

BID ADDENDUM NO. 1

Date of Addendum: July 3, 2023
Issued for Bid Date: June 25, 2024
Client Name: Mount Pleasant Central School District
Project Name: 2024 WHS PPS Project
SED Project No.: Westlake High School: 66-08-01-06-0-005-025
MEMASI Project No.: 107-2201
Contracts: Contract No. 1 – General Construction (GC)
Contract No. 2 – Mechanical Construction (MC)
Contract No. 3 – Electrical Construction (EC)
Contract No. 4 – Window Construction Work (WC)

This Bid Addendum forms part of the Contract Documents and modifies the original Issued for Bid Documents dated June 25, 2024. Where provisions of the following supplementary information differ from those of the original Bid Documents, this Addendum shall govern and take precedence.

The Bid Documents are modified and clarified as follows:**Addenda to Specifications:****1. Section 011000 SUMMARY OF WORK – MULTIPLE CONTRACTS**

- a. The following Special Notes were added to 1.6 CONTRACT NO. 3 – ELECTRICAL CONSTRUCTION (EC):
 - 17. EC to provide Box's/Conduit and Pull String at each location where a Technology, Security and Communications device is shown. Some devices may be surface mounted on interior and exterior Masonry walls.
 - 18. EC to provide additional power as shown on Technology Drawings including power to the GC provided door control power supply.
 - 19. EC to provide Painted Plywood and 4" Conduit as per 3/T201
 - 20. EC to provide conduit and pull string at door jamb locations as noted on 9/T401.

2. Section 087100 DOOR HARDWARE

- b. Door hardware SET #EXT-02 is replaced by door hardware SET #04 (Door 010), SET #05 (Door 010B), and SET #EX01 (Door 010A) respectively.

Addenda to Drawings:**1. A901 - DOOR AND WINDOW SCHEDULE AND ELEVATIONS**

- a. In the NEW DOOR SCHEDULE – PUPIL PERSONNEL SERVICES table, the door hardware is updated as follows: At door 010 hardware SET #EXT-02 is replaced with door hardware SET #04, at door 010B the hardware is replaced with SET #05, and at door 010A the hardware set is replaced with SET #EX01.

2. E301 – POWER PLAN HS – PPS PART

- a. Additional data and electrical outlet added to PPS space.

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3. T003 – TECHNOLOGY SPECIFICATION

- a. Added note. See attached drawing.

Attachments:

Specifications

087100 – DOOR HARDWARE

Drawings

E301 - POWER PLAN HS – PPS PART

T003 – TECHNOLOGY SPECIFICATION

Responses to RFI's:

Piazza Inc. RFI #01

Other:

Pre-Bid Meeting Sign-in Sheet

END OF BID ADDENDUM NO. 1

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions, Division 1 - GENERAL REQUIREMENTS, and other applicable specification sections in the Project Manual apply to the work specified in this Section.

1.2 SUMMARY

- A. Scope: Provide labor, material, equipment, related services, and supervision required, including, but not limited to, manufacturing, fabrication, erection, and installation for door hardware as required for the complete performance of the work, and as shown on the Drawings and as herein specified.
- B. Section Includes: The work specified in this Section includes, but shall not be limited to, items known commercially as door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.
- C. Related Sections:
 - 1. Division 01 Section "Sustainable Design Requirements" for additional LEED requirements that affect door hardware and related products.
 - 2. Division 08 Section "Hollow Metal Doors and Frames" for steel doors and frames including integral astragal requirements for pairs of doors.
 - 3. Division 08 Section "Flush Wood Doors" for wood doors including special stile and rail construction for application of hardware on doors without through bolts.
 - 4. Division 08 Section "Sound-Control Door Assemblies" for acoustically rated doors and frames, and applicable hardware requirements not specified herein.
 - 5. Division 08 Section "Aluminum-Framed Entrances" for aluminum stile and rail doors and associated framework.
 - 6. Division 08 Section "All-Glass Storefronts" for all-glass doors and associated framework.
 - 7. Division 10 Section "Fixed Glass Panel Partitions" for all-glass door and wall systems including doors and hardware not part of this section.
 - 8. Division 26 Sections for all electrical power system and for connections to building fire alarm system.

1.3 REFERENCES

- A. The publications listed below form a part of this Specification to the extent referenced. The publications are referred to in the text by the basic designation only.
- B. The edition/revision of the referenced publications shall be the latest date as of the date of the Contract Documents, unless otherwise specified.
- C. Builders Hardware Manufacturers Association, Inc. (BHMA):
 - 1. ANSI/BHMA A156.1, "Butts and Hinges" (copyrighted by BHMA, ANSI approved).
 - 2. ANSI/BHMA A156.3, "Exit Devices" (copyrighted by BHMA, ANSI approved).
 - 3. ANSI/BHMA A156.4, "Door Controls - Closers" (copyrighted by BHMA, ANSI approved).
 - 4. ANSI/BHMA A156.5, "Auxiliary Locks and Associated Products" (copyrighted by BHMA, ANSI approved).
 - 5. ANSI/BHMA A156.6, "Architectural Door Trim" (copyrighted by BHMA, ANSI approved).
 - 6. ANSI/BHMA A156.7, "Template Hinge Dimensions" (copyrighted by BHMA, ANSI approved).

7. ANSI/BHMA A156.8, "Door Controls - Overhead Stops and Holders" (copyrighted by BHMA, ANSI approved).
8. ANSI/BHMA A156.13, "Mortise Locks and Latches" (copyrighted by BHMA, ANSI approved).
9. ANSI/BHMA A156.14, "Sliding and Folding Door Hardware" (copyrighted by BHMA, ANSI approved).
10. ANSI/BHMA A156.15, "Life Safety Closer/Holder/Release Devices" (copyrighted by BHMA, ANSI approved).
11. ANSI/BHMA A156.16, "Auxiliary Hardware" (copyrighted by BHMA, ANSI approved).
12. ANSI/BHMA A156.17, "Self-Closing Hinges and Pivots" (copyrighted by BHMA, ANSI approved).
13. ANSI/BHMA A156.18, "Materials and Finishes" (copyrighted by BHMA, ANSI approved).
14. ANSI/BHMA A156.19, "Power Assist and Low Energy Power Operated Doors" (copyrighted by BHMA, ANSI approved).
15. ANSI/BHMA A156.21, "Thresholds" (copyrighted by BHMA, ANSI approved).
16. ANSI/BHMA A156.22, "Door Gasketing and Edge Seal Systems" (copyrighted by BHMA, ANSI approved).
17. ANSI/BHMA A156.24, "Delayed Egress Locking Systems" (copyrighted by BHMA, ANSI approved).
18. ANSI/BHMA A156.25, "Electrified Locking Devices" (copyrighted by BHMA, ANSI approved).
19. ANSI/BHMA A156.26, "Continuous Hinges" (copyrighted by BHMA, ANSI approved).
20. ANSI/BHMA A156.31, "Electric Strikes and Frame Mounted Actuators" (copyrighted by BHMA, ANSI approved).

D. Door and Hardware Institute (DHI):

1. DHI RLAHSSDF, "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. DHI RLBHCSDF, "Recommended Locations for Builders' Hardware for Custom Steel Doors and Frames."

E. National Fire Protection Association (NFPA):

1. NFPA 70, "National Electric Code".
2. NFPA 80, "Standard for Fire Doors and Windows".
3. NFPA 101, "Life Safety Code".
4. NFPA 252, "Standard Methods of Fire Tests of Door Assemblies".

F. Underwriters Laboratories, Inc. (UL):

1. UL 305, "Standard for Panic Hardware."

G. Window and Door Manufacturing Association (WDMA):

1. WDMA I.S. 1, "Industry Standard for Wood Flush Doors" (copyrighted by WDMA, ANSI approved).

1.4 SUBMITTALS

A. Product Data: Submit product data including, but not limited to, manufacturer's technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, door handing and other information necessary to show compliance with requirements.

1. List of Manufacturers: Submit list of manufacturers selected for each item of hardware (hinges, locksets and latchsets, closers, etc.). Use the same format and the same hardware type numbers that are used in Part 2 - PRODUCTS. Follow the type number with a finish designation. Include a legend for finish designations if they are different from the ones used in this Section.
2. Cut Sheets: Submit cut sheet for each type of each item of hardware scheduled. Identify each item by type number.

B. Hardware Schedule: Submit final hardware schedule in the format used in Part 3 – EXECUTION and in accordance with Division 01. Hardware schedules are intended for coordination of the work. Review and acceptance by the Architect does not relieve the Contractor of his exclusive responsibility to fulfill the requirements as shown and specified.

1. Based on hardware indicated, organize hardware schedule into sets showing complete designations of every item required for each door opening. Schedule shall be vertical layout similar to the format used herein. Prepare schedule with double spaced lines, and with pages numbered and dated. Horizontal and hand-written hardware schedules are not acceptable.
 2. For doors of different sizes; or where hinges, locks or closers are different; use a separate heading. Do not combine labeled and non-labeled openings in the same heading. The schedule shall include, but not be limited to, the following:
 - a. Number, location, hand, degree of opening, fire rating and material of each door opening (hands and swings to be determined in relation to the locked side of the opening).
 - b. Type, style, function, size and quantity of each hardware item.
 - c. Name and manufacturer of each item.
 - d. Fastening requirements.
 - e. Explanation of symbols, abbreviations and codes contained in schedule (use nomenclature consistent with DHI's "Abbreviations and Symbols" wherever possible).
 - f. Special mounting locations and instructions.
 3. Furnish an index cross referencing Contract Document door number and hardware set, with supplier's hardware group.
 4. Combined submittals are not acceptable. Do not combine hardware schedules with door and frame shop drawings.
 5. Schedules not adhering to these parameters will not be reviewed.
- C. Samples: As requested by the architect, submit samples of each type of exposed hardware unit in finish indicated and tagged with full description for coordination with schedule. Submit samples prior to submission of final hardware schedule.
1. Samples shall be returned to the door hardware supplier. Units that are acceptable and remain undamaged through submittal, review, and field comparison process may, after final check of operation, be incorporated in the work, within limitations of keying coordination requirements.
- D. Templates: Furnish hardware templates to each fabricator of doors, frames, and other work to be factory-prepared for the installation of hardware. Check shop drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements. If manufacturer requires physical hardware, ship the hardware to them via prepaid freight in sufficient time to prevent any delay in the execution of their work.
- E. Qualification Data: Submit qualification data for firms and persons specified in Quality Assurance Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names of architects and owners, date, reference names and phone number, and other information specified.
- F. Custom Wiring Diagrams: Furnish custom wiring diagrams for each opening with electrified hardware. Include riser diagrams, point-to-point hookup wiring diagrams, and function statements (operational narratives) for each opening. Include fire alarm and/or access control system interface where applicable.
- G. Keying Schedule: Submit detailed keying schedule, indicating Owner's approved keying system, for Owner's review and approval. Include a schematic keying diagram and index identifying each key set to unique door designations.
- 1.5 QUALITY ASSURANCE
- A. Qualifications:
1. Manufacturer Qualifications: Manufacturer shall be a firm engaged in the manufacture of door hardware of types and sizes required, and whose products have been in satisfactory use in similar service for a minimum of five years.

2. **Installer Qualifications:** Installer shall be a firm that shall have a minimum of five years of successful installation experience with projects utilizing door hardware similar in type and scope to that required for this Project.
3. **Supplier Qualifications:** A recognized door hardware supplier who has been furnishing hardware for a period of not less than two years and who is, or has in employ, an experienced architectural hardware consultant (AHC) who will be available at reasonable times during the work for consultation with the Owner, the Architect, and the Contractor.
 - a. **Architectural Hardware Consultant (AHC) Qualifications:** A person who is currently certified by DHI as an Architectural Hardware Consultant and who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project.
- B. **Regulatory Requirements:** Comply with applicable requirements of the laws, codes, ordinances, and regulations of Federal, State, and local authorities having jurisdiction. Obtain necessary approvals from such authorities.
- C. **ANSI/BHMA Standards:** Provide products complying with the following standards and requirements specified elsewhere in this Section:
 1. Butts and Hinges: ANSI/BHMA A156.1.
 2. Exit Devices: ANSI/BHMA A156.3.
 3. Door Controls, Closers: ANSI/BHMA A156.4.
 4. Auxiliary Locks and Associated Products: ANSI/BHMA A156.5.
 5. Architectural Door Trim: ANSI/BHMA A156.6.
 6. Template Hinge Dimensions: ANSI/BHMA A156.7.
 7. Door Controls, Overhead Holders: ANSI/BHMA A156.8.
 8. Mortise Locks and Latches: ANSI/BHMA A156.13.
 9. Sliding and Folding Door Hardware: ANSI/BHMA A156.14.
 10. Closer Holder Release Devices: ANSI/BHMA A156.15.
 11. Auxiliary Hardware: ANSI/BHMA A156.16.
 12. Materials and Finishes: ANSI/BHMA A156.18.
 13. Continuous Hinges: ANSI/BHMA A156.26.
- D. **Accessibility for Disabled Persons:** Provide special hardware requirements for knurling, slow acting closers or other barrier free opening requirements as indicated in the Hardware Set Schedule and as required to comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)".
- E. **Fire-Rated Openings and Exit Doors:** Provide door hardware for fire-rated openings in compliance with NFPA 80. Provide only hardware which has been tested and listed by UL for the types and sizes of doors required, and complies with the requirements of the door and door frame labels. Provide door hardware for exit doors in compliance with NFPA 101. Hardware shall comply with applicable UL standards for the intended use specified, and be listed in UL, or be labeled and listed by another testing laboratory deemed acceptable by the Owner and Architect.
 1. **Fire-Rated Door Assemblies:** 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 UL10C or NFPA 252.
 - a. **Test Pressure:** After five minutes into the test, the neutral pressure level in the furnace shall be established at 40-inches above the sill.
 2. **Smoke-Rated Door Assemblies:** Assemblies located in smoke partitions or smoke barriers shall comply with UL1784.
- F. **Pre-Installation Conference:** Prior to commencing the installation, meet at the Project site to comply with requirements of Division 01, and to review the material selections, installation procedures, and coordination with other trades. Pre-installation conference shall include, but shall not be limited to, the Contractor, the Installer, manufacturer's representatives, and any trade that requires coordination with the work. Date and

time of the pre-installation conference shall be acceptable to the Owner and the Architect. Review methods and procedures related to electrified door hardware including, but not limited to the following:

1. Inspect and discuss electrical roughing-in and other preparatory work performed by other trades.
2. Review sequence of operation for each type of electrified door hardware.
3. Review scope of each party's work to verify that all work is covered and none is duplicated.
4. Review and finalize construction schedule and verify availability of materials, installer's personnel, equipment and facilities needed to make progress and avoid delays.
5. Review required testing, inspecting and certifying procedures.

- G. Keying Conference: Conduct keying conference at Project site to comply with requirements in Division 01. Attendees shall include, but not be limited to, the Contractor's Project Manager and Superintendent, Owner's Representative, Hardware Subcontractor, and any other participants requested by the Owner. Incorporate keying conference decisions into final keying schedule. Topics discussed shall include, but not be limited to, the following:

1. Function of building, flow of traffic, purpose of each area.
2. Degree of security required.
3. Potential future expansion.
4. Requirements for the Key Control System.
5. Preliminary key system schematic diagram.

- H. Single Source Responsibility: Obtain each kind of hardware (hinges, locksets and latchsets, closers, etc.) from only one manufacturer, even though several may be specified as acceptable.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Acceptance at Site: Package hardware on a set-by-set basis. Two or more identical sets may be packaged in the same container. Tag each item or package separately with identification related to the final hardware schedule. Include basic installation instructions in the package.
- B. Storage and Protection: Provide secure lock-up for hardware. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses, either before or after installation.
- C. Keys: Supply construction master keys to Contractor when cylinders are delivered, for use during construction.
1. Prior to the scheduled completion of the project, manufacturer shall ship all permanent keys, including grand master keys, master keys, change keys, control keys and blank keys directly to the Owner via registered mail or other pre-approved means. Under no circumstance shall any permanent keys be furnished direct to the Contractor.

1.7 MAINTENANCE

- A. Maintenance Tools and Instructions: Furnish a complete set of special tools and maintenance instructions as needed for the Owner's continued maintenance and adjustment of hardware.
- B. Owner's Manual: Furnish one complete set of installation instructions, including special adjusting tools and maintenance instructions listing routine maintenance procedures, possible breakdown and repairs, and troubleshooting guides to the owner. Furnish information in compact disk form, one for each applicable manufacturer; include internet web links for each manufacturer.
1. Furnish one complete three-ring binder catalog for each manufacturer listed in the approved hardware schedule.
 2. Furnish complete biting list indicating how each lock and cylinder on the project is keyed.

1.8 WARRANTIES

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fails in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including excessive deflection, cracking or breakage.
 - b. Faulty operation of operators and door hardware.
 - c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
 - 2. Warranty Periods:
 - a. Manual Closers: Minimum of ten (10) years from date of Substantial Completion.
 - b. Exit Devices: Minimum of three (3) years from date of Substantial Completion.
 - c. Continuous Hinges: Minimum of the (10) years from date of Substantial Completion.
 - d. All other hardware: Two (2) years from date of Substantial Completion.

PART 2 - PRODUCTS

- 2.1 MANUFACTURERS: All hardware for each item shall be by one manufacturer unless otherwise specified. Items indicated with an asterisk (*) are the basis of design products used in the hardware schedule.
- 2.2 MATERIALS
 - A. Fasteners: Where through bolts are specified for composite filled wood faced fire doors, furnish sex bolts sized to the thickness of the door so that when tightened, compression of the door will not occur. Wood screws shall be full threaded. Expansion screws shall be of the double cinch anchor type. All screw heads shall be countersunk oval or flat head as appropriate and, when necessary to accommodate the thickness of material, undercut. Material of fasteners shall be ferrous or non-ferrous compatible with the product being applied. Length of fasteners shall be sufficient to afford adequate thread engagement. Finish of exposed fasteners shall match item being fastened.
 - B. Base Metals: Produce hardware units of basic metal and forming method indicated, using manufacturer's standard metal alloy, composition, temper and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware units by applicable ANSI A156 series standard for each type hardware item and with ANSI A156.18 for finish designations indicated. Do not furnish "optional" materials or forming methods for those indicated, except as otherwise specified.
 - C. Butt Hinges: Provide 4-1/2 inch by 4-1/2 inch size with non-removable pins for out swinging doors with locks unless otherwise specified. Provide non-rising pins elsewhere. Provide number of hinges indicated but not less than three hinges per door leaf for doors 90 inches or less in height and one additional hinge for each 30 inches of additional height. Provide 5 inch by 4-1/2-inch hinges on doors greater than 3'0" in width. Where wide throw hinges are specified in the hardware sets, provide proper hinge width for necessary clearance required.
 - 1. Standard Weight, Full Mortise, Steel:
 - a. Bommer Industries
 - b. Hager
 - c. McKinney Products Co.; Division of Assa-Abloy
 - d. Stanley; Division of Dormakaba USA, Inc.*
 - 2. Standard Weight, Full Mortise, Ball Bearing, Steel:
 - a. Bommer Industries
 - b. Hager
 - c. McKinney Products Co.; Division of Assa-Abloy
 - d. Stanley, Division of Dormakaba USA, Inc.*
 - 3. Standard Weight, Full Mortise, Ball Bearing, Brass:
 - a. Bommer Industries
 - b. Hager
 - c. McKinney Products Co.; Division of Assa-Abloy
 - d. Stanley; Division of Dormakaba USA, Inc.*
 - 4. Heavy Weight, Full Mortise, Ball Bearing, Steel:
 - a. Bommer Industries

- b. Hager
 - c. McKinney Products Co.; Division of Assa-Abloy
 - d. Stanley; Division of Dormakaba USA, Inc.*
 - 5. Heavy Weight, Full Mortise, Ball Bearing, Brass/Stainless Steel:
 - a. Bommer Industries
 - b. Hager
 - c. McKinney Products Co.; Division of Assa-Abloy
 - d. Stanley; Division of Dormakaba USA, Inc.*
- D. Gear Type Continuous Hinges: Provide ANSI Grade 1, UL listed aluminum gear type continuous hinges. Hinges to be fire rated up to 3 hours.
 - 1. Size of hinges: 1" less than door height.
 - 2. Full Concealed Continuous Hinges:
 - a. Hager
 - b. Markar; Division of Assa-Abloy
 - c. Stanley; Division of Dormakaba USA, Inc.*
 - d. ZERO International
- E. Offset Pivots: Provide ¾" offset pivot sets that support a minimum 440-pound door and up to 4'0" wide doors. Sets to include top and bottom pivots. Provide fire rated pivots at fire rated openings. Provide one intermediate pivot on doors up to 8'0" in height and two intermediate pivots on doors greater than 8'0" in height. Provide one of the following products:
 - 1. Non-Rated Pivot Sets:
 - a. ABH Manufacturing
 - b. Dormakaba USA, Inc.*
 - c. Ives; Division of Allegion
 - d. Rixson; Division of Assa-Abloy
 - 2. Fire-Rated Pivot Sets
 - a. ABH Manufacturing
 - b. Dormakaba USA, Inc.*
 - c. Ives; Division of Allegion
 - d. Rixson; Division of Assa-Abloy
 - 3. Non-Rated Intermediate Pivots:
 - a. ABH Manufacturing
 - b. Dormakaba USA, Inc.*
 - c. Ives; Division of Allegion
 - d. Rixson; Division of Assa-Abloy
 - 4. "Fire-Rated Intermediate Pivots:
 - a. ABH Manufacturing
 - b. Dormakaba USA, Inc.*
 - c. Ives; Division of Allegion
 - d. Rixson; Division of Assa-Abloy
- F. Locksets and Latchsets: Provide 2-3/4 inch backset, strikes with 1-1/4 inch lip, and wrought strike boxes.
 - 1. Grade 1 – Cylindrical Locksets and Latchsets: Provide 5/8" minimum throw of latch on pairs of doors. Comply with UL requirements for throw of latch bolts on fire rated openings. Furnish strike with curved lip extended to protect frame.
 - a. Best Access Systems; Division of Dormakaba USA, Inc.*
 - b. DORMA; Division of Dormakaba USA, Inc.
 - c. Sargent Architectural Hardware, Division of Assa-Abloy
 - d. Schlage Lock; Division of Allegion
- G. Interchangeable Core Cylinders: Provide small format interchangeable core cylinders with appropriate cam or tailpiece. Stamp key control symbol in concealed place on each permanent core. Provide keyed temporary cores at exterior doors and at interior locations as required by the contractor. Provide all other cylinders with plastic temporary cores. Provide one of the following manufacturers of cylinders:

1. Best Access Systems; Division of Dormakaba USA, Inc.*
- H. Keys and Keying:
1. Keys: Provide the following number of keys in nickel silver:
 - a. Change Keys: Three per cylinder. Stamp with key change number.
 - b. Master Keys: Five per group. Stamp "DO NOT DUPLICATE"
 - c. Grand Master Keys: Three each. Stamp "DO NOT DUPLICATE".
 - d. Blank Keys: Thirty each.
 - e. Construction Master Keys: Ten (for use during construction).
 2. Key Control System: Provide a key control system including the following: Envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and welded heavy gauge steel cabinet with piano hinged door; all as recommended by system manufacturer. Provide capacity for 150% of the number of locks required for the project.
 - a. MMF Industries
 - b. Lund
 - c. Telkee
 3. Keying: Set locks and cylinders to a new [master] [grand master] [great grand master] key system. The Owner will furnish final keying requirements. Provide for expansion by one [master] [grand master]. Key system summary, cover sheet, and letter of authorization shall accompany keying schedule and purchase order sent to factory. Provide one of the following systems:
 - a. "Cormax"; Best Access Systems; Division of Dormakaba USA, Inc.*
 - b. "Pyramid", Corbin Russwin Architectural Hardware; Division of Assa Abloy
 - c. "D100 –SKC", DORMA Architectural Hardware
 - d. "Signature", Sargent Architectural Hardware; Division of Assa Abloy.
 - e. "Primus"; Schlage Lock; Division of Allegion
- I. Bolts:
1. Manual Flush Bolts: Provide standard 12" rods on bottom bolts. Locate top bolts approximately six feet above finished floor. Furnish dust proof strikes for floor or threshold application.
 - a. Don-Jo Manufacturing
 - b. Door Controls International
 - c. Hager
 - d. Trimco*
 2. Automatic Flush Bolts:
 - a. Metal Doors: Provide set of bolts for metal doors with dustproof strike for floor or threshold application.
 - 1) Don-Jo Manufacturing
 - 2) Door Controls International.
 - 3) Trimco*
 - b. Wood Doors: Provide set of bolts for wood doors with dustproof strike for floor or threshold application.
 - 1) Don-Jo Manufacturing
 - 2) Door Controls International.
 - 3) Hager
 - 4) Trimco
- J. Exit Devices: Exit devices shall be type and function as listed in hardware sets. Use fire exit hardware where exit devices are scheduled for fire door assemblies. Where lever handle trim is specified, match lever trim on locksets. Furnish freewheeling lever trim as standard. Provide cylinder dogging on all non-rated devices. Furnish all devices with ¾" throw deadlocking latchbolts.
1. Wide Stile Devices: Provide heavy duty touchbar devices
 - a. DORMA Division of Dormakaba USA, Inc.
 - b. Precision Manufacturing; Division of Dormakaba USA, Inc.*

- c. Sargent Manufacturing; Division of Assa Abloy
 - d. Von Duprin; Division of Ingersoll-Rand
 - 2. Narrow Stile Devices:
 - a. DORMA Division of Dormakaba USA, Inc.
 - b. Precision Manufacturing; Division of Dormakaba USA, Inc.*
 - c. Sargent Manufacturing; Division of Assa Abloy
 - d. Von Duprin; Division of Allegion
- K. Push/Pulls:
 - 1. Push Plates: 16-gauge, square corners beveled four sides, 4-inch x 16 inch unless otherwise noted.
 - a. Don-Jo Manufacturing
 - b. Hager
 - c. Rockwood Mfg.; Division of Assa-Abloy
 - d. Trimco*
 - 2. Pulls: ¾ inch diameter pull, 8-inch center to center. Where pull plates are specified, mount pulls below onto plates above.
 - a. Don-Jo Manufacturing
 - b. Hager
 - c. Rockwood Mfg; Division of Assa Abloy
 - d. Trimco*
- L. Surface Closers: Provide closers with adjustable spring power from sizes 1 through 6. Opening force shall comply with ADA and ANSI A117.1 where indicated with "Barrier Free" closers in the hardware sets. Closers must have separate adjustments for latch speed, sweep speed and backcheck. Provide all closers with delayed action. Closers installed parallel arm to be supplied with heavy-duty rigid arms. Furnish non-handed closers with full plastic cover unless otherwise noted in the hardware sets. Where "IS" or "S-IS" arms are specified in hardware sets, if manufacturer does not offer this arm provide a regular arm mount closer in conjunction with a heavy-duty overhead stop equal to a DORMA 900 Series. Provide brackets, drop plates, spacer blocks and accessories to ensure proper installation. Closers, covers, brackets and other components shall not extend below bottom of top horizontal rail of door. Use manufacturer's chart for recommended sizes when adjusting closers. Provide one of the following heavy-duty closers:
 - 1. DORMA; Dormakaba USA, Inc.*
 - 2. LCN; Division of Allegion
 - 3. Sargent Architectural Hardware.; Division of Assa-Abloy
 - 4. Stanley Door Controls; Dormakaba USA, Inc.*
- M. Power-Assist Low Energy Operators: Provide low energy operators that operate manually unless power-assist is activated and when power is lost. Operators shall comply with ANSI A156.19. Activation of power-assist will open the door to 90 degrees. Provide actuators as specified in hardware sets. Coordinate electrical connection and installation with Division 26. Provide operators with the following:
 - 1. Heavy-duty commercial construction with electromechanical power-assist operation.
 - 2. Micro-processor controlled
 - 3. Adjustable opening speed, adjustable closing speed, and adjustable hold-open period.
 - 4. Safety-stop feature: If object or obstruction is encountered during opening and/or closing cycles, door operator stops and slowly returns to closed or open position respectively.
 - 5. Safety circuit: If actuator switch is activated when door is latched or locked, operator resets without damage to door or operator
 - 6. Full continuous cover for pair of operators on pair of doors, or for single operator and hydraulic closer on pair of doors.
 - 7. Detailed wiring diagrams including point-to-point hookup of all affected components.
 - 8. Provide one of the following operators:
 - a. DORMA; Division of Dormakaba USA, Inc.*
 - b. Gyro-Tech; Division of Nabco Entrances
 - c. LCN; Division of Allegion
 - d. Precision Hardware, Inc.; Division of Dormakaba USA, Inc.

- N. Overhead Stops/Holders: No overhead stops or holders with plastic parts will be acceptable.
1. Heavy Duty:
 - a. ABH Manufacturing
 - b. DORMA; Division of Dormakaba USA, Inc.*
 - c. Glynn-Johnson; Division of Allegion
 2. Standard Duty:
 - a. ABH Manufacturing
 - b. DORMA; Division of Dormakaba USA, Inc.*
 - c. Glynn-Johnson; Division of Allegion
- O. Door Control Devices:
1. Coordinator: Provide integral device mounted at header, complete with closer brackets as required. Provide with filler brackets as required for full opening width.
 - a. ABH Manufacturing
 - b. Don-Jo Manufacturing.
 - c. Door Controls International.
 - d. Trimco*
 2. Wall Bumpers:
 - a. Don-Jo Manufacturing.
 - b. Hager
 - c. Trimco*
 3. Door Stops:
 - a. Low Dome Floor Stops:
 - 1) Don-Jo Manufacturing
 - 2) Hager
 - 3) Trimco*
 - b. High Dome Floor Stops:
 - 1) Don-Jo Manufacturing
 - 2) Hager
 - 3) Trimco*
 - c. Heavy Duty Floor Stops:
 - 1) ABH Manufacturing
 - 2) Don-Jo Manufacturing
 - 3) Hager
 - 4) Trimco*
 4. Silencers:
 - a. ABH Manufacturing
 - b. Don-Jo Manufacturing.
 - c. Hager
 - d. Trimco*
- P. Door Trim Units:
1. Kick Plates: 0.050-inch-thick minimum, 10 inches high by 2 inches less than door width on single doors, 1 inch less than door width on pairs of doors, beveled four sides. Furnish all countersunk screws. Install on Push side of door.
 - a. Don-Jo Manufacturing
 - b. Hager
 - c. Trimco*
- Q. Weatherstripping and Seals:
1. Weatherstripping: Furnish weatherstripping constructed of extruded aluminum clear anodized with nylon brush.
 - a. K.N. Crowder Mfg.
 - b. National Guard Products, Inc.*
 - c. PEMKO Manufacturing
 2. Gasket: Silicone door gasket, UL-listed.

- a. K.N. Crowder Mfg.
- b. National Guard Products, Inc.*
- c. PEMKO Manufacturing
3. Sound Seal:
 - a. Head and Jamb Strip: Sponge Neoprene
 - 1) K.N. Crowder Mfg.
 - 2) National Guard Products, Inc.*
 - 3) PEMKO Manufacturing
 - b. Automatic Door Bottom:
 - 1) K.N. Crowder, Inc.
 - 2) National Guard Products, Inc.*
 - 3) PEMKO Manufacturing
4. Door Sweeps: Furnish door sweeps constructed of aluminum clear anodized with gray nylon brush.
 - a. K.N. Crowder Mfg.
 - b. National Guard Products, Inc.*
 - c. PEMKO Manufacturing

R. Thresholds: Extruded aluminum, ½ inch x 5 inch.

1. K.N. Crowder Mfg.
2. National Guard Products, Inc.*
3. PEMKO Manufacturing.

S. Thresholds: Extruded aluminum, ½ inch x 5 inch with neoprene seal.

1. National Guard*
2. PEMKO Manufacturing
3. Reese Enterprises

T. Power Transfers: Provide one of the following products:

1. ABH Manufacturing
2. DORMA; Division of Dormakaba USA, Inc.
3. Precision; Division of Dormakaba USA, Inc.*

2.3 FINISHES

A. Except as otherwise noted in the hardware sets, provide the following finishes:

- | | | |
|--------------------------------------|---------|-------------------------|
| 1. Exterior Hinges | 630 | (Stainless Steel) |
| 2. Interior Hinges | 652 | (Satin Chrome) |
| 3. Continuous Hinges | 628 | (Aluminum) |
| 4. Locks, Latches, Deadlocks | 626 | (Satin Chrome) |
| 5. Exit Devices | 630 | (Stainless Steel) |
| 6. Closers and Brackets | 689 | (Sprayed Aluminum) |
| 7. Push, Pull, Kick and Armor Plates | 630 | (Stainless Steel) |
| 8. Wall Stops | 630 | (Stainless Steel) |
| 9. Floor Stops | 626 | (Satin Chrome) |
| 10. Overhead Stops | 652/626 | (Satin Chrome) |
| 11. Thresholds, Weatherstrip, etc. | | Clear Anodized Aluminum |

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 for the applicable units of hardware by referenced standards.

C. Provide finishes that match those established by BHMA or, if none established, match the Architect's sample.

- D. Provide protective lacquer coating on exposed hardware finishes of brass, bronze, and aluminum, except as otherwise indicated.
- E. The designations used in schedules and elsewhere to indicate hardware finishes are those listed in ANSI/BHMA A156.18, including, but not limited to, coordination with the traditional U.S. finishes shown by certain manufacturers for their products.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: Examine areas and conditions under which the work is to be installed, and notify the Contractor in writing, with a copy to the Owner and the Architect, of any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.
 - 1. Beginning of the work shall indicate acceptance of the areas and conditions as satisfactory by the Installer.

3.2 STORAGE AND HANDLING

- A. Representatives of the Contractor and Hardware Supplier shall jointly inventory the door hardware. Replace items damaged in shipment promptly and with proper material without additional cost to the Contractor. Handle all hardware in a manner to eliminate marring, scratching or damage.
 - 1. Set aside a dry, locked storage space complete with adequate shelving for unpacking, sorting, checking and storage of the hardware. Control the handling and installation of hardware items, whether immediately replaceable or not, so completion of the work will not be delayed by losses before or after installation.
 - 2. Tag each item, or package separately, with identification related to the final approved hardware schedule, and include basic installation instructions in the package. Provide hardware items of proper design for use on doors and frames of thickness, profile, swing, security and similar requirements indicated as necessary for proper installation and function.

3.3 COORDINATION

- A. Coordinate Door Hardware Schedule submission and hardware ordering to insure delivery of all items as directed by the Contractor.
 - 1. Prior to ordering any hardware, examine the shop drawings and details of doors and frames and other substrate suppliers to determine that the proper type and size pieces of hardware are being provided. No extra material or labor will be allowed for any corrections that should have been eliminated by proper prior coordination.
- B. Templates: Distribute door hardware templates for doors, frames and other work specified to be factory prepared for installing door hardware. Check shop drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Electrical System Rough-In: Coordinate layout and installation of electrified door hardware with connections to power supplies, fire alarm system and detection devices, and access control system.

3.4 INSTALLATION

- A. Installation shall be in accordance with the final approved hardware schedule and manufacturer's written instructions and recommendations. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in some other way, coordinate removal, storage, and installation or application of surface protections with finishing work specified in Division 9 - FINISHES. Do not install surface-mounted items until finishes have been completed on the substrate.

- B. Mount hardware units at heights indicated in following applicable publications, except as specifically indicated or required to comply with governing regulations and except as otherwise directed by the Architect.
 - 1. Standard Steel Doors and Frames: DHI RLAHSSDF.
 - 2. Custom Steel Doors and Frames: DHI RLBHCSDF.
 - 3. Flush Wood Doors: WDMA I.S. 1.
- C. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- D. Drill and countersink units that are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- E. Hardware Mounting Heights:
 - 1. Provide heights as indicated on Drawings, except as otherwise required for compliance with governing regulations.
 - 2. Where heights are not indicated, comply with mounting requirements of DHI's "Recommended Locations for Builders' Hardware".
- F. Hinges:
 - 1. Install steel doors and wood doors to comply with reference standards, as specified in door sections.
 - 2. Where shimming is required to comply with tolerances, provide metal shims only.
- G. Closers:
 - 1. Do not install parallel arm closers until after weatherstripping or seals have been installed on header (where weatherstripping or seals are scheduled).
 - 2. Do not cut weatherstripping or seals for attachment of closer brackets or shoes.
 - 3. Adjust closers to control door swing and to provide positive latching of doors.
 - a. Adjust closers not to exceed the following manual opening forces:
 - 1) Exterior Doors: As required to close and latch each leaf.
 - 2) Interior Doors (Non-Fire Rated): Maximum 5-pound opening force.
 - 3) Fire Rated Doors: As required to close and latch each leaf.
 - b. After air handling system has been balanced, make final adjustment of all closers.
- H. Door Stops:
 - 1. Install stops for maximum degree of door opening swing allowed by conditions of installation.
 - 2. Locate floor stops so as not to create a tripping hazard.
 - 3. Locate wall stops centered on spindle of lever handles.
 - a. Verify adequate blocking is in wall behind wall stops.
- I. Weatherstripping and Seals:
 - 1. Install continuous around door head and jambs, and meeting stiles of pairs of doors.
 - 2. Install bottom weatherstripping and automatic door bottoms for full width of door.
 - 3. Do not cut weatherstripping or seals for attachment of closer brackets or shoes.
 - 4. Align rain drips with the bottom edge of the door frame rabbet, set in a bed of sealant, and attach with stainless steel fasteners.
- J. Thresholds:
 - 1. Set thresholds for exterior doors in full bed of butyl rubber or polyisobutylene mastic sealant.
- K. Key Cabinet:
 - 1. Install in accordance with manufacturer's instructions in location as directed. Instruct the Owner in the use of the key control system.
 - 2. Tag all keys and install neatly in the key cabinet. Submit documentation of keying compliance including copies of signed transmittals for all building keys and cabinet provided by the Hardware Supplier.

3.5 ADJUSTING AND CLEANING

- A. Adjusting: Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly as intended for application made.
- B. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy of a space or area, return to the work during the week prior to acceptance or occupancy and make a final check and adjustment of hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.
 - 1. During the final adjustment of hardware, instruct the Owner's personnel in proper use of special tools and adjustment and maintenance of hardware and hardware finishes.
 - 2. Prior to acceptance of any electrical hardware system, perform an operational test to determine if devices are functioning as intended by the specifications. Test all wiring for correct voltage, current carrying capacity, and proper grounding. Eliminate stray voltages in lock wiring to prevent locking devices from releasing in critical situations.
- C. Readjustment: Approximately six months after the date of Substantial Completion, the Installer, accompanied by representatives of the manufacturers of latchsets and locksets and of door control devices, and of other major door hardware suppliers, shall return to the Project to 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 the 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.
- D. Cleaning: Clean adjacent surfaces soiled by hardware installation.

3.6 HARDWARE SCHEDULE

- 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.
- B. The supplier is responsible for handing and sizing all products as listed in the door hardware sets. Quantities listed are for each pair of doors, or for each single door.
- C. Manufacturer's Abbreviations:

<u>Code</u>	<u>Name</u>
AD	Adams Rite
BE	Best Access Systems
BY	By Others
DM	Dorma Door Controls
NA	National Guard
PR	Precision
SD	Stanley Door Closers
ST	Stanley

TR Trimco

D. Finish List:

<u>Code</u>	<u>Description</u>
AL	Aluminum
600	Primed for Painting
626, US26D	Satin Chromium Plated
628	Satin Aluminum, Clear Anodized
630	Satin Stainless Steel
689	Aluminum Painted

Hardware Sets

SET #01 – each opening to have:

3 Hinges	FBF168 4 1/2 X 4 1/2	US26D	ST
1 Office Function Lock	9K3-7A15C PREM	626	BE
1 Closer	8916 A89 PULL SIDE MOUNT	689	DM
1 Kick Plate	KO050 8" x 2" LDW B4E C-SUNK HOLES	630	TR
1 Floor Stop	1211	626	TR
1 Gasketing	5050 B @ HEAD AND JAMBS		NA
1 Threshold	AS DETAILED		

SET #02 – each opening to have:

3 Hinges	FBF168 4 1/2 X 4 1/2	US26D	ST
1 Privacy Set	9K3-0L15C	626	BE
1 Closer	8916 A89 PULL SIDE MOUNT	689	DM
2 Kick Plates	KO050 8" x 2" LDW B4E C-SUNK HOLES	630	TR
1 Gasketing	5050 B @ HEAD AND JAMBS		NA
1 Threshold	AS DETAILED		BY

SET #03 – each opening to have:

3 Hinges	FBF168 4 1/2 X 4 1/2	US26D	ST
1 Storeroom Function Lock	9K3-7D15C PATD	626	BE
1 Closer	8916 SDS PUSH SIDE MOUNT STOP ARM	689	DM
1 Kick Plate	KO050 8" x 2" LDW B4E C-SUNK HOLES	630	TR
1 Gasketing	5050 B @ HEAD AND JAMBS		NA
1 Threshold	AS DETAILED		BY

SET #03A – each opening to have:

3 Hinges	FBF168 4 1/2 X 4 1/2	US26D	ST
1 Storeroom Function Lock	9K3-7D15C PATD	626	BE
1 Closer	8916 A89 PULL SIDE MOUNT	689	DM
1 Kick Plate	KO050 8" x 2" LDW B4E C-SUNK HOLES	630	TR
1 Floor Stop	1211	626	TR
1 Gasketing	5050 B @ HEAD AND JAMBS		NA
1 Threshold	AS DETAILED		BY

Set #04 - EXIT DEVICE PR CR INTERIOR

2 Continuous Hinge	662HD UL EPT PREP x HEIGHT REQUIRED	AL	ST
2 Power Transfer	EPT-12C		PR
1 Removable Mullion	KR822 MCS	689	PR
1 Exit Device	C MLR TS 2103 CA-03	630	PR
1 Exit Device	C MLR TS 2103630		PR
2 Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
2 Construction Core	7190224		BE
1 Rim Cylinder	12E-72 PATD	626	BE
1 Mortise Cylinder	1E-74 PATD	626	BE
2 Door Pull	1191-3	630	TR
2 Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
2 Door Position Switch	MC4		DM
1 Power Supply	RPSMLR2BB		PR
1 Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		BY
2 Harness	WH-192P		ST
2 Harness	WH-6		ST
2 Harness	WH-12P		ST
2 Door Sweep	DOOR SWEEP PROVIDED WITH ALUM DOOR		

		AND FRAME MFG		BY
1	Weatherstrip	WEATHERSTRIP PROVIDED BY ALUM DOOR		
		AND FRAME MFG	628	BY

Note:

1. Exit devices equipped with motorized latch retraction exit device
2. Card reader to release exit device for authorized entry.
3. Always free egress

Set #05 - EXIT DEVICE PR CR STAIR

2	Continuous Hinge	662HD UL EPT PREP x HEIGHT REQUIRED	AL	ST
2	Power Transfer	EPT-12C	PR	
1	Removable Mullion	KR822 MCS	689	PR
2	Exit Device	C FL TS E2103 X 4908A FS (Electrified Lever)	630	PR
3	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
3	Construction Core	7190224		BE
2	Rim Cylinder	12E-72 PATD	626	BE
1	Mortise Cylinder	1E-74 PATD	626	BE
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		BY
2	Door Position Switch	MC4		DM
1	Power Supply	DKPS-2A		DM
2	Harness	WH-192P		ST
2	Harness	WH-6		ST
2	Harness	WH-12P		ST
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
2	Gasketing	5050 B @ HEAD AND JAMBS		NA
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA

Note:

1. Exit devices equipped with 'fail safe' electrified lever trim.
2. Card reader to release exit device for authorized entry.
3. In a fire alarm, locks with fail safe lever trim unlock but remain latched.
4. Always free egress.

Set #EX01 - EXIT DEVICE PR CR EXTERIOR

2	Continuous Hinge	662HD UL EPT PREP x HEIGHT REQUIRED	AL	ST
2	Power Transfer	EPT-12C		PR
1	Removable Mullion	KR822 MCS	689	PR
1	Exit Device	C MLR TS 2103 CA-03	630	PR
1	Exit Device	C MLR TS 2103630	PR	
2	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
2	Construction Core	7190224	BE	
1	Rim Cylinder	12E-72 PATD	626	BE
1	Mortise Cylinder	1E-74 PATD	626	BE
2	Door Pull	1191-3	630	TR
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
2	Door Position Switch	MC4		DM
1	Power Supply	RPSMLR2BB		PR
1	Drip Cap	16A WIDTH TO SUIT		NA
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		BY
1	Intercom System	INTERCOM SYSTEM		BY
2	Harness	WH-192P		ST
2	Harness	WH-6		ST
2	Harness	WH-12P		ST

2	Door Sweep	DOOR SWEEP PROVIDED WITH ALUM DOOR AND FRAME MFG		BY
2	Weatherstrip	WEATHERSTRIP PROVIDED BY ALUM DOOR AND FRAME MFG	628	BY
1	Threshold	AS DETAILED		BY

Note:

1. Exit devices equipped with motorized latch retraction exit device
2. Card reader to release exit device for authorized entry.
3. Intercom call system to alert remote desk attendant to buzz visitors into the building.
4. Always free egress

SET #EXT 02 – each opening to have:

2	Continuous Hinges	662HD UL x EPT PREP x HEIGHT REQUIRED	AL	ST
2	Exit Devices	MLR TDS 2803 x 4903	630	PR
2	Cylinders	BEST CYLINDER AND TEMP CORE AS REQUIRED	626	BE
2	Closers	8916 SDS PUSH SIDE MOUNT STOP ARM	689	DM
2	Power Transfers	EPT 12C		PR
1	Access Control Device	ACCESS CONTROL BY SECURITY VENDOR		BY
2	Door Position Switches	DPS BY SECURITY VENDOR		BY
1	Power Supply	RPSMLR2		PR
1	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Gasketing	700 NA @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

Access Control devices, Door Position Switches, Power Supplies (except for electrified exit device), Remote Releases where indicated and related accessories by Security Vendor. Prep door and frame for door position switch, as required. Coordinate wiring with all trades.

Operation Narrative:

- 1) Doors shall be normally closed and locked.
- 2) Valid card read will permit entry by momentarily retract latch of exit device and disable the concealed switch.
- 3) Depressing push bar of exit device in the path of egress will activate the request to exit switch and momentarily disable the concealed switch allowing authorized egress at all times.

END OF SECTION 087100

2024 WLHS PPS PROJECT

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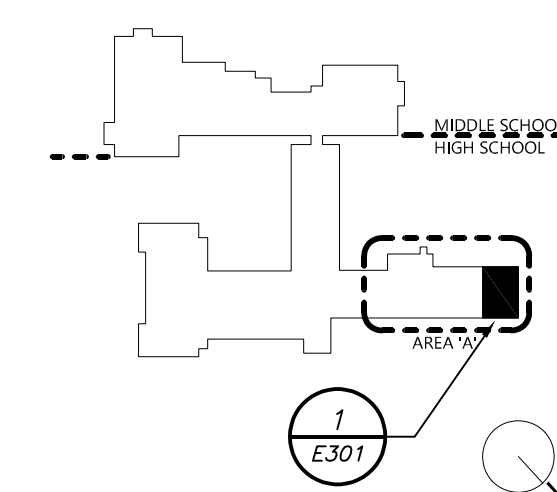
SITE-CIVIL CONSULTANT
THE LA GROUP
40 LONG ALLEY
SARATOGA SPRINGS, NY 12866

SECURITY CONSULTANT
BUILDING TECHNOLOGY CONSULTING
992 BEDFORD STREET
BRIDGEWATER, MA 02324

SEAL

BID ADDENDUM 1	07/03/2024
ISSUED FOR BID	06/21/2024
ISSUE	DATE

KEY PLAN



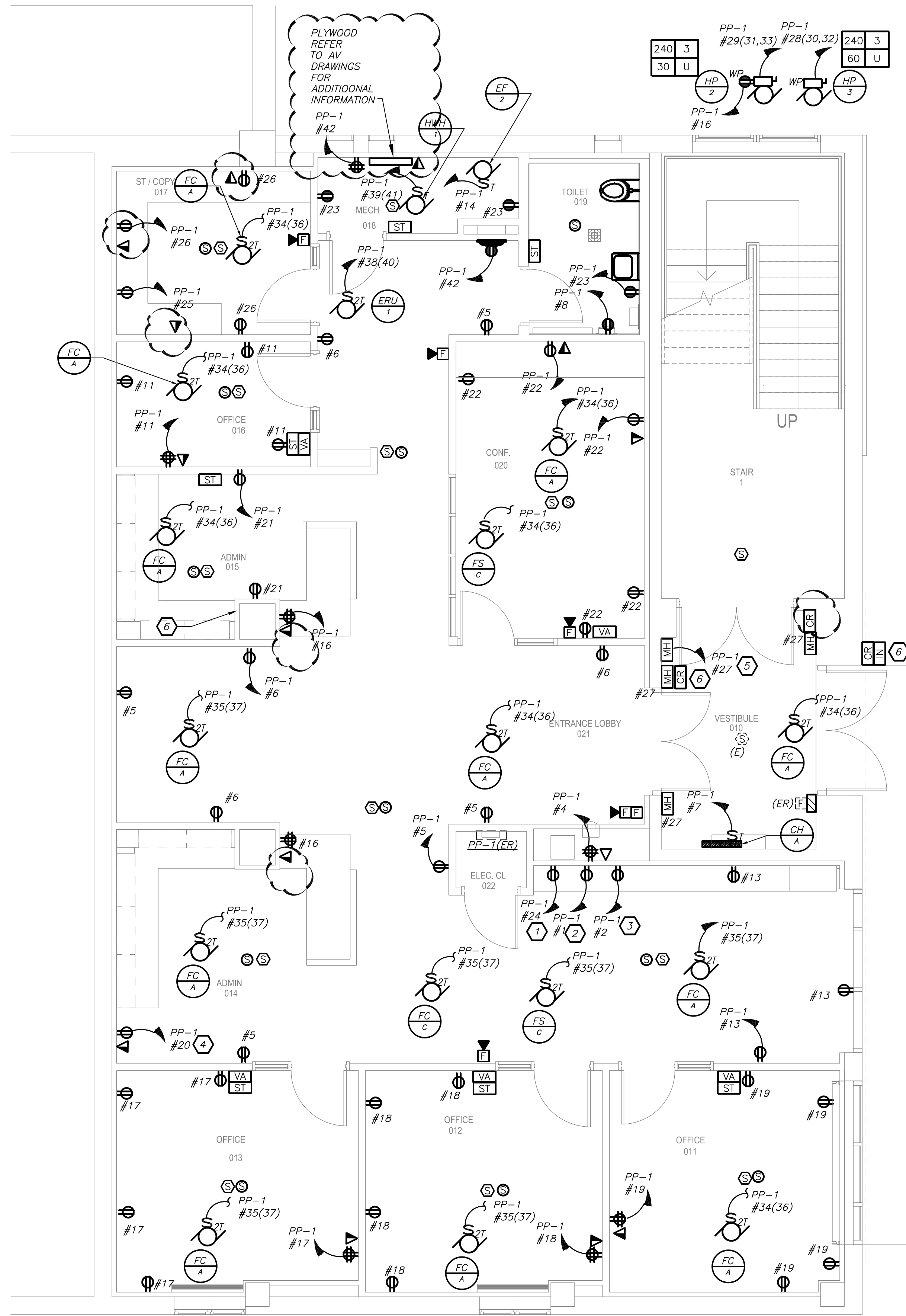
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MEMASI PROJECT NO.	107-220

E301

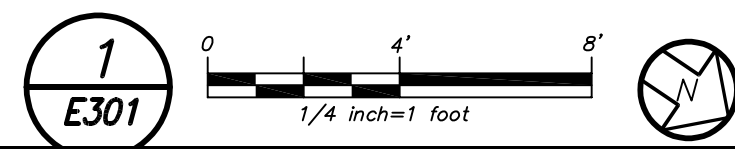
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WORK NOTES:

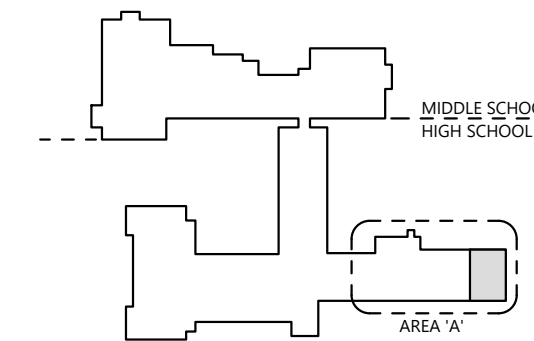
- ① DEDICATED CIRCUIT FOR REFRIGERATOR. EC TO COORDINATE EXACT LOCATION BEFORE THE START OF WORK.
- ② DEDICATED CIRCUIT FOR MICROWAVE. EC TO COORDINATE EXACT LOCATION BEFORE THE START OF WORK.
- ③ DEDICATED CIRCUIT FOR COFFEE MAKER. EC TO COORDINATE EXACT LOCATION BEFORE THE START OF WORK.
- ④ DEDICATED CIRCUIT FOR COPIER. EC TO COORDINATE EXACT LOCATION BEFORE THE START OF WORK.
- ⑤ PROVIDE 2X12+1#12G IN 3/4" C FOR WALL MOUNTED MAGNETIC DOOR HOLDERS. TO CIRCUIT PP-1 #27 CIRCUIT. PROVIDE DOOR HOLDER EXTENSION BAR AS REQ'D AND NECESSARY.
- ⑥ SCAL SHALL REFER TO SECURITY CONSULTANT T-SERIES DRAWINGS FOR CONDUIT AND WIRING INFORMATION FOR SECURITY SCOPE OF WORK. EC SHALL INCLUDE SCOPE OF ASSOCIATED WITH SECURITY INCLUDING BUT NOT LIMITED TO CARD READERS, INTERCOM, ACCESS CONTROL, ELECTRIC STRIKE.



HIGH SCHOOL PPS POWER PLAN (NEW WORK)



BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS



SECURITY SPECIFICATION

1. GENERAL

- A. THE WORK COVERED CONSISTS OF:
- FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION, THE ACCESS CONTROL SYSTEM FOR THE MOUNT PLEASANT 2024 WHS PPS PROJECT.
- B. SHOP DRAWINGS OF ALL SPECIFIED FIXTURES, EQUIPMENT AND APPARATUS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- C. CODES: ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE SECURITY SUBCONTRACTS AND LABOR PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE NEW YORK STATE BUILDING, THE CITY OF THORNWOOD, NATIONAL FIRE PROTECTION ASSOCIATION, ANSIEI/ATIA STANDARDS AND INSURANCE REGULATIONS AND REQUIREMENTS GOVERNING SUCH WORK.
- D. PERMITS, CERTIFICATIONS, REVIEWS, APPROVALS: ANY AND ALL PERMITS, CERTIFICATIONS, REVIEWS OR APPROVALS REQUIRED FOR INSTALLATION OF ANY MATERIAL OR SYSTEM SHALL BE OBTAINED AS PART OF THE WORK OF THE SPECIFICATION INCLUDING ALL FEES OR EXPENSES INCURRED.
- E. GUARANTEE: ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED SHALL BE GUARANTEED IN WRITING FOR ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE BUILDING BY THE OWNER.
- F. RECORD DRAWINGS: THE SECURITY SUBCONTRACTOR SHALL MAINTAIN AT THE JOB, AT ALL TIMES, A COMPLETE AND SEPARATE SET OF BLACK LINE PRINTS OF THE SECURITY DRAWINGS OF HIS TRADE ON WHICH HE SHALL MARK CLEARLY, NEATLY, ACCURATELY AND PROMPTLY AS THE WORK PROGRESSES. SEPIA REPRODUCIBLE "AS-BUILTS" SHALL BE FURNISHED BY THE SECURITY SUBCONTRACTOR AT THE JOB COMPLETION.
- G. INSPECTION: ALL WORK SHALL BE SUBJECT TO THE INSPECTION OF THE OWNER, THE ENGINEER AND SUCH OTHER INSPECTORS HAVING JURISDICTION. A PROPERLY EXECUTED CERTIFICATE OF INSPECTION SHALL BE PROVIDED.
- H. TESTS: THE SECURITY SUBCONTRACTOR SHALL PERFORM ALL TESTS AT THE COMPLETION OF THE WORK AND THE RESULTS FURNISHED TO THE OWNER AND ENGINEER IN WRITING.
- I. UPON COMPLETION OF ALL WORK, THE SECURITY SUBCONTRACTOR SHALL FURNISH, IN DUPLICATE, CERTIFICATES OF INSPECTIONS FROM ALL INSPECTORS AND AUTHORITIES HAVING JURISDICTION.

2. SCOPE

- A. THE WORK OF THIS SECTION CONSISTS OF ALL LABOR, MATERIALS AND SUPPORT EQUIPMENT AS INDICATED. CONTRACTOR IS REQUIRED TO PROVIDE ALL SECURITY WORK, NOT SPECIFICALLY DESCRIBED IN OTHER TRADES, COMPLETE ALL WORK AS SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS NECESSARY FOR A PROPER INSTALLATION.
- B. PROVIDE PROXIMITY CARD READERS, CONCEALED DOOR POSITION SWITCHES AND REQUEST-TO-EXIT MOTION SENSORS AS INDICATED ON THE SECURITY DEVICE DRAWINGS.
- C. DOOR CONTACTS SHALL BE WIRED TO BOTH THE DSC INTRUSION PANEL AND THE ACCESS CONTROL PANEL SIMULTANEOUSLY VIA A DPDT DOOR CONTACTS.
- D. PROVIDE MANUFACTURES RECOMMENDED POWER SUPPLIES AS REQUIRED. THE POWER SUPPLIES SHALL BE UL CLASS II, POWER LIMITED AND SHALL PROVIDE NECESSARY OUTPUT VOLTAGES TO ALLOW THE CARD READERS TO OPERATE AT MAXIMUM SPECIFIED READ RANGE.

3. ALL CARD READERS SHALL MEET THE FOLLOWING REQUIREMENTS:

- A. THE CARD READER SHALL BE PROXIMITY TECHNOLOGY AND SHALL READ ENCODED DATA FROM ACCESS CARDS AND TRANSMIT THE DATA TO THE DATA GATHERING PANEL. THE OPERATING FREQUENCY SHALL MEET ALL LOCAL REGULATIONS.
- B. A TWO-COLOR LED AND AN AUDIBLE TONE SHALL INDICATE AUTHORIZED AND UNAUTHORIZED READER USES. OPERATION OF LEDS, AND AUDIBLE TONES SHALL BE CONSISTENT THROUGHOUT.
- C. THE CARD READER AND BIT PATTERN SHALL NOT BE PROPRIETARY TO A SINGLE CONTRACTOR OR SMS MANUFACTURER.
- D. PROVIDE FOR 100 CREDENTIALS.
- E. ACCEPTABLE MANUFACTURER: HID ICCLASS.

4. WALL MOUNTED PROXIMITY CARD READER

- A. SHALL BE SPECIFICALLY DESIGNED FOR FLUSH MOUNTING TO THE WALL USING A DOUBLE GANG ELECTRICAL BOX WITH A SINGLE GANG DEVICE RING.
- B. THE WALL MOUNTED CARD READER SHALL HAVE A MINIMUM READ RANGE OF 3 INCHES.
- C. ACCEPTABLE MANUFACTURER: HID ICCLASS.

5. ACCESS CONTROL CARD PRINTER

- A. SIDE PRINTING: SINGLE OR DUAL.
- B. PRINT METHOD: DYE SUBLIMATION / RESIN THERMAL TRANSFER.
- C. RESOLUTION: 300 DPI.
- D. PRINT SPEED: 16 SECONDS PER CARD / 225 CARDS PER HOUR (YMKO)
- E. SOFTWARE: FARGO WORKBENCH PRINTER MAINTENANCE AND DIAGNOSTIC SOFTWARE WITH COLOR ASSIST SPOT-COLOR MATCHING.
- F. DATA PROTECTION: AES-256 ENCRYPTION ON THE PRINTER OVER A SECURE NETWORK.
- G. CARD CAPACITY: 100 CARD INPUT, 30 CARD OUTPUT (DUAL-SIDED: UP TO 100 CARDS)
- H. ACCEPTABLE MANUFACTURER: HID

5. REQUEST-TO-EXIT MOTION SENSOR

- A. MINIMUM SPECIFICATIONS:
- 1) DETECTION TECHNOLOGY PASSIVE INFRARED
- 2) DETECTION PATTERN ADJUSTABLE TO PROVIDE COVERAGE OF IMMEDIATE DOOR AREA.
- 3) OUTPUT CONTACT NORMALLY OPEN CONTACT THAT CLOSES MOMENTARILY (ONE SECOND OR LESS) WHEN SENSOR IS ACTIVATED
- 4) POWER REQUIREMENTS 12-24 VDC
- 5) MOUNTING SURFACE MOUNT TO WALL OR CEILING B. PROVIDE A MANUFACTURER RECOMMENDED POWER SUPPLY. THE POWER SUPPLY SHALL BE UL CLASS II, POWER LIMITED.
- B. ACCEPTABLE MANUFACTURER: BOSCH

6. ELECTRIC LOCKING MECHANISM POWER SUPPLY.

- A. MINIMUM SPECIFICATIONS:
- 1) TYPE UL LISTED CLASS II POWER LIMITED
- 2) INPUT VOLTAGE 120 VAC
- 3) OUTPUT VOLTAGE 24 VDC
- 4) OUTPUT CONNECTIONS INDIVIDUALLY FUSED OUTPUTS TO EACH LOCK
- 5) OUTPUT RATING 150 PERCENT OF THE ACTUAL CONNECTED LOAD
- 6) ALARM OUTPUT POWER FAIL
- 7) ENCLOSURE STEEL ENCLOSURE WITH INTEGRAL LOCK AND TAMPER SWITCH
- B. ACCEPTABLE MANUFACTURERS:
- 1) ALARM-SAF
- 2) ALTRONIX
- 3) DOORTRONICS
- 4) OR APPROVED EQUAL

7. CONCEALED DOOR POSITION SWITCH

- A. MINIMUM SPECIFICATIONS:
- 1) GAP 1/2 INCH BETWEEN THE MAGNET AND SWITCH
- 2) CONFIGURATION NORMALLY CLOSED WHEN THE DOOR IS CLOSED
- 3) SECURITY BIASED
- 4) MOUNTING AS RECOMMENDED BY THE DOOR POSITION SWITCH MANUFACTURER
- 5) DPDT
- B. ACCEPTABLE MANUFACTURER: INTERLOGIX 1076

8. DOOR RELEASE BUTTON

- A. ACCEPTABLE MANUFACTURER: ADI GLOBAL OR APPROVED EQUAL.

9. VIDEO INTERCOM

- A. ACCEPTABLE MANUFACTURER: AVIGILON H4.

10. ACCESS CONTROL/INTRUSION WIRE MINIMUM SPECIFICATIONS:

- A. ALL WIRE AND CABLE SHALL BE UNDERWRITERS LABORATORIES (UL) APPROVED FOR ITS INTENDED APPLICATION. SHALL MEET ALL NATIONAL, STATE AND LOCAL CODE REQUIREMENTS FOR ITS APPLICATION, AND SHALL MEET OR EXCEED MANUFACTURERS RECOMMENDATIONS FOR THE COMPONENTS CONNECTED. PROVIDE PLENUM-RATED CABLE AS REQUIRED BY CODE.
- B. ALL WIRE AND CABLE SHALL MEET INDIVIDUAL SYSTEM OR SUBSYSTEM MANUFACTURER SPECIFICATIONS.
- C. ALL INSULATED WIRE AND CABLE SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF INSULATED CABLE ENGINEERS
- D. ASSOCIATION (ICEA) STANDARDS. WIRE AND CABLE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC).
- E. LATEST EDITION, IN REGARDS TO CABLE CONSTRUCTION AND USAGE, THE CONDUCTORS OF WIRES SHALL BE COPPER, AND HAVE CONDUCTIVITY IN ACCORDANCE WITH THE STANDARDIZATION
- F. RULES OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC. (IEEE). THE CONDUCTOR AND EACH STRAND SHALL BE ROUND AND FREE OF KINKS AND DEFECTS. INSULATION SHALL BE RATED FOR A MINIMUM OF 300 V.
- G. COLOR CODING SHALL BE ACCOMPLISHED BY USING SOLIDLY COLORED INSULATION, GROUNDING CONDUCTORS, WHERE INSULATED, SHALL BE COLORED SOLID GREEN OR IDENTIFIED WITH GREEN COLOR AS REQUIRED BY THE NATIONAL ELECTRIC CODE (NEC).
- H. MINIMUM WIRE TYPES AND SIZES:

- 1) LOW VOLTAGE POWER CABLE: WIRE SIZE SHALL BE A MINIMUM OF 18 AWG, TWISTED, STRANDED, INSULATED AND JACKETED
- 2) CONTROL POINT CABLE (NON-POWER): WIRE SIZE SHALL BE A MINIMUM OF 20 AWG, TWISTED, STRANDED, INSULATED AND JACKETED
- 3) CONTROL POINT CABLE (LOW VOLTAGE POWER): WIRE SIZE SHALL BE A MINIMUM OF 18 AWG, STRANDED, INSULATED, AND JACKETED
- 4) ALL CABLE CARRYING DATA OR VOICE TRANSMISSIONS SHALL BE SHIELDED, ALL OTHER CABLE SHALL BE SHIELDED WHERE NECESSARY TO GUARANTEE INTERFERENCE-FREE SIGNALS

I. ACCEPTABLE MANUFACTURERS:

- 1) AT&T
- 2) BELDEN
- 3) WEST PENN WIRE
- 4) OR APPROVED EQUAL

9. DATA GATHERING PANEL

A. THE DATA GATHERING PANEL SHALL PROVIDE THE FOLLOWING:

- 1) AN INTELLIGENT INTERFACE BETWEEN CARD READERS AND THE FILE SERVER UTILIZING DISTRIBUTED PROCESSING TECHNOLOGY.
- 2) SIMULTANEOUS SUPPORT OF A MINIMUM OF TWO ACCESS CARD FACILITY CODES AND BIT-FORMATS. THE DATA GATHERING PANEL SHALL GRANT ACCESS THROUGH CARD READER CONTROLLED DEVICES BASED ON CARDHOLDER ACCESS LEVEL, ACCESS CARD FACILITY CODE, AND ACCESS CARD NUMBER.
- 3) SUPERVISED ALARM INPUTS TO MONITOR THE STATUS OF ALARM CIRCUITS AND REPORT THE STATUS INFORMATION TO THE SMS FILE SERVER. SUPERVISION OF ALL WIRING BETWEEN THE DATA GATHERING PANEL AND THE MONITORED ALARM DEVICES SHALL MEET UL 1076 GUIDELINES FOR 4-STATE SUPERVISION
- 4) CONTROL RELAY OUTPUTS FOR CONTROLLING DEVICES BY REMOTE COMMAND FROM THE SYSTEM WORKSTATION, THROUGH TIME PROGRAMMING OR ON ALARM POINT ACTIVATION. OUTPUTS SHALL BE RATED FOR A MINIMUM OF 2A AT 24VDC.
- 5) SUPERVISION AND MONITORING OF ALL WIRING BETWEEN THE DATA GATHERING PANEL AND THE MONITORED ALARM DEVICES FOR SECURE, ALARM, AND FAULT CONDITIONS. SUPERVISION SHALL MEET UL 1076 GUIDELINES.

- 6) ADEQUATE RAM TO MAINTAIN A MINIMUM CARD DATABASE OF 10,000 CARDS INCLUDING ACCESS LEVELS AND TIME ZONES.
- 7) ETHERNET COMMUNICATIONS BETWEEN DATA GATHERING PANELS AND THE FILE SERVER.
- 8) AUTOMATIC DISCONNECTION FROM THE COMMUNICATION LOOP UPON A COMMUNICATION FAILURE WITHIN THE DATA GATHERING PANEL TO PREVENT COMMUNICATION TO OTHER DATA GATHERING PANELS IN THE LOOP FROM BEING INTERRUPTED.
- 9) INTRUSION ALARM INDICATION ON THE SYSTEM WORKSTATION IF A CARD READER CONTROLLED DOOR IS OPENED WITHOUT AN AUTHORIZED CARD USE OR REQUEST TO EXIT SIGNAL.
- 10) A DOOR PROP ALARM INDICATION ON THE SYSTEM WORKSTATION IF THE CARD READER CONTROLLED DOOR IS PROPPED OPEN PAST AN ADJUSTABLE TIME PERIOD AFTER AN AUTHORIZED CARD USE OR REQUEST TO EXIT. THE DOOR PROP TIME DELAY SHALL BE ADJUSTABLE FROM THE SYSTEM WORKSTATION FROM ONE TO 60 SECONDS ON A PER READER BASIS.
- 11) EACH DATA GATHERING PANEL SHALL INCLUDE ONE SPARE CARD READER INPUT POINT AND 20 PERCENT SPARE ALARM INPUT POINTS AND OUTPUT POINTS AFTER ALL SPECIFIED POINTS ARE INITIALLY CONNECTED.
- 12) A LOCKING STEEL ENCLOSURE DESIGNED FOR SURFACE MOUNTING, PROVIDE A TAMPER SWITCH TO SENSE THE REMOVAL OR OPENING OF THE ENCLOSURE COVER. PROVIDE ANY CONDUIT REQUIRED FROM THE DATA GATHERING PANEL TO POWER SUPPLIES, JUNCTION BOXED OR WIREWAYS. ALL DATA GATHERING PANELS SHALL BE KEYED ALIKE AND SHALL BE ON THE SAME KEY AS ALL SECURITY SYSTEM POWER SUPPLIES AND POWER DISTRIBUTION CABINETS.

- B. UPON LOSS OF COMMUNICATION WITH THE FILE SERVER, THE DATA GATHERING PANEL SHALL CONTAIN ENOUGH RAM TO OPERATE NORMALLY. IN ADDITION, THE DATA GATHERING PANEL SHALL STORE UP TO 10,000 CARD TRANSACTIONS AND UP TO 16 EVENTS PER POTENTIAL ALARM INPUT, AND TRANSMIT THAT DATA TO THE FILE SERVER AS SOON AS COMMUNICATION IS RESTORED.

- C. UPON VERIFICATION OF CARD AUTHORIZATION OR REQUEST TO EXIT THE DATA GATHERING PANEL SHALL ACTIVATE A DOOR CONTROL RELAY OUTPUT AND SHUNT THE INTRUSION ALARM. THE LOCK CONTROL OUTPUT CONTACTS SHALL BE RATED FOR 2 A @ 24 VDC. RELAY ACTIVATION TIME SHALL BE ADJUSTABLE FROM THE SYSTEM WORKSTATION FROM ONE TO 30 SECONDS ON A PER READER BASIS. THE DOOR SHALL AUTOMATICALLY RELOCK UPON CLOSURE.

- D. TRANSACTION TIME FOR AUTHORIZED CARDS SHALL BE LESS THAN 0.5 SECONDS FROM THE TIME OF CARD READ UNTIL THE DOOR IS UNLOCKED.

- E. ALL ALARM AND CONTROL POINTS AS WELL AS CARD READER INPUTS, SHALL BE CAPABLE OF INDEPENDENT TIME PROGRAMMING VIA SOFTWARE CONTROLS FROM THE SYSTEM FILE SERVER.

- F. DATA GATHERING PANEL POWER SUPPLY SHALL BE DEDICATED TO DATA GATHERING PANELS AND SHALL NOT PROVIDE POWER FOR LOCKS OR ANY OTHER LOW VOLTAGE DEVICE.

G. ACCEPTABLE MANUFACTURERS:

- 1) AVIGILON

NOTE:
TECHNOLOGY, SECURITY, AND COMMUNICATION DEVICES, EQUIPMENT, WIRE, MANAGEMENT WIRE, CABLING, TESTING AND INTEGRATION WILL BE PERFORMED BY THE OWNER.



AIA[®] Document G716[™] – 2004

Request for Information (“RFI”)

TO:
MEMASI
2 Lyon Place
White Plains, NY 10601

FROM: Fran Bissinger-Piazza Inc.

PROJECT:
2024 WHS PPS PROJECT

ISSUE DATE: 6.28.2024

RFI No. 001

PROJECT NUMBERS: MEMASI / 107-2201

REQUESTED REPLY DATE: ASAP
COPIES TO:

RFI DESCRIPTION: *(Fully describe the question or type of information requested.)*

Please see attached.

REFERENCES/ATTACHMENTS: *(List specific documents researched when seeking the information requested.)*

SPECIFICATIONS:

DRAWINGS:

OTHER:

SENDER'S RECOMMENDATION: *(If RFI concerns a site or construction condition, the sender may provide a recommended solution, including cost and/or schedule considerations.)*

The ceiling grid shall be 15/16" tegular.

RECEIVER'S REPLY: *(Provide answer to RFI, including cost and/or schedule considerations.)*

Pancaldi | MEMASI

BY

06/28/2024

DATE

Arris Contracting

COPIES TO

Note: This reply is not an authorization to proceed with work involving additional cost, time or both. If any reply requires a change to the Contract Documents, a Change Order, Construction Change Directive or a Minor Change in the work must be executed in accordance with the Contract Documents.

From: gus@piazzabrothers.com
To: "Frances Bissinger"; joe@piazzabrothers.com
Subject: FW: ?Westlake HS 2024
Date: Friday, June 28, 2024 11:45:46 AM
Attachments: [image002.png](#)

Fran, please submit RFI. Thanks

From: rrivera@tristatedrywall.net [mailto:rrivera@tristatedrywall.net]
Sent: Friday, June 28, 2024 11:10 AM
To: gus@piazzabrothers.com
Subject: RE: ?Westlake HS 2024

Another question for Westlake HS:

1. Spec 095113 calls out for ACT1 & 2 with 15/16" grid but then under part 2.3 it calls out 9/16" grid system- what do they want 15/16" or 9/16"
- 2.

1. ACT-1

- a. Manufacturer: Armstrong
- b. Model: Ultima 15/16" Tegular
- c. Color: White.
- d. Size: 24" x 24".
(with Anti-Microbial for toilet applications)

2. ACT-2

- a. Manufacturer: Armstrong
- b. Model: Ultima 15/16" Tegular
- c. Color: White.
- d. Size: 24" x 48".

2.2 ALUMINUM TRIM

- A. Extruded aluminum, ASTM B221 "Axiom" by Armstrong in profiles indicated on drawings. Baked Enamel finish in custom color selected by Architect.

2.3 SUSPENSION SYSTEM

- A. Provide 9/16" Suprafine exposed tee, 2-way grid steel suspension system with low sheen white baked enamel finish as manufactured by Armstrong World Industries, or comparable product of USG Interiors, Inc., Chicago Metallic Corp., or approved equal.

Rebecca Rivera

Tri-State Drywall & Acoustical, Inc.
183 Jersey Avenue
Port Jervis, NY 12771
Phone: 845.856.8400 ext. 15
Fax: 845.856.8300

From: rrivera@tristatedrywall.net <rrivera@tristatedrywall.net>
Sent: Friday, June 28, 2024 10:05 AM
To: gus@piazzabrothers.com
Subject: ?Westlake HS 2024

Morning- Happy Friday... Westlake HS:

1. Anticipated schedule- start & finish?

Rebecca Rivera

Tri-State Drywall & Acoustical, Inc.

183 Jersey Avenue

Port Jervis, NY 12771

Phone: 845.856.8400 ext. 15

Fax: 845.856.8300

Mt. Pleasant CSD -PPS Project - Pre-Bid Meeting

07/01/2024 2PM Project Meeting Sign-in Sheet

Company	Name	Phone Number	Email
NABCO	U. BATH	914 966 3114	ATN@nabco.com
Piorra	Joe Piorra	914-439-6453	Frances@Piorrabrothers.com
Mt Olympus	Alex Hoffman	606-508-4028	Alex.m.olympus@gmail.com
Atlantic Westchester	Brian Hoffman	(914) 666-2268	brian@atlanticwestchester.com
Camilli Son Construction	Bob Camilli	914-755-1164	peter.camilli@verizon.net
LISI CONTRACTING	VALANTIN LICI	914 469 2966	LISICONTRACTING@LIV6.COM
Jennings Co Inc	Jack Carducci	914 575 5078	jcarducci@jenningscoinc.com
Precision mechanical	David Fedner	845-689-3529	dfedner@pmhvaccorp.com
PARAMOUNT PLUMBING	Herby Leboritz	845-499-3071	Herby73@gmail.com
MUTST SERVICES	Ruben Dooze	732-524-9713	Ruben@mutstservicesinc.com