ADDENDUM
NO. 3

August 7, 2026

MERRILLVILLE HS CULINARY AND MEETING AREA RENOVATIONS AND MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION PROJECT

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 July 14, 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 3-1 through ADD 3-2 and attached Addendum No. 3 from Gibraltar Design dated August 6, 2026, and consisting of 5 pages, Specification Section 10 11 00 - Markerboards and Corkboards, Specification Section 28 13 00 - Access Control System, and 22 Drawings.

A. <u>SPECIFICATION SECTION 00 00 20 - TABLE OF CONTENTS</u>

1. <u>DIVISTION 10 - SPECIALTIES</u>

a. **Add**:

Specification Section 10 11 00 - Markerboards and Corkboards

2. <u>DIVISTION 28 - ELECTRONIC SAFETY AND SECURITY</u>

a. **Add**:

Specification Section 28 13 00 - Access Control System

B. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

Under 3.03 Bid Categories

1. BID CATEGORY NO. 1 - GENERAL TRADES

   a. **Add:**

   Specification Section 10 11 00 - Markerboards and Corkboards

   b. **Add:**

   Clarification No. 21:
   The **Bid Category No. 1 Contractor** shall protect all existing floors to remain throughout the duration of the project.

   Clarification No. 22:
   The **Bid Category No. 1 Contractor** shall provide the trench drain at the new loading dock concrete stairs as indicated on Detail 7/A-430.

2. BID CATEGORY NO. 4 - HARD TILE/CARPET/RESILIENT FLOORING

   a. **Add:**

   Clarification No. 3:
   The **Bid Category No. 4 Contractor** is responsible to provide all quarry tile preparation as noted on Drawings AD121, Note 43 and A821, Note 22. Existing quarry tile shall be cleaned and abraded as required by the project specifications to ensure proper adhesion of the floor leveling compound and flooring adhesives prior to new flooring installation.

3. BID CATEGORY NO. 8 - ELECTRICAL

   a. **Add:**

   Specification Section 28 13 00 - Access Control System

C. SPECIFICATION SECTION 01 23 00 - ALTERNATES

1.04 SCHEDULE OF ALTERNATES

a. **Revise**:

B. **Alternate No. 2**: State the cost to provide 2,500 linear feet of new fiber as indicated on the drawings. **Base Bid:** No additional fiber is to be provided.

ADDENDUM THREE

Addendum Three (AD.03) to the drawings and specifications prepared by Gibraltar Design for **Merrillville HS Culinary and Meeting Area Renovations and Merrillville CSC Central Office Addition and Renovation** 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 Addendum #1 and #2, and 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 under Division 10, Specification Section 10 11 00, Markerboards and Corkboards.
   B. Add under Division 28, Specification Section 28 13 00, Access Control System
2. **Specification Section 10 11 00 Markerboards and Corkboards**
   A. Add new Specification Section 10 11 00, Markerboards and Corkboards, included in this addendum.
3. **Specification Section 26 05 33.13 Conduit for Electrical Systems**
   A. Revise section 2.02 (F) 1 to the following: Maximum allowed trade size for EMT is 2" in mechanical and electrical rooms with exposed ceilings. Where conduits larger than 2" are to be installed in these areas, use galvanized steel rigid metal conduit (RMC), or galvanized steel intermediate metal conduit (IMC). All conduit installed above concealed ceiling spaces or above tile ceilings that are not in mechanical or electrical rooms may be EMT.
4. **Specification Section 27 00 00 Technology Communications**
   A. Revise section 1.02 (B) 3 to the following: Installation in accordance with technology drawings, low voltage general notes, contract documents, manufacturer's recommendations and applicable code requirements.
   B. Revise section 1.03 (3) to the following: The audio amplification systems are specified in the Low Voltage General Notes on drawing T-001.
   C. Revise section 6.00 (A) to the following: The televisions shall be furnished by the owner and installed by the contractor. The mounting brackets shall be furnished and installed by the contractor. Coordinate with the framing contractor to ensure proper mounting plates are installed as indicated in the architectural specification.
   D. Revise section 7.02 (E) to the following: Switching Matrix / IDF
   E. Add to the end of section 7.02 (E) 1 - Refer to drawing T602 for additional information on the rack equipment.
   F. Add section 7.02 (E) 4: Refer to the Low Voltage General Notes on T-001 for information on the switching matrix.

5. Specification Section 28 13 00 Access Control System

A. Add new Specification Section 28 13 00, Access Control System, included in this addendum.

DRAWINGS

MERRILLVILLE HS CULINARY AND MEETING AREA RENOVATIONS

6. Sheet AD-121

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

1. Added quarry tile and limited wall demolition notes for the alternate bid quarry tile flooring replacement.
2. Added note 1 to Vending ET-104A
3. Revised note 26
4. Added note 45 to door at Storage ET-127
5. Added note 46 to Serving ET-138

7. Sheet A-121

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

1. Added C8 walls for the alternate bid quarry tile flooring replacement in storage room T-148.
2. Added notes 25 and 26 in Lab 3 T-149.

8. Sheet A-130

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

1. At detail 1, add note "PATCH GYPSUM BOARD BEHIND DEMOLISHED VERTICAL UNIT VENTILATOR."
2. Noted typical details markings at various details.

9. Sheet A-221

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

1. Added notes and a curb and portal.

10. Sheet A-601

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

B. Door T-112 is new wood slab in existing frame. Hardware as specified, with reuse of existing hinges.

11. Sheet MP121

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

1. Added AC-1 to tech room T-112

12. Sheet M-201

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

1. Added CU-1 to roof plan.

13. Sheet M-501

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

1. Added Cu-1 and Note 9 to Mechanical Equipment Schedule

14. Sheet E-001

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

1. Updated symbol list devices.

15. Sheet EL-121

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

1. Revised multiple sheet notes
2. Removed divider sensors
3. Added local switching to meeting room 1
4. Relocated several switches

16. Sheet EP-121

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

1. Added General Note #4.
2. Added a reel cord.
3. Revised reel cord layout.
4. Added mechanical equipment AC-1.
5. Added Sheet Note #8.
6. Added conduit drop for sheet note 8.
7. Updated Tech Room layout.
8. Relocated touch screen controller.

17. Sheet EP-201

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

1. Added mechanical equipment CU-1, RT-1, and GEF-9 and all associated connections.
2. Added Sheet Note #2.

18. Sheet E-501

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

1. Revised mechanical equipment connection schedule

19. Sheet E-502

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

1. Revised panel schedule for CL-2.

20. Sheet E-602

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

1. Added Detail Note #2
2. Updated one line information and connections.
3. Added misc. manufacturer information.

21. Sheet E-603

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

1. Revised electric cord reel detail

22. Sheet T-001

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

1. Updated symbol list
2. Updated low voltage general notes
3. Added Switching Wiring Diagram

23. Sheet T-121

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

1. Added General Note #1 & 2
2. Removed corridor clock from Culinary Lab #1

24. Sheet T-601

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

1. Updated station details

25. Sheet T-602

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

1. Added IDF Rack Layout Detail.
2. Updated access control wiring diagram.

DRAWINGS

MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

26. Sheet AD101

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

1. Revised plan note 19.

27. Sheet A-310

A. Remove word “ALTERNATE” from text note “ALTERNATE: PAINT METAL CANOPY FASCIA. REPAIR OR REPLACE PANELS WITH DENTS” on 4/A-310.

28. Sheet A-901

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

Pages 1 through 5, inclusive, Specification Section 10 11 00, Specification Section 28 13 00, and twenty two (22) Full-Size Drawings, constitute the total makeup of **Addendum Three**.

GIBRALTAR DESIGN

Joseph P. Briggs

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SECTION 10 11 00
MARKERBOARDS AND CORKBOARDS

1 General

1.1 Section Includes

A. Porcelain surfaced markerboards.

B. Porcelain surfaced markerboard/projection boards.

C. Corkboards.

D. Trim, tray, and accessories.

1.2 References

A. ANSI A208.1 - Mat Formed Wood Particle Board.

B. APA - American Plywood Association.

C. FS LLL-B-810 - Building Board, (Hardboard) Hard Pressed, Vegetable Fiber.

1.3 Regulatory Requirements

A. Conform to applicable code for flame/fuel/smoke rating for vinyl fabric covered corkboards in accordance with ASTM E84.

B. Fire-Test-Response Characteristics: Provide fabrics with the surface burning characteristics indicated, as determined by testing identical products per ASTM E 84 by UL or other testing and inspecting agency acceptable to authorities having jurisdiction. Identify materials with the appropriate markings of applicable testing and inspecting agency.

1. Flame Spread: 25 or less.
2. Smoke Development: 10 or less.

1.4 Submittals

A. Submit shop drawings and product data under provisions of Division 1.

1. Indicate on shop drawings, wall elevations, dimensions, joint locations, trim, accessories, and anchor details.

1.5 Maintenance Data

A. Submit maintenance data under provisions of Division 1.

1.6 Delivery

A. Deliver factory assembled markerboard, corkboard, and trim to project site four (4) months prior to projected completion date.

1. Violation of the above requirement will result in cancellation of the markerboard order and the supplying of another markerboard at no extra cost to the Owner.

1.7 Warranty

A. Warranty: Include coverage of markerboard surface from discoloration due to cleaning, crazing, cracking, and staining for fifty (50) years after date of original installation.

2 Products

2.1 Markerboards And Corkboards - Acceptable Manufacturers

A. Marsh by Polyvision, New Philadelphia, Ohio; 4600 Series.

1. Pro-Rite Markerboard.

B. Nelson Adams, San Bernardino, California.

C. Claridge Products, Inc. Harrison, Arizona.

D. Platinum Visual Solutions, Corona, California.

2.2 Marker/Projection Boards - Acceptable Manufacturers

A. Basis of Design: Claridge Products and Equipment, Inc., Harrison, Arkansas.

1. Aspire Projection Boards.

2. Or Approved Equal.

2.3 Materials

A. Sheet Steel: Special quality, enameling steel, low metaloid and copper content, 24 gauge; or Vitracite, 24 gauge.

B. Aluminum Extrusions: Snap-on type.

C. Composition Cork: Formulation of cork granules, oils, and pigments, impregnated with plastic; burlap backed; Class B; color as selected.

D. Plywood: APA Structural I, Grade C-D, fir species.

E. Hardboard: FS LLL-B-810; tempered, smooth face, both sides.

F. Particle Board: ANSI A208.1; wood chips or shavings set with waterproof resin binder, sanded faces.

G. Vinyl Fabric: FS CCC-W-408, Type II burlap weave; weighing not less than 13 oz./sq. yd.; with flame-spread index of 25 or less per ASTM E 84.

1. Refer to Finish Legend.

H. Aluminum Backing: Aluminum sheet, minimum 0.015 inch thick.

I. Adhesives: Type recommended by manufacturer.

2.4 Finishes

A. Porcelain Enamel: Glass fibered enamel, baked to vitreous surfaces; reflectance factor of more than 15 percent and less than 20 percent as recommended by the American Illuminating Engineering Society and the American Institute of Architects in the report, American Standard Practice for Schools; color as selected from manufacturer's available range.

1. Base Coat: Minimum 0.0025 inch nickel cobalt ground coat, front and back.

2. Finish Coat: Minimum 0.003 inch porcelain enamel writing coat, front, and all edges at joints.

B. Composition Cork Surface: Vinyl impregnated cork of color as selected from manufacturer's full available range.

C. Aluminum Frame and Accessories: Anodized to clear finish.

2.5 Accessories

A. Map Supports: Formed aluminum hooks and roller brackets, sliding type to fit map rail. Provide four hooks and two roller brackets on each markerboard.

B. Flag Holders: Cast aluminum bored to receive flag staff, bracketed to fit top rail of markerboard.

1. Provide one flag holder for each classroom.

C. Starter Kits: Accessory starter kit for each markerboard consisting of the following:

1. Cleaning, maintenance, and how-to-use handbook.

2. Minimum twelve dry marker pens in four colors and eraser.

2.6 Fabrication - Markerboards

A. Outer Face Sheet: Steel, 24 gage.

B. Core: Plywood; 1/4 inch thick.

1. Contractor's Option: Particle board, 3/8 inch thick.

C. Backing Surface: Aluminum sheet, 0.015 inch thick.

D. Splice Joint: Concealed spline of sheet steel.

E. Provide balanced high-pressure, factory-laminated markerboard assemblies of 3-ply construction consisting of face sheet, core, and backing. Factory apply frames and trim to markerboards.

2.7 Fabrication - Corkboards

A. Outer Facing: Composition cork, 1/4 inch thick, reinforced with burlap backing.

B. Backing: Hardboard, 1/4 inch thick.

C. Provide balanced high-pressure, factory-laminated corkboard assemblies of 2-ply construction consisting of facing and backing. Factory apply frames and trim to corkboards.

2.8 Frame And Trim

A. Frame: Extruded aluminum, snap-on type; map rail with cork insert over markerboard surfaces.

B. Chalk Tray: Extruded aluminum, of snap-on profile; one piece, full length of markerboard; closed aluminum end closures; concealed fasteners.

1. Lap edges of marker or cork minimum 1/4 inch.

C. Concealed Fasteners: Provide continuous aluminum grounds with integral continuous aluminum clips, one piece configuration.

3 Execution

3.1 Inspection

A. Verify that surfaces and internal wall blocking are ready to receive work.

B. Beginning of installation means acceptance of substrate construction.

C. Provide porcelain thickness meter to Construction Manager for measuring thickness of porcelain.

3.2 Installation

A. Install in accordance with manufacturer's instructions.

B. Install continuous grounds with integral continuous clips with toggle bolts or approved fasteners.

C. Verify all dimensions and locations of items prior to installation.

D. Verify mounting height.

E. Secure units level and plumb.

F. Butt markerboard panels tight with concealed spline to hairline joint.

G. Provide all framed corkboards throughout the project.

3.3 Cleaning

A. Clean surfaces in accordance with manufacturer's instructions.

B. Cover markerboard and corkboard surfaces with protective cover, taped to frame.

C. Remove protective cover at Date of Substantial Completion.

END OF SECTION

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY
Section 28 13 00 – Access Control System

1.00 PART 1 - GENERAL

1.01 SCOPE:

A. The General Provisions of the Contract, including Conditions of the Contract and Division 1 of the Contract Documents apply to the work in this section.

B. Section 26 00 00 – Electrical Work General Provisions shall apply to the work specified in this section.

C. Interface electronic systems furnished under Division 28 and Facility Management System such that systems are time synchronized.

1.02 SCOPE OF WORK:

A. The work described by this section includes the furnishing of material, equipment, labor, service, and the performing of operations necessary for the installation of the Access Control System, complete and in operating condition as indicated on the contract documents and/or described herein.

B. Equipment and miscellaneous parts must be provided for complete and operating systems, whether specifically mentioned or not.

C. Furnish and install new card readers at door openings as indicated on the contract documents, including reader mounting hardware, back boxes, and reader cabling.

D. Furnish and install new intelligent controllers and reader interface panels, including enclosures, regulated/filtered power supplies, backup batteries, tamper monitoring, and terminations to the access control network.

E. Integrate all new readers and controllers into the Owner's existing RS2 access control system. Coordinate with the Owner's IT department for network addressing, VLAN assignment, and connection to the existing head-end server and database. Where no existing head-end is available, furnish and license new Access It! software and server as indicated.

F. Program and configure all controllers, reader interface modules, and readers, including door schedules, access levels, credential/card formats, OSDP Secure Channel encryption, and time synchronization.

G. Coordinate with Division 08 door hardware for electrified locking hardware (electric strikes and/or electromagnetic locks), request-to-exit (REX) devices, and door position switches (DPS) at each controlled opening. Provide monitoring and control wiring to each device.

H. Field-verify existing conditions, existing controller capacity, and available spare reader ports prior to rough-in. Notify the Engineer in writing of any deficiency in the existing infrastructure that affects this scope.

1.03 STANDARDS:

A. The above equipment shall be installed in the conduit systems as indicated on the contract documents and hereinafter specified. The manufacturer's distributor shall guarantee the entire system for two (2) years against defects in material and workmanship.

1.04 FIELD QUALITY CONTROL:

A. The manufacturer's authorized representative shall perform a quality inspection of final installation of all systems herein specified and, in presence of contractor and Owner's Representative, perform a functional test of each system.

B. A written system certification verifying proper system operation shall be required prior to acceptance.

C. Contractor shall show satisfactory evidence of maintaining a service organization capable of furnishing adequate inspection and service to equipment and be prepared to offer service contract for maintenance of system after guarantee period.

1.05 REGULATORY REQUIREMENTS:

A. Equipment and systems provided shall adhere to the standards, codes, regulations, and requirements of the following:

B. National Electrical Code

C. Underwriters Laboratories, Inc.

D. Federal Communications Commission

1.06 SUBSTITUTION OF MATERIALS:

A. Manufacturer model numbers listed in this section indicate the minimum level of performance and quality required.

B. Requests for acceptance of alternate equipment may not be submitted. No alternate systems will be accepted.

C. Should model numbers be obsolete or superseded, the newest equipment model must be furnished.

1.07 SUBMITTALS:

A. Furnish complete shop drawings on the various components of the Access Control System. These submittals shall include but not be limited to the following:

B. Complete scaled contract documents of equipment racks, proximity readers and special assemblies. Each drawing shall show equipment with its manufacturer and model number.

C. Complete one-line contract documents indicating interconnection of equipment. Each drawing shall show circuit numbers for cables and terminal connections.

D. Complete installation contract documents detailing locations of equipment.

E. Each drawing shall have a descriptive title, and subparts of each drawing shall be completely described. Shop drawings shall have the name of the project and electronics contractor in the title block.

F. Shop drawings shall be produced in AutoCad software.

G. Prior to final acceptance, submit three complete copies of an operating and maintenance manual for the systems. Each manual shall contain the following minimum information:

1. Instruction necessary for the proper operation and maintenance of the system.

2. Complete contract documents of the system showing cable numbers, performance levels and construction details of racks and consoles.

3. System backup, in printed and USB formats.

1.08 WARRANTY:

A. Warrant the system to be free from defects under normal operating conditions for a period of two (2) years from date of Substantial Completion. Contractor to correct deficiencies at their own expense as directed.

2.00 PART 2 - PRODUCTS:

2.01 SYSTEM OPERATION AND FUNCTIONAL REQUIREMENTS:

A. Access Control system shall be provided. The system shall be capable of providing restricted access, recording activity, and archiving. System shall be capable of being operated as described herein.

2.02 EQUIPMENT:

A. Multi-Class Reader

1. Signo 20 (mullion) or Signo 40 (single-gang) multi-technology, OSDP-capable, mobile-credential-ready card reader. Provide model appropriate to the mounting location.

B. Door Strike

1. Door strike provided by door hardware supplier. Access control contractor to coordinate with door hardware supplier.

2. Access control contractor to provide power supply for door strike and release mechanism. Extend power from nearest emergency power panel.

3. Where wireless/battery door strikes are provided, provide wireless hub (gateway) to interface the door controls to the access control system.

C. Headend / Recording / Control Equipment

1. RS2 Access It! access control software, current release. Match the Owner's existing head-end software edition and version where an existing system is being extended.

2. RS2 / HID Mercury LP-Series Intelligent Controller – LP1502 for two-door applications, LP4502 for larger door counts – with current firmware. Legacy SCP/EP-series controllers are not acceptable for new work.

3. RS2 / HID Mercury MR52-S3 (Series 3) two-door / dual-reader interface module; provide MR62E or additional MR-series I/O modules as required to suit the input/output count shown.

D. Wire and cable

1. Wire and cable to be plenum rated type.

2. Belden 3 pair, individually shielded, 22AWG: Part # 87777

3. Belden 2 conductor, 18 AWG, shielded: Part # 6300FE

4. OSDP / RS-485 reader communication cable: shielded twisted pair, 22 AWG minimum (e.g., Belden 3107A).

3.00 PART 3 - EXECUTION:

3.01 GENERAL:

A. Items or equipment necessary to fulfill the contract documents and requirements for a fully operational system, even if not specifically mentioned herein, are to be provided without additional claim for payment.

B. Provide power and battery supply in TECH T-112. This shall be connected to a receptacle or junction box that is fed from a generator panel.

C. Label and identify controls, devices, jacks, and components with permanent labels.

D. Properly ground equipment per NEC and AES requirements.

E. No splices in control / power wiring are permitted except in equipment cabinets or junction boxes.

F. Control and power wires shall be installed in individual conduit, where necessary.

G. Equipment shall be installed neatly, plumb, and square.

H. Label or otherwise mark wiring at each end corresponding to destination and function.

I. Provide adequate ventilation and vent panels for proper cooling of equipment.

J. Unused rack spaces shall be filled with blank panels as required.

K. AC wiring within equipment cabinets or racks shall be installed to NEC guidelines.

L. Mounting heights of equipment shall be approved.

M. Control system shall be interfaced with FACP.

N. Program, configure, and functionally test all controllers, reader interface modules, and readers. Enroll test credentials and verify each opening for proper access grant/deny, OSDP Secure Channel communication, and door-forced / door-held-open monitoring and reporting to the head-end.

3.02 TRAINING:

A. Provide three (3) Operation and Maintenance manuals for approval at 75% completion. Upon approval, one (1) O&M manual to be submitted to Owner at time of training.

B. Provide four (2) hours of administrator training, to be videotaped by contractor. Upon completion of training, contractor shall provide two (2) copies of videotaped sessions.

3.03 TESTING AND ADJUSTING:

A. Initial tests and adjustments shall be done by the Contractor and costs for same shall be included as part of the bid. The scope of work included under the above requirement is as follows:

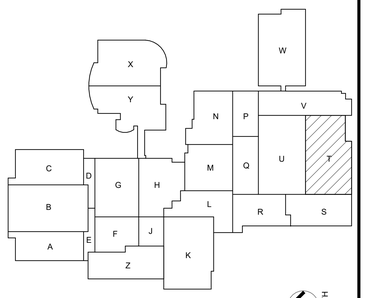
B. Perform the tests and adjustments necessary to assure the satisfactory quality and level of access control and recording activity of the system under normal operating conditions.

C. Establish and record the control settings throughout the system for desired operation. Provide hard copy of settings with record documents. Provide in printed form and on diskette.

3.04 ADJUSTMENT AND CLEANING:

A. Clean system equipment and cabinets of dirt and debris.

END OF SECTION 28 13 00



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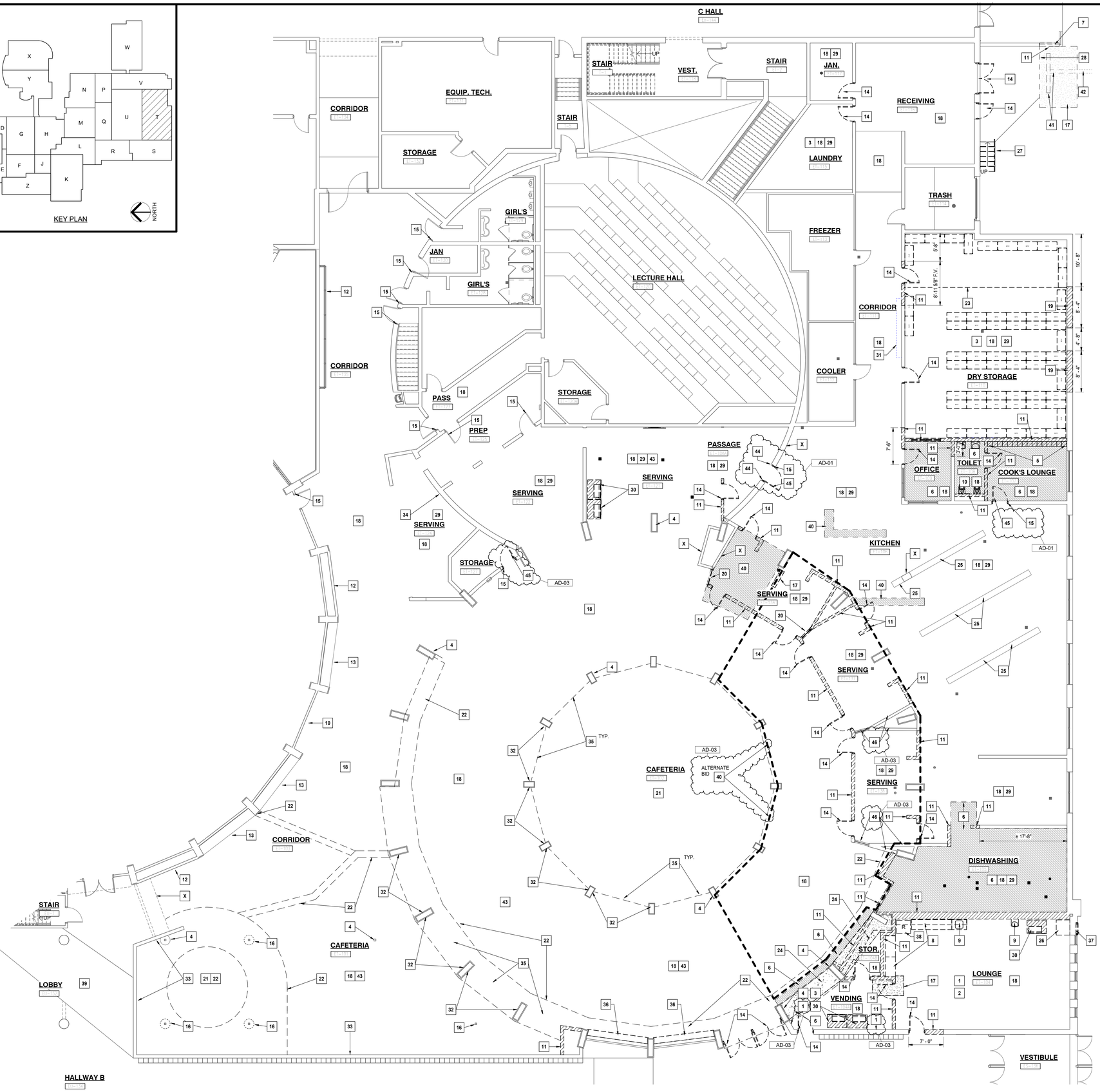

1 AD121 UNIT "T" ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN

1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

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

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. MASONRY WALLS TO BE REMOVED SHALL BE REMOVED TO A POINT 2" MINIMUM BELOW THE EXISTING FLOOR SLAB UNLESS SETTING ON A SLAB OR SPECIFICALLY NOTED OTHERWISE. PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.

Q. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL REVIEW OF DEMOLITION NOTES AND GENERAL DEMOLITION NOTES AS THEY APPLY TO THEIR SCOPE OF WORK.

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

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

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

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

V. 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.

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

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

Y. PROTECT EXISTING CASEWORK TO REMAIN.

Z. EXISTING CEILING TO REMAIN UNLESS NOTED OTHERWISE.

DEMOLITION PLAN NOTES:

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

1 REMOVE EXISTING WALL COVERING IN ITS ENTIRETY. 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 RECEIVE NEW FINISHES. REFER TO A-800 SERIES DRAWINGS.
3 REMOVE EXISTING VINYL TILE AND WALL BASE IN ITS ENTIRETY. PATCH AND REPAIR FLOOR AND WALLS TO RECEIVE NEW FINISHES. REFER TO A-800 SERIES DRAWINGS.
4 PATCH, REPAIR, AND REPLACE MISSING WALL TILE (5% OF PIER TYP). MATCH TILE SIZE. PREPARE FOR PAINT. (TYP)
5 REMOVE EXISTING LOCKERS. REMOVE EXISTING LOCKER BASE. STORE LOCKERS FOR FUTURE USE.
6 REMOVE EXISTING FLOOR TILE (OR QUARRY TILE), TILE WALL BASE, AND SETTING BED IN ITS ENTIRETY. REFER TO STRUCTURAL DRAWINGS FOR MATERIAL INFILL TO NEW SUBFLOOR ELEVATION FOR NEW FLOOR FINISH. REFER TO A-800 SHEETS FOR FINISH.
7 REMOVE EXISTING RAILING.
8 REMOVE EXISTING CASEWORK/SHELVING IN ITS ENTIRETY. PATCH AND REPAIR ADJACENT WALLS AND FLOOR TO RECEIVE NEW FINISHES.
9 REMOVE PLUMBING FIXTURE IN ITS ENTIRETY. CUT AND CAP LINE BELOW WALL OR FLOOR SURFACE UNLESS OTHERWISE NOTED ON PLUMBING DRAWINGS. PATCH AND REPAIR FLOOR AND/OR WALL TO RECEIVE NEW FINISHES.
10 EXISTING COMMEMORATIVE BENCH TO REMAIN. PROTECT DURING CONSTRUCTION
11 REMOVE EXISTING MASONRY WALL IN ITS ENTIRETY TO EXISTING CONCRETE SLAB BELOW OR FOR WALLS ON FOUNDATIONS, TO 4" BELOW FINISHED FLOOR. PATCH AND REPAIR ADJACENT WALLS AND FLOOR TO RECEIVE NEW FINISHES.
12 EXISTING TROPHY CASE TO REMAIN. PROTECT DURING CONSTRUCTION
13 EXISTING COUNTER TO REMAIN. PROTECT DURING CONSTRUCTION
14 REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY. PATCH ADJACENT WALLS AND FLOOR TO RECEIVE NEW CONSTRUCTION AND FINISHES.
15 REMOVE EXISTING FINISHES FROM BOTH SIDES OF METAL FRAME AND PREPARE TO RECEIVE NEW FINISHES. REFER TO A-800 SERIES SHEETS.
16 REMOVE TILE COVERED GYPSUM BOARD AND STUD FRAMING FROM COLUMN. STRUCTURAL COLUMN TO REMAIN.
17 APPROXIMATE LOCATION OF SLAB AND SUBGRADE REMOVAL FOR NEW CONCRETE FOOTINGS.
18 REMOVE EXISTING LAY-IN CEILING IN THIS AREA FOR NEW CONSTRUCTION. SUPPORT EXISTING FIXTURES AND DEVICES TO REMAIN. SALVAGE CEILING PADS.
19 REMOVE EXTERIOR WALL CONSTRUCTION. SALVAGE BRICK. PREPARE FOR NEW LINTEL AND ALUMINUM WINDOW SYSTEM.
20 REMOVE EXISTING WINDOW IN ITS ENTIRETY. PREP WALLS FOR NEW INFILL.
21 REMOVE FAUX SKYLIGHT CEILING FEATURE IN ITS ENTIRETY. GYPSUM SOFFIT TO REMAIN.
22 REMOVE BULKHEAD INCLUDING GYPSUM, LIGHTING, AND BULKHEAD STRUCTURE. PATCH END OF EXISTING SOFFIT TO REMAIN.
23 REMOVE EXISTING CHAIN LINK FENCE AND GATE.
24 REMOVE CURB AND SLAB TO 2" BELOW EXISTING FINISHED FLOOR LEVEL.
25 CAREFULLY REMOVE TOP OF MASONRY WALL TO A LEVEL OF 48" AFF. PREP FOR NEW TOP FINISH.
26 REMOVE VENTILATOR UNIT. PATCH GYPSUM BOARD. REFER TO MECH SHEETS.
27 CAREFULLY REMOVE EXISTING CONCRETE STAIR AND RAILING TO 12" BELOW EXISTING CONCRETE SLAB. BACKFILL AND INSTALL 6" CONCRETE. DOWEL INTO ADJACENT CONCRETE. AD-03
28 REMOVE EXISTING BUMPER PADS FROM THIS FACE. PATCH CONCRETE FACE.
29 REFER TO "FS" SHEETS FOR EQUIPMENT DEMOLITION AND OR RELOCATION OF EXISTING FOOD SERVICE EQUIPMENT.
30 VENDING MACHINE TO BE REMOVED BY VENDOR TO A LOCATION PRESCRIBED BY THE OWNER.
31 REMOVE EXISTING LOCKERS WITH METAL LEG BASE. RETURN TO OWNER
32 REMOVE PORTION OF WALL TILE AND TILE BACKING FOR BLOCKING TO FOLDABLE PARTITION. REFER TO SHEET A-130.
33 REMOVED EXISTING QUARRY TILE BASE FROM CMU WALL.
34 REMOVE APPLIED WALL GRAPHIC. PREPARE WALL FOR NEW PAINT FINISH.
35 REMOVE THRESHOLD IN ITS ENTIRETY. (TYP.)
36 REMOVE WOOD STOOL TOP IN ITS ENTIRETY. PREP FOR NEW FINISH.
37 REMOVE LOUVER IN ITS ENTIRETY. REFER TO MECHANICAL DRAWINGS.
38 REMOVE REFRIGERATOR AND RETURN TO OWNER.
39 REMOVE ACOUSTIC CEILING TILE GRID AND PADS AS REQUIRED FOR NEW MECHANICAL WORK. TEMPORARILY HANG EXISTING DEVICES. REINSTALL AFTER NEW MECHACNICAL WORK IS COMPLETED.
40 REMOVE EXISTING QUARRY TILE. PREPARE FOR NEW QUARRY TILE.
41 REMOVE EXISTING LINEAR DRAIN AND PORTION OF THE 8" STORM DRAIN. PREPARE REMAINDER OF PIPE FOR NEW LINEAR DRAIN.
42 EXISTING 8" STORM DRAIN TO REMAIN.
43 CLEAN EXISTING QUARRY TILE PER SPECIFICATION IN PREPARATION FOR INSTALLATION OF CARPET.
44 REPAIR QUARRY TILE BASE AT DOOR OPENING WITH NEW, SIMILAR SIZE AND TEXTURE PIECES.
45 REMOVE EXISTING DOOR, FRAME TO REMAIN. AD-01
46 BASE BID - EXISTING TO REMAIN. PATCH IF DAMAGED BY ADJACENT DEMOLITION. AD-03
ALTERNATE BID - REMOVE WALL CONSTRUCTION FOR QUARRY TILE REPLACEMENT
X EXISTING TO REMAIN. PATCH IF DAMAGED OR IF ADJACENT CONSTRUCTION IS REMOVED.

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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

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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
EJM
DRAWN BY
CJA, EJM
CHECKED BY
JPB

REGISTERED ARCHITECT NO. 11600109 STATE OF INDIANA

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01
AD-03	08/06/26	ADDENDUM 03

DRAWING
UNIT "T" ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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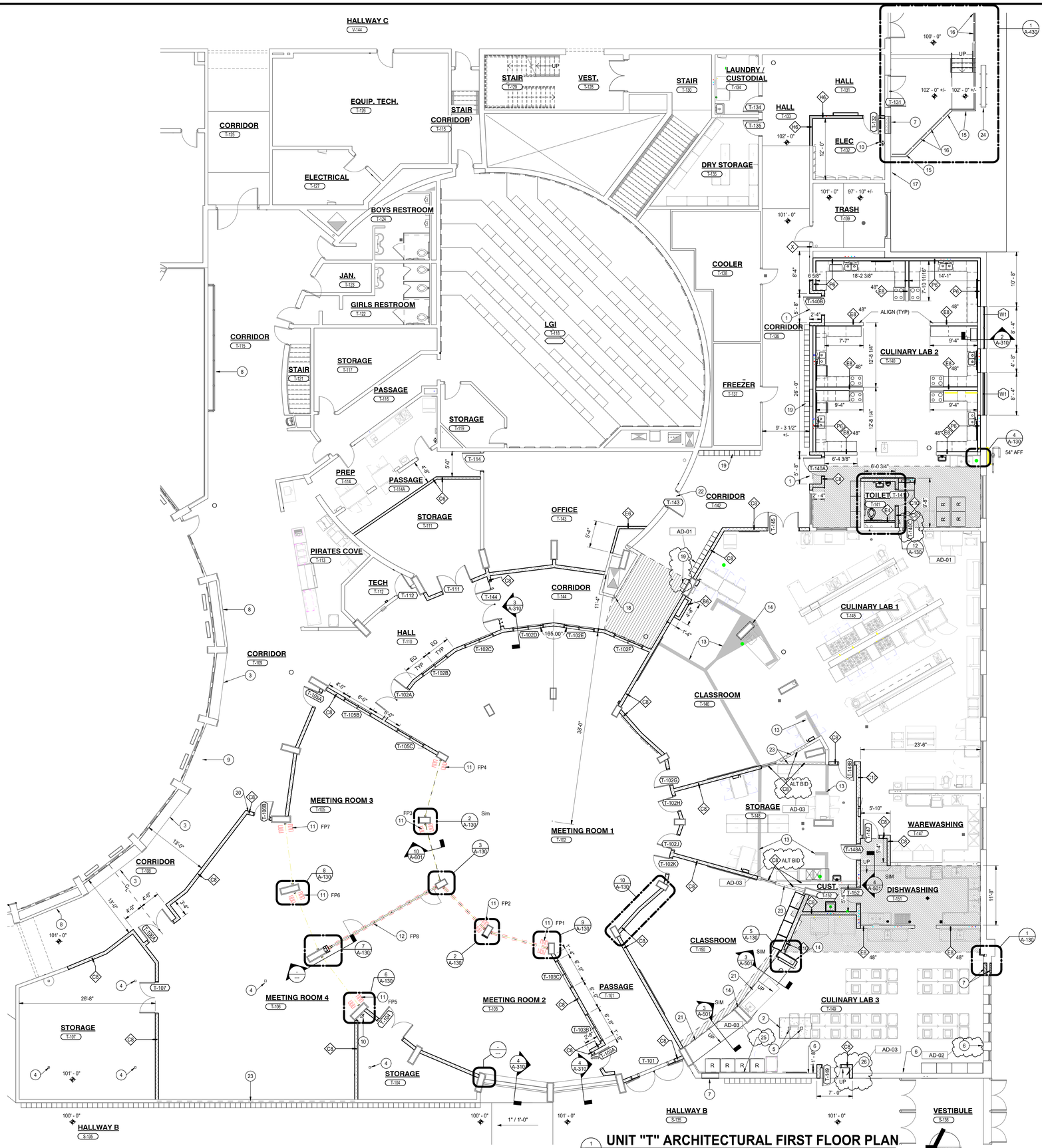


UNIT "T" ARCHITECTURAL FIRST FLOOR PLAN

1 A-121 — 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. MASONRY WALLS BEARING ON A THICKENED SLAB AT SLAB DEPRESSIONS REQUIRE CUT MASONRY UNITS SO THAT COURSING BEGINS AT THE FLOOR LINE.

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

F. HINGE SIDE OF DOOR JAMB AT CMU WALLS SHALL BE LOCATED 8" MINIMUM FROM ADJACENT WALL AND HINGE SIDE OF DOOR JAMB AT GYPSUM BOARD WALLS SHALL BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.

G. VERIFY MOUNTING HEIGHTS OF ACCESSORIES, EQUIPMENT, CASEWORK, ETC. AND PROVIDE FIRE TREATED WOOD BLOCKING (OR METAL STRAPPING WHERE INDICATED) WITHIN METAL STUD WALLS FOR ALL WALL MOUNTED ITEMS.

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

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

J. 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.

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

L. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSED, EXCEPT AT MASONRY BULKHEADS AND EXTERIOR WINDOW JAMBS.

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

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

O. REFER TO EQUIPMENT PLANS FOR CASEWORK, DISPLAY BOARDS, LOCKERS, AND OTHER ADDITIONAL TYPICAL EQUIPMENT NOTES AND INFORMATION.

P. REFER TO A-130 FOR REFERENCE TO ENLARGED TOILET ROOM PLANS AND TOILET ACCESSORIES.

PLAN LEGEND:

INDICATES AREAS OF CEMENTITIOUS FILL TO ELEV 101'-0".

INDICATES NEW QUARRY TILE OVER CEMENTITIOUS BED. MATCH ADJACENT ELEVATION.

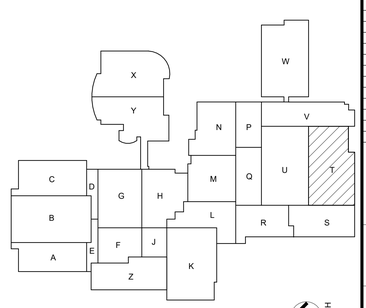
X# WALL TYPE. REFER TO SHEET G-301. TYPE "X" IS EXISTING.

W# WINDOW TYPE. REFER TO SHEET A-610.

ARCHITECTURAL PLAN NOTES:

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

1 INSTALL NEW LINTEL. BI/LINTEL AT 9'-4" AFF.
2 NEW CONCRETE SLAB. REFER TO STRUCTURAL DRAWINGS.
3 EXISTING LAMINATE COUNTERTOP TO REMAIN. PROTECT DURING CONSTRUCTION.
4 PATCH AND PAINT EXISTING COLUMN. REFER TO A800 SERIES SHEETS.
5 NEW STRUCTURAL COLUMN. PAINT.
6 REPAIR EXISTING GYPSUM BOARD WALL AS REQUIRED FOR NEW FINISHES
7 EXISTING WALL INFILL TO MATCH EXISTING WALL MAKEUP. GYP BOARD, INSULATION, METAL STUD, CMU, FACE BRICK. MATCH EXISTING COURSINGS AND TOOTH-IN INFILL.
8 EXISTING DISPLAY CASE TO REMAIN. PROTECT DURING CONSTRUCTION.
9 EXISTING STONE BENCH TO REMAIN. PROTECT DURING CONSTRUCTION.
10 WALL HUNG FIRE EXTINGUISHER.
11 GLASS FOLDING PARTITION STC 45+
12 SOLID FOLDING PARTITION STC 50+ WITH 2 SINGLE DOORS TO EXIT EITHER DIRECTION.
13 PATCH QUARRY TILE FLOOR AS REQUIRED WHERE MASONRY WALLS WERE DEMOLISHED.
14 APPLY 2x2 / 4x4 CERAMIC WALL TILE (MATCH FINISH OF ADJACENT COLUMNS) ON GLASS MAT GYPSUM BOARD ON FURRING STRIPS AROUND CONCRETE COLUMN. PAINT TILE.
15 NEW ALUMINUM GUARD RAILING
16 NEW REMOVABLE RAILING SECTION
17 CLEAN BRICK WHERE CONCRETE STAIR WAS REMOVED. REPLACE CMU AT VENEER OR DAMAGED BRICK WITH SALVAGED BRICK FROM NEW WINDOW INSTALLATION.
18 PATCH MASONRY CORNER FOR NEW CORNER GUARD INSTALLATION
19 METAL LOCKERS.
20 MIDDLE OF WALL TO ALIGN WITH EXISTING TRANSITION BETWEEN T2 AND QT.
21 SLOPED FLOOR TRANSITION.
22 INSTALL NEW 8" WIDE METAL THRESHOLD.
23 ABOVE THE EXISTING 8" CMU WALL, FROM THE TOP OF WALL TO THE METAL ROOF DECK (APPROXIMATELY 5FT), INSTALL A 6" METAL STUD WALL WITH BATT INSULATION AND 5/8" GYPSUM BOARD ON EACH SIDE BETWEEN THE TOP OF THE WALL. INSTALL ACOUSTIC SEALANT AT ALL PENETRATIONS AND AT THE TOP OF THE WALL.
24 NEW LINEAR TRENCH DRAIN. CONNECT TO EXISTING 8" STORM LINE.
25 SKIMCOAT GYPSUM BOARD WALL WHERE WALL COVERING IS REMOVED.
26 TAPER ARDEX FROM CORRIDOR TO QUARRY TILE FLOOR FINISH OF LAB 3.



KEY PLAN

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PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
EJM
DRAWN BY
CJA, EJM
CHECKED BY
JPB

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AD-02	07/31/26	ADDENDUM 02
AD-03	08/06/26	ADDENDUM 03

DRAWING
UNIT "T" ARCHITECTURAL FIRST FLOOR PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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GENERAL RESTROOM NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATION, ETC., REFER TO SHEET G-301.

B. DEPTH OF ALL TOILET ENCLOSURES SHALL BE A MINIMUM OF 5'-0" CLEAR INSIDE DIMENSION UNLESS NOTED OTHERWISE.

C. REFER TO PLUMBING DRAWINGS FOR FIXTURE TYPES.

D. REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS.

E. COORDINATE HEIGHT OF GRAB BAR WITH TANK ON FLUSH VALVE OF WALL MOUNTED WATER CLOSET.

F. INSTALL LAVATORIES AND URINALS AT 2'-6" ON CENTER MINIMUM UNLESS NOTED OTHERWISE.

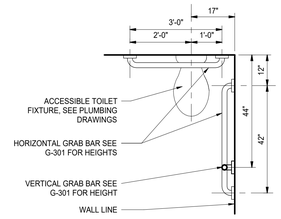
G. REFERENCE FINISH PLANS FOR FINISH INFORMATION.

H. FOR MOUNTING HEIGHTS REFER TO SHEET G-301

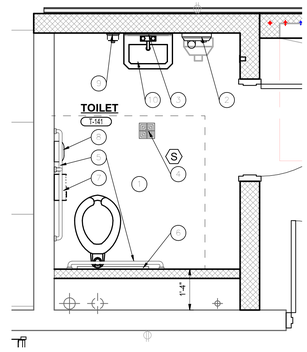
ENLARGED RESTROOM PLAN NOTES:

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

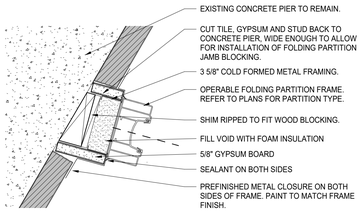
1 ACCESSIBLE FACILITIES.
2 ELECTRIC HAND DRYER. REFER TO ELECTRICAL DRAWINGS.
3 2'-0" W x 3'-0" H MIRROR WITH BOTTOM OF REFLECTIVE SURFACE MOUNTED AT 40" A.F.F.
4 EXISTING FLOOR DRAIN TO REMAIN. REFER TO PLUMBING DRAWINGS.
5 GRAB BARS.
6 EXISTING 24"x24" ACCESS PANEL TO REMAIN.
7 TOILET PAPER HOLDER. (OFCI)
8 FEMININE NAPKIN DISPOSAL.
9 SOAP DISPENSER. (OFCI)
10 ACCESSIBLE FIXTURE (LAVATORY/URINAL). SEE PLUMBING DRAWINGS.



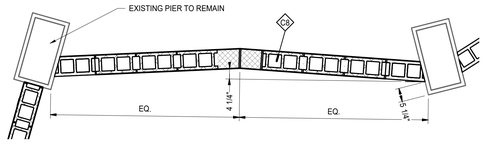
PRIVATE TOILET
ROOMS:T-141



12 A-130 ENLARGED TOILET ROOM PLAN
1/2" = 1'-0"



11 A-130 PLAN DETAIL AT FOLDING PARTITION JAMB
3" = 1'-0"



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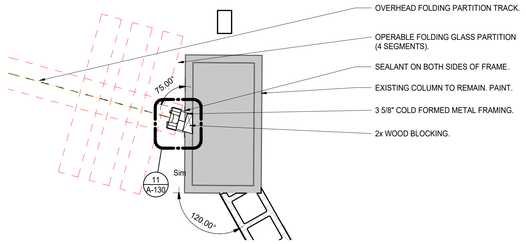
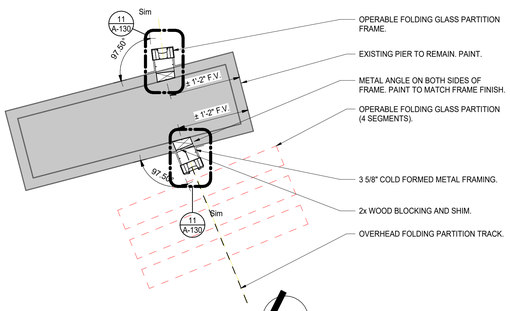
1/2" = 1'-0"



9 A-130 PLAN DETAIL
1" = 1'-0"



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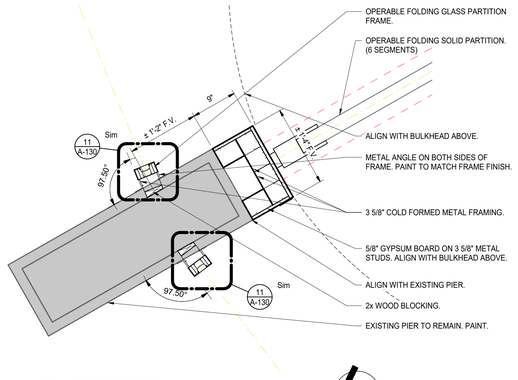
1" = 1'-0"



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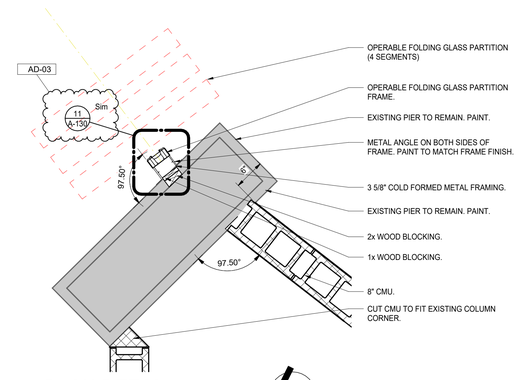
1" = 1'-0"



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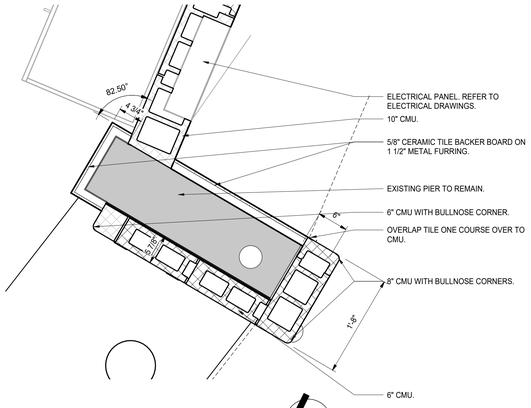
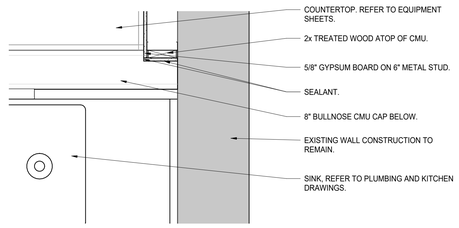
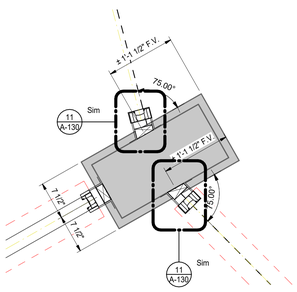
1" = 1'-0"



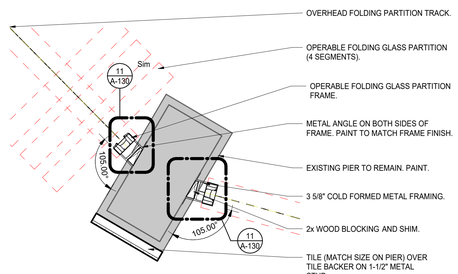
5 A-130 PLAN DETAIL
1" = 1'-0"



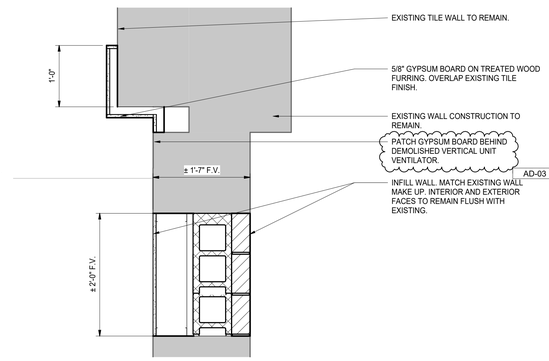
PLAN DETAIL ABOVE 8" CMU HALF WALL
4 A-130 1" = 1'-0"



3 A-130 PLAN DETAIL
1" = 1'-0"



2 A-130 PLAN DETAIL
1" = 1'-0"



1 A-130 PLAN DETAIL
1" = 1'-0"

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DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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

BID SET

GIBRALTAR DESIGN
4030 Vincennes Rd., Ste. 100
Indianapolis, IN 46268
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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
EJM
DRAWN BY
CJA, EJM
CHECKED BY
JPB

REGISTERED ARCHITECT NO. 11600109 STATE OF INDIANA

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REVISIONS

MARK	DATE	ISSUED FOR
AD-03	08/06/26	ADDENDUM 03

DRAWING
PLAN DETAILS

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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SHEET
A-130

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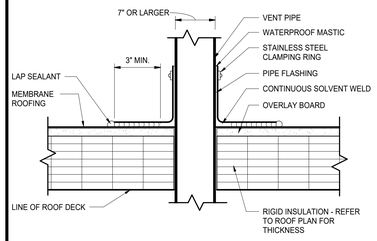
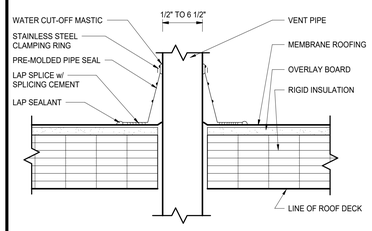


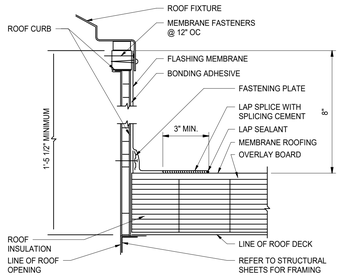
ROOF PIPE FLASHING DETAIL

4 / A-221 3" = 1'-0"



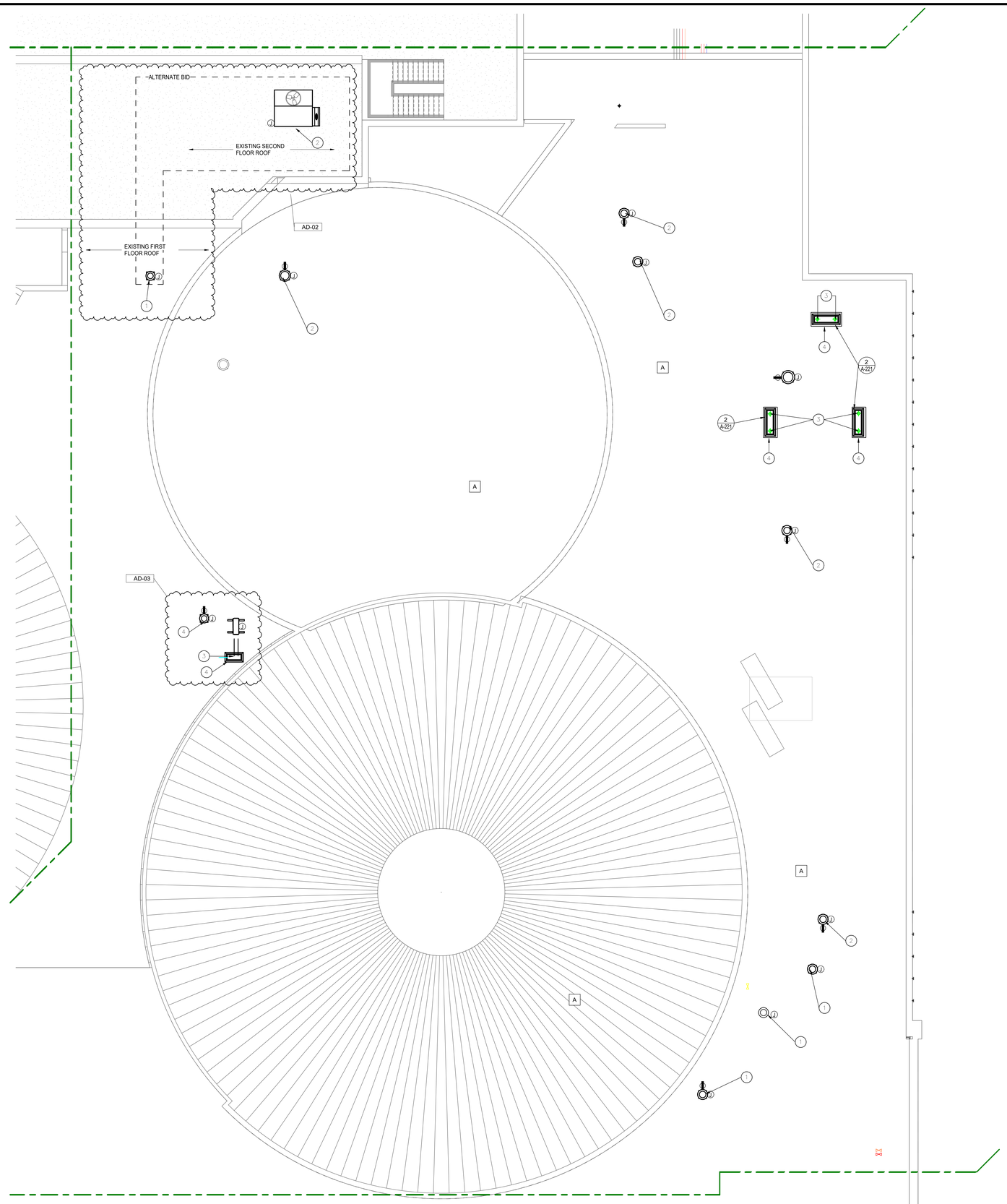
ROOF VENT FLASHING DETAIL

3 / A-221 3" = 1'-0"



ROOF CURB FLASHING DETAIL

2 / A-221 3" = 1'-0"



UNIT "T" ARCHITECTURAL ROOF PLAN

1 / A-221 1/8" = 1'-0"

NORTH

GENERAL ROOFING NOTES:

A. FOR GENERAL NOTES, MATERIAL IDENTIFICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC. REFER TO SHEET G-301.

B. THE ROOFING INSTALLER SHALL VERIFY ALL DIMENSIONS, CLEARANCES, AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

C. THE ROOFING INSTALLER SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ALL DAMAGE CAUSED BY THE IMPROPER STORAGE OR STACKING OF ROOFING MATERIALS.

D. ALL DIMENSIONS INDICATED ON ROOF PLAN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ACCURATE FIELD MEASUREMENTS FOR THEIR EXECUTION OF THEIR WORK AND PRIOR TO ANY FABRICATION OF THE VARIOUS MATERIALS.

E. THE ROOFING CONTRACTOR SHALL PROTECT ALL ROOF DRAINS, SCUPPERS AND DOWNSPOUTS FROM DEBRIS CREATED DURING CONSTRUCTION. THE ROOFING INSTALLER SHALL INSPECT AND CLEAR ALL DRAINS, SCUPPERS, AND DOWNSPOUTS PRIOR TO COMPLETION OF NEW WORK TO ENSURE THAT THEY ARE FREE OF DEBRIS AND FUNCTIONING PROPERLY.

F. FOR LOCATION, TYPE, AND SIZE OF ALL ROOF TOP MECHANICAL EQUIPMENT REFER TO MECHANICAL DRAWINGS.

G. FOR LOCATIONS OF ALL PLUMBING VENTS REFER TO PLUMBING DRAWINGS.

H. EXTEND ALL PLUMBING VENTS SO THAT THE TOP IS A MINIMUM OF 12" ABOVE THE ROOFING SYSTEM.

I. PROVIDE FLASHING AT ALL VENTS, MECHANICAL CURBS, MASONRY WALLS, FLUES, DRAINS, FASCIAS, ETC. IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS, AND WITH ROOFING MANUFACTURERS STANDARD DETAILS AND SPECIFICATIONS.

J. CONTRACTOR TO PROVIDE CRICKETS AND/OR ROOF SADDLES TO PROMOTE POSITIVE DRAINAGE AROUND ALL ROOF TOP PENETRATIONS.

K. SADDLES AND TAPERED INSULATION SYMBOLS INDICATE DESIGN INTENT TO SLOPE TO DRAIN. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS FOR TAPERED INSULATION AND SADDLES TO ENSURE POSITIVE SLOPE.

L. ALL NEW WOOD BLOCKING & NAILERS SHALL BE TREATED WOOD.

M. REFER TO ARCHITECTURAL FLOOR PLAN FOR LOCATION OF SECTION CUTS FOR ADDITIONAL INFORMATION.

N. REMOVE ALL ROOF GRAVEL, RESIDUE, AND ALL PROJECTIONS WHICH WOULD PREVENT THE NEW ROOF INSULATION FROM LAYING FLAT OVER THE ROOF SURFACES.

O. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF ROOF TOP EQUIPMENT TO BE REMOVED.

P. DEMOLITION AND REMOVAL OPERATIONS ARE TO BE PERFORMED CARE- FULLY AND ALL PORTIONS OF THE BUILDING SHALL BE PROTECTED DURING THESE OPERATIONS. ITEMS TO BE REUSED AND REINSTALLED ARE TO BE CAREFULLY REMOVED AND STORED. DAMAGES INCURRED DURING REMOVAL OR STORAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

ROOF LEGEND AND TYPICAL DETAILS:

- INDICATES ROOF SLOPE (1/4" PER 12") (U.N.O.)
- INDICATES ROOF SADDLE SLOPE (1/2" PER 12") — AD-02
- EXHAUST FAN — 2 / A-221
- PLUMBING VENT — 3 / A-221, 4 / A-221
- LOUVER VENT ASSEMBLY
- EXHAUST GOOSENECK — AD-02

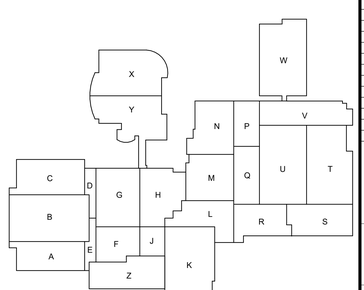
ROOF TYPES:

A — EXISTING ROOF SYSTEM IS COMPRISED OF A TREMCO ALPHAGUARD with PERMAFAB SYSTEM OVER 60MIL EPDM ON RECOVERY BOARD AND RIGID INSULATION. ALL ROOF WORK SHALL BE PERFORMED SUCH THAT THE EXISTING WARRANTY REMAINS IN FORCE. PROTECT FROM ADJACENT ROOF WORK.

ROOF PLAN NOTES:

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

1. NEW MECHANICAL EXHAUST FAN. REFER TO DETAIL 2/A221 AND MECHANICAL SHEETS.
2. REPLACE EXISTING FAN UNIT. REUSE EXISTING CURB.
3. NEW GOOSENECK EXHAUST.
4. NEW ROOF CURB TO FACILITATE GOOSENECK EXHAUST PORTALS.



KEY PLAN

NORTH

GIBRALTAR DESIGN
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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
EJM
DRAWN BY
CJA, EJM
CHECKED BY
JPB

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

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REVISIONS

MARK	DATE	ISSUED FOR
AD-02	07/31/26	ADDENDUM 02
AD-03	08/06/26	ADDENDUM 03

DRAWING
UNIT "T"ARCHITECTURAL ROOF PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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SHEET
A-221

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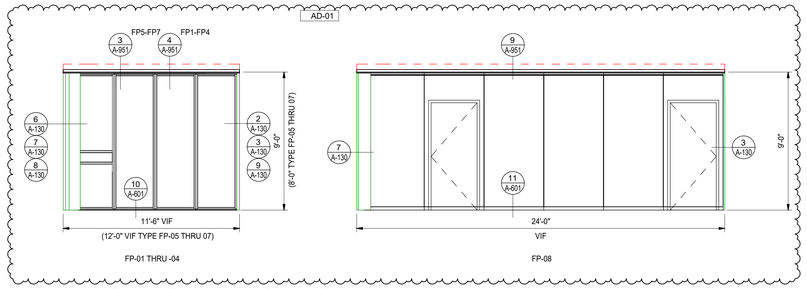
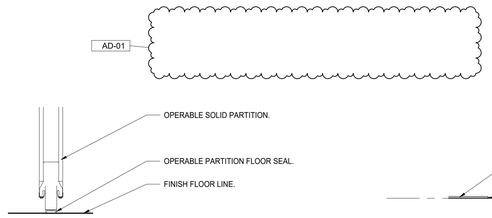
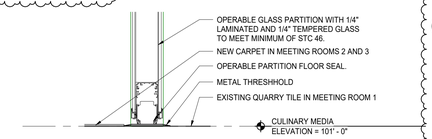


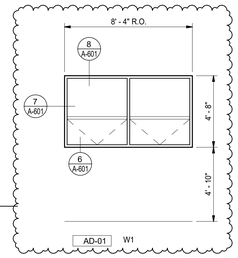
12/A-130 FOLDING PARTITION LEGEND
1/4" = 1'-0"



11/A-601 OPERABLE SOLID PARTITION SILL
1 1/2" = 1'-0"



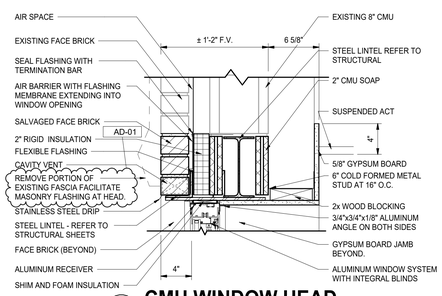
10/A-601 OPERABLE GLASS PARTITION SILL
1 1/2" = 1'-0"



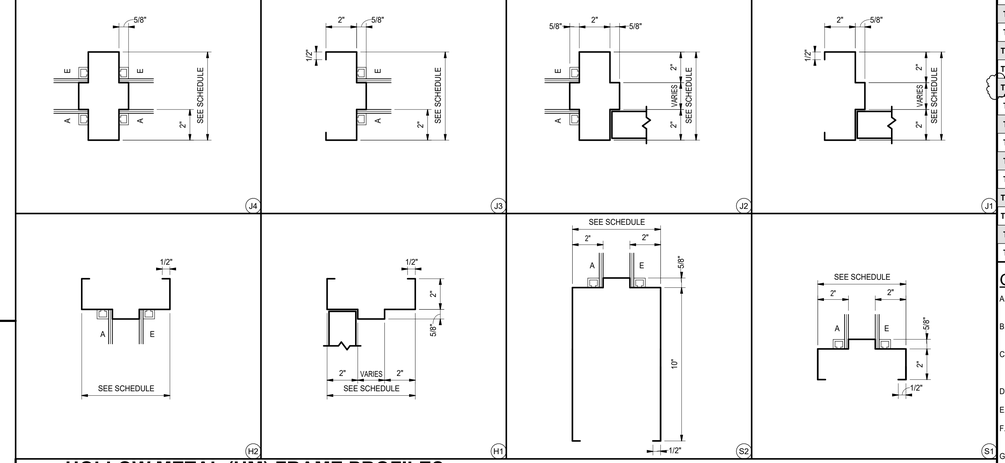
9/A-130 ALUMINUM WINDOW LEGEND
1/4" = 1'-0"

NOTES - ALUMINUM WINDOWS (W)

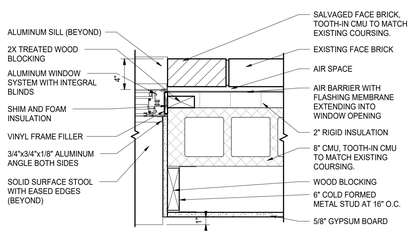
1. PROVIDE SHIM SPACE, BACKER ROD AND SEALANT AROUND PERIMETER OF ALL WINDOW FRAMING WHERE FRAMING ABUTS DISSIMILAR MATERIALS.
2. PROVIDE FOAM INSULATION IN SHIM SPACE AROUND PERIMETER OF ALL EXTERIOR WINDOW FRAMING.
3. DIMENSIONS SHOWN ARE NOMINAL. FIELD VERIFY ALL DIMENSIONS SHOWN PRIOR TO FABRICATION AND INSTALLATION.
4. ALL FRAMES IN EXTERIOR WALLS SHALL BE THERMALLY BROKEN WITH 1" INSULATED GLAZING.
5. ALL GLAZING SHALL CONFORM TO STATE AND LOCAL CODES.
6. REFER TO BUILDING ELEVATIONS FOR HINGE SIDE LOCATIONS.
7. PROVIDE 3/4"X3/4" ALUMINUM SCRIBE MOLD AT PERIMETER OF BOTH SIDES ON ALL WINDOWS UNLESS NOTED OTHERWISE. SET SCRIBE MOLDS IN SEALANT.



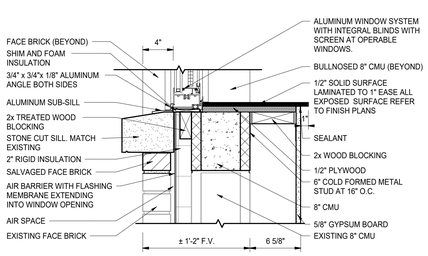
8/A-601 CMU WINDOW HEAD
1 1/2" = 1'-0"



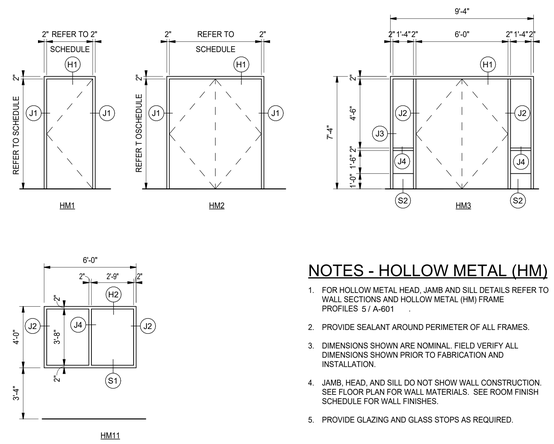
5/A-601 HOLLOW METAL (HM) FRAME PROFILES
3" = 1'-0"



7/A-601 CMU WINDOW JAMB
1 1/2" = 1'-0"



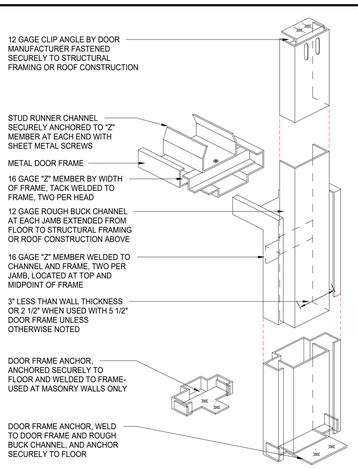
6/A-601 CMU WINDOW SILL
1 1/2" = 1'-0"



NOTES - HOLLOW METAL (HM)

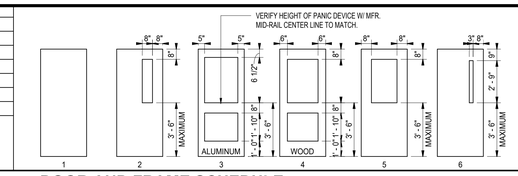
1. FOR HOLLOW METAL HEAD, JAMB AND SILL DETAILS REFER TO WALL SECTIONS AND HOLLOW METAL (HM) FRAME PROFILES 5 / A-601 .
2. PROVIDE SEALANT AROUND PERIMETER OF ALL FRAMES.
3. DIMENSIONS SHOWN ARE NOMINAL. FIELD VERIFY ALL DIMENSIONS SHOWN PRIOR TO FABRICATION AND INSTALLATION.
4. JAMB, HEAD, AND SILL 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.

4/A-601 HOLLOW METAL FRAME ELEVATIONS (HM)
1/4" = 1'-0"



3/A-601 TYPICAL HEAD & JAMB ANCHORAGE
NTS

GLASS SCHEDULE	
MK	GLASS TYPES
A	1/4" TEMPERED (CLEAR)
B	1" INSUL. GLASS (CLEAR)
C	1" INSUL. GLASS (TINTED)
D	1/2" LAMINATED
E	5/16" LAMINATED
S	SPANDREL



DOOR AND FRAME SCHEDULE

NO.	DESC	DOOR TYPE	DOOR W	DOOR H	DOOR MAT'L	GLASS DR	GLASS SIDE LGT	GLASS TRA	FRAME MAT'L	FRAME DEPTH	FRAME ELEV.	LBL	HARDWARE CLOSER	HARDWARE EXIT DEVICE	NOTES
T-101	DOUBLE	4	6' - 0"	7' - 2"	WD	A	A		HM	8 3/4"	HM3		Yes	Yes	2, 3, 8, 12 (AD-01)
T-102A	DOUBLE	4	6' - 0"	7' - 2"	WD	A,E			HM	8 3/4"	HM2		Yes	Yes	2, 3, 5, 8, 9, 15, MEETING, STC-45
T-102B	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9 (AD-02)
T-102C	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-102D	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-102E	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-102F	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-102G	SINGLE	1	3' - 0"	7' - 2"	WD				HM	8 3/4"	HM1		Yes	Yes	EXIT ONLY, STC-45
T-102H	SINGLE	2	3' - 0"	7' - 2"	WD	A,E			HM	8 3/4"	HM1		No	No	9, 15, STORAGE/PREP, STC-45
T-102J	SINGLE	2	3' - 0"	7' - 2"	WD	A,E			HM	8 3/4"	HM1		No	No	9, 15, STORAGE/PREP, STC-45
T-102K	SINGLE	1	3' - 0"	7' - 2"	WD				HM	8 3/4"	HM1		Yes	Yes	EXIT ONLY, STC-45
T-103A	SINGLE	4	3' - 0"	7' - 2"	WD	A,E			HM	8 3/4"	HM1		Yes	Yes	2, 3, 8, 9, 15, MEETING, STC-45
T-103B	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9 (AD-02)
T-103C	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9 (AD-02)
T-104	DOUBLE	1	6' - 0"	7' - 2"	WD				HM	8 3/4"	HM2		No	No	13, STORAGE
T-105A	SINGLE	4	3' - 0"	7' - 2"	WD	A,E			HM	8 3/4"	HM1		Yes	Yes	2, 3, 8, 9, 15, MEETING, STC-45
T-105B	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-105C	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-106A	DOUBLE	4	6' - 0"	7' - 2"	WD	A,E			HM	8 3/4"	HM2		Yes	Yes	2, 3, 5, 8, 9, 15, MEETING, STC-45
T-106B	SINGLE	1	3' - 0"	7' - 2"	WD				HM	8 3/4"	HM1		Yes	Yes	2, 3, MEETING, STC-45
T-107	DOUBLE	1	6' - 0"	7' - 2"	WD				HM	8 3/4"	HM2		No	No	13, STORAGE
T-111	DOUBLE	1	6' - 0"	7' - 2"	WD				HM	8 3/4"	HM2		No	No	13, STORAGE
T-112	SINGLE	1	3' - 0"	7' - 2"	WD				EXIST		EXIST		No	No	14, BATTERY OPERATED CARD READER (AD-03)
T-114	SINGLE	2	3' - 6"	7' - 2"	WD	A			HM	8 3/4"	HM1		No	No	STORAGE
T-131	DOUBLE	1	6' - 0"	7' - 0"	HM				HM	6"	HM2		Yes	Yes	1, 2, 3, 4, 5, 6, EXTERIOR
T-132	SINGLE	1	3' - 0"	7' - 2"	WD				HM	8 3/8"	HM1		No	No	ELECTRICAL ROOM
T-134	SINGLE	1	3' - 0"	7' - 2"	WD				HM	9 1/8"	HM1		No	No	1, CUSTODIAL
T-135	SINGLE	1	3' - 0"	7' - 2"	WD				HM	9 1/8"	HM1		No	No	1, STORAGE
T-140A	SINGLE	2	3' - 6"	7' - 2"	WD	A			HM	8 3/4"	HM1		Yes	Yes	CLASSROOM
T-140B	SINGLE	2	3' - 6"	7' - 2"	WD	A			HM	8 3/4"	HM1		Yes	Yes	CLASSROOM
T-140C	SINGLE	2	3' - 0"	7' - 2"	WD	A			EXIST		EXIST		Yes		14, PASSAGE KEY DEADBOLT BOTH SIDES (AD-01)
T-141	SINGLE	1	3' - 0"	7' - 2"	WD				HM	8 3/4"	HM1		Yes	No	PRIVACY (AD-01)
T-143	SINGLE	2	3' - 6"	7' - 2"	WD	A			EXISTING		EXIST		Yes	No	14, OFFICE
T-144	DOUBLE	4	6' - 0"	7' - 2"	WD	A	A		HM	8 3/4"	HM3		Yes	Yes	2, 3, 5, SECURE HALLWAY
T-145	DOUBLE	4	6' - 0"	7' - 2"	WD	A			HM	8 3/4"	HM2		Yes	Yes	5, CLASSROOM
T-147	SINGLE	2	3' - 0"	7' - 2"	WD	A			HM	8 3/4"	HM1		Yes	No	PASSAGE KEY DEADBOLT BOTH SIDES
T-148A	SINGLE	2	3' - 0"	7' - 2"	WD	A			HM	10 3/4"	HM1		Yes	No	STORAGE/PREP
T-148B	SINGLE	2	3' - 0"	7' - 2"	WD	A			HM	8 3/4"	HM1		Yes	No	STORAGE/PREP
T-149	SINGLE	2	3' - 6"	7' - 2"	WD	A			HM	8 3/4"	HM1		Yes	Yes	CLASSROOM
T-152	SINGLE	1	3' - 0"	7' - 2"	WD				HM	10 3/4"	HM1		No	No	CUSTODIAL

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.

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 DETAILS ON SHEET A-601.

H. FOR ELECTRIC ROUGH-IN AT DOORS REFER TO DETAILS ON SHEET A-601.

I. FOR HOLLOW METAL FRAME ELEVATIONS AND PROFILES ON SHEET A-601.

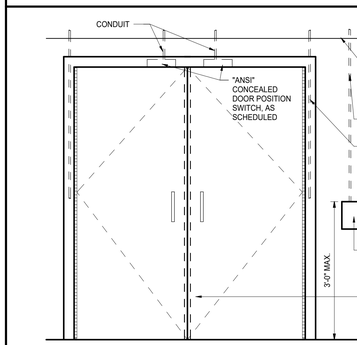
J. GLASS NOTED IN DOOR COLUMN FOR BORROWED LIGHT FRAMES APPLIES TO ALL OPENINGS IN FRAME, UNLESS NOTED OTHERWISE. REFER TO FRAME ELEVATIONS.

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

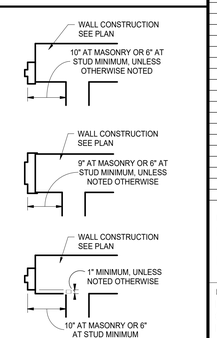
L. REFER TO FRAME ELEVATIONS FOR HEAD, JAMB, AND SILL DETAILS ON SHEET A-601.

DOOR SCHEDULE NOTES (REMARKS):

1. FIELD VERIFY EXISTING WALL CONSTRUCTION PRIOR TO ORDERING FRAME.
2. PANIC DEVICE OR LATCH TO HAVE ELECTRIC LATCH BOLT. PREPARE FRAME FOR ELECTRIFIED HINGE.
3. DOOR TO BE PREPARED TO BE CONTROLLED BY CARD READER/FOB. REFER TO ELECTRICAL DRAWINGS FOR ROUGH-IN.
4. PROVIDE ALUMINUM THRESHOLD SET IN FULL BED OF MASTIC.
5. PROVIDE KEYED REMOVABLE MULLION.
6. PREPARE DOOR AND FRAME FOR POSITION SWITCH.
7. INSTALL FLUSH BOLTS ON INACTIVE LEAF
8. PROVIDE SOUND GASKET AT HEAD AND JAMB. PROVIDE DROP DOWN SEAL AT THE BOTTOM OF THE DOOR
9. PROVIDE SOUND GASKET AROUND GLASS EDGE
10. INTEGRAL CONCEALED ROD PANIC HARDWARE.
11. NEW DOOR IN EXISTING FRAME. FIELD VERIFY DOOR SIZE.
12. DOOR TO UTILIZE 180 DEGREE HINGES TO OPEN AGAINST WALL.
13. THROW BOLTS HEAD AND SILL IN INACTIVE LEAF.
14. VERIFY EXISTING FRAME SIZE PRIOR TO ORDERING DOOR SLAB. MODIFY FRAME AS REQUIRED FOR NEW DOOR HARDWARE.
15. OVERALL GLASS UNIT 1-1/16" - 1/4" GLASS, 1/2" SPACER, 1/8" GLASS, .060" PVB, 1/8" GLASS



2/A-601 TYPICAL ELECT ROUGH/FRAME MOUNT
3/4" = 1'-0"



1/A-601 FRAME MOUNTING
3/4" = 1'-0"

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PROJECT:
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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

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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
EJM
DRAWN BY
CJA, EJM
CHECKED BY
JPB

REGISTERED ARCHITECT ND. 11600109 STATE OF INDIANA

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AD-02	07/31/26	ADDENDUM 02
AD-03	08/06/26	ADDENDUM 03

DRAWING
DOOR SCHEDULE, FRAME PROFILES, ELEVATIONS AND DETAILS

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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SHEET
A-601

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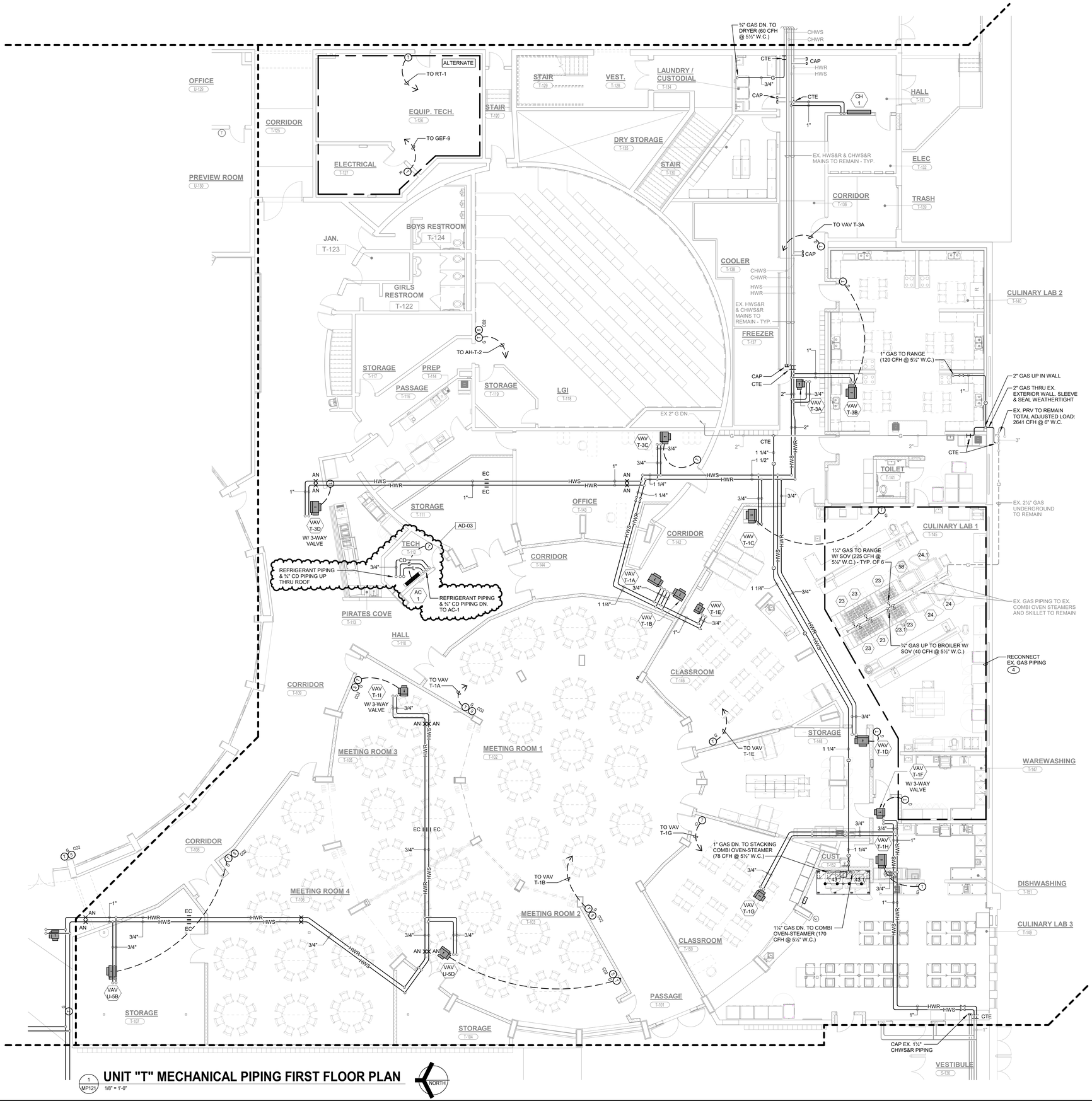
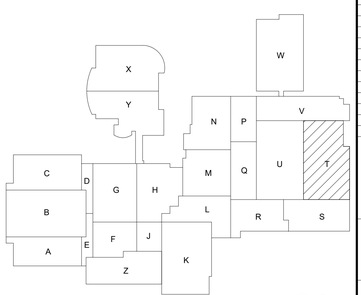
SHEET NOTES

1. CLEAN AND REINSTALL EXISTING SUPPLY AIR DIFFUSER COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK AND PROVIDE ADDITIONAL DUCTWORK FOR CONNECTION AS REQUIRED. BALANCE SUPPLY AIR DIFFUSER TO AIRFLOW CAPACITY SHOWN ON PLANS.
2. CLEAN AND REINSTALL EXISTING SUPPLY AIR FLOOR REGISTER COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK AND PROVIDE ADDITIONAL DUCTWORK FOR CONNECTION AS REQUIRED. BALANCE SUPPLY AIR DIFFUSER TO AIRFLOW CAPACITY SHOWN ON PLANS.
3. CLEAN AND REINSTALL EXISTING TRANSFER AIR GRILLE COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK AND PROVIDE ADDITIONAL DUCTWORK FOR CONNECTION AS REQUIRED.
4. REINSTALL EXISTING KITCHEN EQUIPMENT PIPING CONNECTIONS UPON COMPLETION OF WALL REPAIRS COMPLETE AS REQUIRED.



1 (MP121) UNIT "T" MECHANICAL PIPING FIRST FLOOR PLAN
1/8" = 1'-0"



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KM
DRAWN BY
RC
CHECKED BY
DJ

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

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DRAWING
UNIT "T" MECHANICAL PIPING FIRST FLOOR PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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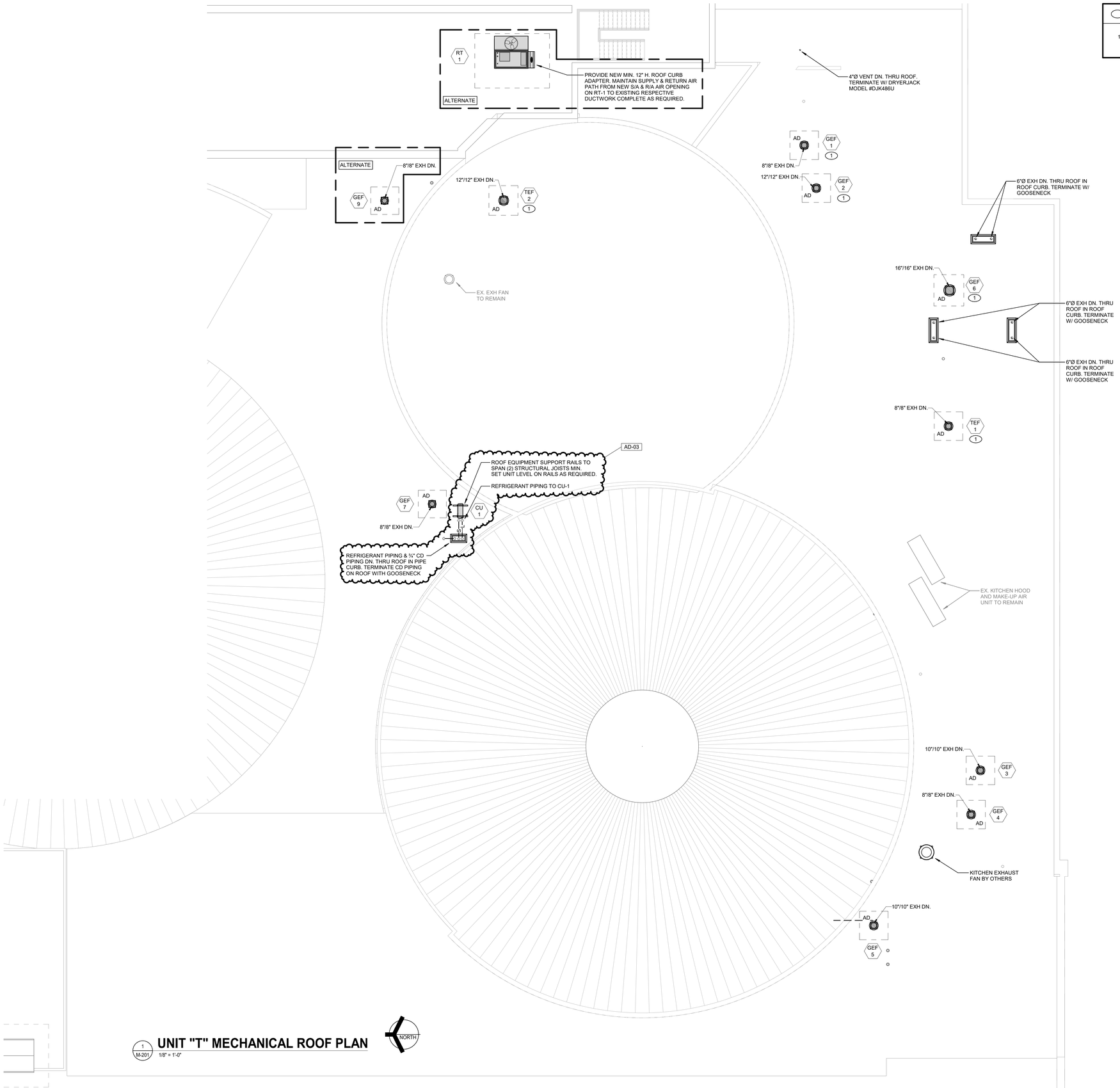
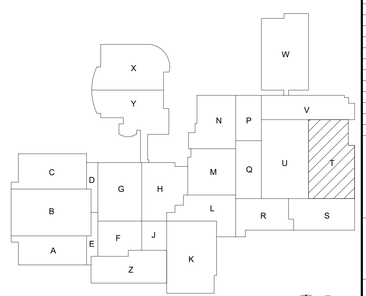
SHEET NOTES

1. EXISTING ROOF CURB TO REMAIN. PROVIDE NEW ROOF CURB ADAPTER AND MODIFY AS REQUIRED FOR NEW EXHAUST FAN INSTALLATION.



1 M-201 **UNIT "T" MECHANICAL ROOF PLAN**

1/8" = 1'-0"



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

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DRAWING
UNIT "T" MECHANICAL ROOF PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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MECHANICAL EQUIPMENT SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	EFFICIENCY	FAN MOTOR DATA: CFM	MIN. OAI CFM: HIGH	MIN. OAI CFM: LOW	ESP	BHP	HP	RPM	EXHAUST FANS: CFM	ESP	BHP	HP	RPM
AH-T-1	YORK	XTI-69x117	INTERIOR FLOOR MOUNTED AIR HANDLING UNIT - CHW COOLING/ HW HEATING - VAV		13100	3755		3.1	(2) @ 7.2	(2) @ 7.5	2260					
AH-T-2	YORK	XTI-51x54	INTERIOR FLOOR MOUNTED AIR HANDLING UNIT - CHW COOLING/ HW HEATING - SZVAV		4100	1630	410	1.4	(2) @ 2.0	(2) @ 3	4038					
AH-T-3	YORK	XTI-63x69	INTERIOR FLOOR MOUNTED AIR HANDLING UNIT - CHW COOLING/ HW HEATING - VAV		6450	2320		3.4	(2) @ 3.8	(2) @ 5	3520					
AH-U-1	YORK	XTI-69x96	INTERIOR FLOOR MOUNTED AIR HANDLING UNIT - CHW COOLING/ HW HEATING - SZVAV		10000	2045	1000	2.8	(2) @ 3.8	(2) @ 5	2430					
AH-U-4	YORK	XTI-45x87	INTERIOR FLOOR MOUNTED AIR HANDLING UNIT - CHW COOLING/ HW HEATING - SZVAV		6500	1880	650	1.2	(2) @ 2.6	(2) @ 5	2599					
AH-U-5	YORK	XTI-48x78	INTERIOR FLOOR MOUNTED AIR HANDLING UNIT - CHW COOLING/ HW HEATING - VAV		5800	1635		3.3	(2) @ 3.8	(2) @ 5	3775					
RT-1	AAON	RNA-006-AA-3	ROOF MOUNTED PACKAGED HVAC UNIT - DX COOLING, ELECTRIC HEATING, VAV	12.6 EER	2100			1	1.3	2	1726					
CU-1	SAMSUNG	AC024BN4DCH/AA (AC-1) / AC024BXSCDC/AA (CU-1)	HIGH WALL MOUNTED AC UNIT (AC-1) / ROOF MOUNTED AIR-COOLED CONDENSING UNIT (CU-1)	9.6 EER	630											
GEF-1	GREENHECK	G-070-VG	ROOF MOUNTED GENERAL EXHAUST FAN									400	0.3	0.02	1/15	1464
GEF-2	GREENHECK	G-090-VG	ROOF MOUNTED GENERAL EXHAUST FAN									510	0.35	0.06	1/10	1463
GEF-3	GREENHECK	G-090-VG	ROOF MOUNTED GENERAL EXHAUST FAN									600	0.4	0.06	1/10	1646
GEF-4	GREENHECK	G-060-VG	ROOF MOUNTED GENERAL EXHAUST FAN									100	0.3	0.02	1/15	1593
GEF-5	GREENHECK	G-090-VG	ROOF MOUNTED GENERAL EXHAUST FAN									600	0.4	0.06	1/10	1646
GEF-6	GREEMJECL	G-140-VG	ROOF MOUNTED GENERAL EXHAUST FAN									1200	0.3	0.13	1/4	854
GEF-7	GREENHECK	G-070-VG	ROOF MOUNTED GENERAL EXHAUST FAN									290	0.3	0.03	1/15	1677
GEF-9	GREENHECK	G-060-VG	ROOF MOUNTED GENERAL EXHAUST FAN									100	0.25	0.01	1/15	1487
TEF-1	GREENHECK	G-060-VG	ROOF MOUNTED TOILET EXHAUST FAN									100	0.3	0.02	1/15	1593
TEF-2	GREENHECK	G-120-VG	ROOF MOUNTED TOILET EXHAUST FAN									900	0.4	0.1	1/4	1033
H-1	BROAN	E5490SS	RANGE HOOD									550				
CH-1	VULCAN	RW-1120-08	HOT WATER SEMI-RECESSED CABINET HEATER									860			1/10	1050
HC-T-2	JCI	BA0100822	DUCT MOUNTED HOT WATER REHEAT COIL													
HC-U-1	JCI	BA0100820	DUCT MOUNTED HOT WATER REHEAT COIL													
HC-U-4	JCI	BA0100820	DUCT MOUNTED HOT WATER REHEAT COIL													

TAG	DX COOLING EQUIPMENT/COIL DATA: MBH	SHC	EDB	EWB	LDB	LWB	CAT	STAGES	CHILLED WATER COOLING EQUIPMENT/COIL DATA: MBH	SHC	GPM	EDB	EWB	LDB	LWB	EWT	LWT	MAX APD	WPD
AH-T-1									595	367	117.6	79.5	67.8	53.1	52.5	42	52	5	15
AH-T-2									205	133	40.6	80.9	67	50.7	49.8	42	52	5	15
AH-T-3									299	190	59.4	80.4	67.2	52.9	51.5	42	52	5	15
AH-U-1									375	261	74	78.3	65	53.6	51.9	42	52	5	15
AH-U-4									288	193	57.5	79.6	66	51.4	50.4	42	52	5	15
AH-U-5									249	165	49.5	79.5	66.6	52.6	51.8	42	52	5	15
RT-1	60	47.1	75	62	53.7	51.6	95	MOD											
CU-1	27							1											

TAG	HOT WATER HEATING EQUIPMENT/COIL DATA: CFM	MBH (OUT)	GPM	EAT	LAT	EWT	LWT	MAX APD	MAX WPD	ELECTRIC HEATING EQUIP./COIL DATA: KW	EAT	LAT	STEPS
AH-T-1	13100	803	82.3	13.8	65.8	180	160	5	10				
AH-T-2	4100	206	21.1	43.9	89.1	180	160	5	10				
AH-T-3	6450	343	35.1	22.1	68	180	160	5	10				
AH-U-1	10000	407	41.9	55.7	93.2	180	160	5	10				
AH-U-4	6500	320	32.7	49.8	94.7	180	160	5	10				
AH-U-5	5800	363	37.3	20.7	74.6	180	160	5	10				
RT-1										20	70	100.6	MOD
CU-1													

TAG	ELECTRICAL DATA: LOAD: HP	MCA	FLA	MOCP	VOLT	PHASE	HZ	STARTER: PROV. BY: M.C.	E.C.	UNITS CONTROLLED BY	EQUIP WEIGHT	REMARKS
AH-T-1	15		20.4	30	480	3	60	X		EX. FMS	5295	NOTE 1
AH-T-2	6		7.9	15	480	3	60	X		EX. FMS	2350	NOTE 1
AH-T-3	10		12.3	15	480	3	60	X		EX. FMS	3015	NOTE 1
AH-U-1	10		13.7	20	480	3	60	X		EX. FMS	4196	NOTE 1
AH-U-4	10		13.7	20	480	3	60	X		EX. FMS	3219	NOTE 1
AH-U-5	10		12.3	15	480	3	60	X		EX. FMS	3094	NOTE 1
RT-1			28	35	480	3	60	X		EX. FMS	1300	NOTE 8
CU-1		20.1		25	208	1	60	X		EX. FMS	120	NOTE 9
GEF-1			1.3	15	120	1	60		X	EX. FMS	48	NOTE 2
GEF-2			1.5	15	120	1	60		X	EX. FMS	60	NOTE 2
GEF-3			1.5	15	120	1	60		X	EX. FMS	60	NOTE 2
GEF-4			1.3	15	120	1	60		X	EX. FMS	45	NOTE 2
GEF-5			1.5	15	120	1	60		X	EX. FMS	60	NOTE 2
GEF-6			3.8	15	120	1	60		X	EX. FMS	100	NOTE 2
GEF-7			1.3	15	120	1	60		X	EX. FMS	48	NOTE 2
GEF-9			1.3	15	120	1	60		X	REVERSE ACT'G TSTAT	45	NOTE 2
TEF-1			1.3	15	120	1	60		X	EX. FMS	45	NOTE 2
TEF-2			3.8	15	120	1	60		X	EX. FMS	90	NOTE 2
H-1			3.56	15	120	1	60	X		INTEGRAL SWITCH		NOTE 3
CH-1			2.2	15	120	1	60	X		EX. FMS	175	NOTE 4
HC-T-2											42	NOTE 5
HC-U-1											75	NOTE 6
HC-U-4											55	NOTE 7

AD-03

NOTES:

1. SEE SECTIONS FOR MODULAR SECTION REQUIREMENTS. PREHEATING COIL DATA FOR VAV UNITS IS BASED ON MINIMUM OUTSIDE AIR CFM (MAXIMUM VALUE)

   PROVIDE 3" BASE RAIL FOR AH U-4. CONTRACTOR TO PROVIDE ADDITIONAL 3" BASE RAIL IN FIELD FOR APPROPRIATE CD TRAP DEPTH.

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. PROVIDE WITH:
   - DISCONNECT SWITCH
   - ECM MOTOR WITH POTENTIOMETER SPEED CONTROLLER
   - MOTORIZED DAMPER
   - BIRD SCREEN
   - ROOF CURB - SEE SHEET M-201 FOR ROOF CURB ADAPTER REQUIREMENTS.
   - GEF-9 INTERLOCKED TO RT-1

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

3. PROVIDE WITH:
   - BACK DRAFT DAMPER
   - WASHABLE ALUMINUM FILTERS
   - LIGHT SWITCH
   - INTEGRAL EXHAUST FAN

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

4. PROVIDE WITH:
   - INTEGRAL THERMOSTAT
   - DISCONNECT SWITCH

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

5. PROVIDE WITH:
   - FIN DIMENSIONS: 42"W. x 22.5"H.
   - FLUID VELOCITY: 621 FPM

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

6. PROVIDE WITH:
   - FIN DIMENSIONS: 110"W. x 20"H.
   - FLUID VELOCITY: 654 FPM

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

7. PROVIDE WITH:
   - FIN DIMENSIONS: 72"W. x 20"H.
   - FLUID VELOCITY: 650 FPM

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

8. (ALTERNATE) PROVIDE WITH:
   - INTEGRATED ECONOMIZER WITH DIFFERENTIAL ENTHALPY SENSORS
   - FEEDBACK SIGNAL w/ IECC 2015 COMPLIANT LOW LEAK ECONOMIZER DAMPER
   - DIGITAL SCROLL (LEAD ONLY) OR VARIABLE SPEED COMPRESSORS
   - S/A & POW EXH DIRECT DRIVE FANS W/VFD
   - NON-FUSED DISCONNECT SWITCH
   - SHORT CIRCUIT RATING 35 K
   - PHASE & BROWN-OUT PROTECTION
   - HINGED ACCESS DOORS
   - VIBRATION ISOLATION CURB w/ HUSHCORE DECK DS-52 ACOUSTICAL TREATMENT
   - BAROMETRIC RELIEF
   - MODULATING SCR ELECTRIC HEAT
   - STAINLESS STEEL HEAT EXCHANGER
   - METAL MESH OUTSIDE AIR INTAKE HOOD FILTER
   - CONDENSER FAN w/VFD FOR HEAD PRESSURE CONTROL
   - SITE GLASS
   - SINGLE ZONE VAV HEATING & COOLING
   - HAIL CONDENSER COIL GUARD PROTECTION
   - SUPPLY FAN MINIMUM SPEED: 30% COOLING
   - FILTERS: 4" MERV 13 & 2" MERV 8

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

9. PROVIDE INDOOR AC WITH:
   - WIRED THERMOSTAT
   - CONDENSATE PUMP
   - VIBRATION ISOLATION HANGERS

   PROVIDE OUTDOOR CU WITH:
   - LOW AMBIENT CONTROLS FOR 100% COOLING CAPACITY DOWN TO -10°F
   - 18" HIGH EQUIPMENT SUPPORT RAILS WITH SPRING ISOLATORS

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

AD-03

GAS CONNECTION SCHEDULE

TAG	QUANTITY	DESCRIPTION	LOCATION	CAPACITY PER UNIT	TOTAL CAPACITY
23	6	RANGE	CULINARY LAB 1	225	1350
23.1	1	BROILER	CULINARY LAB 1	40	40
24	2	EXISTING COMBI OVEN-STEAMER	CULINARY LAB 1	120	240
24.1	1	EXISTING COMBI OVEN-STEAMER	CULINARY LAB 1	120	120
43	1	STACKING COMBI OVEN-STEAMERS	CULINARY LAB 3	78	78
43.1	1	COMBI OVEN-STEAMER	CULINARY LAB 3	170	170
58	1	EXISTING GAS TILTING SKILLET	CULINARY LAB 1	125	125
	1	EXISTING DRYER	LAUNDRY/ CUSTODIAL	60	60
	1	RANGE	CULINARY LAB 2	120	120
	2	EXISTING DOMESTIC WATER HEATER	MECHANICAL ROOM T-001	199	398
TOTAL ADJUSTED LOAD @ 6" W.C.:					2701

VAV TERMINAL SCHEDULE - HOT WATER REHEAT

TAG	MANUFACTURER	MODEL	MIN. INLET DIA.	ZONE O/A CFM	COOLING CFM: MAX CFM	COOLING CFM: MIN CFM	HW REHEAT COIL DATA: CFM	MBH	EAT	LAT	GPM	MAX APD	MAX WPD	EWT	REMARKS
AH T-1															
T-1A	NAILOR	D30RW	16"	505	1885	505	1176	31.9	55	80	3.2	0.3	5	180	
T-1B	NAILOR	D30RW	14"	505	1585	505	1176	31.9	55	80	3.2	0.3	5	180	
T-1C	NAILOR	D30RW	16"	325	1820	325	811	30.8	55	90	3.1	0.3	5	180	
T-1D	NAILOR	D30RW	16"	325	1820	325	811	30.8	55	90	3.1	0.3	5	180	
T-1E	NAILOR	D30RW	10"	460	740	460	476	12.9	55	80	1.3	0.3	5	180	
T-1F	NAILOR	D30RW	12"	275	1260	275	608	23.1	55	90	2.3	0.3	5	180	
T-1G	NAILOR	D30RW	12"	1120	1000	455	852	23.1	55	80	2.3	0.3	5	180	
T-1H	NAILOR	D30RW	16"	530	2200	530	887	33.7	55	90	3.4	0.3	5	180	
T-1I	NAILOR	D30RW	12"	385	1220	385	608	16.5	55	80	1.7	0.3	5	180	
AH T-3															
T-3A	NAILOR	D30RW	10"	95	890	95	821	31.2	55	90	3.1	0.3	5	180	
T-3B	NAILOR	D30RW	16"	590	2200	590	1571	59.7	55	90	6	0.3	5	180	
T-3C	NAILOR	D30RW	14"	160	1370	160	1369	37.1	55	80	3.7	0.3	5	180	
T-3D	NAILOR	D30RW	16"	270	2110	270	1734	47	55	80	4.7	0.3	5	180	
AH U-5															
U-5A	NAILOR	D30RW	16"	305	2180	305	2180	59.1	55	80	5.9	0.3	5	180	
U-5B	NAILOR	D30RW	16"	680	2160	680	1277	34.7	55	80	3.5	0.3	5	180	
U-5C	NAILOR	D30RW	12"	130	1275	130	1277	34.7	55	80	3.5	0.3	5	180	
U-5D	NAILOR	D30RW	14"	520	1500	520	689	18.7	55	80	1.9	0.3	5	180	

NOTE 1: OPEN/ CLOSE/ OPEN

GRILLE, REGISTER, & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	AIR PATTERN	MOUNTING	SIZE	REMARKS
A2	NAILOR	6500	SUPPLY CEILING DIFFUSER	2-WAY	2' x 2' LAY-IN PANEL	SEE PLANS	"
A4	NAILOR	6500	SUPPLY CEILING DIFFUSER	4-WAY	2' x 2' LAY-IN PANEL	SEE PLANS	"
A8	NAILOR	6500	SUPPLY CEILING DIFFUSER	3-WAY	2' x 1' LAY-IN PANEL	SEE PLANS	"
E1	NAILOR	61DH	SUPPLY CEILING REGISTER	DOUBLE DEFLECTION	2' X 1' LAY-IN PANEL		
E2	NAILOR	61DH	SUPPLY REGISTER	DOUBLE DEFLECTION	SURFACE-MOUNTED	SEE PLANS	
R1	NAILOR	6145H	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	LAY-IN PANEL	SEE PLANS	"
R2	NAILOR	6145H-O	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	SURFACE-MOUNTED	SEE PLANS	"
T1	NAILOR	6145H	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	LAY-IN PANEL	SEE PLANS	"
T2	NAILOR	6145H	RETURN/EXHAUST/T.A. GRILLE	LOUVERED GRILLE	SURFACE-MOUNTED	SEE PLANS	"

GIBRALTAR DESIGN
ARCHITECTURE - ENGINEERING - INTERIOR DESIGN

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PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
RH
DRAWN BY
RC
CHECKED BY
DJ

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

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01
AD-03	08/06/26	ADDENDUM 03

DRAWING
MECHANCIAL SCHEDULES

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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GENERAL NOTES

A. WORK SHALL COMPLY WITH LOCAL, STATE AND NATIONAL ELECTRIC CODES, AND AMERICANS WITH DISABILITIES ACT.

B. THE PANEL SCHEDULES ARE PROVIDED FOR ASSISTANCE ONLY IN UNDERSTANDING THE LOADING ON THE VARIOUS CIRCUITS AND THE CIRCUIT DESIGNATIONS DESIRED FOR THE PANEL DIRECTORIES. THE PANEL SCHEDULES MUST BE BALANCED UPON COMPLETION OF THE PROJECT TO COMPLY WITH CODE. IN ADDITION, THE PANEL SCHEDULES DO NOT IDENTIFY THE TYPES OF CIRCUIT BREAKERS TO BE USED (SUCH AS GFCI, HACR, SHUNT TRIP UNITS, ETC.) NOR DO THE SCHEDULES IDENTIFY CIRCUIT BREAKERS REQUIRED. (SUCH AS C/B'S FEEDING SURGE PROTECTION UNITS). REFER TO THE REST OF THE DRAWINGS AND THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND DETAILED INFORMATION.

C. COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS (VOLTAGES, PHASE, LOAD, ETC.) TO AVOID CONFLICTS.

D. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL ELECTRICAL INFORMATION AND REQUIREMENTS. IN ALL CASES DEVICE MOUNTING HEIGHTS AND LOCATIONS SHALL CONFORM TO THE LATEST AMERICANS WITH DISABILITIES FEDERAL STANDARDS.

E. EXCAVATION NECESSARY FOR COMPLETION OF WORK SHALL BE PROVIDED. COORDINATE WITH ONE ANOTHER TO SHARE TRENCHES WHEREVER POSSIBLE.

F. REFER TO THE PLANS FOR ADDITIONAL ELECTRICAL WORK AND REQUIREMENTS. FURNISH, INSTALL AND LOCATE DISCONNECT SWITCHES AT EQUIPMENT/MOTOR LOCATION, AS REQUIRED, AND IN ACCORDANCE WITH CODE. IF THE WORK OF OTHER TRADES CAUSES A LOSS OF CONTINUITY OF THE EXISTING ELECTRICAL DISTRIBUTION, GROUNDING SYSTEM OR CIRCUITRY, IT SHALL BE RECONNECTED OR REPAIRED AT NO ADDITIONAL COST.

G. 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

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

I. SCHEDULE 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. REQUIRED SHUTDOWN OF EXISTING FACILITY UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL.

J. LAYOUT IS DIAGRAMMATIC AND INSTALL DEVICES, CONDUIT AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS. REVIEW PROJECT SPECIFICATIONS BEFORE STARTING WORK AND SUBMIT COMPLETE SHOP DRAWINGS AS PER SPECIFICATIONS.

K. VISIT SITE PRIOR TO BID TO DETERMINE AND VERIFY EXISTING INTERIOR AND EXTERIOR ELECTRICAL SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE FULL EXTENT OF WORK. INCLUDE THE NECESSARY MODIFICATIONS TO THE EXISTING CONDITIONS (INCLUDING CEILINGS, WALLS, FLOORS, PIPES, CONDUIT, ROOF WORK, ETC.) AS REQUIRED, TO ALLOW FOR PROPER INSTALLATION OF WORK. ADJUST INSTALLATIONS TO MEET FIELD CONDITIONS AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED. EXISTING EQUIPMENT, CONDUIT, PIPING, ETC. SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK.

L. HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO ATTENTION IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL REQUIRE THE CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION TO BE COMPLETED AT NO COST. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE BROUGHT TO ATTENTION FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.

M. REMOVE AND REINSTALL EXISTING CEILINGS NOT BEING REPLACED (INCLUDING LIGHTS, MOTION SENSORS, FIRE ALARM DEVICES AND ANY OTHER ELECTRICAL DEVICES AS REQUIRED.) WHERE NECESSARY TO PERFORM WORK. THIS ALSO INCLUDES EXISTING CEILINGS OF PLASTER, DRYWALL, ETC. COORDINATE WORK IN CEILING SPACE SO AS TO MINIMIZE THE AMOUNT OF CEILINGS WHICH MUST BE REMOVED AND REINSTALLED. REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS IN ORDER TO FULLY UNDERSTAND AND INCLUDE CEILING WORK NECESSARY FOR WORK ON THE PROJECT. WHEN THE WORK IS COMPLETED IN THE SPACE, REINSTALL OR PATCH EXISTING CEILINGS, REINSTALL DEVICES AND EQUIPMENT AND REPAIR DAMAGE AS REQUIRED TO COMPLETELY MATCH EXISTING CONDITIONS. REPAIR OR REPLACE ANY DAMAGE CAUSED TO EXISTING CEILING AREAS.

N. REMOVE EXISTING CONSTRUCTION AS REQUIRED AT EXISTING WALLS, FLOORS, PIPE CHASES, SURFACES, FINISHES, ETC. WHICH ARE AFFECTED. REPAIR EXISTING SURFACES AFFECTED, TO MATCH EXISTING SURFACE OF EQUAL OR BETTER QUALITY TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

O. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. RELOCATE EXISTING LIGHTING, CONDUIT, EQUIPMENT, ETC., AS NECESSARY FOR NEW INSTALLATIONS.

P. PROVIDE NEW PANEL DIRECTORIES IN EXISTING MODIFIED PANELBOARDS AND NEW PANELBOARDS TO CORRECTLY IDENTIFY EXISTING AND NEW LOADS. FINAL DIRECTORIES SHALL BE TYPE WRITTEN.

Q. EXISTING LIGHTING FIXTURES, ELECTRICAL DEVICES, CONDUIT, ETC., SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK. 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.

R. PERFORM CUTTING AND PATCHING OF EXISTING FLOOR SLABS AND WALLS AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL SYSTEMS.

S. EXISTING ELECTRICAL DEVICES (RECEPTACLES, SWITCHES, OUTLET BOXES, CONDUIT, ETC.) WITHIN WALLS TO BE REMOVED SHALL BE DISCONNECTED COMPLETELY. REROUTE AND EXTEND EXISTING CIRCUITRY, ELECTRICAL FEEDERS AND GROUNDING SYSTEMS AS REQUIRED TO MAINTAIN CIRCUIT, FEEDER AND GROUNDING SYSTEM INTEGRITY FOR ALL REMAINING DEVICES/EQUIPMENT. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.

T. WHERE NEW CIRCUIT BREAKERS, FUSES AND SWITCHES ARE TO BE ADDED TO EXISTING PANELBOARDS, SWITCHBOARDS, ETC., THEY SHALL BE OF THE SAME MANUFACTURER AND DESIGN AS THE EXISTING BREAKERS OR SWITCHES IF NOT OBSOLETE AND SHALL BE OF THE SIZES AS INDICATED. REARRANGE CIRCUIT BREAKERS WITHIN THE EXISTING EQUIPMENT TO ACCOMMODATE THE NEW CIRCUIT BREAKERS OR SWITCHES. BRANCH CIRCUIT NUMBERS ASSIGNED TO EXISTING PANELBOARDS ARE ARBITRARY AND ARE INTENDED TO INDICATE BRANCH CIRCUIT REQUIREMENTS ONLY. ACTUAL PANEL NUMBER ASSIGNMENTS FOR DESIGNATED BRANCH CIRCUITS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS. PROVIDE ADDITIONAL BUS, BUS EXTENSION, BOLTS AND HARDWARE, ENCLOSURE MODIFICATIONS, DIRECTORY MODIFICATIONS, ETC., AS REQUIRED TO ACCOMPLISH THE WORK.

U. WIRE FIXTURES IN TANDEM AS REQUIRED TO ACCOMPLISH THE SWITCHING ARRANGEMENT AS INDICATED ON DRAWINGS.

V. VERIFY CEILING STYLES/FRAMES AND TYPES BEFORE ORDERING FIXTURES AND CEILING MOUNTED DEVICES. PROVIDE APPROPRIATE STYLES/FRAMES AS REQUIRED TO MATCH CEILING STYLE AND TYPES.

W. COORDINATE LIGHTING LAYOUTS WITH CEILING REGISTERS, GRILLES, DIFFUSERS, SPRINKLER HEADS AND CEILING GRID (SEE ARCHITECTURAL REFLECTED CEILING PLAN.) VERIFY LOCATION WITH OWNER'S REPRESENTATIVE IN FIELD PRIOR TO INSTALLATION.

X. PROVIDE PLENUM RATED LIGHT FIXTURES IN PLENUM CEILING AREAS WHERE REQUIRED BY LOCAL OR NATIONAL CODES.

Y. SOME CEILING SPACES ARE RETURN AIR PLENUMS. EXAMINE PLENUM BEFORE CEILING IS INSTALLED (OR REPLACED) AND SEAL ALL OPENINGS AROUND CONDUIT, CABLE, ETC. PROVIDE PLENUM RATED CABLE (UNLESS IN CONDUIT), DEVICES AND EQUIPMENT PER CODE.

Z. AIM AND ADJUST FIXTURES WITH ADJUSTMENT CAPABILITIES (I.E. TRACK LIGHTING, HIGH BAY LIGHTING, EXTERIOR FIXTURES, ETC.) TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

AA. THE MINIMUM DISTANCE BETWEEN SMOKE OR HEAT DETECTORS AND CEILING MOUNTED SUPPLY DIFFUSERS SHALL BE A MINIMUM OF 4 FEET AND WALL MOUNTED DIFUSERS SHALL BE 10 FEET.

BB. WHERE INDICATED ON THE DRAWINGS IN UNFINISHED SPACES, RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALL.

CC. NO RACEWAYS SHALL BE INSTALLED WITHIN 6" OF STEAM, HOT WATER PIPES OR SIMILAR HEAT PRODUCING APPLIANCES.

DD. PROVIDE PULL WIRE IN EACH RACEWAY IN WHICH WIRING IS NOT INSTALLED.

EE. COVERS OF JUNCTION OR PULL BOXES SHALL BE ACCESSIBLE AND IDENTIFIED PER SPECIFICATIONS. FIRE ALARM JUNCTION BOXES SHALL BE PAINTED RED. JUNCTION OR PULL BOXES AND THE LIKE SHALL BE INDEPENDENTLY SUPPORTED TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.

FF. WIRE COLOR CODING SHALL BE COORDINATED THROUGHOUT THE ENTIRE PROJECT/BUILDING FOR NEW AND EXISTING SYSTEMS.

GG. IF MORE THAN THREE (3) PHASE (UNGROUNDED) CONDUCTORS ARE RUN IN THE SAME RACEWAY, CONDUCTOR AMPACITY SHALL BE DERATED IN ACCORDANCE WITH NEC ARTICLE 310.

HH. CONDUIT, LIGHTING, EQUIPMENT, ETC. SHALL NOT BE SUPPORTED FROM THE BOTTOM CHORD OF ENGINEERED JOISTS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. CONDUITS, ROUTED THROUGH AREAS WITH NO CEILING, SHALL BE ROUTED WITHIN THE WEBBING OF THE JOISTS AND SHALL NOT BE ROUTED BELOW THE BOTTOM CHORD OF THE JOIST.

II. SMOKE OR HEAT DETECTORS SHALL BE SURFACE MOUNTED TO CEILING, ROOF DECK MATERIALS, ETC. IN LIEU OF MOUNTING TO BOTTOM CHORD OF ENGINEERED JOIST OR ANY OTHER COMPONENTS NOT AN INTEGRAL PART OF THE HORIZONTAL CEILING.

JJ. VERIFY EXISTING AND NEW MECHANICAL, ELECTRICAL, FIRE PROTECTION SYSTEMS AND MEDICAL GAS SERVICES PRIOR TO START OF NEW CONSTRUCTION. COORDINATE AND ADJUST NEW WORK AS REQUIRED TO AVOID CONFLICTS WITH EXISTING SERVICES AND NEW SERVICES PROVIDED.

KK. PROVIDE NECESSARY ROOFING COMPONENTS COMPATIBLE WITH EXISTING ROOFING SYSTEMS TO PROVIDE A WEATHERTIGHT INSTALLATION FOR THE ROOF PENETRATIONS AND ABANDONED HOLES FROM REMOVED ITEMS. PATCH ROOF OPENINGS FOR REMOVED PIPE PENETRATIONS, WITH RIGID ROOF INSULATION AND ROOF DECK MATERIAL FROM BELOW ROOF TO MATCH EXISTING ADJACENT MATERIALS. PROPERLY STRIP ROOFING MEMBRANE, ETC. AS REQUIRED, TO MATCH EXISTING ROOF SYSTEM WITH PROPER AND COMPATIBLE MATERIALS. PROVIDE A COMPLETE AND PROPER WEATHERTIGHT CONDITION.

LL. ROOF SUPPORTS FOR CONDUITS TO BE EQUIVALENT TO PORTABLE PIPE HANGER, INC. TYPE PP-10, WITH ROLLER GUIDE SUPPORT FOR SINGLE PIPES AND CHANNEL GUIDE SUPPORT FOR MULTIPLE PIPES. SUPPORTS TO HAVE HIGH DENSITY POLYPROPYLENE PLASTIC BASE WITH THREADED RODS FOR ADJUSTABLE HEIGHT ROLLER. SUPPORTS ARE TO SIT ON TOP OF ROOFING MEMBRANE. SUPPORTS ARE TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION AND TO BE COMPATIBLE WITH AND MAINTAIN THE INTEGRITY OF THE EXISTING OR NEW ROOF SYSTEM. WHERE CONDUITS AND WIRING ARE RUN IN EXTERIOR LOCATIONS OR EXPOSED TO SUNLIGHT, CONDUCTORS SHALL BE PROPERLY UPSIZED PER NEC 310.

MM. WIRING DEVICES SHOWN BACK-TO-BACK IN WALLS SHALL BE SEPARATED BY 8" MINIMUM.

NN. UNLESS OTHERWISE NOTED, DEVICE ELEVATIONS REFER TO CENTER LINE OF JUNCTION BOX. VERIFY JUNCTION BOX LOCATIONS WITH FINAL EQUIPMENT LAYOUT PRIOR TO ROUGHING IN SAME.

OO. FURNISH AND INSTALL A GREEN GROUND WIRE IN POWER CONDUITS (NOT LIGHTING). ALL DEVICES, EQUIPMENT, FIXTURES AND THE LIKE, MUST BE GROUNDED. MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL BE MAINTAINED.

PP. PROVIDE CONDUIT AND WIRE AND MAKE FINAL POWER CONNECTIONS AS REQUIRED TO EXHAUST FANS AND MISCELLANEOUS EQUIPMENT FURNISHED WITH MOTORIZED BACKDRAFT DAMPERS. DAMPERS SHALL BE CONNECTED TO EQUIPMENT 120 VOLT POWER CIRCUIT SO AS TO INTERLOCK THE MOTORIZED DAMPER WITH THE EXHAUST FAN. FOR THREE PHASE MOTORS, PROVIDE AN ADDITIONAL 120 VOLT CIRCUIT ROUTED THROUGH AN AUXILIARY CONTACT IN THE MOTOR STARTER.

QQ. AT NEW FIRE OR SMOKE/FIRE DAMPER LOCATIONS, WIRE EACH SMOKE/FIRE DAMPER TO NEAREST EMERGENCY PANEL, TO LOCAL ACTIVATION SMOKE DETECTORS ON EITHER SIDE OF THE DAMPER (WITHIN 3'-0") AND ALSO WIRE THE SAME TO THE FIRE ALARM CONTROL PANEL AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR LOCATIONS WHERE DUCTS PASS THROUGH SMOKE OR FIRE BARRIERS.

RR. MODIFY EXISTING FIRE ALARM SYSTEM AS INDICATED ON DRAWINGS AND SPECIFICATIONS AND AS REQUIRED FOR A COMPLETE, CODE COMPLIANT INSTALLATION. PROVIDE ADDITIONAL PARTS, ACCESSORIES AND CARDS AS REQUIRED TO COMPLETE THE WORK. FURNISH AND INSTALL INTERFACE WIRING INTEGRAL TO THE FIRE ALARM SYSTEM AS WELL AS INTERFACE TO NEW ELEVATOR CONTROL PANEL, BUILDING AUTOMATION SYSTEM, ETC. FOR A COMPLETE AND OPERATING INSTALLATION. 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. QUESTIONS REGARDING THE REQUIREMENTS OF THE FIRE ALARM SYSTEM OR THE INTENT OF THE CODE SHALL BE DIRECTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO BID.

SS. FURNISH AND INSTALL SIX (6) 20 AMP. CIRCUITS WITH RECEPTACLES, CONDUIT, WIRE, PLATES, BOXES AND BREAKERS CONNECTED WITH THREE (3) #10, ONE (1) #12 GROUND IN 1" CONDUIT LOCATED WITHIN 120 FEET (AVERAGE) OF NEAREST 208/120 PANELBOARD. INCLUDE ALL NECESSARY CUTTING AND PATCHING. LOCATIONS OF OUTLETS SHALL BE WHEN, WHERE AND AS DIRECTED.

TT. WIRE COMPLETE, AS DIRECTED, TWO (2) ADDITIONAL MOTORS AND SINGLE POLE FUSIBLE DISCONNECTS WITH THREE (3) #12 IN 3/4" CONDUIT 120 FEET (AVERAGE) EACH CIRCUIT.

UU. PROVIDE AND WIRE COMPLETE, WHERE DIRECTED TWO (2) ADDITIONAL EXIT SIGNS (XB-1 OR XB-2) TO NEAREST LIGHTING CIRCUIT IN SAME AREA. CONNECT WITH THREE (3) #12 WIRE IN 3/4" CONDUIT.

VV. CONDUIT INSTALLED FOR LOW VOLTAGE SYSTEMS SHALL BE COORDINATED WITH THE LOW VOLTAGE INSTALLER IN FIELD, PRIOR TO ROUGH-IN. SUCH CONDUIT SHALL BE ROUTED TO MINIMIZE CABLE LENGTH AND COMPLY WITH LOW VOLTAGE CABLING DISTANCE LIMITATIONS.

WW. THE FLASH RATES FOR FIRE ALARM STROBES SHALL BE SYNCHRONIZED, COORDINATE ADDITIONAL REQUIREMENTS WITH NFPA 72.

XX. REWORK EXISTING ELECTRICAL FEEDERS, CONDUIT AND LOW VOLTAGE WIRING AS REQUIRED FOR INSTALLATION OF NEW STRUCTURAL COMPONENTS REQUIRED TO SUPPORT NEW ROOF MOUNTED EQUIPMENT. FURNISH AND INSTALL ALL CONDUIT, WIRING AND SPLICE BOXES TO MAINTAIN CONTINUITY.

YY. SINGLE POLE CIRCUITS SHALL HAVE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS (NON-NETWORKED), WHICH (PER CODE) ARE CONSIDERED CURRENT CARRYING CONDUCTORS. THEREFORE, IF MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE RUN IN THE SAME RACEWAY, CONDUCTOR AMPACITY SHALL BE DERATED IN ACCORDANCE WITH NEC ARTICLE 310. AS SUCH, MULTIPLE BRANCH CIRCUIT HOME RUNS SHALL, AT A MINIMUM, UTILIZE #10 AWG CONDUCTORS TO COMPLY WITH REQUIREMENTS HEREIN. COORDINATE REQUIREMENTS IN FIELD WITH SPECIFIC HOME RUN CONFIGURATION AND NEC 2008.

ZZ. PRIOR TO THE START OF WORK AND THE ORDERING OF EQUIPMENT, CONTRACTOR SHALL CAREFULLY MEASURE AND VERIFY THE VOLTAGE, PHASE AND WIRING CONFIGURATION OF EXISTING PANELS AND EXISTING GEAR THAT ARE PART OF WORK AND SHALL CAREFULLY VERIFY THAT ALL ELECTRICAL CONNECTIONS, GEAR AND EQUIPMENT HAVE BEEN CAREFULLY COORDINATED TO ELIMINATE CONFLICTS. COORDINATE WITH OTHER TRADES AS REQUIRED TO ELIMINATE ELECTRICAL CONFLICTS PRIOR TO START OF WORK.

AAA. CAREFULLY VERIFY COLOR TEMPERATURES OF FIXTURES WITH ARCHITECT PRIOR TO ORDERING.

ABBREVIATIONS LIST

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

WM — WIRE MOLD SURFACE RACEWAY COMPLETE WITH ALL ACCESSORIES

WIREMOLD #V4000 RACEWAY VERTICAL RISER. SEE DETAIL

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

SECURITY

CA — CARD ACCESS CONTROLLER -REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

L — ELECTRIC DOOR STRIKE - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

SURVEILLANCE CAMERA - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

SURVEILLANCE CAMERA - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

DC — SECURITY SYSTEM DOOR CONTACT - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

WP — EXTERIOR 180 DEGREE SURVEILLANCE CAMERA - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

DIS — DISPLAY CAMERA - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

COMMUNICATIONS

S — CEILING SPEAKERS - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

DUPLEX DATA OUTLET - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

WALL MOUNTED DIGITAL CLOCK/SPEAKER UNIT- REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION

WT — DUPLEX DATA OUTLET FOR WIRELESS ACCESS POINTS - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

INTERCOM PRIVACY CALL-IN SWITCH - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

WH — CARD ACCESS WIRELESS HUB - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

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

$ TP — TOUCH SCREEN CONTROL FOR LIGHTING SCENE SELECTOR - nPOD nTS OR EQUAL BY COOPER OR HUBBELL CONTROLS.

AD-03

$ MO — CLASSROOM LIGHTING OVERRIDE SWITCH - 120V TOGGLE SWITCH TO OVERRIDE ALL LIGHTING CONTROLS IN THE CLASSROOMS TO ALLOW LIGHTING SHUT OFF WITHOUT AUTOMATIC ON UNTIL THIS SWITCH HAS BEEN TOGGLED 'ON'. PROVIDE AN ADDITIONAL POWER PACK CONNECTED TO THIS SWITCH THAT IS AFTER THE POWER PACKS CONNECTED TO THE LOW VOLTAGE SWITCHING AND SENSORS SO THEY DO NOT LOSE POWER DURING THE OVERRIDE. LABEL SWITCH 'CLASSROOM OVERRIDE' WITH A TYPE WRITTEN LABEL.

$ — NETWORKED LOW VOLTAGE SWITCH MTD 42" AFF: N-LIGHT N-PODM SERIES OR EQUAL BY COOPER OR HUBBELL CONTROLS.

$ 3 — NETWORKED 3-WAY LOW VOLTAGE SWITCH MTD 42" AFF: N-LIGHT N-PODM SERIES WITH 3-WAY CAPABILITY OR EQUAL BY COOPER OR HUBBELL CONTROLS.

$ M1 — FURNISH AND INSTALL NETWORKED WALL SWITCH DUAL TECHNOLOGY OCCUPANCY SENSOR MTD 42" AFF: N-LIGHT #NWSX-PDT-LV OR APPROVED EQUAL BY COOPER OR HUBBELL CONTROLS.

WALL MOUNTED NETWORKED DIMMER SWITCH MTD 42" AFF: N-LIGHT, COOPER OR HUBBELL CONTROLS. VERIFY SUITABILITY OF DIMMER WITH FIXTURE MANUFACTURER PRIOR TO ORDERING.

M3 — FURNISH AND INSTALL NETWORKED CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR: N-LIGHT #NCM-PDT-10 (WITH MICROPHONICS) OR APPROVED EQUAL BY COOPER OR HUBBELL CONTROLS.

$ 4 — NETWORKED FOUR WAY LOW VOLTAGE SWITCH MTD. 42" AFF: N-LIGHT N-PODM SERIES WITH 4-WAY CAPABILITY OR EQUAL BY COOPER OR HUBBELL CONTROLS.

$ K — KEY OPERATED TOGGLE TYPE SWITCH (HUBBELL #HBL1221L OR EQUAL)

FIRE ALARM

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

FACP — FIRE ALARM CONTROL PANEL

FIRE ALARM ANNUNCIATOR PANEL

SD D — FIRE ALARM SYSTEM DUCT TYPE SMOKE DETECTOR WIRED TO CONTROL LOCAL FAN SHUT DOWN RELAY - DUCT DETECTOR TO BE MOUNTED IN AIR DUCT SYSTEM AND WIRED PER MANUFACTURER'S RECOMMENDATIONS AND NFPA 72

COD — ADDRESSABLE CARBON MONOXIDE DETECTOR FOR ROOFTOP UNIT TO BE INSTALLED IN DUCT. DEVICE SHALL BE FULLY COMPATIBLE AND U.L. LISTED FOR USE WITH NEW FACP. AT CONTRACTOR'S OPTION, CONTRACTOR SHALL PROVIDE U.L. LISTED ADDRESSABLE CARBON MONOXIDE UNITS LISTED FOR USE WITH NEW FACP LOCATED WITHIN 20' OF ROOFTOP AND IN EVERY SPACE SERVED BY ROOFTOP, COMPLETE AS REQUIRED.

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

FIRE ALARM STROBE ONLY MTD 80" AFF. - 110 CANDELA

FIRE ALARM STROBE ONLY MTD 80" AFF.

D — FIRE ALARM SYSTEM HEAT DETECTOR - COMBINATION TYPE (R/R - FIXED TEMP.) IN BOILER ROOM

SD — FIRE ALARM SYSTEM SMOKE DETECTOR - CEILING MOUNTED - ABOVE FACP

CO — FURNISH AND INSTALL DIGITAL CARBON MONOXIDE SENSING PROBES - MSA Z GARD S SENSORS OR APPROVED EQUAL WITH 3/4"C. AND WIRING ROUTED TO CARBON MONOXIDE CONTROL PANEL. COORDINATE REQUIREMENTS WITH MANUFACTURER AND SPECIFICATIONS. MOUNT UNIT AT 48" A.F.F.

SHEET SYMBOLS

X X — HEXAGON TAG REFERENCE TO EQUIPMENT CONNECTION SCHEDULE

X — HEXAGON TAG REFERENCE TO KITCHEN 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 / NI — 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.

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)

SPECIAL PURPOSE OUTLET (AS NOTED ON PLAN OR SPECIFICATIONS).

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)

WIREMOLD #RFBA4 SERIES FLUSH FLOOR BOX - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION

TEACHER PANEL WITH TWO (2) DUPLEX RECEPTACLES. SEE TEACHER STATION AND PROJECTOR DETAIL FOR ADDITIONAL INFORMATION. REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

FLUSH IN WALL "TV" PANEL - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION

CEILING MOUNTED "TV" PANEL LOCATION WITH ONE (1) DUPLEX RECEPTACLE - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION

WALL MOUNTED PROJECTOR LOCATION - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION

CEILING MOUNTED PROJECTOR LOCATION WITH ONE (1) DUPLEX RECEPTACLE. SUPPORT BOXES FROM STRUCTURE WITH UNISTRUT AS REQUIRED. SEE TEACHER STATION AND PROJECTOR DETAILS FOR ADDITIONAL INFORMATION. REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

R — REEL CORD WITH 25' CORD AND (2) 20A DUPLEX GFCI RECEPTACLE, ERICSON #4224-25SO-BG20 OR EQUAL, COMPLETE WITH BALL STOP, AND ALL OTHER APPURTENANCES NECESSARY FOR A COMPLETE AND PROPER INSTALLATION. MOUNT CORD REEL TO THE CEILING GRID. PROVIDE SUPPORTS AS REQUIRED. VERIFY FINAL CABLE LENGTH AFTER THE BALL STOP IN FIELD WITH OWNER. VERIFY CONDITIONS, REQUIREMENTS AND LOCATIONS IN FIELD PRIOR TO ROUGH-IN.

USB — 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE WITH TWO (2) INTEGRAL USB JACKS. MOUNTED 18" A.F.F. OR AS NOTED. PROVIDE PASS AND SEYMOUR #TR5362US OR APPROVED EQUAL.

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PROJECT 25-181
DATE 07/14/26
COORDINATED BY RH
DRAWN BY BR
CHECKED BY DJ

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

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AD-02	07/31/26	ADDENDUM 02
AD-03	08/06/26	ADDENDUM 03

DRAWING
ELECTRICAL NOTES, SYMBOLS & ABBREVIATIONS

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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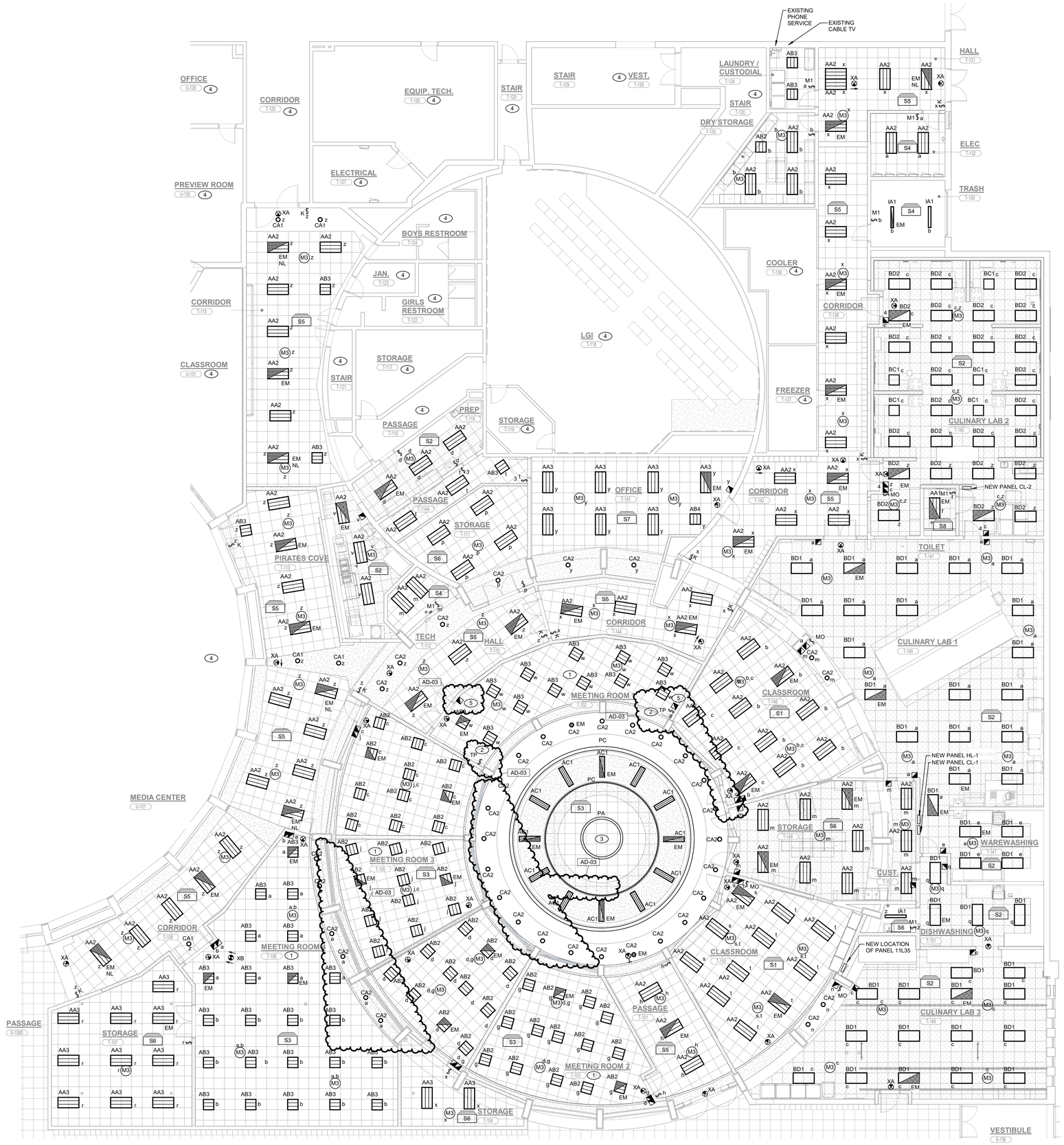


1 EL121 **UNIT "T" ELECTRICAL LIGHTING FIRST FLOOR PLAN**

1/8" = 1'-0"

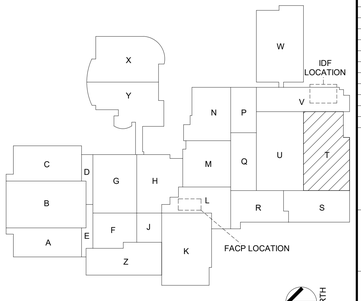
NORTH

SHEET NOTES

1. LIGHTING IN EACH SECTION OF THE MEETING ROOM SHALL BE CONNECTED TO THE LOCAL SWITCHES AND MASTER TOUCH SCREEN AS REQUIRED TO INDIVIDUALLY CONTROL EACH SPACE OR CONTROL THE ENTIRE SPACE FROM THE MAIN TOUCH SCREEN. THE MAIN TOUCH SCREEN SHALL BE PASSWORD PROTECTED AND CAPABLE OF FULL RGBW CONTROLS OF THE PC FIXTURES.
2. NEW MASTER TOUCH SCREEN CONTROL PANEL FOR MEETING AREA.
3. RECESS ALL CONDUIT IN THE DOME CEILING. ALL CONDUIT SHALL BE CONCEALED AND NOT VISIBLE FROM BELOW FOR ALL FIXTURES IN THIS SPACE. PROVIDE PAINTED ACCESS PANELS WHERE REQUIRED. AD-03
4. EXISTING LIGHTING IN THIS SPACE TO REMAIN.
5. NEW DIMMING SWITCHES FOR ALL LIGHTING IN MEETING ROOM 1 (INCLUDING 'W' AND 'h'. PROVIDE (4) WALL MOUNTED OCCUPANCY SENSORS AT LOCATIONS REQUIRED FOR COMPLETE COVERAGE IN THE MEETING ROOM 1 AREA. SENSORS FOR 'w' AND 'h' SHALL CONTROL THE REST OF THE MEETING ROOM AS WELL. AD-03

GENERAL NOTES

1. RECONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITRY AND NEW SWITCHING DEVICES, COMPLETE AS REQUIRED, MAXIMUM 1400W PER 120 VOLT CIRCUIT. WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL AND EXTEND 2 #12 AND 1 #12 GRD IN 3/4" CONDUIT COMPLETE AS REQUIRED. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.



KEY PLAN

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DRAWING
UNIT "T" ELECTRICAL LIGHTING FIRST FLOOR PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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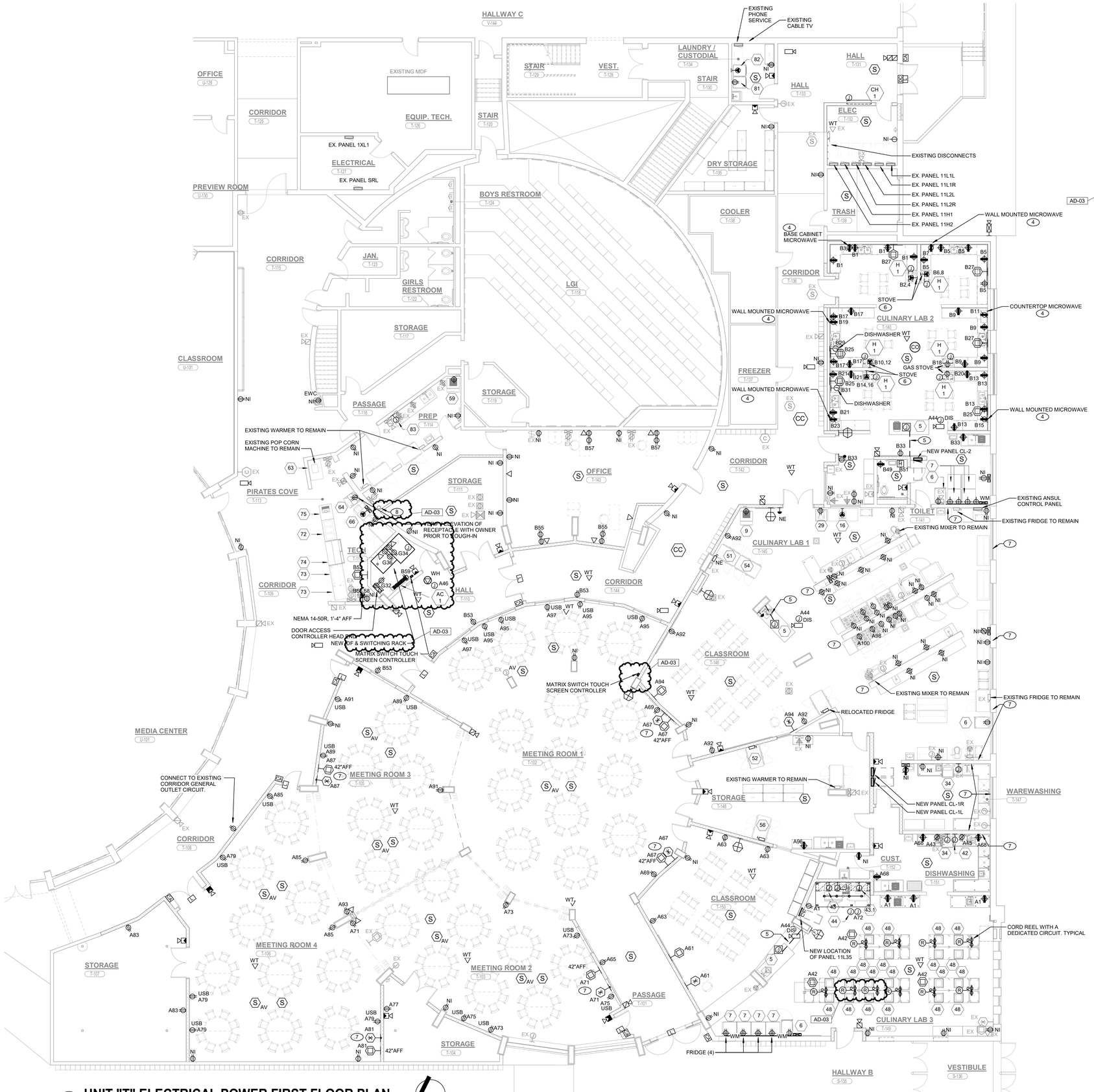


1 EP121 **UNIT "T" ELECTRICAL POWER FIRST FLOOR PLAN**

1/8" = 1'-0"

SHEET NOTES

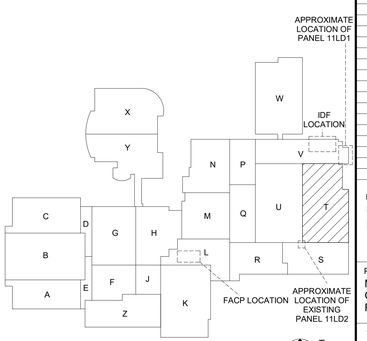
1. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2. THIS LOCATION SHALL BE CONNECTED TO THE SWITCHING MATRIX IN THE MEETING ROOM SOUND CABINET. REFER TO THE LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION.
3. MEETING ROOM AV SYSTEM WITH 10X10 SWITCHING MATRIX. REFER TO LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION.
4. REFER TO ARCHITECTURAL PLANS FOR RECEPTACLE MOUNTING HEIGHT. VERIFY INSTALLATION HEIGHT WITH OWNER PRIOR TO INSTALLATION.
5. SAW CUT EXISTING FLOOR AS REQUIRED TO ROUTE NEW CONDUIT AND WIRING, CONCEALED IN FLOOR, TO NEW DEMONSTRATION TABLE. ROUTE 3/4"C. FOR POWER WIRING DOWN THE WALL AND INTO THE SAW CUT. EXTEND TO THE NEW DEMONSTRATION TABLE AND CONNECT. COMPLETE AS REQUIRED.
6. ROUTE (3) #6 & 1 #10 GRD. IN 1" CONDUIT FROM PANEL CL-2 TO THE NEW DEVICE.
7. REMOVE AND REINSTALL EXISTING DEVICES, RACEWAYS, CONDUIT, BOXES, AND CONDUCTORS ON EXISTING WALL TO ALLOW FOR PATCHING AND PAINTING OF THE ENTIRE WALL, COMPLETE AS REQUIRED. THIS INCLUDES ALL POWER, FIRE ALARM, LOW VOLTAGE, DATA, LIGHTING, ETC DEVICES. ALL REMOVED DEVICES, RACEWAY, ETC SHALL BE PROTECTED AND REINSTALLED MATCHING EXISTING CONDITIONS AT COMPLETION OF THE NEW ARCHITECTURAL WALL WORK.
8. ROUTE ALL CONDUIT FOR THE BACK WALL OF PIRATES COVE DOWN HERE AND THROUGH THE WALL LOW. ROUTE ALL CONDUIT ALONG THE BACK WALL BELOW THE COUNTER TOP.

AD-03

GENERAL NOTES

1. PROVIDE TWO (2) ADDITIONAL CAMERA CONNECTIONS AT LOCATIONS COORDINATED WITH OWNER'S REPRESENTATIVE.
2. CIRCUIT ALL DEVICES WITH PREFIX "A" TO PANEL CL-1. CIRCUIT ALL DEVICES WITH PREFIX "B" TO PANEL CL-2.
3. VERIFY SPECIAL PURPOSE OUTLET NEMA RATING REQUIREMENTS WITH OWNER'S EQUIPMENT PRIOR TO ORDERING. COMPLETE AS REQUIRED.
4. ALL CEILING MOUNTED DEVICES REUIRED INDEPENDENT MOUNTING HARDWARE TO SUPPORT THE DEVICES.

AD-03



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DRAWING
UNIT "T" ELECTRICAL POWER FIRST FLOOR PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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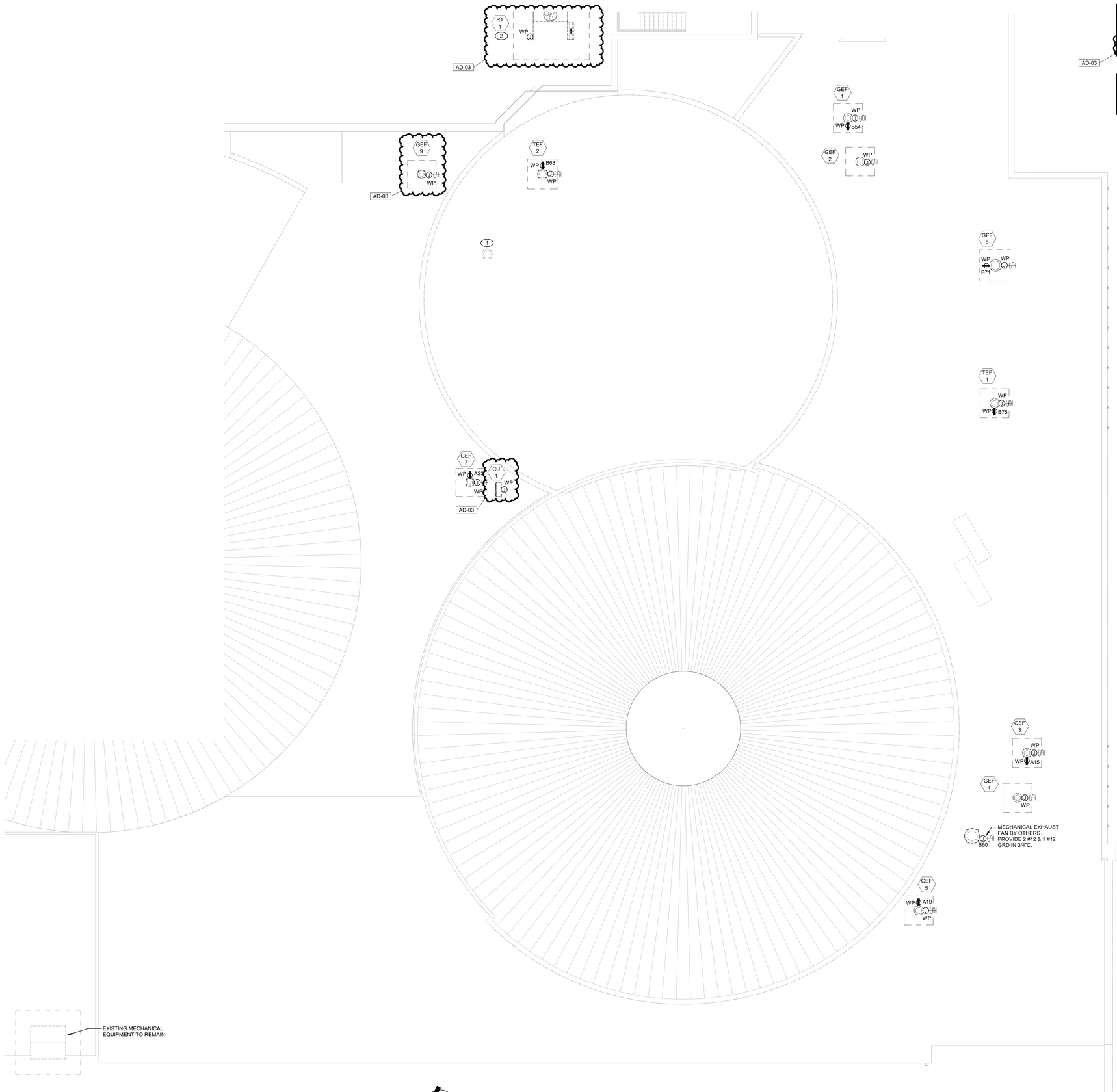


1 EP201 **UNIT "T" ELECTRICAL ROOF PLAN**
1/8" = 1'-0"

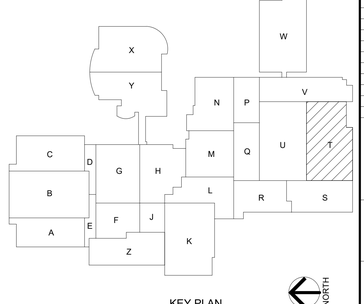
SHEET NOTES

1. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2. MECHANICAL EQUIPMENT IS APART OF ALTERNATE. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.

AD-03

GENERAL NOTES

1. CIRCUIT ALL DEVICES WITH PREFIX "A" TO PANEL CL-1. CIRCUIT ALL DEVICES WITH PREFIX "B" TO PANEL CL-2.



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DRAWING
UNIT "T" ELECTRICAL POWER ROOF PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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FIXTURE GENERAL NOTES

1. INTERIOR FIXTURES, EXTERIOR FIXTURES AND POLE FINISHES AND COLORS TO BE SELECTED BY ARCHITECT. THE ARCHITECT MAY, AT THEIR DISCRETION, CHOOSE A CUSTOM COLOR AT NO ADDITIONAL CHARGE.
2. PENDANT FIXTURES SPECIFIED ON THIS PROJECT SHALL BE CAREFULLY COORDINATED WITH CONTRACT DOCUMENTS AND FIXTURE MANUFACTURER AS EACH PENDANT FIXTURE IS A CUSTOM MANUFACTURED FIXTURE. PROVIDE PENDANT EMERGENCY SECTIONS AND EMERGENCY CIRCUITS AS SHOWN. COORDINATE WITH FIXTURE MANUFACTURER AND PROVIDE ADDITIONAL ACCESSORIES FOR A COMPLETE AND PROPER INSTALLATION. PROVIDE PROPER FIXTURE LENGTH, FEEDS, SINGLE AND DUAL CIRCUITING AND SUSPENSION LENGTH AS SHOWN ON DRAWINGS. PROVIDE FABRICATION DRAWINGS FOR REVIEW AS PART OF THE SHOP DRAWING SUBMITTAL PROCESS.
3. LED FIXTURES (LESS THAN 10000 LUMENS) SHALL BE PROVIDED WITH FACTORY INSTALLED INTEGRAL EMERGENCY BATTERY UNITS BATTERY UNITS SHALL PROVIDE A MINIMUM OF 1400 LUMENS.
4. FIXTURES THAT CANNOT BE PROVIDED WITH EMERGENCY BALLASTS OR FIXTURES WITH GREATER THAN 10000 LUMENS SHALL BE PROVIDED WITH EMERGENCY INVERTER (MYERS #LV SERIES OR APPROVED EQUAL) WITH SUITABLE CAPACITY TO POWER FIXTURE FOR A MINIMUM OF 90 MINUTES PER CODE. VERIFY SIZING AND REQUIREMENTS WITH CONTRACT DOCUMENTS PRIOR TO ORDERING.
5. SHADED FIXTURES SHALL HAVE AN EMERGENCY SOURCE OF POWER AS SPECIFIED.
6. FIXTURES WITH EMERGENCY BATTERIES SHALL BE PROVIDED WITH CONSTANT HOT SENSING WIRE SO THAT FIXTURE CAN BE SWITCHED ON AND OFF WITHOUT ACTIVATING EMERGENCY BALLAST. UPON LOSS OF POWER, THE FIXTURE SHALL BE ILLUMINATED FOR A MINIMUM OF 90 MINUTES REGARDLESS OF THE LIGHT SWITCH POSITION. PROVIDE TEST SWITCH AND CHARGING INDICATOR FOR EMERGENCY BATTERY AS SPECIFIED.
7. ALL INTEGRAL EMERGENCY BATTERIES USED IN EXTERIOR APPLICATIONS SHALL HAVE A MINIMUM STARTING TEMPERATURE OF -20 DEGREES F UNLESS OTHERWISE SPECIFIED.
8. CAREFULLY COORDINATE MOUNTING REQUIREMENTS FOR FIXTURES WITH CONTRACT DOCUMENTS AND FIXTURE MANUFACTURER. PROVIDE APPROPRIATE MOUNTING FRAMES FOR LAY-IN OR GYPSUM CEILINGS. VERIFY CEILING REQUIREMENTS WITH FINAL ARCHITECTURAL REFLECTED CEILING PLAN.
9. VERIFY FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
10. VERIFY VOLTAGES OF EXISTING LIGHTING CIRCUITRY PRIOR TO ORDERING FIXTURES.
11. FOR FIXTURES INSTALLED IN CASEWORK, VERIFY FIXTURE FIT WITH CASEWORK SHOP DRAWINGS PRIOR TO ORDERING.
12. PROVIDE CUSTOM ANTI-SWAY BRACING FOR PENDANT TO ELIMINATE PENDANT MOVEMENT DUE TO AIR MOVEMENT OR ENVIRONMENTAL CAUSES.
13. COORDINATE LOCATIONS OF INTERIOR AND EXTERIOR LIGHTING FIXTURES WITH FINAL ARCHITECTURAL DRAWINGS. FIXTURES THAT ARE NOT INSTALLED IN THE CORRECT LOCATION SHALL BE RELOCATED AND REINSTALLED IN THE CORRECT LOCATION AT NO ADDITIONAL CHARGE.
14. FIXTURES SHALL BE PROVIDED WITH ESCUTCHEON PLATES AS REQUIRED TO COVER EXISTING HOLES FROM REMOVED FIXTURES. CANOPY CEILING AROUND NEW FIXTURES SHALL BE REFINISHED TO MATCH EXISTING SURROUNDING CANOPY CEILING SURFACES.
15. PROVIDE 5000K COLOR TEMPERATURE IN SPECIAL EDUCATION SPACES AS SPECIFIED.
16. FIXTURES SHALL BE CAREFULLY COORDINATED WITH MANUFACTURER TO DELIVER THE SPECIFIED PRODUCT IN SUFFICIENT TIME TO MEET PROJECT DEADLINES. EQUIPMENT DELIVERY LEAD TIME SHALL NOT BE HELD AS A VALID REASON FOR REQUESTING LUMINAIRE SUBSTITUTION UNLESS LUMINAIRE LEAD TIME FROM SPECIFIED MANUFACTURER IS IN EXCESS OF 14 WEEKS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DETERMINE NECESSARY EQUIPMENT LEAD TIMES, DELIVER SUBMITTALS FOR REVIEW IN A TIMELY FASHION, AND PLACE ORDERS ACCORDINGLY TO ENSURE TIMELY DELIVERY.
17. EVALUATION OF APPROVED EQUALS SHALL BE AT THE SOLE DISCRETION OF THE ARCHITECT AND ENGINEER. IF THE PRODUCT SUBMITTED DURING THE REVIEW PROCESS IS NOT JUDGED AS AN EQUAL BY THE REVIEWING ENGINEER, THE CONTRACTOR SHALL PROVIDE THE PRODUCT SPECIFIED.
18. LIGHT FIXTURE TRANSFORMERS SHALL BE INTEGRAL STEP DOWN TRANSFORMERS PER NEC 210.6C. IF AN INTEGRAL STEP DOWN TRANSFORMER IS NOT AVAILABLE, PROVIDE A 120V CONNECTION FOR LIGHT FIXTURES AND ADDITIONAL CONTROL DEVICES AS REQUIRED TO PROPERLY CONTROL FIXTURES ALONG WITH OTHER 277 VOLT LIGHTING IN ROOM. VERIFY CONDITIONS AND REQUIREMENTS, COMPLETE AS REQUIRED.
19. CAREFULLY COORDINATE VOLTAGES OF FIXTURES PRIOR TO ORDERING FIXTURES.
20. CAREFULLY VERIFY COLOR TEMPERATURE OF FIXTURES WITH ARCHITECT PRIOR TO ORDERING.

LIGHTING CONTROL SEQUENCE OF OPERATIONS

LIGHTING SEQUENCE SCHEME NO.	SPACE CATEGORIES	MANUAL CONTROL FUNCTIONS: ON / OFF (NOTE 1a)	DIMMING (NOTE 1b)	PRESENT SCENE CONTROLS (NOTE 1c)	LIGHTING CONTROL OVERRIDE SWITCH (STAFF-ONLY) (NOTE 1d)	PARTITION CONTROL (NOTE 1e)	OCCUPANCY SENSOR CONTROL FUNCTIONS: AUTOMATIC OFF (NOTE 2a)	AUTOMATIC ON / OFF (NOTE 2b)	AUTOMATIC PARTIAL ON (NOTE 2c)	AUTOMATIC PLUG LOAD ON - OFF AUTO-OFF AFTER 20 MIN. OF INACTIVITY (NOTE 2d)	AUTOMATIC LIGHT REDUCTION: BUSINESS HOURS (NOTE 2e)	EVENING HOURS (NOTE 2f)	TIME CLOCK FUNCTION (SCHEDULED CONTROL) (NOTE 4)	EMERGENCY LIGHTING: CONTROLLED WITH SPACE LTG. (FULL EM VIA UL924 UPON LOSS OF NORMAL POWER)	ON 24 HOUR MODE (NIGHT LTG)	REMARKS
S1	CLASSROOMS / LECTURE / TRAINING ROOMS / CONFERENCE	•	•				•						•	•		
S2	KITCHEN	•									•	•	•	•		
S3	CONFERENCE / MEETING / MULTIPURPOSE ROOMS	•	•				•							•		
S4	MECHANICAL / ELECTRICAL SPACES	•														
S5	CORRIDOR / LOBBIES				•						•	•	•		•	
S6	STORAGE	•					•							•		
S7	OFFICE - OPEN PLAN OFFICE AREAS (MORE THAN 1 WORKSTATION)	•	•				•							•		
S8	RESTROOMS - SINGLE STALL	•						•								

1. MANUAL CONTROL:

a. SWITCH FUNCTION:
MANUAL OPERATION AT LOCAL WALL CONTROL SWITCH SHALL BE REQUIRED TO TURN LIGHTING **ON** AND **OFF** WITHIN THE SPACE.

b. DIMMER FUNCTION:
MANUAL OPERATION AT LOCAL WALL CONTROL DIMMER SHALL ALLOW OCCUPANT TO MANUALLY TURN LIGHTING **ON** AND **OFF** WITHIN THE SPACE AND ADJUST LIGHT LEVEL FROM **100%** TO MINIMUM DIM LEVEL AND **OFF**.

c. PRESET SCENES:
LOCAL WALL CONTROL DIMMER SHALL ALLOW OCCUPANT TO:
1. MANUALLY TURN LIGHTING **ON** AND **OFF** WITHIN THE SPACE.
2. MANUALLY ADJUST LIGHT LEVEL FROM **100%** TO MINIMUM DIM LEVEL AND **OFF**.
3. PROGRAM LOCAL WALL CONTROL TO ALLOW OCCUPANT A **MINIMUM OF # LIGHTING SCENES** UNLESS NOTES OTHERWISE. **REFER TO REMARKS FOR BASE SCENE SETTINGS**.

d. OVERRIDE SWITCH:
1. KEY OPERATED LOCAL WALL OVERRIDE SWITCH SHALL ALLOW BUILDING STAFF TO TEMPORARILY OVERRIDE AUTOMATIC LIGHTING CONTROL FUNCTIONS AND TURN THE LIGHTING **ON** TO **100%** WITHIN THE SPACE, FOR A MAXIMUM OF **2 HOURS**.
2. AFTER THE PREPROGRAMMED TIME DELAY HAS EXPIRED, THE SPACE LIGHTING SHALL RETURN TO NORMAL SCHEDULED AUTOMATIC LIGHTING CONTROL FUNCTIONS.

e. SPACE PARTITION CONTROL:
1. PROVIDE AN AUTOMATIC LIGHTING CONTROL INTERFACE COORDINATED WITH OPERABLE ROOM PARTITIONS SUCH THAT LIGHTING CONTROL ZONES SHALL AUTOMATICALLY COMBINE OR SEPARATE BASED ON THE POSITION OF THE PARTITIONS. EACH RESULTING SPACE SHALL BE PROVIDED WITH INDEPENDENT LIGHTING CONTROL, INCLUDING A DEDICATED MANUAL WALL CONTROL STATION IN EACH ZONE SPACE. LIGHTING CONTROLS SHALL MAINTAIN MANUAL AND AUTOMATIC CONTROL FUNCTIONS AND SHALL OPERATE INDEPENDENTLY WITHIN EACH SPACE BASED ON THE CONFIGURED ROOM LAYOUT. PROVIDE CEILING SENSORS, RELAYS, PROGRAMMING, ETC. FOR A COMPLETE FUNCTIONAL SYSTEM.

2. OCCUPANCY SENSOR:

a. VACANCY SENSOR MODE:
1. IN VACANCY MODE, MANUAL OPERATION AT LOCAL WALL SWITCH SHALL BE REQUIRED TO TURN LIGHTING **ON** WITHIN THE SPACE.
2. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**, THE SENSOR SHALL AUTOMATICALLY TURN LIGHTING **OFF** WITHIN THE SPACE.

b. OCCUPANCY SENSOR MODE:
1. IN OCCUPANCY MODE, THE SENSOR SHALL AUTOMATICALLY TURN LIGHTING **ON** WITHIN THE SPACE WHEN OCCUPANCY IS DETECTED.
2. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**, THE SENSOR SHALL AUTOMATICALLY TURN LIGHTING **OFF** WITHIN THE SPACE.

c. PARTIAL AUTO-ON:
1. OCCUPANCY SENSOR SHALL AUTOMATICALLY TURN THE SPACE LIGHTING **ON** TO A MAXIMUM OF **50% POWER INPUT** WHEN OCCUPANCY IS DETECTED.
2. THE LOCAL WALL DIMMER SHALL ALLOW MANUAL ADJUSTMENT FROM **100% POWER INPUT** TO A MINIMUM DIM LEVEL AND **OFF**.
3. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**,THE SENSOR SHALL AUTOMATICALLY TURN LIGHTING **OFF** WITHIN THE SPACE.

d. PLUGLOAD CONTROL:
1. IN VACANCY MODE, MANUAL OPERATION AT LOCAL WALL SWITCH SHALL BE REQUIRED TO TURN CONTROLLED RECEPTACLES **ON** WITHIN THE SPACE.
2. IN OCCUPANCY MODE, THE SENSOR SHALL AUTOMATICALLY TURN CONTROLLED RECEPTACLES **ON** WITHIN THE SPACE.
3. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**,THE SENSOR SHALL AUTOMATICALLY TURN CONTROLLED RECEPTACLES **OFF** WITHIN THE SPACE.
4. PROVIDE WIRED PLUG LOAD RELAYS, UNLESS NOTED OTHERWISE. .

e. LIGHTING OPERATION DURING BUSINESS HOURS:
1. AT THE START OF THE SCHEDULED BUSINESS HOURS, THE TIMECLOCK SHALL AUTOMATICALLY TURN SPACE LIGHTING **ON** TO **30% POWER INPUT**.
2. UPON DETECTION OF OCCUPANCY, LIGHTING POWER INPUT SHALL AUTOMATICALLY INCREASE TO **100% INPUT POWER**.
3. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**,THE SENSOR SHALL AUTOMATICALLY REDUCE TO LIGHTING INPUT TO **30%**.
4. THIS MODE OF OPERATION SHALL CONTINUE UNTIL THE SCHEDULED TRANSITION TO EVENING LIGHTING CONTROL OPERATION.
5. LOCAL WALL OVERRIDE SWITCHES SHALL BE DISABLED DURING BUSINESS HOURS.

f. LIGHTING OPERATION DURING EVENING HOURS:
1. AT THE START OF THE SCHEDULED EVENING HOURS, THE TIMECLOCK SHALL AUTOMATICALLY TURN LIGHTING **OFF** WITHIN THE SPACE AND TURN EMERGENCY LIGHTING TO **ON** TO **100% POWER INPUT**.
2. UPON DETECTION OF OCCUPANCY, LIGHTING SHALL AUTOMATICALLY TURN **ON** TO **100% LIGHTING POWER INPUT**.
3. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**, THE SENSOR SHALL AUTOMATICALLY TURN THE SPACE LIGHTING **OFF** AND EMERGENCY LIGHTING **ON** TO **100% POWER INPUT**.
4. THIS MODE OF OPERATION SHALL CONTINUE UNTIL THE SCHEDULED TRANSITION TO BUSINESS LIGHTING CONTROL OPERATION.
5. LOCAL WALL OVERRIDE SWITCHES SHALL BE PROGRAMMED TO OVERRIDE AUTOMATIC LIGHTING CONTROLS AND PROVIDE 100% LIGHTING POWER INPUT FOR A MAXIMUM DURATION OF APPROXIMATELY **2 HOURS**, AFTER WHICH CONTROL SHALL AUTOMATICALLY RETURN TO NORMAL SCHEDULED OPERATION.

4. TIME CLOCK FUNCTION:
a. LIGHTING SHALL BE AUTOMATICALLY CONTROLLED BY A PROGRAMMABLE TIMECLOCK BASED ON THE FACILITY'S OPERATING SCHEDULE. THE TIMECLOCK SHALL ENABLE OR DISABLE LIGHTING CONTROL ZONES IN ACCORDANCE WITH PROGRAMMED BUSINESS HOURS, AFTER-HOURS, AND NON-OCCUPIED PERIODS.
b. WHEN LIGHTING IS SCHEDULED OFF, AUTOMATIC CONTROLS SHALL NOT ENERGIZE LIGHTING EXCEPT BY OCCUPANCY SENSING OR MANUAL OVERRIDE.
c. DURING BUSINESS HOURS, LIGHTING SHALL OPERATE PER THE PROGRAMMED CONTROL SEQUENCE (REFER TO NOTE 2E).
d. DURING EVENING OR AFTER-HOURS PERIODS, LIGHTING SHALL REMAIN OFF OR IN A REDUCED-POWER STATE AND SHALL OPERATE ONLY UPON DETECTION OF OCCUPANCY OR ACTIVATION OF A MANUAL OVERRIDE.
e. THE TIMECLOCK SHALL INCLUDE PROGRAMMABLE HOLIDAY, WEEKEND, AND SPECIAL EVENT SCHEDULES. MANUAL OVERRIDES SHALL TEMPORARILY BYPASS THE SCHEDULE FOR A PROGRAMMED DURATION, AFTER WHICH LIGHTING CONTROL SHALL AUTOMATICALLY RETURN TO NORMAL OPERATION.

5. LIGHTING CONTROL SYSTEM ADDITIONAL REQUIREMENTS
a. FURNISH AND INSTALL ALL COMPONENTS, HARDWARE, AND INTERFACE WIRING AS REQUIRED TO ACCOMPLISH THE INDICATED CONTROL SEQUENCES.
b. LIGHTING CONTROL DEVICES SHOWN ON PLANS ARE DIAGRAMMATIC AND DO NOT DEPICT THE COMPLETE EXTENT OF ALL SYSTEM COMPONENTS REQUIRED. PROVIDE ADDITIONAL SENSORS, POWER PACKS, AND CONTROLLERS AS NECESSARY TO MEET THE INTENDED SCOPE OF WORK.
c. THE LIGHTING CONTROL SYSTEM SHALL BE A FULLY WIRED INSTALLATION UNLESS SPECIFICALLY NOTED OTHERWISE. THE USE OF WIRELESS CONTROLS IS NOT PERMITTED.
d. ALL LOW VOLTAGE LIGHTING CONTROL CABLING INSTALLED IN OPEN CEILING AREAS SUBJECT TO PHYSICAL DAMAGE SHALL BE RUN IN A COMPLETE EMT RACEWAY SYSTEM. IN CONCEALED ACCESSIBLE CEILING SPACES OR AREAS NOT SUBJECT TO PHYSICAL DAMAGE, LOW VOLTAGE CONTROL CABLING MAY BE RUN IN FREE AIR. ALL FREE-AIR CABLING SHALL BE PLENUM-RATED AND SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUPPORT CABLING FROM CEILING GRID, DUCTWORK, OR PIPING.
e. COORDINATE FINAL DEVICE LOCATIONS AND PROGRAMMING WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE IN THE FIELD PRIOR TO ROUGH-IN.
f. FURNISH FACTORY REPRESENTATIVE FOR SYSTEM COMMISSIONING, PROGRAMMING, AND OWNER TRAINING AS REQUIRED BY SPECIFICATIONS.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

AD-03 (CU-1) AD-03 (GEF-9)

TAG	DESCRIPTION	LOAD: WATTS	HP	MCA	FLA	MOCP	VOLT	PHASE	PANEL	CKT. NO.	FEEDER: CABLE	CONDUIT	DISCONNECT SWITCH: SIZE	FUSE	PROV. BY M.C./P.C.	E.C.	STARTER: TYPE	PROV. BY: M.C./P.C.	E.C.	REMARKS
AH-T-1	AIR HANDLING UNIT	16960.242	15		20.4	30	480	3	EX. PANEL 1GH1	19,21,23	4 #8 & 1 #10 GRD.	1"	30A				VFD	X		
AH-T-2	AIR HANDLING UNIT	6567.937	6		7.9	15	480	3	EX. PANEL 1GH1	20,22,24	4 #12 & 1 #12 GRD.	3/4"	15A				VFD	X		
AH-T-3	AIR HANDLING UNIT	10226.028	10		12.3	15	480	3	EX. PANEL 1GH1	26,28,30	4 #12 & 1 #12 GRD.	3/4"	15A				VFD	X		
AH-U-1	AIR HANDLING UNIT	11389.966	10		13.7	20	480	3	EX. PANEL 1GH1	25,27,29	4 #12 & 1 #12 GRD.	3/4"	20A				VFD	X		
AH-U-4	AIR HANDLING UNIT	11389.966	10		13.7	20	480	3	EX. PANEL 12H4	1,3,5	4 #12 & 1 #12 GRD.	3/4"	20A				VFD	X		
AH-U-5	AIR HANDLING UNIT	10226.028	10		12.3	15	480	3	EX. PANEL 12H4	2,4,6	4 #12 & 1 #12 GRD.	3/4"	15A				VFD	X		
CH-1	CABINET HEATER	264			2.2	15	120	1	NEW PANEL CL-2	B30	2 #12 & 1 #12 GRD.	3/4"	20A					X		
CU-1	CONDENSING UNIT	4180.8		20.1		25	208	1	NEW PANEL CL-2	B79,81	3 #8 & 1 #10 GRD.	1"	25A					X		
GEF-1	GENERAL EXHAUST FAN	156			1.3	15	120	1	NEW PANEL CL-2	B65	2 #12 & 1 #12 GRD.	3/4"	20A						X	
GEF-2	GENERAL EXHAUST FAN	180			1.5	15	120	1	NEW PANEL CL-2	B67	2 #12 & 1 #12 GRD.	3/4"	20A						X	
GEF-3	GENERAL EXHAUST FAN	180			1.5	15	120	1	NEW PANEL CL-1L	A11	2 #12 & 1 #12 GRD.	3/4"	20A						X	
GEF-4	GENERAL EXHAUST FAN	156			1.3	15	120	1	NEW PANEL CL-1L	A13	2 #12 & 1 #12 GRD.	3/4"	20A						X	
GEF-5	GENERAL EXHAUST FAN	180			1.5	15	120	1	NEW PANEL CL-1L	A17	2 #12 & 1 #12 GRD.	3/4"	20A						X	
GEF-6	GENERAL EXHAUST FAN	456			3.8	15	120	1	NEW PANEL CL-2	B69	2 #12 & 1 #12 GRD.	3/4"	20A						X	
GEF-7	GENERAL EXHAUST FAN	156			1.3	15	120	1	NEW PANEL CL-1L	A21	2 #12 & 1 #12 GRD.	3/4"	20A						X	
GEF-9	GENERAL EXHAUST FAN	156			1.3	15	120	1	NEW PANEL CL-2	B77	2 #12 & 1 #12 GRD.	3/4"	20A						X	
H-1	HOOD	427.2			3.56	15	120	1	NEW PANEL CL-2	B37	2 #12 & 1 #12 GRD.	3/4"	20A					X		
H-1	HOOD	427.2			3.56	15	120	1	NEW PANEL CL-2	B39	2 #12 & 1 #12 GRD.	3/4"	20A					X		
H-1	HOOD	427.2			3.56	15	120	1	NEW PANEL CL-2	B41	2 #12 & 1 #12 GRD.	3/4"	20A					X		
H-1	HOOD	427.2			3.56	15	120	1	NEW PANEL CL-2	B43	2 #12 & 1 #12 GRD.	3/4"	20A					X		
H-1	HOOD	427.2			3.56	15	120	1	NEW PANEL CL-2	B47	2 #12 & 1 #12 GRD.	3/4"	20A					X		
H-1	HOOD	427.2			3.56	15	120	1	NEW PANEL CL-2	B45	2 #12 & 1 #12 GRD.	3/4"	20A					X		
RT-1	ROOF TOP UNIT	23278.763			28	35	480	3	EX. PANEL	EX.	4 #8 & 1 #10 GRD.	1"	35A					X		-ALTERNATE. -DISCONNECT EXISTING ROOF TOP UNIT BE REPLACED. RECONNECT EXISTING CONNECTIONS TO RT-1. COMPLETE AS REQUIRED
TEF-1	TOILET EXHAUST FAN	156			1.3	15	120	1	NEW PANEL CL-2	B73	2 #12 & 1 #12 GRD.	3/4"	20A						X	
TEF-2	TOILET EXHAUST FAN	456			3.8	15	120	1	NEW PANEL CL-2	B61	2 #12 & 1 #12 GRD.	3/4"	20A						X	

INTERIOR LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	SERIES OR CATALOG NUMBER	LAMP	COLOR TEMP	MIN LUMENS	MAX WATTS	VOLTS	CONTROL	MOUNTING TYPE	MOUNTING HEIGHT	REMARKS
AA1	2'X4' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT4-30L-ADSM-GZ1-LP835 24CZ2-XX-S-UNV-L835-HCD1 LCAT24-S-35XXXXG-ED1U	LED	3500K	3000 LM	23 W	120/277V	0-10V	RECESSED LAY-IN	- -	---
AA2	2'X4' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT4-40L-ADSM-GZ1-LP835 24CZ2-XX-S-UNV-L835-HCD1 LCAT24-S-35XXXXG-ED1U	LED	3500K	4000 LM	31 W	120/277V	0-10V	RECESSED LAY-IN	- -	---
AA3	2'X4' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT4-48L-ADSM-GZ1-LP835 24CZ2-XX-S-UNV-L835-HCD1 LCAT24-S-35XXXXG-ED1U	LED	3500K	4800 LM	40 W	120/277V	0-10V	RECESSED LAY-IN	- -	---
AB2	2'X2' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT2-33L-ADSM-GZ1-LP835 22CZ2-XX-S-UNV-L835-HCD1 LCAT22-S-35XXXXG-ED1U	LED	3500K	3300 LM	27 W	120/277V	0-10V	RECESSED LAY-IN	--	---
AB3	2'X2' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT2-40L-ADSM-GZ1-LP835 22CZ2-XX-S-UNV-L835-HCD1 LCAT22-S-35XXXXG-ED1U	LED	3500K	4000 LM	31 W	120/277V	0-10V	RECESSED LAY-IN	--	---
AB4	2'X2' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT2-48L-ADSM-GZ1-LP835 22CZ2-XX-S-UNV-L835-HCD1 LCAT22-S-35XXXXG-ED1U	LED	3500K	4800 LM	43 W	120/277V	0-10V	RECESSED LAY-IN	--	---
AC1	2" WIDE RECESSED LINEAR	MARK	S2RD-LOP-4FT-X-TG-90CRI-35K-1000LMF-SCT-MIN10-FLL-MVOLT-XX OR APPROVED EQUAL	LED	3500K	1000 LMF	34 W	120/277V	0-10V	RECESSED LAY-IN	---	COORDINATE FINISHES WITH ARCHITECT PRIOR TO ORDERING.
BC1	2'X2' RECESSED LENSED KITCHEN TROFFER FIXTURE WITH REGRESSED ALUMINUM DOOR INVERTED LENS AND TRIPLE GASKETING	LITHONIA	2GTL-2-40L-RW-A19INV-MVOLT-GZ1-LP835-ABC	LED	3500K	4000 LM	34 W	120/277V	0-10V	RECESSED LAY-IN	---	---
BD1	2'X4' RECESSED LENSED KITCHEN TROFFER FIXTURE WITH REGRESSED ALUMINUM DOOR INVERTED LENS AND TRIPLE GASKETING	LITHONIA METALUX COLUMBIA	2GTL-4-60L-RW-A19INV-MVOLT-GZ1-LP835-ABC 24GR-RA-LD5-XX-A19/156INV-UNV-L835-HCD1-G3 LJT24-35XXG-RAA19INV-ED1U	LED	3500K	6000 LM	49 W	120/277V	0-10V	RECESSED LAY-IN	---	---
BD2	2'X4' RECESSED LENSED KITCHEN TROFFER FIXTURE WITH REGRESSED ALUMINUM DOOR INVERTED LENS AND TRIPLE GASKETING	LITHONIA METALUX COLUMBIA	2GTL-4-40L-RW-A19INV-MVOLT-GZ1-LP835-ABC 24GR-RA-LD5-XX-A19/156INV-UNV-L835-HCD1-G3 LJT24-35XXG-RAA19INV-ED1U	LED	3500K	4000 LM	54 W	120/277V	0-10V	RECESSED LAY-IN	---	---
CA1	6" DIAMETER LED OPEN DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR AND WHITE FLANGE	LITHONIA HALO PRESCOLITE	LDN6-35-10-LO6-AR-LSS-TRW-MVOLT-GZ1 HC6XXD010-HM6XX835-61WDHWF LTR-6RD-H-XXXXL-DM1-LTR-6RD-T-XX35K8WD-SSWT	LED	3500K	1000 LM	11 W	120/277V	0-10V	RECESSED LAY-IN/ DRYWALL	---	---
CA2	6" DIAMETER LED OPEN DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR AND WHITE FLANGE	LITHONIA HALO PRESCOLITE	LDN6-35-15-LO6-AR-LSS-TRW-MVOLT-GZ1 HC6XXD010-HM6XX835-61WDHWF LTR-6RD-H-XXXXL-DM1-LTR-6RD-T-XX35K8WD-SSWT	LED	3500K	1500 LM	18 W	120/277V	0-10V	RECESSED LAY-IN/ DRYWALL	---	---
CA3	6" DIAMETER LED OPEN DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR AND WHITE FLANGE	LITHONIA HALO PRESCOLITE	LDN6-35-20-LO6-AR-LSS-TRW-MVOLT-GZ1 HC6XXD010-HM6XX835-61WDHWF LTR-6RD-H-XXXXL-DM1-LTR-6RD-T-XX35K8WD-SSWT	LED	3500K	2000 LM	23 W	120/277V	0-10V	RECESSED LAY-IN/ DRYWALL	---	---
IA1	4' SUSPENDED LED INDUSTRIAL FIXTURE WITH FLAT DIFFUSE LENS, WHITE FINISH, WIREGUARD, AND SAFETY CHAINS	LITHONIA METALUX COLUMBIA	CLX-L48-3000LM-SEF-FDL-MVOLT-GZ1-35K-80CRI-WH- HC36M12-WGCLX48 4SNX-XXSL-FDL-UNV-L835-HCD1-AYC-CHAIN/SET-U-WG-SNX/SN-4FT-B MPS4-35XX-FW-ED1U-CSHC-MPSWG4	LED	3500K	3000 LM	32 W	120/277V	0-10V	'Y' CHAIN SUSPENDED	---	COORDINATE LOCATIONS WITH DUCTWORK AND PIPING
PA	96" RING LIGHT PENDANT WITH INDEPENDENT DIRECT/INDIRECT LIGHTING CONTROLS	CERCHIO LIGHTING	P77-DI-D96-H4-W3-80CR-35KD-35KID-SDC-DE96-IDE-96-XX-XX-XX-C03 OR APPROVED EQUAL	LED	3500K	8666 LM	104 W	120/277V	SDC	PENDANT	10'6" A.F.F.	COORDINATE FINISHES WITH ARCHITECT PRIOR TO ORDERING. COORDINATE MOUNTING STYLE (CANOPY TYPE) AND REQUIREMENTS WITH ARCHITECT PRIOR TO ORDERING.
PC	RGBW TAPE LIGHT	OPTIC ARTS DIODELED OMNI LIGHT	KBL-W-HB-XX-RGBW26SO-RGB40K-R80-SF-NA-XX DI-24V-3D-LIN-RGBW-XX-STE NEO3M-RGB35-HO-OM-WH-XX	LED	3500K	192 LMF	5 W	120/277V	0-10V	SURFACE	---	COORDINATE FINISH AND RUN LENGTH WITH ARCHITECT PRIOR TO ORDERING.
XA	LED THERMOPLASTIC SINGLE FACE EXIT SIGN, RED LETTERING, WHITE FINISH, NICAD BATTERY, SELF-DIAGNOSTICS	LITHONIA SURELITES DUAL LITE	LQM-S-W-3-R-MVOLT-ELN-SD LPX7SD EVCURWI	LED	---	---	1 W	120/277V	---	CEILING	---	ENGINEER - CONFIRM LETTER COLOR, FINISH, BATTERY VS AC ONLY
XB	LED THERMOPLASTIC DUAL FACE EXIT SIGN, RED LETTERING, WHITE FINISH, NICAD BATTERY, SELF-DIAGNOSTICS	LITHONIA SURELITES DUAL LITE	LQM-S-W-3-R-MVOLT-ELN-SD LPX7SD EVCURWI	LED	---	---	1 W	120/277V	---	CEILING	---	ENGINEER - CONFIRM LETTER COLOR, FINISH, BATTERY VS AC ONLY
EM	FIXTURE ON EMERGENCY CIRCUIT WITH 90 MINUTE, HIGH OUTPUT (MIN 1400LM) BATTERY UNIT OR INVERTER		BODINE FACTORY INSTALLED BATTERY, OR, AT CONTRACTOR'S DISCRETION, MYERS LV SERIES INVERTER (SIZE AND QUANTITY AS REQUIRED)				0 W	120/277V		---		- PROVIDE TEST SWITCH AND CHARGING INDICATOR - INTEGRAL BATTERIES NOT ALLOWED IN FIXTURES WITH GREATER THAN 10000 LUMENS
NL	CONSTANT HOT, UNSWITCHED NIGHT LIGHT FIXTURE						0 W					---

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PROJECT:
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
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PROJECT 25-181
DATE 07/14/26
COORDINATED BY RH
DRAWN BY BR
CHECKED BY DJ

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

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01
AD-03	08/06/26	ADDENDUM 03

DRAWING
ELECTRICAL SCHEDULES

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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SHEET
E-501

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NEW PANEL CL-1R

LOCATION: WASH T-147
SUPPLY FROM: NEW PANEL CL-1L
MOUNTING: RECESSED
ENCLOSURE: NEMA-1
A.I.C. RATING: 22000 A
NOTES:
VOLTS: 120/208 Wye
PHASES: 3
MAINS TYPE: MLO
MAIN RATING: 400 A
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
A61	REC - T-150 - INPUT/TV	--	20 A	1	900			480							A62
A63	REC - T-150	--	20 A	1		600			480		3	20 A	GC	DISPOSER - T-151	A64
A65	REC - T-101	--	20 A	1			200			480					A66
A67	REC - T-102 - TV	--	20 A	1	800			600			1	20 A	--	REC - T-151	A68
A69	REC - T-102	--	20 A	1		400			1920		1	20 A		COMBI OVEN STEAMER	A70
A71	REC - T-103 - INPUT/TV	--	20 A	1			900			500	1	20 A		COMBI VENTILATION CONTROLS	A72
A73	REC - T-103	--	20 A	1	600										A74
A75	REC - T-103	--	20 A	1		400			1414		2	20 A	GC	MICROWAVE - T-145	A76
A77	REC - T-104	--	20 A	1			200			1414					A78
A79	REC - T-106	--	20 A	1	600			960			1	20 A	--	QUART MIXER - T-145	A80
A81	REC - T-106 - INPUT/TV	--	20 A	1		900			1428		1	20 A	--	ICE MACHINE - T-145	A82
A83	REC - T-107	--	20 A	1			400			888	1	20 A	GC	REFRIGERATOR PASS THRU- T-145	A84
A85	REC - T-106	--	20 A	1	600			1612			2	20 A	GC	REFRIGERATOR PASS THRU - T-145	A86
A87	REC - T-105 - INPUT/TV	--	20 A	1		900			1612						A88
A89	REC - T-105	--	20 A	1			400			1920	1	20 A	--	DEMO TABLE - T-145	A90
A91	REC - T-105	--	20 A	1	400			800			1	20 A	--	REC - T-146	A92
A93	REC - CAST TV T-103/T-105	--	20 A	1		200			900		1	20 A	--	REC - T-146 - INPUT/TV	A94
A95	REC - T-102	--	20 A	1			400			200	1	20 A	--	REC - T-148 STORAGE	A96
A97	REC - T-102	--	20 A	1	400			200			1	20 A	--	REC - T146 CULINARY	A98
A99	PASS-THRU HOT HOLDING	--	20 A	2		1612			200		1	20 A	--	REC - T146 CULINARY	A100
A101							1612			888	1	20 A	--	REFRIGERATOR PASS-THRU	A102

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	9119 VA
TOTAL CONNECTED LOAD PHASE B:	13133 VA
TOTAL CONNECTED LOAD PHASE C:	10569 VA
TOTAL CONNECTED LOAD:	32822 VA
TOTAL CONNECTED AMPS:	91.1 A

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

EX. PANEL 1XL1

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA-1
A.I.C. RATING: 22000 A
NOTES:
NEW CIRCUIT BREAKERS SHALL MATCH THE MAKE, MODEL, AND WITHSTAND RATING OF THE EXISTING PANELBOARD. VERIFY EXACT CONDITIONS IN FIELD.
VOLTS: 120/208 Wye
PHASES: 3
MAINS TYPE: MLO
MAIN RATING: 225 A
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
X1	EX. REACH IN REFR KITCHEN	--	20 A	1	0			0			1	20 A	--	EX. ICE MAKER (KITCHEN)	X2
X3	EX. REACH IN REFR KITCHEN	--	20 A	1		0			0		1	20 A	--	EX. MOBILE ICE CREAM CAB "A"	X4
X5	EX. MOBILE MILK DISP "A"	--	20 A	1			0			0	1	20 A	--	EX. MOBILE ICE CREAM CAB "B"	X6
X7	EX. MOBILE MILK DISP "B"	--	20 A	1	0			0			1	20 A	--	EX. MOBILE ICE CREAM CAB "C"	X8
X9	EX. MOBILE MILK DISP "C"	--	20 A	1		0			0		1	20 A	--	EX. MOBILE ICE CREAM CAB	X10
X11	EX. WALK IN FREEZER/LGT	--	20 A	1			0			0	1	20 A	--	EX. MOBILE MILK CAB	X12
X13	EX. WALK IN COOLER COIL UNIT	--	20 A	1	0										X14
X15	EX. RECPT ROOF ABOVE KITCHEN	--	20 A	1		0			0		1	20 A	--	EX. SOUND EQUIP C120 & CAF SYS	X16
X17	EX. CRKT	--	20 A	1			0								X18
X19	EX. FM 200 PANEL	--	20 A	1	0			0			1	20 A	--	EX. SECURITY TRANSPONDER BC	X20
X21	EX. E WALL & UPPER 4GANG REC	--	20 A	1		0			0		1	20 A	--	EX. ROLLING GRILLE "C"...	X22
X23	EX. SPARE	--	20 A	1			0			0	1	20 A	--	EX. ROLLING GRILLE "STC" EAST	X24
X25	EX. W WALL & UPPER 4GANG REC	--	20 A	1	0			0			1	20 A	--	EX. GRILLE STAIR T-18	X26
X27	NEW SPACE FROM EX. BREAKER	--	--	1		--			0		1	20 A	--	EX. FIRE ALARM NAC #7	X28
X29	REFRIGERATOR - T-140	GC	20 A	1			1200			1200	1	20 A	GC	REFRIGERATOR - T-149	X30
X31					0			0			3	40 A	--	EX. FREEZER COND UNIT ON ROOF	X32
X33	EX. COOLER COND UNIT ON ROOF	--	15 A	3		0			0						X34
X35							0			0					X36
X37	REFRIGERATOR - T-140	GC	20 A	1	1200			1200			1	20 A	GC	REFRIGERATOR - T-149	X38
X39	REFRIGERATOR - T-140	GC	20 A	1		1200			1200		1	20 A	GC	REFRIGERATOR - T-149	X40
X41	REFRIGERATOR - T-140	GC	20 A	1			1200			1200	1	20 A	GC	REFRIGERATOR - T-149	X42

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	2400 VA
TOTAL CONNECTED LOAD PHASE B:	2400 VA
TOTAL CONNECTED LOAD PHASE C:	4800 VA
TOTAL CONNECTED LOAD:	9600 VA
TOTAL CONNECTED AMPS:	26.6 A

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

EX. PANEL 1GH1

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA-1
A.I.C. RATING: 22000 A
NOTES:
NEW CIRCUIT BREAKERS SHALL MATCH THE MAKE, MODEL, AND WITHSTAND RATING OF THE EXISTING PANELBOARD. VERIFY EXACT CONDITIONS IN FIELD.
VOLTS: 480/277 Wye
PHASES: 3
MAINS TYPE: MLO
MAIN RATING: 225 A
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1					0			0			1	20 A	--	EX. LTG	2
3	EX. LOAD	--	15 A	3		0			0		1	20 A	--	EX. LTG	4
5							0			0	1	20 A	--	EX. LTG	6
7	EX. LOAD	--	20 A	1	0			0			3	15 A	--	EX. SPARE	8
9	EX. LOAD	--	20 A	1		0			0						10
11	EX. LOAD	--	20 A	1			0			0					12
13	EX. LOAD	--	20 A	1	0			0			1	20 A	--	EX. LOAD	14
15	EX. LOAD	--	20 A	1		0			0		1	20 A	--	EX. LOAD	16
17	EX. LOAD	--	20 A	1			0			0	1	20 A	--	EX. LOAD	18
19					5653			2189							20
21	AH-T-1	RP	30 A	3		5653			2189		3	15 A	RP	AH-T-2	22
23							5653			2189					24
25					3797			3409							26
27	AH-U-1	RP	20 A	3		3797			3409		3	15 A	RP	AH-T-3	28
29							3797			3409					30

LEGEND:
RP = PROVIDE NEW CIRCUIT BREAKER REPLACING EXISTING CIRCUIT BREAKER
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	15048 VA
TOTAL CONNECTED LOAD PHASE B:	15048 VA
TOTAL CONNECTED LOAD PHASE C:	15048 VA
TOTAL CONNECTED LOAD:	45144 VA
TOTAL CONNECTED AMPS:	54.3 A

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

NEW PANEL CL-1L

LOCATION: WASH T-147
SUPPLY FROM: CL-1L
MOUNTING: RECESSED
ENCLOSURE: NEMA-1
A.I.C. RATING: 22000 A
NOTES:
DOUBLE TUB PANEL WITH PANEL CL-1L. PROVIDE SUB FEED LUGS.
VOLTS: 120/208 Wye
PHASES: 3
MAINS TYPE: MLO
MAIN RATING: 400 A
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
A1	REC - T-149	--	20 A	1	800			1800			1	20 A	--	SINGLE BURNER - T-149	A2
A3	COMBI-OVEN - T-149	--	20 A	1		1500			1800		1	20 A	--	SINGLE BURNER - T-149	A4
A5	MOBILE PROOFER CABINET - T-145	--	20 A	1			1896			1800	1	20 A	--	SINGLE BURNER - T-149	A6
A7	DEMO TABLE - T-149	--	20 A	1	1920			1800			1	20 A	--	SINGLE BURNER - T-149	A8
A9	MOBILE PROOFER CABINET - T-149	--	20 A	1		1896			1800		1	20 A	--	SINGLE BURNER - T-149	A10
A11	GEF-3	--	20 A	1			180			1800	1	20 A	--	SINGLE BURNER - T-149	A12
A13	GEF-4	--	20 A	1	156			1800			1	20 A	--	SINGLE BURNER - T-149	A14
A15	REC - ROOF - GEF-3/GEF-4	--	20 A	1		200			1800		1	20 A	--	SINGLE BURNER - T-149	A16
A17	GEF-5	--	20 A	1			180			1800	1	20 A	--	SINGLE BURNER - T-149	A18
A19	REC - ROOF - GEF-5	--	20 A	1	200			1800			1	20 A	--	SINGLE BURNER - T-149	A20
A21	GEF-7	--	20 A	1		156			1800		1	20 A	--	SINGLE BURNER - T-149	A22
A23	REC - ROOF - GEF-7	--	20 A	1			200			1800	1	20 A	--	SINGLE BURNER - T-149	A24
A25	DISHWASHER STRAIGHT		20 A	3	1921			1800			1	20 A	--	SINGLE BURNER - T-149	A26
A27						1921			1800		1	20 A	--	SINGLE BURNER - T-149	A28
A29							1921			1800	1	20 A	--	SINGLE BURNER - T-149	A30
A31	DISHWASHER STRAIGHT		20 A	3	1921			1800			1	20 A	--	SINGLE BURNER - T-149	A32
A33						1921			1800		1	20 A	--	SINGLE BURNER - T-149	A34
A35							1921			1800	1	20 A	--	SINGLE BURNER - T-149	A36
A37	COMBI VENTILATION SYSTEM		20 A	3	1921			1800			1	20 A	--	SINGLE BURNER - T-149	A38
A39						1921			1800		1	20 A	--	SINGLE BURNER - T-149	A40
A41							1921			1200	1	20 A	--	TVS CULINARY LAB 3	A42
A43	DISH WASHING CONTROLS		20 A	1	200			1500			1	20 A		TEACHING CAMERA	A44
A45	DISH WASHING CONTROLS		20 A	1		200			500		1	20 A		WIRELESS HUB	A46
A47	SPARE	--	20 A	1			0			500	1	20 A	--	DOOR ACCESS CONTOLLER	A48
A49	SPACE	--	--	1	--			--			1	--	--	SPACE	A50
A51	SPACE	--	--	1		--			--		1	--	--	SPACE	A52
A53	SPACE	--	--	1			--			--	1	--	--	SPACE	A54
A55	SPACE	--	--	1	--			--			1	--	--	SPACE	A56
A57	SPACE	--	--	1		--			--		1	--	--	SPACE	A58
A59	SPACE	--	--	1			--			--	1	--	--	SPACE	A60

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	32259 VA
TOTAL CONNECTED LOAD PHASE B:	35950 VA
TOTAL CONNECTED LOAD PHASE C:	31290 VA
TOTAL CONNECTED LOAD:	99499 VA
TOTAL CONNECTED AMPS:	276.2 A

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

EX. PANEL SRL

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA-1
A.I.C. RATING: 22000 A
NOTES:
NEW CIRCUIT BREAKERS SHALL MATCH THE MAKE, MODEL, AND WITHSTAND RATING OF THE EXISTING PANELBOARD. VERIFY EXACT CONDITIONS IN FIELD.
VOLTS: 120/208 Wye
PHASES: 3
MAINS TYPE: MLO
MAIN RATING: 200 A
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
G1	SPARE	--	100 A	3	0			0			1	20 A	--	SPARE	G2
G3						0			0		1	20 A	--	SPARE	G4
G5							0			0	1	20 A	--	SPARE	G6
G7	SPARE	--	20 A	2	0			0			2	30 A	--	SPARE	G8
G9						0			0						G10
G11	SPARE	--	20 A	2			0			0	2	30 A	--	SPARE	G12
G13					0			0							G14
G15	SPARE	--	20 A	2		0			0		2	30 A	--	SPARE	G16
G17							0			0					G18
G19	SPARE	--	20 A	2	0			0			2	30 A	--	SPARE	G20
G21						0			0						G22
G23	SPARE	--	20 A	1			0			0	2	30 A	--	SPARE	G24
G25	SPARE	--	20 A	1	0			0							G26
G27	SPARE	--	20 A	1		0			0		1	20 A	--	SPARE	G28
G29	SPARE	--	20 A	1			0			0	1	20 A	--	SPARE	G30
G31	SPARE	--	100 A	3	0			400			1	20 A		DOOR ACCESS CONTROLS - T-112	G32
G33						0			400		1	20 A	--	MEETING RM CONTROLS - T-112	G34
G35							0			400	1	20 A		MEETING RM CONTROLS - T-112	G36
G37	SPARE	--	20 A	1	0			0			3	30 A	--	SPARE	G38
G39	SPARE	--	20 A	2		0			0						G40
G41							0			0					G42

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	400 VA
TOTAL CONNECTED LOAD PHASE B:	400 VA
TOTAL CONNECTED LOAD PHASE C:	400 VA
TOTAL CONNECTED LOAD:	1200 VA
TOTAL CONNECTED AMPS:	3.3 A

EX BASEMENT
EXISTING

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

NEW PANEL CL-2

LOCATION: CULINARY LAB-2
SUPPLY FROM: 11LD1
MOUNTING: RECESSED
ENCLOSURE: NEMA-1
A.I.C. RATING: 22000 A
NOTES:
PANEL SHALL BE PROVIDED AS A SINGLE, 84 CIRCUIT PANEL, A DOUBLE TUB PANEL IS NOT ALLOWED.
VOLTS: 120/208 Wye
PHASES: 3
MAINS TYPE: MLO
MAIN RATING: 400 A
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
B1	REC - T-140 - NW COUNTERTOP	--	20 A	1	800			4500			2	50 A	--	STOVE - T-140 NW.	B2
B3	REC - T-140 - NW MICROWAVE	GC	20 A	1		1700			4500						B4
B5	REC - T-140 - NE COUNTERTOP	--	20 A	1			1000			4500	2	50 A	--	STOVE - T-140 NE.	B6
B7	REC - T-140 - NE MICROWAVE	GC	20 A	1	1700			4500							B8
B9	REC - T-140 - E COUNTERTOP	--	20 A	1		800			4500		2	50 A	--	STOVE - T-140 W.	B10
B11	REC - T-140 - E MICROWAVE	GC	20 A	1			1700			4500					B12
B13	REC - T-140 - SE COUNTERTOP	--	20 A	1	800			4500			2	50 A	--	STOVE - T-140 SW.	B14
B15	REC - T-140 - SE MICROWAVE	GC	20 A	1		1700			4500						B16
B17	REC - T-140 - W COUNTERTOP	--	20 A	1			800			700	1	20 A		GAS STOVE - T-140 SE.	B18
B19	REC - T-140 - W MICROWAVE	GC	20 A	1	1700			700			1	20 A		GAS STOVE - T-140 SE.	B20
B21	REC - T-140 - SW COUNTERTOP	--	20 A	1		600			1896		1	20 A	--	MOBILE PROOFER CABINET - T-140	B22
B23	REC - T-140 - SW MICROWAVE	GC	20 A	1			1700			1920	1	20 A	--	CLOTHES WASHER - T-134	B24
B25	TV - T-140 W & SE	--	20 A	1	1200			2496			2	30 A	GC	CLOTHES DRYER - T-134	B26
B27	TV - T-140 N & E	--	20 A	1		1200			2496						B28
B29	DISHWASHER - T-140 W	GC	20 A	1			1500			264	1	20 A	--	CH-1	B30
B31	DISHWASHER - T-140 SW	GC	20 A	1	1500			1428			1	20 A	--	ICE MACHINE - T-114	B32
B33	REC - T-140 - S	--	20 A	1		600			1331		2	20 A	--	COFFEE MAKER - T-114	B34
B35	DEMO TABLE - T-140	--	20 A	1			1920			1331					B36
B37	HOOD H-1	--	20 A	1	427			--			1	--	--	SPACE	B38
B39	HOOD H-1	--	20 A	1		427			420		1	--	--	REFRIGERATED PREP TABLE - ...	B40
B41	HOOD H-1	--	20 A	1			427			2808	2	30 A	--	DIGITAL IMPINGER - T-113	B42
B43	HOOD H-1	--	20 A	1	427			2808							B44
B45	HOOD H-1	--	20 A	1		427			--		1	--	--	SPACE	B46
B47	HOOD H-1	--	20 A	1			427			1920	1	20 A	--	SERVING COUNTER - T-113	B48
B49	REC - T-141	--	20 A	1	200			--			1	--	--	SPACE	B50
B51	HAND DRYER - T-141	--	20 A	1		1400			400		1	20 A	--	REC - T-113 - TV	B52
B53	CORRIDOR RECEPTACLES	--	20 A	1			600			200	1	20 A	--	REC - ROOF - GEF-1/GEF-2	B54
B55	REC - T-143 - DESKS	--	20 A	1	400			4500			2	50 A		LTI DAISY CHAIN RECEPTACLE	B56
B57	REC - T-143 - DESKS	--	20 A	1		400			4500						B58
B59	REC - T-112	--	20 A	1			200			500	1	20 A		ROOF EXHAUST FAN	B60
B61	TEF-2	--	20 A	1	456			0			1	20 A	--	SPARE	B62
B63	REC - ROOF - TEF-2	--	20 A	1		200			0		1	20 A	--	SPARE	B64
B65	GEF-1	--	20 A	1			156			0	1	20 A	--	SPARE	B66
B67	GEF-2	--	20 A	1	180			0			1	20 A	--	SPARE	B68
B69	GEF-6	--	20 A	1		456			0		1	20 A	--	SPARE	B70
B71	REC - ROOF - GEF-6	--	20 A	1			200			--	1	--	--	SPACE	B72
B73	TEF-1	--	20 A	1	156			--			1	--	--	SPACE	B74
B75	REC - ROOF - TEF-1	--	20 A	1		200				--	1	--	--	SPACE	B76
B77	GEF-9	--	20 A	1			156			--	1	--	--	SPACE	B78
B79	CU-1	--	25 A	2	2090			--			1	--	--	SPACE	B80
B81						2090			--		1	--	--	SPACE	B82
B83	SPARE									--	1	--	--	SPACE	B84

AD-03

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	37469 VA
TOTAL CONNECTED LOAD PHASE B:	36744 VA
TOTAL CONNECTED LOAD PHASE C:	29430 VA
TOTAL CONNECTED LOAD:	103642 VA
TOTAL CONNECTED AMPS:	287.7 A

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

EX. PANEL 12H4

LOCATION: MECH U-200
SUPPLY FROM: EXISTING
MOUNTING: SURFACE
ENCLOSURE: NEMA-1
A.I.C. RATING: 22000 A
NOTES:
NEW CIRCUIT BREAKERS SHALL MATCH THE MAKE, MODEL, AND WITHSTAND RATING OF THE EXISTING PANELBOARD. VERIFY EXACT CONDITIONS IN FIELD.
VOLTS: 480/277 Wye
PHASES: 3
MAINS TYPE: MLO
MAIN RATING: 125 A
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	AH-U-4	RP	20 A	3	3797			3409			3	15 A	RP	AH-U-5	2
3						3797			3409						4
5							3797			3409					6
7	EX. LIGHTS U-200	--	20 A	1	0			0			1	20 A	--	EX. SPARE	8
9	EX. SPARE	--	20 A	1		0			0		1	20 A	--	EX. SPARE	10
11	EX. SPARE	--	20 A	1			0			0	1	20 A	--	EX. SPARE	12
13	EX. SPARE	--	20 A	1	0			0			1	20 A	--	EX. SPARE	14
15	EX. SPARE	--	20 A	1		0			0		1	20 A	--	EX. SPARE	16
17	EX. SPARE	--	20 A	1			0			0	1	20 A	--	EX. SPARE	18

LEGEND:
RP = PROVIDE NEW CIRCUIT BREAKER REPLACING EXISTING CIRCUIT BREAKER
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	7205 VA
TOTAL CONNECTED LOAD PHASE B:	7205 VA
TOTAL CONNECTED LOAD PHASE C:	7205 VA
TOTAL CONNECTED LOAD:	21616 VA
TOTAL CONNECTED AMPS:	26 A

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PROJECT
25-181
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07/14/26
COORDINATED BY
RH
DRAWN BY
BR
CHECKED BY
DJ

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

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DRAWING
ELECTRICAL SCHEDULES

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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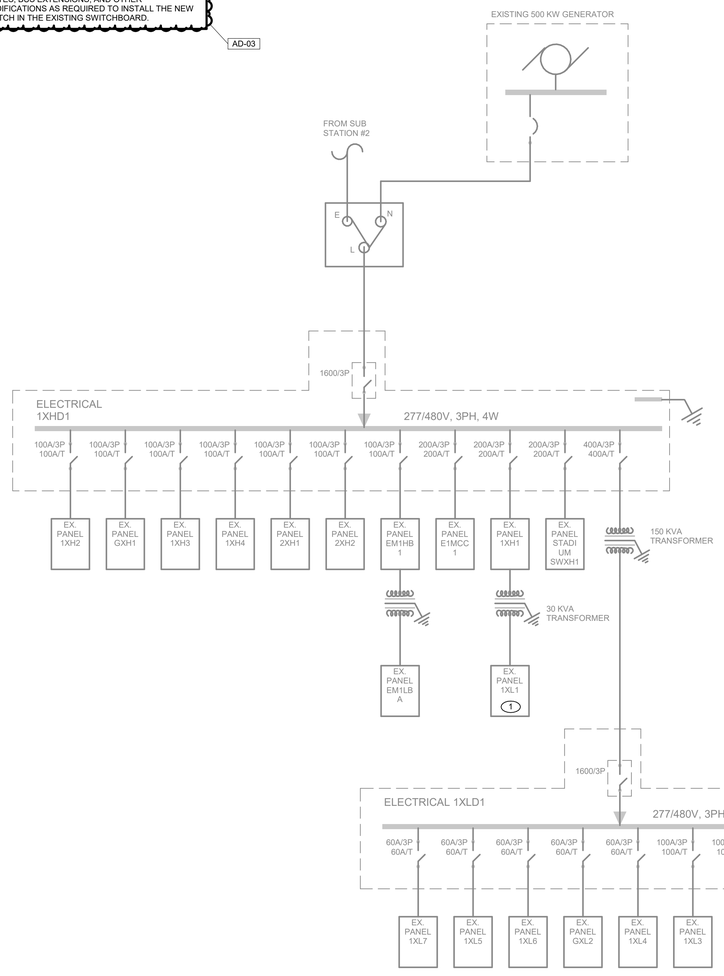
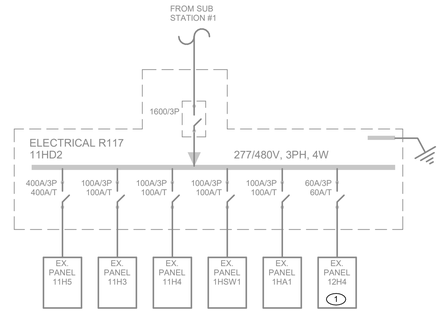
ELECTRICAL ONE-LINE SCHEMATIC DIAGRAM

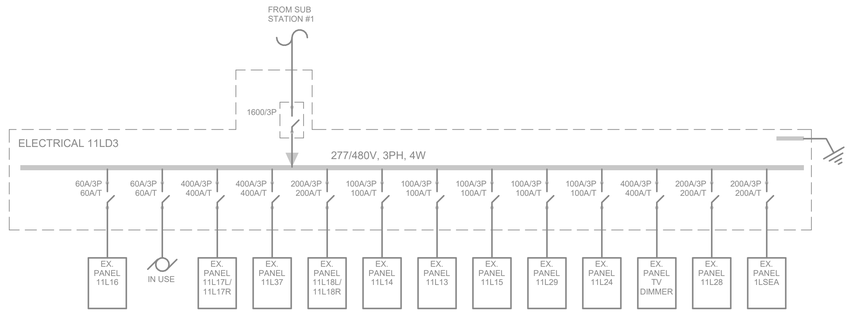
DETAIL NOTES

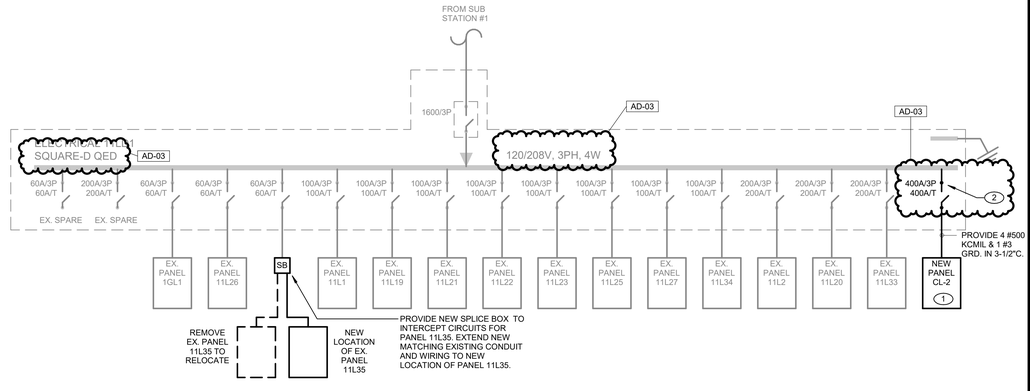
1. PANEL HAS REVISED BREAKERS. REFER TO PANEL
2. PROVIDE A CUSTOM SWITCH PROVIDED BY CHICAGO SWITCHBOARD OR EQUAL. PROVIDE NEW COVER PLATES, BUS EXTENSIONS, AND OTHER MODIFICATIONS AS REQUIRED TO INSTALL THE NEW SWITCH IN THE EXISTING SWITCHBOARD.

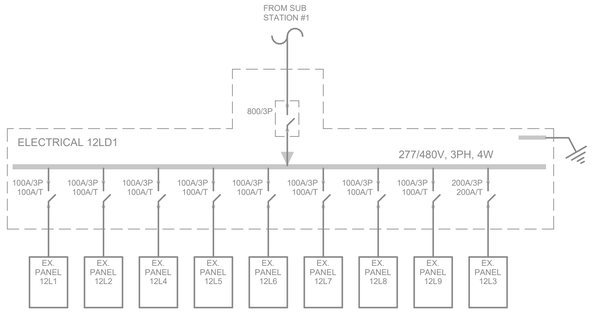
AD-03

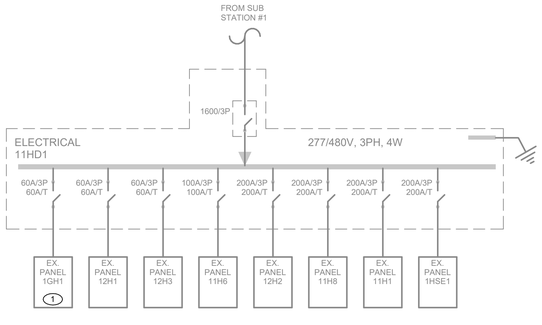


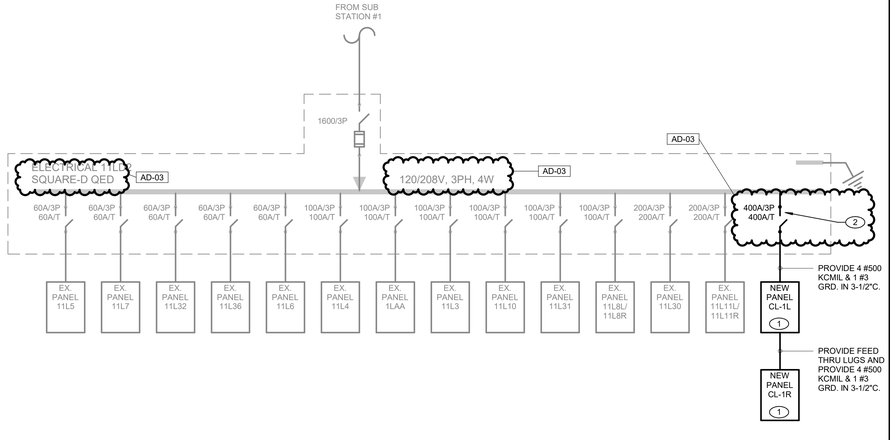












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DRAWING
ELECTRICAL DETAILS & DIAGRAMS

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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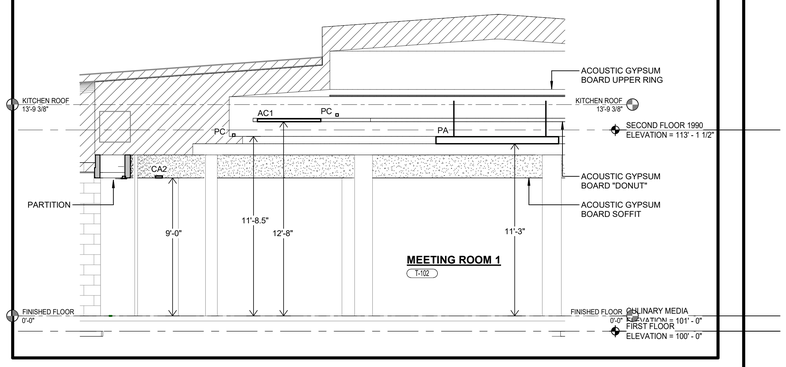
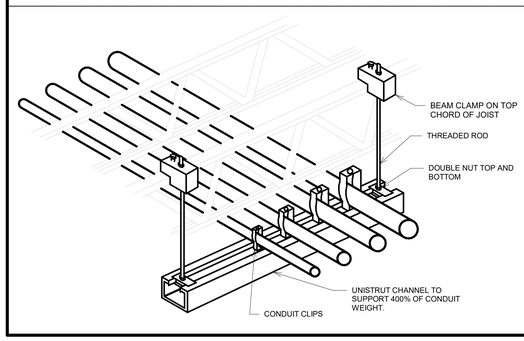
SECTION 04 - MEETING ROOM 1



2½" AND LARGER CONDUIT SUPPORT DETAIL



TYPICAL CLASSROOM WIRED LOW VOLTAGE CONTROL SYSTEM

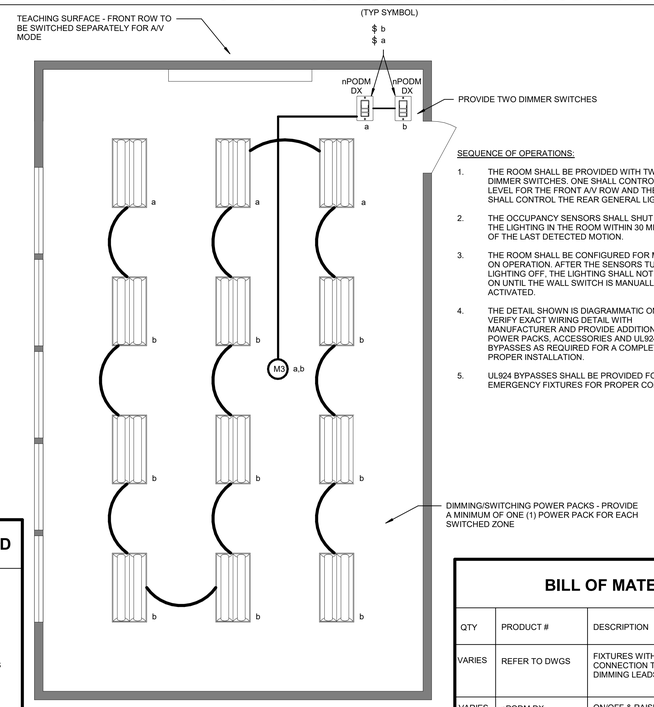


DIAGRAM LEGEND

- CAT-5e CABLE (IN CONDUIT AS REQUIRED)
- LINE VOLTAGE WIRES AND DIMMING LEADS TO POWER PACKS
- LINE POWER

SEQUENCE OF OPERATIONS:

1. THE ROOM SHALL BE PROVIDED WITH TWO DIMMER SWITCHES. ONE SHALL CONTROL THE LEVEL FOR THE FRONT A/V ROW AND THE OTHER SHALL CONTROL THE REAR GENERAL LIGHTING.
2. THE OCCUPANCY SENSORS SHALL SHUT OFF THE LIGHTING IN THE ROOM WITHIN 30 MINUTES OF THE LAST DETECTED MOTION.
3. THE ROOM SHALL BE CONFIGURED FOR MANUAL ON OPERATION. AFTER THE SENSORS TURN LIGHTING OFF, THE LIGHTING SHALL NOT TURN ON UNTIL THE WALL SWITCH IS MANUALLY ACTIVATED.
4. THE DETAIL SHOWN IS DIAGRAMMATIC ONLY. VERIFY EXACT WIRING DETAIL WITH MANUFACTURER AND PROVIDE ADDITIONAL POWER PACKS, ACCESSORIES AND UL924 BYPASSES AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION.
5. UL924 BYPASSES SHALL BE PROVIDED FOR ALL EMERGENCY FIXTURES FOR PROPER CONTROL.

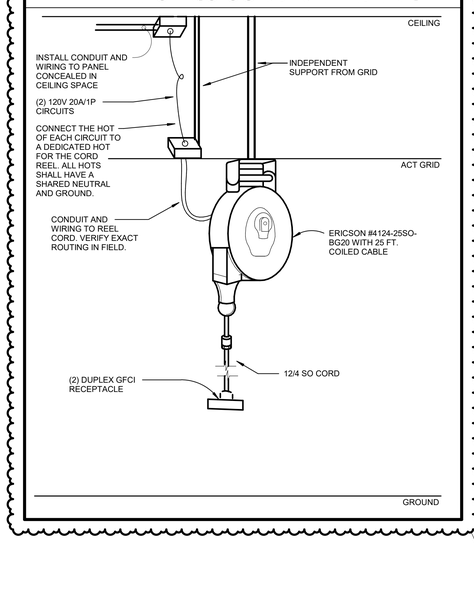
NOTES:

1. THE LIGHTING CONTROL SYSTEM SHALL BE A LOW VOLTAGE STAND ALONE ACUITY N-LIGHT WIRED SYSTEM COMPLETE WITH KEYPADS, SENSORS, POWER PACKS, EMERGENCY ACCESSORIES, ETC. SYSTEM TO BE PROVIDED WITH COMPONENTS AND ACCESSORIES AS REQUIRED TO PROVIDE FUNCTIONALITY PER THE CONTRACT DOCUMENTS AND IECC REQUIREMENTS.
2. LIGHTING CONTROL EQUIPMENT WILL BE CONSIDERED FROM THE FOLLOWING MANUFACTURERS: HUBBELL CONTROLS, LEVITON, LUTRON OR CRESTRON. THE SUBMITTED LIGHTING CONTROL SYSTEM SHALL PROVIDE FULL LIGHTING CONTROL FUNCTIONALITY AS SPECIFIED.
3. BECAUSE OF DIFFERENCES BETWEEN MANUFACTURERS, DIAGRAMS SHOWN ARE DIAGRAMMATIC AND MAY NOT SHOW ALL PARTS AND ACCESSORIES REQUIRED. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH LIGHTING CONTROL MANUFACTURER AND CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE ALL PARTS AND ACCESSORIES REQUIRED FOR A COMPLETE AND PROPERLY OPERATING SYSTEM AS SHOWN ON CONTRACT DOCUMENTS. VERIFY ALL CONDITIONS AND REQUIREMENTS, COMPLETE AS REQUIRED.
4. NO EXTRAS SHALL BE ALLOWED AFTER BIDDING FOR NOT FULLY UNDERSTANDING THE SCOPE OF WORK INVOLVED OR TO FULLY ACCOMPLISH THE SWITCHING SCHEME SHOWN ON THE CONTRACT DOCUMENTS.
5. UL924 BYPASS DEVICES SHALL BE PROVIDED FOR ALL FIXTURES WITH AN EMERGENCY SOURCE OF POWER THAT IS SWITCHED. THE UL924 BYPASS SHALL PROVIDE BYPASS FOR BOTH THE POWER AND CONTROL SIGNAL, COMPLETE AS REQUIRED.
6. ALL LOW VOLTAGE CABLING SHALL BE PLENUM RATED. CABLING ROUTED IN CONCEALED AREAS SHALL BE ROUTED NEATLY EXPOSED WITHIN J-HOOKS. CABLING LOCATED IN EXPOSED CEILINGS SHALL BE CONCEALED IN NEATLY ROUTED CONDUIT. LOW VOLTAGE CABLING INSTALLATION SHALL FULLY MEET LOCAL CODE REQUIREMENTS.
7. ALL SWITCHES IN RESTROOMS, STORAGE CLOSETS, MECHANICAL/ELECTRICAL ROOMS AND OTHER BACK OF HOUSE SPACES SHALL BE N-LIGHT ON/OFF SWITCHES. ALL OTHER SWITCHES SHALL BE N-LIGHT LOW VOLTAGE DIMMER SWITCHES AND SHALL PROVIDE FIXTURE DIMMING FUNCTIONALITY.

BILL OF MATERIAL

QTY	PRODUCT #	DESCRIPTION
VARIES	REFER TO DWGS	FIXTURES WITH N-LIGHT POWER PACK CONNECTION TO POWER AND DIMMING LEADS
VARIES	nPODM DX	ON/OFF & RAISE/LOWER WALL POD

ELECTRIC CORD REEL DETAIL



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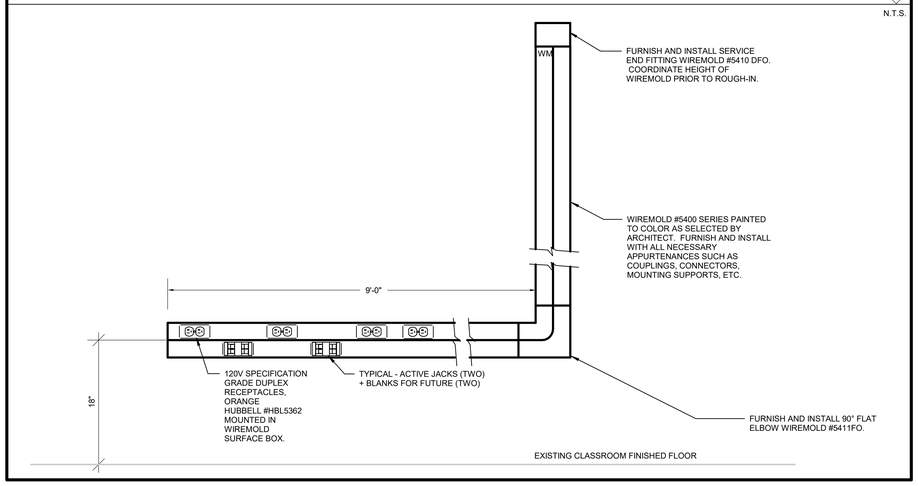
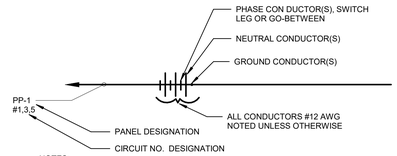
WIREMOLD DETAIL

5

N.T.S.



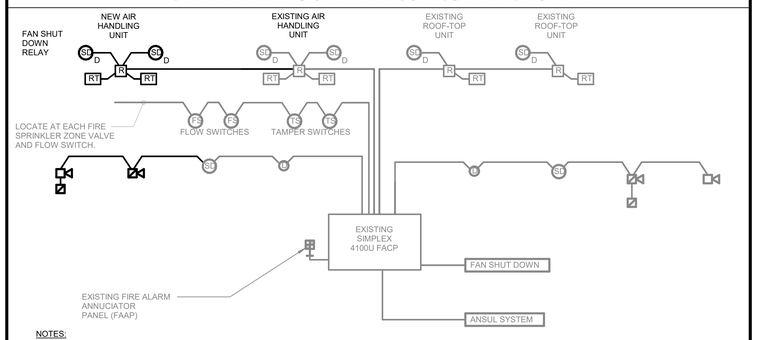
KEY TO ELECTRICAL CIRCUIT WIRING



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.

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. ELECTRICAL CONTRACTOR SHALL FURNISH DUCT SMOKE DETECTORS. MECHANICAL CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTOR AND ELECTRICAL CONTRACTOR SHALL MAKE FINAL WIRING CONNECTIONS AS REQUIRED. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF DUCT SMOKE DETECTORS.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE INTERLOCKING BETWEEN DUCT SMOKE DETECTORS, FIRE ALARM CONTROL PANEL, AIR HANDLING UNITS, ROOF-TOP UNITS, ANSUL SYSTEM AND FAN SHUT DOWN RELAYS SO THAT UPON ACTIVATION OF FIRE ALARM SYSTEM, ALL AIR HANDLING EQUIPMENT AND SMOKE/FIRE DAMPER SHALL SHUT DOWN. ALL AIR HANDLING EQUIPMENT SHALL START AUTOMATICALLY (AND SEQUENTIALLY) UPON RESETTING OF THE FIRE ALARM SYSTEM.
4. ELECTRICAL CONTRACTOR SHALL CONNECT SMOKE/FIRE DAMPERS THROUGHOUT FACILITY TO CLOSE DAMPERS UPON ACTIVATION/ALARM OF SMOKE DUCT DETECTOR MOUNTED IN DUCT AHEAD OF RESPECTIVE DAMPER OR LOCAL SMOKE DETECTORS, COMPLETE AS REQUIRED. VERIFY LOCATION AND QUANTITIES ON MECHANICAL AND ARCHITECTURAL PLANS AND IN FIELD. INTERLOCK SMOKE DUCT DETECTORS AND DAMPERS WITH FIRE ALARM CONTROL PANEL, COMPLETE AS REQUIRED.
5. 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.

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ELECTRICAL DETAILS & DIAGRAMS

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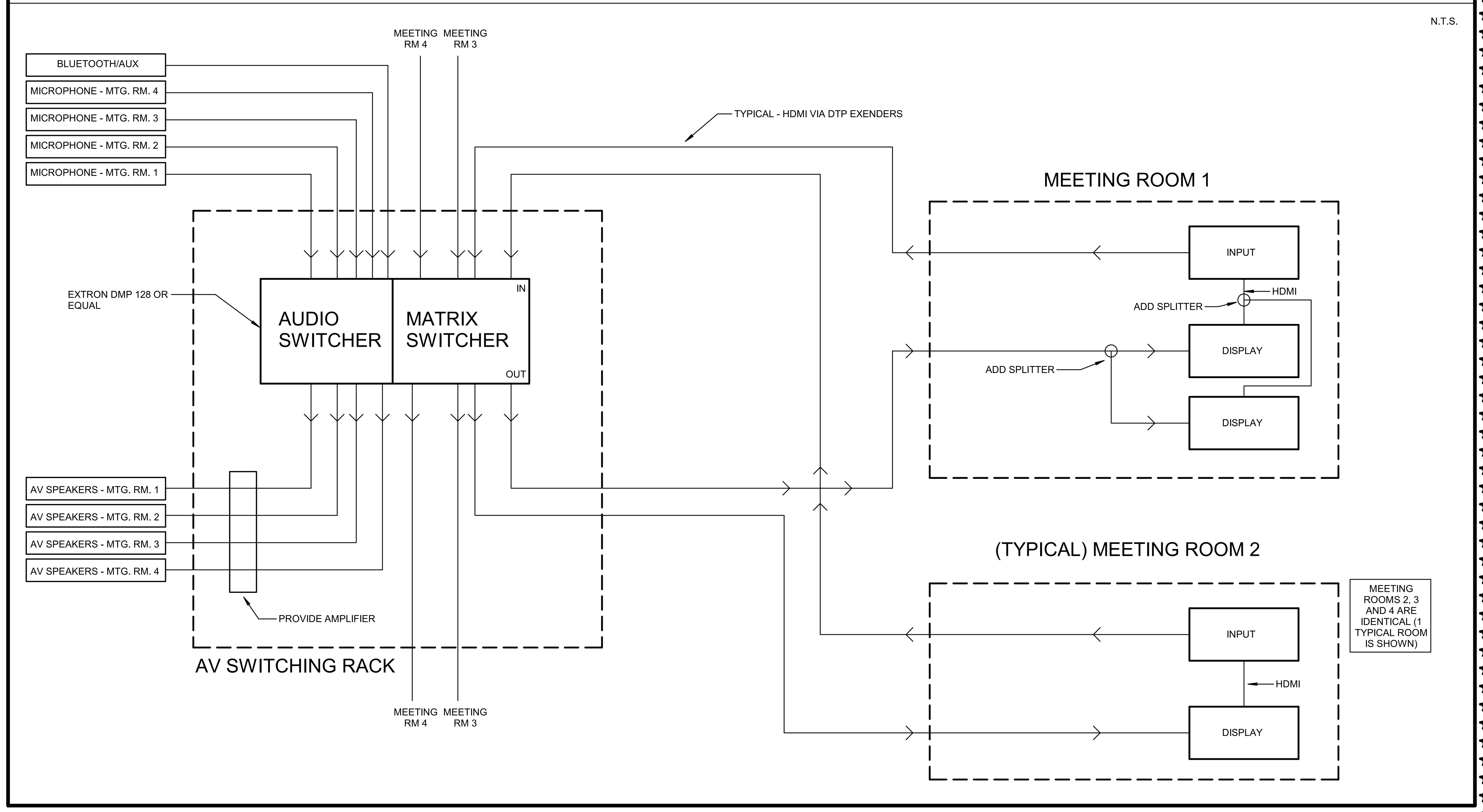
AV SWITCHING RACK WIRING DIAGRAM



AD-03

TECHNOLOGY SYMBOL LIST

SECURITY

Symbol	Description
CA	CARD ACCESS CONTROLLER - PROVIDE BACK BOX MOUNTED 42" A.F.F. WITH 3/4"C. ROUTED TO THE ACCESSIBLE CEILING SPACE. REFER TO THE DOOR ACCESS DETAIL FOR ADDITIONAL INFORMATION.
L	ELECTRIC DOOR STRIKE - STUB 3/4" CONDUIT FROM THE ACCESSIBLE CEILING SPACE TO THE DOOR MULLION FOR WIRING. INTERFACE WIRING FROM THE DOOR STRIKE TO THE DOOR ACCESS SYSTEM FOR A COMPLETE AND PROPERLY OPERATING SYSTEM.
(camera)	SURVEILLANCE CAMERA - INTERIOR CEILING MOUNTED DOME CAMERA FURNISHED BY OWNER - PROVIDE 2-GANG BACK BOX WITH SIMPLEX DATA OUTLET WITH 3/4"C. ROUTED TO THE ACCESSIBLE CEILING SPACE. REFER TO THE DUPLEX DATA OUTLET SYMBOL FOR ADDITIONAL INFORMATION.
(wall camera)	SURVEILLANCE CAMERA - INTERIOR WALL MOUNTED DOME CAMERA FURNISHED BY OWNER - PROVIDE 2-GANG BACK BOX WITH SIMPLEX DATA OUTLET WITH 3/4"C. ROUTED TO THE ACCESSIBLE CEILING SPACE. REFER TO THE DUPLEX DATA OUTLET SYMBOL FOR ADDITIONAL INFORMATION.
DC	SECURITY SYSTEM DOOR CONTACT - ROUGH-IN ONLY - ROUTE 3/4"C FROM THE ACCESSIBLE CEILING SPACE AND STUB INTO THE DOOR MULLION.
WP	EXTERIOR 180 DEGREE SURVEILLANCE CAMERA FURNISHED BY OWNER - PROVIDE EXTERIOR CAMERA WALL MOUNT BRACKET - MOUNTED 12'-0" A.F.F., VERIFY HEIGHT IN FIELD. PROVIDE 2-GANG BACK BOX OR BACK BOX AS REQUIRED BY CAMERA MANUFACTURER. COORDINATE EXACT BACK BOX CONFIGURATION WITH CAMERA MOUNT TO ENSURE BACK BOX IS CONCEALED BEHIND ARM MOUNTING PLATE. PROVIDE SIMPLEX DATA OUTLET WITH 3/4"C ROUTED TO THE ACCESSIBLE CEILING SPACE. REFER TO THE DUPLEX DATA OUTLET SYMBOL FOR ADDITIONAL INFORMATION.
DIS	DISPLAY CAMERA CANNON CR-N300 - INTERIOR CEILING MOUNTED PTZ CAMERA - PROVIDE DUPLEX OUTLET MOUNTED IN A STAINLESS STEEL CEILING TILE COVER PLATE. PROVIDE SEPARATE 2-GANG BACK BOX WITH USB-C INPUT EXTENDER. ROUTE USB-C ACTIVE OPTICAL CABLE BEHIND THIS COVER PLATE, THROUGH THE CONDUIT, TO THE TEACHING STATION AND LEAVE 10' SLACK LENGTH FOR CONNECTION TO THE TEACHER'S PC VIA THE USB JACK IN THE COVER PLATE. PROVIDE A DUPLEX DATA OUTLET UNDER THE SAME COVER AS THE USB INPUT. ONE JACK SHALL BE CONNECTED TO THE IDF, REFER TO THE DUPLEX DATA OUTLET FOR ADDITIONAL INFORMATION. THE SECOND JACK SHALL BE CONNECTED TO THE TEACHING STATION. REFER TO THE TEACHING STATION DETAIL FOR ADDITIONAL INFORMATION.

COMMUNICATIONS

Symbol	Description
▽	DUPLEX 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.
▽ WT	DUPLEX DATA OUTLET FOR WIRELESS ACCESS POINTS - LOCATED ABOVE ACCESSIBLE CEILING SPACE AND 6" ABOVE THE GRID OR TIGHT TO THE ROOF DECK WHERE NO CEILINGS EXIST. PROVIDE 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. PROVIDE CAT-6 PLENUM CABLE, FROM EACH JACK, TO NEAREST MDF OR IDF LOCATION INDICATED ON PLANS. TERMINATE WITH RJ-45 CAT-6 JACK. TEST AND LEAVE 10' SLACK LENGTH.
(wall TV)	FLUSH IN WALL "TV" PANEL CONSISTING WITH SEPARATE 2-GANG BACK BOX WITH DATA JACK AND CABLING BACK TO IDF/MDF AS INDICATED IN THE DATA JACK SYMBOL. STUB 1" CONDUIT TO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. MOUNT DEVICE AT 7'-0" A.F.F. AND COORDINATE MOUNTING HEIGHT WITH THE ARCHITECTURAL ELEVATIONS. PROVIDE THE FIT EXTENDING TILTING WALL MOUNTING #RLXT3 AND ALL ASSOCIATED HARDWARE AND MOUNTING EQUIPMENT TO ALL LOCATIONS IN CLASSROOMS AND CULINARY LABS. VERIFY WITH OWNER'S REPRESENTATIVE IN FIELD PRIOR TO ORDERING FOR EXACT LOCATIONS.
(wall projector)	WALL MOUNTED PROJECTOR LOCATION WITH SEPARATE BACK BOX WITH LOW VOLTAGE JACKS AND COVERPLATE. SUPPORT BOXES FROM STRUCTURE WITH UNISTRUT AS REQUIRED. SEE TEACHER STATION AND PROJECTOR DETAIL FOR ADDITIONAL INFORMATION.
(ceiling projector)	CEILING MOUNTED PROJECTOR LOCATION WITH SEPARATE BACK BOX WITH LOW VOLTAGE JACKS AND COVERPLATE. SUPPORT BOXES FROM STRUCTURE WITH UNISTRUT AS REQUIRED. SEE TEACHER STATION AND PROJECTOR DETAILS FOR ADDITIONAL INFORMATION.
(floor box)	WIREMOLD #RFBA4 SERIES FLUSH FLOOR BOX WITH TWO (2) DATA JACKS. 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. STUB 1-1/4" CONDUITS FROM THE LOW VOLTAGE SECTION OF THE OF THE BOX TO THE ACCESSIBLE CEILING SPACE. PROVIDE SCRUB-RESISTANT COVER AND COORDINATE FINISH WITH ARCHITECT.
S AV	AV CEILING SPEAKERS - WITH AIR PLENUM BACK BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. MOUNT IN SURFACE BOX WHERE NO CEILINGS EXIST. REFER TO LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION ON MEETING ROOM AV SYSTEM.
S	INTERCOM CEILING SPEAKERS - WITH AIR PLENUM BACK BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. MOUNT IN SURFACE BOX WHERE NO CEILINGS EXIST. PROVIDE WHITE ATLASIED SD72W 8" DUAL CONE RECESSED CEILING MOUNTED LOUDSPEAKER WITH TRANSFORMER AND BAFFLE. EXTEND MANUFACTURER'S REQUIRED WIRING TO THE EXISTING INTERCOM SPEAKER NETWORK IN THIS AREA AND CONNECT. PROVIDE ALL PROGRAMMING AS REQUIRED TO INTERFACE TO THE EXISTING INTERCOM SYSTEM.
(switch)	INTERCOM PRIVACY CALL-IN SWITCH - MOUNTED 42" A.F.F. PROVIDE 2-GANG BACK BOX WITH SINGLE GANG MUD RING WITH 3/4" CONDUIT ROUTED TO THE ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
(clock/speaker)	WALL MOUNTED DIGITAL CLOCK/SPEAKER UNIT. PROVIDE BACK BOX WITH 3/4" CONDUIT ROUTED TO THE ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
*	TEACHER PANEL WITH TWO (2) DUPLEX RECEPTACLES. SEE TEACHER STATION AND PROJECTOR DETAIL FOR ADDITIONAL INFORMATION. REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
WH	CARD ACCESS WIRELESS HUB, PROVIDE 1 CAT6 DATA, AND 1 120V POWER CONNECTION. PROVIDE (2) #14 TO ASSOCIATED PANIC HARDWARE.
(ceiling TV)	CEILING MOUNTED "TV" PANEL LOCATION WITH SEPARATE 2-GANG BACK BOX WITH DATA JACK AND CABLING BACK TO IDF/MDF AS INDICATED IN THE DATA JACK SYMBOL. PROVIDE THE WIREMOLD 'FIT' SERIES SINGLE CEILING MOUNT AND ALL ASSOCIATED HARDWARE AND MOUNTING EQUIPMENT TO RIGIDLY SUSPEND THE MOUNT FROM THE CEILING STRUCTURE, INDEPENDENT OF THE CEILING GRID. SUPPORT FROM STRUCTURE WITH UNISTRUT OR THREADED RODS AS REQUIRED.
CC	CEILING MOUNTED CORRIDOR CLOCK BY AMERICAN TIME. PROVIDE #3WD462RCB OR APPROVED EQUAL. CLOCK SHALL BE DOUBLE SIDED WITH RED LETTERING. CONNECT VIA 24V ADAPTER TO NEAREST CORRIDOR GENERAL 120V CIRCUIT. CONNECT TO NEAREST CORRIDOR CLOCK CONNECTION OR PROVIDE WIRELESS CONNECTION TO THE EXISTING BUILDING CONTROLLER FOR SYNCRONIZATION.

AD-03

LOW VOLTAGE GENERAL NOTES

1.00 PART 1 - GENERAL
1.01 SCOPE:
A. The General Provisions of the Contract, including Conditions of the Contract and Division 1 of the Contract Documents, apply to the work in this section.
B. Electrical Work General Provisions shall apply to the work specified in this section.
1.02 SCOPE OF WORK:
A. The contractor shall furnish equipment and labor necessary for and reasonably incidental to the complete installation of the communications systems as outlined in the following contract documents including, but not limited to:
1. Data wiring systems.
2. A/V switching matrix - EXTRON DTP Crosspoint 4K 108 & DMP 128 or approved equals
B. Installation of the systems shall be as outlined in the following contract documents, including but not limited to:
1. Submission of shop drawings, catalog sheets and samples for approval.
2. Verification of dimensions and conditions at project site.
3. Installation in accordance with contract documents, manufacturer's recommendations and applicable code requirements.
4. Initial test and adjustments, written report, demonstration of systems for approval, participation in acceptance tests, final adjustments as required, and submission of final diagrams and Owner's manuals. Demonstration must be videotaped and two (2) copies provided to the Owner's Representative.
5. Instruction of operating personnel. Provide a minimum of 4 hours of demonstration and instruction.
6. Maintenance services for one (1) year following acceptance of systems.
7. Auxilliary panels, etc. shall be stainless steel. Also, silkscreen graphics shall be provided as designed and approved.
C. Provide an A/V switching system that is stand alone for the meeting spaces:
1. The switching matrix shall be capable of handling 10 inputs and providing 8 outputs. Every input station (located below each TV - see floor plan) shall have an HDMI cable run back to the master A/V station for connection. Where the quantity of A/V inputs exceeds the available inputs, the owner shall verify what locations are to be connected in the field and the remaining inputs shall be left, coiled neatly, for future connection if desired. Every TV and projector shall have an HDMI cable run back to the master A/V station for connection. Where the quantity of A/V outputs exceeds the available outputs, the owner shall verify what locations are to be connected in the field and the remaining outputs shall be left, coiled neatly, for future connection if desired. DTP converters shall be provided at the switching matrix for connection to the DTP inputs and outputs. Additionally, each TV shall have a separate HDMI connection to the input station below the TV and the projector shall have 2 HDMI inputs run to two of the input stations to be determined by the owner in field. The speaker system shall also be connected to one of the switching matrix outputs and the wireless microphone shall be connected to one of the switching matrix inputs.
2. The touch screen controllers shall be capable of selecting any connected input and connecting it to any output in the space as well as selecting which input's sound is projected from the speaker system.
3. The TV input stations shall either be two adjacent back boxes with the quad outlet and data components in their own common cover plates with the data and 2 HDMI connections or shall be a single component with low voltage separators.
D. Switching System
1. Provide electrical boxes, conduit as required for the AVD system equipment. Furnish audio, video and data systems wiring and receptacles as indicated
A. The access panels below each tv shall contain the devices shown in the meeting input station detail
B. TV Panels - shall contain the devices shown in the meeting TV detail
C. The panels shall be under a common cover plate and finished as directed
D. All HDMI ports and cables shall be 4K Ultra HDMI
E. Verify colors with Architect during shop drawing phase.
2. AV System Cabling
A. Provide UltraHD HDMI Cables for the local connections from access panels to their associated TV.
B. Provide DTP extenders and DTP plenum cabling for all HDMI connections from the access panels or floor boxes or projectors to the AV controller.
3. AV System
A. Provide Extron DTP Crosspoint 108 4K Switching Matrix system with 10 inputs and 10 outputs
B. Install all cabling, extenders, etc as required from each location to the switch and verify with the owner which locations shall be connected prior to final programming. Leave the remaining connections with enough spare cable length for future connection.
4. Provide (2) 7" touchscreen controllers. Verify final location of these devices in the field.
A. Verify exact locations in field with owner's IT representative and provide mounting hardware as required. Provide back boxes and recessed conduit stubbed into the accessible ceiling space for any wall mounted locations.
5. Speakers
A. Provide Bose 791 or approved equal ceiling speakers in the meeting rooms as shown with wiring, amplifiers, and all required hardware and cabling for connection to one switching matrix output per meeting room.
B. Not used.
6. Enclosure and Additional Components
A. Provide wall mounted rack with tinted door and lock with sufficient space for all components and 20% spare.
B. Provide network switch(es) as required.
C. Provide Bluetooth and Aux (3.5mm) connectors.
D. Provide processor, amplifiers, patch cords (types as required), DTP extenders, wiring, mounting accessories, cable managers, etc. as required for a complete and operating system.
E. Verify all input and output locations with the owner prior to any programming.
F. Provide all programming and owner training (minimum 6 hours).
G. Wireless Microphones
a. Provide one Shure WL185 lapel microphone and one Shure SLXD2/SM58 wireless handheld mic for each meeting room and 1 spare (5 of each).
b. Provide charging stations, batteries, transmitters, receivers, antennas, and all additional components as required to interface with the switching matrix.
7. Meeting room sound system
A. Any local music or audio to be played shall be from one of the HDMI inputs or the bluetooth and AUX connections.
8. Provide a local timer override switch (6 hours) adjacent to the light switch in this space. Switch shall be 24V with a 12V contact. Provide enclosure, wiring, relays, and contacts as required to interface with the existing building notification system. Provide programming as required to program normal notification override only. Emergency announcements shall not be overwritten.

1.03 STANDARDS:
A. The above equipment shall be installed in the conduit systems as indicated on the contract documents and hereinafter specified. The manufacturer's distributor shall guarantee the entire system for two (2) years against defects in material and workmanship.
B. Individual panels, housings and the entire system shall bear the label of Underwriters' Laboratories. Provide a complete set of operating instructions including circuit diagrams and other information necessary for proper installation, operation, and service maintenance.
1.04 FIELD QUALITY CONTROL:
A. The manufacturer's authorized representative shall perform a quality observation of final installation of systems herein specified and, in presence of contractor and Owner's Representative, perform a functional test of each system.
B. A written system certification verifying proper system operation shall be required prior to acceptance.
C. Show satisfactory evidence of maintaining a service organization capable of furnishing adequate observation and service to equipment and be prepared to offer service contract for maintenance of system after guarantee period.
2.00 DATA WIRING SYSTEMS:
2.01 DESCRIPTION:
A. Provide devices and wiring for installation of the computer/data/telephone wiring system as described herein and as shown on the contract documents.
B. Cabling, risers, station wiring, cross connects, outlets, patch panels and necessary devices shall conform to Category 6 or Level 7 standards as defined in EIA/TIA 568B, TSB-36 and TSB-40. All cabling shall be Category 6 unless specifically noted otherwise.
C. Contract documents are written for a Hubbell solution. Connectivity solutions manufactured by Leviton/BerkTek, Superior Essex/Ortronics, and Panduit shall be considered equal if the equipment submitted is equal in each respect.
2.02 WORK BY OTHERS:
A. The Owner shall furnish and install the LAN file servers, network switches, and network electronics.
2.03 QUALITY ASSURANCES:
A. Items including wiring and required accessories for the data and telephone wiring system shall be designed to operate as a complete integrated system.
B. The system shall meet or exceed applicable state and local codes.
C. The data and telephone network wiring system shall meet U.L. standards.
D. Provide information indicating a minimum of five (5) years experience and a minimum of twenty (20) installations of this size and scope.
2.04 REQUIRED BID DOCUMENTS:
A. Submit with their bid the following additional information to determine the most responsive proposal to these contract documents:
1. Documentation to support the experience requirements listed above. This documentation shall include the name of the project, contact person with telephone number, contract dollar amount, total data outlets, total telephone outlets, category of cable and project completion date. Failure to submit this required information may result in rejection of bid.
B. Submit with their bid the name and registration number of the RCDD on staff.
C. Submit proper documentation to prove manufacturer's certification for installation of products herein.
2.05 CONDITIONS OF AWARD:
A. The contract shall be awarded on the basis of the lowest and most responsive bid proposal complying with the contract documents and the following criteria:
1. References.
2. Experience with similar projects.
3. Compliance with contract documents.
4. Financial strength.

2.06 SUBMITTALS:
A. Furnish complete shop drawings on the various components of the system. These submittals shall include but not be limited to the following:
1. Marked catalog sheets indicating part numbers and manufacturer.
2. Riser diagram for entire data/telephone wiring system.
3. Each drawing shall have a descriptive title and subparts of each drawing shall be completely described. Drawings shall have the name of the project and electronics contractor in the title block.
4. Prior to final acceptance, submit three complete copies of an operating and maintenance manual for the systems.
2.07 DATA AND TELEPHONE STATION OUTLETS:
A. Provide a flush mounted modular data or telephone RJ45 jack to fit in a single gang box or in surface raceway for an 8-position/8-conductor configuration. The outlets shall meet transmission performance contract documents for category 6 as presented in EIA/TIA TSB-36 and TSB-40. The RJ45 jacks shall be keyed T568B.
1. Data and telephone jacks shall be of one (1) manufacturer.
2. The final installation shall be tested to meet the installed system overhead as published in literature from the manufacturer. Installation not meeting this requirement shall be completely removed and reinstalled with new product until these variables are met at frequencies.
B. Data frames shall contain 1-4 modular openings. These units to be the same manufacturer as the jacks.
2.08 DEVICE COLOR SELECTION
A. Determination of colors of devices provided within this section shall be made during the shop drawing process.
2.09 PATCH PANELS:
A. Provide 48 port 110 patch panels that meet transmission performance for category 6 or level 7 as outlined in EIA/TIA TSB-36 and TSB-40. Provide 40% expansion capability.
1. Standard: Hubbell.
B. Provide vertical wire management devices to properly restrain and organize cables prior to installation. Provide one (1) for each patch panel.
1. Standard: Hubbell.
2. Provide sufficient patch panels plus 40% expansion required to distinctly separate devices into the categories below. Verify with the owner prior to installing, and label all patch panels for each use.
a. Wireless access point outlets
b. Cameras & Security
c. Data outlets & other misc. devices
2.10 DATA AND TELEPHONE CABLE:
A. Twisted pair (STP) extended distance plenum rated Lan cable ISOC 24 AWG category 6 or level 7, solid bare CU, FEP insulation, Flamarrest KJT, 4 pair, UL type CMP with transmission characteristics that exceed those in EIA/TIA TSB-36 and TSB-40 (category 6) and NEMA loss extended frequency 2. UTP cable may be provided for individual systems (Cameras, Data Jacks, etc) with written approval from the owner's vendors for each system. Provide a credit for any changes.
1. The data and telephone cables shall be terminated at each outlet and on rack mounted patch panels in each IDF and the MDF.
2. The telephone cables terminating in each IDF and MDF shall be cross connected to rack mounted patch panels with CAT-6 jacks.
3. The final installation shall be tested to meet the installed system overhead as published in literature from manufacturer. Installation not meeting this requirement shall be completely removed and reinstalled with new product until these variables are met at frequencies.
2.11 FIBER OPTIC CABLE (Backbone):

1.	Number of fibers	6 strand multimode
2.	Cable construction	Aramid yarn
3.	Jacket material & color:	Fluoropolymer & white
4.	Standard:	Lucent LightGuide
5.	Approved equal:	General or BerkTek

2.12 MULTI-PAIR TELEPHONE CABLE:
A. Not Used.
2.13 PATCH CORDS:
A. Provide patch cords as described below and as required prior to submittals.
1. Provide (2) CAT 6 patch cords per data outlet plus 20% spare, blue/yellow color & molded boots. Exact lengths to be determined prior to order, minimum 6'-0".
2. Standard: Hubbell
3. Provide RJ45 to 110 patch cords as required in each IDF compliant with the transmission contract documents.
4. Provide fiber patch cords in lengths required. Quantity (4).
5. Standard: Hubbell.
2.14 FIBER OPTIC CONNECTOR PANELS:
A. The fiber optic connector panels shall utilize field installable connectors and shall be mounted in 19" equipment racks.
B. The fiber optic connector panels shall accept up to (12) SC type interconnect sleeves.
1. Standard: Hubbell.
2.15 FIBER OPTIC TERMINATION:
A. Terminate fiber optic cables at each end utilizing epoxy type connectors.
B. Connections shall utilize an SC type stainless steel with ceramic ferrule and bend limiting strain relief. Plastic or composite interior construction is not acceptable.
2.16 DATA CABLE FINISHES:
A. Verify all owner standards with the owner's IT representative prior to ordering any cabling.
B. Finishes
1. Cameras – YELLOW
3. All Other Devices - BLUE
2.17 INSTALLATION:
A. Conduit, J-hooks, and raceways required for the computer data/telephone wiring system shall be provided and installed.
B. Conduits for the station outlets shall be installed from the outlet box and terminate above ceilings, with insulated bushings.
C. Verify that the computer data wiring runs do not exceed 90 meters prior to installation
D. Underground Installations:
1. Provide underground warning tape along entire conduit length where not concrete-encased.
2. Provide copper conductor for use with toning location in conduit systems where only nonmetallic fiber optic cables are installed.
2.18 AC POWER:
A. Each cabinet shall be provided with two (2) 120 volt, 20 amp dedicated isolated ground circuits with outlet per diagram.
B. At the telephone MDF install four (4) dedicated 120 volt, 20 amp isolated ground circuits on outlets per diagram.
2.19 LABELS:
A. Computer data and telephone outlets shall be clearly machine labeled.
B. Verify all labeling requirements and standards with owner's IT representative prior to proceeding.
C. Prior to installation of cabling, obtain approved room numbering legend. Do not terminate cable prior to receiving written instructions as to labeling sequence. Cable terminated prior to receiving these written instructions shall be reterminated at no additional cost.
2.20 DATA AND TELEPHONE STATION OUTLETS:
A. Each RJ45 jack shall have one (1) 4 pair cable terminated at the outlet and the termination cabinet.
B. Four (4) pair UTP shall be terminated on a patch panel in the IDF or MDF.
C. Provide quantity of RJ45 jacks as shown on the contract documents.
2.21 TESTING:
A. UTP plenum rated cable shall be tested utilizing a Microtest Omniscanner or equivalent test instrument. Test results shall be provided in print and on CD-ROM for review.
B. Fiber optic cables shall be tested for end-to-end attenuation and perform OTDR testing for signature trace documentation and benchmark performance records. Test results shall be provided digitally.
C. Cable found defective or not in compliance with contract documents shall be replaced at no expense within 7 days of determination.
2.22 WARRANTY
A. Warrant that the system complies to contract documents and shall issue equipment certification stating that the equipment and connected wiring which form the specified system have a Category 6, 25 year application assurance and extended product warranty certified by the manufacturer and in compliance with EIA/TIA 568, 569 and BICCSI standards.
1. Approved manufacturers: Panduit. Submit alternate manufacturers for review minimum 7 days prior to completion of bids.
3.00 PART 5 - EXECUTION:
3.01 GENERAL:
A. Furnish equipment, accessories and material required for installation of the systems in accordance with these contract documents.
B. Components and system shall meet or exceed minimal standards issued by EIA. Work in conjunction with this installation shall meet provisions of National Electric Code and applicable local codes.
3.02 INSTALLATION:
A. Provide conduit and wire as shown and as specified in other sections.
B. Provide equipment as indicated on contract documents. Verify location and orientation prior to rough-in.
3.03 ADJUSTMENT AND CLEANING:
A. Clean system equipment and cabinets of dirt and debris.

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PROJECT:
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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PROJECT 25-181
DATE 07/14/26
COORDINATED BY RH
DRAWN BY BR
CHECKED BY DJ

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

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01
AD-02	07/31/26	ADDENDUM 02
AD-03	08/06/26	ADDENDUM 03

DRAWING
TECHNOLOGY NOTES, SYMBOLS & ABBREVIATIONS

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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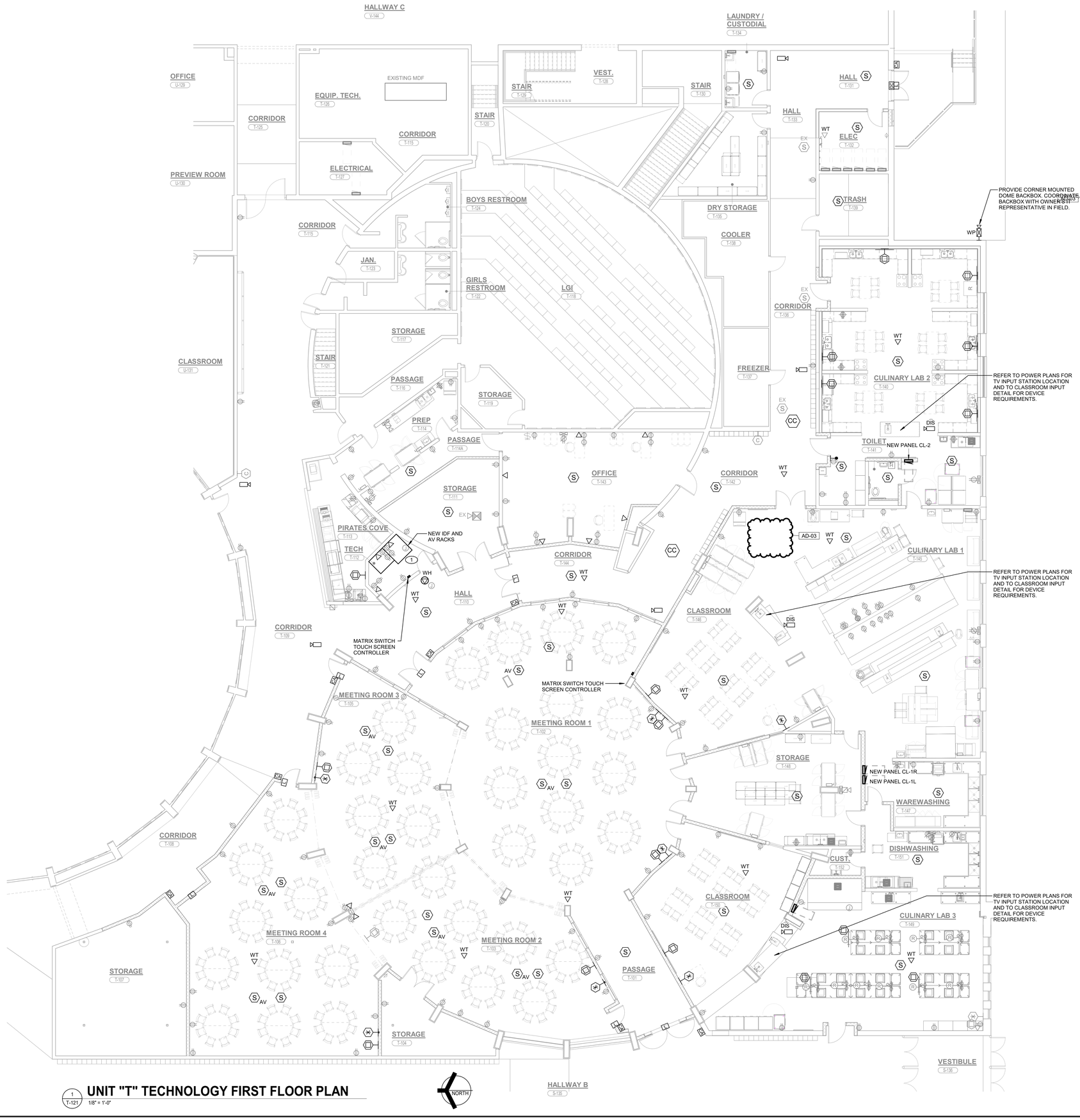


1 T-121 **UNIT "T" TECHNOLOGY FIRST FLOOR PLAN**

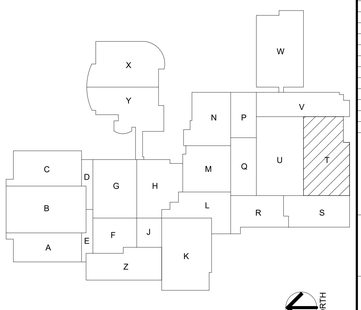
1/8" = 1'-0"

SHEET NOTES

1. ROUTE (1) 12-STRAND SM FIBER TO EXISTING MDF IN 1" INNERDUCT CONDUIT. PROVIDE PANDUIT FIBER PATCH PANEL, SPLICE TRAY AND PATCH CORDS. PROVIDE SFP TRANSCEIVERS WHERE REQUIRED.

GENERAL NOTES

1. ALL CEILING MOUNTED DEVICES REQUIRE INDEPENDENT MOUNTING HARDWARE TO SUPPORT THE DEVICES AND EQUIPMENT FROM THE CEILING STRUCTURE.
2. ALL NEW BUILDING INTERCOM SPEAKERS SHOWN ON THE DRAWINGS (EXCEPT THE MEETING ROOM NOTIFICATION SPEAKERS) SHALL BE CONNECTED TO THE EXISTING SPEAKER WIRING SERVING THIS AREA (ZONE). EXTEND THE EXISTING WIRING AND CONNECT, COMPLETE AS REQUIRED. THE INTERCOM SPEAKERS IN THE FOUR NEW MEETING ROOMS AND PASSAGE T-101 SHALL BE CONNECTED TO THEIR OWN ZONE TO ALLOW A LOCAL OVERRIDE. PROVIDE A NEW AMPLIFIER IN THE IDF RACK IN THE TECH ROOM. THIS AMPLIFIER SHALL BE PROVIDED WITH A RELAY TO THE HEAD END SYSTEM TO ALLOW LOCAL OVERRIDE OF THE NOTIFICATIONS. EMERGENCY NOTIFICATIONS SHALL BE ALLOWED. PROVIDE A LOCAL OVERRIDE SWITCH (ON/OFF OR 6 HOUR TIMER) AND ALL WIRING, RELAYS, AND CONTACTORS AS REQUIRED TO INTERFACE THE AMPLIFIER TO THE EXISTING NOTIFICATION SYSTEM AS INDICATED IN THIS NOTE.



KEY PLAN

GIBRALTAR DESIGN
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PROJECT:

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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
RH
DRAWN BY
BR
CHECKED BY
DJ

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

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01
AD-02	07/31/26	ADDENDUM 02
AD-03	08/06/26	ADDENDUM 03

DRAWING
UNIT "T" TECHNOLOGY FIRST FLOOR PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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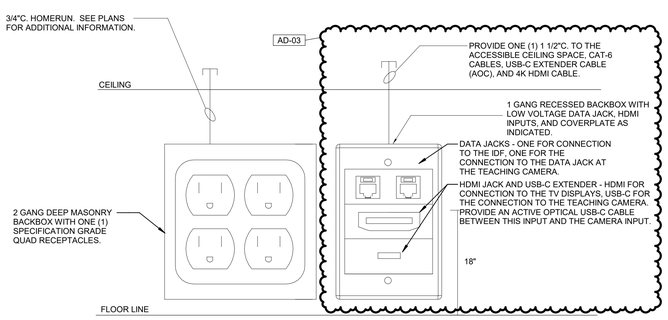
CLASSROOM INPUT STATION DETAIL

PROVIDE 4K HDMI SPLITTER IN THE CEILING SPACE BY EXTRON OR CRESTRON. SPLITTER SHALL BE SIZED FOR THE QUANTITY OF DISPLAYS IN THE CLASSROOM PLUS ONE. PROVIDE MULITPLE SPLITTERS WHERE REQUIRED. PROVIDE LOW VOLTAGE TRANSFORMER AND OUTLET RECESSED IN THE CEILING WHERE REQUIRED. THIS OUTLET SHALL BE CONNECTED TO THE SAME CIRCUIT AS THE INPUT STATION.

NOTE: ALL STUBS SHALL EXTEND 12" FROM THE WALL OVER CEILING TILE

N.T.S.



INPUT PANEL SYMBOL

MOUNTED AS NOTED ON DRAWINGS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.

5 REFER TO NOTE #5 FOR TEACHING STATION LOCATION IN THE CULINARY CLASSROOMS (INTEGRAL TO DESK FURNITURE)

AD-03

LOCATION

THIS SHALL BE PROVIDED IN INPUT PANEL LOCATIONS WITH ASSOCIATED SYMBOL UNLESS OTHERWISE NOTED. A/V CONNECTIVITY SHALL BE PROVIDED TO INPUT PANEL. CONTRACTOR SHALL VERIFY EXACT PLACEMENT OF TEACHER PANEL LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.

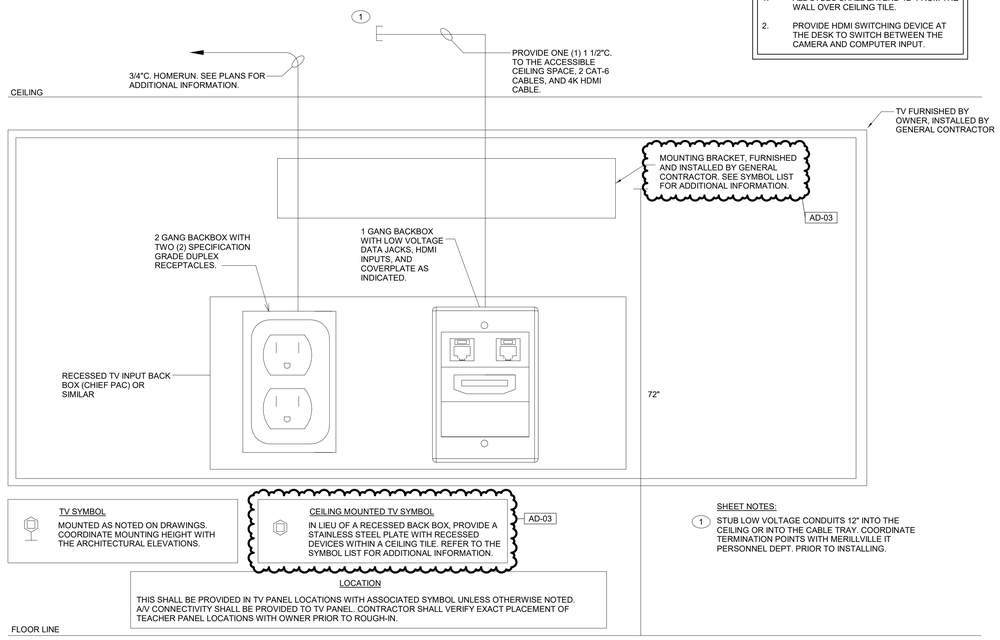
CLASSROOM WALL/CEILING TV STATION DETAIL

AD-03

N.T.S.

NOTES:

1. ALL STUBS SHALL EXTEND 12" FROM THE WALL OVER CEILING TILE.
2. PROVIDE HDMI SWITCHING DEVICE AT THE DESK TO SWITCH BETWEEN THE CAMERA AND COMPUTER INPUT.



TV SYMBOL

MOUNTED AS NOTED ON DRAWINGS. COORDINATE MOUNTING HEIGHT WITH THE ARCHITECTURAL ELEVATIONS.

CEILING MOUNTED TV SYMBOL

IN LIEU OF A RECESSED BACK BOX, PROVIDE A STAINLESS STEEL PLATE WITH RECESSED DEVICES WITHIN A CEILING TILE. REFER TO THE SYMBOL LIST FOR ADDITIONAL INFORMATION.

AD-03

SHEET NOTES:

1 STUB LOW VOLTAGE CONDUITS 12" INTO THE CEILING OR INTO THE CABLE TRAY. COORDINATE TERMINATION POINTS WITH MERILLVILLE IT PERSONNEL DEPT. PRIOR TO INSTALLING.

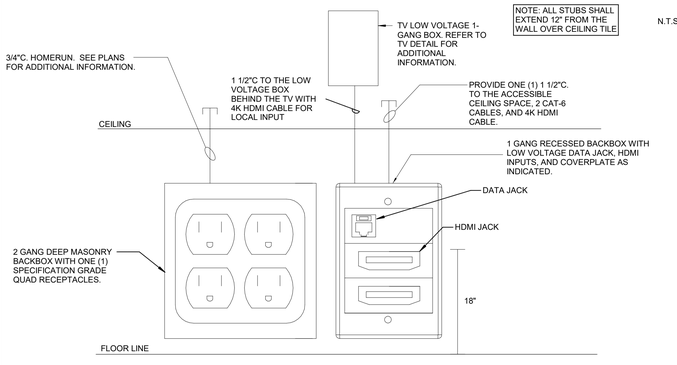
LOCATION

THIS SHALL BE PROVIDED IN TV PANEL LOCATIONS WITH ASSOCIATED SYMBOL UNLESS OTHERWISE NOTED. A/V CONNECTIVITY SHALL BE PROVIDED TO TV PANEL. CONTRACTOR SHALL VERIFY EXACT PLACEMENT OF TEACHER PANEL LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.

MEETING ROOM INPUT STATION DETAIL

NOTE: ALL STUBS SHALL EXTEND 12" FROM THE WALL OVER CEILING TILE

N.T.S.



INPUT PANEL SYMBOL

MOUNTED AS NOTED ON DRAWINGS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.

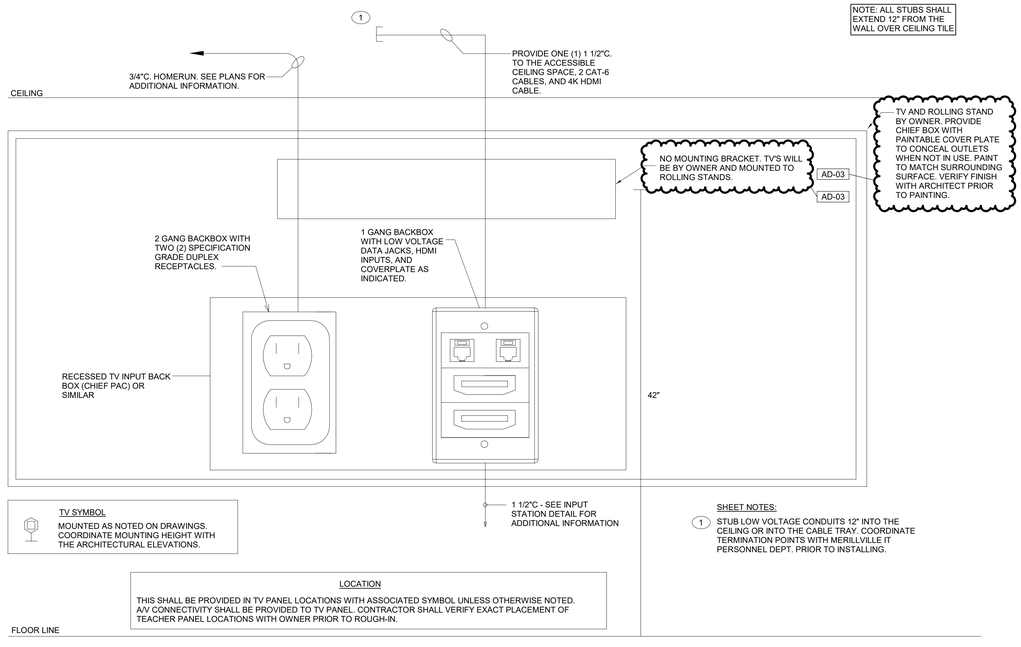
LOCATION

THIS SHALL BE PROVIDED IN INPUT PANEL LOCATIONS WITH ASSOCIATED SYMBOL UNLESS OTHERWISE NOTED. A/V CONNECTIVITY SHALL BE PROVIDED TO INPUT PANEL. CONTRACTOR SHALL VERIFY EXACT PLACEMENT OF TEACHER PANEL LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.

MEETING ROOM TV STATION DETAIL

N.T.S.

NOTE: ALL STUBS SHALL EXTEND 12" FROM THE WALL OVER CEILING TILE



TV SYMBOL

MOUNTED AS NOTED ON DRAWINGS. COORDINATE MOUNTING HEIGHT WITH THE ARCHITECTURAL ELEVATIONS.

SHEET NOTES:

1 STUB LOW VOLTAGE CONDUITS 12" INTO THE CEILING OR INTO THE CABLE TRAY. COORDINATE TERMINATION POINTS WITH MERILLVILLE IT PERSONNEL DEPT. PRIOR TO INSTALLING.

LOCATION

THIS SHALL BE PROVIDED IN TV PANEL LOCATIONS WITH ASSOCIATED SYMBOL UNLESS OTHERWISE NOTED. A/V CONNECTIVITY SHALL BE PROVIDED TO TV PANEL. CONTRACTOR SHALL VERIFY EXACT PLACEMENT OF TEACHER PANEL LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.

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PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
RH
DRAWN BY
BR
CHECKED BY
DJ

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

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REVISIONS

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AD-01	07/24/26	ADDENDUM 01
AD-03	08/06/26	ADDENDUM 03

DRAWING
TECHNOLOGY DETAILS & DIAGRAMS

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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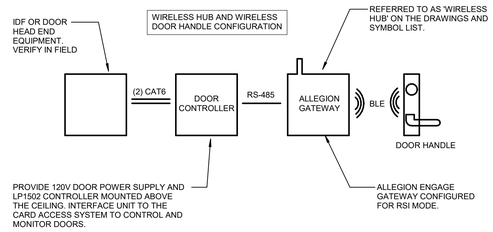
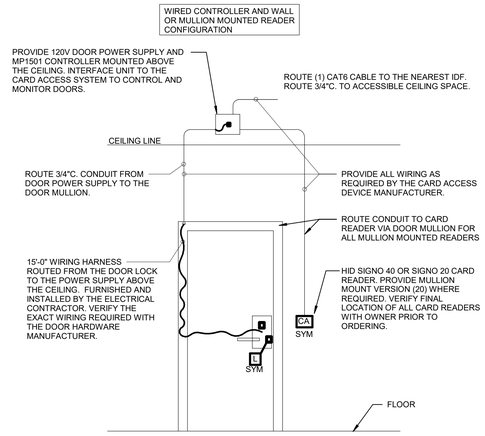
ACCESS CONTROL WIRING DIAGRAM

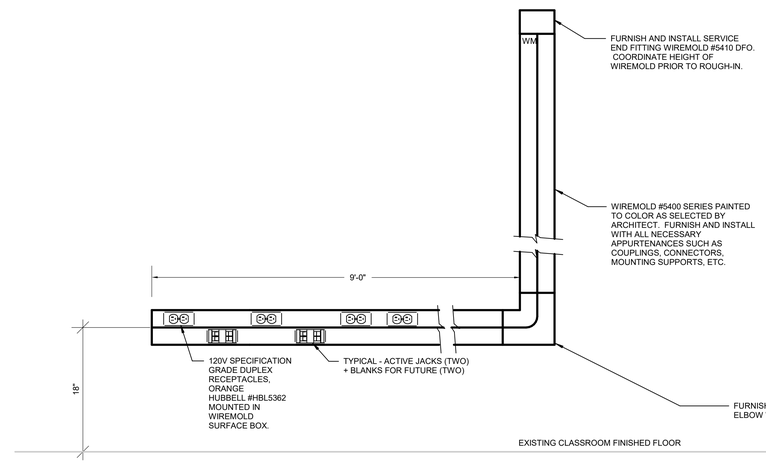


NOTES:

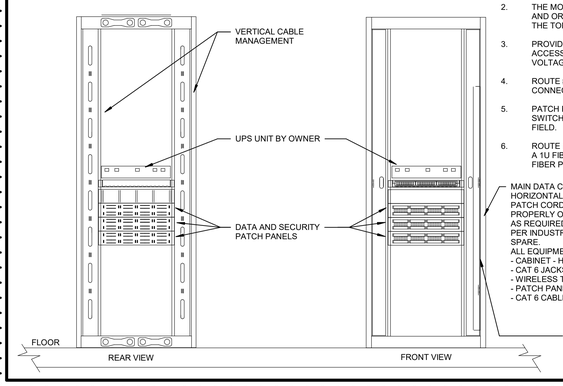
1. PROVIDE 12V OR 24V TRANSFORMERS AS REQUIRED.
2. VERIFY ALL DEVICE LOCATIONS IN FIELD AND PROVIDE ALL WIRING, CONDUIT, JACKS, AND TERMINATIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
3. PROVIDE (1) MERCURY LP1502 DOOR CONTROLLER AND (2) ASSOCIATED CARD READERS AND DOOR STRIKES FOR THE DOORS AS SHOWN. INTERFACE TO EXISTING DOOR CONTROLLER SYSTEM. VERIFY EXACT LOCATION IN FIELD. REFER TO ACCESS CONTROL WIRING DIAGRAM FOR ADDITIONAL INFORMATION. AD-03
4. PROVIDE ALL PROGRAMMING AS REQUIRED TO INTERFACE THE NEW DOOR CONTROLLERS INTO THE EXISTING DOOR CONTROL SERVERS. PROVIDE ALL SOFTWARE, UPGRADES, PROGRAMMING, INTERFACING, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
5. SUBMIT SHOP DRAWING FOR ALL CARD ACCESS CONTROLS. SHOP DRAWING SHALL INCLUDE A FLOOR PLAN MARKUP INDICATING ALL DEVICE LOCATIONS WITH PART NUMBERS AND A COMPLETE WIRING DIAGRAM.
6. ALL 120V POWER SHALL BE CONNECTED TO ONE NEW 20AMP CIRCUIT BREAKER IN EXISTING PANEL SRL. AD-03
7. REFER TO THE ACCESS CONTROLS SPECIFICATIONS FOR ADDITIONAL INFORMATION.



WIREMOLD DETAIL



IDF RACK LAYOUT DETAIL



NOTES:

1. PROVIDE 25' COILED SLACK LENGTH FOR EACH TERMINATED LEVEL 7, CATEGORY 6 DATA CABLE. UTILIZE WIRE MANAGEMENT STRUCTURE PER EIA/TIA STANDARDS. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.
2. THE MOUNTING OF EQUIPMENT IN THE RACK SHALL FOLLOW THE LAYOUT AND ORDER IDENTIFIED HERE IN. THEREFORE UPS SHALL BE MOUNTED AT THE TOP OF THE CABINET, DATA PATCH PANELS NEXT AND SO ON.
3. PROVIDE SEPARATE PATCH PANEL FOR SURVEILLANCE CAMERAS AND DOOR ACCESS CONTROLS TO CONNECT THEM SEPARATELY FROM ALL OTHER LOW VOLTAGE DEVICES..
4. ROUTE #6 GROUNDING CABLE FROM THE MDF AND IDF CABINET AND CONNECT TO THE TELECOMMUNICATIONS GROUND BUS IN TECH S7.
5. PATCH PANELS SHALL BE INSTALLED WITH SPACE BETWEEN FOR OWNER'S SWITCHES. VERIFY EXACT 'U' SPACING WITH OWNER'S IT REPRESENTATIVE IN FIELD.
6. ROUTE 12 STRAND SINGLE MODE FIBER FROM THE IDF TO THE MDF. PROVIDE A 1U FIBER PATCH PANEL WITH FAPS AND SPLICE CASSETTES. PROVIDE FIBER PATCH CORDS FOR THE OWNER'S CONNECTIONS.

MAIN DATA CABINET COMPLETE WITH SIDE VERTICAL CABLE MANAGERS, HORIZONTAL CABLE MANAGERS, DATA-PATCH PANELS, COLOR CODED PATCH CORDS , FILLER PANELS, EIA 19" RACK (84"H), ETC. FOR A COMPLETE & PROPERLY OPERATING INSTALLATION. PROVIDE ALL NECESSARY APPURTENANCES, AS REQUIRED. TERMINATE ALL DATA CABLING & PROVIDE COMPLETE TEST REPORTS PER INDUSTRY STANDARDS, PATCH PANELS, PATCH CORDS, ETC. AND PROVIDE 25% SPARE.
ALL EQUIPMENT BY HUBBELL
- CABINET - H3 SERVER CABINET
- CAT 6 JACKS - HXJ6Y (CAMERAS) OR HXJ6B (ALL OTHERS)
- WIRELESS TERMINAL BOXES - HSB1WP
- PATCH PANELS - HP648
- CAT 6 CABLES - NEXTSPEED UTP HC6RPY (CAMERAS) OR HC6RPB (ALL OTHERS)

AD-03

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PROJECT
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DRAWING
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PROJECT
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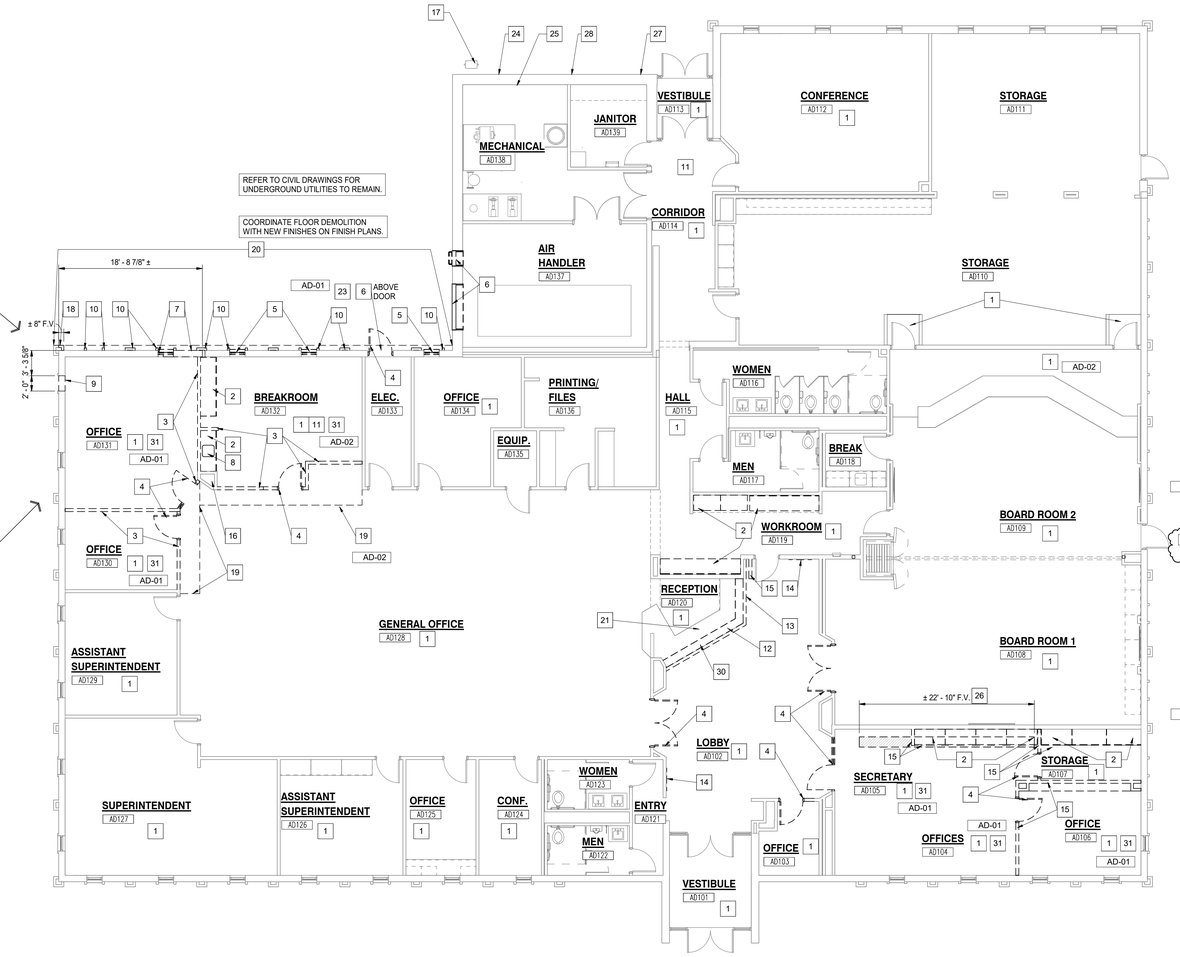
3 AD101 **EXISTING NORTH ELEVATION**
SCALE: NONE

2 AD101 **EXISTING WEST ELEVATION**
SCALE: NONE



1 AD101 **ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN**
SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

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

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 IS RESPONSIBLE FOR ALL DEMOLITION APPLICABLE TO THEIR SCOPE OF WORK AND 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. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR OFF SITE REMOVAL OF ALL DEMOLITION MATERIALS AND/OR ITEMS UNLESS NOTED OTHERWISE OR DIRECTED BY THE OWNER.

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

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

J. 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.

K. 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.

L. 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.

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

N. WHERE WALLS OR BULKHEADS ARE REMOVED, PATCH FLOORS, CEILINGS, AND ADJACENT WALLS 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.

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

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

Q. MASONRY WALLS TO BE REMOVED SHALL BE REMOVED TO A POINT 2" MINIMUM BELOW THE EXISTING FLOOR SLAB UNLESS SETTING ON A SLAB OR SPECIFICALLY NOTED OTHERWISE. PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.

R. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL REVIEW OF DEMOLITION NOTES AND GENERAL DEMOLITION NOTES AS THEY APPLY TO THEIR SCOPE OF WORK.

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

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

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

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

W. 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.

X. ALL ROOMS RECEIVING NEW FLOOR AND BASE SHOULD HAVE EXISTING FLOORING AND BASE REMOVED IN ITS ENTIRETY. PREPARE FLOOR FOR NEW FINISHES.

DEMOLITION PLAN NOTES:

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

1 REMOVE CARPET FLOORING SYSTEM AND BASE IN ITS ENTIRETY. PREPARE FLOOR FOR NEW FINISHES.
2 REMOVE CASEWORK IN ITS ENTIRETY. PATCH AND REPAIR WALL AND FLOOR TO ACCEPT NEW FINISHES. REFER TO INTERIOR SHEETS.
3 REMOVE WOOD STUD AND PLASTER/GYPSUM BOARD WALL IN ITS ENTIRETY. PATCH AND REPAIR ADJACENT WALL AND FLOOR TO ACCEPT NEW FINISHES.
4 REMOVE HOLLOW METAL DOOR, FRAME AND HARDWARE IN ITS ENTIRETY.
5 REMOVE WINDOW IN ITS ENTIRETY. SALVAGE STONE SILL FOR REUSE.
6 REMOVE LOUVER IN ITS ENTIRETY. REFER TO MECHANICAL DRAWINGS.
7 REMOVE MASONRY WALL TO 8" BELOW FLOOR SLAB FOR NEW PASSAGE. REFER TO A-101.
8 REMOVE PLUMBING FIXTURE IN ITS ENTIRETY. CUT AND CAP LINE BELOW WALL OR FLOOR SURFACE, UNLESS OTHERWISE NOTED ON PLUMBING DRAWINGS. PATCH AND REPAIR FLOOR TO ACCEPT NEW FINISHES.
9 REMOVE GYPSUM BOARD AND STUD WALL INCLUDING FACE BRICK TO INSTALL NEW WINDOW WITH JACK AND KING STUDS AND HEADER. SALVAGE BRICK.
10 REMOVE MASONRY PILASTER IN ITS ENTIRETY. PATCH WALL, TYPICAL ON NORTH WALL.
11 REMOVE VCT FLOORING SYSTEM AND BASE IN ITS ENTIRETY. PREPARE FLOOR FOR NEW FINISHES.
12 REMOVE UPPER COUNTER ONLY, BASE CABINETS TO REMAIN.
13 REMOVE ACCORDIAN PARTITION SYSTEM IN ITS ENTIRETY. PATCH WALL AND BULKHEAD. PREP FOR NEW FINISHES.
14 REMOVE DISPLAY CASE IN ITS ENTIRETY.
15 REMOVE WOOD STUD AND PLASTER/GYPSUM BOARD WALL AND BULKHEAD IN ITS ENTIRETY. PATCH AND REPAIR ADJACENT WALL AND FLOOR TO ACCEPT NEW FINISHES.
AD-01 16 APROXIMATE LOCATION OF EXISTING ROOF CONDUCTOR. COORDINATE WITH PLUMBING.
17 APPROXIMATE LOCATION OF EXISTING NATURAL GAS METER TO REMAIN. PROTECT.
18 REMOVE PORTION OF MASONRY PILASTER. PREP FOR NEW EXTERIOR WALL.
AD-03 19 CAREFULLY REMOVE CEILING TILE FOR REUSE IN SAME LOCATION. REMOVE /REWORK PORTION OF CEILING GRID. COORDINATE WITH REFLECTED CEILING PLAN.
20 REMOVE METAL FASCIA AND SOFFIT IN ITS ENTIRETY. SAWCUT AND REMOVE ROOF PARAPET AND ROOF STRUCTURE FLUSH TO EXTERIOR OF EXISTING WOOD STUD BEARING WALL.
21 EXISTING LOW COUNTER TO REMAIN PROTECT.
22 REMOVE TREE AND STRIP SOIL. REFER TO CIVIL
23 REMOVE LIGHT FIXTURE REFER TO ELECTRICAL.
24 EXISTING FIRE DEPARTMENT CONNECTION.
25 APPROXIMATE LOCATION OF SPRINKLER RISER.
26 SAWCUT AND REMOVE CONCRETE SLAB FOR NEW SANITARY LINE. REFER TO PLUMBING DRAWINGS FOR EXTENTS OF TRENCH.
27 EXISTING KNOX BOX TO REMAIN.
28 EXISTING HOSE BIBB TO REMAIN.
29 SALVAGE LIMESTONE SILL FOR REUSE AT NEW WINDOW.
AD-01 30 REMOVE PORTION OF PLASTER/GYPSUM BOARD BLUKHEAD TO INSTALL SLIDING WINDOW TRACK.
31 REMOVE SUSPENDED ACOUSTICAL CEILING SYSTEM IN ITS ENTIRETY.

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PROJECT:

MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
6701 DELAWARE ST
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PROJECT
26-110
DATE
07/14/26
COORDINATED BY
CLS
DRAWN BY
CJA, JKF
CHECKED BY
CLS NAS

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

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AD-03	08/07/26	ADDENDUM 03

DRAWING
ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN

PROJECT
MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

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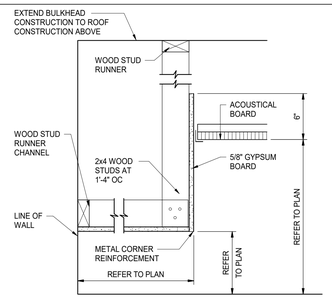

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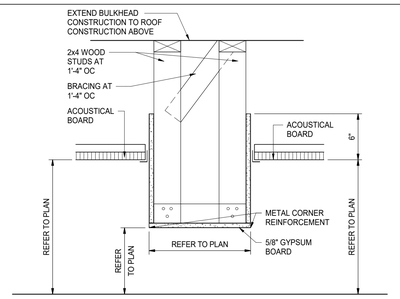
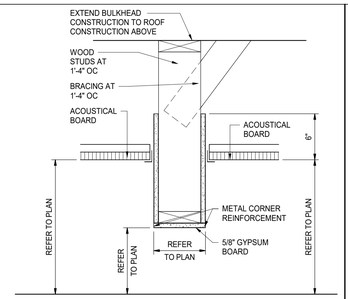


DETAIL "B"



DETAIL "A"

2 A-901

BULKHEAD DETAILS

SCALE: 1 1/2" = 1'-0"

GENERAL REFLECTED CEILING NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO SHEET G-301.

B. THE ARCHITECTURAL REFLECTED CEILING PLANS GOVERN THE LAYOUT OF ALL CEILING ELEMENTS AND PENETRATIONS.

C. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT THE ROOF DECK.

D. REFER TO FLOOR PLANS FOR WALL TYPES.

E. REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD TYPES AND QUANTITIES. HEADS HAVE INTENTIONALLY BEEN OMITTED FOR CLARITY.

F. CEILING ACCESS PANELS INDICATED ARE NOT INTENDED TO LIMIT NUMBER OF PANELS REQUIRED. PANEL QUANTITY SHALL BE SUFFICIENT TO PROVIDE REQUIRED ACCESS WHETHER OR NOT INDICATED ON THE DRAWINGS. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK.

G. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPE AND QUANTITIES.

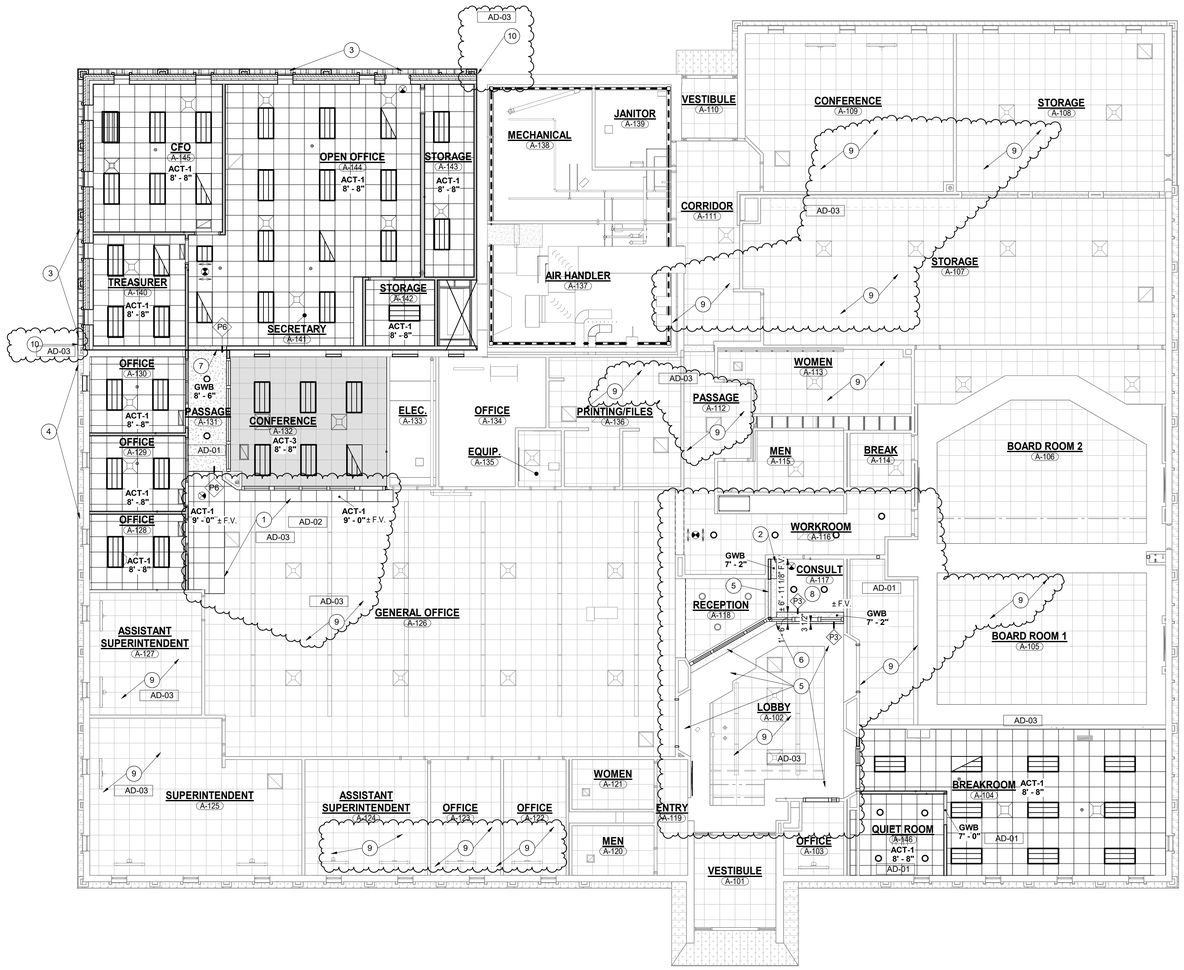
H. REFER TO MECHANICAL DRAWINGS FOR DIFFUSERS, GRILL TYPES AND QUANTITIES - ALL MECHANICAL ITEMS MAY NOT BE INDICATED ON THIS SHEET.

I. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL CEILING MOUNTED TECHNOLOGY ITEMS

J. REFER TO FINISH PLANS AND INTERIOR ELEVATIONS FOR PAINT COLORS.

CEILING LEGEND

- ACT-1
- ACT-3
- LIGHT FIXTURE
- SUPPLY AIR DIFFUSER.
- RETURN OR EXHAUST REGISTER.
- EXHAUST REGISTER.
- EXTERIOR INSULATED FINISH SYSTEM (EIFS).
- INTERIOR FINISH SYSTEM (IFS) OVER GLASS MATT GYPSUM SHEATHING.
- GYPSUM BOARD CEILING OR BULKHEAD, REFER TO TYPICAL BULKHEAD DETAILS A-901 AND WALL SECTIONS. PAINT P10.



1 A-901

FIRST FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN NOTES:

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

AD-02	1	TIE GRID INTO EXISTING GRID. ALIGN CEILING GRID WITH EXISTING CEILING GRID. MATCH EXISTING ADJACENT CEILING TILES. FIELD VERIFY.
AD-03	2	PATCH CEILING WITH MATCHING MATERIAL AND ALIGN WITH EXISTING BULKHEAD. PAINT P10.
	3	PREFINISHED METAL SOFFIT.
	4	EXISTING METAL SOFFIT.
AD-03	5	EXISTING GYPSUM BOARD BULKHEAD TO REMAIN. PAINT P10.
AD-03	6	ALIGN NEW BULKHEAD TO THE CORNER OF THE EXISTING BULKHEAD. INSTAL CONTROL JOINT. PAINT P10.
	7	1" CEILING EXPANSION JOINT WITH BACKER ROD AND SEALANT.
AD-03	8	EXISTING GYPSUM BOARD CEILING TO REMAIN. PATCH REPAIR ADJACENT TO NEW WORK PAINT P10.
AD-03	9	EXISTING CEILING TO REMAIN.
	10	EXPANSION JOINT WITH BACKER ROD AND SEALANT.

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT:

MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

MERRILLVILLE COMMUNITY SCHOOL CORPORATION

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PROJECT 26-110
DATE 07/14/26
COORDINATED BY CS
DRAWN BY CJA
CHECKED BY CS

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

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01
AD-02	07/31/26	ADDENDUM 02
AD-03	08/07/26	ADDENDUM 03

DRAWING
FIRST FLOOR REFLECTED CEILING PLAN

PROJECT
MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

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SHEET
A-901

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