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ADDENDUM # 3

10/26/16

Solicitation #7551047

*Title: Board of Governors Conference Room Renovation – Rhode Island
College*

Submission Deadline: November 4, 2016 @ 2:00 pm (ET)

Per the issuance of ADDENDUM #3 the following are noted:

See Attached.

Interested Parties should monitor this website on a regular basis, for any additional information that may be posted.

**Gary P. Mosca
Chief Buyer**

SECTION 00 91 11
ADDENDUM 3

PART 1 - GENERAL

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated **September 26, 2016**. Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder.

This Addendum consists of **3** pages plus the following:

1. Specification Section 08 7100 Door Hardware SKA- dated 9/29/16

1.01 CHANGES TO PROJECT MANUAL

1. Delete Section 03 35 11 Concrete Floor Finishes.
2. Delete Hardware noted on Drawing A101. Add section 08 7100 Door Hardware to Specifications.

1.02 CHANGES TO DRAWINGS

1. Drawing D101 – Demolition Floor plan: Add Note “Remove Ceiling Board in its entirety.”
2. Drawing A101 – Floor Plan: Delete Hardware notes. Refer to Specifications.
3. Drawing A102- Ceiling Plan: Revise General Note to read “1. Install new Gyp Wall Board over entire sloped ceiling. Infill framing at removed 2x4 lights with metal stud framing.
4. Drawing A103 - Finish Plan: Revise carpet note to read “* Carpet Material - Contractor to provide and install.”

PT-1 Color to be Classical White #SW 2829, Satin Finish.

PT-2 Color to be Classical Light Buff #SW 0050 Satin Finish.

5. Drawing A201 – South Interior Elevation: Frosted film note applies to gray center band only.
6. Drawing A203 – Detail 8: Glass Wall Type “A” – Frameless Glass wall w/ Frosted Lower Panels refers to gray center band only, from 1'-8" AFF to top of door. See S/A201
Detail E: Note Spec: To be changed to “Countertop and Backsplash Zodiaq quartz surface, Color: Galaxy Black.

Add Note: Appliances are Owner Furnished, Contractor Installed.

Detail 6: Attach Transom panel to frame that matches door construction.

Kitchenette Fixtures: Delete Teknion Countertop part numbers: RHABSHS5804 and RHACTS2556.

7. Drawing E300 - Move one of the floor box receptacles to the middle of the conference room table.
8. Drawing E200 – The Rectangle with “LC1” in it refers to the lighting controls detail on sheet E400.

1.03 QUESTIONS AND ANSWERS

1. Does plaster wall board mean Gypsum wall board?

Answer: All Plaster board notes refer to Gypsum Wall Board. Plaster is not required. Mud and tape all joints.

2. What happens at the existing sloped plaster ceiling? Do we install gypsum board over it or what?

Answer: Demolish existing Ceiling Board. Install new Gyp Wall Board over entire sloped ceiling. Infill framing at removed 2x4 lights with metal stud framing.

3. Please provide names for the following kitchenette items: under “MFG” - TEK – please provide name & contact info, under “CAT” what does “RMC” stand for?

Answer: Under Manufacturer, TEK stands for Teknion. RMC catalogue code stands for "Expansion Modular Cabinets" series. Material is Flintwood.

4. On D101 it states that the demo work with the conference room will be completed by the owner; will this also include the existing lighting fixtures and fire alarm devices? What about the existing scratch coat ceiling to allow access to install the new recessed lights and other systems?

Answer: The owner completed the required abatement work. All demo work indicated on the drawings and required to complete the work, i.e. the removal of light fixtures, demo of the ceiling for new light fixtures etc., is to be completed by the contractor.

5. At the walk thru we noted that there was two existing heat or smoke detectors in the ceiling, since the room has sprinklers, will those devices still be required? If so should they remain in the same location?

Answer: The heat/smoke detectors can be removed.

6. In reference to the existing walker duct in the floor, in the field it looks as if the data and power ducts could be between 12” and 24” apart and will not be centered within the room exactly. Was this thought of when specifying the new table? Is there a

specification available to verify the size of the table legs we shall be entering with the AV, Data and Power cabling?

Answer: Refer to Furniture Schedule on A101 for table manufacturer and model number. One of the floor receptacles shall remain. The second shall be located at the center leg of the table.

7. Does RIC have their own contract with an AV and/or Tele/Data company that will be completing the low voltage part of the project or will that be included with the electrical contractors scope of work?

Answer: All tel/data wiring, outlets, terminations, and testing shall be the responsibility of the electrical contractor. The contractor performing the work must be properly certified as indicated on the drawings.

8. At the walk-thru it was mentioned that this project shall be completed during the Christmas break, is an exact schedule available?

Answer: See Specifications Section 01 10 00 Summary for Time Restrictions. Any disruptive work that is anticipated to create noise that would be unacceptable for a working environment must be cleared through Facilities and Operations for completion during the off hours.

9. Drawing E100 electrical Demo shows removals, Drawing D101 indicated demo is by the owner. Please clarify if there is any demolition by the electrical contractor.

Answer: Refer to response for Question 1 regarding extent of demolition. All demo work indicated on the electrical demolition plan shall be the responsibility of the electrical contractor.

10. No emergency or exit lights shown, are any required?

Answer: New lighting fixtures specified on the lighting drawings include emergency ballasts.

11. Drawing E200 noted symbol "LC" in a box with a "1" below it sitting above the conference table. Please define.

Answer: The referenced symbol refers to the lighting control detail on sheet E400. The symbol shall be included in the legend as part of an Addendum.

12. Are we running any conduit through the floor electrical ducts?

Answer: The intent is to run wiring only through the existing Walkerdect, not conduit.

END OF SECTION

SECTION 08 71 00

DOOR HARDWARE

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

A. Section Includes

- 1. Furnishing and installation of all mechanical and electrical finish hardware necessary for all doors, and hardware as specified herein and as enumerated in hardware sets and as indicated and required by actual conditions at the building. The hardware shall include the furnishing of all necessary screws, bolts, expansion shields, drop plates, and all other devices necessary for the proper application of the hardware. Installation shall include field modification and preparation of existing doors and/or frames for new hardware being installed. Provide necessary fillers, Dutchmen, reinforcements, and fasteners for mounting new hardware and to cover existing door/frame preps.

B. Related Sections

- 1. Division 6 Section - Finish Carpentry
- 2. Division 8 Section - Hollow Metal Doors and Frames
- 3. Division 8 Section - Wood Doors
- 4. Division 8 Section - Aluminum Framed Storefronts
- 5. Division 8 Section - Glass and Glazing
- 6. Division 26 Section - Electrical
- 7. Division 27 Section - Communications
- 8. Division 28 Section - Electronic Security and Safety

C. Specific Omissions: Hardware for the following is specified or indicated elsewhere, unless specifically listed in the hardware sets:

- 1. Windows
- 2. Cabinets of all kinds, including open wall shelving and locks.
- 3. Signage, except as noted.
- 4. Complete toilet accessories including coat hooks, unless note otherwise.
- 5. Overhead doors, unless noted otherwise.

1.03 REFERENCES

- A. Applicable state and local building codes and standards.
- B. FIRE/LIFE SAFETY
 - 1. NFPA - National Fire Protection Association
 - a. NFPA 70 – National Electric Code
 - b. NFPA 80 - Standard for Fire Doors and Fire Windows
 - c. NFPA 101 - Life Safety Code
 - d. NFPA 105 - Smoke and Draft Control Door Assemblies
- C. UL - Underwriters Laboratories
 - 1. UL 10B - Fire Test of Door Assemblies
 - 2. UL 10C - Positive Pressure Test of Fire Door Assemblies
 - 3. UL 1784 - Air Leakage Tests of Door Assemblies
 - 4. UL 305 - Panic Hardware
- D. Accessibility
 - 1. ADA - Americans with Disabilities Act
 - 2. Rhode Island Accessibility Code – SBC-14, 15, 16
- E. DHI - Door and Hardware Institute
 - 1. Sequence and Format for the Hardware Schedule
 - 2. Recommended Locations for Builders Hardware
- F. ANSI - American National Standards Institute
 - 1. ANSI/BHMA A156.1 - A156.29, and ANSI A156.31 - Standards for Hardware and Specialties

1.04 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 requirements. Prior to submittal field verify existing doors and/or frames receiving new hardware and/or existing conditions receiving new openings. Verify new hardware is compatible with the existing door/frame preparation and/or existing conditions. Advise architect within the submittal package of incompatibility or issues.
- B. Catalog Cuts: Product data including manufacturers' technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
- C. Final Hardware Schedule Content: Submit schedule with hardware sets in vertical format as illustrated by the Sequence of Format for the Hardware Schedule as published by the Door and Hardware Institute. Indicate complete designations of each item required for each door or opening. Include the following information:

1. Door Index; include door number, heading number, and Architects hardware set number.
 2. Opening Lock Function Spreadsheet; list locking device and function for each opening.
 3. Type, style, function, size, and finish of each hardware item.
 4. Name and manufacturer of each item.
 5. Fastenings and other pertinent information.
 6. Location of each hardware set cross-referenced to indications on Drawings.
 7. Explanation of all abbreviations, symbols, and codes contained in schedule.
 8. Mounting locations for hardware.
 9. Door and frame sizes and materials.
 10. Name and phone number for the local manufacturer's representative for each product.
 11. Operational Description of openings with any electrified hardware (locks, exits, electromagnetic locks, electric strikes, automatic operators, door position switches, magnetic holders or closer/holder units, and/or access control components). Operational description should include how the door will operate on egress, ingress, and/or fire/smoke alarm connection.
- D. Key Schedule: After a keying meeting between representatives of the Owner, Architect, hardware supplier, and, if requested, the representative for the lock manufacturer, provide a keying schedule, listing the levels of keying, as well as an explanation of the key system's function, the key symbols used, and the door numbers controlled. Utilize ANSI A156.28 "Recommended Practices for Keying Systems" as a guideline for nomenclature, definitions, and approach for selecting the optimal keying system.
- E. Samples: If requested by the Architect, submit production sample or sample installations as requested of each type of exposed hardware unit in the finish indicated, and tagged with a full description for coordination with the schedule.
1. Samples will be returned to the supplier in like-new condition. Units that are acceptable to the Architect may, after final check of operations, be incorporated into the Work, within limitations of key coordination requirements.
- F. Templates: After final approval of the hardware schedule, provide templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware.
- G. Riser and Wiring Diagrams: After final approval of the hardware schedule, submit riser and wiring diagrams as required for the proper installation of complete electrical, electromechanical, and electromagnetic products.
- H. Operations and Maintenance Data: Provide in accordance with Division 1 and include the following:
1. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
 2. Catalog pages for each product.

3. Name, address, and phone number of local representative for each manufacturer.
 4. Parts list for each product.
 5. Copy of final approved hardware schedule, edited to reflect "As installed."
 6. Copy of final keying schedule.
 7. As installed "Wiring Diagrams" for each opening connected to power, both low voltage and 110 volts.
 8. One (1) complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.
 9. Copy of warranties including appropriate reference numbers for manufacturers to identify the project.
- I. Certificates of Compliance: Upon request of Architect or Authority Having Jurisdiction certificates of compliance for fire-rated hardware and installation instructions shall be made available.

1.05 QUALITY ASSURANCE

- A. Substitutions: Products are to be those specified to ensure a uniform basis of acceptable materials. Requests for substitutions must be made in accordance with Division 1 requirements. If proposing a substitute product, submit product data for the proposed item with product data for the specified item and indicate basis for substitution and savings to be made. Provide sample if requested. Certain products have been selected for their unique characteristics and particular project suitability.
1. Items specified as "no substitute" shall be provided exactly as listed.
 2. Items listed with no substitute manufacturers listed have been requested by the Owner or Architect to match existing for continuity and/or future performance and maintenance standards or because there is no known equal product.
 3. If no other products are listed in a category, then "no substitute" is implied.
- B. Supplier Qualifications: A recognized architectural hardware supplier, with warehousing facilities in the Project's vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that provides a certified Architectural Hardware Consultant (AHC) available to the Owner, Architect, and Contractor, at reasonable times during the course of the Work for consultation.
- C. Single Source Responsibility: Obtain each type of hardware (latch and locksets, hinges, exit devices, closers, etc.) from a single manufacturer.
- D. Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA Standard No. 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to products tested by Underwrites Laboratories, Intertek Testing Services, or other testing and inspecting organizations acceptable to the authorities having jurisdiction for use on types and sizes of doors indicated in compliance with requirements of fire-rated door and door frame labels.
- E. Electronic Security Hardware: When electrified hardware is included in the hardware specification, the hardware supplier must employ an individual knowledgeable in electrified components and

systems, who is capable of producing wiring diagrams and consulting as needed. Coordinate installation of the electronic security hardware with the Architect and electrical engineers and provide installation and technical data to the Architect and other related subcontractors. Upon completion of electronic security hardware installation, inspect and verify that all components are working properly.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Tag each item or package separately with identification related to the final hardware schedule, and include installation instructions with each item or package.
- B. Each article of hardware shall be individually packaged in manufacturer's original packaging.
- C. Contractor will provide secure lock-up for door hardware delivered to the Project, but not yet installed. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
- D. Items damaged in shipment shall be replaced promptly and with proper material and paid for by whomever did the damage or caused the damage to occur.
- E. Hardware shall be handled in a manner to avoid damage, marring, or scratching. Irregularities that occur to the hardware after it has been delivered to the Project shall be corrected, replaced, or repaired by the Contractor. Hardware shall be protected against malfunction due to paint, solvent, cleanser, or any chemical agent.
- F. No direct shipments will be allowed unless approved by the Contractor.

1.07 WARRANTY

- A. Provide manufacturer's warranties as specified in Division 1 and as follows:
 - 1. Closers: 30 years, except electronic closers, 2 years.
 - 2. Exit Devices: 3 years, except electrified devices, 1 year.
 - 3. ND Locksets: 10 years, except electrified locksets, 1 year.
 - 4. Other hardware: 1 year.
- B. No liability is to be assumed where damage or faulty operation is due to improper installation, improper use, or abuse.
- C. Products judged to be defective during the warranty period shall be replaced or repaired in accordance with the manufacturer's warranty, at no additional cost to the Owner.

1.08 MAINTENANCE

- 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

2.01 MANUFACTURERS

- A. The Awarding Authority has determined that certain products should be selected for their unique characteristics and particular project suitability to insure continuity of existing and future performance and maintenance standards. After investigating available product offerings the Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute" (NO OTHER PRODUCTS WILL BE CONSIDERED FOR THOSE LISTED IN PROJECTS DOCUMENTS.)
- B. Approval of manufacturers other than those listed shall be in accordance with paragraph 1.05.A.
- C. Note that even though an acceptable substitute manufacturer may be listed, the product must provide all the functions and features of the specified product or it will not be approved.

Item	Scheduled Manufacturer	Acceptable Substitute
Hinges	Ives (IVE)	Hager, Stanley
Locksets	Schlage (SCH)	Best, Sargent
Electric Strikes	Von Duprin (VON)	HES, Folger Adam
Protection Plates	Ives (IVE)	Burns, Rockwood
Overhead Stops	Glynn-Johnson (GLY)	Rixson, Sargent
Stops & Holders	Ives (IVE)	Burns, Rockwood
Silencers	Ives (IVE)	Burns, Rockwood
Cylinders & Keying	Medeco (MED)	No Substitute

- D. Hand of Door: Drawings show direction of slide, swing, or hand of each door leaf. Furnish each item of hardware for proper installation and operation of door movement as shown.
- E. Where the hardware specified is not adaptable to the finished shape or size of the members requiring hardware, furnish suitable types having the same operation and quality as the type specified, subject to the Architect's approval.

2.02 MATERIALS

A. Fasteners

1. Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation.
2. Furnish screws for installation with each hardware item. Finish exposed (exposed under any condition) screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work as closely as possible including "prepared for paint" surfaces to receive painted finish.
3. Provide concealed fasteners for hardware units that are exposed when door is closed except to the extent that no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless their use is the only means of reinforcing the work adequately to fasten the hardware securely. Review door specification and advise Architect if thru-bolts are required.
4. Hardware shall be installed with the fasteners provided by the hardware manufacturer.

B. Hinges

1. Provide five-knuckle, ball bearing hinges of type, material, and height as outlined in the following guide for this specification:

- a. 1-3/4 inch thick doors, up to and including 36 inches wide:
Exterior: standard weight, bronze/stainless steel, 4-1/2 inches high
Interior: standard weight, steel, 4-1/2 inches high
 - b. 1-3/4 inch thick doors over 36 inches wide:
Exterior: heavy weight, bronze/stainless steel, 5 inches high
Interior: heavy weight, steel, 5 inches high
 - c. 2 inches or thicker doors:
Exterior: heavy weight, bronze/stainless steel, 5 inches high
Interior: heavy weight, steel, 5 inches high
2. Provide three hinges per door leaf for doors 90 inches or less in height, and one additional hinge for each 30 inches of additional door height.
 3. Where new hinges are specified for existing doors and/or existing frames, the new hinge size must be identical to hinge preparation present in the existing door and/or existing frame.
 4. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
 - a. Steel Hinges: Steel pins
 - b. Non-Ferrous Hinges: Stainless steel pins
 - c. Out-Swinging Exterior Doors: Non-removable pins
 - d. Out-Swinging Interior Lockable Doors: Non-removable pins
 - e. Interior Non-lockable Doors: Non-rising pins
 5. The width of hinges shall be 4-1/2 inches at 1-3/4 inch thick doors, and 5 inches at 2 inches or thicker doors. Adjust hinge width as required for door, frame, and/or wall conditions to allow proper degree of opening.
 6. Provide hinges with electrified option where specified. Provide with sufficient number and gage of concealed wires to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to the electrified locking component.
 7. Provide mortar guard for each electrified hinge specified, unless specified in hollow metal frame specification.
 8. Acceptable manufacturers and/or products: Ives 5BB series, Hager BB series, Stanley FBB Series.
- C. Mortise Locks
1. Provide mortise locks certified as ANSI A156.13, Grade 1 Operational, Grade 1 Security, and manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance. Lock case shall be multi-function and field reversible for handing without opening the case. Cylinders: Refer to 2.04 KEYING.
 2. Provide locks with a standard 2-3/4 inches backset with a full 3/4 inch throw stainless steel mechanical anti-friction latchbolt. Deadbolt shall be a full 1 inch throw, constructed of stainless steel.
 3. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
 4. Provide electrical options as scheduled. Provide electrified locksets with micro switch (RX) option that monitors the retractor crank, and is actuated when rotation of the inside or outside lever rotates the retractor hub. Provide normally closed contacts or normally open contacts as required by security system.

5. Lever trim shall be solid brass, bronze, or stainless steel, cast or forged in the design specified, with wrought roses and external lever spring cages. Levers shall be thru-bolted to assure proper alignment, and shall have a 2-piece spindle.
 - a. Lever design shall be Schlage 06A.
 - b. Lever trim on the secure side of doors serving rooms considered by the authority having jurisdiction to be hazardous shall have a tactile warning.
 6. Acceptable manufacturers and/or products: Schlage L9000 series, Best 45H series, Sargent 8200 series.
- D. Electric Strikes
1. Provide electric strikes designed for use with the type locks shown at each opening.
 2. Provide electric strikes UL Listed as burglary-resistant electric door strikes and where required shall be UL Listed as electric strikes for fire doors and frames. Provide fail-secure type electric strikes, unless specified otherwise.
 3. Provide transformers and rectifiers for each strike as required. Verify voltage with electrical contractor.
 4. Acceptable manufacturers and/or products: Von Duprin 6000 series, Folger Adam 300 series, HES 1006 series.
- E. Protection Plates
1. Provide kick plates, mop plates, and armor plates minimum of 0.050 inch thick as scheduled. Furnish with machine or wood screws, finished to match plates. Sizes of plates shall be as follows:
 - a. Kick Plates – 8 inches high x 2 inches less width of door on single doors, 1 inch less width of door on pairs
 - b. Mop Plates – 4 inches high x 2 inches less width of door on single doors, 1 inch less width of door on pairs
 - c. Armor Plates – 36 inches high x 2 inches less width of door on single doors, 1 inch less width of door on pairs
 2. Acceptable manufacturers and/or products: Ives, Burns, Rockwood.
- F. Overhead Stops and Overhead Stop/holders
1. Provide heavy duty concealed mounted overhead stop or overhead stop/holder as specified for exterior and interior vestibule single acting doors.
 2. Provide heavy or medium duty and concealed or surface mounted overhead stop or overhead stop/holder for interior doors as specified. Provide medium duty surface mounted overhead stop for interior doors and at any door that swings more than 140 degrees before striking a wall, open against equipment, casework, sidelights, and/or where conditions do not allow a wall stop or a floor stop presents a tripping hazard.
 3. Where overhead holders are specified provide friction type at doors without a closer and positive type at doors with a closer.
 4. Acceptable manufacturers and/or products: Glynn-Johnson, Rixson, Sargent.

G. Door Stops and Holders

1. Provide door stops for all doors in accordance with the following requirements:
 - a. Provide wall stops wherever possible. Provide convex type where mortise type locks are used and concave type where cylindrical type locks are used.
 - b. Where wall stops cannot be used, provide dome type floor stops of the proper height.
 - c. At any opening where a wall or floor stop cannot be used, a medium duty surface mounted overhead stop shall be used.
2. Acceptable manufacturers and/or products: Ives, Burns, Rockwood.

H. Silencers

1. Provide "Push-in" type silencers for each hollow metal or wood frame. Provide three for each single frame and two for each pair frame. Omit where gasketing is specified or required by code.
2. Acceptable manufacturers and/or products: Ives, Burns, Rockwood.

2.03 FINISHES

- A. Finish of all hardware shall be US26D (BHMA 626/652) with the exceptions as follows:
1. Protection Plates: US32D (BHMA 630).
 2. Overhead Stops and Holders: US32D (BHMA 630).

2.04 KEYING

- A. Provide cores and cylinders for the Owner's Existing Medeco key system conforming to the following requirements:
1. Provide removable core cylinders at all keyed devices, locksets, cylinder dogging, and exit device trim. Provide construction cores with construction master keying for use during construction. The hardware supplier, accompanied by the Owner or Owner's security agent, shall install permanent keyed cores upon completion of the project. The temporary construction cores are to be returned to the hardware supplier.
 2. Provide permanent cores and cylinders keyed by the manufacturer or authorized distributor into the existing key system as directed by the Owner. Provide owner with a copy of the bitting list, return receipt requested.
 3. The hardware supplier, accompanied by a qualified factory representative for the manufacturer of the cores and cylinders, shall meet with Owner and Architect to review keying requirements and lock functions prior to ordering finish hardware. Submit a keying schedule to Architect for approval.
 4. Provide keys as follows
 - a. Ten master keys for each set.
 - b. Three keys per core and/or cylinder.
 - c. Two construction core control keys
 - d. Two permanent core control keys

- e. Six construction master keys for each type (Contractor is to provide one set of construction keys to Architect)
- 5. Visual key control:
 - a. Keys shall be stamped with their respective key set number and stamped "DO NOT DUPLICATE".
 - b. All keys shall be stamped with their respective key set letters.
 - c. Do not stamp any keys with the factory key change number.
 - d. Do not stamp any cores with key set on face (front) of Core. Stamp on back or side of cores so not to be visible when core is in cylinder.
- 6. Deliver all keys and/or key blanks from the factory or authorized distributor directly to the Owner in sealed containers, return receipt requested. Failure to comply with these requirements may be cause to require replacement of all or any part of the keying system that was compromised at no additional cost to the Owner.
- 7. Approved products: Medeco X4 SFIC, No Substitute.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Prior to installation of any hardware, examine all doors, frames, walls and related items for conditions that would prevent proper installation of finish hardware. Correct all defects prior to proceeding with installation.

3.02 INSTALLATION

- A. Coordination:
 - 1. Prior to installation of hardware, schedule and hold a meeting for the purpose of instructing installers on proper installation and adjustment of finish hardware. Representatives of locks, exit devices, closers, automatic operators, and electrified hardware shall conduct training; provide at least 10 days notice to representatives. After training a letter of compliance, indicating when the training was held and who was in attendance, shall be sent to the Architect.
 - 2. Prior to ordering electrified hardware, schedule and hold a meeting for the purpose of coordinating finish hardware with security, electrical, doors and frames, and other related suppliers. A representative of the supplier of finish hardware, and doors and frames, the electrical subcontractor, and the Owner's security contractor shall meet with the Owner, Architect, and General Contractor prior to ordering finish hardware. After meeting a letter of compliance, indicating when the training was held and who was in attendance, shall be sent to the Architect.
- B. Hardware will be installed by qualified tradesmen, skilled in the application of commercial grade hardware. For technical assistance if necessary, installers may contact the manufacturer's rep for the item in question, as listed in the hardware schedule.
- C. Mount hardware units at heights indicated in "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute.
- D. Install each hardware item in compliance with the manufacturer's instructions and recommendations, using only the fasteners provided by the manufacturer.

- E. Do not install surface mounted items until finishes have been completed on the substrate. Protect all installed hardware during painting.
- F. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- G. Operating parts shall move freely and smoothly without binding, sticking, or excessive clearance.
- H. Wire (including low voltage), conduit, junction boxes, and pulling of wire is by Division 26, Electrical. Electrical Contractor shall connect wire to door position switches and run wire to central room or area as directed by the Architect. Wires shall be tested and labeled with the Architects opening number. Connections to/from power supplies to electrified hardware and any connection to fire/smoke alarm system, and/or smoke evacuation system where specified is by Division 26 Electrical.

3.03 ADJUSTING, CLEANING, AND DEMONSTRATING

- A. Adjust and check each operating item of hardware and each door, to insure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly.
- B. Where door hardware is installed more than one month prior to acceptance or occupancy of a space or area, return to the installation during the week prior to acceptance or occupancy and make a final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.
- C. Clean adjacent surfaces soiled by hardware installation.
- D. Instruct Owner's personnel in the proper adjustment, lubrication, and maintenance of door hardware and hardware finishes.

3.04 FIELD QUALITY CONTROL

- A. Prior to Substantial Completion, the installer, accompanied by representatives of the manufacturers of locks, exit devices, closer, and any electrified hardware, shall perform the following work:
 - 1. Examine and re-adjust each item of door hardware as necessary to restore function of doors and hardware to comply with specified requirements.
 - 2. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures.
 - 3. Replace hardware items that have deteriorated or failed due to faulty design, materials, or installation of hardware units.
 - 4. Prepare a written report of current and predictable problems of substantial nature in the performance of the hardware.
 - 5. At completion of project, a qualified factory representative for the manufacturers of locksets, closer, exit devices, and access control products shall arrange and hold a training session to instruct the Owner's personnel on the proper maintenance, adjustment, and/or operation of their respective products. After training a letter of compliance, indicating when the training was held and who was in attendance, shall be sent to the Architect.

3.05 PROTECTION

- A. Provide for the proper protection of complete items of hardware until the Owner accepts the project as complete. Damaged or disfigured hardware shall be replaced or repaired by the responsible party.

3.06 HARDWARE SCHEDULE

- A. Provide hardware for each door to comply with requirements of Section "Finish Hardware," hardware set numbers indicated in door schedule, and in the following schedule of hardware sets.
- B. It is intended that the following schedule includes complete items of finish hardware necessary to complete the work. If a discrepancy is found in the schedule, such as a missing item, improper hardware for a frame, door or fire codes, the preamble will be the deciding document.
- C. Locksets, exit devices, and other hardware items are referenced in the Hardware Sets for series, type, and function. Refer to the preamble for special features, options, cylinders/keying, and other requirements.
- D. Hardware Sets

HEADING # 01 - (SINGLE WITH OFFICE LOCKSET)

FOR USE ON MARK/DOOR #(S):
101

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SERIES AS SPECIFIED	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050 06A	626	SCH
1	EA	OH STOP	450S	630	GLY
3	EA	SILENCER	SR64	GRY	IVE

HEADING # 02 - (SINGLE WITH OFFICE LOCKSET X FAIL SECURE ELECTRIC STRIKE X CLOSER X EXISTING AUTOMATIC OPERATOR)

FOR USE ON MARK/DOOR #(S):
102

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SERIES AS SPECIFIED	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050 06A	626	SCH
1	EA	ELECTRIC STRIKE	6211AL FSE	630	VON
1	EA	AUTO OPERATOR	EXISTING TO REMAIN		
2	EA	ACTUATOR	EXISTING TO REMAIN		
1	EA	KICK PLATE	8400 8" X 2" LDW	630	IVE
1	EA	STOP	WS407/FS436 AS SPECIFIED	626	IVE
1	SET	SEALS	BY ALUMINUM FRAME SUPPLIER		

END OF SECTION