

### **ADDENDUM SUMMARY**

Addendum #2

Date: 02/02/2024

Project: 2024 – Fishers Elementary School Addition & Renovations

This Addendum is issued in accordance with the provisions of "The General Conditions of the Contract for Construction," Article 1, "Contract Documents" and becomes a part of the Contract Documents as provided therein.

This Addendum includes the following attachments:

- 1) Addendum #2 dated 02/02/24 issued by CSO Architecture / Interior Design with attachments
- 2) Addendum #2 Revisions to Wurster Constr. Co. Procurement & Contract Requirements
  - a) Revised 00 24 00 Bid Packages
  - b) Revised 00 41 00 Bid Form
- 3) Phasing Plans
- **4)** Reference Wurster Construction Project Manual Volume 1-1 **Procurement and Contract Requirements** Instructions to Bidders Spec 00 2213, page 5, paragraph IV.- Umbrella Liability: Revise limits to **\$2,000,000** each occurrence and **\$2,000,000** aggregate for subcontractors.
- Seference Wurster Construction Project Manual Volume 1-1 Procurement and Contract Requirements Instructions to Bidders Spec 00 2213, paragraph 1.4 E. Change to read "Failure to achieve substantial completion within the Contract Time will result in Liquidated Damages in the amount of \$1,000 being assessed to the project for each calendar day until substantially complete per the A133 Contract."

End Addendum



## **ADDENDUM**



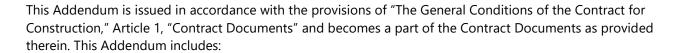
ARCHITECTURE · INTERIOR DESIGN

ADDENDUM NO: 2

BID PACKAGE NO: N/A

PROJECT: 2024 – Fishers Elementary School Addition and Renovations

PROJECT NO: 2021119 DATE: 02/02/2024 BY: Josh Cannaday



#### **ATTACHMENTS**

CSO Addendum No. 2, pages 1-7
See Attached Addendum by REDimond (MEPT)

#### Specifications:

- 01 23 00 Alternates
- 11 68 00 Playground Equipment
- 32 18 16 Playground Protective Surfacing Syn Turf

#### Drawings:

AD201, AD201D, AD201E, AD202E, AD202E, AD203, A211A, A211D, A212D, A220, A600, A601, A602, A604, A605, A606, A607, A608, A609, A610, A611, A612, A613, A614, A615, A616, A800, A801A, A801B, A801C, A801D, A802A, A802B, A802C, A802D, A901B, A901C, A902A, A902B, A902C

#### **PART 1 - GENERAL INFORMATION**

A. NOT USED

### **PART 2 - BIDDING REQUIREMENTS**

A. NOT USED

#### **PART 3 - SPECIFICATIONS**

- 3.1 <u>00 01 10 Table of Contents</u>
  - A. 01 56 39 Tree Preservation
    - Remove specification from TOC
  - B. 23 64 01 Packaged Air-Cooled Water Chillers
    - 1. Add to TOC



- C. 23 64 26 Air Cooled Rotary Screw Water Chillers
  - 1. Remove specification from TOC
- D. 27 05 50 Firestopping for Communications Systems
  - 1. Remove specification from TOC
- E. 27 05 53 Identification for Communications
  - 1. Remove specification from TOC
- 3.2 01 23 00 Alternates
  - A. Replace specification in its entirety
- 3.3 <u>08 41 00 Door Hardware</u>
  - A. Revise hardware group no. 42 to include door D127A
  - B. Revise Hardware Group No. 65 to exclude door A220 and to include doors A220A and A220B
- 3.4 <u>11 68 00 Playground Equipment</u>
  - A. See Specification for revision
- 3.5 <u>14 24 00 Hydraulic Elevators</u>
  - A. Revise section 142400-5 2.03 B 7 b to read: Height: 84 inches (2134 mm) 96 inches (2439 mm)
  - B. Revise section 142400 2.03 B 6 k to read: Ceiling: Luminous ceiling with LED Lighting. **Powder** coat frame finish from manufacturer's standard line of colors
- 3.6 <u>32 18 16 Playground Protective Surfacing Syn Turf</u>
  - A. See specification for revision

#### **PART 4 - DRAWINGS**

- 4.1 AD201 OVERALL FIRST LEVEL DEMOLITION PLAN
  - A. Revised to include half height exterior wall and canopy columns for demolition
- 4.2 <u>AD201D FIRST FLOOR DEMOLITION PLAN UNIT D</u>
  - A. Revised to include demo'd exterior wall adjacent to Gymnasium
- 4.3 <u>AD201E FIRST FLOOR DEMOLITON PLAN UNIT E</u>



A. Revised to include half height exterior wall and canopy columns for demolition

#### 4.4 AD202 – OVERALL SECOND LEVEL DEMOLITION PLAN

- A. Revised to include canopy and skylight for demolition
- 4.5 <u>AD202E SECOND FLOOR DEMOLITION PLAN UNIT D</u>
  - A. Revised to include canopy and skylight for demolition
- 4.6 <u>AD203 ROOF DEMOLITION PLAN</u>
  - A. Revised to include canopy and skylight for demolition
- 4.7 <u>A211A FIRST FLOOR REFLECTED CEILING PLAN- UNIT A</u>
  - A. Removed P2 finish tags
- 4.8 <u>A211D FIRST FLOOR REFLECTED CEILING PLAN UNIT D</u>
  - A. Adjust ceiling heights in the following areas:
    - 1. Corridor D100, Corridor D105, Vestibule D130 and Corridor D131
- 4.9 <u>A212D SECOND FLOOR REFLECTED CEILING PLAN UNIT D</u>
  - A. Removed annotations for clarification
- 4.10 <u>A220 DISCOVERY CENTER CEILING</u>
  - A. Revised to include Reflected Ceiling Plan Note 8
- 4.11 <u>A600 CASEWORK SCHEDULE</u>
  - A. Revised section on sheet
  - B. Added general casework notes
- 4.12 <u>A601 CASEWORK ELEVATIONS AND MILLWORK DETAILS</u>
  - A. Revised elevation on sheet
  - B. Revised PL1 to TS1 on 6/A601
- 4.13 <u>A602 CASEWORK ELEVATIONS</u>
  - A. Added casework tags
  - B. A604 INTERIOR ELEVATIONS



- C. Added dimensions to 7/A604 and 8/A604
- D. Revised 10/A604 to include TV tag and opening
- 4.14 A605 INTERIOR ELEVATIONS CLASSROOMS
  - A. Removed FE tags for clarification
- 4.15 A606 INTERIOR ELEVATIONS CLASSROOMS
  - A. Removed FE tags for clarification
  - B. Added Filler Panel tags
- 4.16 <u>A607 INTERIOR ELEVATIONS CLASSROOMS</u>
  - A. Removed FE tags for clarification
- 4.17 <u>A608 INTERIOR ELEVATIONS GLOBAL STUDIES</u>
  - A. Removed FE tags for clarification
- 4.18 A609- INTERIOR ELEVATIONS GLOBAL STUDIES
  - A. Removed FE tags for clarification
- 4.19 <u>A610 INTERIOR ELEVATIONS DISCOVERY CENTER</u>
  - A. Added note to 1/A610
  - B. Removed tags from 2/A610
- 4.20 <u>A611 INTERIOR ELEVATIONS FIRST FLOOR CORRIDORS</u>
  - A. Shifted, removed, and added dimensions for clarification
  - B. Removed finish tags for clarification
- 4.21 A612 INTERIOR ELEVATIONS SECOND FLOOR CORRIDOR
  - A. Removed WT8 and TB1 extents from all elevations
- 4.22 <u>A613 INTERIOR ELEVATIONS GYMNASIUM</u>
  - A. Removed finish tags for clarification
- 4.23 A614 INTERIOR ELEVATIONS CAFETERIA
  - A. Revised tile scope on 4/A614

#### 4.24 <u>A615 – DISCOVERY CENTER MILLWORK</u>

- A. Removed finish tags for clarification
- B. Added note to indicate direction of grain

### 4.25 <u>A616 – DISCOVERY CENTER MILLWORK</u>

A. Removed finish tags for clarification

#### 4.26 <u>A800 – FINISH LEGEND & NOTES</u>

- A. Revised TB to TB1
- B. Revised WT6a and WT6b as indicated
- C. Revised install on WT3a, WT3b, WT4a, WT4b, WT5a, WT5b, WT6a, WT6b, WT7a, WT7b
- D. Removed dimension from WT8 install for clarification
- E. Revised F5, F9, and F16 note

#### 4.27 A801 – FIRST FLOOR FINISH PLAN – UNIT A

- A. Removed tags for clarity
- B. Revised TB base tags to TB1
- C. Revised RB1 to TB1 in CORRIDOR A139

#### 4.28 <u>A801B – FIRST FLOOR FINISH PLAN – UNIT C</u>

- A. Removed tags for clarity
- B. Revised TB base tags to TB1
- C. Revised RB1 to TB1 in CORRIDOR B127

### 4.29 <u>A801C – FIRST FLOOR FINISH PLAN – UNIT C</u>

- A. Removed tags and shifted callout tags for clarity
- B. Added Elevation tag to 2/A801C

#### 4.30 <u>A801D – FIRST FLOOR FINISH PLAN – UNIT D</u>

- A. Removed tags for clarity
- B. Revised TB base tags to TB1



#### C. Revised RB1 to TB1 in CORRIDOR D100

#### 4.31 A802A – SECOND FLOOR FINISH PLAN – UNIT A

- A. Removed ceiling mounted acoustic flap wings for clarification
- B. Shifted callout tags, room tags, and finish tags for clarity
- C. Added elevation tag to 2/A802A
- D. Added room tag for STAIR S201
- E. Added finish tags and directional arrow near STAIR S201

#### 4.32 <u>A802B – SECOND FLOOR FINISH PLAN – UNIT B</u>

- A. Shifted callout tags for clarity
- B. Added elevation tag to 2/A802B
- C. Added F3 finish tag to CORRIDOR B226

#### 4.33 A802C – SECOND FLOOR FINISH PLAN – UNIT C

- A. Shifted callout tags for clarity
- B. Added elevation tag to 2/A802C
- C. Added F3 finish tag to CORRIDOR B226

### 4.34 <u>A802D – SECOND FLOOR FINISH PLAN – UNIT D</u>

- A. Removed ceiling mounted acoustic flap wings for clarification
- B. Added floor transition tags in CORRIDOR C228

#### 4.35 <u>A901B – FIRST FLOOR EQUIPMENT PLAN – UNIT B</u>

- A. Removed corner guard from ACTIVITY COMMONS B120
- B. Removed corner guard from CORRIDOR B127

#### 4.36 <u>A901C – FIRST FLOOR EQUIPMENT PLAN – UNIT B</u>

- A. Removed corner guard from ACTIVITY COMMONS C120
- B. Removed corner guard from CORRIDOR D100

#### 4.37 A902A - SECOND FLOOR EQUIPMENT PLAN - UNIT A



- A. Removed corner guard from ACTIVITY COMMONS A220
- B. Added corner guard to CORRIDOR A230
- 4.38 <u>A902B SECOND FLOOR EQUIPMENT PLAN UNIT B</u>
  - A. Removed corner guard from ACTIVITY COMMONS B220
  - B. Added corner guard to CORRIDOR B226
- 4.39 <u>A902C SECOND FLOOR EQUIPMENT PLAN UNIT C</u>
  - A. Removed corner guard from ACTIVITY COMMONS C220
  - B. Added corner guard to CORRIDOR C228

### **PART 5 - QUESTIONS AND ANSWERS**

5.1 NOT USED

**END ADDENDUM #2** 

#### SECTION 01 23 00 - ALTERNATES

#### PART 1 - GENERAL

#### 1.01 RELATED DOCUMENTS

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

#### 1.02 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

#### 1.03 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
  - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
  - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

#### 1.04 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
  - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

#### PART 2 - PRODUCTS (NOT USED)

#### PART 3 - EXECUTION

#### 3.01 SCHEDULE OF ALTERNATES

- A. Alternate No. 01: Performance & Payment Bond
  - 1. Base bid: Performance & Payment Bond not required
  - 2. Alternate Bid: Provide an ADD to include a 100% Performance & Payment Bond for your Bid Package(s)
- B. Alternate No. 02: PVC Roofing.
  - 1. Base Bid: Provide polyvinyl-chloride (PVC) Roofing, fully adhered, as specified in 07 54 19 "Polyvinyl-Chloride (PVC) Roofing (Fully Adhered).
  - 2. Alternate Bid: Provide polyvinyl-chloride (PVC) Roofing, induction weld mechanically attached system as specified in 07 54 20 "Thermoplastic Polyvinyl-Chloride (PVC) Membrane Roofing Induction Weld Mechanically Attached System".

(Note: Refer to Drawing A103 and specs 07 54 19 and 07 54 20)

- C. Alternate No. 03: Boilers
  - Provide cost for hydronic boiler equipment with requirements specified in Section 23 52 16 - Condensing Boilers and as shown on plans. Amount represents cost of equipment. Base bid includes installation cost. However, installation costs unique to an offered alternate shall be included in the alternate cost. At least two alternates must be offered. If listed alternate is not offered, indicate "N/A."
    - a. Alternate 03a: Fulton Endura 2000
    - Alternate 03b: Lochinvar Crest FCB 2000
    - c. Alternate 03c: Cleaver Brooks CE 2000

(Note: All manufacturers are required to electronically submit a preliminary equipment submittal to the Construction Manager within 24 hours of bid.)

(Note: Refer to 23 52 16 and Drawing M611)

- D. Alternate No. 04: Air-Cooled Chiller
  - Amount to add to contract sum for chiller equipment <u>CH-A1</u> with requirements specified in Section 23 64 01 Packaged, Air-Cooled Water Chillers and as shown on plans. Amount represents cost of equipment. Base bid includes installation cost. However, installation costs unique to an offered alternate shall be included in the alternate cost. At least two alternates must be offered. If listed alternate is not offered, indicate "N/A."
    - a. Alternate 04a: York/JCIb. Alternate 04b: Trane
    - c. Alternate 04c: Carrier

Note: All manufacturers are required to electronically submit a preliminary equipment submittal to the Construction Manager within 24 hours of bid.

(Note: Refer to 23 64 01 and Drawings M301& M611)

#### E. Alternate No. 05: Air Handling Units

Amount to add to contract sum for all air handler equipment provided with requirements specified in Section 23 73 13 - Modular Indoor Air Handling Units and as shown on plans. Amount represents cost of equipment. Base bid includes installation cost. However, installation costs unique to an offered alternate shall be included in the alternate cost. At least two alternates must be offered. If listed alternate is not offered, indicate "N/A."

a. Alternate 05a: Carrierb. Alternate 05b: York/JCIc. Alternate 05c: Trane

(Note: All manufacturers are required to electronically submit a preliminary equipment submittal to the Construction Manager within 24 hours of bid.)

(Note: Refer to 23 73 13 and Drawings M415 & M611)

#### F. Alternate No. 06: Temperature Controls

- Amount to add to contract sum for all temperature controls provided with requirements specified in Section 23 09 00 Instrumentation and Controls for HVAC and as shown on plans. Amount represents cost of systems, equipment, and labor. If listed alternate is not offered, indicate "N/A."
  - a. Alternate 06a: Siemens Controlsb. Alternate 06b: Grantham Controls

**END OF SECTION** 

#### SECTION 11 68 00 - PLAYGROUND EQUIPMENT

#### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

#### A. Product Selections:

- 1. Basketball Goals
- 2. Gaga Pits
- 3. Spinner Bowls
- 4. Group See-Saw
- 5. Net Climber
- 6. Large Climbing Structure
- 7. Play Structure
- 8. Standing Spinner
- 9. Swing Set A
- 10. Swing Set B
- 11. Shade Structure
- 12. Relocated Tipi Carousel
- 13. Relocated Super Nova

#### B. Related Sections include the following:

- 1. Division 31 Section "Earth Moving" for excavation and grading work.
- 2. Division 3 Section "Site Cast-in-Place Concrete" for concrete footings.
- 3. Division 32 Section "Playground Protective Surfacing" for playground surface.

#### 1.3 DEFINITIONS

- A. Composite Play Structures: According to ASTM F 1487, this means "two or more play structures, attached or functionally linked," creating one integral unit with more than one play activity.
- B. Critical Height: Standard measure of shock attenuation. According to CPSC No. 325, this means "the fall height below which a life-threatening head injury would not be expected to occur."
- C. Fall Height: According to ASTM F 1487, this means "the vertical distance between a designated play surface and the protective surfacing beneath it." The fall height of playground equipment should not exceed the Critical Height of the protective surfacing beneath it.
- D. HDPE: High-density polyethylene.

- E. IPEMA: International Play Equipment Manufacturers Association.
- F. MDPE: Medium-density polyethylene.
- G. Play Structure: According to ASTM F 1487, this is "a free-standing structure with one or more components and their supporting members."
- H. Protective Surfacing: According to ASTM F 1487, this means impact-attenuating "materials to be used within the use zone of any playground equipment" for playground surface systems.
- I. PVC: Polyvinyl chloride.
- J. Transfer Point: According to ASTM F 1487, this is "a platform or deck along an accessible route of travel or an accessible platform provided to allow a child in a wheelchair to transfer from the chair onto the equipment."
- K. Use Zone: According to ASTM F 1487, this is "the area beneath and immediately adjacent to a play structure that is designated for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the equipment."

#### 1.4 SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Shop Drawings: For each type of playground equipment, include materials, plans, elevations, sections, details, method of field assembly, connections, and installation details. Indicate capacity and number of play activities.
- C. Coordination Drawings: Layout plans and elevations drawn to scale and coordinating playground equipment with playground surface systems. Show playground equipment locations, use zones, fall heights, extent of protective surfacing, and Critical Heights.
- D. Samples for Initial Selection: Manufacturer's color charts or 6-inch (150-mm) lengths of actual units showing the full range of colors and textures available for components with factory-applied color finishes.
- E. Samples for Verification: For the following products, for each type of exposed finish required, prepared on Samples of size indicated below and of same thickness and material indicated for the Work. If finishes involve normal color and texture variations, include sample sets showing the full range of variations expected. Landscape Architect reserves the right to require additional Samples that show fabrication techniques, workmanship, and design of playground equipment.
  - 1. Steel Pipe: Not less than 6 inches (150 mm) long.
  - 2. Metal Roofing: Not less than 6 inches (150 mm) square.
  - 3. Molded Plastic: Not less than 3 inches (75 mm) square.
  - 4. Stainless Steel: Not less than 3 inches (75 mm) square.
  - 5. Steel Cable: Not less than 6 inches (150 mm) long
- F. Product Certificates: Signed by manufacturers of playground equipment and resilient surfacing certifying that products furnished comply with requirements.

- G. Installer Certificates: Signed by manufacturer certifying that installers comply with requirements.
- H. Manufacturer Certificates: Signed by manufacturers certifying that they comply with requirements.
- I. Material Certificates: Signed by manufacturers certifying that each of the following items complies with requirements:
  - 1. Paints and similar finishes.
  - 2. Recycled plastic.
- J. Product Test Reports: From a qualified testing agency indicating playground equipment complies with requirements, based on comprehensive testing of current products.
- K. Field Quality-Control Report: Indicate compliance of playground and installed playground equipment and components with requirements.
- L. Maintenance Data: For playground equipment and finishes to include in maintenance manuals specified in Division 1.

#### 1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who has specialized in installing work similar in material, design, and extent to that indicated for this Project and who is acceptable to manufacturer of playground equipment.
- B. Manufacturer Qualifications: A firm whose playground equipment components meet or exceed the latest requirements as published in ASTM F 1487-95 Standard Consumer Safety Product Performance for Playground Equipment for Public Use.
- C. Testing Agency Qualifications: An independent testing agency with the experience and capability to conduct the testing indicated, as documented according to ASTM E 548.
- D. Standards and Guidelines: Provide playground equipment and resilient surfacing complying with or exceeding requirements in the following:
  - 1. ASTM F 1487.
  - 2. CPSC No. 325, "Handbook for Public Playground Safety."
  - 3. Label play structures with warning label and manufacturer's identification per ASTM F 1487.
  - 4. ASTM F 1292-17 and F 1951.

#### 1.6 COORDINATION

A. Coordinate construction of equipment use zones and fall heights during installation of playground equipment with installation of protective surfacing specified herein. Sequence work so protective surfacing can be installed immediately after concrete footings have set.

#### PART 2 - PRODUCTS

#### 2.1 PRODUCTS

- A. Products: Subject to compliance with requirements, provide and install complete play features as follows:
  - Basketball Goals:
    - a. Gared Sports, Noblesville, IN 46060; 1-800-325-2682. Model #GP105PC72 Endurance Playground System, 6" Square Post, 5' Extension, BB72P50 Polycarbonate Backboard, 8800 Goal, or approved equal prior to bidding.
  - 2. GaGa Pits:
    - a. GaGa Pit A: Model Octagon 30"H, GaGa Ball Pit Wall Top Covers and GaGa Ball Pit ADA Doorway as manufactured by Coach Cliff's Gaga Pits, Waukegan, IL 60085, Phone 877-266-8426, or approved equal prior to bidding
    - b. Gaga Pit B: Model Octagon 24"H, GaGa Ball Pit Wall Top Covers as manufactured by Coach Cliff's Gaga Pits, Waukegan, IL 60085, Phone 877-266-8426, or approved equal prior to bidding
  - 3. Spinner Bowls:
    - a. (1) Spinner Bowl, Model No. #ELE400024 as manufactured by Kompan Inc., Tacoma, WA 98402, Phone 800.426.978, or approved equal prior to bidding.
    - b. (1) Excavate existing Kompan Spinner Bowl, remove concrete from existing footer and coordinate storage with school until date of new installation.
  - 4. Group See-Saw:
    - Garden Seesaw, Model No. #M186 with one back support as manufactured by Kompan Inc., Tacoma, WA 98402, Phone 800.426.9788
  - 5. Net Climber:
    - Arc Tunnel No. #COR20600 as manufactured by Kompan Inc., Tacoma, WA 98402, Phone 800.426.978, or approved equal prior to bidding.
  - 6. <u>Large Climbing Structure:</u>
    - a. Parkour 5 Model No. #NRO857 as manufactured by Kompan Inc., Tacoma, WA 98402, Phone 800.426.978, or approved equal prior to bidding.
  - 7. Play Structure:
    - **a.** Four Towers with Net Model No. #PCM410231 as manufactured by Kompan Inc., Tacoma, WA 98402, Phone 800.426.978, or approved equal prior to bidding.
  - 8. Standing Spinners
    - a. Spica 1 Model No.#GXY8014 as manufactured by Kompan Inc., Tacoma, WA 98402, Phone 800.426.978, or approved equal prior to bidding.
  - 9. Swing Set A
    - a. 3 Bay Swing model #KSW926 with 4 belt seats and two Inclusive seats as manufactured by Kompan Inc., Tacoma, WA 98402, Phone 800.426.978, or approved equal prior to bidding.
  - 10. Swing Set B
    - a. 4 Bay Swing model #KSW928 with 4 belt seats and two basket swings, as manufactured by Kompan Inc., Tacoma, WA 98402, Phone 800.426.978, or approved equal prior to bidding.
  - Basket Swing
    - a. Birds Nest Shell Seat Model No. SW990081-05 as manufactured by Kompan Inc., Tacoma, WA 98402, Phone 800.426.978, or approved equal prior to bidding.
  - 12. Swing Seats:
    - a. Belt Seat Model No. #SW990011-00 as manufactured by Kompan Inc., Tacoma, WA 98402, Phone 800.426.978. Chains to be a minimum of 80" long. Inclusive Seat with harness Model No. #SW990205, as manufactured by Kompan Inc., Tacoma, WA 98402, Phone 800.426.978, or approved equal prior to bidding.
    - b. Welds shall be smooth and continuous with no gaps or pin holes. Final product shall be free of weld spatters and burrs. Each chain shall swing freely from a

- UHMW bushing for maximum wear resistance without requiring periodic maintenance.
- c. Swing mounting brackets shall be finished black.
- d. Swing chain and assembly hardware shall be galvanized.

#### 13. Shade Structure:

- a. 20'x20' Navajo Shelter without Cupola, as manufactured by Americana Building Products. Contact Commercial Recreation Group, Noblesville, Indiana Phone: 317-776-7830 or approved equal prior to bidding.
- b. Approved Equal: 20' x 20' Rect. Hip Shelter, as manufactured by Cedar Forest Products. Contact Recreation Insites, Fishers, IN. Phone:317-617-1740.

#### 14. Relocated Tipi Carousel:

a. Excavate existing Kompan Tipi Carousel, remove concrete from existing footer and coordinate storage with school until date of new installation. Product Info: Tipi Carousel with Top Brace, Model No. #ELE400065 as manufactured by Kompan Inc., Tacoma, WA 98402, Phone 800,426,978.

#### 15. Relocated Supernova:

- a. Provide new legs and hardware for (1) Supernova, Model No. #GXY960 as manufactured by Kompan Inc., Tacoma, WA 98402, Phone 800.426.978. Upper ring to be removed and stored until time of new install. Coordinate with Owner and Landscape Architect.
- B. Manufacturers and Substitutions: Subject to compliance with all intended play value, play experience, safety requirements, proven durability records, and advanced certifications deemed appropriate by the Landscape Architect, approved equals are encouraged as part of the bidding process. Bidders shall request approval of alternative products in writing during the bidding process. Complete and thorough submittals demonstrating equality and parity must be received no later than ten (10) days prior to the Bid Opening to be considered. Substitutions, if accepted, will be issued in writing by the Landscape Architect via addendum.
- C. Required Coordination: The successful Contractor shall be fully responsibility for coordination with respective playground manufacturers when attaching new product to existing structures. The Owner shall not bear any change orders or additional costs related to a lack of due diligence by the Contractor to ensure products included in their Bid are fully compliant with specifications, properly attach to existing structures, and maintain all warranties in force.
- D. Colors: As selected by Landscape Architect from manufacturer's full range of standard colors during Shop Drawing process.

### 2.2 MATERIALS

- A. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated and to comply with performance requirements for structural aluminum; mill finish or decorative baked-enamel powder-coat finish.
  - 1. Extruded Bars, Profiles, and Tubes: ASTM B 221 (ASTM B 221M).
    - a. Tubing: Minimum yield strength of 35,000 lbf/sq. in. (241 MPa) and minimum tensile strength of 38,000 lbf/sq. in. (262 MPa).

2. Cast Aluminum: ASTM B 179.

**SECTION 11 68 00** 

PLAYGROUND EQUIPMENT

- B. Steel: Comply with the following:
  - 1. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M, hot-dip galvanized.
  - 2. Steel Pipe: Standard-weight steel pipe complying with ASTM A 53 or electric-resistance-welded pipe complying with ASTM A 135, with a minimum yield strength of 30,000 lbf/sq. in. (205 MPa); hot-dip galvanized internally and externally.
  - 3. Steel Mechanical Tubing: Cold-rolled, electric-resistance-welded carbon or alloy steel tubing complying with ASTM A 513 or steel tubing fabricated from steel complying with ASTM A 569/A 569M and complying with the dimensional tolerances in ASTM A 500; with a minimum yield strength of 40,000 lbf/sq. in. (276 MPa) and a minimum tensile strength of 45,000 lbf/sq. in. (310 MPa); zinc coated internally and externally.
  - 4. Steel Sheet: Commercial steel sheet complying with ASTM A 569/A 569M.
  - 5. Galvanized Steel Sheet: Commercial steel sheet, hot-dip galvanized, complying with ASTM A 653/A 653M for not less than G60 (Z180) coating designation; mill phosphatized.
  - 6. Perforated Metal: From steel sheet not less than 0.0897-inch (2.3-mm) nominal thickness; manufacturer's standard perforation pattern.
- C. Opaque Plastic: Color impregnated, UV stabilized, and mold resistant.
  - 1. Polyethylene: Fabricated from virgin plastic resin; rotationally molded MDPE with not less than 1/4-inch (6-mm) wall thickness or molded HDPE.
- D. Transparent Plastic: Clear, colorless abrasion-resistant, UV-stabilized monolithic polycarbonate sheet, not less than 3/16 inch (5 mm) thick.
- E. Post Caps: Cast aluminum.
- F. Platform Clamps and Hangers: Cast aluminum or not less than 0.105-inch- (2.7-mm-) nominal thickness, zinc-plated steel.
- G. Hardware: Manufacturer's standard, commercial-quality, corrosion-resistant, hot-dip galvanized steel, stainless steel, or aluminum; secure, vandal-resistant design.
- H. Fasteners: Manufacturer's standard, corrosion-resistant, hot-dip galvanized or plated steel, or stainless steel; permanently capped; theft resistant.
- I. Drainage Fill: Washed coarse-aggregate mixture of crushed stone, or crushed or uncrushed gravel.
- J. Galvanizing: Where indicated for steel components, provide the following protective zinc coating applied to components after fabrication:
  - 1. Zinc-Coated Tubing: External, zinc with organic overcoat, consisting of a minimum of 0.9 oz./sq. ft. (0.27 kg/sq. m) of zinc after welding, a chromate conversion coating, and a clear, polymer film. Internal, same as external or consisting of 81 percent, not less than 0.3-mil- (0.0076-mm-) thick, zinc pigmented coating.
  - 2. Hot-Dip Galvanizing: According to ASTM A 123/A 123M, ASTM A 153/A 153M, or ASTM A 924/A 924M.
- K. Paint and PVC-Coat Finish: Comply with 16 CFR 1303 for limiting lead in paint.

#### 2.3 FABRICATION

- A. General: Provide sizes, strengths, thicknesses, wall thickness, and weights of components as indicated but not less than required to comply with structural performance and other requirements in ASTM F 1487. Factory drill components for field assembly. Unnecessary holes in components, not required for field assembly, are not permitted. Provide complete play structure, including supporting members and connections, means of access and egress, designated play surfaces, barriers, guardrails, handrails, handholds, and other components indicated or required to comply with referenced standards for equipment indicated.
- B. Rung Ladders, Stepladders, Stairways, Ramps, Step Platforms, and Transfer Points: Provide complete means of access and egress, with evenly spaced treads and rungs, easily grasped handholds, and slip-resistant foot surfaces; fabricated from manufacturer's standard materials complying with requirements indicated and compatible with frame and play surfaces. Provide closed risers and protective barriers if indicated or required by referenced standards.
- C. Play Surfaces: Provide elevated decks, platforms, landings, walkways, ramps, and similar transitional play surfaces, designed and framed to withstand loads and allowing for drainage. Fabricate units in manufacturer's standard modular sizes and shapes, to form assembled play surfaces of dimensions indicated on Drawings.
  - 1. Elevated Play Surfaces: Provide protective devices, completely surrounding play surface except for access openings, if play-surface heights above protective surfacing exceed the following for use by age group indicated:
    - a. Unless otherwise indicated, provide guardrails or protective barriers if play-surface heights above protective surfacing exceed 30 inches (760 mm) and provide protective barriers if play-surface heights above protective surfacing exceed 48 inches (1200 mm).
  - 2. Stepped Play Surfaces: Provide protective infill between stepped platforms according to referenced standards.
- D. Protective Barriers: Fabricated from welded metal pipe or tubing with vertical bars and fabricated with any openings within the barrier and between the barrier and the play surface precluding passage of the torso probe according to the most stringent requirements in ASTM F 1487 and CPSC No. 325. Provide barriers designed to minimize the possibility of climbing, free of hand- and footholds, and configured to completely surround the protected area except for access openings. Extend barriers to the following height above the protected elevated surface for use by age group indicated:
  - 1. Top surface not less than 38 inches (970 mm) high.
- E. Guardrails: Fabricated from metal pipe or tubing, and wood. Provide guardrails configured to completely surround the protected area except for access openings. Extend guardrails over the following expanse above the protected elevated surface for use by age group indicated:
  - 1. Top surface at not less than 38 inches (970 mm) and lower edge at not more than 28 inches (710 mm).
- F. Handrails: Welded metal pipe or tubing, OD 0.125 inch (3.2 mm). Provide handrails at height between the following dimensions for use by age group indicated:
  - 1. 22 to 38 inches (560 to 970 mm).
- G. Structural Plastic Slide Chutes: Opaque plastic, unless transparent plastic is indicated.
- H. Roofs: Fabricated from metal and wood designed to be positioned overhead and to discourage and minimize climbing by users.

- I. Climbing Ropes, Cables, and Chains: Designed to be secured at both ends so length cannot be looped back on itself creating a loop with an inside perimeter greater than 5 inches (127 mm). Ropes, cables, and chains with length 7 inches (178 mm) or less may be attached at one end only.
- J. Flexible Climbers: Designed to securely connect flexible-climber components used as access to other components at both ends. For components with one end connected to ground level, provide flexible climbers designed with the anchoring connection to ground placed beneath the base of protective surfacing.
- K. Steel Components: Galvanized, galvanized and color coated, or color coated. Bare metal steel components are not permitted.
  - 1. Color-Coated Pipe and Tubing for Component Frames: PVC-coat or baked-enamel powder coat applied to steel or galvanized steel.

#### 2.4 CAST-IN-PLACE CONCRETE

- A. Top of concrete footings shall be held 12" below finished grade within all protective play surfacing conditions. Account for any related impacts on overall footing depth to achieve Manufacturer's recommendations.
- B. Concrete Materials and Properties: Dry-packaged concrete mix complying with ASTM C 387 and mixed at the site with potable water, according to manufacturer's written instructions, to produce normal-weight concrete with a minimum 28-day compressive strength of 3,000 psi (20.7 MPa), 3-inch (75-mm) slump, and 1-inch- (25-mm-) maximum size aggregate.

#### 2.5 METAL FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating metal finishes.
- B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

#### 2.6 STEEL, ALUMINUM, AND GALVANIZED STEEL FINISHES

- A. Baked-Enamel Powder-Coat Finish: Manufacturer's standard, baked, polyester-TGIC, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness of 3 to 5 mils (0.075 to 0.127 mm).
- B. PVC Finish: Manufacturer's standard, UV-stabilized, mold-resistant, slip-resistant,-matte-textured, dipped or sprayed-on, PVC-plastisol finish, with flame retardant added, complying with coating manufacturer's written instructions for pretreatment, application, and minimum dry film thickness of 80 mils (2 mm).

#### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, site surface and subgrade drainage, and other conditions affecting performance.
  - 1. Do not begin installation before final grading required for placing protective surfacing is completed, unless otherwise permitted by Landscape Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 PREPARATION

A. Verify locations of playground perimeter and pathways. Verify that playground layout and equipment locations comply with requirements for each type and component of equipment.

#### 3.3 INSTALLATION, GENERAL

- A. General: Comply with manufacturer's written installation instructions, unless more stringent requirements are indicated. Anchor playground equipment securely, positioned at locations and elevations indicated on Shop Drawings.
  - Maximum Equipment Height: Coordinate installed heights of equipment and components with installation of protective surfacing. Set equipment so fall heights and elevation requirements for age group use and accessibility are within required limits. Verify that playground equipment elevations comply with requirements for each type and component of equipment.
- B. Post and Footing Excavation: Hand-excavate holes for posts and footings to dimensions, profile, spacings, and in locations indicated on Drawings, in firm, undisturbed or compacted subgrade soil. Level bearing surfaces with drainage fill to required elevation.
- C. Post Setting: Set main-frame equipment posts in concrete footing. Protect portion of posts above footing from concrete splatter. Place concrete around posts and vibrate or tamp for consolidation. Verify that posts are set plumb or at the correct angle and are aligned and at the correct height and spacing. Hold posts in position during placement and finishing operations until concrete is sufficiently cured.
- D. Resilient Surface Installation: Excavate area to dimensions and depth as indicated in the Drawings. Confirm use zone for each play structure with manufacturer's coordination drawings. Place separation fabric in excavated area, allowing for overlap as indicated. Place and compact crushed stone base to depth indicated in the Drawings.
- E. ADA Swing Alignment: The Contractor shall align newly installed ADA swings into the center of existing bays. Provide all labor and materials to properly fasten the system.
- F. Carefully coordinate surfacing depths with the General Contractor. Ensure that a uniform, evenly finished surface is achieved.

G. Final length of belt swing chains to be determined by Landscape Architect and Owner based on individual needs of the school. Chains will cut on site to desired length. Based on CPSI standards, swing sets must be 12" above surface when fully loaded.

#### 3.4 FIELD QUALITY CONTROL

- A. Arrange for playground equipment manufacturer's technical personnel to inspect playground and playground equipment and components during installation and at final completion and to certify compliance with the following:
  - 1. ASTM F 1487.
  - 2. CPSC No. 325.
- B. Notify Landscape Architect and Owner 48 hours in advance of date and time of final inspection.

#### 3.5 CLEANING

A. After completing playground equipment installation, inspect components. Remove spots, dirt, and debris. Repair damaged finishes to match original finish or replace component.

END OF SECTION 11 68 00

#### SECTION 32 18 16 - PLAYGROUND PROTECTIVE SURFACING

#### PART 1 - GENERAL

#### 1.1 **RELATED DOCUMENTS**

Hamilton Southeastern Schools

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

#### 1.2 **SUMMARY**

- A. This Section includes synthetic turf playground surfacing system.
- B. Related Sections include the following:
  - 1. Division 31 Section "Earth Moving" for excavation and grading work.
  - 2. Division 11 Section "Playground Equipment" for installation of play equipment.
  - 3. Division 3 Section "Site Cast-in-Place Concrete" for concrete footings.

#### 1.3 **DEFINITIONS**

- Critical Height: Standard measure of shock attenuation. According to CPSC No. 325, this Α. means "the fall height below which a life-threatening head injury would not be expected to occur."
- В. Fall Height: According to ASTM F 1487, this means "the vertical distance between a designated play surface and the protective surfacing beneath it." The fall height of playground equipment should not exceed the Critical Height of the protective surfacing beneath it.
- Protective Surfacing: According to ASTM F 1487, this means impact-attenuating "materials to C. be used within the use zone of any playground equipment" for playground surface systems.
- D. Use Zone: According to ASTM F 1487, this is "the area beneath and immediately adjacent to a play structure that is designated for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the equipment."

#### 1.4 **SUBMITTALS**

- Product Data: For each type of product indicated. Include installation details, material Α. descriptions, profiles, colors and finishes.
- Samples for Initial Selection: Manufacturer's color charts and 6-inch (150-mm) square samples В. of actual surface materials.

#### C. **Product Test Reports:**

ASTM F 1292-17: Impact Attenuation Test Certification for the play surface system to be installed in compliance with the Critical Fall Height as determined by the Playground Equipment to be installed in conjunction with the play surfacing system.

- 2. ASTM D 2859: Flammability.
- 3. ASTM D 2047-82: Coefficient of Friction.
- 4. ASTM D 412-87: Tensile Strength.
- 5. ASTM D 624-86: Tear Resistance.
- 6. Permeability Coefficient: Five (5) feet per minute.
- D. Statement of Warranty for a minimum five-year period with detailed Warranty Claim requirements of the owner and specific procedures to be followed by the manufacturer in terms of response and repair of warranty claims.

#### 1.5 QUALITY ASSURANCE

- A. Installer Qualifications: The installation of the play surface product shall be completed by Manufacturer Certified Contractors or by direct employees of the Manufacturer's Installation Division.
- B. Manufacturer Qualifications: Manufacturer shall have installed playground surfacing systems for a minimum of five (5) years with no fewer than five (5) similar projects in scale.
- C. Standards and Guidelines: Provide playground equipment and resilient surfacing complying with or exceeding requirements in the following:
  - CPSC No. 325, "Handbook for Public Playground Safety."

#### 1.6 COORDINATION

- A. Coordinate construction of equipment use zones and fall heights during installation of playground equipment with installation of resilient surfacing specified herein. Sequence work so resilient surfacing can be installed immediately after equipment installation is complete.
- B. Concrete footings have been identified in the Division 11- "Playground Equipment" specification as held 12" below finished grade within all protective play surfacing conditions. Account for any related impacts on overall footing depth and quantity of surfacing material to achieve CPSC guidelines.

#### PART 2 - PRODUCTS

#### 2.1 PRODUCTS

- A. Products: Subject to compliance with requirements, provide CPSC-compliant surfacing systems as indicated in the Drawings.
- B. Manufacturer: Subject to compliance with requirements, provide ADA-compliant playground surfacing products by the following manufacturers, or approved equal prior to bidding.
  - 1. ForeverLawn, North Canton, OH, 866.992.7876
    - a. Product: Playground Grass Ultra
  - 2. Approved Equal: Perfect Turf
    - a. PlayGround Turf 55™, Rolling Meadows, IL

- 3. T°Cool® Cincinnati, OH, 513.580.4115
  - a. Product: T°Cool®, Comply with manufacturers instructions for installation.
- C. Colors: As selected by Landscape Architect from manufacturer's full range for resilient applications.

#### 2.2 SYNTHETIC TURF

- A. Description: As recognized and approved by CPSC Guidelines and ADA Standards, free of chemicals or stains that might be toxic to users or able to transfer onto clothing or shoes.
  - 1. General Description: All necessary material components and application shall be required to install a synthetic turf system. The turf system shall be composed of synthetic carpet wearing course filled with sand ballast and an impact attenuation pad underneath.
  - Quality Assurance: The turf manufacturer shall have manufactured and marketed this system in the United States for a period of five (5) years. Install should be by a "certified" installer or by a competent installer using the instructions provided by the manufacturer. The turf system shall be designed to meet current ADA, CPSC and ASTM requirements. Acceptable substrates are: compacted crushed stone or other materials approved by the manufacturer.
  - 3. Submittals: Samples shall be submitted in all the colors available.
  - 4. Delivery, Storage and Handling: All materials shall be delivered in good condition in its original unopened package, bound and shrink wrapped with labels intact. All materials shall be protected from weather and the adhesive shall be stored on temperature of 40 degrees F or greater.
  - 5. Job Conditions: At the time of application ambient air temperature shall be 40 degrees F or greater. All materials shall be un-stacked and laid out prior to installation. All materials shall be protected from weather and other damage prior to application, during application and while glue is curing.
  - 6. Alternatives: The owner/architect shall approve any system or series prior to the bid date. Alternate information and samples shall be provided in writing. The series to be considered equal must meet the "Playground Grass Ultra" by ForeverLawn Inc..
  - 7. Products: All components of the turf system shall be obtained from the turf manufacturer or its authorized distributors and shall be manufactured in the United States of America, and meet the standard specifications set herein.
  - 8. Materials:
    - a. Pile Weight: 48 oz. per square foot or substantially similar and approved prior to bidding.
    - b. Yarn Types/Sizes:
      - 1) Primary Fiber: Polyethylene Slit film or Monofilament;
      - 2) Secondary Fiber: monofilament thatch layer, polyethylene or nylon.
      - 3) Provide data with micron ratings and validation of yarn types for consideration of the Landscape Architect prior to bidding.
    - c. Pile Height: Consistent 1 5/8" height throughout all areas of the play surface.
    - d. Construction Method: Broadloom Tufted, 3/8" tufting gauge or as approved in submitted samples.
    - e. Primary/Secondary Backing: 13 Pic Polybac / US80NW or equal Non-woven /18 Pic Polybac or as approved in submitted samples.
    - f. Total Product Weight: 113 oz. / sq. yard or substantially similar and approved prior to bidding.
    - g. Seams: Seams shall be glued. Mechanically bonded or stitched seams shall be approved in submitted samples.
    - h. Fill Requirement: Unless otherwise listed below, encapsulated sand, **T°Cool**® or crumb rubber per manufacturer's recommended weight.

- i. Impact Attention Pad: Pad shall be obtained from the turf manufacturer or its authorized distributor. Pad materials shall be either foam or rubber. Thickness for under play equipment shall be sized to meet or exceed critical fall height of play equipment throughout the use zone compliant to ASTM 1292. Thickness of pad for areas outside of play equipment use zone shall be sized to meet or exceed critical fall height of 6'-0" compliant to ASTM 1292.
- 9. Testing: All turf shall meet the current guidelines from ASTM, CPSC, USGBC-LEED and ADA for fall height, weathering(Aging), Spread of Flames, Skid Resistance, ADA, Lead Content, R-Value, Reflectance/SRI & Emittance, Water Penetration and USGBC.
- 10. Warranty: The manufacturer shall provide a standard five (5) year warranty or a ten (10) year pro-rated warranty.

#### PART 3 - EXECUTION

#### 3.1 PREPARATION

- A. The sub-base of the entire area to be surfaced shall be cleared of any foreign materials and treated with sterilizing spray products to completely eliminate growth of grass, weeds, etc.
- B. Protect all adjacent trees, equipment, pavement and wall surfaces from damage during surfacing installation.

#### 3.2 INSTALLATION

- A. General: Comply with manufacturer's written installation instructions, unless more stringent requirements are indicated.
  - 1. Maximum Equipment Height: Coordinate installed heights of equipment and components with installation of resilient surfacing.
- B. Excavate area to dimensions and depth as indicated in the Drawings. Confirm use zone for each play structure with manufacturer's coordination drawings.
- C. The native sub-base shall be graded to allow for proper drainage that will prevent sub-base erosion.
- D. The native sub-base shall be compacted to a 95% rating.
- E. Carefully coordinate the finished grade of the subbase as it relates to the required fall height above. The Contractor will be accountable for achieving all required safety criteria.
- F. Plastic play-surface container curbing (only required when denoted in Plans) shall be installed at the perimeter of areas not bounded by concrete slabs or asphalt pavement. Curbing shall be set at an acceptable grade level to permit proper drainage. Example products include 4' x 12" x 4" TuffTimbers with 30"-long with galvanized steel stakes to hold timbers in place, as manufactured by Landscape Structures, Inc.
- G. Crushed Stone Base: Installation of a minimum four (4) inch layer of #8 crushed stone shall be completed and compacted to a 95% rating and a  $\pm \frac{1}{4}$ " level when measured with a ten foot straight edge in any direction.

- H. Separation Fabric: A non-woven geotextile fabric shall be applied over the compacted and graded stone sub-base. The application of the poured in-place system shall be applied over the geotextile membrane.
- The system installer shall inspect the above work prior to installation of resilient surfacing materials.
- J. Resilient Surface System: Install in strict accordance with manufacturer's instructions, approved shop drawings and submittals, complying with critical fall height requirements. Carefully coordinate depths with the General Contractor to ensure the proper quantity of material is understood.
- K. Ensure the finished surface is fully accessible and compliant with ADA guidelines. Take care to properly compact all transitions from protective to paved surfacing.

#### 3.3 FIELD QUALITY CONTROL

- A. Arrange for manufacturer's technical personnel to inspect playground surfacing during installation and at final completion and to certify compliance with the following applicable standards.
  - 1. CPSC No. 325, "Handbook for Public Playground Safety."
  - 2. ASTM F 1487.
- B. Notify Landscape Architect and Owner 48 hours in advance of date and time of final inspection.

#### 3.4 CLEANING

A. After completing surface installation, inspect the entire area. Remove debris and repair or replace effective materials.

END OF SECTION 32 18 16



## GENERAL REFLECTED CEILING PLAN NOTES

A. SEE THE ELECTRICAL DRAWINGS FOR SIZES, TYPES, AND QUANTITIES OF LIGHT FIXTURES, SPEAKERS, SMOKE DETECTORS, AND OTHER CEILING MOUNTED ELECTRICAL DEVICES. B. SEE THE MECHANICAL DRAWINGS FOR SIZES, TYPES, AND

QUANTITIES OF DIFFUSERS, GRILLES, AND OTHER MECHANICAL CEILING MOUNTED DEVICES. PROVIDE, FIELD LOCATE AND INSTALL 16"x16" FLUSH ACCESS

PANELS AT ALL MECHANICAL AND PLUMBING PIPING VALVE LOCATIONS ABOVE SUSPENDED GYPSUM BOARD CEILINGS. SEE THE MECHANICAL, AND PLUMBING DRAWINGS FOR LOCATIONS. D. SEE THE STRUCTURAL DRAWINGS FOR MASONRY WALLS USED FOR

SHEAR WALLS THAT ARE REQUIRED TO EXTEND TO DECK/STRUCTURE ABOVE. PROVIDE BRACING FOR ALL MASONRY WALLS NOT EXTENDING TO THE DECK/STRUCTURE AS DETAILED ON STRUCTURAL DRAWINGS.

METAL STUDS WALLS SHALL BE ATTACHED TO THE STRUCTURE ABOVE WITH SLIP CONNECTORS. STUD WALLS NOT EXTENDING TO THE STRUCTURE/DECK ABOVE SHALL RECEIVE DIAGONAL METAL

STUD BRACING AT MAXIMUM 4'-0" O.C THE SUSPENDED ACOUSTICAL TILE CEILING GRID AS SHOWN ON THESE DRAWINGS IS REPRESENTATIONAL. THE CEILING GRID IS TO BROKEN AS REQUIRED AT LIGHT FIXTURES, PROJECTION SCREENS,

G. ALL EXISTING GYPSUM OR PLASTER CEILINGS AND BULKHEADS TO REMAIN ARE TO BE PAINTED (P9) CEILING BRIGHT WHITE UNLESS NOTED OTHERWISE (SEE A800 SERIES DRAWINGS). H. SEE MECHANICAL, PLUMBING AND ELECTRICAL DOCUMENTS FOR ADDITIONAL CEILING WORK REQUIRED BY NEW MEP WORK.

## REFLECTED CEILING LEGEND

FLUORESCENT LIGHT FIXTURES, RECESSED OR SURFACED MOUNTED, SEE ELECTRICAL DRAWINGS DOWNLIGHT/HIGH BAY LIGHT FIXTURE; SEE ELECTRICAL CEILING MOUNTED PROJECTOR, SEE TECHNOLOGY DRAWINGS RETURN/EXHAUST GRILL; SEE MECHANICAL DRAWINGS

LINEAR SLOT SUPPLY AIR GRILL; SEE MECHANICAL DRAWINGS SUSPENDED ACOUSTICAL LAY-IN CEILING MFG: ARMSTRONG MODEL #1713 + CL1 STYLE: SCHOOL ZONE HIGH CAC, HIGH NRC

SUPPLY AIR GRILL; SEE MECHANICAL DRAWINGS

LOCATION: CLASSROOMS SUSPENDED ACOUSTICAL LAY-IN CEILING MFG: ARMSTRONG MODEL #1717 + CL2 STYLE: SCHOOL ZONE HIGH CAC, HIGH NRC DESCRIPTION: SQUARE TEGULAR COLOR: WHITE SIZE: 24" x 24" x 3/4"

LOCATION: DISCOVERY CENTER

☐ DESCRIPTION: SQUARE EDGE

COLOR: WHITE SIZE: 24" x 24" x 3/4"

SUSPENDED ACOUSTICAL LAY-IN CEILING MFG: ARMSTRONG MODEL #1935 CL3 STYLE: ULTIMA HEALTH ZONE ☐ DESCRIPTION: SQUARE EDGE COLOR: WHITE SIZE: 2' x 2' x 3/4" LOCATION: RESTROOMS/KITCHENS/CLINICS/VESTIBULES

GYPSUM WALLBOARD BULKHEAD PAINT: SEE A800 SERIES FINISH PLANS.

\_\_\_ SUSPENDED GYPSUM WALLBOARD CEILING SYSTEM CL5 USE 5/8" WALLBOARD PAINT: (P9) CEILING BRIGHT WHITE, UNLESS OTHERWISE NOTED.

CL7 COMPOSITE METAL PANEL SOFFIT ASSEMBLY. SEE SECTIONS FOR MORE INFORMATION

CL6 EXPOSED STRUCTURE - PAINTED

LINEAR FELT BAFFLE SYSTEM CL8 MFG: TURF STYLE: MICROSLAB DESCRIPTION: SEE SPECS COLOR: D007 WALNUT WITH ACCENT COLOR. SEE FINISH PLANS.

> SUSPENSION SYSTEM PAINTED BLACK CEILING ELEVATION MARK ABOVE FINISHED FLOOR (AT THAT LOCATION IF MULTIPLE FLOOR LEVELS ARE PRESENT)

LOCATION: ACTIVITY AREAS SIZE: CUSTOM

# REFLECTED CEILING PLAN NOTES

ALIGN BULKHEAD WITH WALL BELOW. SENSORY ROOM SWING, SEE STRUCTURAL DRAWINGS FOR ATTACHMENT DETAIL. 12" EXTRUDED ALUMINUM TRIM.

EXPOSED STRUCTURE ABOVE

4 KILN VENT IN THIS ROOM, COORDINATE WITH MEP DRAWINGS AS REQUIRED 5 SEE TYPICAL CEILING DETAIL 1/A213.

CUBICLE CURTAIN AND TRACK. COORDINATE TRACK LOCATION WITH LIGHTS, GRILLES, SPRINKLER HEADS, ETC. FOR CUBICAL CURTAIN FINISH, SEE A800 GENERAL FINISH

ALIGN FINISH FACES.

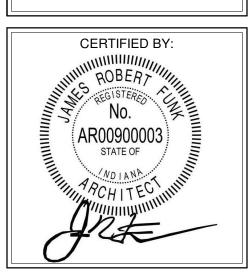
8 8" PERIMETER EXTRUDED ALMINUM TRIM. SEE TYPICAL CEILING DETAIL 2/A213.

9 SEE TYPICAL CEILING DETAIL 4/A213. 10 SUSPENDED SOUND ABSORBING PANELS BY SNOWSOUND. SEE A800 FOR FINISH INFORMATION (APF2). REFER TO A900 SERIES FOR TAG INFORMATION.

SUSPENDED SOUND ABSORBING PANELS BY SNOWSOUND. SEE A800 FOR FINISH INFORMATION (APF3). CEILING MOUNTED PROJECTOR IN THIS LOCATION. REFER TO A900 SERIES FOR TAG

> ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2024 JNC ECN

DRAWING TITLE: FIRST FLOOR REFLECTED **CEILING PLAN** 



DRAWING NUMBER A211A PROJECT NUMBER 2021119

Hamilton
Southeastern
Schools

0 RENOVATIONS 1 台里 AMILTO ADDIT FISI

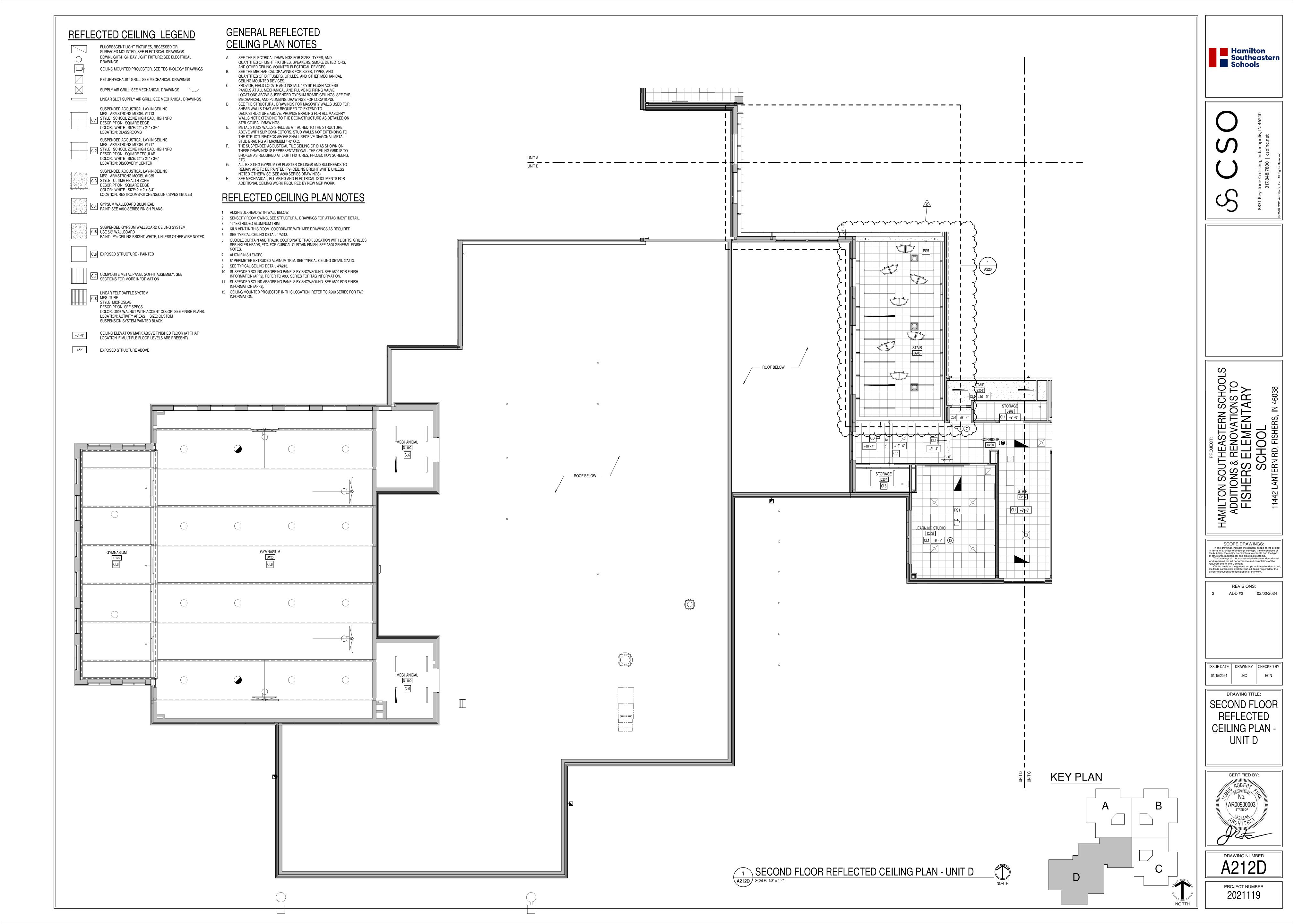
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

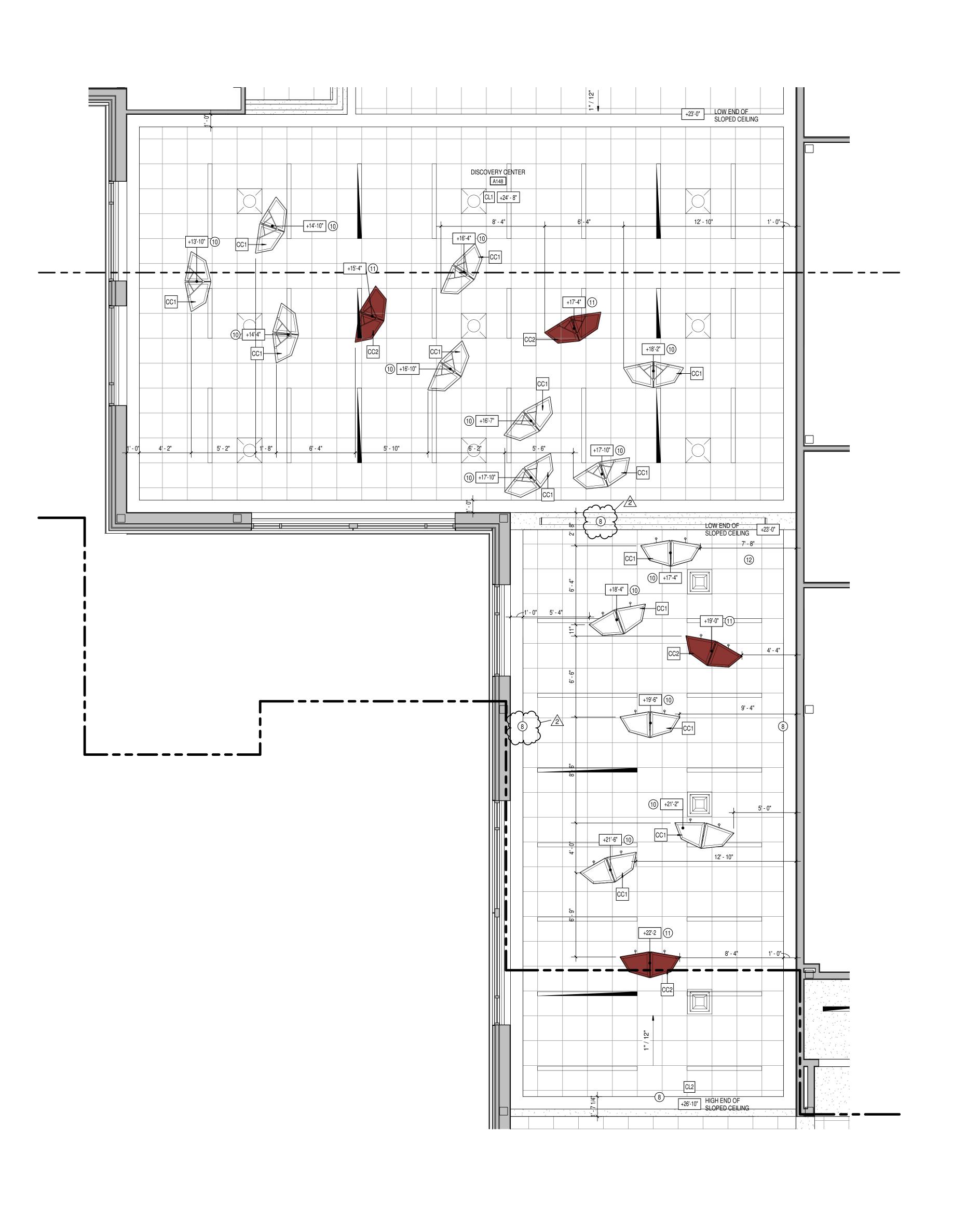
The drawings do not necessarily indicate or describe all work required for full performance and completion of the work required for full performance and completion of the requirements of the Contract.

On the basis of the general scope indicated or descri the trade contractors shall furnish all items required for the proper execution and completion of the work. REVISIONS:

ADD #2 02/02/2024

SCOPE DRAWINGS:





## GENERAL REFLECTED CEILING PLAN NOTES

- A. SEE THE ELECTRICAL DRAWINGS FOR SIZES, TYPES, AND QUANTITIES OF LIGHT FIXTURES, SPEAKERS, SMOKE DETECTORS, AND OTHER CEILING MOUNTED ELECTRICAL DEVICES. B. SEE THE MECHANICAL DRAWINGS FOR SIZES, TYPES, AND
- QUANTITIES OF DIFFUSERS, GRILLES, AND OTHER MECHANICAL CEILING MOUNTED DEVICES.
- PROVIDE, FIELD LOCATE AND INSTALL 16"x16" FLUSH ACCESS PANELS AT ALL MECHANICAL AND PLUMBING PIPING VALVE LOCATIONS ABOVE SUSPENDED GYPSUM BOARD CEILINGS. SEE THE MECHANICAL, AND PLUMBING DRAWINGS FOR LOCATIONS.
- D. SEE THE STRUCTURAL DRAWINGS FOR MASONRY WALLS USED FOR SHEAR WALLS THAT ARE REQUIRED TO EXTEND TO DECK/STRUCTURE ABOVE. PROVIDE BRACING FOR ALL MASONRY
- METAL STUDS WALLS SHALL BE ATTACHED TO THE STRUCTURE ABOVE WITH SLIP CONNECTORS. STUD WALLS NOT EXTENDING TO THE STRUCTURE/DECK ABOVE SHALL RECEIVE DIAGONAL METAL
- STUD BRACING AT MAXIMUM 4'-0" O.C. THE SUSPENDED ACOUSTICAL TILE CEILING GRID AS SHOWN ON THESE DRAWINGS IS REPRESENTATIONAL. THE CEILING GRID IS TO BROKEN AS REQUIRED AT LIGHT FIXTURES, PROJECTION SCREENS,
- G. ALL EXISTING GYPSUM OR PLASTER CEILINGS AND BULKHEADS TO REMAIN ARE TO BE PAINTED (P9) CEILING BRIGHT WHITE UNLESS NOTED OTHERWISE (SEE A800 SERIES DRAWINGS). H. SEE MECHANICAL, PLUMBING AND ELECTRICAL DOCUMENTS FOR

ADDITIONAL CEILING WORK REQUIRED BY NEW MEP WORK.

FLUORESCENT LIGHT FIXTURES, RECESSED OR SURFACED MOUNTED, SEE ELECTRICAL DRAWINGS DOWNLIGHT/HIGH BAY LIGHT FIXTURE; SEE ELECTRICAL CEILING MOUNTED PROJECTOR, SEE TECHNOLOGY DRAWINGS

RETURN/EXHAUST GRILL; SEE MECHANICAL DRAWINGS

SUSPENDED ACOUSTICAL LAY-IN CEILING

STYLE: SCHOOL ZONE HIGH CAC, HIGH NRC DESCRIPTION: SQUARE EDGE COLOR: WHITE SIZE: 24" x 24" x 3/4" LOCATION: CLASSROOMS

> LOCATION: DISCOVERY CENTER MFG: ARMSTRONG MODEL #1935 CL3 STYLE: ULTIMA HEALTH ZONE

\_\_\_\_ SUSPENDED GYPSUM WALLBOARD CEILING SYSTEM CL5 USE 5/8" WALLBOARD

CL6 EXPOSED STRUCTURE - PAINTED

SECTIONS FOR MORE INFORMATION

DESCRIPTION: SEE SPECS COLOR: D007 WALNUT WITH ACCENT COLOR. SEE FINISH PLANS. LOCATION: ACTIVITY AREAS SIZE: CUSTOM SUSPENSION SYSTEM PAINTED BLACK

LOCATION IF MULTIPLE FLOOR LEVELS ARE PRESENT)

REFLECTED CEILING PLAN NOTES

ALIGN BULKHEAD WITH WALL BELOW.

- SENSORY ROOM SWING, SEE STRUCTURAL DRAWINGS FOR ATTACHMENT DETAIL.
- 5 SEE TYPICAL CEILING DETAIL 1/A213.
- 8 8" PERIMETER EXTRUDED ALMINUM TRIM. SEE TYPICAL CEILING DETAIL 2/A213.
- 10 SUSPENDED SOUND ABSORBING PANELS BY SNOWSOUND. SEE A800 FOR FINISH
- INFORMATION (APF2). REFER TO A900 SERIES FOR TAG INFORMATION.
- 11 SUSPENDED SOUND ABSORBING PANELS BY SNOWSOUND. SEE A800 FOR FINISH
- 12 CEILING MOUNTED PROJECTOR IN THIS LOCATION. REFER TO A900 SERIES FOR TAG

INFORMATION.

ISSUE DATE DRAWN BY CHECKED BY 01/15/2024 JNC ECN

AMILTON SOUTH ADDITIONS & F FISHERS E SC 11442 LANTERN F

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

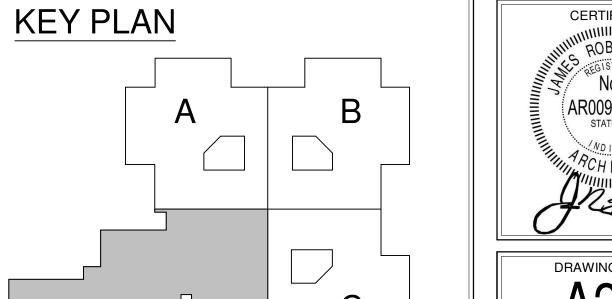
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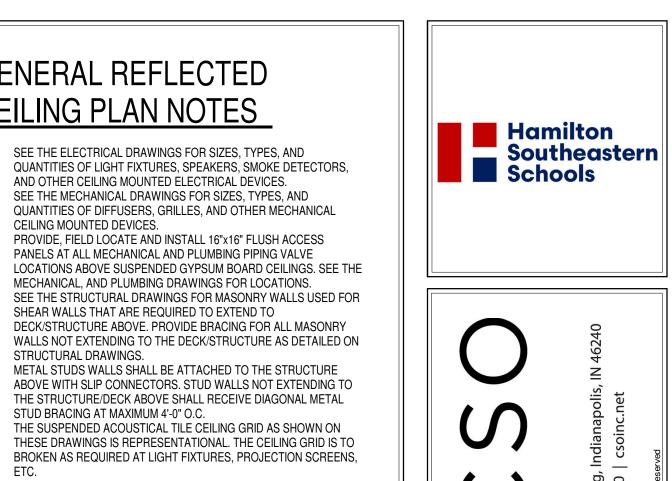
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the

the trade contractors shall furnish all items required for the proper execution and completion of the work.

**REVISIONS:** 

ADD #2 02/02/2024





SUPPLY AIR GRILL; SEE MECHANICAL DRAWINGS LINEAR SLOT SUPPLY AIR GRILL; SEE MECHANICAL DRAWINGS MFG: ARMSTRONG MODEL #1713 SUSPENDED ACOUSTICAL LAY-IN CEILING MFG: ARMSTRONG MODEL #1717 STYLE: SCHOOL ZONE HIGH CAC, HIGH NRC DESCRIPTION: SQUARE TEGULAR COLOR: WHITE SIZE: 24" x 24" x 3/4" SUSPENDED ACOUSTICAL LAY-IN CEILING ☐ DESCRIPTION: SQUARE EDGE COLOR: WHITE SIZE: 2' x 2' x 3/4" LOCATION: RESTROOMS/KITCHENS/CLINICS/VESTIBULES GYPSUM WALLBOARD BULKHEAD PAINT: SEE A800 SERIES FINISH PLANS. 0 JOVATIONS 1 PAINT: (P9) CEILING BRIGHT WHITE, UNLESS OTHERWISE NOTED.

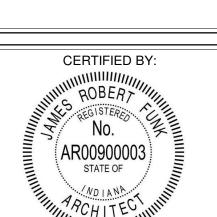
CL7 COMPOSITE METAL PANEL SOFFIT ASSEMBLY. SEE LINEAR FELT BAFFLE SYSTEM CL8 MFG: TURF STYLE: MICROSLAB

CEILING ELEVATION MARK ABOVE FINISHED FLOOR (AT THAT

EXPOSED STRUCTURE ABOVE

- 3 12" EXTRUDED ALUMINUM TRIM. 4 KILN VENT IN THIS ROOM, COORDINATE WITH MEP DRAWINGS AS REQUIRED
- 6 CUBICLE CURTAIN AND TRACK. COORDINATE TRACK LOCATION WITH LIGHTS, GRILLES, SPRINKLER HEADS, ETC. FOR CUBICAL CURTAIN FINISH, SEE A800 GENERAL FINISH
- ALIGN FINISH FACES.
- 9 SEE TYPICAL CEILING DETAIL 4/A213.
- INFORMATION (APF3).

DRAWING TITLE:



DRAWING NUMBER A220 PROJECT NUMBER 2021119

1 ENLARGED DISCOVERY CENTER CEILING PLAN A220 SCALE: 1/4" = 1'-0"

				CASE	WORK SCHEDULE - BA	SE CASEWORK
Type Mark	Description	Spec. Section	Manufacturer	Model	Size	Type Comments
B1	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10374	30"W x 32"H x 24"D	
B2	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10374	36"W x 32"H x 24"D	
B3	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10421	18"W x 32"H x 24"D	
B4	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10129	36"W x 32"H x 24"D	
B5	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10317	15"W x 32"H x 24"D	
B6	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10422	21"W x 32"H x 24"D	
B7	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10512	36"W x 19"H x 24"D	
B9	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10512	36"W x 24"H x 24"D	
B10	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10318	30"W x 29"H x 24"D	
B11	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10129	30"W x 29"H x 24"D	
B12	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10101	18"W x 29"H x 24"D	
B13	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10329	15"W x 29"H x 24"D	
B14	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10316	15"W x 29"H x 24"D	
B15	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10129	24"W x 29"H x 24"D	
B16	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10475	36"W x 29"H x 29"D	
B17	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10432	36"W x 32"H x 24"D	
B18	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10129	27"W x 29"H x 24"D	
B19	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10393	48"W x 29"H x 24"D	
B20	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10430	30"W x 29"H x 24"D	
B21	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10121	15"W x 29"H x 24"D	
B22	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10101	30"W x 20"H x 14"D	CUSTOM DIMENSIONS
B23	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10120	15"W x 29"H x 24"D	
B24	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10129	39"W x 29"H x 24"D	
B25	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10430	27"W x 29"H x 24"D	
B26	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10430	24"W x 29"H x 24"D	
B27	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10101	27"W x 20"H x 14"D	
B28~~~	BASE/CASEWORK///	122600	STEKENS, INDUSTRIES,	10430~~	30"Wx32"Hx24"D~	
B29	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10339	27"W x 32"H x 24"D	3
B30	BASE CASEWORK	12 26 00	STEVENS INDUSTRIES	10339	18"W x 32"H x 24"D	}

				CASE	WORK SCHEDULE - TAL	L CASEWORK
Type Mark	Description	Spec. Section	n Manufacturer	Model	Size	Type Comments
TS1	TALL CASEWORK	12 26 00	STEVENS INDUSTRIES	26129	36"W x 84"H x 24"D	
TS2	TALL CASEWORK	12 26 00	STEVENS INDUSTRIES	25129	36"W x 84"H x 24"D	
TS3	TALL CASEWORK	12 26 00	STEVENS INDUSTRIES	24561	39"W x 59"H x 24"D	
TS4	TALL CASEWORK	12 26 00	STEVENS INDUSTRIES	25680	48"W x 84"H x 24"D	
TS5	TALL CASEWORK	12 26 00	STEVENS INDUSTRIES	25681	48"W x 84"H x 24"D	
TS6	TALL CASEWORK	12 26 00	STEVENS INDUSTRIES	25543	15"W x 88"H x 24"D	
TS7	TALL CASEWORK	12 26 00	STEVENS INDUSTRIES	-	36"W x 58"H x 18"D	CUSTOM STUDENT CUBBIES
TS9	TALL CASEWORK	12 26 00	STEVENS INDUSTRIES	25544	15"W x 88"H x 24"D	
TS10	TALL CASEWORK	12 26 00	STEVENS INDUSTRIES	26129	48"W x 84"H x 24"D	
TS12	TALL CASEWORK	12 26 00	STEVENS INDUSTRIES	26668	36"W x 84"H x 24"D	
TS13	TALL CASEWORK	12 26 00	STEVENS INDUSTRIES	26121	24"W x 84"H x 24"D	
TS15	TALL CASEWORK	12 26 00	STEVENS INDUSTRIES	25561	48"W x 84"H x 24"D	
TS16	TALL CASEWORK	12 26 00	STEVENS INDUSTRIES	25129	33"W x 84"H x 24"D	

				CASEV	VORK SCHEDULE - WAI	_ CASEWORK		
Type Mark	Description	Spec. Section	Manufacturer	Model	Size	Type Comments		
W1	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	16129	30"W x 30"H x 14"D			
W2	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	16129	36"W x 30"H x 14"D			
W3	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15181	48"W x 25"H x 18"D			
W4	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	16120	18"W x 30"H x 14"D			
W5	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15251	36"W x 30"H x 14"D			
W6	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	16129	36"W x 18"H x 14"D			
W7	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15129	39"W x 25"H x 24"D			
W8	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15101	36"W x 30"H x 14"D			
W9	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	16129	24"W x 30"H x 14"D			
W10	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15181	48"W x 30"H x 18"D			
W11	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15129	36"W x 25"H x 18"D			
W12	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15129	36"W x 18"H x 18"D			
W13	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15129	48"W x 25"H x 18"D			
W14	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15129	48"W x 30"H x 18"D			
W15	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15120	15"W x 25"H x 24"D	CUSTOM DIMENSIONS		
W16	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15129	30"W x 25"H x 18"D			
W17	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15129	30"W x 30"H x 18"D			
W19	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15121	15"W x 25"H x 24"D	CUSTOM DIMENSIONS		
W20	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15129	39"W x 30"H x 14"D			
W21	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15129	38"W x 30"H x 14"D	CUSTOM DIMENSIONS		
W22	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15129	27"W x 30"H x 18"D			
W23	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15129	27"W x 25"H x 18"D			
W24	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15121	15"W x 25"H x 18"D			
W25	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15121	15"W x 30"H x 18"D			
W26	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15129	24"W x 30"H x 18"D			
W27	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15129	24"W x 25"H x 18"D			
W28	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15181	48"W x 36"H x 18"D			
W29	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15129	30"W x 36"H x 18"D			

	CASEWORK SCHEDULE - MISCELLANEOUS ITEMS								
Type Mark	Description	Spec. Section	Manufacturer	Model	Size	Type Comments			
FP1	BASE CABINET - FILLER PANEL	12 26 00	STEVENS INDUSTRIES	10805					
FP2	INSTALLATION ACCESSORIES	12 26 00	STEVENS INDUSTRIES	10803					
FP3	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15803					
FP5	FILLER PANEL	12 26 00	STEVENS INDUSTRIES						
FP6	WALL CASEWORK	12 26 00	STEVENS INDUSTRIES	15803					

EXPOSED TO VIEW.

CASEWORK.

- A. PROVIDE FILLER PANELS AT ALL LOCATIONS WHERE CASEWORK IS FLANKED BY WALLS AS REQUIRED TO CLOSE OFF SPACE AND PROVIDE A NEAT, FINISHED INSTALLATION. PROVIDE EQUAL FILLER PANELS AT EITHER SIDE OF
- CASEWORK TO BALANCE APPEARANCE.

  B. PROVDIE FINISHED ENDS AT ALL CABINET SIDES PARTIALLY OR FULLY
- C. SEE INTERIOR CASEWORK ELEVATIONS FOR DOOR SWING.
- D. PROVIDE COUNTER GROMMETS FOR ALL OPEN KNEE-SPACE COUNTERTOP INSTALLATIONS
- E. REFER TO A800 SERIES DRAWINGS FOR FINISHES NOT NOTED ON EQUIPMENT PLANS AND CASEWORK ELEVATIONS.

  F. PROVIDE COUNTERTOP SUPPORTS AT ALL OPEN KNEE SPACE TYP. FOR ALL
- G. SEE REFLECTED CEILING PLANS FOR MOST ACCURATE CEILING HEIGHTS.H. CONFIRM FIELD DIMENSIONS PRIOR TO FABRICATION.
- I. PROVIDE ALL NECESSARY FURRING AND GROUNDS FOR CASEWORK.
  COORDINATE LOCATION OF BLOCKING WITHIN PARTITIONS FOR ITEMS TO BE
  SECURED TO SURFACE. ALL FASTENERS SHALL BE CONCEALED.
- J. CAULK CASEWORK TO ADJOINING FINISHED SURFACES WHERE APPLICABLE.
- K. REFER TO A900 SERIES FOR EQUIPTMENT SCHEDULE AND LOCATIONS.





Keystone Crossing, Indianapolis, IN 46240

8831 Keystone Cr 317.848

ADDITIONS & RENOVATIONS TO FISHERS ELEMENTARY SCHOOL SCHOOL 11442 LANTERN RD, FISHERS, IN 46038

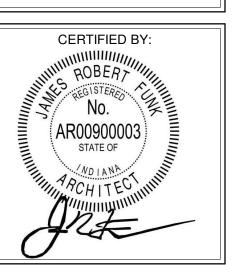
SCOPE DRAWINGS:
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ADD #2 02/02/2024

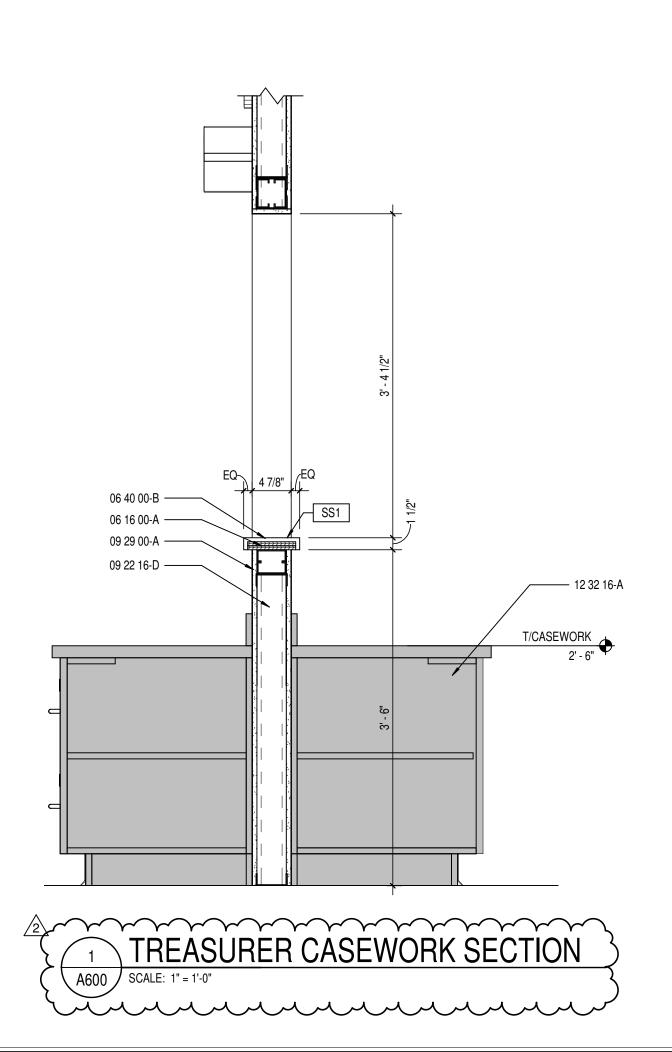
**REVISIONS:** 

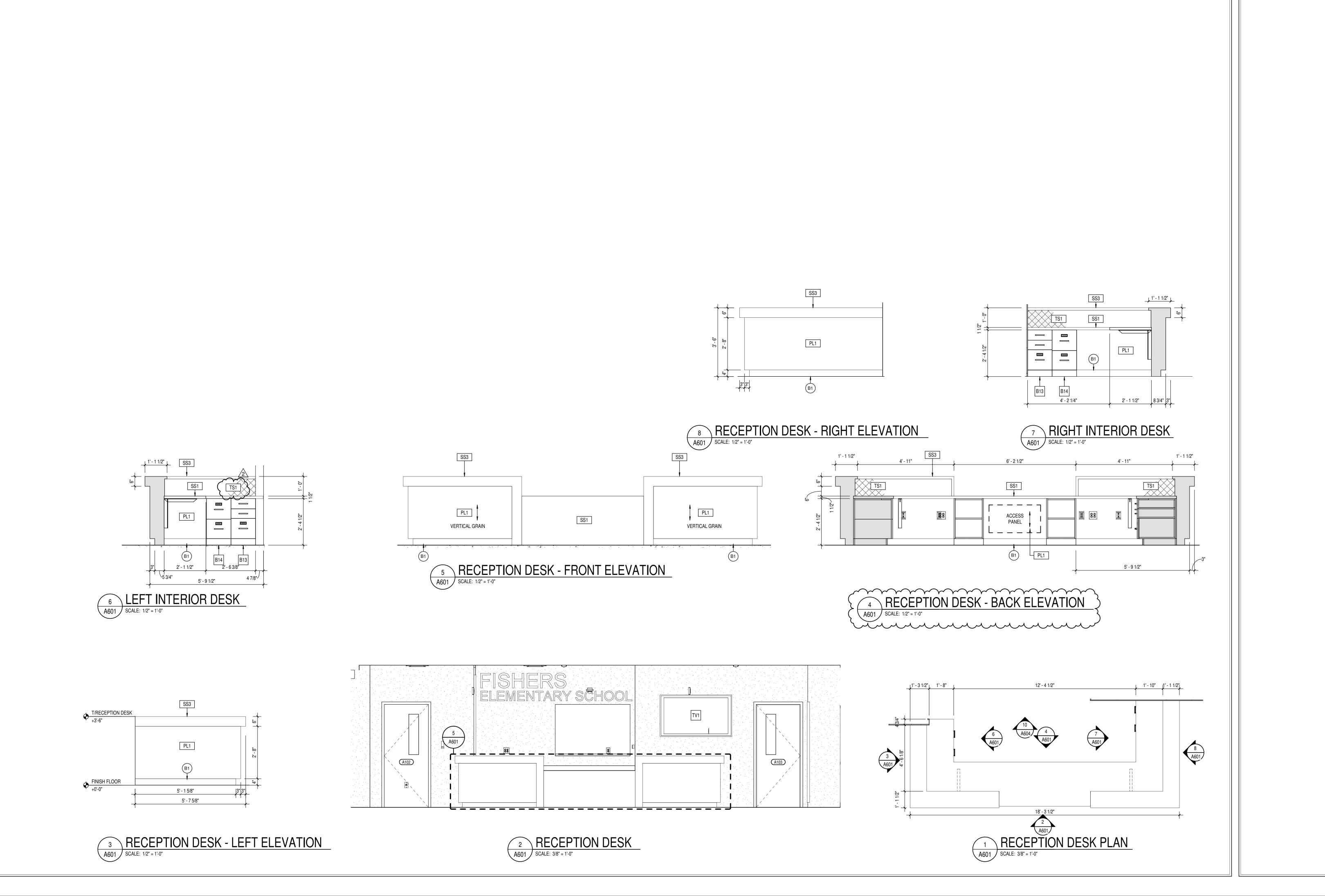
ISSUE DATE DRAWN BY CHECKED BY 01/15/2024 JNC ECN

DRAWING TITLE:
CASEWORK
SCHEDULE



A600





- A. PROVIDE FILLER PANELS AT ALL LOCATIONS WHERE CASEWORK IS FLANKED BY WALLS AS REQUIRED TO CLOSE OFF SPACE AND PROVIDE A NEAT, FINISHED INSTALLATION. PROVIDE EQUAL FILLER PANELS AT EITHER SIDE OF
- CASEWORK TO BALANCE APPEARANCE.

  B. PROVDIE FINISHED ENDS AT ALL CABINET SIDES PARTIALLY OR FULLY EXPOSED TO VIEW.
- C. SEE INTERIOR CASEWORK ELEVATIONS FOR DOOR SWING.
- D. PROVIDE COUNTER GROMMETS FOR ALL OPEN KNEE-SPACE COUNTERTOP INSTALLATIONS.
- E. REFER TO A800 SERIES DRAWINGS FOR FINISHES NOT NOTED ON EQUIPMENT PLANS AND CASEWORK ELEVATIONS.
- F. PROVIDE COUNTERTOP SUPPORTS AT ALL OPEN KNEE SPACE TYP. FOR ALL
- G. SEE REFLECTED CEILING PLANS FOR MOST ACCURATE CEILING HEIGHTS.
- H. CONFIRM FIELD DIMENSIONS PRIOR TO FABRICATION.I. PROVIDE ALL NECESSARY FURRING AND GROUNDS FOR CASEWORK.
- SECURED TO SURFACE. ALL FASTENERS SHALL BE CONCEALED.

  J. CAULK CASEWORK TO ADJOINING FINISHED SURFACES WHERE APPLICABLE.
- K. REFER TO A900 SERIES FOR EQUIPTMENT SCHEDULE AND LOCATIONS.

COORDINATE LOCATION OF BLOCKING WITHIN PARTITIONS FOR ITEMS TO BE

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HAMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
11442 LANTERN RD, FISHERS, IN 46038

SCOPE DRAWINGS:

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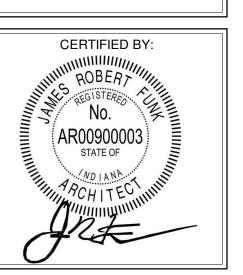
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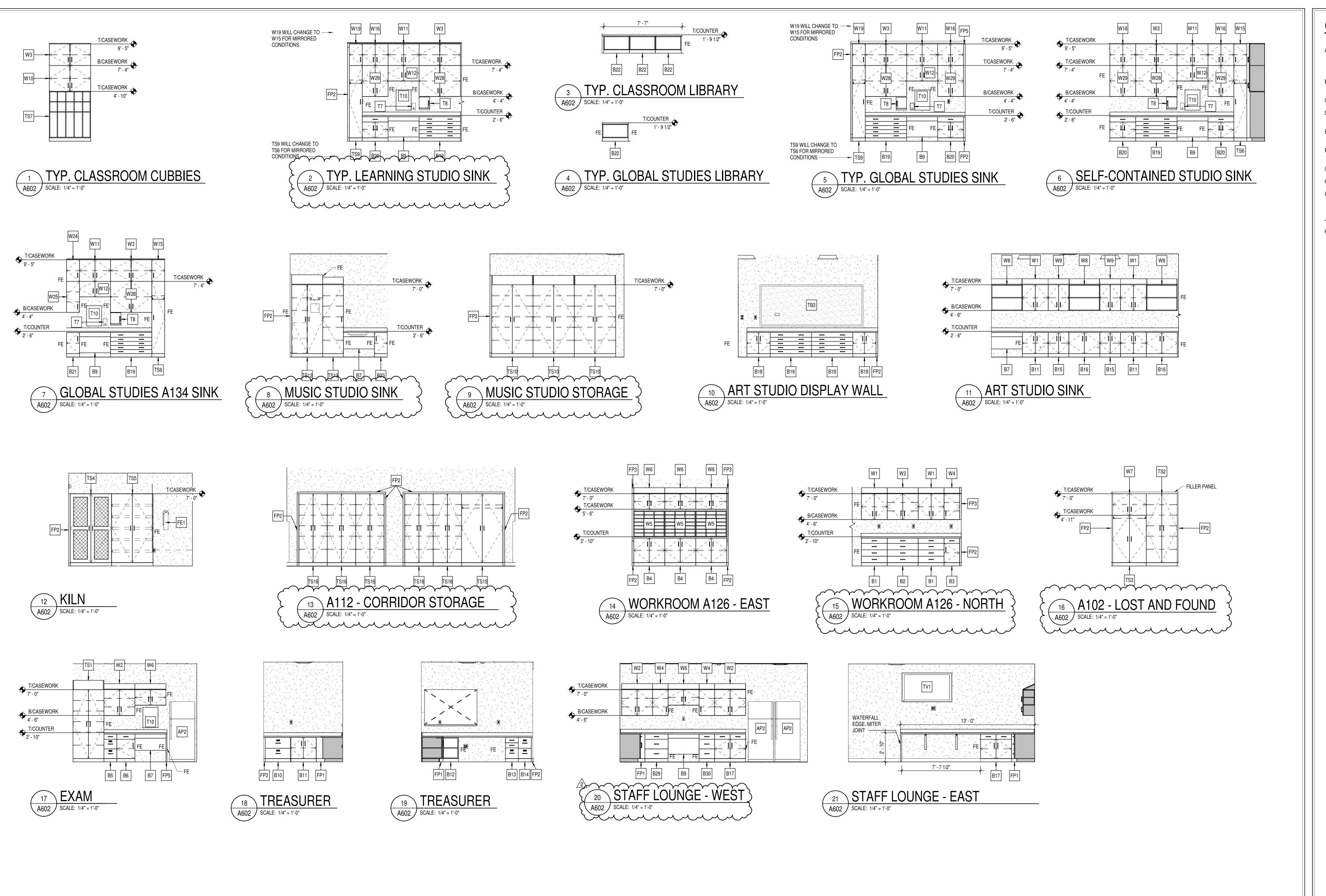
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CASEWORK
ELEVATIONS
AND MILLWORK
DETAILS



A601



- A. PROVIDE FILLER PANELS AT ALL LOCATIONS WHERE CASEWORK IS FLANKED BY WALLS AS REQUIRED TO CLOSE OFF SPACE AND PROVIDE A NEAT, FINISHED INSTALLATION. PROVIDE EQUAL FILLER PANELS AT EITHER SIDE OF CASEWORK TO BALANCE APPEARANCE.
  - PROVDIE FINISHED ENDS AT ALL CABINET SIDES PARTIALLY OR FULLY EXPOSED TO VIEW.
- C. SEE INTERIOR CASEWORK ELEVATIONS FOR DOOR SWING.
- D. PROVIDE COUNTER GROMMETS FOR ALL OPEN KNEE-SPACE COUNTERTOP INSTALLATIONS.
- E. REFER TO A800 SERIES DRAWINGS FOR FINISHES NOT NOTED ON EQUIPMENT PLANS AND CASEWORK ELEVATIONS.
- PROVIDE COUNTERTOP SUPPORTS AT ALL OPEN KNEE SPACE TYP. FOR ALL CASEWORK.
- G. SEE REFLECTED CEILING PLANS FOR MOST ACCURATE CEILING HEIGHTS.H. CONFIRM FIELD DIMENSIONS PRIOR TO FABRICATION.
- PROVIDE ALL NECESSARY FURRING AND GROUNDS FOR CASEWORK.
  COORDINATE LOCATION OF BLOCKING WITHIN PARTITIONS FOR ITEMS TO BE
- SECURED TO SURFACE. ALL FASTENERS SHALL BE CONCEALED.

  CAULK CASEWORK TO ADJOINING FINISHED SURFACES WHERE APPLICABLE.
- K. REFER TO A900 SERIES FOR EQUIPTMENT SCHEDULE AND LOCATIONS.

REFER TO A900 SERIES FOR EQUIPTMENT SCHEDULE AND LOCATIONS.

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HAMILTON SOUTHEASTERN SCHOOL
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
11442 LANTERN RD, FISHERS, IN 46038

SCOPE DRAWINGS:

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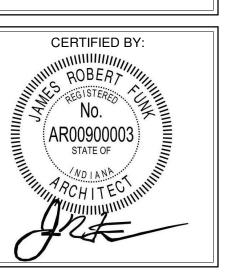
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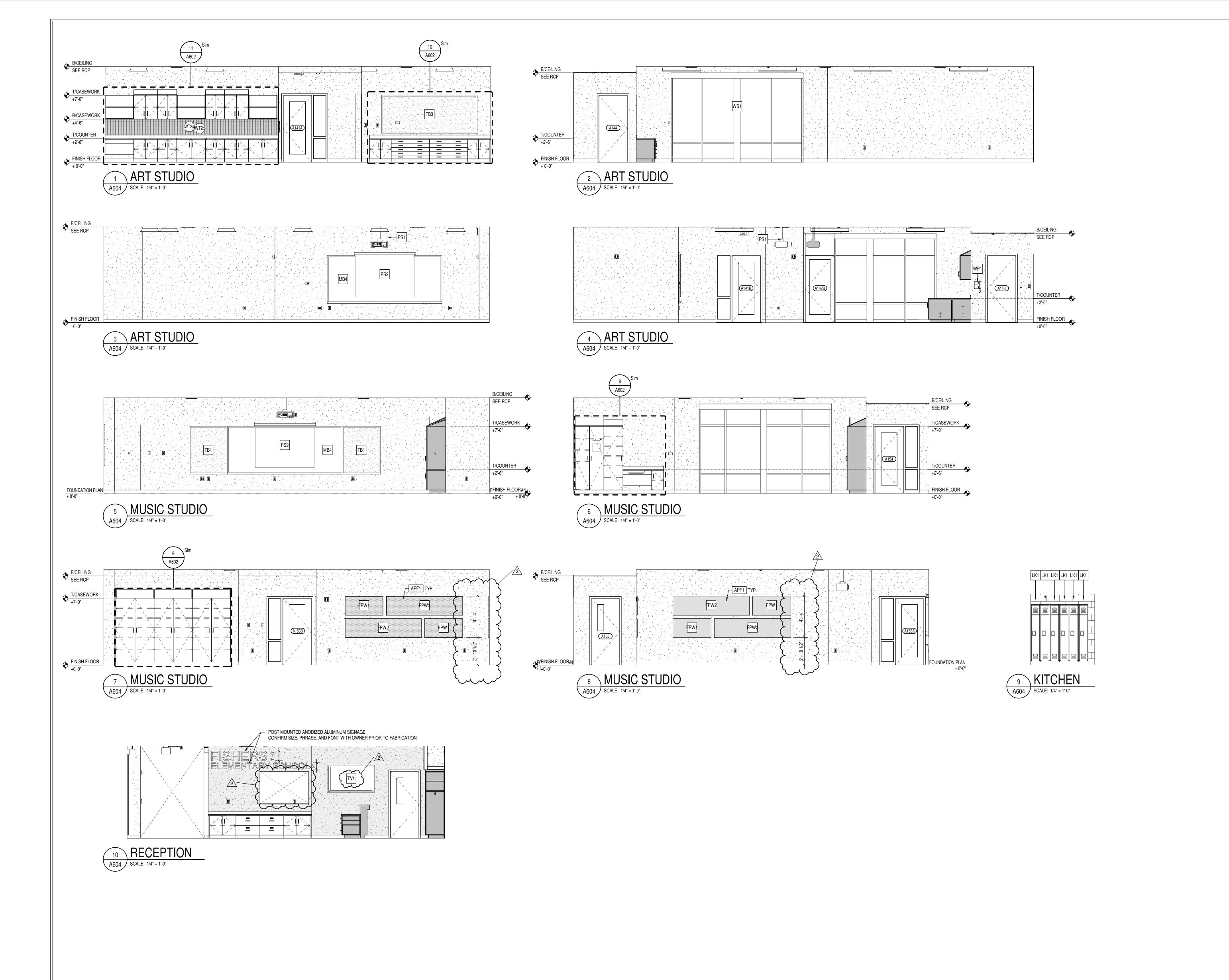
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CASEWORK ELEVATIONS



A602



- A. PROVIDE FILLER PANELS AT ALL LOCATIONS WHERE CASEWORK IS FLANKED BY WALLS AS REQUIRED TO CLOSE OFF SPACE AND PROVIDE A NEAT, FINISHED INSTALLATION. PROVIDE EQUAL FILLER PANELS AT EITHER SIDE OF CASEWORK TO BALANCE APPEARANCE.
- PROVDIE FINISHED ENDS AT ALL CABINET SIDES PARTIALLY OR FULLY EXPOSED TO VIEW.
- C. SEE INTERIOR CASEWORK ELEVATIONS FOR DOOR SWING.
- D. PROVIDE COUNTER GROMMETS FOR ALL OPEN KNEE-SPACE COUNTERTOP INSTALLATIONS.
- E. REFER TO A800 SERIES DRAWINGS FOR FINISHES NOT NOTED ON EQUIPMENT PLANS AND CASEWORK ELEVATIONS.
- PROVIDE COUNTERTOP SUPPORTS AT ALL OPEN KNEE SPACE TYP. FOR ALL
- G. SEE REFLECTED CEILING PLANS FOR MOST ACCURATE CEILING HEIGHTS.H. CONFIRM FIELD DIMENSIONS PRIOR TO FABRICATION.
- PROVIDE ALL NECESSARY FURRING AND GROUNDS FOR CASEWORK.
  COORDINATE LOCATION OF BLOCKING WITHIN PARTITIONS FOR ITEMS TO BE SECURED TO SURFACE. ALL FASTENERS SHALL BE CONCEALED.
- J. CAULK CASEWORK TO ADJOINING FINISHED SURFACES WHERE APPLICABLE.
- K. REFER TO A900 SERIES FOR EQUIPTMENT SCHEDULE AND LOCATIONS.



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HAMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
11442 LANTERN RD, FISHERS, IN 46038

SCOPE DRAWINGS:

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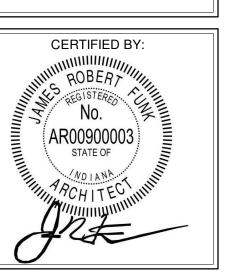
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On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

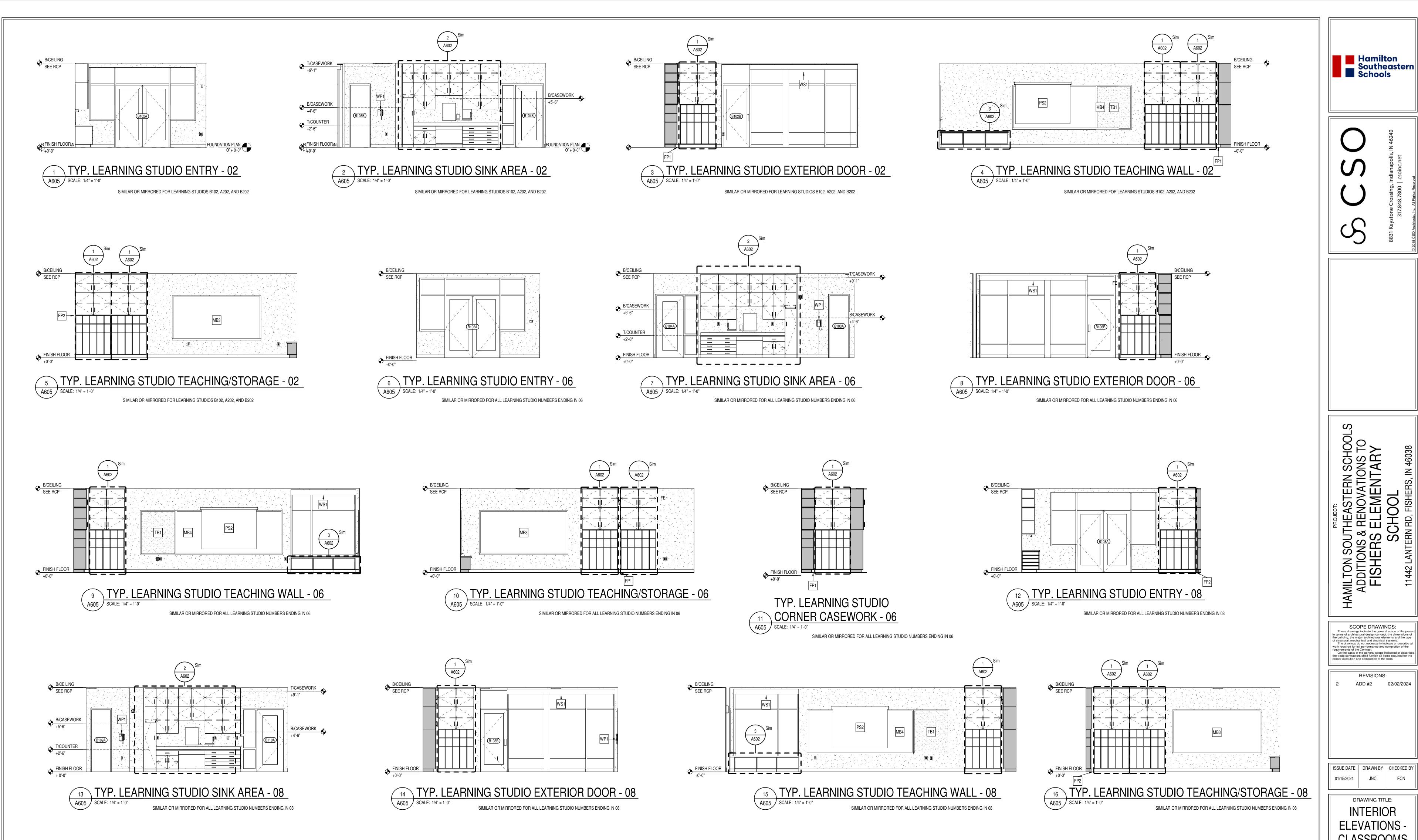
REVISIONS: 2 ADD #2 02/02/2024

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INTERIOR
ELEVATIONS



A604





JOVATIONS TO EMENTARY HAMILTON SOUTTING
ADDITIONS & REN
FISHERS ELE
SCHC
11442 LANTERN RD, F

**REVISIONS:** ADD #2 02/02/2024

| ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2024

DRAWING TITLE: **INTERIOR ELEVATIONS** -CLASSROOMS

CERTIFIED BY:

DRAWING NUMBER

PROJECTNÚMBER

COORDINATE LOCATION OF BLOCKING WITHIN PARTITIONS FOR ITEMS TO BE

**GENERAL CASEWORK NOTES** 

B. PROVDIE FINISHED ENDS AT ALL CABINET SIDES PARTIALLY OR FULLY

D. PROVIDE COUNTER GROMMETS FOR ALL OPEN KNEE-SPACE COUNTERTOP

E. REFER TO A800 SERIES DRAWINGS FOR FINISHES NOT NOTED ON EQUIPMENT

F. PROVIDE COUNTERTOP SUPPORTS AT ALL OPEN KNEE SPACE TYP. FOR ALL

G. SEE REFLECTED CEILING PLANS FOR MOST ACCURATE CEILING HEIGHTS.

I. PROVIDE ALL NECESSARY FURRING AND GROUNDS FOR CASEWORK.

SECURED TO SURFACE. ALL FASTENERS SHALL BE CONCEALED.

C. SEE INTERIOR CASEWORK ELEVATIONS FOR DOOR SWING.

CASEWORK TO BALANCE APPEARANCE.

PLANS AND CASEWORK ELEVATIONS.

H. CONFIRM FIELD DIMENSIONS PRIOR TO FABRICATION.

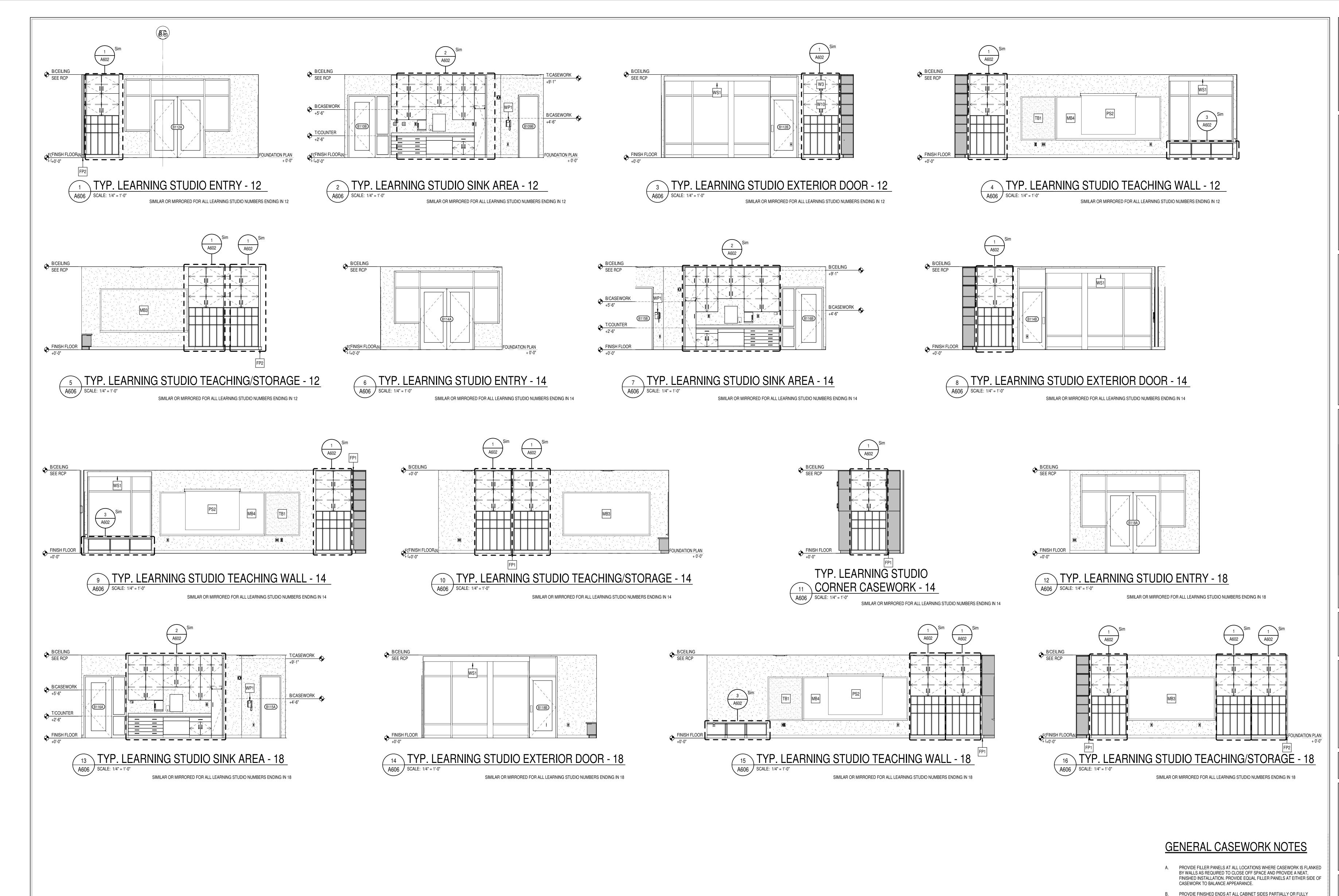
EXPOSED TO VIEW.

INSTALLATIONS.

A. PROVIDE FILLER PANELS AT ALL LOCATIONS WHERE CASEWORK IS FLANKED

FINISHED INSTALLATION. PROVIDE EQUAL FILLER PANELS AT EITHER SIDE OF

J. CAULK CASEWORK TO ADJOINING FINISHED SURFACES WHERE APPLICABLE. K. REFER TO A900 SERIES FOR EQUIPTMENT SCHEDULE AND LOCATIONS.



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STERN SCHOOL SOLVE TO STORY SINENTARY HAMILTON SOUTH RENADITIONS & RENFISHERS ELESHCHC

**REVISIONS:** ADD #2 02/02/2024

| ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2024

DRAWING TITLE: **INTERIOR ELEVATIONS** -CLASSROOMS

CERTIFIED BY:

EXPOSED TO VIEW.

INSTALLATIONS.

C. SEE INTERIOR CASEWORK ELEVATIONS FOR DOOR SWING.

PLANS AND CASEWORK ELEVATIONS.

H. CONFIRM FIELD DIMENSIONS PRIOR TO FABRICATION.

D. PROVIDE COUNTER GROMMETS FOR ALL OPEN KNEE-SPACE COUNTERTOP

E. REFER TO A800 SERIES DRAWINGS FOR FINISHES NOT NOTED ON EQUIPMENT

F. PROVIDE COUNTERTOP SUPPORTS AT ALL OPEN KNEE SPACE TYP. FOR ALL

G. SEE REFLECTED CEILING PLANS FOR MOST ACCURATE CEILING HEIGHTS.

I. PROVIDE ALL NECESSARY FURRING AND GROUNDS FOR CASEWORK.

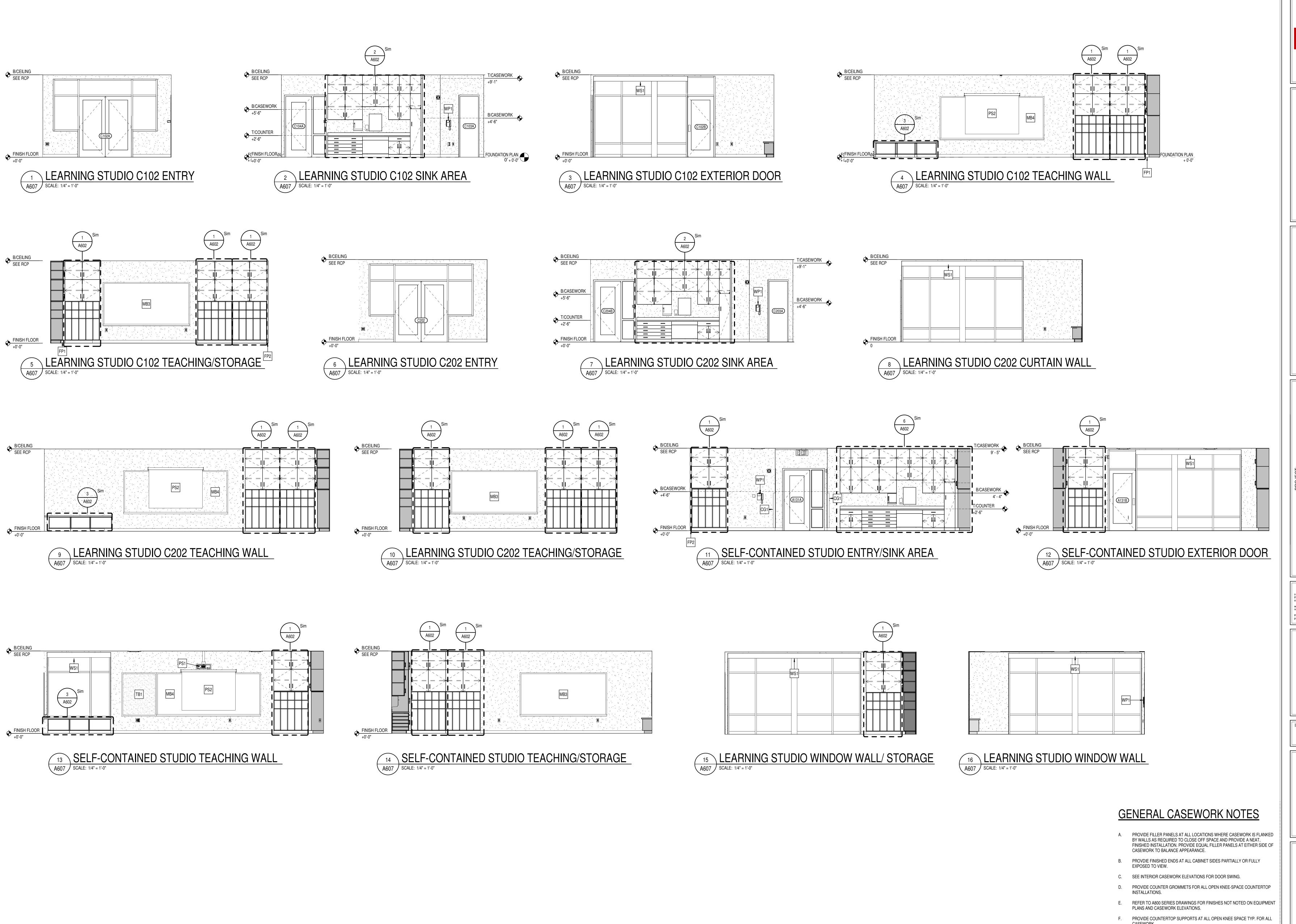
SECURED TO SURFACE. ALL FASTENERS SHALL BE CONCEALED.

K. REFER TO A900 SERIES FOR EQUIPTMENT SCHEDULE AND LOCATIONS.

J. CAULK CASEWORK TO ADJOINING FINISHED SURFACES WHERE APPLICABLE.

COORDINATE LOCATION OF BLOCKING WITHIN PARTITIONS FOR ITEMS TO BE

DRAWING NUMBER



Hamilton
Southeastern
Schools

**S831 Keystone Crossing, Indianapolis, IN 46240** 

OLS OLS

HAMILTON SOUTHEASTERN SCHOOL
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
11442 LANTERN RD, FISHERS, IN 46038

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

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REVISIONS: 2 ADD #2 02/02/2024

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INTERIOR ELEVATIONS -CLASSROOMS

CERTIFIED BY:

ROBERT

NO.

AR00900003

STATE OF

NO.

ARCH I TECTUMENTAL STATE OF

A607

PROJECT NUMBER

G. SEE REFLECTED CEILING PLANS FOR MOST ACCURATE CEILING HEIGHTS.

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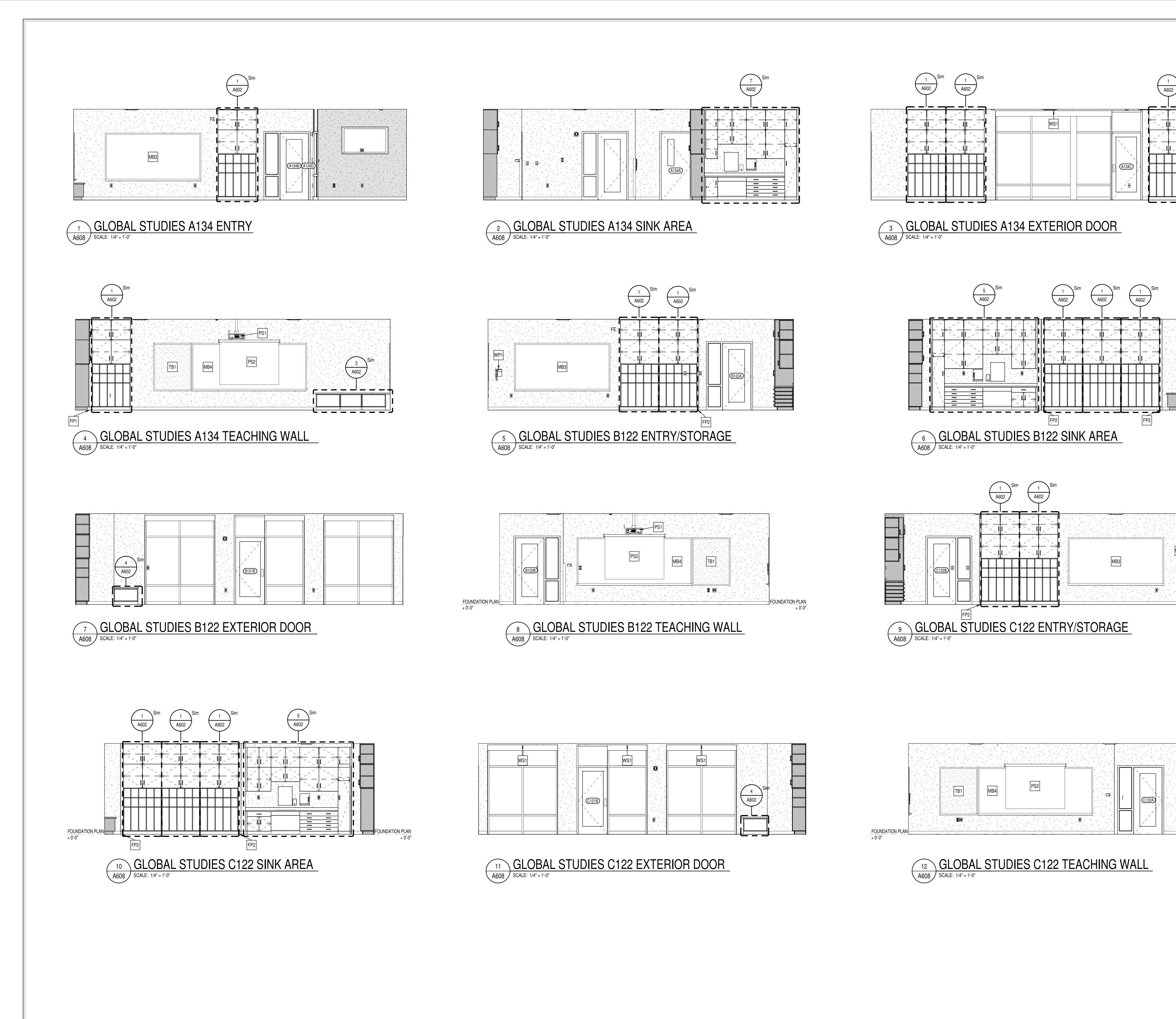
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H. CONFIRM FIELD DIMENSIONS PRIOR TO FABRICATION.



## **GENERAL CASEWORK NOTES**

- PROVIDE FILLER PANELS AT ALL LOCATIONS WHERE CASEWORK IS FLANKED BY WALLS AS REQUIRED TO CLOSE OFF SPACE AND PROVIDE A NEAT, FINISHED INSTALLATION. PROVIDE EQUAL FILLER PANELS AT EITHER SIDE OF
- CASEWORK TO BALANCE APPEARANCE. PROVDIE FINISHED ENDS AT ALL CABINET SIDES PARTIALLY OR FULLY
  - SEE INTERIOR CASEWORK ELEVATIONS FOR DOOR SWING.
- D. PROVIDE COUNTER GROMMETS FOR ALL OPEN KNEE-SPACE COUNTERTOP

EXPOSED TO VIEW.

- REFER TO A800 SERIES DRAWINGS FOR FINISHES NOT NOTED ON EQUIPMENT PLANS AND CASEWORK ELEVATIONS.
- F. PROVIDE COUNTERTOP SUPPORTS AT ALL OPEN KNEE SPACE TYP. FOR ALL
- G. SEE REFLECTED CEILING PLANS FOR MOST ACCURATE CEILING HEIGHTS.
- H. CONFIRM FIELD DIMENSIONS PRIOR TO FABRICATION.
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Hamilton
Southeastern
Schools

HAMILTON SOUTHEASTERN SCHOOLS
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11442 LANTERN RD, FISHERS, IN 46038

SCOPE DRAWINGS:

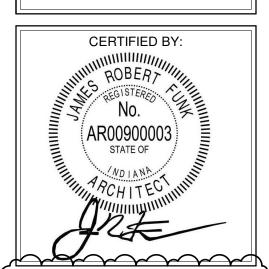
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**REVISIONS:** ADD #2 02/02/2024

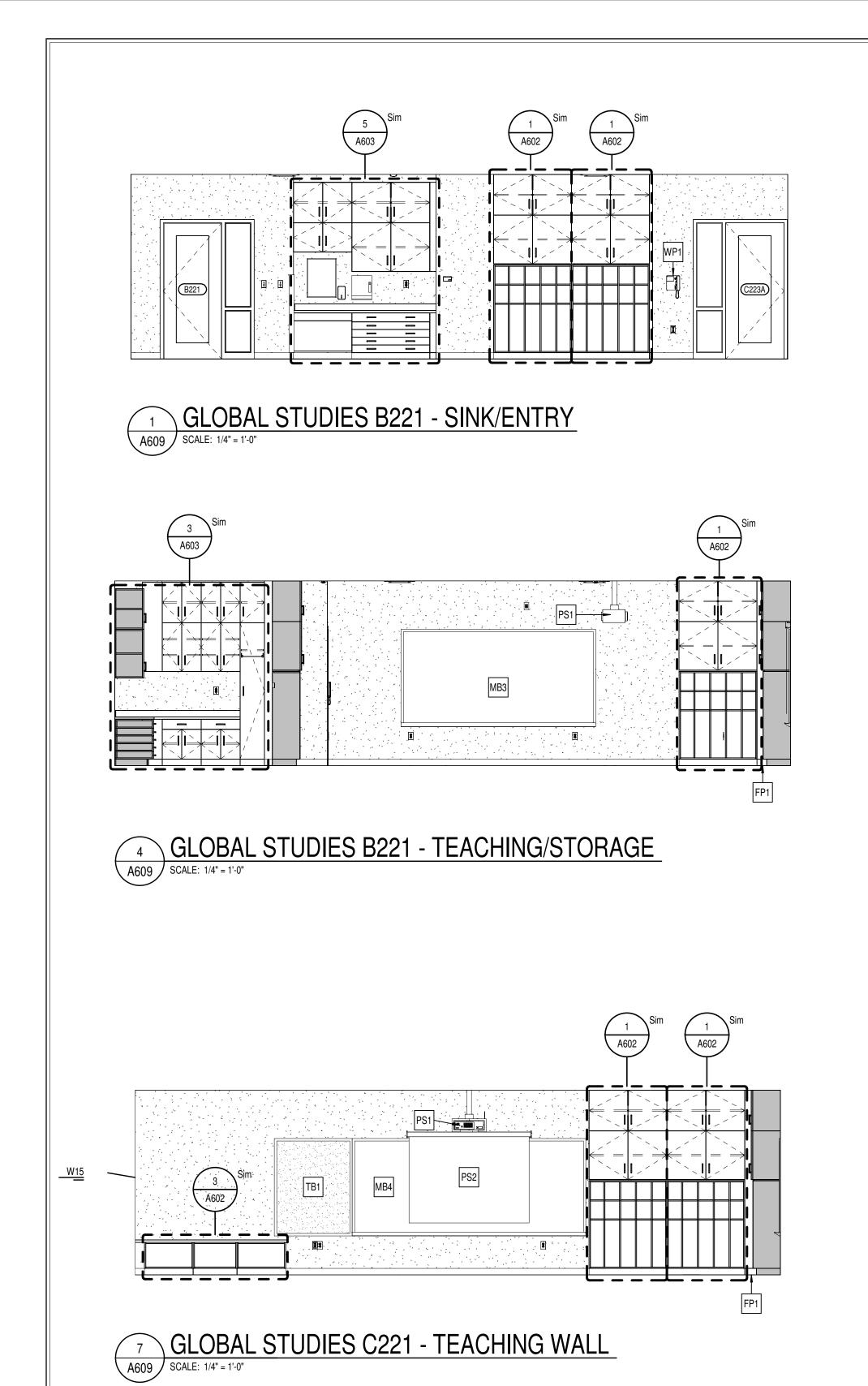
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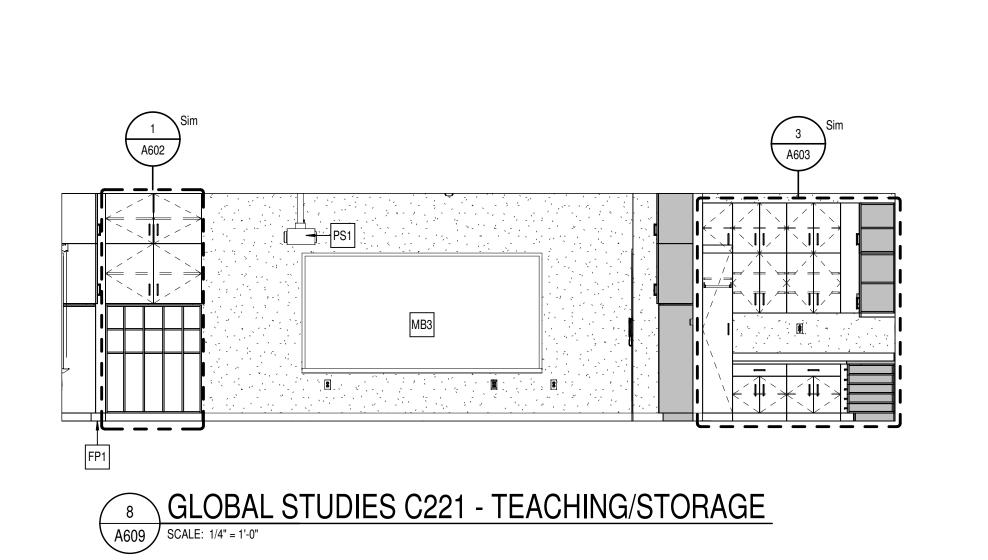
> DRAWING TITLE: **INTERIOR ELEVATIONS -**GLOBAL STUDIES



PROJECT NUMBER

2021119





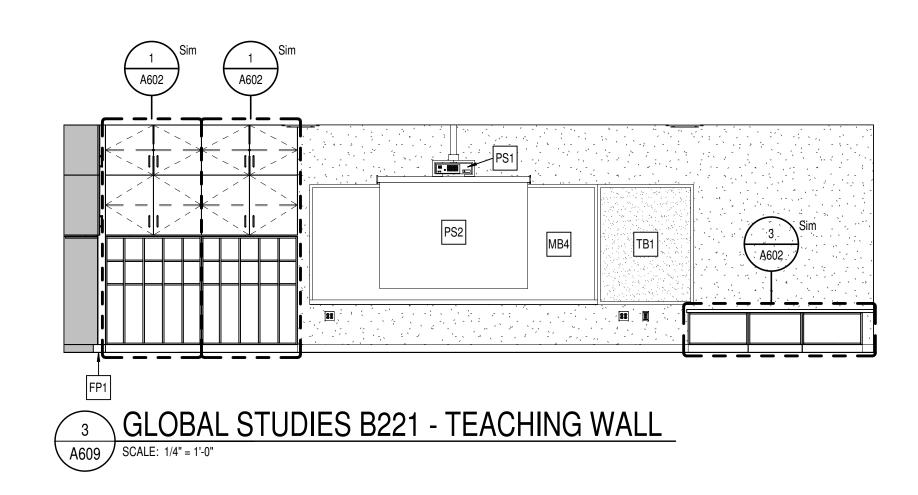
2 GLOBAL STUDIES B221 - CURTAIN WALL
A609 SCALE: 1/4" = 1'-0"

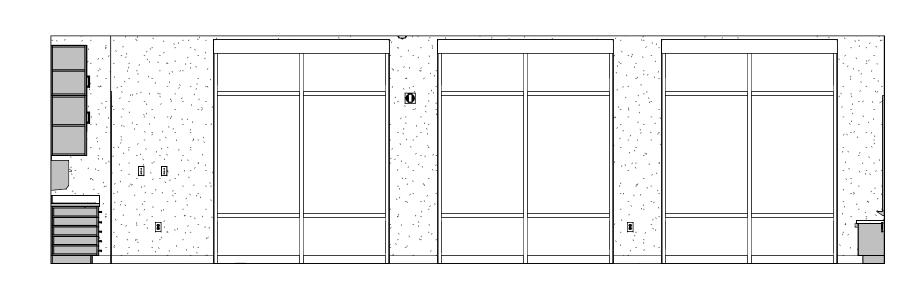
A602

GLOBAL STUDIES C221 - SINK/ENTRY

SCALE: 1/4" = 1'-0"

C223B





GLOBAL STUDIES C221 - CURTAIN WALL

SCALE: 1/4" = 1'-0"



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HAMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
11442 LANTERN RD, FISHERS, IN 46038

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**REVISIONS:** ADD #2 02/02/2024

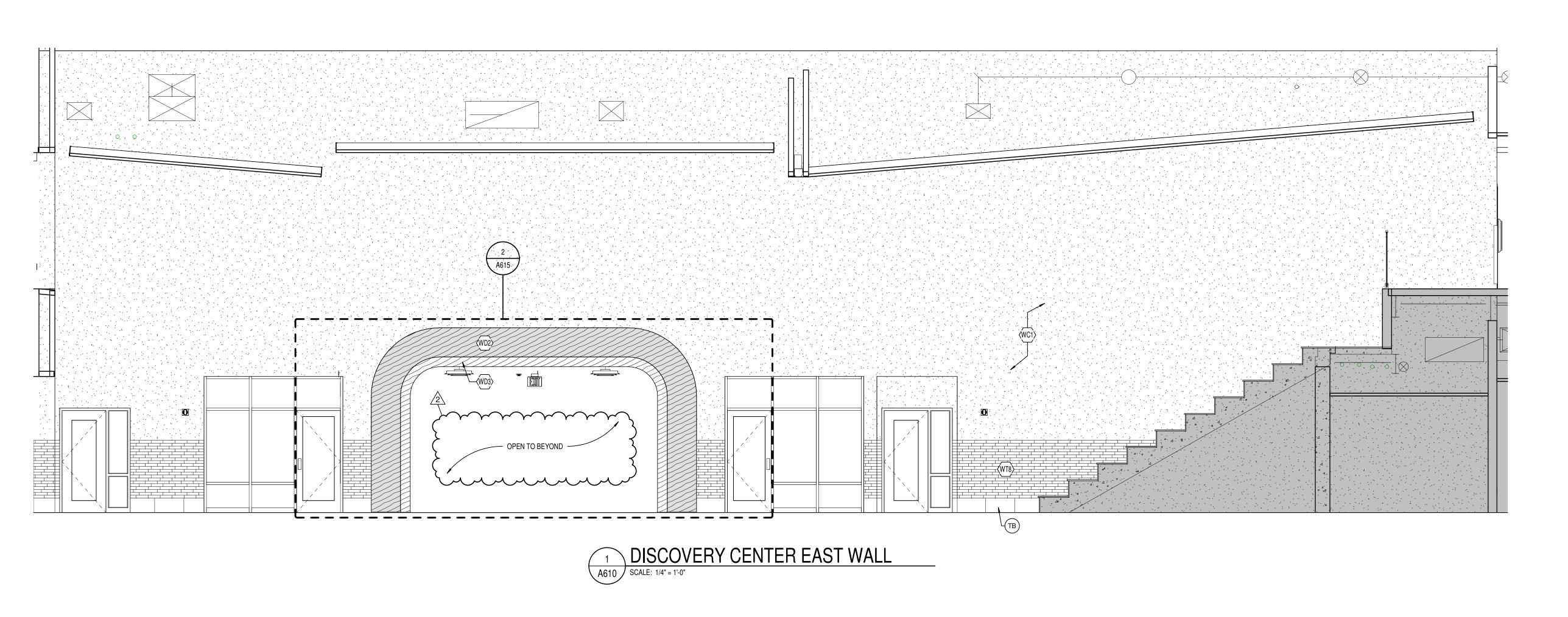
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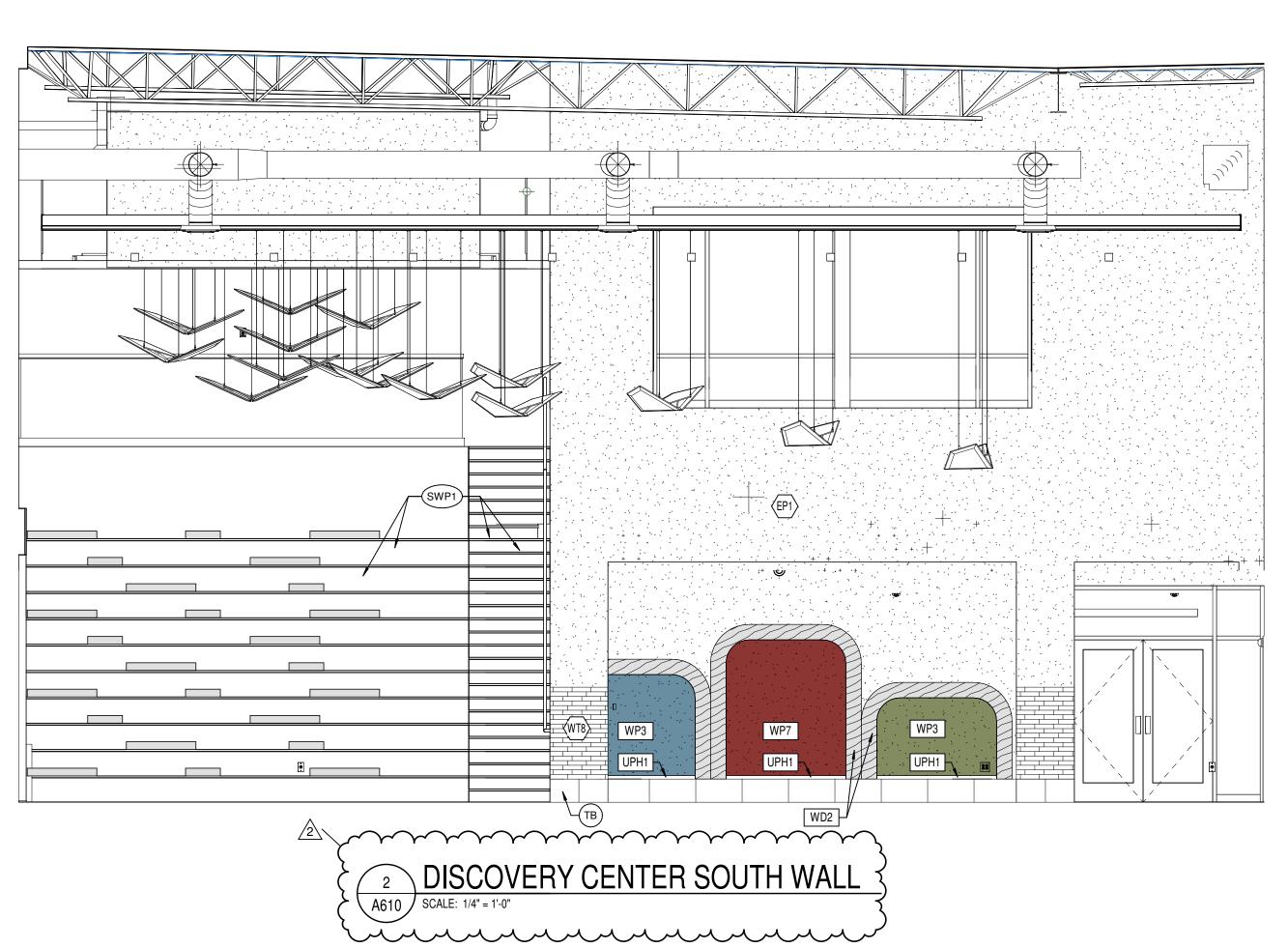
> DRAWING TITLE: **INTERIOR ELEVATIONS -**GLOBAL STUDIES

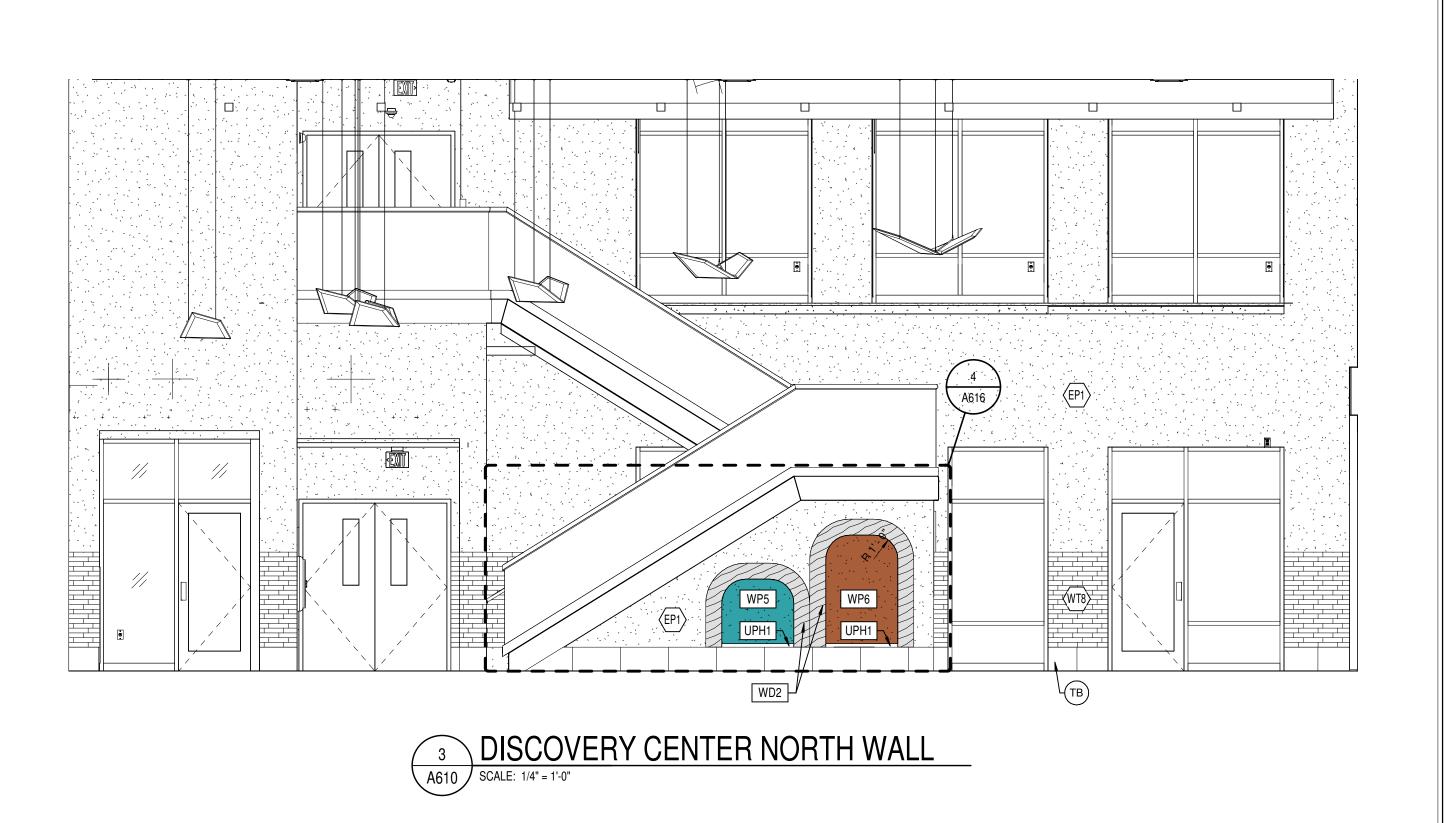


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2021119







S831 Keystone Crossing, Indianapolis, IN 4624

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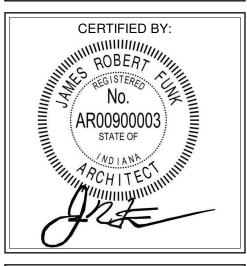
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INTERIOR
ELEVATIONS DISCOVERY
CENTER



A610



HAMILTON SOUTHEASTERN SCHOOLS
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SCHOOL
11442 LANTERN RD, FISHERS, IN 46038

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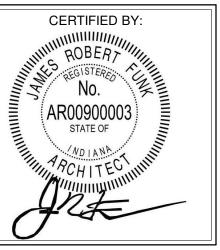
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ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2024 JNC ECN

DRAWING TITLE: ELEVATIONS -FIRST FLOOR CORRIDORS



DRAWING NUMBER A611



S831 Keystone Crossing, Indianapolis, IN 46240

HAMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
11442 LANTERN RD, FISHERS, IN 46038

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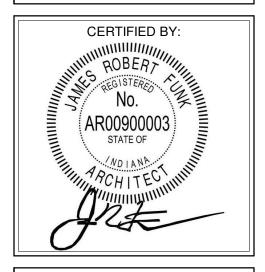
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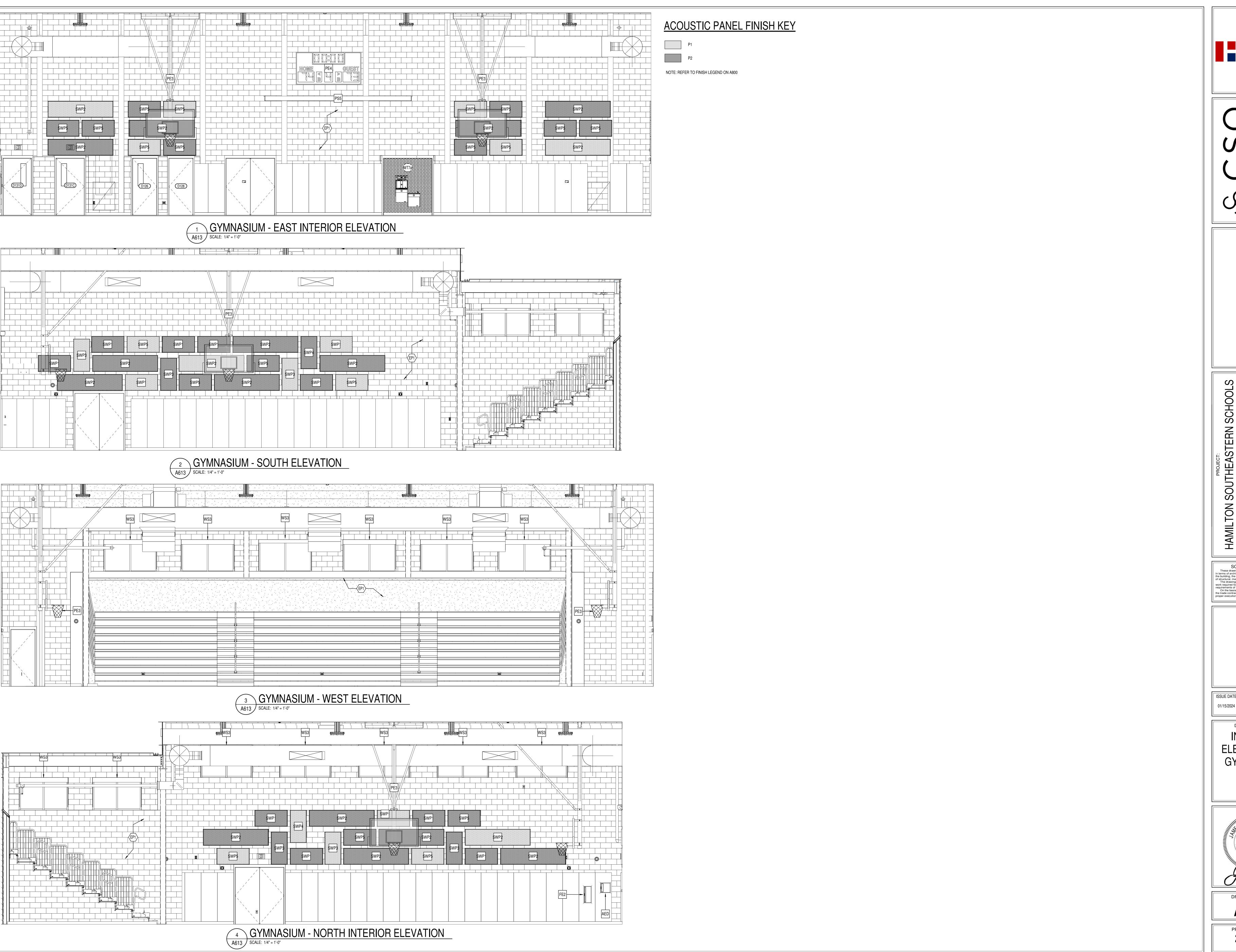
REVISIONS: 2 ADD #2 02/02/2024

ISSUE DATE DRAWN BY CHECKED BY 01/15/2024 JNC ECN

INTERIOR
ELEVATIONS SECOND FLOOR
CORRIDORS



A612



**S831** Keystone Crossing, Indianapolis, IN 46240

HAMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
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11442 LANTERN RD, FISHERS, IN 46038

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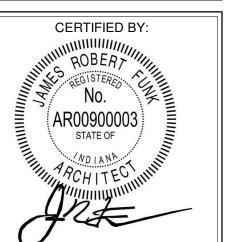
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ISSUE DATE DRAWN BY CHECKED BY 01/15/2024 JNC ECN

INTERIOR ELEVATIONS -GYMNASIUM



A613



HAMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL

11442 LANTERN RD, FISHERS, IN 46038

SCOPE DRAWINGS:

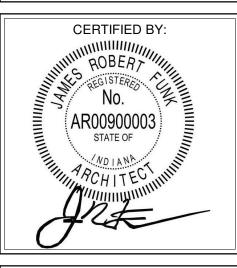
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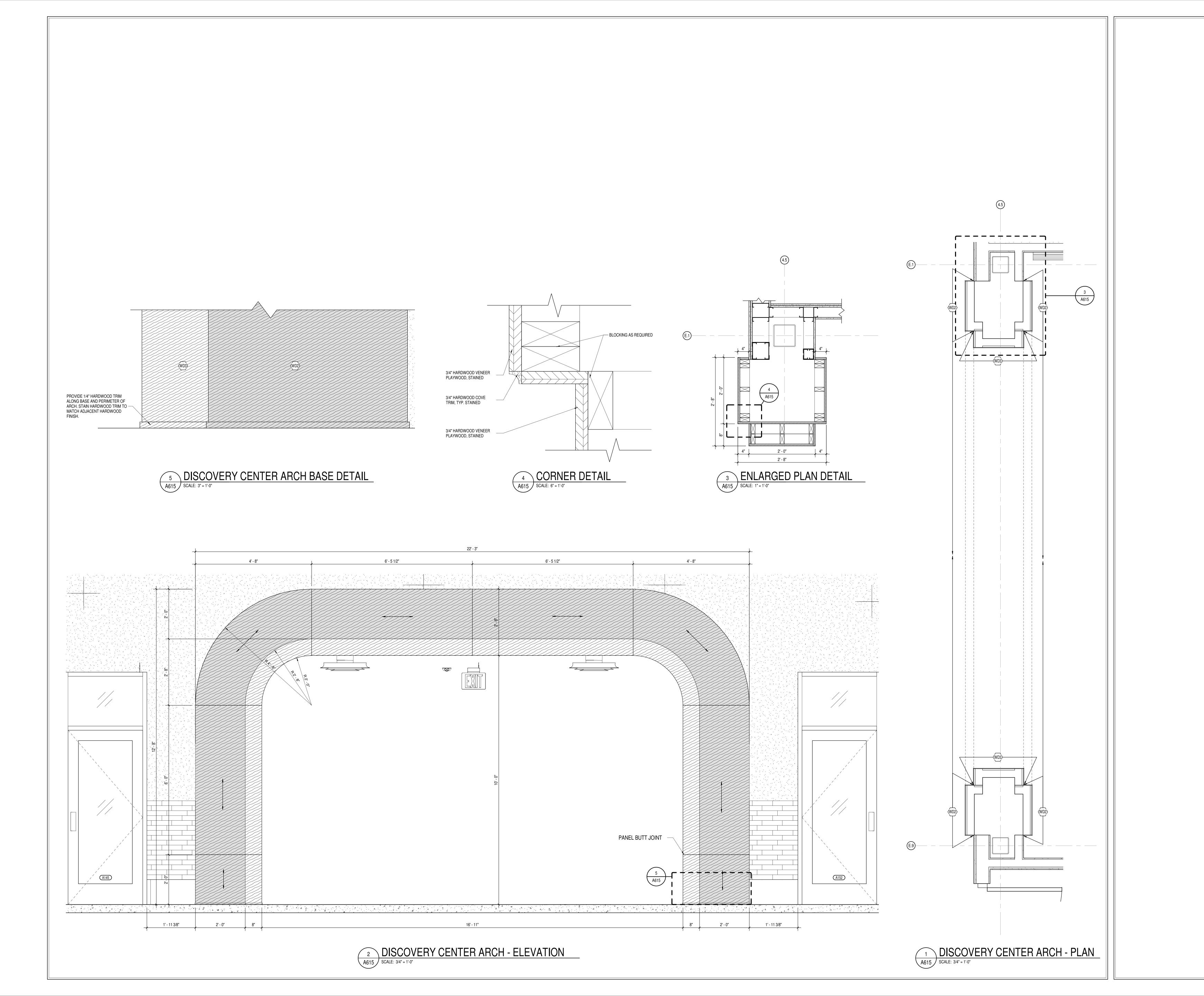
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ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2024 JNC ECN

> DRAWING TITLE: **ELEVATIONS** -CAFETERIA



DRAWING NUMBER A614





8831 Keystone Crossing, Indianapolis, IN 462, 317.848.7800 | csoinc.net

& RENOVATIONS TO
S ELEMENTARY
SCHOOL

SCOPE DRAWINGS:

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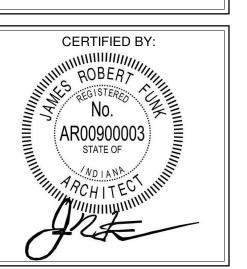
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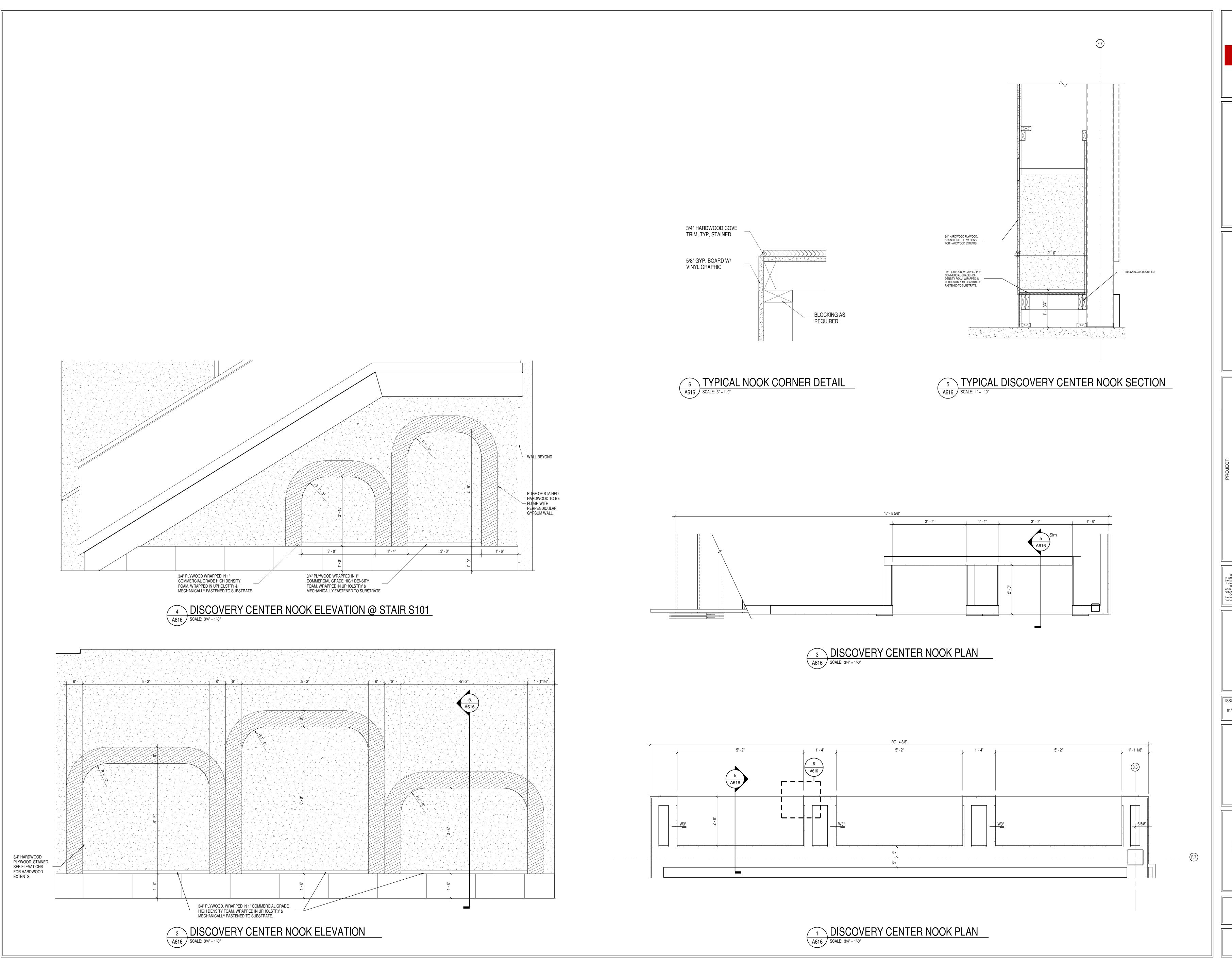
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DISCOVERY
CENTER
MILLWORK



A615



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HAMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
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11442 LANTERN RD, FISHERS, IN 46038

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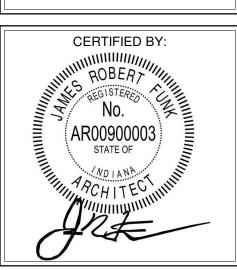
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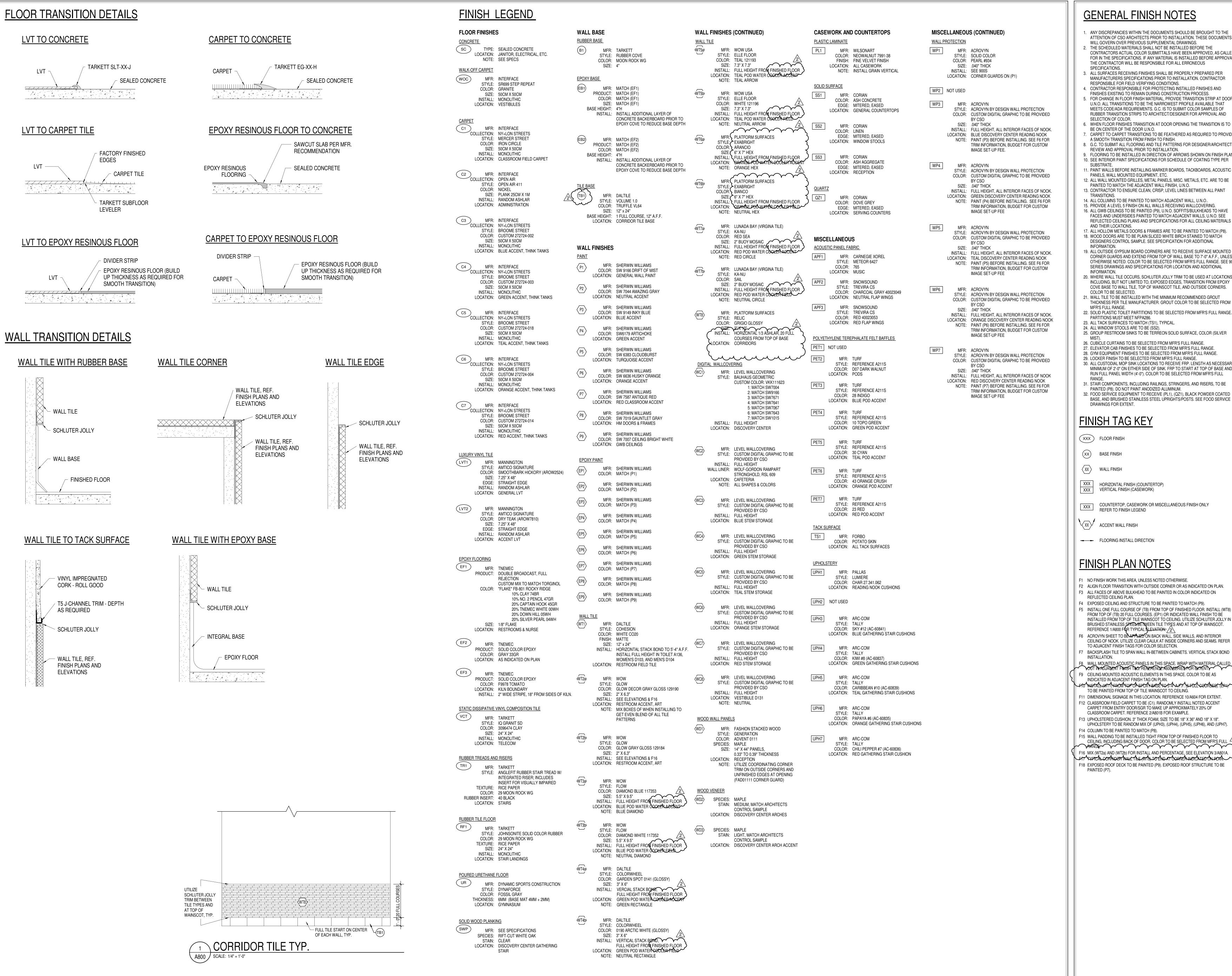
DISCOVERY
CENTER
MILLWORK



A616

PROJECT NUMBER

2021119



- ANY DISCREPANCIES WITHIN THE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF CSO ARCHITECTS PRIOR TO INSTALLATION. THESE DOCUMENTS WILL GOVERN OVER PREVIOUS SUPPLEMENTAL DRAWINGS. THE SCHEDULED MATERIALS SHALL NOT BE INSTALLED BEFORE THE
- CONTRACTORS ACTUAL COLOR SUBMITTALS HAVE BEEN APPROVED. AS CALLED FOR IN THE SPECIFICATIONS. IF ANY MATERIAL IS INSTALLED BEFORE APPROVAL, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL ERRONEOUS SPECIFICATIONS.
- B. ALL SURFACES RECEIVING FINISHES SHALL BE PROPERLY PREPARED PER
- MANUFACTURERS SPECIFICATIONS PRIOR TO INSTALLATION. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING CONDITIONS. 4. CONTRACTOR RESPONSIBLE FOR PROTECTING INSTALLED FINISHES AND FINISHES EXISTING TO REMAIN DURING CONSTRUCTION PROCESS. 5. FOR CHANGE IN FLOOR FINISH MATERIAL, PROVIDE TRANSITION STRIP AT DOOR
- MEETS CODE/ADA REQUIREMENTS. G.C. IS TO SUBMIT COLOR SAMPLES OF RUBBER TRANSITION STRIPS TO ARCHITECT/DESIGNER FOR APPROVAL AND SELECTION OF COLOR. 6. WHEN FLOOR FINISHES TRANSITION AT DOOR OPENING THE TRANSITION IS TO
- BE ON CENTER OF THE DOOR U.N.O. CARPET TO CARPET TRANSITIONS TO BE FEATHERED AS REQUIRED TO PROVIDE A SMOOTH TRANSITION FROM FINISH TO FINISH.
- REVIEW AND APPROVAL PRIOR TO INSTALLATION. 9. FLOORING TO BE INSTALLED IN DIRECTION OF ARROWS SHOWN ON FINISH PLAN. 10. SEE INTERIOR PAINT SPECIFICATIONS FOR SCHEDULE OF COATING TYPE PER
- SUBSTRATE. 11. PAINT WALLS BEFORE INSTALLING MARKER BOARDS, TACKBOARDS, ACOUSTIC
- PANELS, WALL MOUNTED EQUIPMENT, ETC. 12. ALL WALL MOUNTED GRILLES, METAL PANELS, MISC. METALS, ETC. ARE TO BE
- PAINTED TO MATCH THE ADJACENT WALL FINISH, U.N.O. 13. CONTRACTOR TO ENSURE CLEAN, CRISP, LEVEL LINES BETWEEN ALL PAINT TRANSITIONS.
- 14. ALL COLUMNS TO BE PAINTED TO MATCH ADJACENT WALL, U.N.O. 15. PROVIDE A LEVEL 5 FINISH ON ALL WALLS RECEIVING WALLCOVERING. 16. ALL GWB CEILINGS TO BE PAINTED (P9), U.N.O. SOFFITS/BULKHEADS TO HAVE FACES AND UNDERSIDES PAINTED TO MATCH ADJACENT WALLS, U.N.O. SEE REFLECTED CEILING PLANS AND SPECIFICATIONS FOR ALL CEILING MATERIALS
- ALL HOLLOW METALS DOORS & FRAMES ARE TO BE PAINTED TO MATCH (P8) 18. WOOD DOORS ARE TO BE PLAIN SLICED WHITE BIRCH STAINED TO MATCH DESIGNERS CONTROL SAMPLE. SEE SPECIFICATION FOR ADDITIONAL
- 19. ALL OUTSIDE GYPSUM BOARD CORNERS ARE TO RECEIVE SURFACE MOUNTED CORNER GUARDS AND EXTEND FROM TOP OF WALL BASE TO 7'-0" A.F.F., UNLESS OTHERWISE NOTED. COLOR TO BE SELECTED FROM MFR'S FULL RANGE. SEE 900 SERIES DRAWINGS AND SPECIFICATIONS FOR LOCATION AND ADDITIONAL
- 20. WHERE WALL TILE OCCURS, SCHLUTER JOLLY TRIM TO BE USED AT LOCATIONS INCLUDING, BUT NOT LIMITED TO, EXPOSED EDGES, TRANSITION FROM EPOXY COVE BASE TO WALL TILE, TOP OF WAINSCOT TILE, AND OUTSIDE CORNERS. COLOR TO BE SELECTED.
- 21. WALL TILE TO BE INSTALLED WITH THE MINIMUM RECOMMENDED GROUT THICKNESS PER TILE MANUFACTURER. GROUT COLOR TO BE SELECTED FROM
- 22. SOLID PLASTIC TOILET PARTITIONS TO BE SELECTED FROM MFR'S FULL RANGE. PARTITIONS MUST MEET NFPA286. 23. ALL TACK SURFACES TO MATCH (TS1), TYPICAL.
- 25. GROUP RESTROOM SINKS TO BE TERREON SOLID SURFACE, COLOR (SILVER 26. CUBICLE CURTAINS TO BE SELECTED FROM MFR'S FULL RANGE.
- ELEVATOR CAB FINISHES TO BE SELECTED FROM MFR'S FULL RANGE. 28. GYM EQUIPMENT FINISHES TO BE SELECTED FROM MFR'S FULL RANGE 29. LOCKER FINISH TO BE SELECTED FROM MER'S FULL RANGE.
- 30. ALL CUSTODIAL MOP SINK LOCATIONS TO RECEIVE FRP. LENGTH AS NECESSARY. MINIMUM OF 2'-0" ON EITHER SIDE OF SINK. FRP TO START AT TOP OF BASE AND RUN FULL PANEL WIDTH (4'-0"). COLOR TO BE SELECTED FROM MFR'S FULL
- 31. STAIR COMPONENTS, INCLUDING RAILINGS, STRINGERS, AND RISERS, TO BE PAINTED (P8). DO NOT PAINT ANODIZED ALUMINUM.
- 32. FOOD SERVICE EQUIPMENT TO RECEIVE (PL1), (QZ1), BLACK POWDER COATED
- BASE, AND BRUSHED STAINLESS STEEL UPRIGHTS/POSTS. SEE FOOD SERVICE DRAWINGS FOR EXTENT.

# FINISH TAG KEY

(XXX) FLOOR FINISH

(XX) BASE FINISH

XX WALL FINISH

XXX HORIZONTAL FINISH (COUNTERTOP) XXX VERTICAL FINISH (CASEWORK)

COUNTERTOP, CASEWORK OR MISCELLANEOUS FINISH ONLY REFER TO FINISH LEGEND

ACCENT WALL FINISH

# FINISH PLAN NOTES

- F1 NO FINISH WORK THIS AREA, UNLESS NOTED OTHERWISE.
- F2 ALIGN FLOOR TRANSITION WITH OUTSIDE CORNER OR AS INDICATED ON PLAN. F3 ALL FACES OF ABOVE BULKHEAD TO BE PAINTED IN COLOR INDICATED ON
- REFLECTED CEILING PLAN. F4 EXPOSED CEILING AND STRUCTURE TO BE PAINTED TO MATCH (P9).
- F5 INSTALL ONE FULL COURSE OF (TB) FROM TOP OF FINISHED FLOOR. INSTALL (WT8) FROM TOP OF (TB) 20 FULL COURSES. (EP1) OR INDICATED WALL FINISH TO BE INSTALLED FROM TOP OF TILE WAINSCOT TO CEILING. UTILIZE SCHLUTER JOLLY IN BRUSHED STAINLESS STEED BETWEEN TILE TYPES AND AT TOP OF WAINSCOT. REFERENCE 1/A800 FOR TYPICAL LEVATION: /2
- -6 ACROVYN SHEET TO BE APPLIED ON BACK WALL, SIDE WALLS, AND INTERIOR CEILING OF NOOK. UTILIZE CLEAR CAULK AT INSIDE CORNERS AND SEAMS. REFER
- TO ADJACENT FINISH TAGS FOR COLOR SELECTION.
- F7 BACKSPLASH TILE TO SPAN WALL IN-BETWEEN CABINETS. VERTICAL STACK BOND

- YOUT IN ADJAINENT FINITSH THAT REPUERENDE AGOODS ERIES FOR EXTENTY F9 CEILING MOUNTED ACOUSTIC ELEMENTS IN THIS SPACE. COLOR TO BE AS
- INDICATED IN ADJACENT FINISH TAG ON PLAN. LF1T/NSTALL4WT1/FROMTOPOREPOXXBASETOS-4/A.P.F./5F01LC00R9E91.TEP4Y
- TO BE PAINTED FROM TOP OF TILE WAINSCOT TO CEILING. F11 DIMENSIONAL SIGNAGE IN THIS LOCATION. REFERENCE 10/A604 FOR EXTENT F12 CLASSROOM FIELD CARPET TO BE (C1). RANDOMLY INSTALL NOTED ACCENT
- CARPET FROM ENTRY DOOR/SGR TO MAKE UP APPROXIMATELY 20% OF CLASSROOM CARPET. REFERENCE 2/A801B FOR EXAMPLE.
- F13 UPHOLSTERED CUSHION, 3" THICK FOAM, SIZE TO BE 18" X 36" AND 18" X 18". UPHOLSTERY TO BE RANDOM MIX OF (UPH3), (UPH4), (UPH5), (UPH6), AND (UPH7).
- F14 COLUMN TO BE PAINTED TO MATCH (P8).
- F15 WALL PADDING TO BE INSTALLED TIGHT FROM TOP OF FINISHED FLOOR TO CEILING, INCLUDING BACK OF DOOR. COLOR TO BE SELECTED FROM MFR'S FULL
- F16 MIX (WT2a) AND (WT2b) FOR INSTALL AND PERCENTAGE, SEE ELEVATION 3/A801A. FIT TYPICAL CORADOR WALL TILE AWAS TO ENDAT CORNER INDICATED ON PLAN. F18 EXPOSED ROOF DECK TO BE PAINTED (P9). EXPOSED ROOF STRUCTURE TO BE



0 OVATIO MENT шШЩ 耳四耳 бШ

SCOPE DRAWINGS: ructural, mechanical and electrical systems. The drawings do not necessarily indicate or describe a On the basis of the general scope indicated or descri proper execution and completion of the work.

**REVISIONS:** 

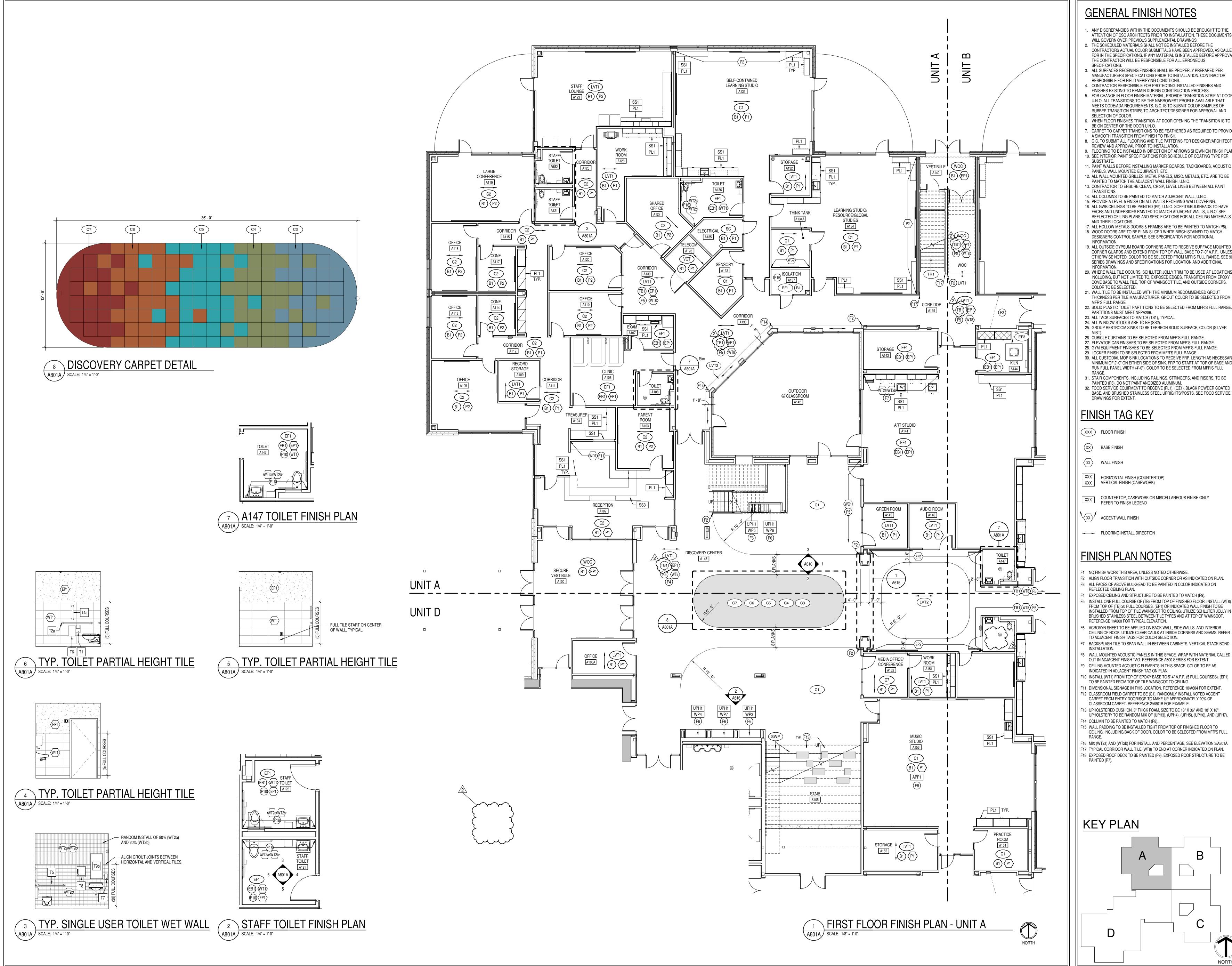
ADD #2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2024 KLV

> DRAWING TITLE: & NOTES

**CERTIFIED BY:** ROBERT AR00900003 STATE OF

DRAWING NUMBER



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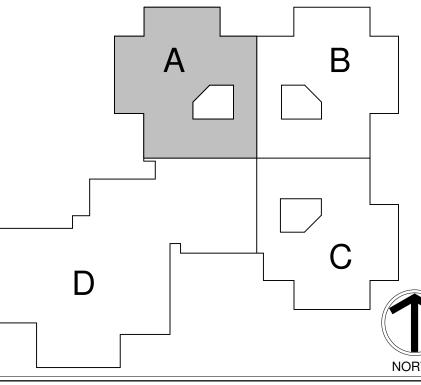
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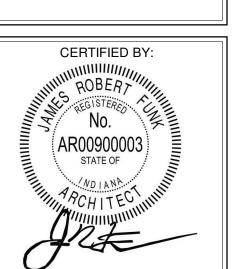
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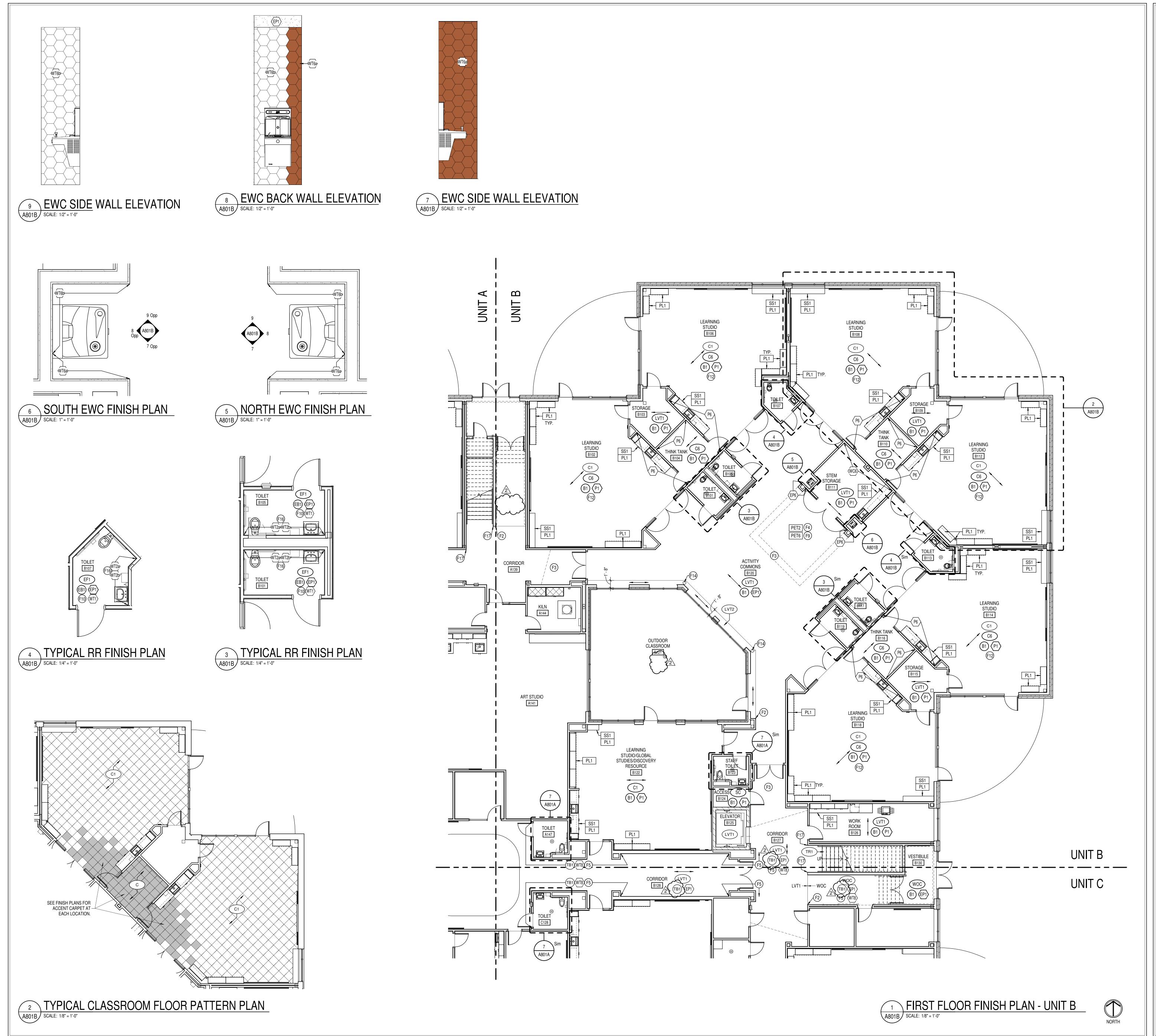
**REVISIONS:** 

ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2024 KLV

DRAWING TITLE: FIRST FLOOR FINISH PLAN -UNIT A



DRAWING NUMBER A801A PROJECT NUMBER 2021119



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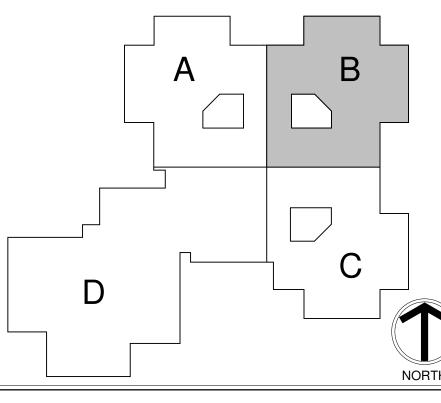
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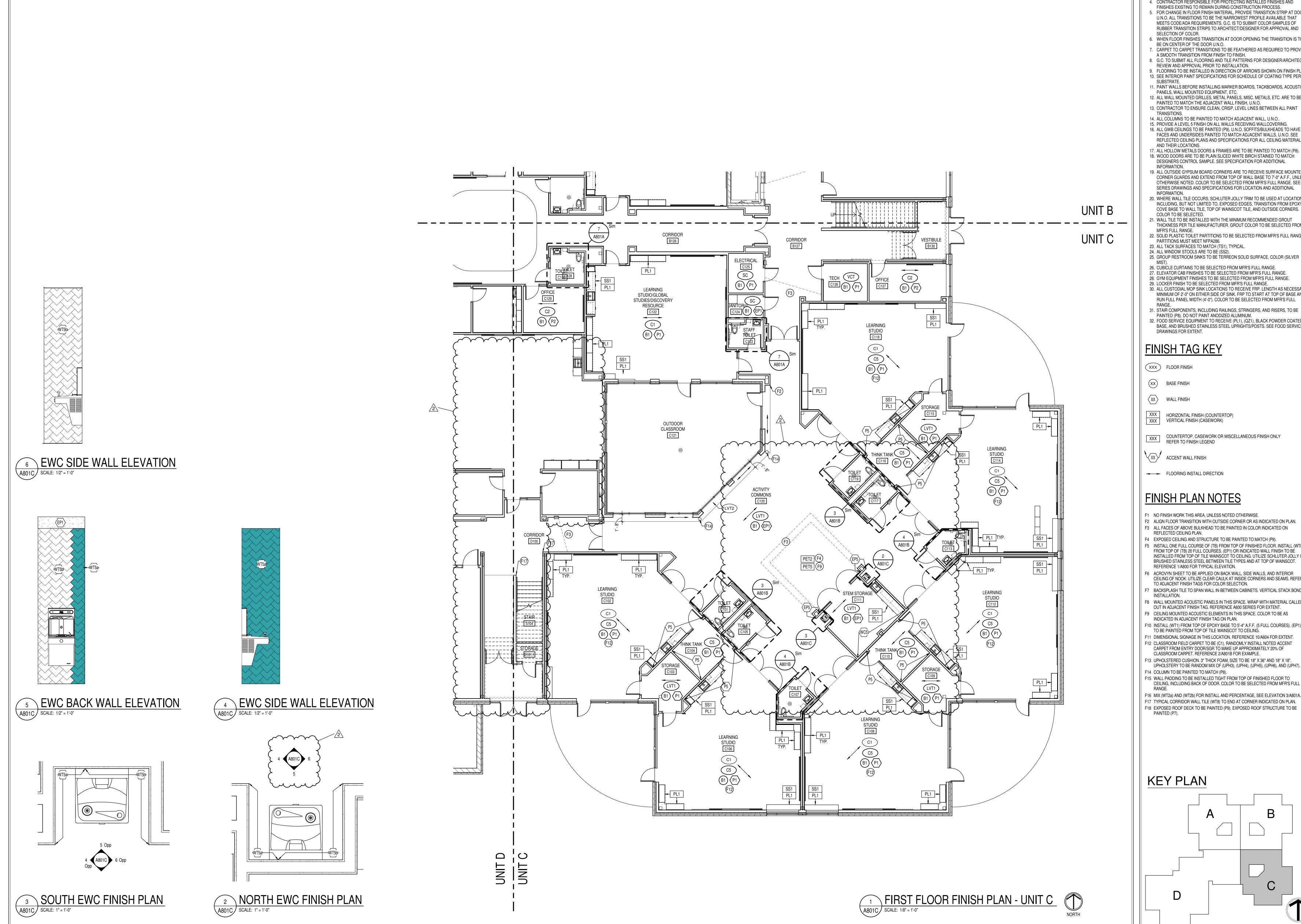
**REVISIONS:** 

ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2024 KLV MEO

DRAWING TITLE: FIRST FLOOR FINISH PLAN -UNIT B

**CERTIFIED BY:** 

DRAWING NUMBER A801B PROJECT NUMBER 2021119



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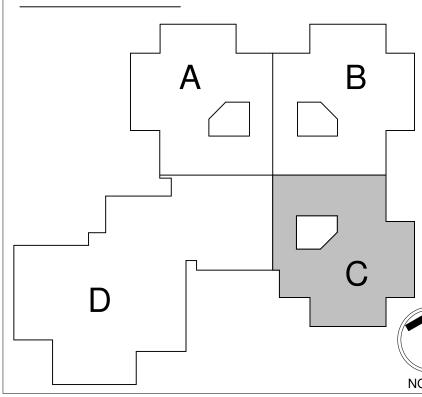
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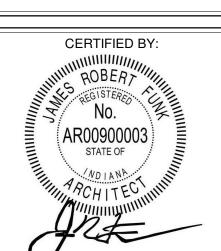
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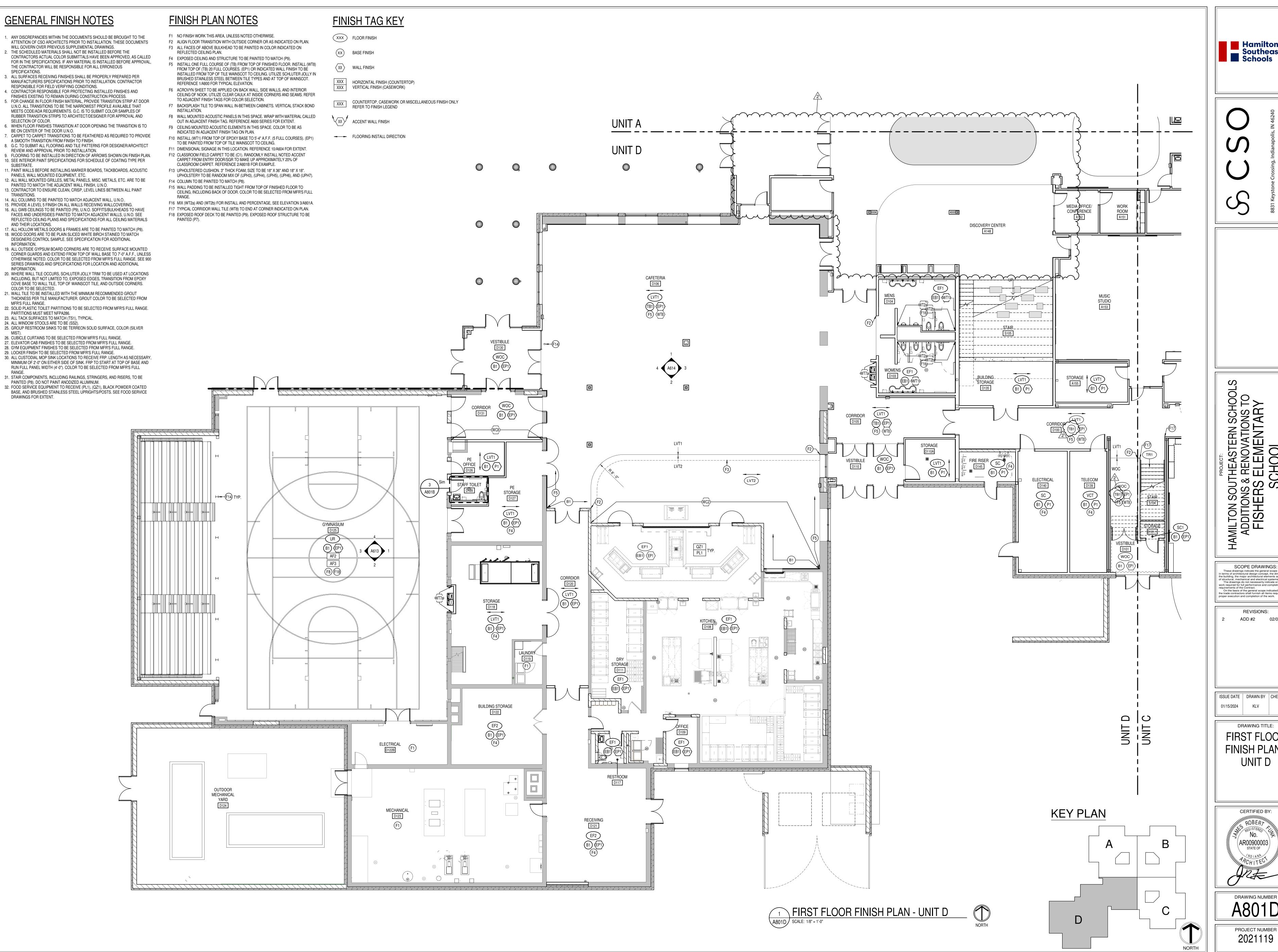
**REVISIONS:** 

ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2024 KLV MEO

DRAWING TITLE: FIRST FLOOR FINISH PLAN -UNIT C



A801C PROJECT NUMBER 2021119



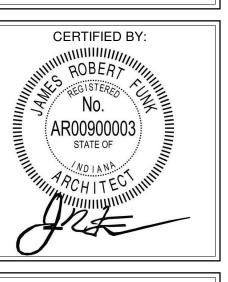


& RENOVATIONS TO SELEMENTARY

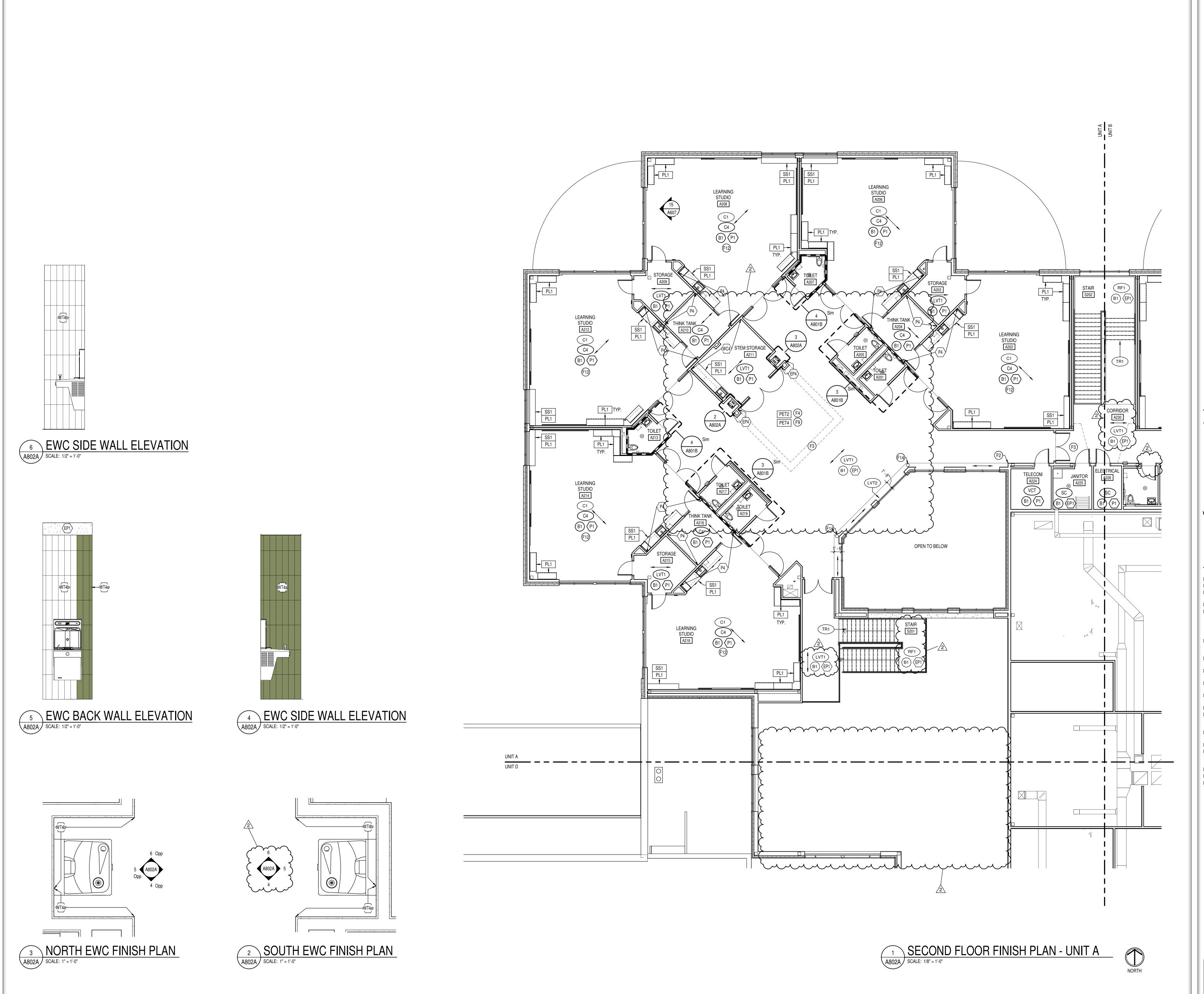
ADD #2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY KLV

> **DRAWING TITLE:** FIRST FLOOR FINISH PLAN -UNIT D



A801D PROJECT NUMBER



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- 4. CONTRACTOR RESPONSIBLE FOR PROTECTING INSTALLED FINISHES AND FINISHES EXISTING TO REMAIN DURING CONSTRUCTION PROCESS.
  5. FOR CHANGE IN FLOOR FINISH MATERIAL, PROVIDE TRANSITION STRIP AT DOOR U.N.O. ALL TRANSITIONS TO BE THE NARROWEST PROFILE AVAILABLE THAT MEETS CODE/ADA REQUIREMENTS. G.C. IS TO SUBMIT COLOR SAMPLES OF
- SELECTION OF COLOR.

  6. WHEN FLOOR FINISHES TRANSITION AT DOOR OPENING THE TRANSITION IS TO

RUBBER TRANSITION STRIPS TO ARCHITECT/DESIGNER FOR APPROVAL AND

- BE ON CENTER OF THE DOOR U.N.O.
  7. CARPET TO CARPET TRANSITIONS TO BE FEATHERED AS REQUIRED TO PROVIDE A SMOOTH TRANSITION FROM FINISH TO FINISH.

8. G.C. TO SUBMIT ALL FLOORING AND TILE PATTERNS FOR DESIGNER/ARCHITECT

- SEE INTERIOR PAINT SPECIFICATIONS FOR SCHEDULE OF COATING TYPE PER SUBSTRATE.
   PAINT WALLS BEFORE INSTALLING MARKER BOARDS, TACKBOARDS, ACOUSTIC
- 11. PAINT WALLS BEFORE INSTALLING MARKER BOARDS, TACKBOARDS, ACOUSTIC PANELS, WALL MOUNTED EQUIPMENT, ETC.12. ALL WALL MOUNTED GRILLES, METAL PANELS, MISC. METALS, ETC. ARE TO BE
- PAINTED TO MATCH THE ADJACENT WALL FINISH, U.N.O.

  13. CONTRACTOR TO ENSURE CLEAN, CRISP, LEVEL LINES BETWEEN ALL PAINT TRANSITIONS.
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   ALL GWB CEILINGS TO BE PAINTED (P9), U.N.O. SOFFITS/BULKHEADS TO HAVE FACES AND UNDERSIDES PAINTED TO MATCH ADJACENT WALLS, U.N.O. SEE

DESIGNERS CONTROL SAMPLE. SEE SPECIFICATION FOR ADDITIONAL

AND THEIR LOCATIONS.

17. ALL HOLLOW METALS DOORS & FRAMES ARE TO BE PAINTED TO MATCH (P8).

18. WOOD DOORS ARE TO BE PLAIN SLICED WHITE BIRCH STAINED TO MATCH

REFLECTED CEILING PLANS AND SPECIFICATIONS FOR ALL CEILING MATERIALS

- INFORMATION.

  19. ALL OUTSIDE GYPSUM BOARD CORNERS ARE TO RECEIVE SURFACE MOUNTED CORNER GUARDS AND EXTEND FROM TOP OF WALL BASE TO 7'-0" A.F.F., UNLESS OTHERWISE NOTED. COLOR TO BE SELECTED FROM MFR'S FULL RANGE. SEE 900 SERIES DRAWINGS AND SPECIFICATIONS FOR LOCATION AND ADDITIONAL
- INFORMATION.

  20. WHERE WALL TILE OCCURS, SCHLUTER JOLLY TRIM TO BE USED AT LOCATIONS INCLUDING, BUT NOT LIMITED TO, EXPOSED EDGES, TRANSITION FROM EPOXY COVE BASE TO WALL TILE, TOP OF WAINSCOT TILE, AND OUTSIDE CORNERS.
- COLOR TO BE SELECTED.

  21. WALL TILE TO BE INSTALLED WITH THE MINIMUM RECOMMENDED GROUT
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  22. SOLID PLASTIC TOILET PARTITIONS TO BE SELECTED FROM MFR'S FULL RANGE. PARTITIONS MUST MEET NFPA286.

  23. ALL TACK SURFACES TO MATCH (TS1), TYPICAL.
- 24. ALL WINDOW STOOLS ARE TO BE (SS2).
  25. GROUP RESTROOM SINKS TO BE TERREON SOLID SURFACE, COLOR (SILVER
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  27. ELEVATOR CAB FINISHES TO BE SELECTED FROM MFR'S FULL RANGE.
- 28. GYM EQUIPMENT FINISHES TO BE SELECTED FROM MFR'S FULL RANGE.

  29. LOCKER FINISH TO BE SELECTED FROM MFR'S FULL RANGE.
- 30. ALL CUSTODIAL MOP SINK LOCATIONS TO RECEIVE FRP. LENGTH AS NECESSARY, MINIMUM OF 2'-0" ON EITHER SIDE OF SINK. FRP TO START AT TOP OF BASE AND RUN FULL PANEL WIDTH (4'-0"). COLOR TO BE SELECTED FROM MFR'S FULL
- 31. STAIR COMPONENTS, INCLUDING RAILINGS, STRINGERS, AND RISERS, TO BE PAINTED (P8). DO NOT PAINT ANODIZED ALUMINUM.
- 32. FOOD SERVICE EQUIPMENT TO RECEIVE (PL1), (QZ1), BLACK POWDER COATED BASE, AND BRUSHED STAINLESS STEEL UPRIGHTS/POSTS. SEE FOOD SERVICE DRAWINGS FOR EXTENT.

### FINISH TAG KEY

XXX FLOOR FINISH

(XX) BASE FINISH

XX WALL FINISH

XXX HORIZONTAL FINISH (COUNTERTOP)

XXX VERTICAL FINISH (CASEWORK)

COUNTERTOP, CASEWORK OR MISCELLANEOUS FINISH ONLY REFER TO FINISH LEGEND

ACCENT WALL FINISH

\_\_\_\_\_

FLOORING INSTALL DIRECTION

# FINISH PLAN NOTES

- F1 NO FINISH WORK THIS AREA, UNLESS NOTED OTHERWISE.
- F2 ALIGN FLOOR TRANSITION WITH OUTSIDE CORNER OR AS INDICATED ON PLAN.
  F3 ALL FACES OF ABOVE BULKHEAD TO BE PAINTED IN COLOR INDICATED ON
- REFLECTED CEILING PLAN.

  F4 EXPOSED CEILING AND STRUCTURE TO BE PAINTED TO MATCH (P9).

  F5 INSTALL ONE FULL COURSE OF (TB) FROM TOP OF FINISHED FLOOR. INSTALL (WT8)
  FROM TOP OF (TB) 20 FULL COURSES. (EP1) OR INDICATED WALL FINISH TO BE
- REFERENCE 1/A800 FOR TYPICAL ELEVATION.

  F6 ACROVYN SHEET TO BE APPLIED ON BACK WALL, SIDE WALLS, AND INTERIOR CEILING OF NOOK. UTILIZE CLEAR CAULK AT INSIDE CORNERS AND SEAMS. REFER

BRUSHED STAINLESS STEEL BETWEEN TILE TYPES AND AT TOP OF WAINSCOT.

TO ADJACENT FINISH TAGS FOR COLOR SELECTION.

F7 BACKSPLASH TILE TO SPAN WALL IN-BETWEEN CABINETS. VERTICAL STACK BOND

INSTALLED FROM TOP OF TILE WAINSCOT TO CEILING. UTILIZE SCHLUTER JOLLY IN

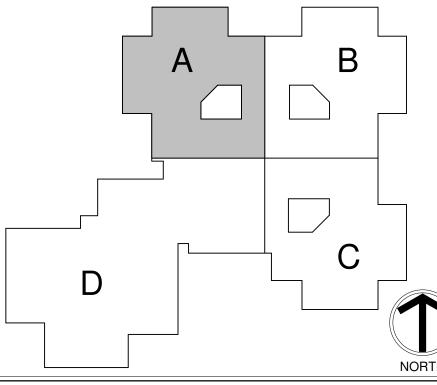
- INSTALLATION.

  F8 WALL MOUNTED ACOUSTIC PANELS IN THIS SPACE. WRAP WITH MATERIAL CALLED OUT IN ADJACENT FINISH TAG. REFERENCE A600 SERIES FOR EXTENT.
- F9 CEILING MOUNTED ACOUSTIC ELEMENTS IN THIS SPACE. COLOR TO BE AS INDICATED IN ADJACENT FINISH TAG ON PLAN.
- F10 INSTALL (WT1) FROM TOP OF EPOXY BASE TO 5'-4" A.F.F. (5 FULL COURSES). (EP1) TO BE PAINTED FROM TOP OF TILE WAINSCOT TO CEILING.
- F11 DIMENSIONAL SIGNAGE IN THIS LOCATION. REFERENCE 10/A604 FOR EXTENT.
   F12 CLASSROOM FIELD CARPET TO BE (C1). RANDOMLY INSTALL NOTED ACCENT CARPET FROM ENTRY DOOR/SGR TO MAKE UP APPROXIMATELY 20% OF
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  F13 UPHOLSTERED CUSHION. 3" THICK FOAM, SIZE TO BE 18" X 36" AND 18" X 18".

  UPHOLSTERY TO BE RANDOM MIX OF (UPH3), (UPH4), (UPH5), (UPH6), AND (UPH7).
- F14 COLUMN TO BE PAINTED TO MATCH (P8).
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- F16 MIX (WT2a) AND (WT2b) FOR INSTALL AND PERCENTAGE, SEE ELEVATION 3/A801A.
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# KEY PLAN





831 Keystone Crossing, Indianapolis, IN 46240

AMILTON SOUTHEASTERN SCHOO ADDITIONS & RENOVATIONS TO FISHERS ELEMENTARY SCHOOL

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

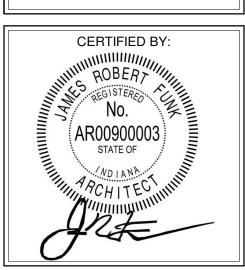
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

ADD #2 02/02/2024

**REVISIONS:** 

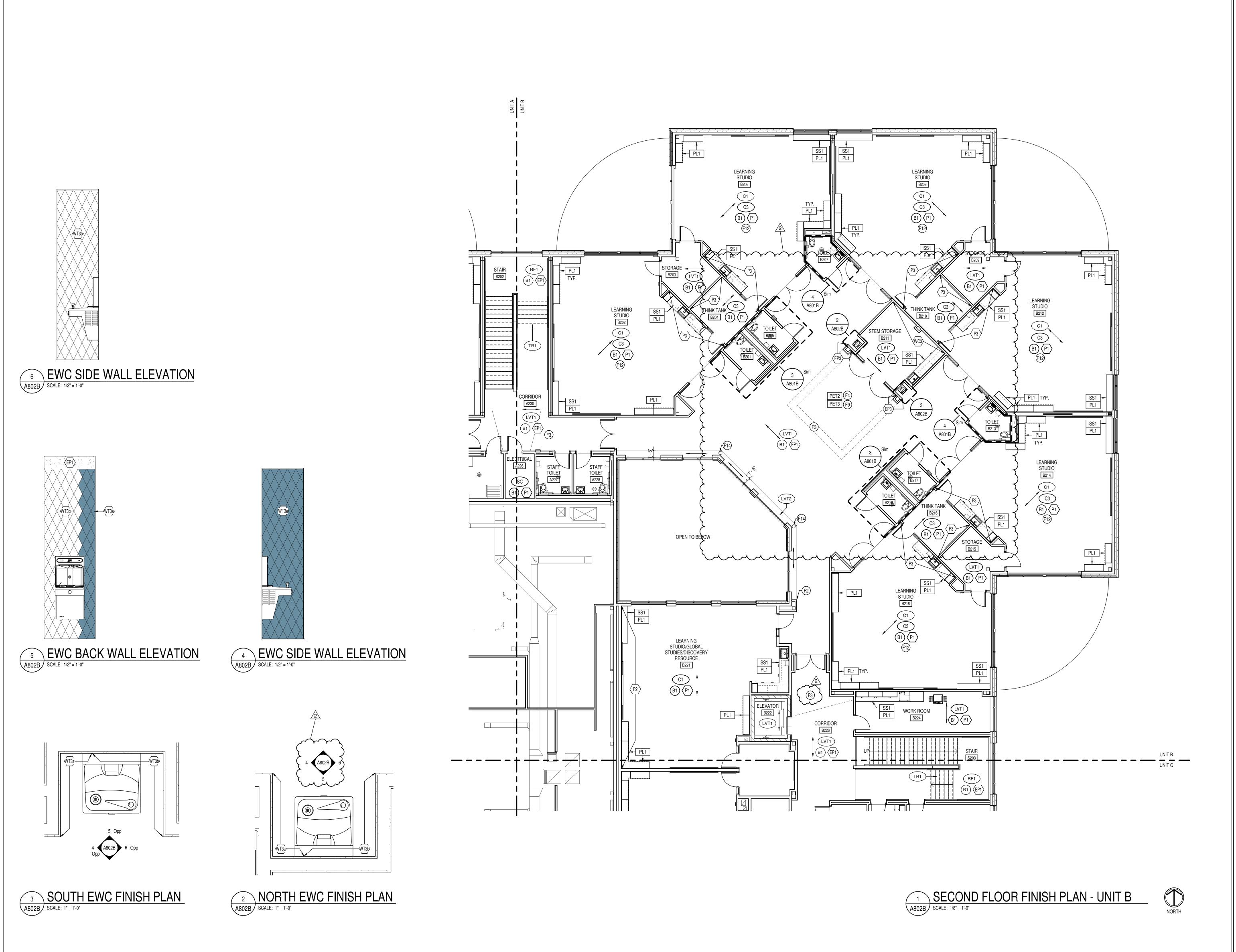
ISSUE DATE DRAWN BY CHECKED BY 01/15/2024 KLV MEO

SECOND FLOOR FINISH PLAN -UNIT A



DRAWING NUMBER
A802A

PROJECT NUMBER
2021119



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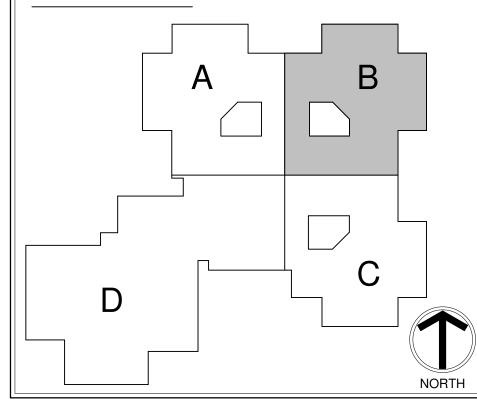
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# **KEY PLAN**





Crossing, Indianapolis, IN 46240

ADDITIONS & RENOVATIONS TO FISHERS ELEMENTARY

SCHOOL

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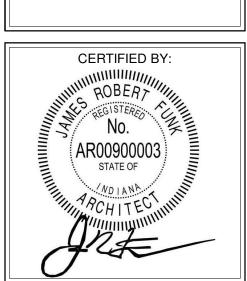
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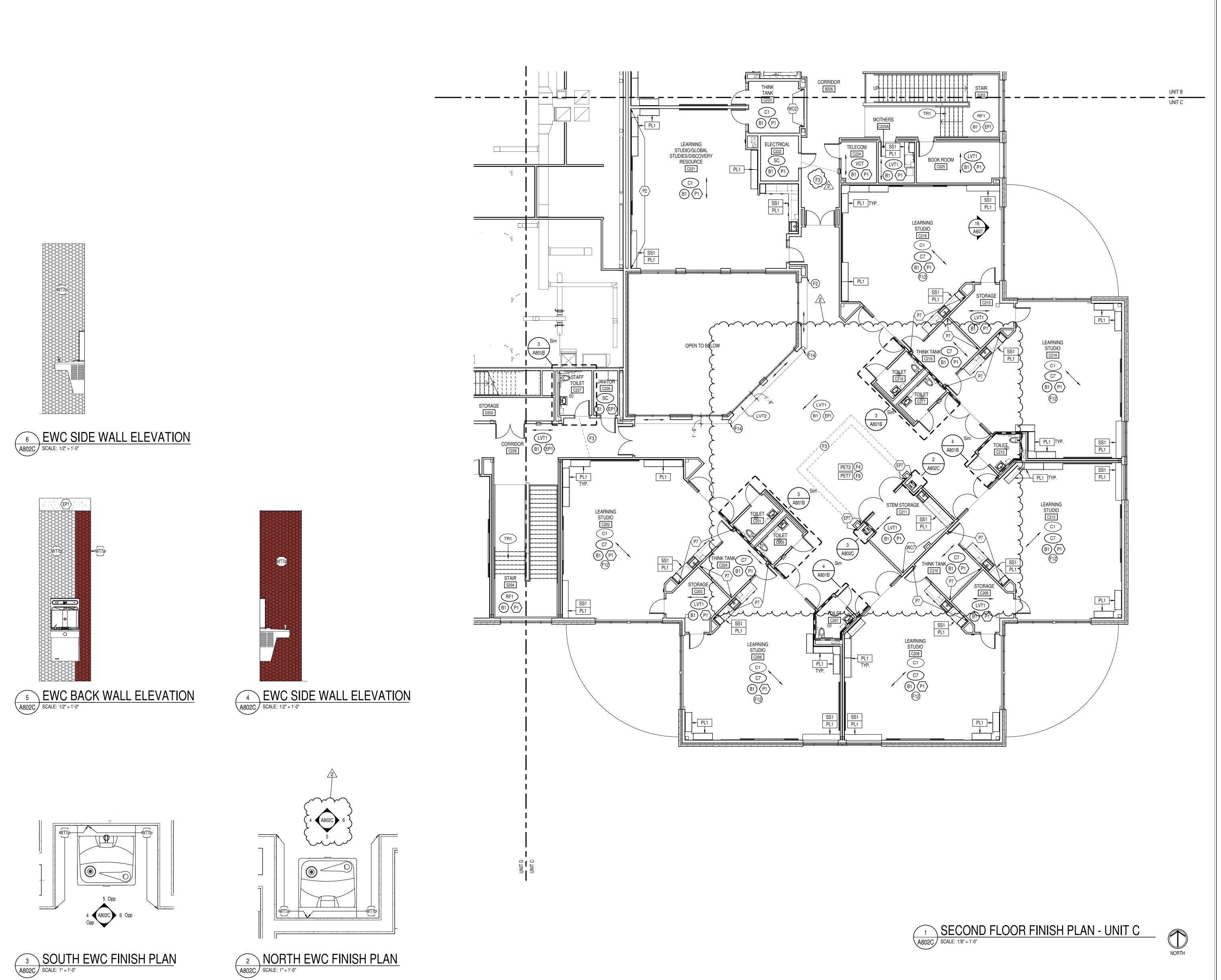
SECOND FLOOR FINISH PLAN -

UNIT B



A802B

PROJECT NUMBER
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ACCENT WALL FINISH

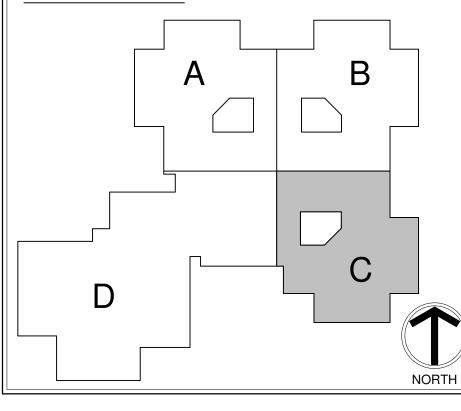
FLOORING INSTALL DIRECTION

REFLECTED CEILING PLAN.

# FINISH PLAN NOTES

- 1 NO FINISH WORK THIS AREA, UNLESS NOTED OTHERWISE.
- F2 ALIGN FLOOR TRANSITION WITH OUTSIDE CORNER OR AS INDICATED ON PLAN. F3 ALL FACES OF ABOVE BULKHEAD TO BE PAINTED IN COLOR INDICATED ON
- F4 EXPOSED CEILING AND STRUCTURE TO BE PAINTED TO MATCH (P9).
- F5 INSTALL ONE FULL COURSE OF (TB) FROM TOP OF FINISHED FLOOR. INSTALL (WT8) FROM TOP OF (TB) 20 FULL COURSES. (EP1) OR INDICATED WALL FINISH TO BE INSTALLED FROM TOP OF TILE WAINSCOT TO CEILING. UTILIZE SCHLUTER JOLLY IN BRUSHED STAINLESS STEEL BETWEEN TILE TYPES AND AT TOP OF WAINSCOT. REFERENCE 1/A800 FOR TYPICAL ELEVATION. F6 ACROVYN SHEET TO BE APPLIED ON BACK WALL, SIDE WALLS, AND INTERIOR
- CEILING OF NOOK. UTILIZE CLEAR CAULK AT INSIDE CORNERS AND SEAMS. REFER TO ADJACENT FINISH TAGS FOR COLOR SELECTION.
- 7 BACKSPLASH TILE TO SPAN WALL IN-BETWEEN CABINETS. VERTICAL STACK BOND INSTALLATION. F8 WALL MOUNTED ACOUSTIC PANELS IN THIS SPACE. WRAP WITH MATERIAL CALLED
- OUT IN ADJACENT FINISH TAG. REFERENCE A600 SERIES FOR EXTENT. F9 CEILING MOUNTED ACOUSTIC ELEMENTS IN THIS SPACE. COLOR TO BE AS INDICATED IN ADJACENT FINISH TAG ON PLAN.
- F10 INSTALL (WT1) FROM TOP OF EPOXY BASE TO 5'-4" A.F.F. (5 FULL COURSES). (EP1) TO BE PAINTED FROM TOP OF TILE WAINSCOT TO CEILING.
- 11 DIMENSIONAL SIGNAGE IN THIS LOCATION. REFERENCE 10/A604 FOR EXTENT. F12 CLASSROOM FIELD CARPET TO BE (C1). RANDOMLY INSTALL NOTED ACCENT CARPET FROM ENTRY DOOR/SGR TO MAKE UP APPROXIMATELY 20% OF CLASSROOM CARPET. REFERENCE 2/A801B FOR EXAMPLE.
- F13 UPHOLSTERED CUSHION. 3" THICK FOAM, SIZE TO BE 18" X 36" AND 18" X 18". UPHOLSTERY TO BE RANDOM MIX OF (UPH3), (UPH4), (UPH5), (UPH6), AND (UPH7). F14 COLUMN TO BE PAINTED TO MATCH (P8).
- F15 WALL PADDING TO BE INSTALLED TIGHT FROM TOP OF FINISHED FLOOR TO CEILING, INCLUDING BACK OF DOOR. COLOR TO BE SELECTED FROM MFR'S FULL
- F16 MIX (WT2a) AND (WT2b) FOR INSTALL AND PERCENTAGE, SEE ELEVATION 3/A801A. F17 TYPICAL CORRIDOR WALL TILE (WT8) TO END AT CORNER INDICATED ON PLAN. F18 EXPOSED ROOF DECK TO BE PAINTED (P9). EXPOSED ROOF STRUCTURE TO BE

# **KEY PLAN**



2021119

Hamilton

Southeastern Schools

ADDITIONS FISHERS

SCOPE DRAWINGS: These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

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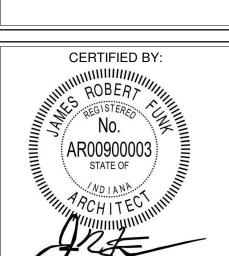
> **REVISIONS:** ADD #2 02/02/2024

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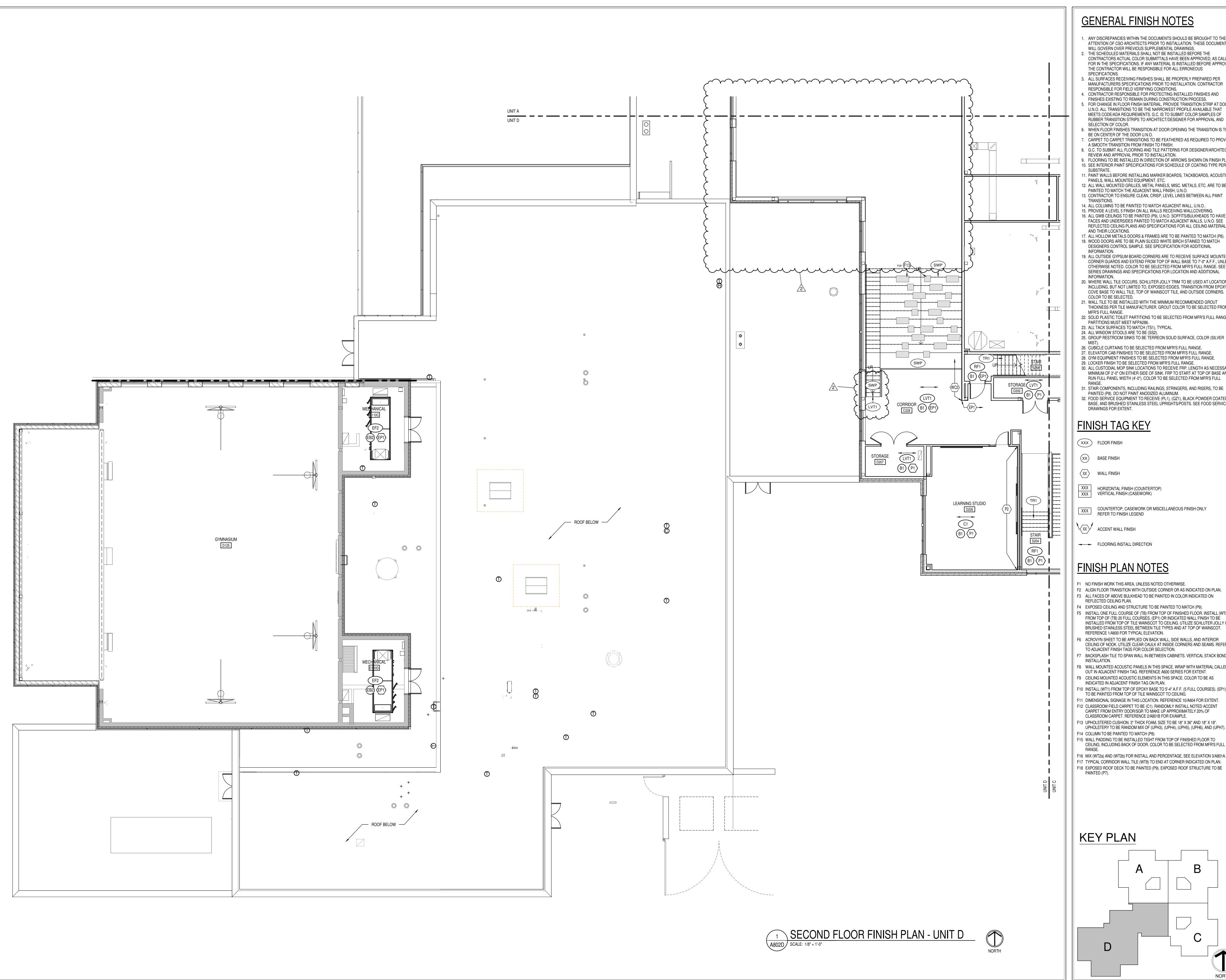
01/15/2024 KLV MEO

DRAWING TITLE: SECOND FLOOR FINISH PLAN -

UNIT C



DRAWING NUMBER A802C PROJECT NUMBER



- ANY DISCREPANCIES WITHIN THE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF CSO ARCHITECTS PRIOR TO INSTALLATION. THESE DOCUMENTS
- WILL GOVERN OVER PREVIOUS SUPPLEMENTAL DRAWINGS. THE SCHEDULED MATERIALS SHALL NOT BE INSTALLED BEFORE THE CONTRACTORS ACTUAL COLOR SUBMITTALS HAVE BEEN APPROVED, AS CALLED FOR IN THE SPECIFICATIONS. IF ANY MATERIAL IS INSTALLED BEFORE APPROVAL, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL ERRONEOUS
- 3. ALL SURFACES RECEIVING FINISHES SHALL BE PROPERLY PREPARED PER MANUFACTURERS SPECIFICATIONS PRIOR TO INSTALLATION. CONTRACTOR
- RESPONSIBLE FOR FIELD VERIFYING CONDITIONS.
- 4. CONTRACTOR RESPONSIBLE FOR PROTECTING INSTALLED FINISHES AND FINISHES EXISTING TO REMAIN DURING CONSTRUCTION PROCESS. 5. FOR CHANGE IN FLOOR FINISH MATERIAL, PROVIDE TRANSITION STRIP AT DOOR U.N.O. ALL TRANSITIONS TO BE THE NARROWEST PROFILE AVAILABLE THAT
- SELECTION OF COLOR. 6. WHEN FLOOR FINISHES TRANSITION AT DOOR OPENING THE TRANSITION IS TO
- BE ON CENTER OF THE DOOR U.N.O. 7. CARPET TO CARPET TRANSITIONS TO BE FEATHERED AS REQUIRED TO PROVIDE
- A SMOOTH TRANSITION FROM FINISH TO FINISH. 8. G.C. TO SUBMIT ALL FLOORING AND TILE PATTERNS FOR DESIGNER/ARCHITECT REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- 9. FLOORING TO BE INSTALLED IN DIRECTION OF ARROWS SHOWN ON FINISH PLAN. 10. SEE INTERIOR PAINT SPECIFICATIONS FOR SCHEDULE OF COATING TYPE PER SUBSTRATE.
- 11. PAINT WALLS BEFORE INSTALLING MARKER BOARDS, TACKBOARDS, ACOUSTIC PANELS, WALL MOUNTED EQUIPMENT, ETC. 12. ALL WALL MOUNTED GRILLES, METAL PANELS, MISC. METALS, ETC. ARE TO BE
- PAINTED TO MATCH THE ADJACENT WALL FINISH, U.N.O. 13. CONTRACTOR TO ENSURE CLEAN, CRISP, LEVEL LINES BETWEEN ALL PAINT TRANSITIONS.
- 16. ALL GWB CEILINGS TO BE PAINTED (P9), U.N.O. SOFFITS/BULKHEADS TO HAVE FACES AND UNDERSIDES PAINTED TO MATCH ADJACENT WALLS, U.N.O. SEE REFLECTED CEILING PLANS AND SPECIFICATIONS FOR ALL CEILING MATERIALS AND THEIR LOCATIONS.
- 17. ALL HOLLOW METALS DOORS & FRAMES ARE TO BE PAINTED TO MATCH (P8). 18. WOOD DOORS ARE TO BE PLAIN SLICED WHITE BIRCH STAINED TO MATCH DESIGNERS CONTROL SAMPLE. SEE SPECIFICATION FOR ADDITIONAL
- 19. ALL OUTSIDE GYPSUM BOARD CORNERS ARE TO RECEIVE SURFACE MOUNTED CORNER GUARDS AND EXTEND FROM TOP OF WALL BASE TO 7'-0" A.F.F., UNLESS OTHERWISE NOTED. COLOR TO BE SELECTED FROM MFR'S FULL RANGE. SEE 900 SERIES DRAWINGS AND SPECIFICATIONS FOR LOCATION AND ADDITIONAL INFORMATION.
- 20. WHERE WALL TILE OCCURS, SCHLUTER JOLLY TRIM TO BE USED AT LOCATIONS INCLUDING, BUT NOT LIMITED TO, EXPOSED EDGES, TRANSITION FROM EPOXY COVE BASE TO WALL TILE, TOP OF WAINSCOT TILE, AND OUTSIDE CORNERS.
- 21. WALL TILE TO BE INSTALLED WITH THE MINIMUM RECOMMENDED GROUT THICKNESS PER TILE MANUFACTURER. GROUT COLOR TO BE SELECTED FROM
- 22. SOLID PLASTIC TOILET PARTITIONS TO BE SELECTED FROM MFR'S FULL RANGE. PARTITIONS MUST MEET NFPA286. 23. ALL TACK SURFACES TO MATCH (TS1), TYPICAL.
- 25. GROUP RESTROOM SINKS TO BE TERREON SOLID SURFACE, COLOR (SILVER
- 26. CUBICLE CURTAINS TO BE SELECTED FROM MFR'S FULL RANGE. 27. ELEVATOR CAB FINISHES TO BE SELECTED FROM MFR'S FULL RANGE. 28. GYM EQUIPMENT FINISHES TO BE SELECTED FROM MFR'S FULL RANGE.
- 29. LOCKER FINISH TO BE SELECTED FROM MFR'S FULL RANGE. 30. ALL CUSTODIAL MOP SINK LOCATIONS TO RECEIVE FRP. LENGTH AS NECESSARY, MINIMUM OF 2'-0" ON EITHER SIDE OF SINK. FRP TO START AT TOP OF BASE AND RUN FULL PANEL WIDTH (4'-0"). COLOR TO BE SELECTED FROM MFR'S FULL
- 31. STAIR COMPONENTS, INCLUDING RAILINGS, STRINGERS, AND RISERS, TO BE PAINTED (P8). DO NOT PAINT ANODIZED ALUMINUM.
- 32. FOOD SERVICE EQUIPMENT TO RECEIVE (PL1), (QZ1), BLACK POWDER COATED BASE, AND BRUSHED STAINLESS STEEL UPRIGHTS/POSTS. SEE FOOD SERVICE
- DRAWINGS FOR EXTENT.

## FINISH TAG KEY

(XXX) FLOOR FINISH

XXX HORIZONTAL FINISH (COUNTERTOP) XXX VERTICAL FINISH (CASEWORK)

COUNTERTOP, CASEWORK OR MISCELLANEOUS FINISH ONLY REFER TO FINISH LEGEND

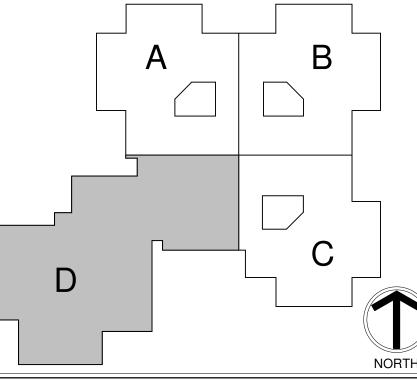
≺XX У ACCENT WALL FINISH

FLOORING INSTALL DIRECTION

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# **KEY PLAN**





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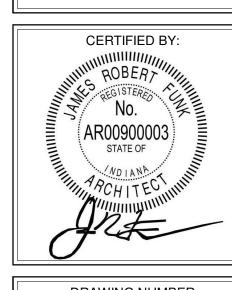
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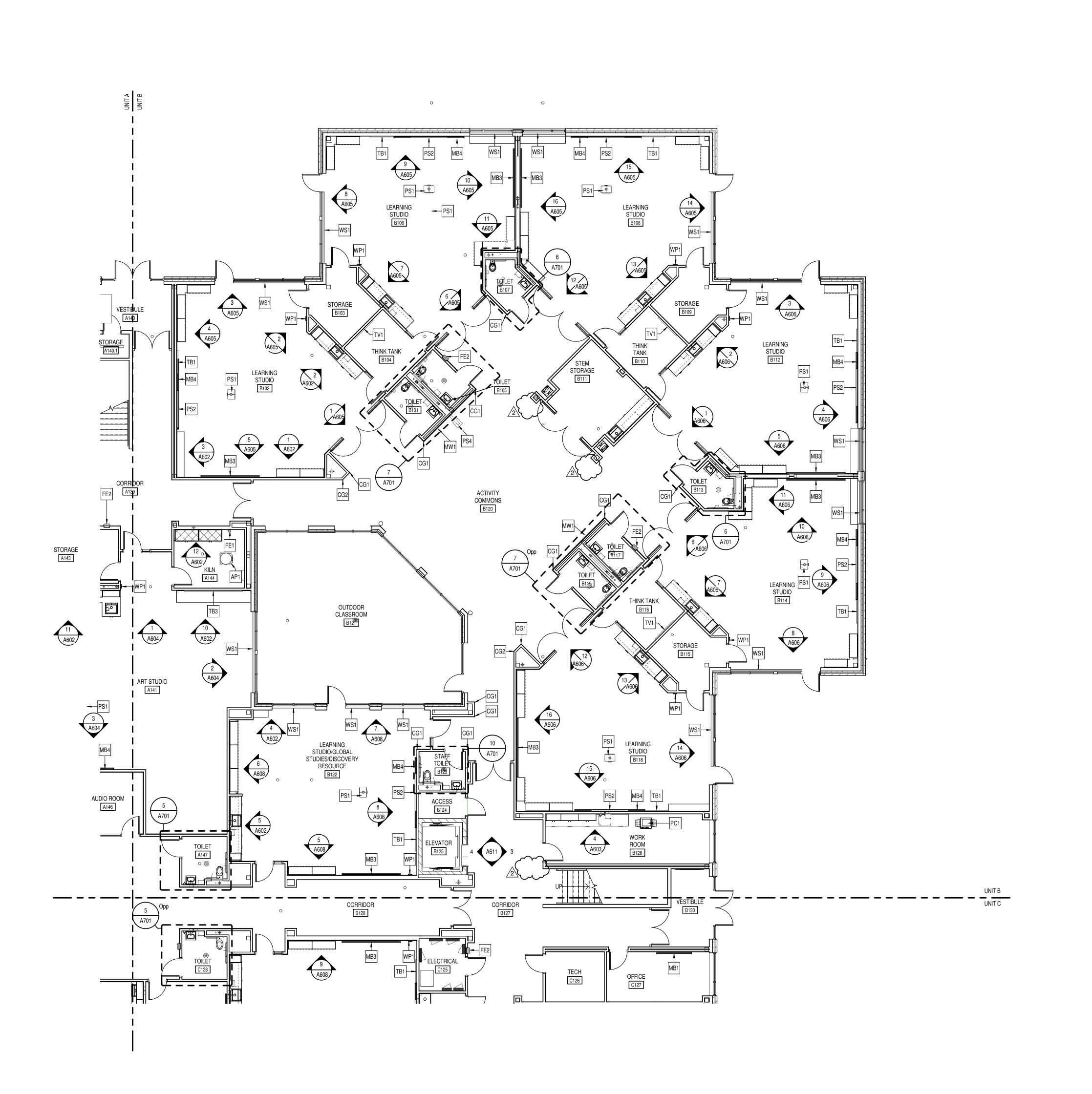
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DRAWING TITLE: SECOND FLOOR FINISH PLAN -



A802D PROJECT NUMBER

2021119



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ADDITIONS & RENOVATIONS TO FISHERS IN 46038

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

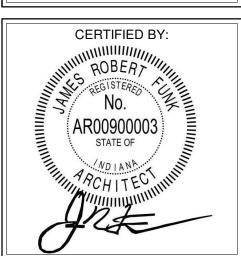
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REVISIONS: 2 ADD #2 02/02/2024

ISSUE DATE DRAWN BY CHECKED BY 01/15/2024 JNC ECN

FIRST FLOOR
EQUIPMENT
PLAN - UNIT B

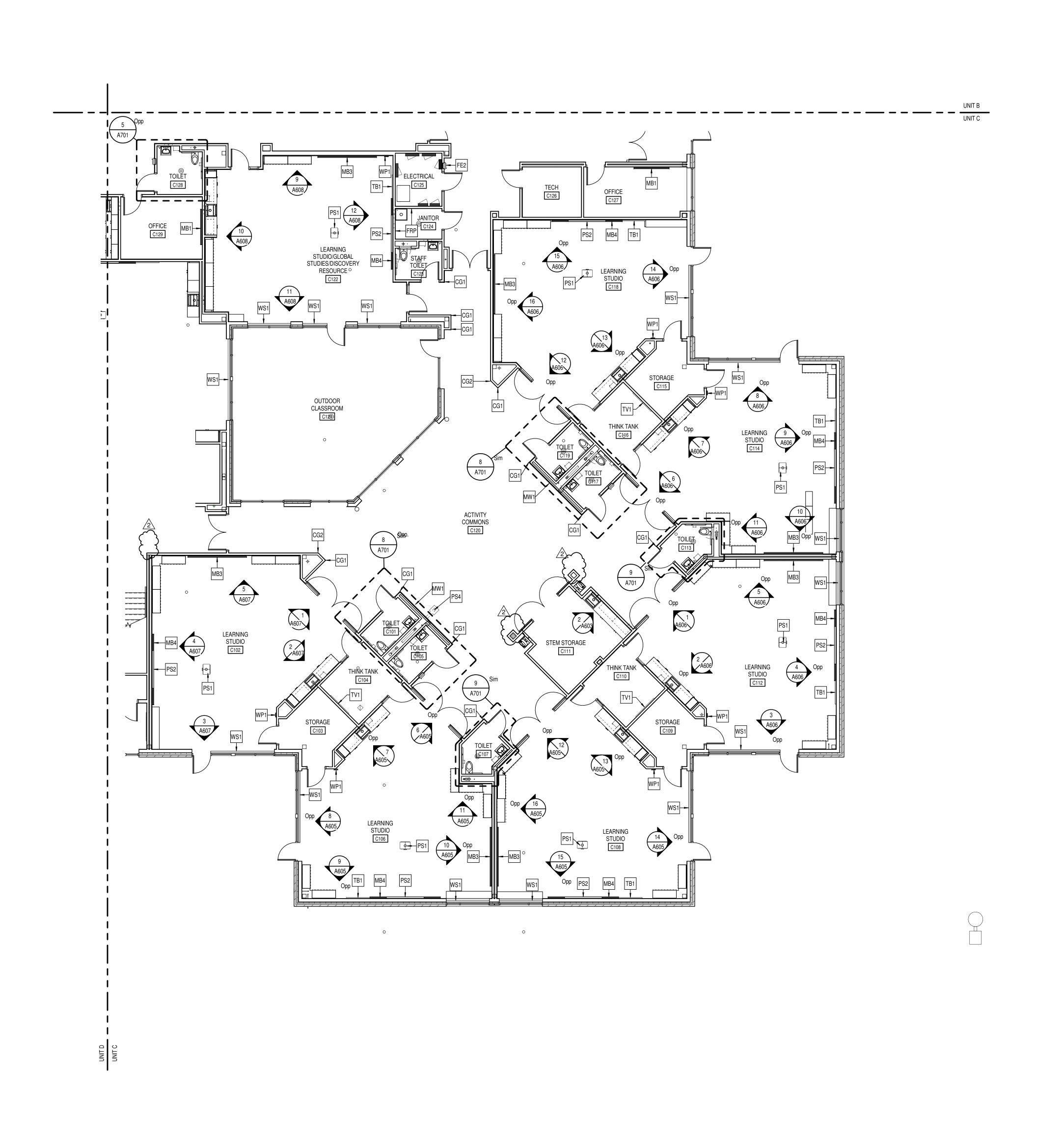


KEY PLAN

DRAWING NUMBER
A901B

PROJECT NUMBER
2021119

1 FIRST FLOOR EQUIPMENT PLAN - UNIT B
A901B SCALE: 1/8" = 1'-0"



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ILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL

SCOPE DRAWINGS:

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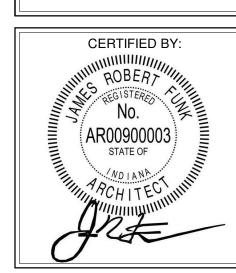
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FIRST FLOOR
EQUIPMENT
PLAN - UNIT C

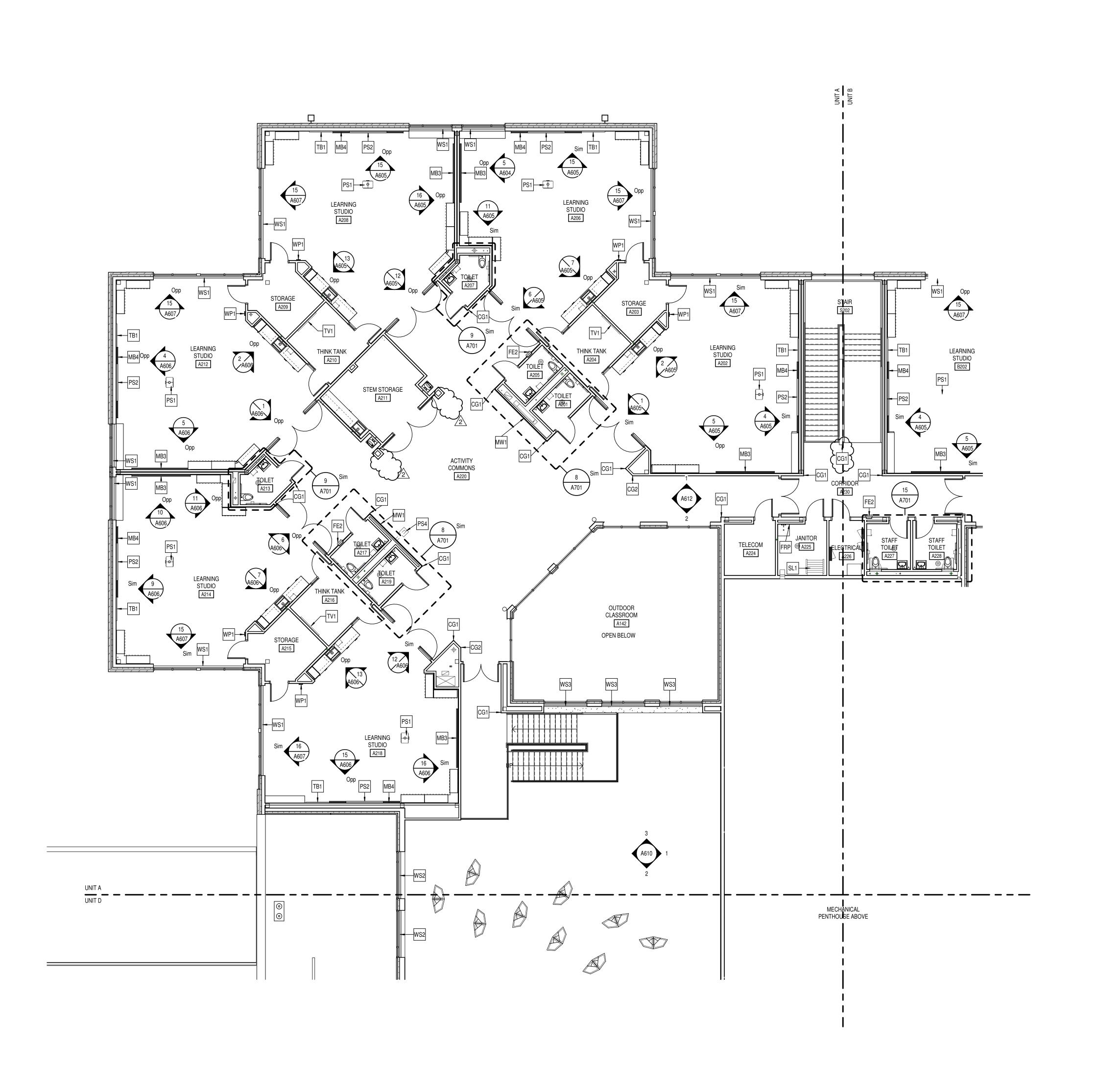


KEY PLAN

DRAWING NUMBER
A901C

PROJECT NUMBER
2021119

1 FIRST FLOOR EQUIPMENT PLAN - UNIT C
A901C SCALE: 1/8" = 1'-0"





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ADDITIONS & RENOVATIONS TO ADDITIONS & RENOVATIONS TO FISHERS ELEMENTARY

SCHOOL

SCOPE DRAWINGS:

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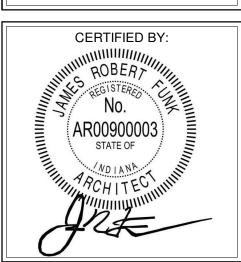
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SECOND FLOOR
EQUIPMENT
PLAN - UNIT A



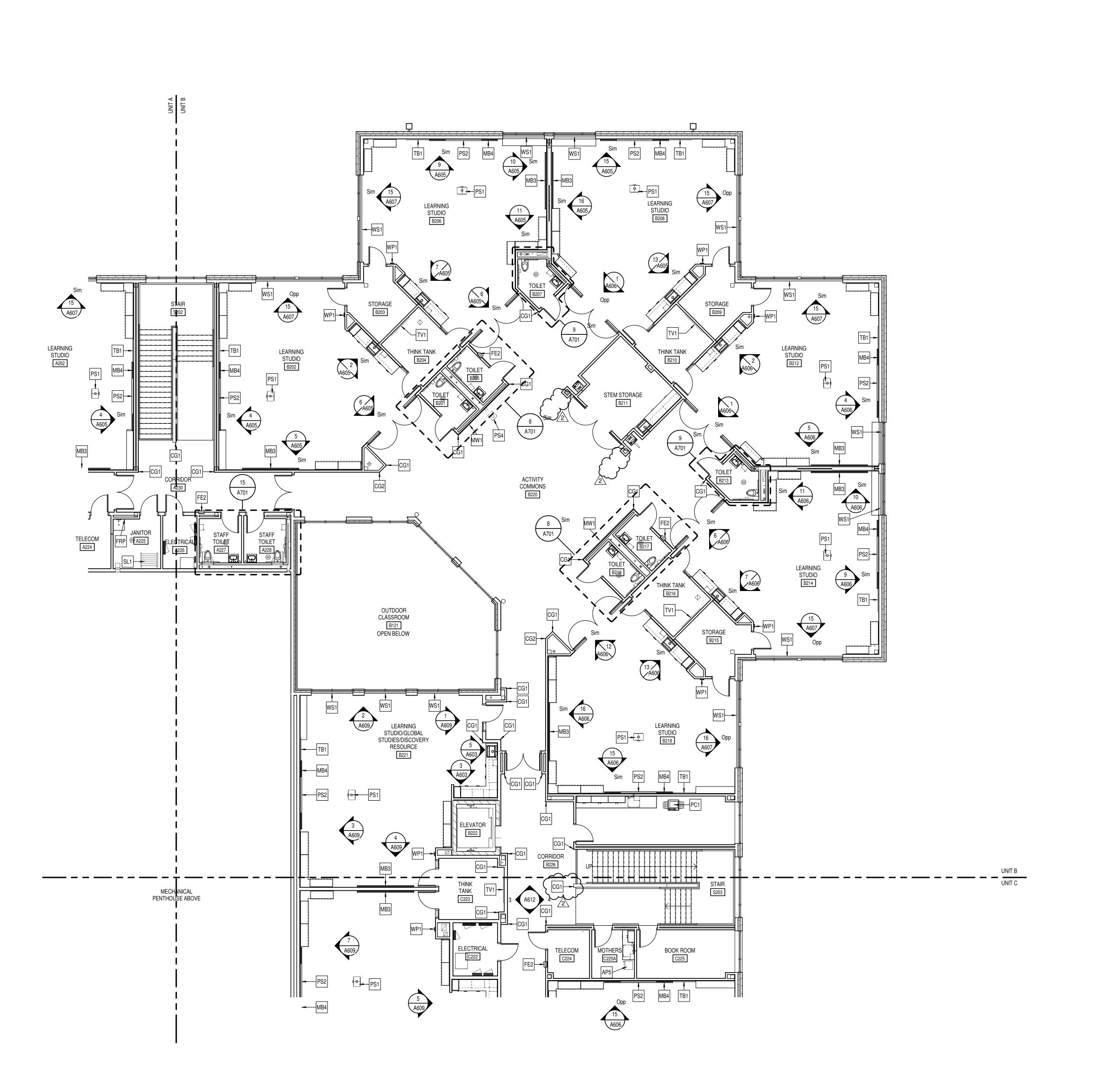
KEY PLAN

DRAWING NUMBER
A902A

PROJECT NUMBER
2021119

SECOND FLOOR EQUIPMENT PLAN - UNIT A

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





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AILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
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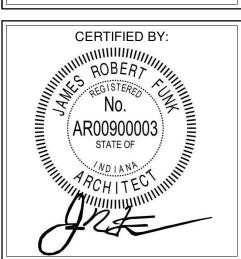
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SECOND FLOOR
EQUIPMENT
PLAN - UNIT B



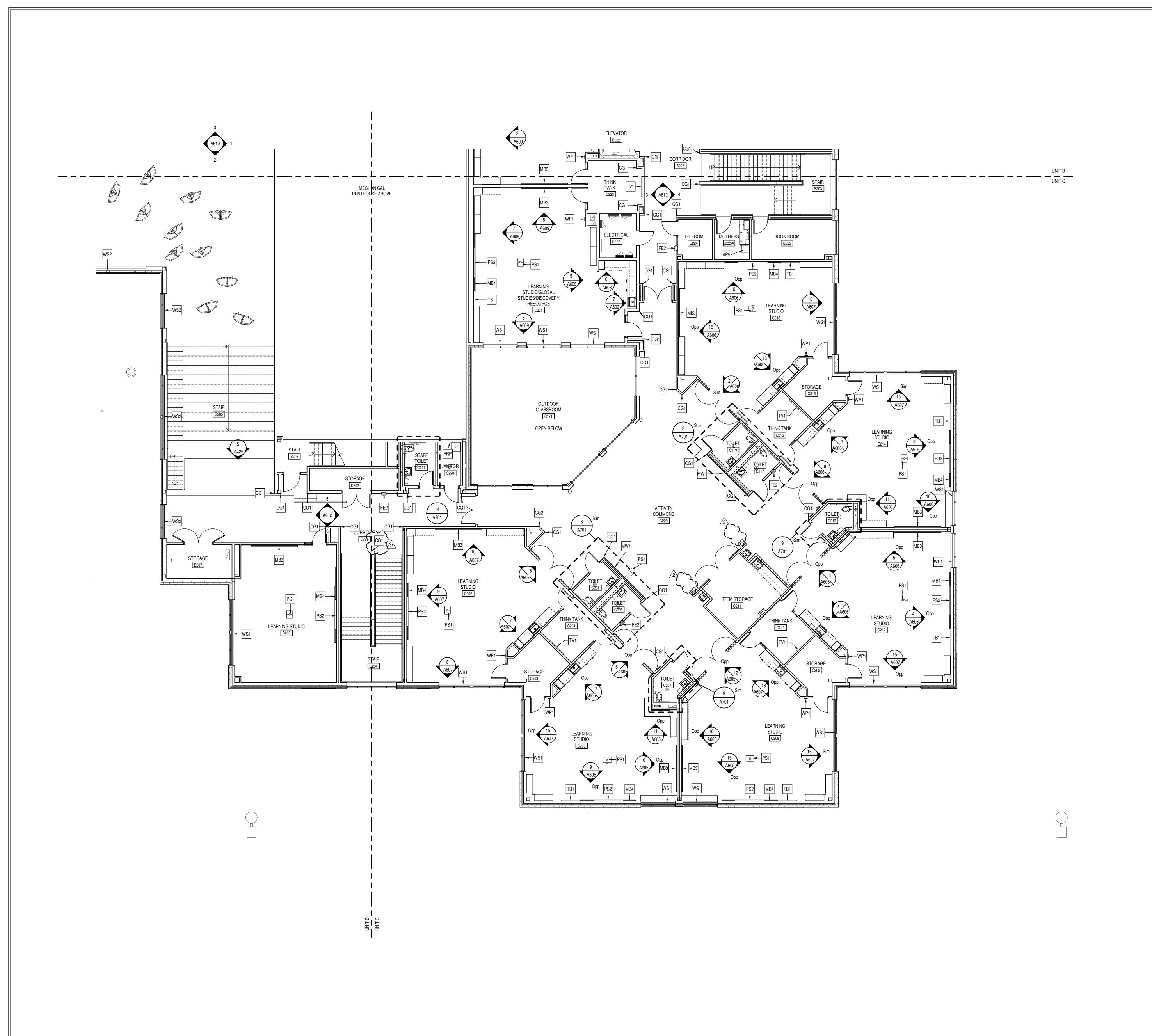
KEY PLAN

A902B

PROJECT NUMBER
2021119

SECOND FLOOR EQUIPMENT PLAN - UNIT B

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



KEY PLAN

A
B
C
D
NORTH

Hamilton Southeastern Schools

S831 Keystone Crossing, Indianapolis, IN 46240

N SOUTHEASTERN SCHOOLS
IONS & RENOVATIONS TO
HERS ELEMENTARY
SCHOOL

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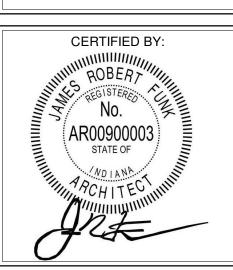
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SECOND FLOOR
EQUIPMENT
PLAN - UNIT C

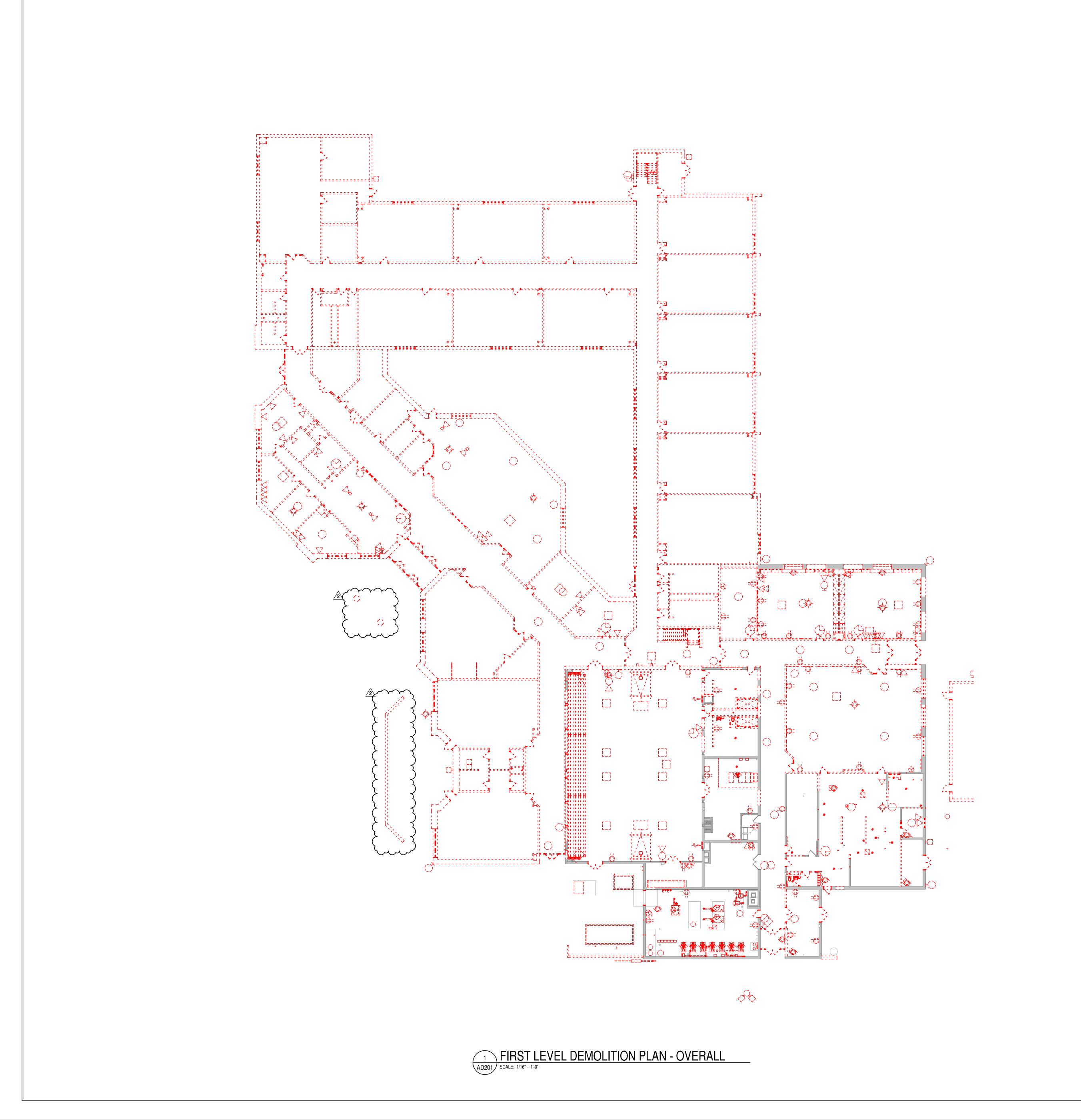


DRAWING NUMBER
A902C

PROJECT NUMBER
2021119

SECOND FLOOR EQUIPMENT PLAN - UNIT C

A902C SCALE: 1/8" = 1'-0"



- A. HEAVY DASHED LINES INDICATE STRUCTURE, WALLS AND ITEMS TO BE DEMOLISHED UNLESS NOTED OTHERWISE.
- DEMOLISHED UNLESS NOTED OTHERWISE.

  B. SOLID LINES INDICATE STRUCTURE, WALLS, & ITEMS TO REMAIN, UNLESS NOTED OTHERWISE.

  C. PROTECT ALL FINISHES, EQUIPMENT & OTHER ITEMS TO REMAIN. WHERE
- DAMAGE OCCURS, PATCH AND REPAIR OR OTHERWISE RESTORE TO ITS ORIGINAL CONDITION OR REPLACE.

  D. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION AND
- D. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION AND RELATED CONDITIONS PRIOR TO STARTUP OF DEMOLITION OR NEW CONSTRUCTION.
- E. COORDINATE EXTENTS AND EXACT DIMENSIONS WITH EXTENTS AND EXACT DIMENSIONS OF NEW WORK.

  ANY AND ALL DISCREPANCIES SHALL BE REQUIRED TO THE IMMEDIATE
- F. ANY AND ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND OWNER.
  G. REMOVE ALL MISCELLANEOUS EQUIPMENT ATTACHED TO WALLS, FLOORS
- AND CEILINGS TO BE DEMOLISHED. COORDINATE WITH THE OWNER FOR ITEMS TO BE SALVAGED OR RE-INSTALLED.

  H. REMOVE ANY ITEMS NOT SPECIFICALLY IDENTIFIED TO BE REMOVED
- WHICH MUST OBVIOUSLY BE DEMOLISHED TO ACCOMMODATE NEW WORK. VERIFY WITH ARCHITECT.
  ALL OPENINGS, VOIDS, OR DAMAGED SURFACES LEFT BY THE REMOVAL OF EXISTING CONSTRUCTION, EQUIPMENT, PIPING, DUCTS, WINDOWS, ETC.,

SHALL BE PATCHED & REPAIRED TO MATCH SURROUNDING WORK.

- PREPARE TO RECEIVE NEW FINISHES AS REQUIRED.
  REMOVE ALL MASTIC, ADHESIVES, FASTENERS AND OTHER MATERIALS
  WHERE FINISHES (SUCH AS FLOORING, BASE) AND EQUIPMENT (SUCH AS
  CASEWORK, TACKBOARDS, MARKERBOARDS, MECHANICAL ITEMS, ETC.)
- HAVE BEEN REMOVED AT EXISTING SURFACES TO REMAIN.

  K. CONSTRUCT DUST AND SOUND CONTROL BARRIERS PRIOR TO THE START OF WORK.
- L. SEE SPECIFICATIONS FOR ASSIGNMENT OF RESPONSIBILITIES PERTAINING
  TO PATCHING AND REPAIR WORK REQUIRED OF EACH TRADE.

  M. DEMOLITION WORK TO BE COMPLETED BY MECHANICAL/PLUMBING,
  ELECTRICAL TRADES IS SHOWN ON OTHER SHEETS IN THIS SET OF
  - CONTRACT DOCUMENTS. THIS CONTRACTOR SHALL REVIEW THE DEMOLITION WORK OF OTHER TRADES TO DETERMINE WHERE SUCH WORK COULD AFFECT HIS WORK AND SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES.
- N. AT NEW OPENINGS IN EXISTING BRICK MASONRY WALLS, TOOTH IN BRICK TO MATCH EXISTING.
   O. AT NEW OPENINGS IN EXISTING CONCRETE MASONRY WALLS, TOOTH IN
- NEW CMU TO MATCH EXISTING.

  P. WHERE EXISTING SURFACE MOUNTED VISUAL DISPLAY BOARDS (MARKER, CHALK, TACK BOARDS) ARE BEING REMOVED FROM WALLS, WALL SURFACE BEHIND BOARD IS TO BE PREPARED TO MATCH TEXTURE OF SURROUNDING SURFACES. PROVIDE BLOCK FILLER AS REQUIRED AND PATCH MOUNTING HOLES COMPLETE. REMOVE PAINT BUILD UP AT BOARD
- Q. CONTRACTOR IS RESPONSIBLE FOR PREP WORK REQUIRED FOR FLOOR SLAB TO RECEIVE NEW FINISHES. PREP WORK TO INCLUDE: PATCH FLOOR SLAB AT AREAS THAT WILL BE CUT TO ACCOMMODATE NEW PLUMBING LINES OR WHERE CAPPING OF EXISTING LINES BELOW THE SLAB IS REQUIRED AND FILLING IN HOLES IN SLAB WHERE EXISTING MEP HAS BEEN ABANDONED.

**KEY PLAN - EXISTING** 



317.848.7800 | csoinc.net

ILLION SOUTHEASTERN SCHOOL
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
A1442 LANTERN RD, FISHERS, IN 46038

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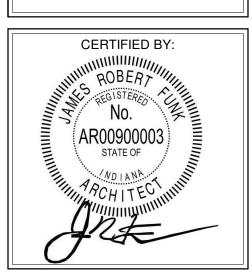
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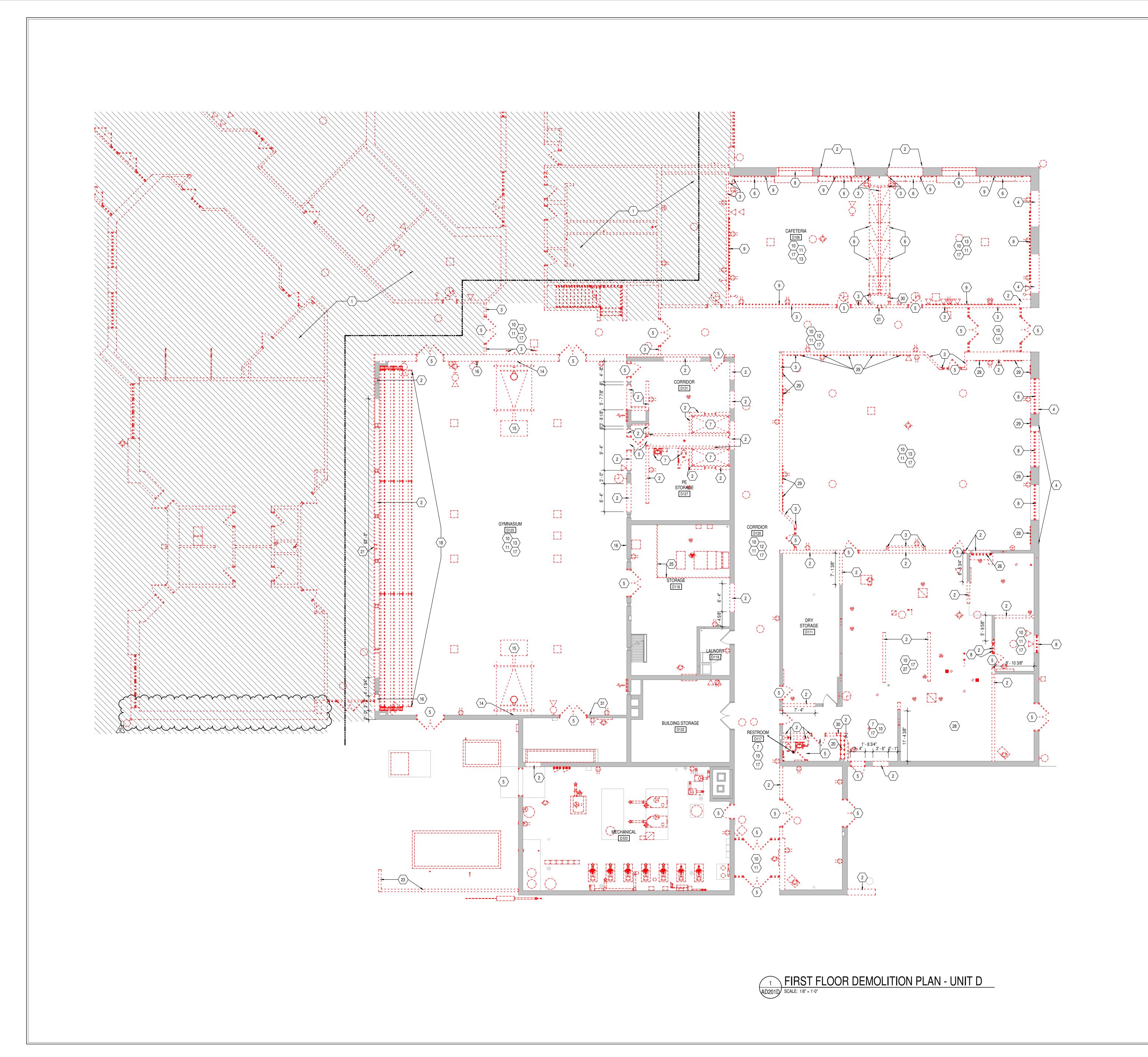
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OVERALL FIRST
LEVEL
DEMOLITION
PLAN



AD201

PROJECT NUMBER



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- F. ANY AND ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND OWNER.
   G. REMOVE ALL MISCELLANEOUS EQUIPMENT ATTACHED TO WALLS, FLOORS
- AND CEILINGS TO BE DEMOLISHED. COORDINATE WITH THE OWNER FOR ITEMS TO BE SALVAGED OR RE-INSTALLED.

  H. REMOVE ANY ITEMS NOT SPECIFICALLY IDENTIFIED TO BE REMOVED

  WHICH MUST OPVIOUSLY BE DEMOLISHED TO ACCOMMODATE NEW WORK
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  PREPARE TO RECEIVE NEW FINISHES AS REQUIRED.
  REMOVE ALL MASTIC, ADHESIVES, FASTENERS AND OTHER MATERIALS
  WHERE FINISHES (SUCH AS FLOORING, BASE) AND EQUIPMENT (SUCH AS
  CASEWORK, TACKBOARDS, MARKERBOARDS, MECHANICAL ITEMS, ETC.)
- HAVE BEEN REMOVED AT EXISTING SURFACES TO REMAIN.

  CONSTRUCT DUST AND SOUND CONTROL BARRIERS PRIOR TO THE START OF WORK.
- L. SEE SPECIFICATIONS FOR ASSIGNMENT OF RESPONSIBILITIES PERTAINING
   TO PATCHING AND REPAIR WORK REQUIRED OF EACH TRADE.
   M. DEMOLITION WORK TO BE COMPLETED BY MECHANICAL/PLUMBING,
- ELECTRICAL TRADES IS SHOWN ON OTHER SHEETS IN THIS SET OF CONTRACT DOCUMENTS. THIS CONTRACTOR SHALL REVIEW THE DEMOLITION WORK OF OTHER TRADES TO DETERMINE WHERE SUCH WORK COULD AFFECT HIS WORK AND SHALL COORDINATE HIS WORK WITH
- THE WORK OF ALL OTHER TRADES.

  N. AT NEW OPENINGS IN EXISTING BRICK MASONRY WALLS, TOOTH IN BRICK TO MATCH EXISTING.
- TO MATCH EXISTING.

  O. AT NEW OPENINGS IN EXISTING CONCRETE MASONRY WALLS, TOOTH IN NEW CMU TO MATCH EXISTING.
- NEW CMU TO MATCH EXISTING.

  P. WHERE EXISTING SURFACE MOUNTED VISUAL DISPLAY BOARDS (MARKER, CHALK, TACK BOARDS) ARE BEING REMOVED FROM WALLS, WALL SURFACE BEHIND BOARD IS TO BE PREPARED TO MATCH TEXTURE OF SURROUNDING SURFACES. PROVIDE BLOCK FILLER AS REQUIRED AND PATCH MOUNTING HOLES COMPLETE. REMOVE PAINT BUILD UP AT BOARD
- Q. CONTRACTOR IS RESPONSIBLE FOR PREP WORK REQUIRED FOR FLOOR SLAB TO RECEIVE NEW FINISHES. PREP WORK TO INCLUDE: PATCH FLOOR SLAB AT AREAS THAT WILL BE CUT TO ACCOMMODATE NEW PLUMBING LINES OR WHERE CAPPING OF EXISTING LINES BELOW THE SLAB IS REQUIRED AND FILLING IN HOLES IN SLAB WHERE EXISTING MEP HAS BEEN ABANDONED.

#### **DEMOLITION NOTES**

- REMOVE ALL EXISTING CONSTRUCTION IN THIS AREA COMPLETELY, INCLUDING BUT NOT LIMITED TO ROOF SYSTEM, STRUCTURE, CONCRETE FLOOR SLAB, FOUNDATIONS, WALLS, DOORS, WINDOWS, CEILINGS, FINSIHES, ETC.
- REMOVE MASONRY WALL AS REQUIRED/INDICATED FOR NEW WORK REMOVE METAL STUD AND GYPSUM BOARD WALL CONSTRUCTION AS REQUIRED/INDICATED FOR NEW WORK.
- REQUIRED/INDICATED FOR NEW WORK.

  REMOVE PORTION OF MASONRY OR STUD WALL AS REQUIRED FOR INSTALLATION OF NEW DOOR AND/OR ROBROWED LITE AND LINTEL
- INSTALLATION OF NEW DOOR AND/OR BORROWED LITE AND LINTEL. REMOVE DOOR, FRAME, AND HARDWARE COMPLETELY.

AND ACCESSORIES IN RESTROOM.

- REMOVE CASEWORK AND ALL ACCESSORIES COMPLETELY. REPAIR/CLEAN WALL AND PREP FOR NEW FINISH AS SCHEDULED WHERE APPLICABLE.
  REMOVE PLUMBING FIXTURES, WALL VANITY, TOILET PARTITIONS, EQUIPMENT,
- REMOVE EXISTING WINDOW COMPLETELY. PREPARE OPENING TO RECEIVE
  NEW WORK.
  REMOVE VISUAL DISPLAY BOARD COMPLETELY. PATCH AND REPAIR WALL FOR
- NEW FINISH AS SCHEDULED.

  10 REMOVE SUSPENDED CEILING COMPLETELY.
- 11 REMOVE FLOORING, BASE FINISHES, AND ADHESIVES COMPLETELY. PATCH AND PREP SURFACES FOR NEW FINISHES.
   12 REMOVE BULKHEADS IN CORRIDOR COMPLETELY.
- 13 REMOVE ALL PROJECTORS AND PROJECTION SCREENS IN THIS ROOM COMPLETELY.
- 15 REMOVE ALL CEILING-SUSPENDED GYMNASIUM EQUIPMENT COMPLETELY, INCLUDING ROPES, NETS, AND BASKETBALL STOPS.
   16 REMOVE AND REPLACE WIRE COVER.
- 17 REMOVE EXISTING LIGHT FIXTURES, TO BE REPLACED WITH NEW LIGHTING FIXTURES.
   18 REMOVE BLEACHERS COMPLETELY. PREP SURFACE FOR SCHEDULED FINISH
- 19 REMOVE BELACTIONS COMPLETE. PROTECT MASONRY AND PREPARE FOR NEW PARAPET CONDITION.
- 20 REMOVE LOCKERS COMPLETELY. PREP SURFACES FOR SCHEDULED FINISH.
  21 REMOVE FIRE EXTINGUISHER CABINET COMPLETELY.
  22 REMOVE PROPERLY DOWN TO DECK. PREPARE A FOR TO RECEIVE NEW PROPERLY.
- 22 REMOVE ROOFING DOWN TO DECK. PREPARE AREA TO RECEIVE NEW ROOFING.
  23 REMOVE EXTERIOR FENCING LOCATED AT MECHANICAL COURTYARD
  24 REMOVE PORTION OF CHIMNEY DOWN TO UNDERSIDE OF DECK
- 24 REMOVE PORTION OF CHIMNEY DOWN TO UNDERSI 25 REMOVE STORAGE CAGE COMPLETE.

14 REMOVE ALL ATHLETIC WALL PADDING COMPLETELY.

26 REMOVE OVERHEAD COILING DOOR COMPLETE.
27 REMOVE EXISTING KITCHEN EQUIPMENT COMPLETE.

**KEY PLAN - EXISTING** 

- 28 SLAB DEMO.
- 29 REMOVE EXISTING ACOUSTIC WALL PANELS. SALVAGE FOR REUPHOLSTERY AND REINSTALLATION. SEE ELEVATIONS FOR NEW LAYOUT.

  20 REMOVE WALL HANCING FIRE EXTINGUISHED COMPLETE.
- REMOVE WALL HANGING FIRE EXTINGUISHER COMPLETE.
   REMOVE ELECTRONIC SCOREBOARD. SAVE SCOREBOARD FOR REINSTALL IN NEW CONSTRUCTION.

Hamilton Southeastern Schools

Crossing, Indianapolis, IN 46240

AMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
SCHOOL
A11442 LANTERN RD, FISHERS, IN 46038

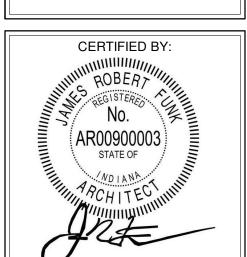
SCOPE DRAWINGS:
se drawings indicate the general scope of the proje
of architectural design concept, the dimensions of
ing, the major architectural elements and the type
ural, mechanical and electrical systems.
drawings do not necessarily indicate or describe al
uired for full performance and completion of the
nents of the Contract.
ne basis of the general scope indicated or describe
or contractors shall furnish all items required for the
xecution and completion of the work.

REVISIONS:

ADD #2 02/02/2024

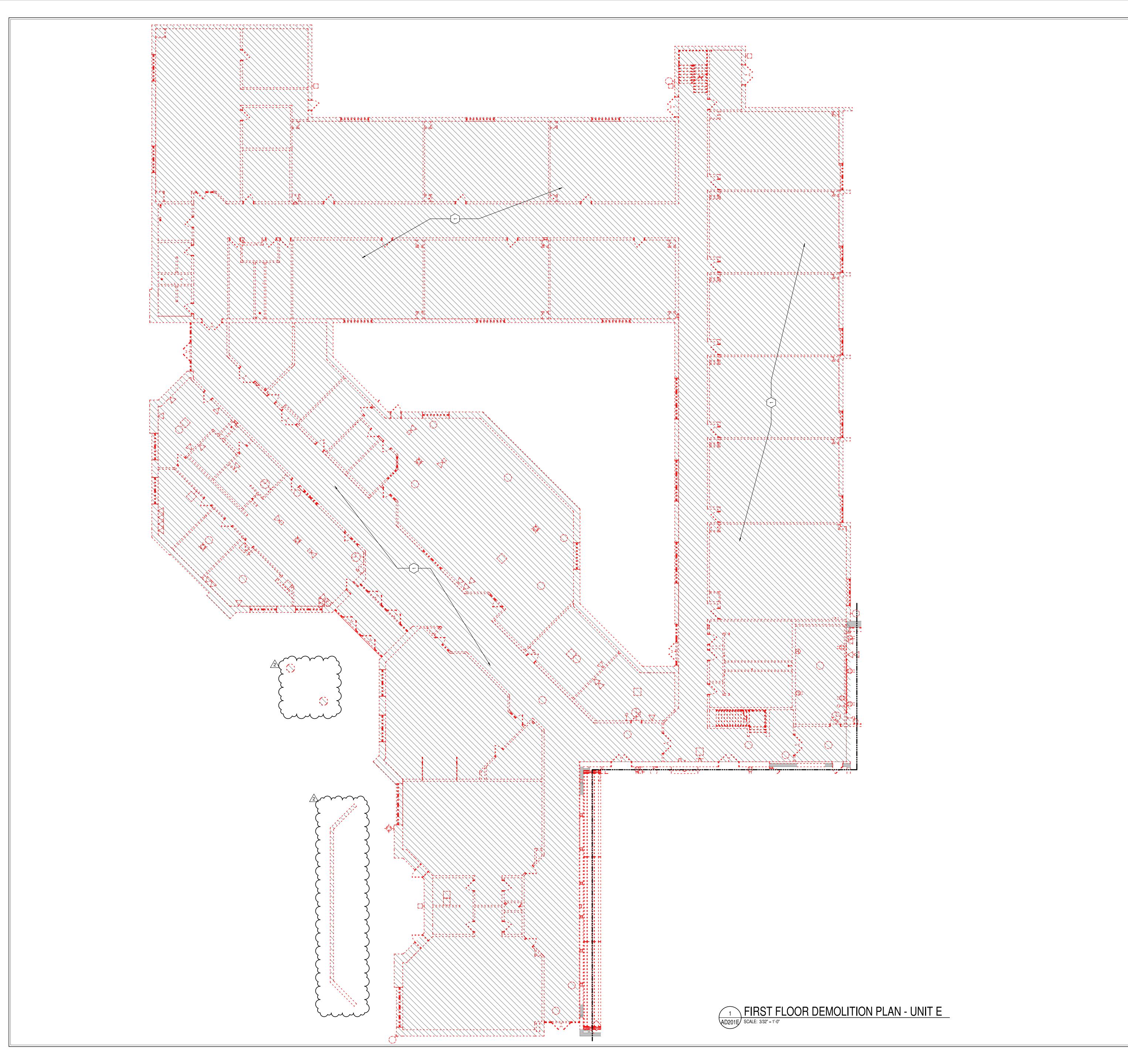
ISSUE DATE DRAWN BY CHECKED BY 01/15/2024 JNC ECN

FIRST FLOOR
DEMOLITION
PLAN - UNIT D



DRAWING NUMBER
AD201D

PROJECT NUMBER
2021119



- A. HEAVY DASHED LINES INDICATE STRUCTURE, WALLS AND ITEMS TO BE DEMOLISHED UNLESS NOTED OTHERWISE.
- B. SOLID LINES INDICATE STRUCTURE, WALLS, & ITEMS TO REMAIN, UNLESS NOTED OTHERWISE. C. PROTECT ALL FINISHES, EQUIPMENT & OTHER ITEMS TO REMAIN. WHERE DAMAGE OCCURS, PATCH AND REPAIR OR OTHERWISE RESTORE TO ITS
- ORIGINAL CONDITION OR REPLACE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION AND RELATED CONDITIONS PRIOR TO STARTUP OF DEMOLITION OR NEW
- CONSTRUCTION. E. COORDINATE EXTENTS AND EXACT DIMENSIONS WITH EXTENTS AND EXACT DIMENSIONS OF NEW WORK.
- F. ANY AND ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND OWNER.
- G. REMOVE ALL MISCELLANEOUS EQUIPMENT ATTACHED TO WALLS, FLOORS AND CEILINGS TO BE DEMOLISHED. COORDINATE WITH THE OWNER FOR ITEMS TO BE SALVAGED OR RE-INSTALLED.

H. REMOVE ANY ITEMS NOT SPECIFICALLY IDENTIFIED TO BE REMOVED

PREPARE TO RECEIVE NEW FINISHES AS REQUIRED.

- WHICH MUST OBVIOUSLY BE DEMOLISHED TO ACCOMMODATE NEW WORK. VERIFY WITH ARCHITECT. ALL OPENINGS, VOIDS, OR DAMAGED SURFACES LEFT BY THE REMOVAL OF
- EXISTING CONSTRUCTION, EQUIPMENT, PIPING, DUCTS, WINDOWS, ETC., SHALL BE PATCHED & REPAIRED TO MATCH SURROUNDING WORK.
- REMOVE ALL MASTIC, ADHESIVES, FASTENERS AND OTHER MATERIALS WHERE FINISHES (SUCH AS FLOORING, BASE) AND EQUIPMENT (SUCH AS CASEWORK, TACKBOARDS, MARKERBOARDS, MECHANICAL ITEMS, ETC.) HAVE BEEN REMOVED AT EXISTING SURFACES TO REMAIN.
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- M. DEMOLITION WORK TO BE COMPLETED BY MECHANICAL/PLUMBING, ELECTRICAL TRADES IS SHOWN ON OTHER SHEETS IN THIS SET OF CONTRACT DOCUMENTS. THIS CONTRACTOR SHALL REVIEW THE
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PATCH MOUNTING HOLES COMPLETE. REMOVE PAINT BUILD UP AT BOARD

Q. CONTRACTOR IS RESPONSIBLE FOR PREP WORK REQUIRED FOR FLOOR SLAB TO RECEIVE NEW FINISHES. PREP WORK TO INCLUDE: PATCH FLOOR SLAB AT AREAS THAT WILL BE CUT TO ACCOMMODATE NEW PLUMBING LINES OR WHERE CAPPING OF EXISTING LINES BELOW THE SLAB IS REQUIRED AND FILLING IN HOLES IN SLAB WHERE EXISTING MEP HAS BEEN

### **DEMOLITION NOTES**

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- REMOVE DOOR, FRAME, AND HARDWARE COMPLETELY. REMOVE CASEWORK AND ALL ACCESSORIES COMPLETELY. REPAIR/CLEAN
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- 8 REMOVE EXISTING WINDOW COMPLETELY. PREPARE OPENING TO RECEIVE 9 REMOVE VISUAL DISPLAY BOARD COMPLETELY. PATCH AND REPAIR WALL FOR
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- 15 REMOVE ALL CEILING-SUSPENDED GYMNASIUM EQUIPMENT COMPLETELY, INCLUDING ROPES, NETS, AND BASKETBALL STOPS. 16 REMOVE AND REPLACE WIRE COVER.
- 17 REMOVE EXISTING LIGHT FIXTURES, TO BE REPLACED WITH NEW LIGHTING 18 REMOVE BLEACHERS COMPLETELY. PREP SURFACE FOR SCHEDULED FINISH.
- 19 REMOVE EIFS AND METAL COPING COMPLETE. PROTECT MASONRY AND PREPARE FOR NEW PARAPET CONDITION.
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**KEY PLAN - EXISTING** 

- 28 SLAB DEMO.
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- 30 REMOVE WALL HANGING FIRE EXTINGUISHER COMPLETE. 31 REMOVE ELECTRONIC SCOREBOARD. SAVE SCOREBOARD FOR REINSTALL IN
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IOVATIO MENT AILTON SOUTH ADDITIONS & F FISHERS E SC

SCOPE DRAWINGS:

REVISIONS:

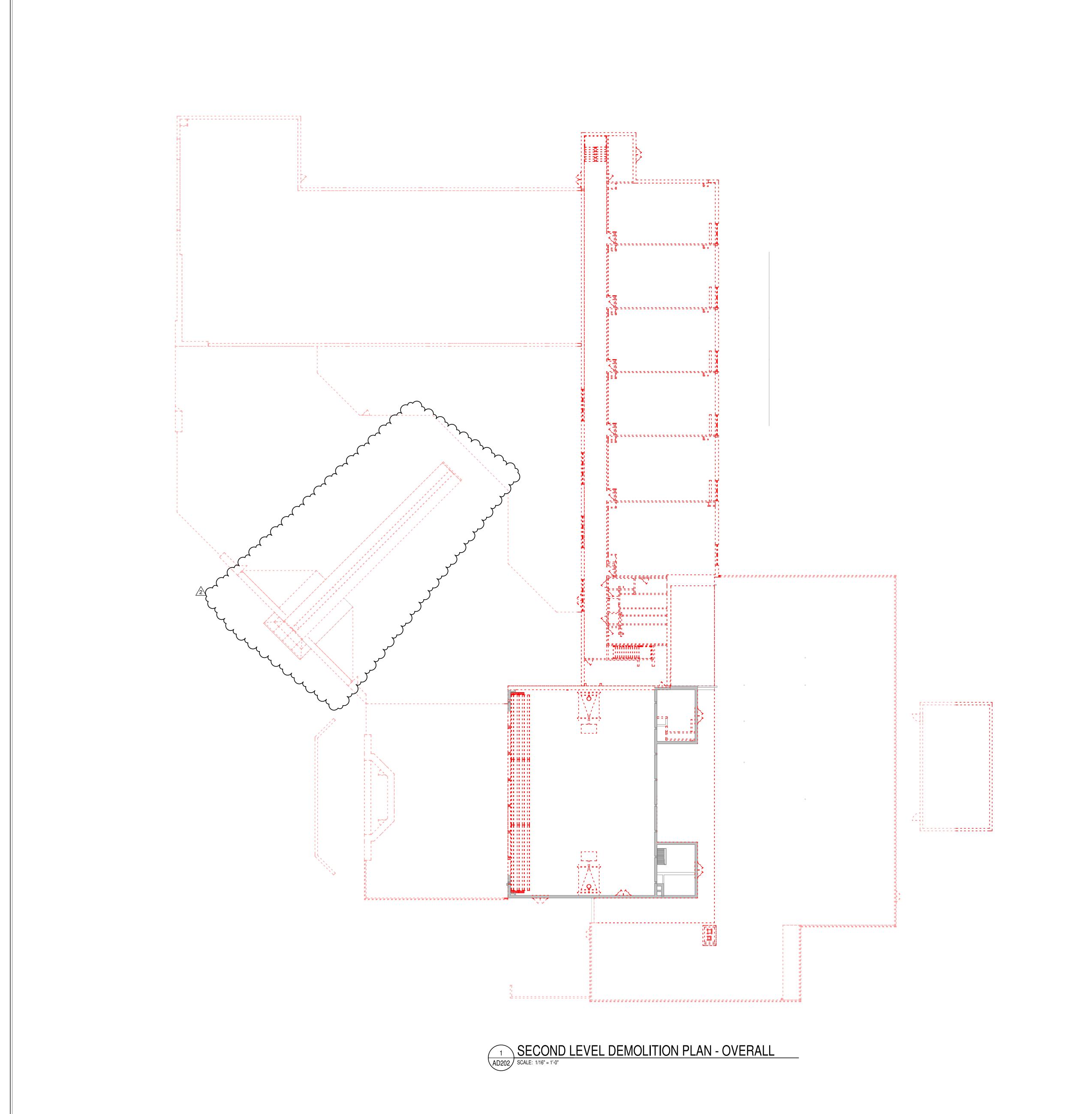
ADD #2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2024 JNC ECN

DRAWING TITLE: FIRST FLOOR DEMOLITION PLAN - UNIT E

AD201E PROJECT NUMBER

2021119



- A. HEAVY DASHED LINES INDICATE STRUCTURE, WALLS AND ITEMS TO BE DEMOLISHED UNLESS NOTED OTHERWISE.
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- DAMAGE OCCURS, PATCH AND REPAIR OR OTHERWISE RESTORE TO ITS ORIGINAL CONDITION OR REPLACE. D. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION AND

C. PROTECT ALL FINISHES, EQUIPMENT & OTHER ITEMS TO REMAIN. WHERE

- RELATED CONDITIONS PRIOR TO STARTUP OF DEMOLITION OR NEW CONSTRUCTION. E. COORDINATE EXTENTS AND EXACT DIMENSIONS WITH EXTENTS AND
- EXACT DIMENSIONS OF NEW WORK. F. ANY AND ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE
- ATTENTION OF THE ARCHITECT AND OWNER. G. REMOVE ALL MISCELLANEOUS EQUIPMENT ATTACHED TO WALLS, FLOORS AND CEILINGS TO BE DEMOLISHED. COORDINATE WITH THE OWNER FOR ITEMS TO BE SALVAGED OR RE-INSTALLED.

J. REMOVE ALL MASTIC, ADHESIVES, FASTENERS AND OTHER MATERIALS

- H. REMOVE ANY ITEMS NOT SPECIFICALLY IDENTIFIED TO BE REMOVED WHICH MUST OBVIOUSLY BE DEMOLISHED TO ACCOMMODATE NEW WORK. VERIFY WITH ARCHITECT. ALL OPENINGS, VOIDS, OR DAMAGED SURFACES LEFT BY THE REMOVAL OF
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- L. SEE SPECIFICATIONS FOR ASSIGNMENT OF RESPONSIBILITIES PERTAINING
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HAMILTON SOUTHEASTERN SCHOOI ADDITIONS & RENOVATIONS TO FISHERS ELEMENTARY SCHOOL 11442 LANTERN RD, FISHERS, IN 46038

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

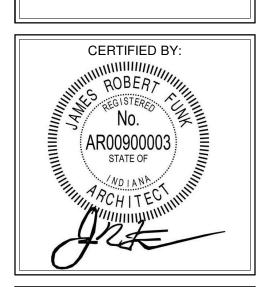
The drawings do not necessarily indicate or describe all work required for full performance and completion of the

**REVISIONS:** 

ADD #2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2024 JNC ECN

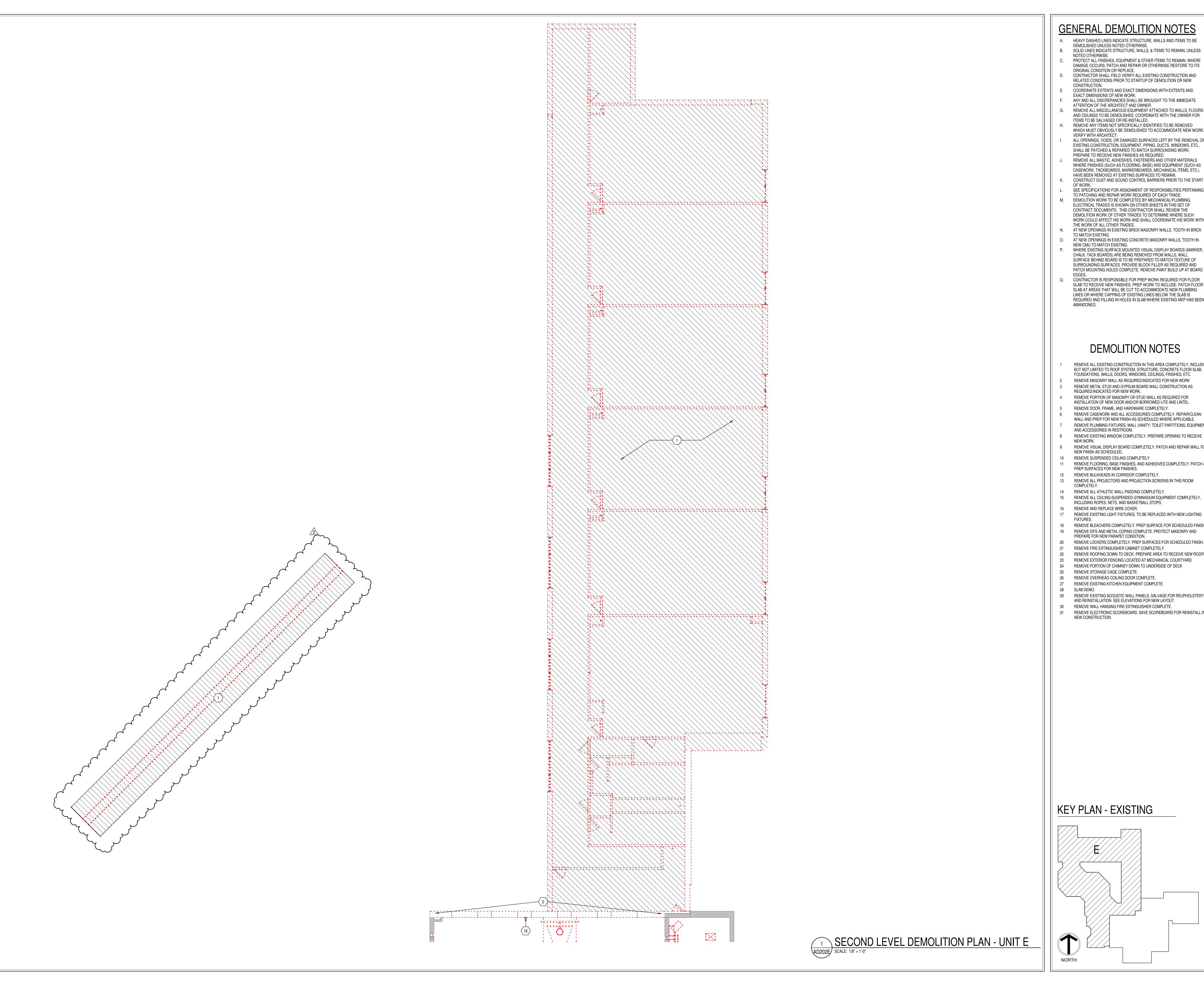
> DRAWING TITLE: OVERALL



PROJECT NUMBER

2021119

KEY PLAN - EXISTING



- A. HEAVY DASHED LINES INDICATE STRUCTURE, WALLS AND ITEMS TO BE DEMOLISHED UNLESS NOTED OTHERWISE. B. SOLID LINES INDICATE STRUCTURE, WALLS, & ITEMS TO REMAIN, UNLESS
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- G. REMOVE ALL MISCELLANEOUS EQUIPMENT ATTACHED TO WALLS, FLOORS AND CEILINGS TO BE DEMOLISHED. COORDINATE WITH THE OWNER FOR ITEMS TO BE SALVAGED OR RE-INSTALLED.
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Hamilton
Southeastern
Schools

HAMILTON SOUTHEASTERN SCHC ADDITIONS & RENOVATIONS TO FISHERS ELEMENTARY SCHOOL 11442 LANTERN RD, FISHERS, IN 46038

SCOPE DRAWINGS:

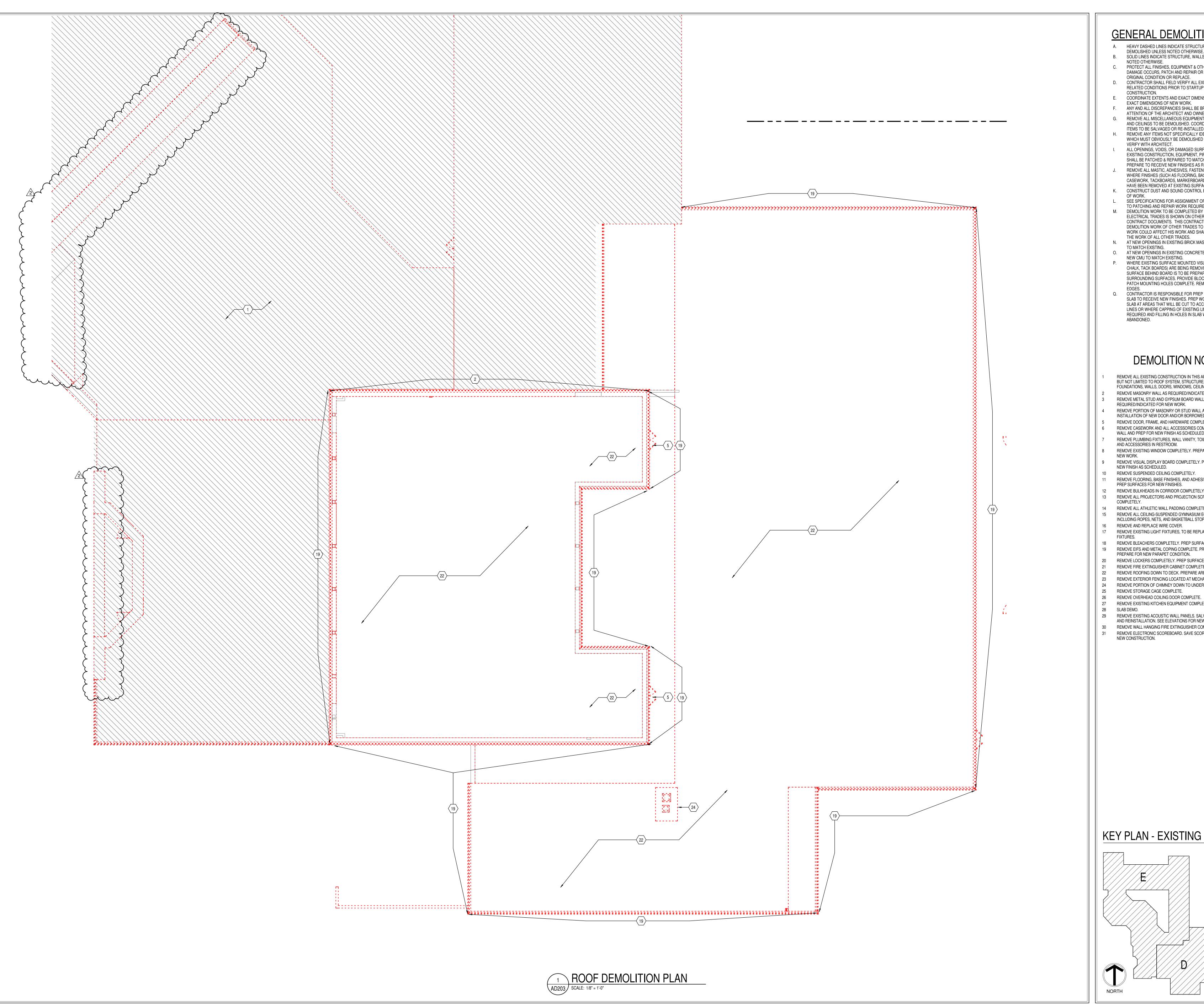
REVISIONS:

ADD #2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2024 JNC ECN

DRAWING TITLE: PLAN - UNIT E

AD202E



- A. HEAVY DASHED LINES INDICATE STRUCTURE, WALLS AND ITEMS TO BE
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PATCH MOUNTING HOLES COMPLETE. REMOVE PAINT BUILD UP AT BOARD

- TO MATCH EXISTING. AT NEW OPENINGS IN EXISTING CONCRETE MASONRY WALLS, TOOTH IN
- NEW CMU TO MATCH EXISTING. WHERE EXISTING SURFACE MOUNTED VISUAL DISPLAY BOARDS (MARKER, CHALK, TACK BOARDS) ARE BEING REMOVED FROM WALLS, WALL SURFACE BEHIND BOARD IS TO BE PREPARED TO MATCH TEXTURE OF SURROUNDING SURFACES. PROVIDE BLOCK FILLER AS REQUIRED AND
- Q. CONTRACTOR IS RESPONSIBLE FOR PREP WORK REQUIRED FOR FLOOR SLAB TO RECEIVE NEW FINISHES. PREP WORK TO INCLUDE: PATCH FLOOR SLAB AT AREAS THAT WILL BE CUT TO ACCOMMODATE NEW PLUMBING LINES OR WHERE CAPPING OF EXISTING LINES BELOW THE SLAB IS REQUIRED AND FILLING IN HOLES IN SLAB WHERE EXISTING MEP HAS BEEN ABANDONED.

#### **DEMOLITION NOTES**

- REMOVE ALL EXISTING CONSTRUCTION IN THIS AREA COMPLETELY, INCLUDING BUT NOT LIMITED TO ROOF SYSTEM, STRUCTURE, CONCRETE FLOOR SLAB, FOUNDATIONS, WALLS, DOORS, WINDOWS, CEILINGS, FINSIHES, ETC.
- REMOVE MASONRY WALL AS REQUIRED/INDICATED FOR NEW WORK REMOVE METAL STUD AND GYPSUM BOARD WALL CONSTRUCTION AS
- REQUIRED/INDICATED FOR NEW WORK. REMOVE PORTION OF MASONRY OR STUD WALL AS REQUIRED FOR
- INSTALLATION OF NEW DOOR AND/OR BORROWED LITE AND LINTEL. REMOVE DOOR, FRAME, AND HARDWARE COMPLETELY.
- REMOVE CASEWORK AND ALL ACCESSORIES COMPLETELY. REPAIR/CLEAN WALL AND PREP FOR NEW FINISH AS SCHEDULED WHERE APPLICABLE.
- REMOVE PLUMBING FIXTURES, WALL VANITY, TOILET PARTITIONS, EQUIPMENT, AND ACCESSORIES IN RESTROOM. REMOVE EXISTING WINDOW COMPLETELY. PREPARE OPENING TO RECEIVE
- REMOVE VISUAL DISPLAY BOARD COMPLETELY. PATCH AND REPAIR WALL FOR
- NEW FINISH AS SCHEDULED. REMOVE SUSPENDED CEILING COMPLETELY.
- REMOVE FLOORING, BASE FINISHES, AND ADHESIVES COMPLETELY. PATCH AND PREP SURFACES FOR NEW FINISHES. REMOVE BULKHEADS IN CORRIDOR COMPLETELY.
- REMOVE ALL PROJECTORS AND PROJECTION SCREENS IN THIS ROOM
- 14 REMOVE ALL ATHLETIC WALL PADDING COMPLETELY. REMOVE ALL CEILING-SUSPENDED GYMNASIUM EQUIPMENT COMPLETELY, INCLUDING ROPES, NETS, AND BASKETBALL STOPS.
- REMOVE AND REPLACE WIRE COVER. REMOVE EXISTING LIGHT FIXTURES, TO BE REPLACED WITH NEW LIGHTING
- 18 REMOVE BLEACHERS COMPLETELY. PREP SURFACE FOR SCHEDULED FINISH. REMOVE EIFS AND METAL COPING COMPLETE. PROTECT MASONRY AND
- PREPARE FOR NEW PARAPET CONDITION. REMOVE LOCKERS COMPLETELY. PREP SURFACES FOR SCHEDULED FINISH.
- REMOVE FIRE EXTINGUISHER CABINET COMPLETELY. REMOVE ROOFING DOWN TO DECK. PREPARE AREA TO RECEIVE NEW ROOFING.
- REMOVE EXTERIOR FENCING LOCATED AT MECHANICAL COURTYARD
- REMOVE PORTION OF CHIMNEY DOWN TO UNDERSIDE OF DECK
- 25 REMOVE STORAGE CAGE COMPLETE. 26 REMOVE OVERHEAD COILING DOOR COMPLETE.
- 27 REMOVE EXISTING KITCHEN EQUIPMENT COMPLETE.
- 28 SLAB DEMO.
  - REMOVE EXISTING ACOUSTIC WALL PANELS. SALVAGE FOR REUPHOLSTERY AND REINSTALLATION. SEE ELEVATIONS FOR NEW LAYOUT.
  - REMOVE WALL HANGING FIRE EXTINGUISHER COMPLETE.
  - REMOVE ELECTRONIC SCOREBOARD. SAVE SCOREBOARD FOR REINSTALL IN NEW CONSTRUCTION.

Southeastern Schools

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SCOPE DRAWINGS: equirements of the Contract.
On the basis of the general scope indicated or descri the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

ADD #2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2024 JNC ECN

DRAWING TITLE:

CERTIFIED BY:

DRAWING NUMBER

#### **ADDENDUM**



ADDENDUM NO: 02

BID PACKAGE NO: N/A

PROJECT: 2024 – Fishers Elementary School Addition and Renovations

PROJECT NO: 2021119 DATE: 02/02/2024 BY: Josh Cannaday

This Addendum is issued in accordance with the provisions of "The General Conditions of the Contract for Construction," Article 1, "Contract Documents" and becomes a part of the Contract Documents as provided therein. This Addendum includes:

#### **ATTACHMENTS**

#### Specifications:

28 31 11 - Digital Addressable Fire Alarm System

#### Drawings:

- FP201B FIRST FLOOR PLAN FIRE PROTECTION
- FP201C FIRST FLOOR PLAN FIRE PROTECTION
- FP202A SECOND FLOOR PLAN- FIRE PROTECTION
- FP202B SECOND FLOOR PLAN- FIRE PROTECTION
- FP202C SECOND FLOOR PLAN- FIRE PROTECTION
- FP301 DETAILS AND SCHEDULES FIRE PROTECTION
- P201A FIRST FLOOR PLAN PLUMBING UNIT A
- P201D FIRST FLOOR PLAN PLUMBING UNIT D
- P202A SECOND FLOOR PLAN PLUMBING UNIT A
- P202D SECOND FLOOR PLAN PLUMBING UNIT D
- M201D FIRST FLOOR PLAN AIR DISTRIBUTION UNIT D
- M202D SECOND FLOOR PLAN AIR DISTRIBUTION UNIT D
- M211D FIRST FLOOR PLAN HYDRONICS UNIT D
- ED100 SITE PLAN ELECTRICAL DEMOLITION
- ED201D FIRST FLOOR PLAN ELECTRICAL DEMOLITION UNIT D
- ED201E FIRST FLOOR PLAN ELECTRICAL DEMOLITION UNIT E
- ED202 OVERALL SECOND FLOOR PLAN ELECTRICAL DEMOLITION
- ED220 ROOF PLAN ELECTRICAL DEMOLITION
- E100 SITE PLAN ELECTRICAL
- E201A FIRST FLOOR PLAN LIGHTING UNIT A
- E201B FIRST FLOOR PLAN LIGHTING UNIT B
- E201D FIRST FLOOR PLAN LIGHTING UNIT D
- E202A SECOND FLOOR PLAN LIGHTING UNIT A
- E202B SECOND FLOOR PLAN LIGHTING UNIT B
- E202C SECOND FLOOR PLAN LIGHTING UNIT C
- E202D SECOND FLOOR PLAN LIGHTING UNIT D
- E211A FIRST FLOOR PLAN POWER UNIT A



- E211B FIRST FLOOR PLAN POWER UNIT B
- E211C FIRST FLOOR PLAN POWER UNIT C
- E211D FIRST FLOOR PLAN POWER UNIT D
- E212A SECOND FLOOR PLAN POWER UNIT A
- E212C SECOND FLOOR PLAN POWER UNIT C
- E212D SECOND FLOOR PLAN POWER UNIT D
- E220 ROOF PLAN ELECTRICAL
- E231A FIRST FLOOR PLAN FIRE ALARM UNIT A
- E232B SECOND FLOOR PLAN FIRE ALARM UNIT B
- E232D SECOND FLOOR PLAN FIRE ALARM UNIT D
- E301 MECH AND ELEC UNIT D ELECTRICAL
- E302 MECHANICAL PENTHOUSE ELECTRICAL
- E401 DETAILS GROUNDING
- E404 DETAILS LIGHTING CONTROL
- E501 RISER DIAGRAM ELECTRICAL
- E601 SCHEDULES ELECTRICAL
- E611 SCHEDULES PANELBOARDS MAIN, MEZZANINE, & EMERGENCY
- E612 SCHEDULES PANELBOARDS STANDBY, TELECOM, KITCHEN
- E613 SCHEDULES PANELBOARDS FIRST FLOOR
- E614 SCHEDULES PANELBOARDS SECOND FLOOR
- T200 OVERALL FIRST FLOOR PLAN TELECOM
- T201B FIRST FLOOR PLAN TELECOM. UNIT B
- T201C FIRST FLOOR PLAN TELECOM. UNIT C
- T201D FIRST FLOOR PLAN TELECOM. UNIT D
- T202 OVERALL SECOND FLOOR PLAN TELECOM
- T202A SECOND FLOOR PLAN TELECOM. UNIT A
- T202B SECOND FLOOR PLAN TELECOM. UNIT B
- T202C SECOND FLOOR PLAN TELECOM. UNIT C
- T202D SECOND FLOOR PLAN TELECOM. UNIT D

#### **PART 1 - GENERAL INFORMATION**

1.1 NOT USED

#### **PART 2 - BIDDING REQUIREMENTS**

2.1 NOT USED

#### **PART 3 - SPECIFICATIONS**

3.1 23 09 00 – Instrumentation and Control for HVAC

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- Add Trane Local Branch Office as an approved Building Level Controls contractor.
- 3.2 26 09 23 Lighting Control Devices
  - A. Under Item 2.1 Indoor Occupancy Sensors, add Intelligent Lighting Controls and Sensor Worx as an approved equal manufacturer.
  - B. Under Items 2.2 Stand Alone Low Voltage Switches and 2.3 Networked Low Voltage Switches, add Intelligent Lighting Controls and Sensor Worx as an approved equal manufacturer.
- 3.3 <u>26 27 26 Wiring Devices</u>
  - A. Delete Item 2.8 Dimmer Switches in its entirety without substitution. There should be no line voltage dimmers on this project. They should all be low voltage type. Reference spec section 26 09 23 Lighting Control Devices.
- 3.4 <u>26 33 53 Static Interruptible Power Supply</u>
  - A. Item 1.8, A. The UPS shall be Vertiv Liebert eXM series, Model 47SA040EAC with Model 47BPEMX52L1 external battery string, and Model 47MBE32CC0R1 maintenance bypass cabinet.
- 3.5 <u>28 31 11 Digital Addressable Fire Alarm System</u>
  - A. Add this new section, issued in this addendum.

#### **PART 4 - DRAWINGS**

- 4.1 <u>Drawing No. M201D FIRST FLOOR PLAN AIR DISTRIBUTION UNIT D</u>
  - A. Reissue this sheet in its entirety.
- 4.2 <u>Drawing No. M202D SECOND FLOOR PLAN AIR DISTRIBUTION UNIT D</u>
  - A. Reissue this sheet in its entirety.
- 4.3 <u>Drawing No. M211D FIRST FLOOR PLAN HYDRONICS UNIT D</u>
  - A. Reissue this sheet in its entirety.
- 4.4 <u>Drawing No. M708 CONTROLS MISCELLANEOUS</u>
  - A. Add Miscellaneous Controls Points list this drawing. List shall include all points and hardware to allow BAS monitoring of the following:
    - 1. Domestic Water Heater Deactivation Switch Status
    - 2. Heating Water Boiler Deactivation Switch Status

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4.5	<u>Draw</u>	<u>ring No. T200 – OVERALL FIRST FLOOR PLAN – TELECOM.</u>
	A.	Update Plan Note #2.
	B.	Revise drawing per Drawing No. T200 attached.
4.6	Draw	ring No. T201B – FIRST FLOOR PLAN – TELECOM. – UNIT B
<del>-</del> .0	Diaw	ING NO. 12016 TINSTITEOOKTEAN TELECOM. ONLY B
	A.	Add Mounting Height to Projector in Activity Commons B120.
	B.	Revise drawing per Drawing No. T201B attached.
4.7	<u>Draw</u>	ring No. T201C – FIRST FLOOR PLAN – TELECOM. – UNIT C
	A. B.	Add Mounting Height to Projector in Activity Commons C120.  Revise drawing per Drawing No. T201C attached.
	D.	Revise drawing per brawing No. 1201C attached.
4.8	<u>Draw</u>	<u>ring No. T201D – FIRST FLOOR PLAN – TELECOM. – UNIT D</u>
	A.	Add Mounting Height to (2) Intercom Horn Speakers in Receiving Area
	 В.	Revise drawing per Drawing No. T201D attached.
4.9	Draw	ring No. T202 – OVERALL SECOND FLOOR PLAN – TELECOM.
4.9	<u>Diaw</u>	illig No. 1202 - Overall Second Floor Flain - Telecoivi.
	A.	Update Plan Note #2.
	B.	Revise drawing per Drawing No. T202 attached.
4.10	<u>Draw</u>	ring No. T202A – SECOND FLOOR PLAN – TELECOM. – UNIT A
	A.	Add Mounting Height to Projector in Activity Commons A220.  Revise drawing per Drawing No. T202A attached.
	B.	Revise drawing per Drawing No. 1202A attached.
4.11	<u>Draw</u>	<u>ring No. T202B – SECOND FLOOR PLAN – TELECOM. – UNIT B</u>
	A.	Add Mounting Height to Projector in Activity Commons B220.
	 В.	Revise drawing per Drawing No. T202B attached.
4.12	Draw	ring No. T202C – SECOND FLOOR PLAN – TELECOM. – UNIT C
4.12	<u>Diaw</u>	IIII NO. 1202C - SECOND FLOOR PLAN - TELECOM UNIT C
	A.	Add Mounting Height to Projector in Activity Commons C220.
	B.	Revise drawing per Drawing No. T202C attached.
4.13	<u>Draw</u>	ring No. T202D – SECOND FLOOR PLAN – TELECOM. – UNIT D
	A.	Add Telecom Devices in LEARNING STUDIO D205. Revise drawing per Drawing No. T202D attached.
	В.	Revise drawing per Drawing No. 1202D attached.
4.14	Draw	<u>ring No. FP201B – FIRST FLOOR PLAN – FIRE PROTECTION</u>

Add Water Curtain as shown.

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Revise drawing per Drawing attached. 4.15 Drawing No. FP201C – FIRST FLOOR PLAN – FIRE PROTECTION A. Revise drawing per Drawing attached. 4.16 <u>Drawing No. FP202A – SECOND FLOOR PLAN – FIRE PROTECTION</u> Add Water Curtain as shown. Revise drawing per Drawing attached. 4.17 <u>Drawing No. FP202B – SECOND FLOOR PLAN – FIRE PROTECTION</u> Add Water Curtain as shown. Revise drawing per Drawing attached. 4.18 Drawing No. FP202C – SECOND FLOOR PLAN – FIRE PROTECTION Revise drawing per Drawing attached. 4.19 <u>Drawing No. FP301 – DETAILS AND SCHEDULES – FIRE PROTECTION</u> Revise drawing per Drawing attached. 4.20 Drawing No. P201A – FIRST FLOOR PLAN – PLUMBING – UNIT A Revise roof drain locations as shown. Revise drawing per Drawing attached. 4.21 <u>Drawing No. P201D – FIRST FLOOR PLAN – PLUMBING – UNIT D</u> Revise roof drain locations as shown. Revise drawing per Drawing attached. 4.22 <u>Drawing No. P202A – SECOND FLOOR PLAN – PLUMBING – UNIT A</u> Revise roof drain locations as shown. Revise drawing per Drawing attached. 4.23 Drawing No. P202D – SECOND FLOOR PLAN – PLUMBING – UNIT D

> Revise roof drain locations as shown. Revise drawing per Drawing attached.

4.24 <u>Drawing No. ED100 - SITE PLAN - ELECTRICAL DEMOLITION</u>

Reissue this sheet in its entirety.

Addendum



4.25 <u>Drawing No. ED201D - FIRST FLOOR PLAN - ELECTRICAL DEMOLITION - UNIT D</u> Reissue this sheet in its entirety. 4.26 Drawing No. ED201E - FIRST FLOOR PLAN - ELECTRICAL DEMOLITION - UNIT E Reissue this sheet in its entirety. 4.27 Drawing No. ED202 - OVERALL SECOND FLOOR PLAN - ELECTRICAL DEMOLITION A. Reissue this sheet in its entirety. 4.28 Drawing No. ED220 - ROOF PLAN - ELECTRICAL DEMOLITION A. Reissue this sheet in its entirety. 4.29 Drawing No. E100 - SITE PLAN - ELECTRICAL A. Reissue this sheet in its entirety. 4.30 Drawing No. E201A - FIRST FLOOR PLAN - LIGHTING - UNIT A A. Reissue this sheet in its entirety. 4.31 Drawing No. E201B - FIRST FLOOR PLAN - LIGHTING - UNIT B Reissue this sheet in its entirety. 4.32 Drawing No. E201D - FIRST FLOOR PLAN - LIGHTING - UNIT D A. Reissue this sheet in its entirety. 4.33 Drawing No. E202A - SECOND FLOOR PLAN - LIGHTING - UNIT A A. Reissue this sheet in its entirety. 4.34 <u>Drawing No. E202B - SECOND FLOOR PLAN - LIGHTING - UNIT B</u> A. Reissue this sheet in its entirety. 4.35 <u>Drawing No. E202C - SECOND FLOOR PLAN - LIGHTING - UNIT C</u> A. Reissue this sheet in its entirety. 4.36 <u>Drawing No. E202D - SECOND FLOOR PLAN - LIGHTING - UNIT D</u>

A. Reissue this sheet in its entirety.

4.37 Drawing No. E211A - FIRST FLOOR PLAN - POWER - UNIT A

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- A. Reissue this sheet in its entirety.
- 4.38 Drawing No. E211B FIRST FLOOR PLAN POWER UNIT B
  - A. Reissue this sheet in its entirety.
- 4.39 Drawing No. E211C FIRST FLOOR PLAN POWER UNIT C
  - A. Reissue this sheet in its entirety.
- 4.40 <u>Drawing No. E211D FIRST FLOOR PLAN POWER UNIT D</u>
  - A. Reissue this sheet in its entirety.
- 4.41 Drawing No. E212A SECOND FLOOR PLAN POWER UNIT A
  - A. Reissue this sheet in its entirety.
- 4.42 <u>Drawing No. E212C SECOND FLOOR PLAN POWER UNIT C</u>
  - A. Reissue this sheet in its entirety.
- 4.43 Drawing No. E212D SECOND FLOOR PLAN POWER UNIT D
  - A. Reissue this sheet in its entirety.
- 4.44 Drawing No. E220 ROOF PLAN ELECTRICAL
  - A. Reissue this sheet in its entirety.
- 4.45 Drawing No. E231A FIRST FLOOR PLAN FIRE ALARM UNIT A
  - A. Reissue this sheet in its entirety.
- 4.46 Drawing No. E232B SECOND FLOOR PLAN FIRE ALARM UNIT B
  - A. Reissue this sheet in its entirety.
- 4.47 <u>Drawing No. E232D SECOND FLOOR PLAN FIRE ALARM UNIT D</u>
  - A. Reissue this sheet in its entirety.
- 4.48 <u>Drawing No. E301 MECH AND ELEC UNIT D ELECTRICAL</u>
  - A. Reissue this sheet in its entirety.
- 4.49 <u>Drawing No. E302 MECHANICAL PENTHOUSE ELECTRICAL</u>
  - A. Reissue this sheet in its entirety.

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4.50 Drawing N	No. E401 -	DETAILS -	<b>GROUNDING</b>
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- A. Reissue this sheet in its entirety.
- 4.51 Drawing No. E404 DETAILS LIGHTING CONTROL
  - A. Reissue this sheet in its entirety.
- 4.52 <u>Drawing No. E501 RISER DIAGRAM ELECTRICAL</u>
  - A. Reissue this sheet in its entirety.
- 4.53 <u>Drawing No. E601 SCHEDULES ELECTRICAL</u>
  - A. Reissue this sheet in its entirety.
- 4.54 <u>Drawing No. E611 SCHEDULES PANELBOARDS MAIN, MEZZANINE, & EMERGENCY</u>
  - A. Reissue this sheet in its entirety.
- 4.55 Drawing No. E612 SCHEDULES PANELBOARDS STANDBY, TELECOM, KITCHEN
  - A. Reissue this sheet in its entirety.
- 4.56 <u>Drawing No. E613 SCHEDULES PANELBOARDS FIRST FLOOR</u>
  - A. Reissue this sheet in its entirety.
- 4.57 Drawing No. E614 SCHEDULES PANELBOARDS SECOND FLOOR
  - A. Reissue this sheet in its entirety.

#### **PART 5 - QUESTIONS AND AWSNERS**

5.1 NOT USED

**END ADDENDUM** 

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#### SECTION 28 31 11 - DIGITAL, ADDRESSABLE FIRE ALARM SYSTEM

#### PART 1 - GENERAL

#### 1.1 SUMMARY

#### A. Section Includes:

- 1. Fire-alarm control unit.
- 2. Manual fire-alarm boxes.
- 3. System smoke detectors.
- 4. Non-system smoke detectors.
- 5. Heat detectors.
- 6. Notification appliances.
- 7. Magnetic door holders.
- 8. Remote annunciator.
- 9. Addressable interface device.
- 10. Digital alarm communicator transmitter.
- 11. Fire alarm wire and cable.
- 12. Identification products.

#### 1.2 SYSTEM DESCRIPTION

A. Noncoded, addressable system, with multiplexed signal transmission, dedicated to fire-alarm service only.

#### 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Submit simultaneously with Shop Drawings.
- B. Shop Drawings: For fire-alarm system. Include plans, elevations, sections, details, and attachments to other work.
  - 1. Comply with recommendations in the "Documentation" Section of the "Fundamentals of Fire Alarm Systems" Chapter in NFPA 72.
  - 2. Include voltage drop calculations for notification appliance circuits.
  - 3. Include battery-size calculations.
  - 4. Include performance parameters and installation details for each detector, verifying that each detector is listed for complete range of air velocity, temperature, and humidity possible when air-handling system is operating.
  - 5. Include plans, sections, and elevations of heating, ventilating, and air-conditioning ducts, drawn to scale and coordinating installation of duct smoke detectors and access to them. Show critical dimensions that relate to placement and support of sampling tubes, detector housing, and remote status and alarm indicators. Locate detectors according to manufacturer's written recommendations.
  - 6. Include floor plans to indicate final outlet locations showing address of each addressable device. Show size and route of cable and conduits.

- C. General Submittal Requirements:
  - 1. Shop Drawings shall be prepared by persons with the following qualifications:
    - a. Trained and certified by manufacturer in fire-alarm system design.
    - b. NICET-certified fire-alarm technician, Level III minimum.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified Installer.
- B. Field quality-control reports.

#### 1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For fire-alarm systems and components to include in emergency, operation, and maintenance manuals. In addition to items specified in Section 017823 "Operation and Maintenance Data," include the following:
  - 1. Comply with the "Records" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.
  - 2. Provide "Record of Completion Documents" according to NFPA 72 article "Permanent Records" in the "Records" Section of the "Inspection, Testing and Maintenance" Chapter.
  - 3. Record copy of site-specific software.
  - 4. Provide "Maintenance, Inspection and Testing Records" according to NFPA 72 article of the same name and include the following:
    - a. Frequency of testing of installed components.
    - b. Frequency of inspection of installed components.
    - c. Requirements and recommendations related to results of maintenance.
    - d. Manufacturer's user training manuals.
  - 5. Manufacturer's required maintenance related to system warranty requirements.
  - 6. Abbreviated operating instructions for mounting at fire-alarm control unit.
  - 7. Printout of software application and graphic screens.

#### 1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Personnel shall be trained and certified by manufacturer for installation of units required for this Project.
- B. Installer Qualifications: Installation shall be by personnel certified by NICET as fire-alarm Level II technician.
- C. Source Limitations for Fire-Alarm System and Components: Obtain fire-alarm system from single source from single manufacturer.
  - 1. Components shall be compatible with, and operate as, an extension of existing system.

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D. 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.

DIGITAL. ADDRESSABLE FIRE ALARM SYSTEM

#### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. SimplexGrinnell LP; a Tyco International company. No equal.

#### 2.2 SYSTEMS OPERATIONAL DESCRIPTION

- A. Fire-alarm signal initiation shall be by one or more of the following devices and systems:
  - 1. Manual stations.
  - 2. Heat detectors.
  - Smoke detectors.
  - 4. Duct smoke detectors.
  - 5. Automatic sprinkler system water flow.
  - 6. Heat detectors in elevator shaft and pit.
  - 7. Fire-extinguishing system operation.
  - 8. Fire standpipe system.
- B. Fire-alarm signal shall initiate the following actions:
  - 1. Continuously operate alarm-notification appliances.
  - 2. Identify alarm at the fire-alarm control unit and remote annunciators.
  - 3. Transmit an alarm signal to the remote alarm receiving station.
  - 4. Release fire and smoke doors held open by magnetic door holders.
  - 5. Switch heating, ventilating, and air-conditioning equipment controls to fire-alarm mode.
  - 6. Recall elevators to primary or alternate recall floors.
  - 7. Record events in the system memory.
- C. Supervisory signal initiation shall be by one or more of the following devices and actions:
  - 1. Valve supervisory switch.
- D. System trouble signal initiation shall be by one or more of the following devices and actions:
  - 1. Open circuits, shorts, and grounds in designated circuits.
  - 2. Opening, tampering with, or removing alarm-initiating and supervisory signal-initiating devices.
  - 3. Loss of primary power at fire-alarm control unit.
  - 4. Ground or a single break in fire-alarm control unit internal circuits.
  - 5. Abnormal ac voltage at fire-alarm control unit.
  - 6. Break in standby battery circuitry.
  - 7. Failure of battery charging.
  - 8. Abnormal position of any switch at fire-alarm control unit or annunciator.

E. System Trouble and Supervisory Signal Actions: Initiate notification appliance and annunciate at fire-alarm control unit and remote annunciators.

#### 2.3 FIRE-ALARM CONTROL UNIT

- A. General Requirements for Fire-Alarm Control Unit:
  - 1. Field-programmable, microprocessor-based, modular, power-limited design with electronic modules, complying with UL 864 and listed and labeled by an NRTL.
    - a. System software and programs shall be held in flash electrically erasable programmable read-only memory (EEPROM), retaining the information through failure of primary and secondary power supplies.
    - b. Include a real-time clock for time annotation of events on the event recorder and printer.
  - 2. Addressable control circuits for operation of mechanical equipment.
- B. Alphanumeric Display and System Controls: Arranged for interface between human operator at fire-alarm control unit and addressable system components including annunciation and supervision. Display alarm, supervisory, and component status messages and the programming and control menu.
  - 1. Annunciator and Display: Liquid-crystal type, 2 line(s) of 80 characters, minimum.
  - 2. Keypad: Arranged to permit entry and execution of programming, display, and control commands and to indicate control commands to be entered into the system for control of smoke-detector sensitivity and other parameters.

#### C. Circuits:

- 1. Initiating Device, Notification Appliance, and Signaling Line Circuits: NFPA 72, Class B.
  - a. Install no more than 50 addressable devices on each signaling line circuit.

#### D. Elevator Recall:

- 1. Smoke detectors at the following locations shall initiate automatic elevator recall. Alarminitiating devices, except those listed, shall not start elevator recall.
  - a. Elevator lobby detectors except the lobby detector on the designated floor.
  - b. Smoke detector in elevator machine room.
  - c. Smoke detectors in elevator hoistway.
- 2. Elevator lobby detectors located on the designated recall floors shall be programmed to move the cars to the alternate recall floor.
- 3. Water-flow alarm connected to sprinkler in an elevator shaft and elevator machine room shall shut down elevators associated with the location without time delay.
  - a. Water-flow switch associated with the sprinkler in the elevator pit may have a delay to allow elevators to move to the designated floor.

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- E. Door Controls: Door hold-open devices that are controlled by smoke detectors at doors in smoke barrier walls shall be connected to fire-alarm system.
- F. Transmission to Remote Alarm Receiving Station: Automatically transmit alarm, supervisory, and trouble signals to a remote alarm station.
- G. Primary Power: 24-V dc obtained from 120-V ac service and a power-supply module. Initiating devices, notification appliances, signaling lines, trouble signals, supervisory and digital alarm communicator transmitters shall be powered by 24-V dc source.
  - 1. Alarm current draw of entire fire-alarm system shall not exceed 80 percent of the powersupply module rating.
- Н. Secondary Power: 24-V dc supply system with batteries, automatic battery charger, and automatic transfer switch.
  - Batteries: Sealed, valve-regulated, recombinant lead acid. 1.
- I. Instructions: Computer printout or typewritten instruction card mounted behind a plastic or glass cover in a stainless-steel or aluminum frame. Include interpretation and describe appropriate response for displays and signals. Briefly describe the functional operation of the system under normal, alarm, and trouble conditions.

#### 2.4 MANUAL FIRE-ALARM BOXES

- Α. General Requirements for Manual Fire-Alarm Boxes: Comply with UL 38. Boxes shall be finished in red with molded, raised-letter operating instructions in contrasting color; shall show visible indication of operation; and shall be mounted on recessed outlet box. Provide surface mounted devices with manufacturer's surface back box.
  - 1. Double-action mechanism requiring two actions to initiate an alarm, pull-lever type; with integral addressable module arranged to communicate manual-station status (normal, alarm, or trouble) to fire-alarm control unit.
  - 2. Station Reset: Key- or wrench-operated switch.

#### 2.5 SYSTEM SMOKE DETECTORS

- A. General Requirements for System Smoke Detectors:
  - Comply with UL 268; operating at 24-V dc, nominal. 1.
  - Base Mounting: Detector and associated electronic components shall be mounted in a 2. twist-lock module that connects to a fixed base. Provide terminals in the fixed base for connection to building wiring.
  - Self-Restoring: Detectors do not require resetting or readjustment after actuation to restore 3. them to normal operation.
  - 4. Integral Visual-Indicating Light: LED type indicating detector has operated and power-on status.

#### B. Photoelectric Smoke Detectors:

- 1. Detector address shall be accessible from fire-alarm control unit and shall be able to identify the detector's location within the system and its sensitivity setting.
- 2. An operator at fire-alarm control unit, having the designated access level, shall be able to manually access the following for each detector:
  - Primary status. a.
  - Device type. b.
  - Present average value. C.
  - Present sensitivity selected. d.
  - Sensor range (normal, dirty, etc.). e.
- C. Duct Smoke Detectors: Photoelectric type complying with UL 268A.
  - 1. Detector address shall be accessible from fire-alarm control unit and shall be able to identify the detector's location within the system and its sensitivity setting.
  - 2. An operator at fire-alarm control unit, having the designated access level, shall be able to manually access the following for each detector:
    - Primary status. a.
    - b. Device type.
    - Present average value. c.
    - Present sensitivity selected. d.
    - e. Sensor range (normal, dirty, etc.).
  - 3. Each sensor shall have multiple levels of detection sensitivity.
  - 4. Sampling Tubes: Design and dimensions as recommended by manufacturer for specific duct size, air velocity, and installation conditions where applied.

#### 2.6 NON-SYSTEM SMOKE DETECTORS

#### A. Single-Station Smoke Detectors:

- Comply with UL 217; suitable for NFPA 101, residential occupancies; operating at 120-V 1. ac with 9-V dc battery as the secondary power source. Provide with "low" or "missing" battery chirping-sound device.
- 2. Audible Notification Appliance: Piezoelectric sounder rated at 90 dBA at 10 feet according to UL 464.
- 3. Visible Notification Appliance: 177-cd strobe.
- 4. Heat sensor, 135 deg F combination rate-of-rise and fixed temperature.
- Test Switch: Push to test: simulates smoke at rated obscuration. 5.
- Tandem Connection: Allow tandem connection of number of indicated detectors; alarm on 6. one detector shall actuate notification on all connected detectors.
- 7. Plug-in Arrangement: Detector and associated electronic components shall be mounted in a plug-in module that connects to a fixed base. Provide terminals in the fixed base for connection to building wiring.
- 8. Self-Restoring: Detectors shall not require resetting or readjustment after actuation to restore them to normal operation.
- 9. Integral Visual-Indicating Light: LED type indicating detector has operated and power-on status.

- B. Single-Station Duct Smoke Detectors:
  - 1. Comply with UL 268A; operating at 120-V ac.
  - 2. Sensor: LED or infrared light source with matching silicon-cell receiver.
  - Base Mounting: Detector and associated electronic components shall be mounted in a
    twist-lock module that connects to a fixed base. The fixed base shall be designed for
    mounting directly to air duct. Provide terminals in the fixed base for connection to building
    wiring.
  - 4. Sampling Tubes: Design and dimensions as recommended by manufacturer for specific duct size, air velocity, and installation conditions where applied.
  - 5. Relay Fan Shutdown: Rated to interrupt fan motor-control circuit.

#### 2.7 HEAT DETECTORS

- A. General Requirements for Heat Detectors: Comply with UL 521.
- B. Heat Detector, Combination Type: Actuated by either a fixed temperature of 135 deg F or a rate of rise that exceeds 15 deg F per minute unless otherwise indicated.
  - 1. Mounting: Twist-lock base interchangeable with smoke-detector bases.
  - 2. Integral Addressable Module: Arranged to communicate detector status (normal, alarm, or trouble) to fire-alarm control unit.
- C. Heat Detector, Fixed-Temperature Type: Actuated by temperature that exceeds a fixed temperature of 190 deg F.
  - 1. Mounting: Twist-lock base interchangeable with smoke-detector bases.
  - 2. Integral Addressable Module: Arranged to communicate detector status (normal, alarm, or trouble) to fire-alarm control unit.

#### 2.8 NOTIFICATION APPLIANCES

- A. General Requirements for Notification Appliances: Connected to notification appliance signal circuits, zoned as indicated and with screw terminals for system connections. Boxes shall be mounted on recessed outlet box. Provide surface mounted devices with manufacturer's surface back box.
  - Combination Devices: Factory-integrated audible and visible devices in a single-mounting assembly, equipped for mounting as indicated and with screw terminals for system connections.
- B. Chimes, High-Level Output: Vibrating type, 81-dBA minimum rated output.
- C. Horns: Electric-vibrating-polarized type, 24-V dc; with provision for housing the operating mechanism behind a grille. Comply with UL 464. Horns shall produce a sound-pressure level of 90 dBA, measured 10 feet from the horn, using the coded signal prescribed in UL 464 test protocol.

DIGITAL. ADDRESSABLE FIRE ALARM SYSTEM

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- D. Visible Notification Appliances: Xenon strobe lights comply with UL 1971, with clear or nominal white polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum 1-inch- high letters on the lens.
  - 1. Rated Light Output:
    - a. 15/30/75/110 cd, selectable in the field.
  - 2. Mounting: Wall mounted unless otherwise indicated.
  - 3. For units with guards to prevent physical damage, light output ratings shall be determined with guards in place.
  - 4. Flashing shall be in a temporal pattern, synchronized with other units.
  - 5. Strobe Leads: Factory connected to screw terminals.
  - 6. Mounting Faceplate: Factory finished, red.

#### 2.9 MAGNETIC DOOR HOLDERS

- A. Description: Units are equipped for wall or floor mounting as indicated and are complete with matching doorplate.
  - 1. Electromagnet: Requires no more than 3 W to develop 25-lbf holding force.
  - 2. Wall-Mounted Units: Flush mounted unless otherwise indicated.
  - 3. Rating: 24-V ac or dc.
- B. Material and Finish: Match door hardware.

#### 2.10 REMOTE ANNUNCIATOR

- A. Description: Annunciator functions shall match those of fire-alarm control unit for alarm, supervisory, and trouble indications. Manual switching functions shall match those of fire-alarm control unit, including acknowledging, silencing, resetting, and testing.
  - 1. Mounting: Flush cabinet, NEMA 250, Type 1.
- B. Display Type and Functional Performance: Alphanumeric display and LED indicating lights shall match those of fire-alarm control unit. Provide controls to acknowledge, silence, reset, and test functions for alarm, supervisory, and trouble signals. Verify requirements with local authority.

#### 2.11 ADDRESSABLE INTERFACE DEVICE

- A. Description: Microelectronic monitor module, NRTL listed for use in providing a system address for alarm-initiating devices for wired applications with normally open contacts.
- B. Integral Relay: Capable of providing a direct signal to elevator controller to initiate elevator recall and to circuit-breaker shunt trip for power shutdown.

#### D&A# 20057

#### 2.12 DIGITAL ALARM COMMUNICATOR TRANSMITTER

- A. Digital alarm communicator transmitter shall be acceptable to the remote central station and shall comply with UL 632 and be listed and labeled by an NRTL.
- B. Functional Performance: Unit shall receive an alarm, supervisory, or trouble signal from firealarm control unit and automatically capture two telephone line(s) and dial a preset number for a remote central station. When contact is made with central station(s), signals shall be transmitted. If service on either line is interrupted for longer than 45 seconds, transmitter shall initiate a local trouble signal and transmit the signal indicating loss of telephone line to the remote alarm receiving station over the remaining line. Transmitter shall automatically report telephone service restoration to the central station. If service is lost on both telephone lines, transmitter shall initiate the local trouble signal.
- C. Local functions and display at the digital alarm communicator transmitter shall include the following:
  - 1. Verification that both telephone lines are available.
  - 2. Programming device.
  - 3. LED display.
  - 4. Manual test report function and manual transmission clear indication.
  - 5. Communications failure with the central station or fire-alarm control unit.
- D. Digital data transmission shall include the following:
  - 1. Address of the alarm-initiating device.
  - 2. Zone of the supervisory signal.
  - 3. Zone of the trouble-initiating device.
  - 4. Loss of ac supply or loss of power.
  - 5. Low battery.
  - 6. Abnormal test signal.
  - 7. Communication bus failure.
- E. Secondary Power: Integral rechargeable battery and automatic charger.
- F. Self-Test: Conducted automatically every 24 hours with report transmitted to central station.

#### 2.13 FIRE ALARM WIRE AND CABLE

- General Wire and Cable Requirements: NRTL listed and labeled as complying with NFPA 70, Article 760.
- B. Surface-Burning Characteristics: As determined by testing identical products according to ASTM E 84 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
  - 1. Flame-Spread Index: 25 or less.
  - 2. Smoke-Developed Index: 50 or less.
- C. Signaling Line Circuits: Twisted, shielded pair, size as recommended by system manufacturer, but not less than No. 18 AWG.

#### DIGITAL, ADDRESSABLE FIRE ALARM SYSTEM

- D. Non-Power-Limited Circuits: Solid-copper conductors with 600-V rated, 75 deg C, color-coded insulation.
  - 1. Low-Voltage Circuits: No. 16 AWG, minimum.
  - 2. Line-Voltage Circuits: No. 12 AWG, minimum.

#### 2.14 IDENTIFICATION PRODUCTS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Brady Corporation
  - 2. HellermannTyton.
  - 3. Kroy LLC.
  - 4. Panduit Corp.
- B. Comply with UL 969 for a system of labeling materials, including label stocks, laminating adhesives, and inks used by label printers.
- C. Comply with requirements in Division 26 Section "Identification for Electrical Systems."

#### PART 3 - EXECUTION

#### 3.1 EQUIPMENT INSTALLATION

- A. Comply with NFPA 72 for installation of fire-alarm equipment.
- B. Install wall-mounted equipment, with tops of cabinets not more than 72 inches above the finished floor.
- C. Connecting to Existing Equipment: Verify that existing fire-alarm system is operational before making changes or connections.
  - 1. Connect new equipment to existing control panel in existing part of the building.
  - 2. Connect new equipment to existing monitoring equipment at the supervising station.
  - 3. Expand, modify, and supplement existing control and monitoring equipment as necessary to extend existing control and monitoring functions to the new points. New components shall be capable of merging with existing configuration without degrading the performance of either system.
- D. Smoke- or Heat-Detector Spacing:
  - 1. HVAC: Locate detectors not closer than 3 feet from air-supply diffuser or return-air opening.
  - 2. Lighting Fixtures: Locate detectors not closer than 12 inches from any part of a lighting fixture.
- E. Duct Smoke Detectors: Comply with NFPA 72 and NFPA 90A. Install sampling tubes so they extend the full width of duct.

D&A# 20057

F. Heat Detectors in Elevator Shafts: Coordinate temperature rating and location with sprinkler rating and location.

DIGITAL. ADDRESSABLE FIRE ALARM SYSTEM

- G. Single-Station Smoke Detectors: Where more than one smoke alarm is installed within a dwelling or suite, they shall be connected so that the operation of any smoke alarm causes the alarm in all smoke alarms to sound.
- H. Remote Status and Alarm Indicators: Install near each smoke detector and each sprinkler water-flow switch and valve-tamper switch that is not readily visible from normal viewing position.
- I. Audible Alarm-Indicating Devices: Install not less than 6 inches below the ceiling. Install bells and horns on flush-mounted back boxes with the device-operating mechanism concealed behind a grille.
- J. Visible Alarm-Indicating Devices: Install adjacent to each alarm bell or alarm horn and at least 6 inches below the ceiling.
- K. Device Location-Indicating Lights: Locate in public space near the device they monitor.
- L. Fire-Alarm Control Unit: Surface mounted, with tops of cabinets not more than 72 inches above the finished floor.
- M. Annunciator: Install with top of panel not more than 72 inches above the finished floor.

#### 3.2 CONNECTIONS

- A. For fire-protection systems related to doors in fire-rated walls and partitions and to doors in smoke partitions, comply with requirements in Section 087100 "Door Hardware." Connect hardware and devices to fire-alarm system.
  - 1. Verify that hardware and devices are NRTL listed for use with fire-alarm system in this Section before making connections.
- B. Make addressable connections with a supervised interface device to the following devices and systems. Install the interface device less than 3 feet from the device controlled. Make an addressable confirmation connection when such feedback is available at the device or system being controlled.
  - 1. Alarm-initiating connection to elevator recall system and components.
  - 2. Alarm-initiating connection to activate emergency lighting control.
  - 3. Supervisory connections at valve supervisory switches.

#### 3.3 FIRE ALARM WIRING INSTALLATION

- A. Comply with NECA 1 and NFPA 72.
- B. Wiring Method: Install cables in raceways except within consoles, cabinets, desks, and counters and except in accessible ceiling spaces where unenclosed wiring method may be used. Conceal raceway except in unfinished spaces.
  - 1. Install plenum cable in environmental air spaces, including plenum ceilings.

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  - 2. Comply with requirements for raceways and boxes specified in Section 260533 "Raceways and Boxes for Electrical Systems."
  - C. Wiring within Enclosures: Separate power-limited and non-power-limited conductors as recommended by manufacturer. Install conductors parallel with or at right angles to sides and back of the enclosure. Bundle, lace, and train conductors to terminal points with no excess. Connect conductors that are terminated, spliced, or interrupted in any enclosure associated with the fire alarm system to terminal blocks. Mark each terminal according to the system's wiring diagrams. Make all connections with approved crimp-on terminal spade lugs, pressure-type terminal blocks, or plug connectors.
  - D. Cable Taps: Use numbered terminal strips in junction, pull, and outlet boxes, cabinets, or equipment enclosures where circuit connections are made.
  - E. Color-Coding: Color-code fire alarm conductors differently from the normal building power wiring. Use one color-code for alarm circuit wiring and another for supervisory circuits. Color-code audible alarm-indicating circuits differently from alarm-initiating circuits. Use different colors for visible alarm-indicating devices. Paint fire alarm system junction boxes and covers red.
  - F. Wiring to Remote Alarm Transmitting Device: 1-inch conduit between the fire alarm control panel and the transmitter. Install number of conductors and electrical supervision for connecting wiring as needed to suit monitoring function.

#### 3.4 IDENTIFICATION

- A. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification specified in Section 260553 "Identification for Electrical Systems."
- B. Install framed instructions in a location visible from fire-alarm control unit.

#### 3.5 GROUNDING

A. Ground fire-alarm control unit and associated circuits; comply with IEEE 1100. Install a ground wire from main service ground to fire-alarm control unit.

#### 3.6 FIELD QUALITY CONTROL

- A. Field tests shall be witnessed by authorities having jurisdiction.
- B. Tests and Inspections:
  - 1. Visual Inspection: Conduct visual inspection prior to testing.
    - a. Inspection shall be based on completed Record Drawings and system documentation that is required by NFPA 72 in its "Completion Documents, Preparation" Table in the "Documentation" Section of the "Fundamentals of Fire Alarm Systems" Chapter.
    - b. Comply with "Visual Inspection Frequencies" Table in the "Inspection" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72; retain the "Initial/Reacceptance" column and list only the installed components.

2021119 SECTION 28 31 11
Hamilton Southeastern Schools DIGITAL, ADDRESSABLE FIRE ALARM SYSTEM

Hamilton Southeastern Schools Fishers Elementary School Addition and Renovation D&A# 20057

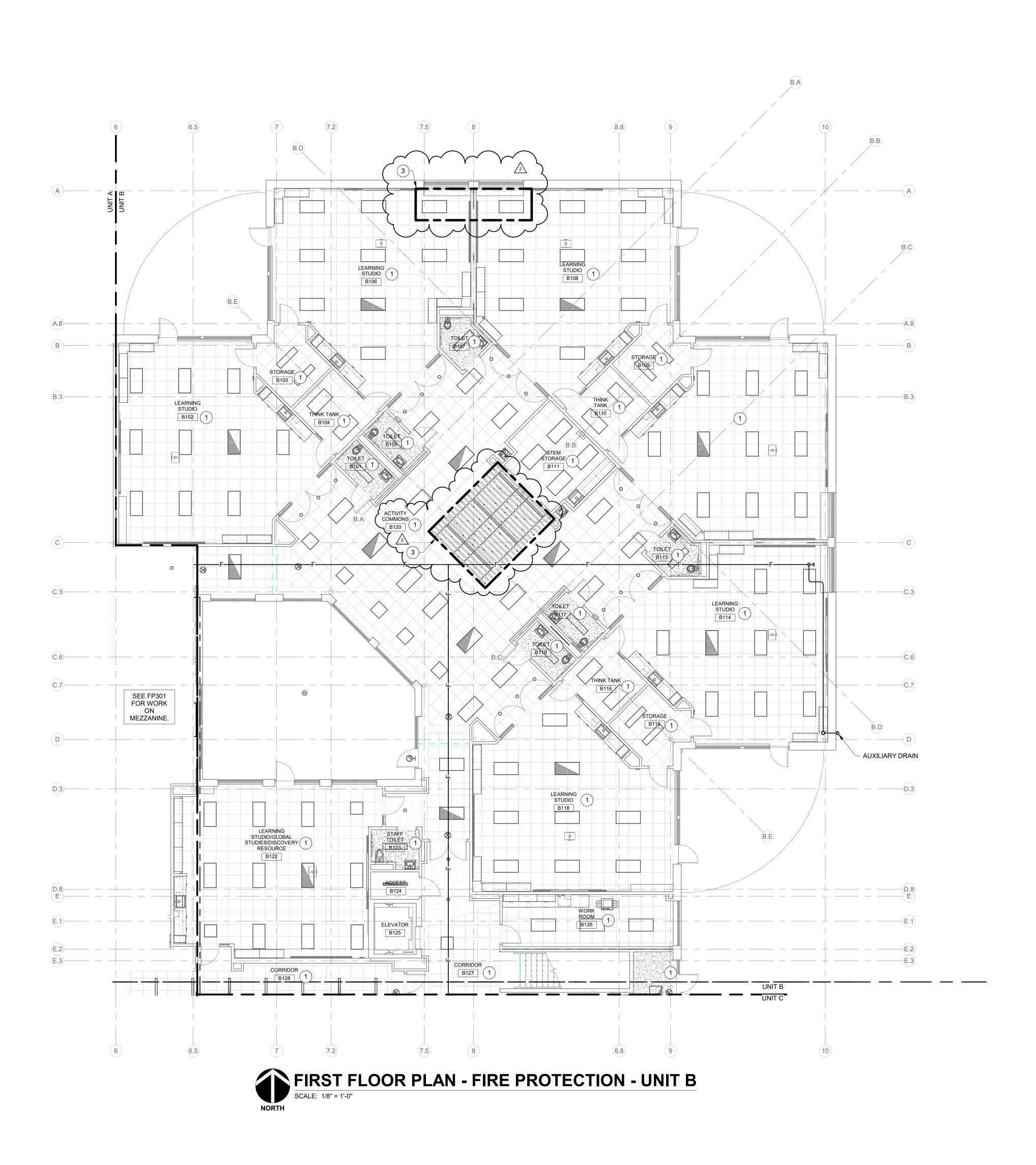
- 2. System Testing: Comply with "Test Methods" Table in the "Testing" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.
- 3. Factory-authorized service representative shall prepare the "Fire Alarm System Record of Completion" in the "Documentation" Section of the "Fundamentals of Fire Alarm Systems" Chapter in NFPA 72 and the "Inspection and Testing Form" in the "Records" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.
- C. Reacceptance Testing: Perform reacceptance testing to verify the proper operation of added or replaced devices and appliances.
- D. Fire-alarm system will be considered defective if it does not pass tests and inspections.
- E. Prepare test and inspection reports.
- F. Annual Test and Inspection: One year after date of Substantial Completion, test fire-alarm system complying with visual and testing inspection requirements in NFPA 72. Use forms developed for initial tests and inspections.

**END OF SECTION** 

2021119 Hamilton Southeastern Schools Fishers Elementary School Addition and Renovation D&A# 20057

SECTION 28 31 11 DIGITAL, ADDRESSABLE FIRE ALARM SYSTEM

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WORK TO BE INSTALLED

WORK TO REMAIN

**GENERAL NOTES:** 

1. REFER TO SHEET FP201 FOR GENERAL NOTES.

## **# PLAN NOTES:**

INSTALL CONCEALED TYPE SPRINKLER HEADS IN THIS AREA.
 INSTALL UPRIGHT SPRINKLER HEADS IN THIS AREA.
 INSTALL UPRIGHT SPRINKLER HEADS ABOVE SLAT CEILING IN AREA

4. INSTALL WATER CURTAIN IN THIS AREA.

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Southeastern
Schools



and Associates, Inc.
Insulting Engineers
North Capitol Avenue
anapolis, IN 46204
ne: (317) 634-4672

AMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
SCHOOL
11442 Lantern Rd, Fishers, IN 46038

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

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DRAWING TITLE:
FIRST FLOOR

FIRST FLOOR PLAN - FIRE PROTECTION

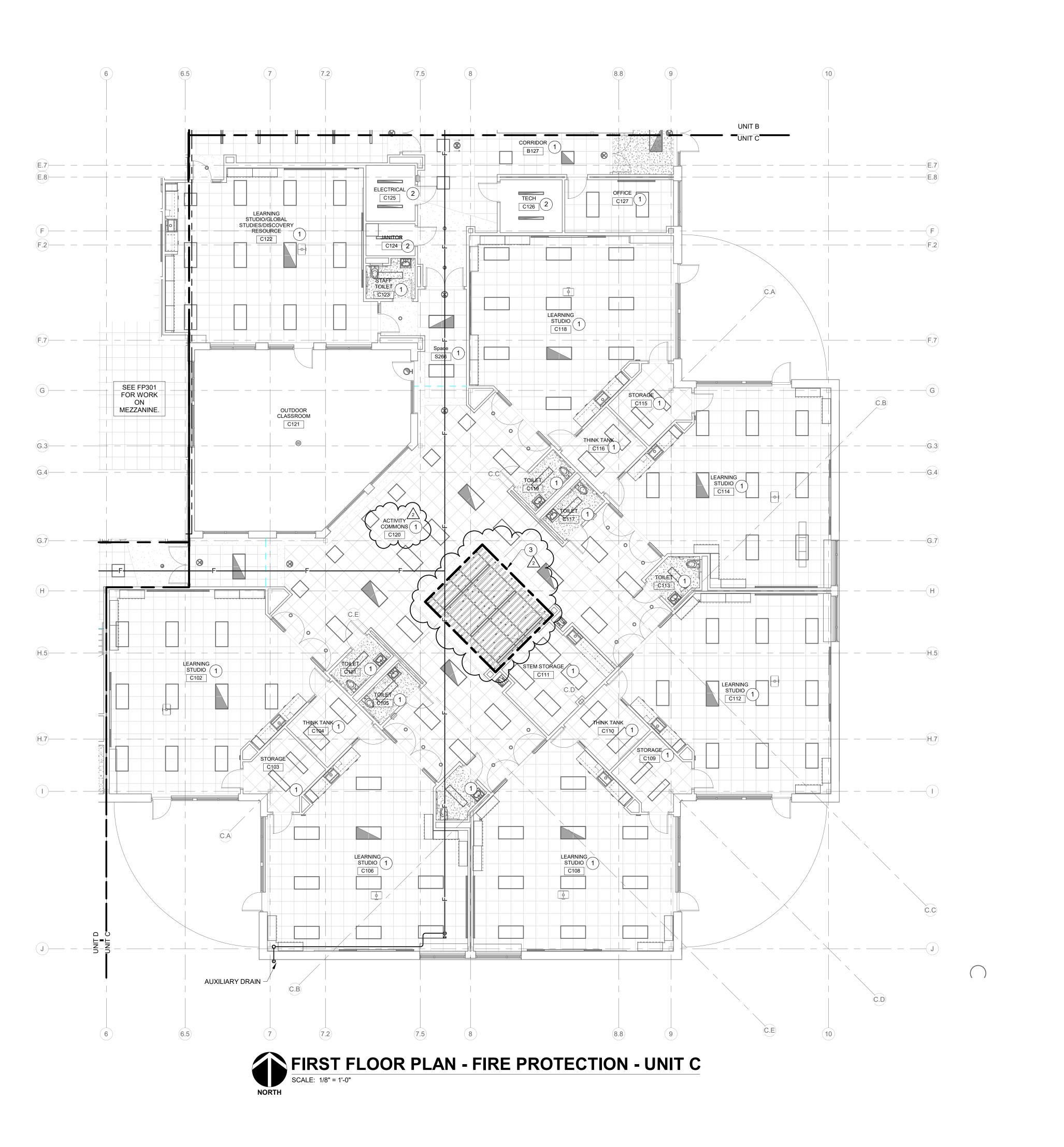


FP201B

PROJECT NUMBER
2021119

A B

KEY PLAN



## **RENOVATION LEGEND:**

WORK TO BE INSTALLED

WORK TO REMAIN

## **GENERAL NOTES:**

1. REFER TO SHEET FP201 FOR GENERAL NOTES.

## **# PLAN NOTES:**

1. INSTALL CONCEALED TYPE SPRINKLER HEADS IN THIS AREA.

KEY PLAN

Hamilton Southeastern Schools







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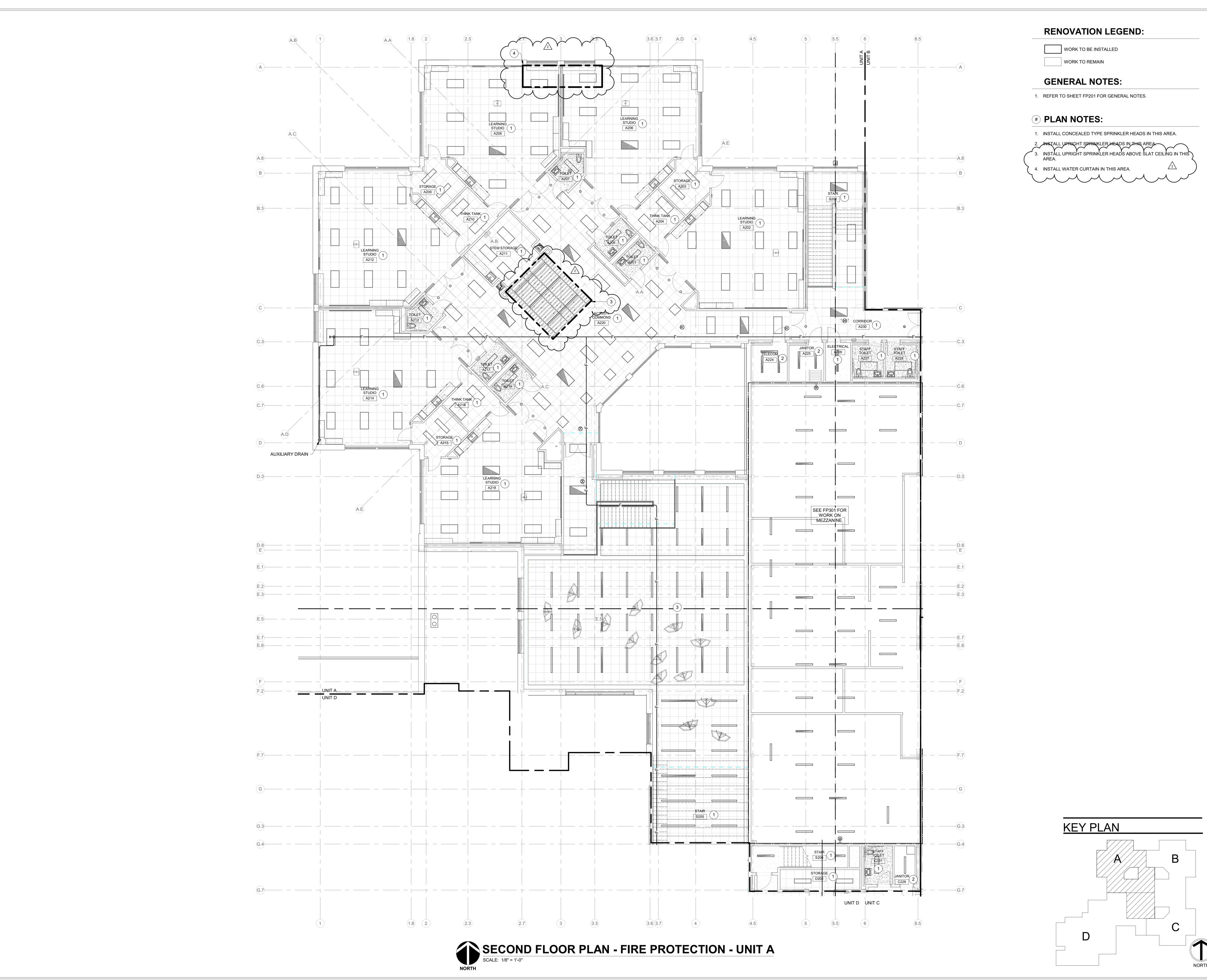
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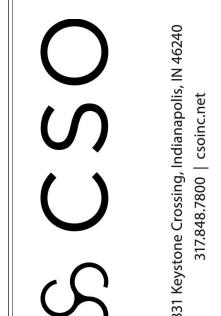


FP201C PROJECT NUMBER 2021119











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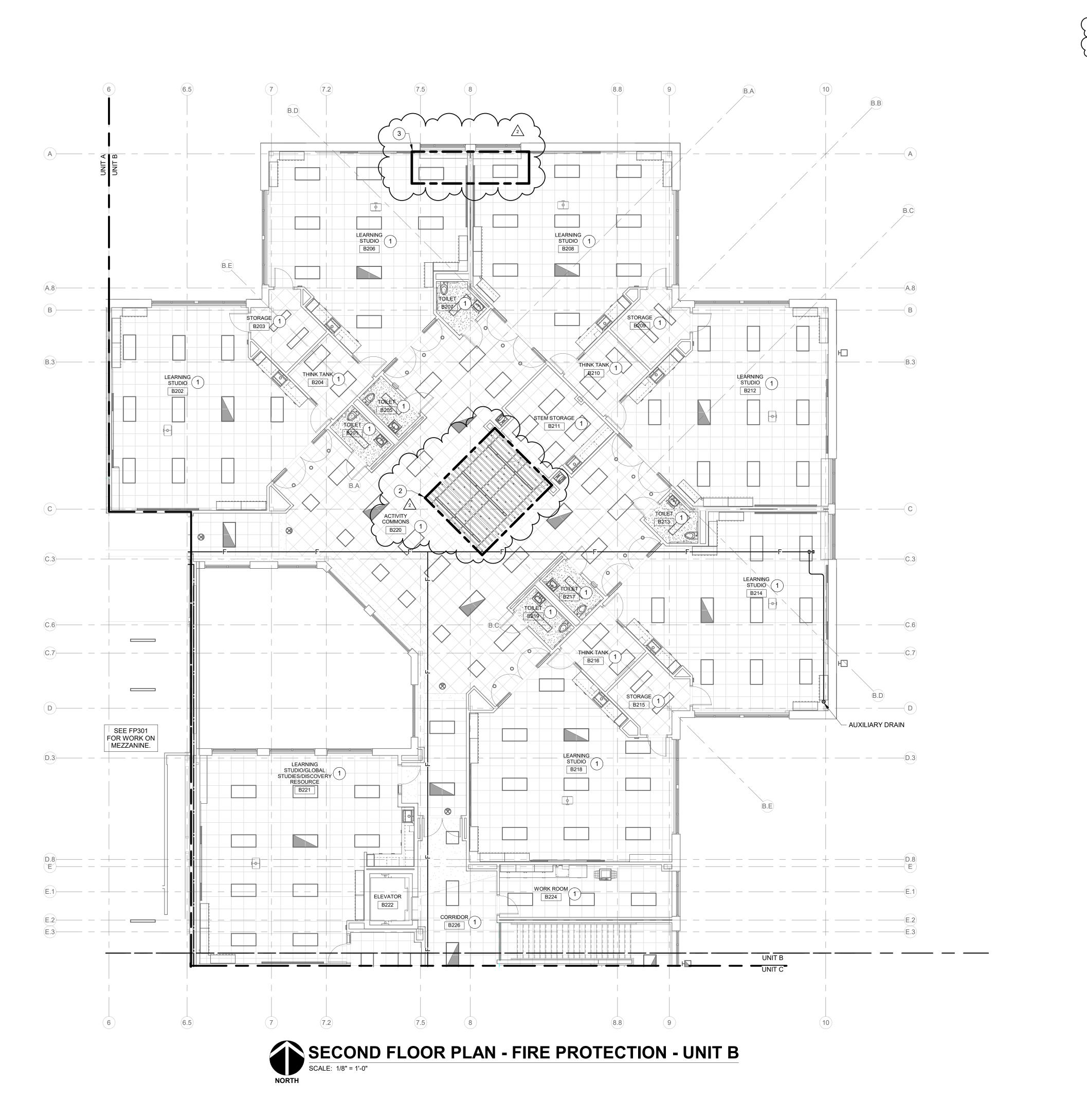
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DRAWING TITLE: SECOND FLOOR PLAN - FIRE PROTECTION



DRAWING NUMBER FP202A PROJECT NUMBER 2021119





WORK TO BE INSTALLED

WORK TO REMAIN



1. REFER TO SHEET FP201 FOR GENERAL NOTES.

## **# PLAN NOTES:**

2. INSTALL CONCEALED TYPE SPRINKLER HEADS IN THIS AREA
AREA.

> 3. INSTALL WATER CURTAIN IN THIS AREA.

KEY PLAN

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11442 Lantern Rd. Fishers. IN 46038

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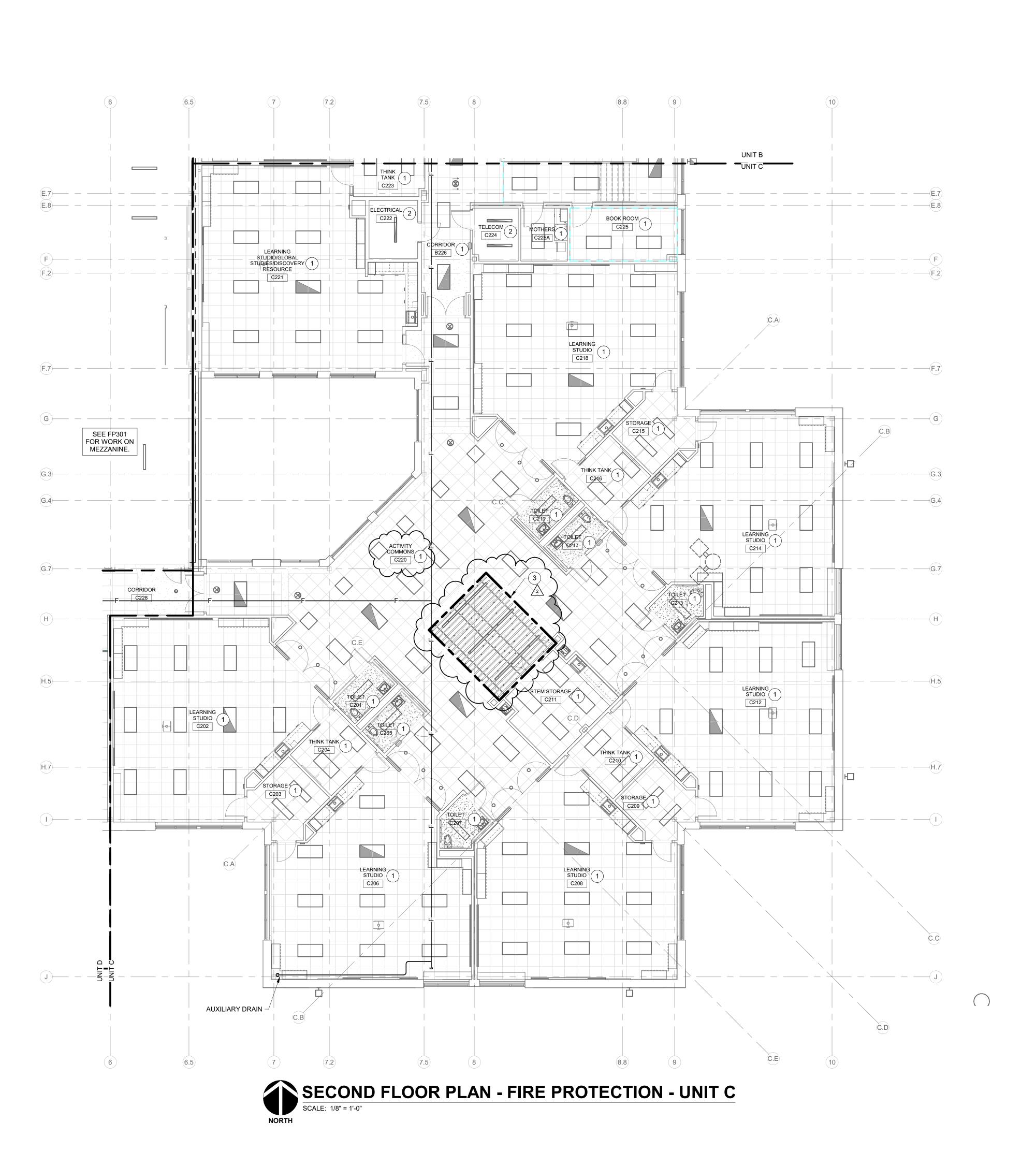
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SECOND FLOOR PLAN - FIRE PROTECTION



FP202B

PROJECT NUMBER
2021119



## **RENOVATION LEGEND:**

WORK TO BE INSTALLED WORK TO REMAIN

## **GENERAL NOTES:**

1. REFER TO SHEET FP201 FOR GENERAL NOTES.

## **# PLAN NOTES:**

1. INSTALL CONCEALED TYPE SPRINKLER HEADS IN THIS AREA.

KEY PLAN







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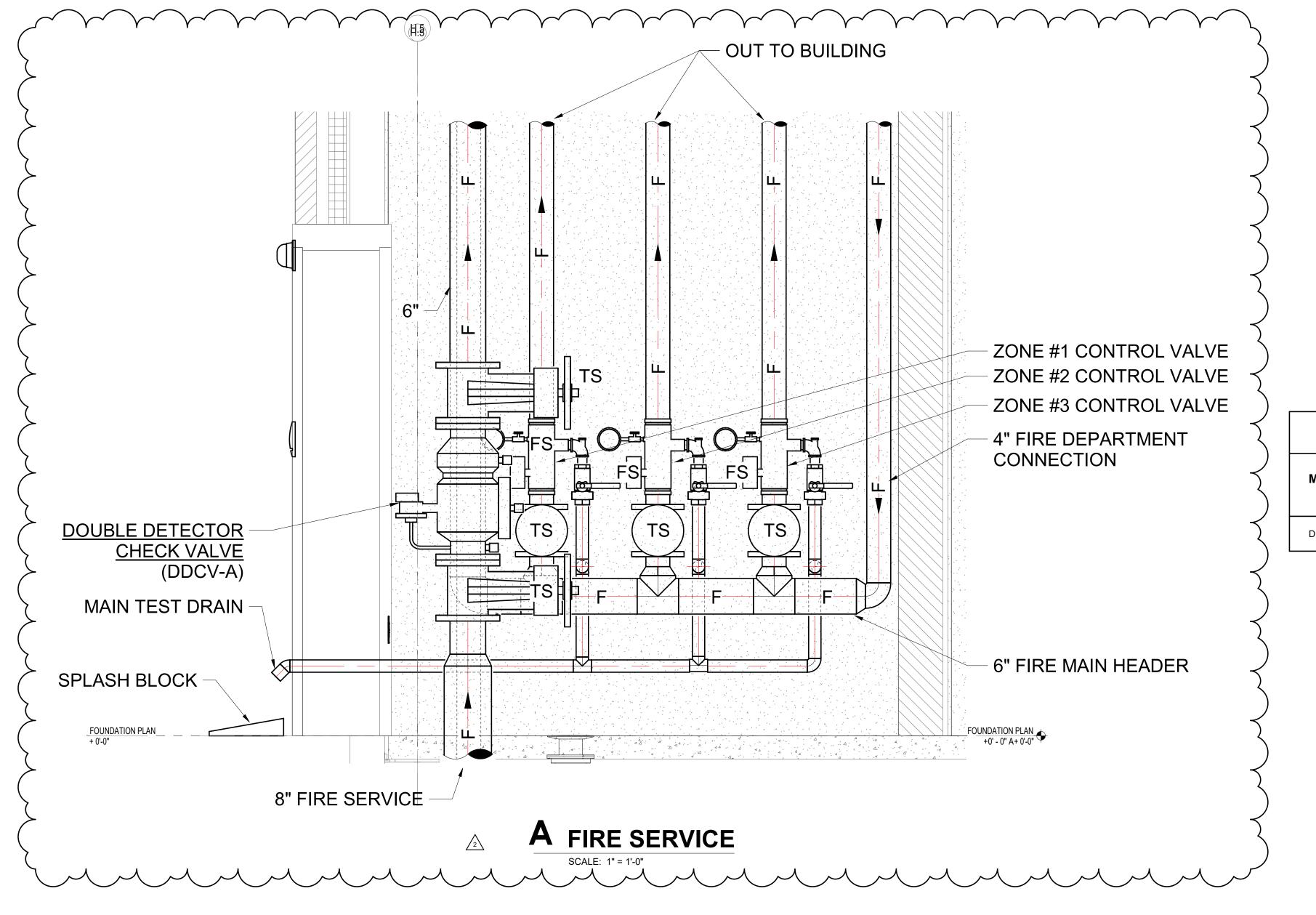
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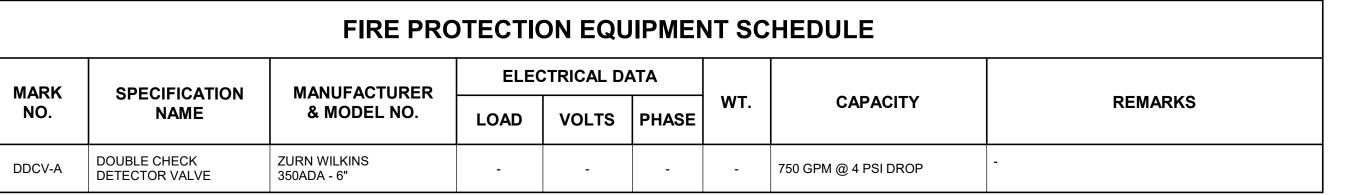
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FP202C PROJECT NUMBER 2021119





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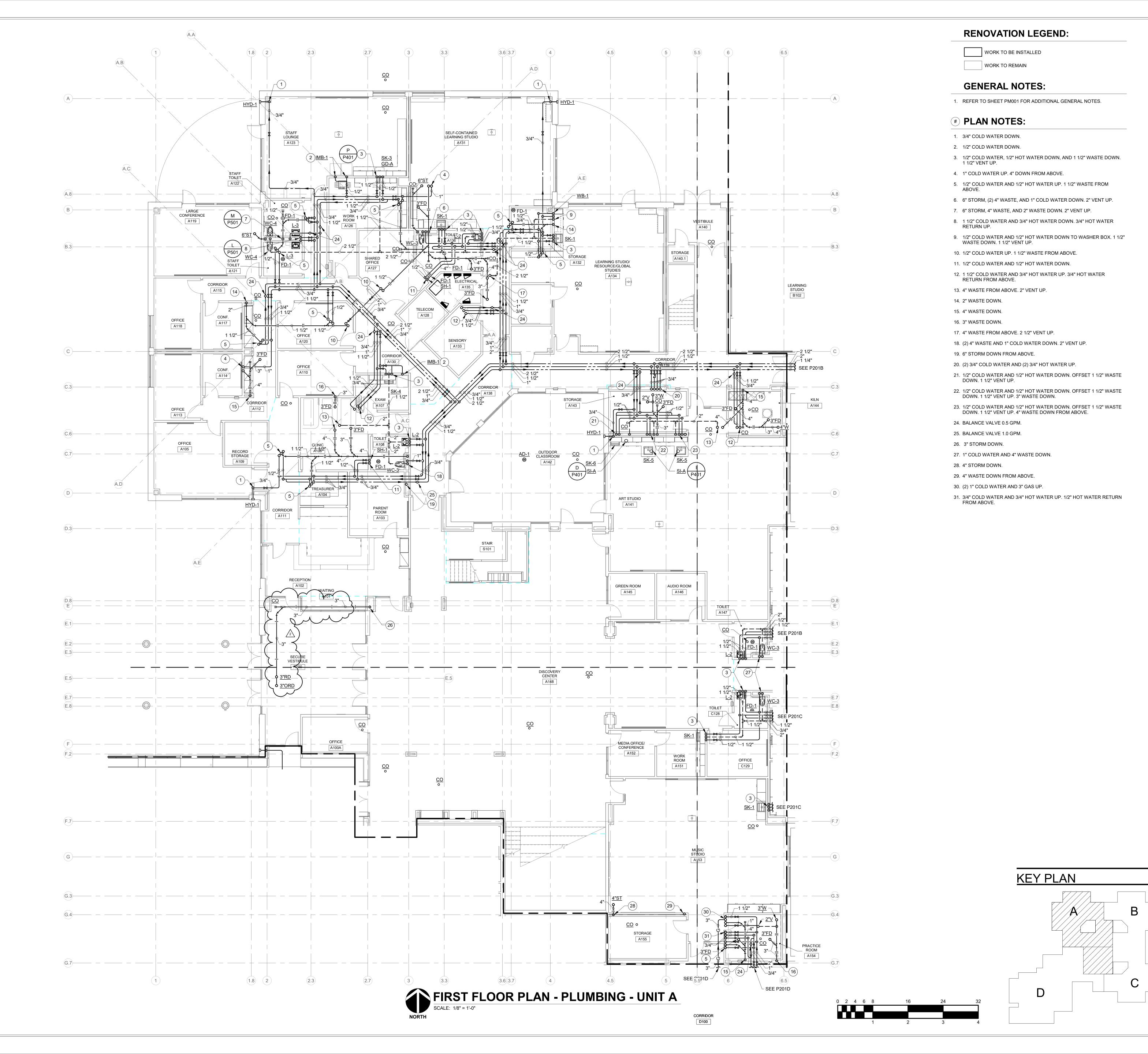
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DETAILS AND
SCHEDULES FIRE
PROTECTION



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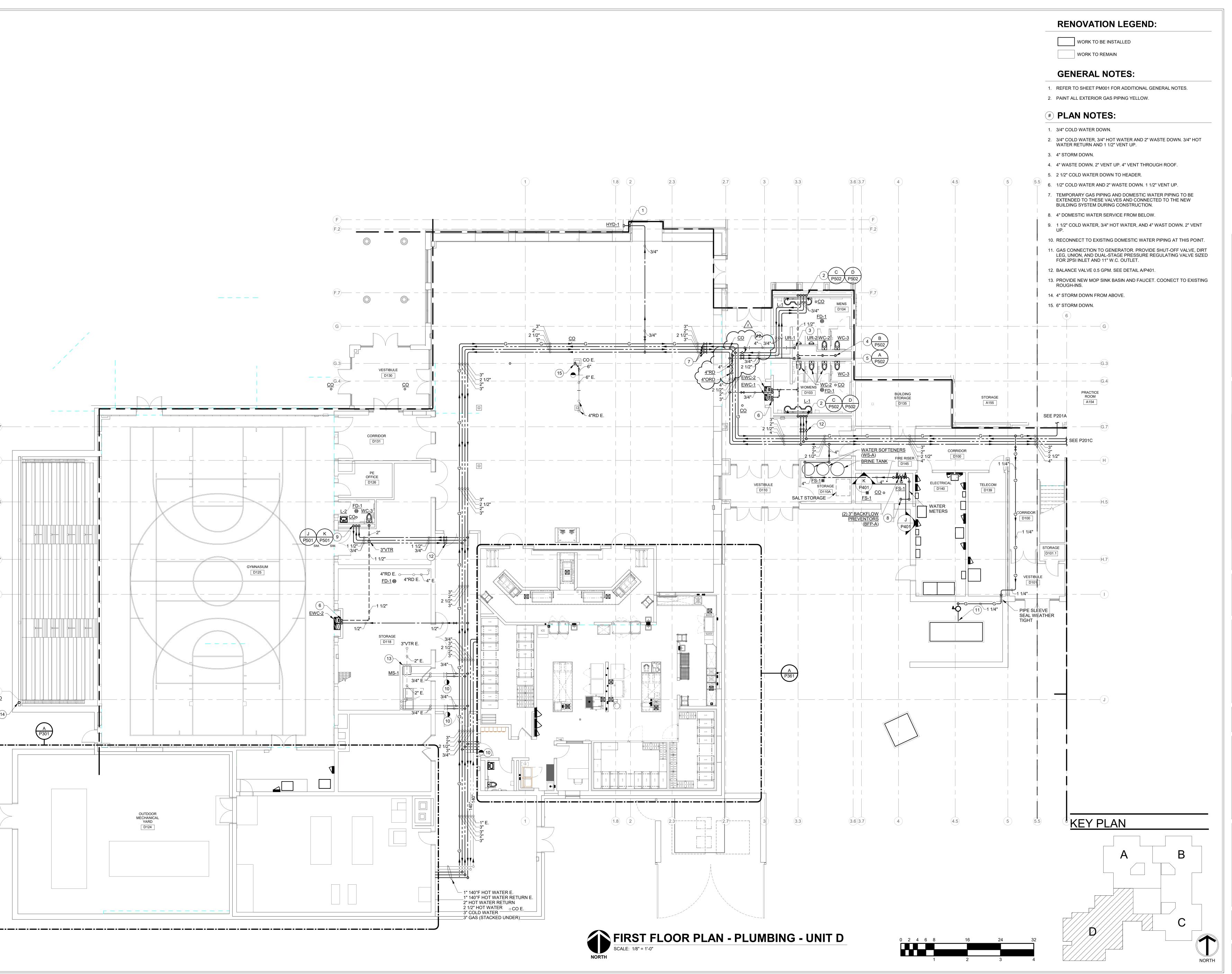
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FIRST FLOOR
PLAN PLUMBING UNIT A







Keystone Crossing, Indianapolis, IN 46240



OLS )

and Associates, Inc.
Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
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ADDITIONS & RENOVATIONS TO FISHERS ELEMENTARY
SCHOOL

11442 Lantern Rd. Fishers, IN 46038

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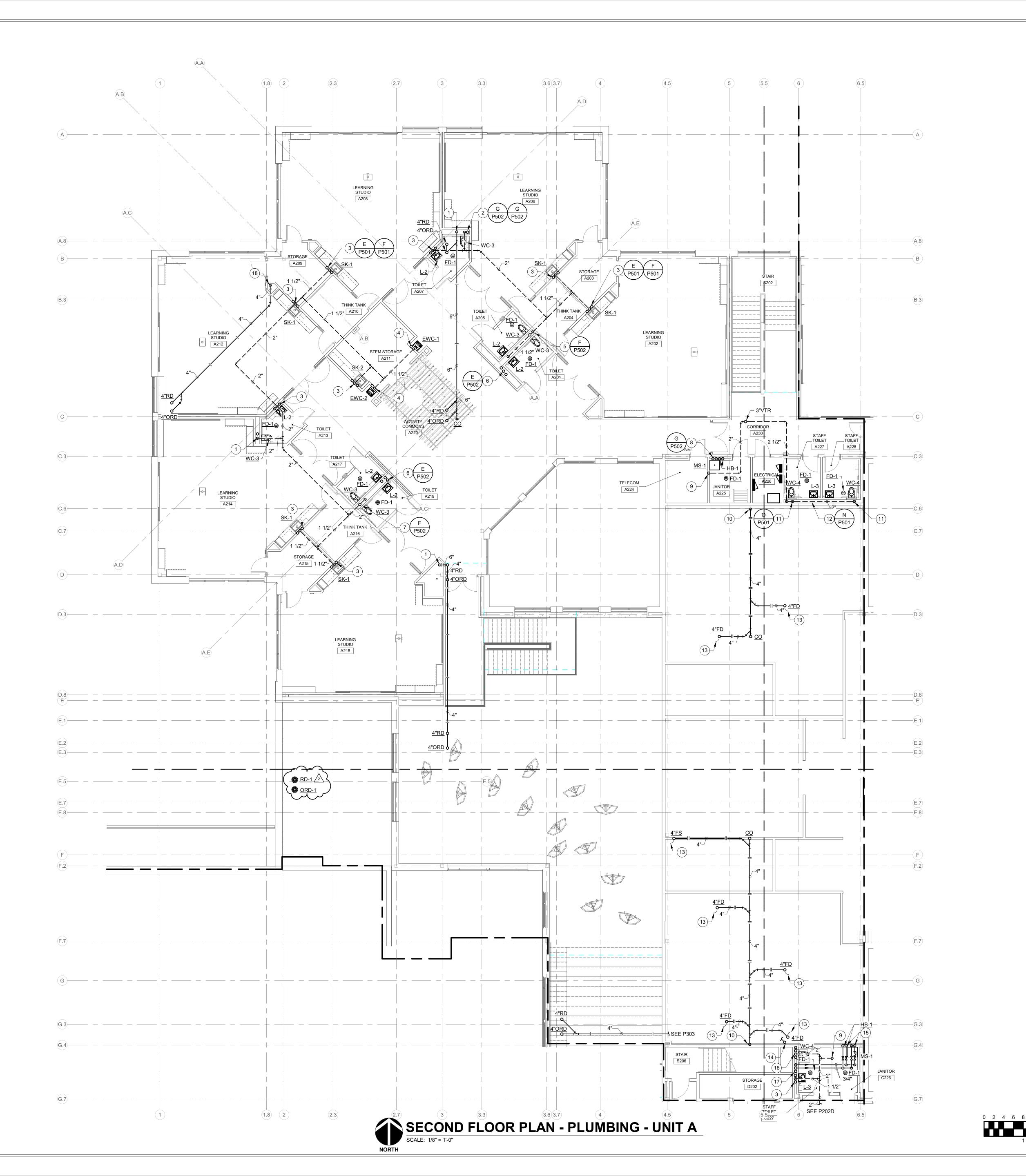
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FIRST FLOOR
PLAN PLUMBING -





## **RENOVATION LEGEND:**

WORK TO BE INSTALLED

WORK TO REMAIN

### **GENERAL NOTES:**

1. REFER TO SHEET PM001 FOR ADDITIONAL GENERAL NOTES.

### **# PLAN NOTES:**

1. 6" STORM DOWN.

- 2. 1" COLD WATER FROM BELOW. 4" WASTE DOWN. 2" VENT UP.
- 3. 1/2" COLD WATER AND 1/2" HOT WATER FROM BELOW. 1 1/2" WASTE DOWN. 1 1/2" VENT UP.
- 4. 1/2" COLD WATER FROM BELOW. 1 1/2" WASTE DOWN. 1 1/2" VENT UP. 5. 2 1/2" VENT FROM BELOW. 2" VENT UP. 4" WASTE DOWN. 3" VENT
- THROUGH ROOF.
- 1 1/2" COLD WATER AND 3/4" HOT WATER FROM BELOW. 3/4" HOT WATER RETURN DOWN. 7. 2" VENT FROM BELOW. 2" VENT UP. 4" WASTE DOWN. 3" VENT
- THROUGH ROOF.
- 8. (2) 3/4" COLD WATER AND (2) 3/4" HOT WATER FROM BELOW.
- 9. 2" VENT FROM BELOW.
- 10. 4" WASTE DOWN.
- 11. 4" WASTE DOWN. 2" VENT UP.
- 12. 1 1/2" COLD WATER AND 3/4" HOT WATER FROM ABOVE. 13. 1/2" COLD WATER FROM TRAP PRIMER DEVICE.
- 14. 1/2" COLD WATER FROM TRAP PRIMER DEVICE (TP-B) TO FLOOR DRAINS AND FLOOR SINK IN MECHANICAL MEZZANINE. PIPE SLEEVE
- FOR MULTIPLE PIPES FROM TRAP PRIMER DEVICE. 15. 3/4" COLD WATER AND 3/4" HOT WATER DOWN.
- 16. 1" COLD WATER FROM BELOW. 4" WASTE DOWN. 2" VENT UP. 1 1/2" COLD WATER AND 3" GAS UP FROM BELOW.
- 17. 3/4" COLD WATER AND 3/4" HOT WATER FROM BELOW. 1/2" HOT WATER UP. 1/2" HOT WATER RETURN DOWN FROM ABOVE.

18. 4" STORM DOWN.







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**REVISIONS:** Addendum#2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY

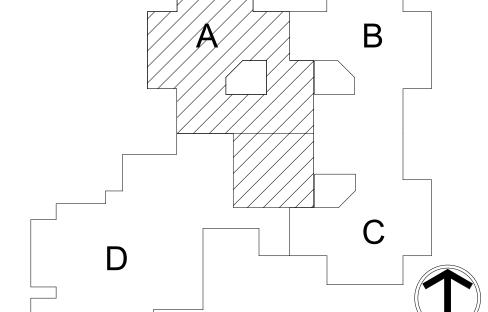
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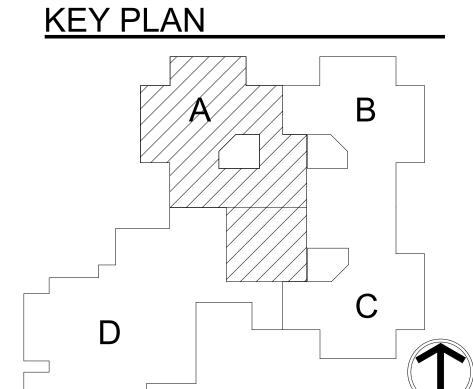
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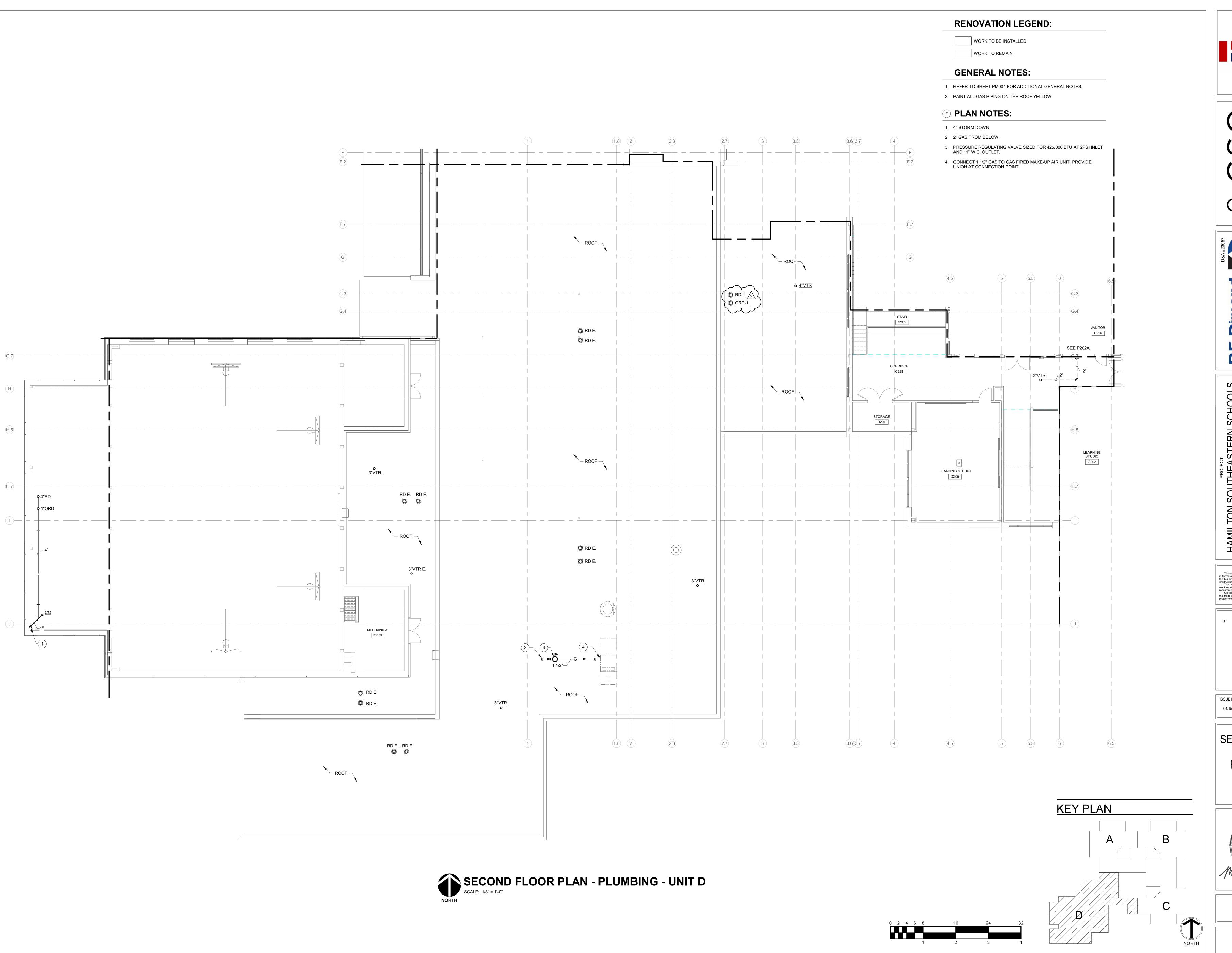
DRAWING TITLE: SECOND FLOOR PLUMBING -UNIT A



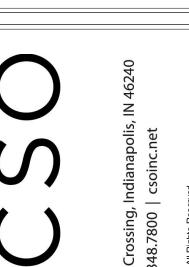
DRAWING NUMBER P202A















HAMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
SCHOOL
11442 Lantern Rd, Fishers, IN 46038

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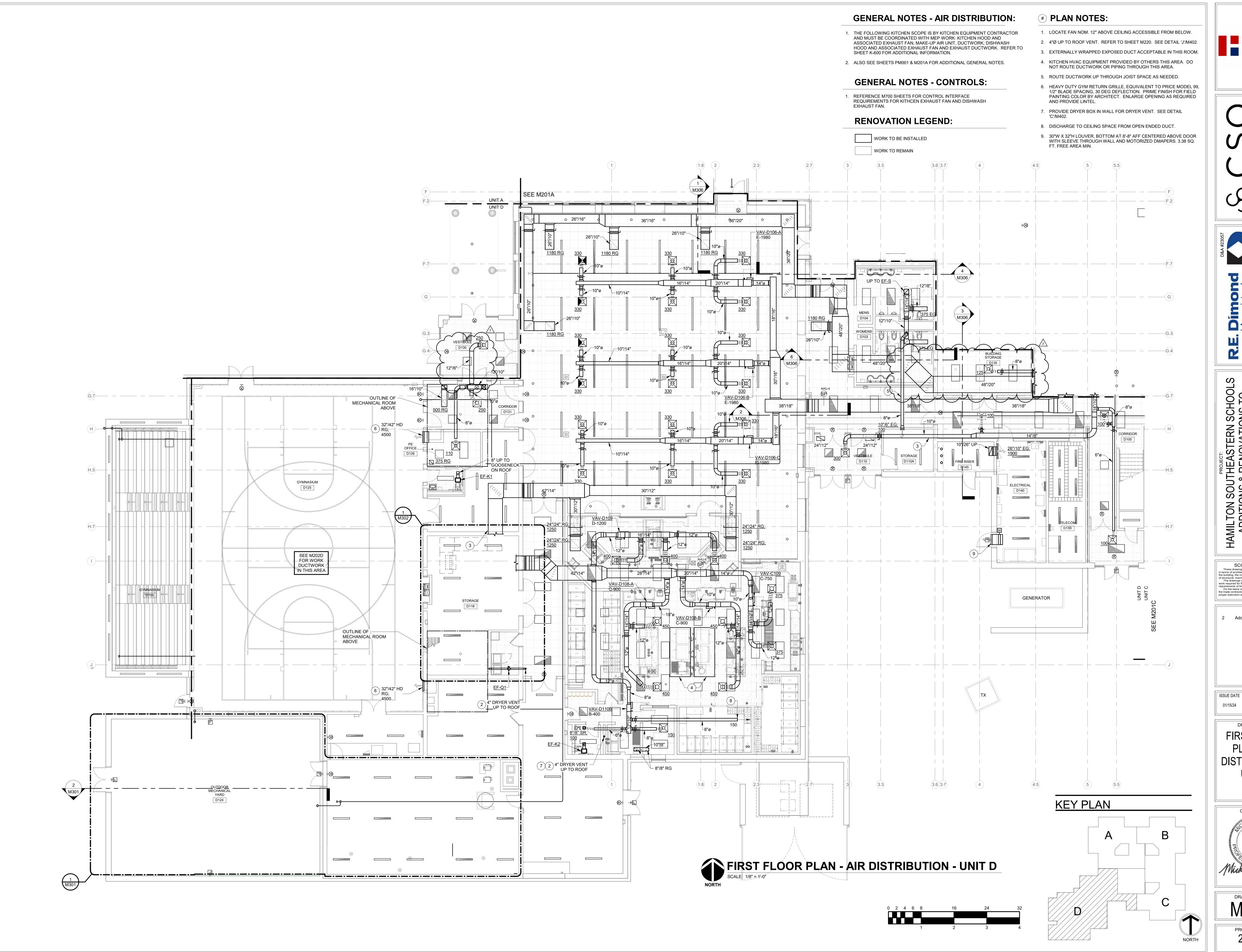
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01/15/24 AMB AMB

PLAN PLUMBING UNIT D





Hamilton Southeastern Schools

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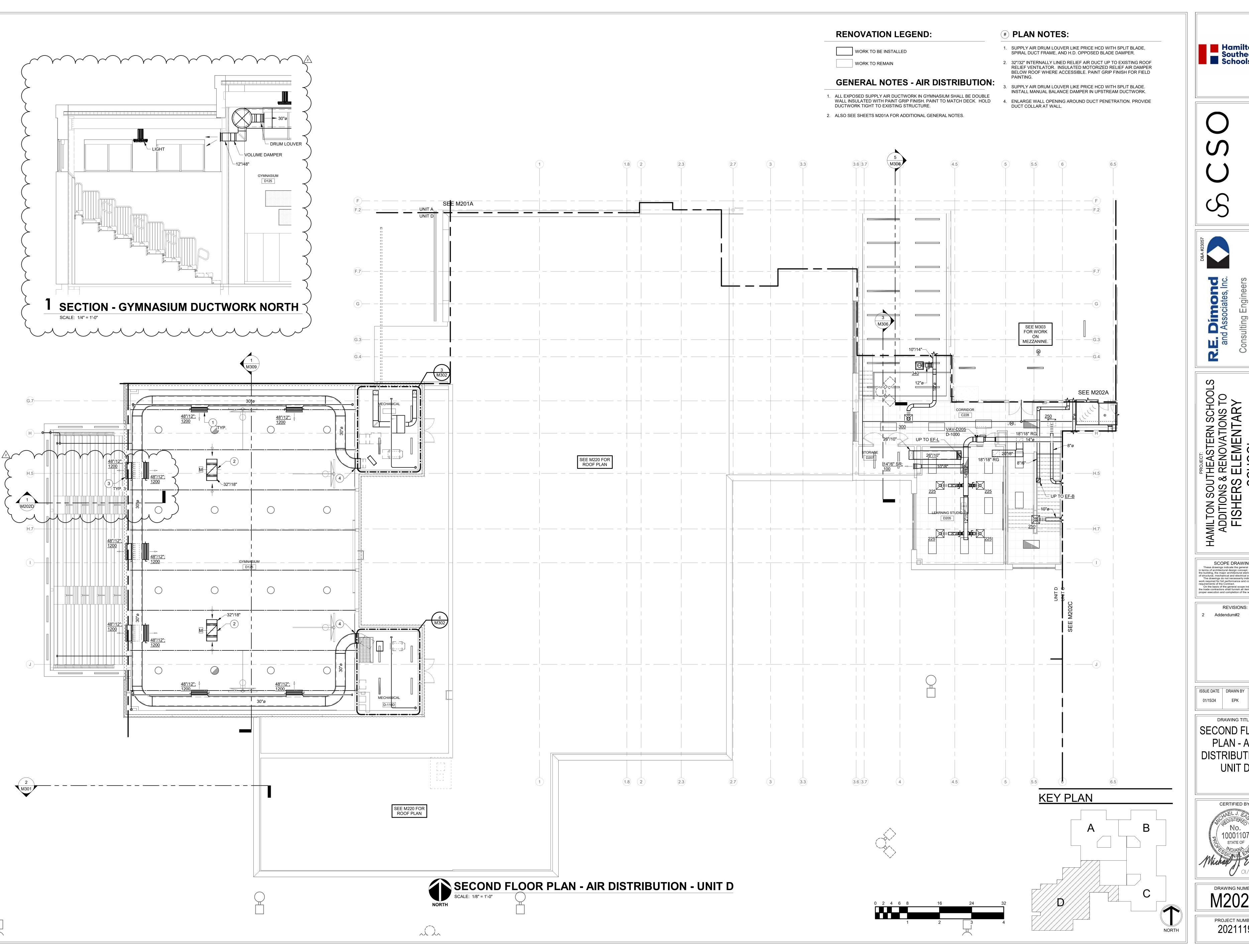
**REVISIONS:** Addendum#2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY EPK

DRAWING TITLE: FIRST FLOOR PLAN - AIR DISTRIBUTION -



DRAWING NUMBER M201D PROJECT NUMBER 2021119







SCOPE DRAWINGS:

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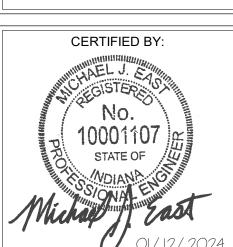
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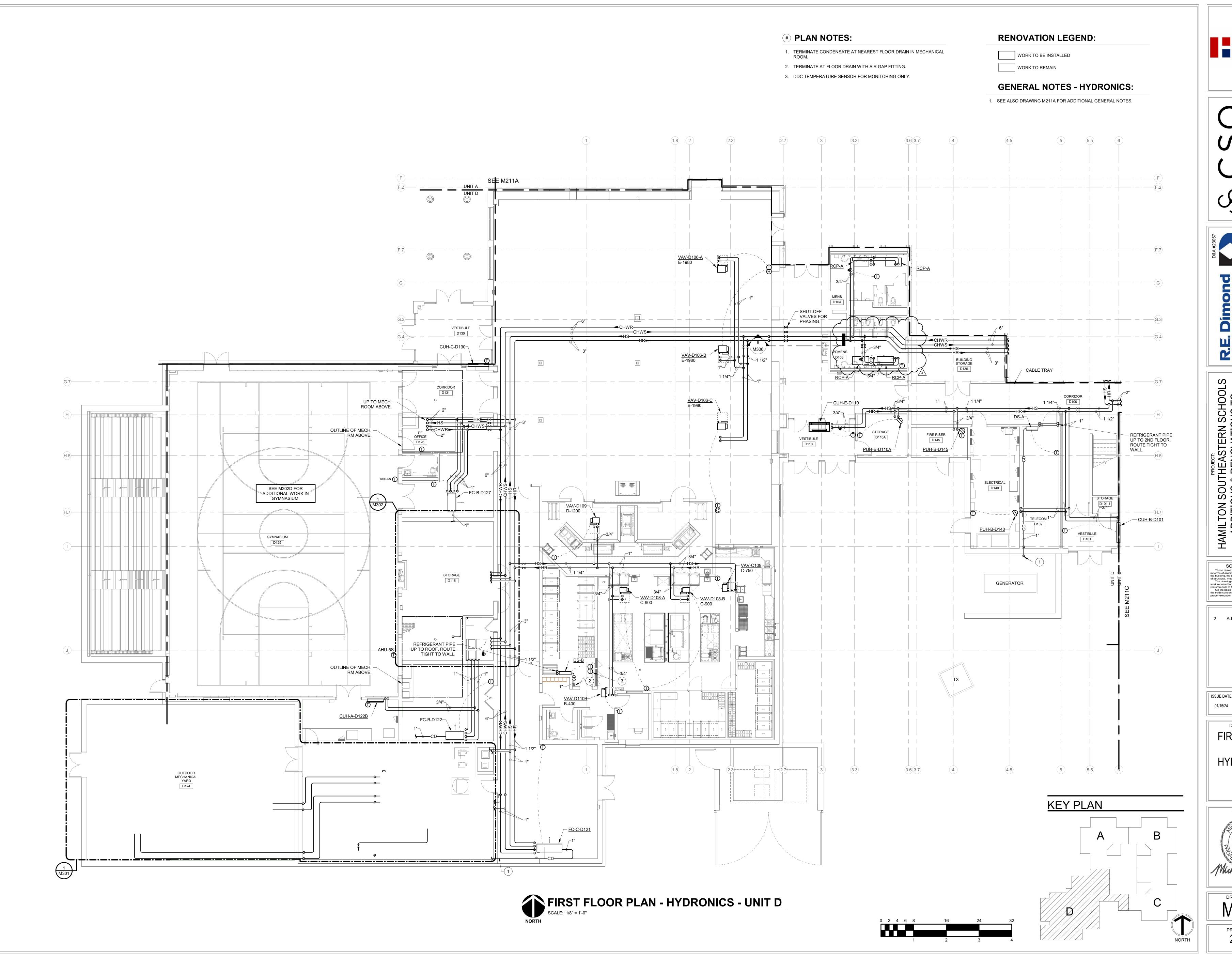
Addendum#2 02/02/2024

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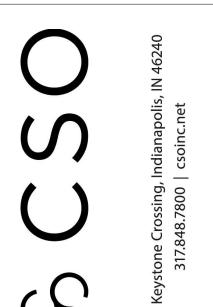
DRAWING TITLE: SECOND FLOOR PLAN - AIR DISTRIBUTION -



DRAWING NUMBER M202D PROJECT NUMBER 2021119









Consulting Engineers 732 North Capitol Avenue Indianapolis, IN 46204 Phone: (317) 634-4672 www.redimond.com

HAMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
11442 Lantern Rd, Fishers, IN 46038

SCOPE DRAWINGS:

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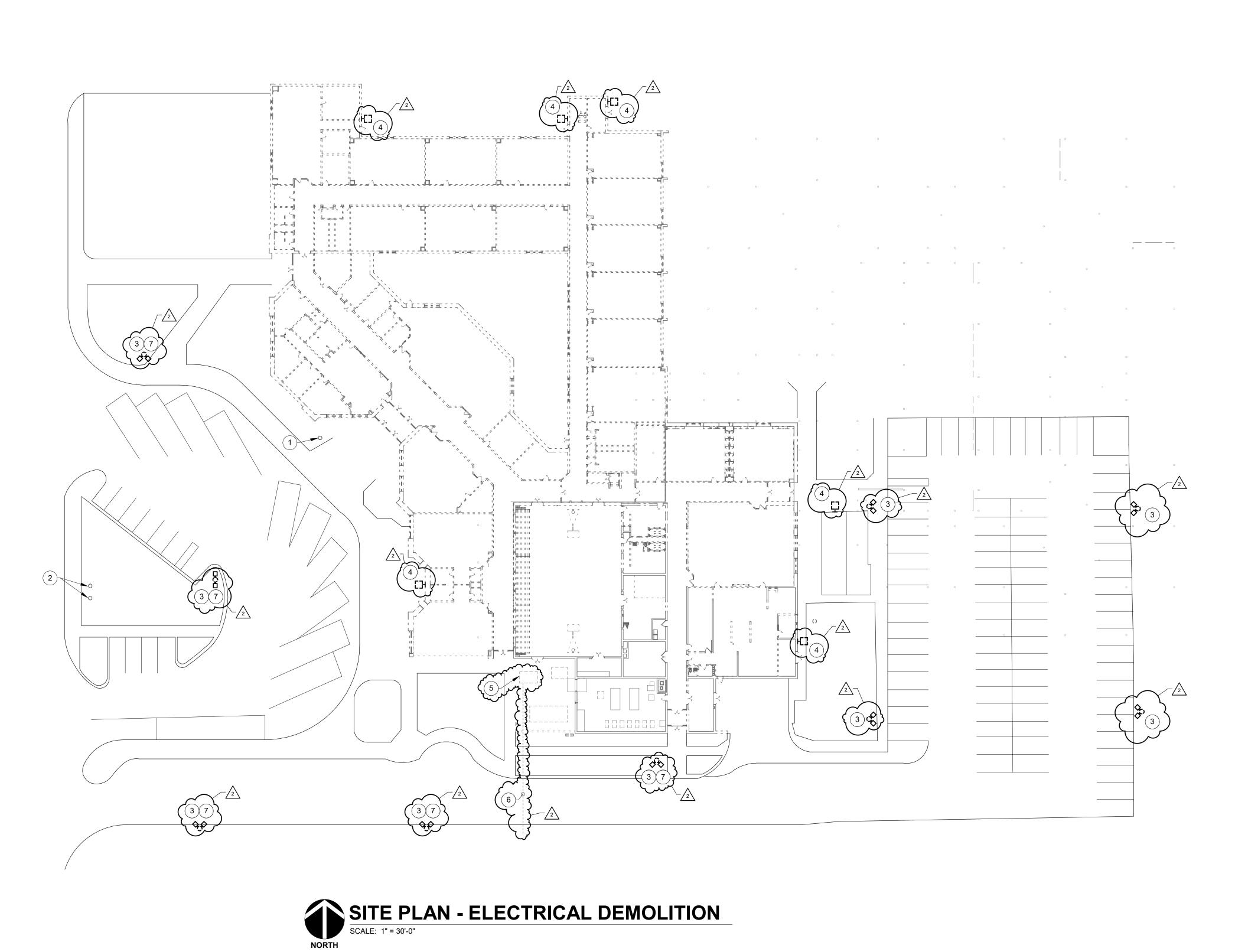
FIRST FLOOR
PLAN HYDRONICS -



DRAWING NUMBER

M211D

PROJECT NUMBER
2021119





WORK TO BE INSTALLED

WORK TO REMAIN

## **GENERAL NOTES:**

1. SEE E001 FOR GENERAL NOTES.

### ~~~ ~~

**# PLAN NOTES:** 

FLAG POLE LIGHT TO BE DEMOLISHED.
 FLOOD LIGHTS FOR SIGNAGE TO BE DEMOLISHED.

3. REMOVE LIGHT POLE FIXTURE CONCRETE BASE & WIRING COMPLETE - TYPICAL.

3. REMOVE LIGHT POLE FIXTURE CONCRETE BASE & WIRING COMPLETE - TYPICAL.

4. REMOVE EXTERIOR WALL LIGHT - TYPICAL.

5. DUKE ENERGY PAD MOUNT TRANSFORMER TO BE REMOVED AFTER SWITCHOVER TO NEW SERVICE. COORDINATE. REMOVE PAD.

6. DUKE ENERGY UNDERGROUND PRIMARY TO BE REMOVED AFTER SWITCHOVER TO NEW SERVICE. COORDINATE. REMOVE CONDUIT STUB-UPS

7. SALVAGE LIGHT FIXTURES & MOUNTING ARMS & TURN OVER TO

■ ■ Hai

Hamilton
Southeastern
Schools



onsulting Engineers
2 North Capitol Avenue
lianapolis, IN 46204
one: (317) 634-4672

ON SOUTHEASTERN SCHOOLS
ITIONS & RENOVATIONS TO
SHERS ELEMENTARY
SCHOOL
SCHOOL
1442 Lantern Rd, Fishers, IN 46038

SCOPE DRAWINGS:

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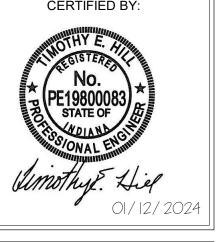
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SITE PLAN -ELECTRICAL

CERTIFIED BY:

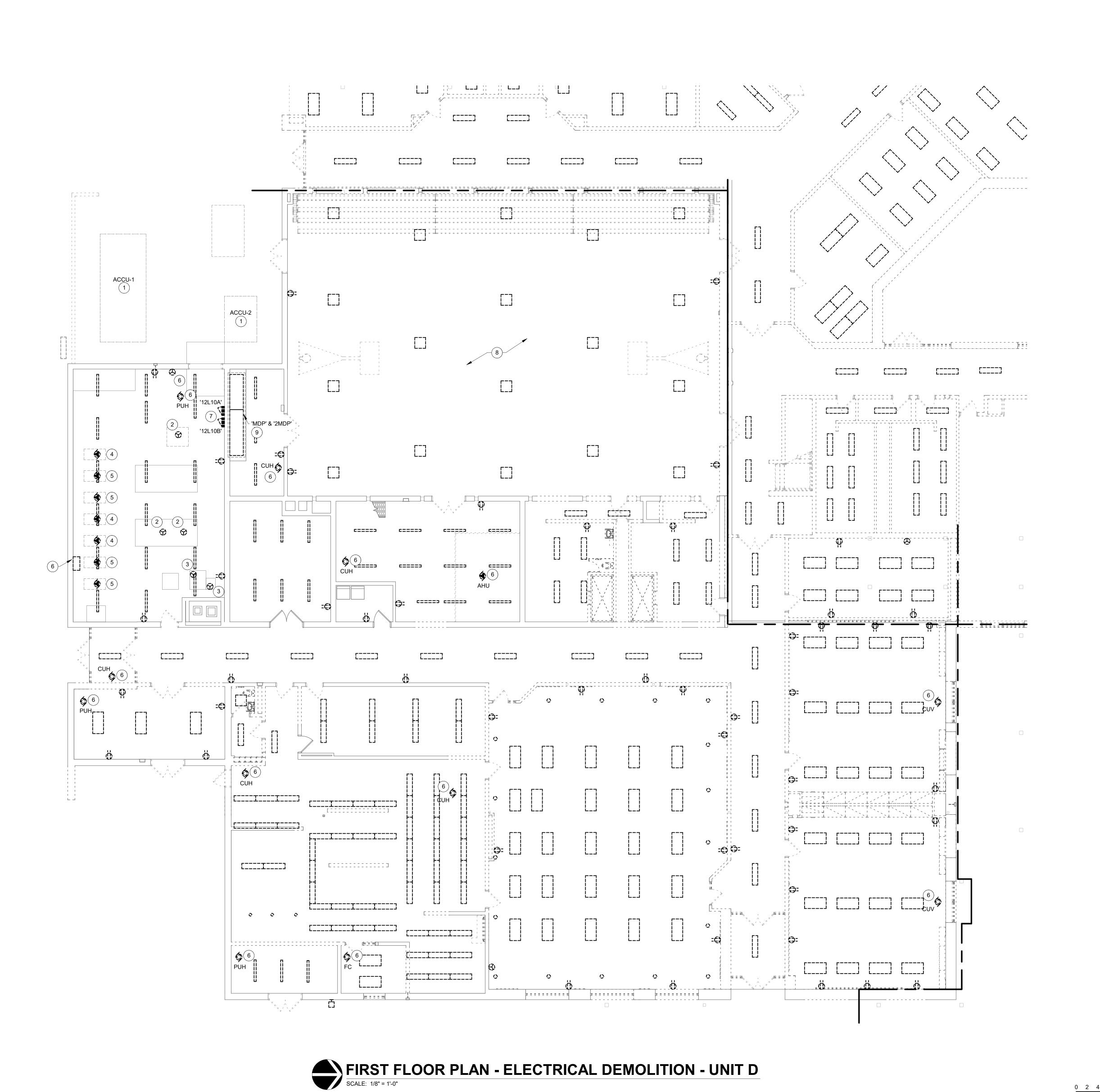


ED100

PROJECT NUMBER

2021119

0 5 15 30 60 90 120



**DEMOLITION LEGEND:** 

[ ] WORK TO BE REMOVED WORK TO REMAIN

**GENERAL NOTES:** 

1. SEE E001 FOR GENERAL NOTES. 2. NOT ALL DEVICES ARE SHOWN. INTENT IS TO MAKE SAFE AND • DEMOLISH WITH THE BUILDING DEMOLITION. 

### **# PLAN NOTES:**

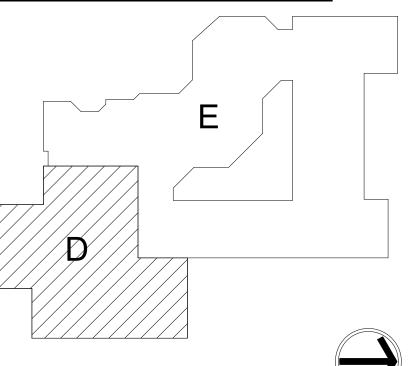
- 1. AIR COOLED CHILLER TO BE REMOVED. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT & WIRING COMPLETE. FED FROM 'MSB'.
- 2. BOILER TO BE REMOVED. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT & WIRING COMPLETE.
- 3. WATER HEATER TO BE REMOVED. REMOVE ALL ASSOCIATED
- ELECTRICAL EQUIPMENT & WIRING COMPLETE.
- 4. HEATING WATER PUMP TO BE REMOVED. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT & WIRING COMPLETE.
- 5. CHILLED WATER PUMP TO BE REMOVED. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT & WIRING COMPLETE.
- 6. MECHANICAL EQUIPMENT TO BE REMOVED. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT & WIRING COMPLETE.
- 7. REMOVE ELECTRICAL PANELS 12L10A (LEFT) & B(RIGHT), ALL ASSOCIATED BRANCH CIRCUITS, AND FEEDER BACK TO SOURCE
- manne
- 8. SALVAGE SCOREBOARD(S) IN THIS AREA. TURN OVER TO OWNER. 9. REMOVE SWITCHBOARD, SERVICE ENTRANCE, FEEDERS, ETC.

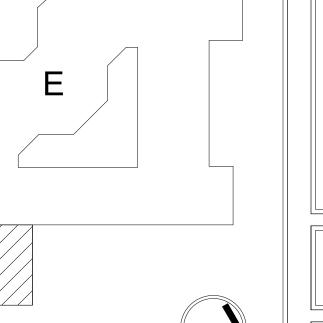
CONTRACTOR SHALL SALVAGE ALL EXISTING INTERIOR LIGHT FIXTURES & CONTROLS (OCCUPANCY SENSORS, POWER PACKS, DIMMERS, LOW

FIXTURES & WRAP FOR PROTECTION & DELIVER TO AN OWNER DESIGNATED LOCATION. COORDINATE WITH OWNER. CONTRACTOR SHALL DISPOSE OF ANY ITEMS DEEMED OBSOLETE BY THE OWNER.

VOLTAGE SWITCHES, ETC.) & TURN OVER TO OWNER. MAJORITY OF FIXTURES WERE RECENTLY INSTALLED AND ARE LED. PALLETIZE

## **KEY PLAN - EXISTING**





ED201D PROJECT NUMBER 2021119







OLS )

SCOPE DRAWINGS:

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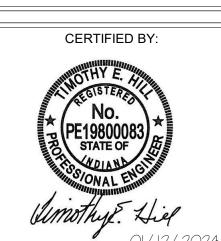
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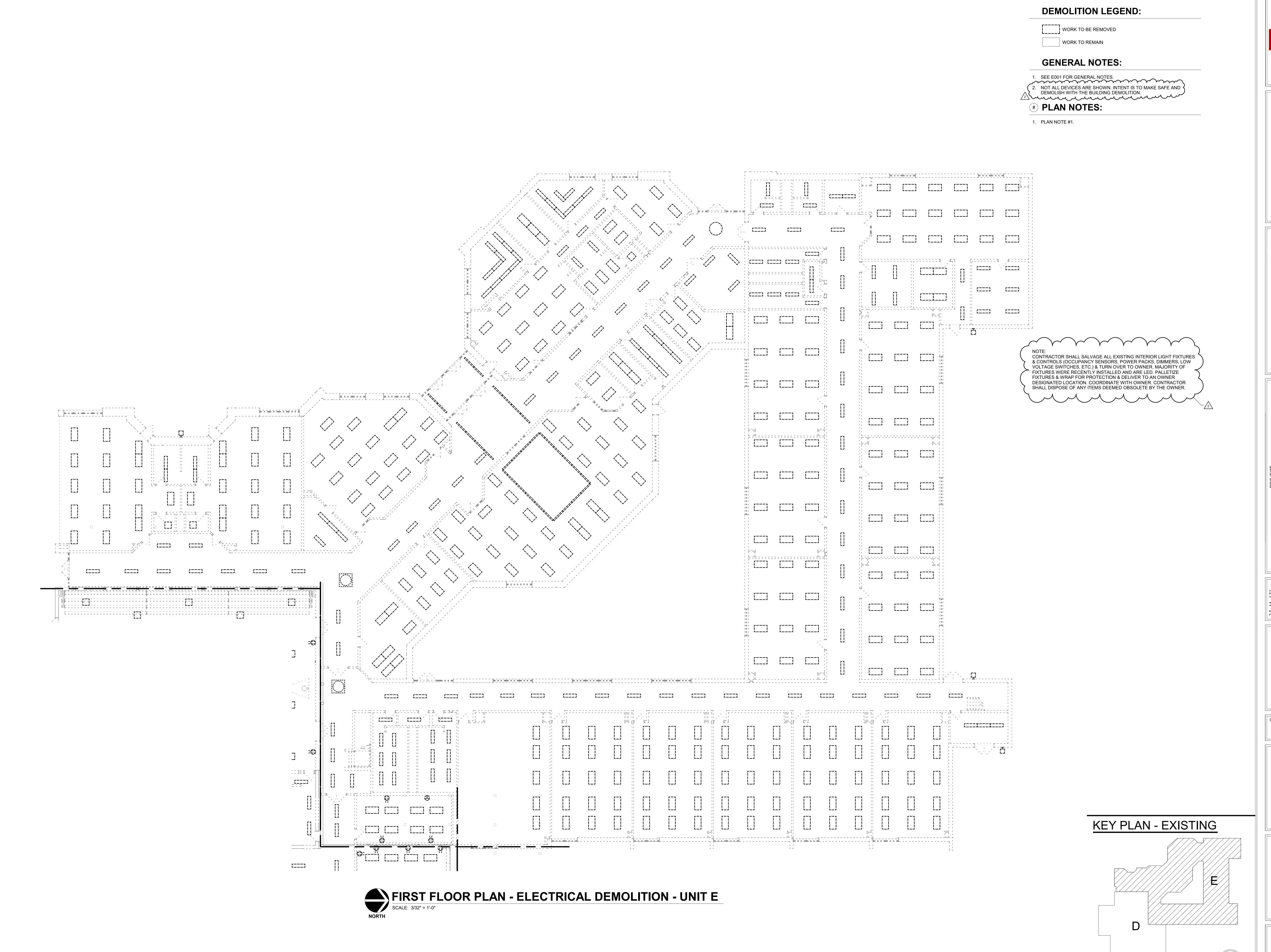
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DRAWING TITLE: FIRST FLOOR **DEMOLITION -**UNIT D



DRAWING NUMBER



Hamilton Southeastern Schools

Signature Crossing, Indianapolis, IN 46240



and Associates, Inc.

onsulting Engineers
in applies, in 46204
one: (317) 634-4672

ILTON SOUTHEASTERN SCHOOLS
DDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL

11442 Lantern Rd, Fishers, IN 46038

SCOPE DRAWINGS:
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Addendum#2 02/02/2024

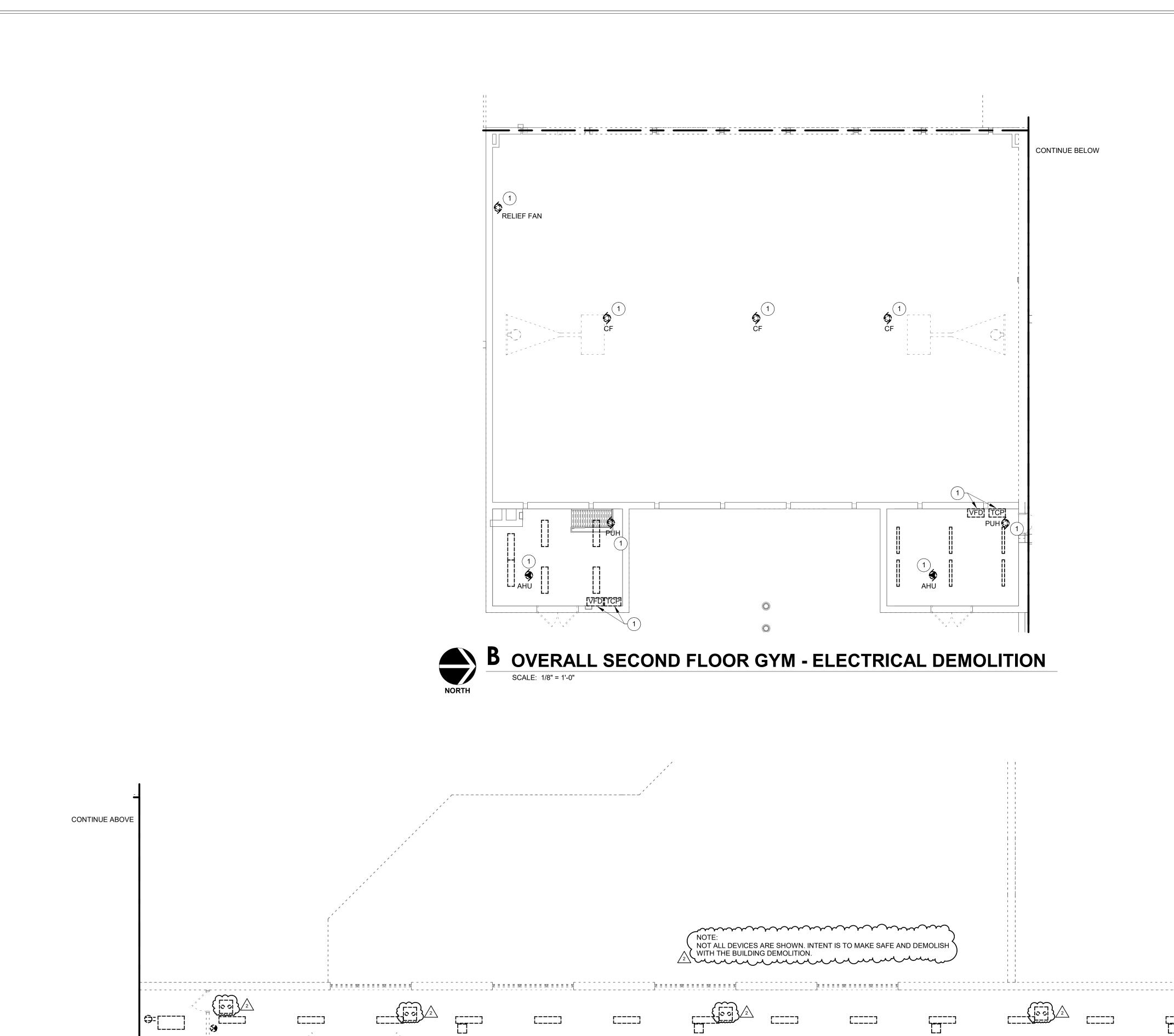
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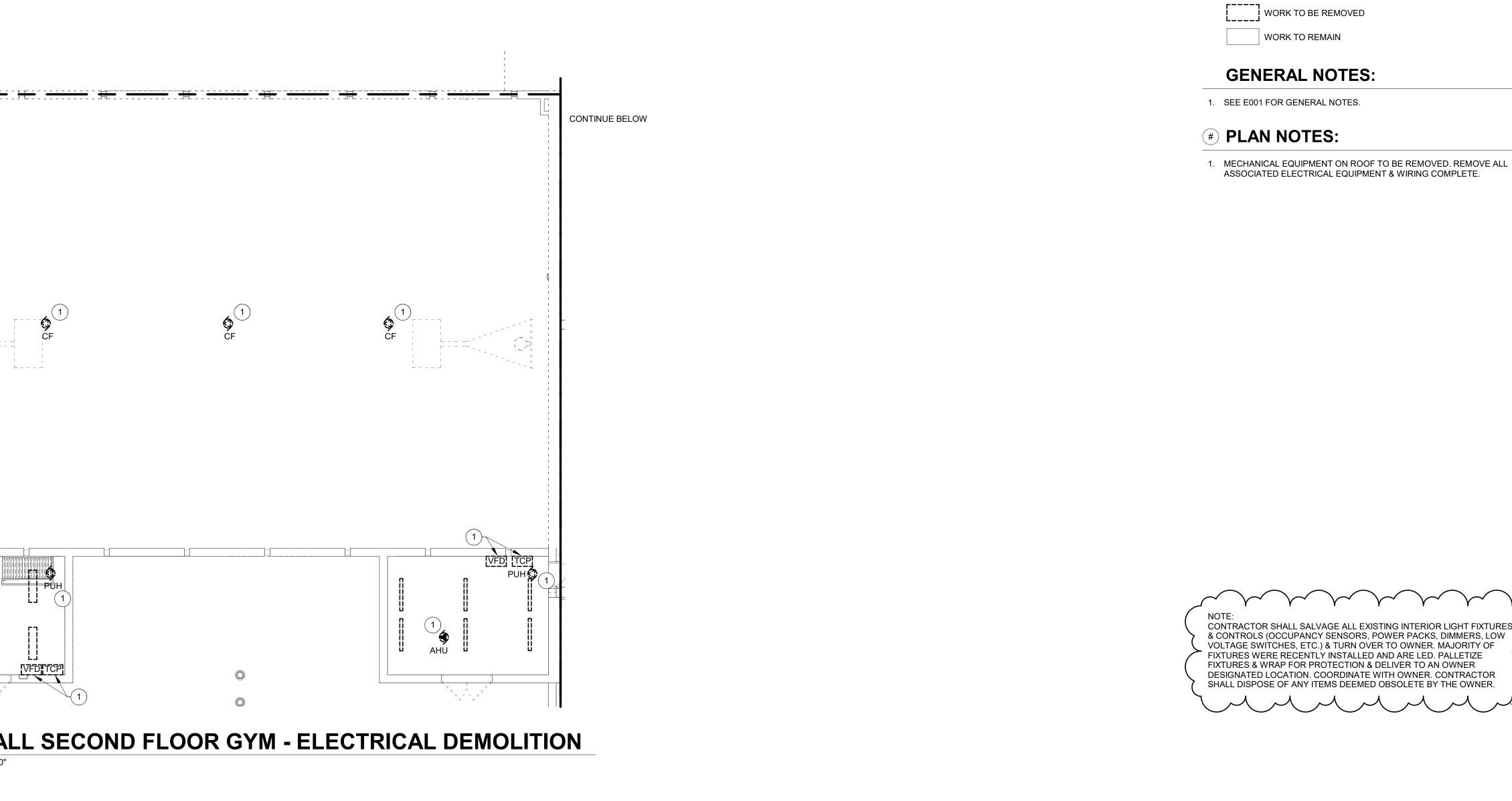
FIRST FLOOR
PLAN ELECTRICAL
DEMOLITION UNIT E

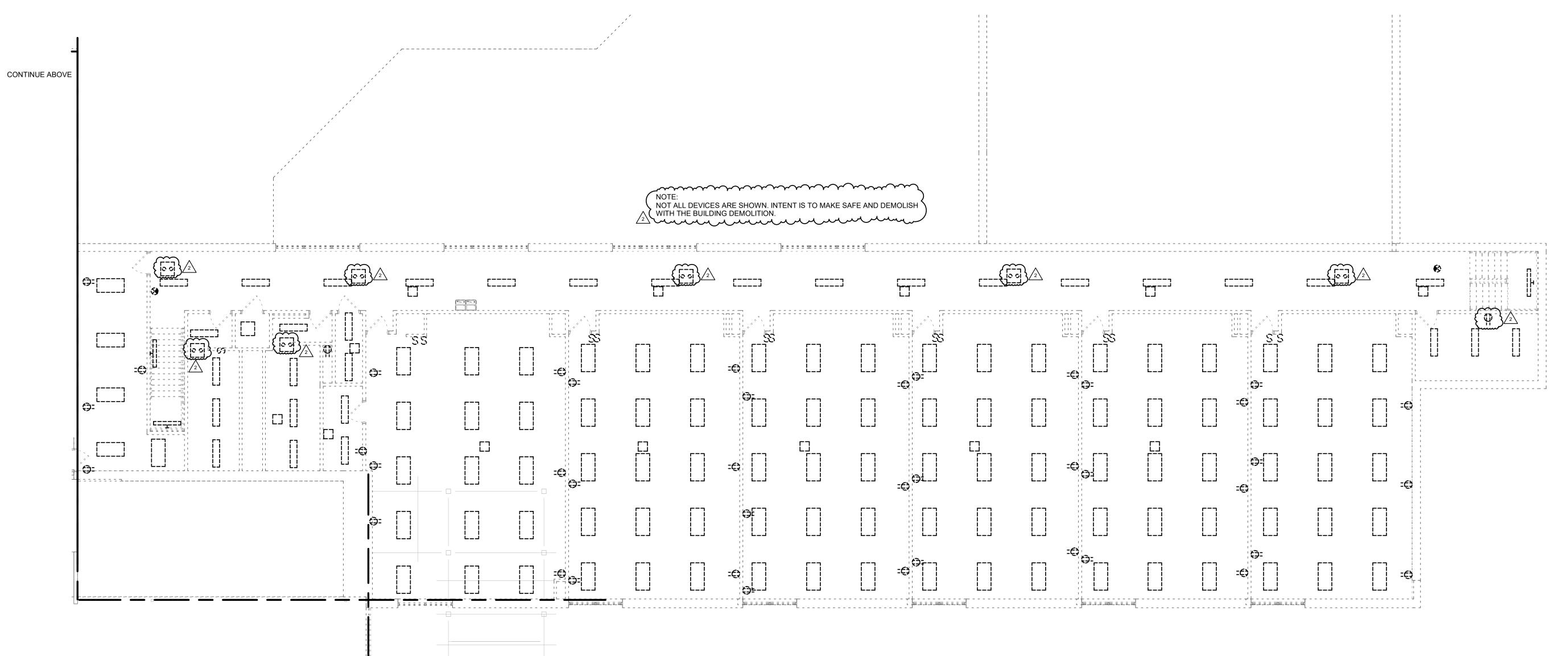


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ED201E

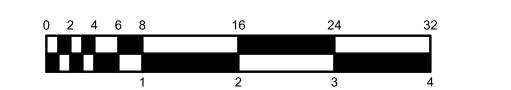
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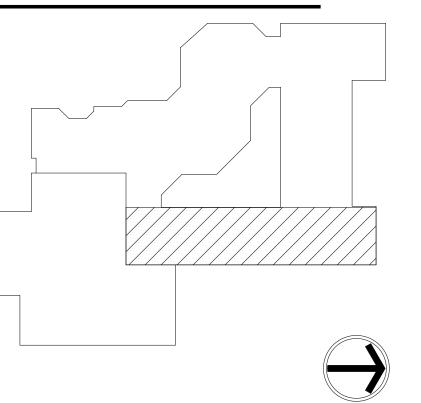












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PROJECT NUMBER

PROJECT NUMBER 2021119

Hamilton
Southeaste
Schools

**DEMOLITION LEGEND:** 

Soinc.net

S31 Keystone Crossing, Indianapolis, IN 4

nc.

and Associates, Inc.
Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672

MILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
A1442 Lantern Rd. Fishers, IN 46038

SCOPE DRAWINGS:

sees drawings indicate the general scope of the project to of architectural design concept, the dimensions of ilding, the major architectural elements and the type ctural, mechanical and electrical systems. The dead of the dead o

REVISIONS: Addendum#2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY

DRAWING TITLE:

OVERALL
SECOND FLOOR
PLAN ELECTRICAL
DEMOLITION



## **DEMOLITION LEGEND:**

[ WORK TO BE REMOVED

WORK TO REMAIN

**GENERAL NOTES:** 

1. SEE E001 FOR GENERAL NOTES.

## **# PLAN NOTES:**

 MECHANICAL EQUIPMENT ON ROOF TO BE REMOVED. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT & WIRING COMPLETE.

 \*\*THE COMPLETE COMPLICA COMPLETE COMPLETE COMPLETE COMPLETE COMPLETE COMPLETE COMPLET 2. EXISTING MECHANICAL EQUIPMENT TO BE KEPT. REMOVE ALL ASSOCIATED ELECTRICAL WIRING AND CONTROLS. SEE E210 SERIES

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Southeastern
Schools





HAMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
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SCHOOL

11442 Lantern Rd, Fishers, IN 46038

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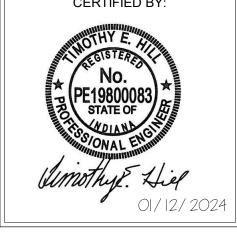
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DRAWING TITLE: ROOF PLAN -ELECTRICAL DEMOLITION

KEY PLAN - EXISTING

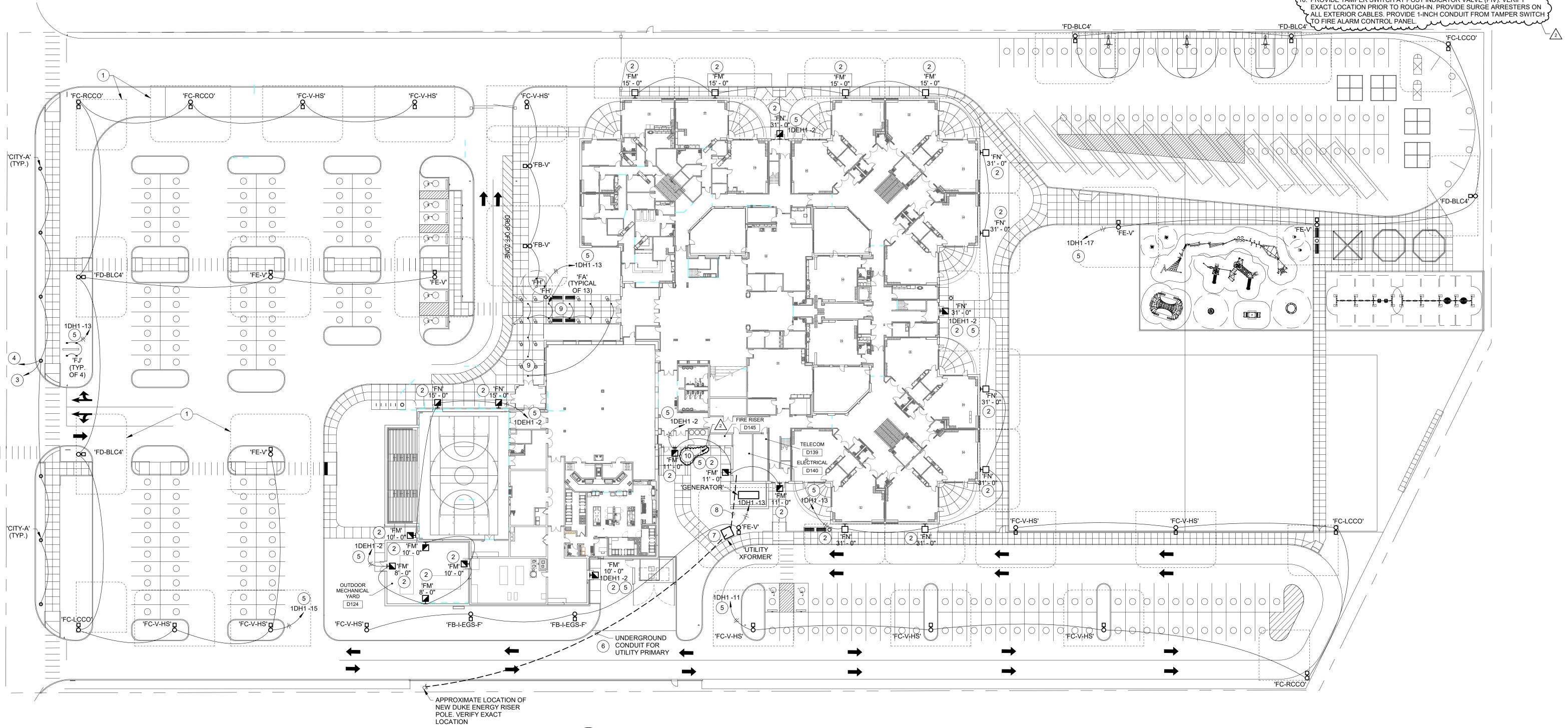


ED220 PROJECT NUMBER 2021119





EXTERIOR LIGHT FIXTURE SCHEDULE											
MARK	DESCRIPTION	MOUNTING	TOTAL FIXTURE WATTS	CRI	WATTS	COLOR	LUMENS	VOLTS	MANUFACTURER(S)	MARK	
CITY-A	FISHERS NICKEL PLATE DISTRICT STANDARD STREETLIGHT AND POLE, FISHERS GREEN (RAL6004), WITH GFI OUTLET AND LOW-PROFILE IN-USE COVER AT TOP OF POLE, BANNER ARMS, AND PLANT BRACKETS. KIM 'SOLITAIRE' POST-TOP FIXTURE AND STERNBERG 3300 'GATEWAY SERIES' POLE. VERIFY LOCATIONS AND FIXTURE SPECIFICATIONS WITH CITY OF FISHERS PRIOR TO ORDERING FIXTURES.	POLE	67	70	67W	5100K	6000	277 V	KIM FM/SRS1H5E35/60L5KUV-RAL6004 & 3311'9"T5/.188/NO TENON/GFI-LPIUC/2-BDBA/1-DSPA/CM-RAL600 4	CITY-A	
FA	LENSED DOWNLIGHT, 6-INCH DIAMETER APERTURE, FULL CUTOFF, WET LOCATION COVERED CEING LISTED, VANDAL-RESISTANT, CAST ALUMINUM BEZEL, STAINLESS STEEL TRIM HARDWARE, CLEAR SEMI-SPECULAR REFLECTOR, SELF FLANGED, 0-10V DIMMING TO 10-PERCENT, MEDIUM DISTRIBUTION.	RECESSED	10	80	10W	4000K	1000	277 V	GOTHAM EVO6VR SERIES COOPER FAIL-SAFE FLD6C SERIES CURRENT LTR-6RDVR SERIES	FA	
FB-I-EGS-F	CAST ALUMINUM PARKING LOT FIXTURE, FULL CUTOFF, TYPE I SHORT DISTRIBUTION, FORWARD EXTERNAL GLARE SHIELD, ONE HEAD, WET LOCATION LISTED, 22-FOOT TALL SQUARE NON-TAPERED STEEL POLE, POWDERCOAT, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD COLORS. PROVIDE POLE BASE PER DETAILS 'A' AND 'B' ON DRAWING E101.	POLE	51	70	51W/HEAD	4000K	6000/HEAD	277 V	LITHONIA DSX1 "D-SERIES" SERIES MCGRAW EDISON GALN "GALLEON II" SERIES BEACON VP1 "VIPER" SERIES	FB-I-EGS-F	
FB-V	SAME AS 'FB-I-EGS-F,' EXCEPT 14' POLE HEIGHT AND TYPE V WIDE DISTRIBUTION. PROVIDE POLE BASE PER DETAILS 'A' AND 'C' ON DRAWING E101.	POLE	51	70	51W/HEAD	4000K	6000/HEAD	277 V		FB-V	
FC-LCCO	CAST ALUMINUM PARKING LOT FIXTURE, FULL CUTOFF, LEFT CORNER CUTOFF DISTRIBUTION, ONE HEAD, WET LOCATION LISTED, 22-FOOT TALL SQUARE NON-TAPERED STEEL POLE, POWDERCOAT, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD COLORS. PROVIDE POLE BASE PER DETAILS 'A' AND 'B' ON DRAWING E101.	POLE	102	70	102W/HEAD	4000K	10000/HEAD	277 V	LITHONIA DSX1 "D-SERIES" SERIES MCGRAW EDISON GALN "GALLEON II" SERIES BEACON VP1 "VIPER" SERIES	FC-LCCO	
FC-RCCO	SAME AS FIXTURE TYPE 'FC-LCCO,' EXCEPT RIGHT CORNER CUTOFF DISTRIBUTION.	POLE	102	70	102W/HEAD	4000K	10000/HEAD	277 V		FC-RCCO	
FC-V-HS	SAME AS FIXTURE TYPE 'FC-LCCO,' EXCEPT TYPE V MEDIUM DISTRIBUTION WITH HOUSE SIDE SHIELD.	POLE	102	70	102W/HEAD	4000K	10000/HEAD	277 V		FC-V-HS	
FD-BLC4	CAST ALUMINUM PARKING LOT FIXTURE, FULL CUTOFF, TYPE IV DISTRIBUTION, EXTREME BACKLIGHT CONTROL, ONE HEAD, WET LOCATION LISTED, 22-FOOT TALL SQUARE NON-TAPERED STEEL POLE, POWDERCOAT, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD COLORS. PROVIDE POLE BASE PER DETAILS 'A' AND 'B' ON DRAWING E101.	POLE	220	70	220W/HEAD	4000K	22000/HEAD	277 V	LITHONIA DSX2 "D-SERIES" SERIES MCGRAW EDISON GALN "GALLEON II" SERIES BEACON VP2 "VIPER" SERIES	FD-BLC4	
FE-V	CAST ALUMINUM PARKING LOT FIXTURE, FULL CUTOFF, TYPE V WIDE DISTRIBUTION, ONE HEAD, WET LOCATION LISTED, 22-FOOT TALL SQUARE NON-TAPERED STEEL POLE, POWDERCOAT, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD COLORS. PROVIDE POLE BASE PER DETAILS 'A' AND 'B' ON DRAWING E101.	POLE	270	70	270W/HEAD	4000K	37000/HEAD	277 V	LITHONIA DSX2 "D-SERIES" SERIES MCGRAW EDISON GALN "GALLEON II" SERIES BEACON VP2 "VIPER" SERIES	FE-V	
FH	FLAGPOLE FIXTURE. 10-INCH ON-GRADE ADJUSTABLE FLOOD, WEATHERED IRON FINISH, MEDIUM FLOOD OPTICS (NEMA 5x5), WET LOCATION LISTED, IP67 RATED. VERIFY FINAL LOCATION AND FINISH WITH ARCHITECT PRIOR TO ROUGH-IN, PROVIDE FINAL AIMING. PROVIDE CONCRETE BASE PER DETAIL 'E' ON DRAWING E101.	ON-GRADE	49	70	49W	4000K	3500	277 V	VISTA 1059-WI-MF-40-E-MV-010 LIGMAN UOD SERIES HYDREL TPS2 SERIES	FH	
FJ	SIGN LIGHT FIXTURE. SAME AS FIXTURE 'FH,' EXCEPT HORIZONTAL FLOOD OPTICS AND ANTI-GLARE VISOR (HALF-SHIELD), VERIFY FINAL LOCATION AND FINISH WITH ARCHITECT PRIOR TO ROUGH-IN, PROVIDE FINAL AIMING.	ON-GRADE	49	70	49W	4000K	3500	277 V	VISTA 1059-WI SERIES LIGMAN UOD SERIES HYDREL TPS2 SERIES	FJ	
FM	ARCHITECTURAL WALL PACK, FULL CUTOFF, WET LOCATION LISTED, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD COLORS.	SURFACE WALL	25	70	25W	4000K	3000	277 V	EXO SG SERIES LITHONIA WPX SERIES LUMARK AXC SERIES	FM	
FN	SAME AS FIXTURE TYPE 'FM' EXCEPT LUMEN OUTPUT.	SURFACE WALL	50	70	50W	4000K	6000	277 V		FN	



SITE PLAN - ELECTRICAL

**RENOVATION LEGEND:** 

WORK TO BE INSTALLED

WORK TO REMAIN

### **GENERAL NOTES:**

- 1. SEE E001 FOR GENERAL NOTES.
- 2. CONNECT ALL WALL FIXTURES TO CIRCUIT INDICATED THROUGH LIGHTING RELAY PANEL IN MAIN ELECTRICAL ROOM. SEE E404.
- 3. SEE E101 FOR FIXTURE ELEVATIONS AND DETAILS.
- 3. SEE E101 FOR FIXTURE ELEVATIONS AND DETAILS

4. COORDINATE EXACT LOCATION OF LIGHT POLES WITH UNDERGROUND UTILITIES PRIOR TO ROUGH-IN.

5. ALL WIRING SHALL BE MINIMUM #6 AWG IN 1" C. CONTRACTOR RESPONSIBLE FOR MAINTAINING VOLTAGE DROP BELOW 3%

# RESPONSIBLE FOR MAINTAINING VOLTAGE DROP BELOW 3%. SITE LIGHTING CONTROLS:

- REFER TO EXTERIOR LIGHTING CONTROLS ON DRAWING E404.
- 2. ALL BUILDING MOUNTED EXTERIOR/EGRESS LIGHTS, FLAGPOLE LIGHTS, SIGN LIGHTS, AND POLE LIGHTS ADJACENT TO BUILDING SHALL OPERATE AT 100% OUTPUT FROM DUSK TO DAWN VIA RELAY PANEL CONTROL.
- 3. ALL POLE-MOUNTED LIGHTS SERVING PARKING LOTS AND DRIVES SHALL OPERATE AT 100% OUTPUT VIA RELAY PANEL CONTROL A. ON AT DUSK, OFF LATE AT NIGHT. B. ON BEFORE DAWN, OFF AT DAWN.
- 4. COORDINATE ALL CONTROL SETTINGS WITH OWNER.

### (#) PLAN NOTES:

- APPROXIMATE LIGHTING DISTRIBUTION SHAPE, TYPICAL.
- VERIFY EXACT LOCATION OF LIGHT FIXTURE WITH ARCHITECT & ENGINEER PRIOR TO ROUGH-IN. COORDINATE WITH BLOCK COURSING AND FINISHES.
- CONNECT CITY STANDARD STREETLIGHT FIXTURES TO EXISTING CITY EQUIPMENT AT NORTHWEST CORNER OF LANTERN ROAD AND MORGAN DRIVE. COORDINATE WITH CITY OF FISHERS PRIOR TO COMMENCING WORK. VERIFY.
- 4. CONNECT CITY STANDARD POLE-MOUNTED GFCI RECEPTACLES TO EXISTING CITY EQUIPMENT AT NORTHWEST CORNER OF LANTERN ROAD AND MORGAN DRIVE. COORDINATE WITH CITY OF FISHERS PRIOR TO COMMENCING WORK. VERIFY.
- CONNECT TO CIRCUIT INDICATED THROUGH LIGHTING RELAY PANEL IN MAIN ELECTRICAL ROOM D140.
- 6. PROVIDE TWO 4" UNDERGROUND SCH. 40 PVC CONDUITS FOR DUKE ENERGY PRIMARY CONDUCTORS. COORDINATE TERMINATION + ROUTING W/ DUKE.
- 7. PROVIDE CONCRETE PAD FOR DUKE ENERGY TRANSFORMER PER DUKE ENERGY PUBLICATION "THREE PHASE PAD-MOUNTED TRANSFORMER CONCRETE FOUNDATION SPECIFICATIONS" JANUARY, 2023. PROVIDE PROTECTIVE BOLLARDS IF REQUIRED BY DUKE, PER THEIR REQUIREMENTS.
- 8. INCOMING SECONDARY SERVICE. SEE E501.
- 9. SEE E201A AND E201D FOR LIGHTING DETAILS IN THIS AREA.

  10. PROVIDE TAMPER SWITCH AT POST INDICATOR VALVE (PIV). VERIFY
  EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE SURGE ARRESTERS ON
  ALL EXTERIOR CABLES. PROVIDE 1-INCH CONDUIT FROM TAMPER SWITCH





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**Dimo** d Associates Consulting Engineers 732 North Capitol Avenue Indianapolis, IN 46204 Phone: (317) 634-4672 www.redimond.com

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ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
11442 Lantern Rd, Fishers, IN 46038

SCOPE DRAWINGS:

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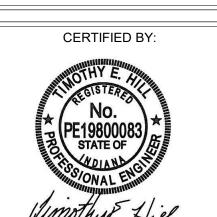
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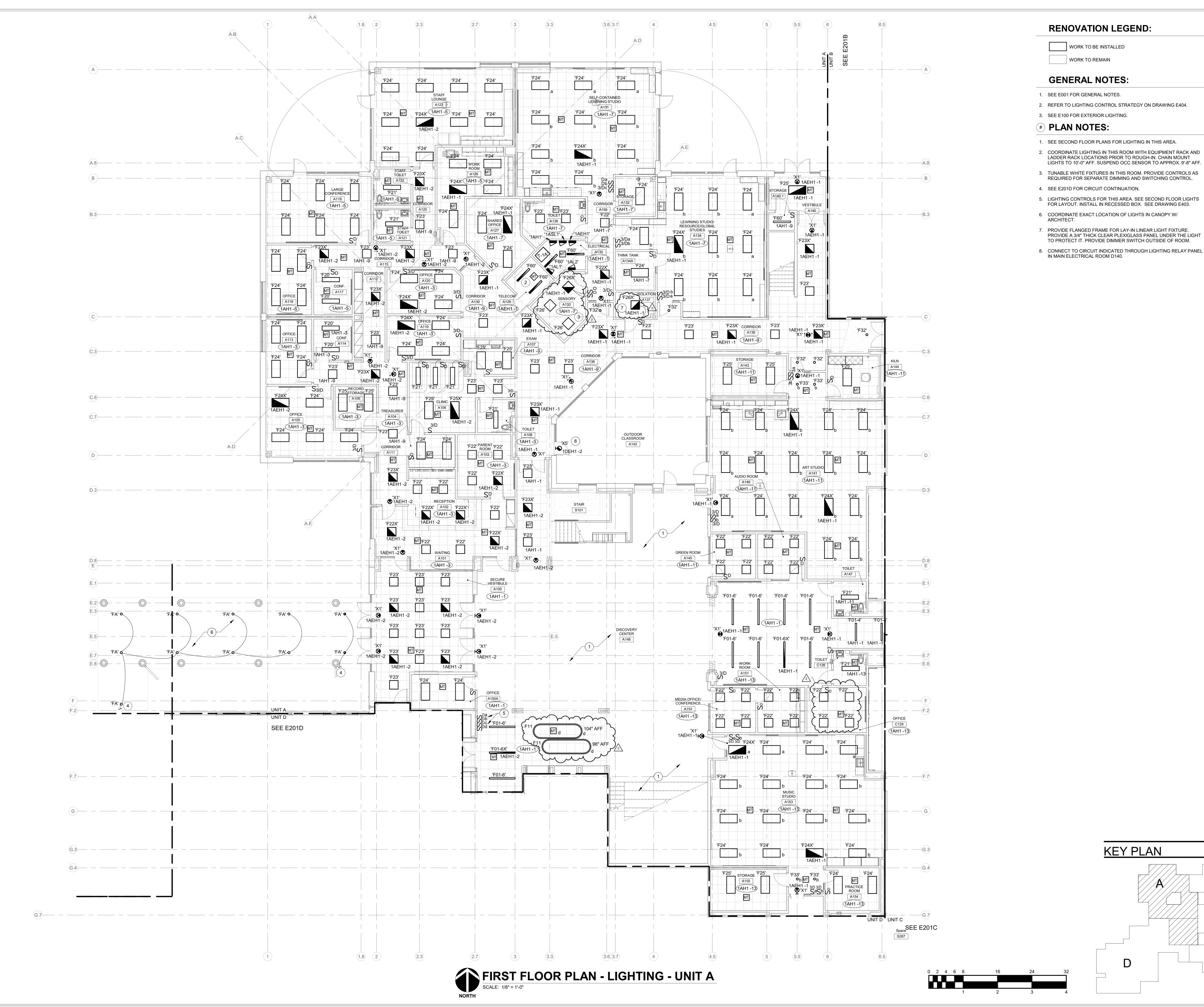
SITE PLAN -ELECTRICAL



DRAWING NUMBER
E100

PROJECT NUMBER 2021119

5 15 30 60 90 120



- 2. REFER TO LIGHTING CONTROL STRATEGY ON DRAWING E404.

- 3. TUNABLE WHITE FIXTURES IN THIS ROOM. PROVIDE CONTROLS AS
- 5. LIGHTING CONTROLS FOR THIS AREA. SEE SECOND FLOOR LIGHTS
- 7. PROVIDE FLANGED FRAME FOR LAY-IN LINEAR LIGHT FIXTURE. PROVIDE A 3/4" THICK CLEAR PLEXIGLASS PANEL UNDER THE LIGHT
- 8. CONNECT TO CIRCUIT INDICATED THROUGH LIGHTING RELAY PANEL

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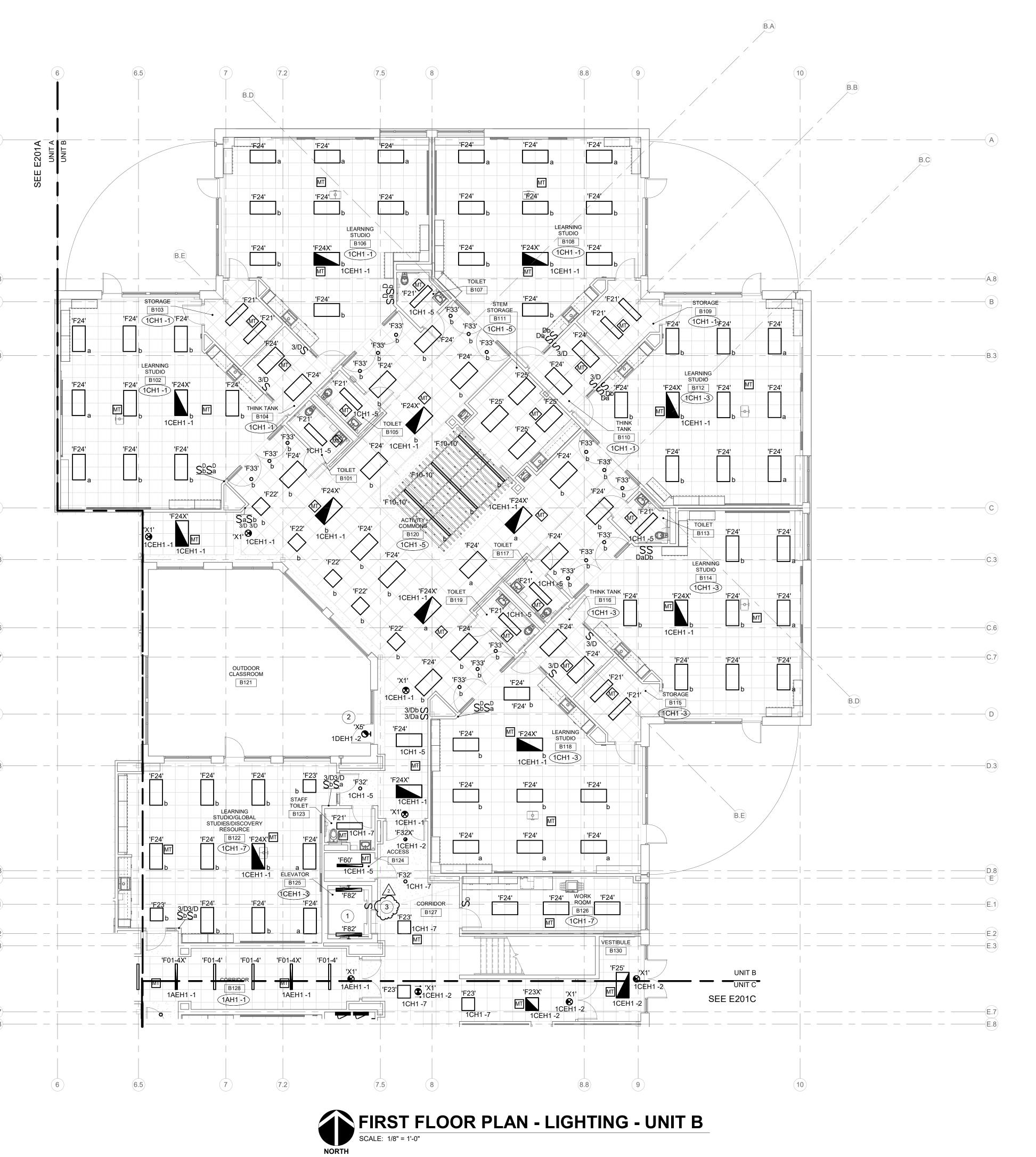
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DRAWING TITLE: FIRST FLOOR LIGHTING - UNIT



DRAWING NUMBER E201A PROJECT NUMBER 2021119



## **RENOVATION LEGEND:**

WORK TO BE INSTALLED

WORK TO REMAIN

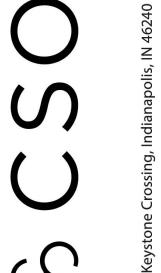
## **GENERAL NOTES:**

- 1. SEE E001 FOR GENERAL NOTES.
- 2. REFER TO LIGHTING CONTROL STRATEGY ON DRAWING E404.
- 3. SEE E100 FOR EXTERIOR LIGHTING.
- **# PLAN NOTES:**
- COORDINATE LOCATION OF ALL FIXTURES AND DEVICES IN THIS ROOM WITH ELEVATOR INSTALLER AND MANUFACTURER PRIOR TO ROUGH-IN.
- 2. CONNECT TO CIRCUIT INDICATED THROUGH LIGHTING RELAY PANEL IN MAIN ELECTRICAL ROOM. SEE E404.

3. PROVIDE 'F32' LIGHT & SWITCH IN FRONT OF ELEVATOR ON DEDICATED CIRCUIT AS DIRECTED BY ELEVATOR INSTALLER.









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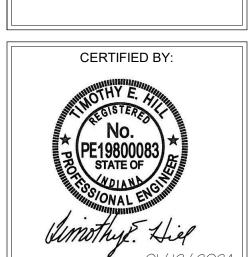
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Addendum#2 02/02/2024

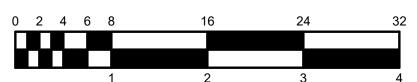
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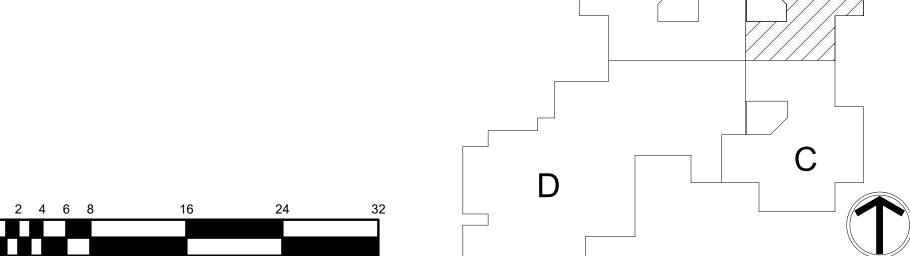
DRAWING TITLE: FIRST FLOOR LIGHTING - UNIT

01/15/24 GSR

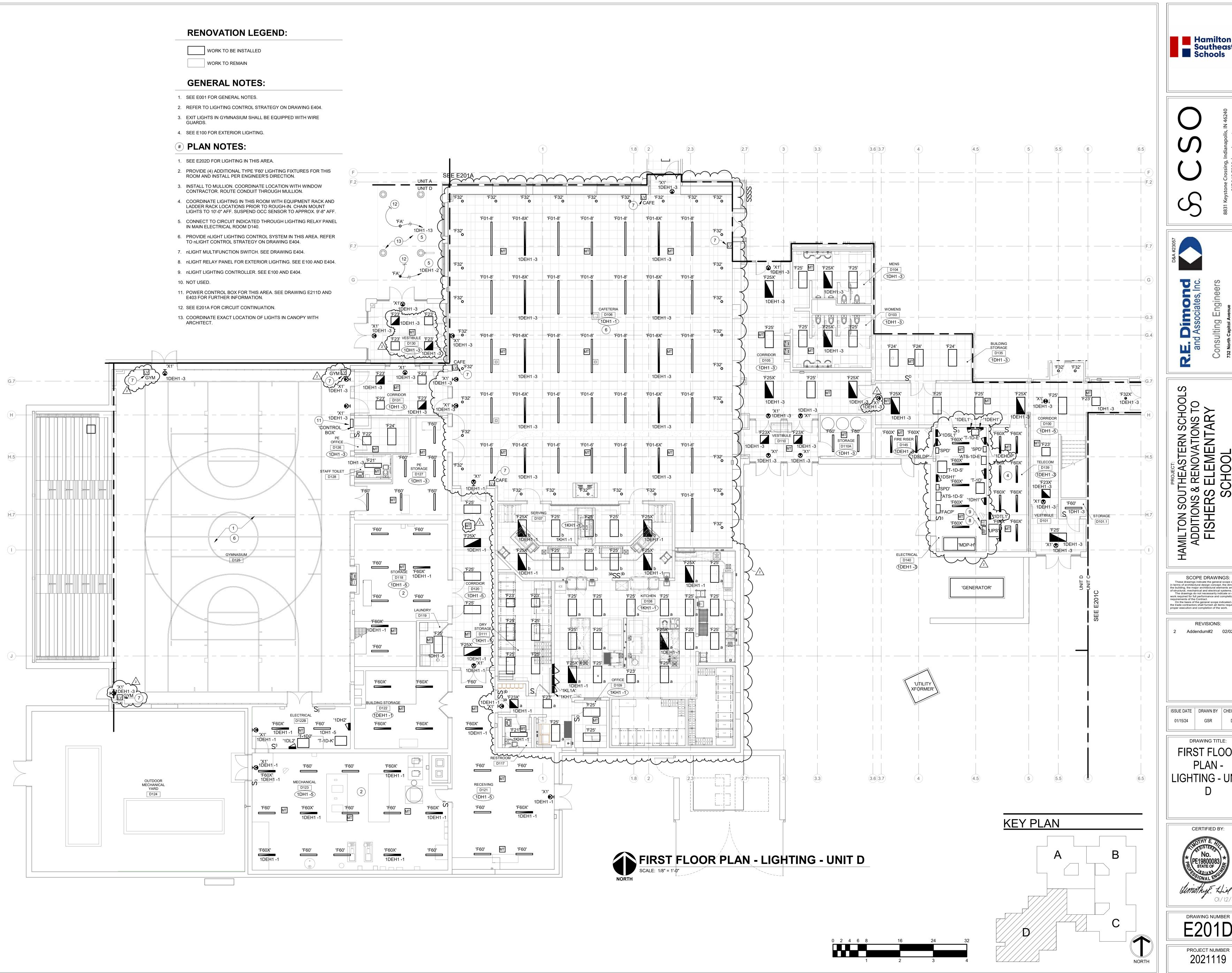


DRAWING NUMBER E201B PROJECT NUMBER 2021119





KEY PLAN







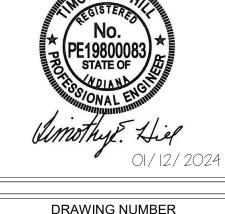
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**REVISIONS:** Addendum#2 02/02/2024

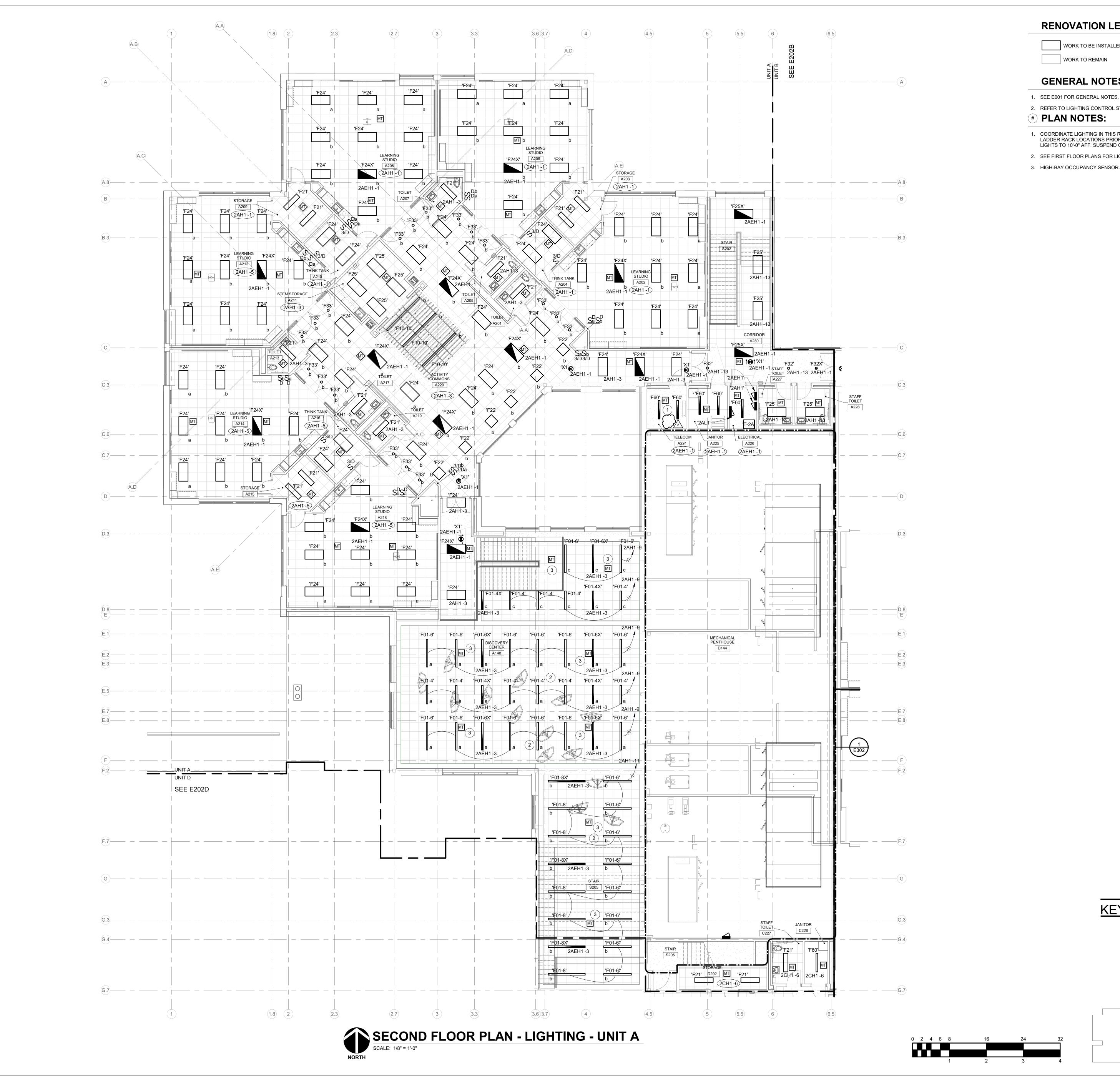
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DRAWING TITLE: FIRST FLOOR LIGHTING - UNIT

CERTIFIED BY:



DRAWING NUMBER E201D



#### **RENOVATION LEGEND:**

WORK TO BE INSTALLED

WORK TO REMAIN

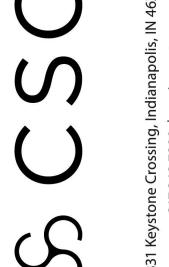
### **GENERAL NOTES:**

- 2. REFER TO LIGHTING CONTROL STRATEGY ON DRAWING E404.
- **# PLAN NOTES:**
- COORDINATE LIGHTING IN THIS ROOM WITH EQUIPMENT RACK AND LADDER RACK LOCATIONS PRIOR TO ROUGH-IN. CHAIN MOUNT LIGHTS TO 10'-0" AFF. SUSPEND OCC SENSOR TO APPROX. 9'-8" AFF.
- 2. SEE FIRST FLOOR PLANS FOR LIGHTING CONTROL IN THIS AREA.

KEY PLAN

3. HIGH-BAY OCCUPANCY SENSOR.

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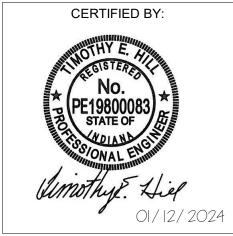
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**REVISIONS:** Addendum#2 02/02/2024

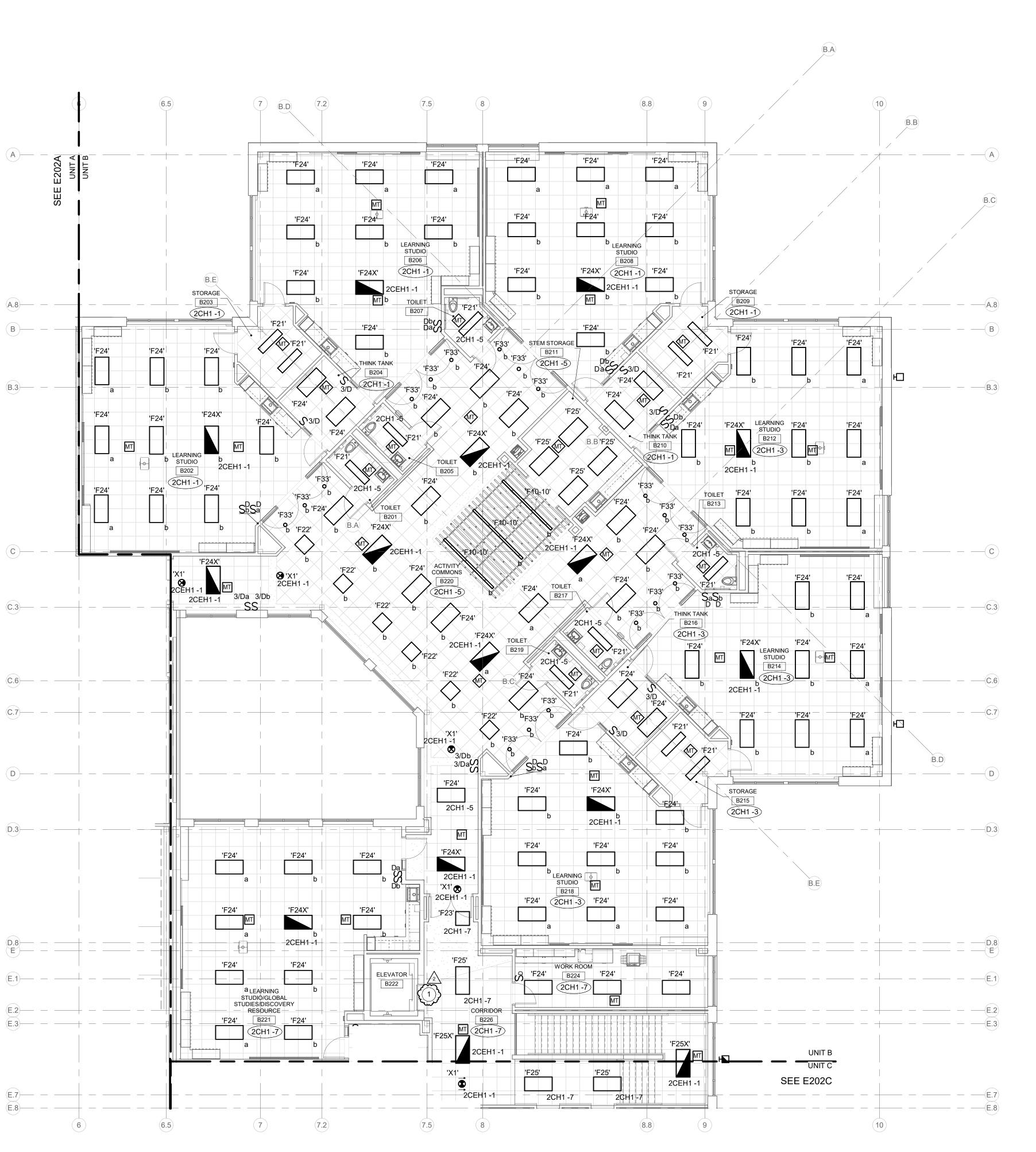
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DRAWING TITLE: SECOND FLOOR LIGHTING - UNIT





DRAWING NUMBER E202A PROJECT NUMBER 2021119



SECOND FLOOR PLAN - LIGHTING - UNIT B

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



WORK TO BE INSTALLED

WORK TO REMAIN

#### **GENERAL NOTES:**

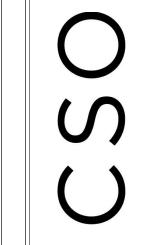
1. SEE E001 FOR GENERAL NOTES.

2. REFER TO LIGHTING CONTROL STRATEGY ON DRAWING E404.

# PLAN NOTES: PROVIDE 'F60' LIGHT ABOVE ELEVATOR & 'F32' LIGHT IN FRONT OF ELEVATOR, ON DEDICATED CIRCUIT & LIGHT SWITCHES, AS DIRECTED BY ELEVATOR INSTALLER.

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SCOPE DRAWINGS:

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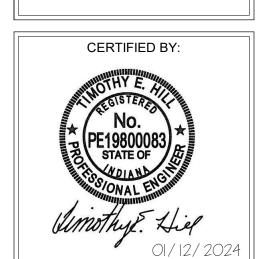
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DRAWING TITLE: SECOND FLOOR PLAN -LIGHTING - UNIT

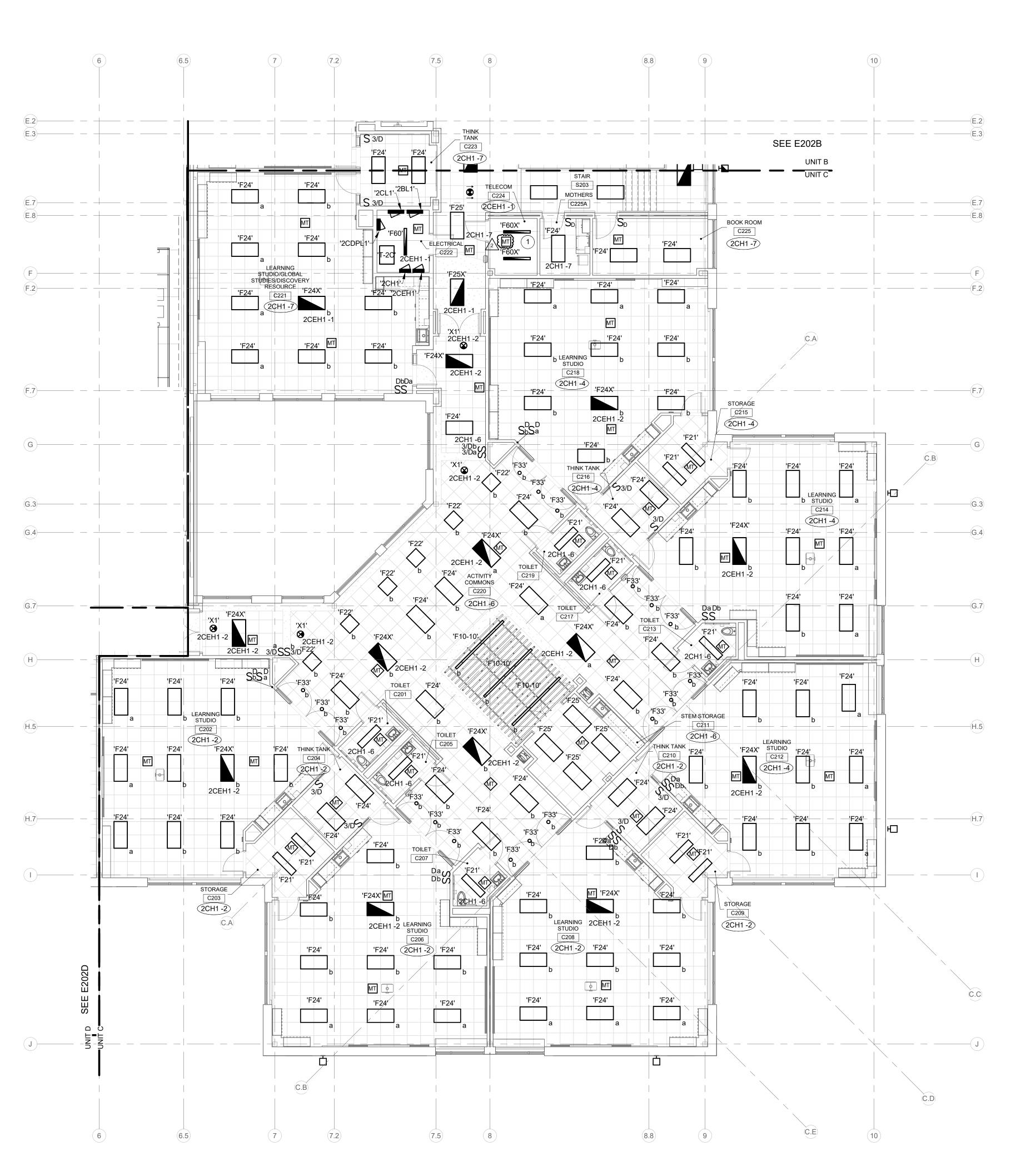


DRAWING NUMBER E202B

PROJECT NUMBER 2021119



KEY PLAN



SECOND FLOOR PLAN - LIGHTING - UNIT C
SCALE: 1/8" = 1'-0"



WORK TO BE INSTALLED

WORK TO REMAIN

#### **GENERAL NOTES:**

1. SEE E001 FOR GENERAL NOTES. 2. REFER TO LIGHTING CONTROL STRATEGY ON DRAWING E404.

#### **# PLAN NOTES:**

COORDINATE LIGHTING IN THIS ROOM WITH EQUIPMENT RACK AND LADDER RACK LOCATIONS PRIOR TO ROUGH-IN. CHAIN MOUNT LIGHTS TO 10'-0" AFF. SUSPEND OCC SENSOR TO APPROX. 9'-8" AFF.

KEY PLAN







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SCOPE DRAWINGS:

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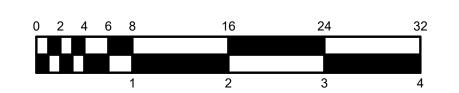
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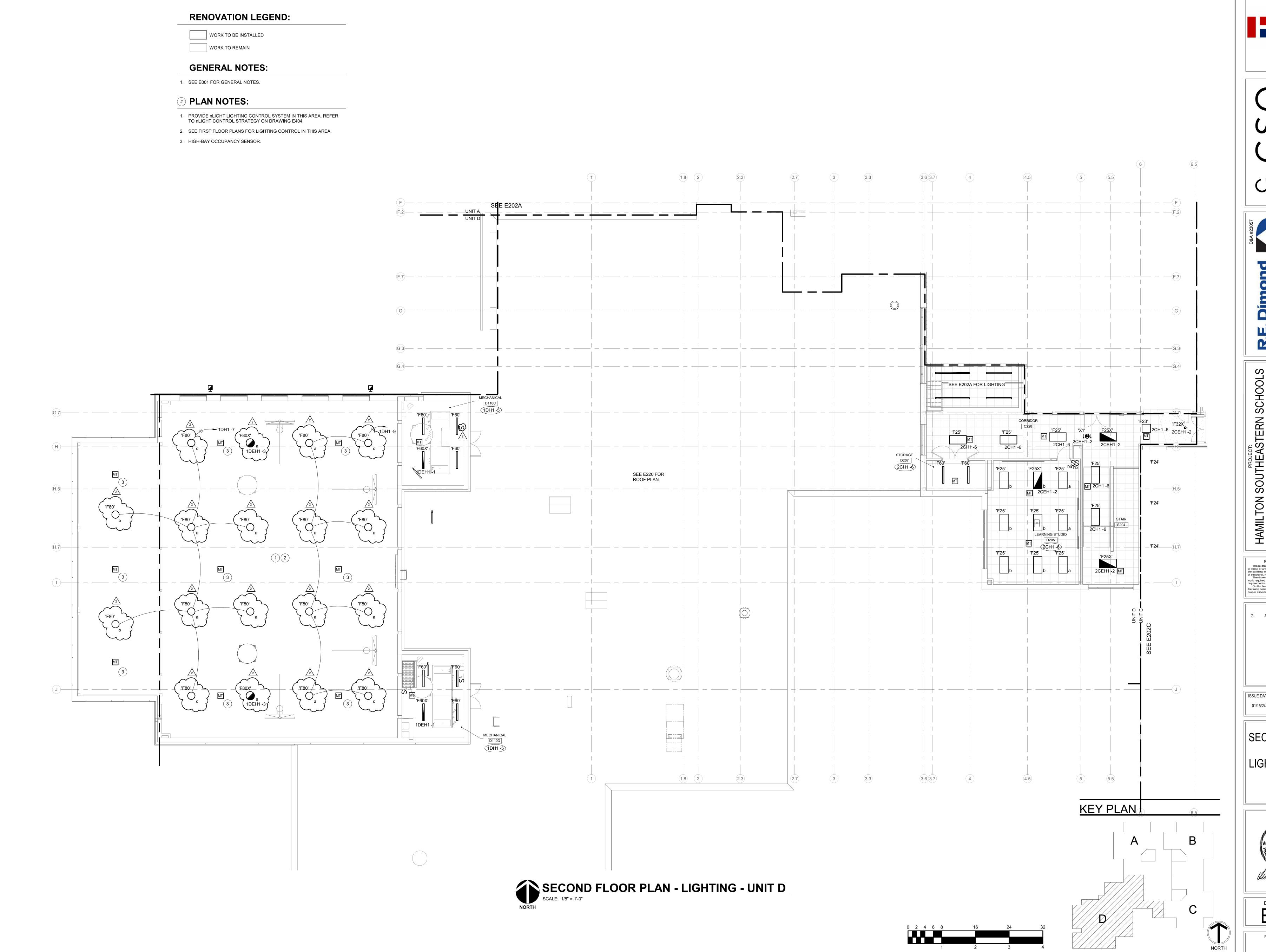
01/15/24 GSR DRAWING TITLE:

LIGHTING - UNIT

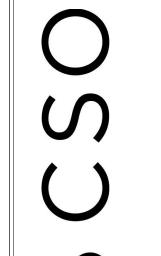


DRAWING NUMBER E202C













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SCHOOL
11442 Lantern Rd, Fishers, IN 46038

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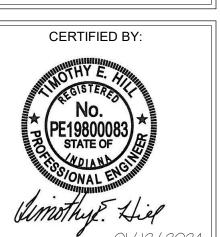
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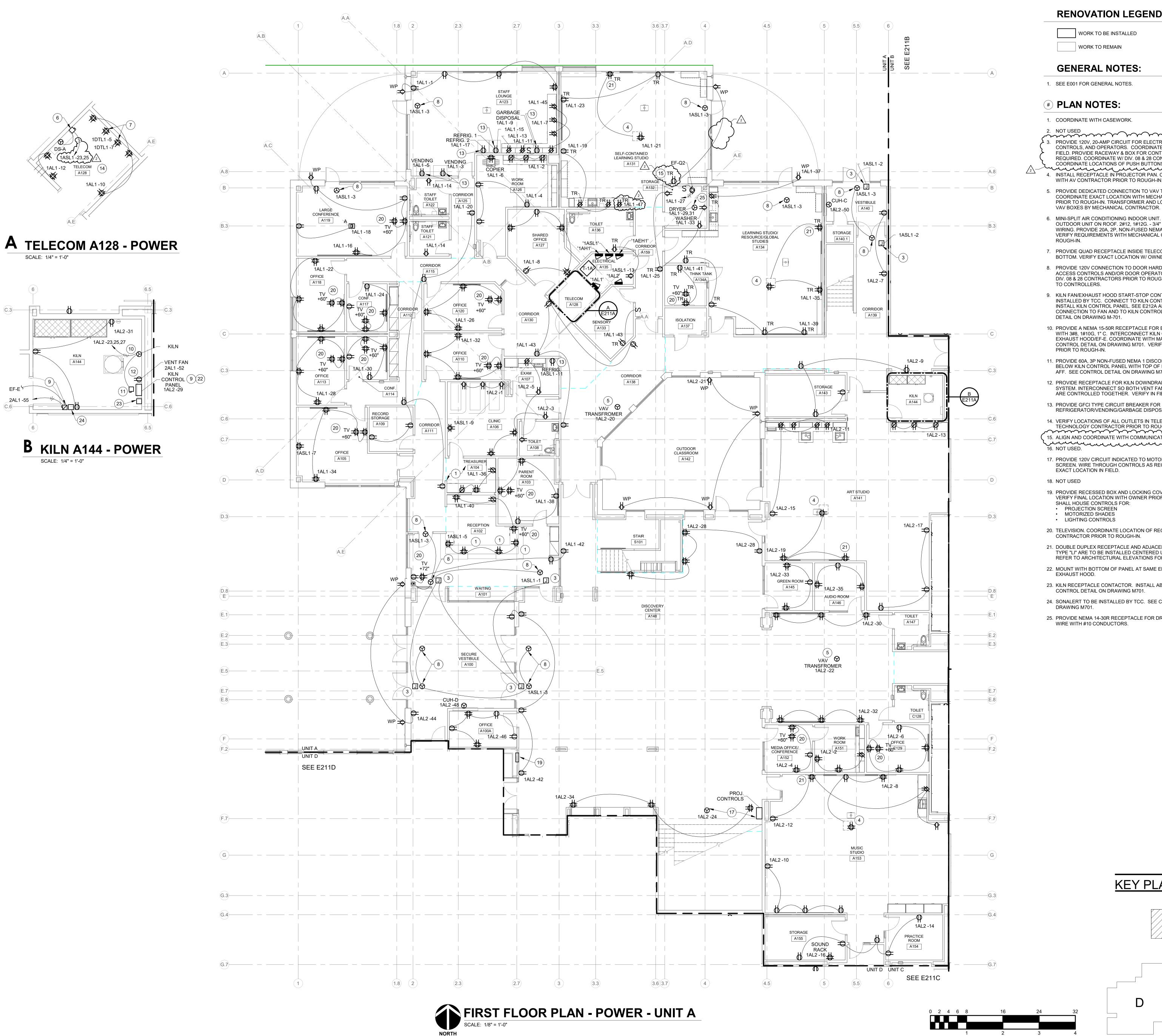
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2 Addendum#2 02/02/2024

ISSUE DATE DRAWN BY CHECKED BY
01/15/24 GSR DEW

SECOND FLOOR
PLAN LIGHTING - UNIT





SCALE: 1/4" = 1'-0"

**RENOVATION LEGEND:** 

WORK TO BE INSTALLED

WORK TO REMAIN

**GENERAL NOTES:** 

1. SEE E001 FOR GENERAL NOTES.

#### **# PLAN NOTES:**

1. COORDINATE WITH CASEWORK.

2. NOT USED CONTROLS, AND OPERATORS. COORDINATE EXACT CONNECTION IN FIELD. PROVIDE RACEWAY & BOX FOR CONTROL BUTTONS AS REQUIRED. COORDINATE W/ DIV. 08 & 28 CONTRACTORS. COORDINATE LOCATIONS OF PUSH BUTTONS.

- 4. INSTALL RECEPTACLE IN PROJECTOR PAN. COORDINATE LOCATION WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
- 5. PROVIDE DEDICATED CONNECTION TO VAV TRANSFORMER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. TRANSFORMER AND LOW VOLTAGE WIRING TO
- 6. MINI-SPLIT AIR CONDITIONING INDOOR UNIT. POWER FROM OUTDOOR UNIT ON ROOF. 2#12, 1#12G. - 3/4" C PLUS CONTROL WIRING. PROVIDE 20A, 2P, NON-FUSED NEMA 1 DISCONNECT SWITCH. VERIFY REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO
- 7. PROVIDE QUAD RECEPTACLE INSIDE TELECOM CABINET NEAR BOTTOM. VERIFY EXACT LOCATION W/ OWNER.
- 8. PROVIDE 120V CONNECTION TO DOOR HARDWARE POWER SUPPLY, ACCESS CONTROLS AND/OR DOOR OPERATORS. COORDINATE W/ DIV. 08 & 28 CONTRACTORS PRIOR TO ROUGH-IN. PROVIDE WIRING TO CONTROLLERS.
- 9. KILN FAN/EXHAUST HOOD START-STOP CONTROL STATION INSTALLED BY TCC. CONNECT TO KILN CONTROL PANEL. E.C. TO INSTALL KILN CONTROL PANEL. SEE E212A AND E220. COORDINATE CONNECTION TO FAN AND TO KILN CONTROLS. SEE CONTROL DETAIL ON DRAWING M-701.
- 10. PROVIDE A NEMA 15-50R RECEPTACLE FOR ELECTRIC KILN. WIRE WITH 3#8, 1#10G, 1" C. INTERCONNECT KILN CONTROLS TO KILN EXHAUST HOOD/EF-E. COORDINATE WITH MANUFACTURER. SEE CONTROL DETAIL ON DRAWING M701. VERIFY ALL REQUIREMENTS PRIOR TO ROUGH-IN.
- 11. PROVIDE 60A, 3P NON-FUSED NEMA 1 DISCONNECT SWITCH. MOUNT BELOW KILN CONTROL PANEL WITH TOP OF ENCLOSURE AT 5-FOOT AFF. SEE CONTROL DETAIL ON DRAWING M701.
- 12. PROVIDE RECEPTACLE FOR KILN DOWNDRAFT VENTILATION SYSTEM. INTERCONNECT SO BOTH VENT FAN AND EXHAUST FAN ARE CONTROLLED TOGETHER. VERIFY IN FIELD.
- 13. PROVIDE GFCI TYPE CIRCUIT BREAKER FOR REFRIGERATOR/VENDING/GARBAGE DISPOSAL.
- 14. VERIFY LOCATIONS OF ALL OUTLETS IN TELECOM ROOM WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. 15. ALIGN AND COORDINATE WITH COMMUNICATION DEVICES ABOVE. Circuman Commence
- 17. PROVIDE 120V CIRCUIT INDICATED TO MOTORIZED PROJECTION SCREEN. WIRE THROUGH CONTROLS AS REQUIRED. COORDINATE
- 18. NOT USED
- 19. PROVIDE RECESSED BOX AND LOCKING COVER. SEE DRAWING E403. VERIFY FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN. BOX SHALL HOUSE CONTROLS FOR: PROJECTION SCREEN
- MOTORIZED SHADES LIGHTING CONTROLS
- 20. TELEVISION. COORDINATE LOCATION OF RECEPTACLE WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
- 21. DOUBLE DUPLEX RECEPTACLE AND ADJACENT TELECOM OUTLET TYPE "LI" ARE TO BE INSTALLED CENTERED UNDER TACKBOARD. REFER TO ARCHITECTURAL ELEVATIONS FOR MORE INFORMATION.
- 22. MOUNT WITH BOTTOM OF PANEL AT SAME ELEVATION AS KILN EXHAUST HOOD.
- 23. KILN RECEPTACLE CONTACTOR. INSTALL ABOVE CEILING. SEE
- CONTROL DETAIL ON DRAWING M701.
- 24. SONALERT TO BE INSTALLED BY TCC. SEE CONTROL DETAIL ON DRAWING M701.
- 25. PROVIDE NEMA 14-30R RECEPTACLE FOR DRYER. 30A, 120/208V, 4W. WIRE WITH #10 CONDUCTORS.

KEY PLAN

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732 North Capitol Av
Indianapolis, IN 4620
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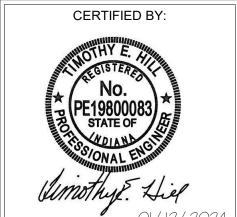
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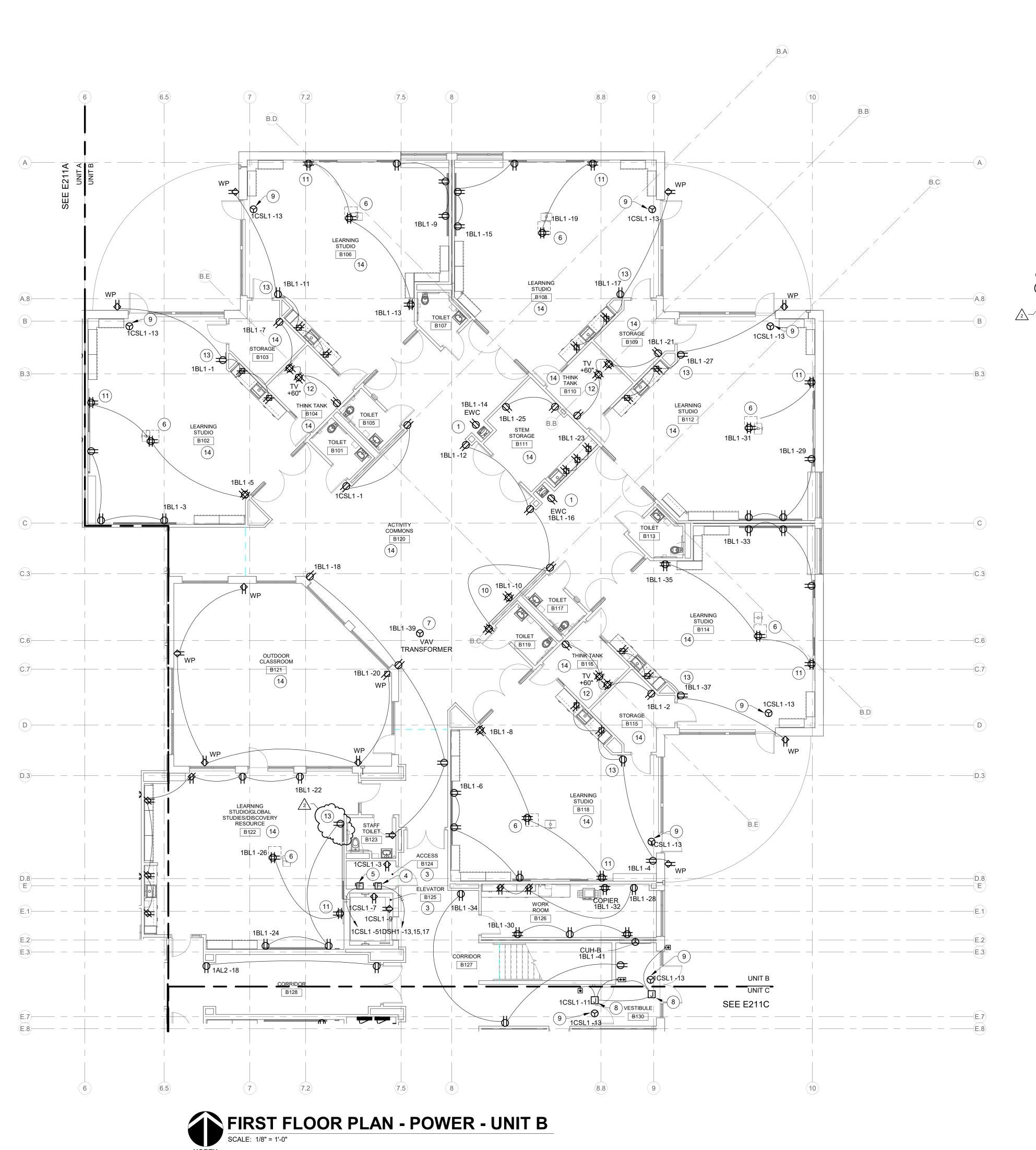
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01/15/24

DRAWING TITLE: FIRST FLOOR PLAN - POWER -



DRAWING NUMBER E211A



#### **RENOVATION LEGEND:**

WORK TO BE INSTALLED

WORK TO REMAIN

#### **GENERAL NOTES:**

1. SEE E001 FOR GENERAL NOTES.

#### **# PLAN NOTES:**

- 1. PROVIDE RECEPTACLE CONCEALED IN EWC HOUSING. COORDINATE LOCATION WITH EWC INSTALLER PRIOR TO ROUGH-IN. PROVIDE GFCI TYPE CIRCUIT BREAKER.
- 2. NOT USED.
- 3. COORDINATE LOCATION OF ALL FIXTURES AND DEVICES IN THIS ROOM WITH ELEVATOR INSTALLER AND MANUFACTURER PRIOR TO ROUGH-IN.
- 4. PROVIDE A LOCKABLE 480V, 200A, FUSED DISCONNECT IN A NEMA 1 ENCLOSURE FOR ELEVATOR. FUSE PER MANUFACTURER'S RECOMMENDATIONS. VERIFY REQUIREMENTS WITH MANUFACTURER. SEE E501 FOR FEEDER.
- 5. PROVIDE A LOCKABLE 120V, 30A, 1P FUSED DISCONNECT IN A NEMA 1 ENCLOSURE FOR ELEVATOR CAB LIGHTING. FUSE AT 20 AMPS. VERIFY REQUIREMENTS WITH MANUFACTURER.
- 6. INSTALL RECEPTACLE IN PROJECTOR PAN. COORDINATE LOCATION WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
- 7. PROVIDE DEDICATED CONNECTION TO VAV TRANSFORMER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. TRANSFORMER AND LOW VOLTAGE WIRING TO
- VAV BOXES BY MECHANICAL CONTRACTOR.

  8. PROVIDE 120V CIRCUIT FOR ELECTRIFIED DOOR HARDWARE AND OPERATORS. COORDINATE CONNECTION TO POWER SUPPLY ABOVE DOORWAY. COORDINATE WITH DIV. 08 & 28 CONTRACTORS. COORDINATE LOCATIONS OF PUSH BUTTONS. 9. PROVIDE 120V CONNECTION TO DOOR HARDWARE POWER SUPPLY,
- ACCESS CONTROLS AND/OR DOOR OPERATORS. COORDINATE WITH DIV. 08 & 28 CONTRACTORS PRIOR TO ROUGH-IN. PROVIDE WIRING TO CONTROLLERS
- WALL-MOUNT PROJECTOR. COORDINATE LOCATION OF RECEPTACLE WITH AV CONTRACTOR PRIOR TO ROUGH-IN. 11. DOUBLE DUPLEX RECEPTACLE AND ADJACENT TELECOM OUTLET
- REFER TO ARCHITECTURAL ELEVATIONS FOR MORE INFORMATION. 12. TELEVISION. COORDINATE LOCATION OF RECEPTACLE WITH AV

TYPE "LI" ARE TO BE INSTALLED CENTERED UNDER TACKBOARD.

- CONTRACTOR PRIOR TO ROUGH-IN. 13. ALIGN AND COORDINATE WITH COMMUNICATION DEVICES ABOVE.
- 14. ALL RECEPTACLES IN THIS ROOM SHALL BE TAMPER RESISTANT

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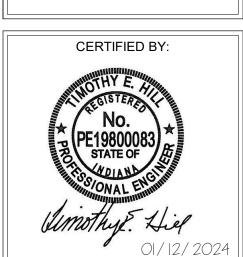
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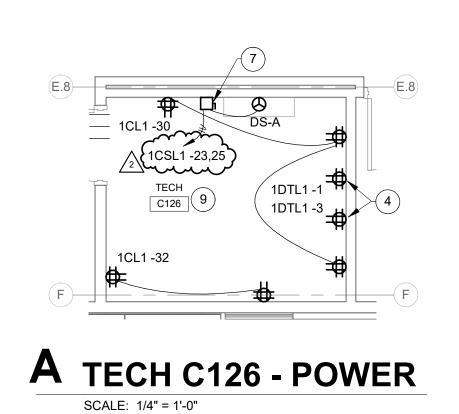
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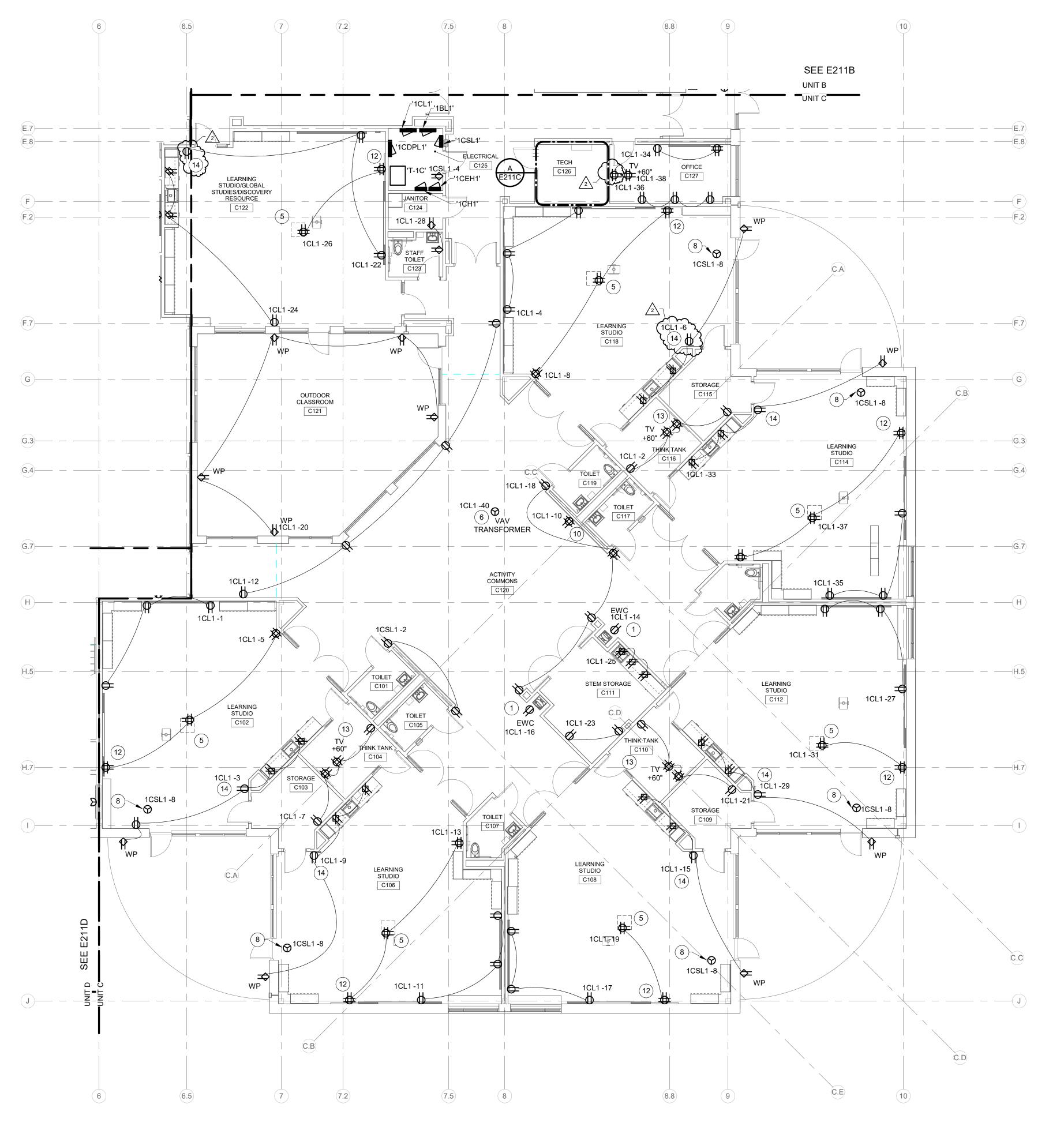
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DRAWING TITLE: FIRST FLOOR PLAN - POWER -UNIT B



DRAWING NUMBER E211B PROJECT NUMBER 2021119





FIRST FLOOR PLAN - POWER - UNIT C

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



WORK TO BE INSTALLED WORK TO REMAIN

#### **GENERAL NOTES:**

1. SEE E001 FOR GENERAL NOTES.

#### **# PLAN NOTES:**

- PROVIDE RECEPTACLE CONCEALED IN EWC HOUSING. COORDINATE LOCATION WITH EWC INSTALLER PRIOR TO ROUGH-IN. PROVIDE GFCI TYPE CIRCUIT BREAKER.
- 2. NOT USED.
- 3. PROVIDE 120V CIRCUIT FOR ELECTRIFIED DOOR HARDWARE. COORDINATE CONNECTION TO POWER SUPPLY ABOVE DOORWAY. COORDINATE W/ DIV. 08 & 28 CONTRACTORS.
- 4. PROVIDE QUAD RECEPTACLE INSIDE TELECOM CABINET, NEAR BOTTOM. VERIFY EXACT LOCATION W/ OWNER.
- 5. INSTALL RECEPTACLE IN PROJECTOR PAN. COORDINATE LOCATION WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
- 6. PROVIDE DEDICATED CONNECTION TO VAV TRANSFORMER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. TRANSFORMER AND LOW VOLTAGE WIRING TO
- VAV BOXES BY MECHANICAL CONTRACTOR. 7. MINI-SPLIT AIR CONDITIONING INDOOR UNIT. POWER FROM OUTDOOR UNIT ON ROOF. 2#12, 1#12G. - 3/4" C PLUS CONTROL WIRING. PROVIDE 20A, 2P, NON-FUSED NEMA 1 DISCONNECT SWITCH. VERIFY REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO
- 8. PROVIDE 120V CONNECTION TO DOOR HARDWARE POWER SUPPLY, ACCESS CONTROLS, AND/OR DOOR OPERATORS. COORDINATE W/ DIV 08 & 28 CONTRACTORS PRIOR TO ROUGH-IN. PROVIDE WIRING TO CONTROLLERS.
- 9. VERIFY LOCATIONS OF ALL OUTLETS IN TELECOM ROOM WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
- 10. WALL-MOUNT PROJECTOR. COORDINATE LOCATION OF RECEPTACLE WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
- 11. VON DUPRIN POWER SUPPLY, PS914. PROVIDE COMPLETE WITH (2) 900-4RL OPTION BOARDS. WALL MOUNT +60" AFF TO TOP OF ENCLOSURE. CONNECT TO 120V, 20A CIRCUIT INDICATED.
- 12. DOUBLE DUPLEX RECEPTACLE AND ADJACENT TELECOM OUTLET TYPE "LI" ARE TO BE INSTALLED CENTERED UNDER TACKBOARD. REFER TO ARCHITECTURAL ELEVATIONS FOR MORE INFORMATION.
- 13. TELEVISION. COORDINATE LOCATION OF RECEPTACLE WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
- 14. ALIGN & COORDINATE WITH COMMUNICATION DEVICE ABOVE.







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**REVISIONS:** Addendum#2 02/02/2024

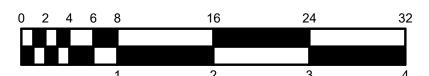
ISSUE DATE | DRAWN BY | CHECKED BY

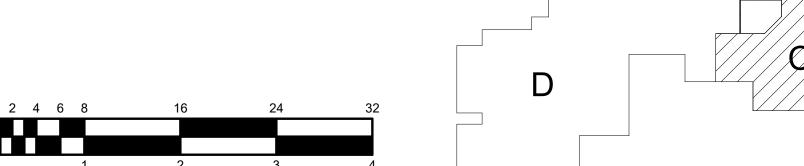
GSR

DRAWING TITLE: FIRST FLOOR PLAN - POWER -UNIT C

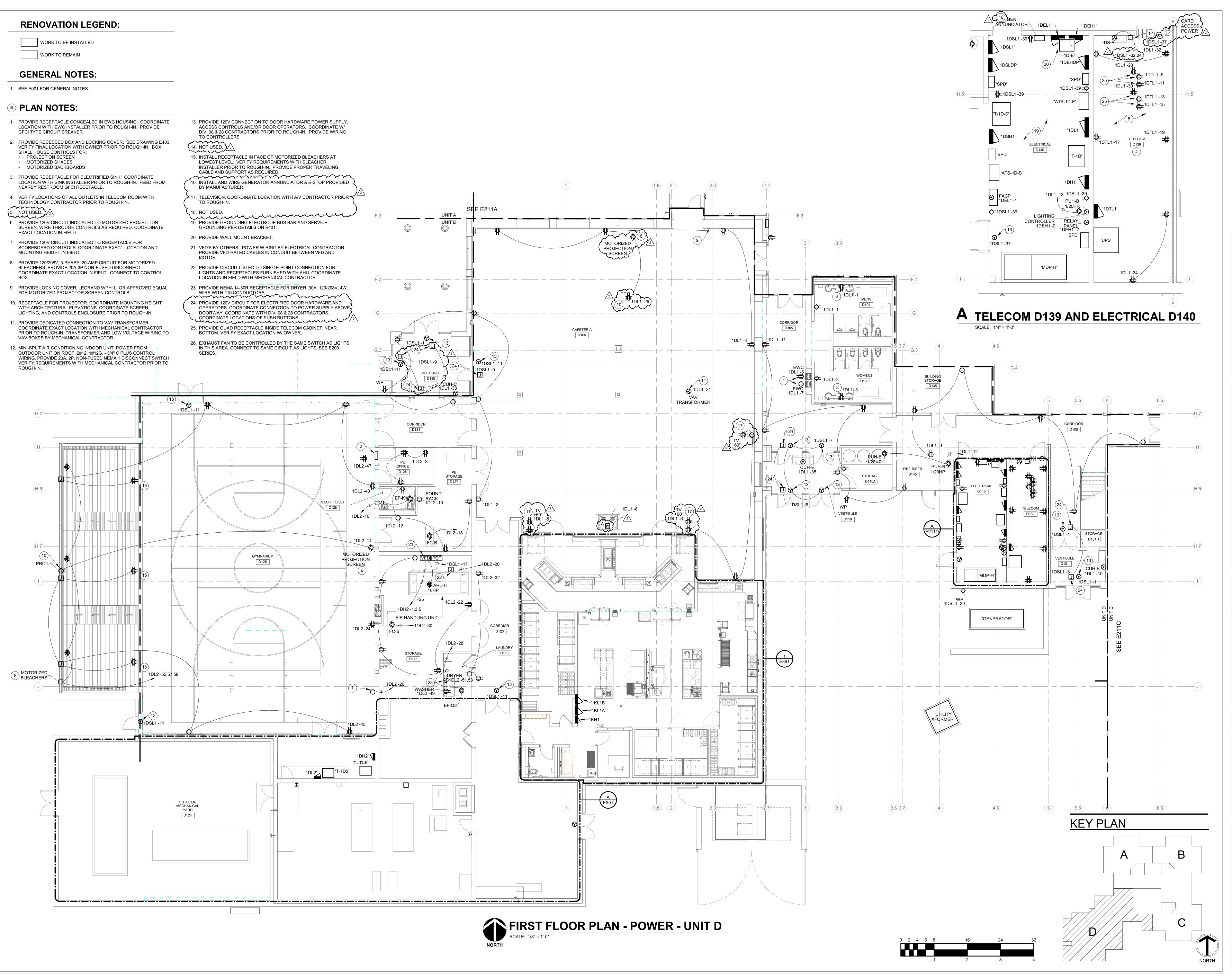


DRAWING NUMBER E211C PROJECT NUMBER 2021119





KEY PLAN









R.E. Dimond
and Associates, Inc.
Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (347) 634-4672
www.redimond.com

HAMILTON SOUTHEASTERN SCHOOD ADDITIONS & RENOVATIONS TO SELEMENTARY SCHOOL SCHOOL

7

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

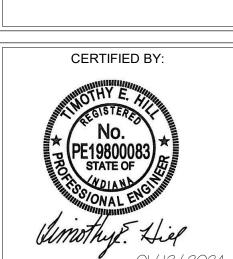
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REVISIONS:
Addendum#2 02/02/2024

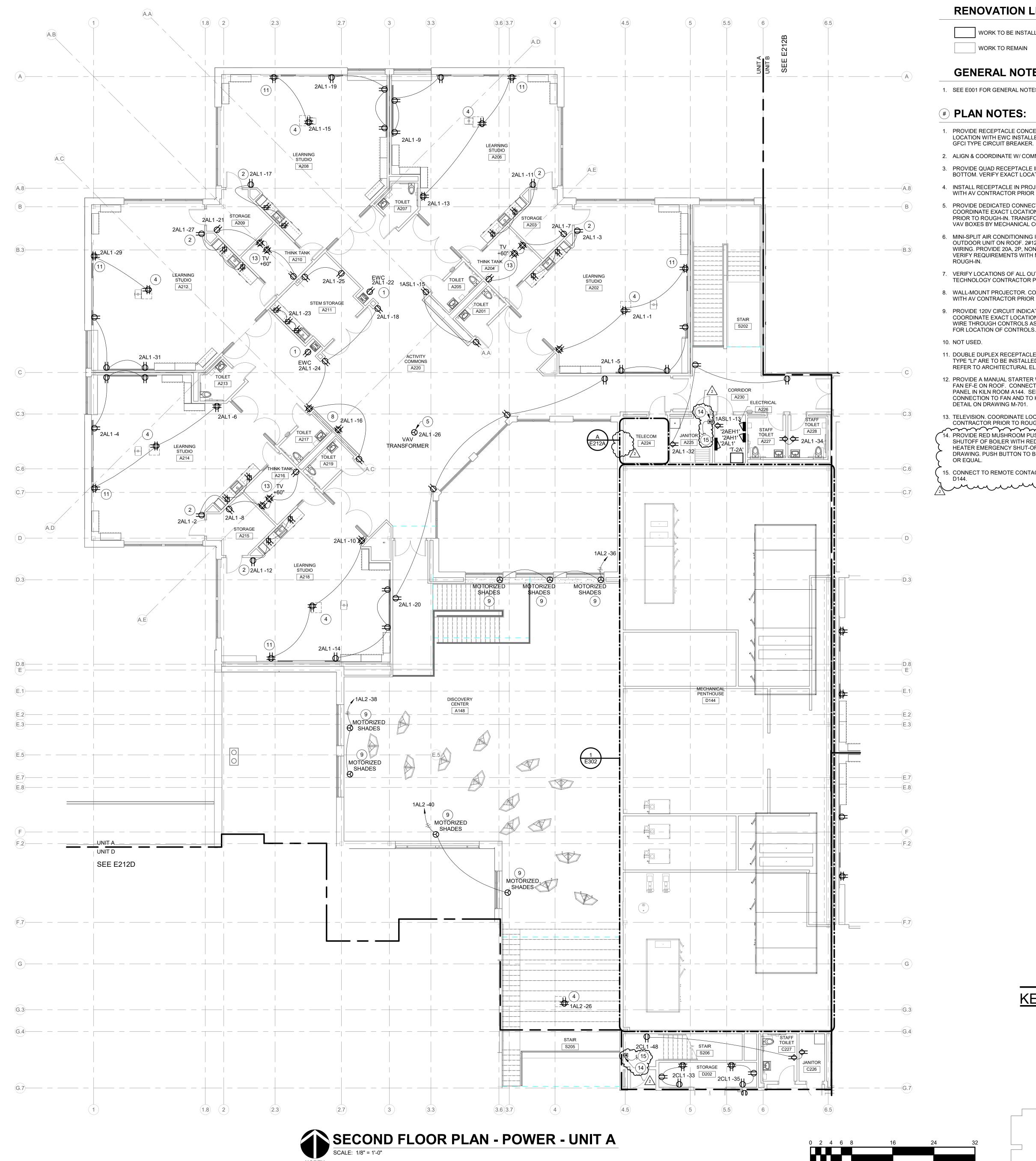
ISSUE DATE DRAWN BY CHECKED BY 01/15/24 GSR DEW

FIRST FLOOR
PLAN - POWER UNIT D



DRAWING NUMBER
E211D

PROJECT NUMBER
2021119



A TELECOM A224 - POWER

SCALE: 1/4" = 1'-0"

#### **RENOVATION LEGEND:**

WORK TO BE INSTALLED

WORK TO REMAIN

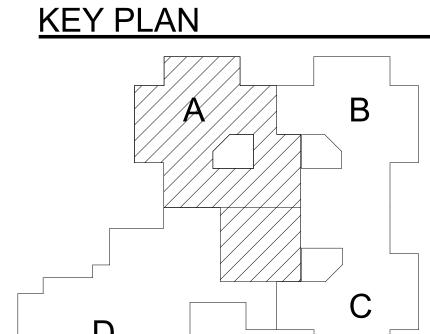
#### **GENERAL NOTES:**

1. SEE E001 FOR GENERAL NOTES.

#### **# PLAN NOTES:**

- PROVIDE RECEPTACLE CONCEALED IN EWC HOUSING. COORDINATE LOCATION WITH EWC INSTALLER PRIOR TO ROUGH-IN. PROVIDE
- 2. ALIGN & COORDINATE W/ COMMUNICATION DEVICE ABOVE.
- 3. PROVIDE QUAD RECEPTACLE INSIDE TELECOM CABINET NEAR BOTTOM. VERIFY EXACT LOCATION W/ OWNER.
- 4. INSTALL RECEPTACLE IN PROJECTOR PAN. COORDINATE LOCATION WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE DEDICATED CONNECTION TO VAV TRANSFORMER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. TRANSFORMER AND LOW VOLTAGE WIRING TO VAV BOXES BY MECHANICAL CONTRACTOR.
- 6. MINI-SPLIT AIR CONDITIONING INDOOR UNIT. POWER FROM OUTDOOR UNIT ON ROOF. 2#12, 1#12G. - 3/4" C PLUS CONTROL WIRING. PROVIDE 20A, 2P, NON-FUSED NEMA 1 DISCONNECT SWITCH. VERIFY REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO
- 7. VERIFY LOCATIONS OF ALL OUTLETS IN TELECOM ROOM WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
- 8. WALL-MOUNT PROJECTOR. COORDINATE LOCATION OF RECEPTACLE WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
- 9. PROVIDE 120V CIRCUIT INDICATED TO MOTORIZED SHADES. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT IN FIELD.
  WIRE THROUGH CONTROLS AS REQUIRED. SEE FIRST FLOOR PLANS FOR LOCATION OF CONTROLS.
- 11. DOUBLE DUPLEX RECEPTACLE AND ADJACENT TELECOM OUTLET TYPE "LI" ARE TO BE INSTALLED CENTERED UNDER TACKBOARD. REFER TO ARCHITECTURAL ELEVATIONS FOR MORE INFORMATION.
- 12. PROVIDE A MANUAL STARTER WITH PILOT LIGHT FOR KILN EXHAUST FAN EF-E ON ROOF. CONNECT TO OPERATE FROM KILN CONTROL PANEL IN KILN ROOM A144. SEE E211A AND E220. COORDINATE CONNECTION TO FAN AND TO KILN CONTROLS. SEE CONTROL DETAIL ON DRAWING M-701.
- 13. TELEVISION. COORDINATE LOCATION OF RECEPTACLE WITH AV CONTRACTOR PRIOR TO ROUGH-IN.

  14. PROVIDE RED MUSHROOM PUSH BUTTON FOR EMERGENCY SHUTOFF OF BOILER WITH RED LABEL: "CONDENSING BOILER/WATER HEATER EMERGENCY SHUT-OFF." SEE SCHEMATIC ON THIS DRAWING. PUSH BUTTON TO BE STI STOPPER STATION SS2 SERIES
- 15. CONNECT TO REMOTE CONTACTOR IN MECHANICAL PENTHOUSE 2 manumum manum manumum manumum manum manumum







OLS )

Consulting Er

SCOPE DRAWINGS:

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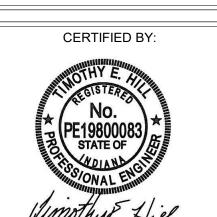
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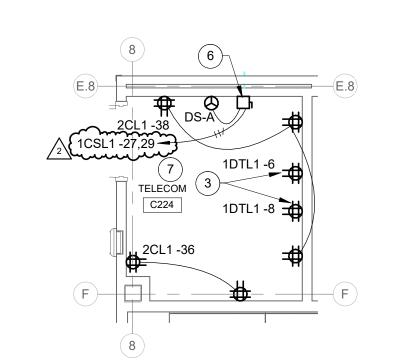
**REVISIONS:** Addendum#2 02/02/2024

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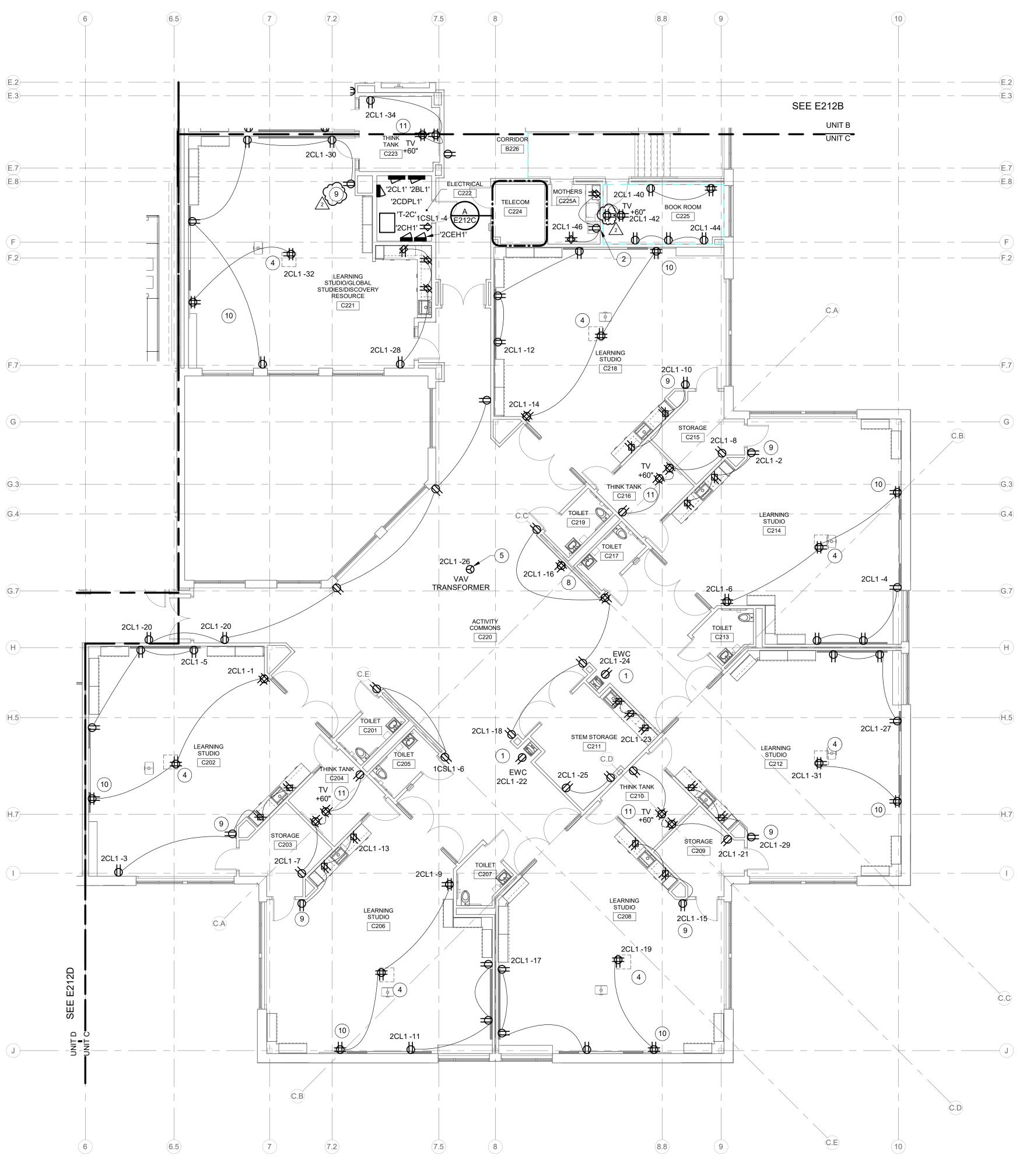
DRAWING TITLE: SECOND FLOOR PLAN - POWER -**UNIT A** 



DRAWING NUMBER E212A



A TELECOM C224 - POWER



SECOND FLOOR PLAN - POWER - UNIT C
SCALE: 1/8" = 1'-0"



WORK TO BE INSTALLED

WORK TO REMAIN

#### **GENERAL NOTES:**

GFCI TYPE CIRCUIT BREAKER.

1. SEE E001 FOR GENERAL NOTES.

#### **# PLAN NOTES:**

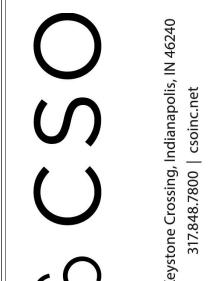
- PROVIDE RECEPTACLE CONCEALED IN EWC HOUSING. COORDINATE LOCATION WITH EWC INSTALLER PRIOR TO ROUGH-IN. PROVIDE
- RECEPTACLE TO BE FED FROM LOAD SIDE OF NEAREST GFCI RECEPTACLE.
- PROVIDE QUAD RECEPTACLE INSIDE TELECOM CABINET NEAR BOTTOM. VERIFY EXACT LOCATION W/ OWNER.
- INSTALL RECEPTACLE IN PROJECTOR PAN. COORDINATE LOCATION WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
- 5. PROVIDE DEDICATED CONNECTION TO VAV TRANSFORMER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. TRANSFORMER AND LOW VOLTAGE WIRING TO
- VAV BOXES BY MECHANICAL CONTRACTOR. 6. MINI-SPLIT AIR CONDITIONING INDOOR UNIT. POWER FROM OUTDOOR UNIT ON ROOF. 2#12, 1#12G. - 3/4" C PLUS CONTROL WIRING. PROVIDE 20A, 2P, NON-FUSED NEMA 1 DISCONNECT SWITCH.

VERIFY REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO

- 7. VERIFY LOCATIONS OF ALL OUTLETS IN TELECOM ROOM WITH
- TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
- 8. WALL-MOUNT PROJECTOR. COORDINATE LOCATION OF RECEPTACLE WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
- 9. ALIGN & COORDINATE W/ COMMUNICATION DEVICE ABOVE.
- 10. DOUBLE DUPLEX RECEPTACLE AND ADJACENT TELECOM OUTLET TYPE "LI" ARE TO BE INSTALLED CENTERED UNDER TACKBOARD. REFER TO ARCHITECTURAL ELEVATIONS FOR MORE INFORMATION.
- TELEVISION. COORDINATE LOCATION OF RECEPTACLE WITH AV CONTRACTOR PRIOR TO ROUGH-IN.

KEY PLAN







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SCOPE DRAWINGS:

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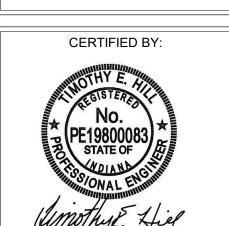
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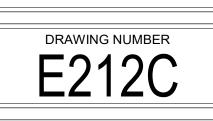
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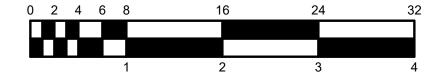
**REVISIONS:** Addendum#2 02/02/2024

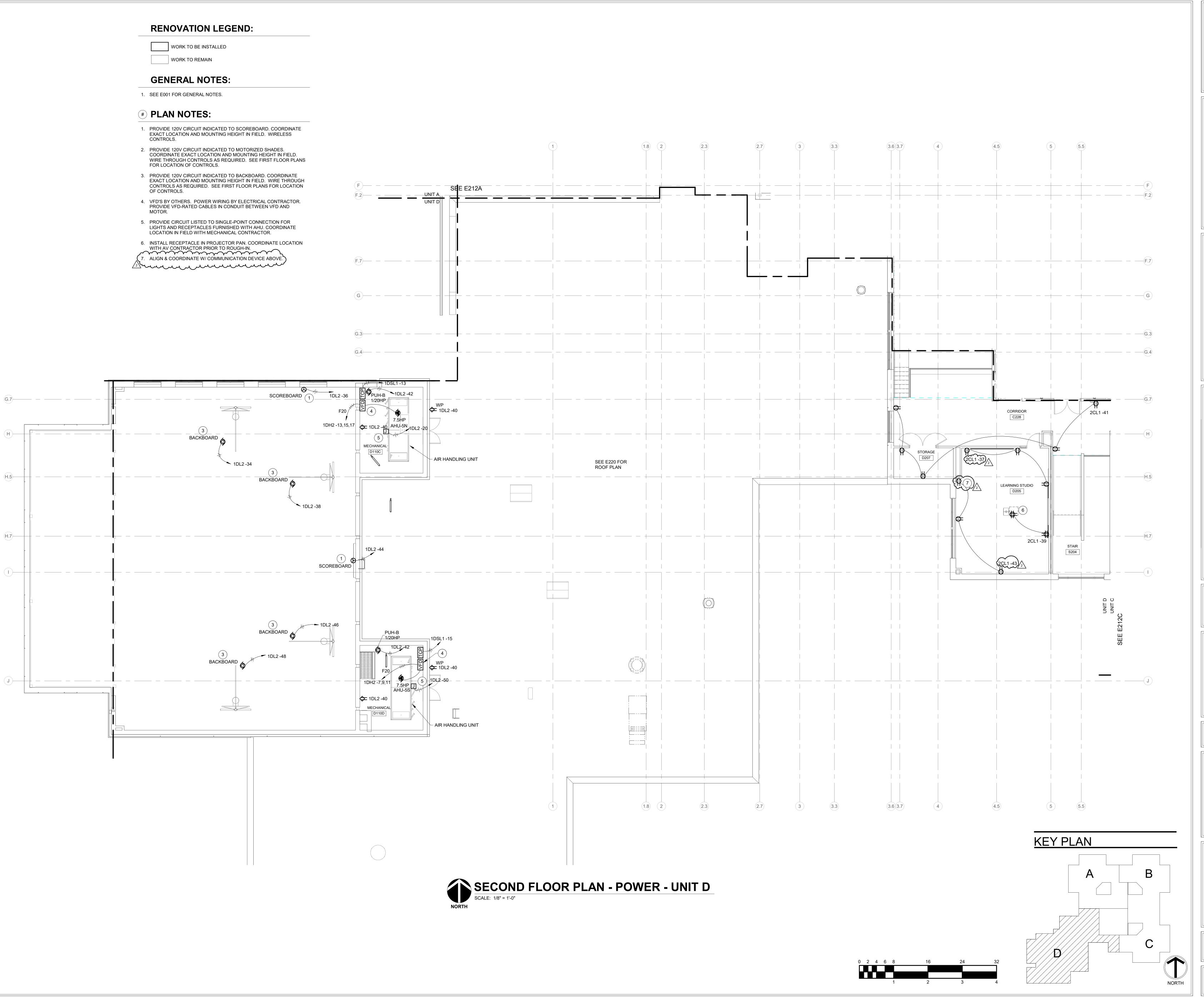
ISSUE DATE | DRAWN BY | CHECKED BY

DRAWING TITLE: SECOND FLOOR PLAN - POWER -UNIT C











Seystone Crossing, Indianapolis, IN 46240

D&A #23057

and Associates, Inc.
Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672

MILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
11442 Lantern Rd. Fishers, IN 46038

SCOPE DRAWINGS:

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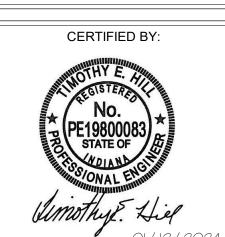
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Addendum#2 02/02/2024

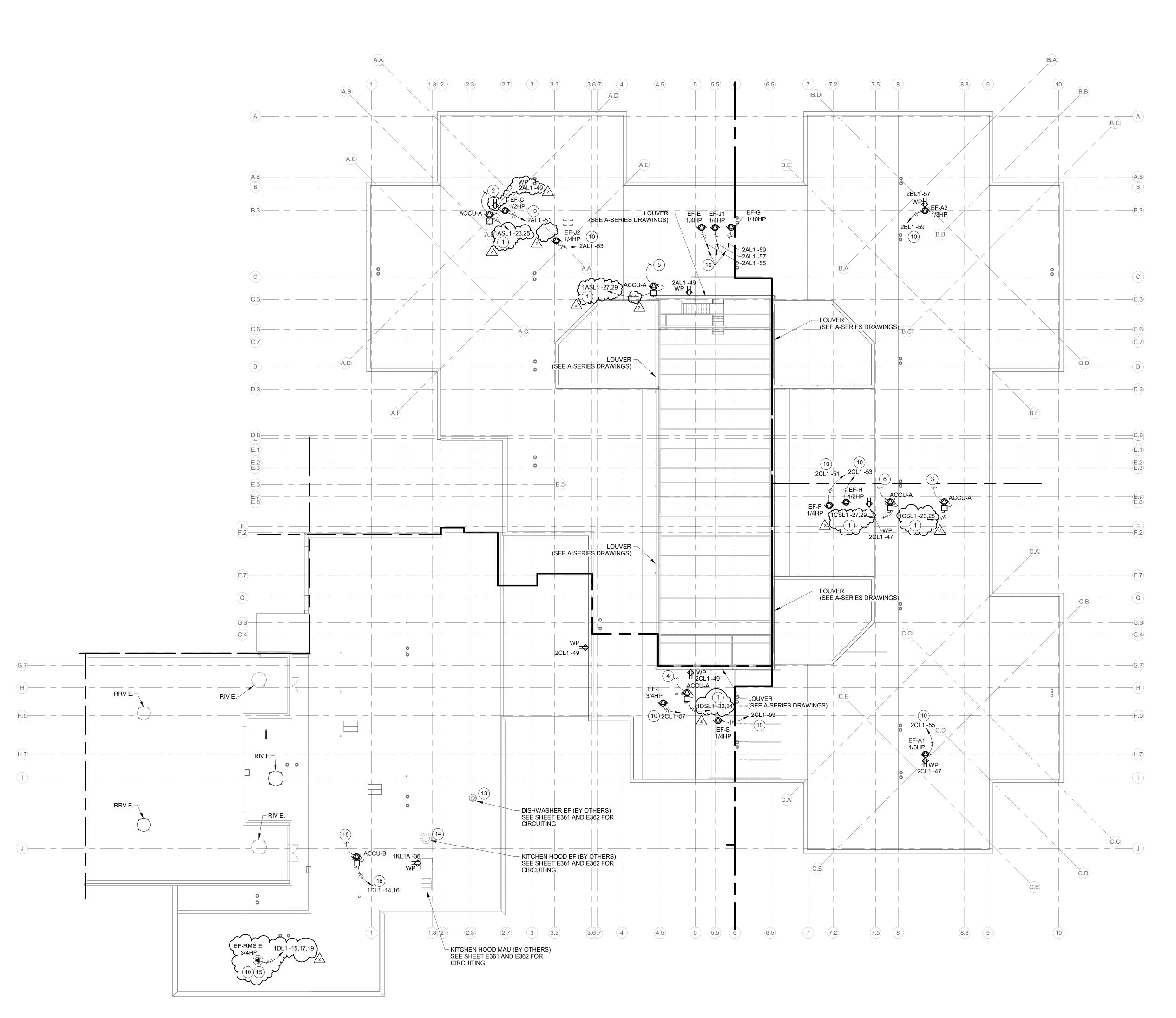
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01/15/24 GSR DEW

SECOND FLOOR
PLAN - POWER UNIT D

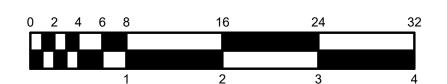


E212D

PROJECT NUMBER









WORK TO BE INSTALLED

WORK TO BE INSTA

#### **GENERAL NOTES:**

SEE E001 FOR GENERAL NOTES.

 AT EXHAUST FANS, CONNECT TO MOTORIZED DAMPERS AS REQUIRED SO THAT DAMPER IS CLOSED WHEN FAN IS OFF.

#### **# PLAN NOTES:**

- 1. 2#10, 1#10G. 3/4" C. PROVIDE 30A, 2P, NF NEMA 3R DISCONNECT
- 2. 2#10, 1#10G. 3/4" C. AND CONTROL WIRING TO INDOOR UNIT IN TELECOM A128. SEE E211A.
- 3. 2#10, 1#10G. 3/4" C. AND CONTROL WIRING TO INDOOR UNIT IN TECH C126. SEE E211C.
- 4. 2#10, 1#10G. 3/4" C. AND CONTROL WIRING TO INDOOR UNIT IN TELECOM D139. SEE E211D.
- 5. 2#10, 1#10G. 3/4" C. AND CONTROL WIRING TO INDOOR UNIT IN TELECOM A224. SEE E212A.
- 6. 2#10, 1#10G. 3/4" C. AND CONTROL WIRING TO INDOOR UNIT IN TELECOM C224. SEE E212C.
- 7. VERIFY REQUIREMENTS AND LOCATION IN FIELD WITH KEC PRIOR TO ROUGH-IN. PROVIDE NON-FUSED NEMA 3R DISCONNECT SWITCH.
- 8. COORDINATE IN FIELD. PROVIDE CONTROL WIRING AND INTERLOCK WITH HOOD FIRE SUPPRESSION SYSTEM FOR SHUTDOWN AND THERMOSTATIC CONTROLS FOR START/STOP. COORDINATE WITH
- TO MANUAL STARTER IN KILN A144. SEE DRAWING E211A. CONNECT TO MOTORIZED DAMPER TO SHUT DAMPER WHEN FAN IS OFF. INTERLOCK WITH KILN SO FAN RUNS WHEN KILN OPERATES. SEE M701 FOR CONTROL.
- PROVIDE DEDICATED MANUAL MOTOR STARTER WITH PILOT LIGHT NEXT TO SERVING PANEL. FAN CONTROLLED BY B.A.S. SEE M700 DRAWINGS.
- PROVIDE COMBINATION MAGNETIC MOTOR STARTER WITH PILOT LIGHT NEXT TO SERVING PANEL. FAN CONTROLLED BY B.A.S. SEE M700 DRAWINGS.
- 12. PROVIDE 30A-3P NEMA 3R DISCONNECT SWITCH AT UNIT.
- 13. INTERLOCK EXHAUST FAN WITH DISHWASHING MACHINE. PROVIDE ALL CONTROL AND POWER WIRING TO DISHMACHINE CONTROL PANEL. SEE DRAWING E361, E362, AND K-SERIES DRAWINGS.
- 14. INTERLOCK POWER AND CONTROL WIRING FOR EXHAUST FAN WITH MAU CONTROL PANEL. SEE DRAWING E361, E362, AND K-SERIES
- 15. CONNECT EXISTING EXHAUST FAN TO SPECIFIED CIRCUIT.

  16. 2#12 1#12. 3/4" C. PROVIDE 20 2P, NF NEMA 3R DISCONNECT SWITCH.
- 17. PROVIDE 120V CONNECTION TO MOTORIZED DAMPER. SEE M601.
- 18. 2#12, 1#12G. 3/4" C. AND CONTROL WIRING TO INDOOR UNIT IN DRY STORAGE D111. SEE E211D.





ystone Crossing, Indianapolis, IN 4624



**Dímo** d Associates Consulting Engineers 732 North Capitol Avenue Indianapolis, IN 46204 Phone: (317) 634-4672 www.redimond.com

HAMILTON SOUTHEASTERN SCHOOL
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
11442 Lantern Rd, Fishers, IN 46038

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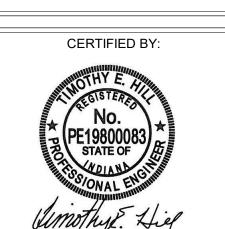
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Addendum#2 02/02/2024

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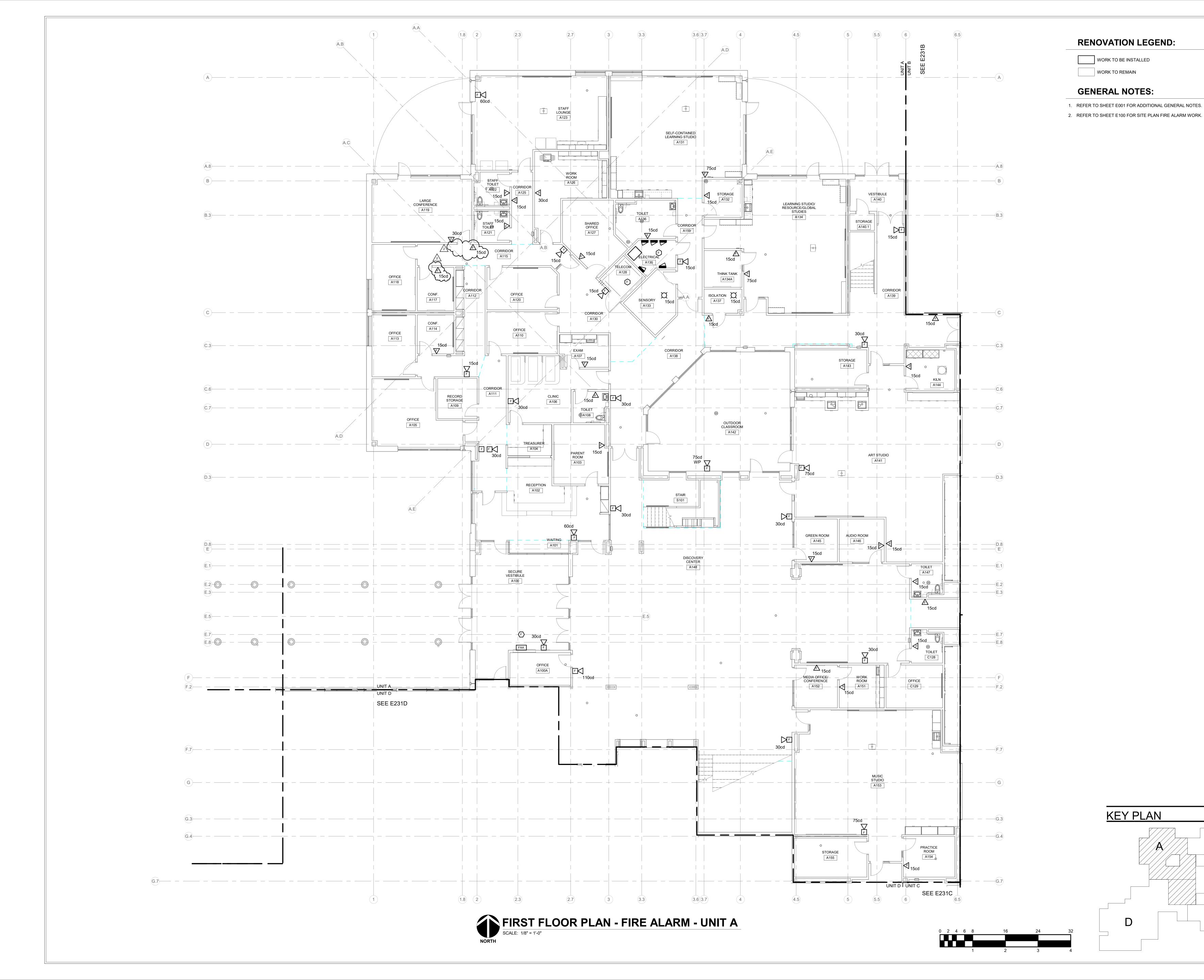
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01/15/24

ROOF PLAN -ELECTRICAL



E220









ASTERN SCHOOLS
NOVATIONS TO
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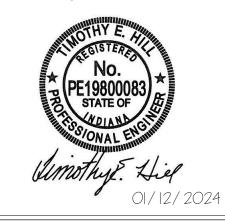
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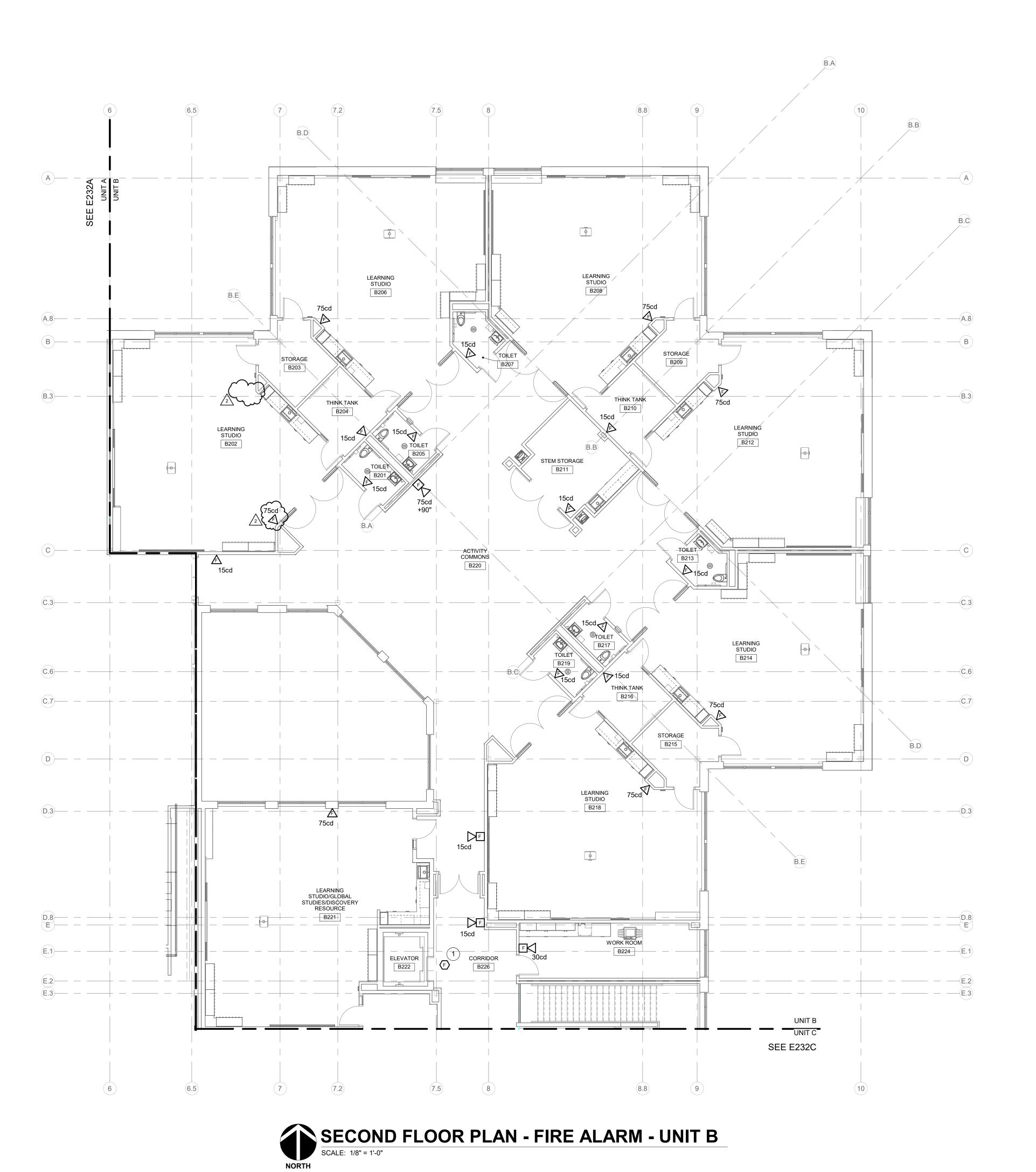
**REVISIONS:** Addendum#2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY 01/15/24 GSR

DRAWING TITLE: FIRST FLOOR PLAN - FIRE ALARM - UNIT A



DRAWING NUMBER E231A PROJECT NUMBER 2021119





WORK TO BE INSTALLED

WORK TO REMAIN

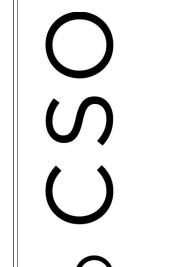
**GENERAL NOTES:** 

1. REFER TO SHEET E001 FOR ADDITIONAL GENERAL NOTES.

**# PLAN NOTES:** 

PROGRAM SMOKE DETECTOR FOR ELEVATOR RECALL FUNCTION.

Hamilton
Southeastern
Schools







ASTERN SCHOOLS
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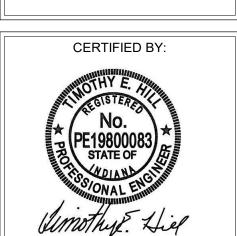
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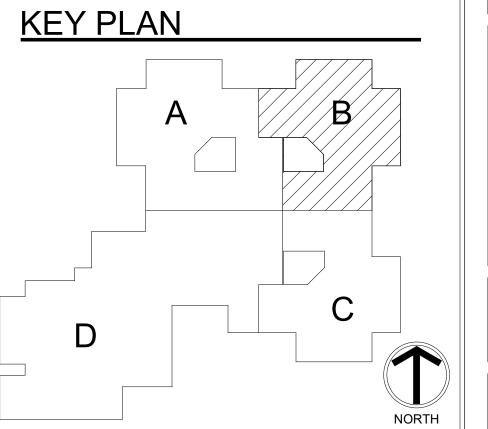
GSR

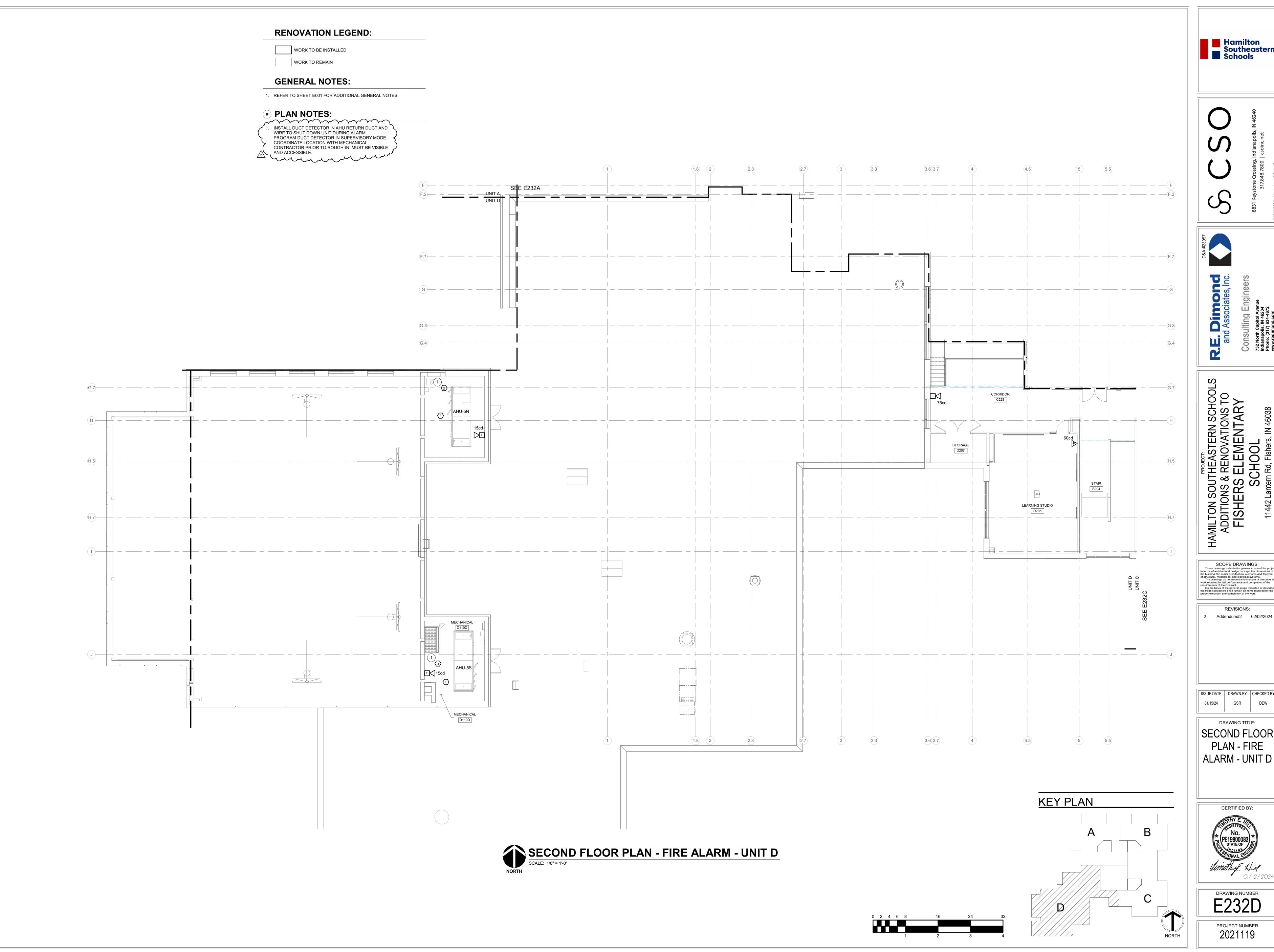
DRAWING TITLE: SECOND FLOOR PLAN - FIRE ALARM - UNIT B



DRAWING NUMBER E232B PROJECT NUMBER

2021119











SCOPE DRAWINGS:

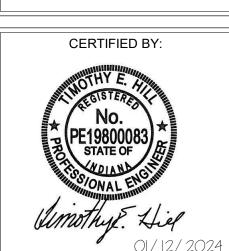
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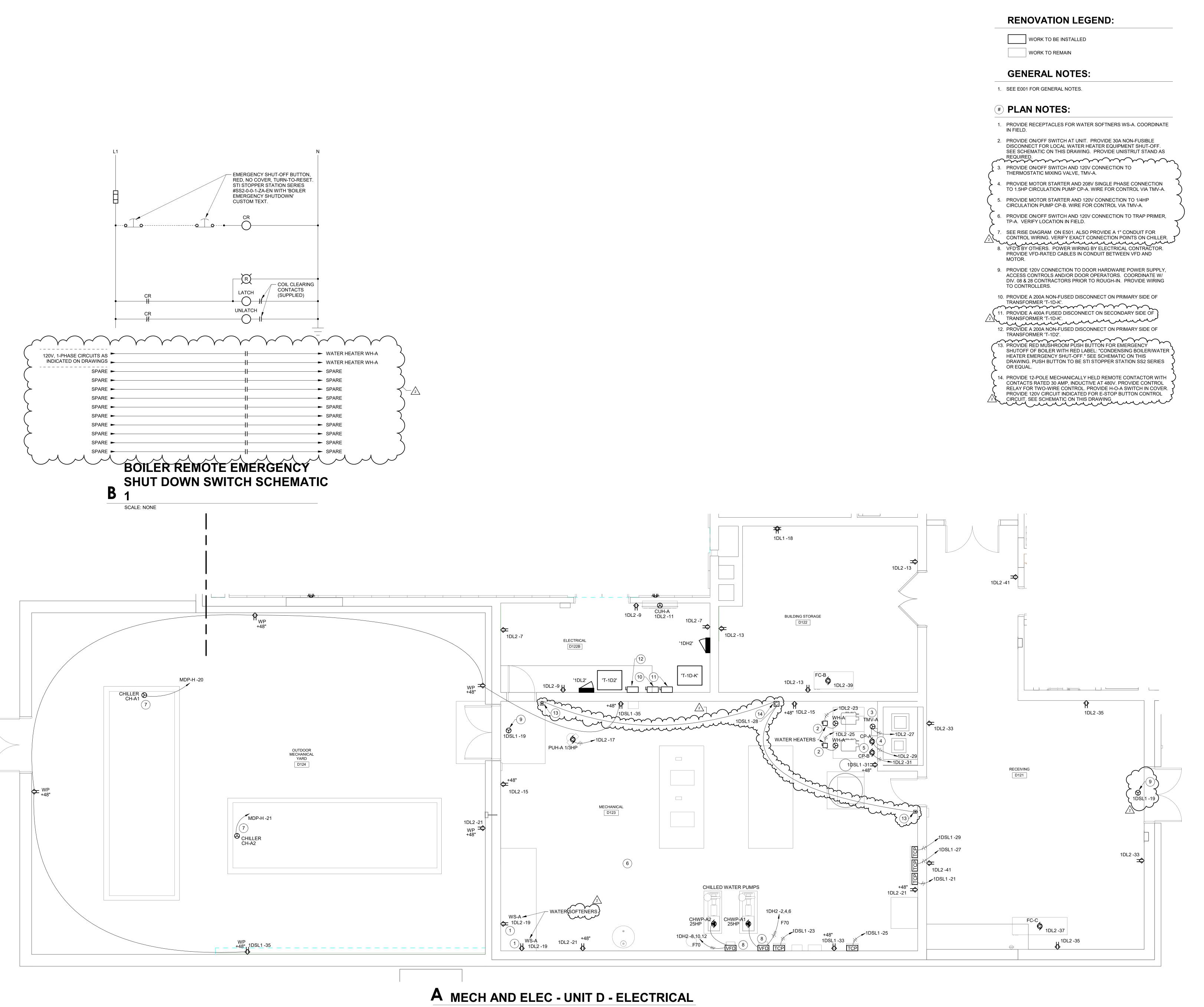
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ISSUE DATE | DRAWN BY | CHECKED BY GSR DRAWING TITLE:

SECOND FLOOR PLAN - FIRE ALARM - UNIT D



DRAWING NUMBER E232D PROJECT NUMBER 2021119



Hamilton Southeastern Schools



7

SCOPE DRAWINGS:

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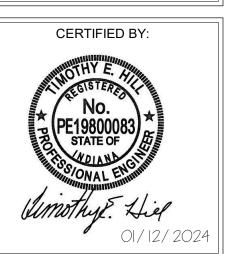
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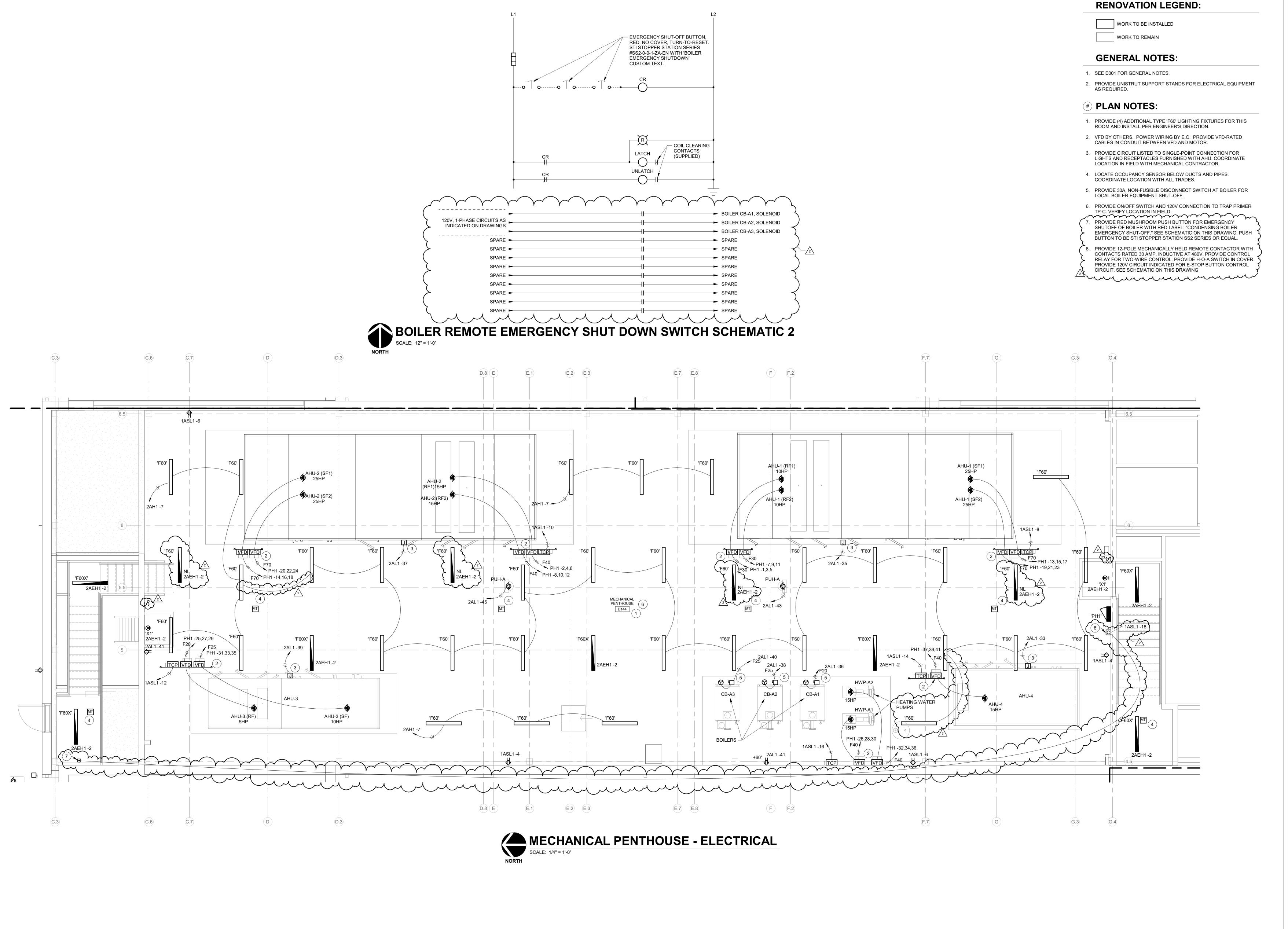
01/15/24

DRAWING TITLE: MECH AND

ELEC - UNIT D -ELECTRICAL



DRAWING NUMBER E301





dianapolis, IN 46240

S31 Keystone Crossing, Indianapolis, IN



and Associates, Inc.
Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672

AMILTON SOUTHEASTERN SCHOOL
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
SCHOOL
11442 Lantern Rd, Fishers, IN 46038

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Addendum#2 02/02/2024

**REVISIONS:** 

ISSUE DATE DRAWN BY CHECKED BY 01/15/24 GSR DEW

MECHANICAL
PENTHOUSE ELECTRICAL

CERTIFIED BY:

OTHY E.

No.

PE19800083

STATE OF

STATE OF

ONAL ENGINEERING

ONAL

E302

kVA	480∖	/. PRIMARY (Δ) 3PH.,3W.		120/208V. SECONDARY (-) 3PH.,4W.		GEC &	kVA	
RATING	O.C.P.D.	PRIMARY FEEDER	O.C.P.D.	SECONDARY FEEDER	SBJ	CONDUIT	RATING	
15							15	
30							30	
45							45	
75							75	
112.5	175A	3#4/0, 1#4 G, 2" C	400A	2 SETS 3#250KCMIL, 1#250KCMIL N, 1#2 G, 2 1/2" C EACH	#1/0	1#1/0, 1"C.	112.5	
150	225A	3#300KCMIL, 1#2 G, 2 1/2" C	500A	2 SETS 3#350KCMIL, 1#350KCMIL N, 1#1/0 G, 3" C EACH	#3/0	1#3/0, 1"C.	150	
225	350A	3#700KCMIL, 1#1 G, 3 1/2" C	800A	2 SETS 3#700KCMIL, 1#700KCMIL N, 1#3/0 G, 4" C EACH	#4/0	1#4/0, 1"C.	225	
300	450A	2 SETS 3#300KCMIL, 1#1/0 G, 2 1/2" C EACH	1000A	3 SETS 3#600KCMIL, 1#600KCMIL N, 1#3/0 G, 3 1/2" C EACH	#250 KCMIL	1#250KCMIL, 1"C.	300	
500	800A	2 SETS 3#700KCMIL, 1#3/0 G, 3 1/2" C EACH	1600A	5 SETS 3#600KCMIL, 1#600KCMIL N, 1#3/0 G, 3 1/2" C EACH	#400 KCMIL	1#400KCMIL, 1 1/4"C.	500	

MAIN BONDING JUMPER PROVIDED AS PART OF LISTED

AND LABELLED SERVICE EQUIPMENT

DISTRIBUTION ONE-LINE FOR SIZE)

CONDUCTOR: 4 AWG COPPER.

CONDUCTOR: 2/0 AWG COPPER.

JUMPER CONDUCTOR: 6 AWG COPPER.

2. GROUNDING ELECTRODE CONDUCTOR: 3/0 AWG

3. GROUNDED (NEUTRAL) CONDUCTOR: (REFER TO

4. SUPPLEMENTAL GROUNDING ELECTRODE BONDING

5. GROUNDING ELECTRODE SYSTEM BONDING JUMPER

6. GROUNDING ELECTRODE SYSTEM BONDING JUMPER

7. PROVIDE UL 467 LISTED CONNECTORS - TYPICAL

FIN. FL.

COLUMN PIER -

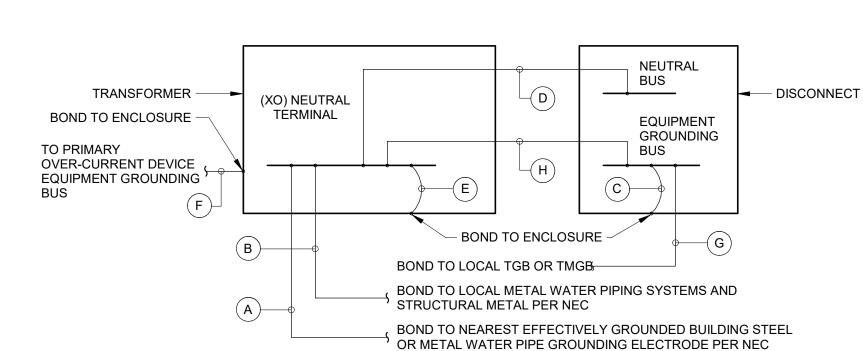
8. BONDING CONDUCTOR FOR TELECOMMUNICATIONS: 3/0 AWG STRANDED UNINSULATED COPPER (TBC)

TO GROUNDING TRIANGLE 5

C.L. BLDG. COL.

TO GROUNDING COUNTERPOISE RING S

	DIST	TRIBUTION TRANSFORMER FEED	ER AND G	ROUNDING SCHEDULE (COPPER CON	IDUCTO	RS)	
kVA	480V	. PRIMARY (Δ) 3PH.,3W.		120/208V. SECONDARY (-) 3PH.,4W.		GEC &	kVA
RATING	O.C.P.D.	PRIMARY FEEDER	O.C.P.D.	SECONDARY FEEDER	SBJ	CONDUIT	RATING
15	30A	3#10, 1#10 G, 3/4" C	50A	3#6, 1#6 N, 1#8 G, 1-1/4" C	#8	1#8, 3/4"C.	15
30	50A	3#6, 1#10 G, 1" C	100A	3#1, 1#1 N, 1#6 G, 1-1/2" C	#6	1#6, 3/4"C.	30
45	70A	3#4, 1#8 G, 1-1/4" C	150A	3#1/0, 1#1/0 N, 1#6 G, 2" C	#6	1#6, 3/4"C.	45
75	125A	3#1, 1#6 G, 1-1/2" C	250A	3#250KCMIL, 1#250KCMIL N, 1#2 G, 2'1/2" C	#2	1#2, 3/4"C.	75
112.5	175A	3#2/0, 1#6 G, 2" C	400A	2 SETS 3#3/0, 1#3/0 N, 1#4 G, 2" C EACH	#2	1#2, 3/4"C.	112.5
150	225A	3#4/0, 1#4 G, 2-1/2" C	500A	2 SETS 3#250KCMIL, 1#250KCMIL N, 1#2 G, 2-1/2" C EACH	#1/0	1#1/0, 1"C.	150
225	350A	3#500KCMIL, 1#3 G, 3" C	800A	3 SETS 3#300KCMIL, 1#300KCMIL N, 1#2 G, 3" C EACH	#2/0	1#2/0, 1"C.	225
300	450A	2 SETS 3#4/0, 1#2 G, 2-1/2" C EACH	1000A	3 SETS 3#400KCMIL, 1#400KCMIL N, 1#1/0 G, 3-1/2" C EACH	#3/0	1#3/0, 1"C.	300
500	800A	2 SETS 3#500KCMIL, 1#1/0 G, 3" C EACH	1600A	4 SETS 3#600KCMIL, 1#600KCMIL N, 1#1/0 G, 4" C EACH	#300 KCMIL	1#3/0, 1"C.	500



- BONDING JUMPER 3/0 AWG BRAIDED-TYPE

- A. GROUNDING ELECTRODE CONDUCTOR (GEC). REFER TO "GEC AND CONDUIT" COLUMN IN DISTRIBUTIONTRANSFORMER FEEDER AND GROUNDING SCHEDULE FOR CONDUCTOR AND
- B. SUPPLY-SIDE BONDING JUMPER (SSBJ). REFER TO "GEC AND CONDUIT" COLUMN IN DISTRIBUTION TRANSFORMER FEEDER AND GROUNDING SCHEDULE FOR CONDUCTOR AND CONDUIT SIZE.
- C. SSBJ. REFER TO GROUND CONDUCTOR SIZE IN "GEC AND CONDUIT" COLUMN IN DISTRIBUTION TRANSFORMER FEEDER AND GROUNDING SCHEDULE. SCREW OR BUSBAR MAY BE USED WHEN
- PROVIDED AS PART OF LISTED SERVICE EQUIPMENT. D. GROUNDED (NEUTRAL) CONDUCTOR. REFER TO "SECONDARY FEEDER" COLUMN FOR
- E. SYSTEM BONDING JUMPER (SBJ). REFER TO "SBJ" COLUMN IN DISTRIBUTION TRANSFORMER FEEDER AND GROUNDING SCHEDULE.
- F. EQUIPMENT GROUNDING CONDUCTOR. REFER TO "PRIMARY FEEDER" COLUMN IN DISTRIBUTION
- TRANSFORMER FEEDER AND GROUNDING SCHEDULE FOR CONDUCTOR SIZE.
- G. EQUIPMENT BONDING JUMPER (EBJ): 4 AWG COPPER.

NOTES:

H. SSBJ. REFER TO GROUNDING CONDUCTOR SIZE IN "SECONDARY FEEDER" COLUMN IN DISTRIBUTION TRANSFORMERFEEDER AND GROUNDING SCHEDULE.

TRANSFORMER SCHEDULE NOTES:

1. REFER TO DISTRIBUTION TRANSFORMER GROUNDING DETAIL. 2. CONDUCTOR SIZES ARE BASED ON COMPACT STRANDED XHHW-2 ALUMINUM CONDUCTORS. TRANSFORMER SCHEDULE NOTES:

- MAIN SERVICE EQUIPMENT ENCLOSURE

- GROUND FAULT SENSOR

 $\rightarrow \cup \leftarrow$ 

H MAIN SERVICE GROUNDING

TYPICAL GROUND ROD

**INSTALLATION DETAIL** 

REFER TO DISTRIBUTION TRANSFORMER GROUNDING DETAIL. 2. CONDUCTOR SIZES ARE BASED ON THHN-THWN COPPER CONDUCTORS.

NEUTRAL BUS

└ BOND TO ENCLOSURE GROUNDING

TO PBB (TELECOM)

TO WATER SERVICE PIPE

**EXOTHERMICALLY** 

- #4/0 BARE COPPER GROUND WIRE COIL AND TIE 4'-0" FOR

EXOTHERMIC WELD CONNECTION

PVC COUPLING. SEAL WITH

—— 3/4" DIAMETER BY 15-FOOT LONG MIN. COPPER CLAD GROUND ROD.

MINIMUM 2-FOOT BELOW GRADE.

DUCT SEAL.

— 1 1/4" PVC CONDUIT.

- #4/0 BARE COPPER GROUND WIRE

FUTURE CONNECTION.

FOUNDATION WALL

FINISHED GRADE

WELD TO CONCRETE

**EXOTHERMICALLY WELD** S TO EFFECTIVELY GROUND

**EQUIPMENT GROUNDING BUS** 

ELECTRODE

INSTALL NEAR MAIN SWITCHBOARD

BUSBAR

#### DISTRIBUTION TRANSFORMER A GROUNDING DETAIL

SCALE: NONE

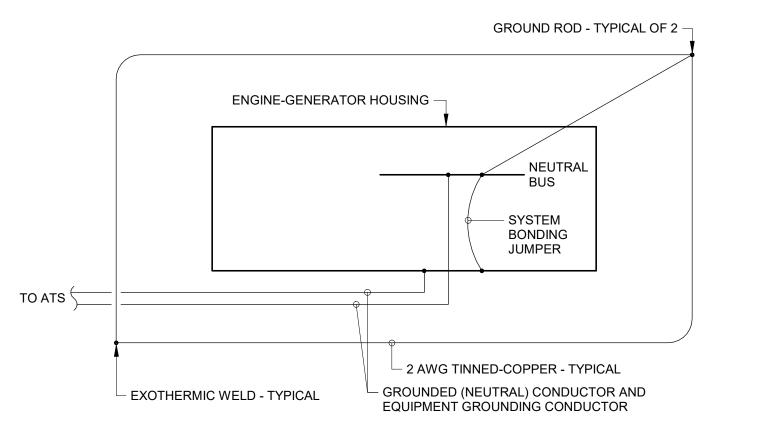
SCALE: NONE

- LISTED BOLTED CLAMP CONNECTOR COMPLYING WITH UL 467

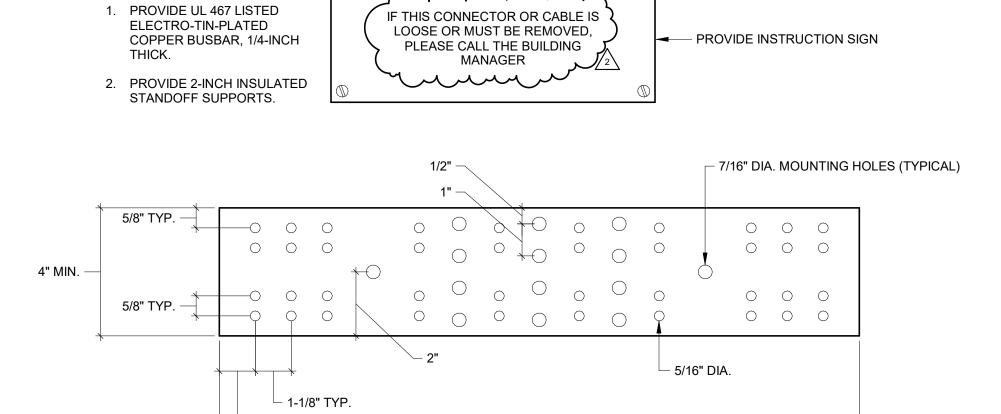
#### TYPICAL BONDING JUMPER AT **EACH WATER METER**

→ TO GROUNDING ELECTRODE BUSBAR — 6 AWG UNINSULATED TINNED-COPPER - (TYPICAL) GROUND ROD - (TYPICAL OF 3) - EXOTHERMIC WELD - (TYPICAL)

## TYPICAL GROUNDING TRIANGLE

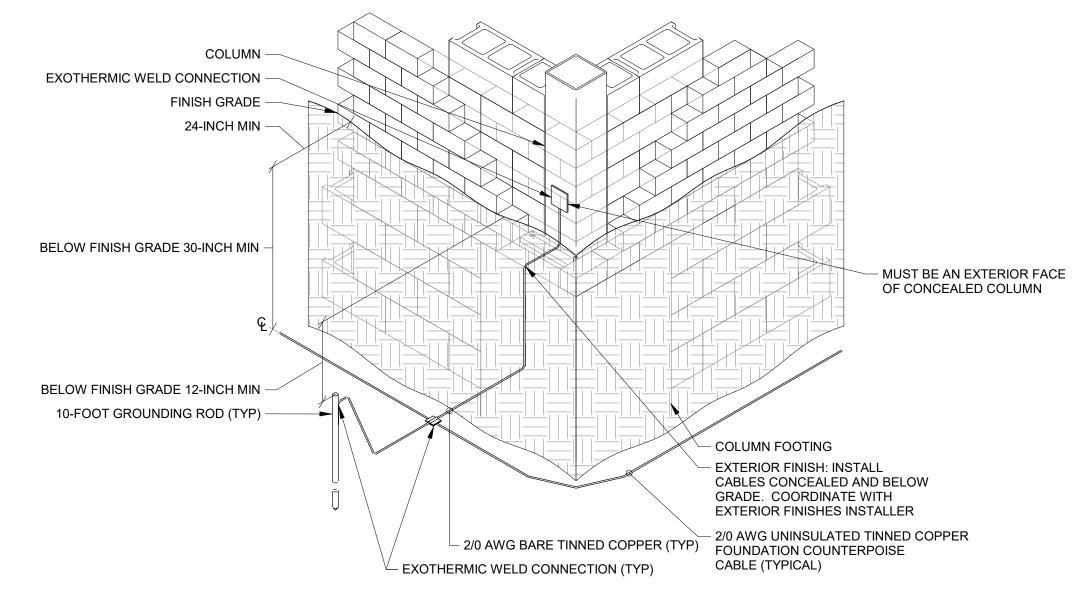


**TYPICAL ENGINE GENERATOR** G GROUNDING SCALE: NONE



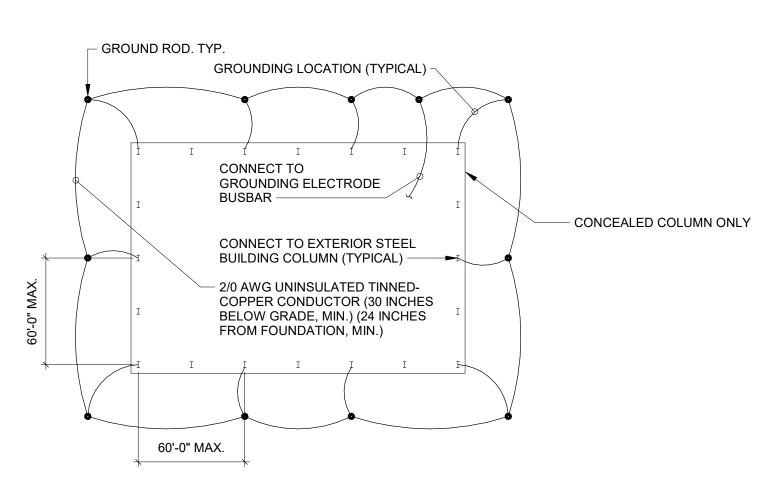
#### **GROUNDING ELECTRODE BUSBAR**

— 1-1/8" TYP.



#### **TYPICAL GROUND RING AND GROUNDING FOR STEEL BUILDING STRUCTURE**

SCALE: NONE



D TYPICAL GROUND RING

**Hamilton** 



Dimo

70

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the the trade contractors shall furnish all items required for the proper execution and completion of the work.

**REVISIONS:** Addendum#2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY GSR 01/15/24

DRAWING TITLE: **DETAILS** -GROUNDING

CERTIFIED BY:

DRAWING NUMBER E401



	LIGHTING CONTROL STRATEGY FOR HAMILTON SOUTHEASTE	RN SCHOO	LS
AREA	DESCRIPTION	COLOR TEMP.	LIGHT LEVEL (AT 100%)
ELEMENTARY GYMNASIUM	ENTER - OCCUPANCY SENSOR TURNS ON WALK-THROUGH LIGHTS     WALL DIMMING SWITCHES ADJUST LIGHTS TO DIMMED LEVEL (10 TO 100%)     EXIT - AFTER 30 MINUTES, OCCUPANCY SENSOR TURNS LIGHTS OFF     SEE nLIGHT CONTROL STRATEGY FOR MORE INFORMATION, THIS SHEET	4000K	60 fc
CORRIDORS	ENTER - OCCUPANCY SENSOR TURNS LIGHTS ON 100%     EXIT - AFTER 10 MINUTES, OCCUPANCY SENSOR TURNS LIGHTS OFF	4000K	
CLASSROOMS	ENTER - OCCUPANCY SENSOR TURNS LIGHTS ON AT LAST INTENSITY LEVEL     (2) SWITCHING/DIMMING ZONES:         FRONT ROW TEACHING WALL FIXTURES         REMAINING CLASSROOM FIXTURES         DIMMING SWITCHES ADJUST LIGHTS TO DIMMED LEVEL (10 TO 100%)         EXIT - AFTER 20 MINUTES, OCCUPANCY SENSOR TURNS LIGHTS OFF	3500K	60 fc
RESTROOMS	ENTER - OCCUPANCY SENSOR TURNS LIGHTS ON     EXIT - AFTER 10 MINUTES, OCCUPANCY SENSOR TURNS LIGHTS OFF	4000K	
CAFETERIA	ENTER - OCCUPANCY SENSOR TURNS LIGHTS ON AT 40% BRIGHTNESS     DIMMING SWITCHES ADJUST LIGHTS TO DIMMED LEVEL (10 TO 100%)     EXIT - AFTER 20 MINUTES, OCCUPANCY SENSOR TURNS LIGHTS OFF     SEE nLIGHT CONTROL STRATEGY FOR MORE INFORMATION, THIS SHEET	4000K	
OFFICES AND MEDIA CENTERS	ENTER - OCCUPANCY SENSOR TURNS LIGHTS ON AT LAST INTENSITY LEVEL     DIMMING SWITCHES ADJUST LIGHTS TO DIMMED LEVEL (10 TO 100%)     EXIT - AFTER 10 MINUTES, OCCUPANCY SENSOR TURNS LIGHTS OFF	3500K	
STORAGE AND MECHANICAL ROOMS	ENTER - OCCUPANCY SENSOR TURNS LIGHTS ON 100%     EXIT - AFTER 20 MINUTES, OCCUPANCY SENSOR TURNS LIGHTS OFF	4000K	

NOTE:
ALL OCCUPANCY SENSORS TO BE CEILING MOUNT.
MULTIPLE OCCUPANCY SENSORS WITHIN A ROOM OR CORRIDOR SHALL BE WIRED TOGETHER TO CONTROL ALL OF THE LIGHTS WITHIN THAT SPACE, UNLESS OTHERWISE NOTED.

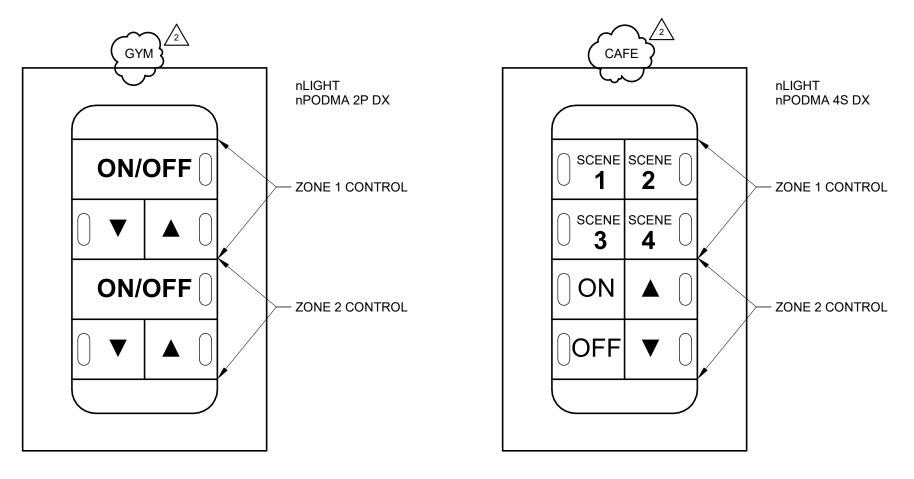
## C STRATEGY

SCALE: NONE

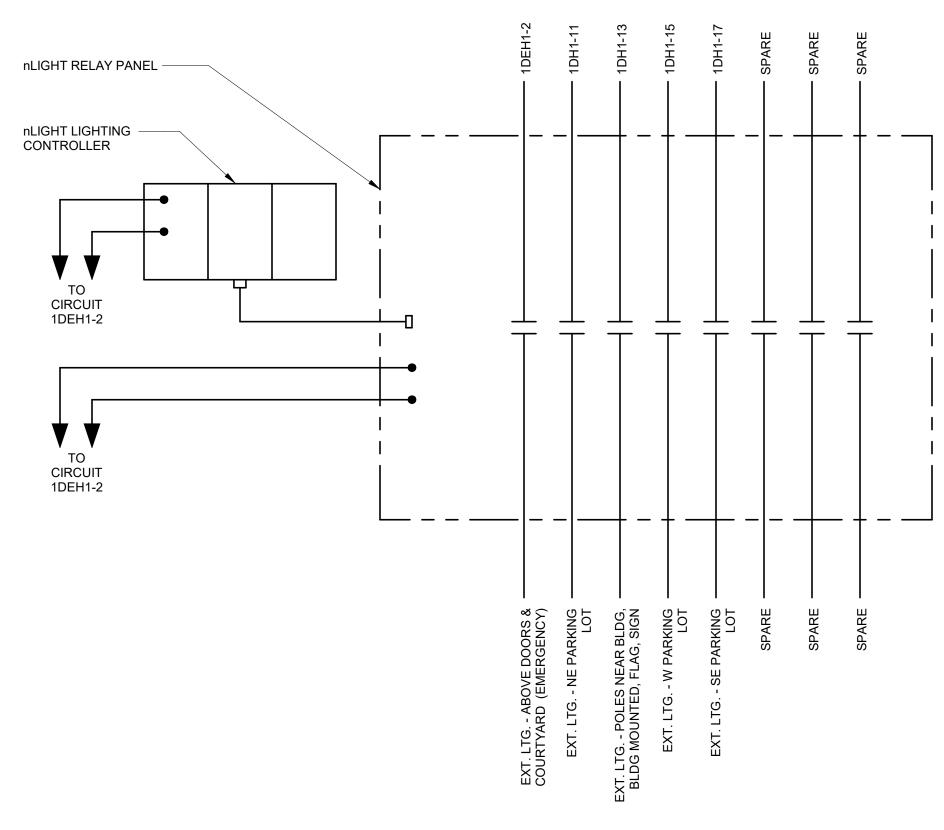
	nLIGHT CONTROL STRATEGY
AREA	DESCRIPTION
GYMNASIUM	ON OCCUPANCY SENSOR TRIGGER, nLIGHT SYSTEM TURNS LIGHTS OVER GYMNASIUM FLOOR ON AT WALK-THROUGH LEVEL (LIGHTS IN ALL 4 CORNERS ON TO 40%). NOTED AS 'c' ON DRAWINGS WALL DIMMING SWITCHES ADJUST LIGHTS TO DIMMED LEVEL (10 TO 100%). DIMMING SWITCHES SHALL BE 6-BUTTON: ON/OFF AND UP/DOWN DIMMING FOR (2) ZONES. ZONE 1 - LIGHTS OVER GYMNASIUM FLOOR (NOTED AS 'a' AND 'c' ON DRAWINGS) ZONE 2 - LIGHTS OVER BLEACHERS (NOTED AS 'b' ON DRAWINGS) AFTER 30 MINUTES OF NO ACTIVITY BY EITHER OCCUPANCY SENSORS OR SWITCHES, SYSTEM TURNS LIGHTS OFF.
CAFETERIA	<ul> <li>ON OCCUPANCY SENSOR TRIGGER, nLIGHT SYSTEM TURNS ALL CAFETERIA LIGHTS ON AT 40% BRIGHTNESS.</li> <li>WALL DIMMING SWITCHES ADJUST LIGHTS TO DIMMED LEVEL (10 TO 100%).</li> <li>DIMMING SWITCHES SHALL BE 8-BUTTON: (4) SCENES PLUS ON/OFF AND UP/DOWN DIMMING.</li> <li>SCENE 1 - MOVIE NIGHT/WALK-THRU (10% DIMMING)</li> <li>SCENE 2 - LOW (40%)</li> <li>SCENE 3 - MEDIUM (80%)</li> <li>SCENE 4 - HIGH (100%)</li> <li>AFTER 20 MINUTES OF NO ACTIVITY BY EITHER OCCUPANCY SENSORS OR SWITCHES, SYSTEM TURNS LIGHTS OFF.</li> </ul>
EXTERIOR	EVENING:     ON LIGHTING CONTROLLER ASTRONOMICAL TIME CLOCK TRIGGER, nLIGHT SYSTEM TURNS ALL EXTERIOR LIGHTS ON.     ON LIGHTING CONTROLLER TIME CLOCK TRIGGER, SYSTEM TURNS SELECTED LIGHTING ZONES OFF.      MORNING:     ON LIGHTING CONTROLLER TIME CLOCK TRIGGER, SYSTEM TURNS SELECTED LIGHTING ZONES BACK ON.     ON LIGHTING CONTROLLER ASTRONOMICAL TIME CLOCK TRIGGER, SYSTEM TURNS ALL EXTERIOR LIGHTS OFF.      LIGHTING ZONES ON ALL NIGHT:     ABOVE DOORS & COURTYARDS (EGRESS)     LIGHT POLES NEAR BUILDING, SIGN     FLAGPOLE      LIGHTING ZONES OFF DURING CERTAIN TIMES AT NIGHT:     WEST PARKING LOT     NORTHEAST PARKING LOT AND PLAYGROUND     SOUTHEAST PARKING LOT

NOTE:
• VERIFY ALL SETTINGS WITH OWNER.

## D nLIGHT CONTROL STRATEGY



E nLIGHT SWITCH DETAILS



# A PANEL CONTROL SCHEMATIC SCALE: NONE

	EXTERIOR RELAY PANEL											
POLE	LOAD DESCRIPTION	LOAD	CIRCUIT	VOLTAGE	TYPE							
1	EXT. LTG ABOVE DOORS & COURTYARDS (EMERGENCY)	688 VA	1DEH1-2	277	ON/OFF							
2	EXT. LTG SE PARKING LOT	714 VA	1DH1-11	277	ON/OFF							
3	EXT. LTG POLES NEAR BLDG, BLDG MTD, FLAG, SIGN	1472 VA	1DH1-13	277	ON/OFF							
4	EXT. LTG W PARKING LOT	1964 VA	1DH1-15	277	ON/OFF							
5	EXT. LTG NE PARKING LOT	1302 VA	1DH1-11	277	ON/OFF							
6	SPARE											
7	SPARE											
8	SPARE											

B EXTERIOR RELAY PANEL
SCHEDULE



Stone Crossing, Indianapolis, IN 4624



and Associates, Inc.
Insulting Engineers
North Capitol Avenue
anapolis, IN 46204
ne: (317) 634-4672

HAMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
11442 Lantern Rd, Fishers, IN 46038

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

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On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS: 2 Addendum#2 02/02/2024

ISSUE DATE DRAWN BY CHECKED BY
01/15/24 GSR DEW

DETAILS -LIGHTING CONTROL

CERTIFIED BY:

CERTIFIED BY:

NO.

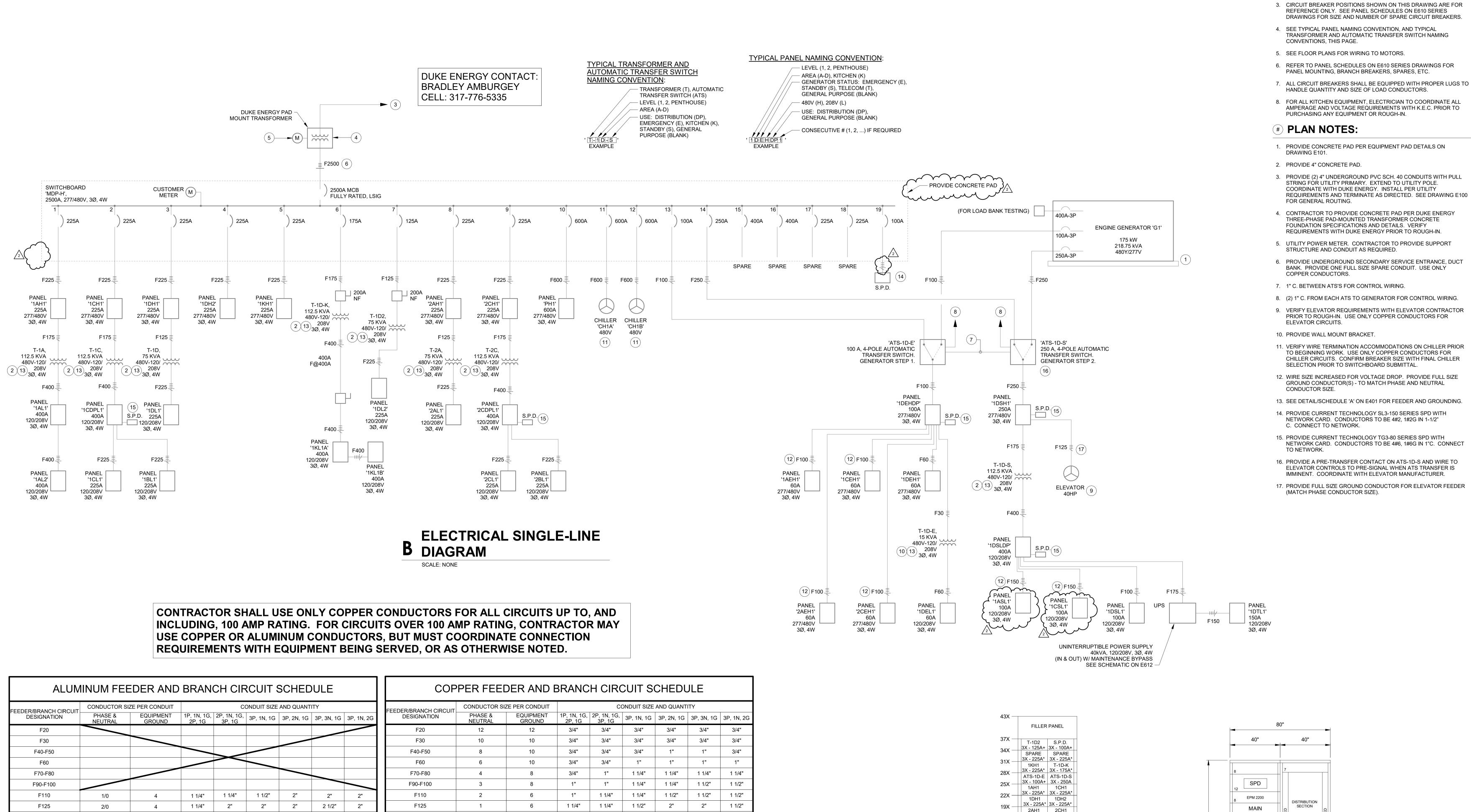
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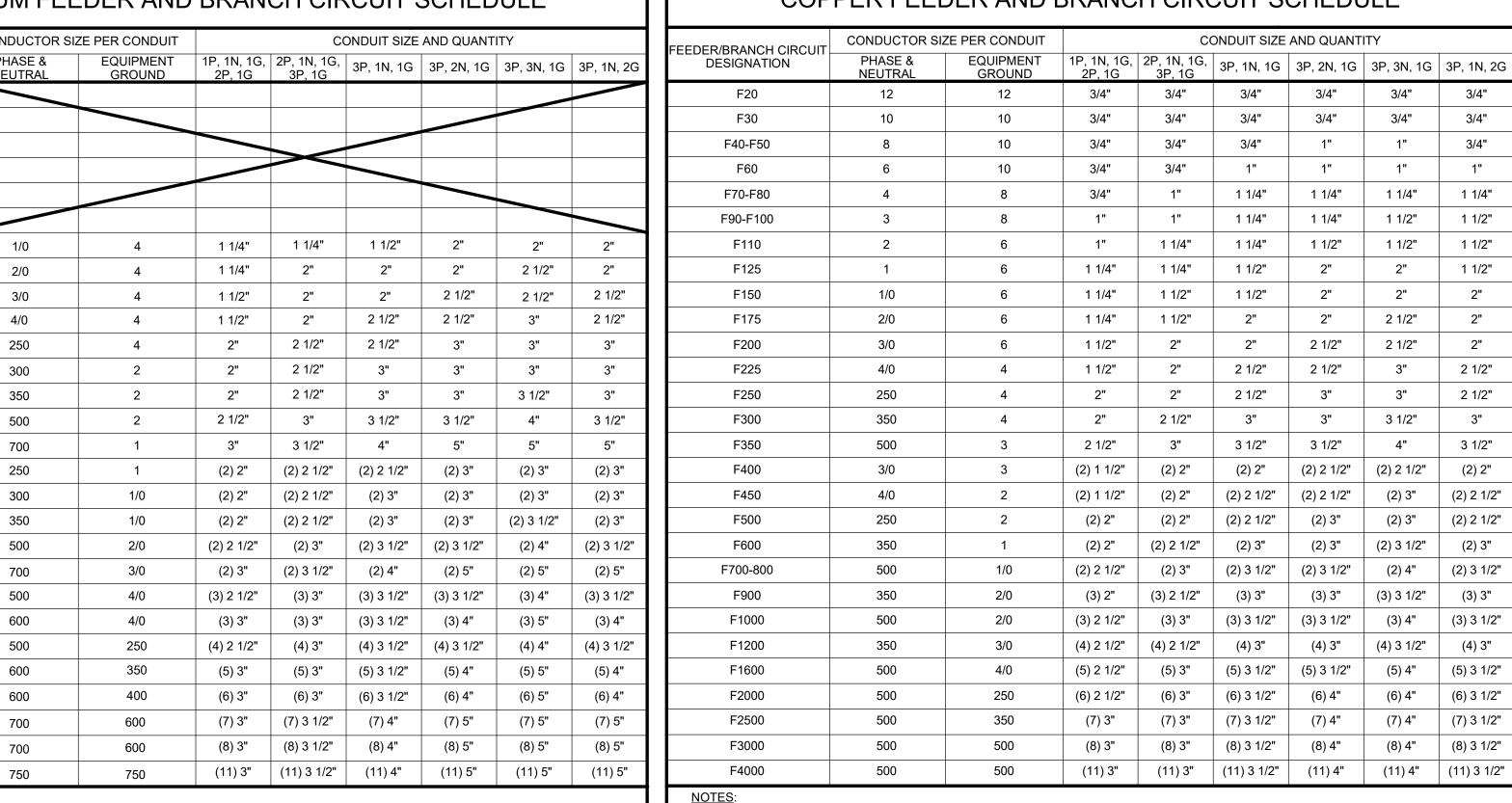
STATE OF

POIAND CHARLES

ONAL ENGINEERING

DRAWING NUMBER
E404





. CONDUCTOR SIZES ARE BASED UPON 75°C AMPACITY, NO DERATING AND NO ADJUSTMENTS FOR VOLTAGE DROP.

ADJUST AS REQUIRED BY EACH FIELD CONDITION IN ORDER TO COMPLY WITH UL AND NEC.

F150

F175

F200

F225

F250

F300

F350

F450

F500

F600

F700-800

F900

F1000

F1200

F1600

F2000

F2500

F3000

F4000

CONDUCTOR SIZES ARE BASED UPON 75°C AMPACITY, NO DERATING AND NO ADJUSTMENTS FOR VOLTAGE DROP.

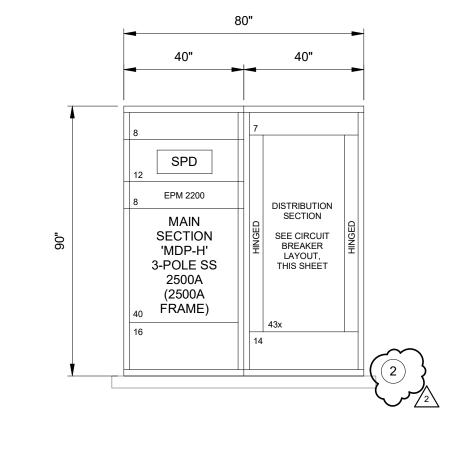
ADJUST AS REQUIRED BY EACH FIELD CONDITION IN ORDER TO COMPLY WITH UL AND NEC.

<u>NOTES</u>:

#### **GENERAL NOTES:**

- 1. SEE E001 FOR ADDITIONAL GENERAL NOTES.
- 2. GENERAL ELECTRIC, SQUARE D, AND SIEMENS ARE APPROVED MANUFACTURERS. EATON IS NOT AN OWNER-APPROVED
- MANUFACTURER. 3. CIRCUIT BREAKER POSITIONS SHOWN ON THIS DRAWING ARE FOR

- 8. FOR ALL KITCHEN EQUIPMENT, ELECTRICIAN TO COORDINATE ALL AMPERAGE AND VOLTAGE REQUIREMENTS WITH K.E.C. PRIOR TO
- 3. PROVIDE (2) 4" UNDERGROUND PVC SCH. 40 CONDUITS WITH PULL REQUIREMENTS AND TERMINATE AS DIRECTED. SEE DRAWING E100
- 4. CONTRACTOR TO PROVIDE CONCRETE PAD PER DUKE ENERGY THREE-PHASE PAD-MOUNTED TRANSFORMER CONCRETE
- 5. UTILITY POWER METER. CONTRACTOR TO PROVIDE SUPPORT
- BANK. PROVIDE ONE FULL SIZE SPARE CONDUIT. USE ONLY
- 8. (2) 1" C. FROM EACH ATS TO GENERATOR FOR CONTROL WIRING.
- PRIOR TO ROUGH-IN. USE ONLY COPPER CONDUCTORS FOR
- TO BEGINNING WORK. USE ONLY COPPER CONDUCTORS FOR CHILLER CIRCUITS. CONFIRM BREAKER SIZE WITH FINAL CHILLER
- GROUND CONDUCTOR(S) TO MATCH PHASE AND NEUTRAL
- 13. SEE DETAIL/SCHEDULE 'A' ON E401 FOR FEEDER AND GROUNDING
- 15. PROVIDE CURRENT TECHNOLOGY TG3-80 SERIES SPD WITH NETWORK CARD. CONDUCTORS TO BE 4#6, 1#6G IN 1"C. CONNECT
- 16. PROVIDE A PRE-TRANSFER CONTACT ON ATS-1D-S AND WIRE TO ELEVATOR CONTROLS TO PRE-SIGNAL WHEN ATS TRANSFER IS
- 17. PROVIDE FULL SIZE GROUND CONDUCTOR FOR ELEVATOR FEEDER



UNIT DIMENSIONS SHOWN FOR REFERENCE ONLY.

VERIFY FINAL DIMENSIONS PRIOR TO ROUGH-IN.

+ - 150A FRAME BREAKER WITH TRIP RATING AS INDICATED \* - 250A FRAME BREAKER WITH TRIP RATING AS INDICATED # - CONFIRM BREAKER SIZE WITH FINAL CHILLER SELECTION PRIOR TO SWITCHBOARD SUBMITTAL \$ - SPARE FOR FUTURE PHOTOVOLTAIC (SOLAR) SYSTEM IS BI-DIRECTIONAL

3X - 225A\* 3X - 225A\*

SPARE SPARE

4X - 400A 4X - 400A\$

4X - 600A

4X - 600A#

4X - 600A#

40-INCH WIDE STRUCTURE

35-INCH DEPTH

43X CHASSIS

SCALE: 3/8" = 1'-0"

150A FRAME BREAKERS - GENERAL ELECTRIC SELA SERIES OR EQUAL 250A FRAME BREAKERS - GENERAL ELECTRIC SFLA SERIES OR EQUAL 400A FRAME BREAKERS - GENERAL ELECTRIC SGLA4 SERIES OR EQUAL 600A FRAME BREAKERS - GENERAL ELECTRIC SGLA6 SERIES OR EQUAL

ALL BREAKERS SHALL BE RATED AT 65KAIC

AMPACITY SIZES SHOWN REPRESENT BOTH FRAME AND TRIP RATING UNLESS OTHERWISE NOTED. (I.E. 800A = 800AF/800AT). GENERAL ELECTRIC PART NUMBERS ARE SHOWN FOR REFERENCE

A MDP-H - CIRCUIT BREAKER LAYOUT

NOTE:

Hamilton Southeastern Schools

CONSUITING 732 North Capito Indianapolis, IN 4 Phone: (317) 634 www.redimond.c

7 I SOUTHEASTERN SONS & RENOVATION IERS ELEMENTA SCHOOL

SCOPE DRAWINGS: These drawings indicate the general scope of the project n terms of architectural design concept, the dimensions of he building, the major architectural elements and the type On the basis of the general scope indicated or describ

proper execution and completion of the work.

**REVISIONS:** Addendum#2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY

GSR

01/15/24

DRAWING TITLE: RISER DIAGRAM - ELECTRICAL

CERTIFIED BY:

DRAWING NUMBER E501

	LIGHT FIX	TURE S	CHEDI	JLE						
MARK	DESCRIPTION	MOUNTING	TOTAL FIXTURE WATTS	CRI	WATTS	COLOR	LUMENS	VOLTS	MANUFACTURER(S)	MARK
F01-4	LINEAR RECESSED, LENGTH INDICATED, TECH ZONE 4 COMPATIBLE, FLUSH MOUNT, WHITE DIFFUSER, 0-10V DIMMING TO 10-PERCENT.	RECESSED	38	80	9.5W/FT	4000K	800/FT	277 V	LUMENWERX VIA3R SERIES FINELITE HP-2R SERIES PRUDENTIAL BPRO3-REC SERIES	F01-4
F01-4X	SAME AS 'F01-4,' EXCEPT PROVIDE AUTOMATIC LOAD CONTROL RELAY (ALCR).	RECESSED	38	80	9.5W/FT	4000K	800/FT	277 V		F01-4X
F01-6	SAME AS 'F01-4,' EXCEPT LENGTH.	RECESSED	57	80	9.5W/FT	4000K	800/FT	277 V		F01-6
F01-6X	SAME AS 'F01-6,' EXCEPT PROVIDE AUTOMATIC LOAD CONTROL RELAY (ALCR).	RECESSED	57	80	9.5W/FT	4000K	800/FT	277 V		F01-6X
F01-8	SAME AS 'F01-4,' EXCEPT LENGTH.	RECESSED	76	80	9.5W/FT	4000K	800/FT	277 V		F01-8
F01-8X	SAME AS 'F01-8,' EXCEPT PROVIDE AUTOMATIC LOAD CONTROL RELAY (ALCR).	RECESSED	76	80	9.5W/FT	4000K	800/FT	277 V		F01-8X
F10-10	LINEAR DIRECT 4-INCH WIDE BY LENGTH INDICATED, AIRCRAFT CABLE, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD COLORS. INSTALL WITH BOTTOM OF FIXTURE FLUSH WITH BOTTOM OF WOOD SLATS, 0-10V DIMMING TO 10-PERCENT.	SUSPENDED	93	80	9.3W/FT	3500K	925/FT	277 V	MARK S4LD SERIES LUMENWERX VIA4 SERIES FINELITE HP-4 SERIES	F10-10
F11	CUSTOM CIRCULAR-LINEAR PENDENT, 2.5 INCH APERTURE, COMBINATION OF (2) 8 FT LINEAR & (2) 36 INCH DIAMETER 180 DEGREES CURVED SECTIONS, 40% DIRECT & 60% INDIRECT DIST., 0-10V 1% DIMMING, ALUMINUM HOUSING, WHITE FINISH, NECESSARY SUSPENSION CABLES AND MOUNTING EQUIPMENT TO BE PROVIDED.	PENDENT	143	80	4.1W/FT	4000K	455/FT	277 V	XAL CURVE 2.5 WITH BASO 2.5 SERIES (FORUM LIGHTING ARC SERIES)	F11
F20	1 BY 4-FOOT FLAT PANEL, ACRYLIC LENS, 0-10V DIMMING TO 10-PERCENT	RECESSED	40	80	40W	3500K	4000	277 V	LITHONIA CPANL1X4 SERIES  METALUX 14EP SERIES  (COLUMBIA CBT-LSCS SERIES)  2	F20
F21	SAME AS 'F20,' EXCEPT COLOR.	RECESSED	40	80	40W	4000K	4000	277 V		F21
F22	2 BY 2-FOOT FLAT PANEL, ACRYLIC LENS, 0-10V DIMMING TO 10-PERCENT	RECESSED	26	80	26W	3500K	3200	277 V	LITHONIA CPANL2X2 SERIES  METALUX 22FP SERIES  COLUMBIA CBT-LSCS SERIES	F22
F22X	SAME AS 'F22,' EXCEPT PROVIDE AUTOMATIC LOAD CONTROL RELAY (ALCR).	RECESSED	26	80	26W	3500K	3200	277 V	<b>J</b>	F22X
F23	SAME AS 'F22,' EXCEPT COLOR.	RECESSED	26	80	26W	4000K	3200	277 V		F23
F23X	SAME AS 'F23,' EXCEPT PROVIDE AUTOMATIC LOAD CONTROL RELAY (ALCR).	RECESSED	26	80	26W	4000K	3200	277 V		F23X
F24	2 BY 4-FOOT FLAT PANEL, ACRYLIC LENS, 0-10V DIMMING TO 10-PERCENT	RECESSED	60	80	60W	3500K	6400	277 V	LITHONIA EPANL24 SERIES  METALUX 24FP SERIES  ILP VPAN SERIES	F24
F24X	SAME AS 'F24,' EXCEPT PROVIDE AUTOMATIC LOAD CONTROL RELAY (ALCR).	RECESSED	60	80	60W	3500K	6400	277 V		F24X
F25	SAME AS 'F24,' EXCEPT COLOR.	RECESSED	60	80	60W	4000K	6400	277 V		F25
F25X	SAME AS 'F25' EXCEPT PROVIDE AUTOMATIC LOAD CONTROL BELAY (ALCR)	~ RECESSED~	~~~~6Q~~~~	~~~Bb~~~	~~60W~~	~4000K~	~~64Pb~~	~277~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<b>~~F25X~~</b>
F26	2 BY 2-FOOT FLAT PANEL, RGBW COLOR TUNING WITH HAND-HELD REMOTE CONTROL.	RECESSED	36	80	36W	4000K	2700-3060	277 V	BARRON RGBWFP22 SERIES	F26
F26X	SAME AS 'F26,' EXCEPT PROVIDE AUTOMATIC LOAD CONTROL RELAY (ALCR).	RECESSED	. 36	.80	36W	4000K	2700-3060	277 V		F26X
F32	SAME AS 'F26,' EXCEPT PROVIDE AUTOMATIC LOAD CONTROL RELAY (ALCR).  OPEN DOWNLIGHT, 6-INCH DIAMETER APERTURE, CLEAR SEMI-SPECULAR REFLECTOR, SELF FLANGED, 0-10V DIMMING TO  10-PERCENT, MEDIUM DISTRIBUTION.	RECESSED	15	<del>80</del>	14.5W	4000K	1100	277 V 277 V	GOTHAM EVO SERIES  PORTFOLIO LD6B SERIES  PRESCOLITE LTR6RD SERIES	F32
F32X	SAME AS 'F32,' EXCEPT PROVIDE AUTOMATIC LOAD CONTROL RELAY (ALCR).	RECESSED	15	80	14.5W	4000K	1100	277 V		F32X
F33	SAME AS 'F32,' EXCEPT COLOR.	RECESSED	15	80	14.5W	3500K	1100	277 V		F33
F60	4-FOOT LENSED INDUSTRIAL, FORMED STEEL HOUSING, WHITE FINISH, SEMI-FROST ACRYLIC DIFFUSER.	SURFACE/ CHAIN HUNG	38	80	38W	4000K	5000	277 V	LITHONIA ZL1N SERIES METALUX SNLED SERIES COLUMBIA MPS SERIES	F60
F60X	SAME AS 'F60,' EXCEPT PROVIDE AUTOMATIC LOAD CONTROL RELAY (ALCR).	SURFACE/ CHAIN HUNG	38	80	38W	4000K	5000	277 V	-	F60X
F80	HIGH BAY FIXTURE, 80 CRI, WHITE FINISH, MEDIUM DISTRIBUTION, FROSTED GLASS OPTIC, WIRE GUARD, SAFETY HOOK, AND 3-FOOT CHAIN.	SUSPENDED	191	80	191W	4000K	24000	277 V	METALUX UHB SERIES LITHONIA JEBL SERIES HOLOPHANE PHZ SERIES ILP RB3 SERIES	F80
F80X	SAME AS 'F80,' EXCEPT PROVIDE AUTOMATIC LOAD CONTROL RELAY (ALCR).	SUSPENDED	191	80	191W	4000K	24000	277 V		F80X
F82	4-FOOT INDUSTRIAL, WET-LOCATION LISTED, GASKETED, NON-METALLIC HOUSING, RIBBED FROSTED ACRYLIC SHIELDING, STAINLESS STEEL LATCHES.	SURFACE/ SURFACE WALL	47	80	47W	3500K	4850	277 V	COLUMBIA LXEM SERIES METALUX 4VT2 SERIES LITHONIA FEM SERIES	F82
X1	THERMOPLASTIC EXIT SIGN, WHITE HOUSING, AC ONLY.	UNIVERSAL	5	80	5W	RED	N/A	277 V	LITHONIA LQM SERIES SURE-LITES APX SERIES COMPASS CE SERIES	X1
X5	OUTDOOR ARCHITECTURAL LED LIGHT, DIE-CAST HOUSING, POLYCARBONATE LENS, EGRESS PATH COMPLIANT.	SURFACE WALL	11	80	11W	5000K	1050	277 V	EVENLITE WW BEGHELLI MEZZO ISOLITE ELED AC	X5

	FLOOR BOX SCHEDULE												
MARK (TAG)	CAPACITY	APPLICATION	COVER/FINISH	POWER DEVICES	IT DEVICES	AV DEVICES	CONDUITS	MANUFACTURER MODEL NUMBER					
A	4-GANG	ON-GRADE	HUBBELL ROUND CFBS1R8CVRBLK	(2) DUPLEX GFI RECEPTACLES	(2) DATA	(2) HDMI	(1) 3/4" POWER (1) 1-1/4" IT (1) 2" AV (1) 1-1/4" SPARE	HUBBELL # CFB4G30RCR WITH CFBHUB2					

1. NO CONDUIT LARGER THAN 1" SHALL BE INSTALLED IN FLOOR SLAB. ALL CONDUITS LARGER THAN 1" SHALL

7. COVERS SHALL ALLOW 180 DEGREE OPENING WITH TWO LARGE CABLE EGRESS DOORS.

8. DROVIDE NECESSARY DEVICE BLATES INSIDE BOX

COORDINATE INSTALLATION OF FLOOR BOXES WITH GENERAL TRADES AND FLOOR CONSTRUCTION. IN SOME CASES, THE BOX IS DEEPER THAN THE CONCRETE SLAB.

3. CUT AND PATCH EXISTING FLOOR SLABS AS REQUIRED TO INSTALL BOX AND CONDUITS.

ON-GRADE BOXES SHALL INCLUDE A FUSION-BONDED EPOXY PAINT FINISH TO PROTECT AGAINST CORROSION AND SHALL BE RATED FOR ON-GRADE USE.

5. COVER FINISH SHALL BE VERIFIED WITH ARCHITECT.

6. FLOOR BOXES SHALL BE UL 514A AND SCRUB WATER COMPLIANT.

8. PROVIDE NECESSARY DEVICE PLATES INSIDE BOX.

9. FLOOR BOXES SHALL BE HUBBELL "SYSTEM ONE" OR EQUAL BY WIREMOLD.

10. VERIFY EXACT LOCATION OF FLOOR BOXES WITH ARCHITECT PRIOR TO ROUGH-IN.

11. VERIFY COVER STYLE - SURFACE OR FLUSH WITH FLOOR FINISH AND ARCHITECT.

12. PROVIDE LOCKING COVER FOR FLOOR AND WALL BOXES - KEY ALIKE. CONFIRM KEYING WITH OWNER PRIOR TO ORDERING





HAMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
SCHOOL
11442 Lantern Rd, Fishers, IN 46038

SCOPE DRAWINGS:

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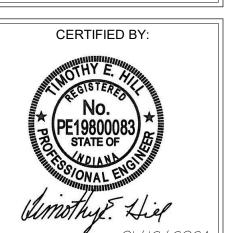
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REVISIONS: Addendum#2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY | 01/15/24 GSR DEW

DRAWING TITLE: ELECTRICAL



DRAWING NUMBER

	PH1 2	F	PAI	NE	LBOAF	RD SCHI	EDULE	ı i				
CATIC	ON MECHANICAL PENTHOUSE D144 SCCR (AMPS R	MS SYMM):	65,0	000	SERVICE :	: 480Y/277V 3Ф 4	-Wire+Ground	AMP :	600 A	MAIN	: MCB NEMA: TYPE 1 MOUNTING: SUR	RFACE
								,				
СT	DESCRIPTION	NOTE /	AMP I	POLE	Α	В	С	POLE	AMP	NOTE	DESCRIPTION	СКТ
	AIR HANDLING UNIT (AHU-1)				3875 / 5813						AIR HANDLING UNIT (AHU-2)	2
	RETURN FAN #1 - 10 HP MECHANICAL PENTHOUSE D144		25 A	3		3875 / 5813		3	40 A		RETURN FAN #1 - 15 HP MECHANICAL PENTHOUSE D144	4
	MEGNATIONE LITTIOGE D 144						3875 / 5813				WEGHANICALT ENTHOUSE D144	6
4	AIR HANDLING UNIT (AHU-1)				3875 / 5813						AIR HANDLING UNIT (AHU-2)	8
4	RETURN FAN #1 - 10 HP MECHANICAL PENTHOUSE D144		25 A	3		3875 / 5813		3	40 A		RETURN FAN #2 - 15 HP MECHANICAL PENTHOUSE D144	10
	MEGHANIOAET ENTHOUSE B144						3875 / 5813				WESTIANISAET ENTITIOGE BT44	12
-	AIR HANDLING UNIT (AHU-1)				9411 / 9411						AIR HANDLING UNIT (AHU-2)	14
-	SUPPLY FAN #1 - 25 HP MECHANICAL PENTHOUSE D144		70 A	3		9411 / 9411		3	70 A		SUPPLY FAN #1 - 25 HP MECHANICAL PENTHOUSE D144	16
	MEGINIONET ENTHOUSE D144						9411 / 9411				MEDIATIONE I ENTITIONE D144	18
4	AIR HANDLING UNIT (AHU-1)				9411 / 9411						AIR HANDLING UNIT (AHU-2)	20
4	SUPPLY FAN #2 - 25 HP MECHANICAL PENTHOUSE D144		70 A	3		9411 / 9411		3	70 A		SUPPLY FAN #2 - 25 HP MECHANICAL PENTHOUSE D144	22
	MEGHANIOAET ENTHOUSE B144						9411 / 9411				WESTIANISAET ENTITIOGE BT44	24
4	AIR HANDLING UNIT (AHU-3)				2437 / 6146						HOT WATER PUMP (HWP-A1)	26
4	RETURN FAN - 5 HP MECHANICAL PENTHOUSE D144		20 A	3		2437 / 6146	0.407.404.40	3	40 A		15 HP MECHANICAL PENTHOUSE D144	28
-	MEGHANIOAET ENTHOUSE B144						2437 / 6146				WESTIANISAET ENTITIOGE BT44	30
_	AIR HANDLING UNIT (AHU-3)				4211 / 6146						HOT WATER PUMP (HWP-A2)	32
4	SUPPLY FAN - 10 HP MECHANICAL PENTHOUSE D144		25 A	3		4211 / 6146		3	40 A		15 HP MECHANICAL PENTHOUSE D144	34
	MEGHANIONET ENTITIOGGE B 144						4211 / 6146				WEST WATCH ENTITIONSE BYTT	36
4	AIR HANDLING UNIT (AHU-3)				6150 / 0	0.450.40					00.05	38
4	SUPPLY FAN - 15 HP MECHANICAL PENTHOUSE D144	'	40 A	3		6150 / 0	0.450.40	3	20 A		SPARE	40
					0.40		6150 / 0					42
-	CDADE		70.4	2	0/0	0.40		2	20.4		CDARE	44
+	SPARE		70 A	3		0/0	0 / 0	3	30 A		SPARE	46
1			-+		0/0		0/0					50
+	SPARE		40 A	3	070	0/0		3	40 A		SPARE	52
+	OI FILE		70 /	J		070	0 / 0	3	70 /		OI AIL	54
+	SPACE			1	0/0		3,0	1			SPACE	56
	SPACE			1		0/0		1			SPACE	58
+	SPACE			1			0/0	1			SPACE	60
			TOT	ALS:	82112 VA	82112 VA	82112 VA					
	TOTAL CONNECTED LOA	<b>(VA)</b> : 24	16335 \	VΑ			L CONNECTED	LOAD	(AMPS)	: 296 A		
IARK NCH	S: WIDE PANELBOARD (INTEGRAL SPD) 2					NOTES:						

PANEL ID: CONFIGURATION: MAIN: SCCR (AMPS RMS	MDP-H 480Y/277V 3Φ 4-Wire+Ground 2500 A SYMM.): 65,000			LOCATION: ELECTRICAL ENCLOSURE: NEMA 1 TRIM: MODIFICATIONS:	D140	
NO.	Load Name	Rating	POLES	PHASE A	PHASE B	PHASE C
1	SPACE		1			
2	SPACE		1			
3	TRANSFORMER 'T-1D2'	125 A	3	53 A	54 A	59 A
4	S.P.D	100 A	3	0 A	0 A	0 A
5	SPARE	225 A	3			
6	SPARE	225 A	3			
7	PANEL '1KH1'	225 A	3	111 A	105 A	105 A
8 TRANSF	FORMER 'T-1D-K' PANELS 1KL1A/1KL1B	175 A	3	161 A	163 A	172 A
9	ATS-1D-E PANEL '1DEHDP'	100 A	3	38 A	13 A	0 A
10	ATS-1D-S	250 A	3	194 A	164 A	162 A
11	PANEL '1AH1'	225 A	3	130 A	133 A	124 A
12	PANEL '1CH1'	225 A	3	102 A	73 A	78 A
13	PANEL '1DH1'	225 A	3	47 A	47 A	42 A
14	PANEL '1DH2'	225 A	3	104 A	104 A	104 A
15	PANEL '2AH1'	225 A	3	13 A	12 A	9 A
16	PANEL '2CH1'	225 A	3	102 A	90 A	92 A
17	SPARE	400 A	3			
18	SPARE	400 A	3			
19	PANEL 'PH1'	600 A	3	296 A	296 A	296 A
20	CHILLER (CH-A1)	600 A	3	400 A	400 A	400 A
21	CHILLER (CH-A2)	600 A	3	400 A	400 A	400 A
TOTAL LOAD (VA): REMARKS:	1727829 VA	TOTAL LOAD (A):		2078 A		

PENTHOUSE / MECHANICAL MEZZANINE

**EMERGENCY** 

1DEHDP PANELBOARD SCHEDULE LOCATION: ELECTRICAL D140 SCCR (AMPS RMS SYMM): 65,000 SERVICE: 480Y/277V 3Φ 4-Wire+Ground AMP: 100 A MAIN: MCB NEMA: TYPE 1 MOUNTING: SURFACE NOTE AMP POLE A B C POLE AMP NOTE DESCRIPTION PANEL '1AEH1' PANEL '2AEH1' 60 A 3 PANEL '1CEH1' PANEL '2CEH1' 1930 / 500 TRANSFORMER 'T-1D-E' PANEL '1DEL1' PANEL '1DEH1' 60 A 3 SPARE SPARE SPACE SURGE PROTECTION DEVICE (SPD) TOTALS: 9965 VA 3172 VA 38 VA TOTAL CONNECTED LOAD (AMPS): 16 A TOTAL CONNECTED LOAD (VA): 13174 VA

	1DEH1		PA	NE	LBOAF	RD SCHI	EDULE						
LOCA	FION: ELECTRICAL D140 SCCR (AMPS R	MS SYMN	l): 65	,000	SERVICE	: 480Y/277V 3Ф 4	-Wire+Ground	AMP:	60 A	MAIN :	: MCB <b>NEMA</b> : Type	MOUNTING: SURF	ACE
СКТ	DESCRIPTION	NOTE	AMP	POLE	A	В	С	POLE	AMP	NOTE	DESCRI	PTION	СК
1	LIGHTING EMER. 1ST FLOOR AREA D		20 A	1	1242 / 688			1	20 A		LIGHTING EMER EXTE	ERIOR ABOVE DOORS	2
3	LIGHTING EMER. 1ST FLOOR AREA D		20 A	1		2413 / 0		1	20 A		SPA	RE	4
5	SPARE		20 A	1			0/0	1	20 A		SPA	RE	6
7	SPARE		20 A	1	0/0			1	20 A		SPA	RE	8
9	SPARE		20 A	1		0/0		1	20 A		SPA	RE	10
11	SPARE		20 A	1			0/0	1	20 A		SPA	RE	12
			TO	ΓALS :	1930 VA	2413 VA	0 VA						
	TOTAL CONNECTED LOA	ND (VA) :	4343 V	A		TOTA	L CONNECTED	LOAD (	AMPS)	): 5 A			
REMA	RKS:					NOTES:							
INTEG	RAL SPD.												

EL1		PA	NEI	_BOAR	RD SCHE	EDULE					
CTRICAL D140	SCCR (AMPS RMS SYMN	<b>/I):</b> 22	2,000	SERVICE :	208Y/120V 3Ф 4-	-Wire+Ground	AMP:	60 A	MAIN: MCB	NEMA: Type 1	MOUNTING: SURFACE
DESCRIPTION	NOTE	AMP	POLE	Α	В	С	POLE	AMP I	NOTE	DESCRIPTIO	ON CKT
FACP - ELECTRICAL	. D140	20 A	1	500 / 0			1	20 A		SPARE	2
SPARE		20 A	1		0/0		1	20 A		SPARE	4
SPARE		20 A	1			0/0	1	20 A		SPARE	6
SPARE		20 A	1	0/0			1	20 A		SPARE	8
SPARE		20 A	1		0/0		1	20 A		SPARE	10
SPARE		20 A	1			0/0	1	20 A		SPARE	12
		TO.	TALS :	500 VA	0 VA	0 VA	Т				
	DESCRIPTION FACP - ELECTRICAL SPARE SPARE SPARE SPARE SPARE	DESCRIPTION NOTE FACP - ELECTRICAL D140 SPARE SPARE SPARE SPARE SPARE	DESCRIPTION         NOTE         AMP           FACP - ELECTRICAL D140         20 A           SPARE         20 A	DESCRIPTION         NOTE         AMP         POLE           FACP - ELECTRICAL D140         20 A         1           SPARE         20 A         1	DESCRIPTION         NOTE         AMP         POLE         A           FACP - ELECTRICAL D140         20 A 1         500 / 0           SPARE         20 A 1         500 / 0           SPARE         20 A 1         0 / 0	DESCRIPTION         NOTE         AMP         POLE         A         B           FACP - ELECTRICAL D140         20 A         1         500 / 0           SPARE         20 A         1         0 / 0	DESCRIPTION         NOTE         AMP         POLE         A         B         C           FACP - ELECTRICAL D140         20 A         1         500 / 0           SPARE         20 A         1         0 / 0	DESCRIPTION         NOTE         AMP         POLE         A         B         C         POLE           FACP - ELECTRICAL D140         20 A         1         500 / 0         1           SPARE         20 A         1         0 / 0         1	DESCRIPTION         NOTE         AMP         POLE         A         B         C         POLE         AMP         I           FACP - ELECTRICAL D140         20 A         1         500 / 0         1         20 A         1 <td>DESCRIPTION         NOTE         AMP         POLE         A         B         C         POLE         AMP         NOTE           FACP - ELECTRICAL D140         20 A         1         500 / 0         1         20 A         1</td> <td>DESCRIPTION         NOTE AMP POLE         A         B         C         POLE AMP NOTE         DESCRIPTION           FACP - ELECTRICAL D140         20 A         1         500 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE</td>	DESCRIPTION         NOTE         AMP         POLE         A         B         C         POLE         AMP         NOTE           FACP - ELECTRICAL D140         20 A         1         500 / 0         1         20 A         1	DESCRIPTION         NOTE AMP POLE         A         B         C         POLE AMP NOTE         DESCRIPTION           FACP - ELECTRICAL D140         20 A         1         500 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE           SPARE         20 A         1         0 / 0         1         20 A         SPARE

	1CEH1		PA	NE	LBOAF	RD SCH	<b>EDULE</b>							
LOCAT	TION: ELECTRICAL C125 SCCR (AMPS F	RMS SYMM	<b>l):</b> 65	,000	SERVICE	: 480Y/277V 3Ф 4	-Wire+Ground	AMP:	60 A	MA	IN: MCB	NEMA: Type 1	MOUNTING: SURF	ACE
СКТ	DESCRIPTION	NOTE	AMP	POLE	A	В	С	POLE	AMP	NOTE		DESCRIPTI	ION	СКТ
1	LIGHTING EMER. 1ST FLOOR AREA B		20 A	1	800 / 1082			1	20 A		LIG	HTING EMER. 1ST F	LOOR AREA C	2
3	LIGHTING ELEVATOR B125	G	20 A	1		94 / 0		1	20 A			SPARE		4
5	LIGHTING ACCESS B124	G	20 A	1			38 / 0	1	20 A			SPARE		6
7	SPARE		20 A	1	0/0			1	20 A			SPARE		8
9	SPARE		20 A	1		0/0		1	20 A			SPARE		10
11	SPARE		20 A	1			0/0	1	20 A			SPARE		12
			TO	TALS:	1882 VA	94 VA	38 VA							
	TOTAL CONNECTED LOA	AD (VA) : 2	2014 V	A		TOTA	L CONNECTED	LOAD	(AMPS)	: 2 A				
REMAF INTEGE	RKS: FRAL SPD.					NOTES: G - GFCI TYPE (	CIRCUIT BREAK	KER.						

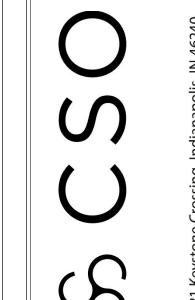
	2CEH1		PA	NEI	LBOAF	RD SCH	<b>EDULE</b>						
LOCA	TION: ELECTRICAL C222 SCCR	(AMPS RMS SYMM	): 65	,000	SERVICE	: 480Y/277V 3Ф	4-Wire+Ground	AMP:	60 A	MAIN: MCB	NEMA: Type 1	MOUNTING: SU	RFACE
СКТ	DESCRIPTION	NOTE	AMD	lpoi el	Α	В	Тс	IDOL I	E AMP	NOTE	DESCRIPT	ION	СКТ
1	LIGHTING EMER. 2ND FLOOR AF		20 A	1	1203 / 940	В	C	1	20 A		GHTING EMER. 2ND		2
3	SPARE		20 A	1	.2007010	0/0		1	20 A		SPARE		4
5	SPARE		20 A	1			0/0	1	20 A		SPARE		6
7	SPARE		20 A	1	0/0			1	20 A		SPARE		8
9	SPARE		20 A	1		0/0		1	20 A		SPARE		10
11	SPARE		20 A	1			0/0	1	20 A		SPARE		12
						1 01/0	1 6176						
	TOTAL CONNEC	CTED LOAD (VA): 2		T <b>ALS</b> :	2142 VA	0 VA	0 VA AL CONNECTE	LOAD	(AMPS)	: 3 A			
REMA INTEG	RKS: RAL SPD.					NOTES:							

LOCA	TION: ELECTRICAL A135 SCCR (AMPS	<b>RMS SYMM):</b> 65,00	00	SERVICE :	: 480Y/277V 3Φ 4	-Wire+Ground	AMP:	60 A	MAII	N: MCB NEMA: Type 1	MOUNTING: SUF	(FACE
СКТ	DESCRIPTION	NOTE AMP P	OLE	Α	В	С	POLE	AMP	NOTE	DESCRIP	TION	С
1	LIGHTING EMER. 1ST FLOOR AREA A	20 A	1	1180 / 833			1	20 A		LIGHTING EMER. 1ST	FLOOR AREA A	
3	SPARE	20 A	1		0/0		1	20 A		SPAR	E	
5	SPARE	20 A	1			0/0	1	20 A		SPAR	E	
7	SPARE	20 A	1	0/0			1	20 A		SPAR	E	
9	SPARE	20 A	1		0/0		1	20 A		SPAR	E	1
11	SPARE	20 A	1			0/0	1	20 A		SPAR	E	
		TOTA	LS:	2013 VA	0 VA	0 VA						
	TOTAL CONNECTED LO	<b>DAD (VA)</b> : 2013 VA			TOTA	L CONNECTE	D LOAD	(AMPS)	: 2 A			
REMA	RKS:				NOTES:							

REMOTE S.P.D. CURRENT TECHNOLOGY TG3 SERIES.

RIPTION CF MECH. PENT. D144 2 PARE 4
. MECH. PENT. D144 2
PARE 4
PARE 6
PARE 8
PARE 1
PARE 1:
_









HAMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL

11442 Lantern Rd, Fishers, IN 46038

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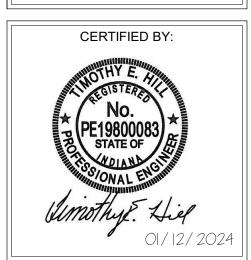
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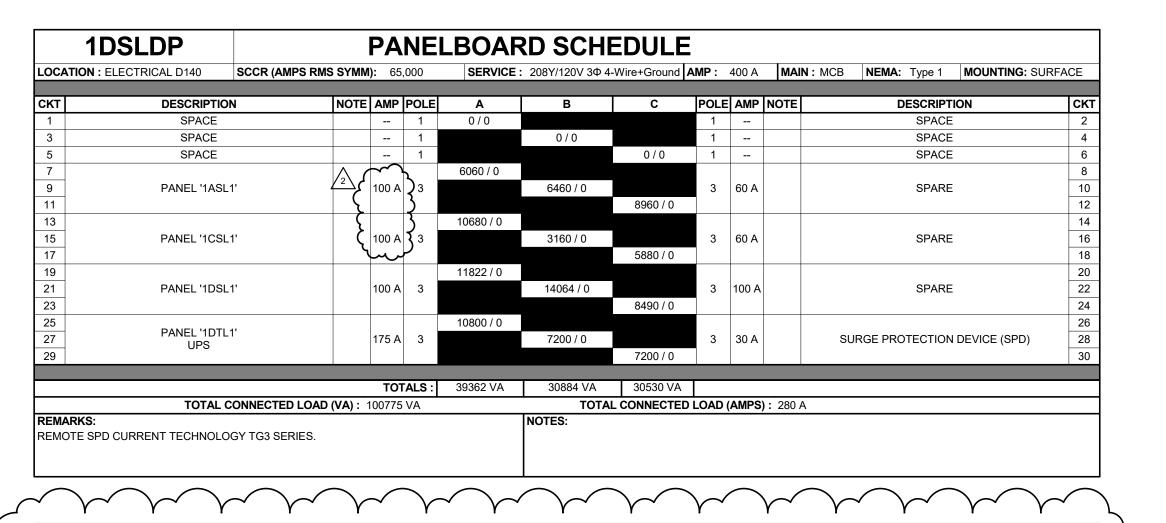
**REVISIONS:** Addendum#2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY | 01/15/24 GSR DEW

DRAWING TITLE: SCHEDULES -PANELBOARDS -MEZZANINE, & **EMERGENCY** 



DRAWING NUMBER E611



	1DSH1		Р	AN	IEL	BOAF	RD SCH	<b>EDULE</b>						
LOCATION	: ELECTRICAL D140	SCCR (AMPS	RMS SYMM):	65,00	00	SERVICE	: 480Y/277V 3Ф 4	-Wire+Ground	AMP:	250 A	MAIN: MCB	NEMA: TYPE 1	MOUNTING: SU	IRFACE
СКТ	DESCRIPTIO	N	NOTE A	MP P	OLE	A	В	С	POLE	AMP	NOTE	DESCRIPTI	ON	С
1	SPACE				1	0/0			1			SPACE		
3	SPACE				1		0/0		1			SPACE		
5	SPACE				1			0/0	1			SPACE		
7	SPARE		20	20 A	1	0/0			1	20 A		SPARE		
9	SPARE		20	20 A	1		0/0		1	20 A		SPARE		1
11	SPARE		20	20 A	1			0/0	1	20 A		SPARE		1
13						14393 / 0								1
15	ELEVATOR (40	ELEVATOR (40 HP) ACCESS B124	12	25 A	3		14393 / 0		3	60 A		SPARE		1
17	ACCESS B12				·			14393 / 0						1
19						39362 / 0								2
21	TRANSFORMER ' PANEL '1DSLI		17	75 A	3		30884 / 0		3	30 A	S	SURGE PROTECTION	DEVICE (SPD)	2
23	FANLL IDOLL	) F						30530 / 0						2
				TOTAL	LS:	53755 VA	45277 VA	44923 VA						
		CONNECTED LO	<b>DAD (VA)</b> : 143	3955 V	4			L CONNECTED	LOAD	(AMPS)	: 173 A			
REMARKS:							NOTES:							

	1DSL1		P	<b>ANE</b>	<b>LBOAF</b>	RD SCH	<b>EDULE</b>	ı						
LOCATION	N: ELECTRICAL D140	SCCR (AMPS RM	IS SYMM):	22,000	SERVICE	: 208Y/120V 3Ф 4	-Wire+Ground	AMP:	100 A	MA	IN: MLO	NEMA: TYPE	1 <b>MOUNTING:</b> SURF	FACE
								,						
СКТ	DESCRIPTION		NOTE AN	_		В	С	POLE		NOTE		DESCR		СКТ
1	DOOR HARDWARE D1	, -	20		200 / 500			1	20 A	ζĜ			/LIGHTS - KITCHEN D10	
3	DOOR OPERATOR D1	00, D101	20			360 / 384		1	20 A	\ G \			VER COILS - KITCHEN	
5	DOOR OPERATOR D1	05, D110	20	A 1			360 / 180	1	20 A	ζGξ	WALK-IN	FREEZER HEAT	TRACE - KITCHEN D10	08 6
7	DOOR HARDWARE D1	105, D110	20	A 1	400 / 500			1	20 A	(G)	WALK-IN F	FREEZER DOOF	R/LIGHTS - KITCHEN D10	8 80
9	DOOR OPERATOR D1	06, D130	20	A 1		720 / 1664		2	25 A		FREE	ZER BI OWER (	COIL - KITCHEN D108	10
11	DOOR HARDWARE D106,	, D125, D130	20	A 1			600 / 1664		207	/21		ZEN BLOWEN	JOIL - KIT OHEN D 100	12
13	TCP MECHANICAL I	D110C	20	A 1	1000 / 1976			2	30 A		EDEE.	ZED OLITDOOL	R CONDENSING UNIT	14
15	TCP MECHANICAL I	D110D	20	A 1		1000 / 1976			30 A		INLL	2LIX - 001D001	CONDENSING UNIT	16
17	TCP STORAGE D	118	20	A 1			1000 / 1186	_ 2	20 A		COOL	LED OLITHOOD	CONDENSING UNIT	18
19	DOOR HARDWARE ELECT	TRICAL D123	20	A 1	2000 / 1186				20 A		0001	LLIX - OUTDOOR	CONDENSING UNIT	20
21	TCP MECHANICAL	D123	20	A 1		1000 / 1440		1	15 A		EXHAUST	THOOD CONTR	OLS/LIGHTS - KITCHEN.	22
23	TCP MECHANICAL	D123	20	A 1			1000 / 600	1	20 A			`	/ALVE) - KITCHEN D108	- 1
25	TCP MECHANICAL	D123	20	A 1	1000 / 600			1	20 A	~~	EXHAUST	HOOD VEINE SI	TABBESSIONT - KITCHE	~26
27	TCP MECHANICAL	D123	20	A 1		1000 / 1000		<b>(</b> 1	20 A	7	EMER	GENCY SHUTO	F MECHANICAL D123	28
29	TCP MECHANICAL	D123	20	A 1			1000 / 0	7	20 X	<u> </u>	<u> </u>		ME COLUMN	~~~
31	RECEPT MECHANICA	AL D123	20	A 1	180 / 2080				75.4	~ ~	$\sim$			32
33	RECEPT MECHANICA	AL D123	20	A 1		180 / 2080		(کر	25 A		ى سىد سا	DS-A/ACCU-A 1		34
35	RECEPT D123, D	124	20	A 1			900 / 0		20.4		$\sqrt{2}$	•		<del>- 36</del>
37	DOOR HARDWARE ELEC	TRICAL D140	20	A 1	200 / 0			2	30 A			SPA	ARE	38
39	RECEPT ELECTRICAL D14	40 INT & EXT	20	A 1		1260 / 0		0	00.4			00/	DE	40
41	SPARE		20	A 1			0/0	2	20 A			SPA	AKE	42
				OTALS:	11822 VA	14064 VA	8490 VA							
REMARKS		ONNECTED LOAD	<b>) (VA)</b> : 3437	5 VA		NOTES:	L CONNECTED	LOAD	AMPS	): 95 A	١			

G - GFCI TYPE CIRCUIT BREAKER.

INTEGRAL SPD.

FED FROM FEED-THRU LUGS IN PANEL '1KL1A'. 28-INCH WIDE ENCLOSURE.

OCAT	ION: ELECTRICAL C125 SCCR (AMPS RI	MS SYMM	<b>):</b> 22,	000	SERVICE	: 208Y/120V 3Ф 4	-Wire+Ground	AMP :	100 A	MAI	N: MCB   NEMA: Type 1   MOUNTING: SURF	ACE
СКТ	DESCRIPTION	NOTE	AMP	POLE	Α	В	С	POLI	E AMP	NOTE	DESCRIPTION	СК
1	RECEPT ACTIVITY COMMONS B120		20 A	1	360 / 360			1	20 A		RECEPT ACTIVITY COMMONS C120	2
3	RECEPT ACCESS B124		20 A	1		180 / 360		1	20 A		RECEPT ELECTRICAL C125	4
5	CAB LIGHTING ACCESS B124	G	20 A	1			1000 / 360	1	20 A		RECEPT ACTIVITY COMMONS C220	6
7	RECEPT ELEVATOR B125		20 A	1	180 / 6000			1	20 A		DOOR HARDWARE 1ST FLOOR AREA C	8
9	RECEPT ELEVATOR B125		20 A	1		180 / 0		1	20 A		SPARE	10
11	DOOR OPERATORS B127, B130		20 A	1			360 / 0	1	20 A		SPARE	12
13	DOOR HARDWARE 1ST FLOOR AREA B		20 A	1	1700 / 0			1	20 A		SPARE	14
15	RECEPT ACTIVITY COMMONS B220		20 A	1		360 / 0		1	20 A		SPARE	16
17	SPARE		20 A	1			0/0	1	20 A		SPARE	18
19	SPARE		20 A	1	0/0			1	20 A		SPARE	20
21	SPARE		20 A	1		0/0		1	20 A		SPARE	22
23	DS-A/ACCU-A TECH C126		25 A	2			2080 / 0	1	20 A		SPARE	24
25	D3-A/ACCO-A TECHCIZO		23 A	2	2080 / 0			1	20 A		SPARE	26
27	DS-A/ACCU-A TELECOM C224		25 A	2		2080 / 0		1	20 A		SPARE	28
29	DO-A/ACCO-A TELECOM C224		20 /	2			2080 / 0	1	20 A		SPARE	30
								•				
				ALS:	10680 VA	3160 VA	5880 VA					
	TOTAL CONNECTED LOA	D (VA) : ^	19720 \	/A			L CONNECTED	LOAD	(AMPS)	: 55 A		
R <b>EMAR</b> NTEGF	IKS: RAL SPD.					NOTES: G - GFCI TYPE (	CIRCUIT BREAK	ER				

		1ASL1			PA	NE	LBOAF	RD SCH	<b>EDULE</b>		_ <del>_</del>	2					
L	OCA	TION: ELECTRICAL A135	SCCR (AMPS RMS	SYMM	<b>):</b> 22,	000	SERVICE	208Y/120V 3Ф	4-Wire+Ground	MP : (	100 A	MAI	N: MCB	NEMA: Type 1	MOUNTING: S	SURFACI	Ξ
											كرك						
	KT	DESCRIPTION	1	NOTE	AMP	POLE	Α	В	С	POLE	AMP	NOTE		DESCRIPT	ION	C	KT
L	1	DOOR HARDWARE A1	00, A101		20 A	1	720 / 360			1	20 A			DOOR HARDWARE	A139, A140		2
L	3	DOOR PANIC A101, A119, A123,	A131, A134, A140		20 A	1		1300 / 360		1	20 A		RE	CEPT NW & S MEC	HANICAL D144		4
L	5	RECEPT RECEPTION	N A102		20 A	1			1440 / 360	1	20 A		RE	CEPT NE & SW ME	CHANICAL D144		6
L	7	RECEPT OFFICE A	A105		20 A	1	360 / 1000			1	20 A		TC	P AHU-1 MECHANIC	CAL MEZZ D144		8
	9	RECEPT NURSE A	A106		20 A	1		360 / 1000		1	20 A		TC	P AHU-2 MECHANIC	CAL MEZZ D144		10
	11	REFRIGERATOR EXA	M A107	G	20 A	1			1000 / 1000	1	20 A		TC	P AHU-3 MECHANIO	CAL MEZZ D144		12
	13	RECEPT ELECTRICAL A135,	, TOILET A136		20 A	1	540 / 1000			1	20 A			P AHU-4 MECHANIC			14
	15	RECEPT ACTIVITY COMM	MONS A220		20 A	1		360 / 1000		1	20 A	$\sim$	<b>₹</b> \$₽‡	W-8YSTEMMECH	WHEAT MEZZ DA	44~	16
Г	17	SPARE			20 A	1			0 / 1000	(1	20 A			ILER EMERGENCY	SHUTOFF D144		18
Г	19	SPARE			20 A	1	0/0			$\rightarrow$	20 A	سر		SPARE		سسر	20
	21	SPARE		\	20 A	1		0/0		1	20 A			SPARE			22
	23	DS-A/ACCU-A TELECO		~~~	25 A	$\sim$			2080 / 0	1	20 A			SPARE			24
Г	25	DS-A/ACCU-A TELECC	JIVI A 120		25 A	2 }	2080 / 0			1	20 A			SPARE			26
Г	27	DS A/ACCU A TELECO	NA A 224		25.4	3 }		2080 / 0		1	20 A			SPARE			28
L	29	DS-A/ACCU-A TELECO	)    A224 	سا	25 A	ر2			2080 / 0	1	20 A			SPARE			30
					TOT	ALS:	6060 VA	6460 VA	8960 VA								
		TOTAL CO	ONNECTED LOAD	(VA) : 2	21480 V	Ά		TOTA	AL CONNECTED	LOAD	(AMPS)	: 60 A					
1		RKS: FRAL SPD.						NOTES: G - GFCI TYPE	CIRCUIT BREAK	ER							

STANDBY

KITCHEN

	1KL1B		PA	NEI	LBOAF	RD SCH	EDULE				2	
LOCAT	ION: KITCHEN D108 SCCR	(AMPS RMS SYMM	l): 22	,000	SERVICE	: 208Y/120V 3Ф 4-	Wire+Ground A	MP:	400 A	MAI	N:(MCB)   NEMA: TYPE 4X   MOUNTING: RECES	SED
CKT	DESCRIPTION	NOTE	AMP	POLE	Α	В	С	POLE	AMP	NOTE	DESCRIPTION	СКТ
1	SPARE		20 A	1	0/0			1	20 A		SPARE	2
3	SPARE		20 A	1		0/0		1	20 A		SPARE	4
5	SPARE		20 A	1			0/0	1	20 A		SPARE	6
7	ITEM WOOL COMPLOYEN				5278 / 180			1	20 A	1	CONVECTION OVEN CONTROL - KITCHEN D108	8
9	ITEM #20 - COMBI OVEN KITCHEN D108	1	60 A	3		5278 / 0		1			SHUNT TRIP	10
11	KITOHEN B100						5278 / 360	1	20 A		CONTROL CIRCUIT - MAKEUP AIR UNIT - KITCH	12
13	SHUNT TRIP			1	0 / 900			1	20 A		ITEM #46 - SERVING LINE COUNTER DCO	14
15						5278 / 932			00.4		ITEM #48.1 - DROP-IN HOT WELL (WEST)	16
17	ITEM #21 - COMBI OVEN KITCHEN D108	1	60 A	3			5278 / 932	2	20 A		SERVING D107	18
19	KITCHEN D100				5278 / 839				00.4		ITEM #54.1 - DROP-IN HOT/COLD WELL (WEST)	20
21	SHUNT TRIP			1		0 / 839		2	20 A		SERVING D107	22
23							3838 / 900	1	20 A		ITEM #49.1 BREATH GUARD - SERV. COUNTER	24
25	ITEM #22 - TILTING SKILLET KITCHEN D108	1	40 A	3	3838 / 360			1	20 A		ITEM #57 - SERVING COUNTER D107	26
27	KITCHEN D106					3838 / 932					ITEM #48.2 - DROP-IN HOT WELL (EAST)	28
29	SHUNT TRIP			1			0 / 932	2	20 A		SERVING D107	30
31					5278 / 839						ITEM #54.2 - DROP-IN HOT/COLD WELL (WEST)	32
33	ITEM #23 - COMBI OVEN	1	60 A	3		5278 / 839		2	20 A		SERVING D107	34
35	KITCHEN D108						5278 / 900	1	20 A		ITEM #49.2 BREATH GUARD - SERV. COUNTER	36
37	SHUNT TRIP			1	0 / 360			1	20 A		ITEM #44.1 - DROP-IN FROST TOP - SERVING	38
39						6000 / 900		1	20 A		ITEM #47.1 BREATH GUARD - SERV. COUNTER	40
41	ITEM #24 - CONVECTION OVE	EN 1	70 A	3			6000 / 360	1	20 A		ITEM #44.2 - DROP-IN FROST TOP - SERVING	42
43	KITCHEN D108				6000 / 900			1	20 A		ITEM #47.2 BREATH GUARD - SERV. COUNTER	44
45	SHUNT TRIP			1		0 / 900		1	20 A		ITEM #56 - DOUBLE-SIDED BREATH GUARD	46
47	27.27.7					0,000	3263 / 1200	1	20 A		ITEM #50 - DROP-IN COLD WELL UNIT - SERV	48
49	ITEM #25 - TILTING SKILLET	1	40 A	3	3263 / 0			1	20 A		SPARE	50
51	KITCHEN D108					3263 / 0		1	20 A		SPARE	52
53	SHUNT TRIP			1			0/0	1	20 A		SPARE	54
			TO	TALS :	33311 VA	34276 VA	34519 VA					
	TOTAL CONNEC	TED LOAD (VA) :	102106	VA		TOTAL	CONNECTED	LOAD	(AMPS)	: 283	Α	

1. PROVIDE SHUNT TRIP BREAKER.

UCA	ATION: KITCHEN D108 SCCR (AMPS RMS	S STIVIIVI	). 22	.,000	SERVICE .	208Y/120V 3Φ 4	-vvire+Ground   7	AIVIP .	400 A	IVIA	N: MCB   NEMA: TYPE 4X   MOUNTING: Recess	seu
кт	DESCRIPTION	NOTE	AMP	POLE	Α	В	С	POLE	AMP	NOTE	DESCRIPTION	СКТ
1	SPARE		20 A	1	0/0			1	20 A		SPARE	2
3	SPARE		20 A	1		0 / 0		1	20 A		SPARE	4
5	SPARE		20 A	1			0/0	1	20 A		SPARE	6
7	OUTDOOR RECEPT (BY CONDENSING UNITS)		20 A	1	180 / 708			1	20 A		2-DOOR PASS-THRU REFRIG (ITEM 42) - KITCHE	. 8
9	WASHER - KITCHEN D108		20 A	1		1488 / 180		1	20 A		NORTH GEN. RECEPT (DR2A) - KITCHEN D108	10
11	DDVED WITCHEN D400		20.4				2288 / 816	1	20 A		MILK COOLER (WEST - ITEM 53) - SERVING LINE	12
13	DRYER - KITCHEN D108		30 A	2	2288 / 816			1	20 A		MILK COOLER (EAST - ITEM 53) - SERVING LINE	14
15	DRYER BOOSTER EXHAUST FAN		20 A	1		850 / 180		1	20 A		EAST GEN. RECEPT (DR1A) - DRY STORAGE	16
17	JANITOR RECEPT - KITCHEN D108		20 A	1			180 / 811		00.4		WEST HEATED CABINET (ITEM #41) - KITCHEN	18
19	RECEPTS - OFFICE D110B		20 A	1	720 / 811			2	20 A		D108	20
21	RECEPTS - LOCKERS/RESTROOM - KITCHEN		20 A	1		720 / 811			00.4		EAST HEATED CABINET (ITEM #41) - KITCHEN	22
23	WEST ISLAND - CIRC. #1 - KITCHEN D108		20 A	1			540 / 811	2	20 A		D108	24
25	WEST ISLAND - CIRC. #2 - KITCHEN D108		20 A	1	540 / 456			1	20 A		1-DOOR PASS-THRU REFRIG. (ITEM 43)	26
27	INTEGERIORAND OFFICE WAS ARTERIOR					2288 / 540		1	20 A		MOTORIZED DOOR (DISHWASH) - KITCHEN D108	28
29	WEST ISLAND - CIRC. #3 - KITCHEN D108		30 A	2			2288 / 540	1	20 A		MOTORIZED DOOR - SERVING D107	30
31	EAST ISLAND - CIRC. #1 - KITCHEN D108		20 A	1	540 / 600			1	20 A		EXHAUST FAN (EF-K2) - KITCHEN RESTROOM	32
33	EAST ISLAND - CIRC. #2 - KITCHEN D108		20 A	1		540 / 864		1	20 A		EXHAUST FAN (KEF-33) - DISHMACHINE	34
35							2288 / 180	1	20 A		RECEPTACLE AT MAKEUP AIR UNIT - ROOF	36
37	EAST ISLAND - CIRC. #3 - KITCHEN D108		30 A	2	2288 / 0			1	20 A		SPARE	38
39						811 / 0		1	20 A		SPARE	40
41	ICE MAKER (ITEM #25) - KITCHEN D108		20 A	2			811 / 0	1	20 A		SPARE	42
43					720 / 0			1	20 A		SPARE	44
45	GARBAGE DISPOSER (EAST ISLAND) KITCHEN D108		20 A	3		720 / 0		1	20 A		SPARE	46
47	KITCHEN D 100						720 / 0	2	20.4		CDADE	48
49	CARRAGE RIGHTS (RIGHTMARK) ANTOLIEN				720 / 0			2	20 A		SPARE	50
51	GARBAGE DISPOSER (DISHWASH) - KITCHEN D108		20 A	3		720 / 0		2	30 A		SPARE	52
53	2.00						720 / 0		30 A		SFAILE	54
				Ţ								
				TALS :	44698 VA	44988 VA	47512 VA					
	TOTAL CONNECTED LOAD	(VA) : 1	137197	' VA			L CONNECTED	LOAD (	(AMPS)	: 381	A	
	ARKS:					NOTES:	$\sim$					
FFD.	-THRU LUGS TO PANEL '1KL1B'. INTEGRAL SPD. 2	8-INCH	WIDE	ENCLOS	UKE.	I.	<b>\</b> /	\				

PANELBOARD SCHEDULE

1KL1A

OCATIO	N: KITCHEN D108 SCCR (AMPS RN	IS SYMM	): 65	,000	SERVICE	: 480Y/277V 3Ф 4-	Wire+Ground #	AMP:	225 A	MAIN: MCB	NEMA: TYPE 4X MOUNTING	G: RECESSED
СКТ	DESCRIPTION	NOTE	AMP	POLE	A	В	С	POLE	AMP	NOTE	DESCRIPTION	СКТ
1	LIGHTING		20 A		1704 / 0			1	20 A		SPARE	2
3	SPARE		20 A	1		0/0		1	20 A		SPARE	4
5	SPARE		20 A	1			0/0	1	20 A		SPARE	6
7	SPARE		20 A	1	0/0			1	20 A		SPARE	8
9	SPARE		20 A	1		0/0		1	20 A		SPARE	10
11	SPARE		20 A	1			0/0	1	20 A		SPARE	12
13	SPARE		20 A	1	0/0			1	20 A		SPARE	14
15	SPARE		20 A	1	-	0/0		1	20 A		SPARE	16
17	SPARE		20 A	1			0/0	1	20 A		SPARE	18
19					0/0			1			SPACE	20
21	SPARE		20 A	3		0/0		1			SPACE	22
23							0/0	1			SPACE	24
25					3571 / 0			1			SPACE	26
27	KITCHEN EXHAUST HOOD EXHAUST FAN		20 A	3		3571 / 0		1			SPACE	28
29	KITCHEN D108						3571 / 0	1			SPACE	30
31					2353 / 0			1			SPACE	32
33	KITCHEN MAKEUP AIR UNIT (MAU-26)		15 A	3		2353 / 0		1			SPACE	34
35	KITCHEN D108						2353 / 0	1			SPACE	36
37					4346 / 18822							38
39	DISH MACHINE BLOWER DRYER		20 A	3		4346 / 18822		3	90 A		DISH MACHINE	40
41	KITCHEN D108						4346 / 18822				KITCHEN D108	42
			TOT	ALS:	30796 VA	29092 VA	29092 VA					
	TOTAL CONNECTED LOAI	O (VA) : 8	88979 \	/A		TOTAL	CONNECTED	LOAD	(AMPS	): 107 A		
REMARK	S:					NOTES:						

KITCHEN

**TELECOM** 

> ISSUE DATE | DRAWN BY | CHECKED BY 01/15/24 GSR DEW

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

Addendum#2 02/02/2024

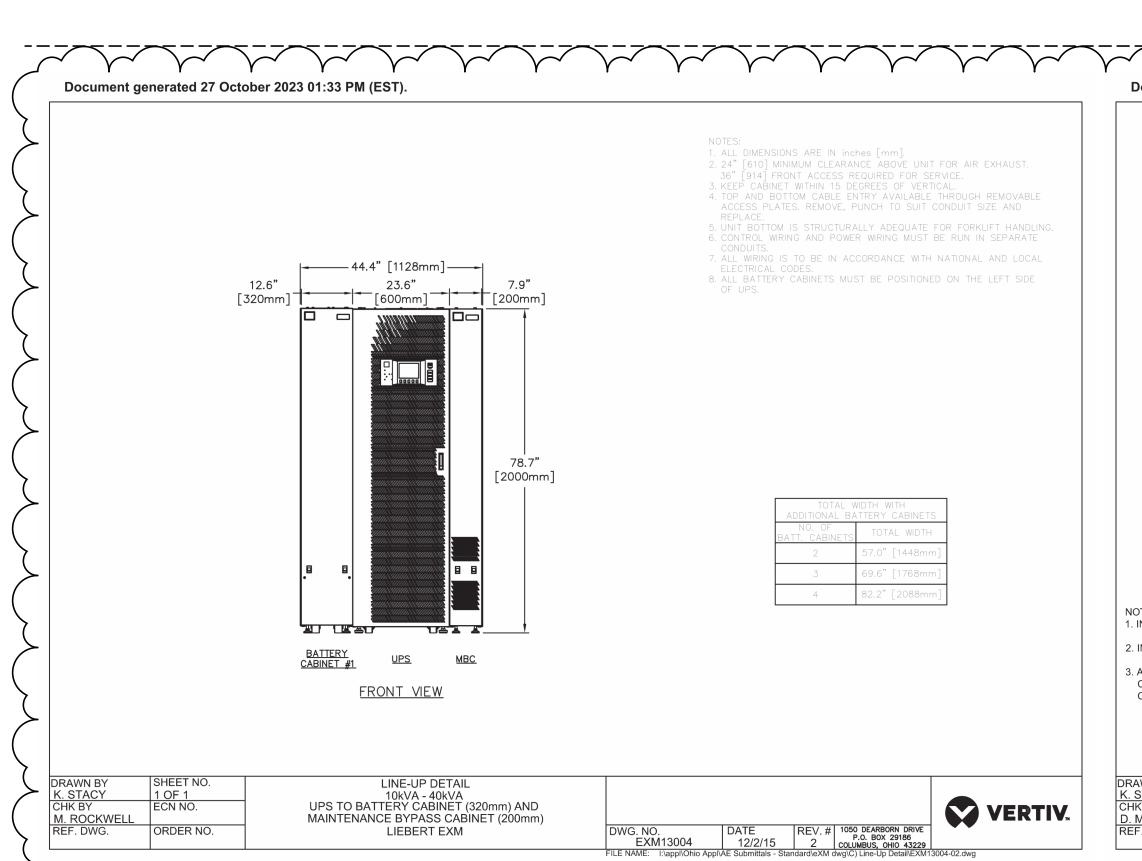
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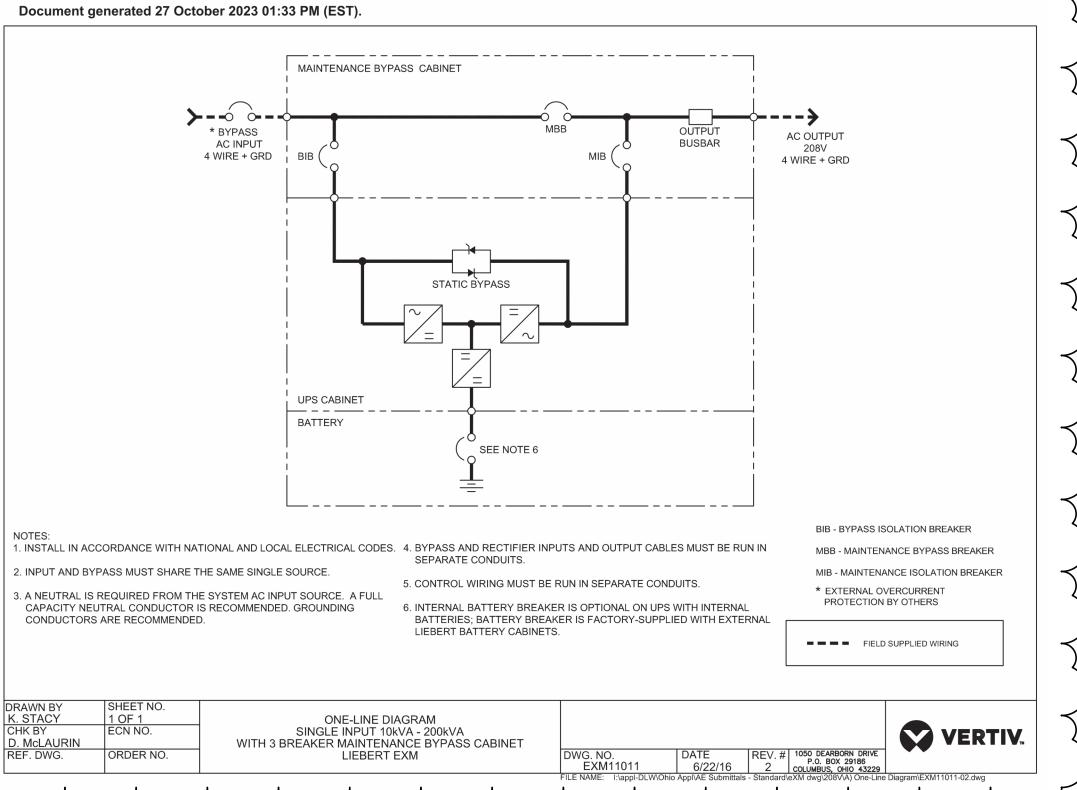
Hamilton
Southeastern
Schools

DRAWING TITLE: SCHEDULES -PANELBOARDS -STANDBY, TELECOM, **KITCHEN** 

CERTIFIED BY:

DRAWING NUMBER





LOCATION	: TELECOM D139	SCCR (AMPS R	MS SYMM): 22,00	00	SERVICE :	208Y/120V 3Ф 4	4-Wire+Ground	AMP :	150 A	MAIN: MCI	B NEMA: Type 1	MOUNTING: SURFACE
СКТ	DESCRIPTIO	N	NOTE AMP P	OLE	Α	В	С	POL	E AMP	NOTE	DESCRIPTIO	n ck
1	RECEPT TECH	C126	20 A	1	1800 / 1800			1	20 A		RECEPT TELECOM	M A224 2
3	RECEPT TECH	C126	20 A	1		1800 / 1800		1	20 A		RECEPT TELECON	M A224 4
5	RECEPT TELECO	M A128	20 A	1			1800 / 1800	1	20 A		RECEPT TELECON	M C224 6
7	RECEPT TELECO	M A128	20 A	1	1800 / 1800			1	20 A		RECEPT TELECON	л C224 8
9	RECEPT TELECO	И D139	20 A	1		1800 / 0		1	20 A		SPARE	10
11	RECEPT TELECO	И D139	20 A	1			1800 / 0	1	20 A		SPARE	12
13	RECEPT TELECO	M D139	20 A	1	1800 / 0		_	1	20 A		SPARE	14
15	RECEPT TELECO	M D139	20 A	1		1800 / 0		1	20 A		SPARE	16
17	RECEPT TELECO	M D139	20 A	1			1800 / 0	1	20 A		SPARE	18
19	RECEPT TELECO	M D139	20 A	1	1800 / 0		_	1	20 A		SPARE	20
21	SPARE		20 A	1		0/0		1	20 A		SPARE	22
23	SPARE		20 A	1			0/0	1	20 A		SPARE	24
25	SPARE			1	0/0			1	20 A		SPARE	26
27	SPARE		20 A	1		0/0		1	20 A		SPARE	28
29	SPARE		20 A	1			0/0	1	20 A		SPARE	30
31	SPARE			1	0/0			1	20 A		SPARE	32
33	SPARE		20 A	1		0/0		1	20 A		SPARE	34
35	SPARE		20 A	1			0/0	1	20 A		SPARE	36
37	SPACE			1	0/0			1			SPACE	38
39	SPACE			1		0/0		1			SPACE	40
41	SPACE			1			0/0	1			SPACE	42
			TOTA	LS:	10800 VA	7200 VA	7200 VA	Т				
	TOTAL (	CONNECTED LOA	<b>ND (VA)</b> : 25200 VA			TOTA	AL CONNECTED	LOAD	(AMPS)	: 70 A		
REMARKS						NOTES:						

LOCA	ATION: ELECTRICAL D140 SCCR (AMPS RMS	S SYMM):	65,000	SERVICE	: 480Y/277V 3Ф 4-	-Wire+Ground	AMP:	225 A	MAIN: MCB	NEMA: TYPE 1 MOUNTING: S	URFACE
СКТ	DESCRIPTION	NOTE AN	ים ופטו ב	Δ.	В	С	lno. r	AMD	NOTE	DESCRIPTION	C
1	LIGHTING CAFETERIA D106	20		<b>A</b> 2236 / 0	В	C	POLE	20 A	NOIE	SPARE	
3		20		2230 / 0	1284 / 0		1	20 A		SPARE	
5	LTG D (110A, 103-105, 135, 100, 126-128, 130, 131) LIGHTING D118-D123	20			1204 / 0	1355 / 0	1	20 A		SPARE	
7	LIGHTING DYNASIUM D125	20		1528 / 0		133370	1	20 A		SPARE	
9	LIGHTING GYMNASIUM D125	20		1326 / 0	1528 / 0		1	20 A		SPARE	1
11	LIGHTING STIMINASION D123	20			1320 / 0	714 / 0	1	20 A		SPARE	1
13	LTG POLES NEAR BLDG, BLDG MTD, FLAG, SIGN	20		1472 / 0		71470	1	20 A		SPARE	,
15	LIGHTING WEST PARKING	20		147270	1964 / 0		1	20 A		SPARE	
17	LIGHTING WEST PARKING  LIGHTING NE PARKING	20	_		1904 / 0	1302 / 0	1	20 A		SPARE	
19	SPARE	20		0 / 0		1302 / 0	1	20 A		SPARE	
21	SPARE	20		070	0 / 0		1	20 A		SPARE	2
23	SPARE	20			070	0/0	1	20 A		SPARE	4
25	SPARE	20		0 / 7616		070	ı	20 A		SPARE	
27	SPARE	20		0/7616	0 / 9000		3	125 A		TRANSFORMER 'T-1D' (75 kVA)	
	SPARE				0 / 8092	0 / 8236	3	125 A		PANELBOARD '1DL1'	_
29	SPARE	20	A I			0 / 8236					3
		-	OTALS :	12852 VA	12868 VA	11607 VA	_				
	TOTAL CONNECTED LOAD	(VA): 3732	27 VA		TOTAL	L CONNECTE	LOAD	(AMPS)	): 45 A		
REMA	ARKS:	(114)			NOTES:			(* 0)			

	1CH1		PA	NE	LBOAF	RD SCH	EDULE						
LOCA	ATION: ELECTRICAL C125 SCCR (AMPS RM	IS SYMN	<b>l):</b> 65	,000	SERVICE	: 480Y/277V 3Ф 4	-Wire+Ground	AMP:	225 A	MAI	N: MCB NEMA: Type 1	MOUNTING: SURF	ACE
СКТ	DESCRIPTION	NOTE		POLE		В	С	POLE		NOTE			СКТ
1	LIGHTING B102-B103, B106, B108-B110		20 A	1	1960 / 1960			1	20 A		LIGHTING C102-C104, C10	06, C108-C110	2
3	LIGHTING B112, B114-B116, B118		20 A	1		1700 / 1760		1	20 A		LIGHTING C112, C114-	C116, C118	4
5	LIGHTING B111, B120, TOILETS B		20 A	1			2005 / 1971	1	20 A		LIGHTING C111, C120,	TOILETS C	6
7	LIGHTING B122, B123, B126, B127, C122-C124,		20 A	1	1769 / 0			1	20 A		SPARE		8
9	SPARE		20 A	1		0/0		1	20 A		SPARE		10
11	SPARE		20 A	1			0/0	1	20 A		SPARE		12
13	SPARE		20 A	1	0/0			1	20 A		SPARE		14
15	SPARE		20 A	1		0/0		1	20 A		SPARE		16
17	SPARE		20 A	1			0/0	1	20 A		SPARE		18
19	SPARE		20 A	1	0/0			1	20 A		SPARE		20
21	SPARE		20 A	1		0/0		1	20 A		SPARE		22
23	SPARE		20 A	1			0/0	1	20 A		SPARE		24
25	SPARE		20 A	1	0 / 22420								26
27	SPARE		20 A	1		0 / 16760		3	175 A		TRANSFORMER 'T-1C' PANELBOARD '10		28
29	SPARE		20 A	1			0 / 17506				PANELBOARD IC	DPLI	30
			TO	ΓALS :	28109 VA	20220 VA	21481 VA						
	TOTAL CONNECTED LOAD	) (VA) : (	69810	√A		TOTA	L CONNECTED	LOAD (	(AMPS)	: 84 A			
REM	ARKS:					NOTES:			· /				
INTE	GRAL SPD.												

	1AH1		PA	NE	LBOAF	RD SCHI	<b>DULE</b>	•					
LOCA	TION: ELECTRICAL A135	SCCR (AMPS RMS	<b>SYMM):</b> 65	,000	SERVICE	: 480Y/277V 3Ф 4-	-Wire+Ground	AMP:	225 A	MAIN: MCB	NEMA: Type 1	MOUNTING: SU	JRFACE
скт	DESCRIPTION		NOTE AMP	DOLE	A	В	С	DOLE	AMP	NOTE	DESCRIPTION	ON .	C
1	LIGHTING ROOM A100, A14		20 A	1	1409 / 0	ь	C	POLE	20 A	NOTE	SPARE	JN	
3	LIGHTING ROOM A101-A110, A	· · · · · · · · · · · · · · · · · · ·	20 A	1	140970	1760 / 0		1	20 A		SPARE		
5	LIGHTING ROOM A117-A119, A		20 A	1		170070	1540 / 0	1	20 A		SPARE		
7	LIGHTING ROOM A127, A131-A		20 A	1	1530 / 0		1940 / 0	1	20 A		SPARE		
9	LIGHTING CORRIDORS UN	· · · · · · · · · · · · · · · · · · ·	20 A	1	1990 / 0	475 / 0		1	20 A		SPARE		
11	LIGHTING ROOM A141,		20 A	1		47070	1357 / 0	1	20 A		SPARE		
13	LIGHTING ROOM A151-A15		20 A	1	1461 / 0		1007 7 0	1	20 A		SPARE		-
15	SPARE	0, 0120 0120	20 A	1	110170	0 / 0		1	20 A		SPARE		
17	SPARE		20 A	1			0/0	1	20 A		SPARE		<u> </u>
19	SPARE		20 A	1	0/0			1	20 A		SPARE		
21	SPARE		20 A	1		0/0		1	20 A		SPARE		2
23	SPARE		20 A	1			0/0	1	20 A		SPARE		- 2
25	SPARE		20 A	1	0 / 31394								2
27	SPARE		20 A	1		0 / 34380		3	175 A		TRANSFORMER 'T-1A		2
29	SPARE		20 A	1			0 / 31434				PANELBOARD '1AI	LT, TALZ	3
				TALS :	35794 VA	36615 VA	34331 VA						
		ONNECTED LOAD	<b>(VA)</b> : 106740	VA			L CONNECTED	LOAD	(AMPS)	: 128 A			
REMA	-					NOTES:							
NIEG	SRAL SPD.												

	1BL1		P	<b>ANE</b>	<b>LBOAF</b>	RD SCHI	<b>EDULE</b>								
OCATION	: ELECTRICAL C125	SCCR (AMPS RM	IS SYMM):	22,000	SERVICE	: 208Y/120V 3Ф 4	-Wire+Ground	AMP:	225 A	MAI	N: MLO	NEMA:	Type 1	MOUNTING	: SURFAC
СКТ	DESCRIPTIO	IN.	NOTE A	MB BOLE	Α	В	С	IPOL I	E AMP	NOTE		DE	SCRIPT	ION	To
1	RECEPT LEARNING S			A 1	720 / 1080	ь	C	1	20 A	NOIL				B115, B116	<del></del>
3	RECEPT LEARNING S			) A 1	7207 1000	540 / 900		1	20 A					STUDIO B118	-
5	PROJ. LEARNING ST			) A 1		3407 900	1220 / 540	1	20 A					STUDIO B118	
7	RECEPT ROOM B1			) A 1	1080 / 1220		1220 / 540	1	20 A					TUDIO B118	
9	RECEPT LEARNING S	, -		) A 1	10007 1220	540 / 360		1	20 A					OMMONS B120	)
11	RECEPT LEARNING S			) A 1		0407 000	720 / 900	1	20 A					OMMONS B120	
13	PROJ. LEARNING ST			) A 1	1220 / 180		7207 000	1	20 A	G				MONS B120	
15	RECEPT LEARNING ST			) A 1	12207 100	540 / 180		1	20 A	G				MONS B120	
17	RECEPT LEARNING S			) A 1		3107 100	720 / 720	1	20 A		•			3120. B123	
19	PROJ. LEARNING ST			) A 1	860 / 900		. 20 / . 20	1	20 A		REC	-		URTYARD B1	21
21	RECEPT ROOM B1			) A 1		1080 / 1080		1	20 A					STUDIO B122	
23	RECEPT STEM STOR			) A 1			540 / 540	1	20 A					STUDIO B122	
25	RECEPT STEM STOR	RAGE B111	20	) A 1	360 / 860			1	20 A			PROJ. LEA	RNING S	TUDIO B122	
27	RECEPT LEARNING S	TUDIO B112	20	) A 1		720 / 540		1	20 A			RECEPT	WORK R	OOM B126	
29	RECEPT LEARNING S	TUDIO B112	20	) A 1			540 / 900	1	20 A			RECEPT	WORK R	OOM B126	
31	PROJ. LEARNING ST	UDIO B112	20	) A 1	860 / 360			1	20 A			COPIER	NORK R	OOM B126	
33	RECEPT LEARNING S	TUDIO B114	20	) A 1		540 / 540		1	20 A			RECEPT	ROOM E	3127, B130	
35	PROJ. LEARNING ST	UDIO B114	20	) A 1			1220 / 0	1	20 A				SPARE		
37	RECEPT LEARNING S	TUDIO B114	20	) A 1	720 / 0			1	20 A				SPARE		
39	VAV TRANSFORMER	R - AREA B	20	) A 1		1000 / 0		1	20 A				SPARE		
41	CUH-B VESTIBUL	E B130	20	) A 1			526 / 0	1	20 A				SPARE		
43	SPARE		20	) A 1	0/0			1	20 A				SPARE		
45	SPARE		20	) A 1		0/0		1	20 A				SPARE		
47	SPARE		20	) A 1			0/0	1	20 A				SPARE		
49	SPARE			) A 1	0/0			1	20 A				SPARE		
51	SPARE			) A   1		0/0		1	20 A				SPARE		
53	SPARE			) A 1			0/0	1	20 A				SPARE		
55	SPARE			) A   1	0/0	0.15		1	20 A				SPARE		
57	SPARE			) A 1		0/0	0.10	1	20 A				SPARE		
59	SPARE		20	) A   1			0/0	1	20 A				SPARE		
				TOTALS :	10420 VA	8560 VA	9086 VA	T							
	TOTAL (	CONNECTED LOAD	(VA): 280	66 VA		TOTA	L CONNECTED	LOAD	(AMPS)	: 78 A					
REMARKS 28-INCH W	: 'IDE PANELBOARD, INTEG	RAL SPD				NOTES: G - GFCI TYPE C		'CD							

KT	DESCRIPTION	NOTE	AMP	POLE	Α	В	С	POLI	E AMP	NOTE	DESCRIPTION	CKT
1	RECEPT NURSE A106		20 A	1	540 / 900			1	20 A		RECEPT WORK ROOM A151	2
3	RECEPT NURSE A106		20 A	1		900 / 1260		1	20 A		RECEPT MEDIA OFFICE/ CONFERENCE A152	4
5	RECEPT EXAM A107		20 A	1			1360 / 1620	1	20 A		RECEPT OFFICE C129	6
7	RECEPT ROOM A139, A140		20 A	1	360 / 1040			1	20 A		PROJ. MUSIC STUDIO A153	8
9	RECEPT ROOM A139, A143		20 A	1		720 / 720		1	20 A		RECEPT MUSIC STUDIO A153	10
11	RECEPT ART STUDIO A141		20 A	1			2000 / 900	1	20 A		RECEPT MUSIC STUDIO A153	12
13	RECEPT ART STUDIO A141		20 A	1	540 / 900			1	20 A		RECEPT ROOM A153, A154, A155	14
15	RECEPT ART STUDIO A141		20 A	1		2180 / 360		1	20 A		SOUND RACK STORAGE A155	16
17	RECEPT ART STUDIO A141		20 A	1			540 / 360	1	20 A		RECEPT CORRIDOR B128	18
19	PROJ. ART STUDIO A141		20 A	1	1220 / 1000			1	20 A		VAV TRANSFORMER - AREA A	20
21	RECEPT OUTDOOR COURTYARD A142		20 A	1		720 / 1000		1	20 A		VAV TRANSFORMER - AREA A	22
23							4798 / 1000	1	20 A		PROJ. DISCOVERY CENTER A148	24
25	KILN A144		50 A	3	4798 / 500			1	20 A		PROJECTOR PAN STAIR S205	26
27						4798 / 1260		1	20 A		RECEPT DISCOVERY CENTER A148	28
9	KILN CONTROL PANEL KILN A144		20 A	1			500 / 1080	1	20 A		RECEPT DISCOVERY CENTER A148	30
1	RECEPT KILN A144		20 A	1	540 / 1080			1	20 A		RECEPT DISCOVERY CENTER A148	32
33	RECEPT GREEN ROOM A145		20 A	1		900 / 900		1	20 A		RECEPT DISCOVERY CENTER A148	34
5	RECEPT AUDIO ROOM A146		20 A	1			900 / 1500	1	20 A		MOTORIZED SHADES A148	36
37					0 / 1000			1	20 A		MOTORIZED SHADES A148	38
39	SPARE		50 A	3		0 / 1000		1	20 A		MOTORIZED SHADES A148	40
41							0 / 720	1	20 A		RECEPT ROOM A100, A100A, A148	42
43	SPARE		20 A	1	0 / 540			1	20 A		RECEPT SECURE VESTIBULE A100	44
15	SPARE		20 A	1		0 / 1260		1	20 A		RECEPT OFFICE A100A	46
17	SPARE		20 A	1			0 / 700	1	20 A		CUH-D VESTIBULE A100	48
19	SPARE		20 A	1	0 / 700			1	20 A		CUH-C VESTIBULE A140	50
51	SPARE		20 A	1		0/0		1	20 A		SPARE	52
53	SPARE		20 A	1			0/0	1	20 A		SPARE	54
			тот	_	15658 VA	17978 VA	17978 VA					
	TOTAL CONNECTED LOAKS:	D (VA) : 5	51614 V	Ά		TOTA NOTES:	L CONNECTED	LOAD	(AMPS	): 143 <i>i</i>	1	

PANELBOARD SCHEDULE

LOCATION: ELECTRICAL A135 SCCR (AMPS RMS SYMM): 22,000 SERVICE: 208Y/120V 3Φ 4-Wire+Ground AMP: 400 A MAIN: MCB NEMA: Type 1 MOUNTING: SURFACE

LOCATION:	ELECTRICAL D122B	SCCR (AMPS R	WS SYMIN		ر 000 معد	SERVICE :	480Y/277V 3Φ 4	-wire+Ground   7	AMP:	225 A	MAIN :	MCB NEMA: Type 1 MOUNTIN	G: SURFACE
СКТ	DESCRIPTION	N	NOTE	AMP	POLE	Α	В	С	POLE	AMP	NOTE	DESCRIPTION	С
1 3 5	AIR HANDLING UNIT SUPPLY FAN - 10 STORAGE D11	OHP (		25 A	3	3878 / 9418	3878 / 9418	3878 / 9418	3	70 A		CHILLED WATER PUMP (CHWP-A 25HP MECHANICAL D123	vA)
7 9 11	AIR HANDLING UNIT ( SUPPLY FAN - 7. MECHANICAL D1	5HP		20 A	3	3047 / 9418	3047 / 9418	3047 / 9418	3	70 A		CHILLED WATER PUMP (CHWP-/ 25HP MECHANICAL D123	A2)
13 15 17	AIR HANDLING UNIT ( SUPPLY FAN - 7. MECHANICAL D1	5HP		20 A	3	3047 / 0	3047 / 0	3047 / 0	3	70 A		SPARE	-
19 21 23	SPARE			20 A	3	0 / 0	0/0	0 / 0	1 1 1	20 A 20 A 20 A		SPARE SPARE SPARE	
25	SPARE			20 A	1	0/0		0 / 0	1	20 A		SPARE	
27	SPARE			20 A	1		0/0		1	20 A		SPARE	
29	SPARE			20 A	1			0/0	1	20 A		SPARE	
31	SPARE			20 A	1	0/0			1	20 A		SPARE	
33	SPARE			20 A	1		0/0		1	20 A		SPARE	
35	SPARE			20 A	1			0/0	1	20 A		SPARE	
37	SPACE				1	0/0			1			SPACE	
39	SPACE				1		0/0		1			SPACE	
41	SPACE				1			0/0	1			SPACE	
				ТОТ	ALS :	28808 VA	28808 VA	28808 VA	T T				
	TOTAL C	ONNECTED LOA	D (VA) : 8	36424 V	<u>'</u> A		TOTA	L CONNECTED	LOAD (	AMPS)	: 104 A		
REMARKS:		<u> </u>	(	· · · · · ·	•		NOTES:						
NTEGRAL S	PD.												

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	1DL1			PA	NEI	<b>_BOAF</b>	RD SCH	<b>EDULE</b>						
OCAT	ION : ELECTRICAL D140	SCCR (AMPS RM	IS SYMM	<b>):</b> 22,	000	SERVICE	: 208Y/120V 3Ф <sup>2</sup>	I-Wire+Ground	MP:	225 A <b>MAI</b>	N: MCB	NEMA: Type 1	MOUNTING: SU	RFACE
СКТ	DESCRIPTION	<u> </u>	NOTE	AMP	POLE	A	В	С	POLE	AMP NOTE		DESCRIPT	ION	CH
1	RECEPT MENS D	)104		20 A	1	680 / 1080			1	20 A		RECEPT ROOM [	D106, D130	2
3	RECEPT WOMENS	D103		20 A	1		680 / 720		1	20 A		RECEPT CAFETI	ERIA D106	
5	RECEPT CORRIDOR	R D105		20 A	1			180 / 1440	1	20 A		RECEPT CAFETI	ERIA D106	
7	RECEPT CORRIDOR	R D105		20 A	1	180 / 900			1	20 A		RECEPT CAFETI	ERIA D106	
9	RECEPT ROOM D10	0, D135		20 A	1		1080 / 200		1	20 A		CUH-B VESTIBL	JLE D101	1
11	RECEPT ROOM D110A, D10	05, D110, D145		20 A	1			1260 / 1052	1	20 A		PUH-B 1/20HP D1	10A, D145	1
13	PUH-B 1/20HP ELECTR	ICAL D140		20 A	1	864 / 1748								1
15							444 / 1748		2	20 A	DS	S-B/ACCU-B DRY S	TORAGE D111	1
17	EF-RMS E. 3/4HP RO	OFTOP		20 A	3			444 / 360	1	20 A	RE	CEPT BUILDING S	TORAGE D122	1
19						444 / 0			1	20 A		SPARE		
21	SPARE			20 A	1		0/0		1	20 A		SPARE		2
23	SPARE			20 A	1			0/0	1	20 A		SPARE		2
25	SPARE			20 A	1	0/0			1	20 A		SPARE		2
27	SPARE			20 A	1		0 / 1800		1	20 A		RECEPT TELEC	OM D139	2
29	CAFETERIA D1	06		20 A	1			1000 / 1800	1	20 A		RECEPT TELEC	OM D139	3
31	RECEPT CAFETERIA	A D106		20 A	1	1000 / 720			1	20 A		RECEPT TELEC	OM D139	3
33	RECEPT VESTIBULE	E D130		20 A	1		700 / 720		1	20 A		RECEPT TELEC	OM D139	3
35	RECEPT VESTIBULE	E D110		20 A	1			700 / 0	1	20 A		SPARE		3
37	SPARE			20 A	1	0/0			1	20 A		SPARE		3
39	SPARE			20 A	1		0 / 0		1	20 A		SPARE		4
41	SPARE			20 A	1			0/0	1	20 A		SPARE		
43	SPARE			20 A	1	0/0			1	20 A		SPARE		
45	SPARE			20 A	1		0/0		1	20 A		SPARE		4
47	SPARE			20 A	1			0/0	1	20 A		SPARE		4
49	SPARE			20 A	1	0/0			1	20 A		SPARE		5
51	SPARE			20 A	1		0/0		1	20 A		SPARE		5
53	SPARE			20 A	1			0/0	1	20 A		SPARE		5
				ТОТ	ALS:	7616 VA	8092 VA	8236 VA						
	TOTAL C	ONNECTED LOAD	O (VA): 2	3944 V	'A		TOTA	L CONNECTED	LOAD	(AMPS): 66 A				
REMAR							NOTES:							

	1CL1		PAI	NEI	LBOAR	RD SCHE	DULE	ı				
ATION :	ELECTRICAL C125	SCCR (AMPS RM	<b>IS SYMM):</b> 22,0	000	SERVICE :	208Y/120V 3Ф 4-V	Wire+Ground	AMP :	225 A	MAIN:	MLO <b>NEMA:</b> Type 1 <b>MOUNTING:</b> SUI	RFACE
	DESCRIPTION	N	NOTE AMP I	POLE	Α	В	С	POLE	E AMP	NOTE	DESCRIPTION	СКТ
1	RECEPT LEARNINGST	JDIO C102	20 A	1	540 / 1080	·		1	20 A		RECEPT ROOM C115, C116	2
	RECEPT LEARNING ST	UDIO C102	20 A	1		900 / 540		1	20 A		RECEPT LEARNING STUDIO C118	4
	PROJ. LEARNING STU	DIO C102	20 A	1			1220 / 720	1	20 A		RECEPT LEARNING STUDIO C118	6
	RECEPT ROOM C10	3, C104	20 A	1	1080 / 1220			1	20 A		PROJ. LEARNING STUDIO C118	8
	RECEPT LEARNING ST	UDIO C106	20 A	1		720 / 360		1	20 A		RECEPT ACTIVITY COMMONS C120	10
	RECEPT LEARNING ST	UDIO C106	20 A	1			540 / 720	1	20 A		RECEPT ACTIVITY COMMONS C120	12
	PROJ. LEARNING STU	DIO C106	20 A	1	1220 / 180			1	20 A	G	EWC ACTIVITY COMMONS C120	14
	RECEPT LEARNING ST	UDIO C108	20 A	1		720 / 180		1	20 A	G	EWC ACTIVITY COMMONS C120	16
	RECEPT LEARNING ST	UDIO C108	20 A	1			540 / 900	1	20 A		RECEPT ACTIVITY COMMONS C120	18
	PROJ. LEARNING STU	DIO C108	20 A	1	860 / 900			1	20 A		RECEPT OUTDOOR COURTYARD C121	20
	RECEPT ROOM C10	-,	20 A	1		1080 / 540 / 2		1	20 A		RECEPT LEARNING STUDIO C122	22
	RECEPT STEM STORA		20 A	1			360 / 540	1	20 A		RECEPT LEARNING STUDIO C122	24
	RECEPT STEM STORA		20 A	1	540 / 860			1	20 A		PROJ. LEARNING STUDIO C122	26
	RECEPT LEARNING ST		20 A	1		540 / 360		1	20 A		RECEPT ROOM C123, C124	28
	RECEPT LEARNING ST		20 A	1			720 / 1080	1	20 A		RECEPT TECH C126	30
	PROJ. LEARNING STU		20 A	1	860 / 720	700 / 540		1	20 A		RECEPT TECH C126	32
	RECEPT LEARNING ST		20 A	1		720 / 540	540 / 540	1	20 A		RECEPT OFFICE C127	34
	PROJ. LEARNING STU		20 A	1	1220 / 720		540 / 540	1	20 A 20 A		RECEPT OFFICE C127  RECEPT OFFICE C127	36 38
	SPARE	DIO C114	20 A	1	1220 / 720	0 / 1000		1	20 A		VAV TRANSFORMER - AREA C	40
	SPARE		20 A	1		071000	0/0	1	20 A		SPARE	40
	SPARE		20 A	1	0/0		070	1	20 A		SPARE	44
	SPARE		20 A	1	070	0/0		1	20 A		SPARE	46
	SPARE		20 A	1		0 / 0	0/0	1	20 A		SPARE	48
	SPARE		20 A	1	0/0			1	20 A		SPARE	50
	SPARE		20 A	1		0/0		1	20 A		SPARE	52
	SPARE		20 A	1			0/0	1	20 A		SPARE	54
	SPARE		20 A	1	0/0			1	20 A		SPARE	56
	SPARE		20 A	1		0/0		1	20 A		SPARE	58
	SPARE		20 A	1	_		0/0	1	20 A		SPARE	60
			ТОТ	ALS:	12000 VA	8200 VA	8420 VA					
	TOTAL C	ONNECTED LOAD	(VA): 28620 V	A		TOTAL	CONNECTED	LOAD	(AMPS)	: 79 A		

	1AL1		PA	NE	LBOAR	D SCH	<b>EDULE</b>					
C	ATION: ELECTRICAL A135 SCCR (AMPS RMS	SYMN	1): 22,	000	SERVICE :	208Y/120V 3Ф 4-	Wire+Ground A	MP:	400 A	MAIN	: MCB NEMA: Type 1 MOUNTING: SUR	FACE
ίT	DESCRIPTION	NOTE	AMP	POLE	Α	В	С	POL	E AMP	NOTE	DESCRIPTION	СК
	RECEPT STAFF LOUNGE A123		20 A	1	1080 / 540			1	20 A		RECEPT WORK ROOM A126	2
	VENDING STAFF LOUNGE A123	G	20 A	1		1000 / 540		1	20 A		RECEPT WORK ROOM A126	4
	VENDING STAFF LOUNGE A123	G	20 A	1			1000 / 1000	1	20 A		COPIER WORK ROOM A126	6
	RECEPT STAFF LOUNGE A123		20 A	1	360 / 1440			1	20 A		RECEPT SHARED OFFICE A127	8
)	GARBAGE DISP STAFF LOUNGE A123	G	25 A	1		1656 / 1080		1	20 A		RECEPT TELECOM A128	10
1	RECEPT STAFF LOUNGE A123		20 A	1			180 / 720	1	20 A		RECEPT TELECOM A128	12
3	RECEPT STAFF LOUNGE A123		20 A	1	180 / 360			1	20 A		RECEPT ROOM A122, A121	14
5	REFRIG. 1 STAFF LOUNGE A123	G	20 A	1		180 / 1620		1	20 A		RECEPT LARGE CONFERENCE A119	16
7	REFRIG. 2 STAFF LOUNGE A123	G	20 A	1			180 / 360	1	20 A		FLOOR BOX LARGE CONFERENCE A119	18
9	REC. SELF-CONTAINED LEARNING STUDIO A131		20 A	1	540 / 1080			1	20 A		RECEPT CORRIDOR NW	20
1	PROJ. SELF-CONTAINED LEARNING STUDIO A131		20 A	1		860 / 1800		1	20 A		RECEPT OFFICE A118	22
3	REC. SELF-CONTAINED LEARNING STUDIO A131		20 A	1			720 / 1440	1	20 A		RECEPT CONF. A117	24
5	RECEPT ROOM A131, A135		20 A	1	540 / 1800			1	20 A		RECEPT OFFICE A120	26
7	EF-Q2 STORAGE A132		20 A	1		526 / 1800		1	20 A		RECEPT OFFICE A113	28
9	DDVCD OTODAOS A400		00.4	0			2496 / 1440	1	20 A		RECEPT CONF. A114	30
1	DRYER STORAGE A132		30 A	2	2496 / 1800			1	20 A		RECEPT OFFICE A110	32
3	WASHER STORAGE A132		20 A	1		1920 / 1440		1	20 A		RECEPT ROOM A105, A109	34
5	PROJ. LEARNING STUDIO A134		20 A	1			1220 / 720	1	20 A		RECEPT TREASURER A104	36
7	RECEPT LEARNING STUDIO A134		20 A	1	1180 / 1440			1	20 A		RECEPT PARENT ROOM A103	38
9	RECEPT LEARNING STUDIO A134		20 A	1		720 / 900		1	20 A		RECEPT RECEPTION A102	40
1	RECEPT THINK TANK A137		20 A	1			900 / 900	1	20 A		RECEPT WAITING A101	42
3	RECEPT ROOM A138, A130, A133		20 A	1	900 / 0			1	20 A		SPARE	44
5	RECEPT STAFF LOUNGE A123		20 A	1		360 / 0		1	20 A		SPARE	46
7	REC. SELF-CONTAINED LEARNING STUDIO A131		20 A	1			180 / 0	1	20 A		SPARE	48
9	SPARE		20 A	1	0/0			1	20 A		SPARE	50
1	SPARE		20 A	1		0/0		1	20 A		SPARE	52
3	SPARE		20 A	1			0/0	1	20 A		SPARE	54
			TOT	ALS :	15736 VA	16402 VA	13456 VA	1				
	TOTAL CONNECTED LOAD	(VA) ·			13730 VA		CONNECTED	ΙΟΔΓ	(AMPS)	: 127 A		

1 3 5 7 9 11 CAB 13 I 15 NOF 17 PROF 19 W 21 SOL 23 25 27 29 CIRCU 31 CIRCU 33 35 37	DESCRIPTION  SPARE  SPARE  SPARE  SPARE  RECEPTS - MECHANICAL D122B  RECEPTS - MECHANICAL D122B  BINET UNIT HEATER - ELECTRICAL D122B  RECEPTS - BUILDING STORAGE D122  PRTH/WEST RECEPTS - MECHANICAL D123  WATER SOFTENER - MECHANICAL D123  WATER SECEPTS - MECHANICAL D123  WATER HEATER - MECHANICAL D123  TMV-A - MECHANICAL D123	NOTE AMP P 20 A		A 0 / 0 360 / 900 540 / 860 360 / 360	B 0 / 0 360 / 180 360 / 0	C 0 / 0 526 / 720 864 / 696	POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	225 A  20 A	OTE F SOUND R PROJECT	DESCRIPTION  SPARE  SPARE  SPARE  SPARE  RECEPTS - PE OFFICE D126  RACK RECEPT - PE STORAGE D12'  ECEPTS - PE STORAGE D127  OR/PROJ. SCREEN - GYMNASIUM-AUST FAN (EF-K1) - TOILET D128	CK   2   4   6   8   7   10   12
1 3 5 7 9 11 CAB 13 I 15 NOF 17 PROF 19 W 21 SOL 23 27 29 CIRCL 33 35 35 37	SPARE SPARE SPARE RECEPTS - MECHANICAL D122B RECEPTS - MECHANICAL D122B BINET UNIT HEATER - ELECTRICAL D122B RECEPTS - BUILDING STORAGE D122 RTH/WEST RECEPTS - MECHANICAL D123 PELLER UNIT HEATER - MECHANICAL D123 WATER SOFTENER - MECHANICAL D123 UTH/WEST RECEPTS - MECHANICAL D123 WATER HEATER - MECHANICAL D123 WATER HEATER - MECHANICAL D123	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	1 1 1 1 1 1 1 1 1 1 1	0 / 0 360 / 900 540 / 860	0 / 0 360 / 180 360 / 0	0 / 0	1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	SOUND R PROJECT	SPARE SPARE SPARE SPARE RECEPTS - PE OFFICE D126 RACK RECEPT - PE STORAGE D127 ECEPTS - PE STORAGE D127 OR/PROJ. SCREEN - GYMNASIUM-	2 4 6 8 7 10 12 1 14
3 5 7 9 11 CAB 13 I 15 NOF 17 PROF 19 W 21 SOL 23 25 27 29 CIRCL 33 35 35 37	SPARE SPARE RECEPTS - MECHANICAL D122B RECEPTS - MECHANICAL D122B BINET UNIT HEATER - ELECTRICAL D122B RECEPTS - BUILDING STORAGE D122 RTH/WEST RECEPTS - MECHANICAL D123 PELLER UNIT HEATER - MECHANICAL D123 WATER SOFTENER - MECHANICAL D123 UTH/WEST RECEPTS - MECHANICAL D123 WATER HEATER - MECHANICAL D123 WATER HEATER - MECHANICAL D123	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	1 1 1 1 1 1 1 1 1	360 / 900 540 / 860	360 / 180 360 / 0	526 / 720	1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	SOUND R PROJECT	SPARE SPARE RECEPTS - PE OFFICE D126 RACK RECEPT - PE STORAGE D12' ECEPTS - PE STORAGE D127 OR/PROJ. SCREEN - GYMNASIUM-	4 6 8 7 10 12 1 14
5 7 9 111 CAB 13 I 15 NOF 17 PROF 19 W 21 SOL 23 25 27 29 CIRCL 33 35 35 37	SPARE RECEPTS - MECHANICAL D122B RECEPTS - MECHANICAL D122B BINET UNIT HEATER - ELECTRICAL D122B RECEPTS - BUILDING STORAGE D122 PRTH/WEST RECEPTS - MECHANICAL D123 PELLER UNIT HEATER - MECHANICAL D123 WATER SOFTENER - MECHANICAL D123 UTH/WEST RECEPTS - MECHANICAL D123 WATER HEATER - MECHANICAL D123 WATER HEATER - MECHANICAL D123	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	1 1 1 1 1 1 1 1 1	540 / 860	360 / 180 360 / 0	526 / 720	1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A	SOUND R PROJECT	SPARE RECEPTS - PE OFFICE D126 RACK RECEPT - PE STORAGE D12' ECEPTS - PE STORAGE D127 OR/PROJ. SCREEN - GYMNASIUM-	6 8 7 10 12 1 14
7 9 111 CAB 13 I I 15 NOF 17 PROF 19 W 21 SOL 23 1	RECEPTS - MECHANICAL D122B RECEPTS - MECHANICAL D122B BINET UNIT HEATER - ELECTRICAL D122B RECEPTS - BUILDING STORAGE D122 PRTH/WEST RECEPTS - MECHANICAL D123 PELLER UNIT HEATER - MECHANICAL D123 WATER SOFTENER - MECHANICAL D123 UTH/WEST RECEPTS - MECHANICAL D123 WATER HEATER - MECHANICAL D123 WATER HEATER - MECHANICAL D123	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	1 1 1 1 1 1 1 1	540 / 860	360 / 0	526 / 720	1 1 1 1 1	20 A 20 A 20 A 20 A 20 A	SOUND R PROJECT	RECEPTS - PE OFFICE D126 RACK RECEPT - PE STORAGE D12 ECEPTS - PE STORAGE D127 OR/PROJ. SCREEN - GYMNASIUM-	8 7 10 12 1 14
9	RECEPTS - MECHANICAL D122B BINET UNIT HEATER - ELECTRICAL D122B RECEPTS - BUILDING STORAGE D122 BRTH/WEST RECEPTS - MECHANICAL D123 BPELLER UNIT HEATER - MECHANICAL D123 WATER SOFTENER - MECHANICAL D123 UTH/WEST RECEPTS - MECHANICAL D123 WATER HEATER - MECHANICAL D123 WATER HEATER - MECHANICAL D123	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	1 1 1 1 1 1	540 / 860	360 / 0		1 1 1 1	20 A 20 A 20 A 20 A	SOUND R PROJECT	RACK RECEPT - PE STORAGE D12 ECEPTS - PE STORAGE D127 OR/PROJ. SCREEN - GYMNASIUM-	7 10 12 1 14
11 CAB 13 I 15 NOF 17 PROF 19 W 21 SOU 23 25 27 29 CIRCU 33 CIRCU 33 35 35	BINET UNIT HEATER - ELECTRICAL D122B RECEPTS - BUILDING STORAGE D122 PRTH/WEST RECEPTS - MECHANICAL D123 PELLER UNIT HEATER - MECHANICAL D123 WATER SOFTENER - MECHANICAL D123 UTH/WEST RECEPTS - MECHANICAL D123 WATER HEATER - MECHANICAL D123	20 A 20 A 20 A 20 A 20 A 20 A 20 A	1 1 1 1 1		360 / 0		1 1 1	20 A 20 A 20 A	R PROJECT	ECEPTS - PE STORAGE D127 OR/PROJ. SCREEN - GYMNASIUM-	12 1 14
13 I 15 NOF 17 PROF 19 W 21 SOL 23 25 27 29 CIRCL 31 CIRCL 33 35	RECEPTS - BUILDING STORAGE D122 PRTH/WEST RECEPTS - MECHANICAL D123 PELLER UNIT HEATER - MECHANICAL D123 WATER SOFTENER - MECHANICAL D123 UTH/WEST RECEPTS - MECHANICAL D123 WATER HEATER - MECHANICAL D123 WATER HEATER - MECHANICAL D123	20 A 20 A 20 A 20 A 20 A 20 A	1 1 1 1				1 1 1	20 A 20 A	PROJECT	OR/PROJ. SCREEN - GYMNASIUM-	1 14
15 NOF 17 PROF 19 W 21 SOU 23 25 27 29 CIRCU 31 CIRCU 33 35 37	PRTH/WEST RECEPTS - MECHANICAL D123 PELLER UNIT HEATER - MECHANICAL D123 WATER SOFTENER - MECHANICAL D123 UTH/WEST RECEPTS - MECHANICAL D123 WATER HEATER - MECHANICAL D123 WATER HEATER - MECHANICAL D123	20 A 20 A 20 A 20 A 20 A	1 1 1 1			864 / 696	1	20 A			
17 PROF 19 W 21 SOL 23 ' 25 ' 27 CIRCU 31 CIRCU 33 35 35	PELLER UNIT HEATER - MECHANICAL D123 WATER SOFTENER - MECHANICAL D123 UTH/WEST RECEPTS - MECHANICAL D123 WATER HEATER - MECHANICAL D123 WATER HEATER - MECHANICAL D123	20 A 20 A 20 A 20 A	1 1 1	360 / 360		864 / 696	1		EXH	VIIST FAN (FF-K1) - TOII FT D128	16
19 W 21 SOU 23 25 27 29 CIRCU 33 CIRCU 33 35 37	WATER SOFTENER - MECHANICAL D123 UTH/WEST RECEPTS - MECHANICAL D123 WATER HEATER - MECHANICAL D123 WATER HEATER - MECHANICAL D123	20 A 20 A 20 A	1	360 / 360	540 / 900	864 / 696	-	20 A		1001 1 AN (EI -KI) - TOILET D120	10
21 SOL 23 25 27 29 CIRCU 31 CIRCU 33 35	WATER HEATER - MECHANICAL D123 WATER HEATER - MECHANICAL D123 WATER HEATER - MECHANICAL D123	20 A 20 A	1	360 / 360	540 / 900				FAN CO	DIL UNIT (FC-B) - PE STORAGE D127	18
13	WATER HEATER - MECHANICAL D123 WATER HEATER - MECHANICAL D123	20 A			540 / 900		1	20 A	INTEGRAL I	LIGHTING (AHU-6), AHU-5N - STORA	AG 20
3	WATER HEATER - MECHANICAL D123		1				1	20 A		RECEPTS - STORAGE D118	22
77		20 A				1800 / 360	1	20 A	EAST CEN	NTER RECEPT - GYMNASIUM-1 D12	
9 CIRCU 1 CIRCU 3 5	TMV-A - MECHANICAL D123		1	1800 / 180			1	20 A	S.E. F	REECPTS - GYMNASIUM-1 D125-1	26
9 CIRCU 11 CIRCU 13 15 17		20 A	1		1800 / 526		1	20 A	EXHAL	UST FAN (EF-Q2) - LAUNDRY D119	28
1 CIRCU 3 5 7	CULATION PUMP (CP-A) - MECHANICAL D123		1			2400 / 696	1	20 A		COIL UNIT (FC-B) - STORAGE D118	30
3 5 7	CULATION PUMP (CP-B) - MECHANICAL D123		1	696 / 540		2.007.000	1	20 A		S - CORRIDOR D120, LAUNDRY D11	
5 7	RECEPTS - RECEIVING D121	20 A	1	000 / 010	360 / 1656		1	20 A		TH GOAL - GYMNASIUM-1 D125-1	34
7	RECEPTS - RECEIVING D121	20 A	1		0007 1000	360 / 1000	1	20 A		COREBOARD - GYMNASIUM-1 D125	
	FAN COIL UNIT - RECEIVING D121	20 A	1	696 / 1656		0007 1000	1	20 A		OAL MOTOR - GYMNASIUM-1 D125-1	
	AN COIL UNIT - BUILDING STORAGE D122	20 A	1	0007 1000	696 / 720		1	20 A		ECEPTS - MECHANICAL D110C	40
	ORTHWEST RECEPTS - RECEIVING D121	20 A	1		0007720	360 / 1052	1	20 A		R UNIT HEATER - MECHANICAL D1	
	IORTH RECEPTS - GYMNASIUM-1 D125-1	20 A	1	1620 / 1000		000 / 1002	1	20 A		COREBOARD - GYMNASIUM-1 D125-	-
	GOUTH RECEPTS - GYMNASIUM-1 D125-1	20 A	1	1020 / 1000	1800 / 1656		1	20 A		OAL MOTOR - GYMNASIUM-1 D125-1	
	RTHEAST RECEPT - GYMNASIUM-1 D125-1	20 A	1		1000 / 1000	360 / 1656	1	20 A		GOAL MOTOR - GYMNASIUM-1 D125	
.9	WASHER - LAUNDRY D119	20 A	1	1920 / 180		33371300	1	20 A		LIGHTS (AHU-5S) MECHANICAL D1	
51				.0207 100	2496 / 0		1	20 A	20.012	SPARE	52
3	DRYER - LAUNDRY D119	30 A	2		, ,	2496 / 0	1	20 A		SPARE	54
5				900 / 0			1	20 A		SPARE	56
7	MOTORIZED BLEACHERS	20 A	3		900 / 0		1	20 A		SPARE	58
9	MOTOR GYMNASIUM-1 D125-1					900 / 0	1	20 A		SPARE	60

INTEGRAL SPD. 28-INCH WIDE ENCLOSURE.

10	DPL1		PA	NE	LBOAR	RD SCH	<b>EDULE</b>	•					
OCATION : E	LECTRICAL C125	SCCR (AMPS RMS SYMM)	<b>):</b> 65,	000	SERVICE :	208Y/120V 3Ф 4	-Wire+Ground	AMP:	400 A	MAIN: MCB	NEMA: Type 1	MOUNTING: SURF	ACE
СКТ	DESCRIPTION	NOTE	AMP	POLE	A	В	С	POLE	AMP N	ОТЕ	DESCRIPTI	ON	СКТ
1					12000 / 10420								2
3	PANEL '1CL1'		225 A	3		8200 / 8560		3	225 A		PANEL '1BI	_1'	4
5							8420 / 9086						6
7					0/0								8
9	SPARE		225 A	3		0/0		3	100 A		SPARE		10
11							0/0						12
13					0/0			1			SPACE		14
15	SPARE		100 A	3		0/0		1			SPACE		16
17							0/0	1			SPACE		18
19	SPACE			1	0/0		_	1			SPACE		20
21	SPACE			1		0/0		1			SPACE		22
23	SPACE			1			0/0	1			SPACE		24
25	SPACE			1	0/0								26
27	SPACE			1		0/0		3	60 A		SPD		28
29	SPACE			1			0/0						30
			TOT	ALS:	22420 VA	16760 VA	17506 VA						
	TOTAL CO	NNECTED LOAD (VA): 5	6686 V	/A		TOTA	L CONNECTED	LOAD	(AMPS):	157 A			
EMARKS:	). CURRENT TECHNOLO	OCV TC2 SEDIES				NOTES:							,
LIVIOTE 3.P.L	J. CONNENT TECHNOLO	OT 100 SENIES.											



EASTERN SCHOOLS
ENOVATIONS TO
LEMENTARY
400L HAMILTON SOUTHEA
ADDITIONS & REN
FISHERS ELE
SCHO

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

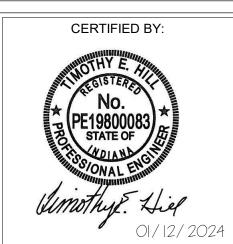
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

**REVISIONS:** Addendum#2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY 01/15/24 GSR DEW

DRAWING TITLE:

SCHEDULES -PANELBOARDS -FIRST FLOOR



DRAWING NUMBER E613

	2CH1		P	ANI	ELBOAF	RD SCH	<b>EDULE</b>	l I					
OCATIO	ON: ELECTRICAL C222	SCCR (AMPS RMS	SYMM):	65,000	SERVICE	: 480Y/277V 3Ф	4-Wire+Ground	AMP:	225 A	MAIN:	MCB <b>NEMA</b> : Type 1	MOUNTING: SUR	RFACE
СКТ	DESCRIPTION		NOTE A	MP POL	E A	В	С	POLI	E AMP	NOTE	DESCRIPT	ION	CI
1	LIGHTING B202-B204, B2			0 A 1	1960 / 1960			1	20 A		LIGHTING C202-C204,	C206, C208-C210	
3	LIGHTING B212, B214-B2	16, B218	20	0 A 1		1760 / 1760		1	20 A		LIGHTING C212, C2	4-C216, C218	
5	LIGHTING B211, B220, TC	ILETS 2B	20	0 A 1			1913 / 2996	1	20 A		LIGHTING C211, C22	0, TOILETS 2C	
7	LIGHTING B221, B224,	B226,	20	0 A 1	1826 / 0			1	20 A		SPARE		
9	SPARE		20	0 A 1		0/0		1	20 A		SPARE		1
11	SPARE		20	0 A 1			0/0	1	20 A		SPARE		1
13	SPARE		20	0 A 1	0/0			1	20 A		SPARE		1
15	SPARE		20	0 A 1		0/0		1	20 A		SPARE		1
17	SPARE		20	0 A 1			0/0	1	20 A		SPARE		1
19	SPARE		20	0 A 1	0/0			1	20 A		SPARE		2
21	SPARE		20	0 A 1		0/0		1	20 A		SPARE		2
23	SPARE		20	0 A 1			0/0	1	20 A		SPARE		2
25	SPARE		20	0 A 1	0 / 22464								2
27	SPARE		20	0 A 1		0 / 21452		3	175 A		TRANSFORMER 'T-2 PANELBOARD		2
29	SPARE		20	0 A 1			0 / 20396				TANLEBOARD	ZODI LI	3
				TOTALS	3: 28210 VA	24972 VA	25305 VA						
		NNECTED LOAD (	<b>VA)</b> : 784	87 VA			AL CONNECTED	LOAD	(AMPS)	: 94 A			
REMARK						NOTES:							
NTEGRA	AL SPD.												

LOCAT	ION : ELECTRICAL A226 SCCR (AMP.	S RMS SYMM):	65,000	SERVICE	: 480Y/277V 3Ф 4	-Wire+Ground	ΔМР·	225 A II	MAIN: MCB NEMA: Type 1	MOUNTING: SURFA	ΔCF
LOOAI	TON: ELECTRICAL AZZO	J KING OT MINI).	00,000	SERVICE	. 4001/2/17 34 4	-Wile Glound	AWII .	223 A	INCE NEED INCE	WOONTHO. SORTA	TOL
СКТ	DESCRIPTION	NOTE A	/IP POLE	Α	В	С	POLE	AMP NO	DESCRIPT	ION	CI
1	LIGHTING A202-A204, A206, A208-A210	20	A 1	1960 / 0			1	20 A	SPARE	Ē	2
3	LIGHTING A211, A220, TOILETS 2A	20	A 1		2136 / 0		1	20 A	SPARE	=	
5	LIGHTING A212, A214-A216, A218	20	A 1			1760 / 0	1	20 A	SPARE	<u> </u>	(
7	LIGHTING MECHANICAL PENTHOUSE D1	44 20	A 1	1178 / 0			1	20 A	SPARE	Ē	8
9	LIGHTING DISCOVERY CENTER A148	20	A 1		1178 / 0		1	20 A	SPARE	Ē	1
11	LIGHTING STAIR S205	20	A 1			836 / 0	1	20 A	SPARE	Ē	1:
13	LIGHTING A230, STAFF TOILETS	20	A 1	269 / 0			1	20 A	SPARE	=	1.
15	SPARE	20	A 1		0/0		1	20 A	SPARE	<u> </u>	1
17	SPARE	20	A 1			0/0	1	20 A	SPARE	<u>:</u>	1
19	SPARE	20	A 1	0/0			1	20 A	SPARE	<u> </u>	2
21	SPARE	20	A 1		0/0		1	20 A	SPARE	<u> </u>	2
23	SPARE	20	A 1			0/0	1	20 A	SPARE	<u>:</u>	2
25	SPARE	20	A 1	0/0					TRANSFORMER	F 2A! (7EL) (A)	2
27	SPARE	20	A 1		0/0		3	125 A	TRANSFORMER 'T PANELBOARI		2
29	SPARE	20	A 1			0/0					3
					T	1 0-001:					
			OTALS:	3407 VA	3314 VA	2596 VA		· · · · · · · · · · · · · · · · · · ·			
	TOTAL CONNECTED I	.OAD (VA): 931	7 VA			L CONNECTED	) LOAD	( <b>AMPS</b> ) : 1	11 A		
REMAR					NOTES:						
INTEG	RAL SPD.										

480V

208√

2BL1		PA	NEI	<b>LBOAF</b>	RD SCHI	<b>EDULE</b>										
LOCATION	: ELECTRICAL C222	SCCR (AMPS RM	<b>S SYMM):</b> 22,	000	SERVICE	: 208Y/120V 3Ф 4	-Wire+Ground	AMP:	225 A	MAII	N: MLO	NEMA:	Type 1	MOU	INTING: SU	JRFACE
СКТ	DESCRIPTION	J.	NOTE AMP	POLE	A	В	С	IPOL E	AMP	NOTE		ח	ESCRIPT	TION		СКТ
1	RECEPT LEARNING ST		20 A	1	540 / 540			1	20 A	NO.E	RI	ECEPT LE		_	O B218	2
3	RECEPT LEARNING ST		20 A	1	0107010	540 / 900		1	20 A			ECEPT LE				4
5	RECEPT LEARNING ST		20 A	1		0407 000	1220 / 860	1	20 A			ECEPT LE				6
7	RECEPT ROOM B20		20 A	1	1080 / 900		1220 / 000	1	20 A			CEPT AC				8
9	RECEPT LEARNING ST		20 A	1	1000 / 000	540 / 720		1	20 A			CEPT AC				10
11	RECEPT LEARNING ST		20 A	1		0.07.20	540 / 360	1	20 A			CEPT AC				12
13	RECEPT LEARNING ST		20 A	1	1220 / 180			1	20 A	G		WC ACTIV				14
15	RECEPT LEARNING ST		20 A	1		860 / 180		1	20 A	G		WC ACTI				16
17	RECEPT LEARNING ST		20 A	1			540 / 540	1	20 A			ECEPT LE				18
19	RECEPT LEARNING ST		20 A	1	540 / 860			1	20 A			ECEPT LE				20
21	RECEPT ROOM B20	9, B210	20 A	1		1080 / 1080		1	20 A			ECEPT LE				22
23	RECEPT STEM STORA	AGE B211	20 A	1			360 / 1260	1	20 A			RECEPT	WORK F	ROOM E	3224	24
25	RECEPT STEM STORA	AGE B211	20 A	1	540 / 360			1	20 A			COPIER	WORK R	гоом в	3224	26
27	RECEPT LEARNING ST	UDIO B212	20 A	1		860 / 360		1	20 A			RECEP	T CORRII	DOR B2	226	28
29	RECEPT LEARNING ST	UDIO B212	20 A	1			540 / 0	1	20 A				SPARE			30
31	RECEPT LEARNING ST	UDIO B212	20 A	1	540 / 0			1	20 A				SPARE	<u> </u>		32
33	RECEPT LEARNING ST	UDIO B214	20 A	1		540 / 0		1	20 A				SPARE			34
35	RECEPT LEARNING ST	UDIO B214	20 A	1			540 / 0	1	20 A				SPARE			36
37	RECEPT LEARNING ST	UDIO B214	20 A	1	1220 / 0			1	20 A				SPARE			38
39	RECEPT ROOM B21	5, B216	20 A	1		1080 / 0		1	20 A				SPARE			40
41	VAV TRANSFORME	R B220	20 A	1			500 / 0	1	20 A				SPARE	Ē		42
43	SPARE		20 A	1	0/0			1	20 A				SPARE	Ē		44
45	SPARE		20 A	1		0/0		1	20 A				SPARE	Ξ		46
47	SPARE		20 A	1			0/0	1	20 A				SPARE			48
49	SPARE		20 A	1	0/0			1	20 A				SPARE			50
51	SPARE		20 A	1		0/0		1	20 A				SPARE	Ē		52
53	SPARE		20 A	1			0/0	1	20 A				SPARE	Ē		54
55	SPARE		20 A	1	0/0			1	20 A				SPARE			56
57	NE RECEPT ROOF	-TOP	20 A	1		180 / 0		1	20 A				SPARE			58
59	EF-A2 1/3HP		20 A	1			864 / 0	1	20 A				SPARE			60
			TOT	ALS:	8520 VA	8920 VA	8124 VA									
	TOTAL C	ONNECTED LOAD		_			L CONNECTED	LOAD	(AMPS)	: 71 A						
REMARKS: 28-INCH W			. ,			NOTES: G - GFCI TYPE C			· · · ·							

LOCATION	l: ELECTRICAL A226	SCCR (AMPS RMS	SYMM)· 2	2 000	SERVICE	: 208Y/120V 3Ф 4	1-Wire+Ground	ΔMP ·	225 A	Іман	N: MCB NEMA: Type 1 MOUNTING: SUF	PEACE
	TELEGITATION LE NELLO	Cook (Film Crains		.,000	oz.tvioz	2001/1207 04	T TVIII O T GITGUII G	7	22071	10.5	inalia a Type i meetimeetee.	117102
СКТ	DESCRIPTIO	N	NOTE AMP	POLE	Α	В	С	POLE	AMP	NOTE	DESCRIPTION	CI
1	RECEPT LEARNING ST	UDIO A202	20 A	1	1220 / 540			1	20 A		RECEPT LEARNING STUDIO A214	
3	RECEPT LEARNING ST	UDIO A202	20 A	1		540 / 540		1	20 A		RECEPT LEARNING STUDIO A214	4
5	RECEPT LEARNING ST	UDIO A202	20 A	1			540 / 1220	1	20 A		RECEPT LEARNING STUDIO A214	(
7	RECEPT ROOM A20	3, A204	20 A	1	1080 / 1080			1	20 A		RECEPT ROOM A215, A216	
9	RECEPT LEARNING ST	UDIO A206	20 A	1		540 / 1220		1	20 A		RECEPT LEARNING STUDIO A218	1
11	RECEPT LEARNING ST	UDIO A206	20 A	1			540 / 540	1	20 A		RECEPT LEARNING STUDIO A218	1
13	RECEPT LEARNING ST	UDIO A206	20 A	1	1220 / 540			1	20 A		RECEPT LEARNING STUDIO A218	1
15	RECEPT LEARNING ST	UDIO A208	20 A	1		860 / 360		1	20 A		RECEPT ACTIVITY COMMONS A220	1
17	RECEPT LEARNING ST	UDIO A208	20 A	1			540 / 900	1	20 A		RECEPT ACTIVITY COMMONS A220	1
19	RECEPT LEARNING ST	UDIO A208	20 A	1	540 / 720			1	20 A		RECEPT ACTIVITY COMMONS A220	2
21	RECEPT ROOM A20	9, A210	20 A	1		1080 / 180		1	20 A	G	EWC ACTIVITY COMMONS A220	2
23	RECEPT STEM STORA	AGE A211	20 A	1			540 / 180	1	20 A	G	EWC ACTIVITY COMMONS A220	2
25	RECEPT STEM STORA	AGE A211	20 A	1	360 / 500			1	20 A		VAV TRANSFORMER A220	2
27	RECEPT LEARNING ST	UDIO A212	20 A	1		540 / 720		1	20 A		RECEPT TELECOM A224	
29	RECEPT LEARNING ST	UDIO A212	20 A	1			860 / 1080	1	20 A		RECEPT TELECOM A224	3
31	RECEPT LEARNING ST	UDIO A212	20 A	1	540 / 540			1	20 A		RECEPT ROOM A225, A230	3
33 S	W J-BOX MECHANICAL PE	NTHOUSE D144	20 A	1		500 / 360		1	20 A		RECEPT STAFF TOILET A227, A228	3
35 S	E J-BOX MECHANICAL PEI	NTHOUSE D144	20 A	1			500 / 2400	1	25 A		BOILER CB-A1 D144	3
37 N	E J-BOX MECHANICAL PEI	NTHOUSE D144	20 A	1	500 / 2400			1	25 A		BOILER CB-A2 D144	3
39 N	W J-BOX MECHANICAL PE	NTHOUSE D144	20 A	1		500 / 2400		1	25 A		BOILER CB-A3 D144	4
41 F	RECEPT MECHANICAL PEN	ITHOUSE D144	20 A	1			360 / 0	1	20 A		SPARE	4
43 PU	H-A 1/3HP MECHANICAL P	ENTHOUSE D144	20 A	1	864 / 0			1	20 A		SPARE	4
45 PU	H-A 1/3HP MECHANICAL P	ENTHOUSE D144	20 A	1		864 / 0		1	20 A		SPARE	4
47	SPARE		20 A	1			0/0	1	20 A		SPARE	4
49	NW ROOFTOP REC	CEPTS	20 A	1	360 / 0			1	20 A		SPARE	5
51	EF-C 1/2HP		20 A	1		1176 / 180		1	20 A		VENT FAN KILN A144	5
53	EF-J2 1/4HP		20 A	1			696 / 0	1	20 A		SPARE	5
55	EF-E 1/4HP		20 A	1	696 / 0			1	20 A		SPARE	5
57	EF-J1 1/4HP		20 A	1		696 / 0		1	20 A		SPARE	5
59	EF-G 1/10HP		20 A	1			526 / 0	1	20 A		SPARE	6
			TO	TALS :	13700 VA	13256 VA	11422 VA					
	TOTAL C	ONNECTED LOAD (			<u> </u>		L CONNECTED	LOAD	(AMPS)	: 107 A	4	
REMARKS: 28-INCH W	: IDE PANELBOARD. INTEG	RAL SPD.				NOTES: G - GFCI TYPE (	CIRCUIT BREAK	KER				

	2CL1		PA	NE	LBOAF	RD SCH	EDULE	ı					
OCATION	: ELECTRICAL C222	SCCR (AMPS RM	S SYMM): 22,	,000	SERVICE	: 208Y/120V 3Ф 4	-Wire+Ground	AMP:	225 A	MAIN: ML	O NEMA: Type 1	MOUNTING: SU	RFACE
СКТ	DESCRIPTIO	N	NOTE AMP	POLE	Α	В	С	POLI	AMP	NOTE	DESCRIP	TION	СКТ
1	RECEPT LEARNING ST	UDIO C202	20 A	1	1220 / 540			1	20 A		RECEPT LEARNING	STUDIO C214	2
3	RECEPT LEARNING ST	UDIO C202	20 A	1		720 / 540		1	20 A		RECEPT LEARNING	STUDIO C214	4
5	RECEPT LEARNING ST	UDIO C202	20 A	1			540 / 1220	1	20 A		RECEPT LEARNING	STUDIO C214	6
7	RECEPT ROOM C20	3, C204	20 A	1	1080 / 1080			1	20 A		RECEPT ROOM	C215, C216	8
9	RECEPT LEARNING ST	UDIO C206	20 A	1		1220 / 540		1	20 A		RECEPT LEARNING	STUDIO C218	10
11	RECEPT LEARNING ST	UDIO C206	20 A	1			540 / 540	1	20 A		RECEPT LEARNING	STUDIO C218	12
13	RECEPT LEARNING ST	UDIO C206	20 A	1	540 / 1220			1	20 A		RECEPT LEARNING	STUDIO C218	14
15	RECEPT LEARNING ST	UDIO C208	20 A	1		540 / 360		1	20 A		RECEPT ACTIVITY C	OMMONS C220	16
17	RECEPT LEARNING ST	UDIO C208	20 A	1			540 / 900	1	20 A		RECEPT ACTIVITY C	OMMONS C220	18
19	RECEPT LEARNING ST	UDIO C208	20 A	1	860 / 900			1	20 A		RECEPT ACTIVITY C	OMMONS C220	20
21	RECEPT ROOM C20	9, C210	20 A	1		1080 / 180		1	20 A	G	EWC ACTIVITY CO	MMONS C220	22
23	RECEPT STEM STORA	AGE C211	20 A	1			540 / 180	1	20 A	G	EWC ACTIVITY CO	MMONS C220	24
25	RECEPT STEM STORA	AGE C211	20 A	1	360 / 500			1	20 A		VAV TRANSFOR	MER C220	26
27	RECEPT LEARNING ST	UDIO C212	20 A	1		540 / 720		1	20 A		RECEPT LEARNING	STUDIO C221	28
29	RECEPT LEARNING ST	UDIO C212	20 A	1			540 / 900	1	20 A		RECEPT LEARNING	STUDIO C221	30
31	RECEPT LEARNING ST	UDIO C212	20 A	1	860 / 860			1	20 A		RECEPT LEARNING	STUDIO C221	32
33	RECEPT STORAGE	E D202	20 A	1		720 / 900		1	20 A		RECEPT THINK	TANK C223	34
35	RECEPT STORAGE	E D202	20 A	1			720 / 720	1	20 A		RECEPT TELEC	COM C224	36
37	RECEPT LEARNING ST	UDIO D205	20 A	1	540 / 1080			1	20 A		RECEPT TELEC	COM C224	38
39	PROJ. LEARNING STU	IDIO D205	20 A	1		860 / 540		1	20 A		RECEPT BOOK F	ROOM C225	40
41	RECEPT ROOM D20	7, C228	20 A	1			900 / 720	1	20 A		RECEPT BOOK F	ROOM C225	42
43	RECEPT LEARNING ST	UDIO D205	20 A	1	540 / 540			1	20 A		RECEPT BOOK F	ROOM C225	44
45	SPARE		20 A	1		0 / 720		1	20 A		RECEPT MOTHE	RS C225A	46
47	SE RECEPT ROO	FTOP	20 A	1			360 / 540	1	20 A		RECEPT ROOM C22	26, C227, S206	48
49	S RECEPT ROOF	TOP	20 A	1	360 / 0			1	20 A		SPARE		50
51	EF-F 1/4HP		20 A	1		696 / 0		1	20 A		SPARE		52
53	EF-H 1/2HP		20 A	1			1176 / 0	1	20 A		SPARE		54
55	EF-A1 1/3HP	1	20 A	1	864 / 0			1	20 A		SPARE		56
57	EF-L 3/4HP		20 A	1		1656 / 0		1	20 A		SPARE		58
59	EF-B 1/4HP		20 A	1			696 / 0	1	20 A		SPARE		60
					1001111	10500.11	1 40070 1						
				ALS:	13944 VA	12532 VA	12272 VA	<u>L</u>					
		ONNECTED LOAD	(VA): 38748 \	/A			L CONNECTED	LOAD	(AMPS)	: 108 A			
<b>REMARKS:</b> 28-INCH WI	DE PANELBOARD, INTEGI	RAL SPD.				NOTES: G - GFCI TYPE (	CIRCUIT BREAK	ER					

LOCATIO	N: ELECTRICAL C222	SCCR (AMPS RMS SY	MM):	65,000	SERVICE	: 208Y/120V 3Ф 4	-Wire+Ground A	MP:	400 A	MAI	N: MCB NEMA: Type 1 MOUNTING: SUR	₹FACE
СКТ	DESCRIPTION	I NO	TE AM	IP POLE		В	С	POLE	AMP	NOTE	DESCRIPTION	СКТ
1					8520 / 13944							2
3	PANEL '2BL1'		225	5 A 3		8920 / 12532		3	225 A		PANEL '2CL1'	4
5							8124 / 12272					6
7					0/0							8
9	SPARE		225	5 A 3		0/0		3	100 A		SPARE	10
11							0/0					12
13					0/0			1			SPACE	14
15	SPARE		100	) A 3		0/0		1			SPACE	16
17							0/0	1			SPACE	18
19	SPACE			- 1	0/0			1			SPACE	20
21	SPACE			- 1		0/0		1			SPACE	22
23	SPACE			- 1			0/0	1			SPACE	24
25	SPACE			- 1	0/0							26
27	SPACE			- 1		0/0		3	60 A		SURGE PROTECTION DEVICE (S.P.D.)	28
29	SPACE			- 1			0/0					30
				OTALS :	22464 VA	21452 VA	20396 VA					
	TOTAL CO	ONNECTED LOAD (VA)			22404 VA		L CONNECTED		AMDS	) · 170 Δ		
REMARKS		ONNEOTED LOAD (VA)	1. 0401	Z V/\		NOTES:	LOONNEOTED	LOAD	(AIIII 0)	<i>,</i> 1737		
	S.P.D. CURRENT TECHNOL	OGY TG3 SERIES										

Hamilton
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siates, Inc.

Consulting Engine 732 North Capitol Avenue Indianapolis, IN 46204 Phone: (317) 634-4672 www.redimond.com

HAMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
SCHOOL
11442 Lantern Rd, Fishers, IN 46038

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

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On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
Addendum#2 02/02/2024

ISSUE DATE | DRAWN BY | CHECKED BY | 01/15/24 | GSR | DEW

SCHEDULES PANELBOARDS SECOND FLOOR

CERTIFIED BY:

CERTIFIED BY:

No.

PE19800083

STATE OF

STATE OF

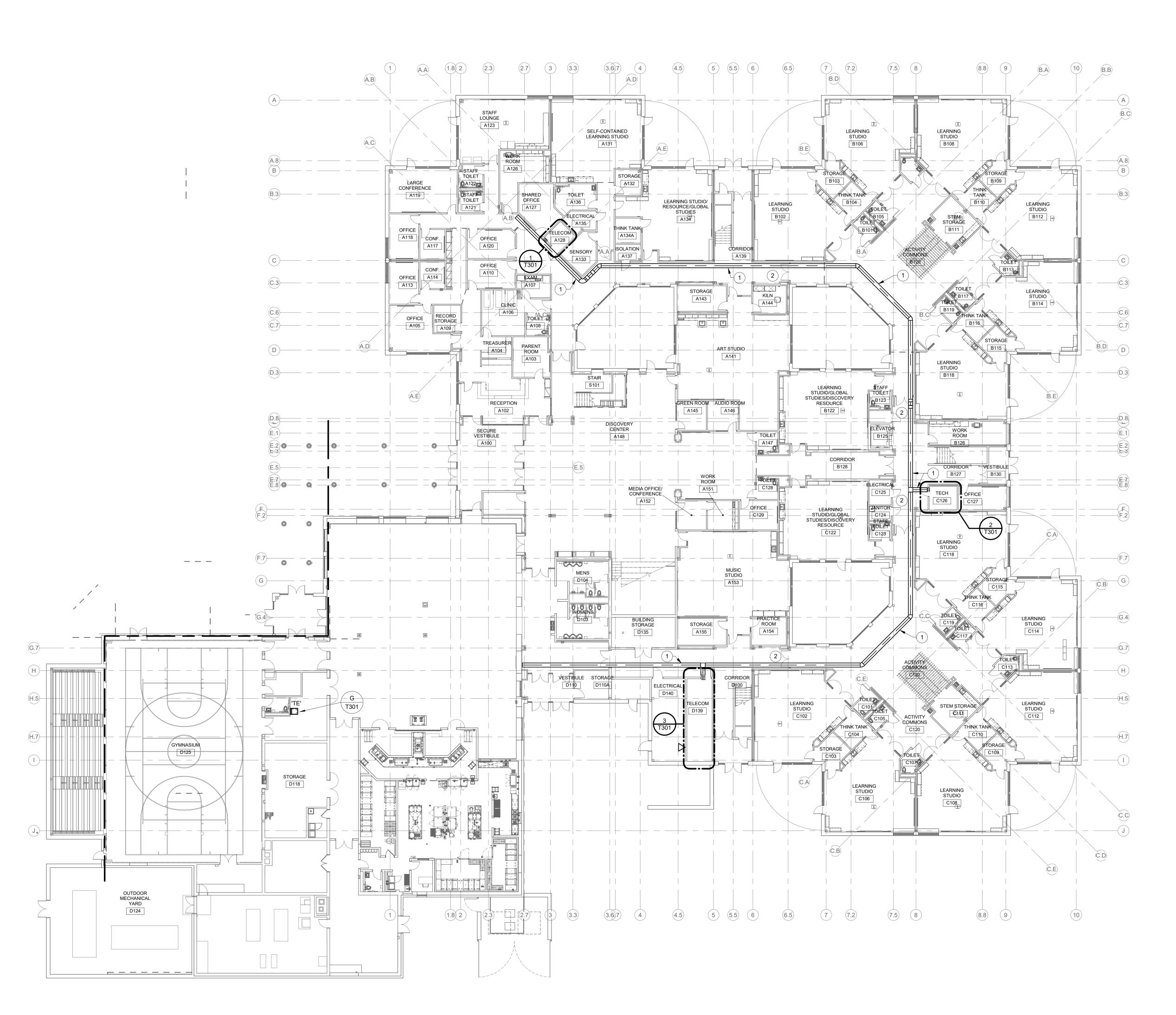
ONAL ENGINEERING

WASTINGTON

WASTIN

W

E614



FIRST FLOOR PLAN - TELECOMMUNICATIONS - OVERALL
SCALE: 1/16" = 1'-0"



WORK TO BE INSTALLED WORK TO REMAIN

#### **GENERAL NOTES:**

1. REFER TO DRAWING T001 FOR ADDITIONAL GENERAL NOTES.

#### **# PLAN NOTES:**

 PROVIDE 18"W x 6"H CABLE TRAY THROUGH CORRIDORS AS SPECIFIED. PLAN ROUTING TO AVOID CONFLICTS WITH OTHER OBSTRUCTIONS. MAINTAIN MINIMUM 12 INCH CLEARANCE AROUND CABLE TRAY FOR CABLE ACCESS. WHERE CABLE TRAY IS SHOWN ABOVE A SOLID INACCESSIBLE CEILING, TERMINATE THE CABLE TRAY ON EACH SIDE AND CONNECT WITH (3) 4 INCH CONDUITS ABOVE INACCESSIBLE

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Consulting Er

I SCHOOLS ONS TO FARY HAMILTON SOUTHEASTERN SOUTHEAST

SCOPE DRAWINGS:

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**REVISIONS:** Addendum#2 02/02/2024

ISSUE DATE DRAWN BY CHECKED BY

VH

01/15/24

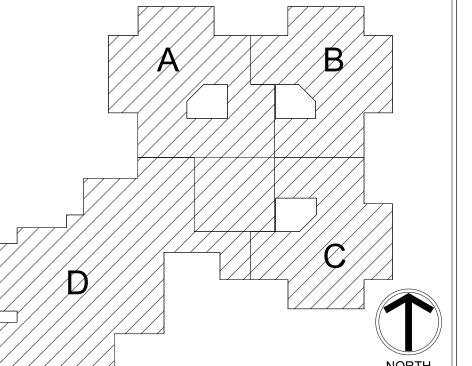
DRAWING TITLE: **OVERALL FIRST** FLOOR PLAN -TELECOM.



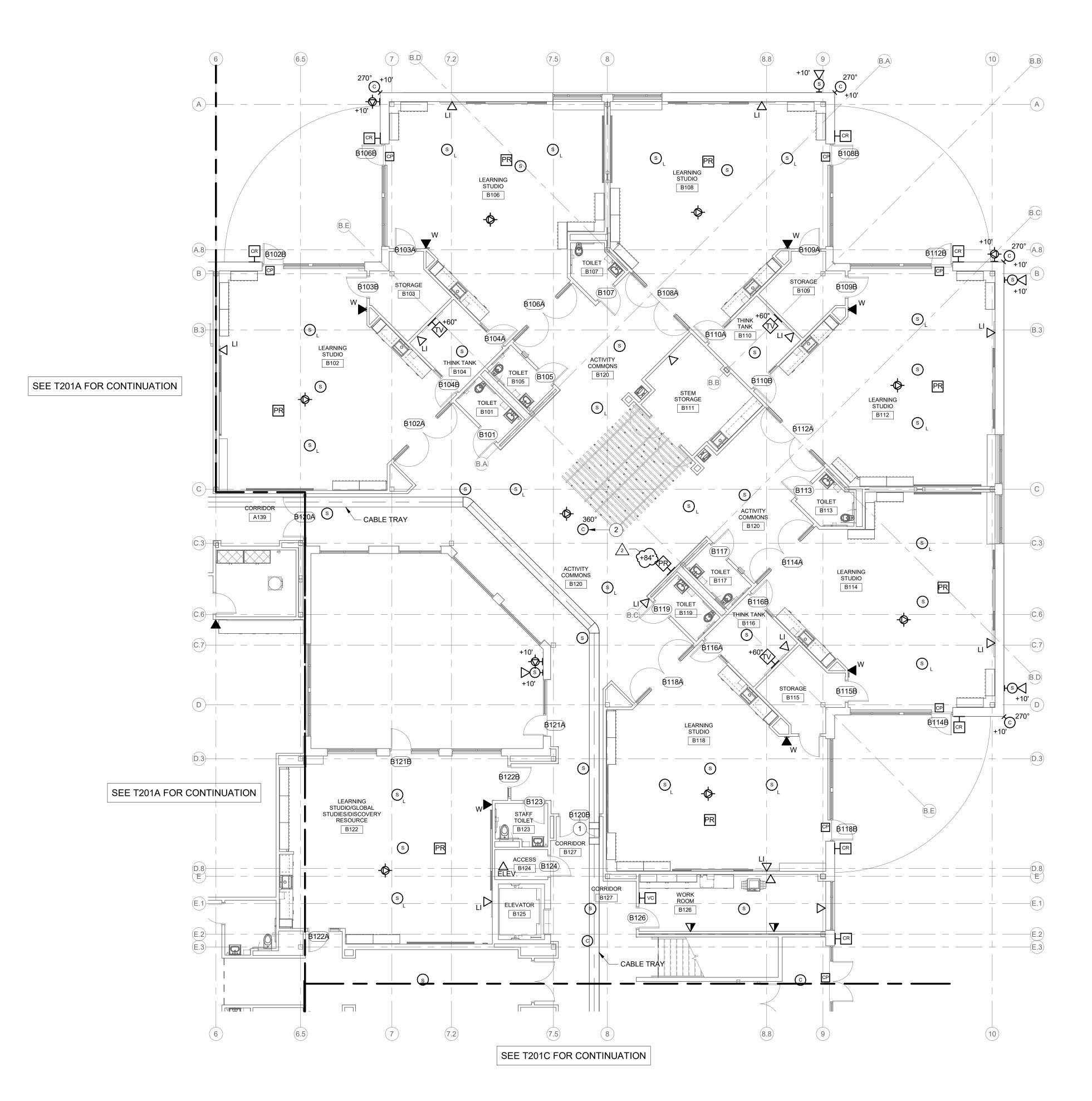
T200

PROJECT NUMBER 2021119





KEY PLAN









WORK TO BE INSTALLED

WORK TO REMAIN

#### **GENERAL NOTES:**

REFER TO DRAWING T001 FOR ADDITIONAL GENERAL NOTES.

#### **# PLAN NOTES:**

- ONE HORIZONTAL UTP CABLE FOR DOOR RELEASE. COORDINATE WITH DIVISION 28.
- PROVIDE OUTLET BOX ON BOTTOM OF BULKHEAD FOR OWNER-PROVIDED CAMERA.

KEY PLAN







and Associates, Inc.
Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672

MILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
SCHOOL
11442 Lantern Rd, Fishers, IN 46038

SCOPE DRAWINGS:

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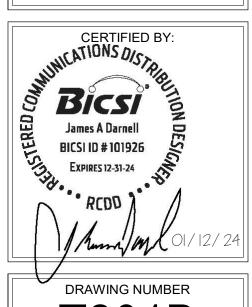
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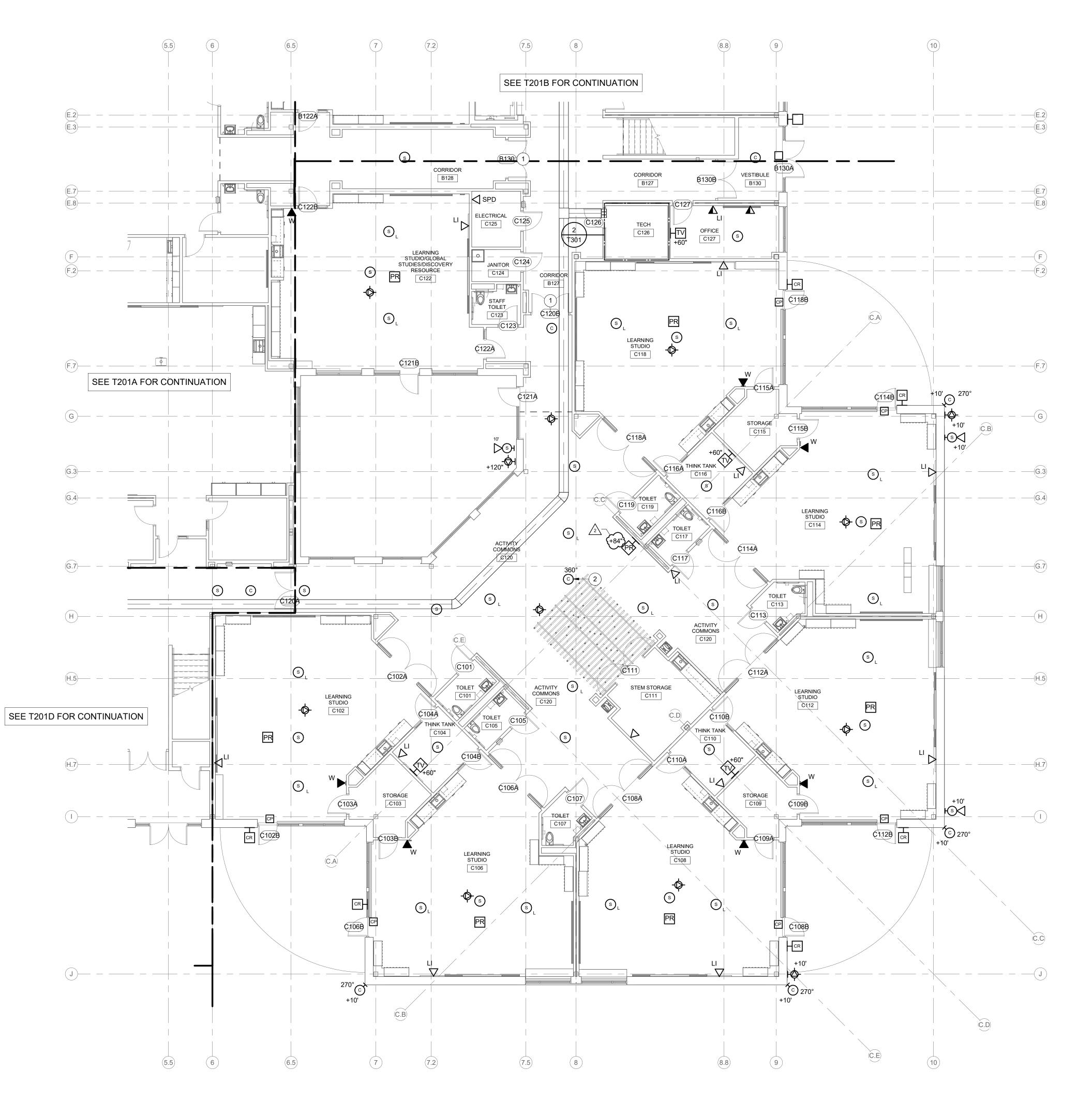
REVISIONS:
Addendum#2 02/02/2024

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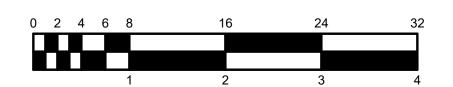
FIRST FLOOR
PLAN TELECOM. UNIT B



T201B



FIRST FLOOR PLAN - TELECOMMUNICATIONS - UNIT C
SCALE: 1/8" = 1'-0"





WORK TO BE INSTALLED WORK TO REMAIN

#### **GENERAL NOTES:**

1. REFER TO DRAWING T001 FOR ADDITIONAL GENERAL NOTES.

#### **# PLAN NOTES:**

- ONE HORIZONTAL UTP CABLE FOR DOOR RELEASE. COORDINATE WITH DIVISION 28.
- PROVIDE OUTLET BOX ON BOTTOM OF BULKHEAD FOR OWNER-PROVIDED CAMERA.

KEY PLAN







SCHOOLS ONS TO FARY

SCOPE DRAWINGS:

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Addendum#2 02/02/2024

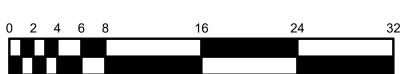
ISSUE DATE | DRAWN BY | CHECKED BY 01/15/24

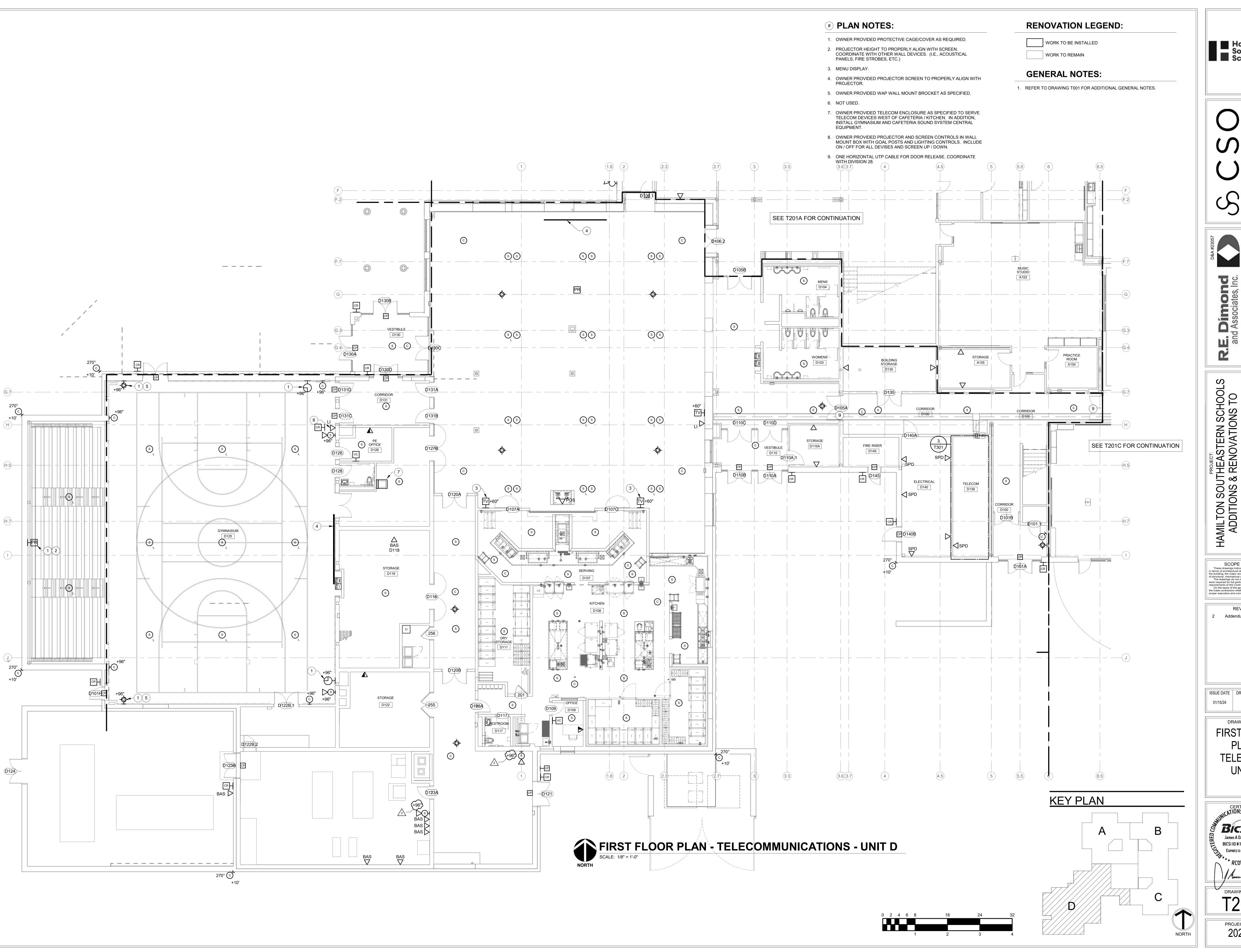
DRAWING TITLE: FIRST FLOOR TELECOM. -



PROJECT NUMBER 2021119

T201C





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Schools



SCOPE DRAWINGS:

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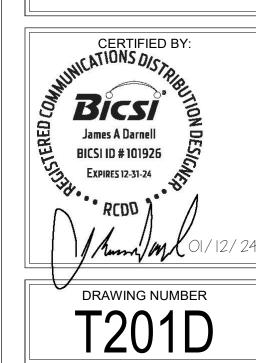
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

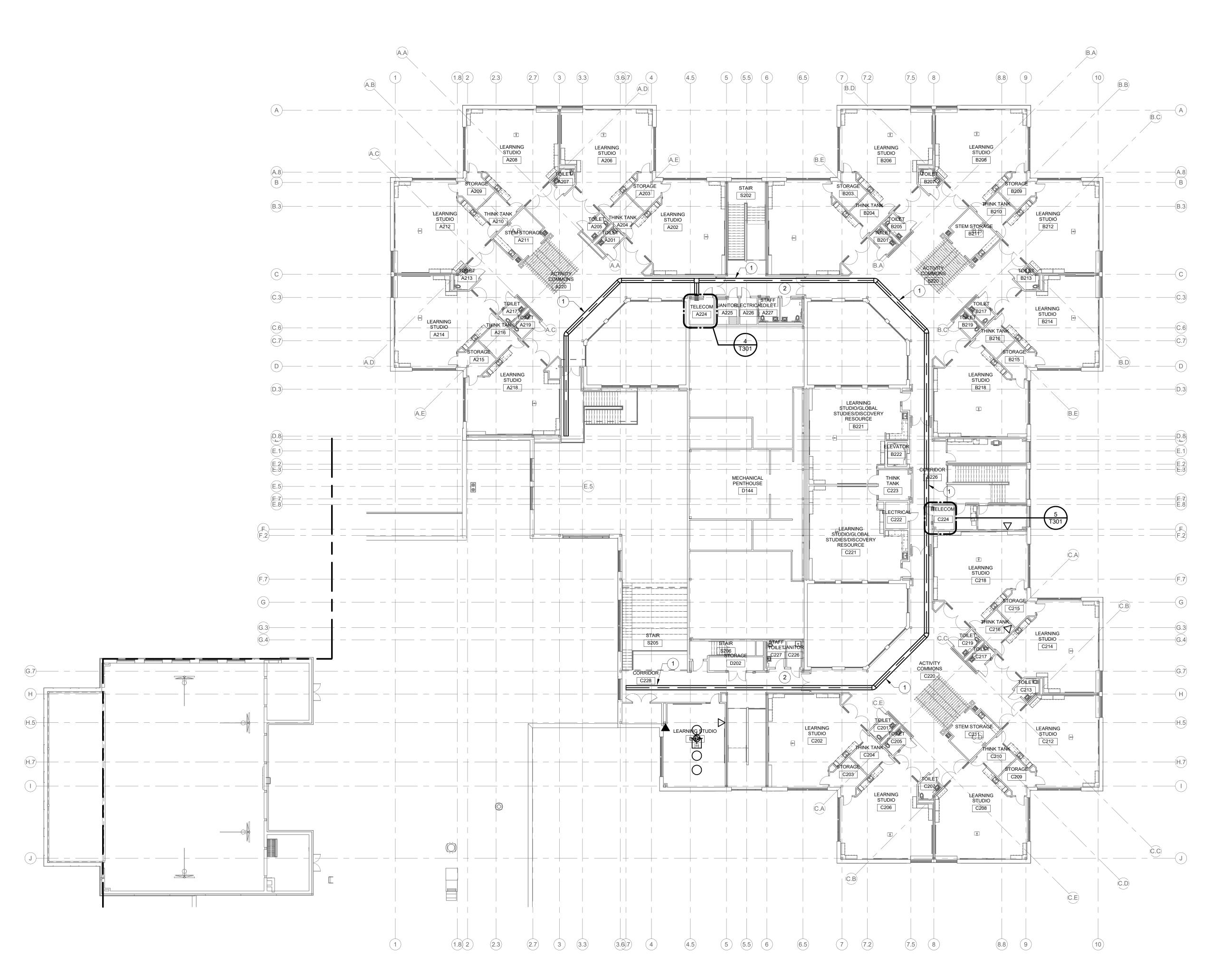
Addendum#2 02/02/2024

**REVISIONS:** 

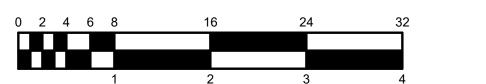
ISSUE DATE | DRAWN BY | CHECKED BY 01/15/24

DRAWING TITLE: FIRST FLOOR TELECOM. -











WORK TO BE INSTALLED

WORK TO REMAIN

#### **GENERAL NOTES:**

1. REFER TO DRAWING T001 FOR ADDITIONAL GENERAL NOTES.

#### **# PLAN NOTES:**

 PROVIDE 18"W x 6"H CABLE TRAY THROUGH CORRIDORS AS SPECIFIED. PLAN ROUTING TO AVOID CONFLICTS WITH OTHER OBSTRUCTIONS. MAINTAIN MINIMUM 12 INCH CLEARANCE AROUND CABLE TRAY FOR CABLE ACCESS.

2. WHERE CABLE TRAY IS SHOWN ABOVE A SOLID INACCESSIBLE CEILING, TERMINATE THE CABLE TRAY ON EACH SIDE AND CONNECT WITH (3) 4 INCH CONDUITS ABOVE INACCESSIBLE

KEY PLAN

Hamilton
Southeastern
Schools

A RENOVATIONS TO SCHOOLS
SELEMENTARY
SCHOOL
SIN Rd, Fish

SCOPE DRAWINGS:

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**REVISIONS:** Addendum#2 02/02/2024

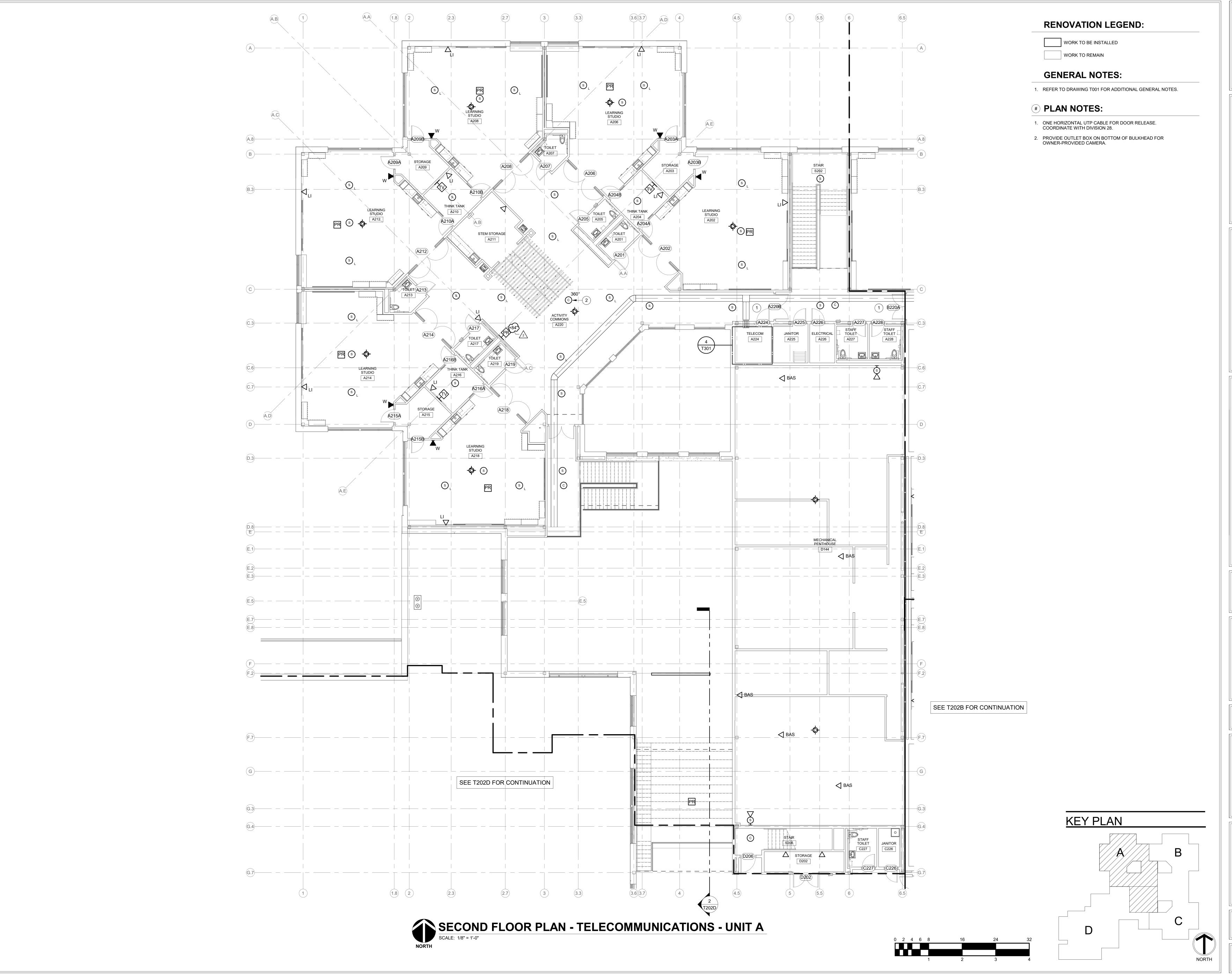
ISSUE DATE | DRAWN BY | CHECKED BY

DRAWING TITLE: OVERALL PLAN -**TELECOM** 

01/15/24



T202



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Southeastern
Schools

Keystone Crossing, Indianapolis, IN 46240 317.848.7800 | csoinc.net



and Associates, Inc.
Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672

AMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL
A11442 Lantern Rd. Fishers. IN 46038

SCOPE DRAWINGS:
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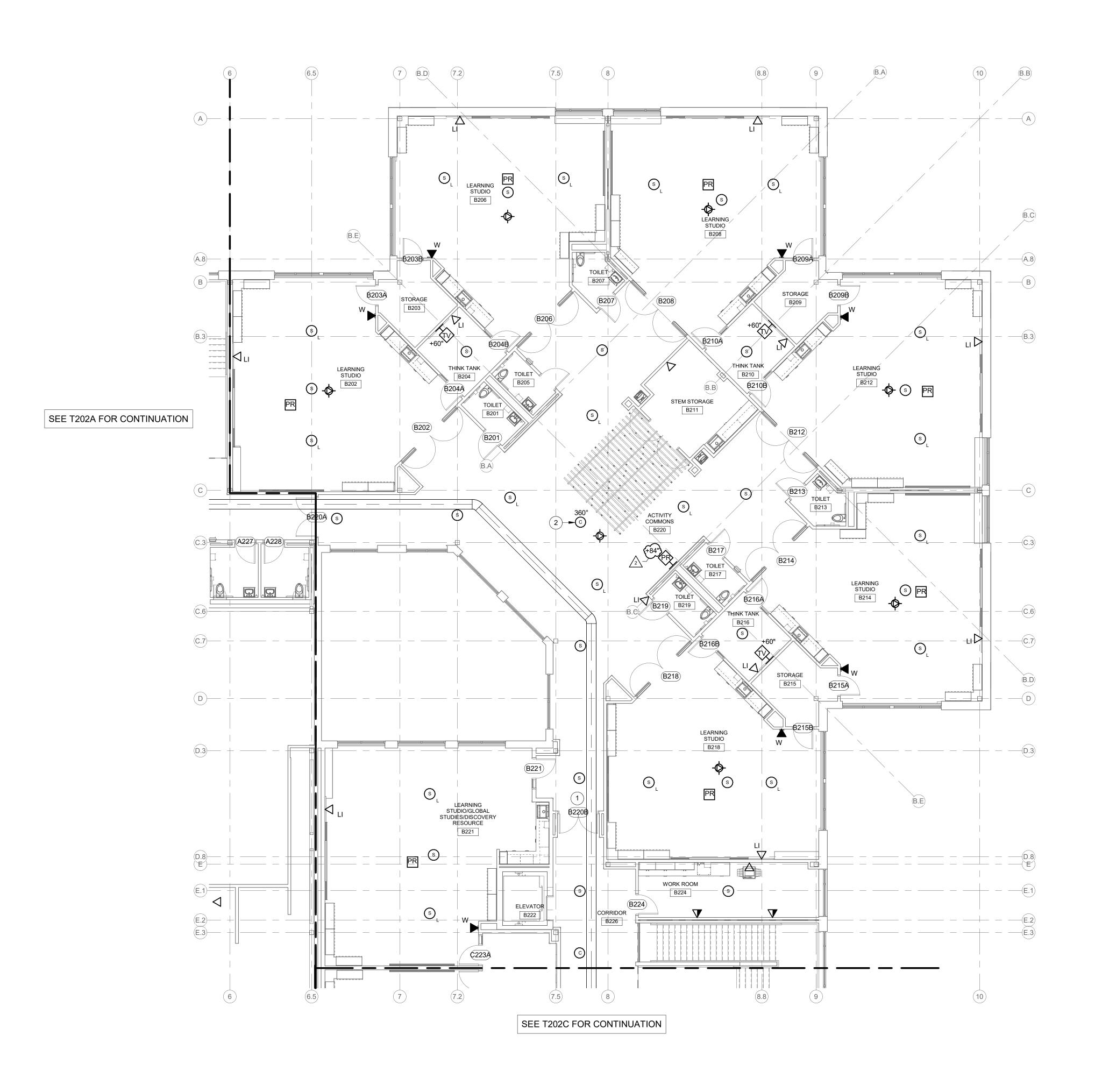
REVISIONS:
Addendum#2 02/02/2024

ISSUE DATE DRAWN BY CHECKED BY 01/15/24 VH JD

PLAN TELECOM. -



T202A









WORK TO BE INSTALLED WORK TO REMAIN

#### **GENERAL NOTES:**

1. REFER TO DRAWING T001 FOR ADDITIONAL GENERAL NOTES.

#### **# PLAN NOTES:**

- ONE HORIZONTAL UTP CABLE FOR DOOR RELEASE. COORDINATE WITH DIVISION 28.
- PROVIDE OUTLET BOX ON BOTTOM OF BULKHEAD FOR OWNER-PROVIDED CAMERA.

KEY PLAN







EASTERN SCHOOLS
ENOVATIONS TO
EMENTARY

SCOPE DRAWINGS:

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**REVISIONS:** Addendum#2 02/02/2024

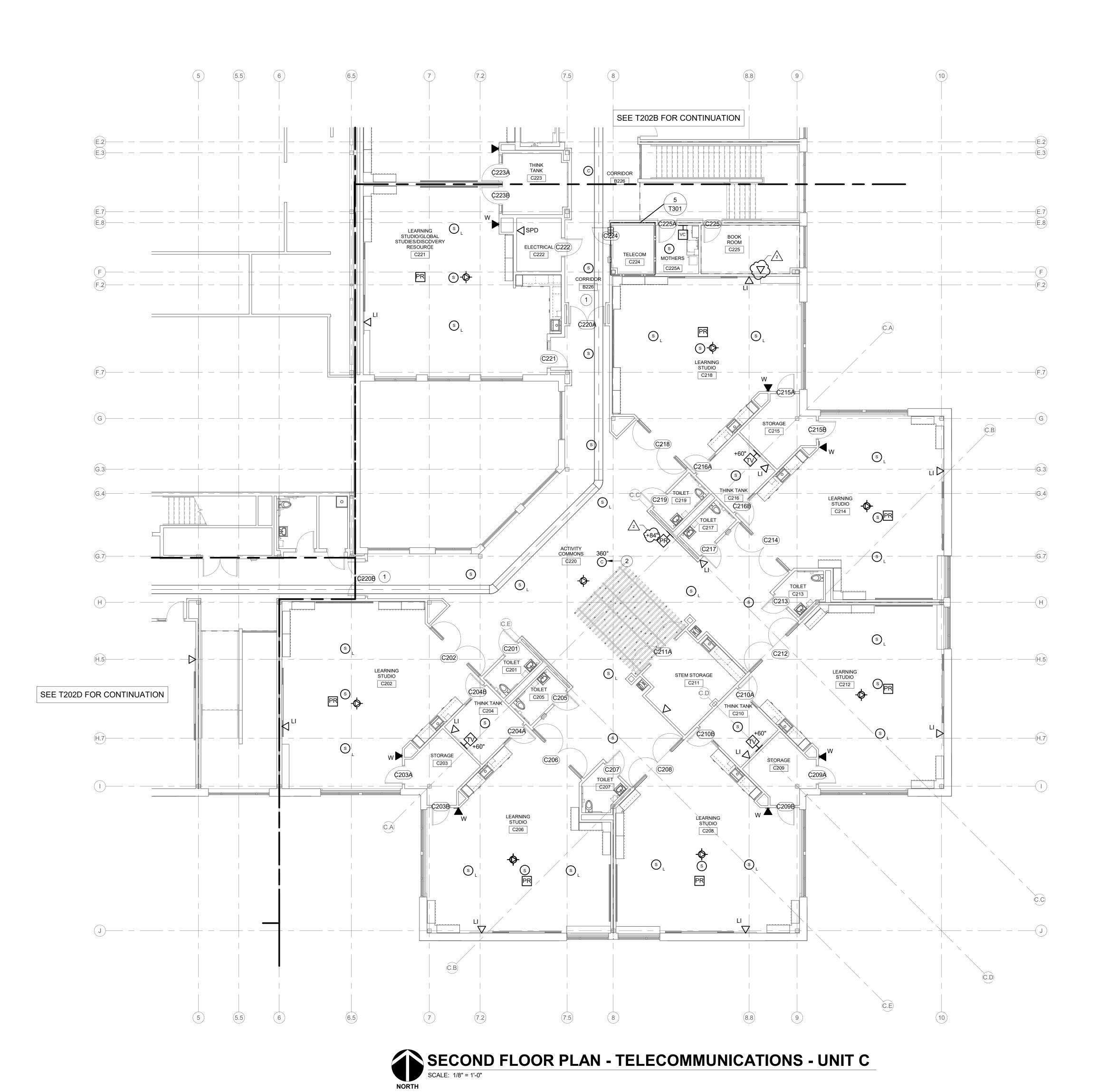
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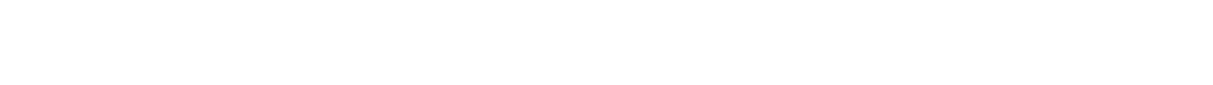
DRAWING TITLE: TELECOM. -

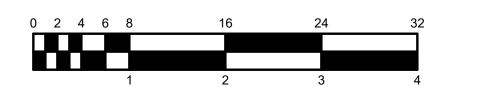


T202B











WORK TO BE INSTALLED

WORK TO REMAIN

#### **GENERAL NOTES:**

REFER TO DRAWING T001 FOR ADDITIONAL GENERAL NOTES.

#### **# PLAN NOTES:**

- ONE HORIZONTAL UTP CABLE FOR DOOR RELEASE. COORDINATE WITH DIVISION 28.
- PROVIDE OUTLET BOX ON BOTTOM OF BULKHEAD FOR OWNER-PROVIDED CAMERA.

KEY PLAN







and Associates, Inc.
Consulting Engineers
732 North Capitol Avenue Indianapolis, IN 46204
Debage 1247, 634, 4627

AMILTON SOUTHEASTERN SCHOOLS
ADDITIONS & RENOVATIONS TO
FISHERS ELEMENTARY
SCHOOL

SCOPE DRAWINGS:

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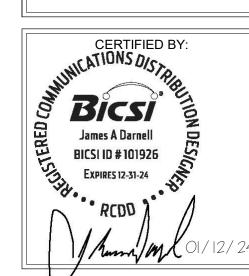
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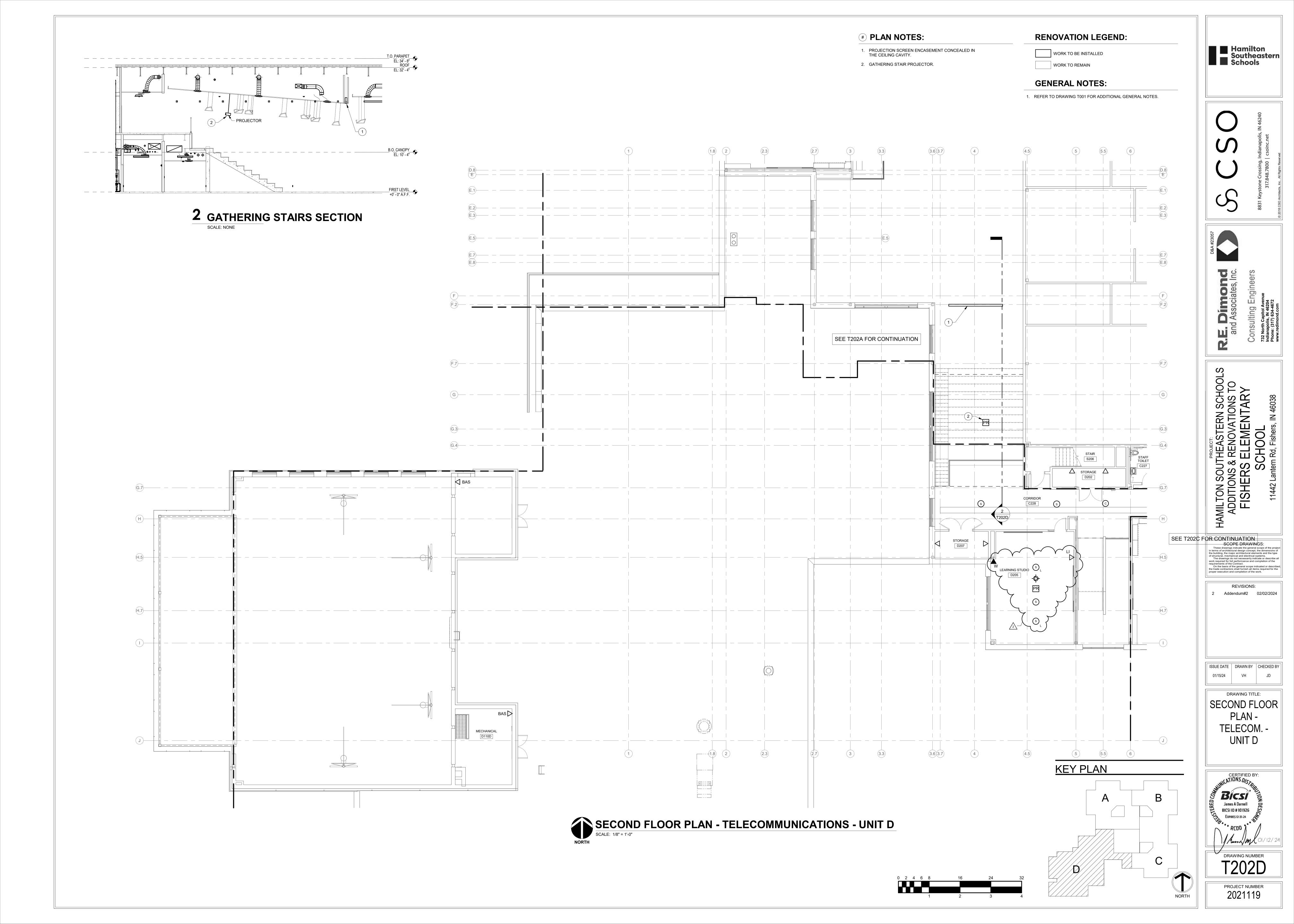
REVISIONS:
Addendum#2 02/02/2024

SUE DATE | DRAWN BY | CHECKED

SECOND FLOOR
PLAN TELECOM. -



T202C



#### Section 00 24 00 - Included Bid Packages ADDENDUM #1 Dated 1/26/24-ADDENDUM #2 Dated 2/2/24

- Bid Package #1-General Trades/Concrete
- 2. Bid Package #2- Structural Demolition
- 3. Bid Package #2A-Selective Demolition
- 4. Bid Package #4-Masonry
- 5. Bid Package #5-Structural Steel
- 6. Bid Package #7-Roofing
- 7. Bid Package #7A-Metal Panels
- 8. Bid Package #8-Aluminum & Glazing
- 9. Bid Package #8A-Doors & Hardware
- 10. Bid Package #9-Metal Studs, Drywall, Insulation & Acoustical Ceilings
- 11. Bid Package #9A-Flooring & Tile
- 12. Bid Package #9B- Painting, Wall Covering & Staining
- 13. Bid Package #11-Kitchen Equipment
- 14. Bid Package #21-Fire Suppression
- 15. Bid Package #22-Plumbing
- 16. Bid Package #23-Mechanical, HVAC, Ductwork & Temperature Controls.
- 17. Bid Package #26-Electrical
- 18. Bid Package #31-Earthwork & Utilities
- 19. Bid Package #32-Landscape
- 20. Bid Package #32A-Paving & Stone
- 21. Bid Package #32B-Fencing

GENERAL TRADES BP 1 ADDENDUM 1

Attachment #1 – ADDENDUM 2

### **General Subcontract Scope**

1. Provide all layouts included in this agreement. Wurster Construction will provide control lines and a benchmark

- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, equipment, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material, including that material supplied by material sub-subcontractors via tailgate delivery at the project site by phase.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 15 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Coordinate with testing labs to perform all tests and inspections as required. Wurster Construction will contract with the lab and provide the contact.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.

- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.
- 21. There will be at least four punchlists per phase including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.
- 22. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with it's sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to it's work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work
- 25. This subcontractor will be responsible for daily road / parking lot clean up for debris tracked into adjacent streets by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses and hard soled work boots are required on the project at all times.
- 27. All material must be stored according to manufacturer's requirements.
- 28. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include items(but not limited to these items) associated with the General Trades. Concrete work or reasonably inferable to complete the General Trades/Concrete scope:

General Trades BP 1 ADDENDUM 1

1. Division 06- Wood, Plastics and Composites

- **ADDENDUM 2**
- a. Excludes 06 16 43 Glass-Mat Gypsum Wall Sheathing(Drywall BP-9)
- 2. Specification Section 05 52 15 Aluminum Pipe and Tube Railings
- 3. Specification Section 05 73 00 Decorative Metal Railings
- 4. Specification Section 07 84 13 Penetration Firestopping-Removed for BP 1-Included in BP 21-23
- 5. Specification Section 07 84 46 Fire Resistive Joint System-Includes top of wall work
- 6. Specification Section 07 92 00 Joint Sealants
- 7. Specification Section 07 95 00 Expansion Control
  Specification Section 08 11 13 Hollow Metal Doors and Frames(Install only provided by BP 8A)
  Specification Section 08 14 19 Wood Doors(Install only provided by BP 8A)
- 8. Specification Section 08 31 13 Access Doors and frames
- 9. Specification Section 08 33 23 Overhead Coiling Doors
  Specification Section 08 71 00 Door Hardware(Doors pre-hardwared by BP 8A installed by this BP)
- 10. Specification Section 09 77 23 Fabric-Wrapped Panels-Remove from BP 1 -Included in BP 9
- 11. Specification section 09 84 33 Sound Absorbing Wall Units-Remove from BP1-Included in BP 9
- 12. Division 10-Specialties
- 13. Specification Section 11 66 23 Gymnasium Equipment Specification Section 11 66 26 Time Out Room Padding
- 14. Specification Section 11 68 00 Playground Equipment
- 15. Specification Section 11 95 00 Kilns
- 16. Division 12-Furnishings
- 17. Division 14- Conveying Equipment
- 18. Specification Section 32 18 16 Playground Protective Surfacing- Synthetic Turf

- 19. Included on Drawings AD201D; AD201E; AD202; AD203 Notes:
  - a. Note 14, 15 & 18(athletic wall padding, Ceiling suspended gym equipment & Bleachers)
- 20. Included on Drawing C101 & C102- Notes:
  - a. Note 16, <del>29</del>, <del>30</del>, <del>31</del> & **32** (Remove item **29**, **30** & **31** from BP **1** Add item **32**) On C-102 Note **32** is mislabeled and should be **31**.
- 21. Survey control will be provided by Wurster Construction. From this information BP 1 to provide the survey and control for this BP and BP 32A and by phase.
- 22. Prior to construction provide a video of the existing conditions. Specifically asphalt, concrete, public roads and structures.
- 23. Site Furnishings as called out on L202 F01-F04.
- 24. Firestopping at the top of rated walls (MPE trades include their penetrations)
- 25. Required spray foam insulation-Reference Note 1 on A450 at roof drains
- 26. Furnish and Install all inwall wood blocking(Fire Treated)
  - a. Specifically in wall for cabinets (2 rows of blocking at the upper cabinets and 1 row at base cabinets)
  - b. Folding partition support
  - c. Roof Blocking(Pressure treated) & blocking at lintels & coping(A415 typical details 5-9)
  - d. Window blocking
  - e. Toilet Accessories
  - f. Fixtures
  - g. TV's and projection screens
- 27. Interior caulking of windows, window stools, casework and door frames by phase.
- 28. Exterior caulking of sidewalks, and masonry control joints by phase.
- 29. Provide four wooden ladders per level for trade access. (2 @ C/D and 2 @ A/B)
- 30. Provide temporary fire extinguishers per OSHA throughout the building
- 31. Install temporary wood fillers in pan stairs till the concrete can be poured.
- 32. Include any permits, and as-builts(by phase)
- 33. Cleaning of property and adjoining roads during concrete operations. Cleaning to be completed on a daily basis.
- 34. Included is multiple mobilizations to meet the project phasing
- 35. Included is full time supervision of this trade

### **ADDENDUM 1 added line items:**

- 36. Furnish and install the waterproofing of the elevator pit(7-13-26A & 7-13-26B)
- 37. Furnish and install the aluminum handrails (5-52-13A)
- 38. Equipment install the TV1 & PS2 on A900
- 39. Furnish and install the Knox Box KB1 on A900
- 40. A800 WDI furnish and install Wood panels
- 41. A800 WD2 & WD3 Furnish and install the wood veneer.
- 42. Included is the elevator weight testing and threshold.
- 43. Included is the caulking of dissimilar materials including the brick control joints and joints.
- 44. Include the pumping of the water in the elevator pit prior to work in the pit.
- 45. Maintain the safety cables after BP 5 leaves the site. Remove the cables at the proper time.
- 46. Provide wooden handrails at the stairs till the permanent railings are installed.
- 47. Furnish and Install the wood blocking for door and window frames (Examples on A510 & A511)

### **ADDENDUM 2 added line items:**

- 48. Receive, deliver to their location on site and install all hollow metal doors frames in metal studs or masonry.
- 49. Receive, deliver to their location on site and install all Wood and Metal Doors.
- 50. This BP will coordinate and inventory all frames, wood door and Hollow metal door with BP 8A.

### 51. Note added scope for this BP 1 on the Phasing plans.

### **CONCRETE**

- 1. Division 03-Concrete
- 2. Specification Section 07 21 00 Thermal Insulation specifically for Foundation/Under Slab
- 3. Specification Section 32 11 23 Granular Base
- 4. Specification Section 32 13 13 Concrete Paving
- 5. Excavation for footings and backfill per phase
- 6. Excavation for elevator pit and backfill. Removal of excavated materials from the site.
- 7. Excavation for foundations and removal of the spoils from the project site.
- 8. Sawing of concrete & excavation for the freezer slab and removal of the materials from the site.
- 9. Excavation and stone fill for curbs and sidewalks. Spoils to be removed from the site. BP 31 to provide the excavation and compaction to +/- .1 foot.
- 10. Form & pour elevator sump pit slab and walls detail 5/S402. Grate by BP 35. Scope includes excavation/and spoil removal off site.
- 11. Form and pour the elevator pit. Scope includes the excavation/backfill and spoil removal off site.
- 12. Furnish and install the reinforcing steel for the masonry on elevated decks per detail 12/S405 including verticals.
- 13. 6/A302 provide the concrete foundation including reinforcing steel for the monument sign(Foundation 3'x14'x18" w/ 1'x2'x10' pedestal). Scope includes the excavation/backfill and spoil removal off site.
- 14. Placement of anchor bolts and embeds- material provided by BP 5.
- 15. Installation of Electrical (BP 26) and Plumbing (BP 22) sleeves provided and located by BP 22 & 26.
- 16. Placement of dowels for masonry walls in concrete per phase
- 17. Reinforcing and pouring of elevated metal decks and pan stairs
- 18. Furnish and install the interior concrete inside the freezer/cooler per K103 as well as the sub slab per detail 14 on S402. Scope includes excavation and spoil removal off site and any stone work. BP 1 will layout and coordinate BP2A's removal of the concrete for the Freezer/Coolers.
- 19. Structural slabs and shoring per phase
- 20. Sidewalks including stone subgrade including excavation, backfill and spoil removal off site
- 21. Curbs including excavation/backfill & spoil removal off site. Curb as called out on L202 C01-C06(Excludes C 03 -by BP 32A)
- 22. Set bollards-Materials provided by BP 5.
- 23. Light pole bases are excluded (Electrical Contractor BP 26)
- 24. Equipment pads including excavation/backfill and spoil removal off site.
- 25. Exterior steps
- 26. Exterior concrete slabs and stone subgrade including excavation and spoil removal off site. Reference L600 for Details. BP 31 to provide subgrade to +/- .10 Foot.
- 27. Interior ramp and steps
- 28. Chiller Equipment Pad M413 Detail F
- 29. Condensing Boiler Pads M412 Detail B
- 30. Exterior Pipe support Concrete/Stone including excavation/backfill M411 Detail G.
- 31. Concrete for stairs and landings- Removal of wood treads and cleaning of treads ahead of concrete placement.
- 32. Foundation insulation including at Slab on Grade. See details 2/S701; 1/S701; 1-4/A401 and 1/A402(There could be other details of the underslab insulation in the plans.)
- 33. Reinforcing
- 34. Grout steel column base plates
- 35. Cleaning of SOD ahead of concrete pouring operations.
- 36. Vapor barrier
- 37. Drainage fill under slab-granular fill

CSO

- 38. Expansion and control joints
- 39. Curing compound
- 40. Saw cuts for control joints
- 41. Sealers at exposed concrete slabs-note on finishing plans
- 42. Concrete pumping if necessary
- 43. Surface dewatering as required
- 44. Winter charges for concrete.
- 45. Provide truncated dome surface for all ADA ramps in sidewalks. Ramps as called out on L202 R01-R03.
- 46. Protect the existing building, new structure and site from damage during contractor's installations.
- 47. All other work as outlined in the concrete specification sections, associated sections and specifications and included in the contract documents included.
- 48. Location of all utilities prior to commencing work. Public and private locates by phase.
- 49. Removal of all spoils from the jobsite -Provide the concrete washout per drawing.
- **50.** Cleaning of property and adjoining roads during earthwork and concrete operations. Cleaning to be completed on a daily basis.
- 51. Allowances:
  - a. General Allowance- Include \$300,000

### **ADDENDUM 1 added line items:**

51.Geofoam base & poured stair as shown on detail1/A425

52.Grouting of Hollow Metal frames per details J9, J10 & J15 on A510 & A511(Deleted by BP #4)

53. Furnish and install the slab on Grade as indicated on S401 with stone and vapor barrier. BP 31 to provide subgrade to +/- .1 foot.

DEMOLITION BP#2 ADDENDUM 1

Attachment #1 – ADDENDUM 2

### **General Subcontract Scope**

1. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.

- 2. There will be no labor increases to the contract amount as a result of any labor rate increases through the course of the project.
- 3. The subcontractor shall provide all ladders, scaffolds, hoisting, and hand lifts as required for the completion of their work.
- 4. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean-up being performed by Wurster Construction and back charged to this subcontractor.
- 5. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property to the owner) shall be the sole responsibility and liability of this subcontractor.
- 6. Complete all demolition as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 7. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 8. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime, multiple shifts, or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 9. Perform all tests and inspections as required.
- 10. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 11. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, adjusting, punch lists, etc.
- 12. Should it be determined necessary by Wurster Construction, the subcontractor agrees to payment via a joint check agreement with its sub-subcontractors and material suppliers.
- 13. This subcontractor shall be responsible for general conditions as it relates to its work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 14. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 15. This subcontractor will be responsible for daily road / parking lot clean up for debris tracked into adjacent areas by his operations including sweeping.
- 16. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats and hard soled work boots are required on the project at all times. Eye protection must be work when required under the OSHA standard.
- 17. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include the below items(but not limited to these items) associated with the Structural Demolition or reasonably inferable to complete the Structural Demolition scope:

### **STRUCTURAL DEMOLITION BP #2**

Addendum 1

1. Specification Section 02 41 19 Selective Structure Demolition

**ADDENDUM 2** 

- 2. Include the demolition Notes:
  - a. C101 & C102 Notes 5 & 6
  - b. AD201D, AD201E, AD202, AD203 Note 1
  - c. Includes the demolition of the front canopy and its foundations.
- 3. Provide dumpsters/Trucking for this BP's work and the removal of demolished items.
- 4. Demo Contractor is responsible for calling in utility locates public and private per phase.
- 5. Complete interior / exterior architectural demo as detailed in the contract documents per PHASE.
- 6. Complete removal of all plumbing, electrical and mechanical systems as detailed in the contract documents per phase. Contractor is responsible for verifying utilities are disconnected.
- 7. Protection of fire sprinkler system during demolition.
- 8. Temp shoring as required to provide safe demolition and maintain the structure to remain.
- 9. Contractor is to protect the existing building and site from damage during removal of debris. Coordinate the demolition activity with the local fire department and Fire Marshall. Inform the FM of entrance and exit of the site and furnish a fire watch.
- 10. Contractor is to provide fall protection, per OSHA standards, for any holes or openings created during the demolition process.
- 11. Allowance:
- i. Include a \$50,000 allowance

### **SELECTIVE DEMOLITION BP#2A**

**ADDENDUM 1** 

Attachment #1 – ADDENDUM 2

### **General Subcontract Scope**

1. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.

- 2. There will be no labor increases to the contract amount as a result of any labor rate increases through the course of the project.
- 3. The subcontractor shall provide all ladders, scaffolds, hoisting, and hand lifts as required for the completion of their work.
- 4. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean-up being performed by Wurster Construction and back charged to this subcontractor.
- 5. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property to the owner) shall be the sole responsibility and liability of this subcontractor.
- 6. Complete all demolition as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 7. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 8. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime, multiple shifts, or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 9. Perform all tests and inspections as required.
- 10. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 11. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, adjusting, punch lists, etc.
- 12. Should it be determined necessary by Wurster Construction, the subcontractor agrees to payment via a joint check agreement with its sub-subcontractors and material suppliers.
- 13. This subcontractor shall be responsible for general conditions as it relates to its work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 14. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 15. This subcontractor will be responsible for daily road / parking lot clean up for debris tracked into adjacent areas by his operations including sweeping.
- 16. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats and hard soled work boots are required on the project at all times. Eye protection must be work when required under the OSHA standard.
- 17. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include the below items(but not limited to these items) associated with the Selective Demolition or reasonably inferable to complete the Selective Demolition scope:

### **SELECTIVE DEMOLITION BP #2A**

### **ADDENDUM 1**

- 1. Specification Section 02 41 19 Selective Structure Demolition
- 2. Include the demolition Notes:
  - a. AD201D, AD201E, AD202, AD203 Notes 2-26 & 28-31
    - i. Gymnasium Equipment(Item 14, 15 & 18) by BP 1
    - ii. Plumbing fixtures (Item 7) by the plumber BP 22
    - iii. Windows(Item 8) to be removed by BP 8
    - iv. Roofing Demo(Item 22) by BP 7
    - v. Lights (Item 17 & 31) by BP 26
    - vi. Wall openings item 4 by BP 4
- 3. Provide dumpsters/Trucking for this BP's work and the removal of demolished items.
- 4. Demo Contractor is responsible for calling in utility locates public and private per phase.
- 5. Complete interior / exterior architectural demo as detailed in the contract documents per PHASE.
- 6. All interior demo is to be complete in order for surfaces to receive new materials per phase. This is to include scrapping/grinding of mastics from floors and VWC removal.
- 7. Concrete sawing and removal of the freezer cooler slab and removal of demolished materials offsite. AD201D item 28.
- 8. Complete removal of all plumbing, electrical and mechanical systems as detailed in the contract documents per phase. Contractor is responsible for verifying utilities are disconnected.
- 9. Protection of fire sprinkler system during demolition.
- 10. Temp shoring as required to provide safe demolition and maintain the structure to remain.
- 11. Contractor is to protect the existing building and site from damage during removal of debris.
- 12. Contractor is to provide fall protection, per OSHA standards, for any holes or openings created during the demolition process.
- 13. Demolished equipment and materials is to be offered to the Owner prior to removal from the jobsite:
  - a. Audiovisual equipment
  - b. Bleachers
  - c. Lockers
- 14. Allowance:
- i. Include a \$25,000 allowance

Masonry BP 4 ADDENDUM 1

Attachment #1 – ADDENDUM 2

### **General Subcontract Scope**

1. Provide all layouts included in this agreement. Wurster Construction will provide control lines and a benchmark

- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 10 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.

- 21. There will be at least four punchlists per phase including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.
- 22. Should it be determined necessary by Wurster Construction, the subcontractor agrees to payment via a joint check agreement with its sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to it's work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 25. This subcontractor will be responsible for daily road / parking lot clean up for debris tracked into adjacent areas by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses, and hard soled work boots are required on the project at all times.
- 27. All material must be stored according to manufacturer's requirements.
- 28. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include items(but not limited to these items) associated with the Masonry work or reasonably inferable to complete the Masonry scope:

### Masonry BP #4

**ADDENDUM 1 & ADDENDUM 2** 

- 1. Division 04- Masonry
- 2. Specification Section 07 21 00 Thermal Insulation-Behind the veneer masonry
- 3. Provide (3) brick options for Brick Color "A" and "B" for selection by Architect
- 4. Install masonry steel lintels(Supplied by the steel BP 5)
- 5. Masonry lintels by this BP #4
- 6. Provide a masonry mockup with all materials and a window to show flashing and water weeps.
- 7. Limestone
- 8. Anchors for limestone
- 9. Furnish and install insulation behind masonry and in between masonry units. Sealing of insulation joints per specifications. **BP 9 will include insulation on metal studs/Sheathing.**
- 10. Match existing masonry: Coursing, bonding, color and texture
- 11. Install CMU's for but not limited to interior walls, opening infills, and radius wall at column line B/3.
- 12. Install bearing plates, embeds and steel lintels in masonry provided by the BP 5.
- 13. Work with BP 5 to install lintels in new openings, see AD201D item #4. Opening demolition by BP 5.
- 14. Masonry wall reinforcing (vertical and horizontal as required)
- 15. Grout cores of cmu's as required
- 16. Furnish and install the reinforcing steel in the elevator shaftwalls.
- 17. In-progress cleaning and final cleaning of all masonry by phase
- 18. Exterior and interior Face Brick
- 19. Any exposed masonry will be reviewed as installed and no chipped corners or gouges will be allowed.
- 20. Furnish and install flashing and accessories reference 1-4 details on A407.
- 21. Masonry at the monument sign 6/A302.
- 22. Provide adequate protection for inclement weather-Winter protection includes scaffold enclosure and heat required to maintain masonry operations. Specifically but not limited to masonry at Units C & D.
- 23. Remove excess materials from site after use by phase.

CSO

- 24. Protect the existing building, new structure and site from damage during contractor's installations.
- 25. Furnish and Install the flashing at perimeter wall base.
- 26. All other work as outlined in the Unit Masonry specification section, associated sections and specifications and included in the contract documents included.
- 27. Include any permits and as-builts per phase.
- 28. Grouting of door frames in masonry

### **ADDENDUM 1 added line items:**

- 29. Include the cast stone medallion detail 8/A403
- 30. Installation of plumbing pipe sleeves in masonry. Layout by BP 22.
- 31. Allowance to be included as part of the cost of this BP:
  - a. General Allowance \$75,000.00

### **ADDENDUM 2 added line items:**

32.

Structural Steel BP 5 ADDENDUM 1

Attachment #1 – ADDENDUM 2

### **General Subcontract Scope**

1. Provide all layouts included in this agreement. Wurster Construction will provide control lines and a benchmark

- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 10 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 18. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 19. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.

- 20. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with it's sub-subcontractors and material suppliers.
- 21. This subcontractor shall be responsible for general conditions as it relates to it's work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 22. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 23. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 24. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses, and hard soled work boots are required on the project at all times.
- 25. All material must be stored according to manufacturer's requirements.
- 26. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include items(But not limited to these items) associated with the Structural Steel work or reasonably inferable to complete the Structural Steel scope:

Structural Steel BP 5

- 1. Division 05-Metals
  - a. Excludes 05 52 15 Aluminum Pipe and Tube Railings-by BP 1
  - b. Excludes 05 40 00 Cold-Formed Metal Framing-by BP 9
  - c. Excludes 05 73 00 Decorative Metal Railings-by BP 1
- 2. All materials are to be delivered and installed by Phase. No storing of future phase materials on site will be allowed
- 3. Furnish anchor bolts and embedded plates to be installed by the BP 1 by phase.
- 4. Furnish all bollards to be installed by the BP 1 by phase.
- 5. Joist/Deck, Tube Columns, Beams, Channels & Framing Tubes per documents
- 6. Furnish the 3": deep rib acoustic steel roof deck with acoustic batts 4/S404-Install of batts by BP7.
- 7. Required shoring at the gym ahead of the new addition demolition and installation of foundations and new steel
- 8. Steel beams at the penthouse- coordinate with BP 22 and hold off the installation of needed beams/deck till the HVAC equipment can be installed. Then erect the missing steel beams and deck.
- 9. Continuous Angle on Beams per documents
- 10. Pour stop bent with studs
- 11. X-Bracing
- 12. Continuous Angle with anchors
- 13. Brick Lintels for Doors-Windows-Galvanized by phase
- 14. Furnish and install new lintels in existing walls AD201D & AD202 Note 4
- 15. Roof drain frames
- 16. Furnish and install the roof top curb support 16/S404.
- 17. Furnish and install the Roof ladder 1/A312-(Also noted on A900 item LD1)
- 18. Removal of nelson stud insulators prior to concrete cleaning of SOD.
- 19. Grating for the elevator sump- 5/S402
- 20. Bearing plates
- 21. Painted steel pit ladder
- 22. Painted steel roof access ladder

ADDENDUM 1
ADDENDUM 2

- 23. Roof hatch frame
- 24. Skylight Frames
- 25. HVAC roof penetration frames
- 26. Rolled plate
- 27. All labor and material for connecting to masonry walls
- 28. Provide stairs and landings complete with handrails per contract documents.
- 29. Guardrails/Safety Cables:
  - a. Install 2x2 angles on \_\_\_\_ centers with welded washers for the safety cables at the bent plate/Slab edge. For 2<sup>nd</sup> floor and penthouse(Roof is not included)
  - b. Install washers on columns for safety cables. Remove washers at the proper time per phase.
  - c. Furnish and install cables for safety handrails(1/4" cables)
  - d. Plan on 2 landing per floor for materials deliveries.
  - e. Furnish and install temporary handrail at stairs.
  - f. Include coordinated removal of temporary rails with the masonry/Steel stud installation by phase.
  - g. Maintain safety cables while BP 5 is mobilized.
- 30. Protect the existing building, new structure and site from damage during contractor's installations.
- 31. All other work as outlined in the Metals specification section, associated sections and specifications and included in the contract documents included.
- 32. Include any permits, as-builts by phase and testing as necessary and required.
- 33. Provide the required equipment/cranes for the installation of this package.
- 34. Provide traffic control for steel deliveries by phase.
- 35. Provide BIM coordination for this BP per BIM Execution Plan 01 31 13
- 36. Protect existing asphalt during deliveries.
- 37. Furnish and install folding partition supports.
- 38. Allowance to be included as part of the cost of this BP:
  - a. General Allowance \$50,000.00

### **ADDENDUM added line items:**

- 39.Pit ladder detail 5/A428 item 142400 furnish and install
- 40. Per detail 13/S401 paint all subgrade steel with two coats of asphaltic paint.
- 41. Per detail 14/S403 provide and install plates, angles and fastners at masonry walls.(Layout by BP 4)

ROOFING BP 7 ADDENDUM 1

Attachment #1 – ADDENDUM 2

### **General Subcontract Scope**

1. Provide all layouts included in this agreement. Wurster Construction will provide control lines and a benchmark

- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material, including that material supplied by material sub-subcontractors via tailgate delivery at the project site by phase.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 10 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.

- 21. There will be at least four punchlists including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list per phase.
- 22. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with it's sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to its work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 25. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses, and hard soled work boots are required on the project at all times.
- 27. All material must be stored according to manufacturer's requirements.
- 28. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include the following items(but not limited to these items) associated with the Roofing work or reasonably inferable to complete the Roofing scope:

Roofing BP 7 ADDENDUM 1

- 1. Specification Section 07 54 19 Fully Adhered PVC Roofing ADDENDUM 2
- 2. Specification Section 07 54 20 Induction Welded Polyvinyl-Chloride(PVC) Roofing
- 3. Specification Section 07 62 00 Sheet Metal Flashing and Trim
- 4. Specification Section 07 71 00 Roof Specialties
- 5. Specification Section 07 72 00 Roof Accessories
- 6. Installation per PHASE.
- 7. Roof expansions per drawing
- 8. Roof Sheathing including visqueen and nailbase
- Demolition of existing roofing called out on AD 203 Note 22 including the removal of demolished materials off site. Coordinate the removal of the roof to protect the areas below the roof when exposed. Provide necessary protection for areas below.
- 10. Flash parapet walls, curbs, penetrations, drains, skylights, roof hatch-coordinate with the BP 4 and BP 7A
- 11. Aluminum copings, fascia, gutters, downspouts, counterflashing
- 12. Provide and install roof hatches
- 13. Coordination with Electrical, Plumbing, Kitchen supplier and HVAC trades for roof penetrations. This contractor will flash and or seal roof curbs/penetrations supplied by other trades after the roofing has been installed per phase.
- 14. Included is the cleaning and hoisting of waste materials from roofing operations to the project dumpsters.
- 15. Include all lifting / hoisting of own materials
- 16. Complete transition from new roofs to existing
- 17. All sheet flashing, trim, adhesives, sealants, termination bars, fasteners, scuppers, roof expansion joints, splash blocks, and misc. accessories.
- 18. Installation of the Acoustic batts in Acoustic deck 4/S404(Supplied by BP 5)
- 19. Walkway roof pavers
- 20. Patching of existing roof where Owner coordinated items are removed by phase.

CSO

- 21. Scheduling Manufacturer's final roof inspection and forward report to Wurster Construction.
- 22. Protect the existing building, new structure and site from damage during contractor's installations.
- 23. Safety per OSHA for the roofing work. This includes but is not limited to safety rails, leading edge warning devices and trained watchmen if required.
- 24. Include any permits, as-builts, and testing as necessary and required.
- 25. Warranty per contract documents
- 26. Temporary protection of weather and safety in included in this scope.

### **ADDENDUM 1 added line items:**

- 27. Allowance- to be included in the contract amount \$75,000.00
- 28. Furnish and install down spouts and splash blocks
- 29. Cut the metal deck at location provided by BP 11 for kitchen equipment(Exhaust Fans curbs).

### **ADDENDUM 2 added line items:**

METAL PANELS BP 7A ADDENDUM 1

Attachment #1 – ADDENDUM 2

### **General Subcontract Scope**

1. Provide all layouts included in this agreement. Wurster Construction will provide control lines and a benchmark

- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material, including that material supplied by material sub-subcontractors via tailgate delivery at the project site per phase.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 10 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.

- 21. There will be at least four punchlists per phase including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.
- 22. Should it be determined necessary by Wurster Construction, the subcontractor agrees to payment via a joint check agreement with its sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to it's work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 25. This subcontractor will be responsible for daily road / parking lot clean up for debris tracked into adjacent areas by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses, and hard soled work boots are required on the project at all times.
- 27. All material must be stored according to manufacturer's requirements.
- 28. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include the below items(But not limited to these items) associated with the Metal Panel work or reasonably inferable to complete the Metal Panel scope:

Metal Panels BP 7A ADDENDUM 1

- 1. Specification Section 07 42 43 Metal Composite Material Wall Panels ADDENDUM 2
- 2. Specification Section 07 42 53 Metal Wall and Soffit Panels
- 3. Required access panels in soffits for mechanical and electrical access.
- Flashing and accessories for metal panels to adjacent materials. Example (typical) details 7 & 9 on A415 item 4
   20 00F
- 5. Remove excess materials from site after use
- 6. Protect the existing building, new structure and site from damage during contractor's installations.
- 7. Include any permits and as-builts per phase.
- 8. Required hoisting and equipment to install the Metal Panels/Soffits per phase.
- 9. Phasing per the project schedule and delivery of material per phase.

### **ADDENDUM 1 added line items:**

10. Furnish and include the column wraps detail 8/A441 and canopy soffit details 1 & 2/A410.

### **ALUMINUM & GLAZING BP 8**

ADDENDUM 1 – no change

Attachment #1 – ADDENDUM 2

### **General Subcontract Scope**

- 1. Provide all layouts included in this agreement. Wurster Construction will provide control lines and a benchmark
- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all equipment and hand tools as required for the completion of their work.
- 5. Receive all material, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 10 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.

- 21. There will be at least four punchlists including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.
- 22. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with its sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to its work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 25. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats and hard soled work boots are required on the project at all times. Eye protection must be worn when required under the OSHA standard.
- 27. All material must be stored according to manufacturer's requirements.
- 28. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include the below items(but not limited to these items) associated with the Aluminum & Glazing work or reasonably inferable to complete the Aluminum & Glazing scope:

### **Aluminum & Glazing BP 8**

**ADDENDUM 1- No Change** 

- 1. Specification Section 08 41 13 Aluminum-Framed Entrances and Storefronts ADDENDUM 2
- 2. Specification Section 07 92 00 Joint Sealants(For Aluminum BP Scope)
- 3. Specification section 08 80 00 Glazing
- 4. Specification Section 08 88 53 Security Glazing
- Delivery and Installation by Phase
- 6. Opening Sizes to be verified prior to fabrication
- 7. Provide and install specified Bullet Resistant Glass
- 8. Aluminum Storefront doors & Hardware per plans and specs(Excludes Cores)
- 9. Aluminum Storefront windows per plans and specs, including flashing of windows(head and sill).
- 10. Borrowed Lites including in Wood and HM Doors
- 11. All exterior perimeter caulking of windows and storefront.
- 12. Furnish and install the flashing at foundations and storefront.
- 13. Demolition of windows shown on AD201D, AD201E, AD202 and AD203 item 8 per phase.
- 14. Included is furnishing and installation of the automatic doors and operators and coordination with the Owners security vendor.
- 15. Installation of hardware of aluminum entrances per phase.
- 16. Contractor is to protect the existing building and site from damage during removal of debris.
- 17. Contractor is to provide fall protection, per OSHA standards
- 18. Cleanup to be daily to the project dumpsters

### **DOORS & HARDWARE BP 8A**

ADDENDUM 1 – no change

Attachment #1 – ADDENDUM 2

### **General Subcontract Scope**

1. Provide all layouts included in this agreement. Wurster Construction will provide control lines and a benchmark

- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, equipment, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material, including that material supplied by material sub-subcontractors via tailgate delivery at the project site by phase.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 15 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Specifically soil and concrete testing. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.

- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.
- 21. There will be at least four punchlists per phase including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.
- 22. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with it's sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to it's work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work
- 25. This subcontractor will be responsible for daily road / parking lot clean up for debris tracked into adjacent streets by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses and hard soled work boots are required on the project at all times.
- 27. All material must be stored according to manufacturer's requirements.

Specific Scope Items – Include the below items(But not limited to these items) associated with the Doors & Hardware work or reasonably inferable to complete the Doors & Hardware scope:

### **Doors & Hardware BP 8A**

**ADDENDUM 1-no change** 

1. Specification Section 08 11 13 Hollow Metal Doors & Frames

**ADDENDUM 2** 

- 2. Specification Section 08 14 19 Flush Wood Doors
- 3. Specification Section 08 71 00 Door Hardware
- 4. Specification Section 08 71 00a Door Hardware Index
- 5. Furnish door frames and borrow light frames per phase. Deliver the frames to the floor where they will be installed. BP 9 will install the frames.
- 6. Required hoisting of materials to the floor where they will be installed.
- 7. Reference drawing A501 & A502 for the door and frame schedule.
- 8. Cleaning to be completed on a daily basis. Removal of all packaging to the dumpster on site.
- 9.BP 8A will supply the cores for the Aluminum Hardware
- 10. All hardware to be installed on the door slabs in the vendors shop prior to delivery. Verify proper hardware and deliver by phase.
- 11. Installation of the doors in frames installed by BP 9. Removal of any packing material to the on site dumpsters-daily. BP 1 will receive, hoist and install all frames, wood doors and hollow metal doors. BP 8A will coordinate the deliveries by phase for these materials.
- 12. Allowances:
  - a. General Allowance-Include \$50,000

Metal Studs, Drywall, Insulation and Acoustical Ceilings BP 9

**ADDENDUM 1** 

Attachment #1 – ADDENDUM 2

### **General Subcontract Scope**

- 1. Provide all layouts included in this agreement.
- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 10 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.

- 21. There will be at least four punchlists including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.
- 22. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with its sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to its work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 25. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses and hard soled work boots are required on the project at all times. All material must be stored according to manufacturer's requirements.
- 27. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include the below items(but not limited to these items)associated with the Metal Studs, Drywall, Insulation and Acoustical Ceilings work or reasonably inferable to complete the Metal Studs, Drywall, Insulation & Acoustical Ceilings scope:

Metal Studs, Drywall, Insulation and Acoustical Ceilings BP 9

**ADDENDUM 1** 

### **Specification Section 05 40 00 Cold-Formed Metal Framing**

**ADDENDUM 2** 

- 1. Specification Section 06 16 43 Glass-Mat Gypsum Wall Sheathing
- 2. Specification Section 07 27 26 Fluid-applied Membrane Air Barriers
- 3. Specification Section 09 22 16 Non-Structural Metal Framing
- 4. Specification Section 09 29 00 Gypsum Board
- Specification Section 09 51 13 Acoustical Panel Ceilings
   Specification Section 09 77 23 Fabric-Wrapped Panels
   Specification Section 09 84 33 Sound Absorbing Wall Units
- 6. Interior framing systems including furring
- 7. Interior gypsum board, trim, and joint treatment
- 8. Acoustical ceiling grid complete and pads
- 9. Install access panels in drywall supplied by other trades.
- 10. Wall layout from WCCI supplied control
- 11. Framing for ceiling of canopy.
- 12. Exterior walls including Tyvek and fluid applied air barrier
- 13. Perimeter insulation with vapor barrier-including rigid insulation applied to sheathing or behind the metal panels and veneer masonry; 1&3/A401 or 1-4/A402(Typical) If rigid insulation is attached to metal Studs/Sheathing it is in this BP 9.
- 14. Clean-up and removal of own materials to dumpster on a daily basis.
- 15. Protect the existing building, new structure and site from damage during contractor's installations.
- 16. Install the metal door frames and borrow light frames(Supplied by BP #8a and delivered to the floor where located). Hollow Metal Door Frames and borrow lite frames will be installed by BP 1.
- 17. Include any permits and as-builts per phase.
- 18. Labor for Exterior Trim, Siding, Windows, Soffit Trim

# $\begin{tabular}{ll} \textbf{Hamilton Southeastern School Fishers Elementary} \\ \textbf{CSO} \end{tabular}$

- 19. Materials to be delivered to the site per phase.
- 20. Daily cleanup to project dumpsters
- 21. Allowance to be included in this BP contract amount:
  - a. General Allowance \$75,000.00

### **ADDENDUM 1 added line items:**

22. Furnish and install the ceiling clouds dtl 1/A425 and called out on CC1/CC2 on A900. Provide and install AXIUM @ ceilings

### **ADDENDUM 2 added line items:**

23.

FLOORING & TILE BP 9A ADDENDUM 1

Attachment #1 – ADDENDUM 2

### **General Subcontract Scope**

- 1. Provide all layouts included in this agreement.
- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all equipment and hand tools as required for the completion of their work.
- 5. Receive all material by PHASE, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 10 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations & PHASES. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.

- 21. There will be at least four punchlists per PHASE including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.
- 22. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with its sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to its work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 25. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses and hard soled work boots are required on the project at all times.
- 27. All material must be stored according to manufacturer's requirements.
- 28. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include the below items(but not limited to these items) associated with the Flooring & Tile work or reasonably inferable to complete the Flooring & Tile scope:

### Flooring & Tile BP 9A

**ADDENDUM 1** 

1. Specification Section 09 30 00 Tiling

**ADDENDUM 2** 

- 2. Specification Section 09 64 00 Wood Flooring
- 3. Specification Section 09 65 13 Resilient Base and Accessories
- 4. Specification Section 09 65 19 Resilient Tile Flooring
- 5. Specification Section 09 65 23 Luxury Vinyl Tile Flooring
- 6. Specification Section 09 65 36 Static-Control Resilient Flooring
- 7. Specification Section 09 67 23 Resinous Flooring
- 8. Specification Section 09 67 66 Fluid- Applied Athletic Flooring
- 9. Specification Section 09 68 13 Tile Carpeting
- 10. Walk-off carpet tile
- 11. Ceramic Flooring
- 12. Wall Tile- This contractor will evaluate the wall surface prior to installing tile and accept the surface.
- 13. Include Floor Prep- Including glue removal in renovated areas. Subcontractor will evaluate floor prior to starting and accept the floor.
- 14. Minor floor patching including crack patching(Include 1000 LF)
- 15. If temporary lighting is not sufficient for a quality installation this contractor will supply the required lighting.
- 16. Construction cleaning
- 17. Metal Edge Strips / Transitions
- 18. Protection of tile flooring when complete
- 19. Testing of the concrete per phase to meet moisture requirements of glue/flooring materials.
- 20. Crack isolation membrane
- 21. Multiple mobilizations to meet the project schedule phases.
- 22. Furnish and install per phase the rubber treads and risers
- 23. Furnish and install per phase the rubber tile flooring
- 24. Furnish and install per phase the Poured Urethane Flooring

- 25. Furnish and Install per phase the Solid wood planking
- 26. Furnish and install per phase Epoxy Flooring and Base. Any required air moving equipment to disperse the odor. Install after hours?
- 27. Furnish and install per phase the Tile Flooring, Base and wall tile.
- 28. Allowance-To be included in this BP's contract amount:
  - a. General Allowance \$20,000

### **ADDENDUM 1 added line items:**

29.Including the striping of Gym floor per A910 30.Protection of the kitchen flooring after installation.

Painting, Wallcovering & Staining BP 9B

**ADDENDUM 1** 

Attachment #1 – ADDENDUM 2

### **General Subcontract Scope**

- 1. Provide all layouts included in this agreement. Wurster Construction will provide control lines and a benchmark
- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all equipment and hand tools as required for the completion of their work.
- 5. Receive all material, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 15 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner per phase.
- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.

- 21. There will be at least four punchlists including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.
- 22. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with it's sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to its work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 25. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats and hard soled work boots are required on the project at all times. Eye protection must be worn when required under the OSHA standard.
- 27. All material must be stored according to manufacturer's requirements.
- 28. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include items(but not limited to these items) associated with the Painting/Wall Covering and Staining work or reasonably inferable to complete the Painting/Wall Covering and Staining scope:

### Painting, Wall Covering and Staining BP 9B

**ADDENDUM 1** 

- 1. Specification Section 09 72 15 Digital Wall Coverings
- 2. Specification Section 09 91 23 Interior Painting
- 3. Specification Section 09 93 00 Staining and Transparent Finishing
- 4. Specification Section 09 96 00 High-performance Coatings
- 5. Specification Section 07 92 00 Joint Sealants for door frames
- 6. Evaluate and accept surfaces prior to starting this scope of work.
- 7. Painting interior walls and ceilings per plans
- 8. Paint doors, paint and caulk door frames- (Caulking of Door frames excluded in BP 9B to be provided by BP1)
- 9. Paint exterior metals
- 10. Paint interior stair railings and guardrails
- 11. Paint exposed structure per plans
- 12. Multiple mobilizations to meet the project schedule
- 13. Contractor is to protect the existing building and site from damage during removal of debris.
- 14. Contractor is to provide fall protection, per OSHA standards
- 15. Provide lifts and equipment to complete this scope of work.

**Kitchen Equipment BP#11** 

ADDENDUM 1

Attachment #1 – ADDENDUM 2

### **General Subcontract Scope**

- 1. Provide all layouts included in this agreement.
- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 10 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 19. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.
- 20. There will be at least four punchlists including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.

- 21. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with its sub-subcontractors and material suppliers.
- 22. This subcontractor shall be responsible for general conditions as it relates to its work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 23. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 24. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 25. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses and hard soled work boots are required on the project at all times.
- 26. All material must be stored according to manufacturer's requirements.
- 27. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include the below items(but not limited to these items) associated with the Kitchen Equipment work or reasonably inferable to complete the Kitchen Equipment scope:

### **KITCHEN EQUIPMENT BP 11**

**ADDENDUM 1** 

- Specification Section 11 40 00 Food Service Equipment
- ADDENDUM 2
- 2. Furnish and install the roof curbs for the supplied equipment. Coordinate the installation with the roofing contractor.
- 3. Furnish and install freezer panels to close off the space between the freezer/cooler to walls and ceilings.
- 4. Verification the electrical to supplied equipment matches the power supplied on the electrical drawings.
- 5. Provide on site trips to coordinate and verify the installation of Plumbing and electrical in wall rough-ins prior to the drywall installation.
- 6. Provide startup of the kitchen hood and dishwasher by manufacturer representatives. Coordinate with Plumbing, HVAC and Fire Protection contractors.
- 7. This BP to hang the new hoods.
- 8. Provide the roof curbs for exhaust fans, freezer/cooler condensers, and other equipment to be located on the roof. Provide these curbs and locate for the roofer by 5.1.25.
- 9. Coordinate and layout for the Freezer/Cooler recess with the concrete contractor.
- 10. All other work as outlined in the contract documents included.
- 11. Include any permits and as-builts.
- 12. Caulking/sealants at SS backsplashes to the tile walls
- 13. Delivery of materials to meet the project schedule.
- 14. Demolition and removal of the existing kitchen equipment.

### ADDENDUM 1 added line items:

15. Protection of the kitchen equipment after installation till acceptance.

Fire Suppression BP 21

ADDENDUM 1

Attachment #1 – ADDENDUM 2

### **General Subcontract Scope**

- 1. Provide all layouts included in this agreement.
- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material by PHASE, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 10 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.

- 21. There will be at least four punchlists including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.
- 22. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with it's sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to it's work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 25. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, eye protection and hard soled work boots are required on the project at all times.
- 27. All material must be stored according to manufacturer's requirements.
- 28. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include the below items(but not limited to these items)associated with the Fire Suppression work or reasonably inferable to complete the fire suppression scope:

Fire Suppression BP 21

**ADDENDUM 1** 

- Specification Section 02 41 11 Utility Demolition Specific to Fire Suppression
- **ADDENDUM 2**

- 2. Division 20 Specific to Fire Suppression
- 3. Division 21- Fire suppression

### Specification Section 07 84 13 Penetration Firestopping-for BP 21

- 4. Furnish and Install the Halon System for the Kitchen Hood installation. Included testing with the Fire Marshall. Includes multiple test of the system and includes the CO2 canisters.
- 5. Demolition of the existing Halon system from the existing kitchen hood.
- 6. Drain the existing system if required to meet scheduled phasing.
- 7. Interior automatic fire sprinkler system by phase. Keep the existing building in operation as the demolition and new phases are constructed.
- 8. Provide and install fire department connection
- 9. Testing on lines installed
- 10. Start at flange inside mechanical room
- 11. Backflow assembly
- 12. Riser with valve, drain, flow switch, test valve, gauge
- 13. Exposed uprights off wet system in Gathering space
- 14. New chrome semi-recessed pendent sprinklers for proper coverage Refer to 21 10 00
- 15. Put new and existing lines back in service
- 16. Protect the existing building, new structure and site from damage during contractor's installations.
- 17. Include any permits, as-builts per phase, and testing as necessary and required.
- 18. Preparing of the existing system for Demolition and maintaining the existing system while the new construction is underway.
- 19. BIM coordination of this BP per BIM Execution Plan 01 31 13
- 20. Design of the Fire Protection System to meet the requirements on FP201 & FP202.
- 21. Firestopping of FP penetrations thru rated assemblies.

- 22. Provide the double detector check valve at the 8" incoming line. Start 12" above the floor for the BP.
- 23. Furnish and install housekeeping pads for this BP.
- 24. Cutting and patching required for this BP.
- 25. Allowance:
  - a. Include an allowance of \$35,000 for unforeseen issues.

## **ADDENDUM 1 added line items:**

26. Provide and install the fire suppression pull station on K500 drawings.

27.Center heads sprinkler heads in ceiling tiles

PLUMBING BP 22 ADDENDUM 1

## Attachment #1 – Scope of Work

**ADDENDUM 2** 

## **General Subcontract Scope**

- 1. Provide all layouts included in this agreement.
- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material per phase, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 10 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.

- 21. There will be at least four punchlists including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.
- 22. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with its sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to its work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 25. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses, and hard soled work boots are required on the project at all times.
- 27. All material must be stored according to manufacturer's requirements.
- 28. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items - Include items(but not limited to these items) associated with the plumbing work or reasonably inferable to complete the Plumbing scope:

**Plumbing BP 22 ADDENDUM 1** 

1. Division 20- Specific to Plumbing

**ADDENDUM 2** 

- 2. Division 22-Plumbing
  - Specification Section 07 84 13 Penetration Firestopping- for BP 22 Specification Section 07 92 00 Joint Sealants – for BP 22
- 3. Disconnecting the existing utilities by phase for plumbing items that are to be demo'd by others.
- 4. Demolition and demolition coordination C101 Note 4 & 21 by BP 22.
- 5. Provide 2 sources of temporary water from the existing building for use during construction.
- 6. Proper disposal and removal of items that can't be put in the dumpster
- 7. Kitchen slab concrete sawing, excavation and removal of concrete and excavated materials off site. Backfill per project specifications and pour concrete back to match adjacent slabs and a minimum of 4" of thickness.(Reference PD 360)
- 8. Draining and removal of the existing Grease interceptor(Reference PD 360)- Furnish and install the new grease interceptor per plans/Specifications.
- 9. Grouting of abandon piping in place as noted(Reference PD 360 Note 2)
- 10. Engineering and layout for plumbing trenches and underslab plumbing.
- 11. Plumbing and utilities to 5' outside of building and final connection. Coordinate with BP #1.
- 12. Provide and locate plumbing sleeves thru foundations. Coordinate the install with BP #1.
- 13. Installation of new plumbing systems complete per the contract documents and phase. Maintain existing systems of occupied areas while adjacent areas are being demolished or constructed.
- 14. Deliveries by phase and required storage off site of materials needed for future phases.
- 15. Plumbing roof curbs and supports
- 16. Excavation for underslab plumbing and backfill by phase. Removal of all excavated materials off site.
- 17. Furnish and install the housekeeping pads for this BP
- 18. Cutting and patching for this BP
- 19. Required access doors for plumbing items.

- 20. Plumbing insulation
- 21. Roof drains and cleanouts
- 22. Gas piping by phase
- 23. Chilled water and hot water supply and return by phase.
- 24. Refrigerant piping by phase
- 25. Personnel lifts as necessary for installation of this BP.
- 26. Furnish and install the Plumbing fixtures
- 27. Caulking of plumbing fixtures to wall
- 28. Firestopping by phase for plumbing penetrations in the rated walls.
- 29. Cutting of metal roof deck for metal roof drain pans. Installation of the roof pans and roof drains and supports.

  Reference A450 and include the 20ga sheet metal sump and the foam cell wrap
- 30. Core drilling
- 31. Clean-up and removal of BP 22 materials to dumpster
- 32. Protect the existing building, new structure and site from damage during contractor's installations.
- 33. All other work as outlined in the contract documents included.
- 34. Include any permits, as-builts, tap fees by phase and testing as necessary and required.
- 35. Required public and private locates prior to excavation.
- 36. Provide BIM coordination of the Plumbing installations per BIM Execution Plan 01 31 13
- 37. Allowance to be included in the Scope/Contract amount:
  - a. Plumbing Allowance \$150,000.00

### **ADDENDUM 1 added line items:**

- 38. Note 7 on AD202, AD202D, AD203, Ad201 & AD201E
- 39. Furnish and install joint sealants for plumbing fixtures.
- 40. Detail 2/A450 provide & install the roof penetration housing.
- 41. Review the Kitchen equipment drawings K200 and provide floor sinks at required drains.
- 42. Review the Kitchen equipment drawing for plumbing and gas details.
- 43. Provide protection of the kitchen flooring during plumbing hookup of the equipment.
- 44. Furnish and install the roof curbs/boots for the plumbing and gas penetrations

HVAC BP 23 ADDENDUM 1

## Attachment #1 – Scope of Work

**ADDENDUM 2** 

## **General Subcontract Scope**

- 1. Provide all layouts included in this agreement.
- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material per phase, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 10 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.

- 21. There will be at least four punchlists including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.
- 22. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with its sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to its work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 25. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses, and hard soled work boots are required on the project at all times.
- 27. All material must be stored according to manufacturer's requirements.
- 28. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include items(bot not limited to these items) associated with the Mechanical work or reasonably inferable to complete this Mechanical scope:

## Mechanical, HVAC, Ductwork & Temperature Controls BP 23

**ADDENDUM 1** 

1. Division 20- Specific to HVAC

**ADDENDUM 2** 

- Division 23- Heating, Ventilating, And Air Conditioning(HVAC)
   Specification Section 07 84 13 Penetration Firestopping-For BP 23
- 3. Disconnecting the existing utilities by phase for HVAC items that are to be demo'd by others.
- 4. Proper disposal and removal of items that can't be put in the dumpster
- 5. Installation of new mechanical systems complete per the contract documents and phase. Maintain existing systems of occupied areas while adjacent areas are being demolished or constructed.
- 6. Deliveries by phase and required storage off site of materials needed for future phases.
- 7. AHUs, FTR, chiller, boiler, FCUs and temperature controls by phase. Ensure existing building services remain intact until demolition of the structure so staff and students can use the existing structures.
- 8. Mechanical roof curbs and supports
- 9. Required access doors and drywall coordination for their installation of dampers, filter and maintenance access.
- 10. HVAC insulation-Ductwork & Hydronic Piping
- 11. Chilled water and hot water supply and return
- 12. Refrigerant piping by Phase
- 13. Personnel and equipment lifts as necessary
- 14. Installation of the Kitchen Equipment Hood including coordination with the supplier on startup and testing by the Fire Marshall.(Kitchen Equipment BP to hang the hood)
- 15. Furnish and install louvers-Including Architectural louvers.
- 16. Firestopping by phase for HVAC.
- 17. Equipment start-up and testing by phase
- 18. Cutting of metal roof deck for curbs.
- 19. Air and water balance
- 20. Core drilling
- 21. Clean-up and removal of BP 23 materials to dumpster

CSO

- 22. Protect the existing building, new structure and site from damage during contractor's installations.
- 23. All other work as outlined in the contract documents included.
- 24. Furnish and install the housekeeping pads & hydronic pipe supports(details G & H/M411) for this BP scope.
- 25. Cutting and patching for this scope.
- 26. Firesafing for this BP.
- 27. Include any permits, as-builts, tap fees by phase and testing as necessary and required.
- 28. Required public and private locates prior to excavation.
- 29. Provide BIM coordination of the Mechanical and HVAC Scope per BIM Execution Plan 01 31 13
- 30. Allowance to be included in this Scope/Contract amount:
  - a. Mechanical Allowance \$300,000

### **ADDENDUM 1 added line items**

- 31. Provide and install kitchen hood ductwork per K500 and coordinate the hood install by BP 11
- 32. Protect kitchen flooring during hookup of HVAC.
- 33. Temporary use of the HVAC during construction including temporary filters and extended warranty is included in BP 23.

ELECTRICAL BP 26 ADDENDUM 1

Attachment #1 – ADDENDUM 2

## **General Subcontract Scope**

- 1. Provide all layouts included in this agreement.
- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material per phase, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 10 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.

- 21. There will be at least four punchlists including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.
- 22. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with it's sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to its work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 25. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses, and hard soled work boots are required on the project at all times.
- 27. All material must be stored according to manufacturer's requirements.
- 28. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – include the below items (but not limited to these items) associated with the electrical work or reasonably inferable to complete the electrical scope:

ELECTRICAL BP 26 ADDENDUM 1

1. Division 26- Electrical

**ADDENDUM 2** 

- 2. Division 27- Communications
- 3. Division 28- Electronic Safety and Security
  - Specification Section 07 84 13 Penetration Firestopping-(For BP 26 items)
- 4. Demolition and Demo coordination as noted on C101 and C102
  - a. Notes: 18, 19, 29 & 32
- 5. Demolition and removal from the site the lighting as shown on AD201D, AD201E, AD202, AD203 Note 17 & 31
- 6. Coordination of the electrical for the Food Service Equipment. BP 26 to verify Electrical drawings and K301 drawing are verified with the Equipment requirements.
- 7. Disconnecting the existing utilities that are to be demo'd by others by phase. Maintain electrical in existing school area while adjacent areas are being demolished.
- 8. Coordinate the temporary power and provide the materials and labor to extend the power from the existing facility.
- 9. Provide the labor and material to provide electrical outlets w/in 75' of any location in the new building. Provide a pedestal with 10 outlets per location.
- 10. Provide and locate sleeves thru foundations for electrical by phase.
- 11. Demo of existing electrical devices, panels, light fixtures per phase and removal from the site of Bulbs and ballast.
- 12. Switchgear and panelboards per phase.
- 13. Excavation for site and building underground and removal from the site of excavated spoils.
- 14. Sawing and removal of concrete for items noted in the Kitchen slab. Spoils and demolished concrete to be removed from the site and fill per specifications. BP 26 to patch electrical trenches with concrete to match the existing flooring thickness.
- 15. Coordination and maintain power per phase. Maintain existing systems of occupied areas while adjacent areas are demolished or constructed.

CSO

- 16. Connect temporary power stands per IOSHA.
- 17. Provide electrical service to the jobsite trailers, One -WCCI; 1-BP-1; 1-BP 22; BP 23 and 1-BP-26.
- 18. Install temporary lighting per phase
- 19. Site lighting including light pole bases-Excavation, concrete, reinforcing and finishing. Removal of spoils off site.
- 20. Provide the fuel for the emergency generator testing and then to fill prior to turnover to the Owner.
- 21. Secondary service to building
- 22. Firestopping at rated partitions for the electrical penetrations.
- 23. Removal of spoils from this BP 's excavation.
- 24. Telephone service conduits and tele/cable conduits
- 25. Power to HVAC equipment
- 26. Power and conduits for Theatrical work
- 27. Installation of new electrical, communications (raceway for telephone & date), and fire alarm systems complete per the contract documents
- 28. Equipment start-up and testing by phase
- 29. Clean-up and removal of own materials to dumpster
- 30. Protect the existing building, new structure and site from damage during contractor's installations.
- 31. All other work as outlined in the contract documents included.
- 32. Include any permits, as-builts by phase, and testing as necessary and required.
- 33. Provide locates public and private prior to excavations by phase.
- 34. Hookup of Kitchen Equipment
  - a. Analize Kitchen equipment schedule and power to equipment
- 35. BIM coordination of the electrical per BIM Execution Plan 01 31 13
- 36. Allowance:
  - a. Electrical Allowance \$150,000

## **ADDENDUM 1- added line items**

- 37. Equipment Schedule A900-- Install PS1, PE4, PS4 & WP1 and furnish and install PS5 on A900
- 38. Furnish Temporary power for masonry saws- 2 locations
- 39. Furnish and install the concrete and excavation for the flood lights detail E/E101
- 40. Furnish and install the concrete and excavation at the equipment support stand detail F/E101
- 41. Fire Alarm by phase including testing.

### **EARTHWORK & UTILITIES BP #31**

ADDENDUM 1

Attachment #1 – ADDENDUM 2

## **General Subcontract Scope**

1. Provide all layouts included in this agreement. Wurster Construction will provide control lines and a benchmark

- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 21 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.

- 21. There will be at least four punchlists including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.
- 22. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with it's sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to it's work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 25. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses and hard soled work boots are required on the project at all times.
- 27. All material must be stored according to manufacturer's requirements.
- 28. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include items(but not limited to these items) associated with the Earthwork or reasonably inferable to complete the Earthwork scope.

### **EARTHWORK & UTILITIES BP #31**

**ADDENDUM 1** 

1. Specification Section 02 41 11 Utility Demolition

**ADDENDUM 2** 

- 2. Division 31- Earthwork
- 3. Division 33- Site Utilities
- 4. Demolition of existing utilities as shown on C101 & C102 including notes:
  - a. Notes 1-34
  - b. Note 5&6 by BP 2
  - c. Note 16, 29, 30, 31 & 32 by BP 1-(Notes 30 & 31 will be by BP 31- C-102 Note 32 is mislabeled and should be Note 31)
  - d. Note 18, 19 & 29 by BP 26
  - e. Note 4 & 21 by BP 22
- 5. Provide engineering and control for utilities and building pads from control provided by Wurster Construction
- 6. Provide all items noted on C401 & C402 for the Stormwater Pollution Prevention Plan and maintain thru-out the construction. Then remove at the conclusion of the project.
- 7. Rough grading and excavation
- 8. Include the excavation to subgrade +/- .10 foot for sidewalks; paving, site concrete and building pad.
- 9. Spoil haul off- any material above the needed materials to balance the site generated by this contractor will be hauled off site
- 10. Backfill
- 11. Furnish and Install the Site Water
- 12. Furnish and Install the Site water line for Fire Protection to inside the building and 12" above SOG.
- 13. All sewer/water lines(Except Fire Protection) to 5' outside the building and coordinate final connection with the plumber(BP #22)
- 14. Storm piping including Storm interceptor
- 15. Utility Relocates public & Private by PHASE
- 16. Tree, shrub, stump removal & Protection as called out on L010

- CSO
  - 17. Remove existing pavement, curbs, and sidewalks per PHASE
  - 18. Surface Dewatering for this BP.
  - 19. Exterior wall underdrain. Note 11 on S402 including geotextile fabric and #5 stone filtering material.
  - 20. Flushing and testing of lines
  - 21. Cut and repair of street(Including asphalt-concrete) / sidewalk
  - 22. Calling in for utility locates public and private by phase
  - 23. Furnish and Install the playground underdrains 2,5 & 6 on L602
  - 24. Dust control for the site while this BP is mobilized.
  - 25. Protect the existing building, new structure and site from damage during contractor's installations.
  - **26.** Include and maintain all erosion control measures by PHASE. Removal of all erosion control items after completion by PHASE and necessary grading of the area. **Temporary seeding and maintenance of erosion control.**
  - 27. Include any permits and as-builts as necessary and required by phase.
  - 28. Replacement of topsoil in landscape areas per the depths indicated on the contract documents by phase.
  - 29. Daily cleaning of property and adjoining roads during earthwork and concrete operations.
  - 30. Asphalt paving at utility trenches to meet existing thickness/surface types(City Streets cuts to meet Fishers specifications).
  - 31. Temporary traffic control for this contractor work.
  - 32. As-builts are to provide 3 dimensional control for all utilities and manholes.
  - 33. BIM coordination on the utilities and earthwork scope with other trades.
  - 34. Allowance to be included in the BP:
    - a. General allowance \$120,000

### **ADDENDUM 2 added line items:**

35. Reference PHASING PLANS for added scope in the BP 31.

LANDSCAPE BP 32 ADDENDUM 1

Attachment #1 – ADDENDUM 2

## **General Subcontract Scope**

1. Provide all layouts included in this agreement. Wurster Construction will provide control lines and a benchmark

- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 21 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. Furnish and install all work in accordance with the life safety plans and in accordance with hourly fire ratings as required.
- 19. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 20. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.

- 21. There will be at least four punchlists including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.
- 22. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with it's sub-subcontractors and material suppliers.
- 23. This subcontractor shall be responsible for general conditions as it relates to it's work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 24. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 25. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 26. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses and hard soled work boots are required on the project at all times.
- 27. All material must be stored according to manufacturer's requirements.
- 28. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include the below items(but not limited to these items) associated with the Landscape work or reasonably inferable to complete the Landscaping scope:

LANDSCAPE BP 32 ADDENDUM 1

1. Specification Section 32 93 00 Turf and Grasses

**ADDENDUM 2** 

- 2. Specification Section 32 93 00 Plants
- 3. Included is C101 & C102 Note 26
- 4. Testing of soil prior to seeding is included
- 5. Included is lawn preparation, compaction relief, tilling, and finish grading/raking in preparation for the lawn areas.
- 6. Mulch as called out on the plans
- 7. Multiple trips to meet the project schedule & Phasing.
- 8. Fine grading of the site prior to seeding
- 9. Spoil haul off of spoils
- 10. Add a trip for grading and seeding after the silt fence is removed
- 11. Site Water/maintenance for plantings and lawns-till Project Final Substantial Completion
- 12. Calling in for utility locates-public and private per phase.
- 13. Replacement of topsoil in landscape areas per the depths indicated on the contract documents.
- 14. Cleaning of property and adjoining roads during Landscape work.
- 15. Relocation of noted trees to new location on site see L010.
- 16. Stone maintenance edge detail 5 on L410.
- 17. Include all notes 1-16 on L401 & L402
  - a. Including specifically tree protection of existing trees(Note 15)

PAVING & STONE BP 32A ADDENDUM 1

Attachment #1 – ADDENDUM 2

## **General Subcontract Scope**

- 1. Provide all layouts included in this agreement.
- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 10 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 19. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.
- 20. There will be at least four punchlists including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.

- 21. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with its sub-subcontractors and material suppliers.
- 22. This subcontractor shall be responsible for general conditions as it relates to its work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 23. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 24. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 25. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses and hard soled work boots are required on the project at all times.
- 26. All material must be stored according to manufacturer's requirements.
- 27. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items –Include items(But not limited to these items) associated with the Paving or reasonably inferable to complete the Paving scope.

### **PAVING & STONE BP 32A**

**ADDENDUM 1** 

- 1. Specification Section 32 11 23 Granular Base (for the BP 32A)
- **ADDENDUM 2**

- 2. Specification Section 32 12 16 Asphalt Paving
- 3. Specification Section 32 17 23 Paving Markings
- 4. Multiple mobilizations to meet the project phasing
- 5. Asphalt Paving per phase
- 6. Stone base per phase
- 7. Striping per phase
- 8. Handicap signs and parking bumpers per phase-Note detail CO3 on L101 & L102(dtl 8 on L601)
- 9. H/C symbols(6 on L601) and other painted items like cross walk marks.
- 10. Striping to include the basketball areas(Dtl 8 on L602) and the 4 square areas.
- 11. Traffic signage
- 12. Paving standards per the City of Fishers drawings
- 13. Overlay existing parking lot including milling as called out on the plans
- 14. Clean and apply asphalt tack coat
- 15. Surface coarse
- 16. Patch along curbs
- 17. Daily clean up
- 18. Contractor is to protect the existing building and site from damage during.
- 19. Traffic control during the stone and paving operations.
- 20. Multiple striping design installation on the North Parking
- 21. Site signage as noted on L202 notes S01-S06
- 22. Allowance to be included in the pricing of this BP
  - a. General Allowance \$100,000.00

## **ADDENDUM 2 added line items:**

23. Reference PHASDING PLANS for added scope for BP 32A

 $\begin{tabular}{ll} \textbf{Hamilton Southeastern School Fishers Elementary} \\ \textbf{CSO} \end{tabular}$ 

### **FENCING BP 32B**

**ADDENDUM 1-No Change** 

Attachment #1 – ADDENDUM 2

## **General Subcontract Scope**

- 1. Provide all layouts included in this agreement.
- 2. Appoint an on-site safety representative to attend regular site safety meetings held by Wurster Construction.
- 3. There will be no labor increase to the contract amount as a result of any labor rate increases through the course of the project.
- 4. This subcontractor shall provide all ladders, scaffolding, hoisting, and hand lifts as required for the completion of their work.
- 5. Receive all material, including that material supplied by material sub-subcontractors via tailgate delivery at the project site.
- 6. All material deliveries must be scheduled with the Wurster Construction project superintendent three working days in advance.
- 7. Perform clean-up on a daily "as you go" basis. Failure to perform adequate clean-up in compliance with the project superintendent will result in clean up being performed by Wurster Construction and back charged to this subcontractor.
- 8. Any and all taxes, excise, duties, Indiana Gross Sales Tax and assessments in any manner levied, assessed or imposed by any governmental or subdivision or agency having jurisdiction over the work included in this agreement (other than taxes on real property of the owner) shall be the sole responsibility and liability of this subcontractor.
- 9. Provide written warranties, operation and maintenance manuals, training orientations and demonstrations as required in the contract documents as applicable for all work contained in this agreement.
- 10. Furnish and install all work as described within this agreement in accordance with all codes and ordinances and secure all permits, bonds, guarantees as required from agencies having jurisdiction over the work.
- 11. Product literature and shop drawings shall be submitted in the quantities specified within 10 days of receipt of this contract.
- 12. It is the responsibility of this subcontractor to obtain project documents and specifications. Not obtaining all the documents is not cause for extended time or increased costs.
- 13. This subcontractor has reviewed the project schedule and agrees to complete its work within the durations. It is understood that Wurster Construction may schedule work before or after the calendar dates and that this adjustment does not change the allotted durations for activities on the schedule. All overtime or additional manpower necessary to maintain the project schedule will be performed at no additional cost. Any overtime or additional manpower incurred by other trades that is required to regain lost time due to negligence by this subcontractor will be back charged to this subcontractor.
- 14. Perform all tests and inspections as required. Forward all documentation to Wurster Construction.
- 15. Coordinate with other trades to protect existing facilities and prevent damage. If damage occurs, immediately notify the Wurster Construction superintendent.
- 16. Perform field measuring as required.
- 17. Furnish all mock-ups and samples as required per the project documents.
- 18. This subcontractor will perform its own quality control inspections throughout the installation phase of all work. This subcontractor will perform its own punchlist upon completion of the work and will advise the Wurster Construction superintendent when the punchlist is complete and ready for inspection by Wurster Construction, the architect and owner.
- 19. This agreement is not predicated on any specific number of mobilizations to the project. Several mobilizations may be required for phasing work, receipt of materials, adjusting, punch lists, etc.
- 20. There will be at least four punchlists including the subcontractor's punch list, Wurster Construction's punch list, and the architect's punch list and the owner' punch list.

- 21. Should it be determined necessary by Wurster Construction the subcontractor agrees to payment via a joint check agreement with its sub-subcontractors and material suppliers.
- 22. This subcontractor shall be responsible for general conditions as it relates to its work as described in division 1 of the specifications. By signature of this subcontract, the subcontractor warrants they have thoroughly reviewed the contract and contract documents.
- 23. The subcontractor is required to maintain full time supervision on site while their work is being performed (including any night or weekend work.) The subcontractor is also responsible to for maintaining control and supervision of lower tier vendors, subcontractors and suppliers. This person must be acceptable to Wurster Construction and have the authority to speak on behalf of the subcontractor's company for all aspects of the work.
- 24. This subcontractor will be responsible for daily road clean up for debris tracked into adjacent streets by his operations including sweeping.
- 25. All safety equipment for this scope of work, per OSHA standards, is by this subcontractor. Hard hats, safety glasses and hard soled work boots are required on the project at all times.
- 26. All material must be stored according to manufacturer's requirements.
- 27. Initial submission of Job Hazard Analysis and a bi-weekly update to this plan.

Specific Scope Items – Include the below items(but not limited to these items) associate with the Fencing work or reasonably inferable to complete the Fencing scope:

### **FENCING 32B**

## **ADDENDUM 1- No Change**

- 1. Specification Section 32 31 13 Barrier Gates
- **ADDENDUM 2**
- 2. Specification Section 32 31 19 Metal Gates
- 3. Furnish and install the new vehicular Swing Gates G04 on L101& L102
- 4. Furnish and Install the 6' chain-link, vinyl coated Black G02 on L101& L102
- 5. Furnish and Install the single swing gate 4'-0" opening G02 on L101 & L102
- 6. Furnish and Install the double lead swing gate, 8'-0" G03 on L101 & L102
- 7. Installation of new wood fence at the dumpster enclosure
- 8. New chain link fence per the contract documents and per the project phasing.
- 9. Utility locates public and private.
- 10. Multiple mobilizations to meet the project schedule.
- 11. Clean-up and removal of own materials to dumpster
- 12. Protect the existing building, new structure and site from damage during contractor's installations.
- 13. Include any permits and as-builts per phase.
- 14. Removal of any spoils for the jobsite.

### **ADDENDUM 2 added line items:**

15. Reference PHASEING Plans for BP 32B work.

# 00 4100 - BID FORMS ADDENDUM NO. 2

PROJECT:
Hamilton Southeastern Schools Fishers Elementary
11442 Lantern Rd.
Fishers, Indiana 46038
TO:
Wurster Construction
8463 Castlewood Drive
Indianapolis, Indiana 46250
SUBCONTRACTOR:
I have received and thoroughly reviewed the Bidding Documents for the above project and have examined the site. I have also received and reviewed all Addenda and have included their provision in my Bid. I submit the following Bid in respect to said Bidding Documents.  In submitting this Bid, I agree:  • To hold my bid open until 60 days after the date set for receipt of Bids.  • To enter into and execute a contract if awarded on the basis of this Bid, and to furnish a Performance & Payment Bond if requested. (Not Included in Base Bid)  • To accomplish the Work in accord with the Contract Documents.  • To complete the Work in accord with the Instructions to Bidders.  • On your company letterhead include a detailed scope of work and your bid amount per specification section.
The undersigned bidder, with a complete understanding of the bidding documents and the existing project site, shall complete the work for
SCOPE OF WORK:
Bid Package:
in full and complete accordance with the requirements of the bidding documents, for the lump sum BASE BID PRICE including allowances based on bid packages:
(\$)
Numerals
Dollars

Written Amount

## **COMBINATION BID PACKAGES**

f the subcontractor wishes to submit a price for multiple bid packages please continue to insert bid package numbers and costs below					
Bid Packages:					
•	cordance with the requiremer ances based on bid packages:	nts of the bidding documents, fo	or the lump sum <b>BASE BIC</b>		
\$	)				
Nui	merals				
		D	ollars		
	Written Amou	ınt			
ADDENDA					
Addenda have been in Addenda NoAddenda No	DatedDatedDated		resulting from these		
HOURLY RATES					
·	•	ve hourly labor rates for all posi uration of the project will an in	·		
osition	Rate	Position	Rate		

## ALTERNATE PROPOSALS

I will include the following alternates as specified substitutes for the additional or deductible costs listed required for a completed project.

Alternate No. 01: Performance & Payment Bond	
Add/Deduct Cost	
Add/Deduct Time	
Alternate No. 02: PVC Roofing	
Alternate No. 03: Boilers	
a. Alternate 03a: Fulton Endura 2000	
b. Alternate 03b: Lochinvar Crest FCB 200	00
c. Alternate 03c: Cleaver Brooks CE 2000	
Alternate No. 04: Air-Cooled Chiller	
a. Alternate 04a: York/JCI	
h Altamata Odhi Trana	
Alternate No. 05: Air Handling Units	
Alternate No. 06: Temperature Controls	
UNIT PRICES	
Unit Price No. 1:	
·	ed granular fill based on the geotechnical report. The unit cost the existing poor soils and installation of the new compacted fill. er Cubic Yard: \$
Unit Price No. 2:	
Replacement of poor soils with new lean (1,500 unit cost should include removal and disposal of	psi minimum) concrete based on the geotechnical report. The the existing poor soils and installation of the lean concrete. r Cubic Yard: \$
<u>Unit Price No. 3</u> : Import of #53 stone onsite. The compacted fill.  Compacted Fill - Cost Pe	ne unit cost should include trucking and installation of the new

-	<u>Unit Price No. 4</u> : Import on the Import of	of clean dirt for onsite	e use. The u	unit cost should includ	de trucking and installation of the
	•	ompacted Fill - Cost Pe HIS WORK	er Cubic Ya	rd: \$	
_					
1	will substantially complet	e the base bid project	t, ready foi	beneficial use by the	Owner, within
			_ (	) calendar days.	
V	Vritten Amount		Nume	rals	
11	N TESTIMONY WHEREOF,	THE BIDDER (AN INDI	VIDUAL) H	AS HEREUNTO SET HI	S HAND
Т	his	day of		2024.	
В	idder:				
	Signed			Printed	
	MONY WHEREOF, THE BID NT AND SECRETARY AND A	•	-	JSED THIS PROPOSAL	TO BE SIGNED BY ITS
This	day	of	, 2024.		
BY:	me of Corporation				
Na	me of Corporation				
	, Presid	ent			, Secretary
Printed			Printe	ed	
	, Presid	ent			, Secretary
Signed			Signe	d	
	MONY WHEREOF, THE BID PARTNER	DER (A PARTNERSHIP	) HAS CAU	SED THIS PROPOSAL 1	TO BE SIGNED BY EACH
This	day	of	, 2024.		
BY:					
Na	me of Partnership				
	, Partne	er	Signed		
Printed	<del>_</del>				
	, Partne	er			
00 4100-4 Bid Form					

/	
	, Partner
Signed	

END OF SECTION 00 4100

SITE LOGISTICS LEGEND

NOTES:

SITE FENCING

1. CONSTRUCTION ENTRANCE

CONSTRUCTION AREA

CONCRETE JERSEY BARRIERS WITH

FENCE ON TOP

FOR PHASE OF WORK

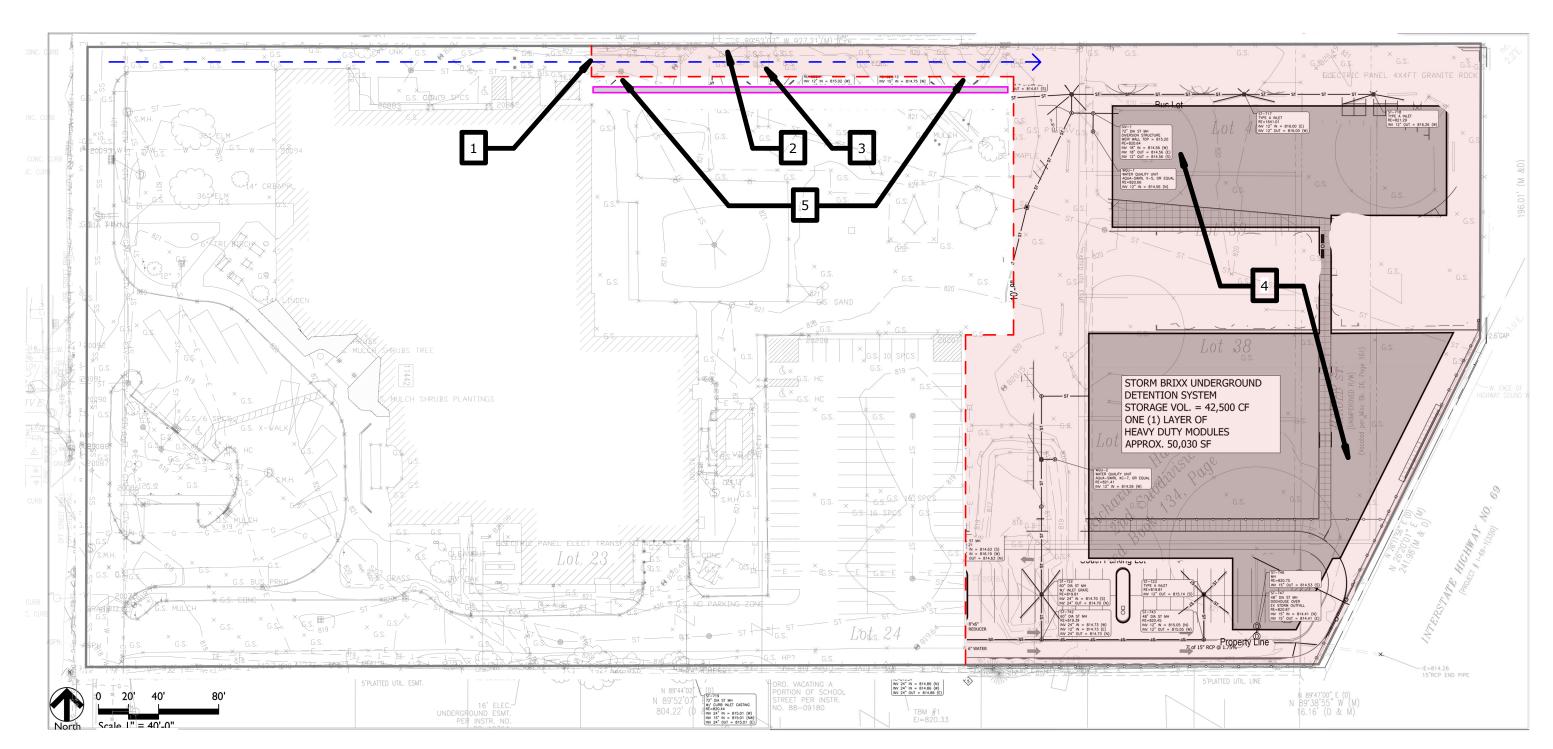
CONSTRUCTION TRAFFIC

3. BP 1 - REMOVE TWO PAIRS OF SWINGS AND SAVE FOR REINSTALLATION

4. STORM DETENTION AND PIPING TO BE INSTALLED COMPLETE IN THE CONSTRUCTION WORK AREA DURING THIS PHASE

2. BP 32B - REMOVE "V" FROM FENCE AND MAKE STRAIGHT DURING THIS PHASE

5. (BP 31) - REMOVE PLAY AREA 6X6 WOOD BORDER AND CLEAR MULCH ONTO EXISTING AREA TO LOCATE CONCRETE BARRICADES



Phase 1 - March 4, 2024 to May 26th, 2024

**NOTES:** SITE LOGISTICS LEGEND

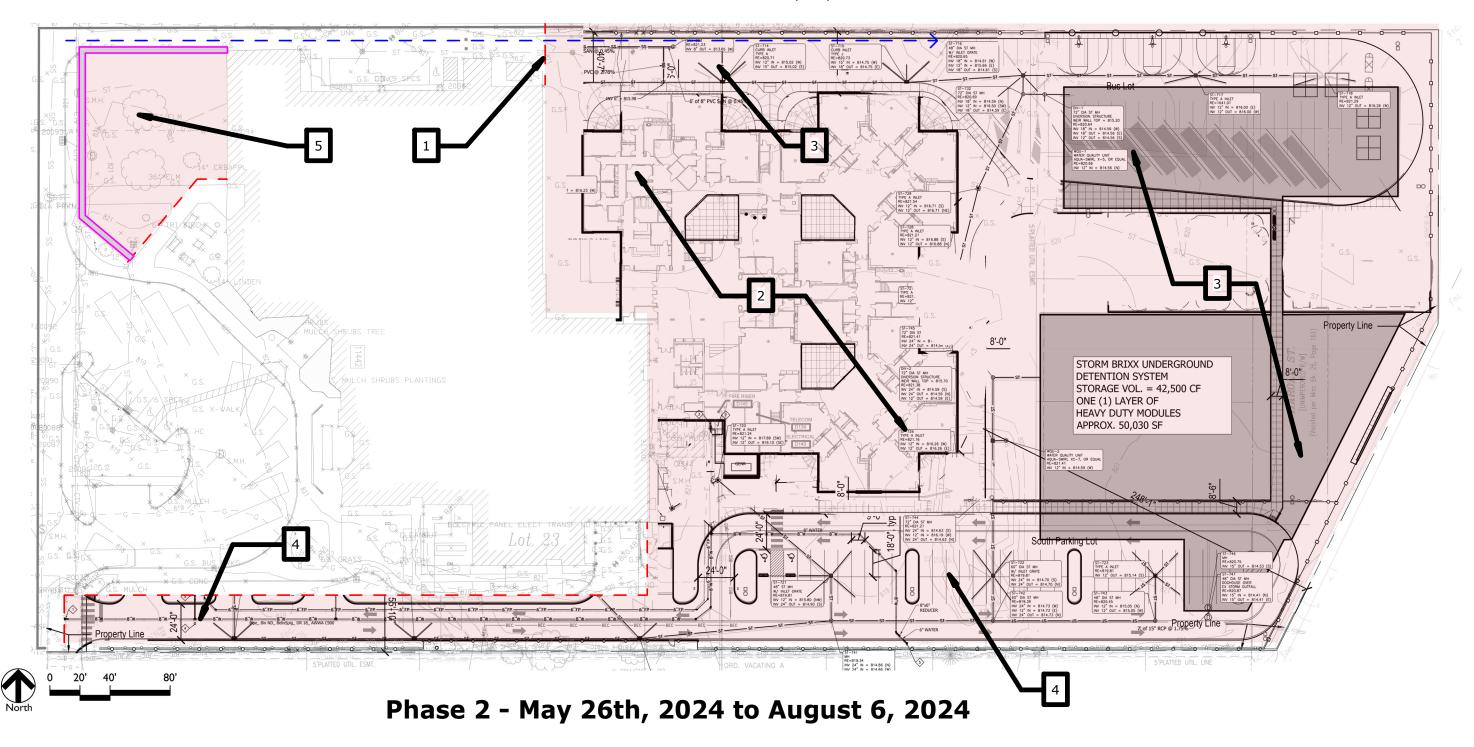
SITE FENCING CONSTRUCTION TRAFFIC

> **CONCRETE JERSEY** BARRIERS WITH

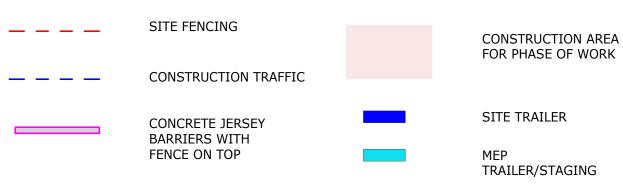
FENCE ON TOP

CONSTRUCTION AREA FOR PHASE OF WORK

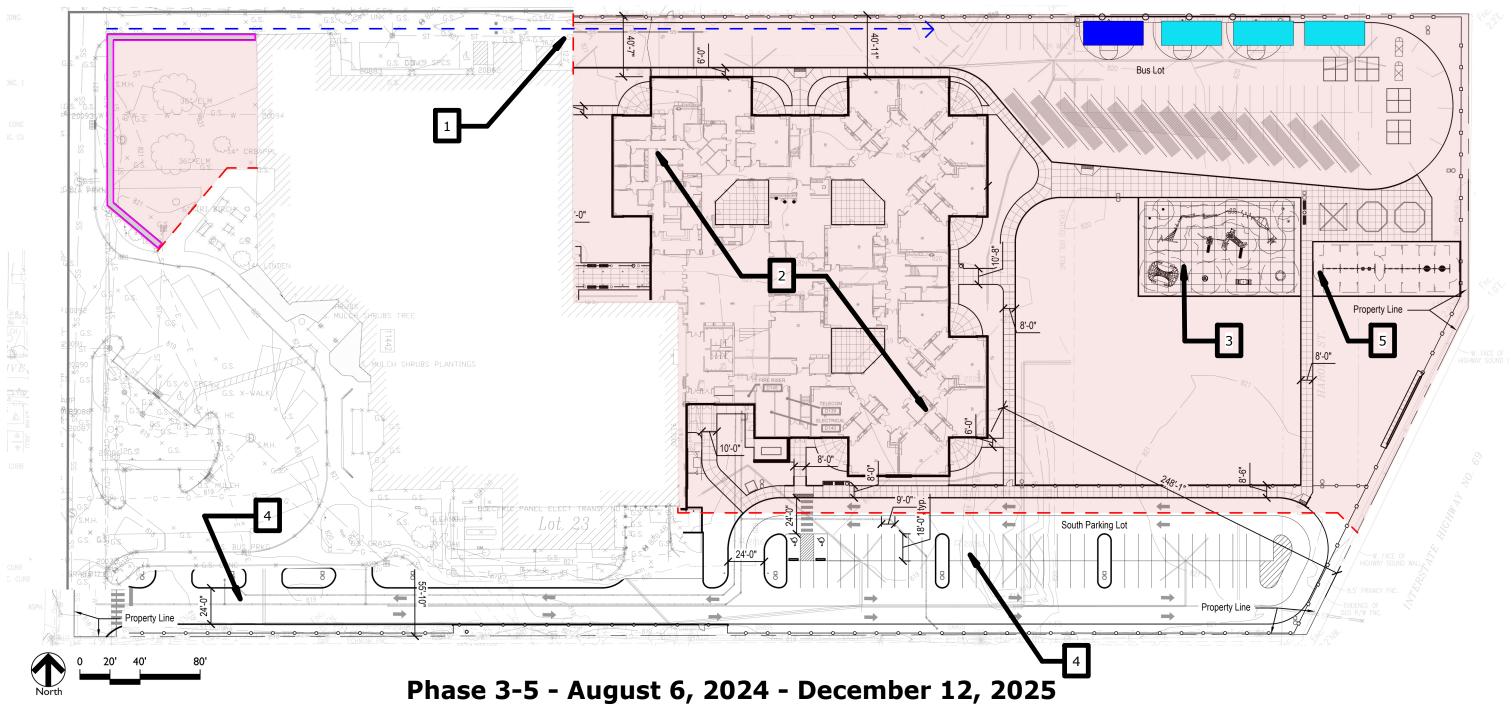
- 1. CONSTRUCTION ENTRANCE
- 2. DEMOLITION AND START FOUNDATIONS
- 3. FINALIZE PHASE 1 STORM STRUCUTRES (BP 31)
- 4. INSTALL SOUTH STORM COMPLETE (BP 31) AND GET TRAFFIC AREA BACK TO STONE (BP 32A)
- 5. REMOVE TREES AND INSTALL MULCH FROM EXISTING PLAY YARD (BP 31) RELOCATE SWINGS FROM PHASE 1 AND ONE GAGA PIT TO AREA (BP 1)



SITE LOGISTICS LEGEND NOTES:



- 1. CONSTRUCTION ENTRANCE
- 2. VERTICAL CONSTRUCTION REFER TO BID SCHEDULE FOR INTERIOR BUILD OUT PHASES
- 3. (BP 31) STONE LAYDOWN AREA  $100' \times 60' 4''$  DEEP #53 STONE INSTALL AND THEN REMOVE AT PLAY EQUIPMENT PREP AND INSTALL
- 4. STONE DRIVE COMPLETE FOR STUDENT DROPOFF AND PICK UP BY 8/6/24. ASPHALT COMPLETE BY FALL OF 2025 (BP 32A)
- 5. PLAYGROUND EQUIPMENT AND ALL SITE IMPROVEMENTS INCLUDING BUS LOT INSTALLED COMPLETE FALL OF 2025

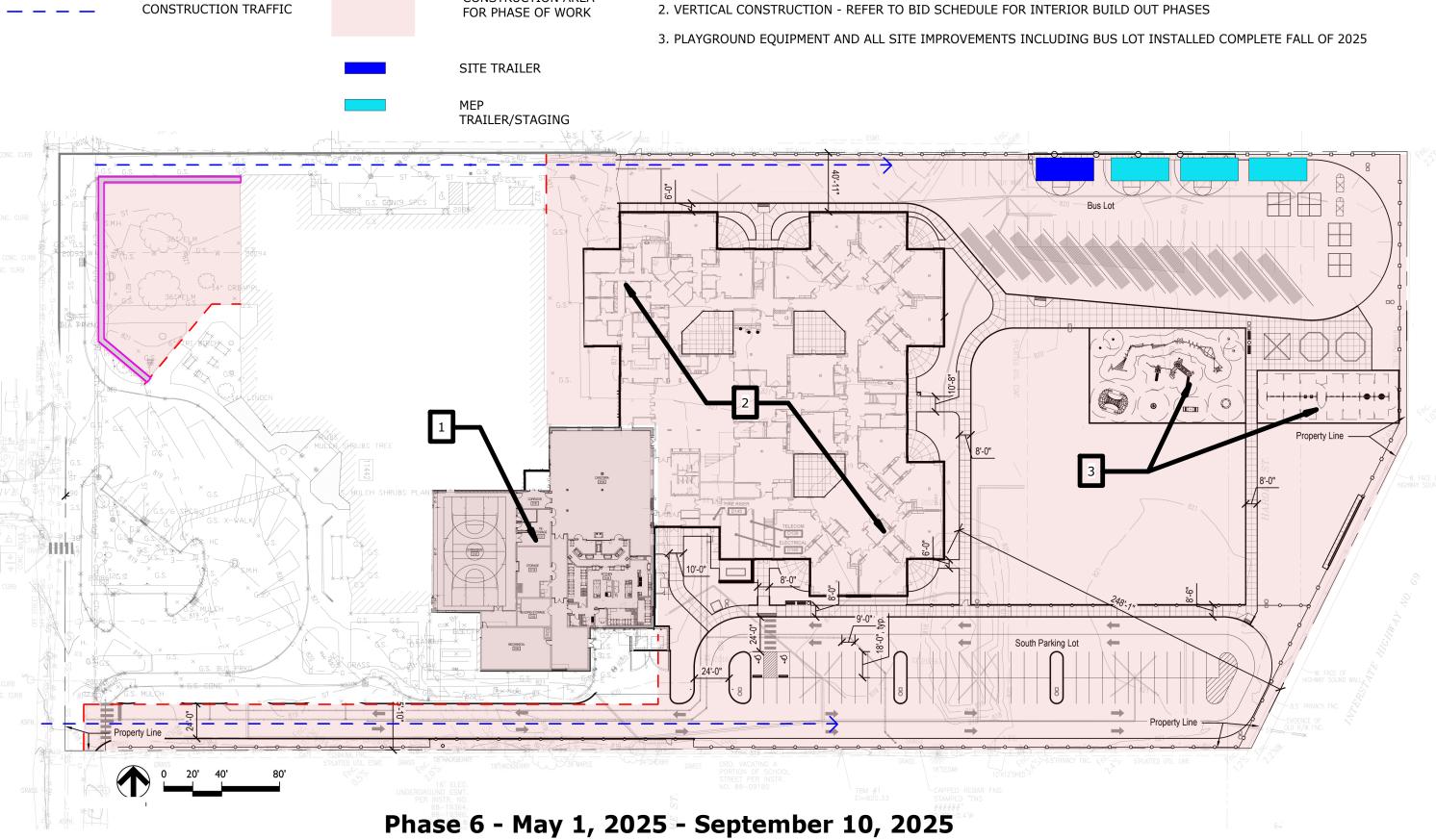


SITE LOGISTICS LEGEND **NOTES:** 

CONSTRUCTION AREA

1. KITCHEN 5.1.25 - 9.10.25, CAFETERIA 5.22.25 - 8.4.25

2. VERTICAL CONSTRUCTION - REFER TO BID SCHEDULE FOR INTERIOR BUILD OUT PHASES



SITE LOGISTICS LEGEND **NOTES:** 1. PARTIAL BUILDING DEMOLITION AND GYM EXPANSON CONSTRUCTION AREA FOR PHASE OF WORK CONSTRUCTION TRAFFIC 2. VERTICAL CONSTRUCTION - REFER TO BID SCHEDULE FOR INTERIOR BUILD OUT PHASES 3. PLAYGROUND EQUIPMENT AND ALL SITE IMPROVEMENTS INCLUDING BUS LOT INSTALLED COMPLETE FALL OF 2025 SITE TRAILER 4. PLAY AREA STAYS IN OPERATION UNTIL PERMENANT PLAY EQUIPMENT IS INSTALLED AND OPERATING MEP TRAILER/STAGING South Parking Lot Phase 7 - March 31, 2025 - November 26, 2025

SITE LOGISTICS LEGEND

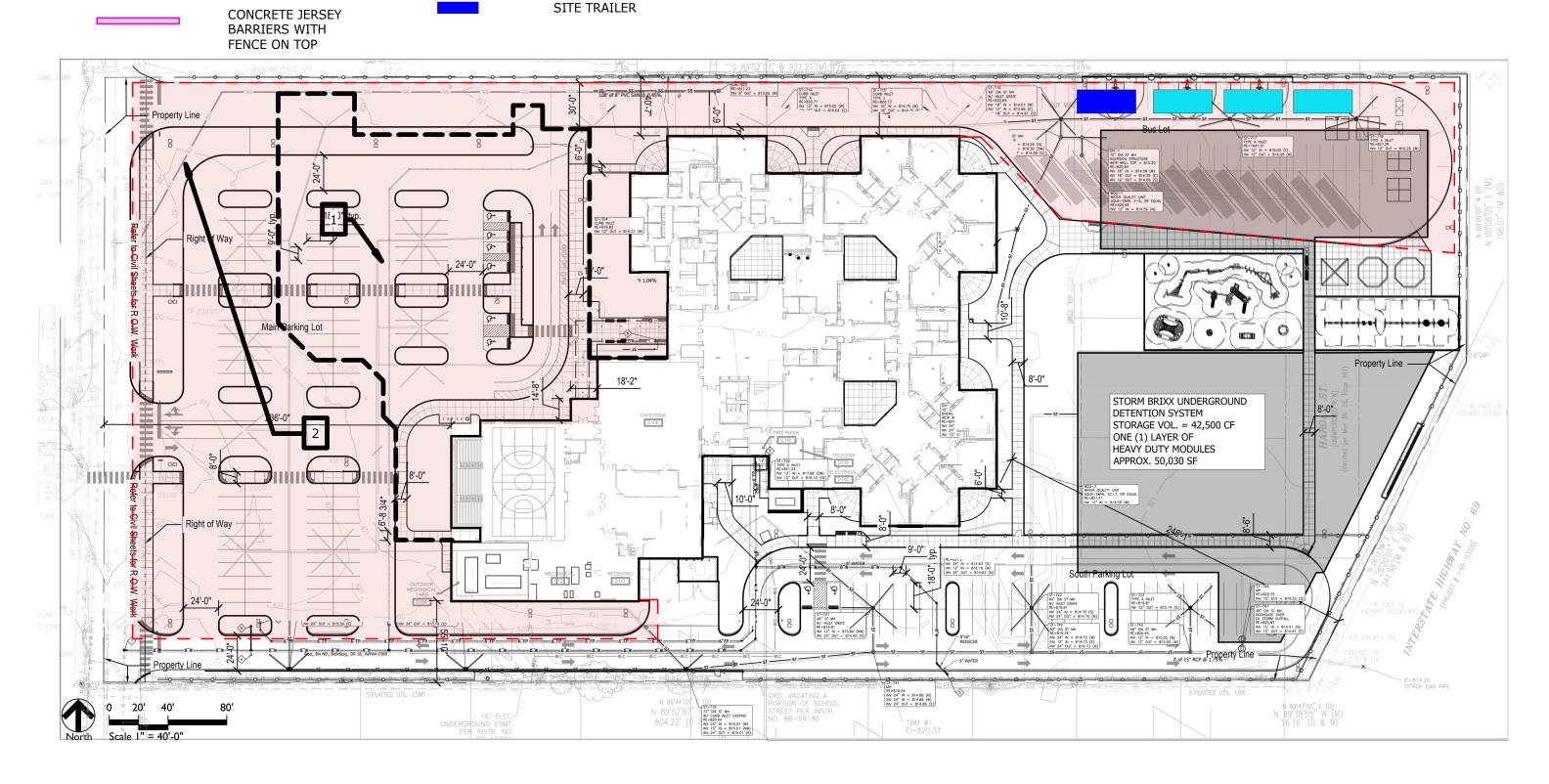
SITE FENCING

CONSTRUCTION AREA FOR PHASE OF WORK

CONSTRUCTION TRAFFIC

1. DEMO EXISTING CLASSROOMS
2. SITE IMPROVEMENTS

3. FINISH NORTH BUS LOT COMPLETE PRIOR TO DEMOLISHING BUS LOT TO THE WEST OF THE EXISTING SCHOOL



Phase 8 - December 15, 2025 - July 22, 2026