ADDENDUM NO. 1

May 1, 2026

MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated April 6, 2026 by Gibraltar Design. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of pages ADD 1-1 through ADD 1-2 and attached and attached Addendum No. 1 from Gibraltar Design dated April 30, 2026, and consisting of 3 pages, revised Specification Section 08 71 00 - Door Hardware, new Specification Section - 09 67 21 - Epoxy Flooring and 11 Drawings.

A. SPECIFICATION SECTION 00 00 20 - TABLE OF CONTENTS

1. **ADD:**

   Specification Section 09 67 21 - Epoxy Flooring

B. SPECIFICATION SECTION 00 31 00 - INDIANA BID FORM

1. **REPLACE:**

   Specification Section 00 31 00 - Indiana Bid Form with the attached revised Bid Form

C. SPECIFICATION SECTION 00 43 50 - SUBCONTRACTORS AND PRODUCTS LIST

1. **ADD:**

To Division 9 - Finishes:
09 67 21 - Epoxy Flooring

D. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

Under 3.03 Bid Categories

A. BID CATEGORY NO. 01 - GENERAL TRADES

1. **ADD:**

Specification Section 09 67 21 - Epoxy Flooring

E. SPECIFICATION SECTION 01 23 00 - ALTERNATES

Under 1.04 Schedule of Alternates

1. **ADD:**

D. ALTERNATE NO. 4: State the cost for the Contractor to provide a deduct alternate value to provide the specified Battery Powered Door Lockset on the existing door leafs (Doors R112 and R115), which are to remain, a new specified closer for each door, along with the Gateway Communication Units. **Base Bid:** Contractor is to provide a full removal of the existing doors and door frames (Doors R112 and R115), wall repair new door and new door frames, new access control reader, new door hardware and electrified locksets, new closers, new wiring for the door controls, and all power feed requirements indicated in the Documents.

CONTRACTOR'S BID FOR PUBLIC WORKS FORM NO. 96

Format (Revised 2013)
(Amended for MCSC)

Merrillville High School Security Office and Group 4 Classrooms

Merrillville Community School Corporation
Merrillville, IN

PART I

(To be completed for all bids. Please type or print)

Date (month, day, year):_____

BIDDER (Firm) _____

Address _____ P.O. Box _____

City/State/Zip _____

Telephone Number: _____ Email Address: _____

Person to contact regarding this Bid_____

Pursuant to notices given, the undersigned offers to furnish labor and/or materials necessary to complete the public works project of:

_____
Insert Category No. (s) and Name(s)

Of public works project, ***Merrillville High School Security Office and Group 4 Classrooms***, in accordance with Plans and Specifications prepared by ***Gibraltar Design, 4030 Vincennes Rd., Suite #100, Indianapolis, IN 46268***, as follows:

BASE BID

For the sum of _____
(Sum in words)

_____DOLLARS ($_____)
(Sum in figures)

The undersigned acknowledges receipt of the following Addenda:

Receipt of Addenda No. (s) _____

PROPOSAL TIME

Bidder agrees that this Bid shall remain in force for a period of sixty (60) consecutive calendar days from the due date, and Bids may be accepted or rejected during this period. Bids not accepted within said sixty (60) consecutive calendar days shall be deemed rejected.

Attended pre-bid conference YES _____ NO_____

Has visited the jobsite YES _____ NO_____

The Bidder has reviewed the Guideline Schedule in Section 01 32 00 and the intent Of the schedule can be met.

YES _____ NO_____

Bidder has included their Written Drug Testing Plan that covers all employees of the bidder who will perform work on the public work project and meets or exceeds the requirements set in IC 4-13-18-5 or IC 4-13-18-6.

YES _____ NO_____

The Skillman Corporation's diversity initiative is to create a program to encourage, assist and measure the active participation of Minority- Owned, Women-Owned, Veteran – Owned and Disabled Individual-Owned Businesses. The Program is to ensure that MWVDBEs are provided full and equal opportunity to participate in all Skillman Corporation's Projects.

Bidder has included:

DBE: YES _____% NO _____
MBE: YES _____% NO _____
WBE: YES _____% NO _____
VBE: YES _____% NO _____

The undersigned further agrees to furnish a bond or certified check with this Bid for an amount specified in the Notice to Bidders. If Alternate Bids apply, submit a proposal for each in accordance with the Plans and Specifications.

If additional units of material included in the contract are needed, the cost of units must be the same as that shown in the original contract if accepted by the governmental unit. If the bid is to be awarded on a unit bases, the itemization of the units shall be shown on a separate attachment.

The contractor and his subcontractors, if any, shall not discriminate against or intimidate any employee, or applicant for employment, to be employed in the performance of this contract, with respect to any matter directly or indirectly related to employment because of race, religion, color, sex, national origin, or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

CERTIFICATION OF USE OF UNITED STATES STEEL PRODUCTS
(if applicable)

I, the undersigned bidder, or agent as a contractor on a public works project, understand my statutory obligation to use steel products made in the United States (I.C. 5-16-8-2). I hereby certify that I and all subcontractors employed by me for this project will use U.S. steel on this project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

ALTERNATE BIDS

A blank entry or an entry of "No Bid", "N/A", or similar entry on any Alternate will cause the bid to be rejected as non-responsive only if that Alternate is selected. If no change in the bid amount is required, indicate "No Change".

****MARK "ADD" OR "DEDUCT" FOR EACH ALTERNATE****

Alternate Bid No. 1 – Unit Ventilators Manufactured by Daiken

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 2 – Distech Controls by Precision Controls

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 3 – Temporary Wall at Group 4 Classroom Corridor

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 4 – Deduct Alternate Value for Battery Powered Door Lockset (Doors R112 & R115)

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

PART II

(For projects of $150,000 or more – IC 36-1-12-4)

These statements to be submitted under oath by each bidder with and as a part of his bid. (Attach additional pages for each section as needed.)

SECTION I EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed for the period of one (1) year prior to the date of the current bid?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

2. What public works projects are now in process of construction by your organization?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

3. Have you ever failed to complete any work awarded to you?_____If so, where and why?

_____

_____

_____

4. List references from private firms for which you have performed work.

_____

_____

_____

SECTION II PLAN AND EQUIPMENT QUESTIONNAIRE

1. Explain your plan or layout for performing proposed Work. (Examples could include a narrative of when you could begin, complete the project, number of workers, etc. and any other information which you believe would enable the governmental unit to consider your bid.)

2. Please list the names and addresses of all subcontractors (i.e. persons or firms outside your own firm who have performed part of the work) that you have used on public works projects during the past five (5) years along with a brief description of the work done by each subcontractor.

3. If you intend to sublet any portion of the work, state the name and addresses of each subcontractor, equipment to be used by the subcontractor, and whether you will require a bond. However, if you are unable to currently provide a listing, please understand a listing must be provided prior to contract approval. Until the completion of the proposed project, you are under a continuing obligation to immediately notify the governmental unit in the event that you subsequently determine that you will use a subcontractor on the proposed project.

4. What equipment do you have available to use for the proposed Project? Any equipment used by subcontractors may also be required to be listed by the governmental unit.

5. Have you into contracts or received offers for all materials which substantiate the prices used in preparing your proposal? If not, please explain the rationale used which corroborate the process listed.

SECTION III CONTRACTOR'S FINANCIAL STATEMENT

Attachment of Bidder's financial statement is mandatory. Any Bid submitted without said financial statement as required by statute shall thereby be rendered invalid. The financial statement provided hereunder to the governing body awarding the Contract must be specific enough in detail so that said governing body can make a proper determination of the Bidder's capability for completing the Project if awarded.

SECTION IV CONTRACTOR NON-COLLUSION AFFIDAVIT

The undersigned Bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this Bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporations has, have, or will receive directly or indirectly, any rebate, fee, gift, commission, or thing of value on account of such contract.

SECTION V OATH AND AFFIRMATION

I HEREBY AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE FACTS AND INFORMATION CONTAINED IN THE FOREGOING BID FOR PUBLIC WORKS ARE TRUE AND CORRECT

Dated at _____this _____ day of _____, 20

_____
(Name of Organization)

By

_____

_____
(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF _____)
) SS:
COUNTY OF _____)

Before me, a Notary Public, personally appeared the above-named

_____

Swore that the statements contained in the foregoing document are true and correct.

Subscribed and sworn to before me this _____ day of _____,

_____
(Title)

_____
Notary Public

My Commission Expires: _____

County of Residence: _____

END OF SECTION 00 31 00

ADDENDUM ONE

Addendum One (AD.01) to the drawings and specifications prepared by Gibraltar Design for **Merrillville HS Security Office and Group 4 Classroom Improvements** for Merrillville Community School Corporation, Merrillville, Indiana.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum and required by the intent of the original contract documents. All Contractors shall acknowledge on their bid form that they have received this Addendum and include the appropriate content of same within their bid proposal.

SPECIFICATIONS

1. **Specification Section 00 01 10 Table of Contents**
   A. Add new Specification Section to Division 9: "09 67 21 Epoxy Flooring"
2. **Specification Section 08 71 00 Door Hardware**
   A. Replace Specification Section 08 71 00, Door Hardware complete with new revised Section included in this addendum.
      1. Note Revised Paragraph 2.04, new added Paragraphs 2.06 and 2.07, with adjusting paragraph numbering forward and new added Paragraph 2.14.
      2. Revisions to Locksets 05 and 06, with the addition of Alternate Locksets 07 and 08.
3. **Specification Section 09 67 21 Epoxy Flooring**
   A. Add new Specification Section 09 67 21, Epoxy Flooring to Project Manual, included in this addendum.

DRAWINGS

4. **Sheet AD119**
   A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
      1. Revise Keyonte 7 to read "REMOVE LOOSE PAINT FROM WALLS. PREPARE FOR NEW PAINT"
      2. Revise Keynote 15 to read "REMOVE DOOR AND FRAME. PATCH WALL TO RECEIVE NEW FINISHES AND FRAME"
      3. Add the following text to Keynote 20 "REINSTALL AFTER FLOOR FINISH INSTALLATION"
5. **Sheet AD123**
   A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
      1. Renamed room EV127 from "CUST" to ELEC"
      2. Revise Keyonte 7 to read "REMOVE LOOSE PAINT FROM WALLS. PREPARE FOR NEW

PAINT"

3. Revise Keynote 15 to read "REMOVE DOOR AND FRAME. PATCH WALL TO RECEIVE NEW FINISHES AND FRAME"
4. Add the following text to Keynote 20 "REINSTALL AFTER FLOOR FINISH INSTALLATION"

6. Sheet A-123

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.

1. 1.Renamed room EV127 from "CUST" to ELEC"

7. Sheet A-601

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.

1. In the Door and Frame Schedule, revise DOOR R112 and R115 Type to read "1" and Mat'l to read "WD"
2. In the Door and Frame Schedule, revise DOOR FRAME R112 and R115 Mat'l to read "HM" and Elev to read "HM1"
3. Modified door schedule note (remarks) to read "VERIFY EXISTING ROUGH OPENING PRIOR TO ORDERING DOOR FRAME AND SLAB."
4. Revised General Door Notes G – J to point to the correct details on the page.

8. Sheet A-819

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.

1. Modified Detail 4 Step Carpet Detail

9. Sheet A-823

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.

1. Added finishes to room V127 ELEC
2. Revised Plan Note 2
3. Revised Carpet Directional Arrow in indicated Classrooms.

10. Sheet A-825

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.

1. Revised B3 to Not Used
2. Revised STR to Not Used
3. Revised Carpet C2
4. Added Epoxy Painted Floor, EP.

11. Sheet E-001

A. Refer to revised, full-size drawing, included in this Addendum, for revised symbol list.

12. Sheet ED123

A. Refer to revised, full-size drawing, included in this Addendum, for revised notes for junction boxes in classrooms.

13. Sheet EP119

A. Refer to revised, full-size drawing, included in this Addendum, for revisions below.

1. Added Sheet Note #5 and locations on the floor plans.
2. Added Alternate Notes.
3. Added approximate locations of controller and gateway.
4. Added note for Existing Data Cabinet.
5. Revised Sheet Note #3.

14. Sheet E-601

A. Refer to revised, full-size drawing, included in this Addendum, for added Access Control Wiring Diagram.

Pages 1 through 3, inclusive, Specification Sections 08 71 00 and 09 67 21, and Eleven (11) Full-Size Drawings, constitute the total makeup of **Addendum One**.

GIBRALTAR DESIGN

Joseph P. Briggs

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SECTION 08 71 00
DOOR HARDWARE

1 General

1.1 SUMMARY

A. Section includes:

1. Mechanical door hardware

B. Section excludes:

1. Windows
2. Cabinets (casework), including locks in cabinets
3. Signage
4. Toilet accessories
5. Overhead doors

C. Related Sections:

1. Division 01 "General Requirements" sections for Allowances, Alternates, Owner Furnished Contractor Installed, Project Management and Coordination.
2. Division 06 Section "Rough Carpentry"
3. Division 06 Section "Finish Carpentry"
4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
5. Division 08 Sections:
   a. "Metal Doors and Frames"
   b. "Flush Wood Doors"
6. Division 26 "Electrical" sections for connections to electrical power system and for low-voltage wiring.
7. Division 28 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

1.2 REFERENCES

A. UL LLC

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

B. DHI - Door and Hardware Institute

1. Sequence and Format for the Hardware Schedule
2. Recommended Locations for Builders Hardware
3. Keying Systems and Nomenclature
4. Installation Guide for Doors and Hardware

C. NFPA – National Fire Protection Association

1. NFPA 70 – National Electric Code
2. NFPA 80 – 2016 Edition – Standard for Fire Doors and Other Opening Protectives
3. NFPA 101 – Life Safety Code
4. NFPA 105 – Smoke and Draft Control Door Assemblies
5. NFPA 252 – Fire Tests of Door Assemblies

D. ANSI - American National Standards Institute

1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
2. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
3. ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
4. ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors
5. ANSI/SDI A250.8 - Standard Steel Doors and Frames

1.3 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
2. Prior to forwarding submittal:
   a. Review drawings and Sections from related trades to verify compatibility with specified hardware.
   b. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.

B. Action Submittals:

1. Product Data: Submit 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.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
   a. Wiring Diagrams: For power, signal, and control wiring and including:
      1) Details of interface of electrified door hardware and building safety and security systems.
      2) Schematic diagram of systems that interface with electrified door hardware.
      3) Point-to-point wiring.
      4) Risers.
3. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.

a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.

4. Door Hardware Schedule:

   a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.

   b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.

   c. Indicate complete designations of each item required for each opening, include:

      1) Door Index: door number, heading number, and Architect's hardware set number.

      2) Quantity, type, style, function, size, and finish of each hardware item.

      3) Name and manufacturer of each item.

      4) Fastenings and other pertinent information.

      5) Location of each hardware set cross-referenced to indications on Drawings.

      6) Explanation of all abbreviations, symbols, and codes contained in schedule.

      7) Mounting locations for hardware.

      8) Door and frame sizes and materials.

      9) Degree of door swing and handing.

      10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.

5. Key Schedule:

   a. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.

   b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.

   c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.

   d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.

e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.

f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

C. Informational Submittals:

1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.

2. Provide Product Data:

a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.

b. Include warranties for specified door hardware.

D. Closeout Submittals:

1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:

a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.

b. Catalog pages for each product.

c. Final approved hardware schedule edited to reflect conditions as installed.

d. Final keying schedule

e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.

f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

E. Inspection and Testing:

1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:

a. Fire door assemblies, in compliance with NFPA 80.

b. Required egress door assemblies, in compliance with NFPA 101.

1.4 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

1. Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.

2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
3. Architectural Hardware Consultant: Person 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 and meets these requirements:
    a. For door hardware: DHI certified AHC or DHC.
    b. Can provide installation and technical data to Architect and other related subcontractors.
    c. Can inspect and verify components are in working order upon completion of installation.
    d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.
4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:
1. Fire-Rated Door Openings:
    a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
    b. Provide only items of door hardware that are listed products tested by UL LLC, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.
2. Smoke and Draft Control Door Assemblies:
    a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
    b. Comply with the maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.
3. Electrified Door Hardware
    a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
4. Accessibility Requirements:
    a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.

C. Pre-Installation Meetings
1. Keying Conference

a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:

1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.

2) Preliminary key system schematic diagram.

3) Requirements for key control system.

4) Requirements for access control.

5) Address for delivery of keys.

2. Pre-installation Conference

a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

b. Inspect and discuss preparatory work performed by other trades.

c. Inspect and discuss electrical roughing-in for electrified door hardware.

d. Review sequence of operation for each type of electrified door hardware.

e. Review required testing, inspecting, and certifying procedures.

f. Review questions or concerns related to proper installation and adjustment of door hardware.

3. Electrified Hardware Coordination Conference:

a. Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping.

B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.

C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.

D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.

F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.6 COORDINATION

A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.

B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.

D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

1.7 WARRANTY

A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.

1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.

2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.

a. Mechanical Warranty

1) Locks

a) Schlage L Series: 10 years

2) Closers

a) LCN 4000 Series: 30 years

b. Electrical Warranty

1) Locks

a) Schlage L Series: 3 years

1.8 MAINTENANCE

A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

B. Turn over unused materials to Owner for maintenance purposes.

2 PRODUCTS

2.1 MANUFACTURERS

A. The Owner requires use of certain products for their unique characteristics and project suitability to ensure 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."

1. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.

B. Approval of alternate manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category are only to be considered by official substitution request in accordance with section 01 25 00.

C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.

D. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.2 MATERIALS

A. Fabrication

1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer's recognized installation standards for application intended.

2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.

3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with "Metal Doors and Frames", "Flush Wood Doors", "Stile and Rail Wood Doors" to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.

B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

C. Cable and Connectors:

1. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with number and gage of wires enough to accommodate electric function of specified hardware.

2. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices.

3. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.

2.3 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Ives 5BB series
2. Acceptable Manufacturers and Products:
   a. Hager BB1191/1279 series
   b. McKinney TB Series

B. Requirements:

1. Provide hinges conforming to ANSI/BHMA A156.1.
2. Provide five knuckle, ball bearing hinges.
3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
   a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
   b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high
4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
   a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high
5. 2 inches or thicker doors:
   a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high
6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
8. 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

9. Provide hinges with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.

2.4 ELECTRIC POWER TRANSFER

A. Manufacturers:

1. Scheduled Manufacturer and Product:
   a. Von Duprin EPT-10
2. Acceptable Manufacturers and Products:
   a. ABH PT1000
   b. Securitron CEPT-10
   c. Security Door Controls PTM

B. Requirements:

1. Provide power transfer with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
2. Locate electric power transfer per manufacturer's template and UL requirements, unless interference with operation of door or other hardware items.

2.5 MORTISE LOCKS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Schlage L9000 series
2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1, and UL Listed for 3-hour fire doors.
2. Indicators: Where specified, provide indicator window measuring a minimum 2-inch x 1/2 inch with 180-degree visibility. Provide messages color-coded with full text and/or symbols, as scheduled, for easy visibility.
3. Provide locks manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance.
4. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to “KEYING” article, herein.
5. Provide locks with standard 2-3/4 inches (70 mm) backset with full 3/4 inch (19 mm) throw stainless steel mechanical anti-friction latchbolt. Provide deadbolt with full 1-inch (25 mm) throw, constructed of stainless steel.

6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
7. Provide electrified options as scheduled in the hardware sets. Where scheduled, provide switches and sensors integrated into the locks and latches. Provide motor based electrified and motor based latch retraction locksets that comply with the following requirements:
    a. Universal input voltage – single chassis accepts 12 or 24VDC to allow for changes in the field without changing lock chassis.
    b. Fail Safe/Fail Secure – changing mode between electrically locked (fail safe) and electrically unlocked (fail secure) is field selectable without opening the lock case
    c. Low maximum current draw – maximum 0.4 amps (Lever control) and maximum 2.0 amps (Latch retraction) to allow for multiple locks on a single power supply.
    d. Low holding current (Lever control or latch retraction) – maximum 0.01 amps to produce minimal heat, eliminate "hot levers" in electrically locked applications and motorized latch retraction applications, and to provide reliable operation in wood doors that provide minimal ventilation and air flow.
    e. Connections – provide quick-connect Molex system standard.
8. (OPTION Key Override) Provide locks with a key override feature built into the chassis that allows the outside key to retract the deadbolt and/or latchbolt, overriding the inside thumbturn when it is being held in the locked position - where the XL13-439 option is specified in the hardware sets.
9. Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.
    a. (OPTION Vandlgard) Provide levers with vandal resistant technology for use at heavy traffic or abusive applications.
    b. Lever Design: 17A

2.6 CYLINDRICAL LOCKS – GRADE 1

A. Manufacturers and Products:
    1. Scheduled Manufacturer and Product:
        a. Schlage ND series
    2. Acceptable Manufacturers and Products:
        a. No Substitute
B. Requirements:
    1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1, and UL Listed for 3-hour fire doors.

2. Indicators: Where specified, provide escutcheon with lock status indicator window on top of lockset rose:
    a. Escutcheon height (including rose) 6.05 inches high by 3.68 inches wide.
    b. Indicator window measuring a minimum 3.52-inch by .60 inch with 1.92 square-inches of front facing viewing area and 180-degree visibility with a total of .236 square-inches of total viewable area.
    c. Provide snap-in serviceable window to prevent tampering. Lock must function if indicator is compromised.
    d. Provide messages color-coded with full text and symbol, as scheduled, for easy visibility.
    e. Unlocked and Unoccupied message will display on white background, and Locked and Occupied message will display on red background.
3. Cylinders: Refer to "KEYING" article, herein.
4. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2-inch latch throw. Provide proper latch throw for UL listing at pairs.
5. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
6. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
7. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
8. Provide electrified options as scheduled in the hardware sets.
9. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.
    a. Provide levers that return to within 1/2 inch (13 mm) of door face.
    b. VandIgard: Provide levers with vandal resistant technology for use at heavy traffic or abusive applications.
    c. Lever Design: SPA

2.7 ELECTRONIC ACCESS CONTROL WIRELESS CYLINDRICAL LOCK

A. Manufacturers:
    1. Scheduled Manufacturer and Product:
        a. Schlage NDEB series
    2. Acceptable Manufacturers and Products:
        a. No Substitute
B. Requirements:
    1. ANSI/BHMA A156.2 Series 4000, Grade 1.
    2. Florida Building Code (ASTM E330, E1886, E1996) and Miami Dade (TAS 201, 202, 203) requirements for hurricanes.
    3. Certified to UL10C 3-hour rating, ULC-S319, FCC Part15, ADA RoHS, ICC ANSI A117.1

4. Listed, UL 294 - The Standard of Safety for Access Control System Units.
5. Compliant with ANSI/BHMA A156.25 Operation and Security interior operating range of 32 degrees F (0 degrees C) to 120 degrees F(49 degrees C) for interior use only.
6. Compliant with ASTM E330 for door assemblies.
7. Compliant with ICC / ANSI A117.1, NFPA 101, NFPA 80 and IBC Chapter 10 Cylinders: Refer to "KEYING" article, herein.
8. Provide cylindrical locksets exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security, and durability in the categories below:
    a. Abusive Locked Lever Torque Test – minimum 3,100 inch-pounds without gaining access
    b. Offset lever pull – minimum 1,600-foot pounds without gaining access
    c. Vertical lever impact – minimum 100 impacts without gaining access
    d. Cycle Test - tested to minimum 16 million cycles with no visible lever sag or use of performance aids such as set screws or spacers.
9. Emergency Override: Provide mechanical key override; cylinders: Refer to "KEYING" article, herein.
10. Levers:
    a. Vandal Resistance: Exterior (secure side) lever rotates freely while door remains locked, preventing damage to internal locking components from vandalism by excessive force.
    b. Provide lever trim that operates independently of each other and is field reversible without tools.
    c. Style: SPA
11. Power Supply: 4 AA batteries
    a. Provide battery powered wireless electronic products with the ability to communicate battery status and battery voltage level by means of a mobile app at door and remotely by Partner integrated software.
12. Features:
    a. Ability to communicate unit's communication status.
    b. Visual LED indicators that indicate activation, operational systems status, system error conditions and low power conditions.
    c. Audible feedback that can be enabled or disabled.
    d. Suitable for both interior and exterior deployment.
    e. Employ Wi-Fi communications to permit remote view of audits and alerts, as well as provide automatic daily updates to lock configuration and user access rights.
13. Adaptability:

a. Open Architecture: Provide locksets manufactured with open architecture characteristics capable of handling new and existing access control software and credential reading technology. Can be supported by cloud-based web and mobile apps without the need for an integrated software partner.

14. Switches:
    a. Door Position Sensor – magnet integrated into strike to eliminate additional door prep
    b. Interior Cover Tamper Guard
    c. Battery Status
    d. Request to Exit
    e. Interior Push Button
15. Credentials: Provide integral credential reader modules in the following configurations:
    a. NFC, including peer-peer compatible, operable with both Android and IOS mobile devices
    b. 125 kHz contactless smart cards
        1) Compatibility: Schlage, XceedID, ISONAS, HID, GE/CASI, AWID
    c. 13.56 MHz contactless smart cards
        1) Secure section (multi-technology and smart card) compatibility: Schlage MIFARE Classic, Schlage MIFARE DESFire EV1/EV3
        2) 13.56 MHz Serial number only (multi-technology and smart card) compatibility: DESFire CSN, HID iCLASS CSN, MIFARE CSN, MIFARE DESFire EV1/EV3 CSN
    d. Multi-technology contactless for applications requiring read capability for both 125 kHz proximity and 13.56 MHz contactless smart cards.
    e. BLE
16. Records: Subject to the limitations of the attached access control system, the wireless locks possess enough storage capacity to support 5000 users and 2000 audits.
17. Verification time: less than or equal to 1 second for smart cards and proximity cards
18. Coordinate with Division 01 and 281300 Access Control.

2.8 POWER SUPPLIES

A. Manufacturers and Products:
    1. Scheduled Manufacturer and Product:
        a. Schlage/Von Duprin PS900 Series
    2. Acceptable Manufacturers and Products:

a. Securitron BPS series

b. Security Door Controls 600 series

B. Requirements:

1. Provide power supplies approved by manufacturer of supplied electrified hardware.

2. Provide appropriate quantity of power supplies necessary for proper operation of electrified locking components as recommended by manufacturer of electrified locking components with consideration for each electrified component using power supply, location of power supply, and approved wiring diagrams. Locate power supplies as directed by Architect.

3. Provide regulated and filtered 24 VDC power supply, and UL class 2 listed.

4. Provide power supplies with the following features:

a. 12/24 VDC Output, field selectable.

b. Class 2 Rated power limited output.

c. Universal 120-240 VAC input.

d. Low voltage DC, regulated and filtered.

e. Polarized connector for distribution boards.

f. Fused primary input.

g. AC input and DC output monitoring circuit w/LED indicators.

h. Cover mounted AC Input indication.

i. Tested and certified to meet UL294.

j. NEMA 1 enclosure.

k. Hinged cover w/lock down screws.

l. High voltage protective cover.

2.9 CYLINDERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:

a. Existing BEST System.

2. Acceptable Manufacturers and Products:

a. No Substitute

B. Requirements:

1. Provide cylinders/cores, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.

2.10 KEYING

A. Scheduled System:

1. Existing factory registered system:
    a. Provide cylinders/cores keyed into Owner's existing factory registered keying system. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

B. Requirements:
1. Construction Keying:
    a. Replaceable Construction Cores.
        1) Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
            a) 3 construction control keys
            b) 12 construction change (day) keys.
        2) Owner or Owner's Representative will replace temporary construction cores with permanent cores.
2. Permanent Keying:
    a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
        1) Master Keying system as directed by the Owner.
    b. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
    c. Provide keys with the following features:
        1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
        2) Patent Protection: Keys and blanks protected by one or more utility patent(s).
        3) Geographically Exclusive: Where High Security or Security cylinders/cores are indicated, provide nationwide, geographically exclusive key system complying with the following restrictions.
    d. Identification:
        1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
        2) Identification stamping provisions must be approved by the Architect and Owner.
        3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
        4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
        5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.

e. Quantity: Furnish in the following quantities.
   1) Permanent Control Keys: 3.
   2) Master Keys: 6.
   3) Change (Day) Keys: 3 per cylinder/core that is keyed differently
   4) Key Blanks: Quantity as determined in the keying meeting.

2.11 DOOR CLOSERS

A. Manufacturers and Products:
   1. Scheduled Manufacturer and Product:
      a. LCN 4040XP series
   2. Acceptable Manufacturers and Products:
      a. No Substitute

B. Requirements:
   1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
   2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
   3. Cylinder Body: 1-1/2-inch (38 mm) diameter piston with 5/8-inch (16 mm) diameter double heat-treated pinion journal. QR code with a direct link to maintenance instructions.
   4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
   5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards. Provide snap-on cover clip, with plastic covers, that secures cover to spring tube.
   6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck. Provide graphically labelled instructions on the closer body adjacent to each adjustment valve. Provide positive stop on reg valve that prevents reg screw from being backed out.
   7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
   8. Pressure Relief Valve (PRV) Technology: Not permitted.
   9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).

10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.
11. Closers shall be capable of being upgraded by adding modular mechanical or electronic components in the field.

2.12 PROTECTION PLATES

A. Manufacturers:
   1. Scheduled Manufacturer:
      a. Trimco
   2. Acceptable Manufacturers:
      a. Ives
      b. Rockwood

B. Requirements:
   1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
   2. Sizes plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
   3. At fire rated doors, provide protection plates over 16 inches high with UL label.
   4. At fire rated doors, provide protection plate with option for adhesive tape mounted protection plates over 16 inches high provide UL label stamp..

2.13 DOOR STOPS AND HOLDERS

A. Manufacturers:
   1. Scheduled Manufacturer:
      a. Trimco
   2. Acceptable Manufacturers:
      a. Ives
      b. Rockwood

B. Provide door stops at each door leaf:
   1. Provide wall stops wherever possible. Provide concave type where lockset has a push button of thumbturn.
   2. Where a wall stop cannot be used, provide universal floor stops.
   3. Where wall or floor stop cannot be used, provide overhead stop.
   4. Provide roller bumper where doors open into each other and overhead stop cannot be used.

2.14 DOOR POSITION SWITCHES

A. Manufacturers:

1. Scheduled Manufacturer:
    a. Schlage
2. Acceptable Manufacturers:
    a. GE-Interlogix

B. Requirements:

1. Provide recessed or surface mounted type door position switches as specified.
2. Coordinate door and frame preparations with door and frame suppliers. If switches are being used with magnetic locking device, provide minimum of 4 inches (102 mm) between switch and magnetic locking device.

2.15 FINISHES

A. FINISH: BHMA 626/652 (US26D); EXCEPT:

1. Hinges at Exterior Doors: BHMA 630 (US32D)
2. Aluminum Geared Continuous Hinges: BHMA 628 (US28)
3. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
4. Protection Plates: BHMA 630 (US32D)
5. Overhead Stops and Holders: BHMA 630 (US32D)
6. Door Closers: Powder Coat to Match
7. Wall Stops: BHMA 630 (US32D)
8. Latch Protectors: BHMA 630 (US32D)
9. Weatherstripping: Clear Anodized Aluminum
10. Thresholds: Mill Finish Aluminum

3 EXECUTION

3.1 EXAMINATION

A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.

B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.

C. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.

1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
2. Custom Steel Doors and Frames: HMMA 831.
3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
4. Installation Guide for Doors and Hardware: DHI TDH-007-20

B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.

C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.

D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.

E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.

H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.

I. Lock Cylinders:

1. Install construction cores to secure building and areas during construction period.
2. Replace construction cores with permanent cores as indicated in keying section.
3. Furnish permanent cores to Owner for installation.

J. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:

1. Conduit, junction boxes and wire pulls.
2. Connections to and from power supplies to electrified hardware.
3. Connections to fire/smoke alarm system and smoke evacuation system.
4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
5. Connections to panel interface modules, controllers, and gateways.
6. Testing and labeling wires with Architect's opening number.

K. Continuous Hinges: Re-locate the door and frame fire rating labels where they will remain visible so that the hinge does not cover the label once installed.

L. Door Closers & Auto Operators: Mount closers/operators on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers/operators so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.

M. Overhead Stops/Holders: Mount overhead stops/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.

N. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.

O. Thresholds:

1. Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."

2. Aluminum thresholds to be cut-in, and scribed around mullions, frame members, and stops. Do not butt to thresholds. Provide a continuous surface across full width of opening from jamb to jamb.

3. Where aluminum panic-type (rabbeted) thresholds with neoprene inserts are specified, undercut doors as required to properly mate with seal in threshold.

P. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.

Q. Perimeter Gasketing:

1. Apply to head and jamb, forming seal between door and frame.

2. Install gasketing in a manner eliminating need to cut any seal to install surface mounted hardware. Install compatible mounting bracket for surface mounted hardware unless minimum 1/4 inch thick solid aluminum seals are provided for mounting of surface applied hardware.

R. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.

S. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.3 ADJUSTING

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

1. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.4 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items per manufacturer's instructions to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.5 DOOR HARDWARE SCHEDULE

A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.

B. Discrepancies, conflicting hardware, and missing items are to 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.

C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.

D. Hardware Sets:

149685 OPT0480353 Version 1

HARDWARE GROUP NO. 01

V134 V135 V142 V143 V145 V146 V147

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM SECURITY W/ INSIDE INDICATOR	L9071BDC 17N IS-LOC	626	SCH
2	EA	SFIC CORE	KEYED TO/MATCH EXISTING SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	PROTECTION PLATE	10X2 LDW-CSK	630	TRM
1	EA	WALL BMPR CAST CONVEX SCW	1270-CX	626	TRM

NOTE: FIELD VERIFY EXISTING CONDITIONS FOR INSTALLATION OF NEW HARDWARE ON EXISTING FRAME PRIOR TO BIDDING OR ORDERING MATERIAL.
NOTE: PROVIDE RIV NUT TYPE FASTENERS WHERE PROPER REINFORCEMENT IN EXISTING FRAME IS NOT PRESENT.

HARDWARE GROUP NO. 02 - NOT USED

HARDWARE GROUP NO. 03

R116A

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 17N L583-363	626	SCH
1	EA	SFIC CORE	KEYED TO/MATCH EXISTING SYSTEM	626	BES
1	EA	WALL BMPR CAST CONVEX SCW	1270-CX	626	TRM

HARDWARE GROUP NO. 04

R116B

PROVIDE EACH BL DOOR(S) WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR

BORROWED LITE NO HARDWARE

HARDWARE GROUP NO. 05

R112

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	EU STOREROOM LOCK	ND80BDCEU SPA RX CON 12V/24V DC	626	SCH
1	EA	SFIC CORE	KEYED TO/MATCH EXISTING SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	PROTECTION PLATE	10X2 LDW-CSK	630	TRM
1	EA	CREDENTIAL READER	BY DIVISION 28 SUPPLIER		UNK
1	EA	DOOR CONTACT	679-05HM	BLK	SCE
1	EA	POWER SUPPLY	PS902 120/240 VAC	LGR	SCE

CREDENTIAL READER DEVICE IS TO RELEASE OUTSIDE LEVER AND SHUNT ANY ALARM ASSOCIATED WITH THE DOOR CONTACT ALLOWING MANUAL INGRESS. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

RX IN INSIDE LEVER SHUNTS ANY ALARM ASSOCIATED WITH THE DOOR CONTACT FOR AUTHORIZED EGRESS.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER: CREDENTIAL READER DEVICE. REQUIRED WIRING FROM THE PS902 POWER SUPPLY (WHICH POWERS THE FAIL SECURE ELECTRFIED LOCKSET) AND THE FAIL SECURE ELECTRIFIED LOCKSET ITSELF.

HARDWARE GROUP NO. 06

R115

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	EU STOREROOM LOCK	ND80BDCEU SPA RX CON 12V/24V DC	626	SCH
1	EA	SFIC CORE	KEYED TO/MATCH EXISTING SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	PROTECTION PLATE	10X2 LDW-CSK	630	TRM
1	EA	WALL BMPR CAST CONVEX SCW	1270-CX	626	TRM
1	EA	CREDENTIAL READER	BY DIVISION 28 SUPPLIER		UNK
1	EA	DOOR CONTACT	679-05HM	BLK	SCE
1	EA	POWER SUPPLY	PS902 120/240 VAC	LGR	SCE

CREDENTIAL READER DEVICE IS TO RELEASE OUTSIDE LEVER AND SHUNT ANY ALARM ASSOCIATED WITH THE DOOR CONTACT ALLOWING MANUAL INGRESS. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

RX IN INSIDE LEVER SHUNTS ANY ALARM ASSOCIATED WITH THE DOOR CONTACT FOR AUTHORIZED EGRESS.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER: CREDENTIAL READER DEVICE. REQUIRED WIRING FROM THE PS902 POWER SUPPLY (WHICH POWERS THE FAIL SECURE ELECTRFIED LOCKSET) AND THE FAIL SECURE ELECTRIFIED LOCKSET ITSELF.

HARDWARE GROUP NO. 07

R112 ALT

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	WIRELESS ELECTRONIC LOCK	NDEBBDC SPA BATTERY OPERATED BY DIVISION 28 SUPPLIER	626	SCE
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	ACCESSORIES	GWE BY DIVISION 28 SUPPLIER		SCE
	EA	NOTE	BALANCE OF EXISTING HARDWARE TO REMAIN		

NOTE: PROVIDE ANY AND ALL PLATES REQUIRED TO COVER/BLANK EXISTING UNUSED DOOR AND FRAME PREPS. PROVIDE RIV-NUT TYPE FASTENERS WHERE PROPER REINFORCEMENT IN THE FRAME IS NOT PRESENT. FIELD VERIFY ALL EXISTING OPENINGS TO CONFIRM FUNCTIONALITY OF NEW HARDWARE ITEMS.

NOTE: IF CLOSER EXISTS CURRENTLY AT OPENING, OMIT FROM SET.

HARDWARE GROUP NO. 08

R115 ALT

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	WIRELESS ELECTRONIC LOCK	NDEBBDC SPA BATTERY OPERATED BY DIVISION 28 SUPPLIER	626	SCE
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	WALL BMPR CAST CONVEX SCW	1270-CX	626	TRM
1	EA	ACCESSORIES	GWE BY DIVISION 28 SUPPLIER		SCE
	EA	NOTE	BALANCE OF EXISTING HARDWARE TO REMAIN		

NOTE: PROVIDE ANY AND ALL PLATES REQUIRED TO COVER/BLANK EXISTING UNUSED DOOR AND FRAME PREPS. PROVIDE RIV-NUT TYPE FASTENERS WHERE PROPER REINFORCEMENT IN THE FRAME IS NOT PRESENT. FIELD VERIFY ALL EXISTING OPENINGS TO CONFIRM FUNCTIONALITY OF NEW HARDWARE ITEMS.

NOTE: IF CLOSER EXISTS CURRENTLY AT OPENING, OMIT FROM SET.

HARDWARE GROUP NO. CO

R113

PROVIDE EACH CO DOOR(S) WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
CASED OPENING NO HARDWARE				

END OF SECTION

SECTION 09 67 21
EPOXY FLOORING

1 General

1.1 Summary

A. This Section includes slip-resistant epoxy-resin flooring system.

1.2 References

A. ASTM D4258 Standard Practice for Surface Cleaning Concrete for Coating.

B. ASTM D4263 Standard Test Method of Indicating Moisture in Concrete by the Plastic Sheet Method.

C. ASTM D4541 Standard Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers.

D. ASTM F1869: Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.

E. SSPC-SP7 Brush Off Blast Cleaning.

1.3 Submittals

A. Product Data: For each type of product specified. Include manufacturer's technical data, installation instructions, and recommendations for each epoxy flooring component required.

B. Samples for Verification: Of each epoxy flooring system required, 6 inches square, applied by Installer for this Project to a rigid backing, in color, texture, and finish indicated. Where finishes involve normal color and texture variations, include Sample sets showing full range of variations expected.

C. Installer Certificates: Signed by manufacturer certifying that installers have been trained and are approved by the manufacturer.

D. Material Certificates: Signed by manufacturers certifying that materials furnished comply with requirements.

E. Maintenance Data: For epoxy flooring to include in maintenance manuals.

1.4 Quality Assurance

A. Installer Qualifications: An installer with minimum 10 years experience who has specialized in installing epoxy flooring similar in material, design, and extent to that indicated for this Project and who is acceptable to epoxy flooring manufacturer.

1. Engage an installer who employs only persons trained and approved by epoxy flooring manufacturer for installing epoxy flooring systems specified.

B. Source Limitations: Obtain primary epoxy flooring materials, including primers, resins, hardening agents, and sealing or finish coats, through one source from a single manufacturer. Provide secondary materials including patching and fill material, joint sealant, and repair materials of type and from source recommended by manufacturer of primary materials.

C. Pre-Installation Conference: Conducted at project site and attended by all personnel including Architect, Contractor/Subcontractor, and Flooring Manufacturer Representative.

1.5 Delivery and Storage

A. Deliver coating materials to jobsite in their original, unopened containers with the proper, fully legible labels attached. Damaged containers shall not be used.

B. Whenever possible, the work area and mixing area shall be covered from exposure to direct sunlight.

C. Materials shall be stored in tightly sealed original containers in a dry place at temperatures between 65 and 80 degrees F.

D. Flooring materials shall only be applied at temperatures between 50 and 85 degrees F.

1.6 Safety

A. Preparation and Application Procedures: In accordance with manufacturer's written instructions as well as site conditions and applicable Federal, state and local rules, and regulations.

B. Precautions shall be taken when working with these materials.

1. Use materials only in adequately ventilated areas, keep away from open flames, and store in dry, covered areas.

2. Workers shall always wear protective clothing, gloves, and eyewear when working with these products.

1.7 Project Conditions

A. Environmental Limitations: Comply with epoxy flooring manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting epoxy flooring installation.

B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during epoxy flooring installation.

C. Close spaces to traffic during epoxy flooring application and for not less than 24 hours after application, unless manufacturer recommends a longer period.

1.8 Warranty

A. Provide a written warranty covering materials and workmanship for a period of two years from date of Substantial Completion.

B. Warranty: Jointly signed by manufacturer and installer, without monetary limitation, in which manufacturer and installer agrees to repair or replace epoxy flooring that fails in materials or workmanship within specified warranty period.

2 Products

2.1 Manufacturers

A. Acceptable Manufacturers:

1. Sherwin-Williams, High Performance Flooring, Cleveland, Ohio.
2. Stonhard, Maple Shade, New Jersey.
3. Dura-Flex, East Hartford, Connecticut.
4. Dex-O-Tex, Roselle Park, New Jersey.

B. Basis of Design Products:

1. Sherwin-Williams; Standard Primer/Binder 3579, Steel Gray.
2. Sherwin-Williams; Standard Primer/Binder 3579 with 5310-7 (silica sand).
3. Sherwin-Williams; High Performance CR Epoxy 3746.

2.2 Materials

A. Epoxy Flooring: Consisting of two coats of primer, silica sand, and epoxy top coat.

1. Color: Steel Gray.

3 Execution

3.1 Examination

A. General: Do not apply epoxy flooring for at least 28 days following installation of concrete floor slab to permit complete curing.

B. Moisture Testing: Place a pre-weighted amount of anhydrous calcium chloride on a clean area of concrete slab and cover with a square of 6 mil plastic film, edges taped to the concrete surface. Leave plastic in place for 60 hours, or in accordance with printed instructions. Remove the plastic and measure the amount of moisture absorbed by the calcium chloride, converting it to pounds of moisture/ 1000 sf/ 24 hrs. Allowable moisture content shall not exceed 3 lbs/ 1000 sf/24 hrs. Test at the following rate:

1. For areas of 2000 sf or less, a minimum of 3 tests; for each additional 1000 sf, provide one additional test.

2. Conduct tests simultaneously one at center of room, and the others at perimeter, within five feet of walls. Submit written results to Architect and Owner's Representative for approval.

3.2 Preparation

A. General: Prepare and clean substrate according to epoxy flooring manufacturer's written instructions. Provide clean, dry, and neutral substrate for epoxy flooring application.

B. Concrete Substrates: Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants incompatible with epoxy flooring.

1. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup.

2. Repair damaged and deteriorated concrete according to epoxy flooring manufacturer's written recommendations.

C. Epoxy Materials: Mix components and prepare materials according to epoxy flooring manufacturer's written instructions.

D. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.

E. Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through epoxy flooring according to manufacturer's written recommendations.

3.3 Application

A. Primer: Install two coats of primer.

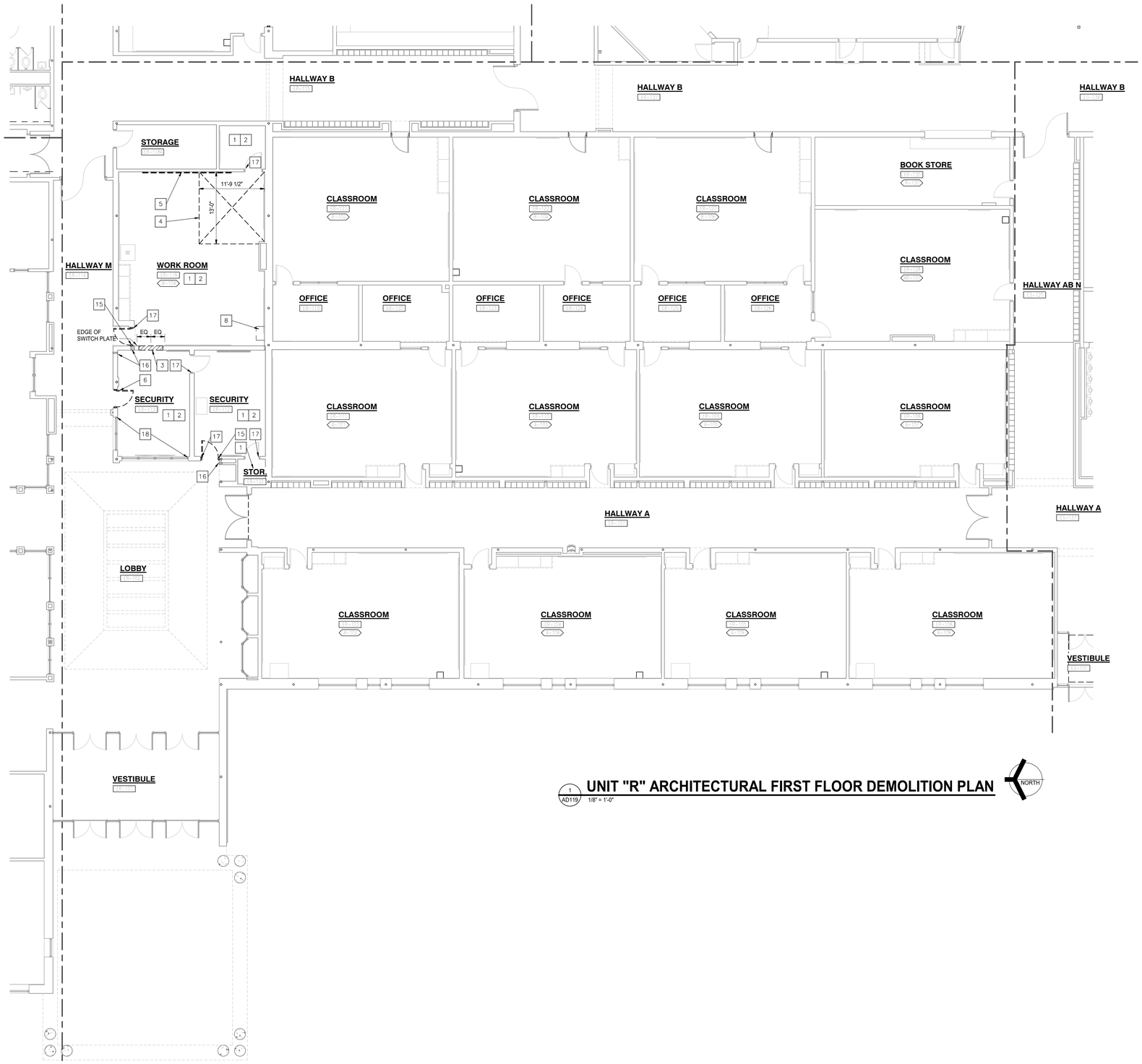
B. Broadcast silica sand into wet primer until refusal at a rate recommended by manufacturer.

C. Top Coat: Install epoxy top coat over silica sand and primer as recommended by manufacturer.

3.4 Demonstration

A. Engage a factory-authorized service representative to train Owner's maintenance personnel in maintenance and cleaning of finish floor surface.

END OF SECTION



1 AD119 **UNIT "R" ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN**

1/8" = 1'-0"

NORTH

GENERAL DEMOLITION NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC.

B. UNLESS NOTED OTHERWISE ON THIS SHEET, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL WORK INDICATED ON THIS SHEET.

C. CONTRACTORS ENCOUNTERING EXISTING MATERIAL WHICH IS SUSPECTED OF CONTAINING ASBESTOS SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND THE OWNERS REPRESENTATIVE.

D. BOLD DASHED LINES INDICATE EXISTING ITEMS TO BE REMOVED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXTENT OF DEMOLITION WORK PRIOR TO BIDDING AND FOR COORDINATING THE EXTENT OF DEMOLITION WITH THE INSTALLATION OF NEW SYSTEMS.

E. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION APPLICABLE TO THEIR SCOPE OF WORK AND AS REQUIRED FOR INSTALLATION OF NEW WORK WHETHER OR NOT IT IS SPECIFICALLY INDICATED OR NOTED IN THESE DOCUMENTS.

F. VERIFY ITEMS DEEMED OBSOLETE WITH ARCHITECT PRIOR TO REMOVAL. REFER TO NEW CONSTRUCTION DRAWINGS FOR DEMOLITION REQUIRED NOT SHOWN ON DEMOLITION PLANS.

G. PRIOR TO STARTING DEMOLITION, CONSTRUCT DUST CONTROL BARRIERS TO PREVENT THE SPREAD OF DUST INTO SURROUNDING AREAS. (WHERE APPLICABLE)

H. WHERE BUILDING EGRESS IS REQUIRED TO PASS THROUGH DEMOLITION AREAS, PROVIDE APPROVED BARRIERS, ETC. TO ENSURE SAFETY OF THE PUBLIC.

I. RELOCATED ITEMS SHALL BE CLEANED AND PLACED IN STORAGE, PER OWNERS' DIRECTION, UNTIL ITEMS ARE READY TO BE INSTALLED. IF ITEMS ARE DAMAGED DURING DEMOLITION OR RELOCATION, THEY SHALL BE REPAIRED OR REPLACED WITH NEW ITEMS AS APPROVED.

J. DEMOLITION SHALL BE PERFORMED WITHOUT DAMAGE TO EXISTING CONSTRUCTION TO REMAIN. WHERE SUCH DAMAGE OCCURS, PATCH, REPAIR, OR RESTORE WALLS, FLOORS, CEILING, ETC. NEATLY TO MATCH EXISTING ADJACENT SURFACE. PROVIDE SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURES.

K. EACH CONTRACTOR IS RESPONSIBLE FOR CUTTING, PATCHING, AND DISCONNECTION OF ITEMS APPLICABLE TO THEIR SCOPE OF WORK. WHERE EXISTING SERVICES ARE ABANDONED, CAP AT LEAST 1" BEHIND NEW FINISHES AND/OR EXISTING SURFACE AND PATCH TO RECEIVE NEW FINISHES OR MATCH EXISTING FINISH.

L. ON WALLS THAT ARE TO RECEIVE NEW FINISHES, REMOVE AND REINSTALL EXISTING EQUIPMENT TO REMAIN FOR INSTALLATION OF NEW FINISHES.

M. WHERE WALLS OR BULKHEADS ARE REMOVED, PATCH FLOORS, CEILINGS, AND ADJACENT WALLS AS REQUIRED TO MATCH EXISTING OR RECEIVE NEW FINISHES WHERE APPLICABLE. WHERE EXISTING DUCTWORK, PIPING, OR EQUIPMENT IS REMOVED, PATCH OPENINGS AND/OR SURFACES TO MATCH ADJACENT SURFACES OR RECEIVE NEW FINISHES WHERE APPLICABLE. REFER TO ALL DEMOLITION DRAWINGS FOR EXTENT OF ITEMS TO REMOVED.

N. OVER CUT NEW OPENINGS IN EXISTING WALL AS REQUIRED FOR NEW CONSTRUCTION. PATCH AND REPAIR WALLS TO MATCH EXISTING. WHERE APPLICABLE, TOOTH NEW MASONRY INTO EXISTING MASONRY.

O. ALL EQUIPMENT AND FURNITURE WHICH ARE CONSIDERED LOOSE FURNISHING SHALL BE REMOVED BY THE OWNER PRIOR TO DEMOLITION.

P. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL REVIEW OF GENERAL DEMOLITION NOTES DEMOLITION PLAN KEYNOTES AS THEY APPLY TO THEIR SCOPE OF WORK.

Q. THE OWNER SHALL RESERVE THE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE.

R. REFER TO THE STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND TECHNOLOGY DOCUMENTS FOR COMPLETE SCOPE OF DEMOLITION WORK.

S. "FLOORING" DENOTES FLOOR COVERING MATERIALS INCLUDING BACKING, ADHESIVES, AND BASES DOWN TO BUT EXCLUSIVE OF FLOOR SLABS AND STRUCTURAL MATERIALS UNLESS NOTED OTHERWISE.

T. DEMOLITION IS TO FOLLOW ESTABLISHED CONSTRUCTION SEQUENCE. REFER TO SPECIFICATIONS AND DRAWINGS FOR REQUIREMENTS AND SPECIAL CONDITIONS.

U. WHERE APPLICABLE SALVAGE EXISTING MASONRY (FACE BRICK, GLAZED CMU, FACING TILE) FOR PATCHING AND INFILL IN RENOVATED AREAS WHERE INDICATED. DISCARD UNUSED PORTION OFF SITE.

V. MARKER BOARDS AND TACK BOARDS TO REMAIN, UNLESS NOTED OTHERWISE.

W. OWNER TO REMOVE CEILING MOUNTED PROJECTORS AND WALL MOUNTED CLOCKS.

X. PROTECT EXISTING CASEWORK TO REMAIN.

Y. EXISTING CEILING TO REMAIN UNLESS NOTED OTHERWISE.

DEMOLITION LEGEND:

(XXXX) INDICATES EXISTING ROOM NUMBER AS IT APPEARS ON EXISTING DOOR OR WALL.

DEMOLITION PLAN KEYNOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

1. REMOVE EXISTING WALL COVERING IN ITS ENTIRETY. CUT WALLCOVERING RIGHT AT MARKER BOARDS AND TACK BOARDS TO REMAIN. PATCH AND REPAIR WALLS AND SKIMCOAT ENTIRE PLASTER/GYPSUM WALL.
2. REMOVE EXISTING CARPET AND WALL BASE IN ITS ENTIRETY. PATCH AND REPAIR FLOOR AND WALLS TO RECIEVE NEW FINISHES. REFER TO A-800 SERIES DRAWINGS.
3. REMOVE EXISTING MASONRY WALL FROM SLAB TO 7'-4" AFF. PATCH AND REPAIR ADJACENT WALL AND FLOOR TO RECEIVE NEW FINISHES.
4. REMOVE EXISTING LAY-IN CEILING IN THIS AREA FOR NEW CONSTRUCTION. SUPPORT EXISTING FIXTURES AND DEVICES TO REMAIN.
5. REMOVE EXISTING MARKERBOARD, TACKBOARD, TACKSTRIP IN ITS ENTIRETY. PATCH AND PREP FOR NEW FINISHES.
6. REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY. PATCH ADJACENT WALLS TO RECEIVE NEW FINISHES.
7. REMOVE LOOSE PAINT FROM WALLS. PREPARE FOR NEW PAINT.
8. REMOVE EXISTING ABANDONED RECESSED PHONE AND DATA BOX COMPLETE. PATCH AND REPAIR WALL TO RECEIVE NEW FINISHES.
9. REMOVE EXISTING DOOR LEAF AND HARDWARE IN ITS ENTIRETY. EXISTING DOOR FRAME TO REMAIN. TURN OVER HARDWARE TO OWNER.
10. OWNER TO REMOVE FLOORING AND BASE.
11. REMOVE TOILET PARTITIONS AND ACCESSORIES AND STORE FOR REINSTALLATION AT SAME LOCATION AND LAYOUT. CAREFULLY REMOVE ACCESSORIES FOR REUSE. REINSTALL PARTITIONS AT PART OF NEW CONSTRUCTION IN THE SAME LOCATION.
12. REMOVE TOILET PARTITIONS IN THEIR ENTIRETY. CAREFULLY REMOVE ACCESSORIES FOR REUSE. PREP FOR NEW PARTITIONS AT SAME LOCATION.
13. REMOVE FLOOR OUTLETS. FILL VOID WITH CONCRETE. REFER TO "(#)" FOR COUNT. REFER TO ELECTRICAL DRAWINGS.
14. REMOVE VENTILATOR UNIT. REFER TO MECHANICAL DRAWINGS. PATCH GYPSUM WALL WHERE IT REMAINS VISIBLE AFTER THE INSTALLATION OF THE NEW UNIT.
15. REMOVE DOOR AND FRAME. PATCH WALL TO RECEIVE NEW FINISHES AND FRAME
16. CAREFULLY REMOVE WALL FOR INSTALLATION OF NEW CARD ACCESS DEVICE AND ELECTRONIC STRIKE. AT THE CASE WHERE THERE IS CARPET WALL COVERING, PEEL BACK EXISTING WALL CARPET, PROTECT AND SAVE WALL CARPET FOR REINSTALLATION, ONCE INSTALLATION OF NEW CARD ACCESS DEVICES ARE INSTALLED.
17. REMOVE EXISTING FINISHES FROM BOTH SIDES OF METAL FRAME AND PREPARE TO RECEIVE NEW FINISHES. REFER TO A-800 SERIES SHEETS.
18. REMOVE EXISTING FINISHES FROM OFFICE SIDE OF METAL FRAME AND PREPARE TO RECEIVE NEW FINISHES. REFER TO A-800 SERIES SHEETS.
19. REMOVE DOOR STOP. PATCH WALL AND PREP FOR NEW FINISHES.
20. REMOVE ELECTRICAL FLOOR STRIP FOR INSTALLATION OF NEW FINISHES. REFER TO ELECTRICAL DRAWINGS. REINSTALL AFTER FLOOR FINISH INSTALLATION

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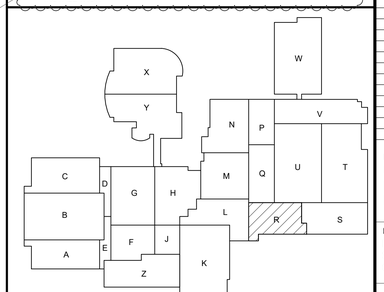

KEY PLAN

NORTH

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT:

MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
MERRILLVILLE, IN, 46410

BID SET

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Indianapolis, IN 46268
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PROJECT
25-180
DATE
04/07/26
COORDINATED BY
EJM
DRAWN BY
CJA
CHECKED BY
EJM

JOSEPH P. BRIGGS REGISTERED ND. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-01	04-30-26	ADDENDUM 01

DRAWING
UNIT "R" ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

R

SHEET
AD119

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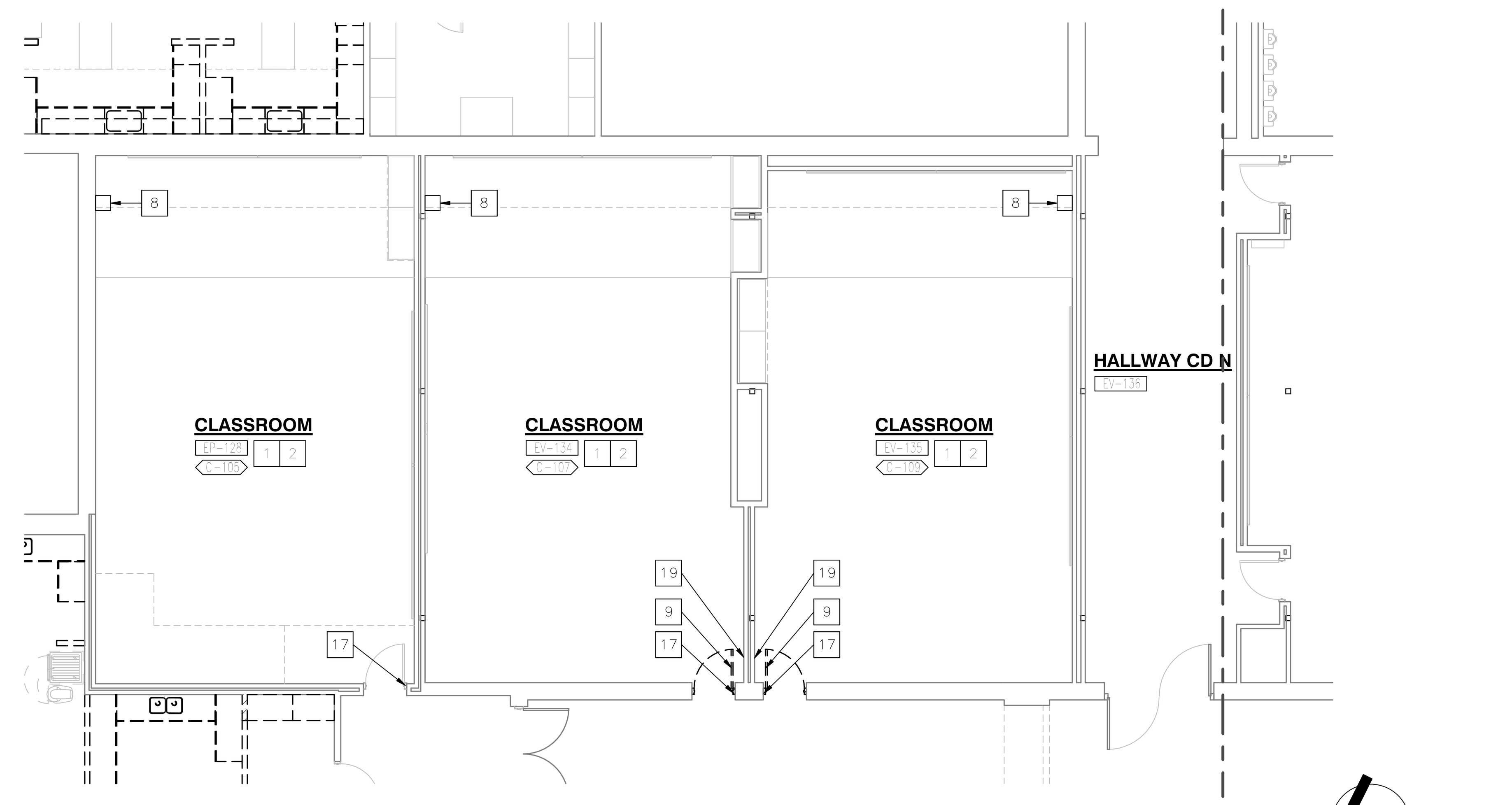
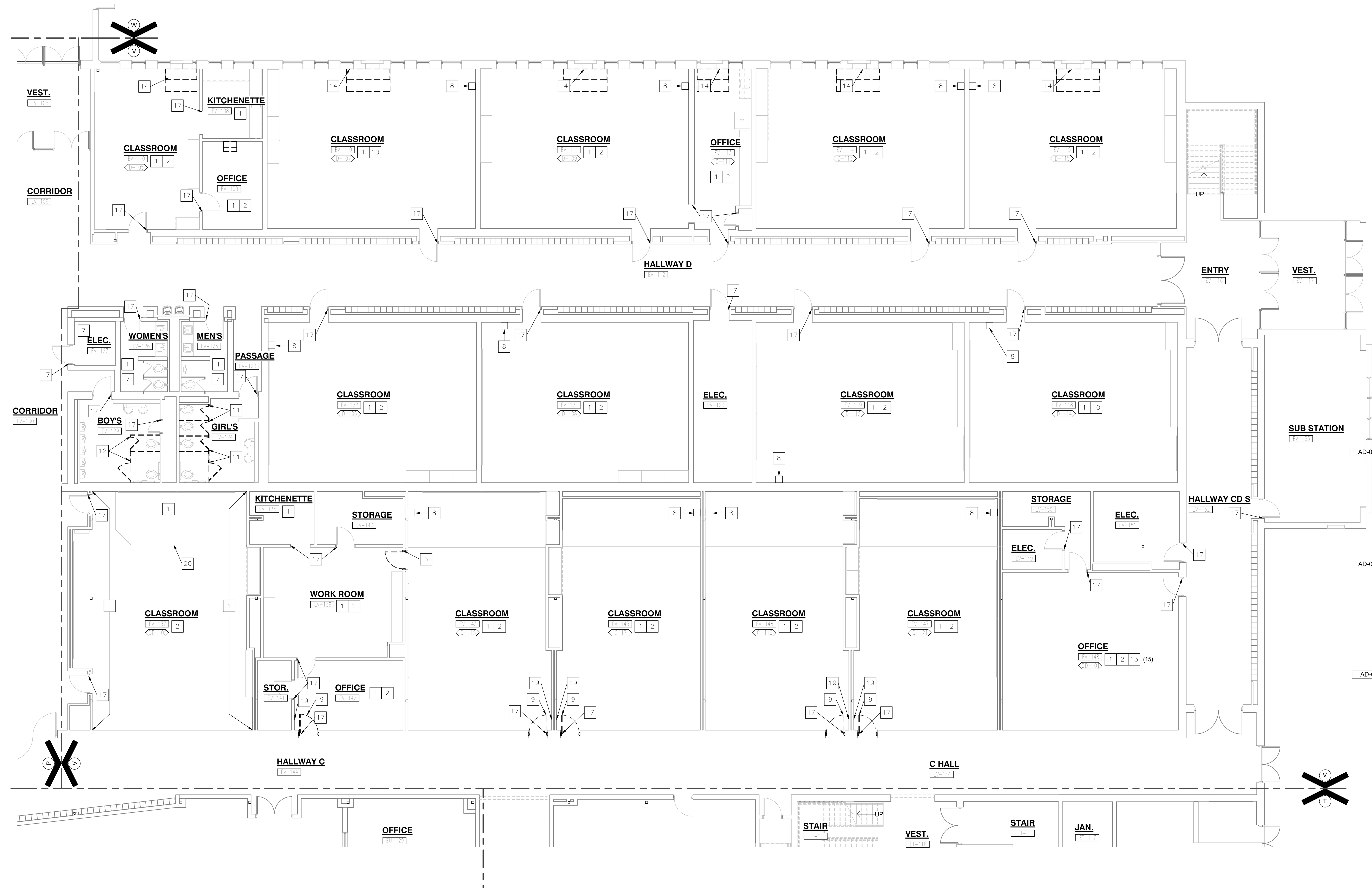


2 AD123 PARTIAL UNIT "P" ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"

NORTH



1 AD123 UNIT "V" ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN
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W. OWNER TO REMOVE CEILING MOUNTED PROJECTORS AND WALL MOUNTED CLOCKS.

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Y. EXISTING CEILING TO REMAIN UNLESS NOTED OTHERWISE.

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6 REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY. PATCH ADJACENT WALLS TO RECEIVE NEW FINISHES.
7 REMOVE LOOSE PAINT FROM WALLS. PREPARE FOR NEW PAINT.
8 REMOVE EXISTING ABANDONED RECESSED PHONE AND DATA BOX COMPLETE. PATCH AND REPAIR WALL TO RECEIVE NEW FINISHES.
9 REMOVE EXISTING DOOR LEAF AND HARDWARE IN ITS ENTIRETY. EXISTING DOOR FRAME TO REMAIN. TURN OVER HARDWARE TO OWNER.
10 OWNER TO REMOVE FLOORING AND BASE.
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12 REMOVE TOILET PARTITIONS IN THEIR ENTIRETY. CAREFULLY REMOVE ACCESSORIES FOR REUSE. PREP FOR NEW PARTITIONS AT SAME LOCATION.
13 REMOVE FLOOR OUTLETS. FILL VOID WITH CONCRETE. REFER TO "(#)" FOR COUNT. REFER TO ELECTRICAL DRAWINGS.
14 REMOVE VENTILATOR UNIT. REFER TO MECHANICAL DRAWINGS. PATCH GYPSUM WALL WHERE IT REMAINS VISIBLE AFTER THE INSTALLATION OF THE NEW UNIT.
15 REMOVE DOOR AND FRAME. PATCH WALL TO RECEIVE NEW FINISHES AND FRAME
16 CAREFULLY DEMOLISH WALL FOR INSTALLATION OF NEW CARD ACCESS DEVICE AND ELECTRONIC STRIKE. AT THE CASE WHERE THERE IS CARPET WALL COVERING, PEEL BACK EXISTING WALL CARPET, PROTECT AND SAVE WALL CARPET FOR REINSTALLATION, ONCE INSTALLATION OF NEW CARD ACCESS DEVICES ARE INSTALLED.
17 REMOVE EXISTING FINISHES FROM BOTH SIDES OF METAL FRAME AND PREPARE TO RECEIVE NEW FINISHES. REFER TO A-800 SERIES SHEETS.
18 REMOVE EXISTING FINISHES FROM OFFICE SIDE OF METAL FRAME AND PREPARE TO RECEIVE NEW FINISHES. REFER TO A-800 SERIES SHEETS.
19 REMOVE DOOR STOP. PATCH WALL AND PREP FOR NEW FINISHES.
20 REMOVE ELECTRICAL FLOOR STRIP FOR INSTALLATION OF NEW FINISHES. REFER TO ELECTRICAL DRAWINGS. REINSTALL AFTER FLOOR FINISH INSTALLATION

AD-01
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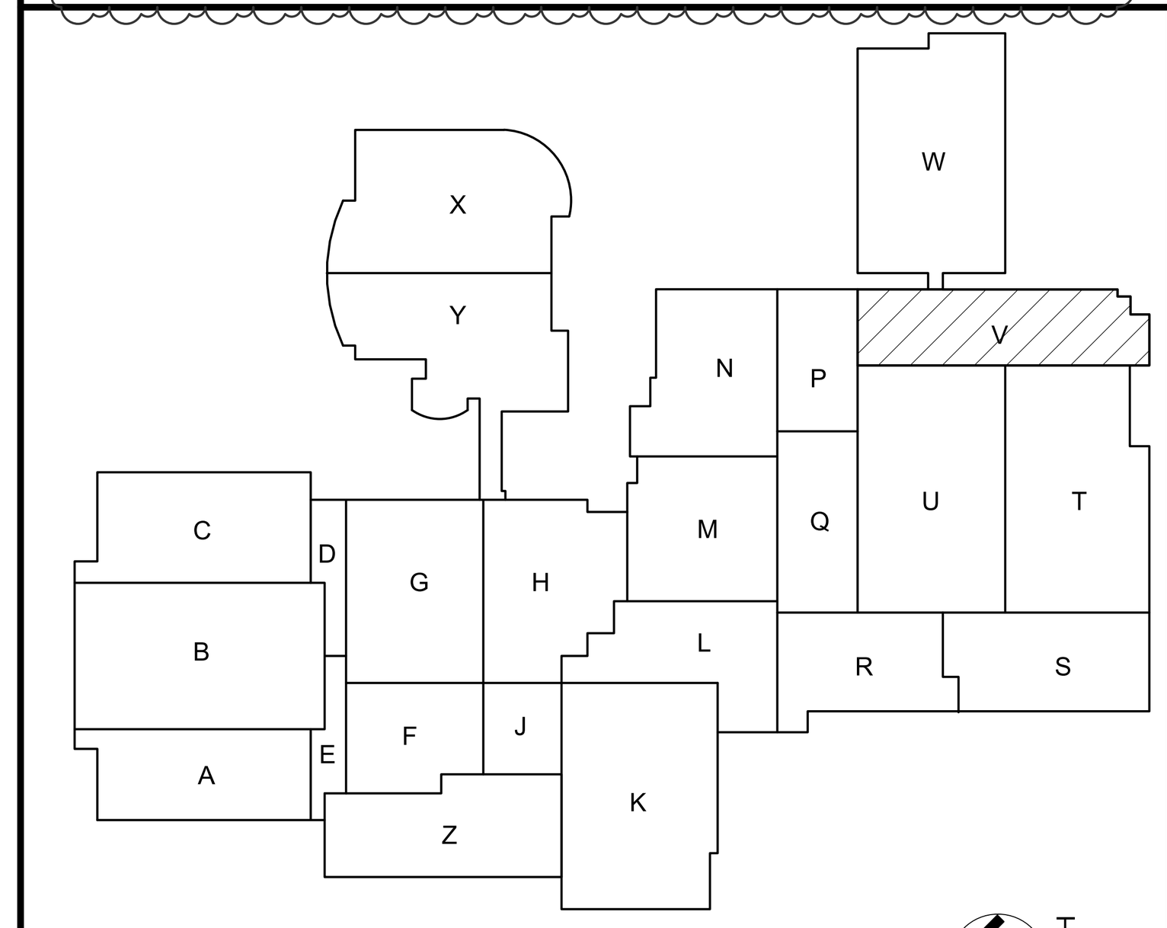

KEY PLAN

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT:

MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
MERRILLVILLE, IN, 46410

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PROJECT
25-180
DATE
04/07/26
COORDINATED BY
EJM
DRAWN BY
CJA
CHECKED BY
EJM

JOSEPH P. BRIGGS
REGISTERED
NO. 11600109
STATE OF INDIANA
ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-01	04-30-26	ADDENDUM 01

DRAWING
UNIT "V" ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN AND PARTIAL UNIT "P"

PROJECT
MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

V

SHEET
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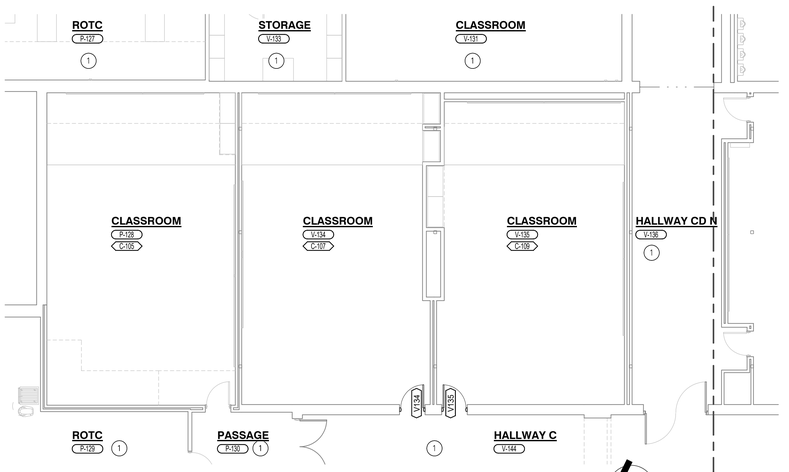


2 A-123 **PARTIAL UNIT "P" ARCHITECTURAL FIRST FLOOR PLAN**
1/8" = 1'-0"

1 A-123 **UNIT "V" ARCHITECTURAL FIRST FLOOR PLAN**
1/8" = 1'-0"

GENERAL PLAN NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO G-SERIES SHEETS.

B. PLAN DIMENSIONS TO MASONRY WALLS ARE TO FACE OF ROUGH MASONRY. PLAN DIMENSIONS TO STUD WALLS ARE TO FACE OF FINISHED GYPSUM BOARD OR PLASTER. PLAN DIMENSIONS TO STUD WALLS WITH CERAMIC TILE FINISH ARE TO THE FACE OF TILE BACKER BOARD.

C. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.

D. THE BASE FIRST FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.

E. REFER TO LIFE SAFETY PLANS REGARDING FIRE RATED WALL LOCATIONS AND OTHER CODE INFORMATION.

F. INTERIOR CMU WALLS ARE TO BE RUNNING BOND UNLESS NOTED OTHERWISE.

G. WHERE NEW CMU WALLS INTERSECT EXISTING CMU WALLS AT A CORNER OR ARE ALIGNED WITH EXISTING CMU WALLS, TOOTH NEW CMU INTO EXISTING CMU UNLESS NOTED OTHERWISE.

H. REFER TO DEMOLITION SHEETS FOR ADDITIONAL PATCHING AND REPAIR WORK.

I. PROVIDE SEALANT BETWEEN DISSIMILAR MATERIALS SUCH AS GYPSUM BOARD, MASONRY AND CONCRETE, COUNTERTOPS AND WALLS, ETC.

J. REFER TO FINISH PLANS FOR INTERIOR ELEVATIONS, LOCATION, AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.

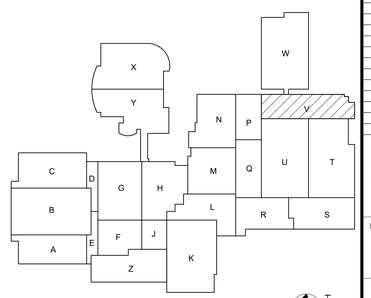
PLAN LEGEND:

INDICATES EXISTING ROOM NUMBER AS IT APPEARS ON EXISTING DOOR OR WALL.

ARCHITECTURAL PLAN KEYNOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

1 NO WORK.
2 INFILL WALL WITH CMU, FURRING STRIPS, AND GYPSUM BOARD TO MATCH ADJACENT WALL CONSTRUCTION. REFER TO PLAN DETAIL. FIELD VERIFY ACTUAL THICKNESS.
3 IN ROOM R115, CENTER NEW OPENING BETWEEN THE EDGE OF THE EXISTING FRAMED CORK BOARD AND EXISTING LIGHT SWITCH.
4 PATCH GYPSUM BOARD WALL WHERE CONDUIT WAS INSTALLED FOR CARD ACCESS AND ELECTRONIC STRIKE
5 PATCH EXPOSED OPENING AROUND NEW UNIT. PREP FOR NEW FINISHES.
6 INFILL FLOOR OUTLET VOIDS WITH CONCRETE. FLUSH WITH EXISTING CONCRETE SLAB.
7 NEW TOILET PARTITIONS. REINSTALL SALVAGED ACCESSORIES. REFER TO A-800 SERIES SHEETS
8 REINSTALL SALVAGED TOILET PARTITIONS AND ACCESSORIES.



KEY PLAN

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PROJECT 25-180
DATE 04/07/26
COORDINATED BY EJM
DRAWN BY CJA
CHECKED BY EJM

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

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DRAWING
UNIT "V" ARCHITECTURAL FIRST FLOOR PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

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SHEET V

A-123

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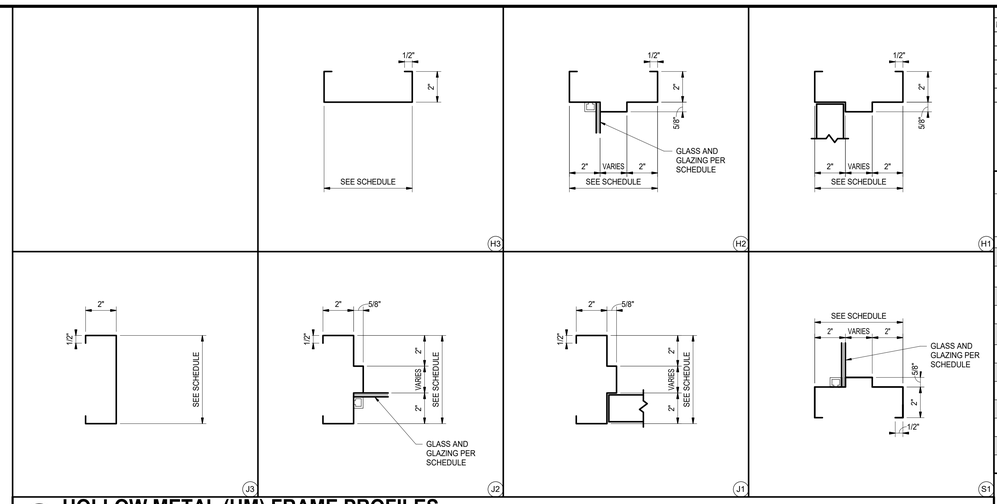
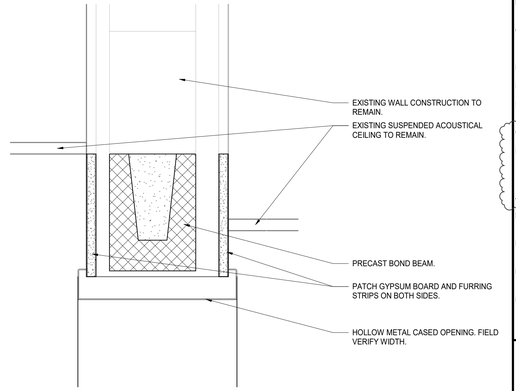


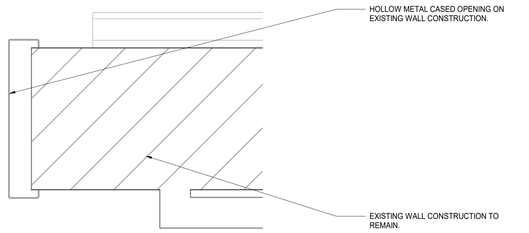
7 A-601 HOLLOW METAL (HM) FRAME PROFILES

3" = 1'-0"



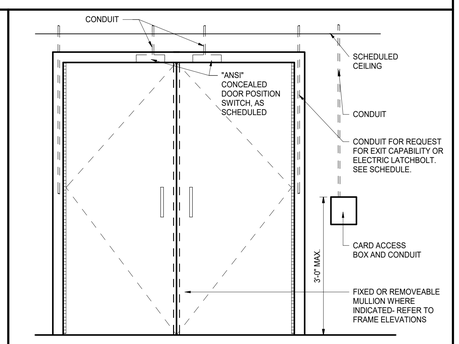
6 A-601 HEAD DETAIL

3" = 1'-0"



5 A-601 JAMB DETAIL

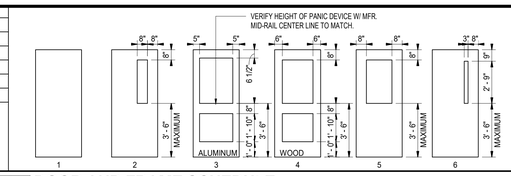
3" = 1'-0"



3 A-601 TYPICAL ELECT ROUGH/FRAME MOUNT

3/4" = 1'-0"

GLASS SCHEDULE	
MK	GLASS TYPES
A	1/4" TEMPERED (CLEAR)
B	1" INSUL. GLASS (CLEAR)
C	1" INSUL. GLASS (TINTED)
D	1/2" LAMINATED
S	SPANDREL



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DOOR AND FRAME SCHEDULE

NO.	DESCR	TYPE	DOOR W	DOOR H	DOOR MAT'L	GLASS DR	GLASS SIDE LGT	GLASS TRA	FRAME MAT'L	FRAME DEPTH	FRAME ELEV.	LABEL	HARDWARE CLOSER	HARDWARE EXIT DEVICE	NOTES
R112	SINGLE	1	3' - 0"	7' - 2"	WD				HM	6"	HM1				3
R113	CASED OPENING	--	4' - 0"	7' - 2"	--	A	--	--	HM	10 3/8"	HM2	--			1
R115	SINGLE	1	3' - 0"	7' - 0"	WD				HM	6"	HM1				3
R116A	SINGLE	2	3' - 0"	7' - 2"	WD	A	--	--	HM	6"	HM1	--			
R116B	BORROWED LITE	--	3' - 0"	4' - 0"	--	--	A	--	HM	6"	HM3	--			
V134	SINGLE	2	3' - 0"	7' - 0"	WD	A	--	--	EXIST		EXIST	--			2, 4
V135	SINGLE	2	3' - 0"	7' - 0"	WD	A	--	--	EXIST		EXIST	--			2, 4
V142	SINGLE	2	3' - 0"	7' - 0"	WD	A	--	--	EXIST		EXIST	--			2, 4
V143	SINGLE	2	3' - 0"	7' - 0"	WD	A	--	--	EXIST		EXIST	--			2, 4
V145	SINGLE	2	3' - 0"	7' - 0"	WD	A	--	--	EXIST		EXIST	--			2, 4
V146	SINGLE	2	3' - 0"	7' - 0"	WD	A	--	--	EXIST		EXIST	--			2, 4
V147	SINGLE	2	3' - 0"	7' - 0"	WD	A	--	--	EXIST		EXIST	--			2, 4

GENERAL DOOR NOTES:

A. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. SEE A-800 SERIES DRAWINGS FOR FINISHES.

B. SEAL ALL JAMBS AND HEADS WHERE FRAMES MEET EXPOSED MASONRY AND/OR GYPSUM BOARD.

C. PROVIDE A 3/4"x3/4" SCRIBE MOLD AT ALL EXTERIOR DOOR FRAMES AND WHERE NOTED ON DRAWINGS. METAL AT EXTERIOR OF METAL FRAMES AND AT BOTH SIDES OF ALUMINUM FRAMES. SET SCRIBE MOLDS IN SEALANT.

AD-01

D. PROVIDE GLAZING AND GLASS STOPS AS REQUIRED.

E. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.

F. SHIM SPACE IS NOT SHOWN ON FRAME ELEVATIONS FOR ALUMINUM STOREFRONT. TAKE THESE DIMENSIONS INTO ACCOUNT AND ADJUST DIMENSIONS ACCORDINGLY.

G. FOR DOOR POSITION WITHIN WALL REFER TO FRAME MOUNTING DETAIL 1/ A601.

H. FOR ELECTRIC ROUGH-IN AT DOORS REFER TO DETAIL 3/ A601.

I. FOR HOLLOW METAL FRAME ELEVATIONS (HM) REFER TO 4/ A601. FOR HOLLOW METAL (HM) FRAME PROFILES REFER TO 7/ A601.

J. NOT USED.

K. GLASS NOTED IN DOOR COLUMN FOR BORROWED LIGHT FRAMES APPLIES TO ALL OPENINGS IN FRAME, UNLESS NOTED OTHERWISE. REFER TO FRAME ELEVATIONS.

L. REFER TO FLOOR PLANS FOR LOCATIONS OF ADA PUSH PADS FOR POWER ASSISTED OPERATORS.

M. WHERE FRAMES INDICATE 2 OR MORE OPENINGS FOR DOORS, EACH SINGLE OR PAIR OF DOORS IS SCHEDULED SEPARATELY AND FRAME INDICATED.

N. REFER TO FRAME ELEVATIONS FOR HEAD, JAMB, AND SILL DETAILS.

DOOR SCHEDULE NOTES (REMARKS):

1. FIELD VERIFY EXISTING WALL CONSTRUCTION OPENING OR NEW WALL CONSTRUCTION OPENING IN EXISTING WALL INCLUDING WALL THICKNESS PRIOR TO ORDERING FRAME.
2. VERIFY EXISTING FRAME SIZE PRIOR TO ORDERING DOOR PANEL.
3. VERIFY EXISTING ROUGH OPENING PRIOR TO ORDERING DOOR FRAME AND SLAB.
4. INFILL DRILLED HOLES WITH BONDO.

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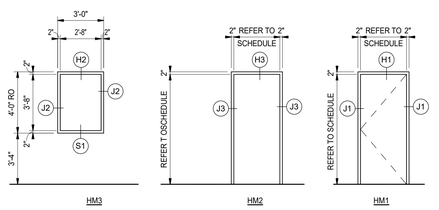
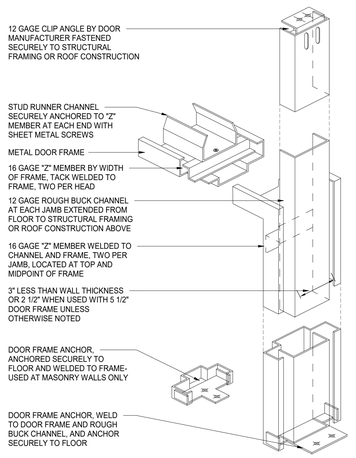


4 A-601 HOLLOW METAL FRAME ELEVATIONS (HM)

1/4" = 1'-0"

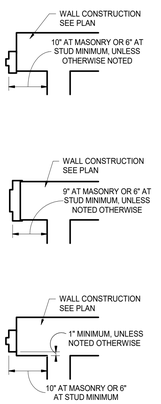
NOTES - HOLLOW METAL (HM)

1. FOR HOLLOW METAL HEAD, JAMB AND SILL DETAILS REFER TO WALL SECTIONS AND HOLLOW METAL (HM) FRAME PROFILES 7 / A-601 -
2. PROVIDE SEALANT AROUND PERIMETER OF ALL FRAMES.
3. DIMENSIONS SHOWN ARE NOMINAL. FIELD VERIFY ALL DIMENSIONS SHOWN PRIOR TO FABRICATION AND INSTALLATION.
4. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. SEE ROOM FINISH SCHEDULE FOR WALL FINISHES.
5. PROVIDE GLAZING AND GLASS STOPS AS REQUIRED.



TYPICAL HEAD & JAMB ANCHORAGE

2 A-601 NTS



1 A-601 FRAME MOUNTING

3/4" = 1'-0"

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PROJECT 25-180
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JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

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AD-01	04-30-26	ADDENDUM 01

DRAWING
DOOR SCHEDULE, FRAME PROFILES, ELEVATIONS AND DETAILS

PROJECT
MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

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A-601

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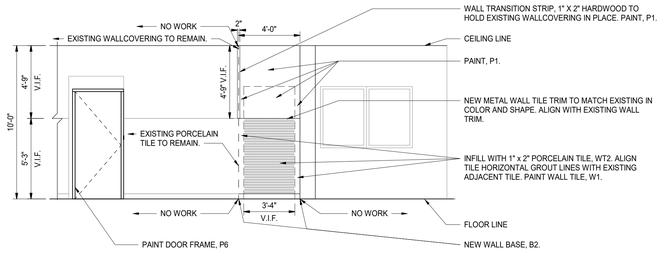
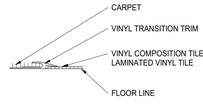
1 UNIT "R" FIRST FLOOR FINISH PLAN
A-819 — 1/8" = 1'-0"

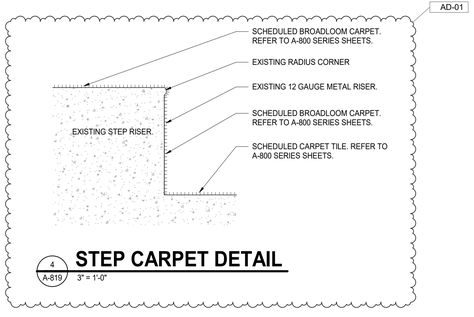


2 SECURITY OFFICE DOOR INFILL CORRIDOR SIDE
A-819 — 1/4" = 1'-0"



CARPET TO VINYL

3 FLOOR TRANSITION
A-819 — 3" = 1'-0"



4 STEP CARPET DETAIL
A-819 — 3" = 1'-0"

GENERAL FINISH NOTES:

A. REFERENCE FINISH LEGEND FOR FINISH INFORMATION.

B. REFERENCE EQUIPMENT PLANS, INTERIOR ELEVATIONS, REFLECTED CEILING PLANS AND WRITTEN SPECIFICATIONS FOR ADDITIONAL FINISH INFORMATION.

C. PRIOR TO INSTALLATION OF NEW FINISHES CONTRACTOR SHALL INSPECT ALL SUBSTRATES. IF A SUBSTRATE IS DEEMED UNACCEPTABLE THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO RECTIFY THE SITUATION OR CONTACT THE ARCHITECT WITH THE CONCERN. PROCEEDING WITH THE INSTALLATION OF FINISHES WILL BE CONSTRUED THAT THE INSTALLER AND /OR FINISHER HAS ACCEPTED SAID SUBSTRATE. NO CHANGE ORDER WILL BE ISSUED TO RECTIFY CONCEALED, OR UNSATISFACTORY SUBSTRATE ONCE FINISH WORK HAS PROCEEDED.

D. PREPARE ALL WALL CONSTRUCTION, NEW AND EXISTING, TO RECEIVE NEW FINISHES AS PER MANUFACTURE'S RECOMMENDED INSTALLATION METHODS AND MATERIALS FOR ALL FINISHES.

E. ALL FLOORING IS TO BE LEVELED WITHIN 1/4" IN 10'-0" WITH LATEX MATERIAL. MOISTURE CONTENT IN AREA IS TO BE TESTED PRIOR TO INSTALLATION OF FLOORING MATERIAL. CONTRACTOR TO INSTALL FLOORING PER MANUFACTURER'S RECOMMENDED METHOD.

F. FLOORING CONTRACTOR TO SUBMIT A SEAMING DIAGRAM FOR FLOORING MATERIAL INCLUDING NOTATION OF MATERIAL DIRECTION.

G. ALL FLOORING TRANSITIONS SHALL COMPLY WITH ADA GUIDELINES.

H. ALL FLOOR FINISH TRANSITIONS AT DOORS SHALL BE CENTERED UNDER DOOR WHEN CLOSED UNLESS NOTED OTHERWISE.

I. ALL EXPOSED METAL SURFACES, SUCH AS GRILLES, FIRE EXTINGUISHER CABINETS, ETC. THAT ARE NOTED TO BE PAINTED, SHALL BE PAINTED WITH ALKYD TYPE PAINT. COLOR TO BE COORDINATED WITH DESIGNER UNLESS OTHERWISE NOTED.

J. CONTRACTOR TO PROVIDE AND INSTALL FLOORING TRANSITIONS AS INDICATED ON THE FINISH PLANS. WHERE NONE ARE NOTED, CONTRACTOR SHALL VERIFY REQUIRED TYPE/COLOR WITH ARCHITECT.

K. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL NEW INTERIOR WALL AND CEILING FINISHES WILL BE CLASS B MINIMUM, WITH A FLAME SPREAD RATING OF 75 MAXIMUM, AND A SMOKE DEVELOPED INDEX OF 450 MAXIMUM, PER IBC SECTION 803.

L. PAINT ALL SIDES OF NEW AND EXISTING DOOR FRAMES, WHERE INDICATED, P6.

M. EXPOSED SURFACES OF DUCTWORK TO BE PAINTED TO MATCH ADJACENT SURFACES UNLESS NOTED OTHERWISE.

N. PAINT ALL SIDES OF BULKHEADS IN ROOMS RECEIVING FINISHES P10 UNLESS NOTED OTHERWISE.

O. REFER TO PROJECT MANUAL FOR FINISH LEVEL REQUIREMENTS FOR GYPSUM BOARD SURFACES UNLESS OTHERWISE INDICATED.

P. TYPICAL CLASSROOM WALL PAINT: ALL WALLS P1 EXCEPT FOR ONE ACCENT WALL P4. REFER TO PLANS FOR LOCATIONS OF PAINTED ACCENTS WALLS.

FINISH PLAN LEGEND:

P1	WALL FINISH
C1	FLOOR FINISH
B1	BASE FINISH
--	MISC FINISH INFORMATION

FLOOR TRANSITION AS REQUIRED

INDICATES DIRECTION OF MATERIAL GRAIN

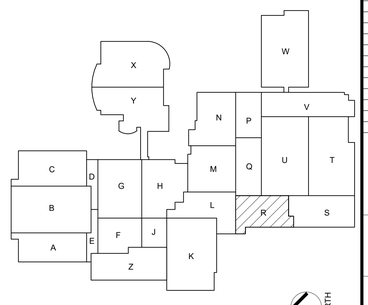
INDICATES BULKHEADS OR OTHER OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

FINISH PLAN NOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

AD-01

1 NO NEW FINISHES THIS ROOM, EXCLUDING DOOR FRAMES CONNECTED TO OTHER ROOMS THAT RECEIVE FINISHES.
2 CARPET C2. PROVIDE ONE PIECE OF BROADLOOM CARPET FROM BOTTOM OF STEP RISER TO BACK WALL AND SIDE TO SIDE., NO SEAMS ARE ACCEPTABLE ON PLATFORM AND RISER. REFER TO DETAIL ON SHEET A819.
3 PAINT WALL ABOVE WALL TILE, W4.
4 AT EXISTING WALL TILE WHERE TWO HORIZONTAL ROWS OF GREEN ACCENT TILE EXIST, APPLY WT1 TILE WITH SCHLUTER TRIM , TRIM1, ON TOP, BOTTOM AND EXTERIOR CORNERS. REFER TO DETAIL 3/A823
5 NEW TOILET PARTITIONS, TP1. REPLACE ONE FOR ONE.
6 PAINT DOOR FRAME INSIDE AND OUT, P6.
7 PAINT WALL, P4
8 PAINT VERTICAL FACE OF BULKHEAD, P4. UNDERSIDE OF BULKHEAD, P10.
9 PAINT VERTICAL FACE AND UNDERSIDE OF BULKHEAD, P1
10 PAINT VERTICAL FACE OF BULKHEAD, P1. UNDERSIDE OF BULKHEAD PAINT, P10
11 PAINT NON TILED WALLS, W1 UNLESS NOTED OTHERWISE.
12 EXISTING COUNTER AND FILE CABINETS REMAIN. INSTALL NEW CARPET AROUND FILE CABINETS. WALL BASE APPLIED TO WALL ONLY.
13 DO NOT PAINT EXISTING WALL TILE THIS ROOM.
14 PAINT WINDOW FRAME THIS SIDE ONLY, P6.
15 REINSTALL EXISTING WALL CARPET; REFER TO DEMOLITION PLAN AND ARCHITECTURAL PLAN.



KEY PLAN

NORTH

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DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

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DRAWING
UNIT "R" FIRST FLOOR FINISH PLAN INTERIOR ELEVATION AND DETAILS

PROJECT
MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

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A-819

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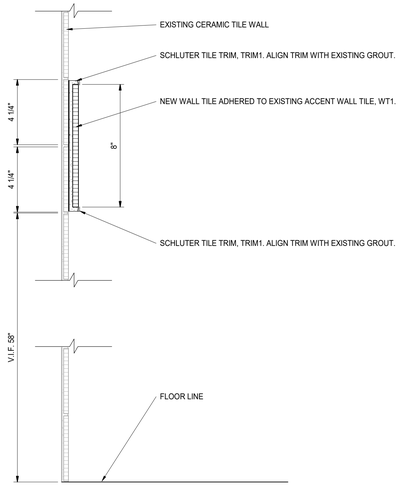
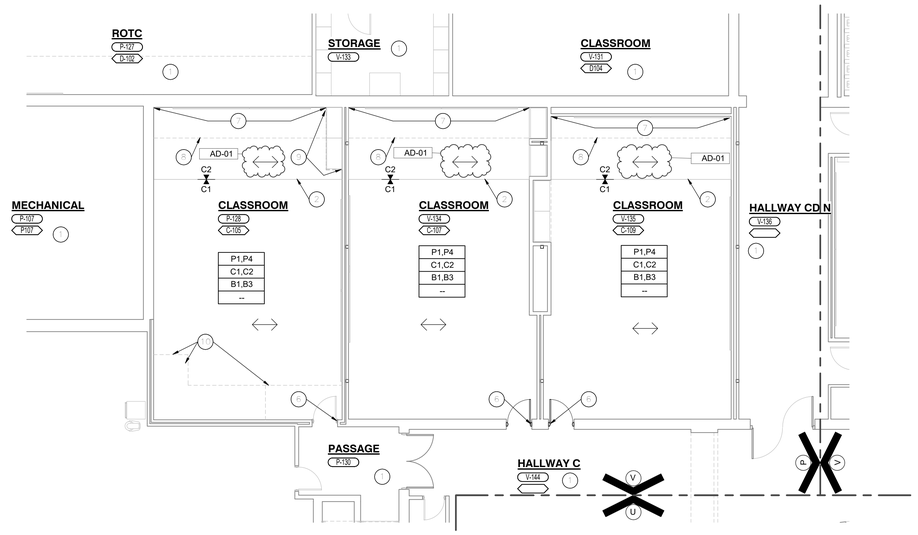


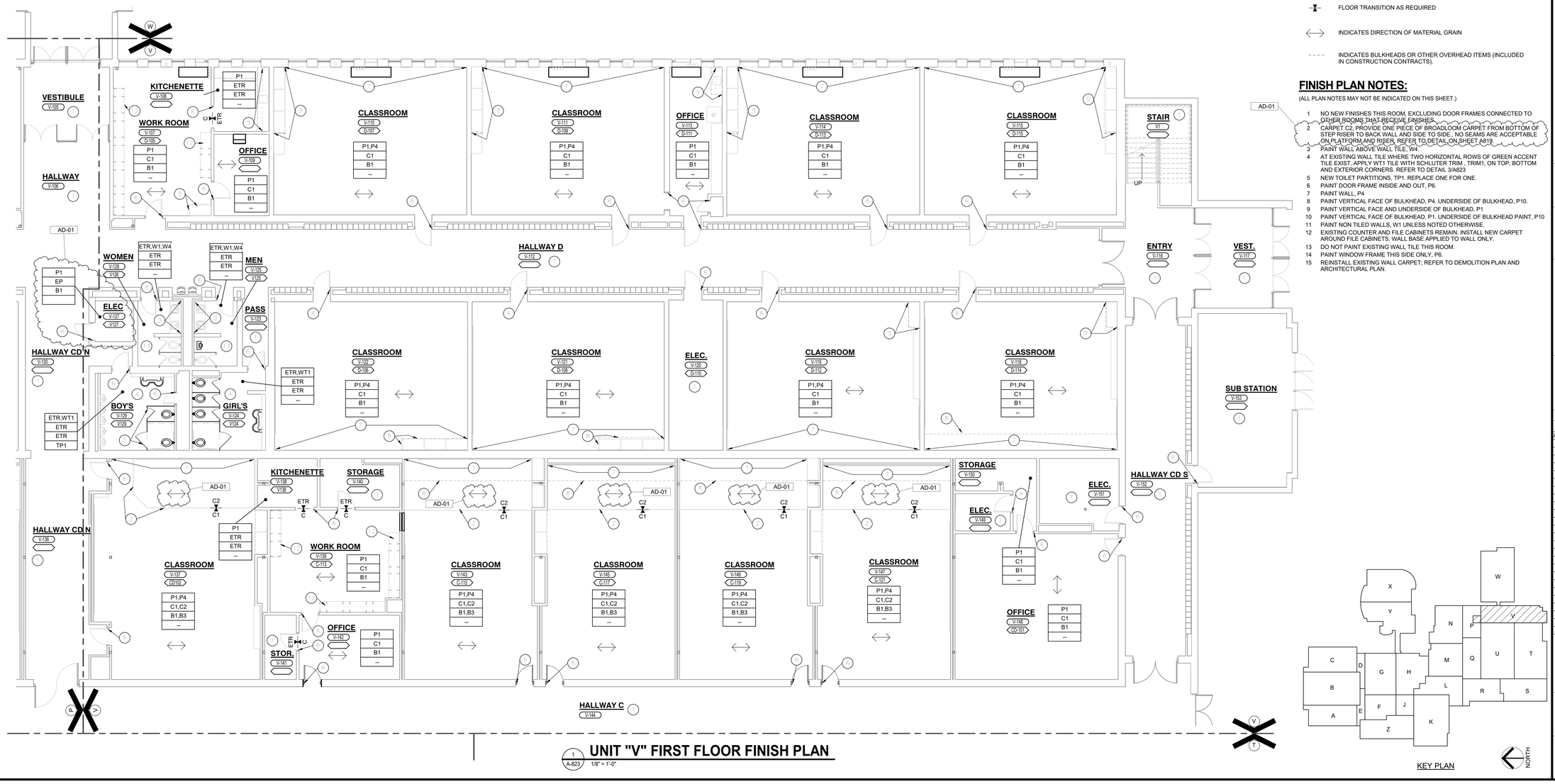
3 A-823 CERAMIC WALL TILE RESTROOM DETAIL

3" = 1'-0"



2 A-823 PARTIAL UNIT "P" FIRST FLOOR FINISH PLAN

1/8" = 1'-0"



1 A-823 UNIT "V" FIRST FLOOR FINISH PLAN

1/8" = 1'-0"

KEY PLAN

NORTH

GENERAL FINISH NOTES:

A. REFERENCE FINISH LEGEND FOR FINISH INFORMATION.

B. REFERENCE EQUIPMENT PLANS, INTERIOR ELEVATIONS, REFLECTED CEILING PLANS AND WRITTEN SPECIFICATIONS FOR ADDITIONAL FINISH INFORMATION.

C. PRIOR TO INSTALLATION OF NEW FINISHES CONTRACTOR SHALL INSPECT ALL SUBSTRATES. IF A SUBSTRATE IS DEEMED UNACCEPTABLE THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO RECTIFY THE SITUATION OR CONTACT THE ARCHITECT WITH THE CONCERN. PROCEEDING WITH THE INSTALLATION OF FINISHES WILL BE CONSTRUED THAT THE INSTALLER AND /OR FINISHER HAS ACCEPTED SAID SUBSTRATE. NO CHANGE ORDER WILL BE ISSUED TO RECTIFY CONCEALED, OR UNSATISFACTORY SUBSTRATE ONCE FINISH WORK HAS PROCEEDED.

D. PREPARE ALL WALL CONSTRUCTION, NEW AND EXISTING, TO RECEIVE NEW FINISHES AS PER MANUFACTURE'S RECOMMENDED INSTALLATION METHODS AND MATERIALS FOR ALL FINISHES.

E. ALL FLOORING IS TO BE LEVELED WITHIN 1/4" IN 10'-0" WITH LATEX MATERIAL. MOISTURE CONTENT IN AREA IS TO BE TESTED PRIOR TO INSTALLATION OF FLOORING MATERIAL. CONTRACTOR TO INSTALL FLOORING PER MANUFACTURER'S RECOMMENDED METHOD.

F. FLOORING CONTRACTOR TO SUBMIT A SEAMING DIAGRAM FOR FLOORING MATERIAL INCLUDING NOTATION OF MATERIAL DIRECTION.

G. ALL FLOORING TRANSITIONS SHALL COMPLY WITH ADA GUIDELINES.

H. ALL FLOOR FINISH TRANSITIONS AT DOORS SHALL BE CENTERED UNDER DOOR WHEN CLOSED UNLESS NOTED OTHERWISE.

I. ALL EXPOSED METAL SURFACES, SUCH AS GRILLES, FIRE EXTINGUISHER CABINETS, ETC. THAT ARE NOTED TO BE PAINTED, SHALL BE PAINTED WITH ALKYD TYPE PAINT. COLOR TO BE COORDINATED WITH DESIGNER UNLESS OTHERWISE NOTED.

J. CONTRACTOR TO PROVIDE AND INSTALL FLOORING TRANSITIONS AS INDICATED ON THE FINISH PLANS. WHERE NONE ARE NOTED, CONTRACTOR SHALL VERIFY REQUIRED TYPE/COLOR WITH ARCHITECT.

K. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL NEW INTERIOR WALL AND CEILING FINISHES WILL BE CLASS B MINIMUM, WITH A FLAME SPREAD RATING OF 75 MAXIMUM, AND A SMOKE DEVELOPED INDEX OF 450 MAXIMUM, PER IBC SECTION 803.

L. PAINT ALL SIDES OF NEW AND EXISTING DOOR FRAMES, WHERE INDICATED, P6.

M. EXPOSED SURFACES OF DUCTWORK TO BE PAINTED TO MATCH ADJACENT SURFACES UNLESS NOTED OTHERWISE.

N. PAINT ALL SIDES OF BULKHEADS IN ROOMS RECEIVING FINISHES P10 UNLESS NOTED OTHERWISE.

O. REFER TO PROJECT MANUAL FOR FINISH LEVEL REQUIREMENTS FOR GYPSUM BOARD SURFACES UNLESS OTHERWISE INDICATED.

P. TYPICAL CLASSROOM WALL PAINT: ALL WALLS P1 EXCEPT FOR ONE ACCENT WALL P4. REFER TO PLANS FOR LOCATIONS OF PAINTED ACCENTS WALLS.

FINISH PLAN LEGEND:

P1	WALL FINISH
C1	FLOOR FINISH
B1	BASE FINISH
--	MISC FINISH INFORMATION

FLOOR TRANSITION AS REQUIRED

INDICATES DIRECTION OF MATERIAL GRAIN

INDICATES BULKHEADS OR OTHER OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

FINISH PLAN NOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

AD-01

1 NO NEW FINISHES THIS ROOM, EXCLUDING DOOR FRAMES CONNECTED TO OTHER ROOMS THAT RECEIVE FINISHES.
2 CARPET C2, PROVIDE ONE PIECE OF BROADLOOM CARPET FROM BOTTOM OF STEP RISER TO BACK WALL AND SIDE TO SIDE., NO SEAMS ARE ACCEPTABLE ON PLATFORM AND RISER. REFER TO DETAIL ON SHEET A819
3 PAINT WALL ABOVE WALL TILE, W4.
4 AT EXISTING WALL TILE WHERE TWO HORIZONTAL ROWS OF GREEN ACCENT TILE EXIST, APPLY WT1 TILE WITH SCHLUTER TRIM , TRIM1, ON TOP, BOTTOM AND EXTERIOR CORNERS. REFER TO DETAIL 3/A823
5 NEW TOILET PARTITIONS, TP1. REPLACE ONE FOR ONE.
6 PAINT DOOR FRAME INSIDE AND OUT, P6.
7 PAINT WALL, P4
8 PAINT VERTICAL FACE OF BULKHEAD, P4, UNDERSIDE OF BULKHEAD, P10.
9 PAINT VERTICAL FACE AND UNDERSIDE OF BULKHEAD, P1
10 PAINT VERTICAL FACE OF BULKHEAD, P1. UNDERSIDE OF BULKHEAD PAINT, P10
11 PAINT NON TILED WALLS, W1 UNLESS NOTED OTHERWISE.
12 EXISTING COUNTER AND FILE CABINETS REMAIN. INSTALL NEW CARPET AROUND FILE CABINETS. WALL BASE APPLIED TO WALL ONLY.
13 DO NOT PAINT EXISTING WALL TILE THIS ROOM.
14 PAINT WINDOW FRAME THIS SIDE ONLY, P6.
15 REINSTALL EXISTING WALL CARPET; REFER TO DEMOLITION PLAN AND ARCHITECTURAL PLAN.

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ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT:

MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
MERRILLVILLE, IN, 46410

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PROJECT
25-180
DATE
04/07/26
COORDINATED BY
ELM
DRAWN BY
CLN
CHECKED BY
NAS

JOSEPH P. BRIGGS REGISTERED ND. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-01	04-30-26	ADDENDUM 01

DRAWING
UNIT "V" FIRST FLOOR FINISH PLAN AND PARTIAL UNIT P FINISH PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

SHEET
V
A-823

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FINISH LEGEND

SURFACE	MARK	DESCRIPTION	MANUFACTURER	PATTERN/FINISH	NUMBER/COLOR	SIZE	COMMENTS
CEILING MATERIALS							
	ACT1	ACOUSTICAL CEILING TILE	ARMSTRONG		1728 FINE FISSURED WHITE	2'-0" X 2'-0"	WITH HUMGUARD PLUS PERFORMANCE
	P10	PAINT	SHERWIN WILLIAMS	--	SW 7007 CEILING BRIGHT WHITE	--	--
WALL BASE & STAIRS							
	B1	VINYL WALL BASE	TARKETT		48 GREY	4" COVE	
AD-01	B2	VINYL WALL BASE	TARKETT			4" COVE	MATCH EXISTING
	B3	NOT USED					
	STR	NOT USED					
FLOOR MATERIALS							
AD-01	C1	CARPET TILE	INTERFACE	AERIAL FLYING COLORS AE315	105815 SMOKE - IRIS	25CM X 1M	INSTALL METHOD: MATCH EXISTING SECOND FLOOR
	C2	CARPET TILE	MOHAWK	MATTE FINISH	SELECTED FROM STANDARD COLORS	12' WIDE	BROADLOOM WITH UNIBOND PLUS BACKING
	EP	EPOXY PAINTED FLOOR	SHERWIN WILLIAMS		64 STEEL GRAY		
WALL MATERIALS							
	P1	PAINT	SHERWIN WILLIAMS		SW7016 MINDFUL GRAY		
	P2	NOT USED					
	P3	NOT USED					
	P4	PAINT	SHERWIN WILLIAMS		SW6818 VALIANT VIOLET		
	P5	NOT USED					
	P6	PAINT	SHERWIN WILLIAMS		SW7674 PEPPERCORN		
	W1	WALL COATING	SHERWIN WILLIAMS		SW7016 MINDFUL GRAY		
	W2	NOT USED					
	W3	NOT USED					
	W4	WALL COATING	SHERWIN WILLIAMS		SW6818 VALIANT VIOLET		
	WT1	CERAMIC WALL TILE	AMERICAN OLEAN	GLOSS	0086 DEVOTION	8" X 24"	
	WT2	PORCELAIN WALL TILE	AMERICAN OLEAN	MATTE	A25 ICE WHITE	1" X 2"	INSTALL STRAIGHT JOINT
MISCELLANEOUS							
	TP1	TOILET PARTITIONS	SCRANTON PRODUCTS	ORANGE PEEL	CHARCOAL GREY		
	TRIM1	TILE TRIM	SCHLUTER	JOLLY	CLEAR ALUMINUM		
	WD	WOOD DOORS			STAIN TO MATCH EXISTING		MATCH EXISTING

ETR = EXISTING TO REMAIN

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25-180
DATE
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COORDINATED BY
ELM
DRAWN BY
CLN
CHECKED BY
NAS

JOSEPH P. BRIGGS
REGISTERED
NO
11600109
STATE OF
INDIANA
ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-01	04-30-26	ADDENDUM 01

DRAWING
FINISH LEGEND

PROJECT
MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

SHEET
A-825

ABBREVIATIONS LIST

A	AMPS
AC	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BRKR	BREAKER
C	CONDUIT
CH	CABINET HEATER
CKT	CIRCUIT
DISTR	DISTRIBUTION
EF	EXHAUST FAN
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ER	EXISTING DEVICE TO BE REMOVED
EX	EXISTING DEVICE TO REMAIN
F	FUSE
F&I	FURNISH AND INSTALL
FS	FUSIBLE SWITCH
FVNR	FULL VOLTAGE, NON-REVERSING STARTER
G	GROUND
GFI	GROUND FAULT INTERRUPTING PROTECTION
GRC	GALVANIZED RIGID CONDUIT
HP	HORSEPOWER
J	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATTS
LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT
MECH	MECHANICAL
MTD	MOUNTED
NE	NEW LOCATION OF EXISTING RELOCATED DEVICE
NIC	NOT IN CONTRACT
NL	NIGHTLIGHT
NTS	NOT TO SCALE
O/C	ON CENTER
P	POLE
PNL	PANEL
PH	PHASE
RR	REMOVE AND RELOCATE EXISTING DEVICE
SW	SWITCH
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VIF	VERIFY IN FIELD
W	WATTS
WP	WEATHERPROOF TYPE DEVICE
WG	WIRE GUARD

SYMBOL LIST

EQUIPMENT AND WIRING

- JUNCTION BOX - SIZE AND TYPE AS REQUIRED.
- FLEX CONDUIT CONNECTION
- ELECTRIC MOTOR CONNECTION - PROVIDE LOCAL DISCONNECT SWITCH PER NATIONAL ELECTRIC CODE - CONNECT MISCELLANEOUS ACCESSORIES SUCH AS BACK DRAFT DAMPERS, ETC. COMPLETE AS REQUIRED.
- ELECTRIC PANELBOARDS.
- DISCONNECT SWITCH SIZE AND TYPE AS REQUIRED - COORDINATE AMPERE RATING WITH EQUIPMENT SUPPLIER
- T — TRANSFORMER - SIZE AND TYPE AS REQUIRED
- SPD — SURGE SUPPRESSION DEVICE
- TELEPHONE TERMINAL BOARD
- T.T.B.
- CONDUIT STUB INTO ACCESSIBLE CEILING SPACE TERMINATE W/ INSULATING BUSHING
- CONDUIT CONCEALED ABOVE CEILING OR IN WALL
- CONDUIT CONCEALED IN OR BELOW FINISHED FLOOR.
- CONDUIT EXPOSED ON CEILING, WALL OR BAR JOIST - ROUTED IN NEAT MANNER
- FLEXIBLE CONDUIT - ROUTED IN NEAT MANNER WITHIN CHASE OF CASEWORK.
- LP-A1 #1 — HOMERUN TO PANEL INDICATING PANEL AND CIRCUIT BREAKER NUMBER WITHIN THE PANEL.
- INDICATES NUMBER OF CONDUCTORS IN CONDUIT (CONTRACTOR SHALL VERIFY AND INSTALL ADDITIONAL WHERE REQUIRED) CROSS HATCHED INDICATES NUMBER OF CONDUCTORS (HOT OR SWITCHED LEG, NEUTRAL, GROUND)
- ALL DEVICES INDICATED WITH SHADED BOX BASE TO BE SURFACE MOUNTED TO THE EXISTING WALL ON WIREMOLD #V2000 OR EQUAL IF SINGLE SERVICE, OR WIREMOLD #4000 IF DUAL SERVICES

COMMUNICATIONS

- SIMPLEX DATA OUTLET - WITH 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING - MOUNTED 18" A.F.F. WHEN MOUNTED ADJACENT TO AN ELECTRICAL RECEPTACLE OR AS NOTED. PROVIDE CAT-6 PLENUM CABLE, FROM EACH JACK, TO NEAREST IDF OR MDF LOCATION INDICATED ON PLANS. TERMINATE WITH RJ-45 JACK. TEST AND LEAVE 10' SLACK LENGTH.

LIGHTING

- EMERGENCY BATTERY LIGHT MOUNTED 7'-6" AF (OR AS NOTED)
- REMOTE EMERGENCY BATTERY LIGHT MOUNTED 7'-6" AF (OR AS NOTED)
- FIXTURE ON EMERGENCY CIRCUIT (EM/NL) WITH 90 MINUTE, FULL LUMEN OUTPUT BATTERY UNIT OR INVERTER. BODINE #B30 (FLUORESCENT), BODINE FACTORY INSTALLED DRIVER (LED) OR MYERS #LV SERIES INVERTER (FLUORESCENT OR LED). REMOTE MOUNT IN ACCESSIBLE CEILINGS WHERE INTERNAL INSTALLATION IS NOT POSSIBLE (PROVIDE TEST SWITCH & ALL NECESSARY APPURTENANCES).

SWITCHING

- $ — FURNISH AND INSTALL TWO BUTTON ON/OFF SWITCH MTD 42" AFF: SENSORSWITCH #SPODM OR APPROVED EQUAL BY COOPER OR HUBBELL CONTROLS. PROVIDE WITH POWER PACK AS REQUIRED FOR CONTROL OF FIXTURES.
- WALL MOUNTED 0-10V DIMMER SWITCH MTD 42" AFF: SENSORSWITCH, COOPER OR HUBBELL CONTROLS. VERIFY SUITABILITY OF DIMMER WITH FIXTURE MANUFACTURER PRIOR TO ORDERING.
- MS — FURNISH AND INSTALL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH POWER PACK. MANUFACTURERS: SENSORSWITCH #CM-PDT-10-MP-20 (WITH MICROPHONICS) OR APPROVED EQUAL BY COOPER OR HUBBELL CONTROLS. SENSOR SHALL BE PROGRAMMED FOR MANUAL ON UNLESS OTHERWISE NOTED.

FIRE ALARM

NOTE:
- FIRE ALARM DEVICES, MOUNTING HEIGHT, ETC. SHALL COMPLY WITH 'ADA' STANDARDS.

- FACP — FIRE ALARM CONTROL PANEL
- FIRE ALARM PULL STATION MTD 42"AFF.
- FIRE ALARM AUDIO/VISUAL DEVICE MTD. 80" A.F. OR 6" BELOW FINISHED CEILING WHICHEVER IS LOWER. - 110 CANDELA
- FIRE ALARM STROBE ONLY MTD 80" AFF. - 15 CANDELA
- FIRE ALARM STROBE ONLY MTD 80" AFF. - 75 CANDELA

SHEET SYMBOLS

- X / X — HEXAGON TAG REFERENCE TO EQUIPMENT CONNECTION SCHEDULE
- 1 — ELLIPSE TAG REFERENCE TO SHEET NOTES
- TWO DEVICE MOUNTED UNDER COMMON COVER. WHERE LOW VOLTAGE DEVICES ARE MOUNTED UNDER COMMON COVER, COMBINE CONDUIT STUBS MAINTAINING THE EQUIVALENT FREE AREA FOR THE LOW VOLTAGE CABLING.
- RN — REMOVE EXISTING DEVICE AND PROVIDE NEW AS INDICATED IN EXISTING BACK BOX, JUNCTION BOX, ETC. VERIFY EXACT LOCATION AND CONDITIONS IN FIELD. MODIFY EXISTING BACK BOX, JUNCTION BOX, ETC. PROVIDE TRIM PLATES, EXTENSION RINGS, ETC. AS REQUIRED TO MOUNT NEW DEVICE AS INDICATED.
- NI
- F&I NEW DEVICE AS INDICATED.
- EX — EXISTING LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICE, ETC. TO REMAIN.
- ER — EXISTING LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICE, ETC. TO BE REMOVED COMPLETE IN ITS ENTIRETY. REMOVE ALL ASSOCIATED SURFACE MOUNTED CONDUIT, OUTLETS, ETC. AND BLANK-OFF FLUSH WITH NEW OR EXISTING CONSTRUCTION. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- RR — REMOVE EXISTING LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICES, ETC. AND RELOCATE TO NEW LOCATION COMPLETE AS REQUIRED.
- NE — NEW LOCATION OF EXISTING RELOCATED LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICE, ETC. EXTEND CONDUIT, WIRE, CABLE, ETC. COMPLETE AS REQUIRED TO NEW LOCATION FOR A COMPLETE AND PROPER INSTALLATION.

RECEPTACLES

- 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED 18" A.F.F. OR AS NOTED) (HUBBELL #5362 OR EQUAL).
- 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED 42" A.F.F. OR 2" ABOVE BACKSPLASH IF LOCATED ABOVE COUNTER) (HUBBELL #5362 OR EQUAL)
- 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED AT SPECIAL HEIGHT - COORDINATE IN FIELD) (HUBBELL #5362 OR EQUAL)
- 120V-20A SPECIFICATION GRADE GROUNDED DUPLEX RECEPTACLE WITH G.F.I. PROTECTION - (MOUNTED 18" A.F.F. OR AS NOTED) (HUBBELL #GF20 OR EQUAL)
- 120V-20A SPECIFICATION GRADE GROUNDED DUPLEX RECEPTACLE WITH G.F.I. PROTECTION (MOUNTED 42" A.F.F. OR 2" ABOVE BACKSPLASH IF LOCATED ABOVE COUNTER) (HUBBELL #GF20 OR EQUAL)
- IR — 120V-20A SPECIFICATION GRADE FLUSH IN FLOOR DUPLEX RECEPTACLE MOUNTED IN SHALLOW CAST IRON FLUSH MOUNTED TWO-GANG FLOOR BOX (WALKER OMNIBUS SERIES FLUSH FLOOR BOX WITH BRASS COVER PLATE OR EQUAL)
- CEILING MOUNTED PROJECTOR LOCATION WITH ONE (1) DUPLEX RECEPTACLE AND SEPARATE BACK BOX WITH LOW VOLTAGE JACKS AND COVERPLATE. SUPPORT BOXES FROM STRUCTURE WITH UNISTRUT AS REQUIRED. SEE SPECIFICATIONS AND TEACHER STATION AND PROJECTOR DETAILS FOR ADDITIONAL INFORMATION.

SECURITY

- AD-1 — CA — CARD ACCESS CONTROLLER - #HID SE RP40 MULTICLASS - PROVIDE BACK BOX MOUNTED 42" A.F.F. WITH 3/4"C, ROUTED TO THE ACCESSIBLE CEILING SPACE.
- L — ELECTRIC DOOR STRIKE - STUB 3/4" CONDUIT FROM THE ACCESSIBLE CEILING SPACE TO THE DOOR MULLION FOR WIRING. PROVIDE ALL WIRING BETWEEN THE READER, STRIKE, AND CONTROLLER AS REQUIRED BY THE MANUFACTURER.

GIBRALTAR DESIGN
ARCHITECTURE - ENGINEERING - INTERIOR DESIGN

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MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS
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PROJECT 25-180
DATE 04/07/26
COORDINATED BY RH
DRAWN BY BR
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	04/30/26	ADDENDUM NO. 1

DRAWING
ELECTRICAL NOTES, SYMBOLS & ABBREVIATIONS

PROJECT
MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

SHEET
E-001

SHEET NOTES

1. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. REMOVE ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE, COMPLETE AS REQUIRED.
2. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED AND REPLACED. REMOVE LOCAL MEANS OF DISCONNECT. DISCONNECT ALL WIRING AND CONDUIT FOR EXTENSION TO NEW EQUIPMENT.
3. REMOVE EXISTING COVER PLATE, DEVICES, AND EXPOSED WIRING AND CONDUIT. WIRING SHALL BE DISCONNECTED FROM THE PANEL. FILL EXISTING FLOOR BOX WITH CONCRETE, FINISH FLUSH WITH EXISTING FLOOR.
4. REMOVE EXISTING DEVICES ON TILE WALLS BACK TO NEAREST JUNCTION BOX AS REQUIRED FOR TILE AND STALL DEMOLITION AND NEW WORK. REINSTALL DEVICES IN THE SAME LOCATION. EXTEND CONDUIT AND WIRING, COMPLETE AS REQUIRED.
5. EXISTING MECHANICAL EQUIPMENT LOCATED ON ROOF. REFER TO SHEET EP123 FOR APPROXIMATE LOCATION.
6. COORDINATE REMOVAL AND REPLACEMENT OF EXISTING RACEWAY WITH CARPET REPLACEMENT.

DEMOLITION NOTES

A. COORDINATE PHASING OF WORK AND PROVIDE TEMPORARY POWER AND SERVICES AS REQUIRED FOR THE IMPLEMENTATION OF ALL WORK WHILE MAINTAINING SERVICES TO PORTIONS OF BUILDING TO REMAIN OCCUPIED.

B. DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICES, EQUIPMENT, LIGHTING, WIRING, ETC., AS REQUIRED TO FACILITATE DEMOLITION AND RECONSTRUCTION WORK. COORDINATE WITH GENERAL CONSTRUCTION. THE CONTRACTOR IS HEREBY ADVISED THAT THESE DRAWINGS MAY NOT INDICATE ALL EXISTING WIRING AND/OR EQUIPMENT WHICH MUST BE REMOVED, REWORKED, RELOCATED, ETC., TO ACCOMMODATE DEMOLITION AND RECONSTRUCTION WORK IN THE EXISTING BUILDING.

C. SCHEDULE ALL WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES, INCLUDING F/A AND OTHER SPECIAL SYSTEMS, ELECTRICAL POWER DISTRIBUTION, ETC. ALL REQUIRED SHUTDOWN OF EXISTING FACILITY UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL.

D. ALL EXISTING EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND OWNER SHALL DETERMINE IF CONTRACTOR IS TO STORE EQUIPMENT ON SITE AT OWNER SELECTED LOCATION OR IF CONTRACTOR IS TO ABANDON OR REMOVE EQUIPMENT FROM SITE.

E. CONTRACTOR TO FIELD VERIFY IF EXISTING ASBESTOS WILL BE ENCOUNTERED PRIOR TO STARTING ANY WORK. IF ASBESTOS IS PRESENT, THE OWNER WILL PROVIDE FOR THE REMOVAL OF ANY MATERIAL CONTAINING ASBESTOS. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS

F. ANY HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR ANY AND ALL REQUIRED CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION.

G. EXISTING INFORMATION IDENTIFIED ON THE CONTRACT DOCUMENTS IS SCHEMATIC ONLY AS AN AID TO THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY ADDRESS ALL EXISTING CONDITIONS FOR A COMPLETE AND PROPER INSTALLATION OF NEW SYSTEMS. ALL EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.

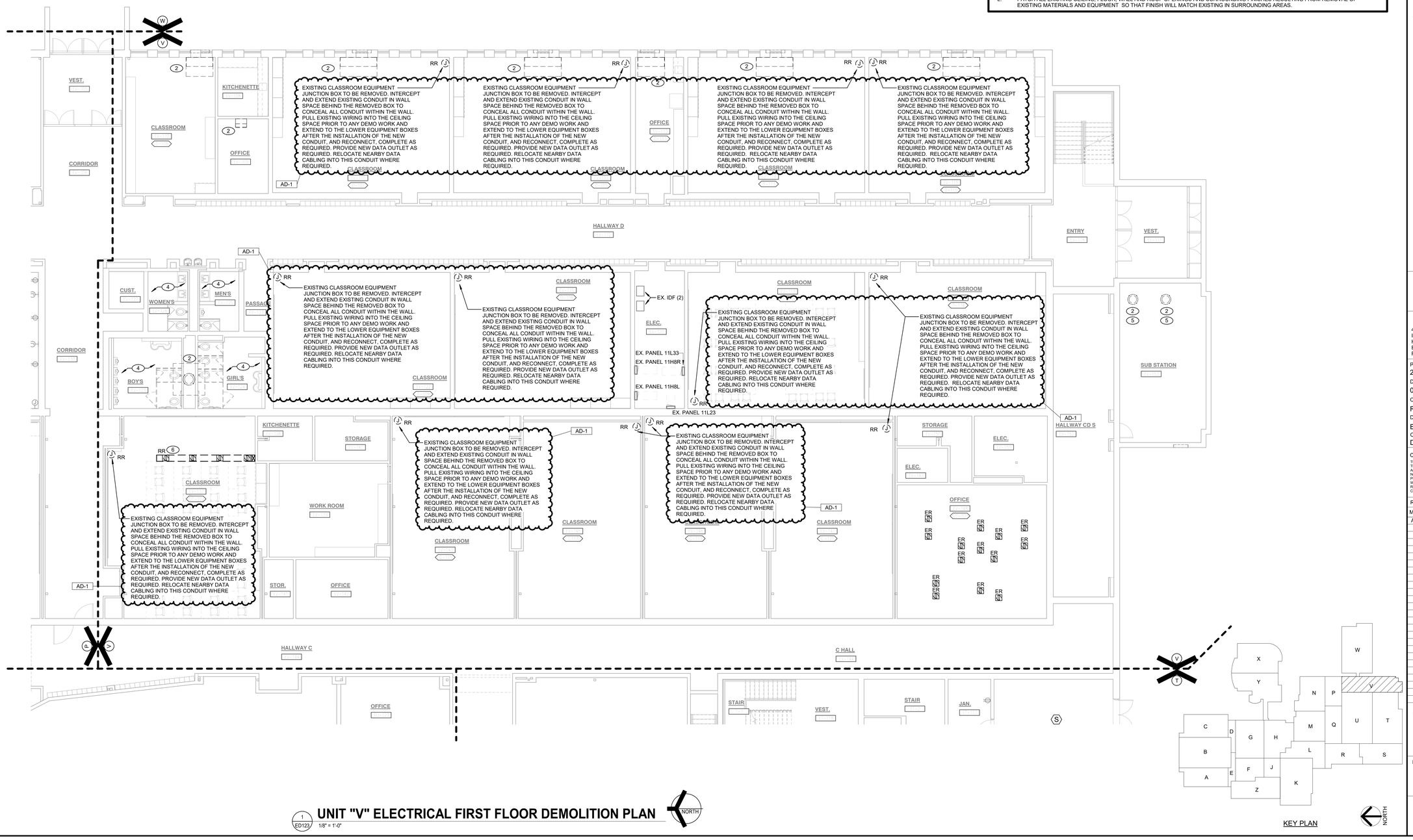
H. DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES AND ANY OTHER CEILING DEVICES AS REQUIRED FOR INSTALLATION OF WORK (ALL TRADES). REINSTALL UPON COMPLETION OF WORK. REPAIR ALL DAMAGED FIXTURES AND DEVICES.

I. VISIT SITE PRIOR TO BIDDING TO DETERMINE ALL FIELD CONDITIONS. VERIFY ALL EXISTING INTERIOR AND EXTERIOR ELECTRICAL SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE FULL EXTENT OF DEMOLITION WORK.

J. ALL EXISTING LIGHTING FIXTURES, ELECTRICAL DEVICES, CONDUIT, ETC., SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK. ALL EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND SHALL BE PROPERLY STORED ON SITE, OR DESIGNATED TO BE ABANDONED AND REMOVED FROM SITE AS DIRECTED BY OWNER.

K. EXISTING ELECTRICAL DEVICES (RECEPTACLES, SWITCHES, OUTLET BOXES, CONDUIT, ETC.) WITHIN WALLS TO BE REMOVED SHALL BE DISCONNECTED COMPLETELY. REROUTE CIRCUITRY AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL REMAINING DEVICES/EQUIPMENT. VERIFY EXACT CONDITIONS AND QUANTITIES IN FIELD.

L. PATCH ALL EXISTING CEILING, FLOOR, WALL AND ROOF OPENINGS AND SURROUNDING FINISHES RESULTING FROM REMOVAL OF EXISTING MATERIALS AND EQUIPMENT SO THAT FINISH WILL MATCH EXISTING IN SURROUNDING AREAS.



1 ED123 **UNIT "V" ELECTRICAL FIRST FLOOR DEMOLITION PLAN** 1/8" = 1'-0"

NORTH

4/30/2026 11:27:19 AM
Autodesk Docs://2510187 MCSC Merrillville HS - Group 4 & Security/MEG_Merrillville HS-Group 4 & Security_MEP-R25.rvt

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PROJECT:

MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
MERRILLVILLE, IN, 46410

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PROJECT
25-180
DATE
04/07/26
COORDINATED BY
RH
DRAWN BY
BR
CHECKED BY
DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	04/30/26	ADDENDUM NO. 1

DRAWING
UNIT "V" ELECTRICAL FIRST FLOOR DEMOLITION PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

SHEET
V
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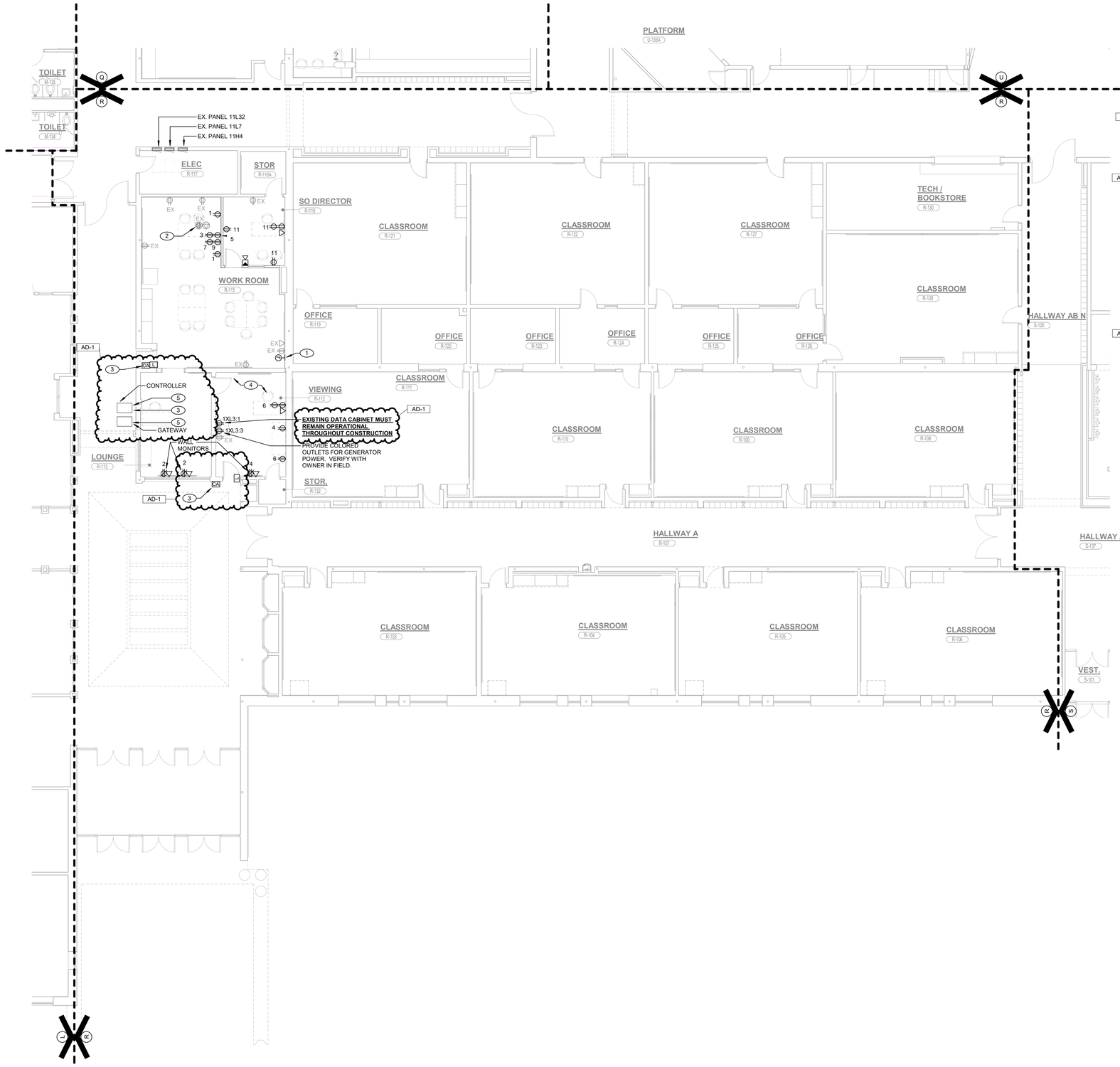
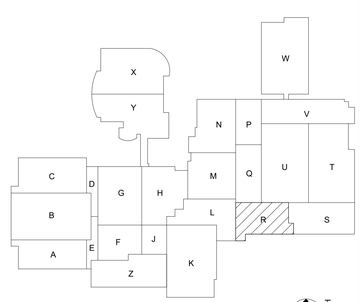


UNIT "R" ELECTRICAL POWER FIRST FLOOR PLAN

1 EP119 — 1/8" = 1'-0"

NORTH



KEY PLAN

NORTH

GENERAL NOTES

1. CIRCUIT ALL DEVICES TO PANEL 11L32 UNLESS OTHERWISE NOTED.
2. CIRCUIT NUMBERS SHOWN ARE NOT ACTUAL, BUT ARE SHOWN TO INDICATE CIRCUITING REQUIREMENTS. VERIFY ACTUAL CIRCUIT NUMBER ASSIGNMENTS IN FIELD. UTILIZE EXISTING SPARE CIRCUITS MADE AVAILABLE BY DEMOLITION OF EXISTING DEVICES AND EQUIPMENT. ADDITIONAL CIRCUITS NEEDED SHALL UTILIZE EXISTING OR NEW SPARES IN EXISTING PANEL 11L32 OR NEAREST EXISTING PANEL WITH AVAILABLE SPACE AND CAPACITY. VERIFY EXISTING CONDITIONS AND REQUIREMENTS IN FIELD.

SHEET NOTES

1. REFER TO SHEET ED119 FOR ADDITIONAL DISCONNECT AND RECONNECT INFORMATION.
2. REFER TO SHEET ED119 FOR ADDITIONAL CEILING PROJECTOR INFORMATION.
3. PROVIDE (1) MERCURY/RS2 1502 DOOR CONTROLLER AND (2) ASSOCIATED CARD READERS AND DOOR STRIKES FOR THE DOORS AS SHOWN. INTERFACE TO EXISTING DOOR CONTROLLER SYSTEM. VERIFY EXACT LOCATION IN FIELD. REFER TO ACCESS CONTROL WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
4. DOWNTIME IN THIS AREA SHALL BE COORDINATED WITH THE OWNER TO ENSURE POWER IS CONTINUOUSLY PROVIDED TO THE SERVER EQUIPMENT.
5. DEVICE TO BE INSTALLED AS PART OF ALTERNATE. REFER TO ALTERNATE NOTES AND ACCESS CONTROL WIRING DIAGRAM FOR ADDITIONAL INFORMATION.

ALTERNATE NOTES

1. ALTERNATE BID: PROVIDE SCHLAGE #GWE GATEWAY AND MERCURY #LP1502 CONTROLLER FOR WIRELESS DOOR LOCK CONTROLS. PROVIDE RS-485 WIRING TO CONNECT THE GATEWAY AND CONTROLLER. PROVIDE (2) CAT6A WIRING FOR CONNECTION BETWEEN THE CONTROLLER AND NEAREST IDF. COORDINATE EXACT LOCATIONS OF DEVICES IN FIELD WITH OWNER'S REPRESENTATIVE.
2. BASE BID: PROVIDE CARD READERS, DOOR STRIKE ROUGH-INS, DOOR CONTROLLER, AND ALL ASSOCIATED CONDUIT AND WIRING. REFER TO ACCESS CONTROL DETAIL FOR ADDITIONAL INFORAMTION.

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UNIT "R" ELECTRICAL POWER FIRST FLOOR PLAN

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MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

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EP119

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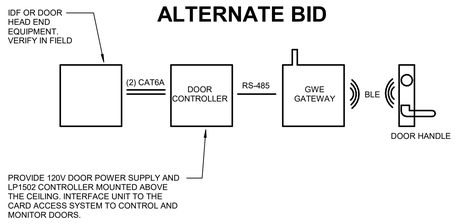
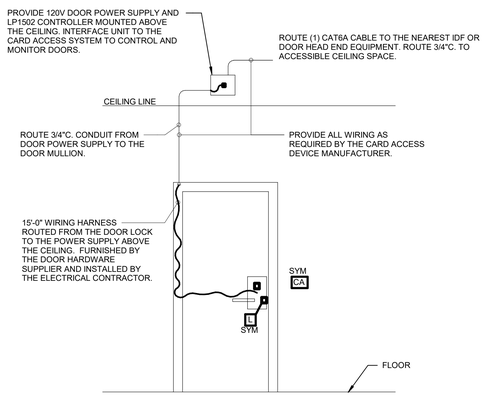
ACCESS CONTROL WIRING DIAGRAM

ALTERNATE BID



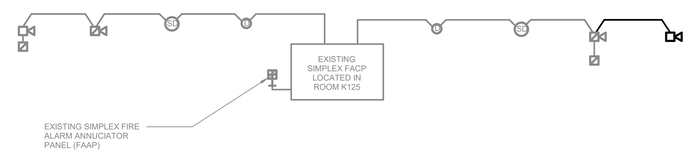
NOTES:
1. PROVIDE 12V OR 24V TRANSFORMERS AS REQUIRED.
2. VERIFY ALL DEVICE LOCATIONS IN FIELD AND PROVIDE ALL WIRING, CONDUIT, JACKS, AND TERMINATIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

BASE BID



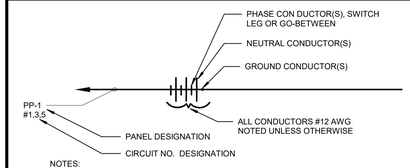
AD-1

FIRE ALARM SCHEMATIC RISER DIAGRAM



NOTES:
1. THIS DIAGRAM IS SCHEMATIC ONLY AND DOES NOT SHOW ALL FIRE ALARM DEVICES, AIR HANDLING UNITS, ROOF-TOP UNITS OR FIRE PROTECTION DEVICES - REFER TO ALL PLANS AND SPECIFICATIONS FOR QUANTITIES, LOCATION, ACCEPTABLE MANUFACTURERS, ETC.
2. PROVIDE ADDITIONAL PARTS, ACCESSORIES, CARDS, ETC. AS REQUIRED TO COMPLETE THE WORK. FIRE ALARM DEVICES SHALL BE CONNECTED TO THE FIRE ALARM POWER SUPPLY AND BATTERIES OF THE SYSTEM AND SHALL NOT BE CONNECTED TO NORMAL POWER.

KEY TO ELECTRICAL CIRCUIT WIRING



NOTES:
1. ALL WIRING SHALL BE #12 AWG, UNLESS OTHER WISE NOTED.
2. MINIMUM CONDUIT SIZE SH ALL BE ¾" EXCEPT FOR THREE (3) WIRES OR LESS, OR CONTROL WIRING WITHIN BUILDINGS, WHICH MAY BE ½" CONDUIT.
3. ½" FLEXSTEEL, GREENFIELD OR SEALITE SHALL BE THE MINIMUM SIZE INSTALLED.

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ELECTRICAL DETAILS & DIAGRAMS

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MERRILLVILLE HIGH SCHOOL SECURITY OFFICE AND GROUP 4 CLASSROOMS IMPROVEMENTS

SHEET
E-601