 hours.
 4. UL10C Positive Pressure Rated.
 5. UL10B Neutral Pressure Rated.
- C. Material and Design:
1. Provide aluminum non-handed bodies with full plastic covers.
 2. Closers will have separate staked adjustable valve screws for latch speed, sweep speed, and backcheck.
 3. Provide Tri-Pack arms and brackets for regular arm, top jamb, and parallel arm mounting.
 4. Double heat-treated steel, tempered springs.
 5. Precision machined heat-treated steel piston.
 6. Triple heat-treated steel spindle.
 7. Full rack and pinion operation.

- D. Mounting:
1. Out-swing doors surface parallel arm mount closers except where noted on hardware schedule.
 2. In-swing doors surface regular arm mount closers except where noted on hardware schedule.
 3. Provide brackets and shoe supports for aluminum doors and frames to mount fifth screw.
 4. Furnish drop plates where top rail conditions on door do not allow for mounting of closer and where backside of closer is exposed through glass.
- E. Size closers in compliance with requirements for accessibility (ADAAG). Comply with following maximum opening force requirements.
1. Interior hinged openings: 5.0 lbs.
 2. Fire-rated and exterior openings are to be adjusted to have minimum opening force allowable by authority having jurisdiction.
- F. Fasteners: Provide self-reaming, self-tapping wood and machine screws, and sex nuts and bolts for each closer.
- G. Acceptable manufacturers:
- | |
|---------|
| Hager |
| Norton |
| Sargent |

2.09 LOW ENERGY POWER OPERATORS

- A. Low energy power operators of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Products to be certified and listed by the following:
1. Power Assist and Low Energy Power Operated Doors: ANSI/BHMA A156.19.
 2. ADA Complaint ANSI A117.1.
- C. Materials and Design:
1. Self-contained electrical control unit, including necessary transformers, relays, rectifiers, and other electronic components for proper operation, switching and control of door up to 350 lbs. and include time delay for normal cycle.
 2. On pairs of doors, door to be opened manually without the other door opening.
 3. Operates as a mechanical closer if power is disconnected. Forces consistent with ANSI A117.1 and ANSI A156.19.
 4. Provide delay switches for motor activation, exit device latch retraction interfacing and hold open times. Hold open times to be adjustable from 1 second to continuous seconds.
 5. Adjustable vestibule sequencing input for operation of two or more units. Specify 2-659-0240.
 6. Adjustable powered swing degree from 80 degrees to 110 degrees.
 7. Integral obstruction detection for closing and opening cycle.
 8. Adjustable built-in stop, set from 80 degrees maximum to 180 degrees manual swing.
 9. When in "blow open" operation for smoke ventilation, operator will stay in the open position when loss of power.
 10. Boost to close selectable on/off switch.
- D. Signage: Provide signage in according to the requirements of ANSI/BHMA A156.19.
- E. Acceptable Manufacturers:
- | |
|--------|
| Hager |
| LCN |
| Norton |
- F. Actuators:
1. Opening cycle activated by pressing switches with international symbol of accessibility and "PUSH TO OPEN" engraved on faceplate.
 2. Switches installed in standard 2-gang electrical wall box and placed in a location in compliance with ANSI A117.1.
 3. Wireless actuators optional.
 4. Provide bollards as required where a suitable wall mount is not possible.

G. Acceptable Manufacturers:

| |
|----------|
| Hager |
| MS Sedco |
| SDC |

2.10 PROTECTIVE TRIM

- A. Protective trim of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Size of protection plate: single doors, size two inches less door width (LDW) on push side of door, and one inch less door width on pull side of door. For pairs of doors, size one inch less door width (LDW) on push side of door, and 1/2 inch on pull side of door. Adjust sizes to accommodate accompanying hardware, such as, edge guards, astragals, and others.
1. Kick Plates 10" high or sized to door bottom rail height.
 2. Mop Plates 4" high.
 3. Armor Plates 36" high.
- C. Products to be certified and listed by the following:
1. Architectural Door Trim: ANSI/BHMA A156.6.
 2. UL.
- D. Material and Design:
1. 0.050" gage stainless steel.
 2. Corner's square, polishing lines, or dominant direction of surface pattern so they run across door width of plate.
 3. Bevel top, bottom, and sides uniformly leaving no sharp edges.
 4. Countersink holes for screws. Space screw holes so they are no more than eight inches CTC, along a centerline not over 1/2" in from edge around plate. End screws maximum of 0.53" from corners.
- E. UL label stamp required on protection plates when top of plate is more than 16 inches above bottom of door on fire rated openings. Verify door manufacturer's UL listing for maximum height and width of protection plate to be used.

F. Acceptable Manufacturers:

| |
|--------|
| Hager |
| Trimco |
| Burns |

2.11 STOPS AND HOLDERS

- A. Stops and holders of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Wall Stops: Provide door stops wherever necessary to prevent door or hardware from striking an adjacent partition or obstruction. Provide wall stops when possible. Door stops and holders mounted in concrete floor or masonry walls have stainless steel machine screws and lead expansion shields.
- C. Products to be certified and listed by the following:
1. Auxiliary Hardware: ANSI/BHMA A156.16.
- D. Acceptable Manufacturers:
- | |
|----------|
| Hager |
| Rockwood |
| Burns |
- E. Overhead Stops and Holders: Provide overhead stops and holders for doors that open against equipment, casework sidelights and other objects that would make wall stops/holders and floor stops/holders inappropriate. Provide sex bolt attachments for mineral core wood door applications.
- F. Products to be certified and listed by the following:

1. Overhead Stops and Holders: ANSI/BHMA A156.8 Grade 1.

G. Acceptable Manufacturers:

| |
|---------------|
| Hager |
| Glynn Johnson |
| Sargent |

2.12 KEY SWITCHES

- A. Key switches of one manufacturer as listed for continuity of design and consideration of warranty.

B. Material and Design:

1. Single gang, wall mounted, recessed mortise cylinder.
2. Tamper-resistant spanner screws.
3. 20-gauge stainless steel faceplate.

C. Functions:

1. Momentary (MO).
2. Timed actuation (1-60 seconds).
3. Alternate action (on/off) (AA).

D. Options:

1. Anti-tamper switch (ATS).
2. One (1) green Led (LEDG).
3. One (1) red LED (LEDR).
4. One (1) green LED and one (1) red LED (2.LED).

E. Acceptable Manufacturers:

| |
|-------|
| Hager |
| SDC |
| RCI |

2.13 THRESHOLDS

- A. Thresholds of one manufacturer as listed for continuity of design and consideration of warranty.

- B. Set thresholds for exterior and acoustical openings in full bed of sealant with lead expansion shields and stainless-steel machine screws complying with requirements specified in Division 7 Section "Joint Sealants: Notched in field to fit frame by hardware installer. Refer to Drawings for special details.

C. Standards: Manufacturer to be certified by the following:

1. Thresholds: ANSI/BHMA A156.21.
2. American with Disabilities Act Accessibility Guidelines (ADAAG).

D. Acceptable Manufacturers:

| |
|--------------|
| Hager |
| K.N. Crowder |
| Reese |

2.14 DOOR GASKETING AND WEATHERSTRIP

- A. Door gasketing and weatherstrip of one manufacturer as listed for continuity of design and consideration of warranty.

- B. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing where indicated on hardware schedule. Provide noncorrosive fasteners for exterior applications.

1. Perimeter gasketing: Apply to head and jamb, forming seal between door and frame.
2. Meeting stile gasketing: Fasten to meeting stiles, forming seal when doors are in closed position.

3. Door bottoms: Apply to bottom of door, forming seal with threshold or floor when door is in closed position.
 4. Sound Gasketing: Cutting or notching for stop mounted hardware not permitted.
 5. Drip Guard: Apply to exterior face of frame header. Lip length to extend 4" beyond width of door.
- C. Products to be certified and listed by the following:
1. Door Gasketing and Edge Seal Systems: ANSI/BHMA A156.22.
 2. BHMA certified for door sweeps, automatic door bottoms, and adhesive applied gasketing.
- D. Smoke-Labeled Gasketing: Comply with NFPA 105 listed, labeled, and acceptable to Authorities Having Jurisdiction, for smoke control indicated.
1. Provide smoke-labeled gasketing on 20-minute rated doors and on smoke rated doors.
- E. Fire-Rated Gasketing: Comply with NFPA 80 listed, labeled, and acceptable to Authorities Having Jurisdiction, for fire ratings indicated.
- F. Refer to Section 08 1416 Wood Doors for Category A or Category B. Comply with UBC 7-2 and UL10C positive pressure where frame applied intumescent seals are required.

G. Acceptable Manufacturers:

| |
|--------------|
| Hager |
| K.N. Crowder |
| Reese |

2.15 FOLDING DOOR HARDWARE

- A. Folding door hardware of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Folding Door Hardware: Provide complete sets of rails, hangers, supports, bumpers, floor guides, and accessories indicated.
- C. Standards: Manufacturer conforms to:
1. Folding Door Hardware: ANSI/BHMA A156.14.
- D. Folding Door Hardware: Rated for doors weighing up to 100 lbs.
1. Provide door hardware for interior bi folding doors when not furnished as part of door package.

E. Acceptable Manufacturers:

| |
|--------------|
| Hager |
| Grant |
| K.N. Crowder |

2.16 SILENCERS

- A. Where smoke, light, or weather seal are not required, provide three silencers per single door frame, two per double door frame and four per Dutch door frame.
- B. Products to be certified and listed by the following:
1. Auxiliary Hardware: ANSI/BHMA A156.16

C. Acceptable Manufacturers:

| |
|----------|
| Hager |
| Rockwood |
| Trimco |

2.17 KEY CABINET

- A. Provide key cabinet; surface mounted to wall.

- B. Key control system:
1. Include two sets of key tags, hooks, labels, and envelopes.
 2. Contain system in metal cabinet with baked enamel finish.
 3. Capacity will be able to hold actual quantities of keys, plus 50 percent.
 4. Provide tools, instruction sheets, and accessories required to complete installation.

C. Acceptable Manufacturers:

| |
|---------------------|
| Lund Equipment |
| Telkee Incorporated |
| Key Control |

2.18 FINISHES

- A. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if within range of approved samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within range of approved samples.
- B. Comply with base material and finish requirements indicated by ANSI/BHMA A156.18 designations in hardware schedule.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine doors and frames, with installers present, for compliance with requirements for installation tolerances, labeled fire-rated construction, wall and floor construction, and other conditions affecting performance.
- B. Where hardware will be installed directly on walls inspect applications for blocking material of sufficient type and size for hardware.
- C. Examine roughing-in and cabling for electrical power systems to verify actual locations of wiring connections and wiring supplied matches the requirements as described in the wiring diagrams before electrified door hardware installation.
- D. Perform a site survey to determine proper mounting locations for all wirelessly communicating devices. Verify that the surrounding construction and equipment will not interfere with the communication between components.
- E. Notify Architect via a prepared written report and endorsed by installer of any discrepancies between the door schedule, door types, drawings, and scheduled hardware. List conditions detrimental to application, to the proper and timely completion of the work and performance of the hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.02 INSTALLATION

- A. Install hardware using manufacturers' recommended fasteners and installation instructions, at height locations and clearance tolerances that comply with:
1. NFPA 80
 2. NFPA 105
 3. ICC/ANSI A117.1
 4. DHI Publication – Installation Guide for Doors and Hardware
 5. Approved shop drawings
 6. Approved hardware schedule
- B. Install soffit mounted gaskets prior to other soffit mounted hardware ensuring a continuous seal around the perimeter of the opening without cutting or notching.
- C. Locate surface mounted door closers on stairwell side of stair doors, interior side of exterior openings, or on the room side of openings, unless it is a sterile room.

- D. Locate wall mounted bumper to contact the operating trim. Verify that pushbuttons of locksets do not contact the stop and inadvertently lock the door.
- E. Mount armor, mop, and kick plates flush with the bottom of the door and centered horizontally on the door.
- F. Notch thresholds with no larger than a 1/32-inch gap matching the frame profile. Set in a full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants" forming a tight seal between threshold and mounting surface. Caulk and seal the entire perimeter to prevent water leakage. Remove excess sealants immediately and clean the area thoroughly.
- G. Do not install surface mounted items until finishes have been completed on substrates involved. Set unit level, plumb and true to line location.
- H. Locate power supplies and junction boxes as directed and verified in the low-voltage coordination meeting.
- I. Perform final connections of the system components to match the approved operational narratives. Use cable markers to label wires at each termination or end to match the final wiring diagrams. Terminate wiring in accordance with the manufacturer's recommendations. Where quick-connects are seated correctly. Provide wire ties and adhesive pads to secure and organize wires in enclosures. Outside of enclosures seal terminations in waterproof connectors. Include record drawings of the point-point and the elevations in a plastic sleeve attached to the inside cover of the power supply/junction box enclosure for the Owner's use.

3.03 FIELD QUALITY CONTROL

- A. Schedule a final walk through to inspect hardware installation ten (10) business days before final acceptance of the Owner. Visually inspect for proper fasteners and verify that doors open, close, latch properly, and that openings are installed to meet NFPA 80 and ANSI A117.1 requirements. Correct deficiencies, including missing hardware immediately. Provide a written report detailing discrepancies of each opening within five (5) business days of the walk through.
- B. Prior to receiving certificate of occupancy have doors inspected by a Certified Fire and Egress Door Assembly Inspector (CFDAI), as certified by Intertek (ITS), submit a written report to the Owner and Contractor. Doors failing inspection must be adjusted, modified, or replaced to be within appropriate code requirements without delay.
- C. Test the functionality of electrified openings upon completion of the installation in accordance with the description of operation and the Owner's intent under the supervision of a factory authorized representative and an Owner's representative, verify that all features of the software are working correctly, including interfaces with any associated trades. Document the result of all tests and provide these results to the Owner and correct immediately.

3.04 ADJUSTMENT, CLEANING, AND DEMONSTRATING

- A. Prior to final adjustments, the HVAC system must be completed and balanced. Test that all openings meet ANSI A117.1 for closer opening pressure, closing speed, latching, and hardware operating forces. Replace items that cannot be adjusted to operate freely and smoothly or as intended for application.
- B. Prior to final walk-through inspection, clean adjacent surfaces soiled by hardware installation. Clean finish hardware per manufacturer's instructions after final adjustments have been made. Remove all protection and replace items that cannot be cleaned to manufacturer's level of finish quality.
- C. Demonstration and training will be conducted as per the following sessions. All sessions will be recorded and turned over to the Owner for future use.
 - 1. Hardware Maintenance: Conduct a training class for building maintenance personnel demonstrating the adjustment, operation, and maintenance of mechanical and electrified hardware. Special tools for finish hardware to be turned over and demonstrated usage at the meeting.
 - 2. Key control system: Train the Owner's designated representative on the key control system demonstrating the permanent file keys, duplicate loaner keys, key receipts, key envelopes, key change identification sheets, bitting lists,

tags, and labels. When key management software is provided training will be provided for the setup and usage of the software.

3. Access control: Demonstrate the management and programming of the access control system including the following, but not limited to:
 - a. System administration personnel to manage the LAN and databases including updating, maintaining, and backing up the system and database software.
 - b. Instruct on all software features and programming for managing the credentials, users, access points, time zones, alarms and events, door monitoring, audit trails, and time schedules.

3.05 PROTECTION

- A. Leave manufacturer's protective film intact and, protect exit devices, locks, and surface mounted hardware with kraft paper or bubble wrap. Cover fire labels at painted products that bear a label with magnetic or masking tape. Keep protection in place until time of final cleaning and adjustment.

3.06 HARDWARE SET SCHEDULE

- A. Door hardware items have been placed in sets which are intended to be a guide of design, grade, quality, function, operation, and performance.
 1. Review products that may require mounting accessories to meet door, frame, and swing conditions as these final details vary from manufacturer to manufacturer and provide as required.
 2. Where additional items of hardware are required for completion of the Work, a written statement of such omission, error, or other discrepancy is required to be submitted to the Architect, prior to bid date for clarification via an addendum.
 3. Abbreviations listed below do not appear in the manufacturer's literature, for any other abbreviations refer to manufacturer's literature.:
 - a. LDW = Less than Door Width
 - b. LAR = Length as Required
 - c. QTY = Quantity
 - d. CTC = Centerline to Centerline
 - e. BTB = Back-to-Back mounting

3.07 HARDWARE SCHEDULE

Finish List

| Code | Description |
|-------|-----------------------|
| 630 | Satin Stainless Steel |
| AL | Aluminum |
| ALM | Sprayed Aluminum |
| CLR | Clear Anodized |
| GREY | Grey |
| MIL | Mill Finish |
| S | Charcoal |
| US26D | Chromium Plated, Dull |
| US32D | Stainless Steel, Dull |
| WHT | White |

Manufacturer List

| Code | Name |
|------|-----------------|
| | By Others |
| HA | Hager |
| HA | Hager Companies |
| HS | HES |

Hardware Sets

Set #01

Doors: D101A

| | | | | |
|---|--------------------------|--------------------------|-------|----|
| 1 | Continuous Hinge(s) | 780-111HD x LAR | CLR | HA |
| 1 | Storeroom Lockset | 3480 WTN SFIC | US26D | HA |
| 2 | Cylinder Core(s) | 3969-C | US26D | HA |
| 1 | Electric Strike | 1500C | 630 | HS |
| 1 | Overhead Stop(s) | 7016 SRF | US32D | HA |
| 1 | Single Operator | 8318 Push | ALM | HA |
| 1 | Kick Plate(s) | 190S 8" x 2" LDW | US32D | HA |
| 1 | Threshold | 520S N x LAR | MIL | HA |
| 1 | Weatherstrip | 881S N x LAR | MIL | HA |
| 1 | Door Sweep(s) | 770S x LAR | MIL | HA |
| 1 | Rain Drip | 810S x LAR | MIL | HA |
| 1 | Door Position Switch(es) | By Security Provider | | |
| 1 | Reader/Keypad | By Security Provider | | |
| 1 | Request to Exit Switch | By Security Provider | | |
| 1 | Key Switch | 29KS ASD RED/GREEN LED'S | US32D | HA |
| 1 | Mortise Cylinder(s) | 3902 SFIC x LAR | US26D | HA |
| 2 | Actuator | 8228-00H/06 | US32D | HA |
| 1 | Wiring Diagrams | Wiring Diagrams | | |

Operational Description:

Door normally closed and locked.

Valid credential unlocks door.

Free egress at all times by manually opening door or pressing inside actuator opens door.

Upon loss of power, operator is disabled and door to remain locked.

Key switch enables (green LED) and disables (red LED) outside actuator when door is locked.

Door to be monitored by access control system.

Set #02

Doors: D101B, D113

| | | | | |
|---|-----------------|--------------|-------|----|
| 1 | Bifold Door Set | 9570RC x LAR | AL | HA |
| 2 | Wire Pull | H 305D 4 | US26D | HA |

Set #03

Doors: D101C

| | | | |
|-----------------------|----------------------------|-------|----|
| 3 Hinge(s) | BB1168 4 1/2" x 4 1/2" NRP | US26D | HA |
| 1 Passage Set | 2510 WTN | US26D | HA |
| 1 Electric Strike | 2930 CYL | US32D | HA |
| 1 Single Operator | 8318 Push | ALM | HA |
| 1 Kick Plate(s) | 190S 10" x 2" LDW | US32D | HA |
| 1 Convex Wall Stop(s) | 232W | US32D | HA |
| 1 Seal | 726 x LAR | S | HA |
| 2 Actuator | 8228-00H/06 | US32D | HA |
| 1 Wiring Diagrams | Wiring Diagrams | | |

Operational Description:

Door normally closed and unlocked.

Free ingress and egress by manually opening door or pressing either actuator opens door.

Upon loss of power, operator is disabled.

Set #04

Doors: D102A

| | | | |
|-----------------|--------------------|-------|----|
| 3 Hinge(s) | BB1279 4 1/2" x 4" | US26D | HA |
| 1 Passage Set | 2510 WTN | US26D | HA |
| 1 Closer(s) | 5200 HDCS | ALM | HA |
| 1 Kick Plate(s) | 190S 10" x 2" LDW | US32D | HA |
| 3 Silencers | 307D | GREY | HA |

Set #05

Doors: D102B

| | | | |
|-----------------------|--------------------|-------|----|
| 3 Hinge(s) | BB1279 4 1/2" x 4" | US26D | HA |
| 1 Passage Set | 2510 WTN | US26D | HA |
| 1 Closer(s) | 5200 | ALM | HA |
| 1 Kick Plate(s) | 190S 10" x 2" LDW | US32D | HA |
| 1 Convex Wall Stop(s) | 232W | US32D | HA |
| 1 Seal | 726 x LAR | S | HA |

Set #06

Doors: D103A

| | | | |
|-----------------|--------------------|-------|----|
| 3 Hinge(s) | BB1279 4 1/2" x 4" | US26D | HA |
| 1 Passage Set | 2510 WTN | US26D | HA |
| 1 Closer(s) | 5200 TRK NHOTA | ALM | HA |
| 1 Kick Plate(s) | 190S 10" x 2" LDW | US32D | HA |
| 1 Seal | 726 x LAR | S | HA |

Set #07

Doors: D103B

| | | | |
|-----------------------|--------------------|-------|----|
| 3 Hinge(s) | BB1279 4 1/2" x 4" | US26D | HA |
| 1 Passage Set | 2510 WTN | US26D | HA |
| 1 Convex Wall Stop(s) | 232W | US32D | HA |
| 3 Silencers | 307D | GREY | HA |

Set #08

Doors: D107

| | | | |
|---------------------|------------------------|-------|----|
| 3 Hinge(s) | BB1279 4 1/2" x 4" NRP | US26D | HA |
| 1 Storeroom Lockset | 2580 WTN SFIC | US26D | HA |
| 1 Cylinder Core(s) | 3969-C | US26D | HA |
| 1 Closer(s) | 5200 HDCS | ALM | HA |
| 1 Kick Plate(s) | 190S 10" x 2" LDW | US32D | HA |
| 1 Seal | 726 x LAR | S | HA |

Set #09

Doors: D108, D109, D210, D211, D212

| | | | |
|------------------------|--------------------|-------|----|
| 3 Hinge(s) | BB1279 4 1/2" x 4" | US26D | HA |
| 1 Office Lockset | 2550 WTN SFIC | US26D | HA |
| 1 Concave Wall Stop(s) | 236W | US32D | HA |
| 3 Silencers | 307D | GREY | HA |

Set #10

Doors: D114, D207, D208

| | | | |
|----------------------------|--------------------|-------|----|
| 3 Hinge(s) | BB1279 4 1/2" x 4" | US26D | HA |
| 1 Privacy Set w/ Indicator | 3896 SECT WTN | US32D | HA |
| 1 Closer(s) | 5200 TRK NHOTA | ALM | HA |
| 1 Mop Plate(s) | 190S 4" x 1" LDW | US32D | HA |
| 1 Kick Plate(s) | 190S 10" x 2" LDW | US32D | HA |
| 3 Silencers | 307D | GREY | HA |

Set #11

Doors: D112

| | | | |
|----------------------------|--------------------|-------|----|
| 3 Hinge(s) | BB1279 4 1/2" x 4" | US26D | HA |
| 1 Privacy Set w/ Indicator | 3896 SECT WTN | US32D | HA |
| 1 Electric Strike | 2930 MOR | US32D | HA |
| 1 Single Operator | 8318 PULL 36" | ALM | HA |
| 1 Mop Plate(s) | 190S 4" x 1" LDW | US32D | HA |
| 1 Kick Plate(s) | 190S 10" x 2" LDW | US32D | HA |
| 1 Convex Wall Stop(s) | 232W | US32D | HA |
| 3 Silencers | 307D | GREY | HA |
| 1 Door Position Switch(es) | 2-659-0369 | WHT | HA |
| 1 Sequencer | 2-659-0240 | | HA |
| 1 Push to Lock Button | 2-659-0370 | US32D | HA |
| 1 Occupancy Indicator(s) | 2-659-0371 | | HA |
| 2 Actuator | 8228-00H/06 | US32D | HA |
| 1 Wiring Diagrams | Wiring Diagrams | | |

Operational Description:

Door normally closed and unlocked.

Free entry and egress by manually opening door or pressing either actuator opens door.

Pressing push to lock button locks door and disables outside actuator.

Opening door resets the system.

Upon loss of power, door will stay locked and operator is disabled.

Set #12

Doors: D201

| | | | |
|-----------------|--------------------|-------|----|
| 3 Hinge(s) | BB1168 4 1/2" x 4" | US26D | HA |
| 1 Passage Set | 2510 WTN | US26D | HA |
| 1 Closer(s) | 5200 TRK NHOTA | ALM | HA |
| 1 Kick Plate(s) | 190S 10" x 2" LDW | US32D | HA |
| 1 Seal | 726 x LAR | S | HA |

Set #13

Doors: D202

| | | | |
|-----------------------|--------------------|-------|----|
| 3 Hinge(s) | BB1279 4 1/2" x 4" | US26D | HA |
| 1 Passage Set | 2510 WTN | US26D | HA |
| 1 Convex Wall Stop(s) | 232W | US32D | HA |
| 3 Silencers | 307D | GREY | HA |

Appendix “C”

01 General

The following amendments are hereby made an integral part of the Contract Documents for the above project, including all applicable sub-contractors affected.

1.1 NOTES

- .1 Indicate the receipt of this Addendum on the specified Tender Form as required.
- .2 Included attachments are as follows:
 - .1 Addendum No. ME002 from Piotrowski Consultants Ltd. (1 pages attached).

1.2 GENERAL CLARIFICATIONS

- .1 None

2 Amendments

2.1 MECHANICAL & ELECTRICAL

- .1 See attached Mechanical & Electrical Addendum 3 from Piotrowski Consultants Limited for full details.

End of Addendum

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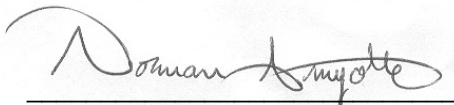
ADDENDUM NO. #ME002

September 18, 2025

The following addendum shall be part and parcel of the tendering document and shall supersede the drawings and/or specifications where applicable. Upon receipt of same, staple it directly to the inside front cover of the specifications.

Drawings:

1. Drawing 1/M104
 1. EF#1 and associated ductwork in Electrical Room 107 shall move towards the north wall for at least 12" to make room for IT cabinet. Exact location to be coordinated on site with other trades.
2. Drawing 1/E101
 1. IT cabinet and associated receptacles in Electrical Room 107 shall move towards the north wall for 12". Coordinate equipment's exact location on site with other trades.



Norm Amyotte, P. Eng