

## SECTION 087100 – DOOR HARDWARE

## PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

## 1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
  - 1. Swinging doors.
  - 2. Sliding doors.
  - 3. Other doors to the extent indicated.
- B. Door hardware includes, but is not necessarily limited to, the following:
  - 1. Mechanical door hardware.
  - 2. Electromechanical door hardware.
  - 3. Automatic operators.
  - 4. Cylinders specified for doors in other sections.
- C. Related Sections:
  - 1. Division 08 Section “Door Hardware Schedule”.
  - 2. Division 08 Section “Hollow Metal Doors and Frames”.
  - 3. Division 08 Section “Stainless Steel Doors and Frames”.
  - 4. Division 08 Section “Interior Aluminum Doors and Frames”.
  - 5. Division 08 Section “Flush Wood Doors”.
  - 6. Division 08 Section “Stile and Rail Wood Doors”.
  - 7. Division 08 Section “Aluminum-Framed Entrances and Storefronts”.
  - 8. Division 08 Section “Automatic Door Operators”.
  - 9. Division 08 Section “Access Control Hardware”.
  - 10. Division 28 Section “Access Control”.
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
  - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
  - 2. ANSI/SDI A250.13 - Testing and Rating of Severe Windstorm Resistant Components for Swing Door Assemblies.
  - 3. FEMA P-361 2015 - Design and Construction Guidance for Community Safe Rooms.
  - 4. ICC 500-2014, ICC/NSSA Standard for the Design and Construction of Storm Shelters.

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

5. ICC/IBC - International Building Code.
6. NFPA 70 - National Electrical Code.
7. NFPA 80 - Fire Doors and Windows.
8. NFPA 101 - Life Safety Code.
9. NFPA 105 - Installation of Smoke Door Assemblies.
10. UL/ULC and CSA C22.2 – Standards for Automatic Door Operators Used on Fire and Smoke Barrier Doors and Systems of Doors.
11. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards:

1. ANSI/BHMA Certified Product Standards - A156 Series
2. UL10C – Positive Pressure Fire Tests of Door Assemblies

### 1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
  2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
  3. Content: Include the following information:
    - a. Type, style, function, size, label, hand, and finish of each door hardware item.
    - b. Manufacturer of each item.
    - c. Fastenings and other pertinent information.
    - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
    - e. Explanation of abbreviations, symbols, and codes contained in schedule.
    - f. Mounting locations for door hardware.
    - g. Door and frame sizes and materials.
    - h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Shop Drawings: Details of electrified access control hardware indicating the following:
1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
    - a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
    - b. Complete (risers, point-to-point) access control system block wiring diagrams.
    - c. Wiring instructions for each electronic component scheduled herein.
  2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
- D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- E. Informational Submittals:
1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- F. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals.
- 1.4 QUALITY ASSURANCE
- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
  - B. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this

Project and whose work has resulted in construction with a record of successful in-service performance.

- C. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- D. Windstorm Assembly Installer Qualifications: Installers are to be factory trained for shop and field installation prior to project bid, and are responsible for commissioning, servicing, and warranting the installed equipment specified for the project. A pre-installation site inspection of the frame and floor conditions shall be conducted by the factory trained installer prior to any Windstorm assembly hardware applied to the opening.
- E. Automatic Operator Supplier Qualifications: Power operator products and accessories are required to be supplied and installed through current members of the manufacturer's "Power Operator Preferred Installer" program. Suppliers are to be factory trained, certified, and a direct purchaser of the specified power operators and be responsible for the installation and maintenance of the units and accessories indicated for the Project.
- F. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
  - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
  - 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
- G. Hurricane Resistant Exterior Openings: Provide exterior door hardware as complete and tested assemblies, or component assemblies, including approved doors and frames specified under Section 081113 "Hollow Metal Doors and Frames", to meet the wind loads, design pressures, debris impact resistance, and glass and glazing requirements applicable to the Project.
  - 1. Test units according to ASTM E330, ASTM E1886, ASTM E1996 standards, certified by a qualified independent third party testing agency acceptable to authority having jurisdiction, and bearing a third party certification agency permanent label indicating windstorm approved product.
- H. Severe Storm Shelter Openings: Provide complete door systems for hurricane or tornado resistant storm shelters and other areas of refuge complying and tested according to FEMA P-361 (2015), Design and Construction Guidance for Community Safe Rooms; and ICC 500 (2014), ICC/NSSA Standard for the Design and Construction of Storm Shelters.



## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

- I. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.
- J. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
  - 1. Function of building, purpose of each area and degree of security required.
  - 2. Plans for existing and future key system expansion.
  - 3. Requirements for key control storage and software.
  - 4. Installation of permanent keys, cylinder cores and software.
  - 5. Address and requirements for delivery of keys.
- K. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
  - 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
  - 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
  - 3. Review sequence of operation narratives for each unique access controlled opening.
  - 4. Review and finalize construction schedule and verify availability of materials.
  - 5. Review the required inspecting, testing, commissioning, and demonstration procedures
- L. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

## 1.6 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.
- C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

## 1.7 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
  - 1. Structural failures including excessive deflection, cracking, or breakage.
  - 2. Faulty operation of the hardware.
  - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
  - 4. Electrical component defects and failures within the systems operation.
- C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.
- D. Special Warranty Periods:
  - 1. Ten years for mortise locks and latches.
  - 2. Two years for electromechanical door hardware.

## 1.8 MAINTENANCE SERVICE

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

## PART 2 - PRODUCTS

## 2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.
- B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:
  - 1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.
- C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

## 2.2 HANGING DEVICES

- A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
  - 1. Quantity: Provide the following hinge quantity:
    - a. Two Hinges: For doors with heights up to 60 inches.
    - b. Three Hinges: For doors with heights 61 to 90 inches.
    - c. Four Hinges: For doors with heights 91 to 120 inches.
    - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
  - 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
    - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
    - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
  - 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
    - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
    - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
  - 4. Hinge Options: Comply with the following:

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

- a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.
5. Manufacturers:
  - a. Hager Companies (HA).
  - b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK).
  - c. Stanley Hardware (ST).
- B. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 certified continuous geared hinge. with minimum 0.120-inch thick extruded 6060 T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
  1. Manufacturers:
    - a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK).
    - b. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).
- C. **Pivots:** ANSI/BHMA A156.4, Grade 1, certified. Space intermediate pivots equally not less than 25 inches on center apart or not more than 35 inches on center for doors over 121 inches high. Pivot hinges to have oil impregnated bronze bearing in the top pivot and a radial roller and thrust bearing in the bottom pivot with the bottom pivot designed to carry the full weight of the door. Pivots to be UL listed for windstorm where applicable.
  1. Manufacturers:
    - a. **Architectural Builders Hardware (AH).**
    - b. Rixson Door Controls (RF).
- D. Sliding and Folding Door Hardware: Hardware is to be of type and design as specified and should comply with ANSI/BHMA A156.14.
  1. Sliding Bi-Passing Pocket Door Hardware: Provide complete sets consisting of track, hangers, stops, bumpers, floor channel, guides, and accessories indicated.
  2. Bi-folding Door Hardware: Rated for door panels weighing up to 125 lb.
  3. Pocket Sliding Door Hardware: Rated for doors weighing up to 200 lb.
  4. Manufacturers:
    - a. Hager Companies (HA).
    - b. Johnson Hardware (JO).
    - c. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).

## 2.3 POWER TRANSFER DEVICES

- A. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:

- a. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE) – EL-CEPT Series.
- b. Securitron (SU) - EL-CEPT Series.
- c. Von Duprin (VD) - EPT-10 Series.

- B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

1. Provide one each of the following tools as part of the base bid contract:

- a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Electrical Connecting Kit: QC-R001.
- b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Connector Hand Tool: QC-R003.

2. Manufacturers:

- a. Hager Companies (HA) - Quick Connect.
- b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) – QC-C Series.
- c. Stanley Hardware (ST) – WH Series.

## 2.4 DOOR OPERATING TRIM

- A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8” in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
  5. Manufacturers:
    - a. Door Controls International (DC).
    - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
    - c. Trimco (TC).
- B. Coordinators: ANSI/BHMA A156.3 certified door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.
1. Manufacturers:
    - a. Door Controls International (DC).
    - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
    - c. Trimco (TC).
- C. Door Push Plates and Pulls: ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
  2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
  3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
  4. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.
  5. Manufacturers:
    - a. Hiawatha, Inc. (HI).
    - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
    - c. Trimco (TC).

## 2.5 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
- B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.
- C. Cylinders: Original manufacturer cylinders complying with the following:
  1. Mortise Type: Threaded cylinders with rings and cams to suit hardware application.

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
  3. Bored-Lock Type: Cylinders with tailpieces to suit locks.
  4. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
  5. Keyway: Match Facility Standard.
- D. Keying System: Each type of lock and cylinders to be factory keyed.
1. Conduct specified "Keying Conference" to define and document keying system instructions and requirements.
  2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
  3. Existing System: Key locks to Owner's existing system.
- E. Key Quantity: Provide the following minimum number of keys:
1. Change Keys per Cylinder: Two (2)
  2. Master Keys (per Master Key Level/Group): Five (5).
  3. Construction Keys (where required): Ten (10).
- F. Construction Keying: Provide construction master keyed cylinders.
- G. Key Registration List (Bitting List):
1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
  2. Provide transcript list in writing or electronic file as directed by the Owner.
- H. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.
1. Manufacturers:
    - a. Lund Equipment (LU).
    - b. MMF Industries (MM).
    - c. Telkee (TK).
- I. Key Control Software: Provide one network version of "Key Wizard" branded key management software package that includes one year of technical support and upgrades to software at no charge. Provide factory key system formatted for importing into "Key Wizard" software.
- 2.6 MECHANICAL LOCKS AND LATCHING DEVICES
- A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 certified. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body.

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1. Manufacturers:
  - a. Sargent Manufacturing (SA) – 8200 Series.
  - b. Stanley Best (BE) – 40H-UN Series.
- B. Multi-Point Locksets: Vertical rod locking devices designed for openings requiring multiple latching points within one locking mechanism. Rods are retracted by dual mounted outside lever trim controls available in a variety of ANSI/BHMA operational functions. Option for single top latching only eliminates the need for bottom strikes.
  1. Manufacturers:
    - a. Sargent Manufacturing (SA) - 7000 Series.
- C. Multi-Point Locksets, FEMA: Three-point locking system device engineered for in-swinging and out-swinging door applications on windstorm safe shelter rooms. Extra heavy duty steel component construction securing the door to the frame at top, bottom and center latch positions. All three latching points are automatically activated when the device is locked. Multi-Point Deadlocking System shall be used only with doors, frames and associated hardware that have been engineered, tested and approved for a complete opening assembly system.
  1. Severe Storm Shelter Components: Multi-point locking system devices engineered for in-swinging and out-swinging door applications on tornado or hurricane resistant safe shelter rooms. The multi-point latching integrated device is approved for usage as part of a complete ICC 500 (2014) and FEMA P-361 (2015) door, frame and hardware assembly.
  2. ANSI-BHMA listed to A156.37 Grade 1 for multi-point locks:
    - a. Lever torque to retract all bolts less than 28 in.lb.
    - b. Cycle tested to 800,000 cycles.
  3. NFPA 80 and NFPA 101 life safety requirements.
  4. UL10B or UL10C, 3-hour fire rated openings.
  5. Latchbolt Construction:
    - a. Center Bolt to be one piece,  $\frac{3}{4}$ " throw anti-friction stainless steel latch and one piece, 1" throw, hardened stainless steel deadbolt; 2-3/4" standard backset.
    - b. Top and Bottom Bolts to be  $\frac{3}{4}$ " x  $\frac{3}{4}$ " stainless steel square latchbolt with  $\frac{3}{4}$ " projection.
  6. Independent top and bottom bolt projection shall be field adjustable:
    - a. From the center mortise pocket.
    - b. Ability to make field adjustments while the door is in the hung position without the removal of the door.
    - c. Top and Bottom Bolts and the Center Mortise Case shall be factory installed into the door assembly.



7. Bottom strike shall be offset and reversible to accommodate alignment issues due to rough opening tolerances.
8. Devices must be able to accommodate sectional rose and lever trim to match the design style and architectural finishes of the balance of the lockset and latches as specified.
9. Devices must be available with electronic access control options for higher or everyday use and traceability.
10. Devices must be available with rod-dogging indicator options:
  - a. Operated by single-point latching for non-emergency or normal use of the space.
  - b. Ability to hold rods in a retracted state.
  - c. Day-to-day operations with mortise lock only.
  - d. Indicator to show status.
11. Manufacturers:
  - a. Corbin Russwin Hardware (RU) - FE6600 Series.
  - b. Sargent Manufacturing (SA) - FM7300 Series.

D. Residential Tubular Locking Devices: Standard ANSI A156.2, Series 4000, Grade 2.

1. Tubular locksets, deadbolts, and handlesets designed to fit ANSI standard door preps.
2. Locks are to be non-handed and have adjustable backset.
3. Manufacturers:
  - a. Emtek (ET) - Decorative Series

E. Knurling: Where required by local code provide knurling or abrasive coating to all levers on doors leading to hazardous areas such as mechanical rooms, boiler and furnace rooms, janitor closets, and as otherwise required or specified.

F. Hurricane and Tornado Resistance Compliance: Mechanical locking and latching devices to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate hurricane or tornado resistant products that have been independent third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.

## 2.7 ELECTROMECHANICAL LOCKING DEVICES

A. Electromechanical Multi-Point Locks: Vertical rod locking devices designed for openings requiring multiple latching points within one locking mechanism. Rods are retracted by dual mounted outside lever trim controls available in a variety of ANSI/BHMA operational functions. Option for single top latching only eliminates the need for bottom strikes.

Electromechanical options include solenoid activated trim, electric latch retraction, and inside and outside lever monitoring.

1. Manufacturers:

- a. Sargent Manufacturing (SA) – 7000 Series.

- B. Hurricane and Tornado Resistance Compliance: Electromechanical locking devices to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate hurricane or tornado resistant products that have been independent third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.

2.8 AUXILIARY LOCKS

- A. Cylindrical Deadlocks: ANSI/BHMA A156.36, Grade 1, cylindrical type deadlocks to fit standard ANSI 161 preparation and 1 3/8" to 1 3/4" thickness doors. Provide tapered collars to resist vandalism and 1" throw solid steel bolt with hardened steel roller pins. Deadlocks to be products of the same source manufacturer and keyway as other locksets.

1. Manufacturers:

- a. Stanley Best (BE) - T Series.

2.9 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

- B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

## 2.10 ELECTROMAGNETIC LOCKING DEVICES

- A. Surface Electromagnetic Locks (Heavy Duty): Electromagnetic locks to be surface mounted type conforming to ANSI A156.23, Grade 2 with minimum holding force strength of 1,200 pounds. Locks to be capable of accepting between 12 to 24 volts direct current and be UL listed for use on fire rated door assemblies. Electromagnetic coils are to consume no more than 1.5W during normal operation. Locks are to have an integrated door position switch, tamper switch, and lock bond sensor. Locks are to have integrated motion sensor and/or security camera as indicated in the hardware sets. Locks to be capable of detecting door prop conditions and entering low power mode. Provide mounting accessories as needed to suit opening conditions. Power supply to be by the same manufacturer as the lock with combined products having a lifetime replacement warranty.

1. Manufacturers:

- a. Securitron (SU) – M680E Series.

- B. Concealed Shear Locks: Shear locks to be self-aligning magnetic type suitable for mortised mounting with minimum holding force strength of 1000 lbs. Locks to be "dual voltage" capable of accepting either 12 or 24VDC without field adjustment at the time of the installation. Electronics are to be fully sealed against tampering and allow exterior weatherproof applications. Locks can be mounted at the top or side of the door and will operate on either single or double acting doors. Power supply to be by the same manufacturer as the lock with combined products having a lifetime replacement warranty.

1. Manufacturers:

- a. Securitron (SU) - SAM Series.

## 2.11 ELECTRIC STRIKES

- A. Standard Electric Strikes: Heavy duty, cylindrical and mortise lock electric strikes conforming to ANSI/BHMA A156.31, Grade 1, UL listed for both Burglary Resistance and for use on fire rated door assemblies. Stainless steel construction with dual interlocking plunger design tested to exceed 3000 lbs. of static strength and 350 ft-lbs. of dynamic strength. Strikes tested for a minimum 1 million operating cycles. Provide strikes with 12 or 24 VDC capability and supplied standard as fail-secure unless otherwise specified. Provide latchbolt and latchbolt strike monitoring indicating both the position of the latchbolt and locked condition of the strike where specified.

1. Manufacturers:

- a. Folger Adam EDC (FO).  
b. HES (HS).

- B. Provide electric strikes with in-line power controller and surge suppressor by the same manufacturer as the strike with the combined products having a five year warranty.

## 2.12 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
  2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
  3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
  4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
  5. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
    - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
    - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
  6. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
  7. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
  8. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
  9. Rail Sizing: Provide exit device rails factory sized for proper door width application.
  10. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
  11. Hurricane and Tornado Resistance Compliance: Conventional exit devices are to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate hurricane or tornado resistant products that have been independent third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

- B. Multi-Point Exit Devices for Severe Storm Shelter Openings: Multi-point exit devices specifically engineered for out-swinging door applications on tornado or hurricane resistant safe shelter rooms. Extra heavy duty steel component construction with each of the latching points automatically activated when the device is locked. The multi-point exit device is approved for usage as part of a complete ICC 500 (2014) and FEMA P-361 (2015) door, frame and hardware assembly.
1. Manufacturers:
    - a. Corbin Russwin Hardware (RU) - FE5400S Series.
    - b. Sargent Manufacturing (SA) - FM8700 Series.
- C. Tube Steel Removable Mullions: ANSI/BHMA A156.3 removable steel mullions with malleable-iron top and bottom retainers and a primed paint finish.
1. At openings designed for severe wind load conditions due to hurricanes or tornadoes, provide manufacturer's certified mullion and accessories to meet applicable state and local windstorm codes.
  2. Provide keyed removable feature where specified in the Hardware Sets.
  3. Provide stabilizers and mounting brackets as required.
  4. Provide electrical quick connection wiring options as specified in the hardware sets.
  5. Manufacturers:
    - a. Von Duprin (VD) - 9954 Series.

## 2.13 DOOR CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:
1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers including installation and adjusting information on inside of cover.
  2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
  3. Cycle Testing: Provide closers which have surpassed 15 million cycles in a test witnessed and verified by UL.
  4. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the physically handicapped, provide units complying with ANSI ICC/A117.1.

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

5. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
6. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
7. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
8. Hurricane and Tornado Resistance Compliance: Door closers to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate hurricane or tornado resistant products that have been independent third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.

- B. Door Closers, Surface Mounted (Large Body Cast Iron): ANSI/BHMA A156.4, Grade 1 surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.

1. Manufacturers:

- a. Norton Door Controls (NO) – 9500 Series.
- b. Sargent Manufacturing (SA) - 281 Series.

- C. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.

1. Manufacturers:

- a. LCN Closers (LC) - 4040 Series.

## 2.14 ELECTROHYDRAULIC DOOR OPERATORS

- A. General: Provide low energy operators of size recommended by manufacturer for door size, weight, and movement; for condition of exposure; and for compliance with UL 325. Coordinate operator mechanisms with door operation, hinges, and activation devices.
1. Fire-Rated Doors: Provide door operators for fire-rated door assemblies that comply with NFPA 80 for fire-rated door components and are listed and labeled by a qualified testing agency.
- B. Standard: Certified ANSI/BHMA A156.19.

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

## C. Performance Requirements:

1. Opening Force if Power Fails: Not more than 15 lbf required to release a latch if provided, not more than 30 lbf required to manually set door in motion, and not more than 15 lbf required to fully open door.
2. Entrapment Protection: Not more than 15 lbf required to prevent stopped door from closing or opening.

## D. Configuration: Surface mounted or in-ground as required. Door operators to control single swinging and pair of swinging doors.

## E. Operation: Power opening and spring closing operation capable of meeting ANSI A117.1 accessibility guideline. Provide time delay for door to remain open before initiating closing cycle as required by ANSI/BHMA A156.19. When not in automatic mode, door operator to function as manual door closer with fully adjustable opening and closing forces, with or without electrical power.

## F. Features: Operator units to have full feature adjustments for door opening and closing force and speed, backcheck, motor assist acceleration from 0 to 30 seconds, time delay, vestibule interface delay, obstruction recycle, and hold open time from 0 up to 30 seconds.

## G. Provide outputs and relays on board the operator to allow for coordination of exit device latch retraction, electric strikes, magnetic locks, card readers, safety and motion sensors and specified auxiliary contacts.

## H. Brackets and Reinforcements: Manufacturer's standard, fabricated from aluminum with nonferrous shims for aligning system components.

## I. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. LCN Closers (LC) - 4640 Series.

## 2.15 SURFACE MOUNTED CLOSER HOLDERS

## A. Electromagnetic Door Holders: Certified ANSI A156.15 electromagnetic door holder/releases with a minimum 20 to 40 pounds holding power and single coil construction able to accommodate 12VDC, 24VAC, 24VDC and 120VAC. Coils to be independently wound, employing an integral fuse and armatures to include a positive release button.

## 1. Manufacturers:

- a. Rixson (RF) - 980/990 Series.
- b. Sargent Manufacturing (SA) - 1560 Series.

## 2.16 ARCHITECTURAL TRIM

## A. Door Protective Trim

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
4. Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:
  - a. Stainless Steel: 300 grade, 050-inch thick.
5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:
  - a. Hiawatha, Inc. (HI).
  - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
  - c. Trimco (TC).

## 2.17 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
  1. Manufacturers:
    - a. Hiawatha, Inc. (HI).
    - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
    - c. Trimco (TC).
- C. Overhead Door Stops and Holders: ANSI/BHMA A156.6, Grade 1 certified overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.



## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1. Manufacturers:

- a. Glynn Johnson (GJ).
- b. Rixson Door Controls (RF).

2.18 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
  1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
  1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
  1. National Guard Products (NG).
  2. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).
  3. Reese Enterprises, Inc. (RE).

2.19 ELECTRONIC ACCESSORIES

- A. Request-to-Exit Motion Sensor: Request-to-Exit Sensors motion detectors specifically designed for detecting exiting through a door from the secure area to a non-secure area. Include built-in timers (up to 60 second adjustable timing), door monitor with sounder alert, internal vertical pointability coverage, 12VDC or 24VDC power and selectable relay trigger with fail safe/fail secure modes.
  1. Manufacturers:

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

- a. Security Door Controls (SD) - MD-31D Series.
  - b. Securitron (SU) - XMS Series.
- B. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.
  - 1. Manufacturers:
    - a. Security Door Controls (SD) - DPS Series.
    - b. Securitron (SU) - DPS Series.
- C. Power Supplies: Provide Nationally Recognized Testing Laboratory Listed 12VDC or 24VDC (field selectable) filtered and regulated power supplies. Include battery backup option with integral battery charging capability in addition to operating the DC load in event of line voltage failure. Provide the least number of units, at the appropriate amperage level, sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.
  - 1. Manufacturers:

## 2.20 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

## 2.21 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

## PART 3 - EXECUTION

## 3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

## 3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

## 3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
  - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
  - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
  - 2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
  - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
  - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

- D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

### 3.4 FIELD QUALITY CONTROL

- A. Field Inspection: Supplier will perform a final inspection of installed door hardware and state in report whether work complies with or deviates from requirements, including whether door hardware is properly installed, operating and adjusted.

### 3.5 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

### 3.6 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

### 3.7 DEMONSTRATION

- A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

### 3.8 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

- B. The supplier is responsible for handing and sizing all products and providing the correct option for the appropriate door type and material where more than one is presented in the hardware sets. Quantities listed are for each pair of doors, or for each single door.
- C. Manufacturer's Abbreviations:

1. MK - McKinney
2. PE - Pemko
3. GS - ASSA ABLOY Glass Solutions
4. RF - Rixson
5. RO - Rockwood
6. SA - Sargent
7. VD - Von Duprin
8. BE - dormakaba Best
9. SU - Securitron
10. ET - Emtek
11. DO - dormakaba Arch Hdw
12. SC - Schlage
13. FO - Folger Adam
14. OT - OTHER
15. GJ - Glynn-Johnson
16. LC - LCN Closers
17. SH - Schlage Electronic Security
18. JG – Joseph Giles
19. SVB – Sun Valley Bronze

### Hardware Sets

#### Set: 1.0

Doors: C105

Description: Hotel Interior Vestibule (20.2)

2	Pivot Set	117-1/2	626	RF
2	Intermediate Pivot	M19	626	RF
2	Exit Device	DG1000	US32D	DO
2	Core	7 pin Best core per owner standard	626	BE
2	Cylinder	as required	626	SC
2	Electric Strike	310-1 x Straight Keeper FA3101-24VDC		

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

		630	FO	⚡
2 Door Pull	DP1004 x MABW/ JGL10		OT	
2 Door Operator	4642 REG	AL	LC	
1 Wiring Diagram	provided by security integrator			
2 Actuator	8310-856T		LC	
1 Power Supply	provided by security integrator			

## Notes:

Presenting valid credential to RFID reader retracts latch, allowing authorized entry. Manual key override available at all times. During power failure or fire alarm doors remain closed and locked. Free egress at all times.

**Set: 2.1**

Doors: C104.1, C104.2

Description: Hotel Entry - Single Doors (20.1)

1 Pivot Set	117-1/2	626	RF	
1 Intermediate Pivot	M19	626	RF	
1 Exit Device	DG1000	US32D	DO	
1 Core	7 pin Best core per owner standard	626	BE	
1 Cylinder	as required	626	SC	
1 Electric Strike	310-1 x Straight Keeper FA3101-24VDC	630	FO	⚡
1 Door Pull	DP1004 x MABW/ JGL10		OT	
1 Door Operator	4642 REG	AL	LC	
1 SALTO Card Reader	provided by security integrator			
1 Wiring Diagram	provided by security integrator			
2 Actuator	8310-856T		LC	
1 Power Supply	provided by security integrator			

## Notes:

Presenting valid credential to RFID reader retracts latch, allowing authorized entry. Manual key override available at all times. During power failure or fire alarm doors remain closed and locked. Free egress at all times.

**Set: 2.2**

Doors: C104.3

Description: Hotel Entry - Double Doors (20.1)

2 Pivot Set	117-1/2	626	RF	
2 Intermediate Pivot	M19	626	RF	
2 Exit Device	DG1000	US32D	DO	
2 Core	7 pin Best core per owner standard	626	BE	
2 Cylinder	as required	626	SC	
2 Electric Strike	310-1 x Straight Keeper FA3101-24VDC	630	FO	⚡

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

2	Door Pull	DP1004 x MABW/ JGL10		OT
2	Door Operator	4642 REG	AL	LC
1	SALTO Card Reader	provided by security integrator		
1	Wiring Diagram	provided by security integrator		
2	Actuator	8310-856T		LC
1	Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to RFID reader retracts latch, allowing authorized entry. Manual key override available at all times. During power failure or fire alarm doors remain closed and locked. Free egress at all times.

**Set: 2.3**

Doors: C103

Description: Elevator Lobby Vestibule - Card Reader

1	Pivot Set	117-1/2	626	RF
1	Intermediate Pivot	M19	626	RF
1	Access Control Mort Lock	45HM7DEU 15PH	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Closer	4040XP DEL REG/ PA	DKBRZ	LC
1	Electric Power Transfer	EPT10	SP28	VD ⚡
1	Position Switch	679-05HM		SH
1	SALTO Card Reader	provided by security integrator		
1	Wiring Diagram	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to RFID reader retracts latch, allowing authorized entry. Manual key override available at all times. During power failure or fire alarm doors remain closed and locked. Free egress at all times.

**Set: 3.0**

Doors: C101.1, C101.2, C102.3, C102.4, FC101.1, FC101.2, FC102.3, FC102.4

Description: Exterior Entrance Vestibule - Card Reader (1.1)

1	Pivot Set	117-1/2	626	RF
1	Intermediate Pivot	M19	626	RF
1	Exit Device	DG1000	US32D	DO
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Electric Strike	310-1 x Straight Keeper FA3101-24VDC	630	FO ⚡
1	Door Pull	DP1004 x MABW/ JGL10		OT
1	Door Operator	4642 REG	AL	LC

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Threshold	1715A x Opening Width		PE
1	Wiring Diagram	provided by security integrator		
1	LENEL Card Reader	provided by security integrator		
1	Actuator	8310-856T		LC
1	Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader on exterior of building retracts latch of both interior and exterior doors, allowing authorized entry. Manual key override available at all times. During power failure or fire alarm doors remain closed and locked. Free egress at all times.

**Set: 4.0**

Doors: V105.1, V105.2

Description: Exterior Aluminum Exit

1	Continuous Hinge	CFM_SLF-HD1 x Length Required		PE
1	Rim Exit Device	98EO	US26D	VD
1	Pull	RM202	US32D	RO
1	Door Closer	4040XP DEL SCUSH	AL	LC
1	Threshold	1715A x Opening Width		PE
1	Gasketing	provided by aluminum door manufacturer		
1	Rain Guard	346C x Width of Frame Head		PE
1	Sweep	3452CNB x Length Required		PE

## Notes:

- Coordinate all hardware with the aluminum storefront manufacturer/supplier.
- Provide necessary drop plates and fillers for proper installation of door closers.
- Provide blocking rings in thickness as required to fill gap, if any, between cylinder head and face of door.
- Verify finish of hardware.

**Set: 5.0**

Doors: 102.2

Description: Exterior Restaurant - Exit Only

1	Continuous Hinge	CFM_SLF-HD1 x Length Required		PE
1	Rim Exit Device	98EO	US26D	VD
1	Door Closer	4040XP DEL SCUSH	AL	LC
1	Threshold	1715A x Opening Width		PE
1	Gasketing	provided by aluminum door manufacturer		
1	Rain Guard	346C x Width of Frame Head		PE
1	Sweep	3452CNB x Length Required		PE



## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

## Notes:

- Coordinate all hardware with the aluminum storefront manufacturer/supplier.
- Provide necessary drop plates and fillers for proper installation of door closers.
- Provide blocking rings in thickness as required to fill gap, if any, between cylinder head and face of door.
- Verify finish of hardware.

**Set: 6.1**

Doors: 701.1, 701.2, C702.1, C702.2, C703.1, C703.2

Description: Roof Aluminum Exits

1	Continuous Hinge	CFM_SLF-HD1 x Length Required		PE
1	Concealed Vert Rod Exit	9847L 996L(Std)	US26D	VD
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Closer	4040XP DEL SCUSH	AL	LC
1	Threshold	1715A x Opening Width		PE
1	Gasketing	provided by aluminum door manufacturer		

## Notes:

- Coordinate all hardware with the aluminum storefront manufacturer/supplier.
- Provide necessary drop plates and fillers for proper installation of door closers.
- Provide blocking rings in thickness as required to fill gap, if any, between cylinder head and face of door.
- Verify finish of hardware.

**Set: 6.2**

Doors: C704

Description: Roof Aluminum Exit Only - Card Reader

1	Continuous Hinge	CFM_SLF-HD1 PT x Length Required		PE
1	Concealed Vert Rod Exit	QEL RX 9847L-NL 996L-NL	US26D	VD
1	SALTO Electronic Trim	provided by security integrator		
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Pull	RM202	US32D	RO
1	Door Closer	4040XP DEL SCUSH	AL	LC
1	Threshold	1715A x Opening Width		PE
1	Gasketing	provided by aluminum door manufacturer		

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Electric Power Transfer	EPT10	SP28	VD	⚡
1	Wiring Diagram	provided by security integrator			
1	Position Switch	DPS-M-BK		SU	⚡
1	Power Supply	provided by security integrator			

## Notes:

- Coordinate all hardware with the aluminum storefront manufacturer/supplier.
- Provide necessary drop plates and fillers for proper installation of door closers.
- Provide blocking rings in thickness as required to fill gap, if any, between cylinder head and face of door.
- Verify finish of hardware.

**Set: 7.0**

Doors: 062

Description: Compressor - Card Reader

2	Continuous Hinge	MCK-14HD EPT	CL	MK	
1	Mullion	KR9954 x Length as required	SP28	VD	
1	Rim Exit Device	RX 98EO	US26D	VD	
1	Rim Exit Device	QEL RX 98L-NL 996L-NL	US26D	VD	
1	Core	7 pin Best core per owner standard	626	BE	
1	Cylinder	as required	626	SC	
2	Door Closer	4040XP DEL SCUSH	AL	LC	
1	Threshold	271A x Length Required x MSES25SS		PE	
1	Mullion Gasketing	5110BL		PE	
1	Gasketing	303AS (Head & Jambs)		PE	
2	Sweep	18061CNB		PE	
2	Electric Power Transfer	EPT10	SP28	VD	⚡
2	Position Switch	679-05HM		SH	
1	Wiring Diagram	provided by security integrator			
1	LENEL Card Reader	provided by security integrator			
1	Power Supply	provided by security integrator			

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm door remains closed and locked. Free egress at all times.

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

**Set: 8.0**

Doors: C001, C007

Description: Loading Dock - Card Reader

2	Continuous Hinge	MCK-14HD EPT	CL	MK
1	Mullion	KR9954 x Length as required	SP28	VD
1	Rim Exit Device	RX 98EO	US26D	VD
1	Rim Exit Device	QEL RX 98L-NL 996L-NL	US26D	VD
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
2	Door Closer	4040XP DEL REG/ PA	AL	LC
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Threshold	271A x Length Required x MSES25SS		PE
1	Mullion Gasketing	5110BL		PE
1	Gasketing	303AS (Head & Jambs)		PE
2	Sweep	18061CNB		PE
2	Electric Power Transfer	EPT10	SP28	VD ⚡
1	Position Switch	679-05HM		SH
1	Wiring Diagram	provided by security integrator		
1	LENEL Card Reader	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm doors remain closed and locked. Free egress at all times

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

**Set: 9.0**Doors: [FC002](#)

Description: Loading Dock - Card Reader

1	Continuous Hinge	<a href="#">MCK-14HD EPT</a>	CL	MK
1	Rim Exit Device	<a href="#">QEL RX 98L-NL 996L-NL</a>	US26D	VD
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	<a href="#">as required</a>	626	SC
1	Door Closer	<a href="#">4040XP DEL SCUSH</a>	AL	LC
1	Kick Plate	<a href="#">K1050 10" BEV CSK</a>	US26D	RO
1	Threshold	<a href="#">271A x Length Required x MSES25SS</a>		PE
1	Gasketing	<a href="#">303AS (Head &amp; Jambs)</a>		PE
1	Sweep	<a href="#">18061CNB</a>		PE
1	Electric Power Transfer	<a href="#">EPT10</a>	SP28	VD ⚡
1	Position Switch	<a href="#">679-05HM</a>		SH
1	Wiring Diagram	provided by security integrator		
1	LENEL Card Reader	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm door remains closed and locked. Free egress at all times.

**Set: 10.0**Doors: [V106.2](#)

Description: Exterior Stair - Exit Only

8	Hinge (heavy weight)	<a href="#">T4A3386 NRP</a>	US32D	MK
1	Mullion	<a href="#">KR9954 x Length as required</a>	SP28	VD
2	Rim Exit Device	<a href="#">98EO</a>	US26D	VD
1	Core	7 pin Best core per owner standard	626	BE

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Cylinder	as required	626	SC
2	Door Closer	4040XP DEL SCUSH	AL	LC
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Threshold	1715A x Opening Width		PE
1	Mullion Gasketing	5110BL		PE
1	Gasketing	303AS (Head & Jambs)		PE
1	Rain Guard	346C x Width of Frame Head		PE
2	Sweep	3452CNB x Length Required		PE

**Set: 11.0**

Doors: V705, V706

Description: Exterior Stair - Pair (11.2)

6	Hinge (heavy weight)	T4A3386	US32D	MK
2	Fire Rated Surf Vert Rod (lever, passage)	9827L-BE-F LBR 996L-BE	US26D	VD
2	Door Closer	4040XP DEL REG/ PA	AL	LC
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
2	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Threshold	1715A x Opening Width		PE
1	Gasketing	303AS (Head & Jambs)		PE
2	Sweep	3452CNB x Length Required		PE
1	Astragal	S772BL		PE

**Set: 12.0**

Doors: 060, F020

Description: Vegetable Wash/ Control - Card Reader

3	Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1	Access Control Mort Lock	45HM7DEU 15PH	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Gasketing	303AS (Head & Jambs)		PE
1	Sweep	18061CNB		PE
1	Electric Power Transfer	EPT10	SP28	VD ⚡
1	Position Switch	679-05HM		SH
1	Wiring Diagram	provided by security integrator		
1	LENEL Card Reader	provided by security integrator		
1	Power Supply	provided by security integrator		



## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm doors remain closed and locked. Free egress at all times

**Set: 13.0**Doors: [F140](#)

Description: Exterior Storage

3	Hinge (heavy weight)	<a href="#">T4A3386 NRP</a>	US32D	MK
1	Storeroom Lock	<a href="#">45H7D 15H</a>	626	BE
1	Core	<a href="#">7 pin Best core per owner standard</a>	626	BE
1	Cylinder	<a href="#">as required</a>	626	SC
1	Door Closer	<a href="#">4040XP DEL SCUSH</a>	AL	LC
1	Kick Plate	<a href="#">K1050 10" BEV CSK</a>	US26D	RO
1	Threshold	<a href="#">1715A x Opening Width</a>		PE
1	Gasketing	<a href="#">S88BL x Length as Required</a>		PE
1	Rain Guard	<a href="#">346C x Width of Frame Head</a>		PE
1	Sweep	<a href="#">3452CNB x Length Required</a>		PE

**Set: 14.0**Doors: [722](#), [724](#)

Description: Roof Single Restrooms

3	Hinge (heavy weight)	<a href="#">T4A3386</a>	US32D	MK
1	Privacy Set	<a href="#">45H0L 15H VIN</a>	626	BE
1	Door Closer	<a href="#">4040XP DEL REG/ PA</a>	AL	LC
1	Door Stop	<a href="#">481/ 409 (where applicable)</a>	US26D	RO
1	Gasketing	<a href="#">S88BL x Length as Required</a>		PE
1	Sweep	<a href="#">18061CNB</a>		PE
1	Coat Hook	<a href="#">RM802</a>	US26D	RO

**Set: 15.0**Doors: [714A](#)

Description: Roof Bar

3	Hinge (heavy weight)	<a href="#">T4A3386</a>	US32D	MK
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## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Classroom Lock	45H7R 15H	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Threshold	1715A x Opening Width		PE
1	Gasketing	S88BL x Length as Required		PE
1	Sweep	18061CNB		PE

**Set: 16.0**

Doors: C102.1, C102.2, FC102.1, FC102.2

Description: Interior Entrance Vestibule (1.2)

1	Pivot Set	117-1/2	626	RF
1	Intermediate Pivot	M19	626	RF
1	Exit Device	DG1000	US32D	DO
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Electric Strike	310-1 x Straight Keeper FA3101-24VDC	630	FO ⚡
1	Door Pull	DP1004 x MABW/ JGL10		OT
1	Door Operator	4642 REG	AL	LC
1	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Threshold	1715A x Opening Width		PE
1	Wiring Diagram	provided by security integrator		
1	Actuator	8310-856T		LC
1	Power Supply	provided by security integrator		

Notes: Provide hardware removable mullion for doors C102.1 and C102.2.

-Door hardware specified is for bidding & design intent only. Verify the necessary hardware requirements with the architect, owner and security contractor before ordering/purchasing any hardware.

**Set: 17.0**

Doors: C605.1

Description: Elevator Lobby 6th Floor - Card Reader

2	Bottom Pivot	PV-ENDLOAD	Satin AL	GS
2	Stop	60131	626	RF
2	Magnetic Lock	MAG-SAM-1224VDC	US32D	GS ⚡
1	SALTO Electronic Trim	provided by security integrator		

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

2	Door Pull	RM3301 Mtg-Type 13HD	US32D	GS	
2	Concealed Closer	OHC-609-90NHO		GS	
2	Door Stop	RM850/ RM860 (where applicable)	US32D	RO	
1	Motion Sensor	XMS		SU	⚡
1	Push Button	EEB2		SU	⚡
1	Power Supply	provided by security integrator			

## Notes:

-Door hardware specified is for bidding & design intent only. Verify the necessary hardware requirements with the architect, owner and security contractor before ordering/purchasing any hardware.

-Coordinate all hardware with the aluminum storefront manufacturer/supplier.

-Provide necessary drop plates and fillers for proper installation of door closers.

-Provide blocking rings in thickness as required to fill gap, if any, between cylinder head and face of door.

-Verify finish of hardware.

**Set: 18.0**

Doors: 115.1, 115.2

Description: Brew - Pairs

2	Continuous Hinge	CFM_SLF-HD1 x Length Required		PE	
1	Mullion	KR9954 x Length as required	SP28	VD	
2	Rim Exit Device	98L 996L(Std)	US26D	VD	
3	Core	7 pin Best core per owner standard	626	BE	
3	Cylinder	as required	626	SC	
2	Door Closer	4040XP DEL SCUSH	AL	LC	
2	Door Stop	481/ 409 (where applicable)	US26D	RO	
1	Gasketing	provided by aluminum door manufacturer			

## Notes:

-Coordinate all hardware with the aluminum storefront manufacturer/supplier.

-Provide necessary drop plates and fillers for proper installation of door closers.

-Provide blocking rings in thickness as required to fill gap, if any, between cylinder head and face of door.

-Verify finish of hardware.

**Set: 18.1**

Doors: 115.3, 115.4

Description: Brew - Singles

1	Continuous Hinge	CFM_SLF-HD1 x Length Required		PE	
1	Rim Exit Device	98L 996L(Std)	US26D	VD	
1	Core	7 pin Best core per owner standard	626	BE	
1	Cylinder	as required	626	SC	
1	Door Closer	4040XP DEL SCUSH	AL	LC	
1	Door Stop	481/ 409 (where applicable)	US26D	RO	
1	Gasketing	provided by aluminum door manufacturer			



## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

## Notes:

- Coordinate all hardware with the aluminum storefront manufacturer/supplier.
- Provide necessary drop plates and fillers for proper installation of door closers.
- Provide blocking rings in thickness as required to fill gap, if any, between cylinder head and face of door.
- Verify finish of hardware.

**Set: 19.0**

Doors: 114.1, 114.2, 122.1, 122.2, 132.1, 132.2, 140, 202.1, 202.2, 212.1, 212.2, 214, 215.1, 215.2, 222.1, 222.2

Description: Interior Glass-Card Reader - (2.0)

1	Bottom Pivot	PV-ENDLOAD	Satin AL	GS	
1	Stop	60131	626	RF	
1	Magnetic Lock	MAG-SAM-1224VDC	US32D	GS	⚡
2	Door Pull	RM3301 Mtg-Type 13HD	US32D	GS	
1	Concealed Closer	OHC-609-90NHO		GS	
1	Door Stop	RM850/ RM860 (where applicable)	US32D	RO	
1	LENEL Card Reader	provided by security integrator			
1	Motion Sensor	XMS		SU	⚡
1	Push Button	EEB2		SU	⚡
1	Power Supply	provided by security integrator			

## Notes:

- Door hardware specified is for bidding & design intent only. Verify the necessary hardware requirements with the architect, owner and security contractor before ordering/purchasing any hardware.

## DESCRIPTION OF OPERATION:

- Door normally locked.
- Valid credential releases magnetic lock.
- Free egress at all times by motion sensor or push button.
- In case of power loss or fire alarm, door is unlocked.

**Set: 20.0**

Doors: 102.5, 201A, 202A

Description: Restaurant Wine/ Interview

1	Bottom Pivot	PV-ENDLOAD	Satin AL	GS
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## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Stop	60131	626	RF
2	Door Pull	RM3301 Mtg-Type 13HD	US32D	GS
1	Concealed Closer	OHC-609-90NHO		GS
1	Door Stop	RM850/ RM860 (where applicable)	US32D	RO

## Notes:

-Door hardware specified is for bidding & design intent only. Verify the necessary hardware requirements with the architect, owner and security contractor before ordering/purchasing any hardware.

**Set: 21.0**

Doors: 306.1, 306.2, 310.1, 310.2, 312.1, 312.2

Description: Classroom Single - Card Reader (3.1)

4	Hinge (heavy weight)	T4A3786	US26D	MK
1	Rim Exit Device	CD QEL RX 98NL-OP 110MD-NL	US26D	VD
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Pull	RM202	US32D	RO
1	Door Closer	4040XP DEL SCUSH	AL	LC
4	Silencer	608-RKW		RO
1	Electric Power Transfer	EPT10	SP28	VD ⚡
1	Position Switch	679-05HM		SH
1	Wiring Diagram	provided by security integrator		
1	LENEL Card Reader	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

## Operation Description:

Presenting valid credential to card reader retracts latch allowing authorized entry. Manual key override available at all times. During power failure or fire alarm doors remain closed and locked. Door can be manually dogged down by cylinder. Free egress at all times.

**Set: 22.0**

Doors: C004.1

Description: Corridor C004 - Card Reader

6	Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1	Mullion	KR9954 x Length as required	SP28	VD
1	Rim Exit Device	RX 98EO	US26D	VD
1	Rim Exit Device	QEL RX 98L-NL 996L-NL	US26D	VD

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
2	Door Closer	4040XP DEL SCUSH	AL	LC
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Mullion Gasketing	5110BL		PE
2	Silencer	608-RKW		RO
2	Electric Power Transfer	EPT10	SP28	VD ⚡
1	Position Switch	679-05HM		SH
1	Wiring Diagram	provided by security integrator		
1	LENEL Card Reader	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm doors remain closed and locked. Free egress at all times.

**Set: 23.0**

Doors: 026, 036

Description: Main Electrical/ Pump Room - Card Reader

6	Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1	Mullion	KR9954 x Length as required	SP28	VD
1	Fire Rated Rim Exit	QEL RX 98L-NL-F 996L-NL	US26D	VD
1	Fire Rated Rim Exit	RX 98EO-F	US26D	VD
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
2	Door Closer	4040XP DEL SCUSH	AL	LC
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Mullion Gasketing	5110BL		PE
1	Gasketing	S88BL x Length as Required		PE
2	Electric Power Transfer	EPT10	SP28	VD ⚡
2	Position Switch	679-05HM		SH
1	Wiring Diagram	provided by security integrator		
1	LENEL Card Reader	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm doors remain closed and locked. Free egress at all times.

**Set: 24.0**

Doors: 219

Description: Classroom Pair - Card Reader (3.2)

8	Hinge (heavy weight)	T4A3386	US32D	MK
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## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Surface Vert Rod Exit	CD RX 9827EO LBR	US26D	VD
1	Surface Vert Rod Exit	CD QEL RX 9827NL-OP LBR 110MD-NL	US26D	VD
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
2	Pull	RM202	US32D	RO
2	Door Closer	4040XP DEL SCUSH	AL	LC
2	Silencer	608-RKW		RO
1	Wiring Diagram	provided by security integrator		
1	LENEL Card Reader	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader retracts latch allowing authorized entry. Manual key override available at all times. During power failure or fire alarm doors remain closed and locked. Doors can be manually dogged down by cylinder. Free egress at all times.

**Set: 25.0**

Doors: 024

Description: Fire Pump - Card Reader

3	Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1	Fire Rated Rim Exit	QEL RX 98L-NL-F 996L-NL	US26D	VD
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Gasketing	S88BL x Length as Required		PE
1	Electric Power Transfer	EPT10	SP28	VD ⚡
1	Position Switch	679-05HM		SH
1	Wiring Diagram	provided by security integrator		
1	LENEL Card Reader	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm door remains closed and locked. Free egress at all times.

**Set: 26.0**

Doors: C002

Description: Corridor Double Egress - Card Reader

6	Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1	Magnetic Lock	M680EBD	628	SU ⚡
2	Fire Rated Surf Vert Rod	9827EO-F LBR	US26D	VD
2	Door Closer	4040XP DEL SCUSH	AL	LC



## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

2	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Astragal	S772BL		PE
2	Silencer	608-RKW		RO
1	Position Switch	679-05HM		SH
1	Wiring Diagram	provided by security integrator		
1	LENEL Card Reader	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

Doors are normally closed and locked. Presenting valid credentials to card reader unlocks mag locks allowing authorized entry. During fire alarm or power failure magnetic locks will unlock (fail safe) allowing free ingress/egress

**Set: 27.0**

Doors: C403, C503, C603, C607

Description: Corridor Double Egress/ Rated - Card Reader

6	Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1	Magnetic Lock	M680EBD	628	SU ⚡
2	Fire Rated Surf Vert Rod	9827EO-F LBR	US26D	VD
2	Door Closer	4040XP DEL SCUSH	AL	LC
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Gasketing	S88BL x Length as Required		PE
1	Astragal	S772BL		PE
1	Position Switch	679-05HM		SH
1	SALTO Card Reader	provided by security integrator		
1	Wiring Diagram	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

Doors are normally closed and locked. Presenting valid credentials to card reader unlocks mag locks allowing authorized ingress/egress. During fire alarm or power failure magnetic locks will unlock (fail safe) allowing free ingress/egress.

**Set: 28.0**

Doors: 036A

Description: Generator - FEMA

6	Hinge	SP3786	US26D	MK
1	Removable Mullion	12-HC980	PC	SA
1	Multipoint Exit Device	12 70 FM8706 ETL	US32D	SA
1	Multipoint Exit Device	12 FM8710	US32D	SA
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

2	Door Closer	TB 281 P10/ O10	EN	SA
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
2	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Threshold	1715A x Opening Width		PE
1	Gasketing	S773D (Head & Jambs)		PE
1	Astragal	18041CNB x Door Height		PE

## Notes:

Cutout threshold so bottom strike can be mounted to concrete floor and not on the threshold.

**Set: 29.0**

Doors: V405, V406, V505, V506, V605, V606

Description: Stair - Single Card Reader (11.1)

3	Hinge (heavy weight)	T4A3386	US32D	MK
1	Fire Rated Rim Exit	RX 98L-NL-F E 996L-NL FS	US26D	VD
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Gasketing	S88BL x Length as Required		PE
1	Electric Power Transfer	EPT10	SP28	VD ⚡
1	Position Switch	679-05HM		SH
1	SALTO Card Reader	provided by security integrator		
1	Wiring Diagram	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

## Operation Description:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm door is unlocked. Free egress at all times.

**Set: 30.0**

Doors: FC104

Description: Vendor Backhouse Pair

8	Hinge (heavy weight)	T4A3386	US32D	MK
2	Surface Vert Rod Exit	9827L LBR 996L(Std)	US26D	VD
2	Core	7 pin Best core per owner standard	626	BE
2	Cylinder	as required	626	SC

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

2	Door Closer	4040XP DEL REG/ PA	AL	LC
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
2	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Astragal	S772BL		PE
2	Silencer	608-RKW		RO

**Set: 31.0**

Doors: 102.1

Description: Restaurant Entry - (13.0)

1	Bottom Pivot	PV-ENDLOAD	Satin AL	GS
1	Stop	60131	626	RF
1	Exit Device	DG1000	US32D	DO
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Pull	DP1004 x MABW/ JGL10		OT
1	Concealed Closer	OHC-609-90NHO		GS
1	Door Stop	RM850/ RM860 (where applicable)	US32D	RO

## Notes:

-Door hardware specified is for bidding & design intent only. Verify the necessary hardware requirements with the architect, owner and security contractor before ordering/purchasing any hardware.

**Set: 32.0**

Doors: FC103

Description: Vendor Backhouse Single

4	Hinge (heavy weight)	T4A3386	US32D	MK
1	Rim Exit Device	98L 996L(Std)	US26D	VD
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
4	Silencer	608-RKW		RO

AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

**Set: 33.0**

Doors: C405, C505, C604

Description: Kitchen Vestibule/ Service Elevator Vestibule - Card Reader

6 Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1 Mullion	KR9954 x Length as required	SP28	VD
1 Fire Rated Rim Exit	QEL RX 98L-NL-F 996L-NL	US26D	VD
1 Fire Rated Rim Exit	RX 98EO-F	US26D	VD
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
2 Door Closer	4040XP DEL REG/ PA	AL	LC
2 Kick Plate	K1050 10" BEV CSK	US26D	RO
2 Door Stop	481/ 409 (where applicable)	US26D	RO
1 Mullion Gasketing	5110BL		PE
1 Gasketing	S88BL x Length as Required		PE
2 Electric Power Transfer	EPT10	SP28	VD ⚡
2 Position Switch	679-05HM		SH
1 SALTO Card Reader	provided by security integrator		
1 Wiring Diagram	provided by security integrator		
1 Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm door remains closed and locked. Free egress at all times.

**Set: 34.0**

Doors: FC001, FV001, FV101, V106.1, V205, V206, V305, V306

Description: Stair - Pair (11.2)

8 Hinge (heavy weight)	T4A3386	US32D	MK
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## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

2	Fire Rated Surf Vert Rod (lever, passage)	9827L-BE-F LBR 996L-BE	US26D	VD
2	Door Closer	4040XP DEL REG/ PA	AL	LC
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
2	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Gasketing	S88BL x Length as Required		PE
1	Astragal	S772BL		PE

**Set: 35.0**

Doors: C203, C303

Description: Elevator Lobby/ Rated - Magnetic Hold Open (21.0)

10	Hinge (heavy weight)	T4A3386	US32D	MK
2	Fire Rated Surf Vert Rod (lever, passage)	9827L-BE-F LBR 996L-BE	US26D	VD
2	Door Closer	4040XP DEL REG/ PA	AL	LC
2	Door Stop	481/ 409 (where applicable)	US26D	RO
2	Electromagnetic Holder	994M	689	RF ⚡
1	Gasketing	S88BL x Length as Required		PE
1	Astragal	S772BL		PE

## Notes:

Doors normally held open. During fire alarm magnetic holders release allowing doors to close. Free ingress and egress at all times.

**Set: 36.0**

Doors: C406, C506

Description: Elevator Lobby - Magnetic Hold Open (21.0)

6	Hinge (heavy weight)	T4A3386	US32D	MK
2	Fire Rated Surf Vert Rod (lever, passage)	9827L-BE-F LBR 996L-BE	US26D	VD
2	Door Closer	4040XP DEL REG/ PA	AL	LC
2	Door Stop	481/ 409 (where applicable)	US26D	RO
2	Electromagnetic Holder	994M	689	RF ⚡
1	Gasketing	S88BL x Length as Required		PE
1	Astragal	S772BL		PE

## Notes:

Doors normally held open. During fire alarm magnetic holders release allowing doors to close. Free ingress and egress at all times.

AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

**Set: 37.0**

Doors: 010

Description: Elevator Mechanical - Card Reader

3	Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1	Access Control Mort Lock	45HM7DEU 15PH	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Gasketing	S88BL x Length as Required		PE
1	Electric Power Transfer	EPT10	SP28	VD ⚡
1	Position Switch	679-05HM		SH
1	Wiring Diagram	provided by security integrator		
1	LENEL Card Reader	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm door remains closed and locked. Free egress at all times.

AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

**Set: 38.0**

Doors: 133, 220.1, 233, 333

Description: AHU/ Studio - Card Reader (6.2)

8 Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1 Dust Proof Strike	570	US26D	RO
1 Flush Bolt	2842 / 2962 (As Required)	US26D	RO
1 Access Control Mort Lock	45HM7DEU 15PH	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Coordinator	2600 Series x Wear Plates	Black	RO
2 Mounting Bracket	2601AB/ C (Type as Required)	Black	RO
2 Door Closer	4040XP DEL REG/ PA	AL	LC
2 Kick Plate	K1050 10" BEV CSK	US26D	RO
2 Door Stop	481/ 409 (where applicable)	US26D	RO
1 Astragal	357SP x Door Height		PE
2 Silencer	608-RKW		RO
1 Electric Power Transfer	EPT10	SP28	VD ⚡
2 Position Switch	679-05HM		SH
1 Wiring Diagram	provided by security integrator		
1 LENEL Card Reader	provided by security integrator		
1 Power Supply	provided by security integrator		

**Notes:**

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm doors remain closed and locked. Free egress at all times.

AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

**Set: 39.1**

Doors: 505

Description: AHU Rated - Card Reader (6.2)

6 Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1 Flush Bolt	2845 / 2945 (As Required)	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Access Control Mort Lock	45HM7DEU 15PH	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Coordinator	2600 Series x Wear Plates	Black	RO
2 Mounting Bracket	2601AB/ C (Type as Required)	Black	RO
2 Door Closer	4040XP DEL REG/ PA	AL	LC
2 Kick Plate	K1050 10" BEV CSK	US26D	RO
2 Door Stop	481/ 409 (where applicable)	US26D	RO
1 Gasketing	S88BL x Length as Required		PE
1 Astragal	357SP x Door Height		PE
1 Electric Power Transfer	EPT10	SP28	VD ⚡
2 Position Switch	679-05HM		SH
1 SALTO Card Reader	provided by security integrator		
1 Wiring Diagram	provided by security integrator		
1 Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm doors remain closed and locked. Free egress at all times.

AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

**Set: 39.2**

Doors: C006.2

Description: Vestibule - Card Reader (6.2)

6 Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1 Flush Bolt	2845 / 2945 (As Required)	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Access Control Mort Lock	45HM7DEU 15PH	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Coordinator	2600 Series x Wear Plates	Black	RO
2 Mounting Bracket	2601AB/ C (Type as Required)	Black	RO
2 Door Closer	4040XP DEL REG/ PA	AL	LC
2 Kick Plate	K1050 10" BEV CSK	US26D	RO
2 Door Stop	481/ 409 (where applicable)	US26D	RO
1 Gasketing	S88BL x Length as Required		PE
1 Astragal	357SP x Door Height		PE
1 Electric Power Transfer	EPT10	SP28	VD ⚡
2 Position Switch	679-05HM		SH
1 Wiring Diagram	provided by security integrator		
1 LENEL Card Reader	provided by security integrator		
1 Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm doors remain closed and locked. Free egress at all times.

AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

**Set: 40.1**

Doors: 405.1, 405.2, 405.3, 611.1, 611.5, 611.6

Description: Control/ IDF/ Electrical/ Vendors/ Service Vestibule/ Mechanical - Card Reader

3 Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1 Access Control Mort Lock	45HM7DEU 15PH	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Door Closer	4040XP DEL REG/ PA	AL	LC
1 Kick Plate	K1050 10" BEV CSK	US26D	RO
1 Door Stop	481/ 409 (where applicable)	US26D	RO
1 Gasketing	S88BL x Length as Required		PE
1 Electric Power Transfer	EPT10	SP28	VD ⚡
1 Position Switch	679-05HM		SH
1 SALTO Card Reader	provided by security integrator		
1 Wiring Diagram	provided by security integrator		
1 Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm door remains closed and locked. Free egress at all times.

**Set: 40.2**

Doors: C606

Description: Fitness - Card Reader

3 Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1 Access Control Mort Lock	45HM7DEU 15PH	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC



## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Gasketing	S88BL x Length as Required		PE
1	Electric Power Transfer	EPT10	SP28	VD ⚡
1	Position Switch	679-05HM		SH
1	SALTO Card Reader	provided by security integrator		
1	Wiring Diagram	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm door remains closed and locked. Free egress at all times.

**Set: 41.1**

Doors: [112](#), [131](#), [225](#), [231](#), [331](#), [F001](#), [F003](#), [F007](#), [F009](#)

Description: IDF/ Electrical/ SVR - Card Reader (6.1)

4	Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1	Access Control Mort Lock	45HM7DEU 15PH	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Gasketing	S88BL x Length as Required		PE
1	Electric Power Transfer	EPT10	SP28	VD ⚡
1	Position Switch	679-05HM		SH
1	Wiring Diagram	provided by security integrator		
1	LENEL Card Reader	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm door remains closed and locked. Free egress at all times.

**Set: 41.2**

Doors: [F101](#), [F105](#), [F107](#), [F108](#), [F109](#), [F112](#), [F115](#), [F119](#), [F121](#), [F124](#)

Description: Vendors

4	Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1	Classroom Lock	45H7R 15H	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Gasketing	S88BL x Length as Required		PE

**Set: 42.0**

Doors: 054

Description: Dry Storage

6	Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1	Dust Proof Strike	570	US26D	RO
2	Flush Bolt	555 / 557 (As Required)	US26D	RO
1	Storeroom Lock	45H7D 15H	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
2	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Astragal	357SP x Door Height		PE
2	Silencer	608-RKW		RO

**Set: 43.0**

Doors: 701

Description: Roof Shed

6	Hinge	TA2714	US26D	MK
1	Flush Bolt	2845 / 2945 (As Required)	US26D	RO
1	Dust Proof Strike	570	US26D	RO
1	Storeroom Lock	45H7D 15H	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Coordinator	2600 Series x Wear Plates	Black	RO
1	Mounting Bracket	2601AB/ C (Type as Required)	Black	RO
2	Door Closer	4040XP DEL REG/ PA	AL	LC
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
2	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Gasketing	S88BL x Length as Required		PE



## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1 Astragal 357SP x Door Height PE

**Set: 44.0**

Doors: 611.2

Description: Work Room Storage

3 Hinge	TA2714	US26D	MK
1 Storeroom Lock	45H7D 15H	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Door Stop	481/ 409 (where applicable)	US26D	RO
3 Silencer	608-RKW		RO

**Set: 45.0**

Description: Office - NOT USED

3 Hinge	TA2714	US26D	MK
1 Office Lock	45H7A 15H	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Door Stop	481/ 409 (where applicable)	US26D	RO
3 Silencer	608-RKW		RO

**Set: 46.0**

Doors: 002.3, 055, 056

Description: Office Rated

3 Hinge (heavy weight)	T4A3386	US32D	MK
1 Office Lock	45H7A 15H	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Door Closer	4040XP DEL REG/ PA	AL	LC
1 Door Stop	481/ 409 (where applicable)	US26D	RO
1 Gasketing	S88BL x Length as Required		PE

**Set: 47.0**

Doors: 306A, 310A, 324F

Description: Office Storage/ Class Room Storage

4 Hinge	TA2714	US26D	MK
1 Storeroom Lock	45H7D 15H	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Door Stop	481/ 409 (where applicable)	US26D	RO

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

4 Silencer 608-RKW RO

**Set: 48.0**

Doors: 212B, 238M

Description: Storage - Overhead Stop

4 Hinge	TA2714	US26D	MK
1 Storeroom Lock	45H7D 15H	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Overhead Stop	100 series	US32D	GJ
3 Silencer	608-RKW		RO

**Set: 49.0**

Doors: 002.4, 007, 020, 041, F005, F011, 043

Description: Storage/ Liquid/ Paper/ Janitor/ Dryer/ Custodial

3 Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1 Storeroom Lock	45H7D 15H	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Door Closer	4040XP DEL REG/ PA	AL	LC
1 Kick Plate	K1050 10" BEV CSK	US26D	RO
1 Door Stop	481/ 409 (where applicable)	US26D	RO
3 Silencer	608-RKW		RO

**Set: 50.0**

Doors: 117, 133A, 233A, 333A

Description: Electrical/ Fire

4 Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1 Storeroom Lock	45H7D 15H TAC/O	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Door Closer	4040XP DEL REG/ PA	AL	LC
1 Kick Plate	K1050 10" BEV CSK	US26D	RO
1 Door Stop	481/ 409 (where applicable)	US26D	RO
3 Silencer	608-RKW		RO

**Set: 51.0**

Doors: 716

Description: Pool Equipment - Card Reader

3 Hinge (heavy weight)	T4A3386 NRP	US32D	MK
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## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Access Control Mort Lock	45HM7DEU 15PH	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Gasketing	S88BL x Length as Required		PE
1	Electric Power Transfer	EPT10	SP28	VD ⚡
1	Position Switch	679-05HM		SH
1	SALTO Card Reader	provided by security integrator		
1	Wiring Diagram	provided by security integrator		
1	Power Supply	provided by security integrator		

## Notes:

Presenting valid credential to card reader unlocks trim allowing authorized entry. Manual key override available at all times. During power failure or fire alarm door remains closed and locked. Free egress at all times.

**Set: 52.0**

Doors: 135, 235, 335

Description: Custodial - 1st floor/ 2nd Floor/ 3rd Floor

4	Hinge (heavy weight)	T4A3386	US32D	MK
1	Storeroom Lock	45H7D 15H	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Mop Plate	K1050 4" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Gasketing	S88BL x Length as Required		PE

**Set: 53.0**

Doors: 110B, 238A, 238B, 238E, 238G, 238H, 238K, 238L, 238P, 322, 324H, 324J, 324K, 324L, 324M, 324N, 324Q, 324R, 324S, 324T, 327, 611.3, 611.4

Description: Office (8.1)

4	Hinge	TA2714	US26D	MK
1	Office Lock	45H7A 15H	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Stop	481/ 409 (where applicable)	US26D	RO
3	Silencer	608-RKW		RO

**Set: 54.0**

Doors: 324.2

Description: Office Area

4	Hinge (heavy weight)	T4A3386 NRP	US32D	MK
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## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1 Classroom Lock	45H7R 15H	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Door Closer	4040XP DEL REG/ PA	AL	LC
1 Kick Plate	K1050 10" BEV CSK	US26D	RO
1 Door Stop	481/ 409 (where applicable)	US26D	RO
3 Silencer	608-RKW		RO

**Set: 55.0**

Doors: 003, 005, 012.2, 014, 016.2, 613, 615

Description: Single Restrooms/ Lactation Room (9.0)

3 Hinge	TA2714	US26D	MK
1 Privacy Set	45H0L 15H VIN	626	BE
1 Door Closer	4040XP DEL REG/ PA	AL	LC
1 Kick Plate	K1050 10" BEV CSK	US26D	RO
1 Mop Plate	K1050 4" BEV CSK	US26D	RO
1 Door Stop	481/ 409 (where applicable)	US26D	RO
1 Gasketing	S88BL x Length as Required		PE
1 Coat Hook	RM802	US26D	RO

**Set: 56.0**

Doors: 417, 517

Description: Ice

3 Hinge (heavy weight)	T4A3386	US32D	MK
1 Passage Set	45H0N 15H	626	BE
1 Door Closer	4040XP DEL REG/ PA	AL	LC
1 Kick Plate	K1050 10" BEV CSK	US26D	RO
1 Door Stop	481/ 409 (where applicable)	US26D	RO
1 Gasketing	S88BL x Length as Required		PE

**Set: 57.0**

Doors: 324.1

Description: Reception

8 Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1 Dust Proof Strike	570	US26D	RO
1 Flush Bolt	555 / 557 (As Required)	US26D	RO

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Mortise Deadlock	48H7R	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
2	Push Plate	70C-RKW	US26D	RO
2	Door Pull	RM3310 Mtg-Type 12XHD	US32D	RO
2	Door Closer	4040XP DEL REG/ PA	AL	LC
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Astragal	S772BL		PE
2	Silencer	608-RKW		RO

**Set: 58.0**

Doors: 710, 712

Description: Multiple Stall Restroom - (10.0)

3	Hinge (heavy weight)	T4A3386	US32D	MK
1	Mortise Deadlock	48H7R	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Push Plate	70C-RKW	US26D	RO
1	Pull Plate	110x70C	US26D	RO
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Mop Plate	K1050 4" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
3	Silencer	608-RKW		RO

**Set: 59.0**

Doors: 324B

Description: Office Work Room

4	Hinge	TA2714	US26D	MK
1	Classroom Lock	45H7R 15H	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Stop	481/ 409 (where applicable)	US26D	RO
3	Silencer	608-RKW		RO

**Set: 60.0**

Doors: 714.1

Description: Roof Catering - Card Reader

3	Hinge (heavy weight)	T4A3386	US32D	MK
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## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Access Control Mort Lock	45HM7DEU 15PH	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
3	Silencer	608-RKW		RO
1	Electric Power Transfer	EPT10	SP28	VD ⚡
1	Position Switch	679-05HM		SH
1	SALTO Card Reader	provided by security integrator		
1	Wiring Diagram	provided by security integrator		
1	Power Supply	provided by security integrator		

**Set: 61.0**

Doors: 119

Description: Valet

4	Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1	Classroom Lock	45H7R 15H	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
3	Silencer	608-RKW		RO

**Set: 62.0**

Doors: 012.1, 016.1, 018

Description: Break Room/ Men + Women's Locker Rooms

3	Hinge (heavy weight)	T4A3386	US32D	MK
1	Classroom Lock	45H7R 15H	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Gasketing	S88BL x Length as Required		PE

**Set: 63.0**

Doors: 110.2

Description: Restaurant Dish

4	Hinge (heavy weight)	T4A3386 NRP	US32D	MK
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## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1 Classroom Lock	45H7R 15H	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Door Closer	4040XP DEL SCUSH	AL	LC
1 Kick Plate	K1050 10" BEV CSK	US26D	RO
1 Gasketing	S88BL x Length as Required		PE

**Set: 64.0**

Doors: 220.2

Description: Studio

4 Hinge (heavy weight)	T4A3386	US32D	MK
1 Entry Lock	45H7CHB 15H	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Door Closer	4040XP DEL SCUSH	AL	LC
1 Kick Plate	K1050 10" BEV CSK	US26D	RO
3 Silencer	608-RKW		RO

**Set: 65.0**

Doors: 334, F134

Description: Single Restrooms/ Lactation Room - Academic Levels (9.0) - taller doors

4 Hinge	TA2714	US26D	MK
1 Privacy Set	45H0L 15H VIN	626	BE
1 Door Closer	4040XP DEL REG/ PA	AL	LC
1 Kick Plate	K1050 10" BEV CSK	US26D	RO
1 Mop Plate	K1050 4" BEV CSK	US26D	RO
1 Door Stop	481/ 409 (where applicable)	US26D	RO
1 Gasketing	S88BL x Length as Required		PE
1 Coat Hook	RM802	US26D	RO

**Set: 66.0**

Doors: 301, 302, 304

Description: Interview/ Study

4 Hinge	TA2714	US26D	MK
1 Passage Set	45H0N 15H	626	BE
1 Door Stop	481/ 409 (where applicable)	US26D	RO
1 Gasketing	S88BL x Length as Required		PE

**Set: 67.0**

Doors: 002.1, 002.2

Description: Laundry

2 Continuous Hinge	MCK-14HD	CL	MK
1 Dust Proof Strike	570	US26D	RO
2 Flush Bolt	555 / 557 (As Required)	US26D	RO
1 Mortise Deadlock	48H7R	626	BE

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
2	Push Plate	70C-RKW	US26D	RO
2	Pull	RM202	US32D	RO
2	Door Closer	4040XP DEL REG/ PA	AL	LC
2	Mop Plate	K1050 4" BEV CSK	US26D	RO
2	Armor Plate	K1050 36" CSK BEV	US32D	RO
2	Door Stop	481/ 409 (where applicable)	US26D	RO
2	Astragal	305CN		PE
2	Silencer	608-RKW		RO

**Set: 68.0**

Doors: 101.1, 101.2, 137, 139, 223.1, 223.2, 237, 239, 337, 339, F130, F132

Description: Multiple Stall Restroom/ Dish Wash- (10.0)

4	Hinge (heavy weight)	T4A3386	US32D	MK
1	Mortise Deadlock	48H7R	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	Push Plate	70C-RKW	US26D	RO
1	Pull Plate	110x70C	US26D	RO
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Mop Plate	K1050 4" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
4	Silencer	608-RKW		RO

**Set: 69.0**

Doors: C003

Description: Vestibule C003

6	Hinge (heavy weight)	T4A3386	US32D	MK
1	Dust Proof Strike	570	US26D	RO
2	Flush Bolt	555 / 557 (As Required)	US26D	RO
1	Deadbolt	8T37S	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
2	Push Plate	70C-RKW	US26D	RO
2	Pull	RM202	US32D	RO
2	Door Closer	4040XP DEL SCUSH	AL	LC
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Astragal	S772BL		PE



## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

2	Silencer	608-RKW		RO
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**Set: 70.0**Doors: [623.1](#), [623.2](#)

Description: Service Kitchen

3	Hinge (heavy weight)	T4A3386	US32D	MK
1	Push Plate	70C-RKW	US26D	RO
1	Pull Plate	110x70C	US26D	RO
1	Door Closer	4040XP DEL SCUSH	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Mop Plate	K1050 4" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
3	Silencer	608-RKW		RO

**Set: 71.0**Doors: [121](#)

Description: Ice

4	Hinge (heavy weight)	T4A3386	US32D	MK
1	Push Plate	70C-RKW	US26D	RO
1	Pull Plate	110x70C	US26D	RO
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
3	Silencer	608-RKW		RO

**Set: 72.0**Doors: [212A](#)

Description: Wash - Hold Open

4	Hinge (heavy weight)	T4A3386	US32D	MK
1	Push Plate	70C-RKW	US26D	RO
1	Pull Plate	110x70C	US26D	RO
1	Door Closer	4040XP H	AL	LC
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Mop Plate	K1050 4" BEV CSK	US26D	RO
3	Silencer	608-RKW		RO

**Set: 73.0**Doors: [414.4](#), [418.4](#), [424.4](#), [426.4](#), [432.4](#), [514.4](#), [518.4](#), [524.4](#), [526.4](#), [532.4](#)

Description: Bedroom Pair Rated - Type DS

2	Hinge	TA2714	US10B	MK
4	Hinge (spring)	1502	US10B	MK
1	Flush Bolt	2842 / 2962 (As Required)	US10B	RO

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Dust Proof Strike	570	US10B	RO
1	Privacy Set	5210 x Helios Lever x Square Rosette	US10B	ET
1	Coordinator	NX2600 Series x Wear Plates	Black	RO
1	Door Stop	RM850/ RM860 (where applicable)	US10B	RO
1	Door Stop	456-RKW	US10B	RO
1	Gasketing	S88BL x Length as Required		PE
1	Astragal	S772BL		PE

**Set: 74.0**

Doors: 414.2, 414.7, 418.2, 418.7, 424.2, 424.7, 426.2, 426.7, 432.2, 432.5, 432.6, 511.2, 514.2, 514.7, 518.2, 518.7, 524.2, 524.7, 526.2, 526.7, 532.2, 532.7

Description: Guestroom Powder Room/ Bathroom (27.0) - Type SL/2, SL/3

3	Hinge	TA2714	US10B	MK
1	Privacy Set	5210 x Helios Lever x Square Rosette	US10B	ET
1	Door Stop	RM850/ RM860 (where applicable)	US10B	RO
3	Silencer	608-RKW		RO

**Set: 75.0**

Doors: 401.1, 408.1, 501.1, 508.1, 601.1, 608.1

Description: Leased Unit Entry Pair - Hotel RFID

6	Hinge	TA2714	US10B	MK
1	Flush Bolt	2842 / 2962 (As Required)	US10B	RO
1	Dust Proof Strike	570	US10B	RO
1	Cylinder	as required	626	SC
1	SALTO Electronic Lock	provided by security integrator		
1	Coordinator	2600 Series x Wear Plates	Black	RO
2	Door Closer	4040XP DEL REG/ PA	DKBRZ	LC
2	Door Stop	RM850/ RM860 (where applicable)	US10B	RO
1	Gasketing	S88BL x Length as Required		PE
1	Astragal	357D x Door Height		PE
1	Viewer	627	CRM	RO
1	Privacy Latch	PDL	DCRM	RO

**Set: 76.0**

Doors: 411.1, 413.1, 414.1, 415.1, 418.1, 422.1, 425.1, 426.1, 427.1, 429.1, 431.1, 432.1, 433.1, 511.1, 513.1, 514.1, 515.1, 518.1, 524.1, 525.1, 526.1, 527.1, 529.1, 531.1, 532.1, 533.1

Description: Guestroom Entry - Hotel RFID - Type SK

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
& NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

3	Hinge	TA2714	US10B	MK
1	Core	7 pin Best core per owner standard	626	BE
1	Cylinder	as required	626	SC
1	SALTO Electronic Lock	provided by security integrator		
1	Door Closer	4040XP DEL REG/ PA	DKBRZ	LC
1	Door Stop	RM850/ RM860 (where applicable)	US10B	RO
1	Gasketing	S88BL x Length as Required		PE
1	Viewer	627	CRM	RO
1	Privacy Latch	PDL	DCRM	RO

## Notes:

2 Viewers at ADA compliant rooms.

**Set: 77.0**

Doors: 414.5, 418.5, 424.5, 426.5, 432.3, 514.5, 518.5, 524.5, 526.5, 532.5

Description: Hotel Closet Door - Pair (28.2) - Type DL

6	Hinge	TA2714	US10B	MK
2	Dummy Set	5050 x Helios Lever x Square Rosette	US10B	ET
2	Door Stop	RM850/ RM860 (where applicable)	US10B	RO
2	Silencer	608-RKW		RO
2	Ball Catch	8802	US10B	ET

**Set: 78.0**

Doors: 411.3, 413.3, 414.3, 415.3, 418.3, 424.3, 425.3, 426.3, 427.3, 429.3, 431.3, 433.3, 511.3, 513.3, 514.3, 515.3, 518.3, 524.3, 525.3, 526.3, 527.3, 529.3, 531.3, 532.3, 533.3

Description: Hotel Closet Door - Single (28.1) - Type SL- 1

3	Hinge	TA2714	US10B	MK
1	Dummy Set	5050 x Helios Lever x Square Rosette	US10B	ET
1	Door Stop	RM850/ RM860 (where applicable)	US10B	RO
3	Silencer	608-RKW		RO
1	Ball Catch	8802	US10B	ET

**Set: 79.0**

Doors: 411.2, 413.2, 414.6, 415.2, 418.6, 424.6, 425.2, 426.6, 427.2, 429.2, 431.2, 433.2, 513.2, 514.6, 515.2, 518.6, 524.6, 525.2, 526.6, 527.2, 529.2, 531.2, 532.6, 533.2

Description: Bathroom Surface Slider (26.0) - Type SM

1	Sliding System	DSG-FT-05BZ x Length Required		PE
1	Flush Pull	RM780	US26D	RO
1	Door Pull	RM3301-12	US10B	RO

**Set: 80.0**

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

Doors: 401.13, 408.13, 501.13, 508.13, 601.13, 608.13

Description: Suite - Exterior Balcony

1	Continuous Hinge	DFM_SLF-HD1 x Length Required		PE
1	Deadbolt	8T37KL	613	BE
2	Door Pull	RM3310-12	US10B	RO
1	Door Closer	4040XP DEL REG/ PA	DKBRZ	LC
1	Door Stop	RM850/ RM860 (where applicable)	US10B	RO
1	Threshold	171D x Opening Width		PE
1	Gasketing	provided by aluminum door manufacturer		

## Notes:

-Door hardware specified is for bidding & design intent only. Verify the necessary hardware requirements with the architect, and owner before ordering/purchasing any hardware.

**Set: 81.0**

Doors: 646.2, 646.3, 646.5, 646.6, 647.2, 647.3, 647.5, 659, 668.2

Description: Spa Restrooms/ Showers

3	Hinge	TA2314	US26D	MK
1	Privacy Set	5212 x Freestone x Rectangular Rosette		US15 ET
1	Door Stop	RM850/ RM860 (where applicable)	US32D	RO
3	Silencer	608-RKW		RO

**Set: 82.0**

Doors: 636.1, 656, 657, 660, 662, 663.1, 665, 668.1

Description: Spa Treatment/ Couples/ Manager/ Mani Pedi (31.0 - 32.0 - 33.0)

3	Hinge	TA2714	US26D	MK
1	Passage Set	5112 x Freestone x Rectangular Rosette		US15 ET
1	Door Stop	RM850/ RM860 (where applicable)	US32D	RO
3	Silencer	608-RKW		RO

**Set: 83.0**

Doors: 646.4, 647.4

Description: Spa Sanua

3	Hinge	TA2314	US26D	MK
1	Push Plate	70C-RKW	US26D	RO
1	Door Pull	RM3301-12	US32D	RO
1	Door Closer	4040XP DEL REG/ PA	AL	LC
1	Door Stop	RM850/ RM860 (where applicable)	US32D	RO
1	Gasketing	S88BL x Length as Required		PE

**Set: 84.0**

Doors: 636.2, 652, 663.2



## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

Description: Spa - Robes/ Storage/ Steam Equipment

6	Hinge	<a href="#">T4A3786</a>	US26D	MK
2	Dummy Set	5052 x Freestone x Rectangular Rosette	US15	ET
2	Roller Latch	<a href="#">594</a>	US26D	RO
2	Door Stop	<a href="#">RM850/ RM860 (where applicable)</a>	US32D	RO
2	Silencer	<a href="#">608-RKW</a>		RO

**Set: 85.0**

Doors: C605.2

Description: Spay Entry (30.0)

6	Hinge (heavy weight)	<a href="#">T4A3786</a>	US26D	MK
1	Dust Proof Strike	<a href="#">570</a>	US26D	RO
2	Flush Bolt	<a href="#">555 / 557 (As Required)</a>	US26D	RO
1	Deadbolt	<a href="#">8T37S</a>	626	BE
1	Core	7 pin Best core per owner standard	626	BE
2	Push Plate	<a href="#">70C-RKW</a>	US26D	RO
2	Lucite Grip Handle Pull	GH-ACR-DWL-CAP-36 x Polished White Bronze		OT
2	Door Closer	<a href="#">4040XP DEL SCUSH</a>	AL	LC
2	Door Stop	<a href="#">RM850/ RM860 (where applicable)</a>	US32D	RO
2	Silencer	<a href="#">608-RKW</a>		RO

Notes:

-Door hardware specified is for bidding & design intent only. Verify the necessary hardware requirements with the architect, and owner before ordering/purchasing any hardware.

**Set: 86.0**

Doors: [C608](#), [C611](#)

Description: Spa Circulation (30.0)

3	Hinge (heavy weight)	<a href="#">T4A3786</a>	US26D	MK
1	Deadbolt	<a href="#">8T37S</a>	626	BE
1	Core	7 pin Best core per owner standard	626	BE
1	Push Plate	<a href="#">70C-RKW</a>	US26D	RO
1	Lucite Grip Handle Pull	GH-ACR-DWL-CAP-36 x Polished White Bronze		OT
1	Door Closer	<a href="#">4040XP DEL SCUSH</a>	AL	LC
1	Door Stop	<a href="#">RM850/ RM860 (where applicable)</a>	US32D	RO

## AUBURN UNIVERSITY

TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

3 Silencer 608-RKW RO

**Set: 87.0**

Doors: 654

Description: Spa - Dirty Laundry

3 Hinge (heavy weight)	T4A3386	US32D	MK
1 Storeroom Lock	45H7D 15H	626	BE
1 Core	7 pin Best core per owner standard	626	BE
1 Cylinder	as required	626	SC
1 Door Closer	4040XP DEL REG/ PA	AL	LC
1 Kick Plate	K1050 10" BEV CSK	US26D	RO
1 Door Stop	481/ 409 (where applicable)	US26D	RO
3 Silencer	608-RKW		RO

**Set: 88.0**

Doors: 646.1, 647.1, 648

Description: Spa Locker Room/ Relaxation Room (34.0)

3 Hinge (heavy weight)	T4A3786	US26D	MK
1 Push Plate	70C-RKW	US26D	RO
1 Lucite Grip Handle Pull	GH-ACR-DWL-CAP-18 x Polished White Bronze		OT
1 Door Closer	4040XP DEL REG/ PA	AL	LC
1 Door Stop	RM850/ RM860 (where applicable)	US32D	RO
3 Silencer	608-RKW		RO

**Set: 89.0**

Doors: C006.1

Description: FEMA - RATED- PAIR: / Vestibule C006

8 Hinge	SP3786	US26D	MK
2 Surface Bolt	988	Bright Zinc	SA
1 Multi-Point Lock	FM7324 OL	US32D	SA
1 Door Closer	TB 281 P10/ O10	EN	SA
2 Kick Plate	K1050 10" BEV CSK	US26D	RO
2 Door Stop	481/ 409 (where applicable)	US26D	RO
1 Threshold	1715A x Opening Width		PE
1 Gasketing	S773D (Head & Jambs)		PE
2 Astragal	18041CNB x Door Height		PE

## Notes:

Cutout threshold so bottom strike can be mounted directly to the concrete floor and not to the threshold.  
 Doors to swing 180 degree.

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TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

**Set: 90.0**

Doors: 030, C005

Description: FEMA - RATED - CARD READER - PAIR: Corridor C007/ AHU

8 Hinge	SP3786	US26D	MK	
2 Surface Bolt	988	Bright Zinc	SA	
1 Electrified Multi-Point Lock	NAC-FM73285 LNL 188	US26D	SA	⚡
1 Door Closer	TB 281 P10/ O10	EN	SA	
2 Kick Plate	K1050 10" BEV CSK	US26D	RO	
2 Door Stop	481/ 409 (where applicable)	US26D	RO	
1 Threshold	1715A x Opening Width		PE	
1 Gasketing	S773D (Head & Jambs)		PE	
2 Astragal	18041CNB x Door Height		PE	
1 Electric Power Transfer	EL-CEPT		SU	⚡
1 ElectroLynx Harness	QC-C1500P		MK	⚡
1 ElectroLynx Harness	QC-C Length Required		MK	⚡
1 LENEL Card Reader	provided by security integrator			
1 Power Supply	provided by security integrator			

## Notes:

Cutout threshold so bottom strike can be mounted directly to the concrete floor and not to the threshold.

Doors to swing 180 degree.

**Set: 91.0**

Doors: 025

Description: FEMA - RATED - SINGLE: Storage 025

4 Hinge	SP3786	US26D	MK	
1 Multi-Point Lock	FM7324 OL	US32D	SA	
1 Door Closer	TB 281 P10/ O10	EN	SA	

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TONY & LIBBA RANE CULINARY SCIENCE CENTER – 20170204 (AU PROJECT NO. 16-370)  
 & NORTHEAST CAMPUS – UTILITY EXPANSION – 20180388 (AU PROJECT NO. 18-481)

1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Gasketing	S773D (Head & Jambs)		PE

**Set: 92.0**

Doors: 027

Description: FEMA - RATED - SINGLE - CARD READER: MDF 027

4	Hinge	SP3786	US26D	MK
1	Electrified Multi-Point Lock	NAC-FM73285 LNL 188	US26D	SA ⚡
1	Door Closer	TB 281 P10/ O10	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	481/ 409 (where applicable)	US26D	RO
1	Gasketing	S773D (Head & Jambs)		PE
1	Electric Power Transfer	EL-CEPT		SU ⚡
1	ElectroLynx Harness	QC-C1500P		MK ⚡
1	ElectroLynx Harness	QC-C Length Required		MK ⚡
1	LENEL Card Reader	provided by security integrator		
1	Position Switch	DPS-M-BK		SU ⚡
1	Power Supply	BPS-24-1		SU ⚡

## Notes:

Key override is not available at this time.

REX is not available at this time.

**Set: 93.0**

Doors: C004.2, V006

Description: FEMA - RATED - PAIR: Corridor C004/ Stair V006

8	Hinge	SP3786	US26D	MK
1	Removable Mullion	12-HC980	PC	SA
2	Exit Device (classroom)	12 FM8713 ETL	US32D	SA
2	Door Closer	TB 281 P10/ O10	EN	SA



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2	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Threshold	1715A x Opening Width		PE
1	Gasketing	S773D (Head & Jambs)		PE
2	Astragal	18041CNB x Door Height		PE

Notes:

Cutout threshold so bottom strike can be mounted to concrete floor and not on the threshold.

**Set: 94.0**

Doors: 102.3, 102.4

Description: Restaurant Private Dining Barn Door

2	Sliding System	H600S-SW x Length Required		PE
4	Door Pull	DP1004 x MABW/ JGL10		OT

Notes:

-Door hardware specified is for bidding & design intent only. Verify the necessary hardware requirements with the architect, and owner before ordering/purchasing any hardware.

**Set: 95.0**

Doors: 110.1, 114A, 114B, 132A, 132B, 714.2

Description: Eliason/ Automatic Sliding/ Roof Garden

1	Hardware	all hardware by door manufacturer		OT
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END OF SECTION 087100