ADDENDUM NO. 01

October 16, 2026

Franklin Central High School Health Sciences Pavilion
6215 S. Franklin Rd
Indianapolis, IN 46259

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 September 18, 2026, by Wold VPS Architecture (Architect). Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

1. This Addendum consists of Pages ADD 1-1 through ADD 1-3, Specification Section 07 54 23.10 – Abbreviated Scope of Work for TPO Roofing and attached Wold VPS Addendum No. 01 dated October 16, 2026, consisting of 3 pages, Specification Section 05 40 11 Cold-Formed Metal Framing, Specification Section 07 13 00 Sheet Waterproofing, Specification Section 07 42 13 Metal Wall Panels, Specification Section 08 80 00 Glazing, Specification Section 09 05 61 Common Work Results for Flooring Preparation, Specification Section 10 21 32 Cubicle Curtains and Tracks, Specification Section 14 24 00 Hydraulic Elevators and a combined total of 25 drawings.

Work activities that may disturb the operation of the school will have to be performed off hours as needed. These will need to be coordinated with the Owner and Skillman's Site Manager.

A. SPECIFICATION SECTION 00 00 20 TABLE OF CONTENTS

1. Revise the following sections

Section	04 20 00	Unit Masonry
Section	10 22 39	Operable Glass Partitions

2. Add the following sections

Section	05 31 00	Steel Decking
Section	07 13 00	Sheet Waterproofing

Section	23 74 16	Packaged, Rooftop Air-Conditioning Units

3. Delete the following sections

Section	05 32 00	Steel Decking
Section	08 91 00	Louvers
Section	23 74 16.13	Packaged, Large-Capacity, Rooftop Air-Conditioning Units

B. SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY

1. Paragraph 3.03 Bid Categories

A. BID CATEGORY NO. 2 – GENERAL TRADES

Delete the following Specification Sections

Section	06 41 00	Architectural Wood Casework and Trim

Add the following Specification Clarifications

Clarification #15 – Regarding Specification Section 09 05 61 – **Bid Category #2 Contractor** is responsible for removal of all existing floor coverings and floor preparation for their assigned specification sections. **Bid Category #8 Contractor** is responsible for floor preparation for their assigned specification sections.

Clarification #16 – Regarding Specification Section 07 21 00 – **Bid Category #2 Contractor** is responsible for rigid insulation on foundation wall and extending under slab.

B. BID CATEGORY NO. 3 – MASONRY

Add/Revise the following Specification Clarifications

Clarification #2 – Delete "and parapet sheathing".

Clarification #3 – Regarding Specification Section 07 21 00 – **Bid Category #2 Contractor** is responsible for rigid insulation on foundation wall and extending under slab. **Bid Category #3 Contractor** is responsible for rigid insulation behind facebrick. **Bid Category #6 Contractor** is responsible for rigid insulation behind metal wall panels and cementitious panels.

Clarification #4 – Regarding Specification Section 07 25 00 – **Bid Category #3 Contractor** is responsible for weather barriers behind facebrick masonry. **Bid Category #6 Contractor** is responsible for weather barriers behind metal wall panels and cementitious panels.

C. BID CATEGORY NO. 4 – STRUCTURAL STEEL

Add the following Specification Section

Section 01 53 30 Barricades (As applicable to your work)

D. BID CATEGORY NO. 5 – ROOFING

Add/Revise the following Specification Clarifications

Clarification #3 – Delete "and parapet sheathing".

E. BID CATEGORY NO. 6 – METAL STUDS, DRYWALL & ACOUSTICAL

Add the following Specification Section

Section 05 40 11 Cold-Formed Metal Framing

Delete the following Specification Section

Section 07 05 43 – Cladding Support Systems

Add the following Clarifications:

Clarification #5 – Regarding Specification Section 07 21 00 – **Bid Category #2 Contractor** is responsible for rigid insulation on foundation wall and extending under slab. **Bid Category #3 Contractor** is responsible for rigid insulation behind facebrick. **Bid Category #6 Contractor** is responsible for rigid insulation behind metal wall panels and cementitious panels.

Clarification #6 – Regarding Specification Section 07 25 00 – **Bid Category #3 Contractor** is responsible for weather barriers behind facebrick masonry. **Bid Category #6 Contractor** is responsible for weather barriers behind metal wall panels and cementitious panels.

F. BID CATEGORY NO. 8 – FLOORING

Add the following Clarifications:

Clarification #2 – Regarding Specification Section 09 05 61 – **Bid Category #2 Contractor** is responsible for removal of all existing floor coverings and floor preparation for their assigned specification sections. **Bid Category #8 Contractor** is responsible for floor preparation for their assigned specification sections.

SECTION 07 54 23.10
ABBREVIATED SCOPE OF WORK FOR TPO ROOFING

PART 1 GENERAL

1.01 SUMMARY

A. Work includes removal, preparation, reroofing, insulation, cover board, thermoplastic polyolefin (TPO) roofing membrane, membrane flashings, sheet metal flashings and trim, and related work required to provide complete watertight roofing assemblies.

B. Coordinate roofing Work with the Drawings, demolition plans, architectural plans, structural plans, mechanical plans, electrical plans, and other related Contract Documents.

C. Include all items required for complete reroofing assemblies in the Base Bid unless specifically indicated otherwise.

D. Field verify existing roof assemblies, insulation thicknesses, deck conditions, dimensions, penetrations, equipment, curbs, nailers, and other existing conditions affecting the Work prior to beginning roofing operations.

1.02 ROOFING SCOPE

A. **Roof Section HSP:**

1. Provide complete new thermoplastic polyolefin (TPO) roofing assembly over new roof deck as indicated on the Drawings.
2. Provide polyisocyanurate roof insulation in thicknesses required to achieve indicated thermal resistance and roof elevations.
3. Install fully tapered polyisocyanurate insulation system sloped at 1/8 inch per 12 inches unless otherwise indicated, including fill insulation required to achieve design elevations.
4. Provide tapered crickets, saddles, drain sumps, and tapered edge strips as required to maintain positive drainage. Provide 1/4 inch per 12 inches and 1/2 inch per 12 inches tapered insulation where required.
5. Install minimum 1/2-inch-thick, 80-psi high-density polyisocyanurate cover board over roof insulation.
6. Mechanically attach cover board through roof insulation to the new steel roof deck using a minimum of eight No. 15 fasteners with induction-weld plates per 4-foot by 8-foot board in the field of the roof, with increased fastening rates at roof perimeters and corners as required by roofing manufacturer, approved roof assembly, wind-uplift requirements, and specified warranty.
7. Install 60-mil TPO roofing membrane utilizing induction-weld attachment system.
8. Provide thermal barrier where required by the tested roof assembly, applicable code, or roofing system manufacturer.
9. Provide complete membrane flashings, penetration flashings, sheet metal, accessories, and related components required for a complete watertight roofing system.
10. Submit manufacturer-prepared tapered insulation layout and fastening pattern for review prior to installation.

B. Roof Section V1 – Existing Warrantied Roofing Adjacent to New Construction:

1. Existing roofing in these areas is to remain except where modification is required to accommodate the new addition, new wall construction, flashing, penetrations, or other Work indicated on the Drawings.
2. Prior to beginning Work, Contractor shall verify the existing roofing manufacturer, roofing system, and current warranty requirements.
3. Coordinate all modifications to the existing roof with the existing roofing manufacturer as required to maintain the existing roof warranty.
4. Roofing Contractor performing modifications shall be approved by the existing roofing manufacturer where required by the warranty.
5. Carefully remove only the roofing membrane, flashing, insulation, cover board, and related materials necessary to complete the new construction and roof tie-in.
6. Protect existing roofing scheduled to remain from construction traffic, debris, damage, and contamination. Repair damage caused by construction at no additional cost to Owner.

7. Patch and modify the existing roofing system using materials compatible with the existing roof system and acceptable to the existing roofing manufacturer.
8. Tie new roofing and flashing into the existing roofing system in accordance with the existing roofing manufacturer's written requirements and approved details. Do not make modifications that void or reduce the existing roof warranty.
9. Where existing insulation or roofing materials are removed, replace with materials matching the existing assembly thickness and compatible with the existing roofing system unless otherwise indicated.
10. Maintain the roof in a watertight condition throughout construction. Do not remove more existing roofing than can be permanently or temporarily made watertight the same day.
11. Provide temporary night seals and water cutoffs as required to prevent moisture from entering the existing or new roofing assemblies.
12. Upon completion of the Work, provide documentation from the existing roofing manufacturer confirming that modifications have been inspected and that the existing roof warranty remains in effect.
13. Contractor shall be responsible for all costs associated with manufacturer inspections, warranty-related repairs, and documentation required as a result of this Work.

C. Roof Section V2 – Existing Warrantied Roof at Removed Metal Roof / New Addition Tie-In:

1. Remove existing metal mansard roofing, associated framing/supports where indicated, flashings, trim, and related components required for construction of the new addition.
2. Existing warrantied low-slope roofing adjacent to the removed mansard is to remain except where modification is required to complete the new construction and provide a watertight tie-in.
3. Prior to demolition, field verify the existing roof assembly, edge condition concealed by the mansard, insulation thicknesses, substrate condition, membrane type, and existing warranty requirements.
4. Coordinate demolition sequencing so the existing roof remains watertight at all times. Provide temporary weather protection immediately upon removal of the mansard and maintain until permanent construction is complete.
5. Carefully remove existing membrane, flashing, insulation, cover board, blocking, and related components only to the extent required to construct the new exterior wall and complete the permanent roof-to-wall transition.
6. Provide new treated wood blocking, nailers, substrate, insulation, cover board, membrane flashing, termination, and sheet metal as required to create a complete watertight transition between the existing roof and new construction.
7. Extend new membrane flashing vertically at the new addition wall a minimum of 8 inches above finished roof surface, or greater where required by the existing roofing manufacturer.
8. Tie new flashing into the existing roofing membrane using materials and details approved by the existing roofing manufacturer. Do not use dissimilar or incompatible roofing materials.
9. Where removal of the existing mansard exposes previously concealed roofing or substrates that are damaged, deteriorated, wet, improperly terminated, or otherwise unsuitable to receive new Work, notify Architect prior to proceeding.
10. Replace disturbed insulation and cover board to match existing roof assembly thickness and maintain existing drainage patterns.
11. Do not create a backwater condition, trapped drainage area, or reduction in existing roof slope at the new wall transition. Provide tapered insulation, crickets, or saddles where required to maintain positive drainage.
12. Coordinate new wall construction, air/water barrier, roofing membrane flashing, and sheet metal so the assemblies are continuously integrated and shingled to drain to the exterior.
13. Roofing modifications shall be performed by a contractor approved by the existing roofing manufacturer where required to maintain the existing warranty.

14. Upon completion, obtain roofing manufacturer inspection and written confirmation that the existing roof warranty remains in effect.

1.03 EXISTING ROOFING AND SUBSTRATE CONDITIONS

A. Where existing roofing assemblies are not scheduled for complete removal to the deck, remove wet, deteriorated, damaged, or otherwise unsuitable areas down to sound substrate.

B. Backfill removed insulation areas with polyisocyanurate insulation to match adjacent total roof assembly thickness, including tapered insulation and board insulation where applicable.

C. Contractor shall perform field verification and roof cores as required to verify existing roof assembly type and thickness.

D. Patch roof-core locations immediately after investigation and maintain watertight conditions.

E. Notify Architect of concealed deterioration or conditions materially different from those indicated before proceeding with affected Work.

1.04 ROOF DECK REPAIR

A. Remove abandoned roof penetrations down to the roof deck.

B. Patch openings with decking matching existing deck type, profile, thickness, and material.

C. Replace deteriorated decking where authorized.

D. Repair minor deck openings using materials appropriate for the existing deck construction.

E. Clean rusted steel decking and coat with compatible rust-inhibiting direct-to-metal primer where directed.

F. Coordinate quantities and extent of deck replacement or repair with unit-price requirements, where included in the Contract Documents.

1.05 ROOF INSULATION AND DRAINAGE

A. Provide polyisocyanurate insulation compatible with specified roofing system.

B. Provide insulation thicknesses indicated on Drawings and required to maintain existing elevations, flashing heights, drainage, and interface conditions.

C. Install tapered insulation, crickets, saddles, and drain sumps as required to provide positive drainage and minimize ponding.

D. Coordinate tapered insulation layout with roof drains, scuppers, overflow drainage, mechanical equipment, curbs, penetrations, and adjacent roof elevations.

E. Submit tapered insulation layout bearing roofing manufacturer's review or approval prior to installation.

1.06 TPO ROOFING SYSTEM

A. New Roof:

1. Roofing Membrane: Reinforced thermoplastic polyolefin roofing membrane, minimum 60 mil thickness.
2. Attachment: Induction-weld system utilizing membrane-manufacturer-approved plates and fasteners.
3. Provide fastening patterns and increased fastening densities at perimeters and corners as required by tested assembly, applicable wind loads, and roofing manufacturer requirements.

B. Existing Roof Sections V1 and V2: Provide membrane, flashing, attachment methods, and accessories compatible with the existing roofing system and approved by the existing roofing manufacturer as required to maintain the existing warranty.

C. Provide membrane manufacturer's complete system including:

1. Field membrane.
2. Flashing membrane.
3. Prefabricated accessories where available.
4. Inside and outside corners.
5. Pipe and penetration flashings.
6. Walkway pads.
7. Cover strips.
8. Sealants.
9. Adhesives.
10. Fasteners and plates.

11. Termination bars.
12. Miscellaneous accessories required for a complete watertight installation.

1.07 FLASHINGS AND SHEET METAL

A. Remove existing sheet metal and flashing components scheduled for replacement.
B. Provide new sheet metal flashings and trim at roof edges, copings, counterflashings, equipment curbs, penetrations, transitions, and other locations indicated.
C. Field verify sheet metal dimensions, configurations, and quantities prior to fabrication.
D. Sheet metal shall be factory-finished where indicated. Color shall be selected by Architect from manufacturer's standard color range unless otherwise indicated.
E. Coordinate roofing membrane installation and sheet metal installation so unfinished roof edges and flashing conditions are not left exposed longer than necessary.
F. Complete sheet metal installation promptly following installation of adjacent field membrane.

1.08 ROOF PENETRATIONS AND EQUIPMENT

A. Coordinate with mechanical, electrical, plumbing, technology, and other trades for temporary disconnection, removal, relocation, extension, reconnection, and modification of rooftop equipment and services required to complete roofing Work.
B. Include modifications required to accommodate increased roof assembly thickness.
C. Maintain minimum flashing heights required by roofing manufacturer and applicable standards.
D. Raise curbs, piping, line sets, conduit, equipment supports, gas piping, drip legs, and similar components where required to maintain proper clearances and flashing heights.
E. Remove abandoned penetrations and associated equipment where indicated.
F. Coordinate equipment removal so components below the roof deck are protected from falling debris. Provide interior protection and barricades where required.
G. Roofing Contractor is responsible for damage to rooftop equipment resulting from roofing operations.

1.09 ROOF ACCESSORIES

A. Provide concrete pavers where indicated on Drawings.
B. **Concrete Pavers:**
    1. Size: 24 by 24 by 1-1/2 inches unless otherwise indicated.
    2. Minimum compressive strength: 8,000 psi.
    3. Diamond-tread walking surface.
    4. Install over compatible slip sheet or TPO walkway pad as recommended by roofing manufacturer.
C. Provide pipe supports, blocking, walk pads, safety equipment, ladders, roof hatches, guardrails, anchors, and related roof accessories where indicated on Drawings.
D. Coordinate attachment and flashing of roof-mounted accessories with roofing membrane manufacturer.

1.10 TEMPORARY PROTECTION

A. Maintain building interior in a dry, watertight condition throughout roofing operations.
B. Do not remove more roofing in one day than can be made watertight before the end of that day's work.
C. Provide temporary tie-ins and water cutoffs at incomplete roofing areas.
D. Protect completed roofing from construction traffic and damage.
E. At traffic routes over existing or completed roofing, provide minimum temporary protection consisting of:
    1. One layer of 1-inch polyisocyanurate insulation.
    2. Minimum 3/4-inch plywood over insulation.
    3. Secure protection against displacement by anticipated wind conditions.
F. Repair roofing damaged by construction activities at no additional cost to Owner.

1.11 COORDINATION

A. Coordinate sequencing of roofing Work with Owner and Construction Manager or General Contractor.
B. Coordinate shutdowns and temporary disconnections with Owner in advance.
C. Maintain access to building entrances, exits, emergency routes, and occupied areas.
D. Coordinate roofing activities with other trades whose Work penetrates, attaches to, or otherwise affects the roofing system.

E. Do not install roofing over unsuitable, wet, frozen, damaged, or improperly prepared substrates.

1.12 SUBMITTALS

A. Submit roofing manufacturer's complete roofing system information, including:
   1. Roofing membrane product data.
   2. Insulation and cover board product data.
   3. Fasteners and plates.
   4. Adhesives and sealants.
   5. Sheet metal materials and finishes.
   6. Walkway materials.
   7. Roofing accessories.
   8. Tapered insulation layout.
   9. Roof-system fastening pattern.
   10. Manufacturer's written acceptance of proposed roof assembly.
   11. Sample roofing warranty.
   12. Manufacturer's preinstallation notice where required.

B. Tapered insulation layout shall indicate:
   1. Drainage slopes.
   2. Crickets and saddles.
   3. Drain sumps.
   4. Insulation thicknesses.
   5. Perimeter and corner zones.
   6. Fastening patterns.

1.13 QUALITY ASSURANCE

A. Roofing Contractor shall be approved or authorized by roofing-system manufacturer to install specified system and obtain required warranty.

B. Install roofing in accordance with manufacturer's published requirements and approved roofing-system assembly.

C. Provide manufacturer's inspections required for issuance of specified warranty.

D. Correct deficiencies identified by manufacturer prior to Final Acceptance.

1.14 WARRANTIES

A. Contractor's Warranty: Provide written warranty covering defects in roofing materials and workmanship for a period of two years from date of Final Acceptance.

B. New Roof Manufacturer's Warranty: Provide 20-year full-system roofing warranty covering roofing membrane, insulation, cover board, flashings, and other system components included within the manufacturer's warranted assembly.
   1. Include wind-speed coverage required by the roofing manufacturer's specified warranted assembly and not less than 72 mph.
   2. Include all costs associated with inspections, corrections, documentation, and issuance of specified warranty in the Contract Sum.

C. Existing Roof Warranty: Maintain existing roofing manufacturer warranties. Provide manufacturer inspection and documentation confirming existing warranties remain in effect following completion of the Work.

PART 2 PRODUCTS

2.01 NOT USED

A. Products are described within the abbreviated scope above and in related roofing sections.

PART 3 EXECUTION

3.01 NOT USED

A. Execution requirements are included within Part 1 of this abbreviated scope.

END OF SECTION 07 54 23.10

To: Prospective Bidders

From: Wold VPS

Date: October 16, 2026

Comm. No: 260804016

Subject: Addendum No. 1 for Bidding Documents for the
Franklin Township Community School Corporation
Franklin Central High School Health Sciences Pavilion
Indianapolis, Indiana

BIDS DUE NOVEMBER 4, 2026 AT 2:00 P.M. EST.

This addendum forms a part of the Contract Documents dated September 18, 2026. Acknowledge receipt of this Addendum on the space provided on the Bid Form. Failure to do so may result in disqualification of Bid.

This Addendum consists of (3) typed sheets and attachments:
Specifications: 05 40 11, 07 42 13, 08 80 00, 09 05 61, 10 21 32, 14 24 00

PROJECT MANUAL

1. **SPECIFICATION SECTION 05 40 11 COLD FORMED METAL FRAMING**
   A. Reissued this addendum.
2. **SPECIFICATION SECTION 07 42 13 METAL WALL PANELS**
   A. Reissued this addendum.
3. **SPECIFICATION SECTION 08 80 00 GLAZING**
   A. Reissued this addendum.
4. **SPECIFICATION SECTION 09 05 61 COMMON WORK RESULTS FOR FLOORING PREPARATION**
   A. Reissued this addendum.
5. **SPECIFICATION SECTION 10 21 32 CUBICLE CURTAINS AND TRACKS**
   A. Reissued this addendum.
6. **SPECIFICATION SECTION 14 24 00 HYDRAULIC ELEVATORS**
   A. Reissued this addendum.

PRIOR APPROVALS

The following schedule amends designated specification sections to list additional acceptable manufacturers. Use of any product by any of these manufacturers will be permitted only if after review of shop drawings or detailed product data per Section 01 30 00, Architect determines that proposed materials or equipment are equivalent in performance, construction and appearance to product(s) specified.

Where anticipated product substitutions would alter the design or space requirements indicated on the Drawings, pay for cost of design and construction revisions including the cost of associated work by other contractors.

For complete requirements, see Specification Section 01 25 00 – Substitution Procedures.

Section No.	Item	Type	Acceptable Manufacturer
07 95 13	2.01.A	Joint Covers / Cover Assemblies	Construction Specialties
11 53 13	2.01.A.	Metal Laboratory Fume Hoods	Air Master Systems

DRAWINGS

1. **C220 – SITE DEMOLITION PLAN**
   A. Delete and replace in its entirety
2. **C230 – SITE GRADING AND DRAINAGE PLAN**
   A. Delete and replace in its entirety
3. **C250 – SITE IMPROVEMENT PLAN**
   A. Delete and replace in its entirety
4. **C260 – SITE DETAILS**
   A. Delete and replace in its entirety
5. **AD101 - DEMOLITION FLOOR PLAN**
   A. Delete and replace in its entirety
6. **A101HSP – FIRST FLOOR ARCHITECTURAL FLOOR PLAN – AREA HSP**
   A. Delete and replace in its entirety
7. **A102HSP – SECOND & THIRD LFOOR ARCHITECTURAL FLOOR PLAN– AREA HSP**
   A. Delete and replace in its entirety
8. **A103HSP – FIRST FLOOR EQUIPMENT FLOOR PLAN – AREA HSP**
   A. Delete and replace in its entirety
9. **A104HSP – SECOND FLOOR EQUIPMENT FLOOR PLAN – AREA HSP**
   A. Delete and replace in its entirety
10. **A201R – FIRST FLOOR REFLECTED CEILING PLAN – AREA R**
    A. Delete and replace in its entirety
11. **A202HSP – SECOND & THIRD FLOOR REFLECTED CEILING PLAN 0 AREA HSP**
    A. Delete and replace in its entirety
12. **A302 – ROOF PLAN**

A. Delete and replace in its entirety

13. **A404 – WALL SECTION**
    A. Delete and replace in its entirety
14. **A507 – SECOND FLOOR INTERIOR ELEVATIONS**
    A. Delete and replace in its entirety
15. **A508 – MATERIAL FINISH SCHEDULE AND INTERIOR RENDERINGS**
    A. Delete and replace in its entirety
16. **A601 – EXTERIOR PLAN DETAILS**
    A. Delete and replace in its entirety
17. **ED102 –ELECTRICAL DEMOLITION FIRST FLOOR PLAN – UNIT R**
    A. Delete and replace in its entirety
18. **EL102 –ELECTRICAL LIGHTING FIRST FLOOR PLAN – UNIT R**
    A. Delete and replace in its entirety
19. **EP102 –ELECTRICAL POWER FIRST FLOOR PLAN – UNIT R**
    A. Delete and replace in its entirety
20. **E-601 –ELECTRICAL LIGHTING AND EQUIPMENT SCHEDULES**
    A. Delete and replace in its entirety
21. **MD101 – PARTIAL MECHANICAL DEMOLITION FIRST FLOOR PLAN–UNIT Q & R**
    A. Delete and replace in its entirety
22. **MH101 –MECHANICAL HVAC FIRST FLOOR PLAN – UNIT Q & R**
    A. Delete and replace in its entirety
23. **PP101 – FIRST FLOOR PLUMBING PLANS – UNITS Q & R**
    A. Delete and replace in its entirety
24. **T201HSP –FIRST FLOOR TECHNOLOGY PLAN – UNIT HSP**
    A. Delete and replace in its entirety
25. **T201Q –FIRST FLOOR TECHNOLOGY PLAN – UNIT Q**
    A. Delete and replace in its entirety

END OF ADDENDUM #1

SECTION 05 40 00
COLD FORMED METAL FRAMING (ADD 1)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Exterior framing.

B. Related Sections include the following:

1. Division 05 Section "Metal Fabrications" for masonry shelf angles and connections.
2. Division 09 Section "Non-Structural Metal Framing" for interior non-load-bearing, metal-stud framing and ceiling-suspension assemblies.

1.3 PERFORMANCE REQUIREMENTS

A. Structural Performance: Provide cold-formed metal framing capable of withstanding design loads within limits and under conditions indicated.

1. Design Loads: As indicated.

a. Dead Loads: Weights of materials and construction.
b. Wind Loads: 2014 Indiana Building Code.
c. Seismic Loads: 2014 Indiana Building Code.

2. Deflection Limits: Design framing systems to withstand design loads without deflections greater than the following:

a. Exterior Non-Load-Bearing Framing: Horizontal deflection of 1/600 of the wall height.

3. Design framing systems to provide for movement of framing members without damage or overstressing, sheathing failure, connection failure, undue strain on fasteners and anchors, or other detrimental effects when subject to a maximum ambient temperature change of 120 deg F (67 deg C).
4. Design framing system to maintain clearances at openings, to allow for construction tolerances, and to accommodate live load deflection of primary building structure as follows:

a. Upward and downward movement of 3/4 inch (19 mm).

B. Cold-Formed Steel Framing, General: Design according to AISI's "Standard for Cold-Formed Steel Framing - General Provisions."

1. Headers: Design according to AISI's "Standard for Cold-Formed Steel Framing - Header Design."
2. Design exterior non-load-bearing wall framing to accommodate horizontal deflection without regard for contribution of sheathing materials.
3. Roof Trusses: Design according to AISI's "Standard for Cold-Formed Steel Framing - Truss Design."

1.4 SUBMITTALS

A. Product Data: For each type of cold-formed metal framing product and accessory indicated.

B. Shop Drawings: Show layout, spacings, sizes, thicknesses, and types of cold-formed metal framing; fabrication; and fastening and anchorage details, including mechanical fasteners. Show reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.

1. For cold-formed metal framing indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

C. Welding certificates.

D. Qualification Data: For professional engineer testing agency.

E. Product Test Reports: From a qualified testing agency, unless otherwise stated, indicating that each of the following complies with requirements, based on evaluation of comprehensive tests for current products:

1. Steel sheet.
2. Expansion anchors.
3. Power-actuated anchors.
4. Mechanical fasteners.
5. Vertical deflection clips.
6. Horizontal drift deflection clips
7. Miscellaneous structural clips and accessories.

F. Research/Evaluation Reports: For cold-formed metal framing.

1.5 QUALITY ASSURANCE

A. Engineering Responsibility: Preparation of Shop Drawings, design calculations, and other structural data by a qualified professional engineer.

B. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of cold-formed metal framing that are similar to those indicated for this Project in material, design, and extent.

C. Testing Agency Qualifications: An independent testing agency, acceptable to authorities having jurisdiction, qualified according to ASTM E 329 to conduct the testing indicated.

D. Product Tests: Mill certificates or data from a qualified independent testing agency, or in-house testing with calibrated test equipment indicating steel sheet complies with requirements, including base-metal thickness, yield strength, tensile strength, total elongation, chemical requirements, ductility, and metallic-coating thickness.

E. Welding: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code--Steel," and AWS D1.3, "Structural Welding Code--Sheet Steel."

F. Fire-Test-Response Characteristics: Where indicated, provide cold-formed metal framing identical to that of assemblies tested for fire resistance per ASTM E 119 by a testing and inspecting agency acceptable to authorities having jurisdiction.

G. AISI Specifications and Standards: Comply with AISI's "North American Specification for the Design of Cold-Formed Steel Structural Members" and its "Standard for Cold-Formed Steel Framing - General Provisions."

1. Comply with AISI's "Standard for Cold-Formed Steel Framing - Truss Design."
2. Comply with AISI's "Standard for Cold-Formed Steel Framing - Header Design."

H. Comply with AISI's "Standard for Cold-Formed Steel Framing - Prescriptive Method for One and Two Family Dwellings."

I. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination."

1.6 DELIVERY, STORAGE, AND HANDLING

A. Protect cold-formed metal framing from corrosion, deformation, and other damage during delivery, storage, and handling.

B. Store cold-formed metal framing, protect with a waterproof covering, and ventilate to avoid condensation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering cold-formed metal framing that may be incorporated into the Work include, but are not limited to, the following:

B. Manufacturers: Subject to compliance with requirements, provide cold-formed metal framing by one of the following:

1. Allied Studco.
2. AllSteel Products, Inc.
3. California Expanded Metal Products Company.
4. Clark Steel Framing.
5. Consolidated Fabricators Corp.; Building Products Division.
6. Craco Metals Manufacturing, LLC.
7. Custom Stud, Inc.
8. Dale/Incor.
9. Design Shapes in Steel.
10. Dietrich Metal Framing; a Worthington Industries Company.
11. Formetal Co. Inc. (The).
12. Innovative Steel Systems.
13. MarinoWare; a division of Ware Industries.
14. Quail Run Building Materials, Inc.
15. SCAFCO Corporation.
16. Southeastern Stud & Components, Inc.
17. Steel Construction Systems.
18. Steeler, Inc.
19. Super Stud Building Products, Inc.
20. United Metal Products, Inc.

2.2 MATERIALS

A. Recycled Content of Steel Products: Provide products with an average recycled content of steel products so postconsumer recycled content plus one-half of preconsumer recycled content is not less than 25 percent.

B. Steel Sheet: ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of grade and coating weight as follows:

1. Grade: ST33H (ST230H) ST50H (ST340H) .
2. Coating: G90 (Z275) or equivalent.

C. Steel Sheet for Vertical Deflection Clips: ASTM A 653/A 653M, structural steel, zinc coated, of grade and coating as follows:

1. Grade: 50 (340), Class 1 or 2.
2. Coating: G90 (Z275).

2.3 EXTERIOR FRAMING

A. Manufacturer's standard C-shaped steel sections, of web depths indicated, unpunched, punched with enlarged service holes, with stiffened flanges, and as follows:

1. Minimum Base-Metal Thickness: 0.0329 inch (0.84 mm).
2. Flange Width: 1-5/8 inches (41 mm), minimum.

2.4 FRAMING ACCESSORIES

A. Fabricate steel-framing accessories from steel sheet, ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of same grade and coating weight used for framing members.

B. Provide accessories of manufacturer's standard thickness and configuration, unless otherwise indicated, as follows:

1. Supplementary framing.
2. Bracing, bridging, and solid blocking.
3. Web stiffeners.
4. Anchor clips.
5. End clips.
6. Foundation clips.
7. Gusset plates.
8. Stud kickers, knee braces, and girts.
9. Joist hangers and end closures.
10. Hole reinforcing plates.
11. Backer plates.

2.5 ANCHORS, CLIPS, AND FASTENERS

A. Steel Shapes and Clips: ASTM A 36/A 36M, zinc coated by hot-dip process according to ASTM A 123/A 123M.

B. Anchor Bolts: ASTM F 1554, Grade 36, threaded carbon-steel headless, hooked bolts and carbon-steel nuts; and flat, hardened-steel washers; zinc coated by hot-dip process according to ASTM A 153/A 153M, Class C.

C. Expansion Anchors: Fabricated from corrosion-resistant materials, with capability to sustain, without failure, a load equal to 5 times design load, as determined by testing per ASTM E 488 conducted by a qualified independent testing agency.

D. Power-Actuated Anchors: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with capability to sustain, without failure, a load equal to 10 times design load, as determined by testing per ASTM E 1190 conducted by a qualified independent testing agency.

E. Mechanical Fasteners: ASTM C 1513, corrosion-resistant-coated, self-drilling, self-tapping steel drill screws.

1. Head Type: Low-profile head beneath sheathing, manufacturer's standard elsewhere.

F. Welding Electrodes: Comply with AWS standards.

2.6 MISCELLANEOUS MATERIALS

A. Galvanizing Repair Paint: SSPC-Paint 20 or DOD-P-21035.

B. Nonmetallic, Nonshrink Grout: Premixed, nonmetallic, noncorrosive, nonstaining grout containing selected silica sands, portland cement, shrinkage-compensating agents, and plasticizing and water-reducing agents, complying with ASTM C 1107, with fluid consistency and 30-minute working time.

C. Shims: Load bearing, high-density multimonomer plastic, nonleaching.

D. Sealer Gaskets: Closed-cell neoprene foam, 1/4 inch (6.4 mm) thick, selected from manufacturer's standard widths to match width of bottom track or rim track members.

2.7 FABRICATION

A. Fabricate cold-formed metal framing and accessories plumb, square, and true to line, and with connections securely fastened, according to referenced AISI's specifications and standards, manufacturer's written instructions, and requirements in this Section.

1. Fabricate framing assemblies using jigs or templates.
2. Cut framing members by sawing or shearing; do not torch cut.
3. Fasten cold-formed metal framing members by welding, screw fastening, clinch fastening, or riveting as standard with fabricator. Wire tying of framing members is not permitted.

    a. Comply with AWS D1.3 requirements and procedures for welding, appearance and quality of welds, and methods used in correcting welding work.
    b. Locate mechanical fasteners and install according to Shop Drawings, with screw penetrating joined members by not less than three exposed screw threads.

4. Fasten other materials to cold-formed metal framing by welding, bolting, or screw fastening, according to Shop Drawings.

B. Reinforce, stiffen, and brace framing assemblies to withstand handling, delivery, and erection stresses. Lift fabricated assemblies to prevent damage or permanent distortion.

C. Fabrication Tolerances: Fabricate assemblies level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 feet (1:960) and as follows:

1. Spacing: Space individual framing members no more than plus or minus 1/8 inch (3 mm) from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.
2. Squareness: Fabricate each cold-formed metal framing assembly to a maximum out-of-square tolerance of 1/8 inch (3 mm).

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine supporting substrates and abutting structural framing for compliance with requirements for installation tolerances and other conditions affecting performance.

1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Before sprayed fire-resistive materials are applied, attach continuous angles, supplementary framing, or tracks to structural members indicated to receive sprayed fire-resistive materials.

B. After applying sprayed fire-resistive materials, remove only as much of these materials as needed to complete installation of cold-formed framing without reducing thickness of fire-resistive materials below that are required to obtain fire-resistance rating indicated. Protect remaining fire-resistive materials from damage.

C. Install sealer gaskets to isolate the underside of wall bottom track or rim track and the top of foundation wall or slab at stud or joist locations.

3.3 INSTALLATION, GENERAL

A. Cold-formed metal framing may be shop or field fabricated for installation, or it may be field assembled.

B. Install cold-formed metal framing according to AISI's "Standard for Cold-Formed Steel Framing - General Provisions" and to manufacturer's written instructions unless more stringent requirements are indicated.

C. Install shop- or field-fabricated, cold-formed framing and securely anchor to supporting structure.

1. Screw, bolt, or weld wall panels at horizontal and vertical junctures to produce flush, even, true-to-line joints with maximum variation in plane and true position between fabricated panels not exceeding 1/16 inch (1.6 mm).

D. Install cold-formed metal framing and accessories plumb, square, and true to line, and with connections securely fastened.

1. Cut framing members by sawing or shearing; do not torch cut.
2. Fasten cold-formed metal framing members by welding, screw fastening, clinch fastening, or riveting. Wire tying of framing members is not permitted.

a. Comply with AWS D1.3 requirements and procedures for welding, appearance and quality of welds, and methods used in correcting welding work.
b. Locate mechanical fasteners and install according to Shop Drawings, and complying with requirements for spacing, edge distances, and screw penetration.

E. Install framing members in one-piece lengths unless splice connections are indicated for track or tension members.

F. Install temporary bracing and supports to secure framing and support loads comparable in intensity to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire integrated supporting structure has been completed and permanent connections to framing are secured.

G. Do not bridge building expansion and control joints with cold-formed metal framing. Independently frame both sides of joints.

H. Install insulation, specified in Division 07 Section "Thermal Insulation," in built-up exterior framing members, such as headers, sills, boxed joists, and multiple studs at openings, that are inaccessible on completion of framing work.

I. Fasten hole reinforcing plate over web penetrations that exceed size of manufacturer's standard punched openings.

J. Erection Tolerances: Install cold-formed metal framing level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 feet (1:960) and as follows:

1. Space individual framing members no more than plus or minus 1/8 inch (3 mm) from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.

3.4 FIELD QUALITY CONTROL

A. Testing: Engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.

B. Field and shop welds will be subject to testing and inspecting.

C. Testing agency will report test results promptly and in writing to Contractor and Architect.

D. Remove and replace work where test results indicate that it does not comply with specified requirements.

E. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.5 REPAIRS AND PROTECTION

A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed cold-formed metal framing with galvanized repair paint according to ASTM A 780 and manufacturer's written instructions.

B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that cold-formed metal framing is without damage or deterioration at time of Substantial Completion.

END OF SECTION 05 40 00

SECTION 07 42 13
METAL WALL PANELS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Manufactured concealed-fastener metal panels for exterior walls, soffits, and canopy fascia and underside applications; subgirt framing assemblies; related flashings and accessory components.

1.02 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data - Wall System: Manufacturer's data sheets on each product to be used, including:
   1. Physical characteristics of components shown on shop drawings.
   2. Include panel orientation, attachment and support requirements for wall, soffit, and canopy applications.

C. Shop Drawings: Indicate dimensions, layout, joints, construction details, support clips, and methods of anchorage.
   1. Indicate attachment spacing and demonstrate compliance with specified design pressures based on panel manufacturer's published load/span data.

D. Samples: Submit two samples of wall panel and soffit panel, 12 inches by 12 inches (305 mm by 305 mm) in size illustrating finish color, sheen, and texture.

1.03 DELIVERY, STORAGE, AND HANDLING

A. Protect panels from accelerated weathering by removing or venting sheet plastic shipping wrap.

B. Store prefinished material off the ground and protected from weather; prevent twisting, bending, or abrasion; provide ventilation; slope metal sheets to ensure proper drainage.

C. Prevent contact with materials that may cause discoloration or staining of products.

1.04 WARRANTY

A. See Section 01 77 00 - Contract Closeout for additional warranty requirements.

B. Correct defective work within a twenty year period after Date of Substantial Completion for degradation of panel finish, including color fading caused by exposure to weather.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Metal Wall Panels - Concealed Fasteners:
   1. Basis of Design Product: Morin Corporation, a Kingspan Group company; Classic Z-12 Concealed Fastener Panel.
   2. Elevate: www.holcimelevate.com
   3. ATAS International, Inc; Multi-Purpose Panels _____: www.atas.com
   4. Centria, a Nucor Company; Cascade Series: www.centria.com.
   5. Equivalent products by other manufacturers are acceptable provided panel profile, dimensions, substrate, gauge, finish, color, attachment system, and performance comply with specified requirements.

2.02 METAL WALL PANEL SYSTEM

A. Wall Panel System: Factory fabricated prefinished metal panel system, site assembled.
   1. Design and size components to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of wall.
   2. Design Pressure: In accordance with applicable codes.
   3. Maximum Allowable Deflection of Panel: L/180 for length(L) of span.
   4. Movement: Accommodate movement within system without damage to components or deterioration of seals, movement between system and perimeter components when subject to seasonal temperature cycling; dynamic loading and release of loads; and deflection of structural support framing.
   5. Drainage: Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.

6. Fabrication: Formed true to shape, accurate in size, square, and free from distortion or defects; pieces of longest practical lengths.
7. Corners: Provide manufacturer's standard corner trim or fabricated corner assemblies as indicated on Drawings.

B. Internal and External Corners: Same material, thickness, and finish as exterior sheets; profile to suit system; shop cut and factory mitered to required angles.

C. Expansion Joints: Same material, thickness and finish as exterior sheets; thickness as noted on drawings; manufacturer's standard brake formed type, of profile to suit system.

D. Trim: Same material, thickness and finish as exterior sheets; brake formed to required profiles.

E. Anchors: Galvanized steel.

F. Panel Profile:
1. Profile: Double-chevron profile matching Morin Classic Z-12.
2. Nominal Coverage Width: 12 inches.
3. Nominal Panel Depth: 1-1/2 inches.
4. Attachment: Concealed clip and fastener system.
5. Orientation: As indicated on Drawings.

G. ***Vented Soffit Panels: Provide factory-fabricated vented metal soffit panels at locations indicated on Drawings. Match adjacent metal panels in material, profile, finish, and color. Provide ventilation openings and insect screening as required for the application, with net free ventilation area as indicated on Drawings.***

2.03 MATERIALS

A. Steel Sheet: ASTM A792/A792M, AZ50 Galvalume/Zincalume steel sheet, 24 gauge minimum, factory prefinished.

2.04 FINISHES

A. Fluoropolymer Coil Coating System: Polyvinylidene fluoride (PVDF) multi-coat superior performing organic coatings system complying with AAMA 2605, including at least 70 percent PVDF resin, and at least 80 percent of coil coated metal surfaces having minimum total dry film thickness (DFT) of 0.9 mil, 0.0009 inch (0.023 mm); color and gloss as selected by Architect from manufacturer’s standard line.

2.05 ACCESSORIES

A. Cladding Support Clips: Thermally-broken, galvanized steel clips for support of cladding z-girts, angles, channels, and other framing.
1. Galvanized Steel Support Clip: G90/Z275 galvanized coating complying with ASTM A653/A653M support clip with integral glass fiber reinforced polyamide thermal isolator pad.
2. Clip Depth: As indicated on drawings.

B. Sealant: Elastomeric; silicone or silyl-terminated polyether/polyurethane.
1. Types recommended by metal panel manufacturer for indicated application and compatible with panel finish, weather barrier, and adjacent materials.

C. Fasteners: Manufacturer's standard type to suit application; with soft neoprene washers, steel, hot dip galvanized. Fastener cap same color as exterior panel.
1. Metal-to-Metal Fasteners: Self-drilling, self-tapping screws.

D. Field Touch-up Paint: As recommended by panel manufacturer.

E. Bituminous Paint: Asphalt base.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that building framing members are ready to receive panels.

3.02 PREPARATION

A. Install subgirts perpendicular to panel length, securely fastened to substrates and shimmed and leveled to uniform plane. Space at 24 inches on center, maximum (at 610 mm on center, maximum).

B. Protect surrounding areas including installed roofing systems and adjacent surfaces from damage during execution of this work.

3.03 INSTALLATION

A. Install panels on walls, soffits, and canopy fascia and underside in accordance with manufacturer's instructions.

B. Protect surfaces in contact with cementitious materials and dissimilar metals with bituminous paint; allow to dry prior to wall panel installation.

C. Fasten panels to structural supports; aligned, level, and plumb.

D. Locate joints over supports.

E. Join panel ends using manufacturer's standard concealed splice, trim, flashing, or end-joint detail as indicated on approved shop drawings.

F. Provide expansion and control joints where indicated.

G. Use concealed fasteners unless otherwise indicated by Architect.

H. Seal and place gaskets to prevent weather penetration. Maintain neat appearance.

3.04 TOLERANCES

A. Offset From True Alignment Between Adjacent Members Abutting or In Line: 1/16 inch (1.6 mm), maximum.

B. Variation from Plane or Location As Indicated on Drawings: 1/4 inch (6.4 mm), maximum.

3.05 CLEANING

A. Remove site cuttings from finish surfaces.

B. Remove protective material from wall panel surfaces.

C. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.

3.06 PROTECTION

A. Protect metal wall panels until completion of project.

B. Touch-up, repair, or replace damaged wall panels or accessories before Date of Substantial Completion.

END OF SECTION 07 42 13

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SECTION 08 80 00
GLAZING

PART 1 GENERAL

1.01 SUMMARY

A. Section includes:
   1. Interior Glazing
      a. Safety glass in locations identified in Part 3.
      b. Clear glass in HM doors and frames.
      c. Clear glass in wood doors.
      d. One-way glazing at two borrowed lites (W10) in Room 1022 Simulation Lab.
      e. Display Cases including:
         1) Clear glass shelves, standards, brackets.
         2) Sliding glass tracks with clear glazing.
      f. Laminated safety glazing at clasrrom door sidelites.
      g. ~~**Ballistic-resistant glazing at interior secure vestibule barrier, including glazing in Doors 1002-1 and 1000-3 and adjacent interior storefront, sidelites, and fixed glazing enclosing the secure vestibule.**~~ ***Security glazing laminate applied to interior glazing at secure vestibule barrier, including glazing in Doors 1002-1 and 1000-3 and adjacent interior storefront, sidelites, and fixed glazing enclosing the secure vestibule.***
   2. Exterior Insulated Glazing
      a. Tinted insulating glass in exterior aluminum doors, windows, storefront, and curtain wall.
      b. Spandrel glass in windows, storefront and curtainwall.

1.02 QUALITY ASSURANCE

A. Reference Specification: Glazing Manual by Flat Glass Marketing Association.
B. Materials: Conform in all respects to the "Safety Standard for Architectural Glazing Materials" (16CFR 1201) issued by the Consumer Product Safety Commission and Chapter 24 of the International Building Code.
C. Insulating glass units to be CBA rated with the Insulating Glass Certification Council (IGCC) in accordance with ASTM Specifications E-773 and E-774.
D. Safety Glass: Category II materials complying with 16 CFR 1201 and ANSI Z97.1. Permanently mark safety glazing with certification label of an acceptable certification agency.

1.03 SUBMITTALS

A. Submit per Section 01 30 00 - Administrative Requirements.
   1. Product data:
      a. Insulating glass units.
      b. ~~**Ballistic-resistant glazing.**~~ ***Security glazing laminate.***
      c. One-way glazing.
   2. Samples for each type glass specified.
   3. ~~**Shop Drawings for Ballistic-Resistant Glazing: Show glazing composition and thickness, required glazing bite, stops, setting blocks, framing, anchorage, and coordination with doors and frames.**~~ ***Product Data and Installation Requirements for Security Glazing Laminate: Submit manufacturer's product information, installation instructions, and glazing compatibility requirements.***
   4. Sample warranties.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Package, handle, deliver and store at the job site in a manner that will avoid damage.
B. Reject scratched glass.

1.05 WARRANTY

A. See Section 01 77 00 - Contract Closeout for additional warranty requirements.

B. Manufacturer Warranty: Provide five-year manufacturer warranty against failure of laminated glass products. Complete forms in Owner's name and register with manufacturer.

C. Manufacturer Warranty: Provide ten year manufacturer warranty against failure of glass seal on insulating glass units, including interpane dusting or misting. Include provision for replacement of failed units. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS/FABRICATORS

A. Glass Manufacturers and/or Coating Manufacturers:
1. AGC Glass North America, Inc.: www.us.agc.com.
2. Cardinal Glass Industries: www.cardinalcorp.com.
3. Guardian Industries, LLC: www.sunguardglass.com.
4. Old Castle Building Products: www.oldcastlebe.com.
5. Pilkington North America, Inc.: www.pilkington.com.
6. Viracon, Inc.: www.viracon.com.
7. Vitro Architectural Glass: www.vitroglazings.com.

B. ***Security Glazing Laminate Manufacturer:***
1. ***Safe Haven Defense: www.safehavendefense.com.***

C. ~~**Security Glass Manufacturers:**~~
1. ~~**School Guard Glass (SGG), www.schoolguardglass.com.**~~
2. ~~**Global Security Glazing, www.security-glazing.com;**~~
3. ~~**Old Castle Building Products, www.oldcastlebe.com;**~~
4. ~~**McGrory Glass, www.mcgrory.com;**~~

D. Interlayer Manufacturers: Vanceva, www.vanceva.com, or equal.

E. Glass Product Fabricators: As certified by glass manufacturers and/or coating manufacturers.

2.02 INTERIOR GLAZING

A. Clear:
1. Clear float glass, ¼ inch (6.35 mm) thick.
2. Clear float glass, 1/2 inch (12.7 mm) thick for panes having a height or width of 72 inches (1828.8 mm) or greater.

B. Safety:
1. Clear heat-tempered float glass, ¼ inch (6.35 mm) thick.
2. Clear heat-tempered float glass, 1/2 inch (12.7 mm) thick for panes having a height or width of 72 inches (1828.8 mm) or greater.
3. Laminated glass, 5/16 inch (7.9375 mm) thick, consisting of 1/8 inch (3.175 mm) thick heat-tempered float glass, interlayer of 0.030 inch (0.762 mm) thick clear Poly Vinyl Butyral (PVB), 1/8 inch (3.125 mm) thick heat-tempered float glass.

C. ~~**Ballistic-Resistant Glazing:**~~
1. ~~**Clear, transparent ballistic-resistant laminated glazing.**~~
2. ~~**Ballistic Resistance: Tested and certified to UL 752**~~
3. ~~**Safety Glazing: Comply with 16 CFR 1201, Category II, and ANSI Z97.1.**~~
4. ~~**Glass Composition and Thickness: Manufacturer's standard construction required to achieve specified ballistic resistance and accommodate indicated opening sizes.**~~
5. ~~**Coordinate glazing thickness, weight, edge engagement, glazing stops, setting blocks, doors, framing, hardware, and anchorage.**~~
6. ~~**Glazing and supporting framing components forming the secure barrier shall be compatible with the specified ballistic-resistant glazing.**~~
7. ~~**Provide products by one of the specified security glazing manufacturers capable of meeting specified performance.**~~
8. ~~**Locations: Glazing in Doors 1002-1 and 1000-3 and adjacent interior storefront, sidelites, and fixed glazing forming the interior secure vestibule barrier.**~~

D. ***Security Glazing Laminate:***
   1. ***Clear, transparent security glazing laminate applied to interior safety glazing.***
   2. ***Manufacturer: Safe Haven Defense.***
   3. ***Product: Security glazing laminate system as approved by Owner.***
   4. ***Provide glazing complying with safety glazing requirements specified in this Section.***
   5. ***Coordinate laminate application, glass thickness, framing, and anchorage with manufacturer's written requirements.***
   6. ***Install complete security laminate system, including perimeter attachment where required by manufacturer.***
   7. ***Locations: Glazing in Doors 1002-1 and 1000-3 and adjacent interior storefront, sidelites, and fixed glazing forming the interior secure vestibule barrier.***

E. Reflective
   1. One-way insulated:
      a. 1 inch (25.4 mm) thick, or similar products by other specified manufacturers:
         1) Outboard lite of ¼ inch (6.35 mm) Guardian SunGuard Silver 20 on surface #2.
         2) ½ inch (12.7 mm) airspace-mill finish.
         3) Inboard lite of ¼ inch (6.35 mm) Guardian SunGuard MidnightGray.
      b. Reflectance out: 30%.
      c. Reflectance in: 4%.
      d. Location: Borrowed Lites W10 at Room 1022 Simulation Lab.
      e. Orient glazing to permit observation into Simulation Lab from adjacent observation room / collaboration room side while limiting visibility from Simulation Lab toward observer. Coordinate orientation with glazing manufacturer's written recommendations.

F. Translucent/Opaque
   1. Spandrel, ¼ inch (6.35 mm) thick, painted with foil backing.

G. Glass Shelves
   1. Clear Fully Tempered Float Glass, 1/4 inch (6.35 mm) thick.
   2. Ground edges and corners.

H. Display Case Sliding Glass:
   1. Clear fully tempered float glass, 1/4 inch thick.
   2. Polish exposed edges.
   3. Size glass for sliding-track assembly specified under Accessories.

2.03 EXTERIOR GLAZING

A. Low-E glass to be solar control (MSVD coating process).

B. For locations requiring safety glazing, provide heat-tempered glass for inboard and outboard lites, unless laminated glazing is called out on drawings or specified.

C. Tinted Insulated Glass (Type ET1).
   1. 1 inch overall thickness insulating glass.
      a. Exterior Glass Ply: 1/4 inch Guardian SunGuard SNX 51/23 on Gray, or similar product by another specified glass/coating manufacturer matching specified color and performance.
      b. Low-E coating on Surface No. 2.
      c. Spacer: Manufacturer's standard black spacer.
      d. Airspace: 1/2 inch, air or argon filled as required to meet specified performance.
      e. Silicone: Black.
      f. Interior Glass Ply: 1/4 inch clear.
   2. Performance Requirements:
      a. Visible Light Transmittance: 26 percent nominal.
      b. Visible Light Reflectance, Exterior: 7 percent nominal.
      c. Visible Light Reflectance, Interior: 13 percent nominal.
      d. Winter U-Factor: 0.29 maximum.

e. Solar Heat Gain Coefficient: 0.16 maximum.
f. Light-to-Solar Gain Ratio: 1.57 nominal.

3. Provide safety glass plies where required by code or indicated on Drawings.

D. Single Pane Spandrel: (Type SPS1).

1. Clear Float Glass, ¼ inch (6.35 mm) thick, painted on surface #2 with 2 inch (50.8 mm) foil backed rigid fiberglass insulation adhered to painted surface. Sealed to framing with silicone to proved a vapor barrier.
   a. Color: As selected by Architect to coordinate with adjacent vision glazing and framing..

2.04 ACCESSORIES

A. Glazing Sealant: Two-part silicone similar to Dow Corning 982 Insulating Glass Sealant. Glazer is responsible to verify compatibility to primary seal material.

B. Setting Blocks: 100% silicone, 85+/- 5 Shore "A" durometer, located and sized to accommodate the requirements of the glazing fabricator, and compatible with glazing sealant.

C. Spacers: Warm edge thermal plastic.

D. Primer - Sealers, Cleaners: As recommended by glass manufacturer.

E. Glazing Tape, Back Bedding Mastic Type: Preformed, butyl-based, 100 percent solids compound with integral resilient spacer rod applicable to application indicated; 5 to 30 cured Shore A durometer hardness; coiled on release paper; black color.

F. Sliding Glass Door Assembly:

1. For ¼ inch (6.35 mm) glass panels up to 80 pounds (36.2873896 kg) .
2. Provide complete assembly including tracks, retainers, shoes, wheel assemblies, top moldings, door guides, channels, jambs, bumpers, end caps, and lock assembly.

PART 3 EXECUTION

3.01 INSPECTION

A. Check that glazing channels are free of burrs, irregularities, and debris.

B. Check that glass is free of edge damage or face imperfections.

C. Do not proceed with installation until conditions are satisfactory.

3.02 PREPARATION

A. Field Measurements:

1. Measure size of frame to receive glass.
2. Compute actual glass size, allowing for edge clearances.

B. Preparation of Surfaces:

1. Remove protective coatings from surfaces to be glazed.
2. Clean glass and glazing surfaces, to remove dust, oil and contaminants. Wipe dry.

3.03 SAFETY GLAZING

A. Install safety glazing at the following locations and/or as required by local building codes.

1. Doors and adjacent glazing:
   a. In doors when glass is wider than 2-15/16 inch (74.6125 mm) .
   b. Glass within 24 inch (609.6 mm) of vertical door edges and to a point 60 inch (1524 mm) above the floor.
2. Individual fixed or operable panels when any of the following conditions are met:
   a. Individual panes 9 square feet (0.836127 square meter) and greater.
   b. Glass within 18 inch (457.2 mm) of the floor.
   c. When exposed individual pane is greater than 36 inch (914.4 mm) above the floor, except when a horizontal mullion is detailed between 34 inch (863.6 mm) and 38 inch (965.2 mm) above the floor.
   d. Walking surfaces within 36 inches (914.4 mm) horizontally of the pane of glazing.
3. Stairs, landings and ramps:
   a. In guards or railings adjacent to stairs, landings and ramps.

b. Glazing adjacent to stairways, landings and ramps within 36 inch (914.4 mm) horizontally of walking surface and less than 60 inch (1524 mm) above pane of adjacent walking surface.
c. Glazing adjacent to bottom tread of stairways within 60 inch (1524 mm) horizontally and less than 60 inch (1524 mm) above the nose of the tread, unless the glass is protected by a guardrail and the glass is greater than 18 inch (457.2 mm) of the guardrail.

3.04 ONE WAY GLAZING

A. Install one-way glazing at Borrowed Lite W10 at Room 1022 Simulation Lab.
B. Orient glazing in accordance with manufacturer's recommendations to provide observation into Simulation Lab from adjacent observation side.
C. Coordinate final orientation before installation.

3.05 ~~BALLISTIC-RESISTANT GLAZING~~

A. ~~**Install ballistic-resistant glazing in accordance with glazing manufacturer's written instructions and tested assembly requirements.**~~
B. ~~**Provide required glazing bite, setting blocks, stops, sealants, and attachment necessary for specified performance.**~~
C. ~~**Coordinate glazing with doors, storefront framing, hardware, and anchorage forming secure vestibule barrier.**~~

3.06 *SECURITY GLAZING LAMINATE*

A. ***Install security glazing laminate in accordance with Safe Haven Defense manufacturer's written instructions.***
B. ***Prepare glazing surfaces and provide complete installation, including perimeter attachment where required by manufacturer.***
C. ***Coordinate installation with doors, storefront framing, hardware, and anchorage forming secure vestibule barrier.***

3.07 INSTALLATION

A. Install glass in accordance with glass manufacturer's current printed instructions.
B. Install sliding glass doors in accordance with manufacturer's instructions and as shown on Drawings.

3.08 CLEANING

A. Remove excess glazing compound from installed glass.
B. Remove labels from glass surface as soon as installed.
C. Wash and polish both faces of glass.
D. Remove debris from work site.

3.09 PROTECTION OF COMPLETED WORK

A. Attach crossed streamers away from glass face.
B. Do not apply markers to glass surface.
C. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

3.10 GLAZING SCHEDULE

A. INT-1 – Interior Safety Glazing: Clear fully tempered safety glazing at interior storefront, borrowed lites, vision panels, and glazed doors except where another type is indicated.
B. LAM-1 – Laminated Safety Glazing: Classroom door sidelites where indicated.
C. OW-1 – One-Way Glazing: Borrowed Lite W10 at Room 1022 Simulation Lab.
D. ~~**BR-1 – Ballistic-Resistant Glazing: Doors 1002-1 and 100-3 and adjacent interior storefront, sidelite, and fixed glazing forming the interior secure vestibule barrier.**~~
E. ***SL-1 – Security Glazing Laminate: Safe Haven Defense security glazing laminate applied to interior safety glazing at Doors 1002-1 and 1000-3 and adjacent interior storefront, sidelites, and fixed glazing forming the interior secure vestibule barrier.***
F. DC-1 – Display Case Glazing: Hallway display cases.
G. ET1 – Tinted Insulated Glazing: Exterior aluminum doors, windows, storefront, and curtain wall except where another type is indicated.

END OF SECTION 08 80 00

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SECTION 09 05 61
COMMON WORK RESULTS FOR FLOORING PREPARATION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. This section applies to floors identified in Contract Documents that are receiving the following types of floor coverings:
   1. Resilient tile.
   2. Carpet tile.
   3. Epoxy Painted Concrete.
   4. Grinding or leveling of floors if required to meet floor flatness requirements.
   5. Resinous epoxy.
   6. Including the following Specification Sections:
      a. 09 30 00 Tile.
      b. 09 65 00 Resilient Flooring.
      c. ~~**09 65 66 Resilient Athletic Flooring.**~~
      d. ~~**09 66 23 Epoxy Resinous Matrix Terrazzo Flooring.**~~ ***09 67 23 Resinous Flooring.***
      e. 09 67 00 Fluid-Applied Flooring.
      f. 09 68 13 Carpet Flooring.

B. Removal of existing floor coverings.

C. ~~**Preparation of new and existing concrete floor slabs for installation of floor coverings.**~~

D. Testing of concrete floor slabs for moisture and alkalinity (pH).

E. Patching compound.

F. Epoxy Moisture Mitigation System over existing slab on grade, if required, or unless a breathable flooring is being installed.

G. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens); 2021.

H. ASTM C472 - Standard Test Methods for Physical Testing of Gypsum, Gypsum Plasters, and Gypsum Concrete; 2020.

I. RFCI (RWP) - Recommended Work Practices for Removal of Resilient Floor Coverings; 2018.

1.02 SUBMITTALS

A. Submittals are referenced in the Flooring Specifications.

B. Visual Observation Report: For existing floor coverings to be removed.

C. Product Data: Substrate preparation materials.

D. Epoxy Moisture Mitigation System Product Data: Manufacturer's published data on each product to be used for remediation.
   1. Manufacturer's qualification statement for training of Installer.
   2. Specimen Warranty: Copy of warranty to be issued by coating manufacturer and certificate of underwriter's coverage of warranty.

E. Flooring Installer's Concrete Moisture and pH Test Report:
   1. Description of areas tested; include floor plans and photographs if helpful.
   2. Summary of conditions encountered.
   3. Copies of specified test methods.
   4. Recommendations for remediation of unsatisfactory surfaces.
   5. Submit report not more than two business days after conclusion of testing.

1.03 QUALITY ASSURANCE

A. Epoxy Moisture Mitigation Coating Installer Qualifications: Company specializing in performing work of the type specified in this section, trained by or employed by coating manufacturer, and able to provide at least 3 project references showing at least 3 years' experience installing moisture emission coatings.

1.04 CONCRETE MOISTURE AND PH TESTING

A. For concrete slabs receiving adhered flooring, flooring installer shall perform moisture and pH testing of concrete substrates prior to flooring installation.
   1. Perform concrete moisture testing using in situ relative humidity probes in accordance with ASTM F2170 and the flooring manufacturer's written requirements.
   2. Perform pH testing in accordance with ASTM F710 and the flooring manufacturer's written requirements.
   3. Number and location of tests shall comply with applicable ASTM standards and flooring manufacturer's requirements.
   4. Submit written test results to Architect prior to installation of flooring. Do not install flooring until concrete moisture and pH conditions comply with the flooring and adhesive manufacturers' published limitations.
   5. Where required by the flooring or adhesive manufacturer, perform field adhesion testing using the specified flooring products and adhesives. Perform testing in accordance with manufacturer's written instructions and ASTM F710.
   6. Flooring Installer shall be responsible for concrete moisture, pH, and adhesion testing required to verify substrate suitability for installation.
   7. Flooring installer’s commencement of flooring installation constitutes acceptance of concrete substrate conditions.

1.05 FLOOR FLATNESS

A. For new concrete slabs on grade and elevated structural slabs/topping as specified in Section 03 30 13 floor flatness is specified per ACI 117 as follows:
   1. For floors requiring a "moderately flat tolerance" (typically carpet):
      a. F (F) Flat tolerance with an overall value of 25 and a minimum localized value of 15.
      b. F (L) Flat tolerance with an overall value of 20 and a minimum localized value of 12.
      c. Measured by a manual straightedge method a “flat” floor surface classification, maximum gap for 90% compliance, samples not to exceed 3/8 inch (9.53 mm) and for 100% compliance, samples not to exceed 5/8 inch (15.88 mm).
   2. For floors requiring a "flat or greater tolerance": typically resilient, vinyl tile, and thin-set ceramic/porcelain tile up to 16 inches (406 mm) in size without mortar beds and finishes with greater tolerances of resilient athletic flooring and thin-set ceramic/porcelain tile over 16 inches (406 mm) in size without mortar beds:
      a. F (F) Flat tolerance with an overall value of 35 and a minimum localized value of 21.
      b. F (L) Flat tolerance with an overall value of 25 and a minimum localized value of 15.
      c. Measured by a manual straightedge method a “flat” floor surface classification, maximum gap for 90% compliance, samples not to exceed ¼ inch (6.35 mm) and for 100% compliance, samples not to exceed 3/8 inch (9.53 mm).

B. New Concrete Slabs: Concrete Contractor shall provide slabs complying with the floor flatness requirements specified in Section 03 30 13. Flooring Contractor shall provide localized grinding, patching, and leveling required by flooring manufacturer after acceptance of a compliant concrete substrate.

C. Existing Concrete Slabs: The flooring contractor will be responsible to provide the necessary means (i.e., grinding/leveling) for leveling as required by the flooring manufacturer for existing concrete floor substrates as follows:
   1. On remodeling projects, assume 20% of area will require filling, or leveling up to 1/4 inch (6.35 mm) in height.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, handle, and protect products in accordance with manufacturer’s instructions and recommendations.

B. Deliver materials in manufacturer’s packaging; include installation instructions.

C. Keep materials from freezing.

PART 2 PRODUCTS

2.01 MATERIALS

A. Substrate Prep and Patching:

1. Patching Compound/Subfloor : Floor covering manufacturer's recommended product, suitable for conditions, and compatible with adhesive and floor covering. In the absence of any recommendation from flooring manufacturer, provide a product with the following characteristics:
2. Patching Compound/Subfloor Filler:
   a. Self-drying cementitious moisture-, mildew-, and alkali-resistant compound, capable of being feathered to nothing at edges.
   b. Compressive Strength: 3000 psi, (210.92 kg/cm2), after 28 days, when tested in accordance with ASTM C109/C109M or ASTM C472, whichever is appropriate.
   c. Thickness: Up to 1/2 inch (12.7 mm).
   d. VOC: 0 g/L.
   e. Products:
      1) ARDEX Engineered Cements; ARDEX Feather Finish: www.ardexamericas.com.
      2) Equivalent products by other manufacturers are acceptable.
3. Crack and Joint Treatment:
   a. Dormant Cracks and Sawcuts: Two part, low viscosity, rigid polyurethane.
      1) Tensile Strength: 4,150 psi (28.6 N/sq.mm), minimum, after 28 days, when tested in accordance with ASTM 638.
      2) Elongation: 6% when tested in accordance with ASTM 638.
      3) Die C Tear: 243 pli (425.5 N/cm) when tested in accordance with ASTM 624.
      4) VOC: 0 g/L.
      5) Thickness: No limits.
      6) Products:
         (a) ARDEX Engineered Cements; ARDEX Ardifix: www.ardexamericas.com.
         (b) Equivalent products by other manufacturers are acceptable.
   b. Moving Joints and Cracks: Two part, self leveling, semi-rigid polyurea fast setting joint sealant.
      1) Tensile Strength: Approx. 1,200 psi (0.08 N/sq. m), when tested in accordance with ASTM D412.
      2) Elongation: 82% when tested in accordance with ASTM D412.
      3) Bond Strength: 400 psi (2.76 N/sq. m), when tested in accordance with ASTM C882.
      4) VOC: 8 g/L.
      5) Thickness: 1/4 to 2 inches (6.35 to 50.8 mm).
      6) Products:
         (a) ARDEX Engineered Cements; ARDEX Ardiseal Rapid Plus: www.ardexamericas.com.
         (b) Equivalent products by other manufacturers are acceptable.
4. Substrate Prep: Rapid drying moisture resistant patch of portland and other hydraulic cements, trowel grade underlayment.
   a. Moisture Tolerance: 100% RH.
   b. VOC: 0 g/L.
   c. Products:
      1) ARDEX Engineered Cements; ARDEX MRF: www.ardexamericas.com.
      2) Equivalent products by other manufacturers are acceptable.
5. Self Leveling Topping/Underlayment: Polymer blended portland cement based, self leveling topping.
   a. Primer as recommended by manufacturer.

b. Compressive Strength: 5000 psi (351.53kg/cm2) after 28 days, when tested in accordance with ASTM C109/C109M.
c. Flexural Strength: 1,200 psi (84 kg/cm2) at 28 days, when tested in accordance with ASTM C348.
d. VOC: 0 g/L.
e. Thickness: 1/8 to 1-1/2 inch (3.175-38.1 mm).
f. Products:
1) ARDEX Engineered Cements; ARDEX K15: www.ardexamericas.com.
2) Equivalent products by other manufacturers are acceptable.

B. Epoxy Moisture Mitigation System: 100% solids, single coating/overlay combination intended by its manufacturer to resist water vapor transmission to degree sufficient to meet flooring manufacturer's emission limits, resistant to the level of alkalinity (pH) found, and suitable for adhesion of flooring without further treatment.
1. Epoxy Moisture Control System:
a. Permeability: <0.10 perms, when tested in accordance with ASTM E96.
b. RH Readings: Up to 100%.
c. 14 pH solution: No effect, when tested in accordance with ASTM D1308.
d. VOC: 19.9 g/L, A+B, when tested in accordance with ASTM D2369.
e. Thickness: As required for application and in accordance with manufacturer's installation instructions.
f. Crack Repair: Products as recommended by manufacturer.
g. Products:
1) ARDEX Engineered Cements; ARDEX MC RAPID: www.ardexamericas.com.
2) HPS North America/Schonox; EPA Rapid: www.hpsubfloors.com
2. Hydraulic Cement-based self leveling topping:
a. Primer as recommended by manufacturer.
b. Compressive Strength: 5000 psi, minimum, after 28 days, when tested in accordance with ASTM C109/C109M.
c. Flexural Strength: 1,200 psi (84 kg/cm2) at 28 days, when tested in accordance with ASTM C348.
d. VOC: 0 g/L.
e. Thickness: As required for application and in accordance with manufacturer's installation instructions.
f. Products:
1) ARDEX Engineered Cements; ARDEX K15: www.ardexamericas.com.
2) HPS North America/Schonox; SCHONOX ZM: www.hpsubfloors.com

PART 3 EXECUTION

3.01 CONCRETE SLAB PREPARATION

A. Perform following operations in the order indicated:
1. Existing concrete slabs (on-grade and elevated) with existing floor coverings:
a. Visual observation of existing floor covering, for adhesion, water damage, alkaline deposits, and other defects.
b. Removal of existing floor covering, unless noted for removal by Owner's Abatement Contractor.
2. Preliminary cleaning.
3. Moisture vapor emission tests; 3 tests in the first 1000 square feet (100 square meters) and one test in each additional 1000 square feet (100 square meters), unless otherwise indicated or required by flooring manufacturer.
4. Internal relative humidity tests; where required by flooring or adhesive manufacturer, in same locations as moisture vapor emission tests, unless otherwise indicated.
5. Alkalinity (pH) tests; in same locations as moisture vapor emission tests, unless otherwise indicated or required by flooring or adhesive manufacturer.

6. Patching, smoothing, and leveling, as required.
    a. On remodeling projects, assume 20% of area will require filling, patching or leveling.

3.02 REMOVAL OF EXISTING FLOOR COVERINGS

A. Comply with local, State, and federal regulations and recommendations of RFCI (RWP), as applicable to floor covering being removed.

B. Dispose of removed materials in accordance with local, State, and federal regulations and as specified.

3.03 PRELIMINARY CLEANING

A. Clean floors of dust, solvents, paint, wax, oil, grease, asphalt, residual adhesive, adhesive removers, film-forming curing compounds, sealing compounds, alkaline salts, excessive laitance, mold, mildew, and other materials that might prevent adhesive bond.

B. Do not use solvents or other chemicals for cleaning.

3.04 ALKALINITY TESTING

A. Perform pH testing in accordance with ASTM F710 and Section 1.04.

B. Where the floor covering manufacturer's requirements conflict with either the referenced test method or this specification, comply with the manufacturer's requirements.

C. Do not install flooring when test results exceed flooring or adhesive manufacturer's published limitations. Where limits are not published, obtain written acceptance of substrate conditions from flooring and adhesive manufacturers prior to installation.

3.05 PREPARATION

A. See individual floor covering section(s) for additional requirements.

B. Comply with requirements and recommendations of floor covering manufacturer.

C. Fill and smooth surface cracks, grooves, depressions, control joints and other non-moving joints, and other irregularities with patching compound.
    1. Prepare substrates to comply with floor flatness requirements of Section above and the applicable flooring manufacturer's written requirements.

D. Do not fill or bridge building expansion joints, isolation joints, or other designed movement joints. Maintain joints through flooring installation and provide treatment indicated on Drawings or recommended by flooring manufacturer.

3.06 ADHESIVE BOND AND COMPATIBILITY TESTING

A. Comply with requirements of Section 1.04, Concrete Moisture and pH Testing.

3.07 APPLICATION OF EPOXY MOISTURE MITIGATION SYSTEM.

A. Comply with requirements and recommendations of coating manufacturer.

END OF SECTION 09 05 61

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SECTION 10 21 23
CUBICLE CURTAINS AND TRACK

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface mounted overhead curtain track and guides.
B. Cubicle curtains.
C. ***Flexible clear vinyl curtain panels.***

1.02 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide data for curtain fabric characteristics, ***flexible vinyl curtain panels,*** and track, hanger and carriers.
C. Shop Drawings: Indicate a reflected ceiling plan view of curtain track, hangers and suspension points, attachment details, schedule of curtain sizes.
D. Samples: Submit two fabric samples, 12 by 12 inch (300 by 300 mm) in size illustrating fabric color.
E. ***Samples: Submit two samples of flexible vinyl curtain material, minimum 6 by 6 inches, illustrating material thickness, clarity, and finish.***

1.03 DELIVERY, STORAGE, AND HANDLING

A. Accept curtain materials on site and inspect for damage.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Cubicle Track:
   1. Construction Specialties, Inc; Track Systems: www.c-sgroup.com.
   2. Inpro Corporation
   3. Imperial Privacy Systems
   4. Equivalent products by other manufacturer's are acceptable.
B. Curtains:
   1. Momentum Textiles: www.memosamples.com.
   2. Architex
   3. Carnegie Fabrics
   4. ***ArcCOM***
C. ***Flexible Vinyl Curtains:***
   1. ***Manufacturers offering products complying with the requirements of this Section.***
   2. ***Equivalent products by other manufacturers are acceptable.***

2.02 TRACKS AND TRACK COMPONENTS

A. Tracks: Extruded aluminum sections; one piece per track run.
   1. Profile: Channel.
   2. Mounting: Surface
   3. Structural Performance: Capable of supporting vertical test load of 50 lbs (23 kg) without visible deflection of track or damage to supports, safely supporting moving loads, and sufficiently rigid to resist visible deflection and without permanent set.
   4. Track End Stop: To fit track section.
   5. Track Bends: Minimum 12 inch (300 mm) radius; fabricated without deformation of track section or impeding movement of carriers.
   6. Suspension Rods: Tubular aluminum sections, sized to support design loads and designed to receive attachment from track and ceiling support.
      a. Escutcheons: Where suspension rod meets finished ceiling or structure, provide escutcheons to match rod finish.
   7. Finish on Exposed Surfaces: Clear anodized.
B. Curtain Carriers: Nylon rollers, size and type compatible with track; designed to eliminate bind when curtain is pulled; fitted to curtain to prevent accidental curtain removal.

C. Wand: Aluminum, attached to lead carrier, for pull-to-close action.
D. Installation Accessories: Types required for specified mounting method and substrate conditions.

2.03 CURTAINS

A. Cubicle Curtains:
1. Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84.
2. Inherently flame resistant or flameproofed; capable of passing NFPA 701 test.
3. Material: Close weave polyester; anti-bacterial, self deodorizing, sanitized, and preshrunk.
4. Color/Pattern: Architect's selection from manufacturer's full range of healthcare privacy curtain fabrics complying with this section. .
5. Open Mesh Cloth: Open weave to permit air circulation; flameproof material, manufacturer's standard color.
6. Attachment of Curtain Fabric to Open Mesh Cloth: Manufacturer's standard sewn seam.

B. Curtain Fabrication:
1. Width of curtain to be 10 percent wider than track length.
2. Length of curtain to end 12 inches (305 mm) above finished floor.
3. Include open mesh cloth at top 20 inches (508 mm) of curtain for room air circulation, attached to curtain as specified above.
4. Curtain Heading: Fabric band matching curtain panel with metal grommet holes for carriers spaced 6 inches (150 mm) on center.
5. Seams and Hems: Manufacturer's standard fabrication method for securely sewn and finished seams and hems.

2.04 *FLEXIBLE VINYL CURTAINS*

A. ***Clear Vinyl Curtain Panels:***
1. ***Material: Flexible, transparent, fire-retardant polyvinyl chloride (PVC) sheeting, minimum 12 mil thickness.***
2. ***Color: Clear, transparent.***
3. ***Flame Resistance: Comply with NFPA 701.***
4. ***Surface: Smooth, nonporous, water-resistant, and capable of cleaning with commonly used healthcare disinfectants.***
5. ***Fabrication: Provide reinforced edges and hems with corrosion-resistant metal grommets at 6 inches on center, compatible with specified curtain carriers.***
6. ***Width: Provide sufficient fullness for proper operation and complete coverage of indicated openings.***
7. ***Length: As indicated on Drawings.***
8. ***Open Mesh: Not required for vinyl curtain panels.***
9. ***Provide removable panels for cleaning and replacement.***

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces and supports above ceiling are ready to receive work of this Section.
B. Verify that field measurements are as indicated on shop drawings.

3.02 INSTALLATION

A. Install curtain track to be secure, rigid, and true to ceiling line.
B. Secure track to ceiling system.
C. Install end cap and stop device.
D. Install curtains on carriers ensuring smooth operation.

END OF SECTION 10 21 23

SECTION 11 53 13
LABORATORY FUME HOODS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Benchtop laboratory fume hoods.
B. Exhaust blowers.
C. Work surfaces.
D. Airflow indicators and alarms.
E. Wiring within fume hoods for light fixtures, receptacles, and controls.

1.02 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide fume hood exterior and interior dimensions and construction, utility and service requirements and locations.
C. Shop Drawings: Indicate locations, large scale plans, elevations, cross sections, rough-in and anchor placement dimensions and tolerances, clearances required, locations and types of service fittings, and electrical devices, controls, exhaust connection, and accessories.
D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements. Provide documentation of successful Factory Acceptance Testing.
E. Test Reports: Indicate that each type of fume hood has been factory-tested and meets specified ASHRAE Std 110 (AM) requirements.
F. Operation Data: Include description of equipment operation and required adjusting and testing.
G. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
H. Project Record Documents: Record actual locations of concealed utility connections.

1.03 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
B. Installer Qualifications: Company specializing in performing work of the type specified and with minimum three years of documented experience.
C. Preconstruction Testing: Factory-test each type of hood as per referenced standard.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Protect finished surfaces during handling and installation with protective covering of polyethylene film or another suitable material.

1.05 FIELD CONDITIONS

A. Ambient Conditions: Maintain temperature and relative humidity at occupancy levels during and after installation of fume hoods.

1.06 WARRANTY

A. See Section 01 77 00 - Contract Closeout, for additional warranty requirements.
B. Correct defective Work within a five year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Metal Laboratory Fume Hoods:
    1. Basis of Design: Labconco Corporation; 4-Foot Protector Premier Laboratory Hood, Catalog No. 100400000.
    2. Equivalent systems by other manufacturers are acceptable.

2.02 PERFORMANCE REQUIREMENTS

A. Fume hoods complying with the following when tested in accordance with ASHRAE Std 110:
    1. Design Face Velocity: As indicated in Division 23; fume hood shall be capable of safe operation at face velocities as low as 60 fpm.
    2. Provide uniform airflow across hood face opening at design operating sash position.

2.03 FUME HOODS

A. General Requirements:
   1. Comply with SEFA 1.
      a. Provide fume hoods UL listed and labeled for compliance with UL 1805.
   2. Pre-wire fume hoods for light fixtures and receptacles.
      a. Terminate all wiring in a junction box on top of hood.

B. Laboratory Fume Hood:
   1. Basis of Design: Labconco Corporation; Protector Premier Laboratory Hood, Catalog No. 100400000.
   2. Nominal Width: 48 inches.
   3. Configuration: Benchtop, mounted on base cabinets indicated on Drawings.
   4. Overall Hood Dimensions: Approximately 48 inches wide by 31.7 inches deep by 59 inches high.
   5. Exhaust Configuration: Remote blower.
   6. Airflow Design: Bypass.

C. Sash:
   1. Type: Vertical-rising.
   2. Glazing: Tempered safety glass.
   3. Provide manufacturer's standard counterbalance and sash operating mechanism.
   4. Provide manufacturer's standard powder-coated sash handle.
   5. Provide Clean-Sweep airflow openings or equivalent integral airflow features.

D. Exterior
   1. Exterior: Powder-coated steel.
   2. Finish: Corrosion-resistant powder-coated finish.
   3. Color: Glacier White.

E. Interior Lining
   1. Interior Liner: One-piece molded fiberglass-reinforced polyester liner, specially formulated for chemical and corrosion resistance.
   2. Provide seamless molded construction with integral interior surfaces.
   3. Flame spread: Less than 25 when tested in accordance with ASTM E84.
   4. Provide manufacturer's preset rear baffle system.

F. Electrical Receptacle: Provide one factory-installed and prewired 120-volt GFCI duplex receptacle at lower front of hood. Coordinate circuit requirements with Division 26.

G. Access Panels: Provide removable front and side panels and front service access panels for access to electrical wiring and internal components.

H. Work Surface:
   1. Basis of Design: Labconco SpillStopper Work Surface.
   2. Epoxy-resin laboratory work surface compatible with specified hood.
   3. Provide manufacturer's standard raised perimeter to contain spills.
   4. No sink or sink cutout.
   5. Width: 48 inches, coordinated with hood and base cabinets.

I. Fume Hood Base Cabinets: Base cabinets are specified in Section 12 32 00 - Casework and indicated on Drawings. Coordinate fume hood and work surface with base cabinets.

J. Light Fixtures: Factory-installed and prewired vapor-proof LED lighting. Provide manufacturer's standard LED lighting system with ADA-compliant light switch. Lighting system rated for minimum 50,000 hours.

2.04 FABRICATION

A. General: Assemble fume hoods in factory to greatest extent possible. Disassemble fume hoods only as necessary for shipping and handling limitations, or as necessary to permit movement through a 35 inches by 79 inches (889 mm by 2007 mm) clear door opening.

B. Steel Exterior: Manufacturer's standard powder-coated steel construction for specified hood. Finish exposed surfaces with corrosion-resistant powder coating.

C. End Panels: Manufacturer's standard removable end panels providing access to internal components and wiring.

D. Lining Assembly: One-piece molded fiberglass-reinforced polyester liner, manufacturer's standard construction.
E. Molded Fiberglass-Reinforced Polyester Liner: One-piece molded assembly consisting of interior sides, back, top, and manufacturer's preset baffle system.
F. Rear Baffle: Manufacturer's preset baffle system designed to provide uniform airflow and removable or accessible as required for cleaning and maintenance.
G. Exhaust Connection: Manufacturer's standard exhaust connection sized for selected hood and coordinated with Division 23.
    1. 12.8-inch ID, manufacturer's standard.
H. Bypass Grilles: At bypass openings of fume hoods.
I. Airfoil: Manufacturer's Eco-Foil aerodynamic airfoil with Clean-Sweep openings designed to direct airflow across work surface and promote uniform, non-turbulent airflow into hood.
J. Filler Strips: As needed to close spaces between fume hoods and/or fume hood base cabinets and adjacent building construction. Fabricated from same material and with same finish as fume hoods or fume hood base cabinets, as applicable. Flange, notch, and reinforce filler strips. Fabricate to form well-fitting closures, free from oil-canning.
K. Ceiling Extensions: Filler panels matching fume hood exterior to enclose space above fume hoods at front and sides of fume hoods, and extending from tops of fume hoods to approximately 4 inches (102 mm) above ceiling. Flange, notch, and reinforce ceiling extensions as required for rigidity. Fabricate to form well-fitting closures, free from oil-canning.
    1. Provide bottom-hinged access panels within the front ceiling extension filler panel to facilitate access to light fixture and other fume hood components at top of hood not readily accessible by other means.
L. Finished Back Panels: Where rear surfaces of fume hoods are exposed to view, provide finished back panels matching rest of fume hood enclosure.
M. Comply with requirements of other sections for factory installation of water and laboratory gas service fittings, piping, electrical devices, and wiring. Securely anchor fittings, piping, and conduit to fume hoods, unless otherwise indicated.

2.05 MATERIALS

A. Steel Sheet: Cold-rolled, commercial steel (CS) sheet, complying with ASTM A1008/A1008M; matte finish; suitable for exposed applications.
B. Glass-Fiber-Reinforced Polyester: Polyester laminate with a chemical-resistant gel coat on exposed faces, and having a flame-spread index of 25 or less according to ASTM E84.
C. Epoxy: Factory molded, modified epoxy-resin formulation with non-asbestos inert filler with smooth, nonspecular finish.
    1. Physical Properties:
        a. Flexural Strength: Not less than 10,000 pounds per square inch (70 MPa).
        b. Modulus of Elasticity: Not less than 2,000,000 pounds per square inch (1,400 MPa).
        c. Hardness (Rockwell M): Not less than 100.
        d. Water Absorption (24 Hours): Not more than 0.02 percent.
        e. Heat Distortion Point: Not less than 260 degrees F (127 degrees C).
        f. Flame-Spread Index: 25 or less according to ASTM E84.
    2. Chemical Resistance: As follows when tested with indicated reagents according to NEMA LD 3, Test Procedure 3.4.5:
        a. No Effect:
            1) Acetic acid (98 percent).
            2) Ammonium hydroxide (28 percent).
            3) Carbon tetrachloride.
            4) Chromic acid (60 percent).
            5) Dimethyl formamide.
            6) Ethyl ether.
            7) Methyl Ethyl Ketone.

8) Phenol. (90 percent)

b. Slight Effect:

1) Acetone.

2) Benzene.

3) Nitric acid (70 percent).

4) Sulfuric acid (25 percent).

5) Toluene.

3. Color: Black.

D. Tempered Safety Glass: Manufacturer's standard safety glazing for vertical-rising sash.

E. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

F. Fasteners: Stainless-steel, where exposed to fumes.

2.06 ACCESSORIES

A. Airflow Monitors/Indicators and Alarms: Provide each fume hood with a airflow monitor/indicator complete with an audible and visual alarm that activates when airflow sensor reading is outside of preset range.

1. Source: Fume hood manufacturer.

2. Basis of Design: Labconco Guardian Airflow Monitor Kit compatible with specified hood.

3. Provide visual indication of hood operating status and audible and visual alarm upon inadequate airflow.

4. Factory- or field-installed in accordance with manufacturer's requirements.

B. Sash Stop: Provide manufacturer's sash stop kit limiting normal operating sash height. Stop shall be manually releasable to permit full sash opening for setup, maintenance, and cleaning.

C. Bypass Grille Blank-off Panel: On bypass grille, designed for use with sash stops to reduce exhaust air volume and provide design face velocity with sash at 50 percent open position.

2.07 SOURCE QUALITY CONTROL

A. Factory testing of each type of fume hood.

PART 3 EXECUTION

3.01 EXAMINATION

A. Locate concealed framing, blocking, and reinforcements that support fume hoods by field measurements before being enclosed, and indicate measurements on Shop Drawings.

B. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of fume hoods.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. General: Install fume hoods according to manufacturer's written instructions. Install level, plumb, and true; shim as required, using concealed shims, and securely anchor to building and adjacent laboratory casework. Securely attach access panels but provide for easy removal and secure reattachment. Where fume hoods abut other finished work, apply filler strips and scribe for accurate fit, with fasteners concealed where practical.

B. Comply with indicated requirements for installing water and laboratory gas service fittings, and electrical and telecommunications devices.

3.03 FIELD QUALITY CONTROL

A. Field test fume hoods as specified below.

1. General: Test fume hoods as installed to assess airflow velocity. Perform tests with static mode (set sash position) conditions. Conduct testing as outlined below for 100% of the hoods provided in the Project.

2. Preparation:

a. Do not proceed with fume hood testing until an acceptable TAB report has been received.

b. Verify that proper temperature and pressurization of the lab space can be maintained, with door(s) to the space in closed and open positions.

c. Adjust non-complying physical and control systems until conditions favorable to testing fume hoods are present.

3. Operating Conditions Tests:
   a. Conduct face velocity tests to confirm that target velocities are being achieved within acceptable tolerances.
   b. Conduct exhaust flow and static pressure tests of the HVAC system and its controls to confirm flow volume and static pressures are within acceptable tolerances.
   c. Conduct tests of alarm device by shutting off the fume hood exhaust and verify that the individual fume hood alarm activates and operates in specified manner.
   d. Conduct tests of individual controls provided at the fume hood (such as unoccupied cycle override, alarm override, etc.) to verify they operate in specified manner.

3.04 ADJUSTING

A. Adjust moving parts for smooth, near silent, accurate sash operation with one hand only. Adjust sashes for uniform contact of rubber bumpers. Verify that counterbalances operate without interference.

3.05 CLEANING

A. Clean finished surfaces, including both sides of glass; touch up as required; and remove or refinish damaged or soiled areas to match original factory finish, as approved by Architect.

3.06 DEMONSTRATION

A. Demonstrate proper operation of fume hoods and their accessories to Owner's designated representative.

END OF SECTION 11 53 13

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SECTION 14 24 00
HYDRAULIC ELEVATORS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Complete machineless room hydraulic elevator systems.

B. Service elevator with 5,000-pound rated capacity, AIA car configuration, non-seismic construction and a single front entrance.

C. C. Include hoistway equipment, hydraulic power unit, controller, car enclosure, entrances, operating controls, signal fixtures and equipment-access provisions.

1.02 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

1. Coordinate work with other installers to provide conduits necessary for installation of wiring including but not limited to:
    a. Elevator equipment devices remote from elevator machine room or hoistway.
    b. Elevator pit for sump pump.
    c. Automatic transfer switch from controller cabinet.
    d. Fire alarm panel from controller cabinet.
2. Coordinate work with other installers for equipment provisions necessary for proper elevator operation, including but not limited to, the following:
    a. Shunt trip devices for automatic disconnection of elevator power prior to fire suppression system activation.

B. Preinstallation Meeting: Convene meeting at least one week prior to start of construction of the pit and shaft.

1. Review schedule of installation, proper procedures and conditions, and coordination with related work.

C. Construction Use of Elevator: Not permitted.

D. Coordinate with card reader, wiring, controller interface and programming in Division 28.

E. Coordinate the equipment-access door, clear working space, pit lighting and receptacles, ventilation, hoisting beam and structural rail supports with Otis's approved layout.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Submit data on following items:

1. Signal and operating fixtures, operating panels, and indicators.
2. Car design, dimensions, layout, and components.
3. Car and hoistway door and frame details.
4. Electrical characteristics and connection requirements.
5. Include the actual car-operating panel showing the card-reader location and all available architectural finishes.

C. Shop Drawings: Include appropriate plans, elevations, sections, diagrams, and details on following items:

1. Elevator Equipment and Machines: Size and location of driving machines, power units, controllers, governors, and other components.
2. Hoistway Components: Size and location of car guide rails, buffers, jack unit and other components.
3. Rail bracket spacing; maximum loads imposed on guide rails requiring load transfer to building structural framing.
4. Loads on hoisting beams.
5. Clearances and over-travel of car.
6. Locations in hoistway of traveling cables and connections for car lighting and telephone.
7. Location and sizes of hoistway and car doors and frames.
8. Calculated heat dissipation of elevator equipment located int eh hoistway.
9. Electrical characteristics and connection requirements.
10. Indicate arrangement of elevator equipment and allow for clear passage of equipment through access openings.

11. Final layout to identify the hydraulic equipment, controller, access door, all structural reactions, power requirements, pit and overhead clearances, and the electrical and access-control interfaces.

D. Samples: Submit samples illustrating car interior finishes, car and hoistway door and frame finishes, and handrail material and finish in the form of cut sheets or finish color selection brochures.

E. Installer's Qualification Statement.

F. Testing Agency's Qualification Statement.

G. Operation and Maintenance Data:

1. Parts catalog with complete list of equipment replacement parts; identify each entry with equipment description and identifying code.
2. Operation and maintenance manual.
3. Schematic drawings of equipment and hydraulic piping, and wiring diagrams of installed electrical equipment with list of corresponding symbols to identify markings on hoistway apparatus.
4. Diagnostic Tools
   a. Prior to seeking final acceptance for the completed project as specified by the Contract Documents, the Elevator Contractor shall deliver to the Owner any specialized tool(s) that may be required to perform diagnostic evaluations, adjustments, and/or parametric software changes and/or test and inspections on any piece of control or monitoring equipment installed.
   b. This shall include any specialized tool(s) required for monitoring, inspection and/or maintenance where the means of suspension other than conventional wire ropes are furnished and installed by the Elevator Contractor.
   c. Any and all such tool(s) shall become property of the Owner. Any diagnostic tool provided to the Owner by the Elevator Contractor shall be configured to perform all levels of diagnostics, systems adjustment and parametric software changes which are available to the Elevator Contractor.
   d. In those cases where diagnostic tools provided to the Owner require periodic recalibration/or re-initiation, the Elevator Contractor shall perform such tasks at no additional cost to the Owner for a period equal to the term of the maintenance agreement from the date of final acceptance of the competed project During those intervals in which the Owner might find it necessary to surrender a diagnostic tool for re-calibration, re-initiation, or repair, the Elevator Contractor shall provide a temporary replacement for the tool at no additional cost to the Owner.
   e. The Elevator Contractor shall deliver to the Owner, printed instructions for the proper use of any tool that may be necessary to perform diagnostic evaluations, system adjustment, and/or parametric software changes on any unit of microprocessor-based elevator control equipment and means of suspension other than standard elevator steel cables furnished and install by the Elevator Contractor. Accompanying the printed instructions shall be any and all access codes, password, or other proprietary information that is necessary to interface with the microprocessor-control equipment.
   f. Accompanying the printed instructions shall be any and all access codes, password, or other proprietary information that is necessary to interface with the microprocessor-control equipment.

1.04 QUALITY ASSURANCE

A. Maintain one copy of each quality standard document on site.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum ten years documented experience.

C. Installer Qualifications: Company specializing in performing the work of this section and approved by elevator equipment manufacturer.

D. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of type specified in this section.

E. Comply with Indiana Elevator Safety code, 675 IAC 21, and applicable amendments.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Machine-less and Holeless Elevators

1. Otis Elevator Company; Hydrofit: www.otis.com.
2. TK Elevator; Endura MRL: www.tkelevator.com.

2.02 HYDRAULIC MACHINE-LESS ROOM ELEVATORS

A. Hydraulic Machineroom-less Service Elevator, Front Access 5000 LB AIA:
   1. Hydraulic Elevator Equipment:
      a. Holeless hydraulic with cylinder mounted within hoistway.
   2. Drive System: Standard HydroFit hydraulic drive and control system.
   3. Operation Control Type:
      a. Single Automatic (Push Button) Operation Control.
   4. Service Control Type:
      a. Standard service control.
   5. Minimum Interior Car Height: 88 inch (2235.2 mm).
   6. Power characteristics: As indicated on electrical drawings and confirmed by Otis; three-phase, 60 Hz.
   7. Rated Net Capacity: 5000 pounds (2041.2 kgs).
   8. Rated Speed: 125 feet per minute (38.1 m per second).
   9. Hoistway size: As indicated on drawings; Otis published non-seismic minimum for the 5,000-pound AIA front-opening car is 7'-11" W × 10'-8" D."
   10. Interior Car Platform Size: Nominal Clear Interior Car Dimensions: 5'-6 13/16" W × 8'-11 3/8" D; coordinate final dimensions with approved Otis drawings and selected finishes.
   11. Door size: 4'-0" x 7'-0" (1066.8 mm x 1371.6 mm) two-speed side-opening doors, or as indicated on approved drawings.
   12. Pit depth: As indicated on drawings and approved Otis layout. Published minimum is 4'-0"; 5'-0" where required by travel or jurisdiction.
   13. Minimum Clear Overhead to Hoisting Beam: As indicated on drawings and in the approved Otis layout. For preliminary coordination, a 125 fpm, two-stage system with a 7'-9" cab requires 12'-10" of clear overhead to the hoisting beam. If a 9'-9" cab is selected, the corresponding published dimension is 14'-10". Final requirements shall be based on the selected hydraulic stage arrangement, cab height and travel.
   14. Travel Distance: As indicated on drawings.
   15. Number of Stops: As indicated on drawings.

2.03 COMPONENTS

A. Elevator Equipment:
   1. Motors, Hydraulic Equipment, Controllers, Controls, Buttons, Wiring, Devices, and Indicators: Comply with NFPA 70; see Section 26 05 83.
   2. Guide Rails, Cables, Buffers, Attachment Brackets and Anchors: Design criteria for components includes safety factors in accordance with applicable requirements of Elevator Code, ASME A17.1.
   3. Buffers:
      a. Spring type for elevators with speed less than or equal to 200 fpm (1 m/sec).
   4. Lubrication Equipment:
      a. Provide grease fittings for periodic lubrication of bearings.
      b. Grease Cups: Automatic feed type.
      c. Lubrication Points: Visible and easily accessible.

B. Electrical Equipment:
   1. Motors: NEMA MG 1.
   2. Boxes, Conduit, Wiring, and Devices: As required by NFPA 70; see Sections 26 05 33.13 and 26 05 83.
   3. Spare Conductors: Provide ten percent in extra conductors and two pairs of shielded audio cables in traveling cables.

4. Include wiring and connections to elevator devices remote from hoistway and between elevator machine room. Provide additional components and wiring to suit machine room layout. See Section 26 05 83.

C. Miscellaneous Equipment:
   1. Provide pit ladder.

2.04 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with ASME A17.1, applicable local codes, and authorities having jurisdiction (AHJ).
B. Accessibility Requirements: Comply with ADA Standards and applicable local codes.
C. Perform structural steel design, fabrication, and installation in accordance with AISC 360.
D. Comply with seismic design requirements in accordance with ASME A17.1, applicable local codes, and authorities having jurisdiction (AHJ).
   1. Complying with Elevator Safety Requirements for Seismic Risk Zone in accordance with ASME A17.1, ASCE 7 and other related requirements.
   2. Provide earthquake emergency operations in accordance with ASME A17.1 requirements.
E. Perform welding of steel in accordance with AWS D1.1/D1.1M.
F. Fabricate and install door and frame assemblies in accordance with NFPA 80 and in compliance with requirements of authorities having jurisdiction.
G. Perform electrical work in accordance with NFPA 70.

2.05 OPERATION CONTROLS

A. Elevator Controls: Provide landing operating panels and landing indicator panels.
   1. Landing Operating Panels: Metallic type, one for originating "Up" and one for originating "Down" calls, one button only at terminating landings; with illuminating indicators.
   2. Landing Indicator Panels: Illuminating.
   3. Comply with ADA Standards and applicable local codes for elevator controls.
B. Interconnect elevator control system with building security, fire alarm, card access, smoke alarm, and building management control systems.
C. Door Operation Controls:
   1. Program door control to open doors automatically when car arrives at floor landing.
   2. Render "Door Close" button inoperative when car is standing at dispatch landing with doors open.
   3. Door Safety Devices: Moveable, retractable safety edges, quiet in operation; equipped with photo-electric light rays.
D. Provide "Firefighter's Emergency Operation" in accordance with ASME A17.1, applicable building codes, authorities having jurisdiction (AHJ), and applicable local codes.
   1. Designated Landing: Main Lobby.

2.06 OPERATION CONTROL TYPE

A. Single Automatic (Push Button) Operation Control: Applies to car in single elevator shaft.
   1. Refer to description provided in ASME A17.1.
   2. Set system operation so that momentary pressure of landing button dispatches car from other landing to that landing.
   3. Allow call registered by momentary pressure of landing button at any time to remain registered until car stops in response to that landing call.
   4. If elevator car door is not opened within predetermined period of time after car has stopped at terminal landing allow car to respond to call registered from other landing.

2.07 SERVICE CONTROL TYPE

A. Restricted Access Service Control:
   1. Program down traveling cars to stop at main floor landing prior to proceeding to a designated lower dispatch landing.
   2. Program up traveling cars to stop at main floor landing prior to proceeding to a designated higher dispatch landing.

3. Do not stop a down traveling car with a registered car button call for landing below the lower dispatch landing, unless the call in that car or a down button call at lower dispatch landing is in registration.
4. Answer a landing button call registered at a landing below the primary dispatch landing by either an approaching down traveling car or an unselected car at the primary dispatch landing.
5. If, within a predetermined period of time after a car responds to a down landing call at the primary dispatch landing, no call is registered in that car for down travel, or at a landing below, close the doors, turn-off the landing lantern, and dispatch an available car.
6. Do not stop a car at the primary dispatch landing when traveling up from a landing below the primary dispatch landing, with one or more car button calls in registration for service above a lower dispatch landing, unless a call for that landing is registered in that car or no other car is available at a lower dispatch landing.
7. Reverse cars automatically to the lowest registered car call or to an up landing call when responding to calls below the lowest dispatch landing.
8. Keyed Lobby Lock-out: Provide a magnetic card in the lobby call button panel that performs the following when activated:
9. Cancels registered car calls.
10. When activated, no new car calls will be registered, except at landing where lock-out feature is located.
11. Restricts car calls registered to specific floors only, except the main access floor and those floors enabled by lock-out switches.
12. Landing calls are answered in normal manner.
13. Keyed Lobby Lock-out: Provide a key operated switch in the lobby call button panel that performs the following when activated:
    a. Cancels registered car calls.
    b. When activated, no new car calls will be registered, except at landing where lock-out feature is located.
    c. Restricts car calls registered to specific floors only, except the main access floor and those floors enabled by lock-out switches.
    d. Landing calls are answered in normal manner.
14. Car Call Security Lock-out: Provide a security card activated switch in car operating panel that performs the following when activated:
    a. Restricts or permits registration of each landing button.
    b. Landing calls are answered in normal manner.
15. Landing Call Lock-out: Provide a key operated switch with key removable from "On" or "Off" position in landing control station that performs the following when activated:
    a. Restricts or permits landing call registration for that landing.
    b. Causes the elevator to not respond to that landing.
16. Allow "Firefighter's Emergency Operation" to take control priority over "Restricted Access Service Control".

2.08 MATERIALS

A. Rolled Steel Sections, Shapes, Rods: ASTM A36/A36M.
B. Steel Sheet: ASTM A1008/A1008M, Designation CS (commercial steel), with matte finish.
C. Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G90/Z275 coating.
D. Stainless Steel Sheet: ASTM A666/A666M, Type 304; No. 4 Brushed finish unless otherwise indicated.
E. Stainless Steel Bars, Shapes and Moldings: ASTM A276/A276M, Type 304.
F. Extruded Brass Shapes: ASTM B455/B455M, Copper Alloy UNS C38500, Architectural Bronze, 57 percent copper, polished finish.
G. Seamless Brass Tubes: ASTM B135/B135M, Copper Alloy UNS C22000, Commercial Bronze, 90 percent copper, polished finish.
H. Brass Sheet: ASTM B36/B36M, Copper Alloy UNS C38500, Architectural Bronze, 57 percent copper.
I. Extruded Aluminum: ASTM B221 (ASTM B221M), natural anodized finish unless otherwise indicated.

J. Plywood: PS 1, Structural I, Grade C-D or better, sanded.
K. Solid Wood:
    1. Species: See Interior Material Finish/Color Schedule on the Drawings.
L. Tempered Glass: 3/8 inch (9.5 mm) minimum thickness, fully tempered in compliance with ASME A17.1, 16 CFR 1201, ANSI Z97.1, and ASTM C1048 tempered glass requirements.
M. Plastic Laminate: NEMA LD 3, Type HGS, color as selected by Architect from manufacturer's standard line of colors.
N. Plastic Laminate: NEMA LD 3, Type HGS, Color:
    1. See Interior Material Finish/Color Schedule on the Drawings.

2.09 CAR AND HOISTWAY ENTRANCES

A. Elevator:
    1. Car and Hoistway Entrances, Main Elevator Lobby:
        a. Framed Opening Finish and Material: Alkyd enamel on steel.
        b. Framed Opening Finish and Material: Brushed stainless steel.
        c. Car Door Material: Powder coat on steel, with rigid sandwich panel construction.
        d. Car Door Material: Stainless steel, with rigid sandwich panel construction.
        e. Hoistway Door Material: Powder coat on steel, with rigid sandwich panel construction.
        f. Hoistway Door Material: Stainless steel, with rigid sandwich panel construction.
        g. Door Operation: Side opening, two speed.
        h. Sills: Extruded aluminum.
B. Sills/Thresholds: Configure to align with frame return and coordinate with floor finish.
C. Gasketing: Provide acoustic type gasketing at hoistway doors and frames to eliminate audible noise due to car activities in the hoistway, and air pressure differential between hoistway and landing floors.

2.10 CAR EQUIPMENT AND MATERIALS

A. Elevator Car, Passenger:
    1. Car Operating Panel: Provide main and auxiliary; flush-mounted applied face plate, with illuminated call buttons corresponding to floors served with "Door Open/Door Close" buttons, "Door Open" button, "Door Close" button, and alarm button.
        a. Panel Material: Integral with front return; one per car.
        b. Car Floor Position Indicator: Above door with illuminating position indicators.
        c. Locate alarm button where it is unlikely to be accidentally actuated; not more than 54 inch (1.372 m) above car finished floor.
        d. Provide matching service cabinet integral with front return panel, with hinged door and keyed lock in each car.
        e. Provide convenience outlet receptacle; 110VAC, 15 amps, locate below service cabinet.
    2. Ventilation: Single speed fan with grille in ceiling.
    3. Wall Base: Recessed stainless steel, 4 inch (102 mm) high.
    4. Front Return Panel: Match material of car door.
    5. Wall Panels:
        a. Door Wall: Plastic laminate on plywood.
            1) Brushed Stainless steel.
            2) Baked enamel on steel.
            3) Power coated steel.
            4) Plastic laminate on plywood.
        b. Side Walls:
            1) Brushed Stainless steel.
            2) Baked enamel on steel.
            3) Power coated steel.
            4) Plastic laminate on plywood.
            5) Tempered Glass at Side Wall: Provide glazing full height with hand rail.

c. Rear Wall:
1) Brushed Stainless steel.
2) Baked enamel on steel.
3) Power coated steel.
4) Plastic laminate on plywood.
5) Tempered Glass at Rear Wall: Provide glazing full height with hand rail.

6. Hand or Bumper Rail: Stainless steel, at three side walls at single door cab and two sides at two door cab. Provide open clearance space 1-1/2 inch (38 mm) wide to face of wall.
a. Flat Bar Stock, Solid: 3/8 inch thick by 4 inch high (9.525 mm thick by 101.6 mm high).
1) Stainless Steel Finish: No. 4 Brushed.
b. Round, Metal Tube: 1-1/2 inch (38 mm) diameter.
c. Stainless Steel Finish: No. 4 Brushed.
7. Hand or Bumper Rail: Brass (Architectural bronze), at three side walls at single door cab and two sides at two door cab. Provide open clearance space 1-1/2 inch (38 mm) wide to face of wall.
a. Flat Bar Stock, Solid: 3/8 inch thick by 4 inch high (9.525 mm thick by 101.6 mm high).
1) Brass Finish: Natural lacquered.
b. Round, Metal Tube: 1-1/2 inch (38 mm) diameter.
1) Brass Finish: Natural lacquered.
8. Hand or Bumper Rail: Wood, at three side walls at single door cab and two sides at two door cab. Provide open clearance space 1-1/2 inch (38 mm) wide to face of wall.
a. Round, Wood: 1-1/2 inch (38 mm) diameter.
9. Ceiling:
a. Canopy Ceiling: Plastic eggcrate diffuser.
b. Canopy Ceiling: Plastic laminate on plywood.
c. Canopy Ceiling: Stainless steel.
d. Canopy Ceiling: Translucent plastic panel.
e. Exposed Frame Suspended Ceiling: Plastic eggcrate diffuser, mount 7 inch (178 mm) below car canopy with 1-1/2 inch (38 mm) nominal space between edge of ceiling and wall.
f. Lighting: LED downlights.
10. Provide emergency access panel for egress from car at ceiling.

B. Wall Panels:
1. Door Wall:
a. Brushed Stainless steel.
b. Baked enamel on steel.
c. Power coated steel.
d. Plastic laminate on plywood.
2. Side Walls:
a. Brushed Stainless steel.
b. Baked enamel on steel.
c. Power coated steel.
d. Plastic laminate on plywood.
e. Tempered Glass at Side Wall: Provide glazing full height with hand rail.
3. Rear Wall:
a. Brushed Stainless steel.
b. Baked enamel on steel.
c. Power coated steel.
4. Plastic laminate on plywood.
a. Tempered Glass at Rear Wall: Provide glazing full height with hand rail.

C. Hand or Bumper Rail: Stainless steel, at three side walls at single door cab and two sides at two door cab. Provide open clearance space 1-1/2 inch (38 mm) wide to face of wall.

1. Flat Bar Stock, Solid: 3/8 inch thick by 4 inch high (9.525 mm thick by 101.6 mm high).
    a. Stainless Steel Finish: No. 4 Brushed.
2. Round, Metal Tube: 1-1/2 inch (38 mm) diameter.
    a. Stainless Steel Finish: No. 4 Brushed.

D. Hand or Bumper Rail: Brass (Architectural bronze), at three side walls at single door cab and two sides at two door cab. Provide open clearance space 1-1/2 inch (38 mm) wide to face of wall.
1. Flat Bar Stock, Solid: 3/8 inch thick by 4 inch high (9.525 mm thick by 101.6 mm high).
    a. Brass Finish: Natural lacquered.
2. Round, Metal Tube: 1-1/2 inch (38 mm) diameter.
    a. Brass Finish: Natural lacquered.

E. Hand or Bumper Rail: Wood, at three side walls at single door cab and two sides at two door cab. Provide open clearance space 1-1/2 inch (38 mm) wide to face of wall.
1. Round, Wood: 1-1/2 inch (38 mm) diameter.

F. Ceiling:
1. Canopy Ceiling: Plastic eggcrate diffuser.
2. Canopy Ceiling: Plastic laminate on plywood.
3. Canopy Ceiling: Stainless steel.
4. Canopy Ceiling: Translucent plastic panel.
5. Exposed Frame Suspended Ceiling: Plastic eggcrate diffuser, mount 7 inch (178 mm) below car canopy with 1-1/2 inch (38 mm) nominal space between edge of ceiling and wall.
6. Lighting: LED downlights.

G. Provide emergency access panel for egress from car at ceiling when required by code.

2.11 CAR ACCESSORIES

A. Certificate Frame: Stainless steel frame glazed with tempered glass, and attached with tamper-proof screws.

B. Protective Pads: Canvas cover, padded with impact-resistant fill material, sewn with piping edges; fire resistant in compliance with ASME A17.1; brass grommets for supports, covering side and rear walls and front return, with cut-out for control panel; provide one set for each elevator.
1. Color: Tan.
2. Provide at least 4 inch (102 mm) clearance from bottom of pad to finished floor.
3. Pad Supports: Stainless steel studs, and mounted from ceiling frame.

2.12 MACHINE ROOM FITTINGS

A. Wall-Mounted Frames: Glazed with clear plastic; sized as required. Provide one chart each for master electric and hydraulic schematic and for lubrication chart. Install charts.

B. Key Cabinet: Wall-mounted, lockable, keyed to building keying system, for control and operating panel keys.
1. Provide two key cabinet keys.
2. Provide two control/operating panel keys.
3. Provide two card access keys.

C. Monitoring Device Interface:
1. Fabricate one multiple terminal block in controller relay panel or selector, in location indicated, for connection of monitoring devices for:
    a. Landing and car registration circuits.
    b. Motor generator running circuits.
    c. Load weighing circuits.
    d. Up and down peak programming circuits.
    e. Independent service switches.

2.13 FINISHES

A. Finish for Wood Surfaces: Stain color as selected by Architect and water based polyurethane varnish.

B. Finish for Wood Surfaces: Stain and water based polyurethane varnish.
1. Stain Color: See Interior Material Finish/Color Schedule on the Drawings.

C. Powder Coat on Steel: Clean and degrease metal surface; apply one coat of primer; two coats of powder coat.
D. Baked Enamel on Steel: Clean and degrease metal surface; apply one coat of primer sprayed and baked; two coats of enamel sprayed and baked.
E. Finish Paint for Metal Surfaces: Alkyd enamel, semi-gloss, color as selected, complying with VOC limitations of authorities having jurisdiction (AHJ).

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting this work.
B. Verify that hoistway and pit are ready for work of this section.
C. Verify hoistway shaft and openings are of correct size and within tolerance.
D. Verify location and size of machine foundation and position of machine foundation bolts.
E. Verify that electrical power is available and of correct characteristics.

3.02 INSTALLATION

A. Coordinate this work with installation of hoistway wall construction.
B. Install system components, and connect equipment to building utilities.
C. Provide conduit, electrical boxes, wiring, and accessories; see Sections 26 05 33.13 and 26 05 83.
D. Install hydraulic piping between cylinder and pump unit.
E. Mount machines, motors, and pumps on vibration and acoustic isolators.
    1. Place on structural supports and bearing plates.
    2. Securely fasten to building supports.
    3. Prevent lateral displacement.
F. Install hoistway, elevator equipment, and components in accordance with approved shop drawings.
G. Install guide rails to allow for thermal expansion and contraction movement of guide rails.
H. Accurately machine and align guide rails, forming smooth joints with machined splice plates.
I. Bolt or weld brackets directly to structural steel hoistway framing.
J. Bolt brackets to self drilling expansion shell anchors.
K. Field Welds: Chip and clean away oxidation and residue with wire brush; spot prime surface with two coats.
L. Install hoistway door sills, frames, and headers in hoistway walls; grout sills in place, set hoistway floor entrances in alignment with car openings, and align plumb with hoistway.
M. Fill hoistway door frames solid with grout; see Section 04 20 00.
N. Structural Metal Surfaces: Clean surfaces of rust, oil or grease; wipe clean with solvent; prime two coats.
O. Wood Surfaces not Exposed to Public View: Finish with one coat primer; one coat enamel.
P. Adjust equipment for smooth and quiet operation.

3.03 TOLERANCES

A. Guide Rail Alignment: Plumb and parallel to each other in accordance with ASME A17.1 and ASME A17.2.
B. Car Movement on Aligned Guide Rails: Smooth movement, without any objectionable lateral or oscillating movement or vibration.

3.04 FIELD QUALITY CONTROL

A. Testing and inspection by regulatory agencies certified in accordance with ASME QEI 1 will be performed at their discretion.
    1. Schedule tests with agencies and notify Owner and Architect.
    2. Obtain permits as required to perform tests.
    3. Document regulatory agency tests and inspections in accordance with requirements.
    4. Perform tests required by regulatory agencies.
    5. Furnish test and approval certificates issued by authorities having jurisdiction.

3.05 ADJUSTING

A. Adjust for smooth acceleration and deceleration of car to minimize passenger discomfort.

B. Adjust with automatic floor leveling feature at each floor landing to reach 1/4 inch (6.4 mm) maximum from flush with sill.

3.06 CLEANING

A. Remove protective coverings from finished surfaces.

B. Clean surfaces and components in accordance with manufacturers written instructions.

3.07 CLOSEOUT ACTIVITIES

A. ~~**See Section 01 78 00 - Closeout Submittals for closeout submittals.**~~ ***See Section 01 77 00 Contract Closeout.***

B. See Section 01 79 00 - Demonstration and Training for additional requirements.

C. Demonstrate proper operation of equipment to Owner's designated representative.

D. Training: Train Owner's personnel on cleaning and operation and maintenance of system.

1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
2. Provide minimum of two hours of training.
3. Instructor: Manufacturer's training personnel.

3.08 PROTECTION

A. Do not permit construction traffic within car after cleaning.

B. Protect installed products until Date of Substantial Completion.

C. Touch-up, repair, or replace damaged products and materials prior to Date of Substantial Completion.

3.09 MAINTENANCE

A. Provide Initial Maintenance Contract of elevator system and components in accordance with ASME A17.1 and requirements as indicated for 12 months from Date of Substantial Completion.

B. Perform maintenance contract services using competent and qualified personnel under the supervision and direct employ of the elevator manufacturer or original installer.

C. Include systematic examination, adjustment, and lubrication of elevator equipment.

D. Perform work without removing cars from use during peak traffic periods.

E. Provide emergency call back service for 24 hours a day/7 days a week throughout period of this maintenance contract.

END OF SECTION 14 24 00



GENERAL NOTES

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, STATE AND FEDERAL AGENCIES PRIOR TO STARTING CONSTRUCTION.

B. CONTRACTOR SHALL VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING SEWERS PRIOR TO START OF CONSTRUCTION.

C. CONTRACTOR SHALL MAINTAIN A COMPLETE AND OPERABLE UTILITY SYSTEM AT ALL TIMES.

D. CONTRACTOR SHALL INCLUDE COSTS FOR CUTTING AND PATCHING AS REQUIRED IN THEIR BID PROPOSAL TO COMPLETELY INSTALL THE WORK INDICATED.

E. CONTRACTOR SHALL INCLUDE ALL TAP FEES, PERMIT FEES AND APPLICATION FEES IN THEIR BID PROPOSAL AS NECESSARY TO COMPLETELY INSTALL THE WORK INDICATED.

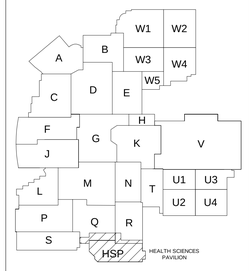
F. INFORMATION SHOWN WAS OBTAINED FROM AN OWNER FURNISHED SITE SURVEY OF EXISTING CONDITIONS AND IS UNCONFIRMED. CONTRACTOR IS REQUIRED TO FIELD VERIFY THIS INFORMATION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES SO MODIFICATION CAN BE MADE.

G. CONTRACTOR SHALL COORDINATE EXACT UTILITY LOCATIONS WITH THE OWNER AND LOCAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK. UTILIZE THE INDIANA UNDERGROUND UTILITY LOCATION SERVICE AT 811 OR 800-382-5544 PRIOR TO ANY EXCAVATION ON THE SITE.

○ PLAN NOTES

1. REMOVE EXISTING ASPHALT PAVEMENT COMPLETE. MAKE STRAIGHT SAW-CUT AT TERMINATION.
2. REMOVE EXISTING CONCRETE WALK COMPLETE.
3. REMOVE EXISTING LIGHTPOLE, BASE AND ASSOCIATED ELECTRICAL COMPLETE.
4. REMOVE EXISTING ABANDONED SANITARY PIPING AND CLEANOUT COMPLETE. REMOVE ALL EXTERIOR PIPING COMPLETE. SEAL AND REPAIR ANY HOLE IN MANHOLE COMPLETE AND WATERTIGHT.
5. REMOVE EXISTING CONCRETE WALK AND CURB COMPLETE. MAKE STRAIGHT SAW-CUT AT NEXT ADJACENT JOINT
6. REMOVE EXISTING BOLLARD COMPLETE.
7. REMOVE EXISTING STORM PIPING AND CLEANOUT COMPLETE. REMOVE ALL EXTERIOR PIPING WITHIN LIMITS OF NEW BUILDING. SEAL ANY REMAINING PIPES WATERTIGHT.
8. PATCH HOLE IN STORM MANHOLE FROM PIPE REMOVAL.
9. NOT USED.
10. MILL EXISTING ASPHALT PAVEMENT.
11. REMOVE EXISTING ACCESSIBLE CURB RAMP COMPLETE.

#	Date	Description
1	16 OCT 2026	ADDENDUM #1



VPS ARCHITECTURE

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Project Name:

FRANKLIN CENTRAL HIGH SCHOOL
HEALTH SCIENCES PAVILION

Drawing Title:

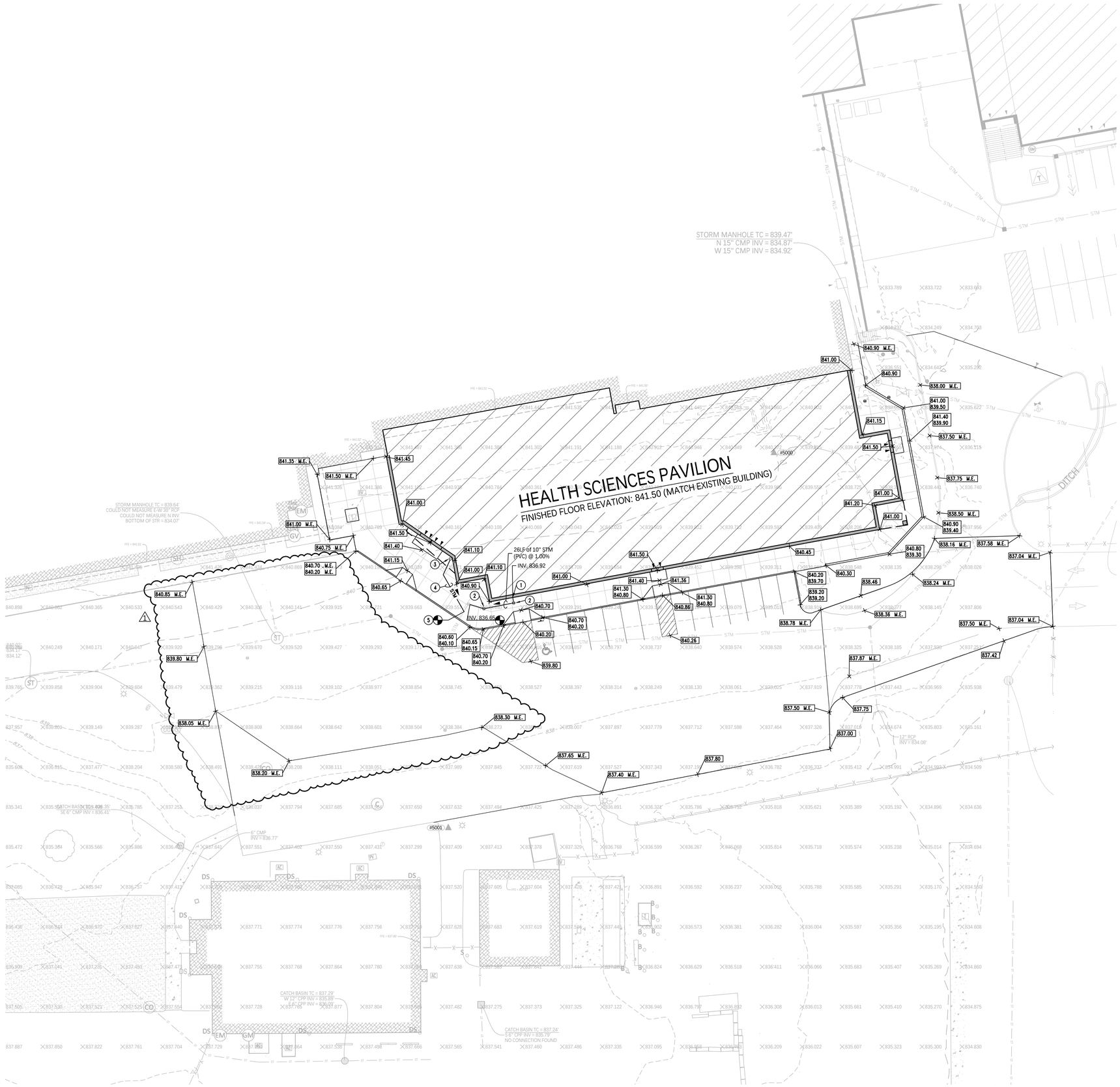
SITE DEMOLITION PLAN

NICHOLAS BIJAN VIZVARY
REG. STEREOTOMIST
No. PE11500269
STATE OF INDIANA
PROFESSIONAL ENGINEER

Client Project No: #########
VPS Project No: Project Number
Project Issue Date: SEPT, 2026
Drawing No: C220

Nicholas Bijan Vizvary

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GENERAL NOTES

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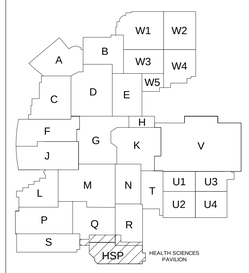
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○ PLAN NOTES

1. REFER TO PLUMBING PLAN FOR INVERT, SIZE, LOCATION, AND ROUTING INTO BUILDING.
2. EXTERIOR CLEANOUT.
3. DOWNSPOUT ADAPTER, CAST IRON, COLOR BY ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF DOWNSPOUT.
4. 6" HDPE ROOF DRAIN. SLOPE AT 1.00% MIN.
5. CONNECT NEW ROOF DRAIN TO EXISTING PVC PIPE VIA INSERTA TEE OR EQUAL.

#	Date	Description
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Project Name:

FRANKLIN CENTRAL HIGH SCHOOL
HEALTH SCIENCES PAVILION

Drawing Title:

SITE GRADING AND DRAINAGE PLAN



Client Project No:	########
VPS Project No:	Project Number
Project Issue Date:	SEPT, 2026
Drawing No:	C230

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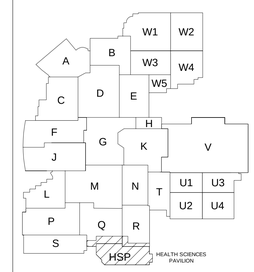
GENERAL NOTES

A. REFER TO IMPROVEMENT DETAILS FOR NOTE REFERENCES.

○ PLAN NOTES

1. ASPHALT PAVEMENT.
2. CONCRETE CURB AND WALK.
3. ACCESSIBLE RAMP.
4. 4" WIDE PAINTED PARKING STRIPE.
5. CONCRETE WALK.
6. FLUSH CONCRETE STOOP. REFER TO STRUCTURAL DRAWINGS.
7. ACCESSIBLE PARKING SPACE.
8. RESURFACE EXISTING ASPHALT PAVEMENT.
9. TURNDOWN RETAINING CURB WITH WALK.
10. CONCRETE CURB.
11. 2FT CURB TAPER.

#	Date	Description
1	16 OCT 2026	ADDENDUM #1



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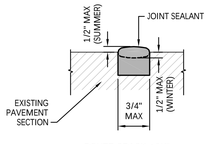
Drawing Title:

SITE IMPROVEMENT PLAN

NICHOLAS BRIAN VENZKE
REGISTERED
No.
PE11500269
STATE OF
INDIANA
PROFESSIONAL ENGINEER

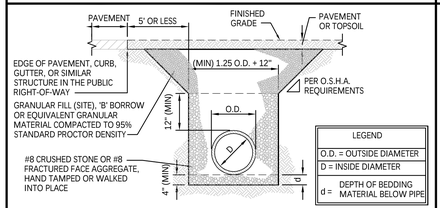
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VPS Project No: Project Number
Project Issue Date: MAR, 2026
Drawing No: C250

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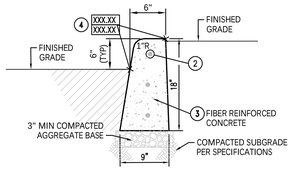
ROUTE CRACK < 3/4" SEALED

13 ASPHALT CRACK REPAIR DETAIL
NO SCALE



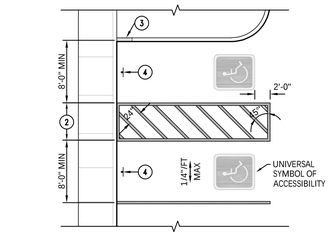
NOTES:
1. ALL BEDDING AND INITIAL BACKFILL SHALL BE INSTALLED 6" TO 12" BALANCED LIFTS.
2. A MINIMUM OF 9" CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.
3. BEDDING SHALL BE SHAPED TO RECEIVE THE PIPE BELL SO THAT THE PIPE BARREL IS UNIFORMLY SUPPORTED.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.

17 FLEXIBLE PIPE (PVC & HDPE) BEDDING DETAIL
NO SCALE



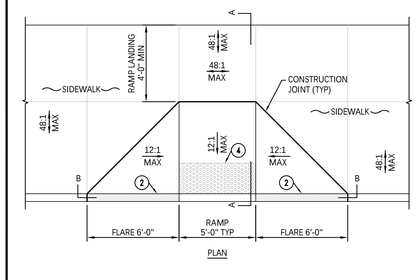
NOTES:
1. WHEN CONSTRUCTION OCCURS WITHIN PUBLIC RIGHT-OF-WAY, THE WORK SHALL COMPLY WITH THE GOVERNING AGENCY REQUIREMENTS.
2. (3) #5x18" SMOOTH DOWELS REQUIRED AT ALL ISOLATION JOINTS.
3. REFER TO SPECIFICATIONS FOR CONCRETE AND JOINT REQUIREMENTS.
4. LOCATION OF CURB AND GUTTER ELEVATIONS. REFER TO GRADING PLAN.

12 STRAIGHT CONCRETE CURB DETAIL
NO SCALE



NOTES:
1. ACCESSIBLE SPACE DIMENSIONS SHALL COMPLY WITH FEDERAL, STATE OR LOCAL REQUIREMENTS, WHICHEVER IS MORE RESTRICTIVE.
2. ACCESS AISLE SHALL BE 5'-0" FOR CARS AND 8'-0" FOR VANS. REFER TO SITE IMPROVEMENT PLAN.
3. WHEN CURB IS ADJACENT TO PEDESTRIAN TRAFFIC, PAINT TOP AND SIDES OF CURB YELLOW IN LOCATIONS WHERE CURB HEIGHT IS BETWEEN 0" AND 6". PER SPECIFICATION, APPLY SILICA SAND TO WET PAINT TO PROVIDE A NON-SLIP SURFACE.
4. ACCESSIBLE PARKING SIGN (REFER TO ACCESSIBLE PARKING SIGN DETAIL). SIGN SHALL BE LOCATED 12" INFRONT OF FACE OF CURB, OR 12" BEHIND BACK OF PAVEMENT.
5. BLUE MARKINGS SHALL BE USED FOR PARKING SPACES FOR PERSONS WITH DISABILITIES. COLOR SHALL BE FEDERAL STANDARD 595 COLOR FS 35180.

8 ACCESSIBLE PARKING SPACE DETAIL
NO SCALE



NOTES:
1. RAMP SHALL COMPLY WITH THE LATEST APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.
2. WHEN CURB IS ADJACENT TO PEDESTRIAN TRAFFIC, PAINT TOP AND SIDES OF CURB YELLOW IN LOCATIONS WHERE CURB HEIGHT IS BETWEEN 0" AND 6". PER SPECIFICATIONS, APPLY SILICA SAND TO WET PAINT TO PROVIDE A NON-SLIP SURFACE.
3. CONTRACTOR TO VERIFY POSITIVE DRAINAGE AWAY FROM RAMP BASE. PROVIDE ADA COMPLIANT RAMP LIP WHERE REQUIRED.
4. PROVIDE DETECTABLE WARNING SURFACE WHERE REQUIRED BY LATEST APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.

4 ACCESSIBLE RAMP TYPE 'A' DETAIL
NO SCALE

NOTES:
1. CLEANOUT PIPING TO BE 6" MINIMUM AND 8" MAXIMUM. PIPING SHALL NOT EXCEED THE SIZE OF THE SITE SEWER.
2. PROVIDE GRAY CAST IRON CLEANOUT LIKE ZURN ZB-1474-SG OR APPROVED EQUAL (REFER TO SPECIFICATIONS). CLEANOUT FRAME TO BE FLUSH WITH FINAL GRADE.
3. WHERE THE SITE SEWER IS GREATER THAN 6" DIAMETER, USE REDUCING TYPE WYE FITTING.
4. REFER TO ASTM C1277 STANDARD SPECIFICATION FOR HEAVY DUTY NO-HUB SHIELDED COUPLINGS.
5. CONCRETE ANCHOR PAD REQUIRED IN LAWN AND LANDSCAPE AREAS.

16 EXTERIOR CLEANOUT DETAIL
NO SCALE

NOTE:
1. WHEN CONSTRUCTION OCCURS WITHIN PUBLIC RIGHT-OF-WAY, THE WORK SHALL COMPLY WITH THE GOVERNING AGENCY REQUIREMENTS.
2. REFER TO GRADING PLAN FOR CURB AND PAVEMENT ELEVATION INFORMATION.
3. WHEN CURB IS ADJACENT TO PEDESTRIAN TRAFFIC, PAINT TOP AND SIDES OF CURB YELLOW IN LOCATIONS WHERE CURB HEIGHT IS BETWEEN 0" AND 6". APPLY SILICA SAND TO WET PAINT PER SPECIFICATIONS.

11 CURB TAPER DETAIL
NO SCALE

NOTES:
1. SIGNAGE TYPE, LOCATION AND INSTALLATION SHALL COMPLY WITH THE LATEST FEDERAL, STATE AND LOCAL ACCESSIBILITY REQUIREMENTS.
2. MOUNTING HARDWARE SHALL BE TAMPER RESISTANT.
3. PROVIDE SHOP DRAWINGS OF SIGNS AND POSTS PRIOR TO ORDERING AND INSTALLATION.
4. BOLLARD AND POST COLOR SHALL BE BLUE OR AS APPROVED BY OWNER/ARCHITECT.

7 ACCESSIBLE PARKING SIGN DETAIL
NO SCALE

NOTES:
1. WHEN CONSTRUCTION OCCURS WITHIN PUBLIC RIGHT-OF-WAY, THE WORK SHALL COMPLY WITH THE GOVERNING AGENCY REQUIREMENTS.
2. REFER TO SPECIFICATIONS FOR CONCRETE AND JOINT REQUIREMENTS.
3. REFER TO IMPROVEMENT PLAN FOR WALK WIDTH AND JOINT PATTERN.
4. END CONTINUOUS REBAR AT ISOLATION/CONSTRUCTION JOINTS. PLACE (3) #5x12 SMOOTH DOWELS (DO NOT OVERLAP).
5. LOCATION OF CURB AND GUTTER ELEVATIONS. REFER TO GRADING PLAN.

3 TURNDOWN RETAINING CURB WITH WALK DETAIL
NO SCALE

15 DOWNSPOUT ADAPTER DETAIL
NO SCALE

NOTES:
1. THIS DETAIL IS NOT APPLICABLE FOR USE IN AREAS SUBJECT TO VEHICULAR TRAFFIC.
2. NEW SIDEWALK SHALL BE FLUSH WITH EXISTING SIDEWALK.
3. REFER TO IMPROVEMENT PLAN FOR PAVEMENT THICKNESS (d).

10 NEW WALK TO EXISTING WALK DETAIL
NO SCALE

NOTE:
1. WHEN CONSTRUCTION OCCURS WITHIN PUBLIC RIGHT-OF-WAY, THE WORK SHALL COMPLY WITH THE GOVERNING AGENCY REQUIREMENTS.
2. REFER TO SPECIFICATIONS FOR AGGREGATE GRADATION AND HOT ASPHALTIC MIX REQUIREMENTS.

6 ASPHALT PAVEMENT DETAIL
NO SCALE

NOTE:
1. WHEN CONSTRUCTION OCCURS WITHIN PUBLIC RIGHT-OF-WAY, THE WORK SHALL COMPLY WITH THE GOVERNING AGENCY REQUIREMENTS.
2. REPAIR DAMAGED OR FAILING PAVEMENT PRIOR TO APPLICATION OF NEW SURFACE.
3. REFER TO SPECIFICATIONS FOR HOT ASPHALTIC MIX REQUIREMENTS.

2 NEW ASPHALT PAVEMENT TO EXISTING ASPHALT PAVEMENT DETAIL
NO SCALE

NOTES:
1. FOR UTILITY TRENCHES IN PAVED AREAS, SAWCUT PAVEMENT TO PROVIDE CLEAN, STRAIGHT EDGES.
2. ALL PAVEMENT PATCHING TO BE IN ACCORDANCE WITH STANDARDS OF GOVERNMENT AGENCY HAVING JURISDICTION OVER PATCH LOCATION. AT A MINIMUM, PATCH SECTION SHALL MATCH EXISTING SECTION.
3. REFER TO SPECIFICATIONS AND DETAILS FOR UTILITY INSTALLATION
4. FOR ASPHALT PAVEMENT PATCH, SEAL JOINT BETWEEN NEW AND EXISTING SURFACE.
5. PAVEMENT PATCH SHALL MATCH EXISTING GRADE. VERIFY POSITIVE DRAINAGE ACROSS PATCH SURFACE. REPAIR IF NECESSARY.

14 UTILITY TRENCH CUT DETAIL
NO SCALE

NOTE:
1. WHEN CONSTRUCTION OCCURS WITHIN PUBLIC RIGHT-OF-WAY, THE WORK SHALL COMPLY WITH THE GOVERNING AGENCY REQUIREMENTS.

9 NEW CONCRETE CURB TO EXISTING CONCRETE CURB DETAIL
NO SCALE

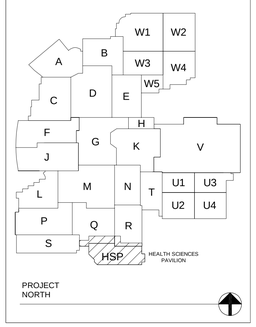
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2. REFER TO SPECIFICATIONS FOR CONCRETE AND JOINT REQUIREMENTS.
3. REFER TO IMPROVEMENT PLAN FOR WALK WIDTH AND JOINT PATTERN.
4. END CONTINUOUS REBAR AT ISOLATION/CONSTRUCTION JOINTS. PLACE (3) #5x12 SMOOTH DOWELS (DO NOT OVERLAP).
5. LOCATION OF CURB AND GUTTER ELEVATIONS. REFER TO GRADING PLAN.

5 CONCRETE CURB AND WALK DETAIL
NO SCALE

NOTES:
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2. REFER TO SPECIFICATIONS FOR CONCRETE AND JOINT REQUIREMENTS.
3. REFER TO IMPROVEMENT PLAN FOR WALK WIDTH AND JOINT PATTERN.

1 CONCRETE WALK DETAIL
NO SCALE

#	Date	Description
1	16 OCT 2026	ADDENDUM #1



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Project Name:

FRANKLIN CENTRAL HIGH SCHOOL

HEALTH SCIENCES PAVILION

Drawing Title:

SITE DETAILS

NICHOLAS BIJAN VIZCAINO
REGISTERED
No. PE11500269
STATE OF INDIANA
PROFESSIONAL ENGINEER

Client Project No: ########

VPS Project No: Project Number

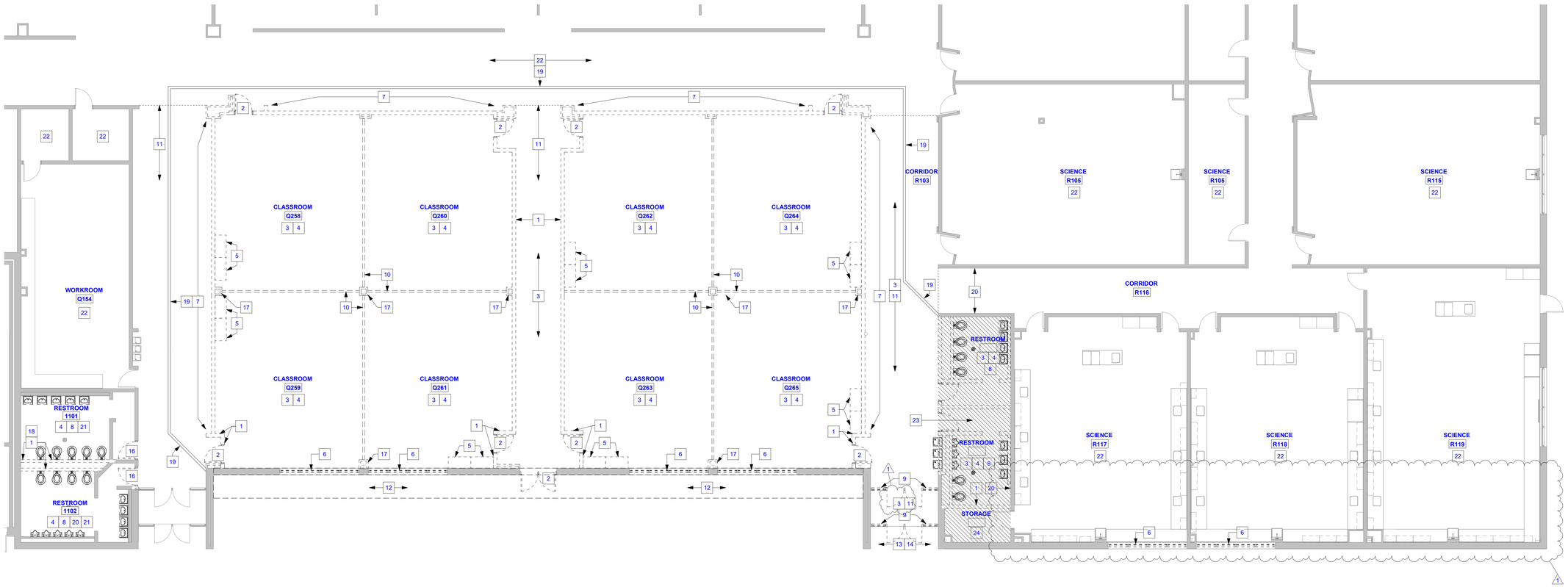
Project Issue Date: SEPT, 2026

Drawing No: C260

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GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL VISIT JOB SITE AND VERIFY ALL CONDITIONS SHOWN ON PLAN.
2. COORDINATE DEMOLITION WITH NEW WORK INDICATED ON DRAWINGS AS WELL AS MEP DEMOLITION DRAWINGS.
3. PROTECT EXISTING COLUMNS AND BEARING WALLS WHERE ADJACENT EXISTING CONSTRUCTION IS TO BE REMOVED.
4. REFER TO DIVISION 1 - SECTION "CUTTING AND PATCHING" AND DECISION 2 - SECTION "SELECTIVE DEMOLITION" AS IT APPLIES TO THE WORK ON THIS DRAWING AND OTHER REMOVAL / DEMOLITION DRAWINGS.
5. THE DRAWINGS ARE INTENDED TO SERVE AS A GENERAL GUIDE AND ARE NOT INTENDED TO BE INCLUSIVE OF ALL REQUIRED SELECTIVE DEMOLITION. ALL SELECTIVE DEMOLITION REQUIRED FOR COMPLETING THE NEW WORK IS PART OF THE REQUIREMENTS OF THE CONTRACT.
6. REFER TO THE REMAINDER OF THE DRAWINGS FOR THE EXISTING STRUCTURAL OR BUILDING SYSTEM COMPONENTS WHICH ARE TO REMAIN OR ARE INCORPORATED INTO THE NEW WORK.
7. WHERE INDICATED REMOVE FINISH DOWN TO SUBSTRATE, PREPARE SURFACE WHERE SCHEDULED TO RECEIVE NEW CONSTRUCTION AND/OR FINISHES.
8. SEE MEP DRAWINGS FOR SPECIFIC DEMOLITION REQUIREMENTS. AT MINIMUM, ALL MEP INFRASTRUCTURE THAT IS NOT COMPLETELY REMOVED BACK TO THE NEAREST RESPECTIVE BRANCH, MAIN, RISER, JUNCTION BOX, PANEL, ETC, AND CAPPED. REMOVE AND PATCH WALLS AS REQUIRED FOR MEP GENERAL DEMOLITION. ALL GENERAL REQUIRED TO COMPLETE MEP IS PART OF THE WORK.
9. WHERE EXISTING MATERIALS OR SYSTEMS ARE TO BE REUSED IN NEW CONSTRUCTION OR ARE TO REMAIN IN PLACE. PROTECT SUCH MATERIALS AND SYSTEMS SO THAT THEY MAY BE CONTINUED IN OR RETURNED TO NORMAL SERVICE. RESTORE EXISTING "WORK TO REMAIN" TO NORMAL SERVICE. RESTORE EXISTING "WORK TO REMAIN" WHICH IS DAMAGED BY THE OPERATIONS OF THE CONTRACT TO THE LEVEL OF SERVICEABILITY AND APPEARANCE WHICH EXISTED BEFORE THE DAMAGE OCCURRED.
10. THE OWNER HAS THE FIRST RIGHT OF REFUSAL ON ALL REMOVED ITEMS. SALVAGE AND DELIVER TO THE OWNER ITEM INDICATED ON THE PLANS OR REQUESTED BY OWNERS.
11. EXISTING ELEVATOR SIGNAGE AND ANY ASSOCIATED SIGNAGE AT BOTH PASSENGER AND FREIGHT ELEVATORS SHALL REMAIN. PROTECT FROM DAMAGE THROUGH COMPLETION OF WORK.
12. WHERE FEC ARE LOCATED IN PARTITION INDICATED TO BE DEMOLISHED, SALVAGED, AND RETURNED OVER TO THE OWNER.
13. WHERE CUTTING, DEMOLITION, OR OTHER REMOVAL OF EXISTING FEATURES OCCURS, PATCH EXISTING SURFACES THAT REMAIN TO MATCH ADJACENT AND AS REQUIRED TO RECEIVE NEW WORK AND/OR NEW FINISHES.
14. REMOVE EXISTING LAY-IN CEILINGS, LIGHTS, DIFFUSERS, GYPSUM BOARD CEILINGS, BULKHEADS CARPET, TILE, ETC, NOT REQUIRED IN COMPLETED NEW WORK OR NOT INDICATED TO REMAIN.
15. WHERE CUTTING, DEMOLITION OR OTHER REMOVAL OF EXISTING FEATURES OCCUR, PATCH EXISTING SURFACES WHICH REMAIN TO RESTORE TO ORIGINAL CONDITION AND AS REQUIRED TO RECEIVE NEW WORK, AND/OR NEW FINISH.
16. PATCH ALL HOLES IN FLOOR NOT NEEDED FOR NEW WORK TO MAINTAIN. SEE SPECIFICATION 017310 CUTTING AND PATCHING. SPECIFICATION 024119 SELECTIVE DEMOLITION AND SPECIFICATION 033053 MISC. CAST-IN-PLACE CONCRETE. WHERE EXISTING FLOOR FINISH OR FLOOR DRAINS ARE INDICATED TO BE REMOVED, PATCH EXISTING CONCRETE FLOORS WITH TROWABLE LEVELING AND PATCHING COMPOUNDS ARE REQUIRED TO PREPARE THE SURFACE TO RECEIVE A NEW FLOOR FINISH.
17. WHEN THERE IS DEMOLITION OF EXISTING MASONRY PARTITIONS, SAW TOOTH NEW INTO EXISTING TO PROVIDE FINISHED SURFACE READY TO RECEIVE NEW CONSTRUCTION. PATCH PLASTER AS REQUIRED.
18. WHERE EXISTING FIRE HOSE ARE LOCATED, REMOVE THEM FROM THE CABINET AND RETURN THEM TO THE OWNER.
19. WHERE NEW MILLWORK MATCHES EXISTING IS INDICATED, THE CONTRACTOR MAY INCORPORATE SALVAGE MILLWORK OF CONTRACTOR'S OPTION.
20. MILLWORK DEMOLITION IS TO BE PERFORMED BY A QUALIFIED MILLWORK CARPENTER.

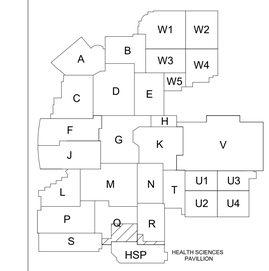


1 AD101 **FIRST FLOOR DEMOLITION PLAN - AREAS Q,R**
1/8" = 1'-0"

DEMOLITION NOTES

#	KEYNOTE INFORMATION
1	REMOVE EXISTING WALL
2	REMOVE EXISTING DOOR & FRAME.
3	REMOVE ALL EXISTING FLOORING, WALL BASE, ADHESIVES, GROUT BEDS, TRANSITION STRIPS & PREPARE EXISTING CONCRETE FLOOR TO PROVIDE PROPER SMOOTH UNIFORM SURFACE FOR NEW FLOOR FINISH.
4	REMOVE EXISTING CEILING & ASSOCIATED SUPPORT FRAMING.
5	REMOVE EXISTING CASEWORK.
6	REMOVE EXISTING WINDOW (AND SILL WHERE OCCURS).
7	REMOVE EXISTING LOCKERS COMPLETELY.
8	REMOVE EXISTING PLUMBING FIXTURES, REFER TO PLUMBING REMOVAL DRAWINGS. REMOVE ALL TOILET PARTITIONS AND ACCESSORIES (WHERE OCCURS).
9	EXISTING DOORS AND SIDELIGHTS TO BE REMOVED COMPLETLY.
10	EXISTING MOVABLE WALL AND ALL ASSOCIATED SUPPORTS TO BE REMOVED.
11	REMOVE EXISTING CEILING & ASSOCIATED SUPPORT FRAMING FROM LINE OF EXISTING WALL AS INDICATED.
12	REMOVE EXISTING EXTERIOR CANOPY STRUCTURE COMPLETELY.
13	REMOVE EXISTING PLASTER SOFFIT COMPLETELY.
14	EXISTING CONCRETE WALK TO BE REMOVED. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
15	NOT USED.
16	EXISTING COCUMN SURROUND TO BE COMPLETELY DEMOLISHED.
17	REMOVE EXISTING WINDOW (AND SILL WHERE OCCURS).
18	PATCH AND REPAIR FLOOR TO MATCH EXISTING.
19	INDICATES TEMPORARY WALL, 5/8" GYP. BD. (B.S.) ON NOM. 2'x4' WD. STUDS @ 16" O.C. w/SOUND BATT INSUALTION, EXTEND TO BOTTOM OF DECK ABOVE
20	EXISTING WALLS TO REMAIN (SHOWN SHADED)
21	EXISTING FLOORING TO REMAIN. PATCH AND REPAIR AS REQUIRED TO PROVIDE A SMOOTH FINISH.
22	EXISTING TO REMAIN.
23	REMOVE FLOOR SLAB IN SHADED AREA TO REPLACE PLUMBING PIPING BELOW. REFER TO PLUMBING DRAWINGS FOR EXTENT OF DEMOLITION
24	EXISTING LAY-IN CEILING AND DEVICES TO REMAIN. PROTECT ALL DURING DEMOLITION AND NEW CONSTRUCTION.

#	Date	Description
1	10-16-2026	ADDENDUM 1



Wold VPS

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TECHNOLOGY:
Design 27
1650 E. 49th Street
Indianapolis, Indiana 46205
(317) 536-8000

Project Name:

Franklin Central High School Health Sciences Pavilion

Drawing Title:

DEMOLITION FLOOR PLAN

MICHAEL HEATHER HARBERT
No. 11800215
STATE OF INDIANA
REGISTERED ARCHITECT

Client Project No:

VPS Project No: **2025019.00**

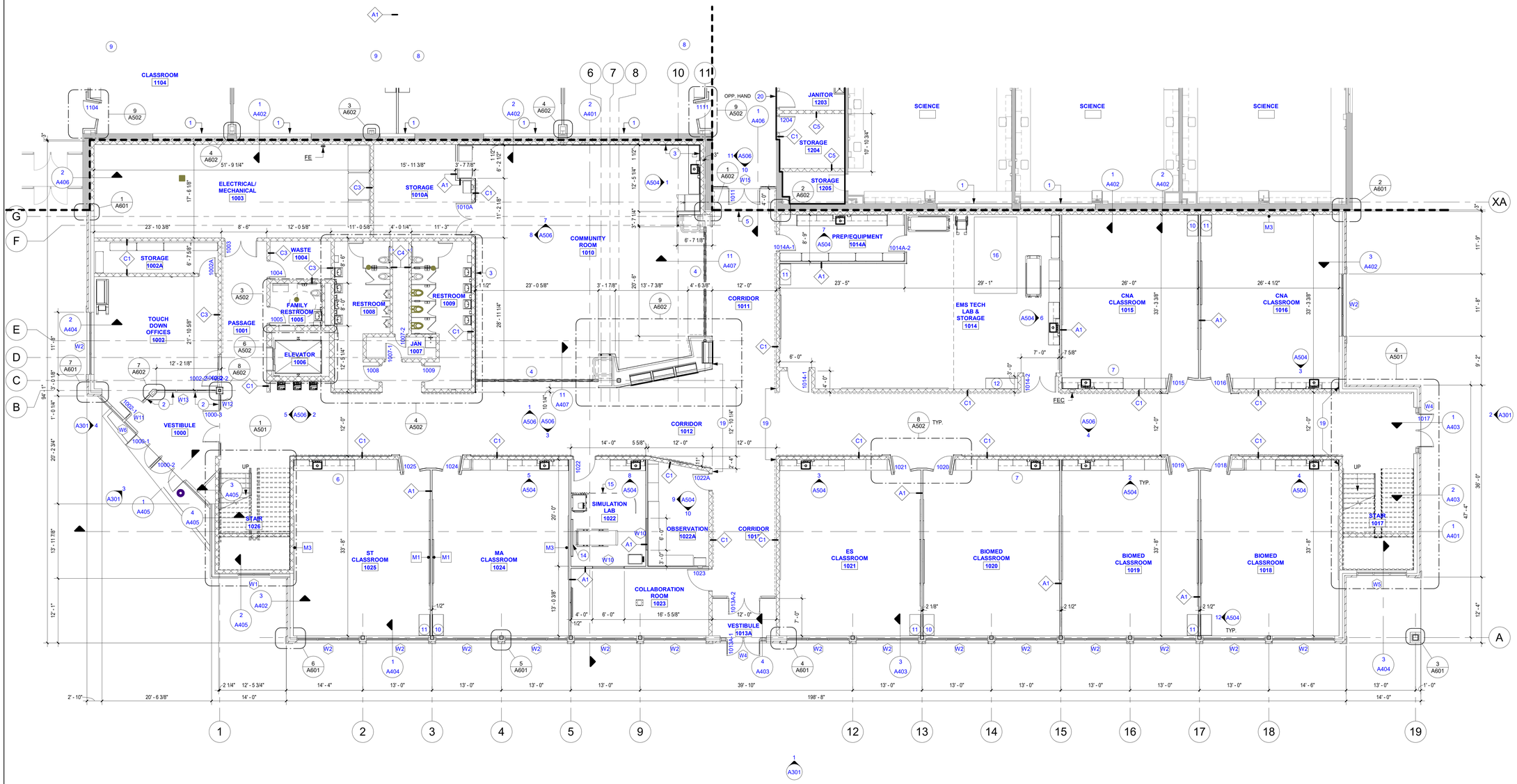
Project Issue Date:

Drawing No: **AD101**

GENERAL FLOOR PLAN NOTES

NOTE: GENERAL NOTES LISTED BELOW REFER TO ALL SHEETS CONTAINED IN THIS SET.

1. FIELD VERIFY ALL EXISTING CONDITIONS. NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES THAT EXIST.
2. CONSTRUCTION AND INSTALLATIONS SHALL CONFORM, TO ALL FEDERAL, STATE, AND LOCAL ORDINANCES, CODES, ETC.
3. ALL DIMENSIONS ON FLOOR PLANS ARE FROM THE FACE OF FINISH GYPSUM BOARD, FACE OF MASONRY, FACE OF CONCRETE, FACE OF EXISTING WALL OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE.
4. GYPSUM BOARD WALLS NOT REQUIRED TO EXTEND TO THE BOTTOM OF THE STRUCTURE ABOVE SHALL TERMINATE 6" ABOVE THE HIGHEST ADJOINING CEILING AND SHALL BE BRACED EITHER BY ATTACHING ALTERNATING DIAGONAL STUDS 48" O.C. FROM TOP OF WALL TO STRUCTURE OR BY EXISTING WALL STUDS TO STRUCTURE ABOVE.
5. PROVIDE WOOD BLOCKING IN WALLS AND CEILINGS AS REQUIRED FOR INSTALLATION OF CASEWORK OR OTHER SURFACE-MOUNTED ACCESSORIES.
6. ALL CHASE WALLS SHALL BE 3 5/8" METAL STUDS @ 16" O.C WITH 5/8" GYPSUM BOARD ON ONE SIDE UNLESS NOTED OTHERWISE.
7. REFER TO 3/A508 FOR MARKERBOARD AND TACKBOARD ELEVATIONS.
8. CONTRACTOR TO PROVIDE ROLLER SHADES AT ALL WINDOW LOCATIONS. REFER TO SPECIFICATIONS.
9. CONTRACTOR TO PROVIDE CLOCKS IN EVERY CLASSROOM/LAB ON OPPOSITE WALL FROM PROJECTOR SCREEN. MOUNTING HEIGHT TO BE BY OWNER. REFER TO SPECIFICATIONS.

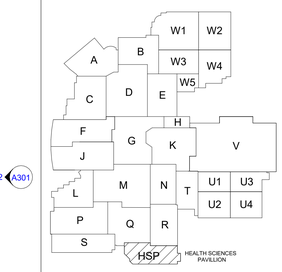


1 **FIRST FLOOR ARCHITECTURAL FLOOR PLAN - AREA HSP**
A101HSP 1/8" = 1'-0"

ARCHITECTURE PLAN NOTES

#	KEYNOTE INFORMATION
1	INFILL WINDOW OPENING WITH TOOTHED-IN C.M.U. (TYPICAL)
2	PROVIDE ROIT FILM ON VESTIBULE SIDE OF GLASS.
3	7/8" HAT-CHANNELS WITH 5/8" GYPSUM BOARD TO DECK.
4	MODERNFOLD ACOUSTI-CLEAR GLASS WALL SYSTEM. REFER TO DETAIL 11/A407.
5	9" EXPANSION JOINT COVER.
6	REFER TO INTERIOR ELEVATION 2/A504 FOR TYPICAL CLASSROOM CASEWORK - AREA HSP.
7	REFER TO INTERIOR ELEVATION 2/A504 FOR TYPICAL CLASSROOM CASEWORK - AREA HSP (OPPOSITE HAND).
8	REFER TO INTERIOR ELEVATION 11/A504 FOR TYPICAL CLASSROOM CASEWORK - AREA Q.
9	REFER TO INTERIOR ELEVATION 11/A504 FOR TYPICAL CLASSROOM CASEWORK - AREA Q (OPPOSITE HAND).
10	REFER TO INTERIOR ELEVATION 12/A504 FOR TYPICAL DESK.
11	REFER TO INTERIOR ELEVATION 12/A504 FOR TYPICAL DESK (OPPOSITE HAND).
12	REFER TO INTERIOR ELEVATION 13/A504 FOR TYPICAL CLASSROOM CUBBIES.
13	11'-0" W. x 8'-6" H. HEAVY DUTY VINYL STRIP CURTAIN.
14	HEADWALL WITH POWER AND NON-MEDICAL AIR. REFER TO SPECIFICATIONS.
15	CUBICLE CURTAIN AND CEILING MOUNTED TRACK. REFER TO SPECIFICATIONS.
16	AMBULANCE SIMULATOR. REFER TO SPECIFICATIONS.
17	FUME HOOD. REFER TO SPECIFICATIONS.
18	PROVIDE PLYWOOD ALL WALLS THIS ROOM. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.
19	ALIGN.
20	INFILL FLOOR SLAB THIS AREA. REFER TO STRUCTURAL DRAWINGS
21	BASE BID (STORAGE) INCLUDES STRUCTURE FOR BOOM, DOOR 2011A, PLUMBING STUB-IN FOR SCRUB SINK, AND ALL ELECTRICAL AND DATA OUTLETS.

#	Date	Description
1	10-16-2026	ADDENDUM 1



PROJECT NORTH

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(317) 617-4270

TECHNOLOGY:
Design 27
1650 E. 49th Street
Indianapolis, Indiana 46205
(317) 536-8000

Project Name:

Franklin Central High School Health Sciences Pavilion

Drawing Title:

FIRST FLOOR ARCHITECTURAL FLOOR PLAN - AREA HSP

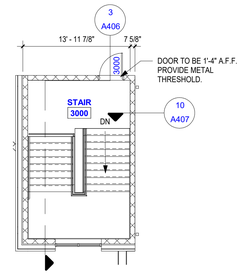
MATT HEATHER HARBERT
No. 11800215
STATE OF INDIANA
REGISTERED ARCHITECT

Client Project No:	
VPS Project No:	2025019.00
Project Issue Date:	
Drawing No:	A101HSP

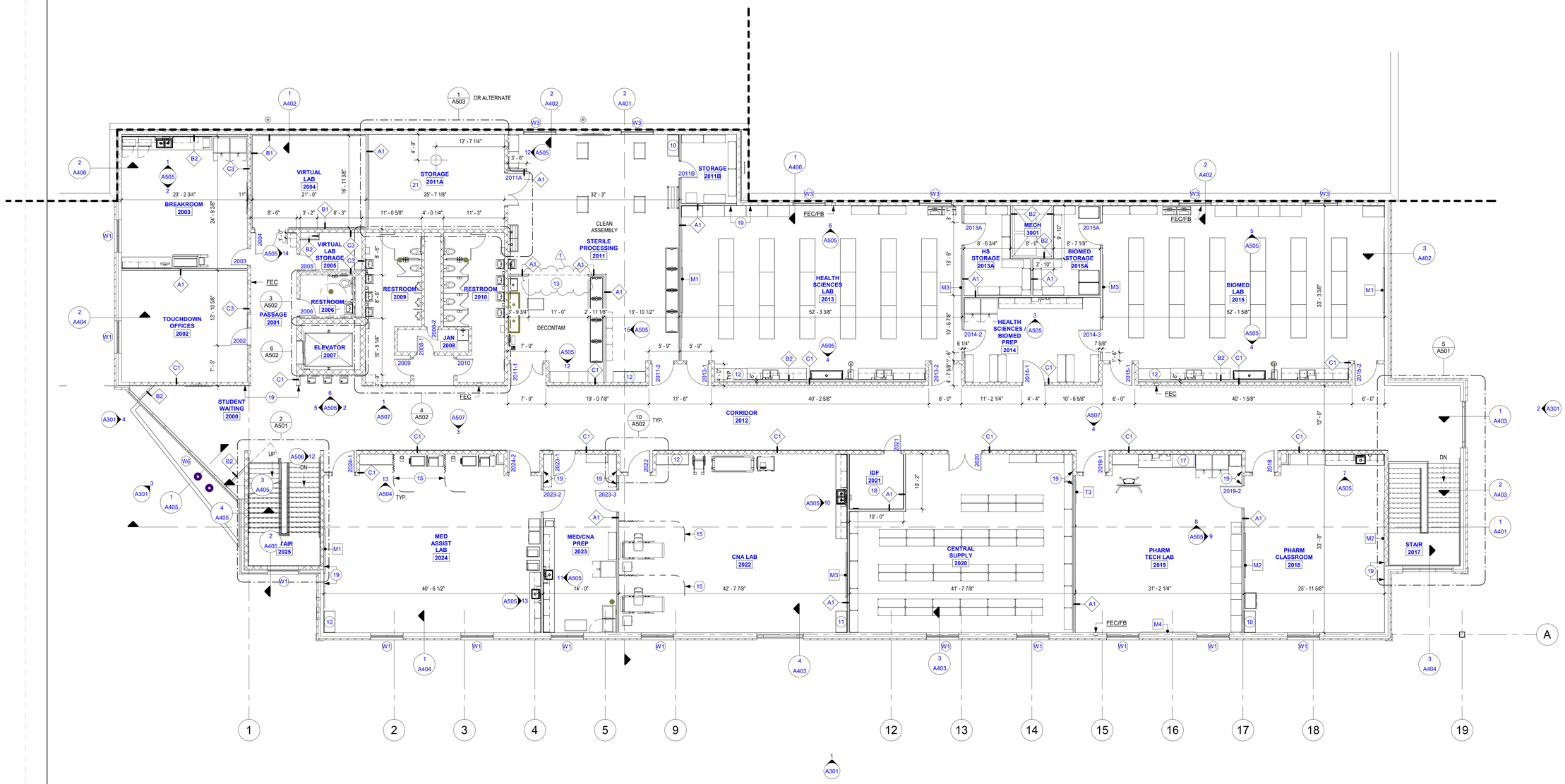
GENERAL FLOOR PLAN NOTES

NOTE: GENERAL NOTES LISTED BELOW REFER TO ALL SHEETS CONTAINED IN THIS SET.

1. FIELD VERIFY ALL EXISTING CONDITIONS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES THAT EXIST.
2. CONSTRUCTION AND INSTALLATIONS SHALL CONFORM, TO ALL FEDERAL, STATE, AND LOCAL ORDINANCES, CODES, ETC.
3. ALL DIMENSIONS ON FLOOR PLANS ARE FROM THE FACE OF FINISH GYPSUM BOARD, FACE OF MASONRY, FACE OF CONCRETE, FACE OF EXISTING WALL OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE.
4. GYPSUM BOARD WALLS NOT REQUIRED TO EXTEND TO THE BOTTOM OF THE STRUCTURE ABOVE SHALL TERMINATE 6" ABOVE THE HIGHEST ADJOINING CEILING AND SHALL BE BRACED EITHER BY ATTACHING ALTERNATING DIAGONAL STUDS 48" O.C. FROM TOP OF WALL TO STRUCTURE OR BY EXISTING WALL STUDS TO STRUCTURE ABOVE.
5. PROVIDE WOOD BLOCKING IN WALLS AND CEILINGS AS REQUIRED FOR INSTALLATION OF CASEWORK OR OTHER SURFACE-MOUNTED ACCESSORIES.
6. ALL CHASE WALLS SHALL BE 3 5/8" METAL STUDS @ 16" O.C WITH 5/8" GYPSUM BOARD ON ONE SIDE UNLESS NOTED OTHERWISE.
7. REFER TO 3/A508 FOR MARKERBOARD AND TACKBOARD ELEVATIONS.
8. CONTRACTOR TO PROVIDE ROLLER SHADES AT ALL WINDOW LOCATIONS. REFER TO SPECIFICATIONS.
9. CONTRACTOR TO PROVIDE CLOCKS IN EVERY CLASSROOM/LAB ON OPPOSITE WALL FROM PROJECTOR SCREEN. MOUNTING HEIGHT TO BE BY OWNER. REFER TO SPECIFICATIONS.



2 A102HSP **THIRD FLOOR ARCHITECTURAL PLAN** 1/8" = 1'-0"

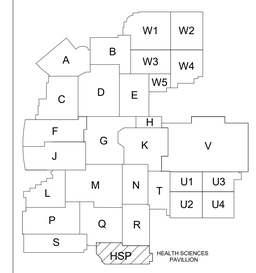


1 A102HSP **SECOND FLOOR ARCHITECTURAL PLAN- AREA HSP** 1/8" = 1'-0"

ARCHITECTURE PLAN NOTES

#	KEYNOTE INFORMATION
1	INFILL WINDOW OPENING WITH TOOTHED-IN C.M.U. (TYPICAL)
2	PROVIDE ROIT FILM ON VESTIBULE SIDE OF GLASS.
3	7/8" HAT CHANNELS WITH 5/8" GYPSUM BOARD TO DECK.
4	MODERNFOLD ACOUSTI-CLEAR GLASS WALL SYSTEM. REFER TO DETAIL 11/A407.
5	3" EXPANSION JOINT COVER.
6	REFER TO INTERIOR ELEVATION 2/A504 FOR TYPICAL CLASSROOM CASEWORK - AREA HSP.
7	REFER TO INTERIOR ELEVATION 2/A504 FOR TYPICAL CLASSROOM CASEWORK - AREA HSP (OPPOSITE HAND).
8	REFER TO INTERIOR ELEVATION 11/A504 FOR TYPICAL CLASSROOM CASEWORK - AREA Q.
9	REFER TO INTERIOR ELEVATION 11/A504 FOR TYPICAL CLASSROOM CASEWORK - AREA Q (OPPOSITE HAND).
10	REFER TO INTERIOR ELEVATION 12/A504 FOR TYPICAL DESK.
11	REFER TO INTERIOR ELEVATION 12/A504 FOR TYPICAL DESK (OPPOSITE HAND).
12	REFER TO INTERIOR ELEVATION 13/A504 FOR TYPICAL CLASSROOM CUBBIES.
13	11'-0" W. x 8'-6" H. HEAVY DUTY VINYL STRIP CURTAIN.
14	HEADWALL WITH POWER AND NON-MEDICAL AIR. REFER TO SPECIFICATIONS.
15	CUBICLE CURTAIN AND CEILING MOUNTED TRACK. REFER TO SPECIFICATIONS.
16	AMBULANCE SIMULATOR. REFER TO SPECIFICATIONS.
17	FUME HOOD. REFER TO SPECIFICATIONS.
18	PROVIDE PLYWOOD ALL WALLS THIS ROOM. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.
19	ALIGN.
20	INFILL FLOOR SLAB THIS AREA. REFER TO STRUCTURAL DRAWINGS
21	BASE BID (STORAGE) INCLUDES STRUCTURE FOR BOOM, DOOR 2011A, PLUMBING STUB-IN FOR SCRUB SINK, AND ALL ELECTRICAL AND DATA OUTLETS.

#	Date	Description
1	10-16-2026	ADDENDUM 1



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(317) 617-4270

TECHNOLOGY:
Design 27
1650 E. 49th Street
Indianapolis, Indiana 46205
(317) 536-8000

Project Name:

Franklin Central High School Health Sciences Pavilion

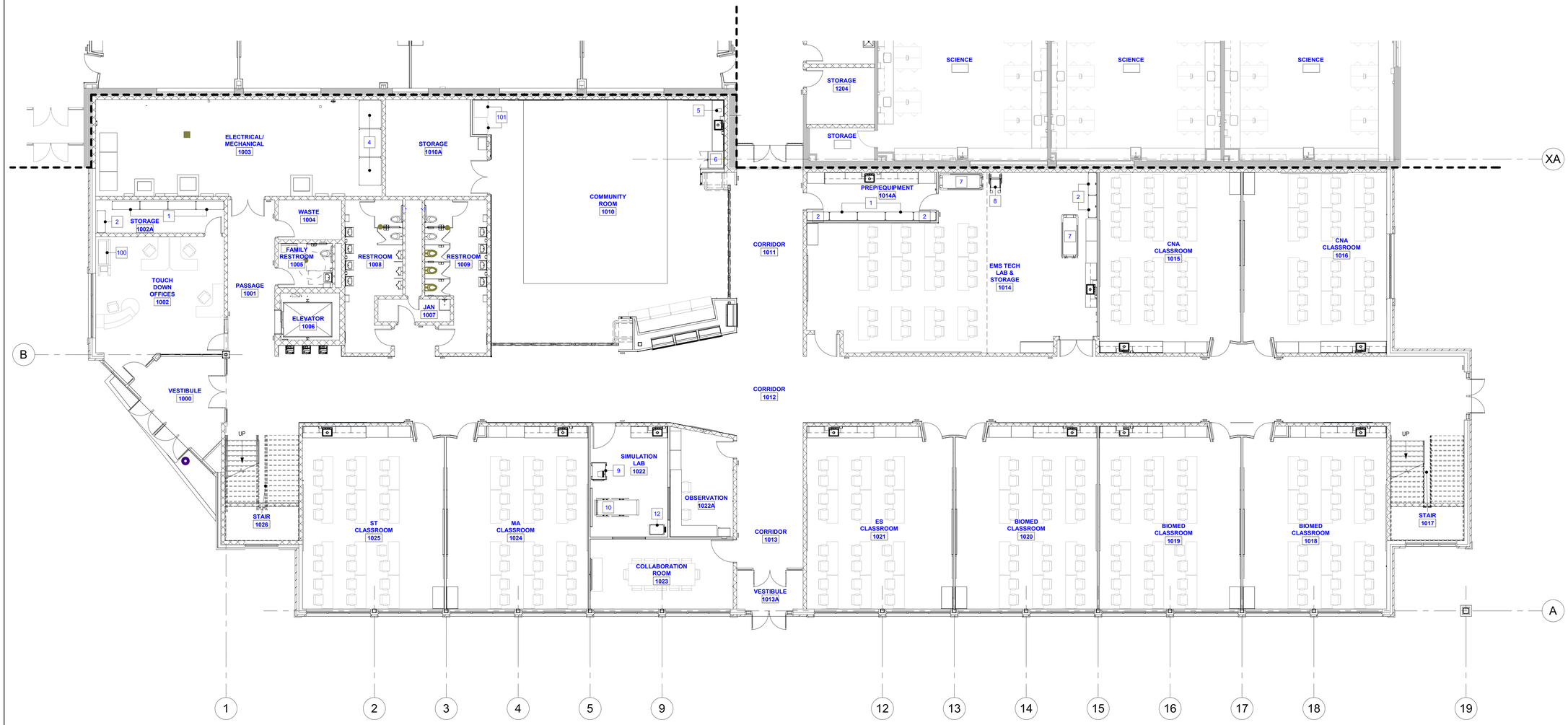
Drawing Title:

SECOND & THIRD FLOOR ARCHITECTURAL FLOOR PLAN - AREA HSP

MATT HEATHER HARBERT
No. 11800215
STATE OF INDIANA
REGISTERED ARCHITECT

Client Project No:	
VPS Project No:	2025019.00
Project Issue Date:	
Drawing No:	A102HSP

EQUIPMENT NOTES	
#	KEYNOTE INFORMATION
1	WIRE SHELVING, 18x60.
2	WIRE SHELVING, 18x48.
3	WIRE SHELVING, 18x72.
4	WIRE SHELVING, 48x60.
5	COFFEE MAKER
6	REFRIGERATOR
7	STRETCHER
8	WHEELCHAIR
9	CRASH CART
10	PATIENT BED
12	MEDICINE CART
13	ICE MAKER
14	MICROWAVE
15	ULTRASONIC CLEANER
16	EQUIPMENT CART
17	WRAP CART
18	CASE CART
19	UTILITY CART
20	INCUBATOR
21	BEDSIDE TABLE
22	END TABLE
23	LINEN HAMPER
24	SMALL CENTRIFUGE
25	LINEN CART
26	WASHER
27	DRYER
28	CENTRIFUGE
29	PHLEBOTOMY CHAIR
30	PROCEDURE CART
31	SCALE
50	SURGICAL TABLE, ALTERNATE ONLY
51	SURGICAL BOOM, ALTERNATE ONLY
52	ANESTHESIA CART, ALTERNATE ONLY
100	COPIER (O.F.O.I.)
101	VENDING MACHINE (O.F.O.I.)
102	COMPUTER ON WHEELS (OF.O.I.)
103	LAPTOP CHARGING CART (O.F.O.I.)
104	FLAMMABLE CABINET (O.F.O.I.)
105	WALL MOUNTED COMPUTER STATION (O.F.O.I.)

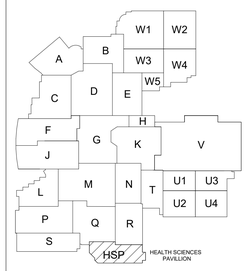


1 **FIRST FLOOR EQUIPMENT FLOOR PLAN - AREA HSP**
A103HSP 1/8" = 1'-0"

GENERAL EQUPMENT NOTES

1. ITEMS SHOWN ON EQUIPMENT PLANS ARE FOR REFERENCE ONLY. ALL EQUIPMENT WILL BE BID UNDER A SEPARATE PACKAGE. ALL EQUIPMENT PROVIDED BY CONTRACTOR IS NOTED ON ARCHITECTURAL PLANS.
2. FURNITURE SHOWN FOR REFERENCE ONLY. (SHOWN SHADED)

#	Date	Description
1	10-16-2026	ADDENDUM 1



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Project Name:

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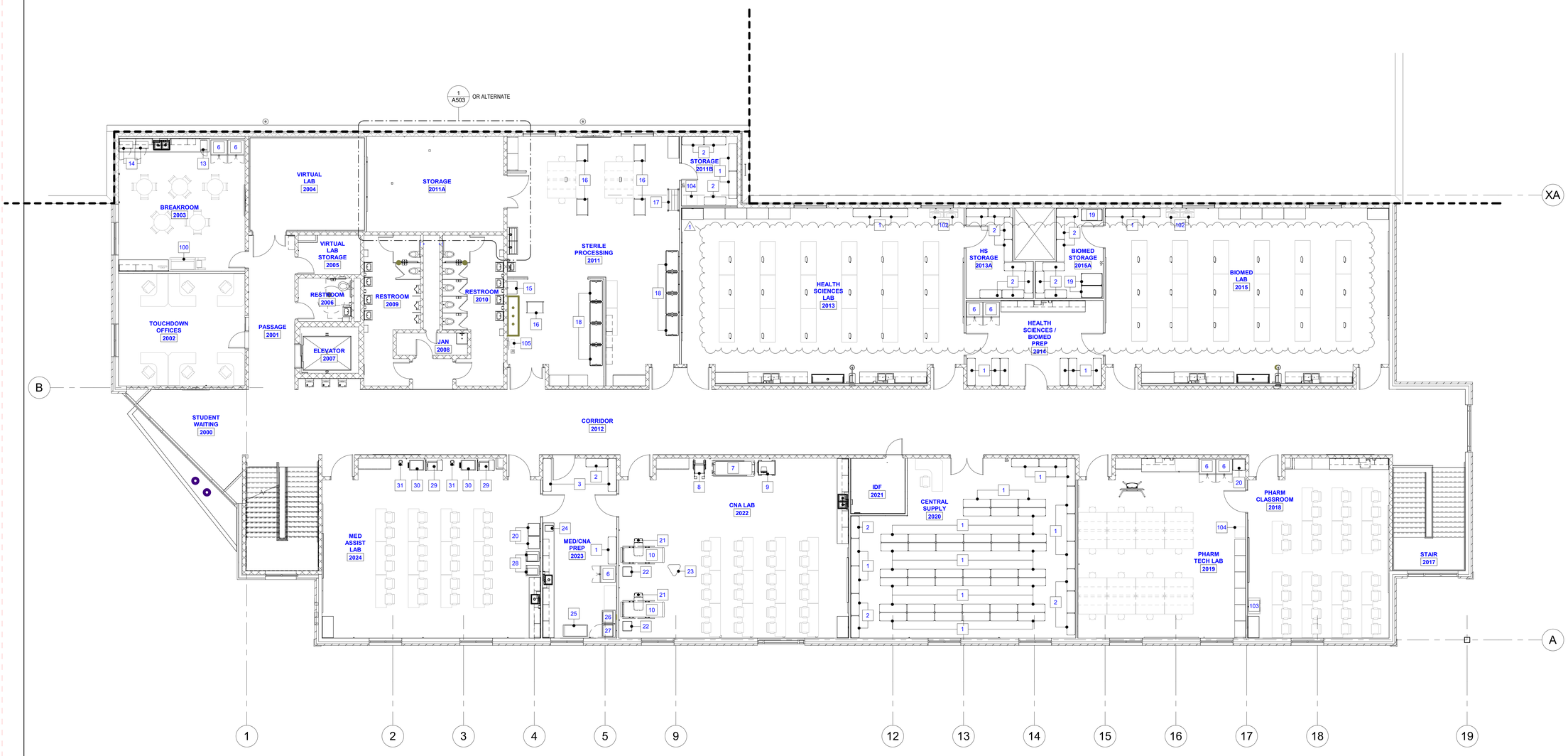
Drawing Title:

FIRST FLOOR EQUIPMENT FLOOR PLAN - AREA HSP

MARY HEATHER HARBERT
REGISTERED
No. 11800215
STATE OF INDIANA

Client Project No:	
VPS Project No:	2025019.00
Project Issue Date:	
Drawing No:	A103HSP

EQUIPMENT NOTES	
#	KEYNOTE INFORMATION
1	WIRE SHELVING, 18x60.
2	WIRE SHELVING, 18x48.
3	WIRE SHELVING, 18x72.
4	WIRE SHELVING, 48x60.
5	COFFEE MAKER
6	REFRIGERATOR
7	STRETCHER
8	WHEELCHAIR
9	CRASH CART
10	PATIENT BED
12	MEDICINE CART
13	ICE MAKER
14	MICROWAVE
15	ULTRASONIC CLEANER
16	EQUIPMENT CART
17	WRAP CART
18	CASE CART
19	UTILITY CART
20	INCUBATOR
21	BEDSIDE TABLE
22	END TABLE
23	LINEN HAMPER
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25	LINEN CART
26	WASHER
27	DRYER
28	CENTRIFUGE
29	PHLEBOTOMY CHAIR
30	PROCEDURE CART
31	SCALE
50	SURGICAL TABLE, ALTERNATE ONLY
51	SURGICAL BOOM, ALTERNATE ONLY
52	ANESTHESIA CART, ALTERNATE ONLY
100	COPIER (O.F.O.I.)
101	VENDING MACHINE (O.F.O.I.)
102	COMPUTER ON WHEELS (OF.O.I.)
103	LAPTOP CHARGING CART (O.F.O.I.)
104	FLAMMABLE CABINET (O.F.O.I.)
105	WALL MOUNTED COMPUTER STATION (O.F.O.I.)

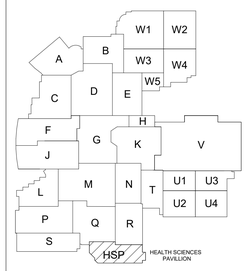


1 SECOND FLOOR EQUIPMENT PLAN- AREA HSP
A104HSP 1/8" = 1'-0"

GENERAL EQUPMENT NOTES

1. ITEMS SHOWN ON EQUIPMENT PLANS ARE FOR REFERENCE ONLY. ALL EQUIPMENT WILL BE BID UNDER A SEPARATE PACKAGE. ALL EQUIPMENT PROVIDED BY CONTRACTOR IS NOTED ON ARCHITECTURAL PLANS.
2. FURNITURE SHOWN FOR REFERENCE ONLY. (SHOWN SHADED)

#	Date	Description
1	10-16-2026	ADDENDUM 1



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TECHNOLOGY:
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Indianapolis, Indiana 46205
(317) 536-8000

Project Name:

Franklin Central High School Health Sciences Pavilion

Drawing Title:

SECOND FLOOR EQUIPMENT PLAN - AREA HSP

MARY HEATHER HARBERT
No. 11800215
STATE OF INDIANA
REGISTERED ARCHITECT

Client Project No:	
VPS Project No:	2025019.00
Project Issue Date:	
Drawing No:	A104HSP

REFLECTED CEILING PLAN LEGEND

REFER TO MECHANICAL, ELECTRICAL AND/OR PLUMBING DRAWINGS FOR SPECIFICATIONS OF ITEMS

- INDICATES AREA OF 5/8" GYPSUM BOARD CEILING/SOFFIT/BULKHEAD ON 3 5/8" METAL STUDS @ 16" O.C. (U.N.O.) PAINT
- INDICATES 2' x 2' LAY-IN CEILING TILE WITH METAL GRID, U.N.O.
- INDICATES 4' x 4' LAY-IN CEILING TILE WITH METAL GRID, U.N.O.
- 2' x 4' RECESSED LIGHT FIXTURE
- 2' x 2' RECESSED LIGHT FIXTURE
- 1' x 4' RECESSED LIGHT FIXTURE
- 1' x 2' RECESSED LIGHT FIXTURE
- CAN LIGHT FIXTURE
- 2' x 2' SUPPLY AIR
- RETURN AIR GRILLE
- EXHAUST FAN
- PROJECTOR
- SECURITY CAMERA
- PROGRAM LOAD SPEAKER
- PAGING LOAD SPEAKER
- CEILING MOUNTED CORD REEL
- OTS — OPEN TO STRUCTURE
- ETR — EXISTING TO REMAIN

GENERAL REFLECTED CEILING PLAN NOTES

1. ALL LAY-IN CEILINGS ARE TYPE A, UNLESS NOTED OTHERWISE.
2. CEILING ELEVATION TAGS REFER TO HEIGHT ABOVE EITHER FINISHED SLAB IN AREAS OF NEW CONSTRUCTION & RENOVATION OR ABOVE EXISTING FINISH FLOOR IN AREAS TO REMAIN.
3. CENTER PENETRATIONS IN ACOUSTICAL CEILING SYSTEMS WITHIN INDIVIDUAL CEILING PANELS, SUCH AS SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, ETC., UNLESS NOTED OTHERWISE.
4. PAINT ALL EXPOSED GYP. BD FROM SPECIFIC SURFACES U.N.O.
5. REFER TO ELECTRICAL DRAWINGS FOR CEILING-MOUNTED LIGHT FIXTURE TYPES & QUANTITIES.
6. REFER TO MECHANICAL DRAWINGS FOR CEILING-MOUNTED DIFFUSERS, GRILLE TYPES & QUANTITIES.
7. THE REFLECTED CEILING PLANS SHOW THE DESIGN INTENT OF MECHANICAL & ELECTRICAL BUILDING SYSTEMS TO BE INTEGRATED INTO CEILINGS. REFLECTED CEILING PLANS SHALL TAKE PRECEDENCE OVER MECHANICAL & ELECTRICAL DRAWINGS. REFER DISCOVERED DISCREPANCIES TO THE ARCHITECT FOR DIRECTION.
8. SHALL CONTINUE UP ADJACENT VERTICAL FACES.
9. ALL GAPS BETWEEN WALL MOULD ANGLES & WALL FACE SHALL BE FILLED WITH SEALANT.

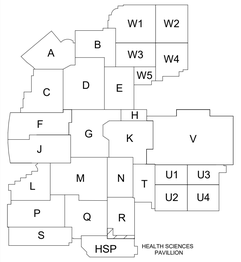


1 A201R FIRST FLOOR REFLECTED CEILING PLAN - AREA R
1/8" = 1'-0"

REFLECTED CEILING PLAN NOTES

#	KEYNOTE INFORMATION
1	4' x 4' LAY-IN CEILING TILE WITH METAL GRID.
2	COMPASSO TRIM. REFER TO DETAIL 4/A202HSP.
3	GYPSUM BOARD BULKHEAD. REFER TO DETAIL 3/A201HSP.
4	GYPSUM BOARD BULKHEAD. REFER TO DETAIL 4/A201HSP.
5	GYPSUM BOARD BULKHEAD. REFER TO DETAIL 2/A201HSP.
6	GYPSUM BOARD BULKHEAD. REFER TO DETAIL 3/A202HSP.
7	FLOATING CEILING. PAINT EXPOSED DECK ABOVE LIGHT GRAY. REFER TO DETAIL 5/A202HSP.
8	GYPSUM BOARD BULKHEAD. REFER TO WALL SECTION 1/A406.
9	CEILING MOUNTED CUBICLE CURTAIN TRACK. REFER TO DETAIL 5/A201HSP.
10	STRUCTURE ABOVE FOR BOOM. REFER TO STRUCTURAL DRAWINGS.
11	PAINT CEILING AND SOFFIT PT-4.
12	EXISTING LAY-IN CEILING. PATCH AND REPAIR ANY DAMAGED GRID, TILES OR DEVICES WITHIN THIS ROOM.

#	Date	Description
1	10-16-2026	ADDENDUM 1



PROJECT NORTH

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Project Name:

Franklin Central High School Health Sciences Pavilion

Drawing Title:

FIRST FLOOR REFLECTED CEILING PLAN - AREA R

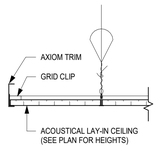
MARY HEATHER HARBERT — No. 11800215 — STATE OF INDIANA

Client Project No:

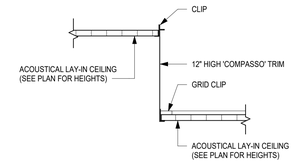
VPS Project No: **2025019.00**

Project Issue Date:

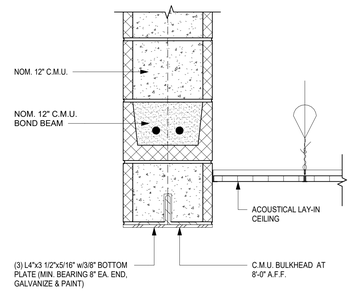
Drawing No: **A201R**



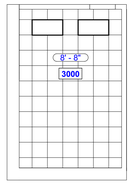
5 **CEILING FLOATING AXIOM TRIM**
A202HSP 1 1/2" = 1'-0"



4 **CEILING TRANSITION DETAIL**
A202HSP 1 1/2" = 1'-0"



3 **BULKHEAD DETAIL**
A202HSP 1 1/2" = 1'-0"



2 **THIRD FLOOR RFLECTED CEILING PLAN**
A202HSP 1/8" = 1'-0"

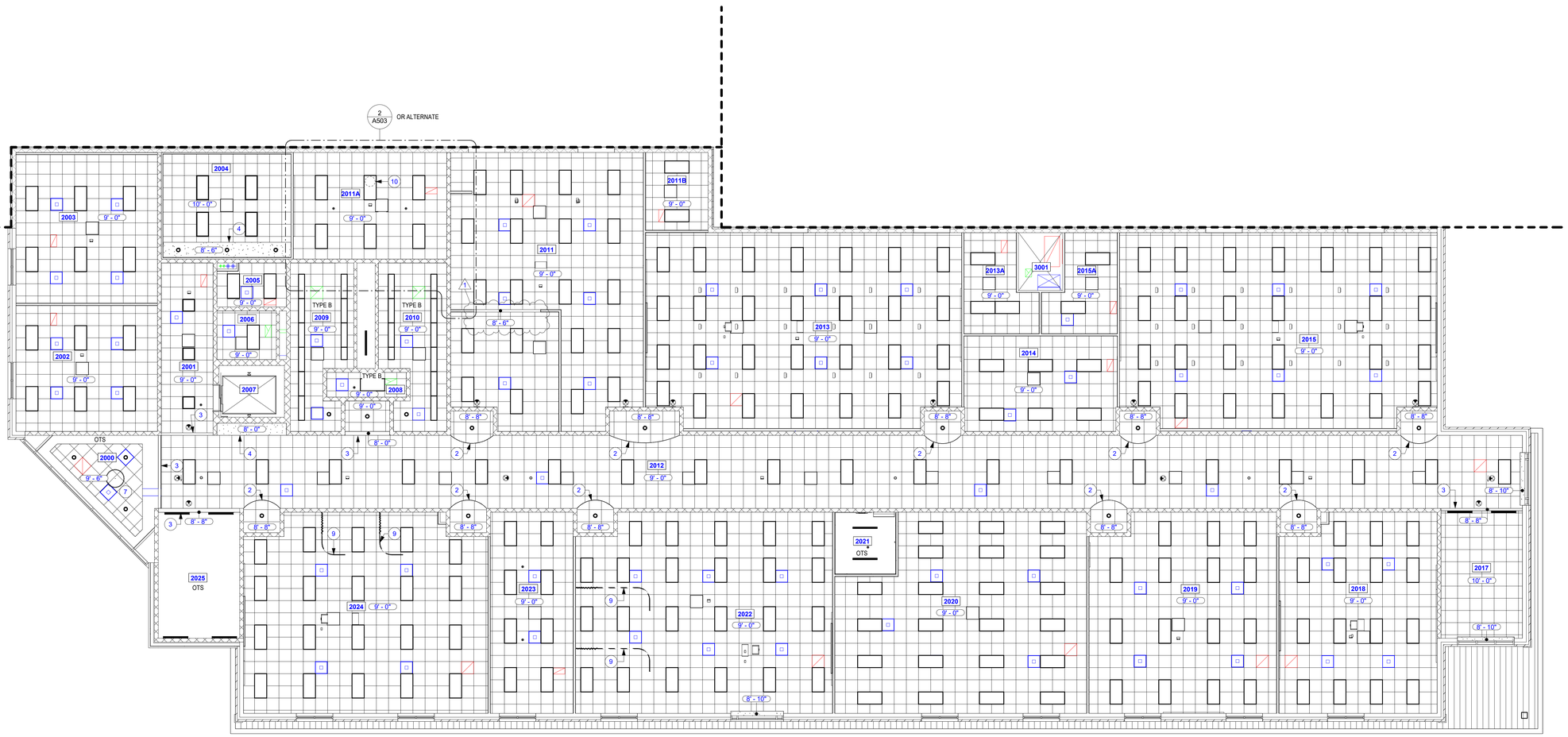
REFLECTED CEILING PLAN LEGEND

REFER TO MECHANICAL, ELECTRICAL AND/OR PLUMBING DRAWINGS FOR SPECIFICATIONS OF ITEMS

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GENERAL REFLECTED CEILING PLAN NOTES

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8. SHALL CONTINUE UP ADJACENT VERTICAL FACES.
9. ALL GAPS BETWEEN WALL MOULD ANGLES & WALL FACE SHALL BE FILLED WITH SEALANT.

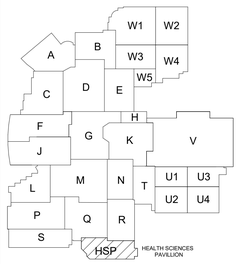


1 **SECOND FLOOR REFLECTED CEILING PLAN - AREA HSP**
A202HSP 1/8" = 1'-0"

REFLECTED CEILING PLAN NOTES

#	KEYNOTE INFORMATION
1	4' x 4' LAY-IN CEILING TILE WITH METAL GRID.
2	COMPASSO TRIM. REFER TO DETAIL 4/A202HSP.
3	GYPSUM BOARD BULKHEAD. REFER TO DETAIL 3/A201HSP.
4	GYPSUM BOARD BULKHEAD. REFER TO DETAIL 4/A201HSP.
5	GYPSUM BOARD BULKHEAD. REFER TO DETAIL 2/A201HSP.
6	GYPSUM BOARD BULKHEAD. REFER TO DETAIL 3/A202HSP.
7	FLOATING CEILING. PAINT EXPOSED DECK ABOVE LIGHT GRAY. REFER TO DETAIL 5/A202HSP.
8	GYPSUM BOARD BULKHEAD. REFER TO WALL SECTION 1/A406.
9	CEILING MOUNTED CUBICLE CURTAIN TRACK. REFER TO DETAIL 5/A201HSP.
10	STRUCTURE ABOVE FOR BOOM. REFER TO STRUCTURAL DRAWINGS.
11	PAINT CEILING AND SOFFIT PT-4.
12	EXISTING LAY-IN CEILING. PATCH AND REPAIR ANY DAMAGED GRID, TILES OR DEVICES WITHIN THIS ROOM.

#	Date	Description
1	10-16-2026	ADDENDUM 1



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(317) 536-8000

Project Name:

Franklin Central High School Health Sciences Pavilion

Drawing Title:

SECOND & THIRD FLOOR REFLECTED CEILING PLAN - AREA HSP

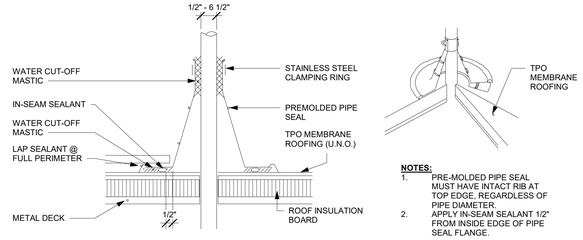
MARY HEATHER HARBERT
No. 11800215
STATE OF INDIANA
REGISTERED ARCHITECT

Client Project No:

VPS Project No: **2025019.00**

Project Issue Date:

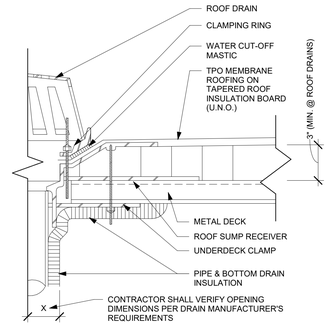
Drawing No: **A202HSP**



NOTES:

1. PRE-MOLDED PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE, REGARDLESS OF PIPE DIAMETER.
2. APPLY IN-SEAM SEALANT 1/2" FROM INSIDE EDGE OF PIPE SEAL FLANGE.

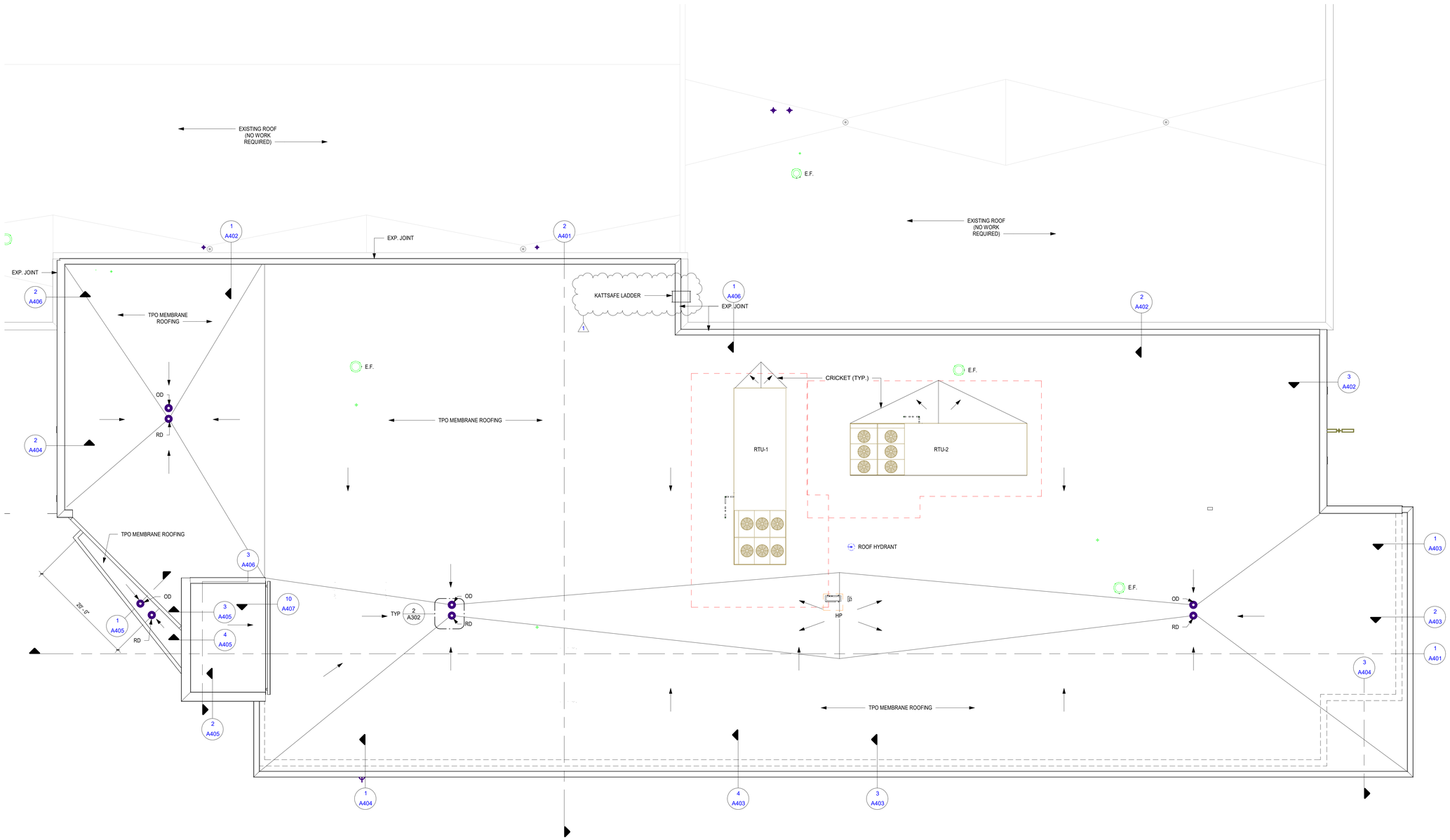
3 / A302 **ROOF VENT DETAIL**
3" = 1'-0"



2 / A302 **ROOF DRAIN DETAIL**
3" = 1'-0"

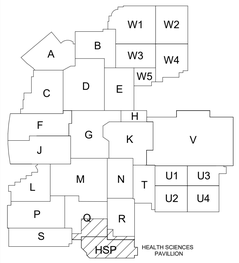
ROOF PLAN LEGEND

RD	ROOF DRAIN, SEE ROOF DRAIN DETAIL
OD	OVERFLOW DRAIN, SEE PLUMBING DRAWINGS
VTR	VENT THRU ROOF, SEE VENT PIPE DETAIL (SEE PLUMBING ROOF PLANS FOR LOCATIONS)
RTU	ROOF TOP UNIT
EF	EXHAUST FAN
HP	HIGH POINT
→	INDICATES DIRECTION OF ROOF SLOPE



1 / A302 **ROOF PLAN**
1/8" = 1'-0"

#	Date	Description
1	10-16-2026	ADDENDUM 1



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Indianapolis, Indiana 46205
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Project Name:

Franklin Central High School Health Sciences Pavilion

Drawing Title:

ROOF PLAN

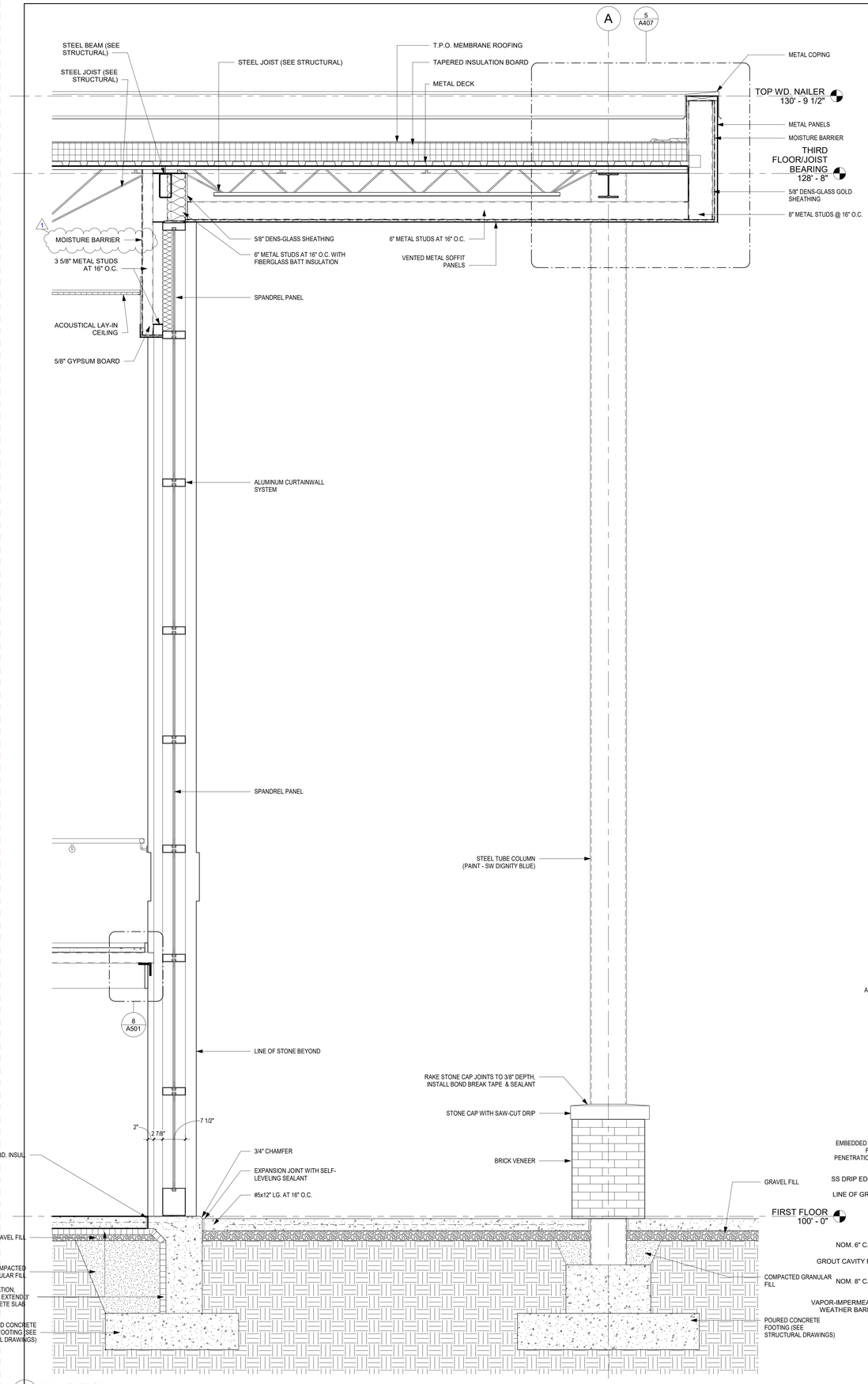
MARY HEATHER HABERT
No. 11800215
STATE OF INDIANA

Client Project No:

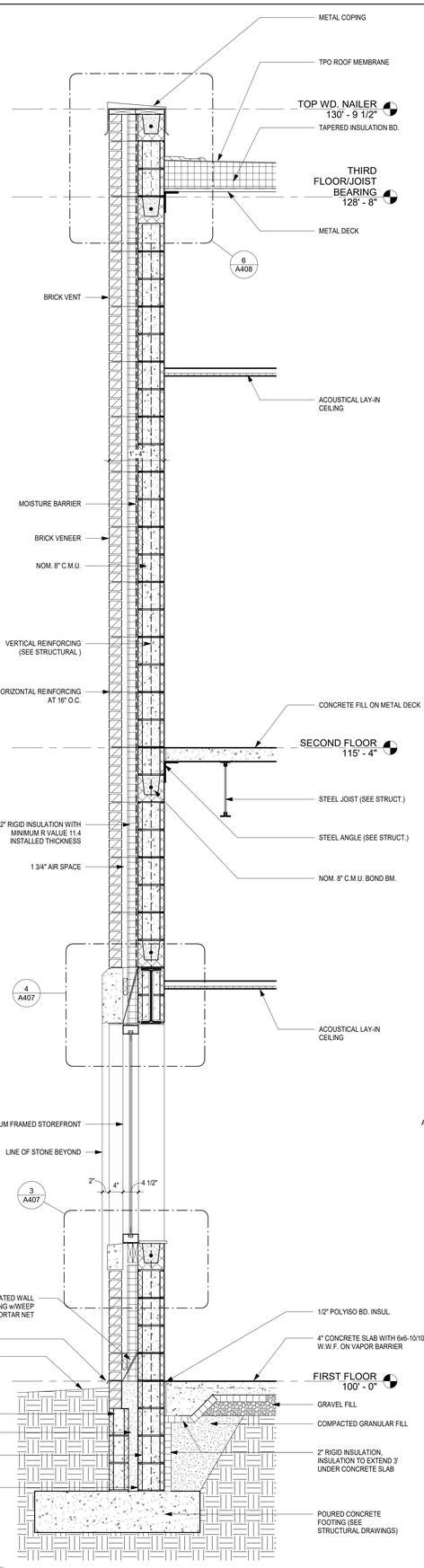
VPS Project No: **2025019.00**

Project Issue Date:

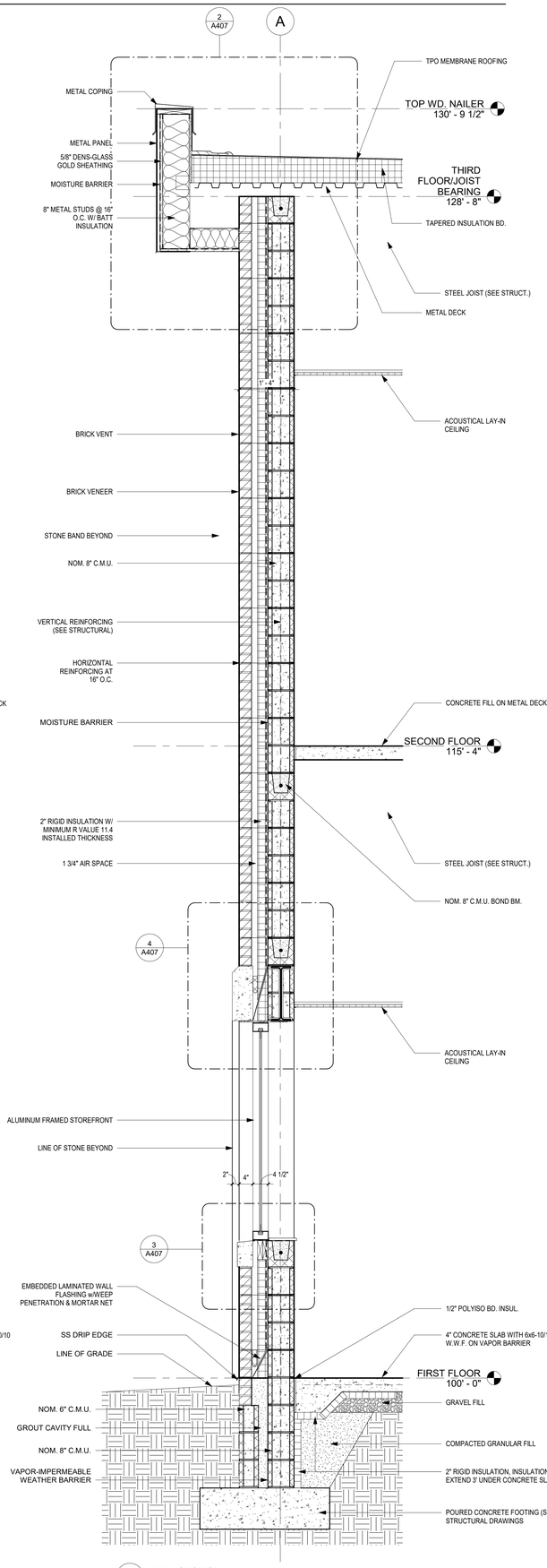
Drawing No: **A302**



3 A404 **WALL SECTION**
3/4" = 1'-0"



2 A404 **WALL SECTION**
3/4" = 1'-0"

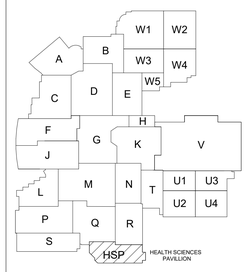


1 A404 **WALL SECTION**
3/4" = 1'-0"

GENERAL PARTITION TYPE NOTES

1. REFER TO LIFE SAFETY PLAN FOR LOCATIONS OF FIRE RATED AND SMOKE PARTITIONS.

#	Date	Description
1	10-16-2026	ADDENDUM 1



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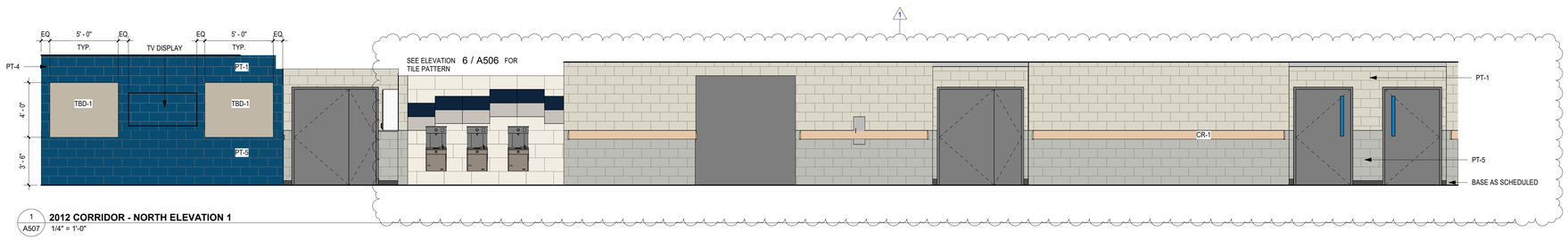
Franklin Central High School Health Sciences Pavilion

Drawing Title:

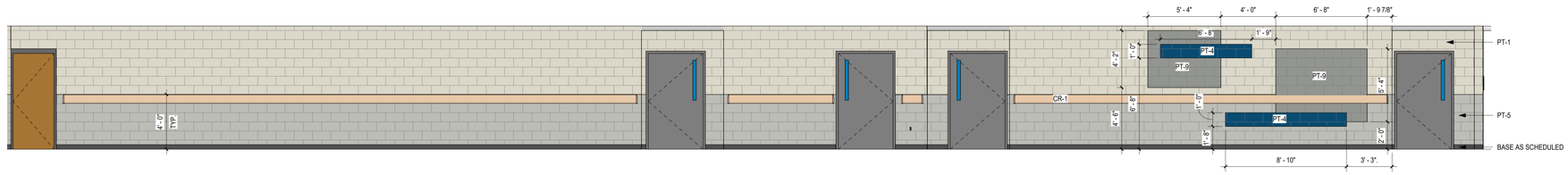
WALL SECTIONS

MARY HEATHER HAMBERT
No. 11800215
STATE OF INDIANA

Client Project No:	
VPS Project No:	2025019.00
Project Issue Date:	
Drawing No:	A404



1 A507 **2012 CORRIDOR - NORTH ELEVATION 1**
1/4" = 1'-0"



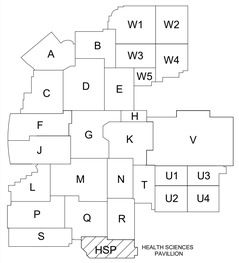
3 A507 **2012 CORRDIOR - SOUTH ELEVATION 1**
1/4" = 1'-0"

4 A507 **2012 CORRIDOR - SOUTH ELEVATION 2**
1/4" = 1'-0"

INTERIOR ELEVATION NOTES

#	KEYNOTE INFORMATION
1	FINISHED BASE. REFER TO FINISH PLAN
2	25" DEEP (UNO) SOLID SURFACE COUNTERTOP WITH SIDE AND BACK SPLASH, AS INDICATED
3	25" DEEP (UNO) EPOXY COUNTERTOP WITH SIDE AND BACK SPLASH WITH INTEGRAL SINK, AS INDICATED
4	24" DEEP (UNO) BASE CABINET; CONFIGURE DOOR(S), DRAWERS(S), AND SHELVE(S) AS INDICATED
5	14" DEEP (UNO) WALL CABINET; CONFIGURE DOOR(S) AND SHELVE(S) AS INDICATED
6	ACCESSIBLE (BARRIER FREE) SINK SKIRT ASSEMBLY
7	FINISHED END
8	COUNTER SUPPORT BRACKET
9	GYPSUM BULKHEAD CONSTRUCTION, REFER TO REFLECTED CEILING PLAN
10	PROVIDE LOCKS WHERE SHOWN
11	FUME HOOD.
12	METAL SUPPORT BRACKET AT 3'-0" O.C. MAXIMUM.
13	24" D. x 72" H. STORAGE CABINET WITH ADJUSTABLE SHELVES AS INDICATED
14	24" D. PLASTIC LAMINATE CUBBIES (30)
15	SURFACE MOUNTED PAPER TOWEL DISPENSER
16	SURFACE MOUNTED SOAP DISPENSER
17	14" D. x 18" H. WALL CABINET; DOUBLE DOORS AS INDICATED
18	30" DEEP COUNTERTOP (6" SPACE BEHIND CABINETS)
19	PLASTIC LAMINATE FINISHED END SUPPORT PANEL.
20	24" D. X 72" H. STORAGE GLASS FRONT CABINET WITH ADJUSTABLE SHELVES AS INDICATED
21	REFER TO ELEVATION 12/A504 FOR TYPICAL DESK ELEVATION NOTES.
22	FIRE EXTINGUISHER WITH FIRE BLANKET.
23	DISPLAY CASE. REFER TO ELEVATION 15/A504.

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Project Name:

Franklin Central High School Health Sciences Pavilion

Drawing Title:

SECOND FLOOR INTERIOR ELEVATIONS

MARY HEATHER HARBERT
STATE OF INDIANA
No. 11800215
REGISTERED ARCHITECT

Client Project No:

VPS Project No: **2025019.00**

Project Issue Date:

Drawing No: **A507**

MATERIAL FINISH SCHEDULE

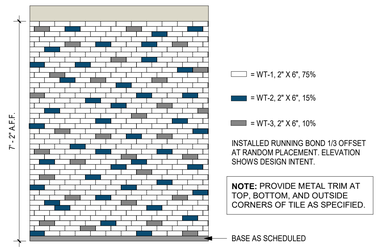
	Symbol	Manufacturer	Color/Style	Comments
Base				
	RB-1	Tarkett (Johnsonite)	Color: 4"; Burnt Umber 63	
	RESB-1	Dur-a-flex	Color: Match height to existing tile base; Hybrid Flex-EQ; Q-28-24	
Carpet Tile				
	CPT-A	Interface	Pattern/ Color: Night Lights, Soft Glow; 107262 Iron Azure; Brick Ashlar installation	
	CPT-B	Interface	Pattern/ Color: Night Lights, Glisten; 107231 Iron; Brick Ashlar installation	
	CPT-C	Interface	Pattern/ Color: Step Repeat; SR799 104918 Midnight; Monolithic installation	
Ceiling Tiles				
	ACT-A	CertainTeed Architectural	Pattern/ Color: Sereno Fine Fissured SFF-454 HNRC/HCACX; White; 24 x 24	
	ACT-B	CertainTeed Architectural	Pattern/ Color: VinylShield A 1102-CRF-1; White; 24 x 24	
	ACT-C	CertainTeed Architectural	Pattern/ Color: Symphony f 1344B-IOF-1; White; 48 x 48	
	-	Armstrong	Color: Prelude Plus XL; White; 15/16"	
	-	USG	Color: Compasso standard; White; height varies	
Cubical Curtain		Arc-Com	Pattern/ Color:Avenue Montaigne AC-33345	1
Doors		Masonite	Finish: Aspiro Series; Red Oak; Plain Sliced; Honey Stain	
		Tubelite	Color: Dark Bronze - DB	
Paint				
	PT-1	Benjamin Moore	Color: Ashwood OC-47	
	PT-2	Sherwin Williams	Color: Tricorn Black SW 6258	
	PT-3	Benjamin Moore	Color: Deep Royal 2061-10	
	PT-4	Sherwin Williams	Color: Dignity Blue SW6804	
	PT-5	Sherwin Williams	Color: Argos SW 7065	
	PT-6	Sherwin Williams	Color: High Reflective White SW 7757	
	PT-7	Sherwin Williams	Color: Dry Erase Clear Gloss Coating; ensure substrate is a true level 5 finish	
	PT-8	Sherwin Williams	Color: Clear Gloss Finish	
	PT-9	Sherwin Williams	Color: Tin Lizzie SW 9163	
	PT-10	Paint on Screen	Color: 3D4K	
Plastic Laminate				
	PL-1	Formica	Color: Burnt Strand 6307-58; matching edgebanding	
	PL-2	Formica	Color: Sea Salt 9529-44; matching edgebanding	
	PL-3	Formica	Color: Blue	
	PL-4	Formica	Color: Crystal White Magnetic Markerboard; M3091	
	PL-5	Formica	Color: Kessington Maple; 10776-60	
Resilient Flooring				
	LVT-A	Interface	Pattern/ Color: Studio Set; A00702 Pewter; Brick Ashlar installation; layout per architect	
	LVT-B	Interface	Pattern/ Color: Studio Set; A00703 Pepper; Brick Ashlar installation; layout per architect	
	LVT-C	Interface	Pattern/ Color: Studio Set; A00720 Royal Blue; Brick Ashlar installation; layout per architect	
	RSTR-1	Tarkett (Johnsonite)	Color: Treads with Integrated Riser and Visually Impaired Accent; Raised Round; Burnt Umber 63	
	RB-1	Tarkett (Johnsonite)	Pattern/ Color: 4" Burnt Umber 63	
Resinous & Epoxy Flooring				
	SC-1	Laticrete	Color: L & M Seal Hard	
	RES-1	Dur-a-flex	Color: Hybrid Flex- EQ; Q-28-24	
	PTD CONC	Sherwin Williams	Color: Light Gray (52)	
Solid Surface				
	SS-1	Formica	Color: Everform; Bianco Mineral 758	
Tack Surface				
	TBD-1	Forbo	Pattern/ Color: Potato Skin 2182	
Tile				
	WT-1	American Olean	Color: Calm #0035; 1/3 Running Bond installation, 2" x 8"	
	WT-2	American Olean	Color: Sapphire Sky #0035; 1/3 Running Bond installation, 2" x 8"	
	WT-3	American Olean	Color: Storm Gray #0040; 1/3 Running Bond installation, 2" x 8"	
	-	Mapei	Color: 5019 Pearl Grey	
	P TILE-1	Crossville	Color: Shades 2.0 12"x24" / Frost	
	P TILE-2	Crossville	Color: Shades 2.0 12"x24" / Mist	
	P TILE-3	Crossville	Color: Shades 2.0 12"x24" / Midnight	
		Mapei	Color: As Specified	
Toilet Partitions				
		ASI	Color: Blue 9509	
Wall Protection				
	CG-1A	Inpro Corporation	Finish:150 High Impact Corner Guard; 4'-0" high; Clam Shell #0154	
	CG-1B	Inpro Corporation	Finish: 160D High Impact End Wall Protector; 4'-0" high; Clam Shell #0154	
	CG-2	CS Specialties	Finish:SSM-20; Snap on cover with 1/4" radius; 4'-0" high; Naval Blue #1586	
	CG-3	Inpro Corporation	Finish:150 High Impact Corner Guard; 4'-0" high; Point Blue #0165	
	CR-1	Inpro Corporation	Finish: 1800 Wall Gaurds / Natural Maple	

NOTE: NOT ALL PAINT COLORS ARE USED ON THIS PROJECT.

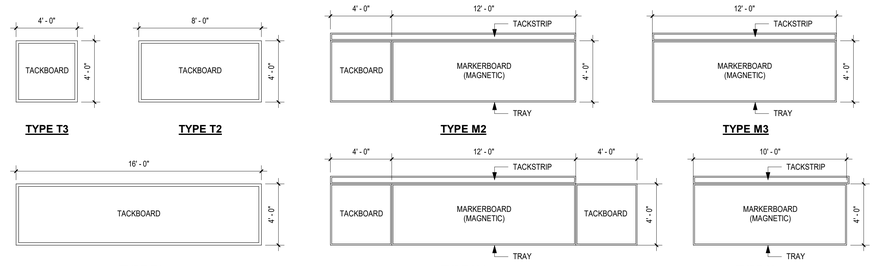




NOTE: INTERIOR RENDERINGS FOR REFERENCE ONLY - REFER TO INTERIOR ELEVATIONS FOR DESIGN INTENT, MATERIALS, AND COLOR.



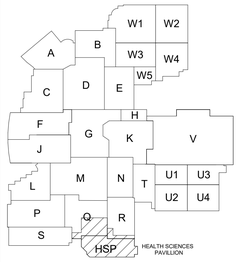
4 / A508 **BATHROOM TILE PATTERN INSTALL**
1/2" = 1'-0"



3 / A508 **MARKERBOARD/TACKBOARD TYPES**
1/4" = 1'-0"

NOTE: VERIFY MOUNTING HEIGHTS IN FIELD. TACKBOARD MATERIALS TO MEET CLASS 'C' FLAME SPREAD.

#	Date	Description
1	10-16-2026	ADDENDUM 1



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TECHNOLOGY:
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1650 E. 49th Street
Indianapolis, Indiana 46205
(317) 536-8000

Project Name:

Franklin Central High School Health Sciences Pavilion

Drawing Title:

MATERIAL FINISH SCHEDULE & INTERIOR RENDERINGS

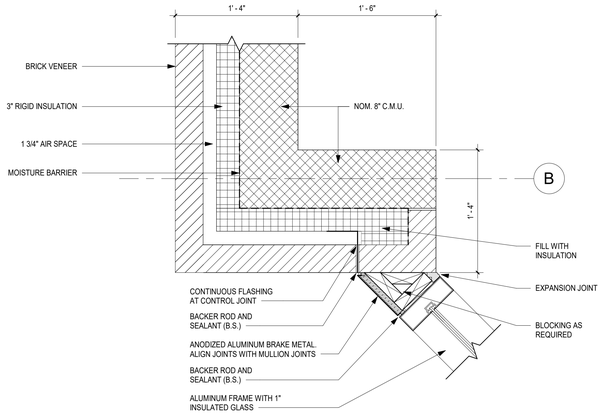


Client Project No:

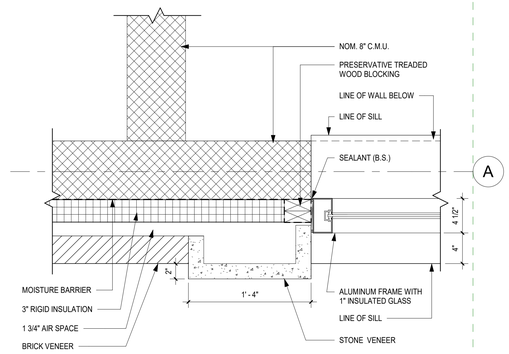
VPS Project No: **2025019.00**

Project Issue Date:

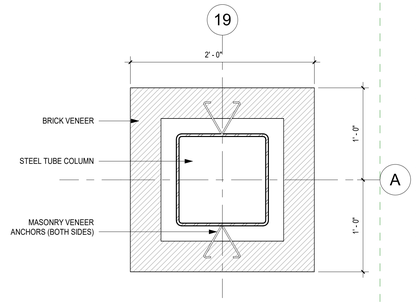
Drawing No: **A508**



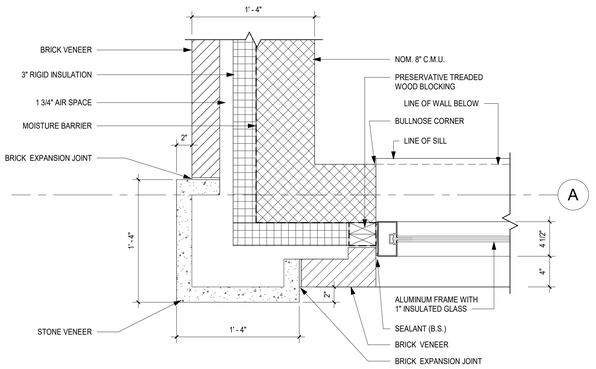
7 A601 **EXTERIOR PLAN DETAIL**
1 1/2" = 1'-0"



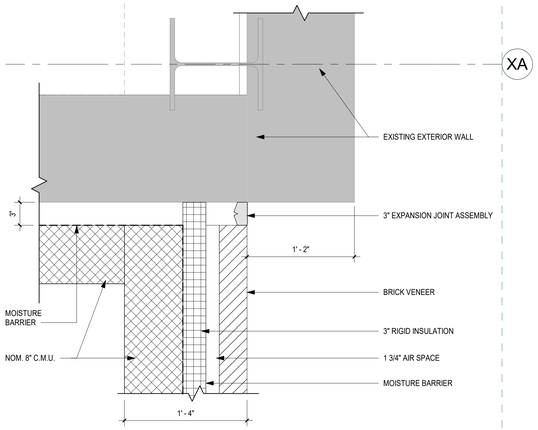
4 A601 **EXTERIOR PLAN DETAIL**
1 1/2" = 1'-0"



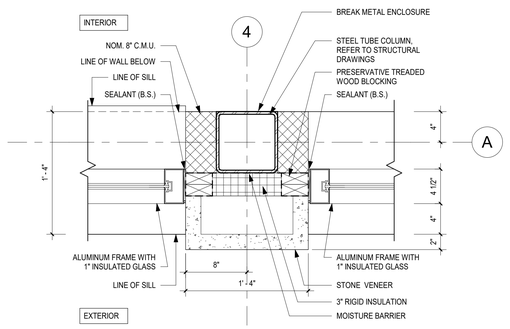
3 A601 **EXTERIOR PLAN DETAIL**
1 1/2" = 1'-0"



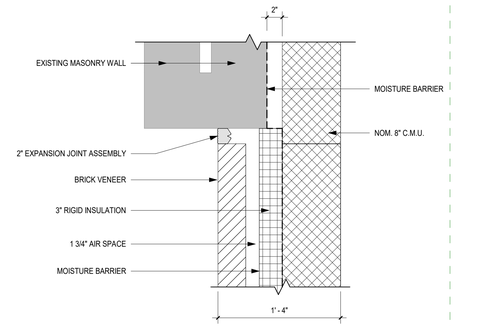
6 A601 **EXTERIOR PLAN DETAIL**
1 1/2" = 1'-0"



2 A601 **EXTERIOR PLAN DETAIL**
1 1/2" = 1'-0"

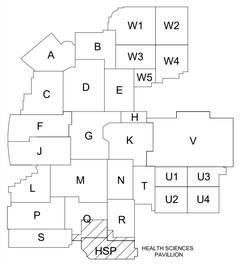


5 A601 **EXTERIOR PLAN DETAIL**
1 1/2" = 1'-0"



1 A601 **EXTERIOR PLAN DETAIL**
1 1/2" = 1'-0"

#	Date	Description
1	10-16-2026	ADDENDUM 1



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(317) 536-8000

Project Name:

Franklin Central High School Health Sciences Pavilion

Drawing Title:

EXTERIOR PLAN DETAILS

MARY HEATHER HARBERT
No. 11800215
STATE OF INDIANA
REGISTERED ARCHITECT

Client Project No:

VPS Project No: **2025019.00**

Project Issue Date:

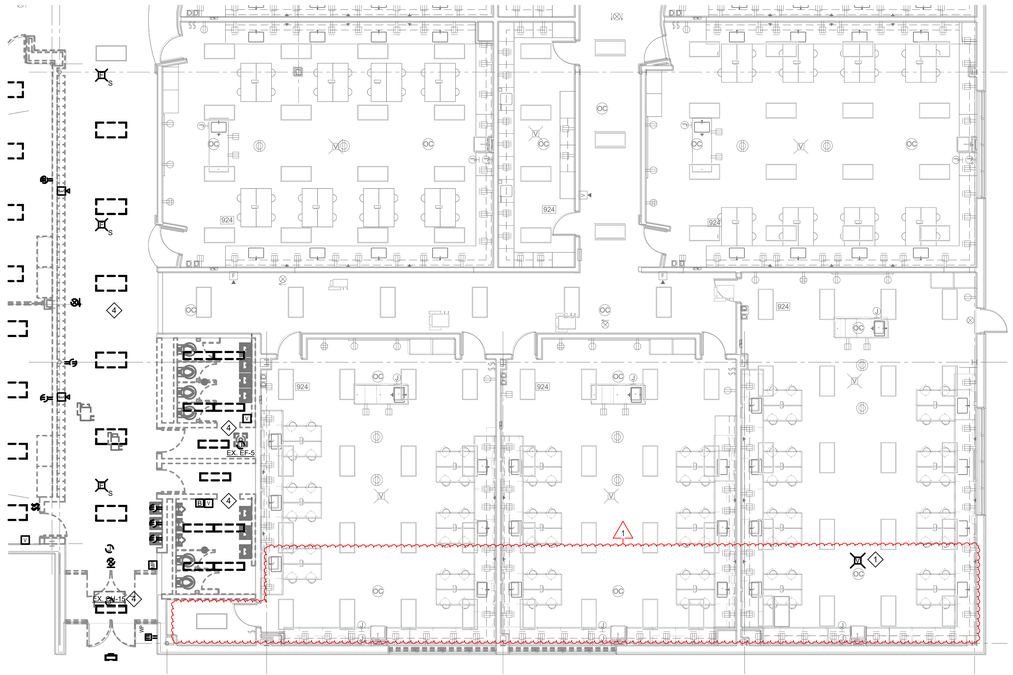
Drawing No: **A601**

GENERAL DEMOLITION NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.
B THIS DRAWING REPRESENTS INFORMATION OBTAINED FROM ORIGINAL CONTRACT DRAWINGS AND FIELD SURVEY. VERIFY BY ON-SITE OBSERVATION THE EXTENT OF WORK PRIOR TO SUBMISSION OF BID.
C CONTRACT DOCUMENTS CONSIST OF BOTH PROJECT MANUAL AND DRAWINGS AND ARE MEANT TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
D THOROUGHLY EXAMINE THE WORK OF OTHER CONTRACTORS AND PROPERLY DEMOLISH ALL WORK REQUIRED FOR THE PROJECT.
E THE OWNER HOLDS RIGHT OF FIRST REFUSAL FOR ALL DEMOLISHED ELECTRICAL EQUIPMENT.
F ALL ELECTRICAL ITEMS SHOWN WITH LIGHT LINEWORK ARE EXISTING TO REMAIN.
G REMOVE ALL ELECTRICAL ITEMS SHOWN WITH BOLD/DASHED LINEWORK COMPLETE.
H COORDINATE AND DISCONNECT ALL ARCHITECTURAL, MECHANICAL, AND PLUMBING EQUIPMENT AS NOTED FOR REMOVAL BY OTHERS. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, RACEWAYS, CONDUCTORS, ETC. SERVING THE EQUIPMENT.
I PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT. REFER TO SPECIFICATIONS.
J PROVIDE A BLANK COVERPLATE FOR ALL EXISTING WALL OPENINGS WHERE ELECTRICAL EQUIPMENT HAS BEEN REMOVED AND NOT REPLACED. IN AREAS RECEIVING NEW WALL TREATMENTS, PATCH THE EXISTING OPENING.
K REFER TO A, M, AND P-SERIES DRAWINGS FOR AREAS WITH ABOVE CEILING WORK AND/OR CEILING REMOVAL. TEMPORARILY SUPPORT ALL ELECTRICAL DEVICES, FIXTURES, ETC. AS REQUIRED. RE-INSTALL ELECTRICAL ITEMS FOLLOWING THE COMPLETION OF WORK IN THE NEW OR EXISTING CEILINGS.
L PROVIDE A COMPLETE FIRE ALARM SYSTEM TEST PRIOR TO DEMOLITION.
M NOT ALL PLAN NOTES ARE USED ON THIS SHEET.

◇ DEMOLITION PLAN NOTES

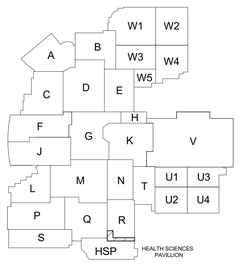
1 TEMPORARY REMOVE CEILING DEVICE FOR REINSTALLATION.
3 DISCONNECT POWER CONNECTION TO VFD. DISCONNECT POWER CONNECTION TO MOTOR. REMOVE LFMC FROM VFD TO AHU. RELOCATE VFD'S. MAINTAIN ELECTRICAL CIRCUITS FOR RECONNECTION. MAINTAIN VFDS FOR RELOCATION.
4 DISCONNECT AND REMOVE ALL WIRING, CONDUIT AND DISCONNECT. REMOVE WIRING BACK TO SOURCE.
5 REMOVE LIGHTING CONTACTORS AND COMPONENTS OF LIGHTING CONTACTORS MADE AVAILABLE FROM DEMOLITION.
6 MAINTAIN PANELBOARD FEEDERS. REMOVE PANELBOARD INTERIORS. MAINTAIN EXISTING LOADS TO REMAIN FOR RECONNECTION.
7 REFER TO SHEET ED700 FOR MORE INFORMATION.
8 REMOVE SITE LIGHTING POLES. REMOVE CONDUIT AND CONDUCTORS COMPLETE. MAINTAIN EXISTING LIGHTING CIRCUITS AND CONTROL TO REMAINING SITE LIGHTING FIXTURES.



1 ELECTRICAL DEMOLITION FIRST FLOOR PLAN - UNIT R
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1	10/16/2026	ADDENDUM 1



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(317) 536-8000

Project Name:

Franklin Central High School Health Sciences Pavilion

Drawing Title:

ELECTRICAL DEMOLITION FIRST FLOOR PLAN - UNIT R

DAVID L. JONES III
REGISTERED
NO.
PE12100175
STATE OF
INDIANA
PROFESSIONAL ENGINEER

Client Project No:

VPS Project No: **2025019.00**

Project Issue Date: **09.16.2026**

Drawing No: **ED102**

GENERAL LIGHTING NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

B COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECT AND INTERIOR DESIGNER.

C PROVIDE LABELS ON ALL EQUIPMENT MODIFIED BY THIS PROJECT. PROVIDE LABELS ON ALL JUNCTION BOXES AND CONDUITS MODIFIED OR PROVIDED BY THIS PROJECT. PROVIDE UPDATED PANELBOARD DIRECTORIES ON ALL PANELBOARDS MODIFIED BY THIS PROJECT.

D NOT ALL PLAN NOTES ARE USED ON THIS SHEET.

◯ LIGHTING PLAN NOTES

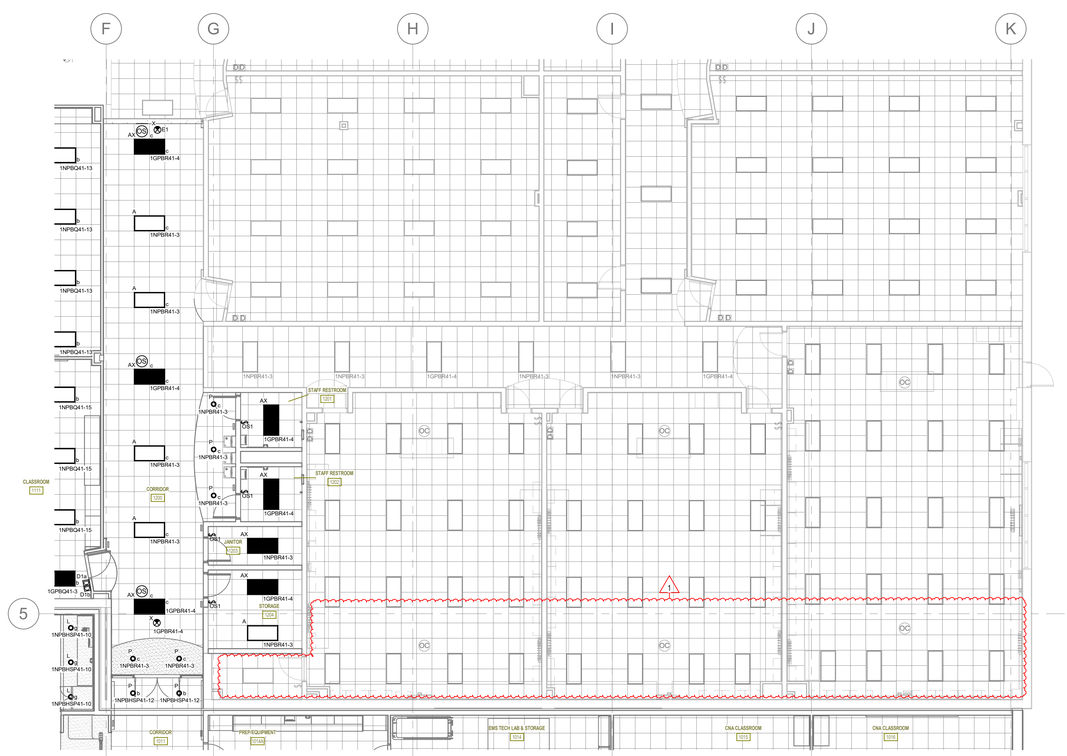
3 INSTALL BOTTOM OF LIGHT FIXTURE WITH ADJACENT CLOUD AT +8'-6". REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.

4 INSTALL BOTTOM OF LIGHT FIXTURE WITH ADJACENT CLOUD AT +9'-0". REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.

5 INSTALL BOTTOM OF LIGHT FIXTURE WITH ADJACENT CLOUD AT +9'-6". REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.

6 INSTALL BOTTOM OF LIGHT FIXTURE WITH ADJACENT CLOUD AT +10'-0". REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.

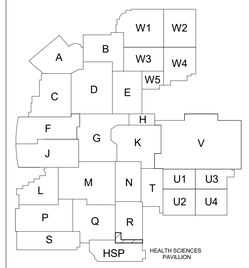
7 PROVIDE DISPLAY CASE LIGHTING. REFER TO ELEVATION DISPLAY CASE LIGHTING AND SECTION DISPLAY CASE LIGHTING FOR INSTALLATION IN THE HORIZONTAL AND VERTICAL ON EACH SIDE. INSTALL LIGHTING TO ILLUMINATE THE SIDES AND BACK OF DISPLAY CASE.



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Design 27
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Indianapolis, Indiana 46205
(317) 536-8000

Project Name:

Franklin Central High School Health Sciences Pavilion

Drawing Title:

ELECTRICAL LIGHTING FIRST FLOOR PLAN - UNIT R

DAVID L. JONES II REGISTERED NO. PE12100175 STATE OF INDIANA PROFESSIONAL ENGINEER

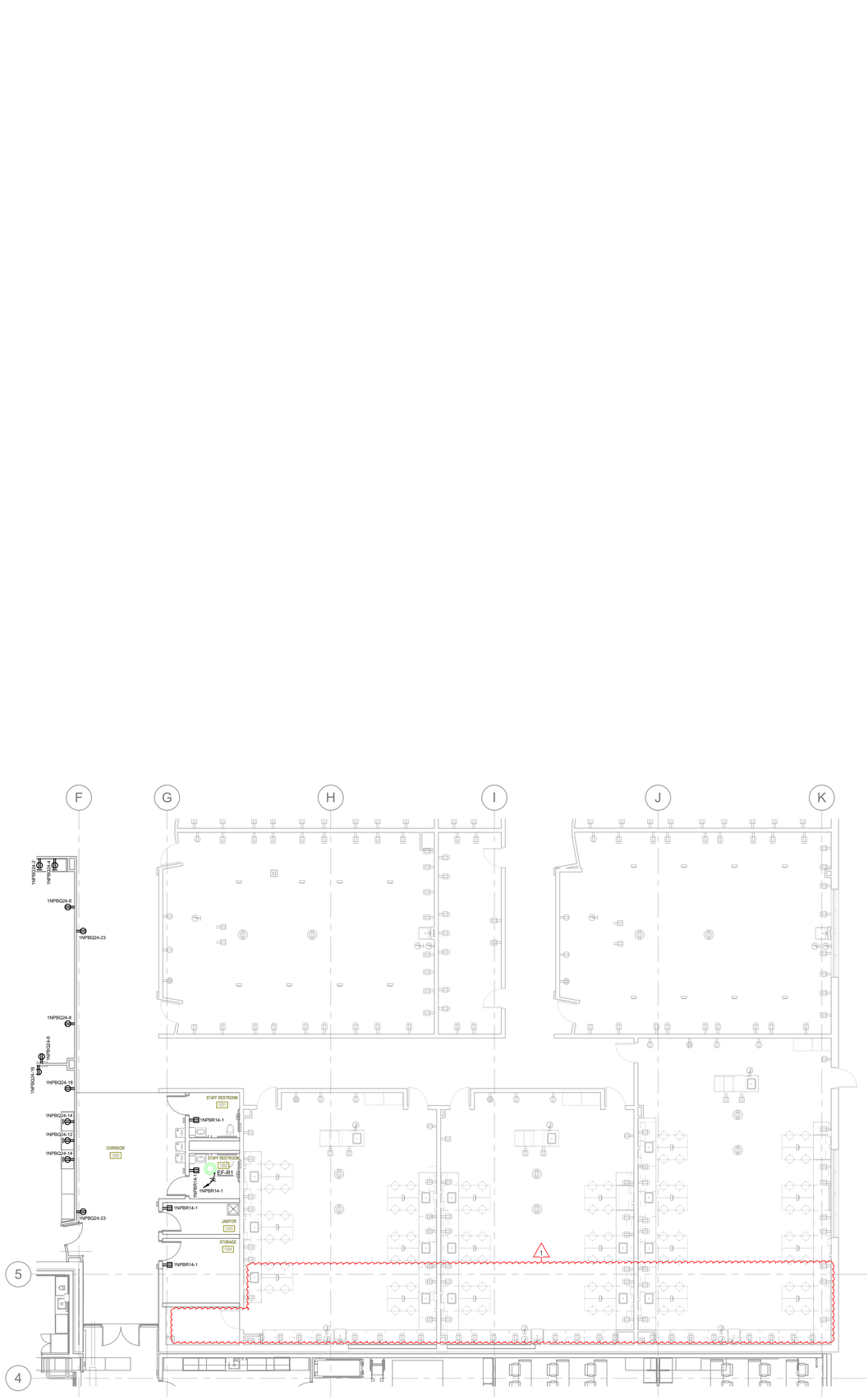
Client Project No:	
VPS Project No:	2025019.00
Project Issue Date:	09.16.2026
Drawing No:	EL102

GENERAL POWER NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.
B PROVIDE A GEAR SUBMITTAL FOR GENERAL APPROVAL PRIOR TO CONDUCTING STUDIES. IMPLEMENT RECOMMENDATIONS TO ELECTRICAL GEAR FOR FINAL APPROVAL AFTER STUDIES ARE COMPLETED AND APPROVED.
C COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECT AND INTERIOR DESIGNER.
D PROVIDE LABELS ON ALL EQUIPMENT MODIFIED BY THIS PROJECT. PROVIDE LABELS ON ALL JUNCTION BOXES AND CONDUITS MODIFIED OR PROVIDED BY THIS PROJECT. PROVIDE UPDATED PANELBOARD DIRECTORIES ON ALL PANELBOARDS MODIFIED BY THIS PROJECT.
E NOT ALL PLAN NOTES ARE USED ON THIS SHEET.

◯ POWER PLAN NOTES

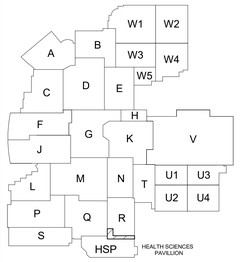
1 REFER TO ELEVATIONS FOR MOUNTING AND CIRCUITING INFORMATION.
2 PROVIDE CEILING MOUNTED RECEPTACLES AND POWER FOR BOOM IN OR. COORDINATE LOCATIONS AND POWER CONNECTIONS.
3 PROVIDE FURNITURE FEED WHIP. COORDINATE EXACT REQUIREMENTS WITH SYSTEMS FURNITURE MANUFACTURER INSTALLATION GUIDELINES.
4 REFER TO TECHNOLOGY DRAWINGS FOR MOUNTING INFORMATION.
5 COORDINATE WITH TECHNOLOGY FOR ADDITIONAL REQUIREMENTS. COORDINATE WITH ARCHITECTURAL FOR FLOOR COVERING REQUIREMENTS. COLOR BY ARCHITECT. PROVIDE FLOOR BOX THAT IS RATED FOR IN-GRADE INSTALLATION.
6 LOCATION OF TEACHERS STATION.
7 PROVE REMOTE GFCI MODULE FOR RECEPTACLE LOCATED BEHIND EQUIPMENT.
8 PROVIDE CORD REEL SIMILAR TO HUBBELL INDUSTRIAL WHITE CORD REEL WITH GFCI MODULE, (2) 20A DUPLEX RECEPTACLES IN YELLOW BOX, AND #12/3 SJO CORD, #HBL45123GF220. PROVIDE PLENUM RATED CORD REEL ENCLOSURE IN WHITE SIMILAR TO HUBBELL #HBLIPRBOX. SUPPORT FROM STRUCTURE ABOVE.
9 POWER CONNECTION TO UNDERCOUNTER AC-1. COORDINATE WITH DIVISION 22 CONTRACTOR.
10 PROVIDE POWER CONNECTION TO GFCI RECEPTACLE FROM MANUFACTURER. COORDINATE ROUTING OF CONDUIT INSIDE OF ROOF CURB. COORDINATE LOCATION OF RECEPTACLE.
11 PROVIDE POWER CONNECTION TO AHU. COORDINATE ROUTING OF CONDUIT INSIDE OF ROOF CURB. COORDINATE LOCATION OF POWER CONNECTION. REFER TO RISER DIAGRAM ON SHEET E-706 FOR MORE INFORMATION.
12 PROVIDE POWER CONNECTION TO EXHAUST FAN. COORDINATE ROUTING OF CONDUIT INSIDE OF ROOF CURB. COORDINATE LOCATION OF POWER CONNECTION.
13 REFER TO SHEET E-706 FOR MORE INFORMATION.
14 PROVIDE POWER CONNECTION AND SWITCH FOR GARBAGE DISPOSAL. COORDINATE POWER CONNECTION WITH DIVISION 22.
15 PROVIDE POWER CONNECTION TO CUH. COORDINATE POWER CONNECTION WITH DIVISION 23.
16 INSTALL EXISTING CORD REEL. CONNECT TO EXISTING POWER CIRCUIT.
17 COORDINATE POWER CONNECTION WITH LAPTOP CHARGER.
18 PROVIDE POWER CONNECTION TO FUME HOOD. PROVIDE POWER CONNECTION TO EXHAUST FAN ON ROOF CONTROLLED BY PILOT LIGHT SWITCH IN FACE OF FUME HOOD. PROVIDE RECEPTACLES IN FACE OF FUME HOOD. ROUTE CONDUITS BEHIND SHROUD AND INSIDE OF FUME HOOD.
19 PROVIDE UNISTRUT RACK TO MOUNT EXISTING VFD'S ON. RECONNECT POWER CONNECTION TO VFD. PROVIDE LFMC WITH SHIELDED ASD CABLE TO AHU MOTOR COMPLETE.
20 PROVIDE CEILING RECEPTACLES AS REQUIRED PER APPROVED SHOP DRAWINGS FOR VIRTUAL LAB. COORDINATE LOCATION OF CEILING MOUNTED RECEPTACLES.
21 PROVIDE POWER CONNECTION TO AHU. COORDINATE ROUTING OF CONDUIT INSIDE OF ROOF CURB. COORDINATE LOCATION OF POWER CONNECTION. REFER TO RISER DIAGRAM ON SHEET E-706 FOR MORE INFORMATION.
22 INDOOR UNIT IS FED FROM OUTDOOR UNIT CU-1 LOCATED ON THE ROOF.
23 MAIN ELECTRICAL GROUNDING SYSTEM BUS. BUS BAR MUST BE CONNECTED TO THE EXISTING MAIN SERVICE GROUND. SEE SCHEMATICS SHEET FOR ADDITIONAL INFORMATION.
24 PROVIDE GROUNDING CONDUCTOR. CONNECT TO EXISTING GROUNDING TRIANGLE.
25 PROVIDE FEEDER TO REPLACED TRANSFORMER. COORDINATE WITH UTILITY COMPANY.
26 PROVIDE SHUNT TRIP ON CIRCUIT BREAKERS FOR ALL ELEVATOR EQUIPMENT.
27 PROVIDE F100 FROM PANELBOARD 1NPBQ41.



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1	10/16/2026	ADDENDUM1



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1650 E. 49th Street
Indianapolis, Indiana 46205
(317) 536-8000

Project Name:

Franklin Central High School Health Sciences Pavilion

Drawing Title:

ELECTRICAL POWER FIRST FLOOR PLAN - UNIT R

DAVID L. JONES III REGISTERED NO. PE12100175 STATE OF INDIANA PROFESSIONAL ENGINEER

Client Project No:

VPS Project No: **2025019.00**

Project Issue Date: **09.16.2026**

Drawing No: **EP102**

GENERAL LIGHT FIXTURE SCHEDULE NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

B PROVIDE VIBRATION DAMPERS FOR ALL ALUMINUM AND STEEL POLES 10'-0" AND ABOVE.

C PROVIDE SELF-DIAGNOSTICS AND SELF-TESTING FOR ALL LIFE SAFETY FIXTURES (EXIT FIXTURES, WALL PACKS, INVERTERS BALLASTS, ETC.)

D PROVIDE 0-10V ELECTRONIC DIMMING DRIVER DOWN TO 10% UNLESS OTHERWISE NOTED.

E PROVIDE A MINIMUM OF ONE CLIP PER SIDE UP TO 4' AND CABLE SUPPORTS FOR EACH LIGHT FIXTURE.

F REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE.

G SUBMITT LIGHTING PER APPROPRIATE SPECIFICATION SECTION.

INTERIOR/EXTERIOR/EMERGENCY & EXIT LIGHT FIXTURES SCHEDULE

LABEL	DESCRIPTION	VOLTAGE	SOURCE TYPE	SOURCE LUMENS	SOURCE WATTS	SOURCE CCT	MOUNTING	LENS/REFLECTOR	CERTIFICATIONS	ACCEPTABLE MANUFACTURERS	LABEL
A	2X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	5,000 LM	40 W	4000 K / 80 CRI	RECESSED	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA CPX DAY-BRITE LIGHTING 2FGX SERIES ENERGY HARNESS	A
AX	2X4 LED FLAT PANEL. 0-10V DIMMING. INTEGRAL BATTERY INVERTER.	120/277 V	LED	5,000 LM	40 W	4000 K / 80 CRI	RECESSED	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA CPX DAY-BRITE LIGHTING 2FGX SERIES ENERGY HARNESS	AX 1
B	2X2 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	4,000 LM	36 W	4000 K / 80 CRI	RECESSED	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA CPX DAY-BRITE LIGHTING 2FGX SERIES ENERGY HARNESS	B
BX	2X2 LED FLAT PANEL. 0-10V DIMMING. INTEGRAL BATTERY INVERTER.	120/277 V	LED	4,000 LM	36 W	4000 K / 80 CRI	RECESSED	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA CPX DAY-BRITE LIGHTING 2FGX SERIES ENERGY HARNESS	BX
C	1X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	2,000 LM	17 W	4000 K / 80 CRI	RECESSED	WHITE FROST ACRYLIC	DLC	METALUX 14FP COLUMBIA CFP14 LITHONIA CPX DAY-BRIGHT LIGHTING 1FGX SERIES ENERGY HARNESS	C
CX	1X4 LED FLAT PANEL. 0-10V DIMMING. INTEGRAL BATTERY INVERTER.	120/277 V	LED	2,000 LM	17 W	4000 K / 80 CRI	RECESSED	WHITE FROST ACRYLIC	DLC	METALUX 14FP COLUMBIA CFP14 LITHONIA CPX DAY-BRIGHT LIGHTING 1FGX SERIES ENERGY HARNESS	CX
D	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120/277 V	LED	5,400 LM	41 W	4000 K / 80 CRI	CABLE MOUNTED TO STRUCTURE	SEMI-FROSTED LENS	DLC	METALUX SNLED COLUMBIA MPS LITHONIA ZL1D	D
DX	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH. INTEGRAL BATTERY INVERTER.	120/277 V	LED	5,400 LM	41 W	3500 K	CHAIN MOUNTED TO STRUCTURE	SEMI-FROSTED LENS	DLC	METALUX SNLED COLUMBIA MPS LITHONIA ZL1D	DX
E	1X2 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	2,000 LM	10 W	4000 K / 80 CRI	RECESSED	WHITE FROST ACRYLIC	DLC	METALUX 14FP COLUMBIA CFP14 LITHONIA CPX DAY-BRIGHT LIGHTING 1FGX SERIES ENERGY HARNESS	E 1
FX	4' LENSED LED LIGHT, STEP DIMMING, INTEGRAL OCCUPANCY SENSOR, FROSTED POLYCARBONATE LENS, WIDE DISTRIBUTION, WHITE FINISH, INTEGRAL BATTERY INVERTER	120/277 V	LED	4,500 LM	40 W	4000 K / 80 CRI	SURFACE MOUNTED	SEMI-FROSTED LENS	N/A	COLUMBIS LIGHTING ESL SERIES	FX
G	2X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	11,400 LM	109 W	4000 K / 80 CRI	RECESSED	WHITE FROST ACRYLIC	DLC	KURTZON LIGHTING MEDICAL OPERATING ROOM SERIES	G
GX	2X4 LED FLAT PANEL. 0-10V DIMMING. INTEGRAL BATTERY INVERTER.	120/277 V	LED	11,400 LM	109 W	4000 K / 80 CRI	RECESSED	WHITE FROST ACRYLIC	DLC	KURTZON LIGHTING MEDICAL OPERATING ROOM SERIES	GX
H	6" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING.	120/277 V	LED	3,000 LM	34 W	4000 K / 80 CRI	RECESSED	DIFFUSE IMPACT RESISTANT POLYCARBONATE LENS	N/A	PORTFOLIO LD6B PRESCOLITE LTR-6RD LITHONIA LDN6	H
JX	LED WALL LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. DARK BRONZE FINISH. U.L. LISTED FOR WET LOCATIONS. 2X4 LED FLAT PANEL. 0-10V DIMMING. INTEGRAL BATTERY INVERTER.	120/277 V	LED	5,500 LM	50 W	4000 K	WALL MOUNTED	TYPE III DISTRIBUTION	N/A	MCGRAW-EDISON ISS SPAULDING QSP LITHONIA WSQ	JX
K	36" DIA. EXTRUDED ALUMINUM CIRCULAR LED PENDANT, AIR CRAFT CABLE MOUNTING, DIRECT LED PENDANT, COLOR BY ARCHITECT, 0-10V DIMMING TO 1%	120/277 V	LED	5,100 LM	80 W	4000 K 80 CRI	AIRCRAFT CABLE	FLAT WHITE ACRYLIC LENS	N/A	CAMMAN P1022 EUREKA 4800 FINELITE HP-2 C	K
L	6" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING.	120/277 V	LED	2,000 LM	23 W	4000 K / 80 CRI	RECESSED	DIFFUSE IMPACT RESISTANT POLYCARBONATE LENS	N/A	PORTFOLIO LD6B PRESCOLITE LTR-6RD LITHONIA LDN6	L
LX	6" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING.	120/277 V	LED	2,000 LM	23 W	4000 K / 80 CRI	RECESSED	DIFFUSE IMPACT RESISTANT POLYCARBONATE LENS	N/A	PORTFOLIO LD6B PRESCOLITE LTR-6RD LITHONIA LDN6	LX
LX	6" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING. 2X4 LED FLAT PANEL. 0-10V DIMMING. INTEGRAL BATTERY INVERTER.	120/277 V	LED	2,000 LM	23 W	4000 K / 80 CRI	RECESSED	DIFFUSE IMPACT RESISTANT POLYCARBONATE LENS	N/A	PORTFOLIO LD6B PRESCOLITE LTR-6RD LITHONIA LDN6	LX
M	2X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	3,000 LM	25 W	4000 K / 80 CRI	RECESSED	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA CPX DAY-BRITE LIGHTING 2FGX SERIES ENERGY HARNESS	M
MX	2X4 LED FLAT PANEL. 0-10V DIMMING.2X4 LED FLAT PANEL. 0-10V DIMMING. INTEGRAL BATTERY INVERTER.	120/277 V	LED	3,000 LM	25 W	4000 K / 80 CRI	RECESSED	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA CPX DAY-BRITE LIGHTING 2FGX SERIES ENERGY HARNESS	MX 1
NX	6" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING. INTEGRAL BATTERY INVERTER.	120/277 V	LED	1,000 LM	23 W	4000 K / 80 CRI	RECESSED IN CEILING	DIFFUSE IMPACT RESISTANT POLYCARBONATE LENS	N/A	PORTFOLIO LD6B PRESCOLITE LTR-6RD LITHONIA LDN6	NX
P	6" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING.	120/277 V	LED	1,000 LM	10 W	4000 K / 80 CRI	RECESSED	DIFFUSE IMPACT RESISTANT POLYCARBONATE LENS	N/A	HALO COMMERCIAL PRESCOLITE LTR-6RD LITHONIA LDN6	P
PX	6" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING, INTEGRAL BATTERY INVERTER	120/277 V	LED	1,000 LM	10 W	4000 K / 80 CRI	RECESSED	DIFFUSE IMPACT RESISTANT POLYCARBONATE LENS	N/A	HALO COMMERCIAL PRESCOLITE LTR-6RD LITHONIA LDN6	PX
Q	8" LED CYLINDER, BLACK FINISH, MEDIUM DISTRIBUTION	120/277 V	LED	12,000 LM	120 W	4000 K / 80 CRI	AIRCRAFT CABLE	SEMI-SPECULAR CLEAR	N/A	PORTFOLIO LSR8B PRESCOLITE MC10LED	Q
QX	8" LED CYLINDER, BLACK FINISH, MEDIUM DISTRIBUTION, INTEGRAL BATTERY INVERTER	120/277 V	LED	12,000 LM	120 W	4000 K / 80 CRI	AIRCRAFT CABLE	SEMI-SPECULAR CLEAR	N/A	PORTFOLIO LSR8B PRESCOLITE MC10LED	QX
X	LED EXIT LIGHT, WHITE POLYCARBONATE HOUSING, FACES AND ARROWS PER PLANS, 90 MINUTE EMERGENCY BATTERY	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	SURE-LITES LPX DUAL-LITE EVE LITHONIA LQM	X
ZG	WALL WASH UPLIGHT, ALUMINUM CHANNEL, COLOR BY ARCHITECT	120/277 V	LED	500LM / FT	100 W	4000 K / 80 CRI	SURFACE	FLAT WHITE ACRYLIC LENS	DLC	BEAMEVER ALTA TAPE WITH SURFACE CHANNEL KLUS DESIGN LED STRIP LUMINII BARA SURFACE OMNI NEO 3	ZG

LIGHTING CONTACTORS SCHEDULE

LABEL	EQUIPMENT RATINGS VOLTAGE	AMPERAGE	POLES	NEMA ENCL	ACCESSORIES	COIL CIRCUIT VOLTAGE	PANEL	CIRCUIT	CONTROL	CIRCUIT(S) CONTROLLED	REMARKS
LC-1	600 V	30 A	4	NEMA 1	H-O-A PILOT LIGHT	120 V	1GPBHSP21	1	PHOTOCELL LOCATED ON ROOF	1GPBHSP41-31	

LOW-VOLTAGE DISTRIBUTION TRANSFORMERS SCHEDULE

LABEL	EQUIPMENT SERVED	EQUIPMENT RATINGS KVA	PHASE	TYPE	MOUNT	NEMA ENCL	VOLTAGE PRIMARY	VOLTAGE SECONDARY	CONNECTION PRIMARY	CONNECTION SECONDARY	FEEDER SIZES PRIMARY	FEEDER SIZES SECONDARY	GROUNDING / BONDING GEC	GROUNDING / BONDING SBJ / SSBJ	REMARKS
1GXRHSP21	1GPBHSP21	45	3	DRY	FLOOR	2	480 V	208Y/120	DELTA	WYE	F70	F125	1#4GND, 1"C	1#4GND, 1"C	
1GXRQ41	1GPBQ21	30	3	DRY	FLOOR	2	480 V	208Y/120	DELTA	WYE	F60	F125	1#6GND, 1"C	1#6GND, 1"C	
1NXRHSP21	1NPBHSP21, 1NPBHSP22	150	3	DRY	FLOOR	2	480 V	208Y/120	DELTA	WYE	F150	F200	1#2/0GND, 1"C	1#2/0GND, 1"C	
1NXRHSP22	1NPBHSP23, 1NPBHSP24	150	3	DRY	FLOOR	2	480 V	208Y/120	DELTA	WYE	F150	F200	1#2/0GND, 1"C	1#2/0GND, 1"C	
T2		45	3	DRY	FLOOR	2	480 V	208Y/120	DELTA	WYE	F400	F800	1#4GND, 1"C	1#4GND, 1"C	

ENCLOSED SWITCHES & CIRCUIT BREAKERS SCHEDULE

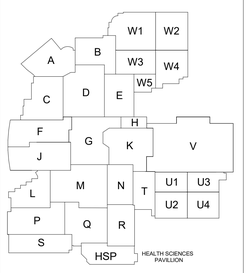
LABEL	EQUIPMENT SERVED	EQUIPMENT RATINGS VOLTAGE	POLES	AMPERAGE	FUSED	FUSE SIZE	NEMA ENCL	ACCESSORIES AUX. CONTACTS	ACCESSORIES SOLID NEUTRAL	REMARKS
DS-1	ELEVATOR MOTOR	600 V	3	200 A	Yes	200A	1	(1) N.O. / N.C.	No	
DS-2	ELEVATOR LIGHTS	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-3	ELEVATOR HVAC	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-4	B-1	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-5	B-2	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-6	CU-1	240 V	2	30 A	Yes	30A	3R	(1) N.O. / N.C.	No	
DS-7	SS-1	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	No	

ENCLOSED & VARIABLE-FREQUENCY MOTOR CONTROLLERS SCHEDULE

LABEL	EQUIPMENT SERVED	EQUIPMENT RATINGS VOLTAGE	PHASE	HP	FLA	NEMA ENCL	STARTER TYPE	STARTER NEMA SIZE	DISCONNECT SWITCH TYPE	DISCONNECT SWITCH FUSE SIZE	REMOTE CAPACITOR	REMARKS
		480 V	3	7.5	11.0 A	1	VFD	-	FUSIBLE	PER MFG	-	PROVIDED BY DIVISION 23. INSTALLED BY DIVISION 26.
MS-1	BP-1	480 V	3	1-1/2	3.0 A	1	FVNR	1	FUSIBLE	5.6	-	
MS-2	BP-2	480 V	3	1-1/2	3.0 A	1	FVNR	1	FUSIBLE	5.6	-	
MS-3	EF-2	120 V	1	1/2	9.8 A	1	FVNR	1	FUSIBLE	15	-	
MS-4	EF-3	120 V	1	1/4	5.8 A	1	FVNR	1	FUSIBLE	9	-	
MS-5	EF-1	120 V	1	1/2	9.8 A	1	FVNR	1	FUSIBLE	15	-	
VFD-1	P-1	480 V	3	5	7.6 A	1	VFD	-	FUSIBLE	PER MFG	-	PROVIDED BY DIVISION 23. INSTALLED BY DIVISION 26.
VFD-2	P-2	480 V	3	5	7.6 A	1	VFD	-	FUSIBLE	PER MFG	-	PROVIDED BY DIVISION 23. INSTALLED BY DIVISION 26.

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1	10/16/2026	ADDENDUM1



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(317) 536-8000

Project Name:

Franklin Central High School Health Sciences Pavilion

Drawing Title:

ELECTRICAL LIGHTING AND EQUIPMENT SCHEDULES

DAVID L. JONES III REGISTERED NO. PE12100175 STATE OF INDIANA PROFESSIONAL ENGINEER

Client Project No:

VPS Project No: **2025019.00**

Project Issue Date: **09.16.2026**

Drawing No: **E-601**

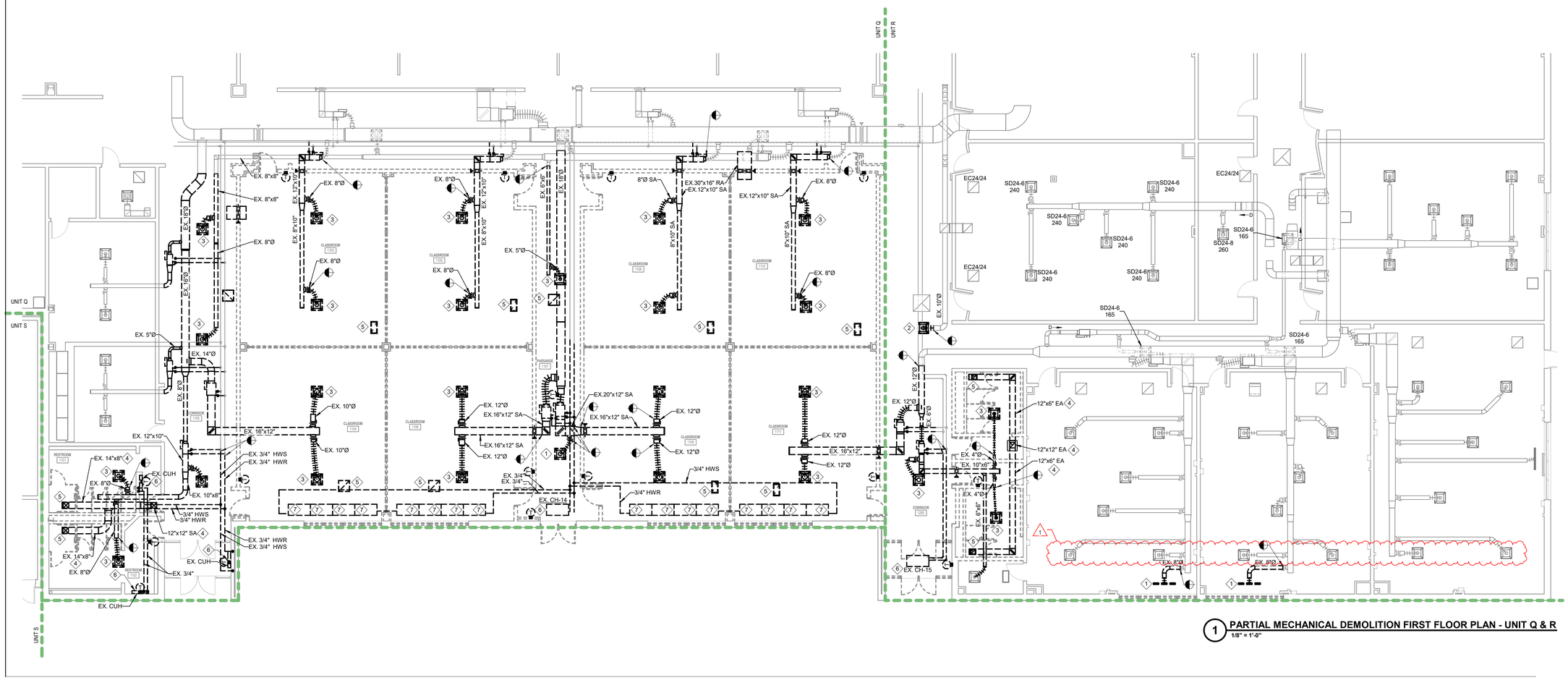
GENERAL DEMOLITION NOTES

A DARK DASHED LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES DEMOLISHED COMPLETE. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING AND DEMOLITION. CONTRACTOR TO INCLUDE ALL COST TO REMOVE ITEMS MADE OBSOLETE DUE TO NEW HVAC WORK.

B LIGHT SOLID LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES TO REMAIN AS-IS. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO DEMOLITION AND BIDDING.

◇ DEMOLITION HVAC PLAN NOTES

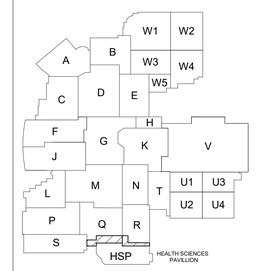
1 REMOVE DIFFUSER AND DUCT COMPLETE TO POINT INDICATED. CAP DUCT AT DAMPER.
2 REMOVE DIFFUSER FROM EXISTING CEILING GRID. PROTECT AND HANG TEMPORARILY DURING OTHER TRADES WORK. REINSTALL DIFFUSER IN NEW CEILING GRID.
3 REMOVE DIFFUSER AND DUCT COMPLETE TO POINT INDICATED. CAP DUCT AT DAMPER.
4 REMOVE DUCT AND DIFFUSER COMPLETE TO EXHAUST FAN ON ROOF.
5 REMOVE GRILLE COMPLETE.
6 REMOVE EXISTING CUH, PIPING, TEMPERATURE SENSOR AND ASSOCIATED WIRING COMPLETE. VALVE AND CAP PIPING AT POINT INDICATED ON PLAN.
7 REMOVE RADIANT PANEL AND ASSOCIATED PIPING COMPLETE TO POINT INDICATED.
8 REMOVE EXHAUST FAN AND CURB COMPLETE.



1 PARTIAL MECHANICAL DEMOLITION FIRST FLOOR PLAN - UNIT Q & R
1/8" = 1'-0"

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1	10/16/2026	Addendum #1



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(317) 536-8000

Project Name:
Franklin Central High School Health Sciences Pavilion

Drawing Title:
PARTIAL MECHANICAL DEMOLITION FIRST FLOOR PLAN - UNIT Q & R

GABRIEL S. CUBILLER REGISTERED NO. PE10808972 STATE OF INDIANA PROFESSIONAL ENGINEER

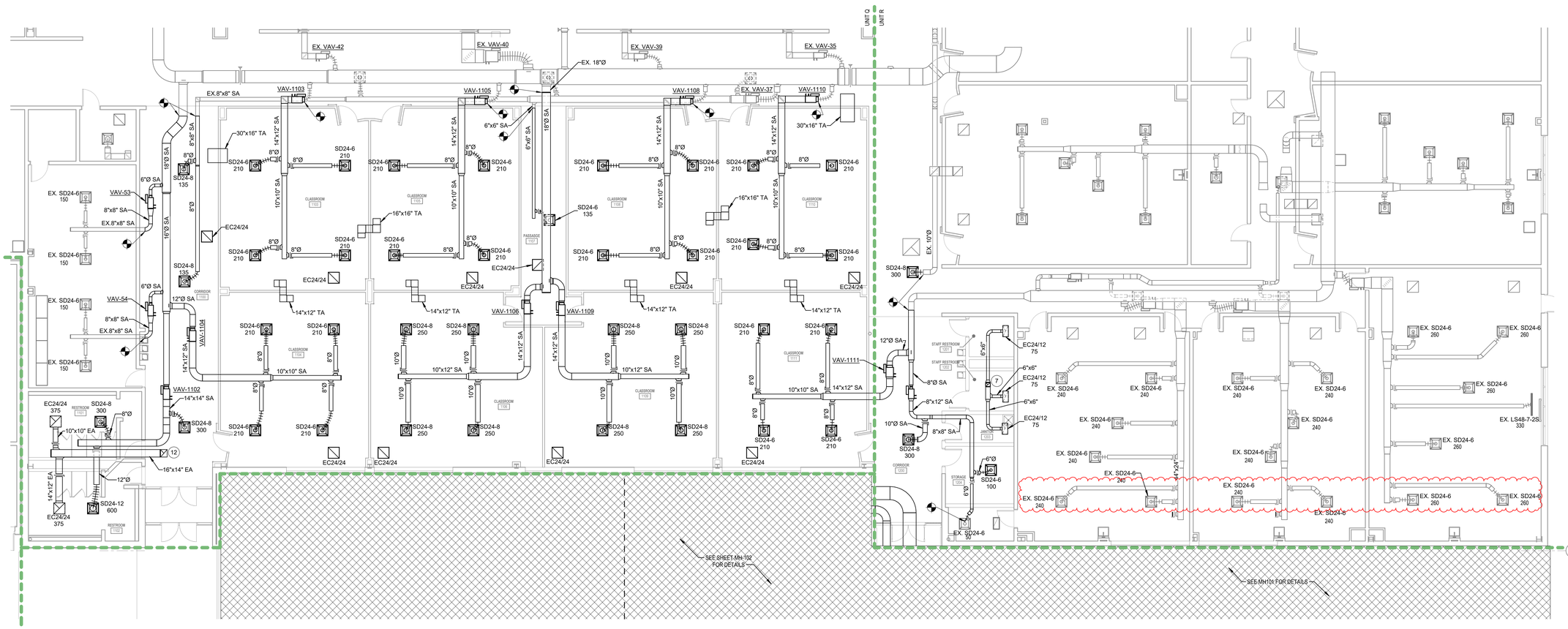
Client Project No:
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Project Issue Date: **09.16.2026**
Drawing No: **MD101**

GENERAL MECHANICAL NOTES

A DARK LINES INDICATE NEW WORK.
B LIGHT SOLID LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES TO REMAIN AS-IS. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING.
C MARK ALL LOCATIONS OF MECHANICAL EQUIPMENT ABOVE CEILING WITH ENGRAVED PLASTIC TAGS ON CEILING GRID BELOW.
D ALL SUPPLY DUCTS TO A SINGLE GRILLE OR DIFFUSER SHALL HAVE A BALANCING DAMPER INSTALLED.

MECHANICAL HVAC PLAN NOTES

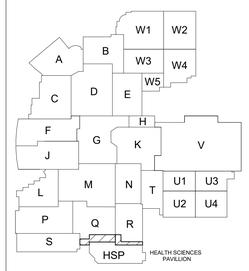
1 4" FLUE AND 6" COMBUSTION AIR UP INTO CHASE ABOVE.
2 PROVIDE DOUBLE WALL DUCT FOR ALL DUCTS INSIDE DASHED LINE. PROVIDE PAINT GRIP FINISH SHEET METAL. PAINT DUCT, FINAL COLOR BY ARCHITECT.
3 44"x24" SUPPLY AND 16"x12" EXHAUST DUCT UP.
4 60"x30" RETURN DUCT UP.
5 PROVIDE BALANCE DAMPER IN VERTICAL.
6 BASE BID PROVIDE 450 CFM AIR TERMINAL BOX, ALTERNATE PROVIDE 600 CFM AIR TERMINAL BOX. SEE SCHEDULE FOR DETAILS.
7 10"x8" EXHAUST DUCT UP TO EF-R1 ON ROOF.
8 48"x38" RETURN DUCT UP TO RTU-57 ON ROOF. TRANSITION DUCT TO RTU AS REQUIRED..
9 44"x22" SUPPLY DUCT UP TO RTU-57 ON ROOF. TRANSITION DUCT TO RTU AS REQUIRED..
10 44"x24" SUPPLY DUCT UP TO RTU-58 ON ROOF. TRANSITION DUCT TO RTU AS REQUIRED..
11 48"x38" RETURN DUCT UP TO RTU-58 ON ROOF. TRANSITION DUCT TO RTU AS REQUIRED..
12 46"x44" EXHAUST DUCT UP TO EF-Q1 ON ROOF. TRANSITION DUCT TO FAN OPENING AS REQUIRED.
13 NOT USED.
14 16"x12" EXHAUST DUCT UP TO EXHAUST FAN ON ROOF. TRANSITION DUCT TO EXHAUST FAN AS REQUIRED.
15 MOUNT GRILLES INTO VERTICAL OF BULKHEAD
16 4" FLUE AND 6" CA UP AND DOWN IN CHASE.
17 14"Ø EA DOWN TO FUME HOOD AND UP TO EF-3 ON ROOF. TRANSITION DUCT TO FAN AS REQUIRED. PROVIDE PVC COATED



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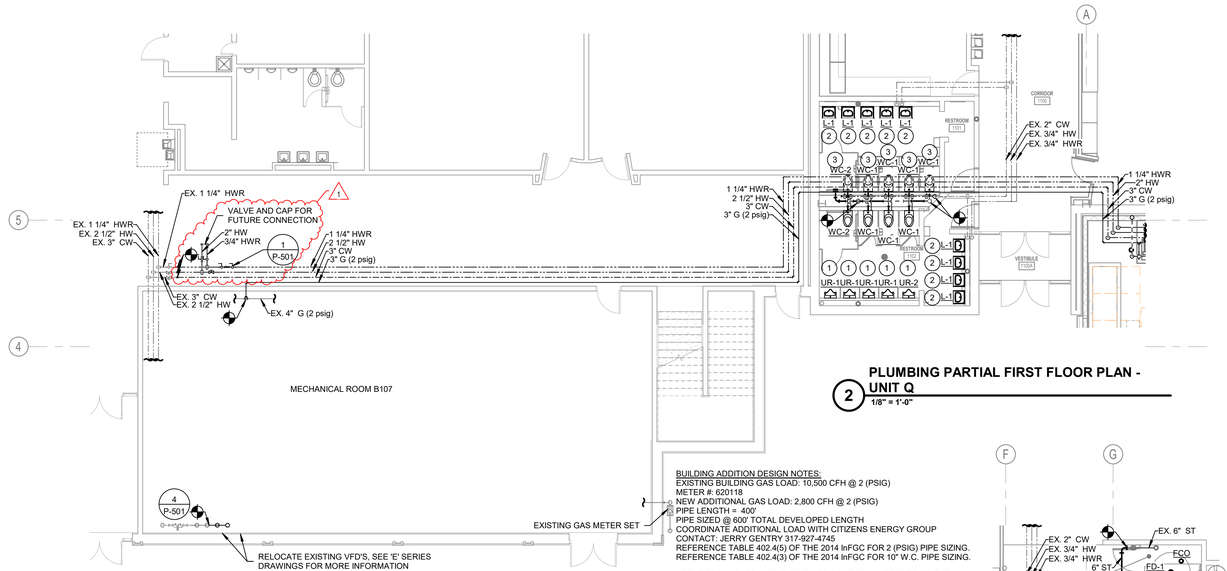
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MECHANICAL HVAC FIRST FLOOR PLAN - UNT Q & R

GABRIEL S. CURRIER REGISTERED NO. PE10808972 STATE OF INDIANA PROFESSIONAL ENGINEER

Client Project No:
VPS Project No: **2025019.00**
Project Issue Date: **09.16.2026**
Drawing No: **MH101**

PLUMBING PLAN NOTES

1 INSTALL NEW URINAL AND FLUSH VALVE COMPLETE. CONNECT NEW URINAL TO EXISTING WASTE, WATER, VENT AND CARRIER.
2 INSTALL NEW LAVATORY AND FAUCET COMPLETE. CONNECT NEW LAVATORY AND FAUCET TO EXISTING WASTE, WATER, VENT AND CARRIER.
3 INSTALL NEW WATER CLOSET AND FLUSH VALVE COMPLETE. CONNECT NEW WATER CLOSET TO EXISTING WASTE, WATER, VENT AND CARRIER.
4 GAS REGULATOR - 2 (PSIG) TO 10" W.C. @ 600 CFH. SEE DETAIL 1/P-501. ROUTE PRESSURE REGULATOR VENT THROUGH ROOF. SIZE PER MANUFACTURERS RECOMMENDATIONS.
5 SEE 'M' SERIES DRAWINGS FOR PIPE CONTINUATION.
6 ROUTE 3" ST PIPING TO DOWNSPOUT AND CONNECT COMPLETE.
7 INSTALL DOMESTIC WATER, VENT, AND WASTE PIPING FOR SINK IN BASE BID. PLUMBING FIXTURE (SK-8) IS BID ALTERNATE.
8 EXISTING 4" STORM RISER TO REMAIN UNDISTURBED.
9 REFER TO HEADWALL MANUFACTURER FOR FINAL CONNECTION.



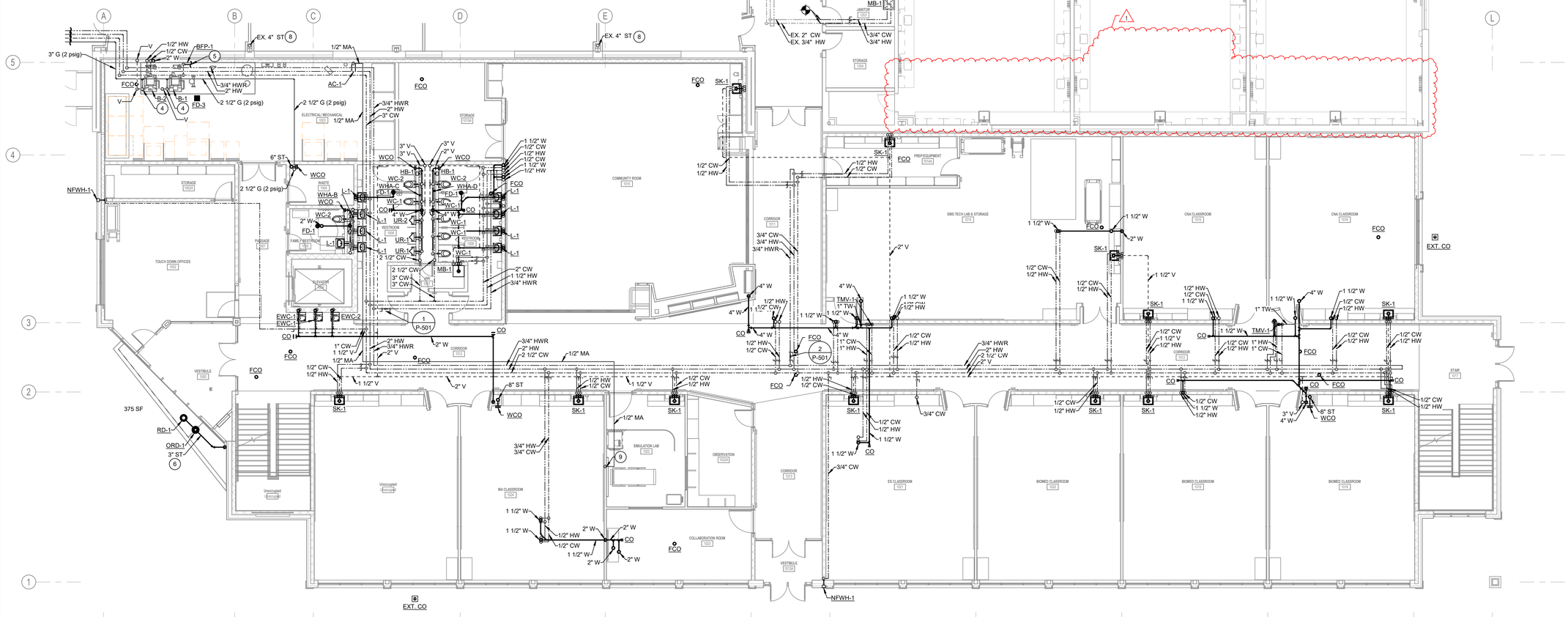
2 PLUMBING PARTIAL FIRST FLOOR PLAN - UNIT Q
1/8" = 1'-0"

BUILDING ADDITION DESIGN NOTES:
EXISTING BUILDING GAS LOAD: 10,500 CFH @ 2 (PSIG)
METER #: 620118
NEW ADDITIONAL GAS LOAD: 2,800 CFH @ 2 (PSIG)
PIPE LENGTH = 400'
PIPE SIZED @ 600' TOTAL DEVELOPED LENGTH
COORDINATE ADDITIONAL LOAD WITH CITIZENS ENERGY GROUP CONTACT: JERRY GENTRY 317-927-4745
REFERENCE TABLE 402.4(5) OF THE 2014 InFGC FOR 2 (PSIG) PIPE SIZING.
REFERENCE TABLE 402.4(3) OF THE 2014 InFGC FOR 10" W.C. PIPE SIZING.

ABOVEGROUND, BRANCH PIPING NPS 2 AND SMALLER IS TO BE THE FOLLOWING:
1. STEEL PIPE WITH MALLEABLE-IRON FITTINGS AND THREADED JOINTS.

ABOVEGOUND, PIPING NPS 2-1/2" AND LARGER IS TO BE THE FOLLOWING:
1. STEEL PIPE WITH WROUGHT-STEEL FITTINGS AND WELDED JOINTS.

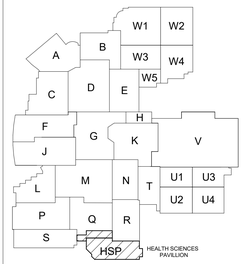
SEE SPECIFICATION SECTION 231123 FOR MORE INFORMATION.



1 PLUMBING FIRST FLOOR PLAN - UNIT HSP
1/8" = 1'-0"

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#	Date	Description
1	10/16/2026	Addendum #1



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(317) 617-4270

TECHNOLOGY:
Design 27
1650 E. 49th Street
Indianapolis, Indiana 46205
(317) 536-8000

Project Name:
Franklin Central High School Health Sciences Pavilion

Drawing Title:
FIRST FLOOR PLUMBING PLANS - UNITS Q AND HSP

GABRIEL S. CURRIER REGISTERED NO. PE10808972 STATE OF INDIANA PROFESSIONAL ENGINEER

Client Project No:	
VPS Project No:	2025019.00
Project Issue Date:	09.16.2026
Drawing No:	PP101

SHEET NOTES

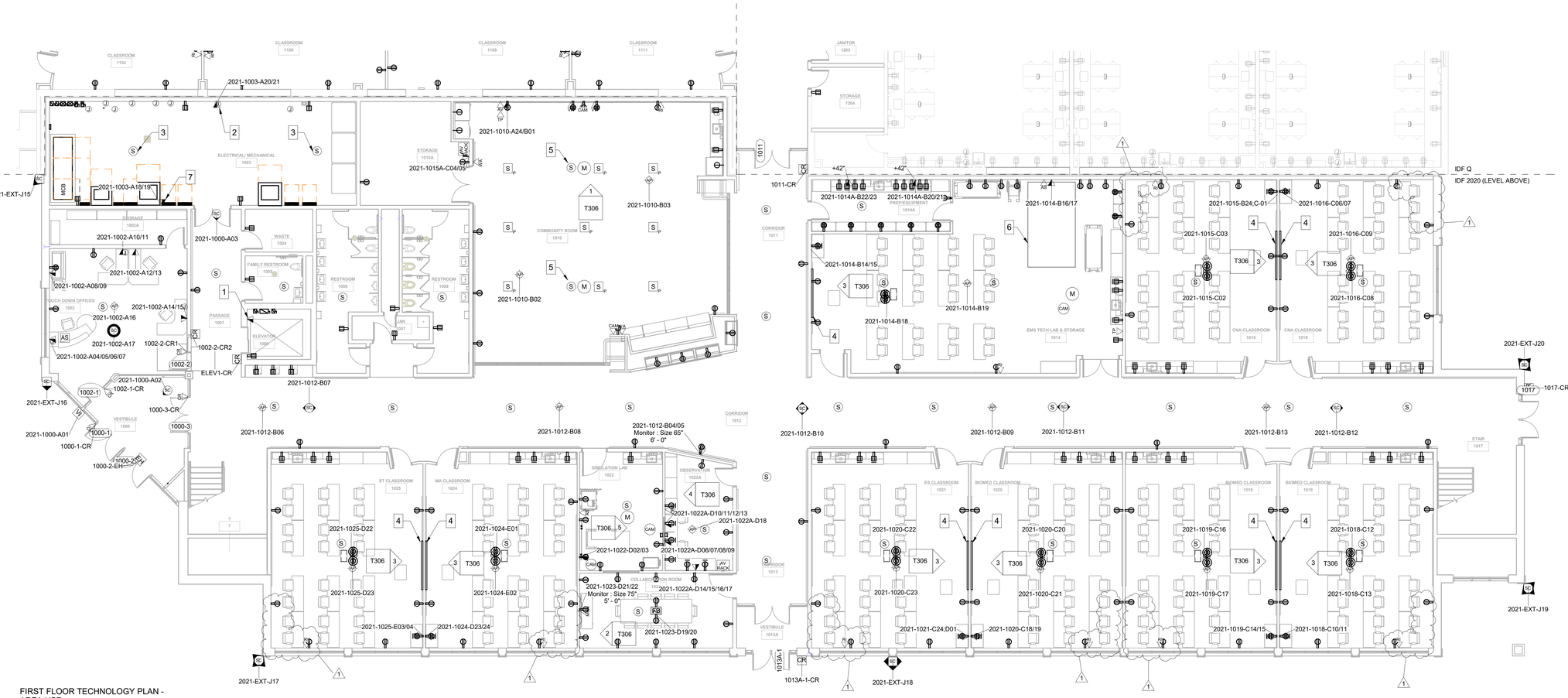
1. DATA TO SERVE ELEVATOR CAB EMERGENCY PHONE. VERIFY INSTALLATION REQUIREMENTS WITH ELEVATOR MANUFACTURER. OWNER SHALL BE RESPONSIBLE FOR CROSS CONNECTING ANALOG POTS LINE OR CELLULAR BACKUP TO TERMINATED PORT FOR PHONE CONNECTIVITY.
2. DATA TO SERVE TC PANEL CONNECTIVITY. VERIFY FINAL LOCATION WITH CONSTRUCTION MANAGER.
3. DIRECT ATTACH LOUDSPEAKER TO EXPOSED STRUCTURE.
4. 57 1/2" H x 92" W 16:10 ASPECT RATIO WALL MOUNTED MANUAL PROJECTION SCREEN.
5. PAGING SPEAKER SHALL BE MOUNTED TO EXPOSED STRUCTURE. REFERENCE DETAIL ON SHEET T401 FOR ADDITIONAL INFORMATION.
6. VERIFY FINAL CFCI CAMERA LOCATIONS WITHIN AMBULANCE CAB WITH AMBULANCE CAB MANUFACTURER.
7. DATA TO SERVE BAS CONNECTIVITY. VERIFY FINAL LOCATION WITH CONSTRUCTION MANAGER.

TECHNOLOGY LEGEND

- DATA LOCATION
- ABOVE CEILING DATA LOCATION
- TEACHER STATION LOCATION
- AV INPUT LOCATION - TYPE 1
- AV INPUT LOCATION - TYPE 2
- AV INPUT LOCATION - TYPE 3
- AV FLOOR BOX LOCATION
- WIRELESS ACCESS POINT - CEILING MOUNTED
- PROJECTOR LOCATION
- CLASSROOM SPEAKER/AMPLIFIER
- CEILING MICROPHONE - PENDANT MOUNTED
- AV CAMERA LOCATION
- WIRELESS MICROPHONE ANTENNA LOCATION
- HEARING ASSISTANCE ANTENNA LOCATION
- PAGING SPEAKER - CEILING MOUNTED
- PROGRAM SPEAKER - PENDANT MOUNTED
- MONITOR LOCATION
- MONITOR ON MOBILE CART LOCATION
- DIGITAL SIGNAGE LOCATION
- VIDEO WALL LOCATION
- ROUGH-IN LOCATION

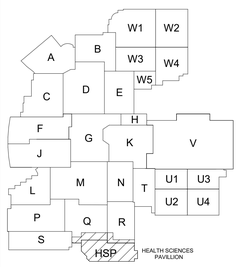
GENERAL HORIZONTAL CABLING NOTES

A	REFER TO TECHNOLOGY SCOPE MATRIX ON SHEET T001 FOR SCOPE DELINEATION.
B	MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
C	CONTRACTOR SHALL PROVIDE A DOCUMENTED MANUFACTURER CERTIFIED SOLUTION INCLUDING THE MINIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
D	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
E	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
F	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.
G	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS.
H	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
I	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
J	ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.



1 FIRST FLOOR TECHNOLOGY PLAN - AREA HSP
1/8" = 1'-0"

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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Michael Furnish
BICSI ID # 396848
EXPIRES 12-31-27
RCDD

Client Project No:

VPS Project No: **2025019.00**

Project Issue Date: **September 18, 2026**

Drawing No: **T201HSP**

SHEET NOTES

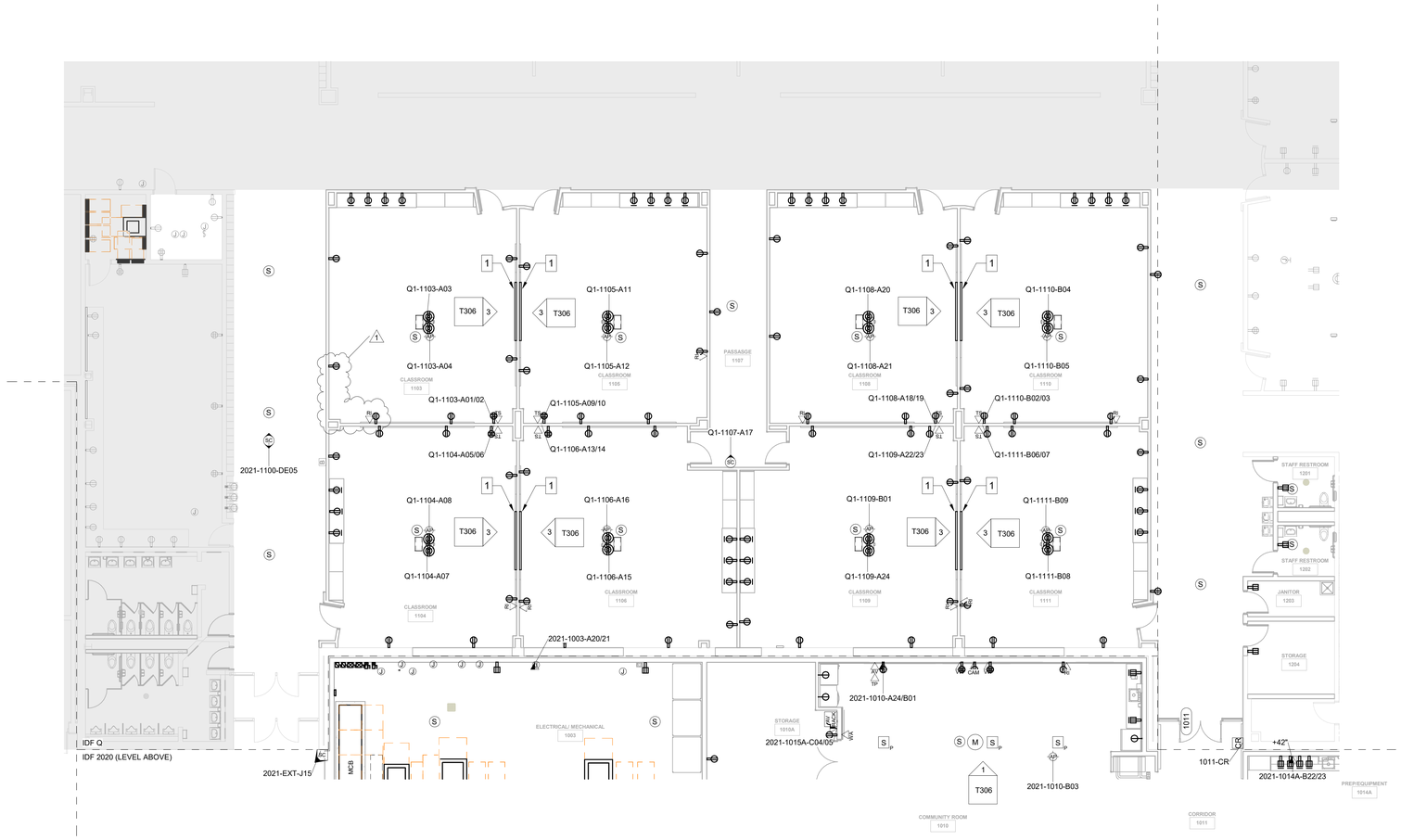
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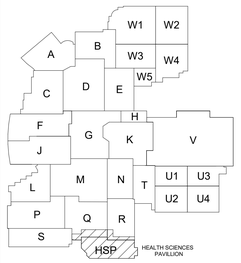
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