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UNIVERSITY OF SOUTH CAROLINA CAPSTONE CAMPUS ROOM UPGRADES

PROJECT NO: 11103

ADDENDUM 01
March 14, 2012

GENERAL:

SPECIFICATIONS:

1. **Section 012100 Allowances; P 1: OMIT 1.5 Door Hardware Allowance (\$5,000)**
Finish Hardware Specification Section 087101 is attached, pages 1-8
2. **Section 012100 Allowances; P 1 Paragraph 1.7: OMIT Drapery Allowance in its entirety;** Draperies & Accessories are specified in Section 12 22 00 and 12 22 16 respectively.
3. **Section 015000 Temporary Facilities;**
 - a. **P1; paragraph 1,2 Use charges; OMIT** paragraph A, B, C, D & E. The owner shall allow use of electricity and water on site for contractor 's use related to construction activities. The contractor shall use power and water sparingly.
 - b. **P 4 Paragraph 3.2.J: OMIT** requirement for computer desk in field office for Architect and Owner's use.
4. **Section 064023, Interior Architectural Woodwork; p. 2; paragraph 2.1A, ADD:**
 4. Specialty Woodworks Inc.
1736 Two Notch Rd.
Lexington, SC 29073
(803) 957-8872
(803) 957-6757 Fax



5. **Section 081416, Flush Wood Doors, P3:**
 - a. **paragraph 2.3.A.2** Species shall be Birch in lieu of Cherry
 - b. **paragraph 2.6 OMIT** reference to factory finish. Doors shall be supplied unfinished. The architectural millwork supplier shall provide and install Cherry wood veneer to each face of the wood doors prior to installation of the doors. General Contractor shall coordinate work between wood door supplier and millwork provider.

6. **Section 087100, Door Hardware: OMIT P 1 – P4 and REPLACE with attached Finish Hardware Specification Section 087101 pages 1-8.**

7. **Section 095123, Acoustical Tile Ceiling:**
 - a. **paragraph 2.1.A; ADD:**
 2. USG Ceilings
 - b. **paragraph 2.2.0.A.6; CHANGE** Noise reduction coefficient (NRC) to a minimum of .75 in lieu of .60
 - c. **paragraph 2.2.0.A.7; CHANGE** ceiling attenuation class (CAC to 35 in lieu of 40)
 - d. **paragraph 2.3.0.A.3; ADD:** or Donn Centricitee DXT 26 HD grid by USG
 - e. **paragraph 2.3.0.D; OMIT** sentences D.2, D.3, and D.4 and D.5 and **ADD** Provide Armstrong Shadow Molding #7823 or Donn MS 274 Shadow Molding
 - f. **paragraph 2.4.1.A.13; ADD:** or USG Mars # 86185
 - g. **paragraph 2.5.1.D; OMIT:** D.1, D.2, D.3, D.4 and D.5; **ADD:** Provide and install Armstrong #7823 or Donn MS 274 Molding

8. **Section 102226, Operable Panel Partitions;** P4; paragraph 2.4.A.1 OMIT reference to Wood Veneer. The panel finish shall be selected from the Manufacturer's Standard Vinyl Face Finishes

9. **Section 102226, Operable Panel Partitions;** P4; paragraph 2.3.B Change to read: Partitions shall have Horizontal Bottom and Top Seals: PVC-faced, mechanical, retractable, constant-force-contact seal exerting uniform constant pressure on floor when extended, ensuring horizontal and vertical sealing and resisting panel movement.

DRAWINGS:

1. **SHEET I-6:** Casework sections 4 & 5; **OMIT** note referencing tack board material. Tack board material not required.

END OF ADDENDUM

SECTION 08 71 01

FINISH HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Hardware for wood, hollow steel, and aluminum doors.
- B. Hardware for fire-rated doors.
- C. Hardware for acoustical doors.
- D. Electrically operated and controlled hardware.
- E. Lock cylinders for doors for which hardware is specified in other sections.
- F. Thresholds.
- G. Weatherstripping, seals and door gaskets.

1.02 COORDINATION

- A. The General Contractor be responsible for hanging all doors in their frames and resolving any deficiencies in the door fit, prior to the installation of the remaining door hardware by the hardware supplier. Door hinges shall be provided to the General Contractor as scheduled for installation required in hanging the doors by the General Contractor.
- B. Coordinate hardware for related trades such as metal doors, frames, millwork, etc.
- C. Coordinate approved shop drawings from any affected trades after receipt of final approved finish hardware schedule.
- D. Templates: The hardware supplier shall furnish, promptly, necessary templates and an approved hardware schedule to other trades requiring their use to enable the door manufacturers to make proper provision in their work to receive the architectural finish hardware. Other trades shall furnish to the hardware supplier such drawings and information that might be required in order that proper items of hardware be supplied. Provide only template produced units.

1.03 RELATED REQUIREMENTS

- A. Section 08 11 13 - Hollow Metal Doors and Frames.
- B. Section 08 14 16 - Flush Wood Doors.
- C. Section 08 33 13 - Coiling Counter Doors: Lockable coiling counter doors. Hardware by door manufacturer, except cylinders.
- D. Section 08 33 23 - Overhead Coiling Doors: Lockable coiling doors. Hardware by door manufacturer, except cylinders.
- E. Section 08 34 73 - Acoustical Doors and Frames: Sound sealing system shall be by door manufacturer. Balance of hardware shall be installed as a part of this section.
- F. Section 08 44 13 - Glazed Aluminum Curtain Walls: Hardware for integral doors and frames except lock cylinders; installation of cylinders.

1.04 PRICE AND PAYMENT PROCEDURES

- A. Hardware Schedule: See attached
- B. Type of Hardware: The following types of finish hardware shall be used as basis for figuring the cost of installation.

1. Heavy duty mortise locks on all doors with lever handles.
2. Panic exit devices where required.
3. Surface mounted closers for all doors.
4. All doors have 1-1/2 pairs of butts (provided to General Contractor for installation).
5. Door stops or bumpers to be provided to prevent doors or door hardware from striking wall or other hardware.
6. Thresholds and weather stripping, except where indicated or specified otherwise, for all exterior doors.
7. Silencers
8. Door Push/Pulls.
9. All doors are specified to be pre-machined for hardware.
10. Cabinet hardware is specified under Finish Carpentry and Casework - Section 06-4100.
11. Miscellaneous door control devices.
12. Acoustical sound sealing system for acoustical doors. Provide balance of hardware not specified to be provided by the door manufacturer.
13. Hardware for toilet partitions is specified in Section 10 21 16.
14. Fasteners shall be included.
15. Fire-rated wood doors shall have meeting edge as specified in Section 08 14 16 - Wood Doors. Aluminum and hollow metal doors shall have removable astragal as specified in Section 08 11 13.
 - a. Finish Hardware shall be selected to eliminate astragal where possible and maintain fire rating on wood and hollow metal doors.
16. Provide key cabinet, keys, and key control tags.

1.05 REFERENCE STANDARDS

- A. ANSI/ICC A117.1 - American National Standard for Accessible and Usable Buildings and Facilities; International Code Council; 2003.
- B. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2010.
- C. UL (BMD) - Building Materials Directory; Underwriters Laboratories Inc.; current edition.

1.06 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate the manufacture, fabrication, and installation of products onto which door hardware will be installed.
- B. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware. Coordinate schedule with Contractor in order to not delay project.
- C. Convey Owner's keying requirements to manufacturers.
- D. Pre-installation Meeting: Convene a pre-installation meeting one week prior to commencing work of this section; require attendance by all affected installers.
- E. Sequence installation to ensure efficient progress of the work is achieved in an orderly and expeditious manner. Building shall be lockable as soon as building is dried in.

1.07 SUBMITTALS

- A. See Section 01-3300 - Submittal Procedures, for submittal procedures.
- B. Product Data: Submit manufacturers technical product data for each item of hardware, marked to clearly show products to be furnished for this project.. Include whatever information may be necessary to show compliance with requirements, and include instructions for installation and for maintenance of operating parts and finish.
- C. Shop Drawings:
 1. Indicate locations and mounting heights of each type of hardware, schedules, catalog cuts,

- See Section 01 65 00 - Product Delivery and Handling
2. Submit manufacturer's parts lists and templates.
- E. Schedule: The hardware supplier shall submit to the Architect for approval a complete hardware schedule ten days after the award of the hardware contract. Organize hardware schedule into hardware sets indicating complete designations of every item for each door opening. Include type, style, function, finish, manufacturer, location coordinated with door schedule on drawings, door and frame types and sizes, keying and mounting heights for all hardware.
- F. Samples: (If requested by Architect)
1. Submit 1 sample of hinge, latchset, lockset, and closer illustrating style, color, and finish.
 2. Samples will be incorporated into the Work.
- G. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
1. Submit manufacturer's parts lists and templates.
- H. Keys: Deliver with identifying tags to Owner by security shipment direct from hardware supplier.
- I. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
- J. Maintenance Materials and Tools: Furnish the following for Owner's use in maintenance of project.
1. Extra Lock Cylinders: One for each master keyed group.
 2. Tools: Two sets of all special wrenches or tools applicable to each different or special hardware component, whether supplied by the hardware component manufacturer or not.

1.08 QUALITY ASSURANCE

- A. Fire-rated Openings: Provide hardware for fire-rated openings in compliance with NFPA 80 and local building code requirements. Provide only hardware which has been tested and listed by UL or FM for types and sizes of doors required and complies with requirements of the door and frame label.
- B. Americans with Disabilities Act (ADA): Provide and install finish hardware in accordance with requirements of Americans with Disabilities Act (ADA).
- C. ANSI Standards for Physically Handicapped: Finish hardware shall comply with: "American National Standard for Buildings and Facilities - Providing Accessibility and Usability for Physically Handicapped People" (ANSI A117.1) 2003 edition, by American National Standards Institute, Inc.; New York, New York. Before installation of finish hardware, notify Architect of any Contract Documents requirements that are suspected to be in non-compliance with ANSI A117.1-2003.
- D. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- E. Hardware Supplier Qualifications: Company specializing in supplying commercial door hardware with five years of experience.
- F. Hardware Supplier Personnel: Employ an Architectural Hardware Consultant (AHC) to assist in the work of this section.
1. The AHC shall have a minimum of five years of documented experience with similar type projects.
 2. A representative of the hardware supplier shall visit the job site a minimum of three (3) times during construction, and upon completion of the job shall inspect the hardware and submit a letter to the Architect in duplicate advising that the hardware has been properly installed and is operating properly.

3. The hardware supplier shall be responsible for supplying the correct hardware to meet all local and state building, fire and accessibility codes.

G. Installer Qualifications:

1. All hardware shall be installed by tradesmen skilled in the application of commercial grade hardware.
2. The installer must be approved by the Owner and Architect prior to the start of installation, and provide references of completed school projects. There will be no exceptions.

1.09 SCHEDULING

- A. The hardware supplier shall coordinate with the General Contractor to establish dates for processing submittals, furnishing templates, delivering hardware, and installing the work of this section to meet construction progress schedule included in this Project Manual. *Special attention must be given to the quick completion time required for this project and appropriate measures taken to achieve deliveries.*

1.10 DELIVERY, STORAGE, AND HANDLING

- A. Package hardware items individually with the required fasteners for proper installation; label and identify each package with door opening code to match hardware schedule.
- B. Finish hardware shall be stored in a locked area and remain secured until installation.

1.11 WARRANTY

- A. See Section 01-7839 - Project Record Documents, for additional warranty requirements.
- B. Installer's Warranty: Installer shall guarantee in writing, that all materials specified in this section shall be free from all defects and shall perform satisfactorily for a period of one (1) year after substantial completion. Installer shall replace, at his own expense, including labor, any items of hardware which may prove defective within this period.
- C. Manufacturer's Warranty: Provide manufacturer's warranty against defects in materials and workmanship as follows:
 1. Locksets: 2 years
 2. Door Closers: 10 years
 3. Exit Devices: 3 years
 4. Other Hardware: 1 year

PART 2 PRODUCTS

2.01 DOOR HARDWARE - GENERAL

- A. Provide all hardware specified or required to make doors fully functional, compliant with applicable codes, and secure to the extent indicated.
- B. Provide all items of a single type of the same model by the same manufacturer.
- C. Provide products that comply with the following:
 1. Applicable provisions of federal, state, and local codes.
 2. ANSI/ICC A117.1, American National Standard for Accessible and Usable Buildings and Facilities.
 3. Applicable provisions of 2006 International Building Code.
 4. Fire-Rated Doors: NFPA 80.
 5. Fire-Rated Doors: NFPA 80.
 6. All Hardware on Fire-Rated Doors: Listed and classified by UL as suitable for the purpose specified and indicated.
 7. Hardware for Smoke and Draft Control Doors (Indicated as "S" on Drawings): Provide hardware that enables door assembly to comply with air leakage requirements of the applicable code.

8. Products Requiring Electrical Connection: Listed and classified by UL as suitable for the purpose specified and indicated.
- D. Electrically Operated and/or Controlled Hardware: Provide all power supplies, power transfer hinges, relays, and interfaces required for proper operation; provide wiring between hardware and control components and to building power connection.

2.02 KEY CONTROLS

- A. Key Management System: For each keyed lock on project, provide two sets of consecutively numbered duplicate key tags with hanging hole and snap catch.
 1. Security Key Tags: For each keyed lock on project, provide one set of matching key tags for permanent attachment to one key of each set.
 2. Provide key collection envelopes, receipt cards, and index cards in quantity suitable to number of keys to be managed.

2.03 KEYING

- A. Door Locks: Great grand master keyed.
 1. Owner shall approve complete keying layout in writing prior to placing lock order with factory.
- B. Supply keys in the following quantities:
 1. 4 master keys for each master key group.
 2. 4 grand master keys.
 3. 4 great grand master keys.
 4. 4 construction keys.
 5. 4 control keys and 25 extra cylinder cores.
 6. 3 change keys for each lock.
- C. Provide schematic prepared by hardware supplier and instructions as to its use in design of the system.
- D. The master keys shall be sent direct to the Owner's Representative by registered mail, return receipt requested.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that doors and frames are ready to receive work; labeled, fire-rated doors and frames are present and properly installed, and dimensions are as indicated on shop drawings.
- B. Verify that electric power is available to power operated devices and of the correct characteristics.

3.02 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and applicable codes.
- B. Set units level, plumb and true to line and location.
- C. Set hardware accurately and securely anchor with attachment devices; set screws level, flush and draw up tight.
- D. Drill and countersink units which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- E. Do not install surface mounted items until finishes have been completed on the substrate.
- F. Use templates provided by hardware item manufacturer.
- G. Do not install surface mounted items until finishes applied to substrate are complete.

- H. Install hardware on fire-rated doors and frames in accordance with code and NFPA 80.
- I. Set thresholds for exterior doors in full bed of butyl - rubber or polyisobutylene mastic sealant.
- J. Mounting heights for hardware from finished floor to center line of hardware item:
 - 1. For steel doors and frames: See Section 08 11 13.
 - 2. Wood doors: See Section 08 14 16.
- K. Installer shall:
 - 1. Advise the hardware supplier before proceeding with door stop installation for possible replacement if door stop scheduled for an opening is not appropriate due to furniture layout or other reasons.
 - 2. Provide sex nuts and bolts for door closers.
 - 3. Provide 4-7/8 inch lock strikes unless otherwise noted on schedule.

3.03 FIELD QUALITY CONTROL

- A. Provide an Architectural Hardware Consultant 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 hardware for smooth operation and leave clean, free from defects, paint, etc.
- B. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.
- C. Final Adjustment: Final adjustment shall be done during the week prior to acceptance or occupancy, and make final check and adjustment of all hardware items in project. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control device to compensate for final operation of heating and ventilating equipment. Replace any hardware which cannot be adjusted to operate freely and smoothly as intended for the application at no expense to the Owner.

3.05 CLEANING

- A. Clean adjacent surfaces soiled by hardware installation. Clean finished hardware per manufacturer's instructions after final adjustments has been made. Replace items that cannot be cleaned to manufacturer's level of finish quality at no additional cost.
- B. Instruct Owner's personnel in proper adjustment and maintenance of hardware and hardware finishes, during the final adjustment of hardware.

3.06 PROTECTION

- A. Do not permit adjacent work to damage hardware or finish.
- B. Do not remove labels on lock or cylinders. This label has keying information necessary for Owner's use.

3.07 MAINTENANCE SERVICE

- A. Continued Maintenance Service: Approximately six months after the acceptance of hardware in each area, the Contractor and the hardware supplier shall schedule a meeting with USC Facilities Project Manager and return to the project and readjust every item of hardware to restore proper function of doors and hardware. Clean and lubricate operational items wherever required. Replace hardware items which have deteriorated or failed due to faulty design, materials or installation of hardware units.

END OF SECTION

Hardware Sets

207488 : Capstone Ballroom Renovs

SET #01

Doors: 101A, 101C

1 Mullion	5754 8'2"	US28	VO
1 Exit Device	35A-NL x 386NL	US26D	VO
1 Exit Device	35A-DT x 386DT	US26D	VO
1 Rim Cylinder	1E-62 STD	626	BE
2 Closer	4040 XP SCUSH	AL	LC
2 Adapter Plate	4040 18PA	AL	LC

NOTE: Balance of hardware to be provided by aluminum door supplier.

SET #02

Doors: 101D-1, 101D-2, 101L

8 Hinges	ECBB1100 4 1/2 x 4 1/2	US26D	HA
2 Flush Bolts	555	US26D	RO
1 Lockset	L9080L 02A	626	SC
1 Mortise Cylinder	1E-64 STD	626	BE
1 Closer	4040 XP EDA TBWMS	AL	LC

SET #03

Doors: 102-1, 102-2

3 Hinges	ECBB1100 4 1/2 x 4 1/2	US26D	HA
1 Lockset	L9050L 02A	626	SC
1 Mortise Cylinder	1E-64 STD	626	BE
1 Closer	4040 XP EDA TBWMS	AL	LC
1 Protection Plate	K1050 8" x 34"	US32D	RO
1 Wall Bumper	409	US32D	RO
3 Silencers	608	GREY	RO

SET #04

Doors: 104

6 Hinges	ECBB1100 4 1/2 x 4 1/2	US26D	HA
2 Flush Bolts	555	US26D	RO
1 Lockset	L9080L 02A	626	SC
1 Mortise Cylinder	1E-64 STD	626	BE
1 Closer	4040 XP EDA TBWMS	AL	LC
2 Silencers	608	GREY	RO

207488 : Capstone Ballroom Renovs

SET #05

Doors: 108

6 Hinges	ECBB1100 4 1/2 x 4 1/2	US26D	HA
2 Exit Device	9927L x 996L-R&V 425-SNB (QTY-2)	US26D	VO
2 Rim Cylinder	1E-62 STD	626	BE
2 Closer	4040 XP EDA TBWMS	AL	LC
2 Protection Plate	K1050 8" x 34"	US32D	RO
2 Silencers	608	GREY	RO

SET #06

Doors: 101E, 101F, 101G, 101H, 101J, 101K

3 Hinges	ECBB1100 4 1/2 x 4 1/2	US26D	HA
1 Lockset	L9080L 02A	626	SC
1 Mortise Cylinder	1E-64 STD	626	BE
1 Wall Bumper	409	US32D	RO
3 Silencers	608	GREY	RO