ADDENDUM #1

ISSUE DATE: MARCH 7, 2024

RE: UW-Superior NERR Building Addition

UWSA #M-22-001 | UW-Superior 6540-4565 HGA Commission Number 4200-023-00

BID OPENING: 2:00 P.M., THURSDAY, MARCH 21, 2024

FROM: Hammel, Green and Abrahamson, Inc.

333 East Erie Street Milwaukee, WI 53202

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Contract Documents dated January 9, 2024, as noted below. Acknowledge receipt of this Addendum by inserting the number and issue date of this addendum in the blank space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of sixteen (16) pages; this page, three (3) drawings, and two (2) specification sections attached.

CHANGES TO DRAWINGS

- 1. A101 Demolition Plan Level 01
 - a. Note Added
- 2. A202 Overall Floor Plan Roof
 - a. Note Added
- 3. A462 Exterior Details
 - a. Detail 10 Added

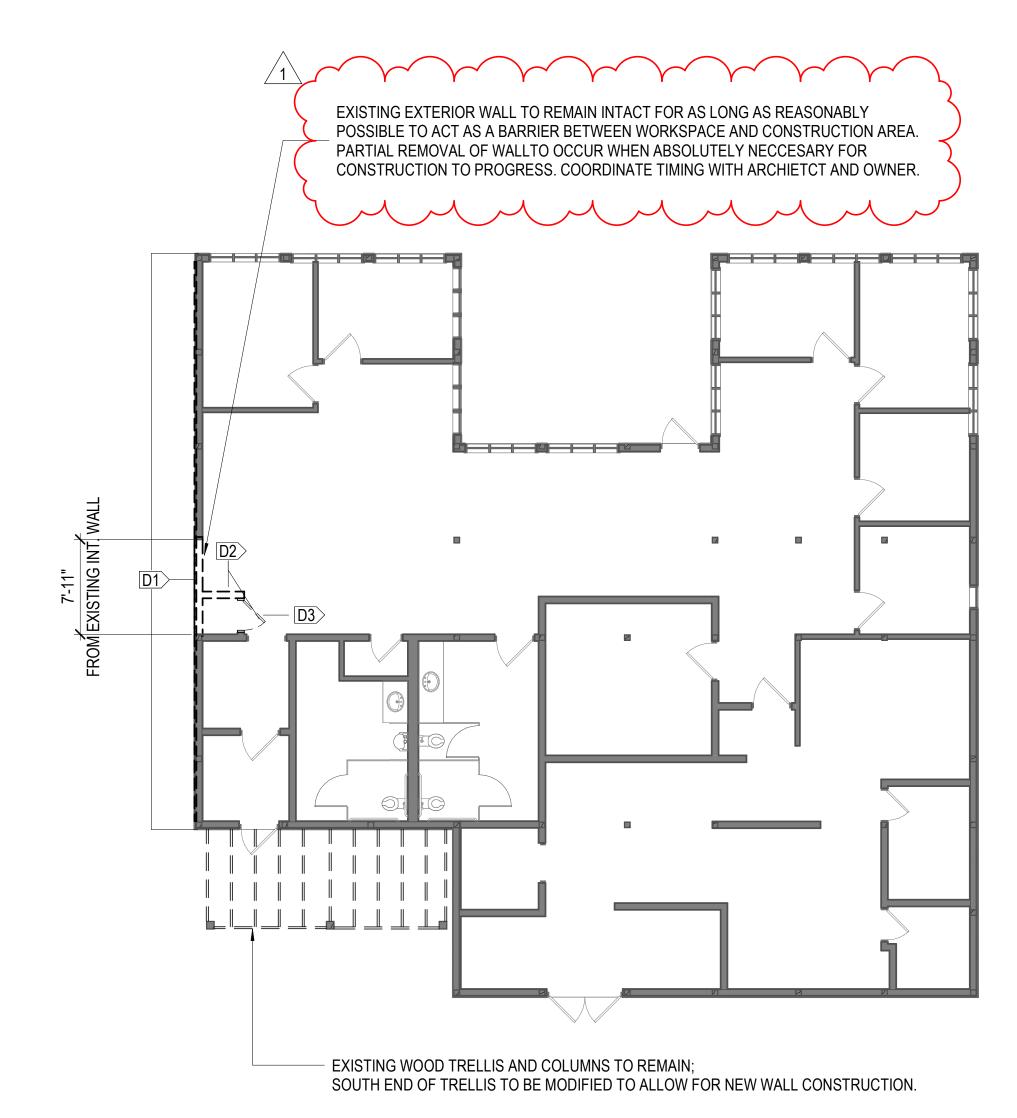
CHANGES TO SPECIFICATIONS

- 1. Section 07 21 00 Thermal Insulation
 - a. See attached spec section for revisions.
- 2. Section 08 71 00 Door Hardware
 - a. See attached spec section for revisions.

FND OF ADDFNDUM #1

Hammel, Green and Abrahamson, Inc. Architects and Engineers 333 East Erie Street Milwaukee, WI 53202

For the Board of Regents of the University of Wisconsin On Behalf of the University of Wisconsin – Madison 1860 Van Hise Hall, 1220 Linden Drive Madison, Wisconsin 53703



GENERAL NOTES - DEMOLITION PLAN

- A. COORDINATE EXTENT OF DEMOLITION WITH REQUIREMENTS FOR NEW WORK. B. REMOVE EXISTING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, FLOOR FINISHES, WALLS, CEILINGS, WALL BASE, AND OTHER EXISTING CONSTRUCTION AS INDICATED OR REQUIRED FOR
- NEW WORK, UNLESS NOTED OTHERWISE. C. REMOVE WALLS INCLUDING WALL MATERIALS INCLUDING INTEGRAL BASES, DOORS, DOOR
- FRAMES AND ASSOCIATED HARDWARE AND THRESHOLDS, UNLESS OTHERWISE INDICATED. D. REMOVE PARTITIONS COMPLETELY TO UNDERSIDE OF STRUCTURAL COMPONENTS ABOVE AND TO TOP OF FLOOR STRUCTURAL COMPONENTS AT BASE. DO NOT LEAVE SECTIONS OR MATERIALS OF WALL ASSEMBLIES IN PLACE.
- E. AT SIDES OF WALLS, THAT ABUT WALLS TO REMAIN, CUT BACK AT LEAST 1 INCH (25 MM) BEYOND FACE OF FINISH OF WALL TO REMAIN TO FACILITATE SUBSEQUENT PATCHING AND **NEW CONSTRUCTION.**
- F. COMPLETELY REMOVE FINISHES, SUBBASE MATERIALS AND STRUCTURAL FRAMING MATERIALS
- TO LINES INDICATED OR REQUIRED FOR NEW WORK. G. EXISTING ITEMS TO BE SALVAGED FOR REUSE IN NEW WORK:
 - A. SALVAGE EXISTING FURNANCE AND A/C CONDENSER IN THE EXISTING CLOSET,
 - WHICH IS SCHEDULED TO BE DEMOLISHED. TIMING OF THIS WORK TO BE SCHEDULED WITH OWNER AND ARCHITECT. HEAT MUST BE AVAILABLE IN THE EXISTING BUILDING AT ALL TIMES IF OUTSIDE TEMPERATURE IS BELOW 65
- H. EXISTING UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS, ALONG THE EXISTING EXTERIOR WALL CONNECTING OLD AND NEW, TO BE RELOCATED. SEE MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- I. RELOCATE EXISTING WORK SERVING OCCUPIED PORTIONS OF THE BUILDING AS REQUIRED TO MAINTAIN SERVICE TO OCCUPIED AREAS AND TO ACCOMMODATE NEW WORK.
- J. REMOVE AND CAP PORTIONS OF EXISTING UTILITIES INDICATED TO BE DEMOLISHED, AS REQUIRED, TO ACCOMMODATE NEW WORK, INCLUDING SURFACE-MOUNTED ELECTRICAL CONDUIT. DEVICES AND LIGHT FIXTURES. RADIATORS. RADIATOR COVERS. PLUMBING FIXTURES AND ASSOCIATED PIPING.
- K. REMOVE CEILINGS INDICATED TO BE DEMOLISHED INCLUDING INTEGRAL HANGERS, SUPPORTS, ANCHORS AND MATERIALS OR ASSEMBLIES ATTACHED TO CEILING CONSTRUCTION. L. REMOVE SUSPENDED CEILINGS TO UNDERSIDE OF STRUCTURE OR ORIGINAL PLASTER OR GYPSUM BOARD CEILING SURFACES.
- M. MAINTAIN EGRESS FROM EXISTING OCCUPIED SPACES AND SURROUNDING BUILDING AREAS AS INDICATED AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. MAINTAIN EGRESS FROM EXISTING OCCUPIED SPACES AND SURROUNDING BUILDING AREAS AS INDICATED AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- N. PROVIDE AND MAINTAIN FIRE EXTINGUISHERS IN AREA OF WORK, IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- O. COORDINATE UTILITY INTERRUPTIONS WITH OWNER. PROVIDE AT LEAST 48 HOURS WRITTEN NOTICE TO OWNER BEFORE UTILITY INTERRUPTIONS. OBTAIN OWNER'S WRITTEN APPROVAL OF INTERRUPTIONS BEFORE PROCEEDING.
- P. COORDINATE OPERATIONS THAT MAY RESULT IN HIGH LEVELS OF NOISE AND VIBRATION, ODORS, OR OTHER DISRUPTIONS TO OCCUPANCY WITH OWNER. OBTAIN OWNER'S WRITTEN PERMISSION BEFORE PROCEEDING.
- Q. PROVIDE TEMPORARY BARRIERS AND ENCLOSURES AS REQUIRED TO PROTECT MATERIALS AND PEOPLE. PREVENT DUST, FUMES, AND ODORS FROM ENTERING OCCUPIED AREAS. MAINTAIN AND RELOCATE TEMPORARY BARRIERS AND ENCLOSURES AS REQUIRED BY THE PROGRESS OF THE WORK. REMOVE TEMPORARY BARRIERS AND ENCLOSURES AT COMPLETION OF WORK.
- R. PRIOR TO STARTING DEMOLITION, VERIFY EXISTING CONDITIONS AND DIMENSIONS. COORDINATE EXTENT OF DEMOLITION WORK AND EXISTING CONSTRUCTION TO REMAIN WITH NEW WORK. NOTIFY ARCHITECT OF CONFLICTS OR DISCREPANCIES.
- S. REFER TO DISCIPLINE-SPECIFIC DRAWINGS FOR RELATED FIRE SUPPRESSION, PLUMBING. HEATING VENTILATION AND AIR CONDITIONING, ELECTRICAL, COMMUNICATIONS, AND ELECTRONIC SAFETY AND SECURITY SYSTEM DEMOLITION WORK.

DEMOLITION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

	(E) CONSTRUCTION TO REMAIN	
0	ZERO HOUR	
1	(E) ONE HOUR RATED	
2	(E)TWO HOUR RATED	
3	THREE HOUR RATED	*** *** *** ***
4	FOUR HOUR RATED	
	(E) CONSTRUCTION TO BE REMOVED	=======
	TEMPORARY BARRIER	

DOOR TO BE DEMOLISHED	

333 East Erie Street Milwaukee, Wisconsin 53202 Telephone 414.278.8200

> STRUCTURAL ENGINEER MECHANICAL/ELECTRICAL/ PLUMBING ENGINEER

> > CIVIL ENGINEER







UNIVERSITY OF WISCONSIN -**SUPERIOR**

LAKE SUPERIOR NERR ADMINSTRATIVE **ADDITION**

> **UWSA PROJECT NUMBER:** M-22-001 UW-SUPERIOR NUMBER: 6540-4565

> > 14 MARINA DRIVE SUPERIOR, WI 54880

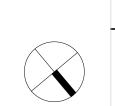
NO DESCRIPTION DATE ADD 1

ISSUANCE HISTORY - THIS SHEET HGA NO: 4200-023-00

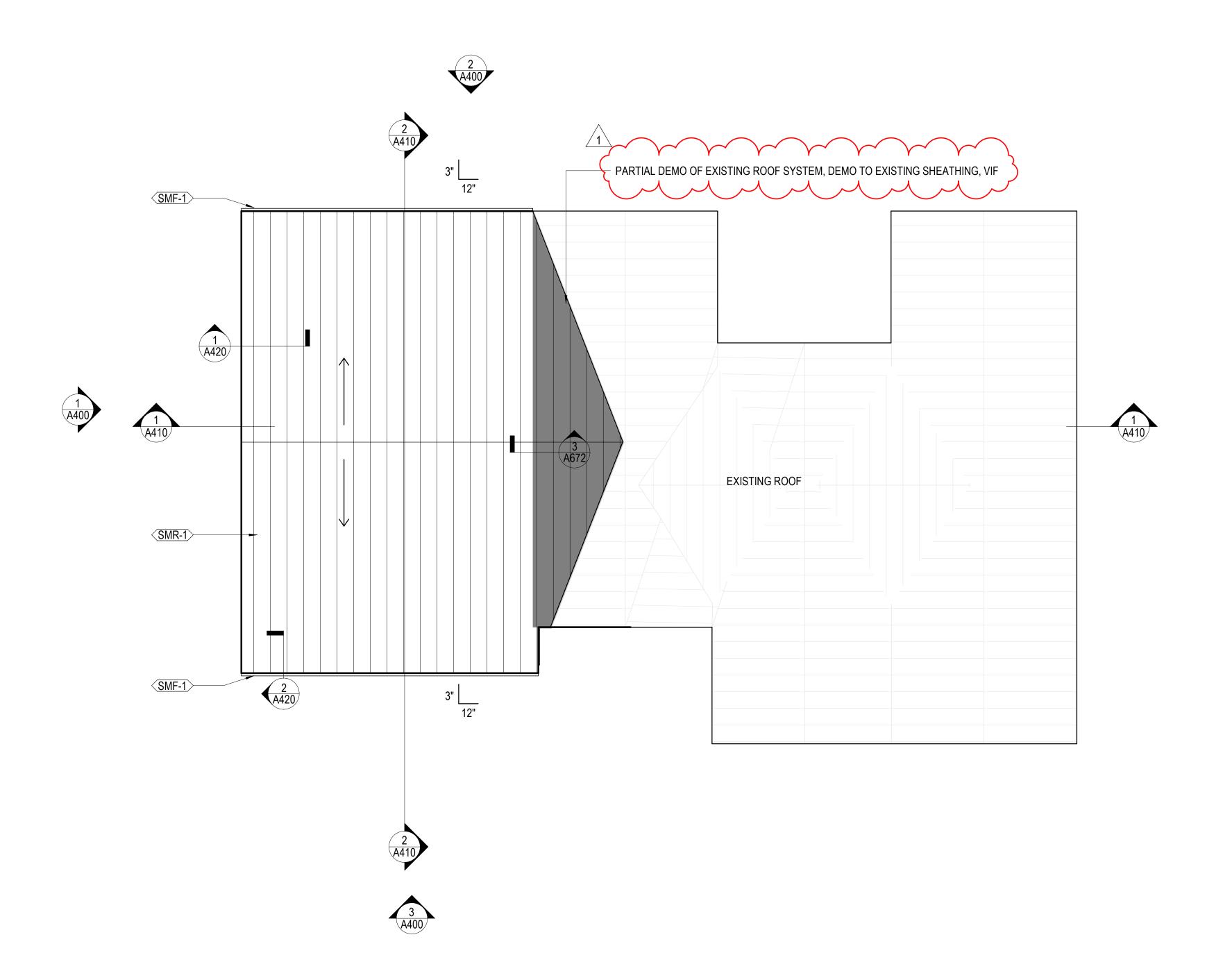
> **DEMOLITION** PLAN - LEVEL

DATE: JANUARY 9, 2024

BID DOCUMENTS



- D1 DEMO WALL FROM THE EXTERIOR TO THE STUD
- D2 DEMO EXISTING CLOSET, SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR
 - ADDITIONAL INFORMATION/TIMING.
- D3 DEMO EXISTING DOOR AND FRAME



HGA

333 East Erie Street Milwaukee, Wisconsin 53202 Telephone 414.278.8200

STRUCTURAL ENGINEER

MECHANICAL/ELECTRICAL/
PLUMBING ENGINEER

CIVIL ENGINEER







UNIVERSITY OF WISCONSIN - SUPERIOR

LAKE SUPERIOR NERR ADMINSTRATIVE ADDITION

> UWSA PROJECT NUMBER: M-22-001 UW-SUPERIOR NUMBER: 6540-4565

14 MARINA DRIVE SUPERIOR, WI 54880

NO DESCRIPTION DATE
1 ADD 1 3/7/2024

1 ADD 1 S/112024

HGA NO: 4200-023-00

OVERALL FLOOR PLAN -

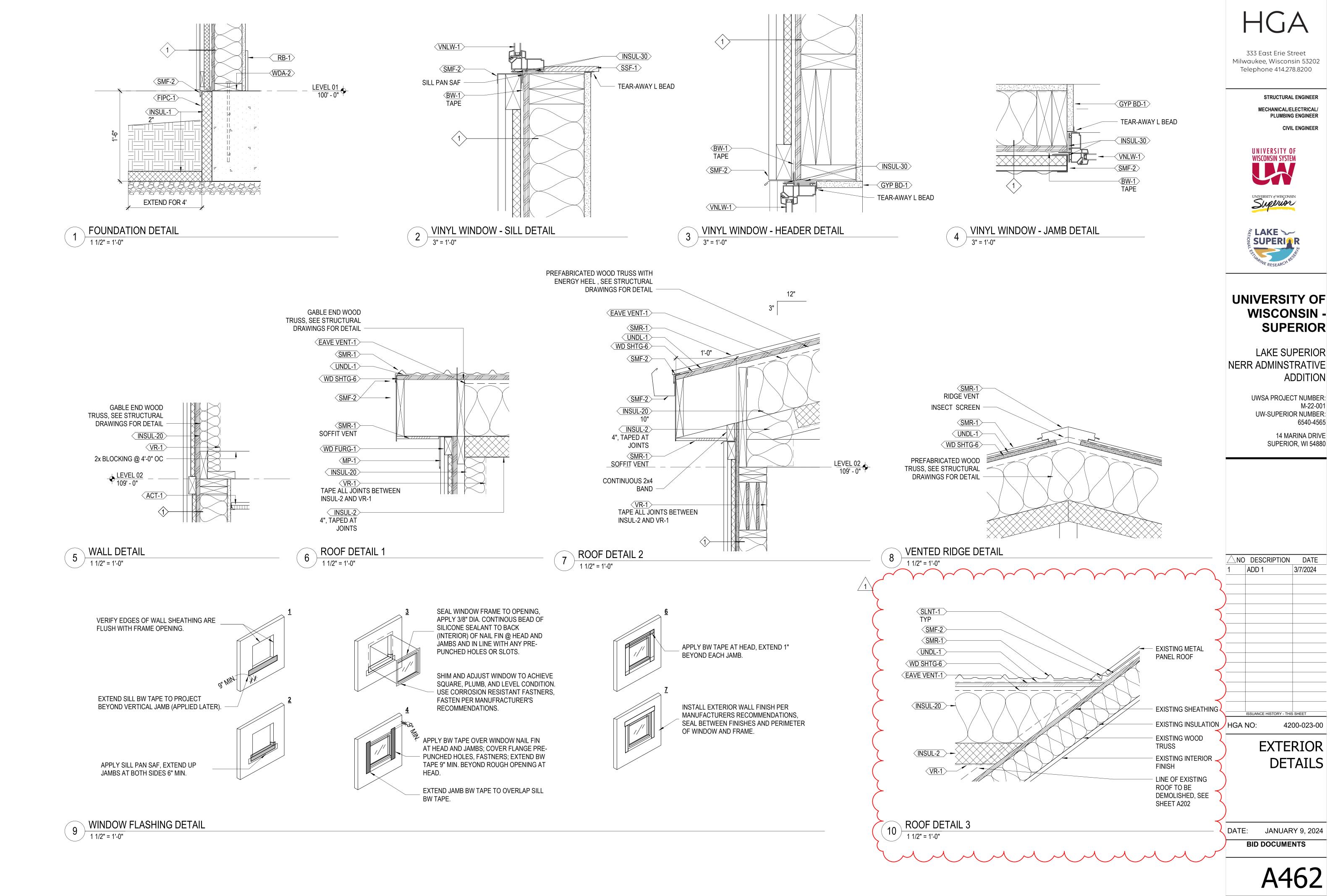
ROOF

DATE: JANUARY 9, 2024

BID DOCUMENTS







©OPYRIGHT HAMMEL, GREEN AND ABRAHAMSON, INC.

1 2			
3	PART 1	- GENERAL	
4	1.1	SUMMARY	
5 6 7 8	A.	Section Includes: 1. Extruded polystyrene board insulation. 2. Fiberglass batt insulation. 3. Spray polyurethane foam insulation.	
9	1.2	ACTION SUBMITTALS	
10	A.	Product Data: For each type of product.	
11	1.3	DELIVERY, STORAGE, AND HANDLING	
12 13 14	A.	Protect insulation materials from physical damage and from deterioration by moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.	
15 16 17 18 19 20	В.	 Protect plastic insulation as follows: Do not expose to sunlight, except to extent necessary for period of installation and concealment. Protect against ignition at all times. Do not deliver plastic insulating materials to Project site before installation time. Complete installation and concealment of plastic materials as rapidly as possible in each area of construction. 	
21	PART 2	- PRODUCTS	
22	2.1	EXTRUDED-POLYSTYRENE BOARD INSULATION	
23 24 25	A.	Surface-Burning Characteristics, per ASTM E 84: 1. Maximum Flame-Spread: 75 2. Maximum Smoke-Developed: 450	
26	В.	Thickness: As indicated on Drawings.	
27 28 29 30 31 32	C.	 (INSUL-1) (INSUL-2) Rigid Insulation: ASTM C578; Type IV, 25 psi compressive strength, extruded cellular polystyrene type; for above grade application: 1. Products and Manufacturers: a. Cavitymate Ultra by Dupont. b. Foamular 250 by Owens Corning. c. Certifoam by DiversiFoam Products. 	

1 2.2 FIBERGLASS BATT INSULATION 2 A. Manufacturers: 3 CertainTeed Corporation. 1. 4 Guardian Building Products, Inc. 2. 5 Johns Manville. 3. 6 Knauf Insulation. 4. 7 5. Owens Corning. 8 B. (INSUL-20) Unfaced, Glass-Fiber Blanket Insulation: ASTM C 665, Type I; with maximum flame-spread 9 and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84; passing ASTM E 136 for 10 combustion characteristics. 11 1. Nominal density of 1.0 lb/cu. ft., thermal resistivity of 3.7 deg F x h x sq. ft./Btu x in. at 75 deg F 12 2. Thickness: Same as stud depth or as indicated. Width of Batts: Center to center dimension of metal studs and full face to face at other voids. 13 3. 14 2.3 SPRAY POLYURETHANE FOAM INSULATION 15 A. Manufacturers: BASF Corporation. 16 1. 17 2. Dupont. 18 3. Henry Company. SWD Urethane. 19 4. 20 Holcim Building Envelope. 21 (INSUL-30) Closed-Cell Polyurethane Foam Insulation: ASTM C 1029, Type II. B. 22 Basis of Design: Quik-Shield 118 by SWD Urethanes. 23 2. Minimum density of 1.5 lb/cu. ft., 24 thermal resistivity of 6.2 deg F x h x sq. ft./Btu x in. at 75 deg F. 25 3. Fire Characteristics per ASTM E84: 26 4. Maximum flame-spread of 75 27 a. 28 b. Maximum smoke-developed indices of 450. 29 5. Doors and Windows: Where shown for filling the gap at the perimeter of doors and windows, 30 provide manufacturer's specially formulated product with low pressure-build. 31 Basis of Design: "Great Stuff Pro Window & Door" by DuPont. 32 2.4 **ACCESSORIES** 33 A. (EAVE VENT-1) Eave Ventilation Troughs: Preformed, rigid fiberboard or plastic sheets designed and 34 35 vented eaves. B. (FIPC-1) Foundation Wall Insulation Protective Covering: Fully-adhered, cold-applied, mold and mildew

- sized to fit between roof framing members and to provide ventilation between insulated attic spaces and
- 36 37 resistant, UV resistant, impact and abrasion-resistant; paintable.
 - Application. Use as exterior above-grade waterproof, protective finishing membrane to cover exposed to view rigid extruded polystyrene insulation at transition between below-grade and abovegrade exterior facade.
 - Thickness: 60-70 mils. 2..
 - Primer and adhesive: As recommended by covering manufacturer. 3.
- 43 4. Color: Gray.
- 44 Basis of Design: Equal to Groundbreaker by Nudo. 5.

38

39

40

41

PART 3 - EXECUTION

1

2 3.1 INSTALLATION

- 3 A. Comply with insulation manufacturer's written instructions applicable to products and applications.
- B. Clean substrates of substances that are harmful to insulation, including removing projections capable of puncturing insulation or vapor retarders, or that interfere with insulation attachment.
- 6 C. Provide sizes to fit applications and selected from manufacturer's standard thicknesses, widths, and lengths.
 7 Apply single layer of insulation units unless multiple layers are otherwise shown or required to make up total thickness or to achieve R-value.
- 9 D. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed to ice, rain, or snow at any time.
- E. Cut and trim insulation neatly to fit spaces. Butt edges and ends tight. Fit insulation tight against mechanical, electrical and other items which protrude through plane of insulation.
- F. Extend insulation to envelop entire area to be insulated. Fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.

15 3.2 INSTALLATION QUALITY

- A. Install rigid insulation to maintain continuous and complete thermal protection for building spaces and elements.
- B. Ensure surfaces which are to receive rigid insulation are clean, free of deleterious matter and are sufficiently level to allow proper installation of insulation.
- C. Cut and trim insulation neatly to fit spaces. Butt edges and ends tight. Fit insulation tight against mechanical, electrical and other items which protrude through plane of insulation.
- D. Use insulation free of broken or chipped edges.

23 3.3 INSTALLATION OF FOUNDATION WALL INSULATION (INSUL-1)

- A. Foundation Wall Insulation Installation: Secure insulation on perimeter foundation wall with adhesive using spot or bead method in accordance with insulation manufacturer's recommendations. Place insulation horizontally.
- 27 1. Coordinate installation with waterproofing systems where applicable.
- 28 2. Stagger vertical joints of insulation, except free ends over line of control joints.
- 29 3. Lay out insulation so that ends overlap minimum 4 inches and maximum 6 inches over line of expansion contraction joints. Leave overlapping ends of insulation unbonded over line of these joints, allowing insulation to move freely with foundation walls.

3.4 INSTALLATION OF BATT INSULATION FOR FRAMED CONSTRUCTION

- 2 Apply insulation units to substrates by method indicated, complying with manufacturer's written A. 3 instructions. If no specific method is indicated, bond units to substrate with adhesive or use mechanical 4 anchorage to provide permanent placement and support of units.
- 5 B. Glass-Fiber Blanket Insulation: Install in cavities formed by framing members according to the following 6 requirements: 7
 - Use insulation widths and lengths that fill the cavities formed by framing members. If more than one length is required to fill the cavities, provide lengths that will produce a snug fit between ends.
 - 2. Place insulation in cavities formed by framing members to produce a friction fit between edges of insulation and adjoining framing members.
- 11 C. For wood-framed construction, install blankets according to ASTM C 1320.

12 3.5 SPRAY-APPLIED INSULATION INSTALLATION (INSUL-30)

- 13 A. Spray-Applied Insulation (INSUL-30): Apply spray-applied insulation according to manufacturer's written 14 instructions. Do not apply insulation until installation of pipes, ducts, conduits, wiring, and electrical outlets 15 in walls is completed and windows, electrical boxes, and other items not indicated to receive insulation are 16 masked. After insulation is applied, make flush with face of studs by using method recommended by insulation manufacturer. 17
- 18 3.6 INSTALLED WORK

1

8

9

- 19 A. Protection: Protect installed insulation and vapor retarders from damage due to harmful weather exposures, 20 physical abuse, and other causes. Provide temporary coverings or enclosures where insulation is subject to 21 abuse and cannot be concealed and protected by permanent construction immediately after installation.
- **END OF SECTION** 22

1 2		SECTION 087100 DOOR HARDWARE
3	PART 1	- GENERAL
4	1.1	SUMMARY
5 6 7	A.	Section includes: 1. Commercial door hardware for the following: a. Swinging doors.
8 9 10	B.	Related Sections: 1. Section 08 11 13 – Hollow Metal Doors and Frames. 2. Section 08 14 00 – Wood Doors.
11	1.2	GENERAL REQUIREMENTS
12 13	A.	Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
14	1.3	COORDINATION
15 16 17	A.	Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
18 19	В.	Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
20 21 22	C.	Existing Conditions: Where hardware components are reused or where modifications to existing hardware is required, field verify existing conditions and coordinate installation resulting in proper door operation and ensure fire-rating recertification if required.
23 24 25 26	D.	Coordination Meeting: When requested by Architect and/or Owner, the Contractor will schedule a meeting prior to the installation of electrified hardware to review and coordinate functions and connections. Participants to include representatives and-suppliers of all applicable electrified hardware components. Advise Architect/Owner of scheduled date, time, place, and attendees.
27	1.4	PREINSTALLATION MEETINGS
28 29 30	A.	Pre-Installation Conference: Prior to the installation of hardware, manufacturers' representatives must arrange and conduct a jobsite meeting to instruct Installers on the proper installation. A letter of compliance must be sent to the Architect and Owner.
31	В.	Refer to Keying article for keying conference requirements.

1.5 ACTION SUBMITTALS

1

8

9

10

11

12 13

14

15

16

17

18

19

20

21

25

26

35

36 37

38

39

40

41

42

- A. Hardware Schedule: Submit hardware schedule per Section 01 33 00 in vertical format as illustrated by the Sequence of Format for the Hardware Schedule as published by the Door and Hardware Institute. Schedules, which do not comply, will be returned for correction before review. Hardware schedule shall clearly indicate architect's hardware group and manufacturer of each item proposed. The schedule shall be reviewed prior to submission by a certified Architectural Hardware Consultant, who shall affix his or her seal attesting to the completeness and correctness of the schedule.
 - 1. Provide illustrations from manufacturers' catalogs and data in brochure form.
 - 2. Check specified hardware for suitability and adaptability to details and surrounding conditions. Indicate unsuitable or incompatible items and proposed substitutions in the hardware schedule submittal
 - 3. When requested, provide listing of manufacturers' template numbers for each item of hardware in the hardware schedule submittal.
 - 4. Furnish associated Contractors and Subcontractors with copies of final approved hardware schedule. Submit necessary templates and schedules as soon as possible to hollow metal, wood, aluminum, and other door & frame fabricators in accordance with schedule they require for fabrication.
 - 5. Samples; if requested by Architect, provide for each exposed product in each finish specified, in manufacturer's standard size
 - a. Tag Samples with full product description to coordinate Samples with door hardware schedule.
 - 6. List of related door devices specified in other Sections for each door and frame.
- B. Closer Mounting: Indicate mounting description for each closer included in the submittal's hardware groups.
- 24 C. Existing Hardware Conditions: Refer to Part 1 Coordination.
 - 1. Advise Hardware Supplier and Architect of any existing conditions which would prevent utilization of specified hardware.
- D. Provide keying schedule, prepared by or under the supervision of Installer's Architectural Hardware
 Consultant, detailing Owner's final keying instructions for locks. Include schematic keying diagram and
 index each key set to unique door designations that are coordinated with the Contract Documents. Keying
 schedule to be coordinated with and approved by Owner.
- E. Installation Instructions: Provide manufacturer's written installation and adjustment instructions for finish hardware. Send installation instructions to site with hardware.

33 1.6 INFORMATIONAL SUBMITTALS

- A. Contract Closeout Submittals: Comply with Section 01 78 00 including specific requirements indicated.
 - 1. Operating and maintenance manuals containing the following:
 - a. Complete information in care, maintenance, and adjustment, and data on repair and replacement parts, and information on preservation of finishes.
 - b. Catalog pages for each product.
 - c. Name, address, and phone number of local representative for each manufacturer.
 - d. Parts list for each product.
 - 2. Copy of final approved hardware schedule, edited to reflect As installed.
 - 3. Copy of final keying schedule.
- 43 4. One complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

1.7 QUALITY ASSURANCE

1

- A. Manufacturer: Obtain each type of hardware, i.e. latch and locksets, hinges, closers from single manufacturer, although several may be indicated as offering products complying with requirements.
- B. Supplier: Recognized architectural finish hardware supplier, with warehousing facilities, who has been providing hardware for period of not less than 3 years. The supplier shall be, or employ, a certified Architectural Hardware Consultant AHC, who is registered in the continuing education program as administered by the Door and Hardware Institute. The hardware schedule shall be prepared and signed by a certified AHC.
- 9 C. Installer: Firm with three years experience in installation of similar hardware to that required for this project, including specific requirements indicated.
- D. Pre-Installation Conference: Prior to the installation of hardware, manufacturers' representatives for locksets, closers, and exit devices shall arrange and conduct a jobsite meeting to instruct the installing contractor's personnel on the proper installation of their respective products. A letter of compliance, indicating when this meeting is held and who is in attendance, shall be sent to the Architect and Owner. Refer to Keying article for keying conference requirements.

16 1.8 DELIVERY, STORAGE AND HANDLING

- A. Deliver hardware to jobsite in manufacturer's original packaging, marked to correspond with the approved hardware schedule. Do not deliver hardware until suitable locked storage space is available. Check hardware against reviewed hardware schedule. Store hardware to protect against loss, theft, or damage.
- B. Deliver hardware required to be installed during fabrication of hollow metal, aluminum, wood, or stainlesssteel doors prepaid to the respective manufacturer.

22 1.9 WARRANTY

- A. Guarantee workmanship and material provided against defective manufacture. Repair or replace defective workmanship and material appearing within period of one year after Substantial Completion.
- B. Provide a minimum ten-year factory warranty on door closer body against defects in material and workmanship from date of occupancy of Project.
- 27 C. Replace shortages and incorrect items with correct material at no additional cost to Owner.
- D. At completion of project, qualified factory representative shall inspect closer installations. After this inspection, letter shall be sent to Architect reporting on conditions, verifying that closers have been properly installed and adjusted.

31 1.10 ATTIC STOCK

A. Coordinate with Owner for products and quantities desired for attic stock.

1 PART 2 - PRODUCTS

2 2.1 GENERAL

- A. Confirm acceptable manufacturers and models of all hardware products with Owner. Specified products are listed only to establish function and a level of quality.
- 5 B. Specified manufacturers and models are based on the best information available at the time of this printing to establish function and level of quality but are subject to change as additional information becomes available. Changes will be advised in future documentation.
- 8 C. Acceptable manufacturers and models of particular products will be determined by hardware distributor/supplier who has been contracted and directed by the Owner. Specified products are listed only to establish function and a level of quality.

11 2.2 BUTTS AND HINGES

- 12 A. Acceptable Manufacturers:
 - 1. Bommer
- 14 2. Hager listed below for design intent only
- 15 3. Ives

13

20

30

- 16 4. McKinney
- 17 5. PBB
- 18 6. Stanley
- 19 B. Types per Application:
 - 1. Interior doors with closers: BB1279/BB1168
- 2. Interior doors over 36 inches wide: BB1168
- 22 3. Interior doors 36 inches or less without closer: BB1279
- 23 4. Provide NRP, non-removable pins, at out-swinging doors that are lockable or locked and at other doors when specifically indicated.
- 25 C. Size:
- 26 1. 1-3/4 inch Doors 4-1/2 inch by 4-1/2 inch
- D. Quantity:
- 28 1. 2 hinges per leaf for openings through 60 inches in height.
- 29 2. 1 additional hinge per leaf for each additional 30 inches in height or fraction thereof.
 - 3. 1 additional hinge per leaf for openings 40 inches wide and wider.
- a. For mineral core doors Refer to Part 2 Continuous Stainless-Steel Hinges
- E. Drill 5/32 inch hole and use No. 12, 1-1/4 inch steel threaded to the head wood screws for hinges on wood doors.

34 2.3 LOCKSETS – HEAVY-DUTY CYLINDRICAL

- 35 A. Acceptable Manufacturer and Series:
- 36 1. Best: 9K-15D
- 37 2. Corbin Russwin: CL33 x NZD
- 38 3. SARGENT: 10-Line x LL
- 39 4. Schlage: ND-RHO

- 1 5. Yale: 5400LN x AU
- 2 B. Provide heavy-duty cylindrical locks unless indicated otherwise with functions specified in Hardware 3 Groups and with the following provisions:
 - Cylinders: Provide cylinders, as required, to accomplish specified lock function. Refer to Part 2 1. KEYING.
 - 2. Backsets: 2-3/4 inches.
 - 3. Strikes: Provide wrought boxes and strikes with proper lip length to protect trim but not to project more than 1/8 inch beyond trim, frame or inactive leaf. Where required, provide open back strike and protected to allow practical and secure operation.

10 2.4 **KEYING**

4

5

6

7

8

9

19

20

21

22

23

24

25

26

- 11 Integrate keying of new locks/cylinders with existing key system as directed by Owner. Confirm existing A. 12 key system manufacturer and keyway. Factory key all cylinders with manufacturer retaining permanent keying records. If requested, provide Owner with copy of bitting list via Owner acceptable delivery 13 method.
- 14
- 15 B. Contractor shall provide construction masterkeying and keys for the construction period.
- C. Authorized local distribution/service shall be available for purchase of additional keys & cylinders to allow 16 for system revisions, expansion, and service, as required. 17
- 18 D. Keying Conference: Conduct conference.
 - Conference participants shall include Installer's Architectural Hardware Supplier/Consultant, Architect and Owner's security consultant.
 - 2. Incorporate conference decisions into keying schedule after reviewing door hardware keying system including, but not limited to, the following:
 - Flow of traffic and degree of security required. a.
 - Preliminary key system schematic diagram. b.
 - Requirements for key control system. c.
 - d. Requirements for access control.
 - e. Address for delivery of keys.
- 28 If requested, submit proposed keying schedule to Architect and meet with Owner and Architect to review E. 29 schedule.
- 30 F. Provide construction masterkeying. Permanent cylinders/cores shall be installed/activated upon completion of the project. 31
- 32 G. Provide 6 masterkeys for each masterkey set. Provide 3 change keys for each lock. Stamp keys Do Not 33 Duplicate. When interchangeable core cylinders are specified, provide 2 control keys for core removal.
- All keys shall be delivered to the designated Owner's representative via method determined and agreed 34 H. 35 upon by the Owner at the keying meeting.
- 36 2.5 STOPS AND HOLDERS
- 37 A. Acceptable Manufacturers:
- 38 1. Burns
- 39 2. Hager
- 40 3. Ives listed below for design intent only

- 1 4. Trimco
- 2 B. Wall Bumper: WS406/407CVX; WS406/407CCV
- C. Provide wall bumper for each door leaf except where wall mounted stops are specified in the Hardware Groups, or where opening conditions require the use of an overhead stop. Refer to Part 2 Overhead Stops
 - 1. Provide an overhead stop for doors in which the door face or operating trim on the leading/latch edge does not open against wall or opens against equipment or furniture.
- 7 D. Provide base mounted stops at toilet rooms, unless alternate stop is specified: WS11/WS11X.

8 2.6 FASTENERS

5

6

- A. Including, but not limited to; wood or machine screws, special screws, bolts, special bolts, nuts, expansion shields, anchors, and other accessory items of proper type, material, and finish required for complete operational installation of hardware.
- 12 B. Use phillips head for exposed screws. Do not use aluminum screws to attach hardware.
- 13 C. Provide self-tapping, TEC, screws for attachment of sweeps and stop-applied weatherstripping.
- D. Provide tamper resistant fasteners at exposed hardware, such as Torx screws at behavioral health and places of detention
- 16 2.7 TYPICAL FINISHES AND MATERIALS
- 17 A. Finishes, unless otherwise specified: Satin Chrome Brushed Stainless Steel US26D
 - 1. Butts, Interior Doors and In-swinging Exterior Doors: US26D/BHMA 652 on Steel.
- 19 2. Locks and Latches: US26D/BHMA 626 on Brass or Bronze.
- Miscellaneous Hardware: US26D/BHMA 626 on Brass or Bronze.
- 21 PART 3 EXECUTION
- 22 3.1 EXAMINATION
- A. Examine doors, frames, and related items for conditions that would prevent the proper application of finish hardware. Do not proceed until defects are corrected.
- 25 3.2 INSTALLATION
- A. Install finish hardware in accordance with reviewed hardware schedule and manufacturer's printed instructions. Prefit hardware before finish is applied, remove and reinstall after finish is completed. Install
- hardware so that parts operate smoothly, close tightly and do not rattle.
- B. Installation of hardware shall comply with NFPA 80 and NFPA 101 requirements.
- 30 C. Set units level, plumb and true to line and location. Adjust and reinforce attachment to substrate as necessary for proper installation and operation.

- D. Screws for hinges and lock fronts in wood doors shall have pilot holes pre-drilled to avoid splitting doors.
 Do not over-drill pilot holes or over-torque installation of screws.
- B. Drill and countersink units which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

5 3.3 FIELD QUALITY CONTROL

- A. After installation has been completed, provide services of qualified hardware consultant to check Project to determine proper application of finish hardware according to schedule. Also check operation and adjustment of hardware items.
- 9 B. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

10 3.4 ADJUSTING AND CLEANING

- A. At final completion, hardware shall be left clean and free from disfigurement. Make final adjustment to door closers and other items of hardware. Where hardware is found defective repair or replace or otherwise correct as directed.
- B. Adjust door closers to meet opening force requirements of Uniform Federal Accessibility Standards.
- 15 1. Force Requirements:
- a. Interior hinged doors and gates: 5 pounds maximum.
- C. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy of space or area, return to work during week prior to acceptance or occupancy, and make final check and adjustment of hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors.
- D. Instruct Owner's personnel in proper adjustment and maintenance of door hardware and hardware finishes.
- E. Clean adjacent surfaces soiled by hardware installation.

23 3.5 PROTECTION

A. Provide for proper protection of hardware items until the Owner accepts Project as complete.

25 3.6 HARDWARE GROUPS

- A. Provide all required door hardware for each specified opening to comply with requirements of this section in its entirety. Included are desired/intended functions, acceptable manufacturers and models, systems coordination, etc. for a complete installed opening.
- B. Refer to the openings schedule for hardware group and modifiers assigned to each door opening. Ignore hardware groups and modifiers not assigned on the openings schedule.
- 32 GROUP 10 Single, passage, no closer
- 33 Hinges

31

34 1 each Latchset: Passage Function

1 Function: Latchbolt is retracted by lever on either side. Free egress at all times. 23 1 each Stop, as required by opening conditions 4 GROUP 12.01 – Office/Entrance, no closer 5 6 1 each Lockset: Office/Entrance function - F82-cylindrical 7 Function: Latchbolt is retracted by lever on either side unless outside lever is locked by inside turn button (cyl) or 8 toggle on lock front (mort). Key outside retracts latchbolt. Deadlocking latchbolt. 9 1 each Stop, as required by opening conditions 10 11 GROUP 44 - Pair, Active/inactive storeroom lock with automatic flushbolts, coordinator and 12 closers 13 Hinges 14 1 set Flushbolts, automatic 15 1 each Lockset: Storeroom Function 16 Function: Latchbolt is retracted by lever inside only. Outside lever is always Locked. Key outside retracts latchbolt. Deadlocking latchbolt. Free egress at all times. 17 18 1 each Coordinator 19 2 each Closers 20 2 each Kickplates 21 2 each Stops, as required by opening conditions Surface Astragal, provided by Door Manufacturer/Supplier, matching wood at wood doors, primed flat steel at 22 23 hollow metal doors, if required for smoke resistance or by fire rating. 24 GROUP 14 Single, door Storeroom lock, no closer

Function: Latchbolt is retracted by inside lever only. Outside lever is always locked. Key outside retracts latchbolt.

END OF SECTION

1 each Lockset: Storeroom function

Deadlocking latchbolt. Free egress at all times.

1 each Stop, as required by opening conditions

31

30

25

26

27 28

29

Hinges