

Date: December 05, 2019

SECTION 00 90 02

**BIDDING AND CONTRACT REQUIREMENTS
ADDENDUM NUMBER 2**

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Distributed via: Email

To: Prospective Bidders
Re: **ADDENDUM NUMBER 2 TO THE BIDDING DOCUMENTS FOR:**

**Oak Brook Park District
Central Park West Mechanical Renovations**
Architect's Project Number: 220005.00

This addendum forms a part of the bidding and contract documents and modifies the original bidding documents dated November 22, 2019. Acknowledge receipt of this addendum in the space provided on Bid Form.
FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

I. PART 1 - ADDENDUM TO THE PROJECT MANUAL

- A. Document Table of Contents.
 - 1. Page TOC-1:
 - a. ADD the following item(s) after "00 90 02 Addendum Number 2":
"00 90 02 Addendum Number 2".
- B. Document 08 71 00 – Door Hardware.
 - 1. ADD Document 08 71 00 – Door Hardware. Refer to attached Document 08 71 00.

II. PART 2 - CLARIFICATIONS

- A. Project Manual
 - 1. Document 08 23 23 – Aluminum Clad Wood Hinged Doors.
 - a. Door species to be Pine with factory finish.
- B. Door and Window Replacement
 - 1. Drawing X/A-101.2
 - a. Refer to Door Types for correct French door type. Head, Jamb and Sill details door type as shown is for representation.

END OF SECTION

This addendum consists of one (1) page.

This addendum has seven (7) attached pages identified below:

- Project Manual (7 pages):
 - Document 08 71 00 – Door Hardware".

SECTION 08 71 00
DOOR HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Hardware for aluminum clad wood hinged doors.
- B. Thresholds.
- C. Weatherstripping and gasketing.

1.02 RELATED REQUIREMENTS

- A. Section 07 92 00 - Joint Sealants: Sealants for setting exterior door thresholds.
- B. Section 08 22 23 - Aluminum clad wood hinged doors.

1.03 REFERENCE STANDARDS

- A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
- B. BHMA (CPD) - Certified Products Directory; 2017.
- C. BHMA A156.1 - American National Standard for Butts and Hinges; 2016.
- D. BHMA A156.2 - American National Standard for Bored and Preassembled Locks & Latches; 2017.
- E. BHMA A156.3 - American National Standard for Exit Devices; 2014.
- F. BHMA A156.4 - American National Standard for Door Controls - Closers; 2013.
- G. BHMA A156.6 - American National Standard for Architectural Door Trim; 2015.
- H. BHMA A156.8 - American National Standard for Door Controls - Overhead Stops and Holders; 2015.
- I. BHMA A156.15 - American National Standard for Release Devices - Closer Holder, Electromagnetic and Electromechanical; 2015.
- J. BHMA A156.16 - American National Standard for Auxiliary Hardware; 2013.
- K. BHMA A156.17 - American National Standard for Self Closing Hinges & Pivots; 2014.
- L. BHMA A156.18 - American National Standard for Materials and Finishes; 2016.
- M. BHMA A156.20 - American National Standard for Strap and Tee Hinges, and Hasps; 2006 (Reaffirmed 2012).
- N. BHMA A156.21 - American National Standard for Thresholds; 2014.
- O. BHMA A156.22 - American National Standard for Door Gasketing and Edge Seal Systems, Builders Hardware Manufacturers Association; 2017.
- P. BHMA A156.23 - American National Standard for Electromagnetic Locks; 2010.
- Q. BHMA A156.26 - American National Standard for Continuous Hinges; 2012.
- R. BHMA A156.115W - Hardware Preparation in Wood Doors with Wood or Steel Frames; 2006.
- S. DHI (H&S) - Sequence and Format for the Hardware Schedule; 1996.
- T. DHI WDHS.3 - Recommended Locations for Architectural Hardware for Flush Wood Doors; 1993; also in WDHS-1/WDHS-5 Series, 1996.
- U. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.
- V. NFPA 70 - National Electrical Code; 2017.
- W. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2016.
- X. NFPA 101 - Life Safety Code; 2017.
- Y. UL (DIR) - Online Certifications Directory; current listings at database.ul.com.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate the manufacture, fabrication, and installation of products that door hardware is installed on.
- B. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.
- C. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.
- D. Keying Requirements Meeting:
 - 1. Schedule meeting at project site prior to General Contractor occupancy.
 - 2. Attendance Required:
 - 3. Agenda:
 - 4. Incorporate "Keying Requirements Meeting" decisions into keying submittal upon review of door hardware keying system including, but not limited to, the following:
 - 5. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Metra, participants, and those affected by decisions made.
 - 6. Deliver established keying requirements to manufacturers.

1.05 SUBMITTALS

- A. See Section 01 33 00 - Submittals, for submittal procedures.
- B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project, and includes construction details, material descriptions, finishes, and dimensions and profiles of individual components.
- C. Shop Drawings - Door Hardware Schedule: Submit detailed listing that includes each item of hardware to be installed on each door. Use door numbering scheme as included in Contract Documents.
 - 1. Prepared by or under supervision of Architectural Hardware Consultant (AHC).
 - 2. Conform to DHI (H&S) using door numbers and hardware set numbers as indicated in construction documents.
 - 3. List groups and suffixes in proper sequence.
 - 4. Provide complete description for each door listed.
 - 5. Provide manufacturer's and product names, and catalog numbers; include functions, types, styles, sizes and finishes of each item.
- D. Samples for Verification:
 - 1. Submit minimum size of 2 by 4 inch for sheet samples, and minimum length of 4 inch for other products.
 - 2. Submit one (1) sample of latchset, lockset, and closer illustrating style, color, and finish.
 - 3. Return full-size samples to Contractor.
 - 4. Submit product description with samples.
- E. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- F. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
 - 1. Submit manufacturer's parts lists and templates.
 - 2. Bitting List: List of combinations as furnished.
- G. Keying Schedule:
 - 1. Submit three (3) copies of Keying Schedule in compliance with requirements established during Keying Requirements Meeting unless otherwise indicated.
- H. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Metra's name and registered with manufacturer.
- I. Project Record Documents: Record actual locations of concealed equipment, services, and conduit.

- J. Maintenance Materials and Tools: Furnish the following for Metra's use in maintenance of project.
1. See Section 01 60 00 - Product Requirements, for additional provisions.
 2. Lock Cylinders: One for each master keyed group.
 3. Tools: One set of each special wrench or tool applicable for each different or special hardware component, whether supplied by hardware component manufacturer or not.

1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified for commercial door hardware with at least three years of documented experience.
- C. Supplier Qualifications: Company with certified Architectural Hardware Consultant (AHC) and Electrified Hardware Consultant (EHC) to assist in work of this section.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Package hardware items individually; label and identify each package with door opening code to match door hardware schedule.

1.08 WARRANTY

- A. Warranty against defects in material and workmanship for period indicated, from Date of Substantial Completion.
1. Closers: Five years, minimum.
 2. Locksets and Cylinders: Five Years, minimum.
 3. Other Hardware: Five years, minimum.

PART 2 PRODUCTS

2.01 DESIGN AND PERFORMANCE CRITERIA

- A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.
- B. Provide individual items of single type, of same model, and by same manufacturer.
- C. Provide door hardware products that comply with the following requirements:
1. Applicable provisions of federal, state, and local codes.
 2. Accessibility: ADA Standards and ICC A117.1.
 3. Applicable provisions of NFPA 101.
 4. Listed and certified compliant with specified standards by BHMA (CPD).
 5. Auxiliary Hardware: BHMA A156.16.
 6. Straps and Tee Hinges: BHMA A156.20.
 7. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.
 8. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified.
- E. Lock Function: Provide lock and latch function numbers and descriptions of manufacturer's series. Refer to Door Hardware Schedule.
- F. Fasteners:
1. Provide fasteners of proper type, size, quantity, and finish that comply with commercially recognized standards for proposed applications.
 - a. Aluminum fasteners are not permitted.
 - b. Provide phillips flat-head screws with heads finished to match door surface hardware unless otherwise indicated.
 2. Provide machine screws for attachment to reinforced hollow metal and aluminum frames.
 - a. Self-drilling (Tek) type screws are not permitted.
 3. Provide stainless steel machine screws and lead expansion shields for concrete and masonry substrates.
 4. Provide wall grip inserts for hollow wall construction.

5. Fire-Rated Applications: Comply with NFPA 80.
 - a. Provide wood or machine screws for hinges mortised to doors or frames, strike plates to frames, and closers to doors and frames.
 - b. Provide steel through bolts for attachment of surface mounted closers, hinges, or exit devices to door panels unless proper door blocking is provided.
6. Concealed Fasteners: Do not use through or sex bolt type fasteners on door panel sides indicated as concealed fastener locations, unless otherwise indicated.

2.02 CYLINDRICAL LOCKS

- A. Manufacturers:
 1. Corbin Russwin, Sargent, or Yale; an Assa Abloy Group company: www.assaabloydss.com.
 2. Schlage, an Allegion brand: www.allegion.com/us. Basis of Design
 3. or equal to or superior to substitute by Architect and Owner
 4. Substitutions: See Section 01 60 00 – Product Requirements.
- B. Cylindrical Locks (Bored): Complying with BHMA A156.2, Grade 1, 4000 Series.
 1. Bored Hole: 2-1/8 inch diameter.
 2. Latchbolt Throw: 1/2 inch, minimum.
 3. Backset: 2-3/4 inch unless otherwise indicated.
 4. Strikes: Provide manufacturer's standard strike for each latchset or lockset with strike box and curved lip extending to protect frame in compliance with indicated requirements.
 - a. Finish: To match lock or latch.
 5. Provide a lock for each door, unless otherwise indicated that lock is not required.
 6. Trim: Provide lever handle or pull trim on outside of each lock, unless otherwise indicated.

2.03 LEVERSETS / LOCKSETS

- A. Manufacturers:
 1. Corbin Russwin, Sargent, or Yale; an Assa Abloy Group company: www.assaabloydss.com.
 2. Schlage, an Allegion brand: www.allegion.com/us. Basis of Design
 3. or equal to or superior to substitute by Architect and Owner.
 4. Substitutions: See Section 01 60 00 – Product Requirements.
- B. Leversets
 1. Function: Entrance lock L9453.
 2. Lever: 05
 3. Rose: A

2.04 CLOSERS

- A. Manufacturers; Surface Mounted:
 1. Corbin Russwin, Norton, Rixson, Sargent, or Yale; an Assa Abloy Group company: www.assaabloydss.com.
 2. LCN, an Allegion brand: www.allegion.com/us. Basis of Design
 3. or equal to or superior to substitute by Architect and Owner.
 4. Substitutions: See Section 01 60 00 – Product Requirements.
- B. Closers: Complying with BHMA A156.4, Grade 1.
 1. Type: Surface mounted to door with track.
 2. Provide door closer on each exterior door.
 3. At outswinging exterior doors, mount closer on interior side of door.

2.05 OVERHEAD STOPS AND HOLDERS

- A. Manufacturers:
 1. Corbin Russwin, Norton, Rixson, Sargent, or Yale; an Assa Abloy Group company: www.assaabloydss.com.
 2. LCN, an Allegion brand: www.allegion.com/us. Basis of Design
 3. or equal to or superior to substitute by Architect and Owner.

4. Substitutions: See Section 01 60 00 – Product Requirements.
- B. Overhead Stops and Holders (Door Checks): Complying with BHMA A156.8, Grade 1.
 1. Provide stop for every swinging door, unless otherwise indicated.
 2. Concealed overhead.

2.06 THRESHOLDS

- A. Manufacturers:
 1. Pemko; an Assa Abloy Group company: www.assaabloydss.com.
 2. Hager Companies: www.hagerco.com/#sle.
 3. National Guard Products, Inc: www.ngpinc.com.
 4. Zero International, Inc: www.zerointernational.com.
 5. or equal to or superior to substitute by Architect and Owner.
 6. Substitutions: See Section 01 60 00 – Product Requirements.
- B. Thresholds: Complying with BHMA A156.21.
 1. Provide threshold at each exterior door, unless otherwise indicated.
 2. Type: Flat surface.
 3. Material: Aluminum.
 4. Threshold Surface: Fluted horizontal grooves across full width.
 5. Field cut threshold to profile of frame and width of door sill for tight fit.
 6. Provide non-corroding fasteners at exterior locations.
 7. Thermally broken

2.07 WEATHERSTRIPPING AND GASKETING

- A. Manufacturers:
 1. Pemko; an Assa Abloy Group company: www.assaabloydss.com.
 2. Hager Companies: www.hagerco.com/#sle.
 3. National Guard Products, Inc: www.ngpinc.com.
 4. Zero International, Inc: www.zerointernational.com.
 5. or equal to or superior to substitute by Architect and Owner.
 6. Substitutions: See Section 01 60 00 – Product Requirements.
- B. Weatherstripping and Gasketing: Complying with BHMA A156.22.
 1. Head and Jamb Type: Adjustable.
 2. Door Sweep Type: Encased in retainer.
 3. Material: Aluminum, with brush weatherstripping.

2.08 SILENCERS

- A. Silencers: Provide at equal locations on door frame to mute sound of door's impact upon closing.
 1. Single Door: Provide three on strike jamb of frame.
 2. Pair of Doors: Provide two on head of frame, one for each door at latch side.
 3. Material: Rubber, gray color.

2.09 FINISHES

- A. Finishes: Provide door hardware of same finish, unless otherwise indicated.
 1. Primary Finish: 643E/US11; dark oxidized satin bronze, aged bronze, with steel base material (former US equivalent US10B); BHMA A156.18.
 2. Exceptions:
 - a. Where base material metal is specified to be different, provide finish that is an equivalent appearance in accordance with BHMA A156.18.
 - b. Door Closer Covers and Arms: Color as selected by Architect from manufacturer's standard colors unless otherwise indicated.
 - c. Aluminum Surface Trim and Gasket Housings: Anodized to match door panel finish, not other hardware, unless otherwise indicated.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that doors and frames are ready to receive this work; labeled, fire-rated doors and frames are properly installed, and dimensions are as indicated on shop drawings.

3.02 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and applicable codes.
- B. Use templates provided by hardware item manufacturer.
- C. Do not install surface mounted items until application of finishes to substrate are fully completed.
- D. Door Hardware Mounting Heights: Distance from finished floor to center line of hardware item. As indicated in following list; unless noted otherwise in Door Hardware Schedule or on drawings.
 - 1. For Wood Doors: Install in compliance with DHI WDHS.3 recommendations.
 - 2. Mounting heights in compliance with ADA Standards:
 - a. Locksets: 40-5/16 inch.
 - b. Push Plates/Pull Bars: 42 inch.
 - c. Deadlocks (Deadbolts): 48 inch.
 - d. Exit Devices: 40-5/16 inch.
- E. Set exterior door thresholds with full-width bead of elastomeric sealant at each point of contact with floor providing a continuous weather seal; anchor thresholds with stainless steel countersunk screws.
 - 1. Refer to Section 07 92 00 for additional requirements.

3.03 FIELD QUALITY CONTROL

- A. Perform field inspection and testing under provisions of Section 01 40 00 - Quality Requirements.
- B. Provide an Architectural Hardware Consultant (AHC) to inspect installation and certify that hardware and installation has been furnished and installed in accordance with manufacturer's instructions and as specified.

3.04 ADJUSTING

- A. Adjust work under provisions of Section 01 70 00 - Execution and Closeout Requirements.
- B. Adjust hardware for smooth operation.
- C. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.

3.05 CLEANING

- A. Clean finished hardware in accordance with manufacturer's written instructions after final adjustments have been made.
- B. Clean adjacent surfaces soiled by hardware installation.
- C. Replace items that cannot be cleaned to manufacturer's level of finish quality at no additional cost.
- D. See Section 01 74 19 - Construction Waste Management and Disposal, for additional requirements.

3.06 PROTECTION

- A. Do not permit adjacent work to damage hardware or finish.

3.07 HARDWARE SETS

- A. Hardware sets described herein represent the design intent and are to be used for bidding.
- B. Hardware sets will be reviewed with the Hardware Consultant during the shop drawing submittal and any changes or modifications as recommended by the Hardware Consultant will be incorporated into the submittal.

C. Hardware Set 1

1. Hinges by door manufacturer.
2. 1 each leverset/lockset
3. 1 each mortise cylinder.
4. 1 each core.
5. 1 each overhead stop (in door closer).
6. 1 each door closers.
7. 1 each door sweeps.
8. 1 set weatherstripping all sides
9. 1 each threshold.
10. 1 each silencers

END OF SECTION