

**THE SCHOOL DISTRICT OF PHILADELPHIA**  
**Office of Capital Programs**  
**440 North Broad Street, 3<sup>rd</sup> Floor – Suite 371**  
**Philadelphia, PA 19130**

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**Addendum No. 001**

**Subject:** Francis Hopkinson School Classroom Modernization Renovation  
SDP Contract Nos. 2022-006-G, 2022-006-P, 2022-006-E

**Location:** Francis Hopkinson School  
1301 – 31 E Luzerne Street  
Philadelphia, Pennsylvania 19124

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**This Addendum, dated 17 of February, 2022, shall modify and become part of the Contract Documents for the work of this project. Any items not mentioned herein, or affected by, shall be performed strictly in accordance with the original documents.**

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**SPECIFICATIONS:**

**SECTION 03 54 16**

1. REPLACE Section 03 54 16 Hydraulic Cement Underlayment with the attached section. Changes made shown underlined and in red font.

**SECTION 09 65 19**

1. REPLACE Section 09 65 19 Resilient Tile Flooring with the attached section. Changes made shown underlined and in red font.

**SECTION 10 11 00**

1. REPLACE Section 10 11 00 Visual Display Units with attached section. Changes made shown underlined and in red font.

**SECTION 27 13 00**

1. REPLACE Section 27 13 00 Communications Systems with attached section.

**ARCHITECTURAL DRAWINGS:**

**DRAWING A-004**

1. ADD Keynote A17 to “Floor Plan – Key Notes” as indicated on drawings.

**DRAWING A-005**

1. MODIFY Remark “8L” to “8A” as indicated on drawings.

**DRAWING A-110**

1. ADD Keynote “A17” to Classroom 103 as indicated on drawings

**DRAWING A-130**

1. ADD Detail C-AS as indicated on drawings.

**DRAWING A-131**

1. MODIFY Detail 1/A-131 as indicated on drawings.
2. MODIFY Detail 5/A-131 as indicated on drawings.
3. MODIFY, Detail number for “Finish Plan – Zone B” as indicated on drawings

4. MODIFY, Detail number for “Finish Plan – Zone C” as indicated on drawings

**DRAWING A-401**

1. MODIFY Detail A28 as indicated on drawings.

**DRAWING A-402**

1. MODIFY Detail A49 as indicated on drawings.

**DRAWING A-800**

1. MODIFY Detail 4/A-800 as indicated on drawings.

**ELECTRICAL DRAWINGS:**

**DRAWING E-100**

1. MODIFY Sheet notes as indicated on drawings
2. MODIFY Detail 1 as indicated on drawings
3. MODIFY Detail 2 as indicated on Drawings
4. MODIFY Detail 3 as indicated on drawings

**DRAWING E-101**

1. MODIFY Sheet notes as indicated on drawings
2. MODIFY Detail 1 as indicated on drawings
3. MODIFY Detail 2 as indicated on Drawings

**DRAWING E-110**

1. MODIFY General notes as indicated on drawings
2. MODIFY Sheet notes as indicated on drawings

**DRAWING E-111**

1. MODIFY General notes as indicated on drawings
2. MODIFY Sheet notes as indicated on drawings

**DRAWING E-120**

1. MODIFY General notes as indicated on drawings
2. MODIFY Sheet notes as indicated on drawings

**DRAWING E-121**

1. MODIFY General notes as indicated on drawings
2. MODIFY Sheet notes as indicated on drawings

**DRAWING E-130**

1. MODIFY General notes as indicated on drawings
2. MODIFY Sheet notes as indicated on drawings

**DRAWING E-131**

1. MODIFY General notes as indicated on drawings
2. MODIFY Sheet notes as indicated on drawings
3. MODIFY Detail 2 as indicated on drawings

**DRAWING E-200**

1. MODIFY Responsibility matrix as indicated on drawings

**BIDDER’S QUESTIONS AND RESPONSES ARE AS FOLLOWS:**

Question 1: Please confirm that Catharine Elementary School is the only Classroom Modernization project that requires Room Signage. The bid documents for all the other projects include a specification for signage however, Catharine ES is the only project that shows signage on the drawings.

**Answer 1: There is no signage in the scope of the Francis Hopkinson School Classroom Modernization project.**

Question 2: Section 01 11 00 Environmental Coordination, Part 4 – Renovation, Repair, and Painting – US EPA Lead Based Paint Rule. It is our understanding that the Renovation, Repair, and Painting (RRP) is limited to the surfaces in the 15 classrooms indicated as “no hatch” on Drawing A-002. Please confirm that our understanding is correct. Alternatively, provide a listing of all surfaces in all rooms throughout the building that require RRP work.

**Answer 2: The hatch is a diagrammatic graphic used to show the general scope of work and should not be a determining factor in where finishes are applied. Refer to specifications, floor plans, interior elevations, RCPs, finish plans, and finish schedule and legend for full scope of work.**

Question 3: Drawings E-120 & E-121 keynote #4 calls for all receptacles to be tamper resistant AFCI. Spec section 262726 neither specifies duplex tamper resistant AFCI receptacles nor does it specify duplex tamper resistant combination GFCI/AFCI receptacles. Please clarify design intent.

**Answer 3: Provide tamper resistant receptacles – AFCI not required.**

Question 4: Drawings E-110, E-111, E-120, E-121, E-130, E-131 mention a general note regarding 500/700 series wiremold for new devices. Please confirm surface mounted EMT conduit with one hole straps can be provided instead as this has been done on previous SDP project numerous times and offers better protection from damage.

**Answer 4: Provide surface mounted EMT conduit in lieu of wiremold for new devices. General note updated on plans accordingly.**

Question 5: Drawings E-110, E-111, E-120, E-121, E-130, E-131 mention a general note regarding painting of surface raceways. Painting is in the GC contract per the summary of work spec section 011000. Please confirm this painting of surface raceways note applies to the GC contract.

**Answer 5: GC to paint the raceway.**

Question 6: Drawing E-130 keynote #3 and drawing E-131 keynote #3 specifies a catalog for a SAM series clock that receives the time signal via wires. In the same sentence the SAL series clock is mentioned which receives the time signal wirelessly which conflicts. The SAL series can either be powered by a battery, 24V circuit or 120V circuit. Which is the correct clock series SAM or SAL? Do the existing clocks on site receive the time signal from wires or wirelessly? How are the existing clocks on site powered (battery, 24v circuit, 120v circuit)?

**Answer 6: Provide SAM series clock – catalog number as noted on plan.**

Question 7: Drawings E-130 and E-131 show keynote #1 which mentions testing existing cables and removing/replacing the cables if they do not pass a test. The scope for removing/replacing the cables is **not** biddable. We cannot know what cables will pass and what cables will **not** pass prior to the bid, so it would be a complete guess as to how many won't pass. Please pick a scenario below to resolve this issue:

- Scenario #1: Provide an allowance to the EC bid and EC will provide proposal (or ticket work) during construction for removing/replacing cables
- Scenario #2: Eliminate remove/replacing cables that do not pass scope. Any cables that do not pass SDP can make a decision during construction on whether to replace them or not under additional cost to the contract.

**Answer 7: EC to replace all existing cables within scope of work area with new CAT6 cables.**

Question 8: Drawing E-130 keynote #4 and drawing E-131 keynote #6 call for providing a new rack “as necessary”. We cannot bid “as necessary” and SDP IT department should have coordinated this with the AE consultant during design phase. Please pick a scenario below to resolve this issue:

- Scenario #1: Provide an allowance to the EC bid and make a decision to provide a new rack during construction
- Scenario #2: Confirm new racks are **not** required and only patch panels need to be added in existing racks as required.
- Scenario #3: Provide details on new rack(s) and rack elevations for equipment required inside rack (e.g. wall mount or floor mount, U height, open rack or enclosed cabinet etc.) and how racks are receiving 120V power via new receptacles.

**Answer 8: New rack not required, provide patch panels needed in existing racks.**

Question 9: Drawing E-200 specifies Cat6A cable for new data outlets. Spec section 271300-3.2A mentions Cat6A, but spec section 271300-3.2C(2)(a) lists parts numbers for Cat6 rated cable which conflicts. Please clarify design intent.

**Answer 9: Provide CAT6 cables**

Question 10: Drawing E-131 keynote #4 specifies an analog speaker Bogen MB8TSQ. This keynote calls for a Cat6A cable which does not coordinate with the speaker specification. A Cat6A cable would be for a digital speaker but the specified speaker is an analog speaker that requires #16/2 twisted/shielded cable. Can SDP please clarify where to pick up the speaker circuit for this new speaker?

**Answer 10: All speakers shall require one CAT6 drop per speaker, each individually home run back to the MDF or nearest IDF. All speaker cabling shall be terminated on a patch panel at the closet, terminated on a RJ45 jack at the speaker, and shall be labeled at both ends according to the labeling guidelines in the specifications.**

**Speaker-side installation shall be as follows: Use the blue pair of the CAT6 to terminate to the speaker wires – white to the common, blue to the watt.**

**1W TAP - CLASSROOMS / OFFICES / ETC.**

**4W TAP - COMMON AREA / HALLWAYS / ETC.**

Question 11: Please provide bottom of fixture mounting height for the type D1/D1E pendants in Zone C Little School House.

**Answer 11: 9'-0" AFF**

Question 12: Types D1 and D1E are specified as standalone 8' fixtures. Please confirm the runs should be specified as a 24 ft continuous run where the manufacturer would provide (3) 8ft sections joined together.

**Answer 12: Confirmed.**

Question 13: Fixture Type A2E is specified on drawing E-110. There are no counts for type A2E on the floor plans. Please advise if fixture type is required.

**Answer 13: Type A2E not required.**

Question 14: Drawing E-111 shows counts for type C1E. C1E is not specified on the legend. Please provide specification.

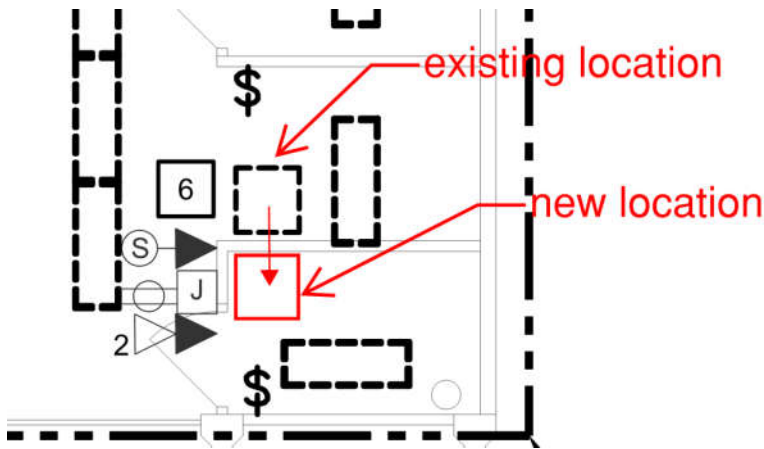
**Answer 14: C1E = SIGNIFY DAY-BRITE #FSW440L840-UNV-DIM-EMLED**

Question 15: Drawing E-111 specifies type F1E which we assume is supposed to be equipped with battery backup. Battery backup is not specified in the catalog number. Please clarify design intent.

**Answer 15: F1E = SIGNIFY DAY-BRITE #1FPZ30L840-4-DS-UNV-DIM-BSL10LST**

Question 16: Drawing E-101 keynote #6 and drawing E-131 keynote #5 call for relocating an IT rack. Extending cables are mentioned in keynote which is not possible CAT data cabling and fiberoptic cabling. Is the new rack location going to shorten the cable length so the data/fiberoptic cables can be cut to length and reused and re-terminated on the patch panels? Or will the cable not reach for the new rack location and we are supposed to figure new cables? If new cables are required, we need details on requirements or an allowance needs to be added to the EC bid for this vague scope. Please clarify design intent.

**Answer 16: Rack is being relocated to the other side of same wall. Intent is to disconnect / reconnect existing cables from its current location to new location on the other side of same wall. Extending cables refers to re-routing of existing cables to the other side of the wall and reconnecting them. See demo plan for existing rack location (also shown below).**



Question 17: Fixture types C2 and C2E on drawing E-111 are specified as 4' standalone fixtures. There are instances where (2) 4ft sections are mounted next to each other in a continuous run. There is a combination of (2) 4ft C2's. There is another combination of (1) 4ft C2 and (1) 4ft C2E (battery backup). If the manufacturer determines that it makes more sense from a manufacturing standpoint to provide these configurations below, is this acceptable?

- C2 (4ft) + C2 (4ft)
  - If Manufacturer can provide (1) 8ft section, is this acceptable?
- C2E (4ft with battery) + C2 (4ft)
  - If manufacturer can provide (1) 8ft section where 4ft of the section is on battery backup, is this acceptable?

**Answer 17: Yes**

**ATTACHMENTS:**

**SPECIFICATIONS**

Section 03 54 16	Hydraulic Cement Underlayment
Section 09 65 19	Resilient Tile Flooring
Section 10 11 00	Visual Display Units
Section 27 13 00	Communications Systems

**DRAWINGS**

Drawing A-004	General Information
Drawing A-005	Schedules
Drawing A-110	Demolition and Floor Plans – 'Zone A'
Drawing A-130	Interior Finish Legend and Schedules
Drawing A-131	Interior Finish Plans
Drawing A-401	Interior Elevations – 'Zone A'
Drawing A-402	Interior Elevations – 'Zone A'
Drawing A-800	Details
Drawing E-100	Electrical Demolition Plans – Zone A
Drawing E-101	Electrical Demolition Plans – Zone B and C
Drawing E-110	Lighting Plans – Zone A
Drawing E-111	Lighting Plans – Zones B and C
Drawing E-120	Power Plans – Zone A
Drawing E-121	Power Plans – Zones B and C
Drawing E-130	Special Systems Plans – Zone A
Drawing E-131	Special Systems Plans- Zones B and C
Drawing E-200	Electrical Details

**End of Addendum No. 1**

## **SECTION 03 54 16 - HYDRAULIC CEMENT UNDERLAYMENT**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

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

#### **1.2 SUMMARY**

- A. Section Includes:
  - 1. Polymer-modified, self-leveling, hydraulic cement underlayment for application below interior floor coverings.

#### **1.3 ACTION SUBMITTALS**

- A. Product Data: For the following:
  - 1. Hydraulic cement underlayment.
  - 2. Primer.

#### **1.4 INFORMATIONAL SUBMITTALS**

Qualification Data: For Installer. Installer who is approved by manufacturer for application of underlayment products required for this Project.

#### **1.5 FIELD CONDITIONS**

- A. Environmental Limitations: Comply with manufacturer's written instructions for substrate temperature, ventilation, ambient temperature and humidity, and other conditions affecting underlayment performance.

### **PART 2 - PRODUCTS**

#### **2.1 HYDRAULIC CEMENT UNDERLAYMENTS**

- A. Hydraulic Cement Underlayment: Polymer-modified, self-leveling, hydraulic cement product that can be applied in minimum uniform thickness of 1/4 inch (6 mm) and that can be feathered at edges to match adjacent floor elevations.
  - 1. Cement Binder: ASTM C150/C150M, portland cement, or hydraulic or blended hydraulic cement as defined by ASTM C219.

2. Compressive Strength: Not less than 5000 psi (34.5 MPa) at 28 days when tested according to ASTM C109/C109M.
3. Basis-of-Design Product: Subject to compliance with requirements, provide:
  - a. Ardex K15 System as manufactured by ARDEX Americas of Aliquippa, PA
  - b. Or comparable product by one of the following:
    - 1) ProSpec, H.B. Fuller Construction Products
    - 2) Dayton Superior Corporation
- B. Aggregate: Well-graded, washed gravel, 1/8 to 1/4 inch (3 to 6 mm); or coarse sand as recommended by underlayment manufacturer.
  1. Provide aggregate when recommended in writing by underlayment manufacturer for underlayment thickness required.
- C. Water: Potable and at a temperature of not more than 70 deg F (21 deg C).
- D. Primer: Product of underlayment manufacturer recommended in writing for substrate, conditions, and application indicated.

## 2.2 SELF-DRYING, CEMENT-BASED FINISH UNDERLAYMENT

- A. Cement-Based Finish Underlayment: Blend of Portland cement and other hydraulic cements to provide a smooth finish and a true featheredge.
  1. For use at doorway or transitions to existing flooring.
- B. Basis of Design Product: Subject to compliance with requirements, provide:
  1. Ardex Feather Finish, as manufactured by ARDEX Americas of Aliquippa, PA
  2. Or comparable product
- C. Primer:
  1. For gypsum surfaces: basis of design is Ardex P 51 Primer
  2. For other non-porous substrates, such as epoxy coating systems and metal: basis of design is Ardex P 82 Ultra Prime
- D. Water:
  1. Should be clean, potable, and not warmer than 70-degrees Fahrenheit

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, with Installer present, for conditions affecting performance of the Work.
- B. Proceed with application only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Prepare and clean substrate according to manufacturer's written instructions.
  - 1. Treat nonmoving substrate cracks according to manufacturer's written instructions to prevent cracks from telegraphing (reflecting) through underlayment.
  - 2. Fill substrate voids to prevent underlayment from leaking.
- B. Concrete Substrates: Mechanically remove, according to manufacturer's written instructions, laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants that might impair underlayment bond.
- C. Nonporous Substrates: For ceramic tile, quarry tile, and terrazzo substrates, remove waxes, sealants, and other contaminants that might impair underlayment bond; prepare surfaces according to manufacturer's written instructions. Sand over entire surface prior to primer.

### 3.3 INSTALLATION

- A. Mix and install underlayment components according to manufacturer's written instructions.
  - 1. Close areas to traffic during underlayment installation and for time period after installation recommended in writing by manufacturer.
  - 2. Coordinate installation of components to provide optimum adhesion to substrate and between coats.
  - 3. At substrate expansion, isolation, and other moving joints, allow joint of same width to continue through underlayment.
- B. Apply primer over prepared substrate at manufacturer's recommended spreading rate.
- C. Install underlayment to produce uniform, level surface.
  - 1. Install a final layer without aggregate to product surface.
  - 2. Feather edges to match adjacent floor elevations.
- D. Cure underlayment according to manufacturer's written instructions. Prevent contamination during installation and curing processes.
- E. Do not install floor coverings over underlayment until after time period recommended in writing by underlayment manufacturer.
- F. Remove and replace underlayment areas that evidence lack of bond with substrate, including areas that emit a "hollow" sound when tapped.
- G. For Self-Drying, Cement-Based Finish Underlayment Only: Where used as a transition to door threshold or existing floor finish to remain, slope product from pour stop or high point to threshold or existing finish at no greater than 1:20. Coordinate transition depth with slope and surrounding wall layout.



3.4 INSTALLATION TOLERANCES

- A. Finish and measure surface, so gap at any point between gypsum cement underlayment surface and an unlevelled, freestanding, 10-foot- (3.05-m-) long straightedge resting on two high spots and placed anywhere on the surface does not exceed 1/4 inch (6 mm).

3.5 PROTECTION

- A. Protect underlayment from concentrated and rolling loads for remainder of construction period.

END OF SECTION 03 54 16

## SECTION 09 65 19 - RESILIENT TILE FLOORING

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

- A. Section Includes:
  - 1. Vinyl Composition Tile (VCT)
- B. Related Sections include the following:
  - 1. Division 3 Section "Hydraulic Cement Underlayment" for underlayment and primer to be installed prior to VCT installation.

#### 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For each type of floor tile. Include floor tile layouts, edges, columns, doorways, enclosing partitions, built-in furniture, cabinets, and cutouts.
  - 1. Show details of special patterns.
- C. Product Schedule: For floor tile. Use same designations indicated on Drawings.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.

#### 1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For each type of floor tile to include in maintenance manuals.

#### 1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Floor Tile: Furnish one box for every 60 boxes or fraction thereof, of each type, color, and pattern of floor tile installed.

## 1.7 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who employs workers for this Project who are competent in techniques required by manufacturer for floor tile installation and seaming method indicated.
  - 1. Engage an installer who employs workers for this Project who are trained or certified by floor tile manufacturer for installation techniques required.

## 1.8 DELIVERY, STORAGE, AND HANDLING

- A. Store floor tile and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F or more than 90 deg F Store floor tiles on flat surfaces.

## 1.9 FIELD CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 95 deg F in spaces to receive floor tile during the following time periods:
  - 1. 48 hours before installation.
  - 2. During installation.
  - 3. 48 hours after installation.
- B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F or more than 95 deg F.
- C. Close spaces to traffic during floor tile installation.
- D. Close spaces to traffic for 48 hours after floor tile installation.
- E. Install floor tile after other finishing operations, including painting, have been completed.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: For resilient tile flooring, as determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
  - 1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

### 2.2 Vinyl Composition Tile (VCT)

- A. Products: Subject to compliance with requirements, provide one of the following:
  - 1. Armstrong "Standard Excelon Imperial Texture VCT"
- B. Tile Standard: ASTM F 1066, Class 2, through-pattern.
- C. Wearing Surface: Smooth
- D. Thickness: 0.125 inch

- E. Size: 12 by 12 inches
- F. Color: Refer to drawings for color selections and patterns.

### 2.3 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by floor tile manufacturer for applications indicated.
- B. Adhesives: Water-resistant type recommended by floor tile and adhesive manufacturers to suit floor tile and substrate conditions indicated.
  - 1. Adhesives shall comply with the following limits for VOC content:
    - a. Vinyl Composition Tile Adhesives: 50 g/L or less.
    - b. Luxury Vinyl Tile Adhesives: Per manufacturer's recommendations.
  - 2. Adhesives shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
  - 3. Provide adhesive for porous substrates.
- C. Floor Polish: Provide protective, liquid floor-polish products recommended by floor tile manufacturer.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
  - 1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of floor tile.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. Receive Resilient Tile Floor Manufacturer's written approval of substrate required before installation of any tile flooring. The Carpet and Resilient Tile Contractor is responsible for obtaining the Resilient Tile Flooring Manufacturer's written approval of the floor as an acceptable substrate for the installation of manufacturer's tile product specified. If the floor is not acceptable to the manufacturer, the general contractor is responsible for preparing the floor to receive the new tile, as specified in order paragraphs of this specification, including an underlayment or leveling compound where necessary to meet all requirements for a manufacturer's approval of the substrate.

### 3.2 PREPARATION

- A. Prepare substrates according to floor tile manufacturer's written instructions to ensure adhesion of resilient products.
- B. Concrete Substrates: Prepare according to ASTM F 710.
  - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.

2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by floor tile manufacturer. Do not use solvents.
  3. Alkalinity and Adhesion Testing: Perform tests recommended by floor tile manufacturer. Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 10 pH.
  4. Moisture Testing: Proceed with installation only after substrates pass testing according to floor tile manufacturer's written recommendations, but not less stringent than the following:
    - a. Perform anhydrous calcium chloride test according to ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. in 24 hours.
    - b. Perform relative humidity test using in situ probes according to ASTM F 2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level.
- C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.
- D. Do not install floor tiles until they are the same temperature as the space where they are to be installed.
  1. At least 48 hours in advance of installation, move resilient floor tile and installation materials into spaces where they will be installed.
- E. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient floor tile.

### 3.3 FLOOR TILE INSTALLATION

- A. Comply with manufacturer's written instructions for installing floor tile.
- B. Lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter.
  1. Lay tiles in pattern indicated
- C. Match floor tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles.
  1. Lay tiles with grain running in one direction.
- D. Scribe, cut, and fit floor tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, and door frames.
- E. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles to center of door openings.
- F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on floor tiles as marked on substrates. Use chalk or other nonpermanent marking device.
- G. Install floor tiles on covers for telephone and electrical ducts, building expansion-joint covers, and similar items in finished floor areas. Maintain overall continuity of color and pattern between pieces of tile installed on covers and adjoining tiles. Tightly adhere tile edges to substrates that abut covers and to cover perimeters.

- H. Adhere floor tiles to flooring substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.

### 3.4 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protecting floor tile.
- B. Perform the following operations immediately after completing floor tile installation:
  - 1. Remove adhesive and other blemishes from exposed surfaces.
  - 2. Sweep and vacuum surfaces thoroughly.
  - 3. Damp-mop surfaces to remove marks and soil.
- C. Protect floor tile from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
- D. Floor Polish: Remove soil, adhesive, and blemishes from floor tile surfaces before applying liquid floor polish.
- E. Joint Sealant: Apply sealant to resilient terrazzo floor tile perimeter and around columns, at door frames, and at other joints and penetrations.
- F. Sealers and Finish Coats: Remove soil, visible adhesive, and surface blemishes from resilient floor tile surfaces before applying liquid cleaners, sealers, and finish products.
  - 1. Finish: Apply 3 coats of liquid floor polish to vinyl composition tile flooring.
- G. Cover floor tile until Substantial Completion.

END OF SECTION 096519

## SECTION 10 11 00 - VISUAL DISPLAY UNITS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

- A. Section Includes:

1. Products defined by Finish Tags MB & TB (noted on drawings):
  - a. Markerboards (MB), includes:
    - 1) MB = Markerboard w/ Aluminum Frame (adhered to wall surface)
    - 2) MB1 = Markerboard "Skin" (adhered to existing Chalkboard)
    - 3) MB2 = Markerboard "Skin" (adhered to MDF panel / blocking)
  - b. Tackboards (TB), includes:
    - 1) TB = Vinyl Tackboard w/ Aluminum Frame
    - 2) TBW = Vinyl Tackboard – Edge Wrapped (adhered to wall surface)
    - 3) TB1 = Vinyl Tackboard – Edge Wrapped (adhered to existing Chalkboard)
    - 4) TB2 = Vinyl Tackboard – Edge Wrapped (adhered to MDF panel / blocking)
    - 5) TB3 = Vinyl Tack Covering (adhered to existing wood panel)
    - 6) TB4 = Same product as TB (see above)
  - c. Display/Map Rail

#### 1.3 SUBMITTALS

- A. Product Data: For each type of visual display board indicated.
- B. Shop Drawings: For each type of visual display board required.
1. Include dimensioned elevations. Show location of joints between individual panels where unit dimensions exceed maximum panel length.
  2. Include sections of typical trim members.
  3. Show anchors, grounds, reinforcement, accessories, layout, and installation details.
  4. Contractor shall verify the existing board dimensions to ensure new visual display boards cover extent of existing boards.
- C. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors and textures available for the following:
1. Markerboards: Actual sections of porcelain enamel finish for each type of markerboard required.
  2. Vinyl-Faced Cork Tackboards: Fabric swatches for each type of vinyl- faced cork tackboard indicated.

- D. Product Certificates: Signed by manufacturers of tackboards certifying that vinyl-faced materials furnished comply with requirements specified for flame-spread ratings.

#### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced installer who is an authorized representative of markerboard manufacturer for both installation and maintenance of markerboard units.
- B. Source Limitations: Obtain visual display boards through one source from a single manufacturer.
- C. Product Options: Drawings indicate size, profiles, and dimensional requirements of visual display boards and are based on the products indicated.
  - 1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval and only to the extent needed to comply with performance requirements. Where modifications are proposed, submit comprehensive explanatory data to Architect for review.
- D. Fire-Test-Response Characteristics: Provide vinyl-fabric-faced tackboards with the following surface-burning characteristics as determined by testing assembled materials composed of facings and backings identical to those required in this Section per ASTM E 84 by a testing and inspecting agency acceptable to authorities having jurisdiction. Identify vinyl-fabric-faced tackboards with appropriate markings of applicable testing and inspecting agency.
  - 1. Flame Spread: 25 or less.
  - 2. Smoke Developed: 10 or less.
- E. Field Measurements: Verify field measurements before preparation of Shop Drawings and before fabrication to ensure proper fitting. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
  - 1. Allow for trimming and fitting where taking field measurements before fabrication might delay the Work.

#### 1.5 WARRANTY

- A. Writing Surface: Manufacturer's standard, written, material warranty agreeing at manufacturer's option to repair or replace the original boards if they do not retain their original writing and erasing qualities, gloss variance, or color consistency under normal usage and maintenance, without reducing or otherwise limiting any other rights to correction which the Owner may have under the Contract Documents. Warranty does not include the cost of removal or reinstallation.
  - 1. Term of Warranty: As long as the product is installed and in use, or Forever, whichever comes first.
- B. Workmanship and Materials: Manufacturer's standard, written, material replacement warranty agreeing at manufacturer's option to repair or replace any products which, under normal usage and maintenance, show defects in workmanship or materials, without reducing or otherwise limiting any other rights to correction which the Owner may have under the Contract Documents. Warranty does not include the cost of removal or reinstallation.
  - 1. Term of Warranty: 10 years from date of Substantial Completion.



## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Porcelain Enamel Steel Markerboards: ALL MUST PROVIDE E-3 Environmental Ceramicsteel Magnetic Surface.
    - a. Claridge Products and Equipment, Inc.
    - b. Marsh Industries
    - c. AARCO
    - d. Polyvision
  2. Tackboards:
    - a. Claridge Products and Equipment, Inc.
    - b. Marsh Industries
    - c. AARCO.
    - d. Polyvision
  3. Tackstrips/Display:
    - a. Marsh Industries
    - b. Claridge Products and Equipment, Inc.
    - c. AARCO.
    - d. Polyvision

### 2.2 MATERIALS FOR MARKERBOARD (MB) PANELS

- A. Description of Markerboard Assemblies:
1. MB = Markerboard w/ Aluminum Frame, typical
    - a. Basis of Design: Claridge Products – E-3 Surface over manuf. core w/ Series #1 Alum. Frame
    - b. Size / Installation: Reference Drawings
  2. MB1 = Markerboard “Skin” (adhered to existing Chalkboard)
    - a. Basis of Design: Claridge Products – E-3 Surface
    - b. Size / Installation: Reference Drawings
  3. MB2 = Markerboard “Skin” (adhered to MDF panel/blocking)
    - a. Basis of Design: Claridge Products – E-3 Surface
    - b. Size / Installation: Installed over ½” thick MDF panel, by GC. Reference drawings for overall size & locations.
- B. Writing Surface Facing Sheet
1. E-3 Environmental Ceramicsteel Magnetic Surface shall be enameling grade cold rolled steel manufactured from a minimum of 30 percent post-consumer and post-industrial waste, .016" thick for all pre-framed boards without joints. All face sheets shall be .025" thick for boards with spline joints and have the same content as .016" thick face sheets.

2. All enameling grade steel shall be coated with the Cradle to Cradle certified e3 environmental ceramicsteel coating process developed by PolyVision or equal. Writing surfaces shall exhibit the following characteristics:
    - a. All coatings shall contain less than a combined total of less than 0.1 percent of heavy metals cadmium, mercury, hexavalent chromium, and lead.
    - b. All coatings shall be free of arsenic and antimony as well as volatile organic compounds.
    - c. Writing surface face sheet shall be 99 percent recyclable.
    - e. Marker board 80 to 85 percent gloss (low gloss surface, recommended for projection. Wet cleaning required if used as a marker surface.)
    - f. Facing sheet coatings:
      - 1) 1.7-2.5 mils enameled ground coat on face minimum thickness.
      - 2) 3.0 – 4.0 mils enameled cover (color) coat for marker board.
      - 3) 1.7-2.5 mils enameled minimum ground coat on back of facing.
      - 4) Firing temperatures shall be 1475-1500 degrees minimum for marker boards, and 1200-1250 degree for chalk boards.
    - g. Color(s): "White", unless noted otherwise
- C. Writing Surface Core
1. Core: Minimum 7/16 inch thick, particleboard core material complying with requirements of ANSI A208.1, Grade 1-M-1.
  2. Backing Sheet: manufacturer's standard. Moisture blocking backing 015 thick recyclable, and shall be factory laminated to core material.
  3. Laminating Adhesive: Manufacturer's standard, moisture-resistant, thermoplastic-type adhesive.
- D. Lamination
1. Factory machine type only.
- E. Writing Surface Overlay "Skin"
1. Basis of Design: Claridge Products – LCS Skins
    - a. Steel Gauge: 24
  2. Materials: Equal to standards indicated above.
  3. Size: Custom, refer to drawings and verify dimensions in field.
  4. Installation: Over existing boards (where indicated in drawings)
  5. Adhesive:
    - a. Where installations are detailed over existing Chalkboard (slate panels), provide troweled contact cement, per manufacture's recommendations, similar to Claridge Products – 18A Adhesive
- 2.3 MATERIALS FOR TACKBOARD (TB) PANELS
- A. Description of Tackboard Assemblies:
1. TB = Vinyl Tackboard w/ Aluminum Frame, typical
    - a. Basis of Design: Claridge – Fabricork #1380 w/ Series #1 Alum. Frame
    - b. Vinyl fabric on ½ inch core composed of 1/8-inch natural cork over 3/8 inch backer board (Duracore) with Aluminum Frame at perimeter.
    - c. Size / Installation: Reference Drawings
  2. TBW = Vinyl Tackboard – Edge Wrapped
    - a. Basis of Design: Claridge – Fabricork #1380EW

- b. Vinyl fabric on ½ inch core composed of 1/8-inch natural cork over 3/8 inch backer board (Duracore), wrap fabric over edges onto back of core panel.
- 3. TB1 = Vinyl Tackboard - Edge Wrapped (adhered to existing Chalkboard)
  - a. Basis of Design: Claridge – Fabricork #1380EW
  - b. Vinyl fabric on ½ inch core composed of 1/8-inch natural cork over 3/8 inch backer board (Duracore), wrap fabric over edges onto back of core panel.
  - c. Size / Installation: Reference Drawings
- 4. TB2 = Vinyl Tackboard – Edge Wrapped (adhered to MDF panel & blocking)
  - a. Basis of Design: Claridge – Fabricork #1380EW
  - b. Vinyl fabric on ½ inch core composed of 1/8-inch natural cork over 3/8 inch backer board (Duracore), wrap fabric over edges onto back of core panel.
- 5. TB3 = Vinyl Tackboard Covering (adhered to existing wood panels, scribe to existing wood frame)
  - a. Basis of Design: Claridge – Fabricork #1500
  - b. Vinyl fabric over core of ¼” natural cork
- B. Core:
  - 1. Composed of 100 percent post-consumer and post-industrial waste or 100 percent naturally sustainable.
  - 2. Basis of Design: Claridge - Duracore
- C. Vinyl Coverings:
  - 1. Covering: 20 ounce per linear yard, 2-ply, 100 percent recycled polyester with a plain non directional weave pattern. Mildew-resistant, washable vinyl fabric complying with FS CCC-W-408, Type II, weighing not less than 13 oz./sq. yd, laminated to cork over fiberboard.
  - 2. Color / Pattern: If not indicated in drawings, provide samples of manufacture’s full range of standard options.

## 2.4 ACCESSORIES

- A. Metal Trim and Accessories:
  - 1. Fabricate frames and trim of not less than 0.062-inch thick, extruded-aluminum alloy, size and shape as indicated, to suit type of installation. Provide straight, single-length units. Keep joints to a minimum. Miter corners to a neat, hairline closure.
  - 2. Where size of visual display boards or other conditions require support in addition to normal trim, provide structural supports or modify trim as indicated or as selected by Architect from manufacturer's standard structural support accessories to suit conditions indicated.
  - 3. Basis-of-Design: Claridge Products - Series #1 Boards
- B. Field-Applied Trim: Manufacturer's standard snap-on trim with no visible screws or exposed joints.
- C. Map Rail: Furnish map rail at top of each aluminum framed markerboard with rail length equaling length of markerboard. In instances where tackboard(s) are located adjacent to markerboard display rail should equal length of markerboard and tackboard(s). Each display rail on markerboard should be complete with the following accessories:
  - 1. Display Rail: Provide continuous cork display rail approximately 2 inches wide integral with map rail.

- a. 100 percent naturally sustainable 1/4-inch thick pure grain natural cork at all tackstrips and display rails.
- b. Provide a minimum of 12 colors to select cork, ie: Claridge Cork
2. End Stops: Provide one end stop at each end of map rail.
3. Map Hooks: Provide 2 metal map hooks for every 48 inches of map rail or fraction thereof.
4. Flag Holder: Provide one flag holder for each room.
5. Metal roller brackets: Provide one pair for each room.

D. Adhesives

1. Mildew-resistant, nonstaining adhesive for use with specific type of panels, sheets, or assemblies; and for substrate application; as recommended in writing by visual display unit manufacturer

2.5 FABRICATION

- A. Porcelain Enamel Markerboards: Laminate facing sheet and backing sheet to core material under pressure with manufacturer's recommended flexible, waterproof adhesive.
- B. Assembly: Provide factory-assembled markerboard and tackboard units, unless field assembled units are required.
  1. Make joints only where total length exceeds maximum manufactured length. Fabricate with minimum number of joints, balanced around center of board, as acceptable to Architect.
  2. Provide manufacturer's standard mullion trim at joints between markerboard and tackboards.

2.6 FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations relative to applying and designating finishes.
- B. Finish designations prefixed by AA conform to the system established by the Aluminum Association for designating aluminum finishes.
- C. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.010 mm or thicker) complying with AAMA 607.1.

PART 3 - PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine wall surfaces, with Installer present, for compliance with requirements and other conditions affecting installation of visual display boards.
- B. Surfaces to receive markerboards shall be free of dirt, scaling paint, and projections or depressions that would affect smooth, finished surfaces of markerboards.

- C. Surfaces to receive tackboards shall be dry and free of substances that would impair the bond between tackboards and substrate.
- D. Existing Chalkboard (slate surfaces) to receive new Writing Surface Overlay "Skin" product to be cleaned of all debris including: chalk residue, adhesive, screws, nails. If skin spans over an existing joint between chalkboard panels, provide filler and sand smooth.
- E. Do not proceed with installation until unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. Deliver factory-built visual display boards completely assembled in one piece without joints, where possible. If dimensions exceed panel size, provide 2 or more pieces of equal length as acceptable to Architect. When overall dimensions require delivery in separate units, prefit components at the factory, disassemble for delivery, and make final joints at the site. Use splines at joints to maintain surface alignment.
- B. Install units in locations and at mounting heights indicated and according to manufacturer's written instructions. Keep perimeter lines straight, plumb, and level. Provide grounds, clips, backing materials, adhesives, brackets, anchors, trim, and accessories necessary for complete installation.
- C. Coordinate Project-site-assembled units with grounds, trim, and accessories. Join parts with a neat, precision fit.

### 3.3 ADJUSTING AND CLEANING

- A. Verify that accessories required for each unit have been properly installed and that operating units function properly.
- B. Clean units according to manufacturer's written instructions.

END OF SECTION

## SECTION 271300 – COMMUNICATIONS SYSTEMS

### PART 1 -GENERAL

#### 1.1 FORWARD

- A. The following specification is typically intended for the extension of existing communications systems in an existing facility. They are intended to provide a set of instructions and materials needed for installation of additional data and voice ports, and additional cabling for new data and voice ports, etc. within parameters set by industry standards and by the SDP IT Department:

#### 1.2 DESIGN

- A. Structured Cabling Systems:

1. All horizontal drops for voice and data shall be Cat.6 (minimum) copper.
2. From drop locations to IDF

#### 1.3 APPLICABLE STANDARDS

- A. EIA/TIA-569A-1 to A-7. "Commercial Building Standard for Telecommunications Pathways and Spaces."
- B. EIA/TIA-568-B.1 & B.1-1; B.2, B-2.2, B-2.3; B.3."Commercial Building Telecommunication Standard."
- C. EIA/TIA-455-61. "FOTP-61, Measurement of Fiber or Cable Attenuation Using an OTDR."
- D. ANSI/TIA/EIA-606. "The Administration Standard for the Telecommunications Infrastructure of Commercial Building."
- E. ANSI/TIA/EIA-607-A."Commercial Building Grounding and Bonding Requirements for Telecommunications."
- F. TIA/EIA 492AAAB "Detail Specification for 50µm Core Diameter/125µm Cladding Diameter Class Multi-Mode Optical Fibers"
- G. TIA/EIA 492AAAC-A "Detail Specification for 850-nm Laser Optimized 50-µm Core Diameter/125µm Cladding Diameter Class 1a Graded Index Multi-Mode Optical Fibers"
- H. IEEE 802.3 "Carrier Sense Multiple Access with Collision Detection" and all applicable supplements a through af.
1. IEEE 802.3u-100 Base T/100-Base-TX, Fast Ethernet
  2. IEEE 802.3z-Gigabit Ethernet
  3. IEEE 802.3 ab-1000 Base T
  4. IEEE 802.3ae-10 Gigabit Ethernet
- I. Electrical Code Compliance: Comply with applicable local and code requirements of the authority having jurisdiction.

- J. NFPA-70-NEC Compliance: Comply with NEC requirements as applicable to construction, installation and color coding of both power type wires/cables and control/signal transmission media.
- K. UL Compliance: Comply with applicable requirements of UL Standards 83, "Thermoplastic-Insulated Wires and Cables," 486A, "Wire Connectors and Soldering Lugs for Use with Copper Conductors," and UL 910, "Test Method for Fire and Smoke Characteristics of Cables Used in Air-Handling Spaces." Provide products which are UL-listed and labeled.
- L. NEMA/ICEA Compliance: Comply with NEMA/ICEA Std. Pub/No's WC-5, "Thermoplastic-Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy," and WC30, "Color Coding of Wires and Cables," pertaining to control and signal transmission media.
- M. ASTM Compliance: Comply with applicable requirements of D-2219 and D-2220. Provide copper conductors with conductivity of not less than 98% at 20°C (68°F).
- N. FCC Compliance: Comply with U.S. Federal Communications Commission Class 8 standard for allowable radiation from network equipment and wiring.
- O. Internet Networking Standards: Network hardware and software shall be able to communicate with the Internet and provide for the creation of IP based networks for the district. Supplied hardware and software shall comply with the following standards and RFC's as appropriate.
  - 1. MIL-STD -1777, RFC 971 -Internet Protocol
  - 2. MIL-STD -1778, RFC 793 -Transmission Control Protocol
  - 3. MIL-STD -1780, RFC 959 -File Transfer Protocol
  - 4. MIL-STD -1781, RFC 821 -Simple Mail Transfer Protocol
  - 5. MIL-STD -1782, RFC 854 -TELNET Protocol
  - 6. RFC 950 -Internet Standard Sub-Netting Procedure
  - 7. RFC 1140 -Official Protocol Standards
  - 8. RFC 1156 -MIB Base for IP Networks
  - 9. RFC-1213 -MIB-II
  - 10. RFC-1757 -Remote Monitoring(RMON)
  - 11. 1RFC 1157 -Simple Network Management Protocol
  - 12. RFC 1720 -TCP/IP, OSI Compliant
  - 13. RFC 1918 -Address Allocation for Private Subnets
  - 14. RFC 1583 -OSPF, Version II
  - 15. RFC 1723 -RIP -II
- P. NECA (National Electrical Contractors Association) Standard of Installation.
- Q. BICSI TDM Manual, latest edition
- R. BICSI LAN Design Manual, latest edition
- S. BICSI Cabling Installation Manual, latest edition

## PART 2 STRUCTURED CABLING SYSTEM (SCS) DISTRIBUTION

### 2.1 DEFINITIONS

- A. MAIN DISTRIBUTION FRAME (MDF): The MDF is the location, within a building or complex of buildings, where the entire telecommunications system originates. It may include: the physical location, enclosure, wire and cable management hardware, termination hardware, distribution hardware, and patching and equipment racks.
- B. INTERMEDIATE DISTRIBUTION FRAME (IDF): The IDF is the location in a building where a transition between the backbone or vertical riser system and the individual drop distribution system occurs. It may include: the physical location, enclosure, wire and cable management hardware, termination hardware, distribution hardware, and patching and equipment racks. The IDF's provide the interface location between fiber distribution cable (backbone) and station cable (horizontal distribution). All walls shall be covered with 3/4" plywood, AC or better, from 12" above the finished floor to the ceiling, painted with two coats of fire retardant paint both sides.
- C. Entrance Facility (EF): Existing. Existing MDF room is the entrance facility.
- D. BACKBONE PATHWAY: The Backbone Pathway consists of a series of conduits, surface raceways (renovations only), cable trays, conduit sleeves, and chases which connect the MDF to IDF's and MDF to the EF and the MDF to the Server Room. It generally houses the vertical or backbone system.
- E. BACKBOARD: Backboard generally refers to the plywood sheeting lining the walls of telecommunications facilities. Backboard may also refer to the entire wall-mounted assembly, including wire management, wiring blocks, and equipment racks. In this case, the term Backboard is fully interchangeable with SBB or TTB and the equipment required to fulfill the Scope of Work below.

### 2.2 WORK DESCRIPTION -TYPICAL

- A. CONTRACTOR to provide all infrastructure wiring and conduit (if necessary), between and including classroom faceplate or termination, and closet patch panel termination, all cut sheets for Fiber Optic cable, copper UTP cable, patch panels, station jacks, speakers, phone faceplates, and Wireless Access Point enclosures for approval by SDP Tech Services, all patch cables on both ends of each termination, all Wireless Access Point enclosures for every AP location with the exception of any spaces with a drop ceiling at 12 feet high or less (classrooms, hallways, etc), metal faceplates for all wall phones, material and installation of all speakers, as well as the TERMINATION, LABELING, and TESTING of all copper and fiber wiring.
- B. The work performed under these guidelines shall be of good quality and performed in a workmanlike manner. In this context "good quality" means the work shall meet industry technical standards and quality of appearance. The owner reserves the right to reject all or a portion of the work performed, either on technical or aesthetic grounds. "Rats Nest" wiring and poor workmanship is not acceptable.



## 2.3 MANUFACTURERS

- A. Cat 6 cables and telecommunications outlets shall be equal in quality and performance to that manufactured by SYSTIMAX. Note that other cabling systems meeting the listed performance and warranty requirements are also acceptable substitutions.

## 2.4 FUNCTIONS AND OPERATION

- A. All copper and fiber network cabling shall be labeled on both ends - at the classroom/ workstation termination end, as well as the network closet patch panel termination end. All labels shall be comprised of a sequential numbering scheme that meets TIA/EIA-606 requirements, and shall include room location numbers as described herein.
- B. All labels shall be machine printed on clear or opaque tape, stenciled onto adhesive labels, or type written onto adhesive labels, with legible block characters that are at least one-eighth inch (1/8") in height. The text shall be of a color contrasting with the label such that it may be easily read. If labeling tape is utilized, the width of the tape shall not exceed 3/8".

### CLASSROOM/ WORKSTATION TERMINATIONS

- 1. All copper cable terminations on the classroom/ workstation side shall be labeled in logical order with the respective network closet number, room location number, drop type, and drop number. The numbering and abbreviation scheme shall be as follows:

#### **CLOSET# - ROOM# - TYPE INITIAL - DROP#**

- a. For example, in room 205 there may be 8 Data drops which all terminate in IDF3. Those drops shall be labeled in sequential order as such:
  - i. "IDF3-205-D1"
  - ii. "IDF3-205-D2"
  - iii. "IDF3-205-D3", etc...
- b. If data drops are grouped together on a multi-port faceplate, and label space on each faceplate is limited, the network closet label may be shown once per group, provided that all drops in that group run to the same closet. Using the example above, if the 8 data drops in room 205 are grouped into (2) 4-port faceplates, they shall be labeled as such:
  - i. Faceplate 1 label: "IDF3"
    - 1. Data drop 1: "205-D1"
    - 2. Data drop 2: "205-D2"
    - 3. Data drop 3: "205-D3"

4. Data drop 4: "205-D4"
    - ii. Faceplate 2 label: "IDF3"
      1. Data drop 5: "205-D5"
      2. Data drop 6: "205-D6", etc...
2. Type initials shall be designated as follows:
  - a. Data: "D"
  - b. Wireless: "W"
  - c. Speaker: "S"
  - d. Alarm: "A"
  - e. Voice: Any voice cabling shall not be differentiated from any data cabling, and shall be grouped in with the "D" designation for Data.
3. Room initials for non-numbered locations shall be as follows:
  - a. Auditorium: "AUD"
  - b. Cafeteria: "CAF"
  - c. Gym: "GYM"
  - d. Library: "IMC"
  - e. Hallway: "HALL"
  - f. Main Office: "MO"
  - g. Any other locations not listed here which do not have a numerical room designation shall be abbreviated logically.
4. Other classroom/workstation side labeling examples are as follows:
  - a. 2 WiFi drops at the ceiling of classroom 104, which run back to the MDF: i. "MDF-104-W1" ii. "MDF-104-W2" b. 8 speakers in the Cafeteria, which run back to IDF2: i. "IDF2-CAF-S1" ii. "IDF2-CAF-S2", etc... c. 4 phones in the Main Office, which run back to IDF1: i. "IDF1-MO-D1" ii. "IDF1-MO-D2", etc...

## NETWORK CLOSET TERMINATIONS

1. All cable terminations on the network closet side shall be terminated on patch panels and grouped together by type, as described in the Rack Installation section above.
  - a. All patch panels shall be labeled by drop type in order as follows:
    - i. "OUTSIDE FIBER" (if applicable - only in MDF)
    - ii. "FIBER"
    - iii. "LEGACY TIE CABLES"
    - iv. "WIRELESS"
    - v. "DATA" (Data includes all: network data, voice, speaker, alarm, and headend controller drops.)
  - b. All copper cable terminations on those patch panels shall be labeled in logical order with the respective room location number, drop type,

and drop number. The numbering and abbreviation scheme shall be as follows:

**ROOM# - TYPE INITIAL - DROP#**

2. For example, all non-Wireless copper cabling from classroom 201 and classroom 202, including 4 data drops each, 1 wall phone each, and 1 speaker each, shall be terminated on the DATA patch panel. Those drops shall be labeled sequentially as such:
  - a. "201-D1", "201-D2", "201-D3", "201-D4", "201-D5", "201-S1", "202-D1", "202-D2", "202-D3", "202-D4", "202-D5", "202-S1"
3. Additionally, in that same example, the Wireless Access Point cabling from both classrooms 201 and 202 shall be terminated in the WIRELESS patch panel in that same closet, and labeled sequentially as such:
  - a. "201-W1", "201-W2", "202-W1", "202-W2"

**FIBER TERMINATIONS**

1. Optical fiber cable segments shall be labeled at each end with the respective closet or classroom/lab identifier, as well as the cable type, as follows:

**ROOM# - TYPE INITIAL**

- a. For example, a 24 strand, OM3, 50 $\mu$  Multimode fiber cable between the MDF and IDF1 shall be labeled as follows:
    - i. In the MDF: "IDF1-MM"
    - ii. In IDF1: "MDF-MM"
  - b. For example, a 12 strand, OM3, 50 $\mu$  Multimode fiber cable between the MDF and a computer lab in room# 305 shall be labeled as follows:
    - i. In the MDF: "Lab 305-MM"
    - ii. In the computer lab: "MDF-MM"
  - c. For example, a 24 strand Single mode fiber cable between the MDF and the Annex shall be labeled as follows:
    - i. In the MDF: "Annex-SM"
    - ii. In the Annex: "MDF-SM"
2. Additional fiber cable labeling shall include Warning Tags:

- a. At each location where the fiber cable is exposed to human intrusion, it shall be marked with warning tags. These tags shall be yellow or orange in color, and shall contain the warning: "CAUTION FIBER OPTIC CABLE." The text shall be permanent, black, block characters, and at least 3/16" high.
- b. A warning tag shall be permanently affixed to each exposed cable or bundle of cables, at intervals of not more than five (5) feet. Any section of exposed cable which is less than five (5) feet in length shall have at least one warning tag affixed to it.

**Any additional labeling questions not addressed in this document shall be sent to SDP Tech Services for further clarification**

- C. The intended function of the data communications cable system is to transmit data signals from a central location to several individual data outlet locations. Upon completion of the work outlined in this specification, the system shall be capable of transmitting data signals at a rate of 1000 Mbps minimum over Category 6 cable and over SM and MM fiber. Both SM and MM fiber shall also be capable of transmitting 10Gbps based upon the transmitting distance and number of links.
- D. Work station cable, from the IDF to the work area, shall be installed in accordance with EIA/TIA-568-B.2 specified installation practices, BICSI Guidelines, manufacturer specified installation practices, SYSTIMAX or (Other Acceptable Substitutes) Certified Cabling System installation practices, and shall be capable of transmitting a signal at 1000 Mbps with acceptable attenuation and cross-talk measurements and PSACR MARGIN. The entire workstation cable system, including wiring blocks, cable, and telecommunications outlets shall be tested for Category 6 compliance.

## PART 3 -PRODUCTS AND INSTALLATION

### 3.1 GENERAL

- A. Throughout Part 3, material quantities are not given. It is the responsibility of the Contractor to provide appropriate quantities of materials to provide a complete, functional system according to the design drawings, specifications, and work description.
- B. General installation provisions are as follows:
  1. Cable: Where cable enters an MDF or IDF it shall be supported on horizontal or vertical cable runway. If terminations are on backboards, then from the runway support to the backboard via "D" Rings and cable ties. All cable shall be neatly bundled, combed, and tied. All cable runs, within the MDF or IDF, shall be horizontal or vertical, and bends shall comply with minimum specified cable bending radii. Copper UTP cable runs shall be provided with a ten-foot slack loop in the cable runway, in each IDF. Spread out the Cat. 6 cable in the runway and cable trays to avoid heavy stressing of the cable due to its own weight. Provide sufficient slack in

- the run to avoid any cinching of cables. NOTE CAT.6 CABLES SHALL NOT BE CINCHED TOO TIGHTLY. CABLE TIES AT PATCH PANEL LOCATIONS SHALL BE VELCRO TYPE TIE-WRAPPS ONLY. PLASTIC WIRE TIE WRAPS ARE NOT ALLOWED TO BE USED FOR ANY CAT.6 CABLING.
2. Labeling: hand written labels are not acceptable. All labels shall be machine printed on clear or opaque tape, stenciled onto adhesive labels, or type written onto adhesive labels. The font shall be at least one-eighth inch (1/8") in height, block characters, and legible. The text shall be of a color contrasting with the label such that it may be easily read. If labeling tape is utilized, the width of the tape shall not exceed 3/8," and the font color shall contrast with the background. Patch panels shall exhibit workstation numbers, in sequential order, for all workstations served by the MDF or IDF.
    - a. Each telecommunications outlet shall be labeled with its respective workstation number (machine labels only). Workstation numbers shall be comprised of a sequential numbering scheme that meets the TIA/EIA-606 requirements, i.e. "1-1-DJ-52"(IDF #1-rack 1-data patch panel-port #52); or"1-2-VJ-48" (IDF #1-rack 2-voice patch panel-port# 48). Each workstation cable shall be labeled, using a machine based net permanent labeling medium, at each end with its respective workstation number. Each binder group shall be tied off with its respective identifying ribbon at each break-out point.
  3. T-Bar Suspended Ceilings: All data drop cable above dropped ceilings shall be installed in J-hooks, cable tray, or a combination thereof, conduit, or in cable chase. In no case shall cable be supported on ceiling tiles, T-bars, or tie-wrapped to any conduit or pipes. Cable must be supported in all areas. Bridle rings and tie-wrapped supporting means are not acceptable. Wire-rod cable trays are acceptable above dropped ceilings in-lieu of J-hooks. Laying cable on a T-bar ceiling is not allowed by the NEC and is not acceptable for support of Cat. 6 cabling, j-hooks must be used between conduit stub-ups and the wire rod cable tray for support.

### 3.2 WORK STATION CABLE

- A. DESCRIPTION: From each IDF, 4-pair Category 6 UTP cables shall be routed to each work station (for both data and voice outlets) served by the IDF. Where the data outlet resides in a classroom, a minimum of 6 cables plus one voice drop shall be required Route drops in, conduit, j-hooks, and /or chases and sleeves as required.
- B. COPPER UTP CABLE SPECIFICATIONS
  1. HIGH SPEED LAN COMMUNICATIONS PLENUM CABLE; ENHANCED MARGIN CATEGORY 6, HORIZONTAL UNSHIELDED TWISTED PAIR (UTP).

### C. SCOPE

1. This section defines the requirements for commercially available high-performance Category 6 plenum-rated LAN communications cable. The cable design described herein exceeds minimum ANSI/TIA/EIA 568-B Category 6 and ISO/IEC 11801 Class D standards in critical transmission characteristics and provides additional specifications for conductor insulation. This specification provides more ACR margin (headroom) at transmission frequencies up to 200 MHz, better electrical balance, and temperature/humidity stability for superior long-term performance. (NOTE: Minimum cable fire-rating shall be CMR; plenum rating only as required if returns are ducted; however, 100% FEP cable must be supplied).
  - a. The minimum Power Sum ACR, for the Worst Case Pair for a 4-Connector Channel shall be 10.9dB at 200 MHz.

## 2. ENGINEERING SPECIFICATIONS

- a. Cable Manufacturers' Part Numbers:
  - 1) SYSTIMAX # 2071E GigaMax Cable & Gigamax Cabling System-Preferred
  - 2) Mohawk/CDT: AdvanceNet with Hubbell NEXTSPEED
  - 3) Berk-Tek: LanMark 2000 with Ortronics Clarity
  - 4) Superior Essex: NextGain with Leviton eXtreme
  - 5) Commscope : Ultrapipe with Siemon Ultra-"Uniprise Solution"
- b. Product: Jack Faceplates (WAO's) 4 pair, S110 connecting blocks, T568B pinning, Category 6 compliant, light Ivory or as selected by SDP:
  - 1) Modular Outlet Jacks: SYSTIMAX MGS-400 Series jacks in M-Series Information Outlets, 8 wire, T568B pinning, Category 6 S110 type insulation displacement modular outlet. Provide couplers as required per application and drawings.
  - 2) Faceplates: CommScope M10LW4SP 1-port Single Gang Stainless Steel Telephone Faceplate, part #760100891
- c. Accessories: Snap-in colored icons, blue for data and light gray for voice, 'phone' for voice and 'computer' for data/video, labels and clear label covers, quantities as required
  - 1) Required Accessories and Quantities (Surface Mount Boxes):
  - 2) Modular Mounting Frames: SYSTIMAX. PART #M12AP-246, Two-port, with cover, base, bezel, icons, screws, Light Ivory – surface mount with

screws.

- 3) Modular Mounting Frames: SYSTIMAX, PART #M14L-246, Four-port, with cover, base, bezel, icons, screws, Light Ivory – surface mount with screws.
- 4) Modular Mounting Frames: SYSTIMAX, PART #M16L-246, Six-port, with cover, base, bezel, icons, screws, Light Ivory – surface mount with screws.
- 5) Modular Outlet Jacks: SYSTIMAX M-Series Information Outlets or Flexible Information Outlets for HI-LO outlets and/or A/V outlets, 8 wire, T568B pinning, Category 6 S110 insulation displacement type modular outlet. Provide couplers as per application and drawings.

- a) SYSTIMAX MGS400 Category 6 jack
- b) single port F-type coaxial adapter
- c) blank inserts for unused port
- d) Icons same as surface raceway jacks

### 3. INSTALLATION:

- a. Installation shall be conducted in accordance with guidelines established the manufacturer and industry standards. Surface raceway jack faceplates shall be mounted in the surface raceway hanging boxes and shall be coordinated by the installation contractor. Each jack faceplate plate shall be labeled with its respective work station number. Each modular surface mounted box shall be labeled with its respective work station number. Labels shall be made by machine and shall be compliant with TIA/EIA-606 requirements.

## D. TESTING AND DOCUMENTATION

### 1. TESTING:

- a. Contractor shall test each pair of each twisted-pair copper cable. The Owner reserves the right to have a representative present during all or a portion of the testing process. If the Owner elects to be present during testing, test results will only be acceptable when conducted in the presence of the Owner.
- b. Tests
  - 1) Multi-mode: Signal attenuation at 850 and 1300 nm.
  - 2) Single-mode: Bi-directional signal attenuation at 1310 and 1550 nm.

## E. WORKSTATION CABLE:

1. Each workstation cable shall be tested from the Jack Panel to the data outlet per TIA/EIA-568-B2.1 permanent link test requirements.

- a. Test Equipment: Minimum Level III Compliant Tester
  - 1) Wirescope 350(Agilent Technologies) or equivalent
    - a) Test Criteria: The system shall be tested to Category 6 TIA/EIA-568-B.2-1 permanent link test parameter requirements.

F. DOCUMENTATION:

1. Contractor shall provide documentation to include test results and as-built drawings, all test results shall be computer generated. One Hard Copy shall also be provided to the District. Software for viewing the test results shall also be provided in the soft copy package.

G. WORK STATION CABLE:

1. The results of the work station cable tests shall be provided in the form of computer print-outs from the test equipment.

H. AS-BUILT DRAWINGS:

1. Contractor will be provided with clean copies of the Electrical drawings depicting data outlet locations or, if required by Addendum, shall produce drawings depicting data outlet locations as they were installed. The drawings, provided by Owner or in accordance with Addendum shall be modified to indicate actual cable routing, work station locations and workstation numbers.

3.3 INSTALLATION TESTING - COPPER

- A. The Owner/Engineer shall be notified 2 weeks prior to any testing so that the testing may be witnessed.
- B. Before requesting a final inspection, the Contractor shall perform a series of end to end installation performance tests. The Contractor shall submit for approval a proposal describing the test procedures, test result forms, and timetable for fiber optic and all copper plant wiring.
- C. Acceptance of the simple test procedures discussed below is predicated on the Contractor's use of the recommended products including but not limited to twisted pair cable, cross-connect blocks, and outlet devices specified and adherence to the inspection requirements, and practices set forth. Acceptance of the completed installation will be evaluated in the context of each of these factors.
- D. Minimum Test Parameter requirements for Enhanced Category 6 horizontal cabling.
  1. Category 6:
    - a. Each wire/pair shall be tested at both ends for the following utilizing Contractor generated test results forms:



- 1) Wire Map
  - 2) Length
  - 3) Insertion Loss
  - 4) Near-end crosstalk (NEXT) loss
  - 5) Power sum near-end crosstalk (PSNEXT)
  - 6) Equal-level far-end crosstalk (ELFEXT)
  - 7) Power sum equal-level far-end crosstalk (PSELFEXT)
  - 8) Return loss
  - 9) Propagation delay
  - 10) Delay Skew
  - 11) Power Sum ACR
2. When errors are found, the source of each error shall be determined, corrected, and the cable re-tested. All defective components shall be replaced and retested. Defective components not corrected shall be reported to the Owner/Engineer with explanations of the corrective actions attempted.
  3. Test records shall be maintained using the approved test results forms. The form shall record closet number, riser pair number or outlet ID, outcome of test, indication of errors found (e.g., a, b, c, d, or e) cable length, re-test results after problem resolution and signature of the technician completing the tests.
  4. Test results for each 4 pair, Category 6, UTP cable must be submitted with identification to match labels on all patch panel ports and 8 position modular jacks, and identification to match as-built associated with that cable.
  5. Owner/Engineer will observe and verify the accuracy of test results submitted.
  6. Submit in both hardcopy and electronic floppy disc format.

#### E. ACCEPTANCE

1. Acceptance of the Data Communications System, by Owner, shall be based on the results of testing, functionality, and the receipt of documentation. With regard to testing, all fiber segments and all workstation data cables must meet the criteria established in the Section above. With regard to functionality, Contractor must demonstrate to Owner that 1000 Mbps data signals can be successfully transmitted, bi-directionally, from the MDF to and from a minimum of 10% of individual data outlets on each floor, witness tested by the Owner. The number of outlet locations to be tested shall be determined by Owner. With regard to documentation, all required documentation shall be submitted to Owner.

#### F. MINIMUM WARRANTY

1. The Cabling System shall meet the performance requirements of the ANSI/TIA/EIA-568-B.2 standard. The warranty on the material, services, and operation of the cabling system to this specification must be for a period of at least 20 years. The connecting hardware shall have a lifetime extended warranty against defects in material and workmanship.
2. The warranty must include the following statements regarding the cabling system:
  - a. "Will support and conform to TIA/EIA-568-B specifications covering ANY CURRENT OR FUTURE APPLICATION which supports transmission over a properly constructed horizontal cabling system premises network which meets the channel and/or basic link performance as described in TIA/EIA- 568-B."
  - b. "Will be free from defects in material or faulty workmanship."

#### PART 4 -VOICE DISTRIBUTION

##### 4.1 GENERAL

###### A. PERFORMANCE REQUIREMENTS

1. The Telephone Voice Distribution System shall be provided from the outlet locations to the IDF's with Cat.6 station cabling.

##### 4.2 PRODUCTS AND INSTALLATION

A. General: Refer to the requirements and equipment outlined in this guideline specification.

B. Miscellaneous Hardware: Provide all terminations, cross-connects, wire management, surge protectors, etc. for a complete and operational system.

1. Jacks, wall mount only, EIA/TIA 568B Pin-out, Cat. 6; provide wall mount typejacks with studded mounts for locations as required – Classrooms shall be located in the recessed wall box enclosure-see module details
2. Auxiliary Equipment: The Contractor shall install cross-connect wire (minimum Cat. 3 rated), D-rings, wire distribution spools, 110 block labeling, organizer rings, and other appurtenances for a complete, neat, and functional system.

###### C. RECORD DRAWINGS

1. The Contractor shall submit record drawings showing the actual system installation and the hardware/equipment locations. Clearly drafted markings on the Bid Documents attached Drawings shall be acceptable. These drawings shall indicate actual cable routing, cable numbers, outlet jack labeling, and designations of each termination at outlets and in the IDF's/MDF. Also included shall be the test report.

#### PART 5 -CABLE AND WIRE MANAGEMENT

##### 5.1 GENERAL

- A. Unless indicated all data and voice cables shall be installed in conduit.
- B. Cabling, voice and data shall be installed according to the general requirements, as detailed below, and as shown on the drawings or in an attached addendum.
  - 1. No more than 50 UTP cable drops per run can be installed in Category 6 two inch "J-hooks" as called out herein (if necessary).
  - 2. Station Cable drops from work area outlet will be installed in conduit, Category 6 "J-hooks," from outlet stub up to the cable tray.
  - 3. Use Vertical Wire runway to support any /all risers between floors in closets or accessible locations; in no case shall any cable risers be unsupported.
  - 4. Cables entering IDF's/MDF's shall be supported with Cable runway from entrance to rack/cabinet location.

## PART 6 -CORING/SLOTTING/SLEEVING

### 6.1 SLEEVES:

- A. All wall penetrations shall be bored, and then sleeved; minimum is 1-inch metallic sleeve with plastic bushings or as required to size up. All floor penetrations shall be core drilled clean and true, and then installed with a metallic sleeve and plastic bushings on each side.
- B. The Contractor shall provide sleeves where required to protect equipment or facilities in the installation. Each sleeve shall extend through its respective floor, wall, or partition and shall be cut flush with each surface unless otherwise required.
- C. Sleeves in bearing and masonry walls, floors, and partitions shall be of standard weight steel pipe finished with smooth edges. For other masonry partitions, through suspended ceilings and for concealed vertical piping, sleeves shall be No. 22 U.S.G. galvanized iron.
- D. All sleeves shall be properly installed and securely cemented in place.
- E. Floor sleeves shall extend 3 inches above the finished floor. Space between floor sleeves and passing conduit shall be caulked with graphite packing and waterproof caulking compound as required for a waterproof installation. All floor sleeves shall be installed with plastic bushings to protect the cable, on both sides.
- F. Where conduits pass through waterproofed floors or walls, design of sleeves shall be such that waterproofing can be flashed into and around the sleeves.
- G. Sleeves through exterior walls below grade shall have the spaces between conduit and sleeve caulked watertight.
- H. Core drill one size larger than sleeve to accommodate the sleeve installation, caulk the void with watertight and fire rated sealing mastic (between bore and sleeve).

### 6.2 CHASES AND OPENINGS

- A. All openings or chases required for the installation of the telecommunications work in the building shall be provided by the Contractor.

- B. This Contractor shall seal all openings he has made in fire rated floors, ceilings or partitions after his work has been installed. The material used for sealing the openings shall have a fire rating equal to or greater than the rating of the floor, ceiling or partition material. All fire stop material shall be U.L. classified. Fire stop sealants, foams and compounds shall be as manufactured by 3M, STI, or Nelson. All floors minimum 2-hour rated fire stops and all corridor penetrations to classrooms or other areas.
- C. All Corridor Walls shall be considered fire rated and shall have a two-hour fire stop also- the Contractor has the option to install a UL Classified Sleeve/Firestop Combination, for wall and floor applications; use the STI "EZ-PATH" System, 1.5" for corridor penetrations to classrooms and 4" for floors for risers and 4" for entering IDF's/MDF's from the corridor.

SEAL:

Name: Kevin Roy Goodhall DATE 10/22/1996 STATE AND LICENSE NO: RA014783X

ARCHITECT: GODSHALL KANE O'ROURKE ARCHITECTS, LLC (SKO ARCHITECTS) 300 BROOKSIDE AVENUE - BLDG. 18 - SUITE 150 AMBLER, PA. 19002 Phone: 215.646.2003 Email: ALLISON@GKOARCHITECTS.COM ATRN: ALLISON KUNGLER, RA

MECHANICAL / PLUMBING / ELECTRICAL ENGINEER: PSQUARED CONSULTING ENGINEERS 920 GERMANICHTOWN PIKE, SUITE 200 PLYMOUTH MEETING, PA 19462 Phone: 484.539.9457 Email: GOPI.PATEL@PSQUAREDENGINEERING.COM ATRN: GOPI PATEL

ISSUE FOR BID 01/14/2022

Table with 2 columns: NO., DATE REVISION. Row 1: 1, 2.17.2022, ADDENDUM 1. Row 2: 2, , . Row 3: 3, , . Row 4: 4, , . Row 5: 5, , . Row 6: 6, , . Row 7: 7, , . Row 8: 8, , . Row 9: 9, , . Row 10: 10, , .

SCHOOL & LOCATION FRANCIS HOPKINSON SCHOOL 1301-31 E LUZERNE STREET PHILADELPHIA, PA 19124

PROJECT TITLE CLASSROOM MODERNIZATION

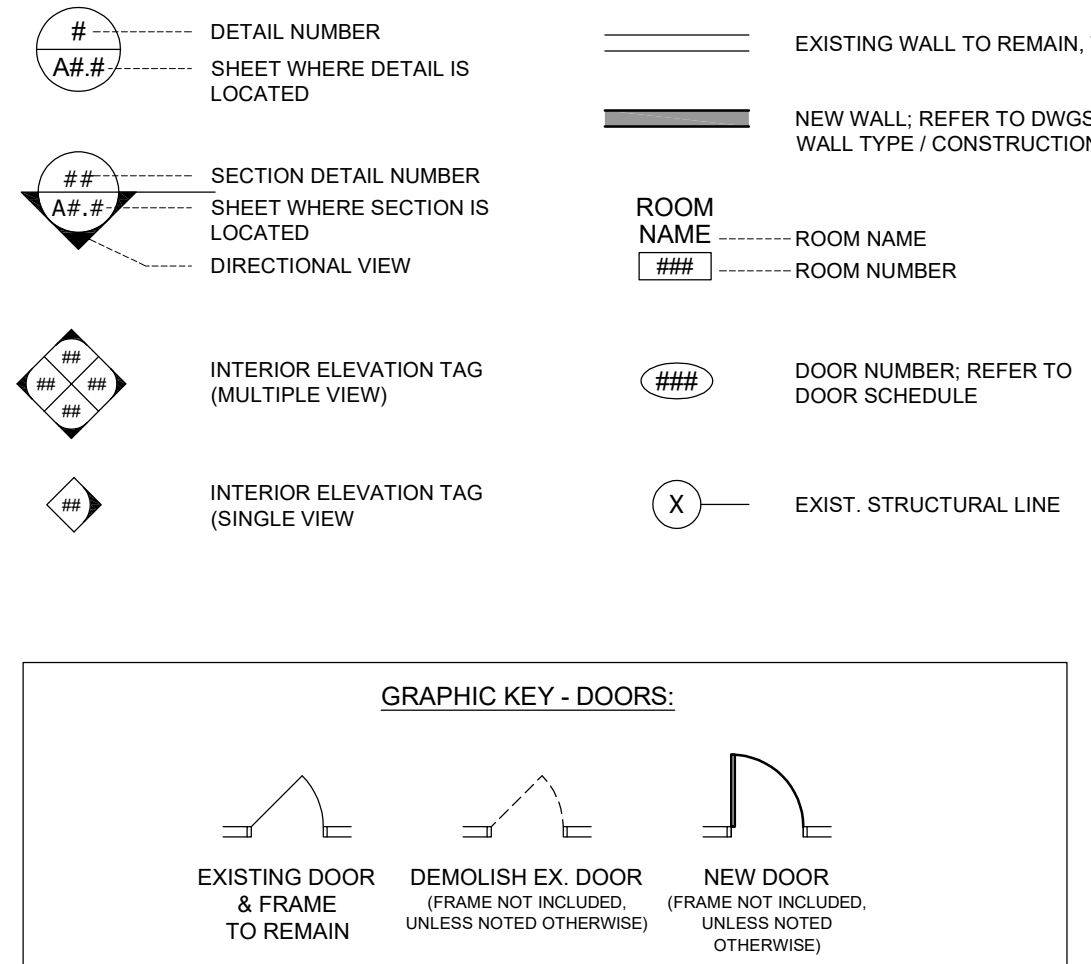
DRAWING TITLE GENERAL INFORMATION

Table with 2 columns: LOCATION NO., CHECKED BY. Row 1: #####, KG. Row 2: DRAWN BY AK / AW, CHECKED BY KG. Row 3: GC - 2022-006-G, FC - 2022-006-F, EC - 2022-006-E.

TAGS - INTERIOR ELEVATIONS: Table with TAG, DESCRIPTION, and TAGS. Includes items like CERAMIC TILE, FINISHED END OF CASEWORK, INTERACTIVE WHITE BOARD, MECHANICAL DEVICE, MARKERBOARD W/ ALUMINUM FRAME, etc.

TAGS - TOILET ROOM & CLASSROOM ACCESSORIES: Table with TAG, DESCRIPTION, and TAGS. Includes items like GRAB BAR, HYDRATION STATION, HAND SANITIZER, MIRROR, PAPER TOWEL DISPENSER, SOAP DISPENSER, TOILET PAPER DISPENSER.

FLOOR PLAN SYMBOLS LEGEND:



DEMOLITION PLAN (REF. A-110 & A-111) DEMOLITION / REFURBISHMENT KEYNOTES: Table with X##, DEMOLITION - GENERAL, DEMOLITION - CEILING, DEMOLITION - EQUIPMENT, DEMOLITION - FLOOR, and DEMOLITION - REMOVAL.

FLOOR PLAN - KEYNOTES: (REF. A-110 & A-111) Table with A##, KEYNOTES. Includes items like WINDOW AC UNIT BY EC, PROVIDE RADIATOR COVER, PROVIDE OPEN-BACK UNIT, etc.

GENERAL FLOOR PLAN NOTES:

- 1. REFER TO SHEET A-004 FOR COMMON ABBREVIATIONS AND SYMBOLS LIST.
2. ALL DIMENSIONS ARE TO FINISH FACE OF PARTITION, UNLESS NOTED OTHERWISE (U.N.O.).
3. ALL NEW WALLS SHALL TYPICALLY ALIGN WITH EXISTING ADJACENT WALL SURFACE...
4. AT ALL EXISTING MB, TB, AND CB LOCATIONS TO REMAIN, U.N.O. GC SHALL PROTECT EXISTING UNITS, PREP/TAPE, AND PAINT AROUND ALL ITEMS SHOWN ON PLAN UNLESS SPECIFICALLY LABELED OTHERWISE.
5. INSTALL HEAVY DUTY CORNER BEAD AT ALL OUTSIDE GWB CORNERS.
6. AT ALL EXISTING FIRE EXTINGUISHERS TO REMAIN, TEMPORARILY REMOVE EXTINGUISHER AND PROPERLY STORE FOR DURATION OF RENOVATION PHASE...
7. GC TO REMOVE AND REINSTALL EXISTING MOVABLE SHELVING FOR ALL ROOMS THAT RECEIVE NEW FINISHES...
8. MB AND TB UNITS ARE SCHEMATICALLY LOCATED ON FLOOR PLANS...
9. REFERENCE FINISH PLANS FOR DESCRIPTION OF 'REFINISHING' OF EXISTING WOODWORK...
10. EXISTING DOORS TO BE MODIFIED (IF NECESSARY) TO ALLOW FOR PROPER FIT WITHIN THE EXISTING FRAME...

GENERAL DEMOLITION NOTES:

- 1. WHEN DEMOLISHED ITEM REVEALS EXISTING CONSTRUCTION TO REMAIN, CONTRACTOR SHALL PATCH TO MATCH EXISTING ADJACENT CONSTRUCTION TO REMAIN AT REMOVED ITEM...
2. DASHED LINES TYPICALLY REPRESENT ITEMS TO BE DEMOLISHED. REFER TO KEYNOTES FOR ADDITIONAL INFORMATION AND INSTRUCTION.
3. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION ITEMS NOT INDICATED ON THIS PLANS.
4. DEMOLITION KEYNOTES SHOWN BELOW ROOM TAG DESIGNATIONS OR CENTERED IN ROOM SHALL APPLY TO ENTIRE ROOM, UNLESS NOTED OTHERWISE.
5. PROVIDE PROPER PROTECTION FOR ALL SURFACES TO REMAIN DURING CONSTRUCTION.
6. ADDITIONAL DEMOLITION WORK IS DOCUMENTED ON THE INTERIOR ELEVATIONS. REFERENCE A400 SERIES SHEETS FOR DEMOLITION WORK THAT IS A PART OF THIS CONTRACT.
7. WHEN EXISTING WOOD TRIMS ARE TO BE REMOVED, WHERE POSSIBLE, SALVAGE PROFILES FOR RE-USE AT LOCATIONS WHERE NEW PROFILES TO MATCH EXISTING ARE INDICATED.

GENERAL NOTES - CONSTRUCTION:

- 1. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND RECORDING OF ALL EXISTING BUILDING DIMENSIONS AND CONDITIONS RELATED TO THE WORK...
2. BEFORE THE START OF WORK, CONTRACTOR IS RESPONSIBLE TO REVIEW WITH THE OWNERS REPRESENTATIVE ALL ITEMS REQUIRING REMOVAL...
3. CONTRACTOR IS RESPONSIBLE TO VISUALLY INSPECT THE STRUCTURAL INTEGRITY OF ALL EXISTING ITEMS...
4. CONTRACTOR IS RESPONSIBLE TO COORDINATE LOCATION OF MEP EQUIPMENT...
5. CONTRACTORS SHALL REFERENCE ENVIRONMENTAL DOCUMENTS PROVIDED BY THE SCHOOL DISTRICT OF PHILADELPHIA...
6. WALL INFILL - GENERAL: WHERE EXISTING WALL OPENINGS ARE INDICATED TO BE CLOSED...
7. LEVEL OF QUALITY - GENERAL: IN ALL RENOVATED AREAS OF THE WORK...
8. DISTURBED OR INTERRUPTED EXISTING MATERIALS...
9. DISTURBED OR INTERRUPTED EXISTING MATERIALS AS A RESULT OF DEMOLITION...
10. PATCHING HOLES - GENERAL: PATCH ALL HOLES IN FLOORS, WALLS AND CEILINGS...
11. EXISTING SUBSTRATES: PREPARE EXISTING SUBSTRATES TO RECEIVE NEW FINISHES AS INDICATED ON THE ROOM FINISH SCHEDULE.

- 12. AT THE DEMOLITION OF AN EXISTING ITEM: REMOVE ALL TRACES OF THE DEMOLISHED ITEM...
13. AT EXISTING FLOORS: CUT IN PLACE CONSTRUCTION TO RECEIVE NEW WORK...
14. AT EXISTING FLOORS: WHERE WALLS ARE SCHEDULED FOR DEMOLITION...
15. PAINT EXISTING SURFACES - GENERAL: WHERE PATCHING OCCURS IN THE WORK...
16. PAINT CONDUIT: PAINT ALL NEW OR EXISTING PIPING, CONDUIT, ETC. WHERE EXPOSED...
17. PAINT EXISTING METAL SURFACES: AT EXISTING BUILT-IN METAL SURFACES...
18. ELECTROSTATIC PAINT EXISTING METAL SURFACES: AT EXISTING METAL ASSEMBLIES...
19. PAINT EXISTING WOOD SURFACES: AT ALL EXISTING SURFACES TO BE PAINTED INCLUDING BUT NOT LIMITED TO DOORS AND FRAMES...

- ITEMS, EXISTING CHIPPED, DETERIORATED AND UNEVEN EXISTING COATINGS SHALL BE COMPLETELY REMOVED FROM ENTIRE ASSEMBLY...
20. STAIN EXISTING WOOD SURFACES: AT ALL EXISTING SURFACES TO BE STAINED INCLUDING BUT NOT LIMITED TO DOORS AND FRAMES...
21. AT EXISTING CERAMIC TILE: AT DEMOLISHED ITEMS AND DAMAGED AREAS...
22. AT EXISTING CABINETS: TO REMAIN: CLEAN ALL DEBRIS FROM FINISHED SURFACES...
23. INTERACTIVE WHITE/PANEL BOARDS (IWB / IPB): ITEMS ARE TO BE REMOVED AND DISPOSED BY CONTRACTOR...
24. WHERE EXISTING MARKERBOARDS, TACKBOARDS, ETC ARE NOTED TO BE REMOVED...

COMMON SYMBOLS & ABBREVIATIONS:

Large table listing common symbols and abbreviations for construction, including categories like CONCRETE, GALV, MIR, RB, VIF, etc.

SEAL:

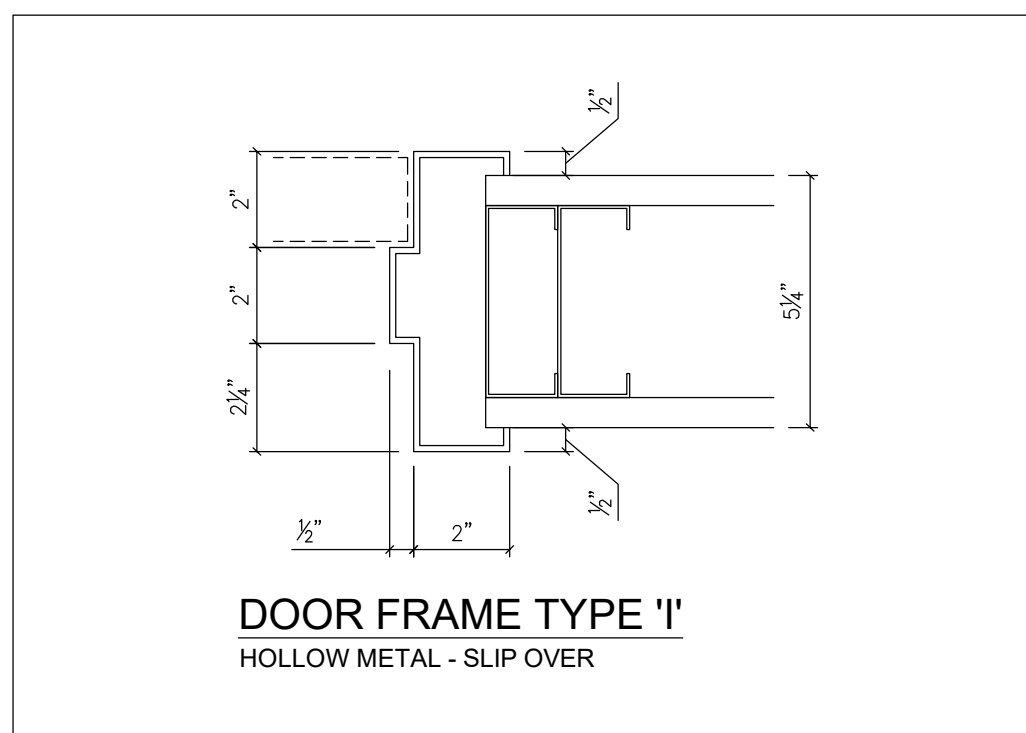
Name: Kevin Ray Goodhall DATE: 10/22/1996  
STATE AND LICENSE NO: RA014763X

ARCHITECT:  
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Email: GOPI.PATEL@PSQUAREDENG.COM  
Atrn: GOPI PATEL

DOOR SCHEDULE

DOOR #	DOOR						FRAME			JAMB	GLAZING	FIRE RATING	PANIC	CLOSER	SIGN	HARDWARE SET (HW#)	REMARKS:
	DOOR SIZE			TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH								
	W	H	THK														
<b>ZONE "A" - MAIN BUILDING - FIRST FLOOR:</b>																	
101	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	EX.	-	-	-	-	HW-A1	1, 3, 5-DG	
101A	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	EX	2, 3X	
101B	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	HW-A2	1, 3, 4, 5-WG	
101C	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	EX	2, 3X, 8	
101D	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	HW-A4	2, 3, REPLACE 'STOP MOLDING'	
102	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	EX.	-	-	-	-	HW-A1	1, 3, 5-DG	
102A	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	EX	2, 3X	
102B	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	HW-A2	1, 3, 4, 9	
102C	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	HW-A3	2, 3	
102D	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	EX	2, 3X	
103	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	EX.	-	-	-	-	HW-A1	1, 3, 5-DG, 6, 11	
103A	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	EX	2, 3X, 8A	
103B	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	EX	2, 3X, 8	
103C	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	HW-A2	1, 3, 4, 9, 11	
103D	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	HW-A3	2, 3, 9	
104	36"	±84"	1 3/4"	(REMARK #12)	STAINED WOOD W/ TEMPERED GLASS	REFINISH EX. WD @ CORRIDOR SIDE; PAINT EX. WD. @ CLASSROOM SIDE			-	-	20 MIN	-	-	-	HW-A1	7, 12, 14	
104A	EX. TO REMAIN				REFINISH EX. WD.		PAINT EX. WD	-	-	-	-	-	-	-	EX	2, 3X, 14	
104B	EX. TO REMAIN				REFINISH EX. WD.		PAINT EX. WD	-	-	-	-	-	-	-	EX	2, 3X, 8, 9, 14	
104C	36"	±84"	1 3/4"	(REMARK #12)	STAINED WOOD W/ TEMPERED GLASS	PAINT EX. WD			-	-	-	-	-	-	HW-A2	7C, 12, 14	
104D	36"	±84"	1 3/4"	(REMARK #12)	STAINED WOOD	PAINT EX. WD			-	-	-	-	-	-	HW-A3	7D, 9, 12, 14	
109	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	EX.	-	-	-	-	HW-A1	1, 3, 5-DG	
109A	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	EX	2, 3X, 8, 9	
109B	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	HW-A2	1, 3, 4	
109C	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	HW-A3	2, 3	
109D	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	EX	2, 3X, 8, 9	
<b>ZONE "A" - MAIN BUILDING - SECOND FLOOR:</b>																	
205	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	EX.	EX.	-	-	-	HW-A1	1, 3, 5-DG, 5-WG	
205A	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	EX	2, 3X	
205B	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	EX	2, 3X, 8	
205C	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	HW-A2	1, 3, 4, 9	
205D	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	HW-A3	2, 3, 5-DG, 9	
205E	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	EX	2, 3X	
206	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	EX.	EX.	-	-	-	HW-A1	1, 3, 5-DG	
206A	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	EX	2, 3X	
206B	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	EX	2, 3X, 8	
206C	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	HW-A2	1, 3, 4, 5-DB	
206D	EX. TO REMAIN				REFINISH EX. WD.		REFINISH EX. WD	-	-	-	-	-	-	-	HW-A3	2, 3, 9	
<b>ZONE "B" - PORTABLE BUILDING:</b>																	
P1	EX. TO REMAIN				EX. HM	PAINT (INTR SIDE)	EX. HM	PAINT (INTR SIDE)	-	-	-	EX	EX	-	EX	(EXTERIOR DOOR)	
P1.1	(2) 30"	84"	1-3/4"	STYLE & RAIL	WD	STAIN	I	HM	PAINT	I	-	-	-	-	HW-B4	13, 10	
P1.2	EX. TO REMAIN				EX. HM	PAINT	EX. HM	PAINT	-	-	-	-	-	-	HW-B2	13	
P1.4	EX. TO REMAIN				EX. HM	PAINT	EX. HM	PAINT	-	-	-	-	-	-	HW-B3	13	
P1A	EX. TO REMAIN				EX. HM	PAINT	EX. HM	PAINT	-	-	-	-	-	-	HW-B1	13	
P2	EX. TO REMAIN				EX. HM	PAINT (INTR SIDE)	EX. HM	PAINT (INTR SIDE)	-	-	-	EX	EX	-	EX	(EXTERIOR DOOR)	
P2.1	(2) 30"	84"	1-3/4"	STYLE & RAIL	WD	STAIN	I	HM	PAINT	I	-	-	-	-	HW-B4	13, 10	
P2.2	EX. TO REMAIN				EX. HM	PAINT	EX. HM	PAINT	-	-	-	-	-	-	HW-B2	13	
P2.4	EX. TO REMAIN				EX. HM	PAINT	EXIST HM	PAINT	-	-	-	-	-	-	HW-B3	13	
P2A	EX. TO REMAIN				EX. HM	PAINT	EXIST HM	PAINT	-	-	-	-	-	-	HW-B1	13	
P3	EX. TO REMAIN				EX. HM	PAINT (INTR SIDE)	EXIST HM	PAINT (INTR SIDE)	-	-	-	EX	EX	-	EX	(EXTERIOR DOOR)	
P3.1	EX. TO REMAIN				EX. HM	PAINT	EXIST HM	PAINT	-	-	-	-	-	-	HW-B3	13	
P3.2	EX. TO REMAIN				EX. HM	PAINT	EXIST HM	PAINT	-	-	-	-	-	-	HW-B1	13	
<b>ZONE "C" - LITTLE SCHOOL HOUSE:</b>																	
L1	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C1	5-DB, 13	
L1-T	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C2	13	
L1-S	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C3	13	
L2	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C1	13	
L2-T	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C2	13	
L2-S	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C3	13	
L3	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C1	13	
L3-T	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C2	13	
L3-S	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C3	13	
L4	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C1	13	
L4-T	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C2	13	
L4-S	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C3	13	
L5	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C1	13	
L5-T	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C2	13	
L5-S	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C3	13	
L6	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C1	13	
L6-T	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C2	13	
L6-S	EX. TO REMAIN				EX. WD	ETR	EX. HM	PAINT	-	-	-	-	-	-	HW-C3	13	



DOOR SCHEDULE (REMARKS/NOTES)

REMARKS/NOTES LEGEND:	
*	INCLUDED IN PROJECT
-	NOT INCLUDED IN PROJECT
1	"REFINISH" EXISTING WOOD DOOR, TRANSOM WINDOW (ABOVE) & PERIMETER WOOD TRIM (REFER TO SHEET A-130 FOR INFORMATION ON REFINISHING EXISTING WOODWORK, DOORS & WINDOWS @ BUILDING ZONE 'A'); AND SECURELY ATTACH EXIST. WOOD "STOP MOLDING" AT PERIMETER OF DOOR OPENING. WHERE STOP MOLDING IS NOTED TO BE REPLACED, PROVIDE SOLID OAK TRIM TO MATCH EXISTING PROFILE (AT ADJACENT DOOR) & "DARK" STAIN OF EXIST. WOOD TRIM. REFERENCE PAINTING SPECIFICATION 09 91 23 FOR MORE INFORMATION.
2	"REFINISH" EXISTING WOOD DOOR & PERIMETER WOOD TRIM (REFER TO SHEET A-130 FOR INFORMATION ON REFINISHING EXISTING WOODWORK, DOORS & WINDOWS @ BUILDING ZONE 'A')
3	PROVIDE NEW HARDWARE - FINISH = SATIN BRASS (#606), TO MATCH EXIST. ORIGINAL HARDWARE, TYPICAL HARDWARE FINISH AT BUILDING ZONE 'A'. REFERENCE DOOR HARDWARE SPECIFICATION 08 71 00 FOR MORE INFORMATION.
3X	REFINISH EXIST. DOOR HARDWARE: CLEAN, TIGHTEN & REPLACE MISSING SCREWS, RE-ALIGN STRIKE PLATE; REPLACE LOCKING CYLINDER.
4	REFINISH ADDITIONAL EXIST. HIGH-WOOD WINDOWS IN COAT CLOSET AREA. CLEAN ALL GLAZING SURFACES. REF. INTERIOR ELEVATIONS FOR LOCATIONS. (REFER TO SHEET A-130 FOR INFORMATION ON REFINISHING EXISTING WOODWORK, DOORS & WINDOWS @ BUILDING ZONE 'A')
5-DB	REPLACE EXISTING STAINED WOOD BEADS AT EX. GLAZING PANELS IN DOOR
5-DG	REPLACE EXISTING TWO (2) GLAZING PANELS AND STAINED SOLID WOOD GLAZING BEADS IN DOOR
5-WG	REPLACE EXISTING GLAZING PANELS AND STAINED SOLID WOOD GLAZING BEADS IN TRANSOMS / HIGH WINDOWS, WHERE INDICATED ON INTERIOR ELEVATIONS
6	REPAIR LATCH SIDE OF DOOR JAMB, FULL HEIGHT OF DOOR & TRANSOM. DISMANTLE (SALVAGE TO BE REINSTALLED) EXIST. WOOD TRIM ON CORRIDOR SIDE. REPLACE WOOD JAMB WOOD STRUCTURE. RE-INSTALL TRIM, FLUSH WITH WALL. REPAIR "NOTCH" IN WOOD DOOR EDGE +/- 2" X 1", STAIN TO MATCH.
7	PROVIDE NEW STAINED WOOD DOOR W/ FIRE RATED GLASS AND HARDWARE; AND NEW STAINED WOOD DR. PANEL INSERT AT TRANSOM OPENING ABOVE. STAIN TO BE "DARK" TO MATCH EXISTING WOOD ON ADJACENT DOORS. REFINISH EXISTING WOOD PERIMETER TRIM AT DOOR & TRANSOM ABOVE, REFER TO REMARK "1" FOR REFINISHING NOTES. HARDWARE FINISH = SATIN BRASS
7C	PROVIDE NEW STAINED WOOD DOOR W/ GLAZING PANELS & HARDWARE. REMOVE STAPLES & DEBRIS FROM EXISTING WOOD PERIMETER TRIM (EST. 100 STAPLES) & RE-PAINT. HARDWARE FINISH = SATIN BRASS
7D	PROVIDE NEW STAINED WOOD DOOR & HARDWARE. REMOVE STAPLES & DEBRIS FROM EXISTING WOOD PERIMETER TRIM & RE-PAINT (EST. 50 STAPLES). HARDWARE FINISH = SATIN BRASS
8	REPLACE SOLID WOOD ASTRAGAL (FULL HEIGHT OF DOOR), MATCH PROFILE OF EXIST.
8A	REPLACE TWO (2) STAINED WOOD SLATS IN EX. WOOD LOUVER (12" WIDE)
9	REMOVE EX. PADLOCK 'HASP' & 'STAPLE'; PATCH & PREP FOR FINISH.
10	STYLE & RAIL WOOD DOORS W/ RECESSED TACKBOARD PANELS; UNDERCUT DOORS 1 INCH ABOVE FINISH FLOOR ELEVATION; REF. INTERIOR ELEVATION #B7 / A-403
11	REPAIR 2"x2" HOLE IN DOOR W/ SOLID OAK INSERT. PATCH, SAND & STAIN ("DARK") TO MATCH EX. WOOD DOOR
12	REF. INTERIOR ELEVATIONS #A33 FOR DOOR TYPE ELEVATIONS FOR CLASSROOM #104.
13	PROVIDE HARDWARE - FINISH = SATIN CHROME STAINLESS STEEL (#630) REFERENCE DOOR HARDWARE SPECIFICATION 08 71 00 FOR MORE INFORMATION.
14	"PAINT EX. WD." - WOODWORK TO RECEIVE PAINT FINISH. PREP WOOD SURFACES SIMILAR TO "REFINISH EX. WD", AND REFER TO SHEET A-130 FOR INFORMATION ON REFINISHING EXISTING WOODWORK, DOORS & WINDOWS @ BUILDING ZONE 'A'

TYPICAL MOUNTING HEIGHTS FOR PLUMBING & TOILET ROOM ACCESSORIES

PLUMBING & TOILET ROOM ACCESSORIES:	ADULT USE - ABOVE FINISHED FLOOR			CHILD USE (AGES 5 - 12)		
	STANDARD DIMENSION (INCHES)	PRIORITY ADA MOUNTING HT. * (SUFFIX 'g')	ACCEPTED ADA DIM. RANGE * (SUFFIX 'g')	STANDARD CHILD DIMENSION (SUFFIX 'c')	PRIORITY ADA MOUNTING HT. * (SUFFIX 'c')	ACCEPTED ADA DIM. RANGE * (SUFFIX 'c')
WATER CLOSET (SEAT HEIGHT)	16"	18"	17"-19"	15"	15"	12"-15" (5-8) 15"-17" (9-12)
TOILET PAPER DISPENSER (SCH. DISTRICT STANDARD - JUNBO ROLL WALL MTD. - OUTLET HEIGHT)	20"	20"	18"-48"	17"	17"	14"-19"
TOILET PAPER DISPENSER (SINGLE ROLL, WALL MOUNT, 8" MAX. HT.) TO BE INSTALLED IN LOCATIONS WHERE "CHILD AGES 5-8 GRAB BARS" MOUNTING HEIGHT IS REQUIRED. * IF GRAB BARS ARE INSTALLED AT MAX. HT. OF 25" AND DISPENSER IS INSTALLED PER ADA MOUNTING HEIGHTS (NOTED IN CHART), THEN REMAINING CLEARANCE FOR TOILET PAPER DISPENSER IS 8" MAX. SCHOOL DISTRICT STANDARD FIXTURE IS 12 1/2" HIGH.	-	-	-	-	-	BOTTOM OF DISP. 14" MIN. ABOVE FINISHED FLOOR WITH TOP OF DISP. 1" MIN. CLEARANCE FROM UNDERSIDE OF GRAB BARS ABOVE.
TOILET GRAB BAR (HORIZONTAL BACK & SIDE - HEIGHT TO TOP OF BAR)	-	35"	33"-36"	-	25"	20"-25" (5-8) 25"-27" (9-12)
TOILET GRAB BAR (VERTICAL SIDE - HEIGHT TO BOTTOM)	-	40"	39"-41"	-	29"	21"-30"
PAPER TOWEL DISPENSER (SURFACE MTD. - HEIGHT TO OPERATING MECHANISM)	42"	42"	34"-48"			

SEAL:

Name: Kevin Ray Godshall DATE: 10/22/1996  
STATE AND LICENSE NO: RA014783X

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ISSUE FOR BID  
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NO. DATE REVISION

SCHOOL & LOCATION  
**FRANCIS HOPKINSON SCHOOL**  
1301-31 E LUZERNE STREET  
PHILADELPHIA, PA 19124

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**DEMOLITION & FLOOR PLANS - ZONE 'A'**

DRAWING SCALE

LOCATION NO.  
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DRAWN BY  
AK / AW

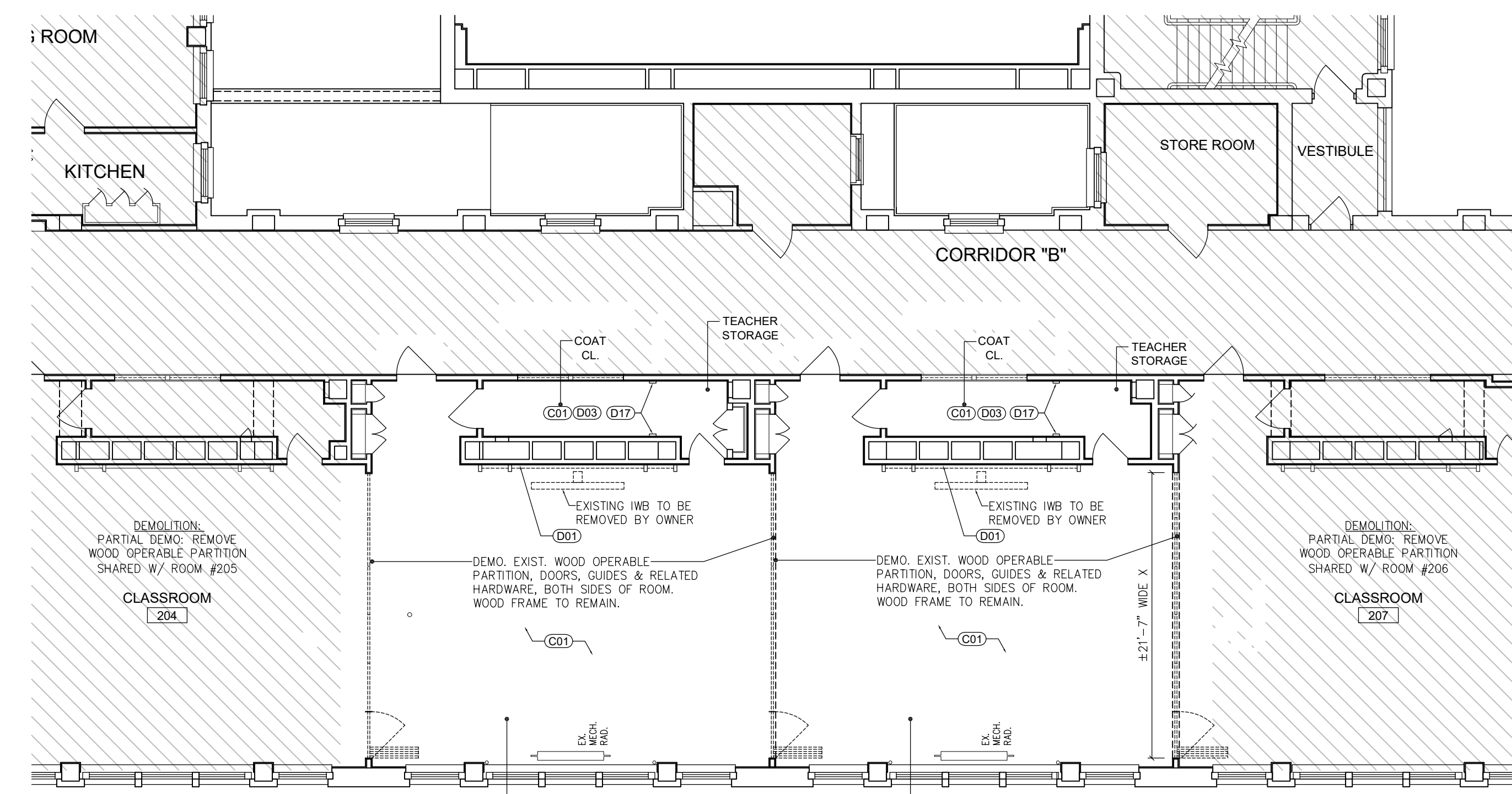
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GC - 2022-006-G  
FC - 2022-006-F  
EC - 2022-006-E

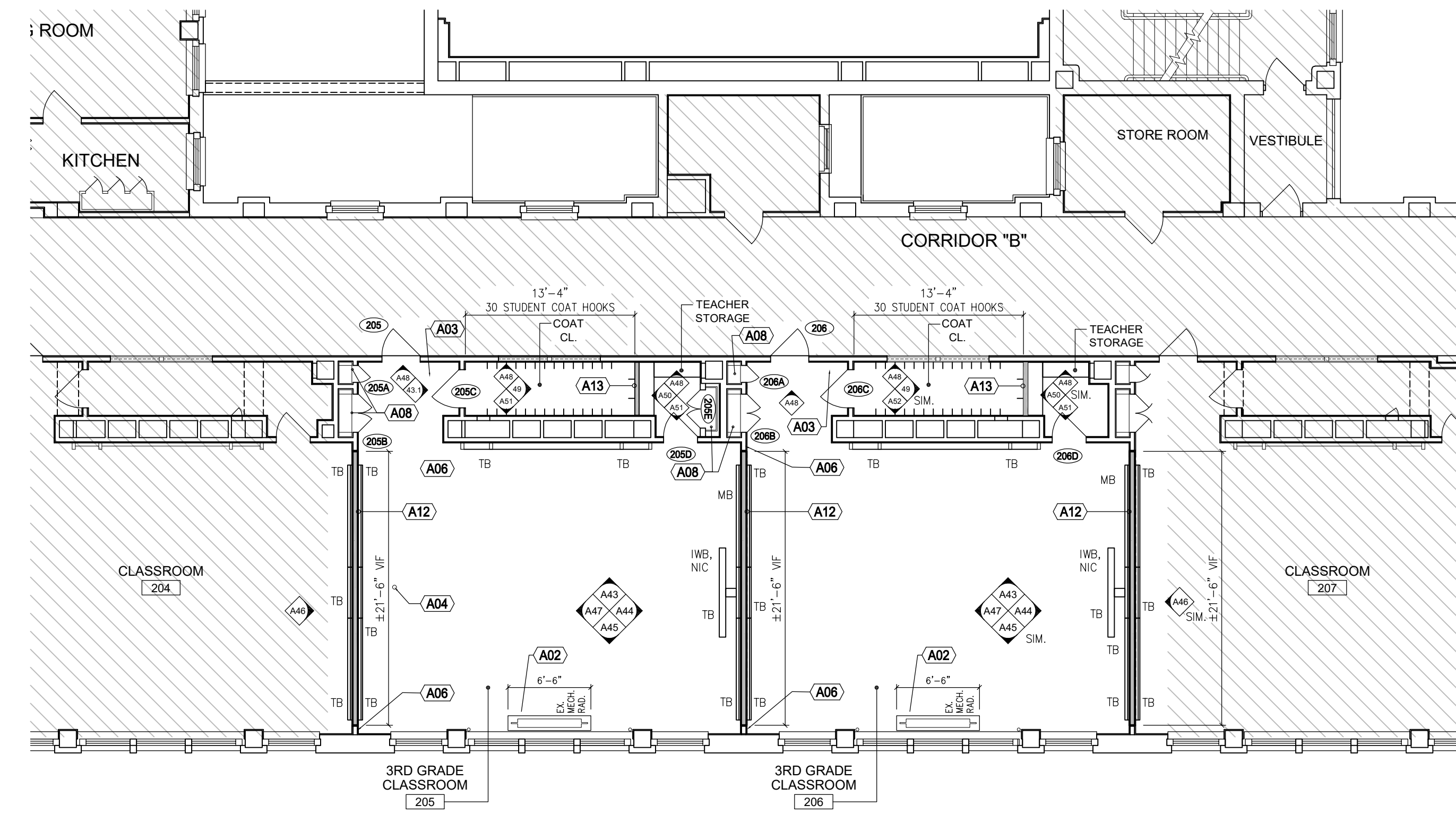
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**A - 110**

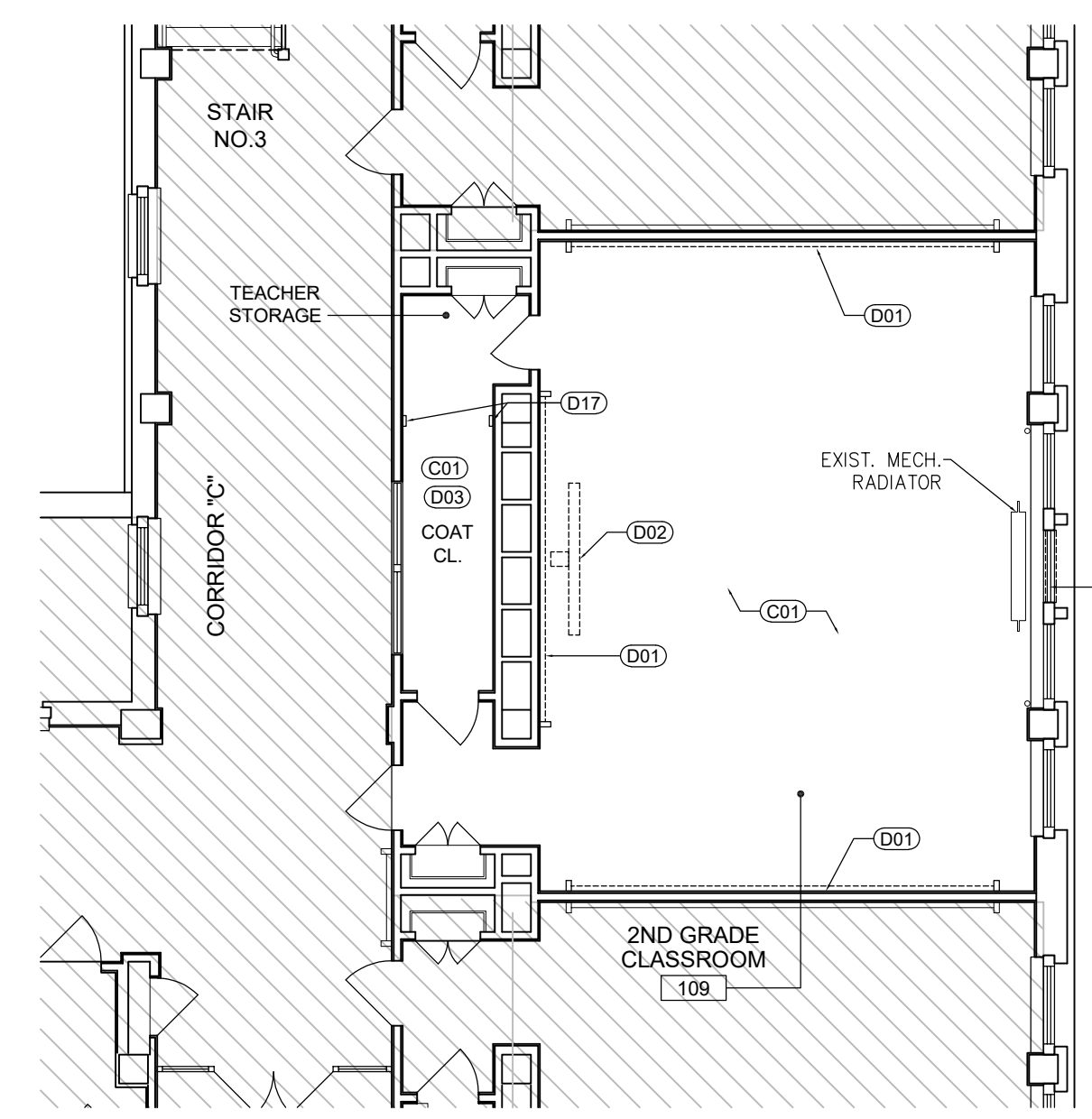
SHEET 6 OF 35



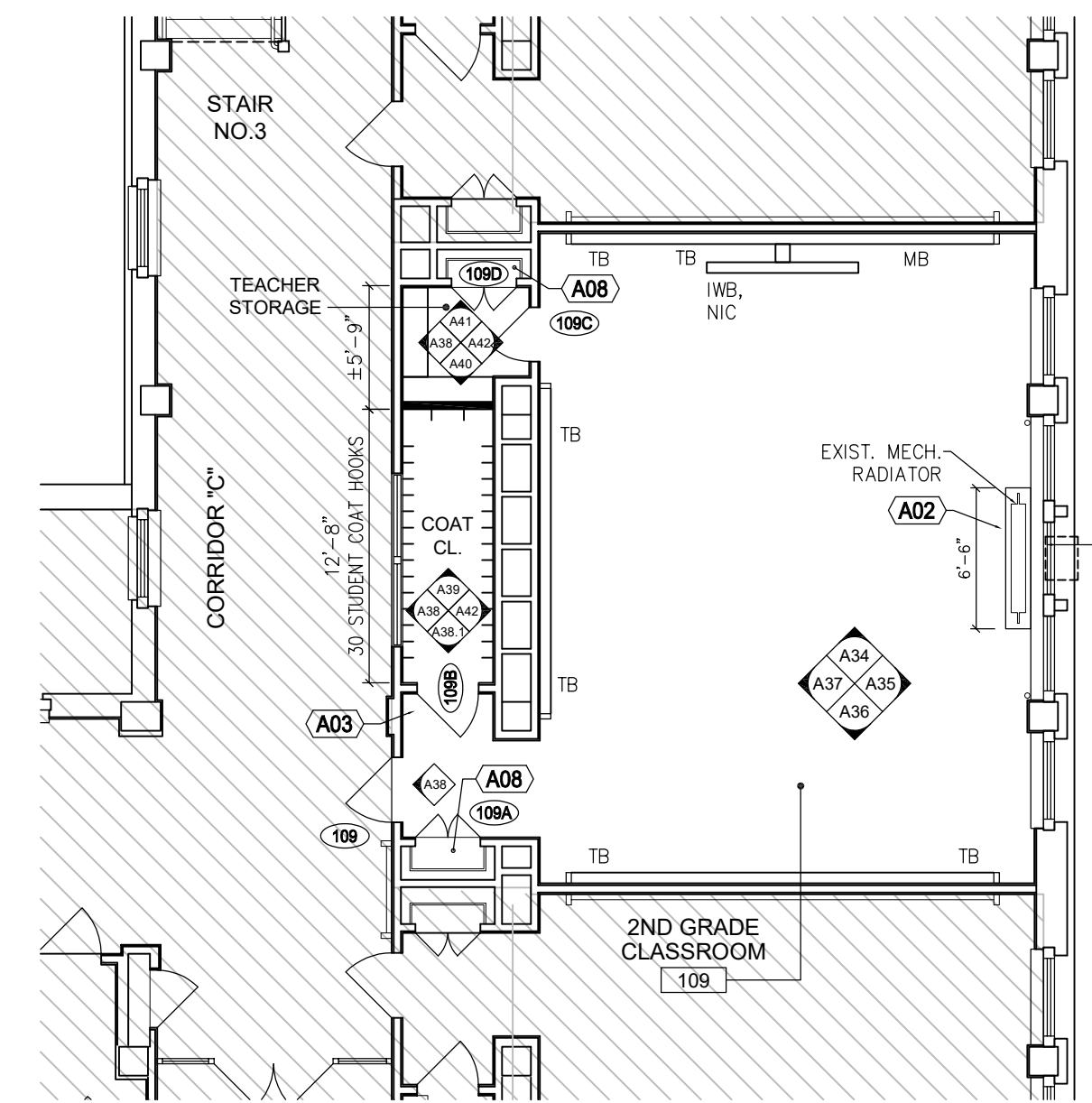
3 DEMOLITION PLAN - 2ND LEVEL - PARTIAL ZONE 'A'  
A-110 SCALE: 1/8" = 1'-0"



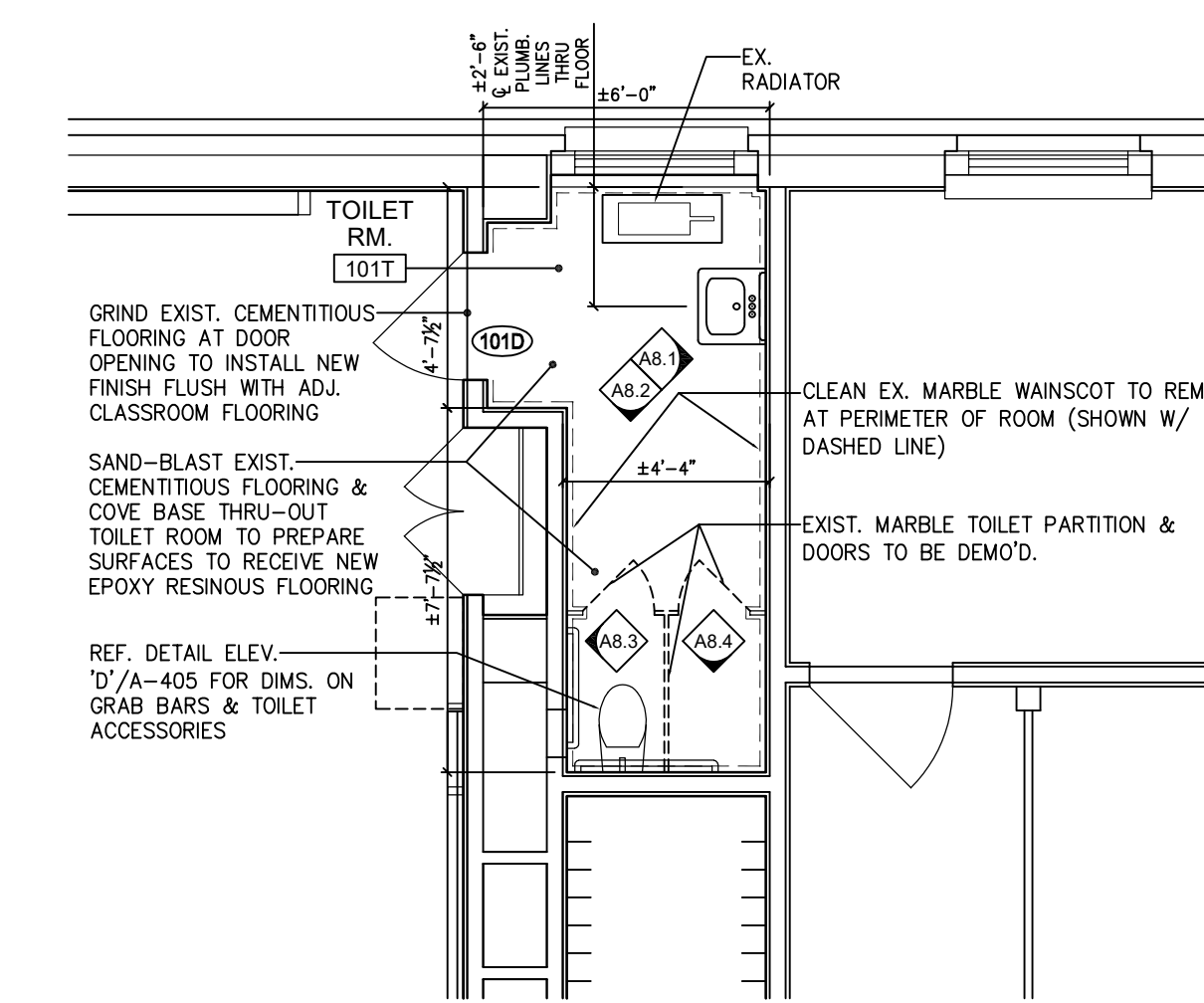
6 FLOOR PLAN - 2ND LEVEL - PARTIAL ZONE 'A'  
A-110 SCALE: 1/8" = 1'-0"



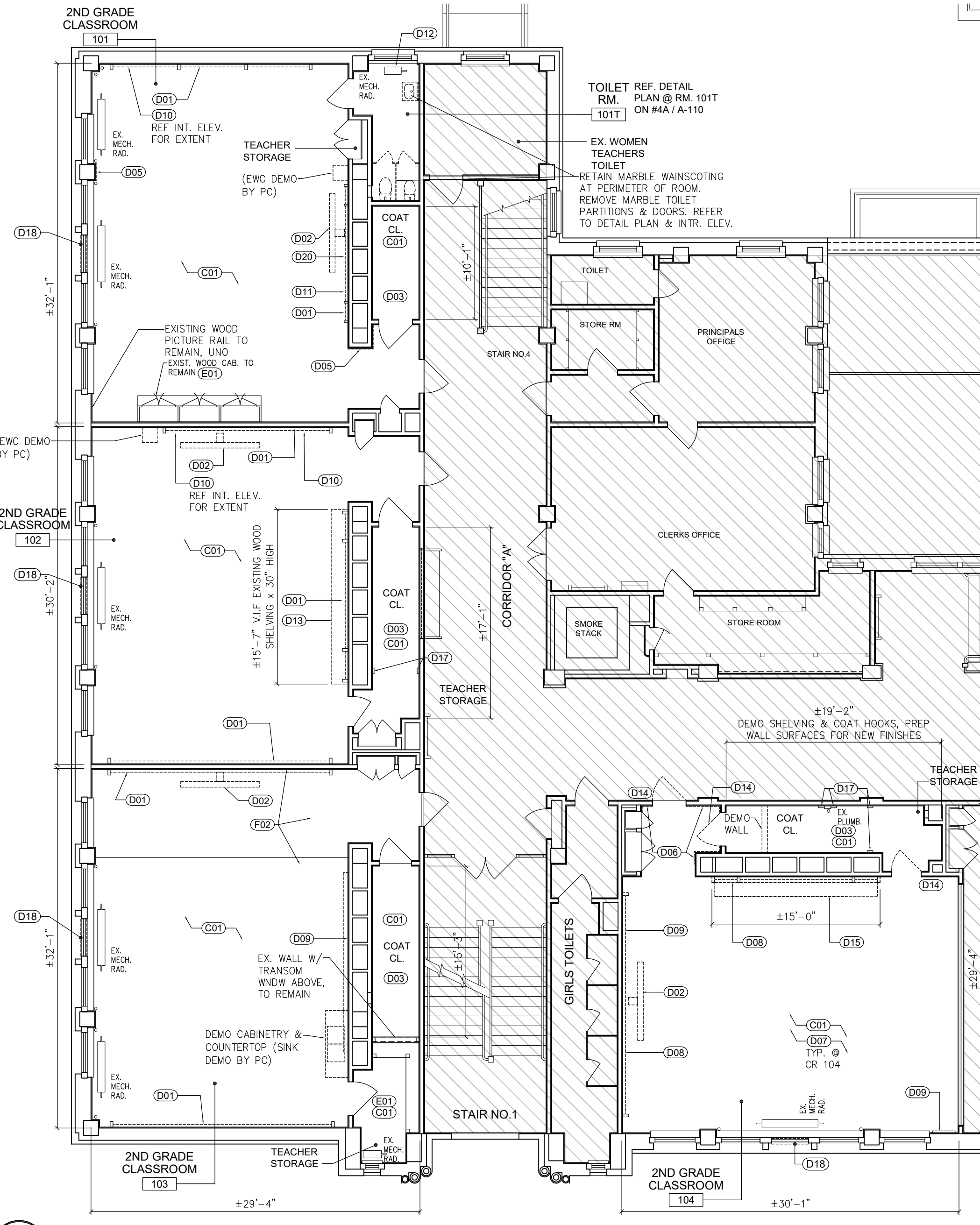
2 DEMOLITION PLAN - 1ST LEVEL - PARTIAL ZONE 'A'  
A-110 SCALE: 1/8" = 1'-0"



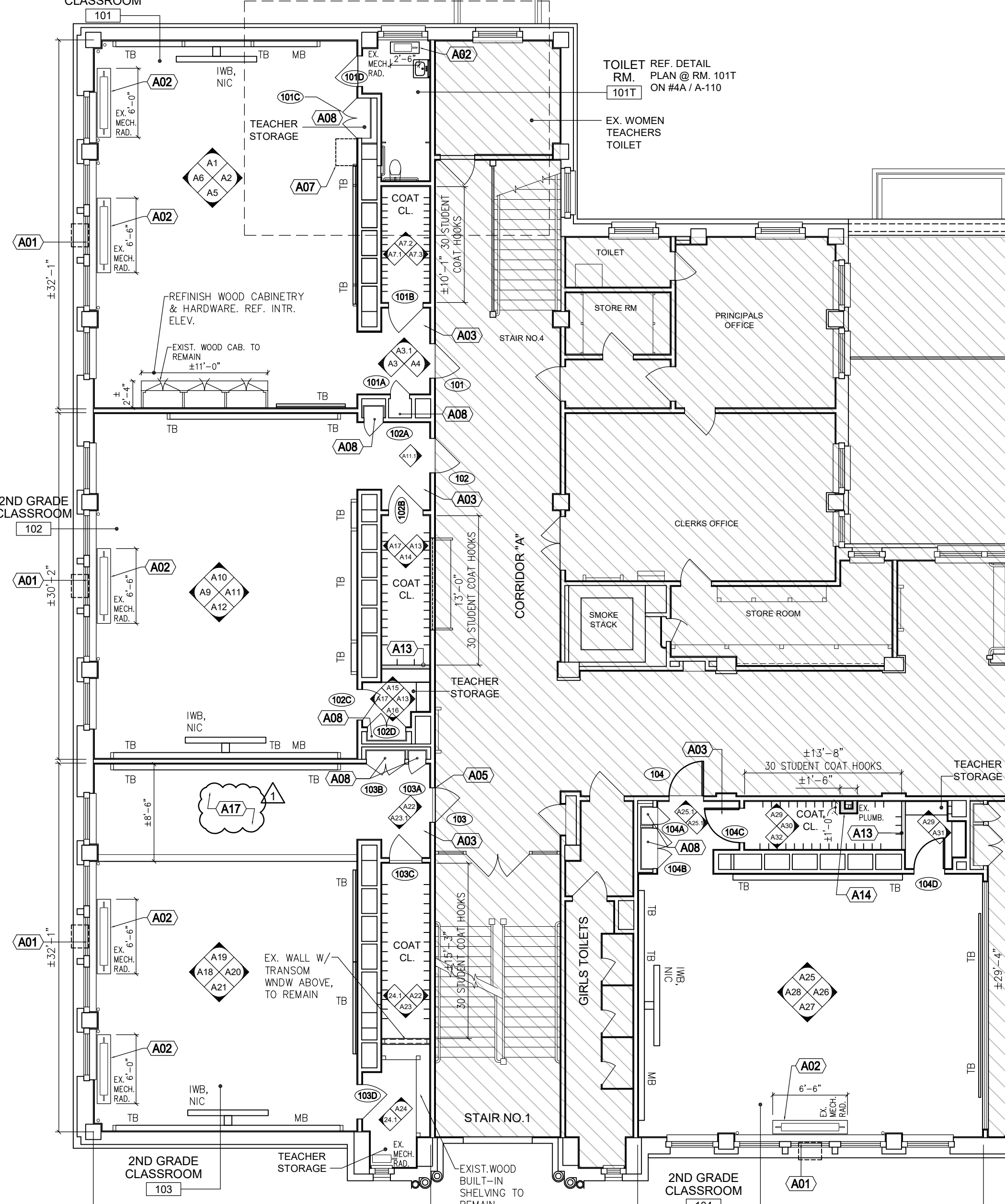
5 FLOOR PLAN - 1ST LEVEL - PARTIAL ZONE 'A'  
A-110 SCALE: 1/8" = 1'-0"



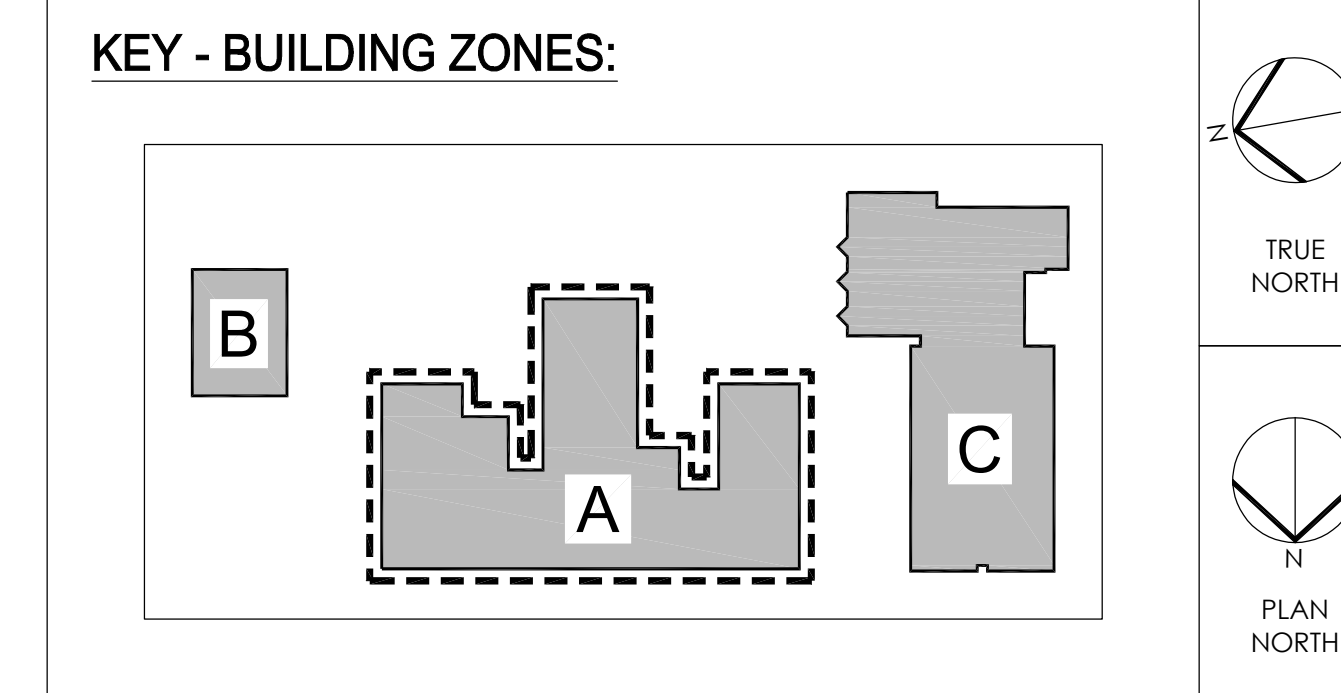
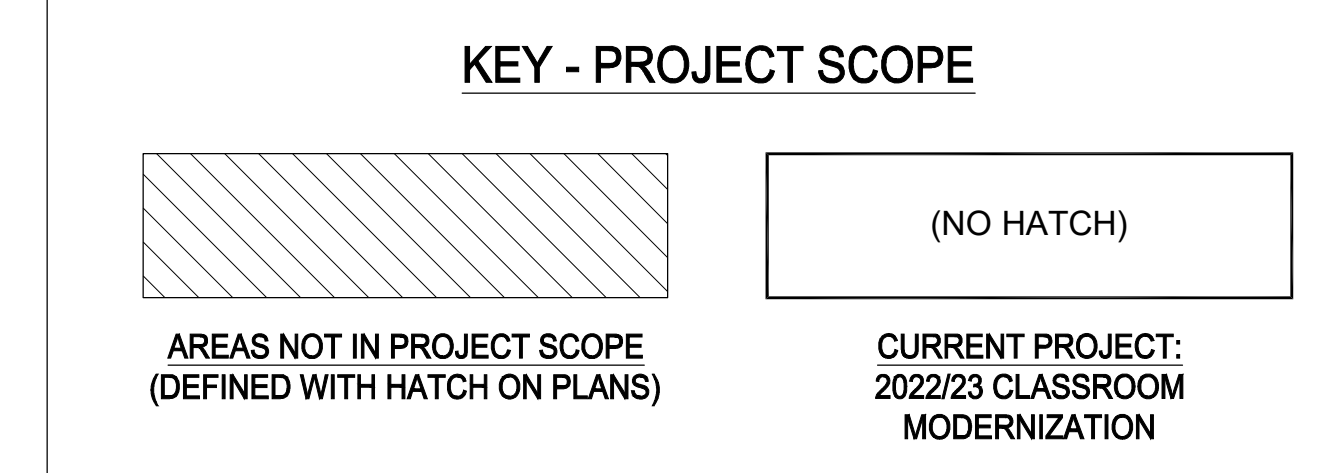
4A DETAIL PLAN @ TOILET RM. 101T  
A-110 SCALE: 1/4" = 1'-0"



1 DEMOLITION PLAN - 1ST LEVEL - PARTIAL ZONE 'A'  
A-110 SCALE: 1/8" = 1'-0"



4 FLOOR PLAN - 1ST LEVEL - PARTIAL ZONE 'A'  
A-110 SCALE: 1/8" = 1'-0"



NOTES:  
- ZONE 'A' = 1926 "MAIN" BUILDING  
- ZONE 'B' = 1966 "PORTABLE" BUILDING  
- ZONE 'C' = 1997 "LITTLE SCHOOL HOUSE" BUILDING  
- "DASHED LINE" DEFINES PLAN AREA SHOWN ON SHEET.

SEAL:

Name: Kevin Ray Goodhall DATE 10/22/1996  
STATE AND LICENSE NO: RA014783X

**ARCHITECT:**  
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**ISSUE FOR BID**  
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NO.	DATE REVISION

SCHOOL & LOCATION  
**FRANCIS HOPKINSON SCHOOL**  
1301-31 E LUZERNE STREET  
PHILADELPHIA, PA 19124

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**INTERIOR FINISH LEGEND & SCHEDULES**

DRAWING SCALE	
LOCATION NO.	####
DRAWN BY	CHECKED BY
AK / AW	KG
GC - 2022-006-G FC - 2022-006-F EC - 2022-006-E	
DRAWING NO.	
<b>A - 130</b>	
SHEET 9 OF 35	

**INTERIOR FINISH - LEGEND**

ABBREVIATION	MATERIAL / DESCRIPTION	MANUFACTURE / PRODUCT / STYLE / COLOR / MISC.	REMARKS	REF. SPEC
APC	ACOUSTICAL PANEL CEILING	ARMSTRONG - FINE FISSURED SCHOOL ZONE (HIGH ACOUSTICS) - #1714		09 51 13
CT-F	CERAMIC TILE @ FLOOR & BASE	DALTILE - KEYSTONES TILE SIZE: 2 INCH X 3 INCH COLOR: #D208 SUEDE GRAY SPECKLE TILE BASE: 3 TILE HIGH (NO COVE / FLAT TOP)	AT DOOR OPENING, PROVIDE BULLNOSE EDGE TILE TRANSITION TO ADJACENT FLOOR FINISH. TRANSITION HEIGHT NOT TO EXCEED 1/2" VERTICAL HEIGHT DIFFERENCE. IF GREATER THAN 1/2" THAN GRIND EXIST. FLOOR SUBSTRATE.	09 30 13
CT-WF	CERAMIC TILE @ WALLS	DALTILE - COLORWHEEL TILE SIZE: 4 INCH X 4 INCH CT-W1 = #714 DESERT GRAY - MATTE (FIELD) CT-W2 = #1049 OCEAN BLUE - ACCENT	- INSTALL WALL TILE FROM FLOOR TO CEILING, UNLESS NOTED OTHERWISE - PROVIDE "BULL NOSE" EDGED TILE WHERE TILE EDGES ARE EXPOSED. THIS INCLUDES AT PERIMETER OF DOOR OPENINGS.	09 30 13
MB	MARKERBOARD	CLARIDGE PRODUCTS (BASIS OF DESIGN)	REF. SPEC. FOR MARKERBOARD ASSEMBLIES: MB, MB1 & MB2	10 11 00
P	PAINT	MANUF: SHERWIN WILLIAMS		09 91 23
	P-A1	SW 7014 - EIDER WHITE ("WHITE")	ZONE 'A' - FIELD PAINT @ TYPICAL WALLS	
	P-A2	SW 9074 - GENTLE GRAPE ("PURPLE")	ACCENT PAINT, WHERE INDICATED DRAWINGS	
	P-A3	SW 6430 - GREAT GREEN ("GREEN")	ACCENT PAINT, WHERE INDICATED DRAWINGS	
	P-A4	SW ##### (TBD, MATCH EXIST. "DARK BROWN" COLOR - DARK BASE)	PAINT EXISTING WOOD (BASE, TYP.)	
	P-B1	SW 7014 - EIDER WHITE ("WHITE")	ZONE 'B' - FIELD PAINT @ TYPICAL WALLS	
	P-B2	SW 9052 - BLITHE BLUE ("TEAL")	ACCENT PAINT, WHERE INDICATED DRAWINGS	
	P-B-C	SW 7014 - EIDER WHITE ("WHITE")	PAINT @ EXISTING CONCRETE / PLASTER CEILING	
	P-B-HM	SW 7018 - DOVE TAIL ("MED. GRAY")	PAINT @ HOLLOW METAL FRAMES / TRIM, TYP.	
	P-C1	SW 7014 - MINDFUL GRAY ("WHITE")	ZONE 'C' - FIELD PAINT @ TYPICAL WALLS	
	P-C2	SW 6430 - GREAT GREEN ("GREEN")	ACCENT PAINT, WHERE INDICATED DRAWINGS	
	P-C-C	SW 7014 - EIDER WHITE ("WHITE")	PAINT @ EXISTING UPPER WALL AREA, REF. INTR. ELEV.	
	P-C-HM	SW ##### (TBD, MATCH EXIST. "DARK GREEN" COLOR - DARK BASE)	PAINT @ HOLLOW METAL FRAMES / TRIM, TYP.	
RB-	RESILIENT BASE	MANUF: ROPPE PRODUCT: PINNACLE - VULCANIZED TS RUBBER SIZE: 6 INCH HIGH, TYP. / 4" INCH HIGH @ CABINETS		09 65 13
	RB-B	COLOR: #175 - SLATE	@ ZONE 'B', TYPICAL	
	RB-C	COLOR: #160 - FOREST GREEN OR #169 HUNTER GREEN (SUBMIT SAMPLES FOR FINAL SELECTION)	@ ZONE 'C' @ CASEWORK ONLY / EXIST. COVED GLAZED CMU BLOCK TO REMAIN AT CMU WALLS	
RES-FLR	RESINOUS FLOORING	KEY RESIN - KEY CHIP FLAKE #100 COLOR/LAKE BLEND /FS-704 ARCTIC	@ ZONE 'A' - RM. #101T	09 67 23
SSM-	SOLID SURFACE MATERIAL	WILSONART - SOLID SURFACE		12 36 61
	SSM-A	#9230SS POWDER WHITE (OR SIMILAR UP TO GROUP #3)	@ ZONE 'A', TYP.	
	SSM-B	#9175ML AVALANCHE MELANGE (OR SIMILAR GROUP #3)	@ ZONE 'B', TYP.	
	SSM-C	#9175ML AVALANCHE MELANGE (OR SIMILAR GROUP #3)	@ ZONE 'C', TYP.	
SS-CG	STAINLESS STEEL CORNER GUARDS	CS ACROVYN - 72" H - MODEL C08 @ 90 DEGREES - MODEL C08M @ +/- 120 DEGREES, VIF (CUSTOM SHAPE)	PRODUCT TO BE INSTALLED W/ MANUFACTURE'S RECOMMENDED ADHESIVE	
TB	TACKBOARD - VINYL WALL COVERING	KOROSEAL VINYL. (TO BE SELECTED FROM TACKBOARD MANUF. FULL RANGE OF VINYL WALL COVERING STANDARD OPTIONS)	REF. SPEC. "VISUAL DISPLAY UNITS" FOR BASIS-OF DESIGN & RELATED FINISHES ON TACKBOARD ASSEMBLIES. TB, TBW, TB1, TB2 & TB3	10 11 00
VCT-#	VINYL COMPOSITE TILE (RESILIENT TILE)	ARMSTRONG WORLD INDUSTRIES STANDARD EXCELON IMPERIAL TEXTURE VCT	- PROVIDE HYDRAULIC CEMENT UNDERLAYMENT UNDER NEW VCT INSTALLATIONS. GRIND AND TAPER SUBFLOOR AS REQUIRED TO MAKE TOP OF NEW VCT FLOOR MEETING FLUSH WITH TOP OF EXISTING FLOOR FINISH AT DOOR OPENINGS. - REF. FINISH PLANS FOR COLOR SELECTION RELATED TO ROOM'S ASSIGNED "COLOR FAMILY". IF NOTED "TBD", THEN COLOR TO BE SELECTED FROM MANUF. FULL RANGE OF STANDARD COLORS.	09 65 19
WD	WOOD	WOOD SPECIES - CLEAR / STAIN	WHERE NOTED TO MATCH EXIST. WOOD, PROVIDE THREE (3) SAMPLE OPTIONS OF VARIOUS STAIN OPTIONS, +/- 8" SQ. EACH.	
	WD-A1	OAK - (REFINISH)	ZONE 'A' - REFINISHING EXIST. WOODWORK & DOORS	09 91 23
	WD-A2	OAK - DARK STAIN (TO MATCH EXIST. ADJACENT WOOD)	ZONE 'A' - NEW WOOD DOORS & WOOD TRIM	09 91 23
	WD-B1	OAK - CLEAR	ZONE 'B' - NEW WOOD DOORS, CABINETS & TRIM	
WT-#	WINDOW TREATMENT	FASCIA / SHADECLOTH / COLOR / OPENNESS	REF. SPEC. FOR ROLLER WINDOW SHADES	12 24 13
	WT-1	FASCIA: BRONZE (MATCH EX. WINDOW FRAME) SHADECLOTH: MERMET E-SCREEN / WHITE-PEARL / 1%	@ ZONE 'A', TYP.	
	WT-2	FASCIA: WHITE SHADECLOTH: MERMET E-SCREEN / WHITE-PEARL / 1%	@ ZONE 'B', TYP.	
	WT-3	FASCIA: (TO BE SELECTED FROM MANUF. FULL RANGE) SHADECLOTH: MERMET E-SCREEN / WHITE-PEARL / 1%	@ ZONE 'C', TYP.	
<b>GENERAL NOTES:</b>				
1	REFERENCE INTERIOR FINISH - ROOM SCHEDULE			
2	REFERENCE INTERIOR FINISH PLAN, REFLECTED CEILING PLAN & INTERIOR ELEVATIONS			
3	FOR VCT-# & P-#, REFERENCE FINISH PLANS FOR ASSIGNED "COLOR FAMILY"			

**INTERIOR FINISH - ROOM SCHEDULE**

ROOM #	ROOM NAME	FLOOR		WALLS				CEILING		REMARKS
		FINISH	BASE	N	E	S	W	MATL.	FINISH	
<b>ZONE 'A' - MAIN BUILDING:</b>										
101	CLASSROOM & COAT CL.	REFINISH EXIST. WOOD FLOORING	P-A4	REFINISH EXIST. WOODWORK / P-A# SERIES @ WALLS				APC		-
101T	TOILET ROOM	RESINOUS FLOORING (INTEGRAL BASE)	RB	REFINISH EXIST. WOODWORK / P-A# SERIES @ WALLS				APC		EXIST. MARBLE WALL PANELS TO REMAIN. CLEAN & PATCH
102	CLASSROOM COAT CL & TEACHER STORAGE	REFINISH EXIST. WOOD FLOORING	P-A4	REFINISH EXIST. WOODWORK / P-A# SERIES @ WALLS				APC		-
103	CLASSROOM COAT CL & TEACHER STORAGE	REFINISH EXIST. WOOD FLOORING SEE GENERAL NOTE #7.	P-A4	REFINISH EXIST. WOODWORK / P-A# SERIES @ WALLS				APC		PAINT EXIST. WOOD SHELVING IN TEACHER STORAGE ROOM
104	CLASSROOM COAT CL & TEACHER STORAGE	REFINISH EXIST. WOOD FLOORING	P-A4	REFINISH EXIST. WOODWORK / P-A# SERIES @ WALLS				APC		EXISTING WOOD TRIM TO BE PAINTED, REF. INTR. ELEV.
109	CLASSROOM COAT CL & TEACHER STORAGE	REFINISH EXIST. WOOD FLOORING	P-A4	REFINISH EXIST. WOODWORK / P-A# SERIES @ WALLS				APC		-
205	CLASSROOM COAT CL & TEACHER STORAGE	REFINISH EXIST. WOOD FLOORING	P-A4	REFINISH EXIST. WOODWORK / P-A# SERIES @ WALLS				APC		-
206	CLASSROOM COAT CL & TEACHER STORAGE	REFINISH EXIST. WOOD FLOORING	P-A4	REFINISH EXIST. WOODWORK / P-A# SERIES @ WALLS				APC		-
<b>ZONE 'B' - PORTABLE BUILDING:</b>										
P1	CLASSROOM	VCT-#	RB	P-B# SERIES				(EX. CONC.)	P-B-C	
P1.1	UTILITY CL.	VCT-#	RB	P-B# SERIES				(EX. CONC.)	P-B-C	
P1.2	TOILET ROOM	CT-F	RB	CT-W + P-B-C.ABOVE				(EX. CONC.)	P-B-C	
P1.3	STUDENT COAT AREA	VCT-#	RB	P-B# SERIES				(EX. CONC.)	P-B-C	
P1.4	STORAGE	VCT-#	RB	P-B# SERIES				(EX. CONC.)	P-B-C	
P2	CLASSROOM	VCT-#	RB	P-B# SERIES				(EX. CONC.)	P-B-C	
P2.1	UTILITY CL.	VCT-#	RB	P-B# SERIES				(EX. CONC.)	P-B-C	
P2.2	TOILET ROOM	CT-F	RB	CT-W + P-B-C.ABOVE				(EX. CONC.)	P-B-C	
P2.3	STUDENT COAT AREA	VCT-#	RB	P-B# SERIES				(EX. CONC.)	P-B-C	
P2.4	STORAGE	VCT-#	RB	P-B# SERIES				(EX. CONC.)	P-B-C	
P3	FOYER	VCT-3	RB	P-B# SERIES				(EX. CONC.)	P-B-C	
P3.1	STORAGE	VCT-1	RB	@ CONCRETE COLUMNS & GWB (EXIST. "CONC. PEBBLE SURFACES" BTWN COLUMNS TO REMAIN UNFINISHED)				(EX. CONC.)	P-B-C	
P3.2	TEACHER WORKSPACE	VCT-1	RB					(EX. CONC.)	P-B-C	
<b>ZONE 'C' - LITTLE SCHOOL HOUSE BUILDING:</b>										
L1	CLASSROOM	VCT-#	RB	P-C# SERIES				(EXIST. WOOD CEILING & 'PURPLE' EXPOSED STRUCTURE TO REMAIN)	REF. NOTE #9	
L1-S	STORAGE	VCT-#	RB	P-C1				APC	-	
L1-T	TOILET ROOM	(EXIST. CERAMIC TILE FLOOR & BASE TO REMAIN)	RB	P-C1				EX. GWB	P-C-C	
L2	CLASSROOM	VCT-#	RB	P-C# SERIES				(EXIST. WOOD CEILING & 'PURPLE' EXPOSED STRUCTURE TO REMAIN)	REF. NOTE #9	
L2-S	STORAGE	VCT-#	RB	P-C1				APC	-	
L2-T	TOILET ROOM	(EXIST. CERAMIC TILE FLOOR & BASE TO REMAIN)	RB	P-C1				EX. GWB	P-C-C	
L3	CLASSROOM	VCT-#	RB	P-C# SERIES				(EXIST. WOOD CEILING & 'PURPLE' EXPOSED STRUCTURE TO REMAIN)	REF. NOTE #9	
L3-S	STORAGE	VCT-#	RB	P-C1				APC	-	
L3-T	TOILET ROOM	(EXIST. CERAMIC TILE FLOOR & BASE TO REMAIN)	RB	P-C1				EX. GWB	P-C-C	
L4	CLASSROOM	VCT-#	RB	P-C# SERIES				(EXIST. WOOD CEILING & 'PURPLE' EXPOSED STRUCTURE TO REMAIN)	REF. NOTE #9	
L4-S	STORAGE	VCT-#	RB	P-C1				APC	-	
L4-T	TOILET ROOM	(EXIST. CERAMIC TILE FLOOR & BASE TO REMAIN)	RB	P-C1				EX. GWB	P-C-C	
L5	CLASSROOM	VCT-#	RB	P-C# SERIES				(EXIST. WOOD CEILING & 'PURPLE' EXPOSED STRUCTURE TO REMAIN)	REF. NOTE #9	
L5-S	STORAGE	VCT-#	RB	P-C1				APC	-	
L5-T	TOILET ROOM	(EXIST. CERAMIC TILE FLOOR & BASE TO REMAIN)	RB	P-C1				EX. GWB	P-C-C	
L6	CLASSROOM	VCT-#	RB	P-C# SERIES				(EXIST. WOOD CEILING & 'PURPLE' EXPOSED STRUCTURE TO REMAIN)	REF. NOTE #9	
L6-S	STORAGE	VCT-#	RB	P-C1				APC	-	
L6-T	TOILET ROOM	(EXIST. CERAMIC TILE FLOOR & BASE TO REMAIN)	RB	P-C1				EX. GWB	P-C-C	
<b>GENERAL NOTES:</b>										
1	REFERENCE INTERIOR FINISH LEGEND FOR FINISH PRODUCTS & RELATED ABBREVIATIONS									
2	(ETR) = EXISTING TO REMAIN									
3	REFERENCE FINISH PLANS AND INTERIOR ELEVATIONS FOR LAYOUT & EXTENT OF INTERIOR FINISHES.									
4	FOR NOTES ON REFINISHING EXISTING WOODWORK, WOOD DOORS & WINDOWS, AND WOOD FLOORING IN BUILDING ZONE 'A', REFER TO NOTES ON SHEET A-120 & RELATED SPECIFICATION SECTIONS.									
5	REFERENCE SHEET A-005 FOR LOCATIONS OF EXISTING WOOD DOORS TO BE REFINISHED ON DOOR SCHEDULE.									
6	AT BUILDING ZONE 'C', CLEAN EXISTING WOOD CEILING & PAINTED STRUCTURE FINISHES TO REMAIN, THIS INCLUDES: DUST, COBWEBS, STRINGS, ADHESIVE.									
7	ENTIRE CLASSROOM SHALL HAVE EXISTING WOOD FLOOR REFINISHED, INCLUDING THE AREA DESIGNATED TO RECEIVE VCT FLOORING. AS THE CONDITION OF THIS EXISTING WOOD FLOOR CAN NOT BE DETERMINED, THE PROJECT INCLUDES BOTH REFINISHING OF WOOD AND VCT IN THIS AREA. IF REFINISHING OF WOOD IS DEEMED ACCEPTABLE BY THE ARCHITECT AND OWNER, A CREDIT MAY BE REQUESTED FOR THE VCT. NOTIFY THE ARCHITECT AND OWNER WHEN REFINISHING IS COMPLETE AND PRIOR TO NEW VCT BEING INSTALLED.									
8	PROVIDE HYDRAULIC CEMENT UNDERLAYMENT AT ALL VCT FLOOR FINISH INSTALLATION AREAS IN BUILDING ZONE 'B' & ZONE 'C'									
9	EX. CMU WALLS HAVE CERAMIC COVE BASE TO REMAIN. PROVIDE RESILIENT BASE AT CASEWORK & CABINETS ONLY. WHERE VCT FINISH MEETS EX. COVE BASE, SCRIBE VCT EDGE TO MEET FLUSH.									

**REFINISHING EXISTING WOODWORK, DOORS & WINDOWS @ HOPKINSON - BUILDING ZONE 'A':**

- REFER TO SPECIFICATION #09 91 23 - PAINTING (INCLUDES WOOD FINISHES)
- "EXISTING WOODWORK" INCLUDES THE FOLLOWING ITEMS:
    - DOORS:
      - SOLID WOOD STILE & RAIL DOORS WITH RECESSED WOOD & GLASS PANELS
      - SOLID WOOD FRAMES & TRIM
    - TRANSOM & INTERIOR WINDOWS:
      - WOOD FRAMES & TRIM
      - DIVIDER GLAZING MULLIONS
    - 'CHALKBOARD' & 'TACKBOARD' WOOD FRAMES, PERIMETER & DIVIDER TRIM & 'CHALK' TRAYS
    - INTERIOR SIDE OF EXTERIOR WINDOWS - WOOD JAMBS, HEADS, TRIMS, SILLS, AND PANELS (BTWN. WINDOW UNITS)
    - WOOD FRAMES AT EXISTING OPERABLE PARTITIONS.
  - "REFINISH"-ING SCOPE INCLUDES:
    - WHERE REQUIRED AT DOORS, MODIFY EXISTING DOOR TO ALLOW FOR PROPER FIT WITHIN THE FRAME, THIS INCLUDES: PLANE FOR PROPER FIT AND UNDERCUTTING TO SWING PROPERLY.
    - RE-SECURE ANY WOOD TRIM THAT IS DIS-LOGGED.
    - PREPARE ALL SURFACES TO RECEIVE NEW FINISH PER MANUFACTURERS REQUIREMENTS.
    - PREP EXISTING WOOD SURFACES (SCRAPE, SAND, WIPE, SCARIFY, SCUFF) TO REMOVE EXISTING DEBRIS INCLUDING ADHESIVES, GLUE, TAPE, & METAL FASTENERS (STAPLES / TACKS). ESTIMATE QUANTITIES OF METAL FASTENERS AS FOLLOWS:
      - WOOD DOORS: ESTIMATE ONE HUNDRED (100) PER DOOR OPENING.
      - WOOD FRAMES & TRIM SURROUNDING DOOR & WINDOW OPENINGS: ESTIMATE TEN (10) PER LINEAR FOOT OF TRIM.
      - WOOD FRAMES & TRIM SURROUNDING CHALKBOARDS & TACKBOARDS: ESTIMATE TEN (10) PER LINEAR FOOT.
      - WOOD FRAME & TRIM SURROUNDING OPERABLE PARTITIONS: ESTIMATE REMOVAL OF TEN (10) PER LINEAR FOOT.
    - PATCH ANY DENTS OR HOLES WITH FILLER TO MATCH EXIST. DARK STAINED WOOD.
    - REPLACE MISSING OR DAMAGED WOOD PROFILES WHERE INDICATED ON THE INTERIOR ELEVATIONS. STAIN WOOD TO MATCH "DARK" STAIN OF ADJACENT EXIST. WOOD.
    - FINISH WITH SEALER & POLYURETHANE COATS.

**REFINISHING EXISTING WOOD FLOORING @ HOPKINSON - BUILDING ZONE 'A':**

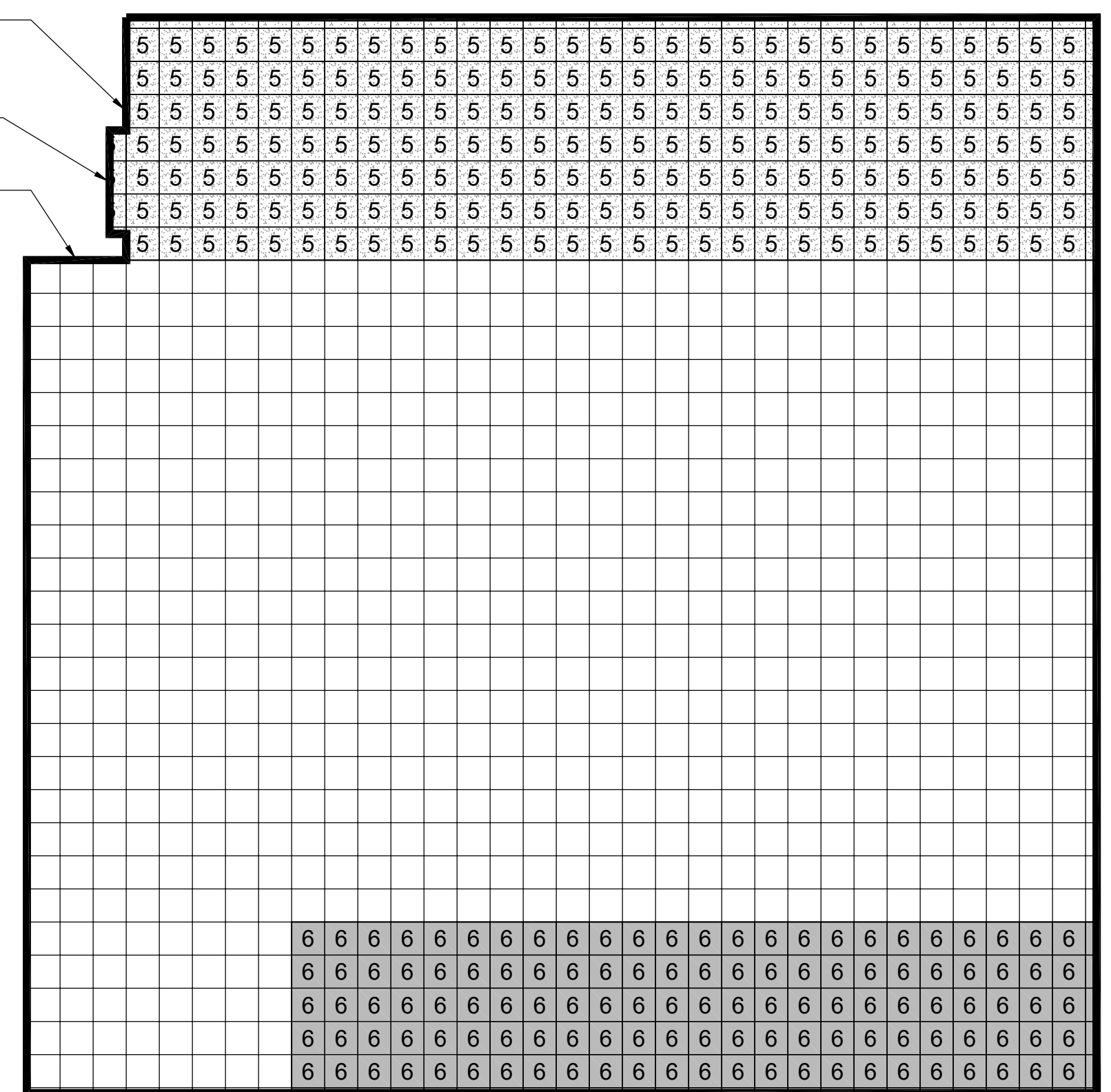
- REFER TO SPECIFICATION #09 64 40 - REFINISHED WOOD FLOORING FOR ADDL. INFORMATION
- "REFINISH"-ING SCOPE INCLUDES:
  - SAND TO REMOVE EXISTING FINISH TO BARE NATURAL WOOD
  - PATCH HOLES & CRACKS, SAND AND PREP
  - RECOMMENDATIONS
  - INSTALL SEALER
  - INSTALL POLYURETHANE FINISH COATS

START VERTICAL TILE PATTERN W/ "FULL" TILE ALONG WALL W/ CLASSROOM ENTRANCE DOOR

ALIGN HORIZ. TILE PATTERN W/ "FULL" TILE ALONG THIS WALL

**PATTERN 'C-AS' (AUTISTIC SUPPORT)**

COLOR FAMILY 'ZONE C'	
□	VCT-4 (FIELD) #51836 SHELTER WHITE
■	VCT-5 #51927 FIELD GRAY
■	VCT-6 #51866 LITTLE GREEN APPLE ("GREEN")
ACCENT WALL PAINT = P-C1 "GRAY" (LOCATED ON "TEACHING WALL" REF. INTERIOR FINISH PLAN & LEGEND)	



TEACHING WALL ±32'-4"

C-AS A-130 **ZONE 'C' - VCT PATTERN 'C-AS' @ ROOM 'L3'**  
SCALE: 1/8" = 1'-0"

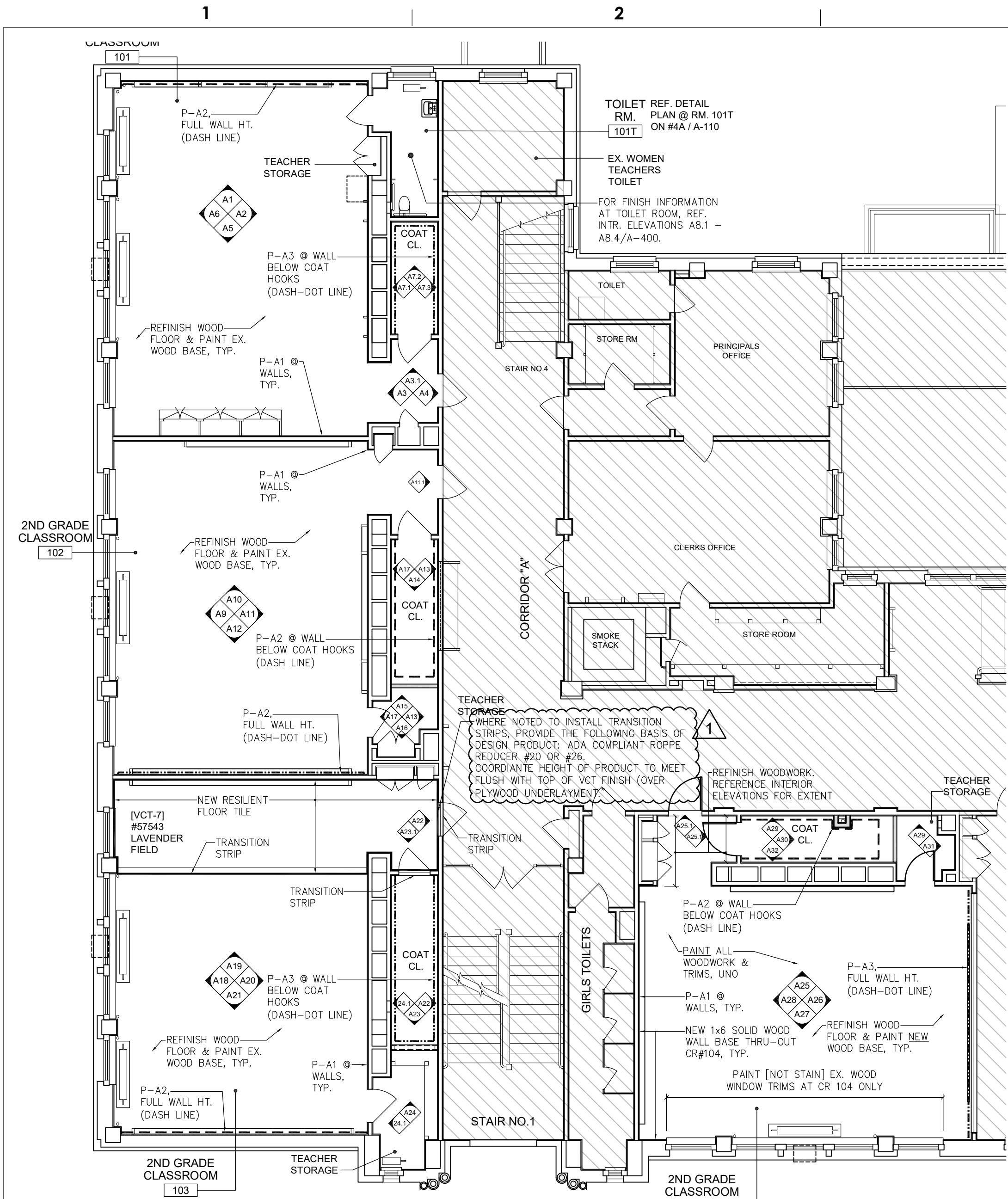


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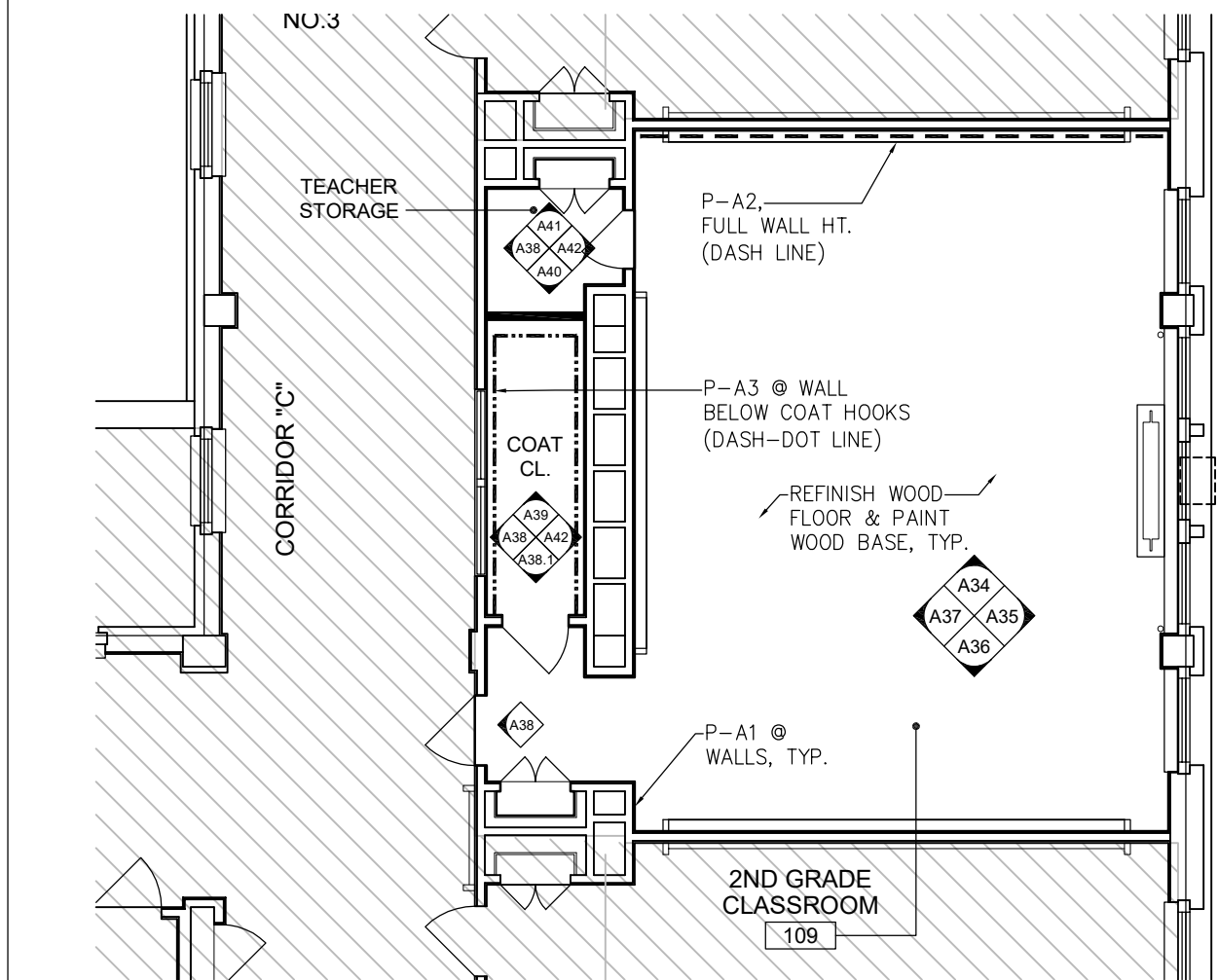
Name: Kevin Ray Godshall DATE: 10/22/1996  
STATE AND LICENSE NO: RA014783X

**ARCHITECT:**  
GODSHALL KANE O'ROURKE ARCHITECTS, LLC  
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AMBLER, PA. 19002  
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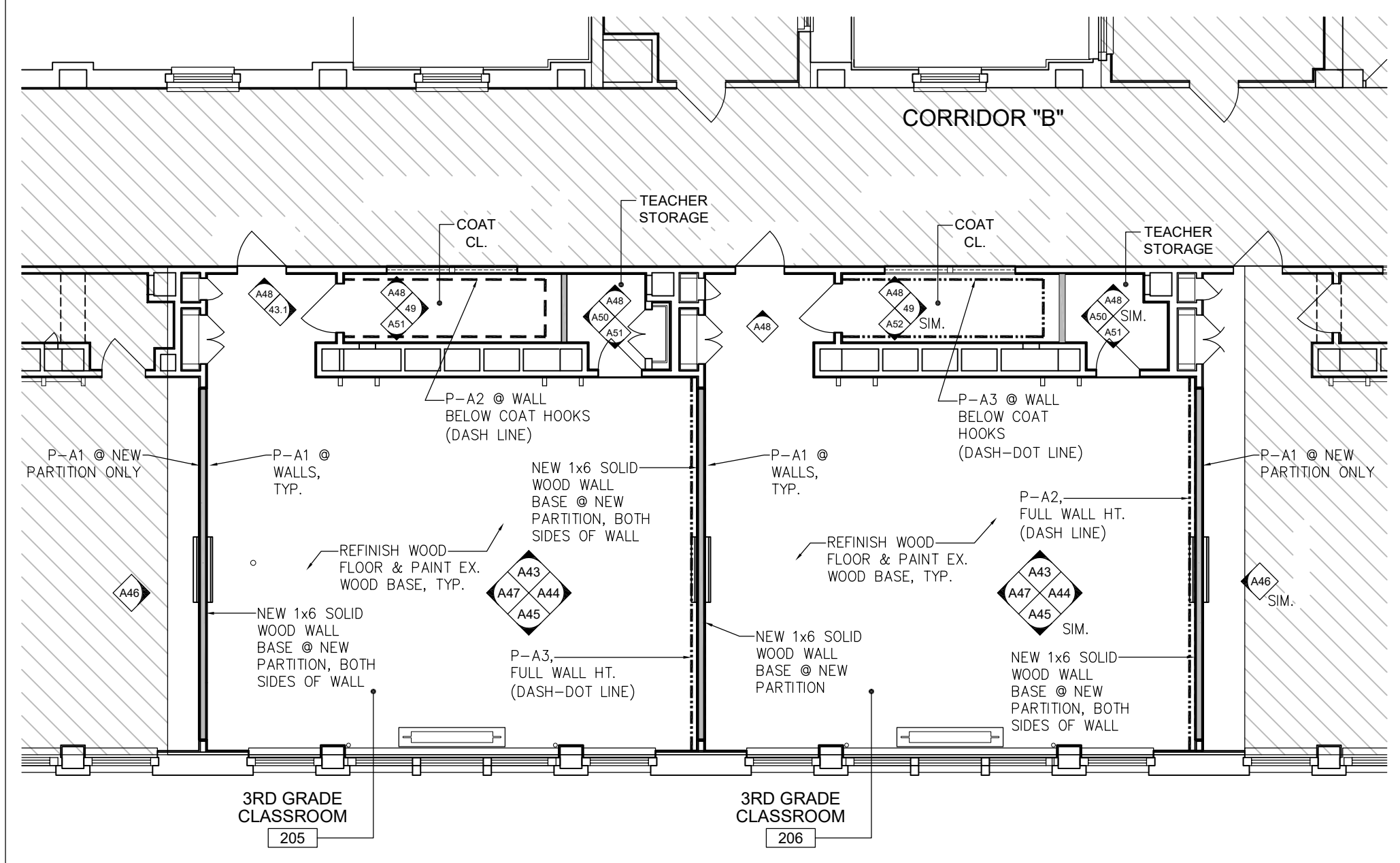
**MECHANICAL / PLUMBING / ELECTRICAL ENGINEER:**  
PSQUARED CONSULTING ENGINEERS  
920 GERMAN TOWN PIKE, SUITE 20  
PLYMOUTH MEETING, PA 19462  
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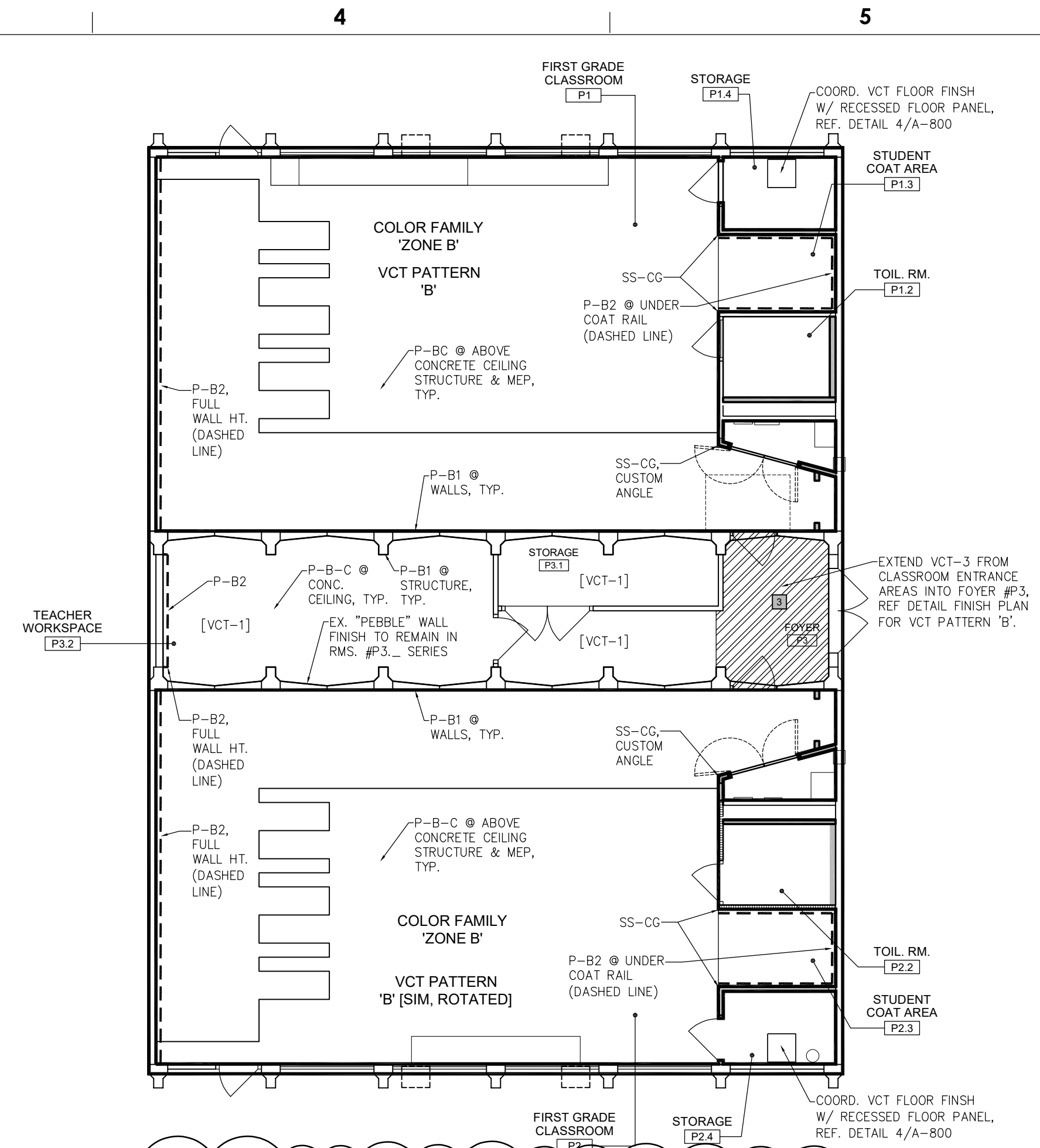
1 FINISH PLAN - 1ST LEVEL - PARTIAL ZONE 'A'  
A-131 SCALE: 1/8" = 1'-0"



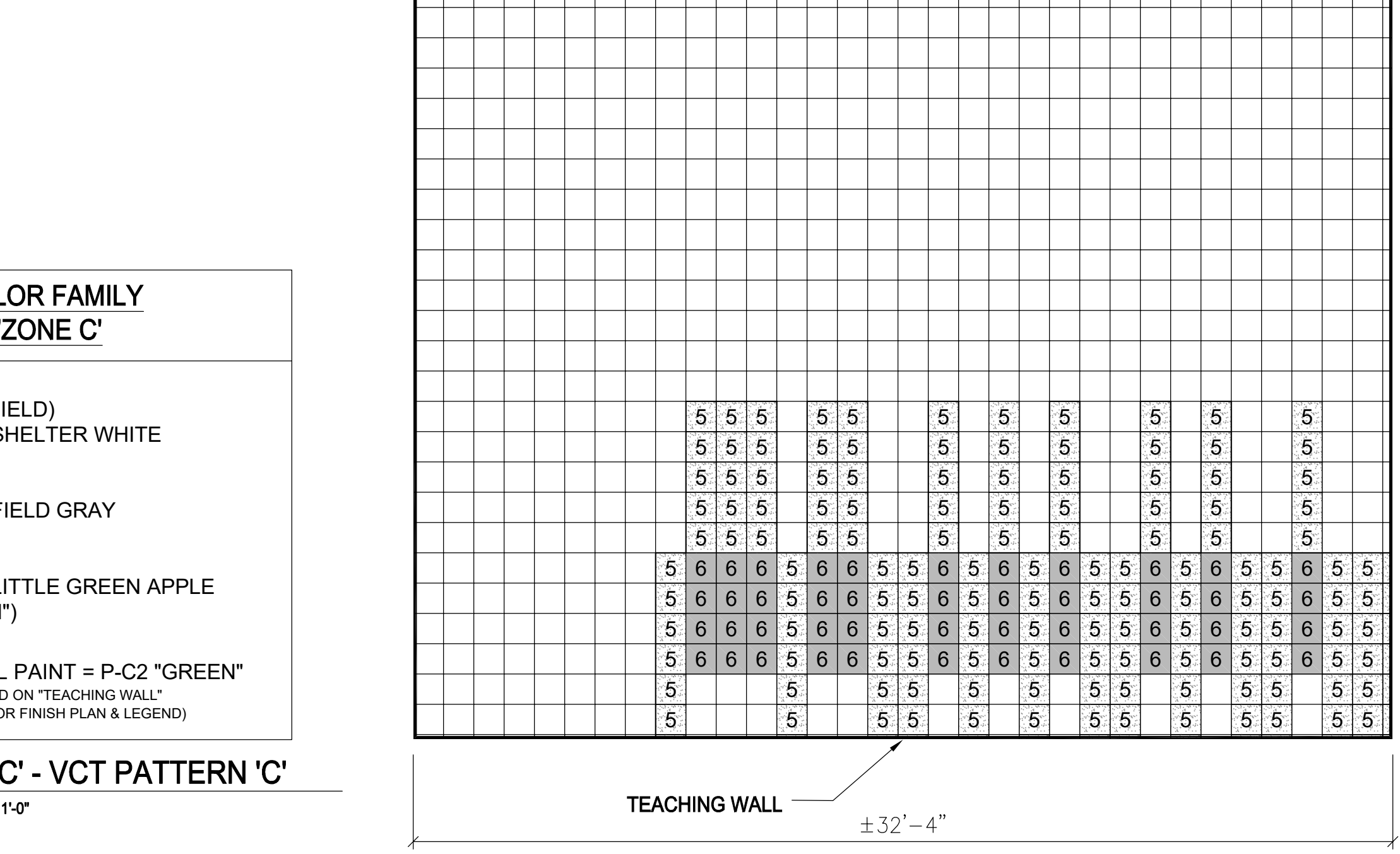
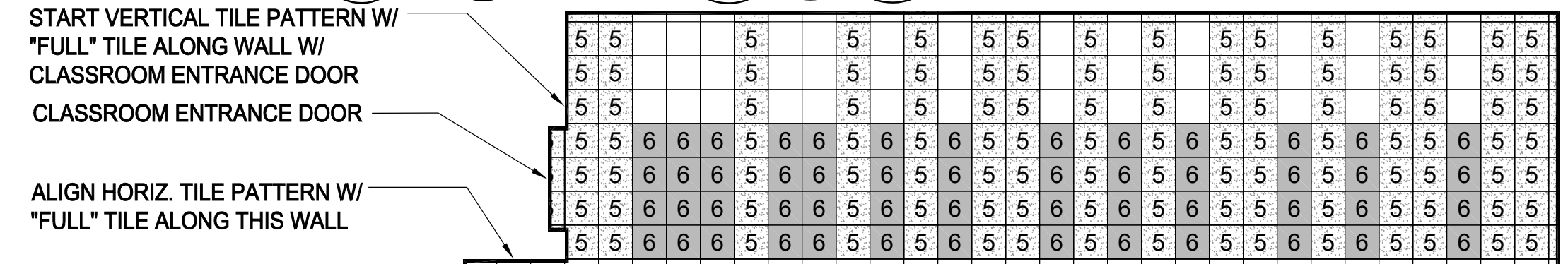
2 FINISH PLAN - ZONE 'A' - MAIN BLDG - 1ST LEVEL  
A-131 SCALE: 1/8" = 1'-0"



3 FINISH PLAN - ZONE 'A' - MAIN BUILDING - 2ND LEVEL  
A-131 SCALE: 1/8" = 1'-0"



4 FINISH PLAN - ZONE 'B' - 'PORTABLE' BUILDING  
A-131 SCALE: 1/8" = 1'-0"

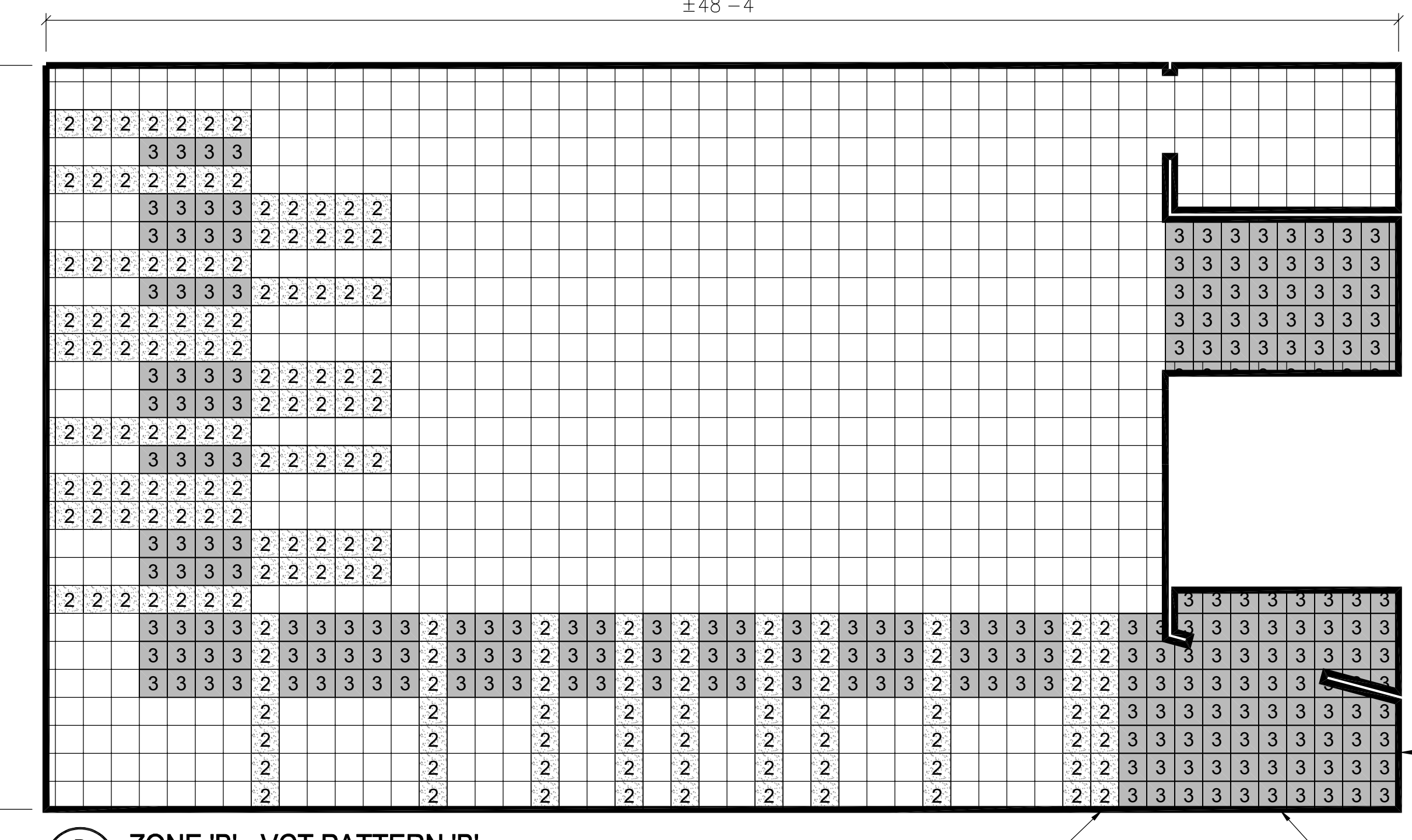


**COLOR FAMILY 'ZONE C'**

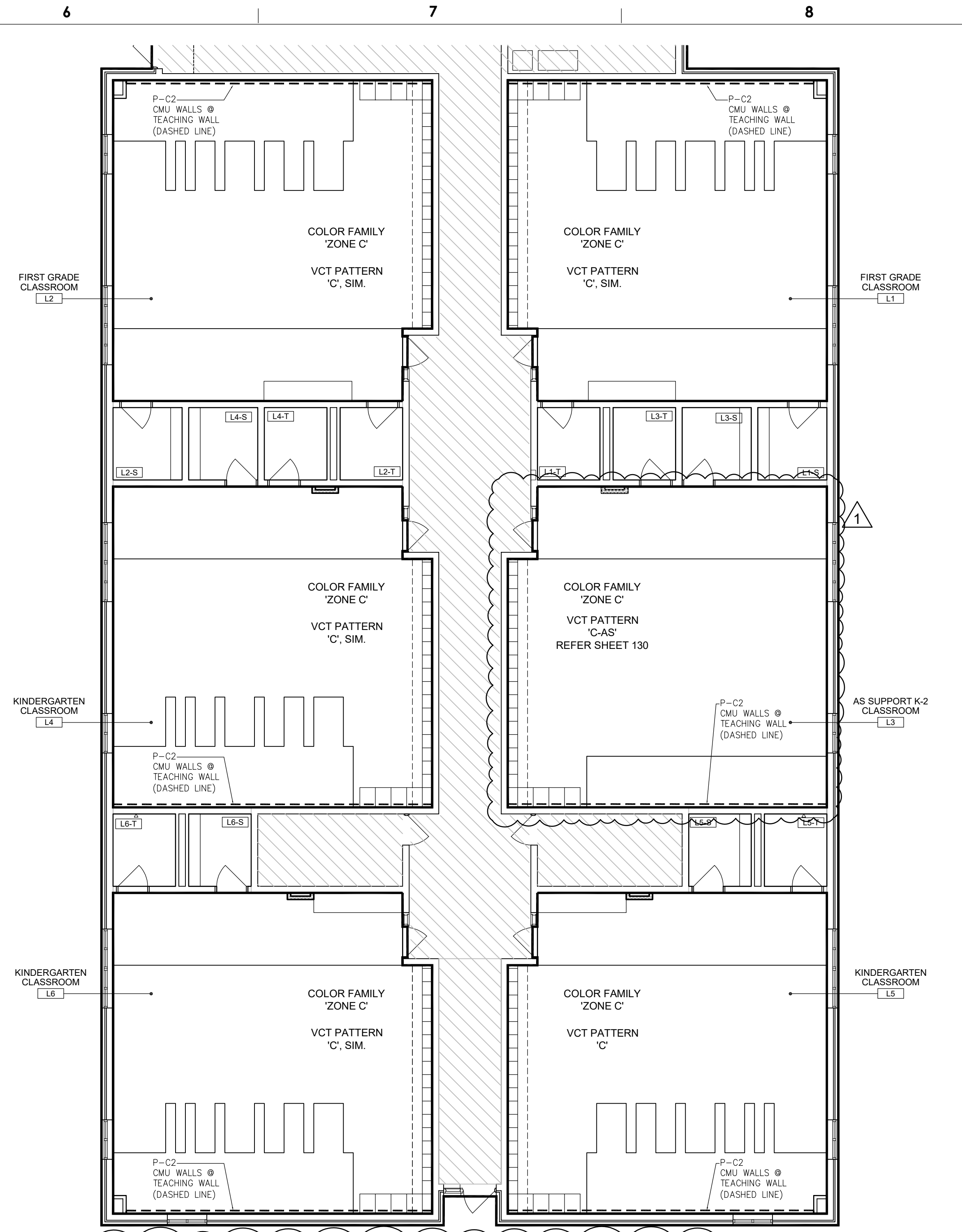
- VCT-4 (FIELD)  
#51836 SHELTER WHITE
- VCT-5  
#51927 FIELD GRAY
- VCT-6  
#51866 LITTLE GREEN APPLE ("GREEN")

ACCENT WALL PAINT = P-C2 "GREEN"  
(LOCATED ON "TEACHING WALL"  
REF. INTERIOR FINISH PLAN & LEGEND)

C ZONE 'C' - VCT PATTERN 'C'  
A-131 SCALE: 1/4" = 1'-0"



B ZONE 'B' - VCT PATTERN 'B'  
A-131 SCALE: 1/4" = 1'-0"



5 FINISH PLAN - ZONE 'C' - "LITTLE SCHOOL HOUSE" BUILDING  
A-131 SCALE: 1/8" = 1'-0"

**COLOR FAMILY 'ZONE B'**

- VCT-1 (FIELD)  
#51836 SHELTER WHITE
- VCT-2  
#51927 FIELD GRAY
- VCT-3  
#57506 COLORADO STONE "TEAL"

ACCENT WALL PAINT = P-B2 "TEAL"  
(PAINTED ON "TEACHING WALL"  
REF. INTERIOR FINISH PLAN & LEGEND FOR  
ADDITIONAL LOCATIONS)

**GENERAL NOTES - FINISH PLAN:**

- REFERENCE INTERIOR FINISH LEGEND & ROOM SCHEDULE ON SHEET A-130 FOR INTERIOR FINISH PRODUCTS, ABBREVIATIONS AND ADDITIONAL FINISH INFORMATION.

**KEY - PROJECT SCOPE**

AREAS NOT IN PROJECT SCOPE (DEFINED WITH HATCH ON PLANS)

CURRENT PROJECT: 2022/23 CLASSROOM MODERNIZATION

**KEY - BUILDING ZONES:**

TRUE NORTH  
PLAN NORTH

**NOTES:**

- ZONE 'A' = 1926 "MAIN" BUILDING
- ZONE 'B' = 1966 "PORTABLE" BUILDING
- ZONE 'C' = 1997 "LITTLE SCHOOL HOUSE" BUILDING
- "DASHED LINE" DEFINES PLAN AREA SHOWN ON SHEET.

**ISSUE FOR BID**  
01/14/2022

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NO. DATE REVISION  
SCHOOL & LOCATION  
**FRANCIS HOPKINSON SCHOOL**  
1301-31 E LUZERNE STREET  
PHILADELPHIA, PA 19124

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**INTERIOR FINISH PLANS**

DRAWING SCALE	
LOCATION NO.	####
DRAWN BY	CHECKED BY
AK / AW	KG
GC - 2022-006-G PC - 2022-006-P EC - 2022-006-E	

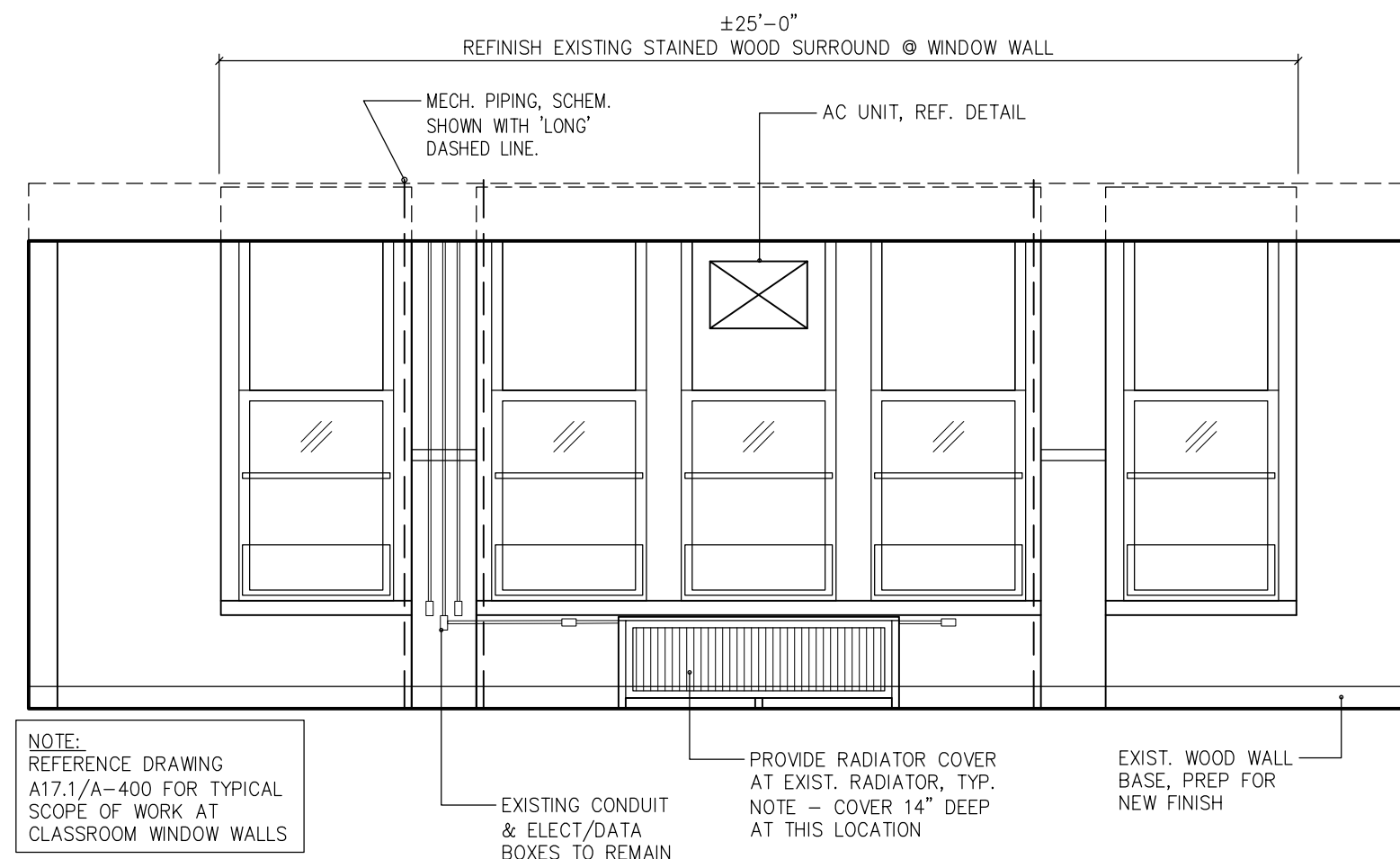
DRAWING NO.  
**A - 131**  
SHEET 10 OF 35

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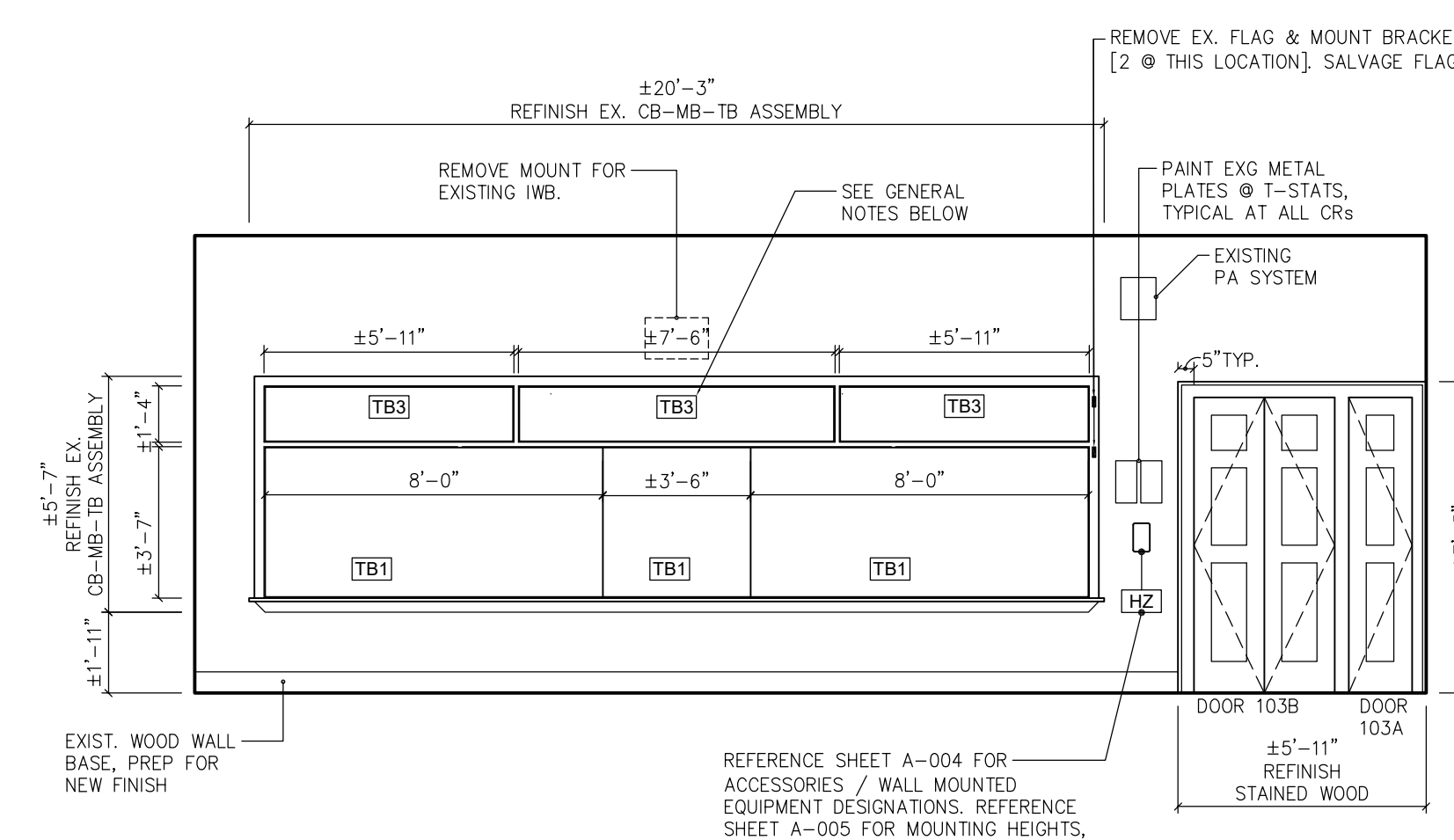
Name: Kevin Ray Goodshall DATE: 10/22/19  
State and License No: R4014793X

ARCHITECT:  
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PHILADELPHIA, PA 19102  
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Attn: ALLISON KLINGLER, RA

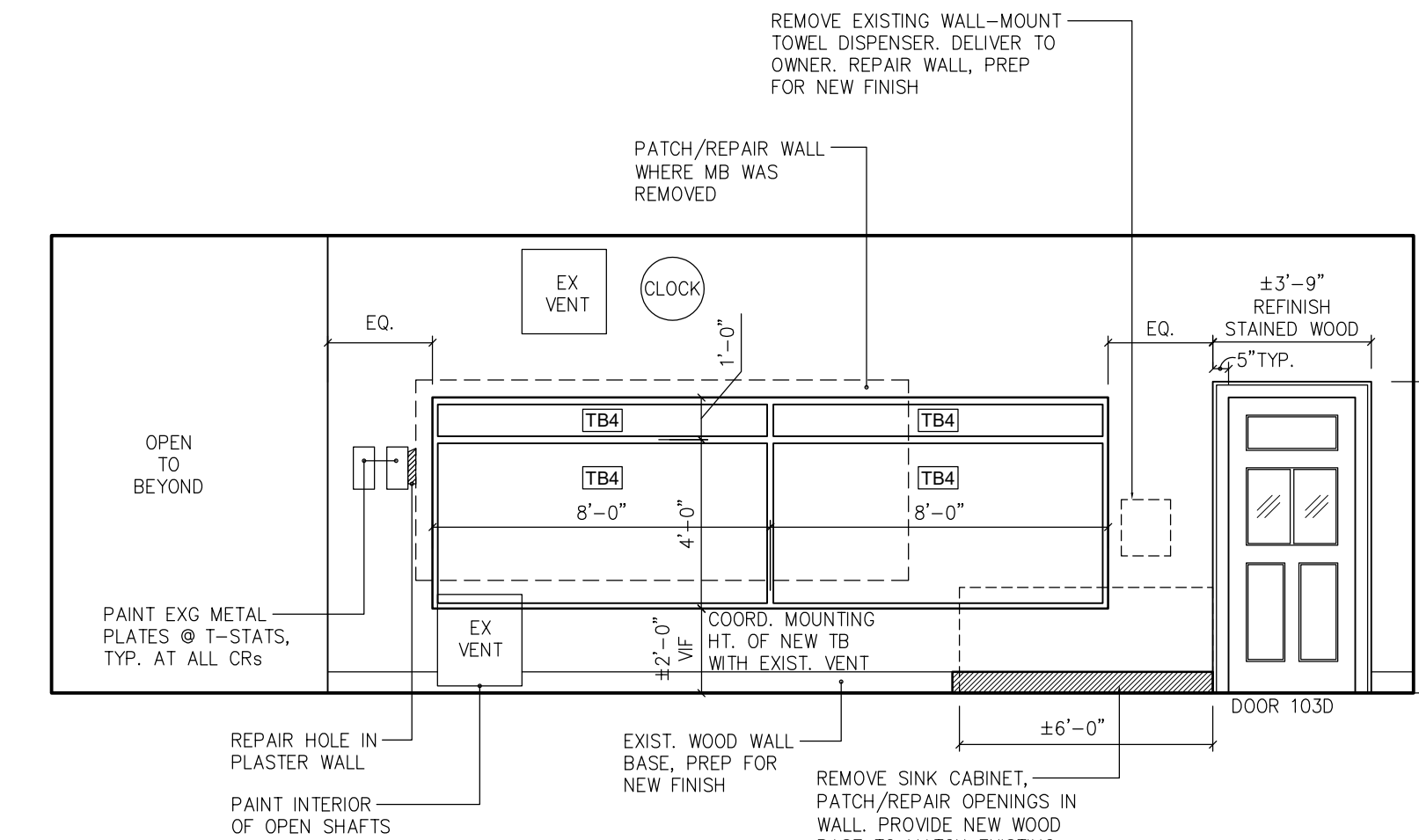
MECHANICAL / PLUMBING / ELECTRICAL ENGINEER:  
PSQUARE CONSULTING ENGINEERS  
920 GERMANTOWN PIKE, SUITE 20  
PLYMOUTH MEETING, PA 19462  
Phone: 484.539.9457  
Email: GOP.PATEL@PSQUAREENG.COM  
Attn: GOPI PATEL



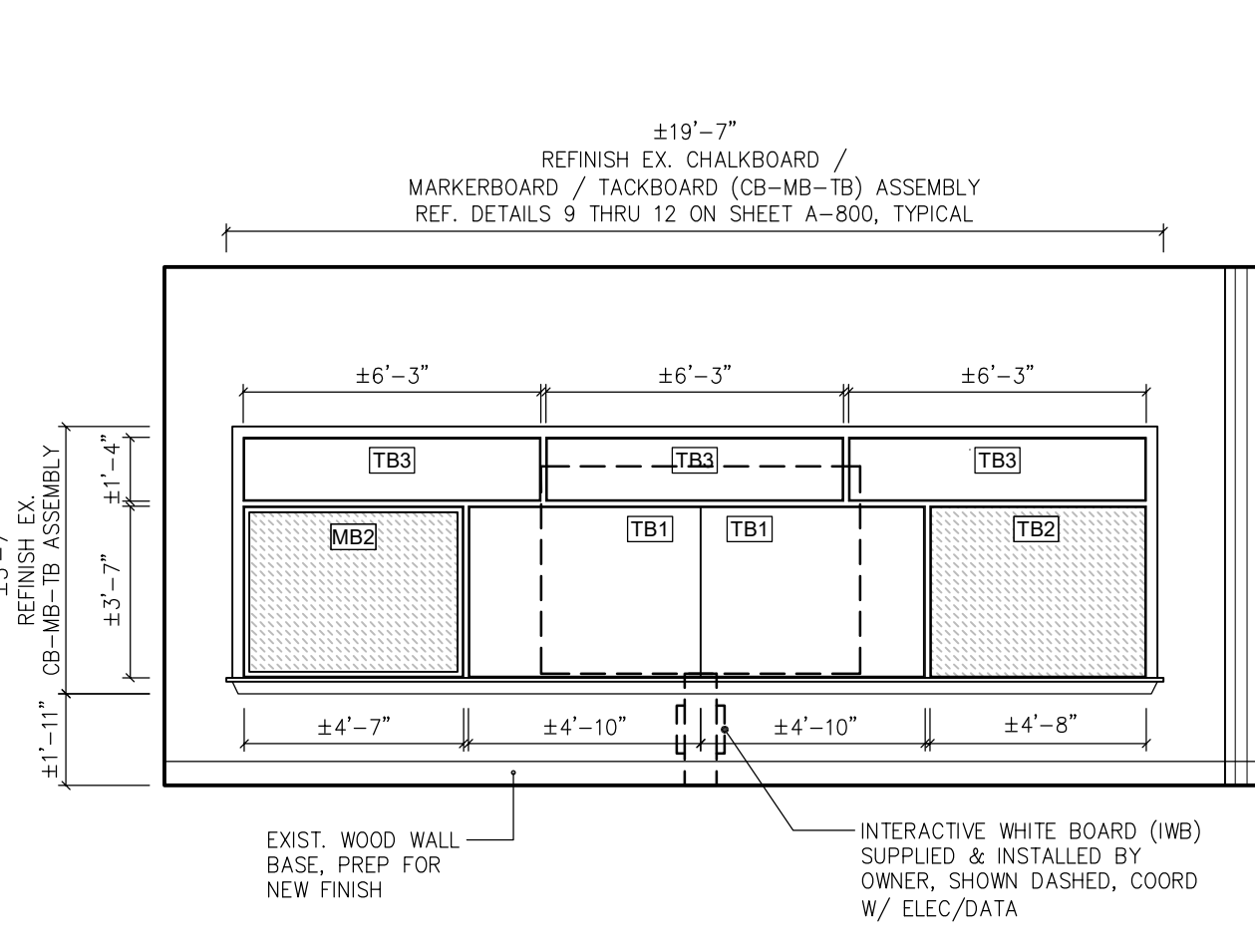
A18 CLASSROOM 103  
A-401 SCALE: 1/4" = 1'-0"



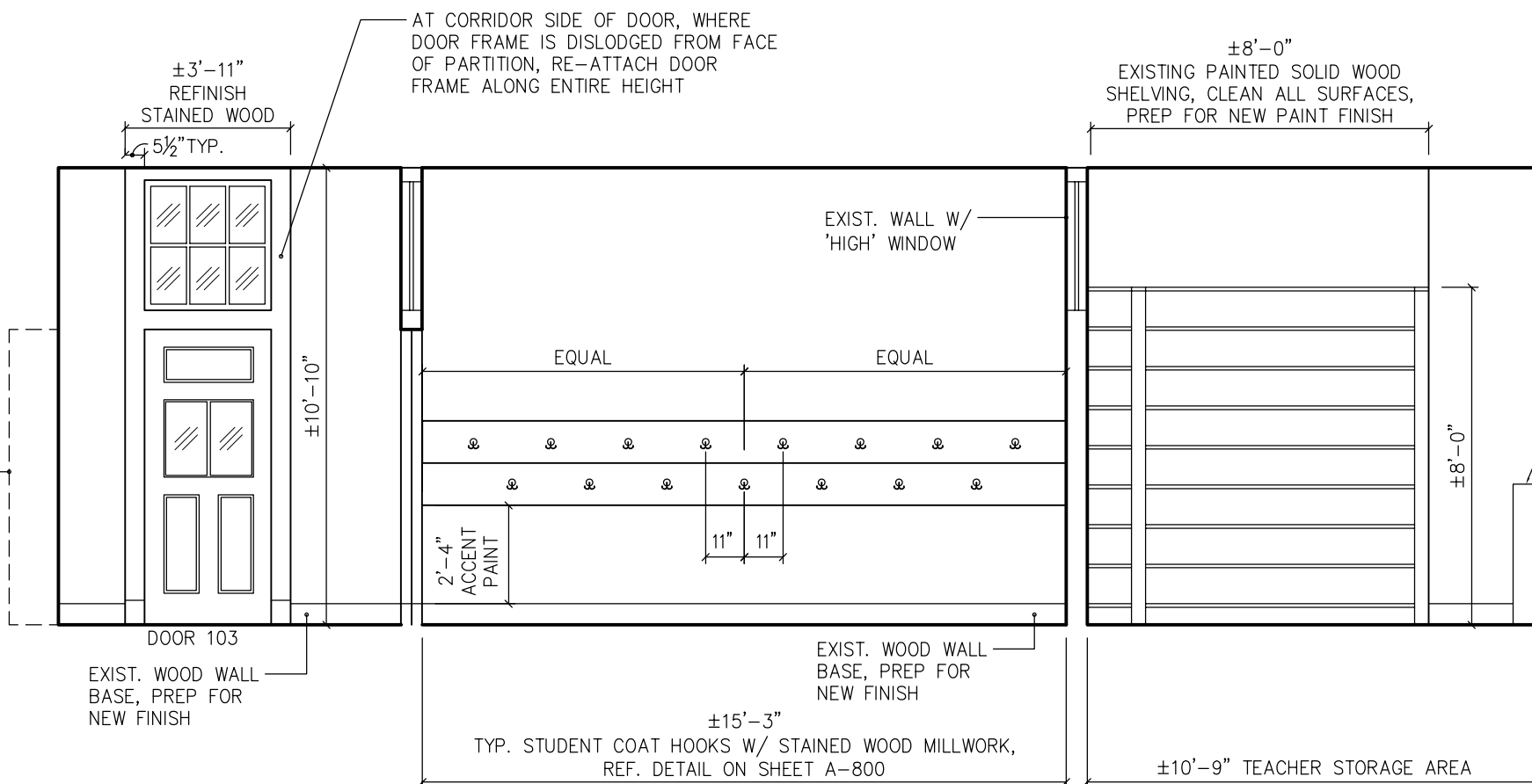
A19 CLASSROOM 103  
A-401 SCALE: 1/4" = 1'-0"



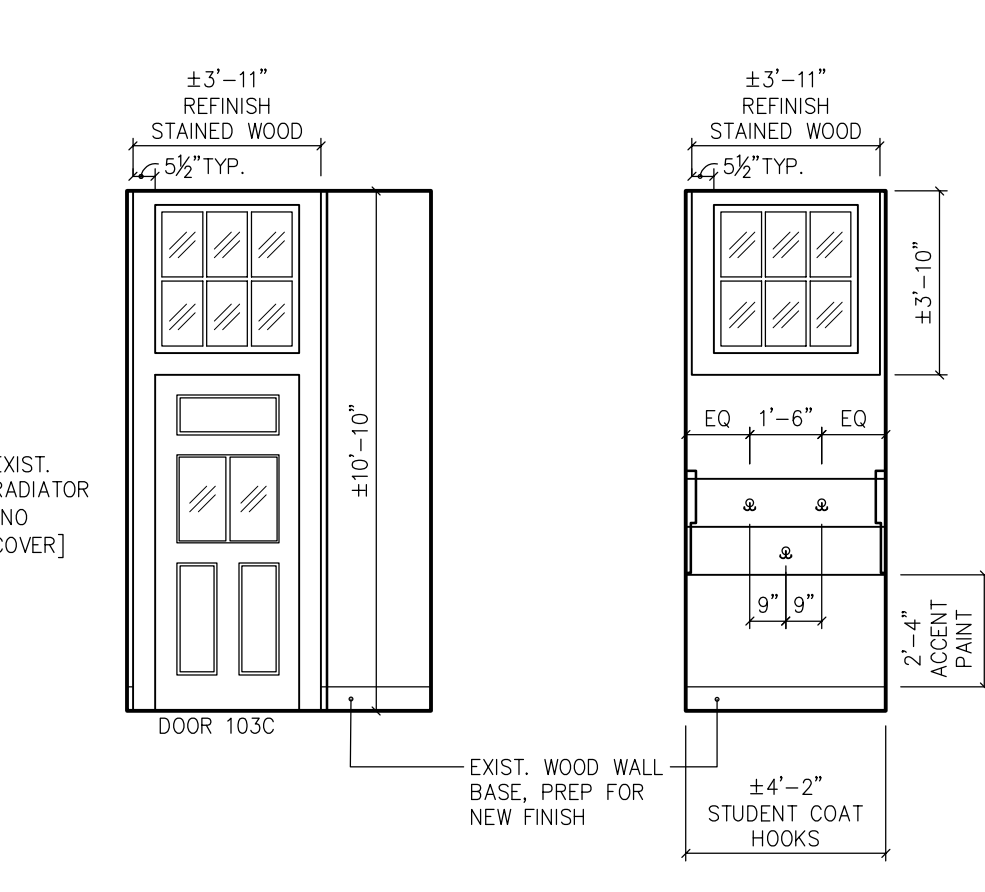
A20 CLASSROOM 103  
A-401 SCALE: 1/4" = 1'-0"



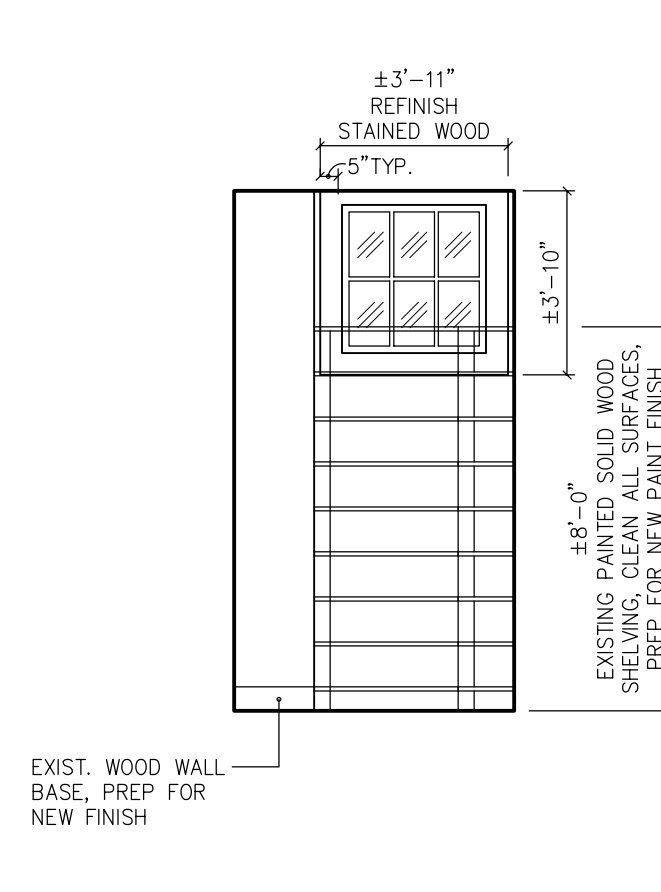
A21 CLASSROOM 103  
A-401 SCALE: 1/4" = 1'-0"



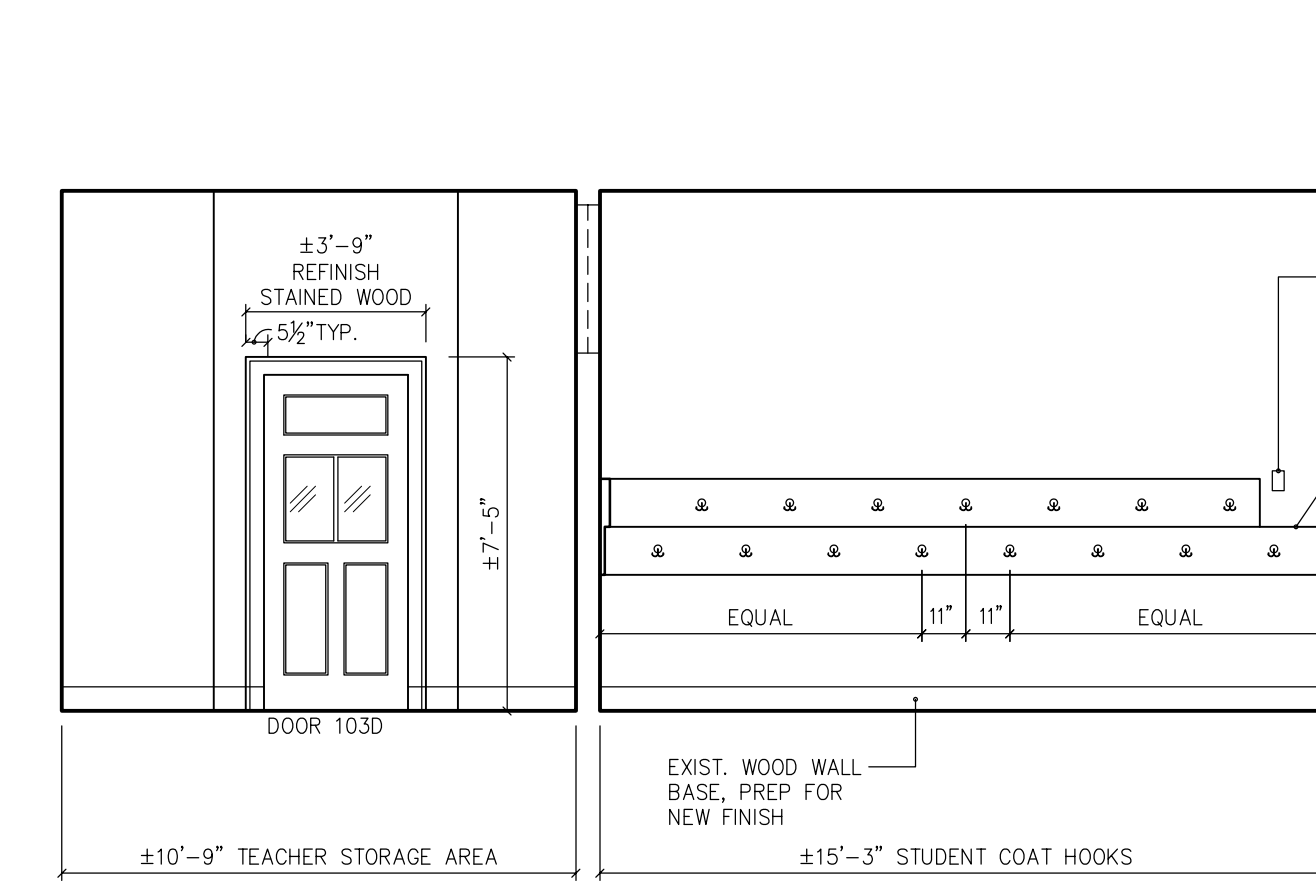
A22 CLASSROOM 103 COAT CLOSET & TEACHER STORAGE  
A-401 SCALE: 1/4" = 1'-0"



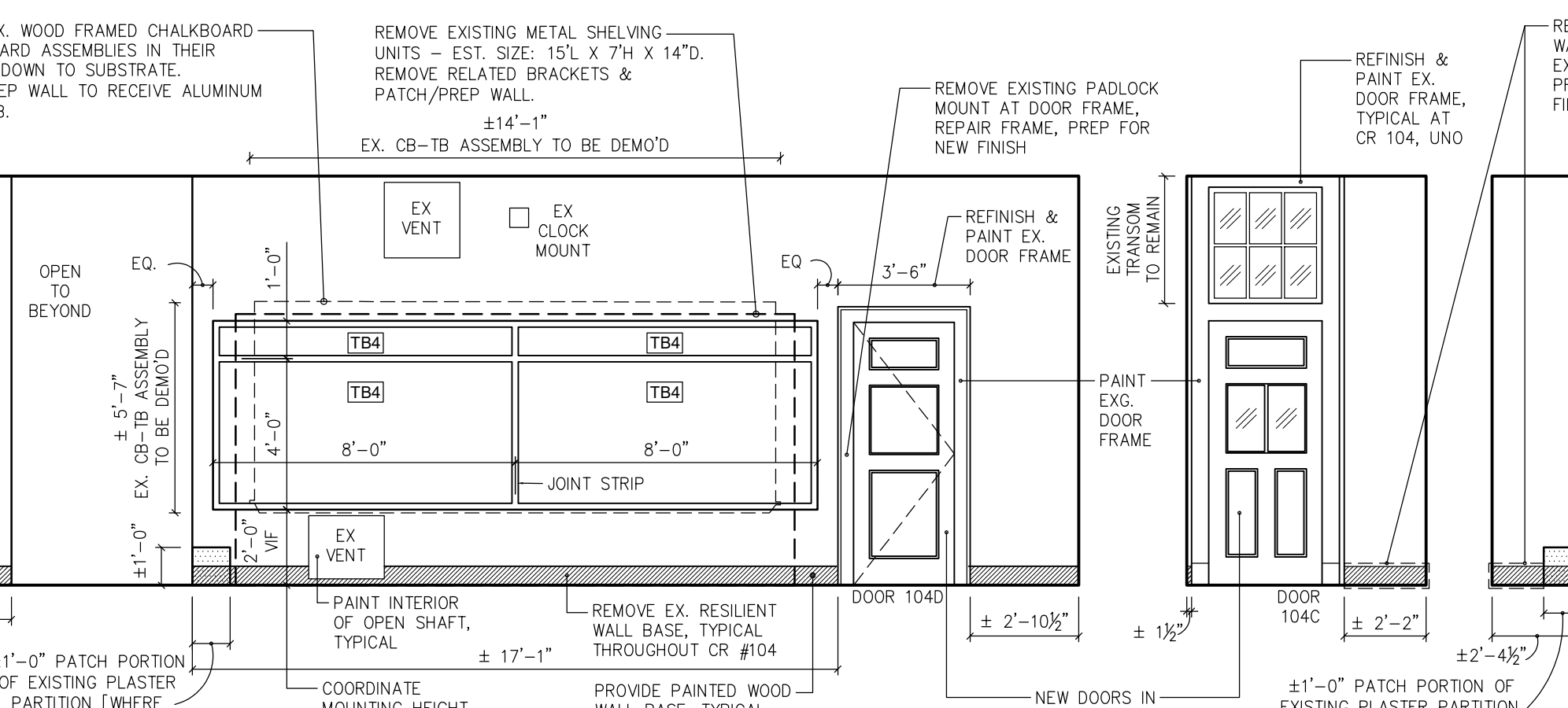
A23.1 CR 103 COAT CL  
A-401 SCALE: 1/4" = 1'-0"



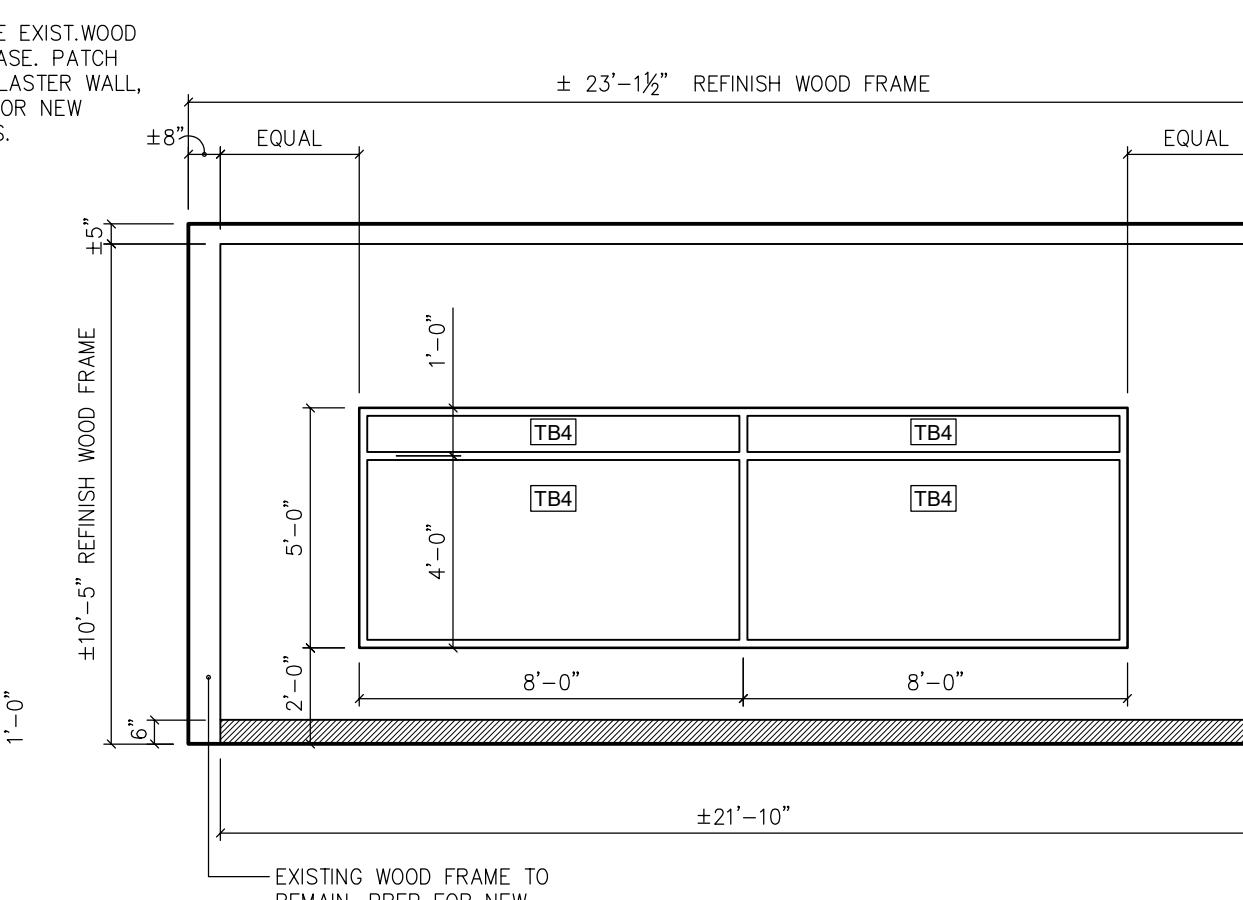
A23 CR 103 COAT CL  
A-401 SCALE: 1/4" = 1'-0"



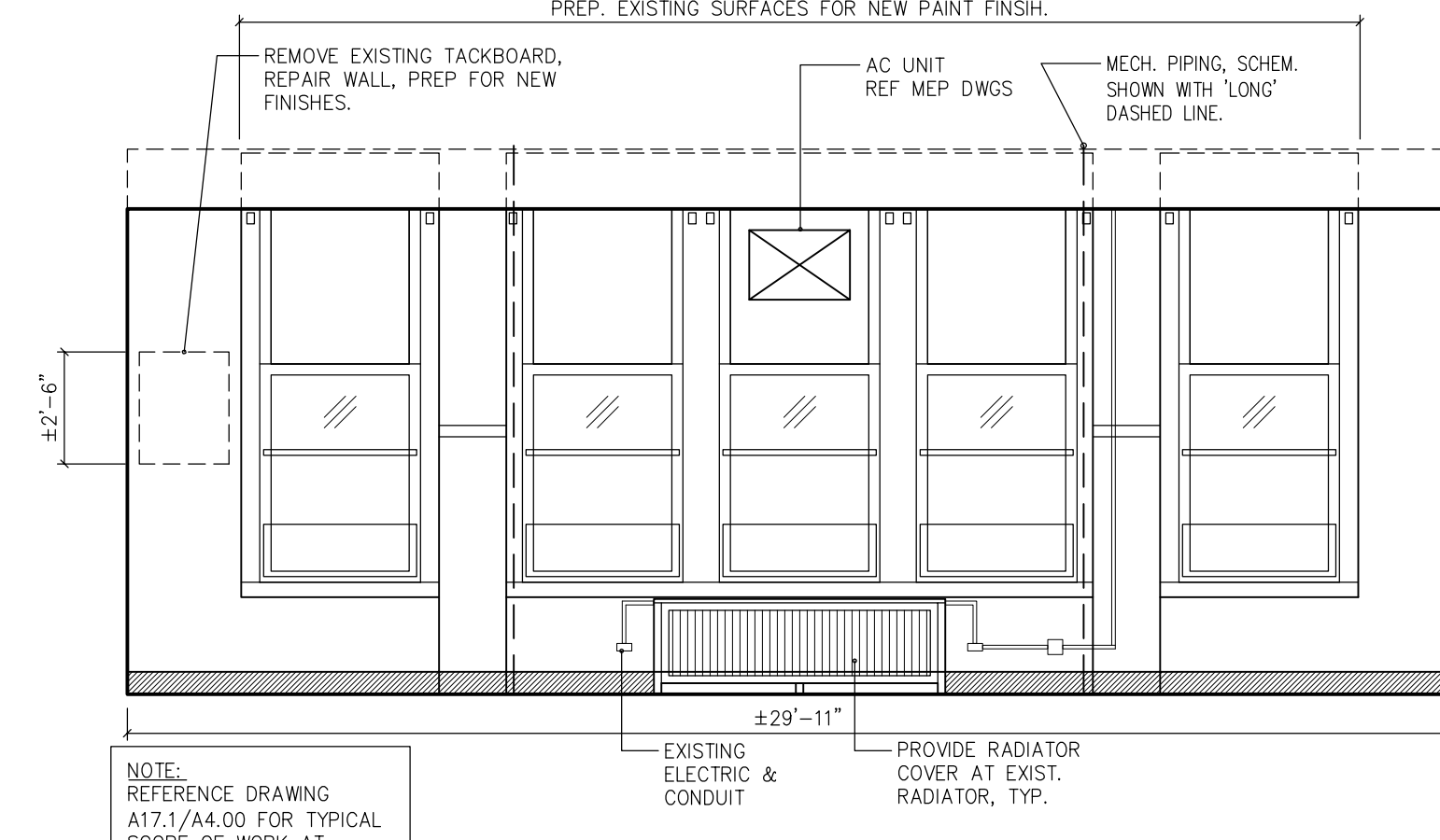
A24.1 CLASSROOM 103 COAT CLOSET & TEACHER STORAGE  
A-401 SCALE: 1/4" = 1'-0"



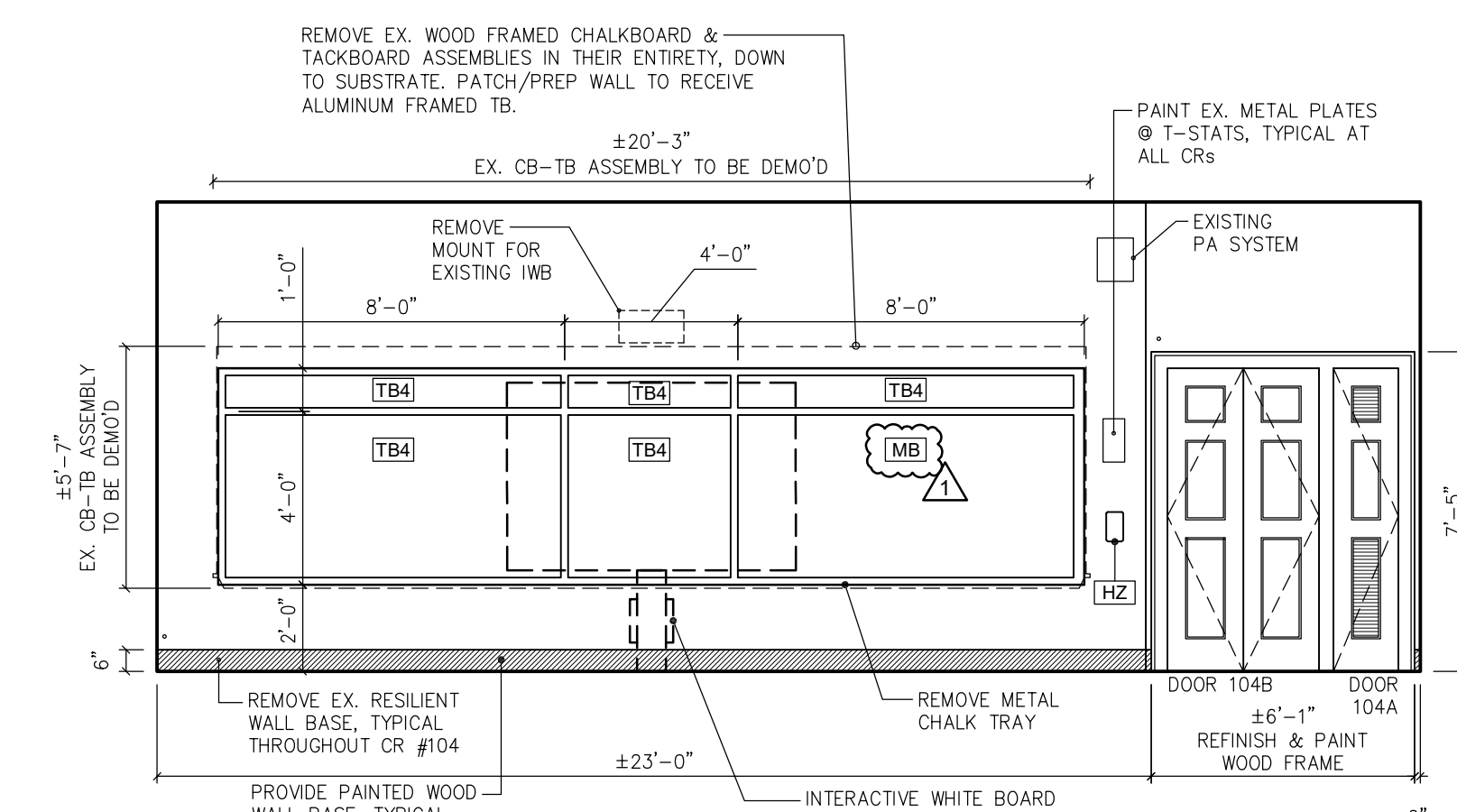
A25 CLASSROOM 104  
A-401 SCALE: 1/4" = 1'-0"



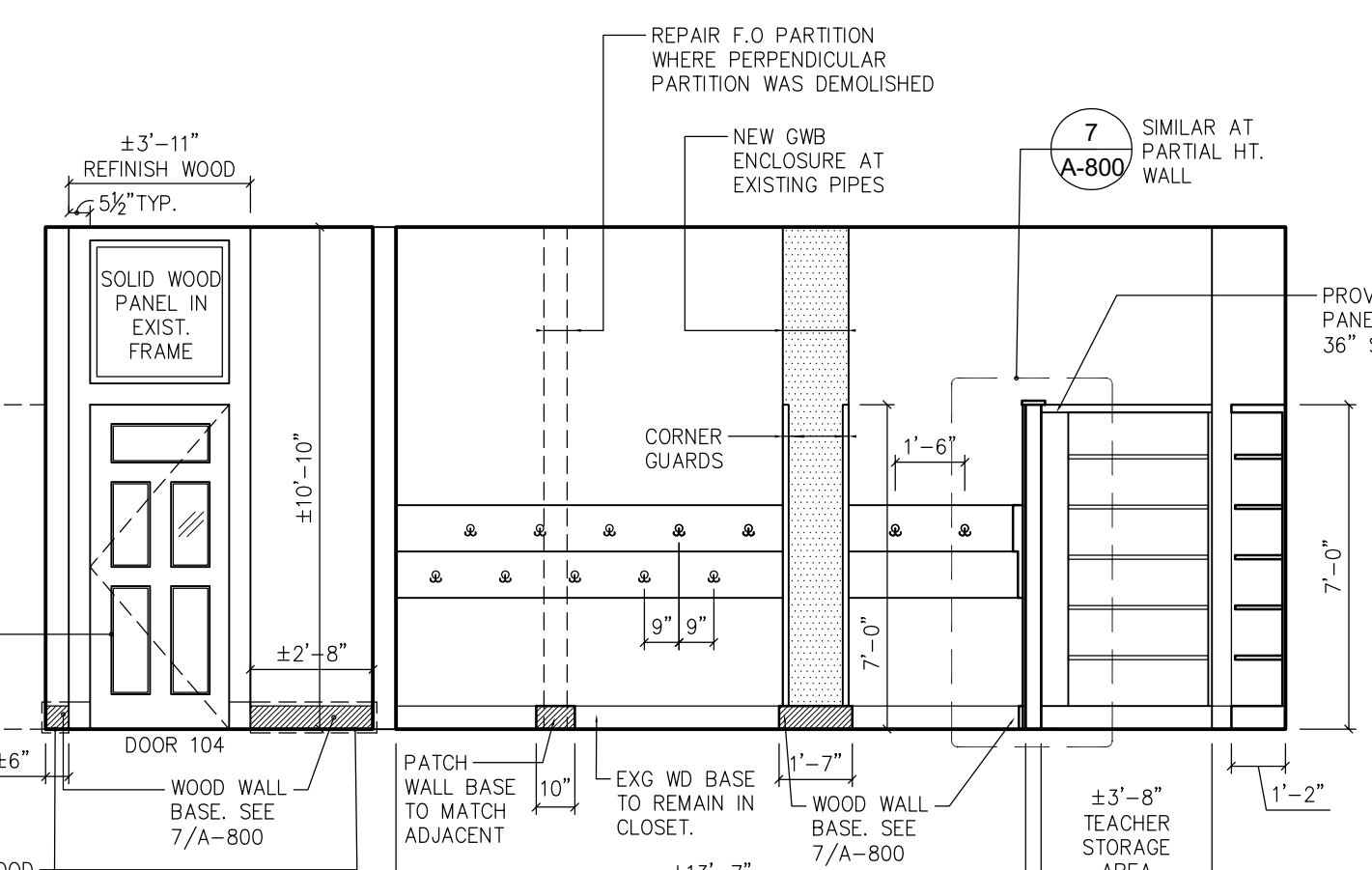
A26 CLASSROOM 104  
A-401 SCALE: 1/4" = 1'-0"



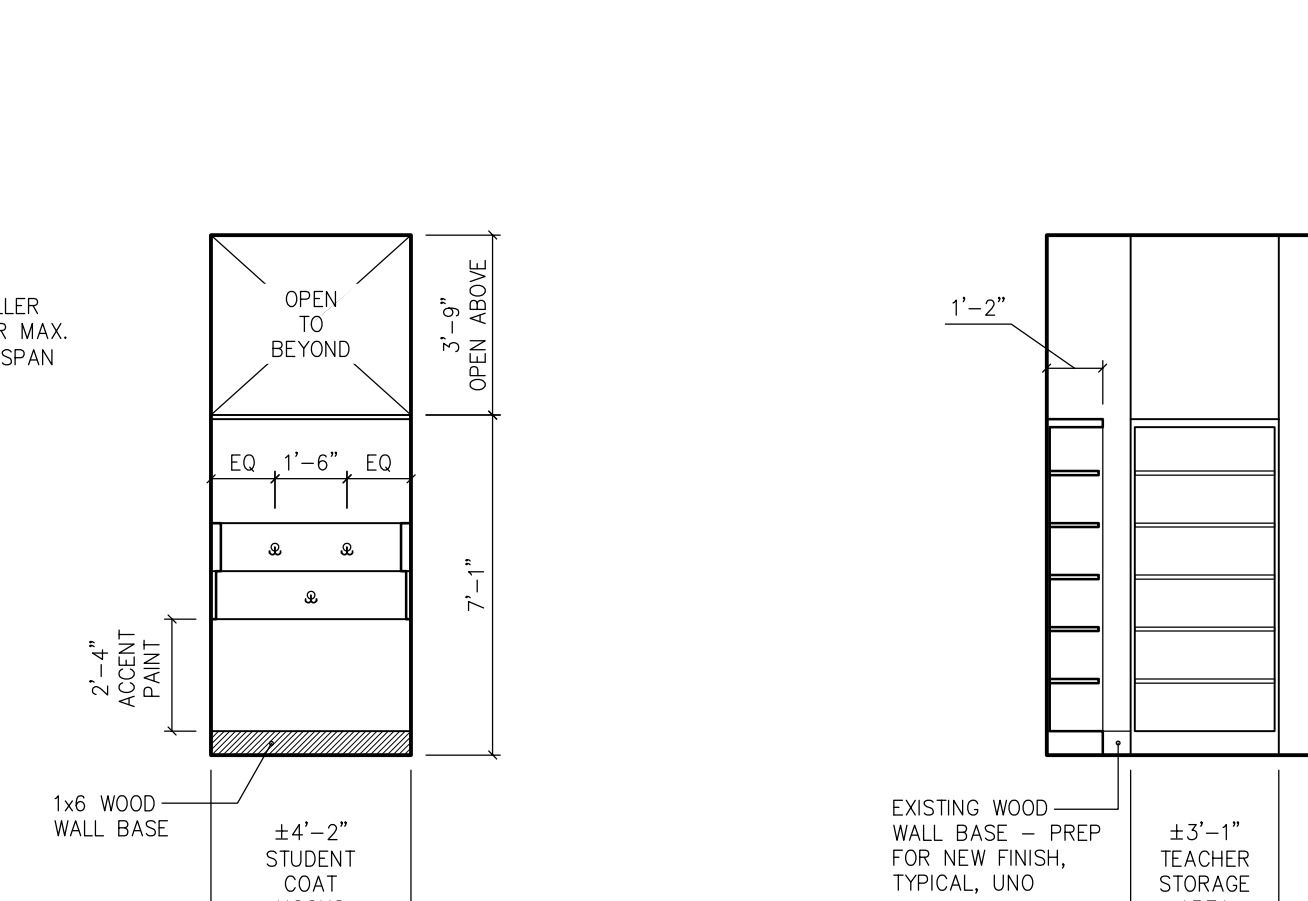
A27 CLASSROOM 104  
A-401 SCALE: 1/4" = 1'-0"



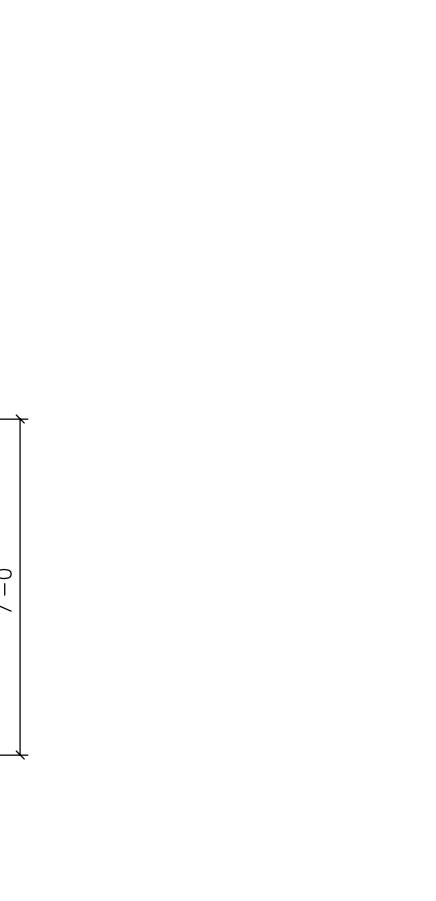
A28 CLASSROOM 104  
A-401 SCALE: 1/4" = 1'-0"



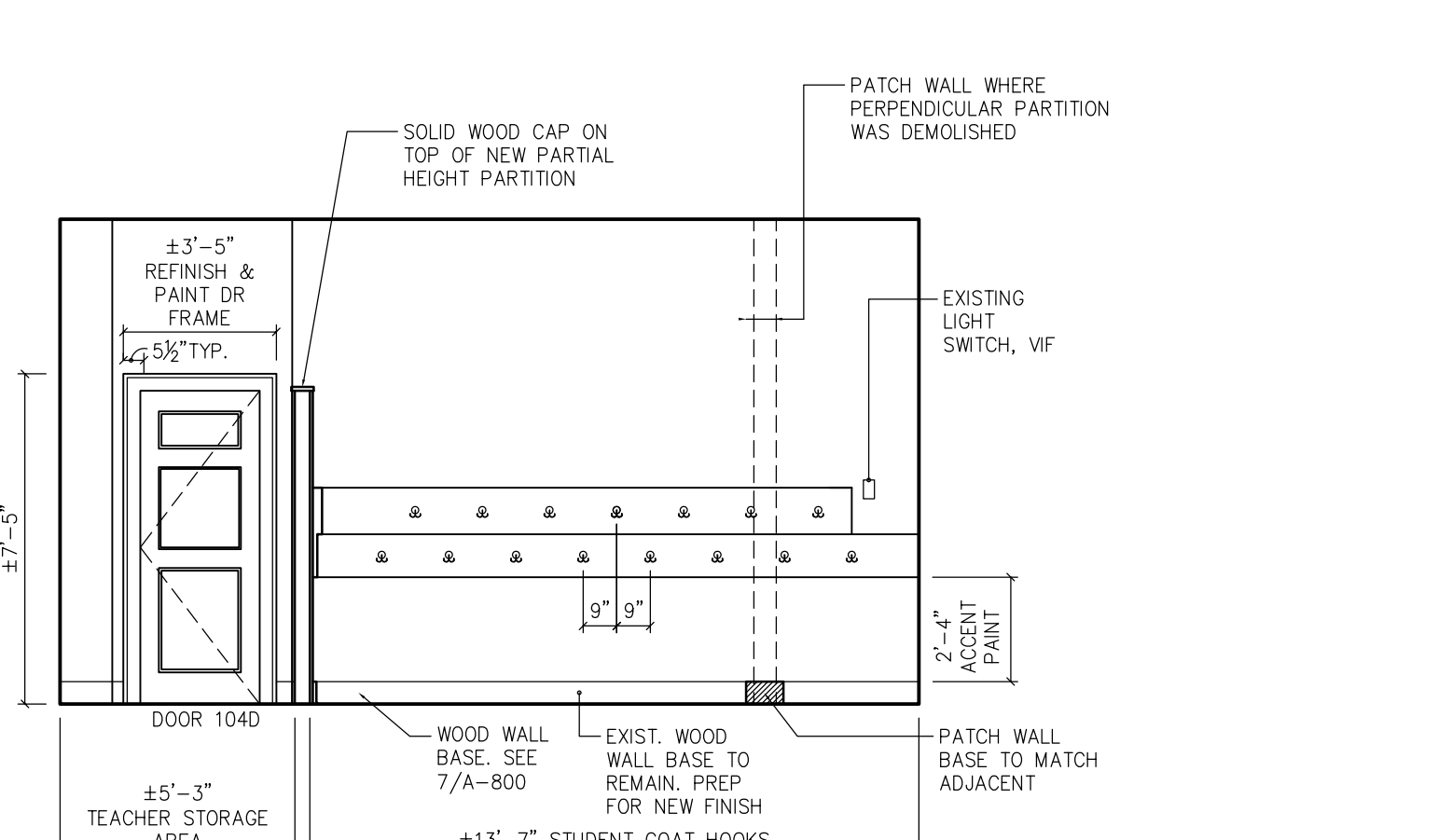
A29 CR 104 COAT CLOSET & TEACHER STORAGE  
A-401 SCALE: 1/4" = 1'-0"



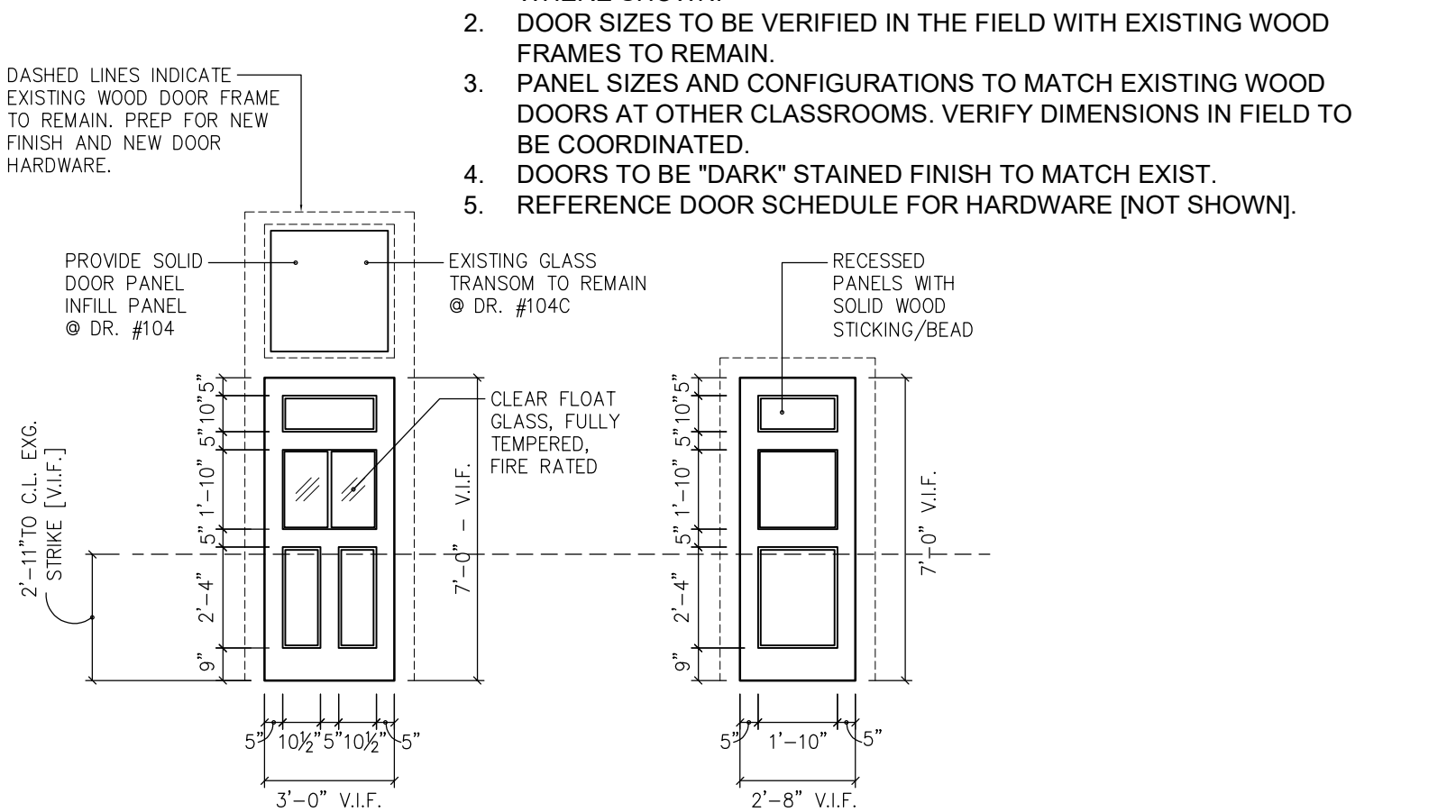
A30 CR 104 COAT CL  
A-401 SCALE: 1/4" = 1'-0"



A31 CR 104 TEACHER STOR  
A-401 SCALE: 1/4" = 1'-0"



A32 CR 104 COAT CLOSET & TEACHER STORAGE  
A-401 SCALE: 1/4" = 1'-0"



A33 ELEVATION OF NEW DOORS @ CR 104  
A-401 SCALE: 1/4" = 1'-0"

GENERAL NOTES FOR INTERIOR ELEVATIONS FOR SHEETS A-400, A-401 & A-402 - BUILDING ZONE 'A':

- REFINISH EXISTING CHALKBOARD / MARKERBOARD / TACKBOARD (CB-MB-TB) ASSEMBLIES. THIS INCLUDES:
  - REFINISHING WOOD PERIMETER TRIM, DIVIDER TRIM, & CHALK TRAY. REFERENCE DETAILS #9 THRU 12 ON SHEET A-800.
  - PREPPING / REFINISHING / REPLACING RECESSED AREAS TO RECEIVE VISUAL DISPLAY UNITS (MB2 & TB4) & RELATED FINISHES. REFERENCE SPEC #101100 & DETAILS ON SHEET A-800.
- REFINISH EXISTING WOOD DOORS, WINDOWS & RELATED TRIM. REFER TO A-300 FOR MORE INFORMATION.
- WOOD ITEMS NOTED TO BE RE-FINISHED SHALL BE RE-FINISHED ON BOTH SIDES.
- THIS INCLUDES ITEMS ALONG THE CORRIDOR: DOORS, TRANSOM WINDOWS, COAT CLOSET 'HIGH' WINDOWS AND RELATED PERIMETER TRIM & DIVIDERS.
- THIS INCLUDES PERIMETER WOOD TRIM AROUND DEMO'D OPERABLE PARTITION BETWEEN ROOMS: 204 THRU 207.
- EXISTING WALLS ARE PLASTER IN ZONE 'A'. UNO. WHERE ITEMS ARE DEMO'D / REMOVED, PATCH & PREP PLASTER FINISH TO RECEIVE NEW PAINT FINISH WHERE ITEMS ARE DEMOLISHED.

- PROVIDE WOOD MILLWORK AS INDICATED. REFER TO DETAILS ON SHEET A-800 FOR ESTIMATED PROFILE OF WOOD TRIM/FRAME.
- TB2 HATCH INDICATES EX. "TACK PANEL" & RELATED SUPPORT LOGGING TO BE REPLACED. REF. DETAIL 9/A-800

- NOTES FOR NEW WOOD DOORS IN ZONE 'A':
- PROVIDE NEW STILE & RAIL WOOD DOORS WITH GLAZING LITES WHERE SHOWN.
  - DOOR SIZES TO BE VERIFIED IN THE FIELD WITH EXISTING WOOD FRAMES TO REMAIN.
  - PANEL SIZES AND CONFIGURATIONS TO MATCH EXISTING WOOD DOORS AT OTHER CLASSROOMS. VERIFY DIMENSIONS IN FIELD TO BE COORDINATED.
  - DOORS TO BE "DARK" STAINED FINISH TO MATCH EXIST.
  - REFERENCE DOOR SCHEDULE FOR HARDWARE (NOT SHOWN).

ISSUE FOR BID

01/14/2022

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1	2.17.2022 ADDENDUM 1	
NO.	DATE	REVISION

SCHOOL & LOCATION  
**FRANCIS HOPKINSON SCHOOL**  
1301-31 E LUZERNE STREET  
PHILADELPHIA, PA 19124

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**INTERIOR ELEVATIONS & DETAILS**

DRAWING SCALE

LOCATION NO.	####
DRAWN BY	AK / AW
CHECKED BY	KG
GC - 2022-006-G	
PC - 2022-006-P	
EC - 2022-006-E	

DRAWING NO.  
**A - 401**  
SHEET 12 OF 35

SEAL:

Name: Kevin Ray Goodrich DATE: 10/22/19  
State and License No: RA0147838

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GODSHALL KANE O'ROURKE ARCHITECTS, LLC  
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ENGINEER:  
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Attn: GOPI PATEL

ISSUE FOR BID  
01/14/2022

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1	2.17.2022 ADDENDUM 1	
NO.	DATE	REVISION

SCHOOL & LOCATION  
**FRANCIS HOPKINSON SCHOOL**  
1301-31 E LUZERNE STREET  
PHILADELPHIA, PA 19124

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**INTERIOR ELEVATIONS & DETAILS**

DRAWING SCALE	
LOCATION NO.	####
DRAWN BY	CHECKED BY
AK / AW	KG

GC - 2022-006-G  
PC - 2022-006-P  
EC - 2022-006-E

DRAWING NO.  
**A - 402**  
SHEET 13 OF 35



**A34 CLASSROOM 109**  
SCALE: 1/4" = 1'-0"

**A35 CLASSROOM 109**  
SCALE: 1/4" = 1'-0"

**A36 CLASSROOM 109**  
SCALE: 1/4" = 1'-0"

**A37 CLASSROOM 109**  
SCALE: 1/4" = 1'-0"

**A38 CLASSROOM 109 CLOSET**  
SCALE: 1/4" = 1'-0"

**A38.1 CR 109 COAT CLO**  
SCALE: 1/4" = 1'-0"

**A39 CR 109 CLOSET**  
SCALE: 1/4" = 1'-0"

**A40 CR 109 CLOSET**  
SCALE: 1/4" = 1'-0"

**A41 CR 109 CLOSET**  
SCALE: 1/4" = 1'-0"

**A42 CR 109 CLOSET**  
SCALE: 1/4" = 1'-0"

**A43 CLASSROOM 205 [CLASSROOM 206, SIMILAR]**  
SCALE: 1/4" = 1'-0"

**A43.1 CR 205**  
SCALE: 1/4" = 1'-0"

**A44 CLASSROOM 205 [CLASSROOM 206, SIMILAR]**  
SCALE: 1/4" = 1'-0"

**A45 CLASSROOM 205 [CLASSROOM 206, SIMILAR]**  
SCALE: 1/4" = 1'-0"

**A46 CLASSROOM 204**  
SCALE: 1/4" = 1'-0"

**A47 CLASSROOM 205 [CLASSROOMS 206, SIM.]**  
SCALE: 1/4" = 1'-0"

**A48 CLASSROOM 205 COAT CLOSET [CLASSROOM 206 SIMILAR, UNO]**  
SCALE: 1/4" = 1'-0"

**A49 CR 205 CLOS (206 SIM)**  
SCALE: 1/4" = 1'-0"

**A50 CR 205 CLOS**  
SCALE: 1/4" = 1'-0"

**A51 CR 205 CLOS**  
SCALE: 1/4" = 1'-0"

**A52 CLASSROOM 205 COAT CLOSET [CR 206 SIM]**  
SCALE: 1/4" = 1'-0"

GENERAL INTERIOR ELEVATION NOTES:  
1. REFERENCE A-100 FOR DESIGNATIONS/DESCRIPTION OF NEW TACKBOARDS AND MARKERBOARDS - 'TBB', 'MBA', REFERENCE DETAIL 9/4-A-800 FOR SCOPE OF WORK AT TACKBOARDS AND MARKERBOARDS.  
2. CORRIDOR ELEVATIONS ARE NOTE SHOWN WHERE 'REFINISH WOOD FRAME' NOTE IS INDICATED, BOTH SIDES OF WOOD FRAME (FOR DOOR / WINDOW) ARE TO BE REFINISHED.

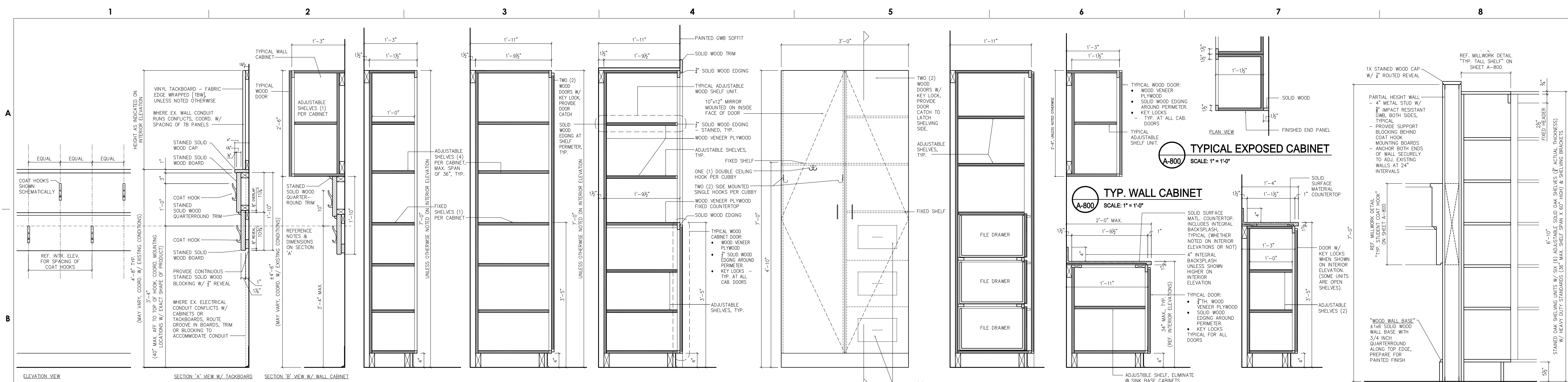
GENERAL NOTES FOR INTERIOR ELEVATIONS...  
(REFER TO SHEET A-401)

SEAL:

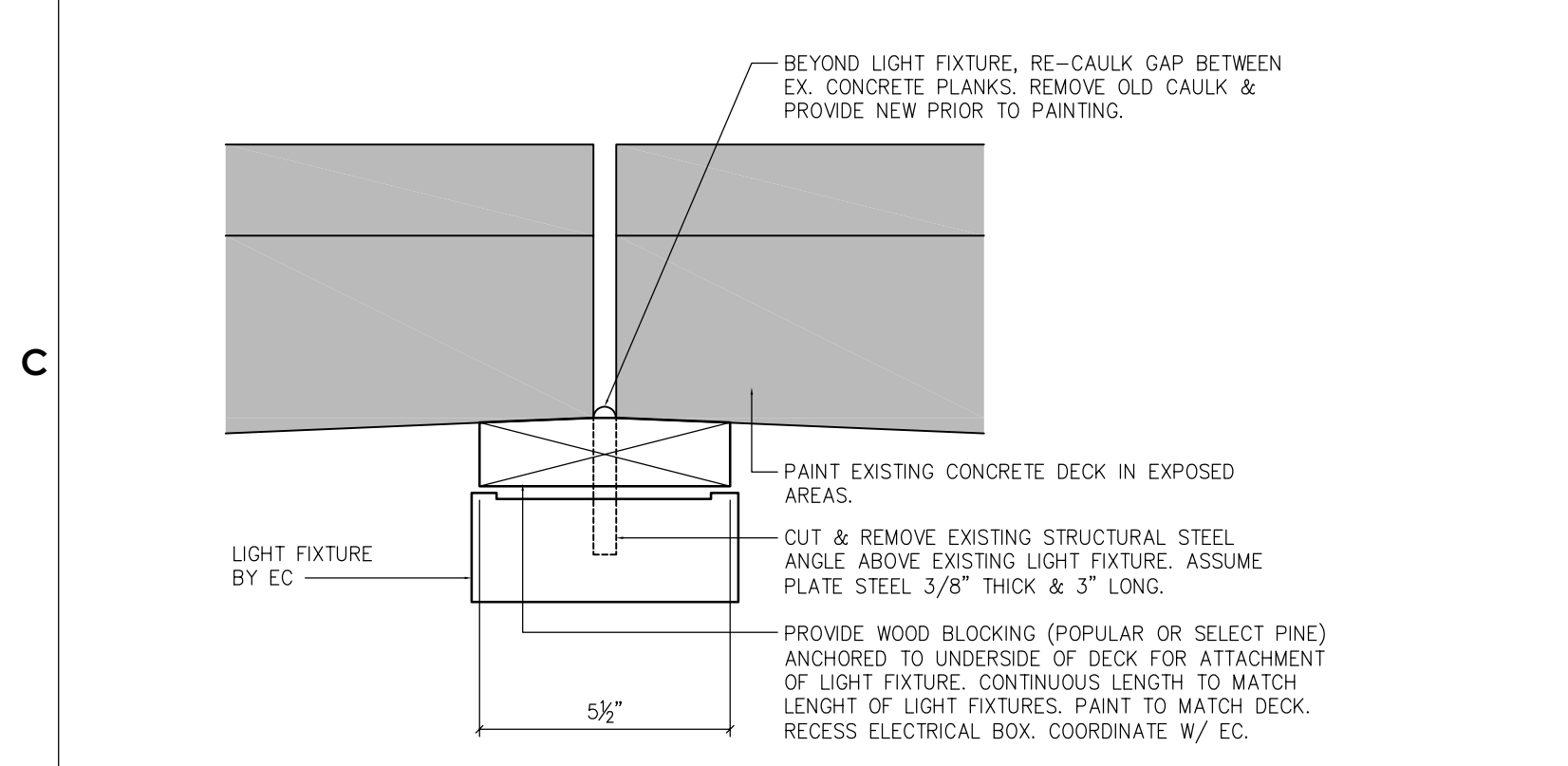
Home: Kevin Ray Goodhall DATE: 10/22/19  
State and License No: RA014793X

ARCHITECT:  
GOSHALL KANE O'ROURKE ARCHITECTS, LLC  
(GKO ARCHITECTS)  
300 BROOKSIDE AVENUE - BLDG. 18 - SUITE 150  
PHILADELPHIA, PA 19102  
Phone: 215.446.2003  
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Attn: ALLISON KLINGLER, RA

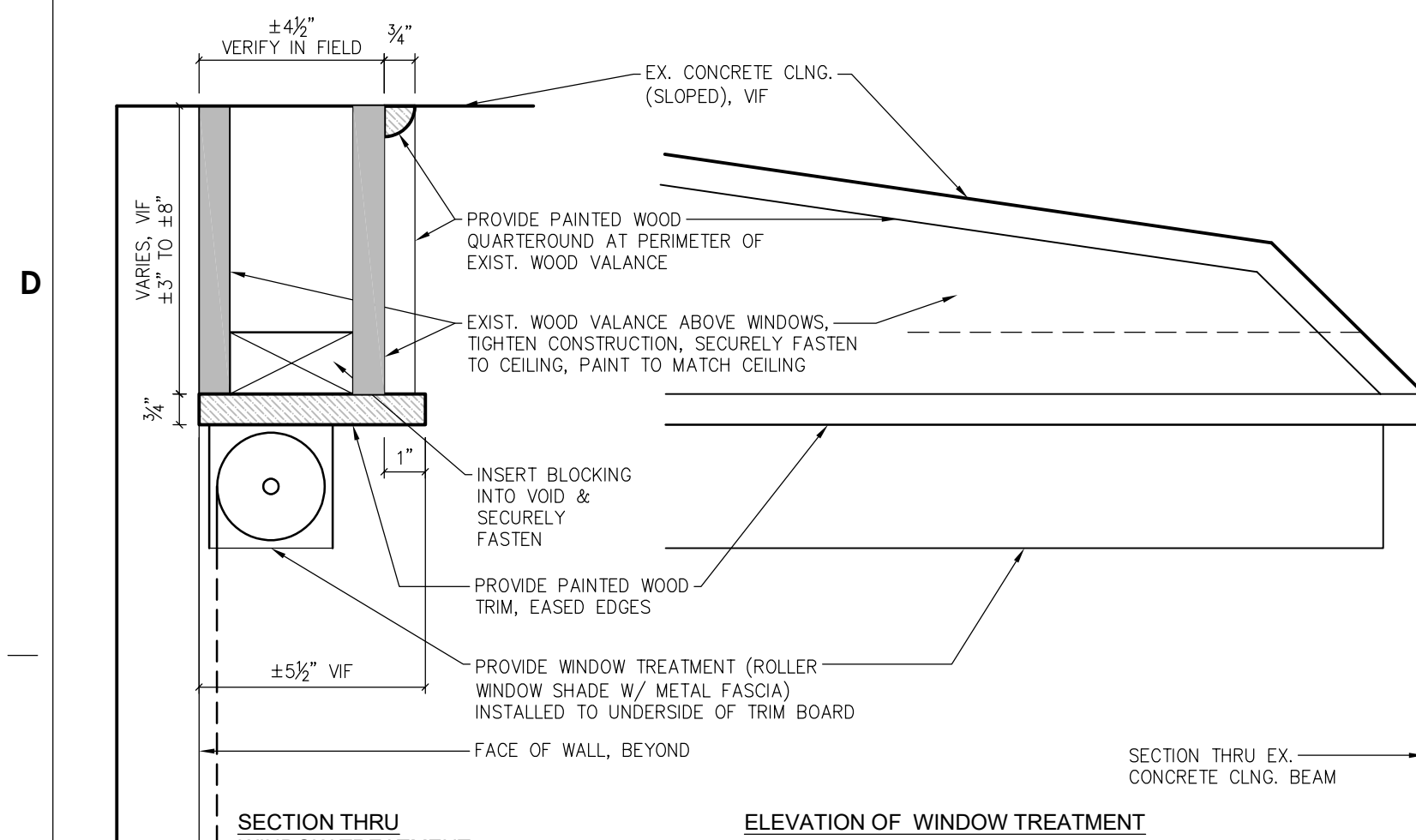
MECHANICAL / PLUMBING / ELECTRICAL  
ENGINEER:  
PSQUARE CONSULTING ENGINEERS  
920 GERMANTOWN PIKE, SUITE 20  
PLYMOUTH MEETING, PA 19462  
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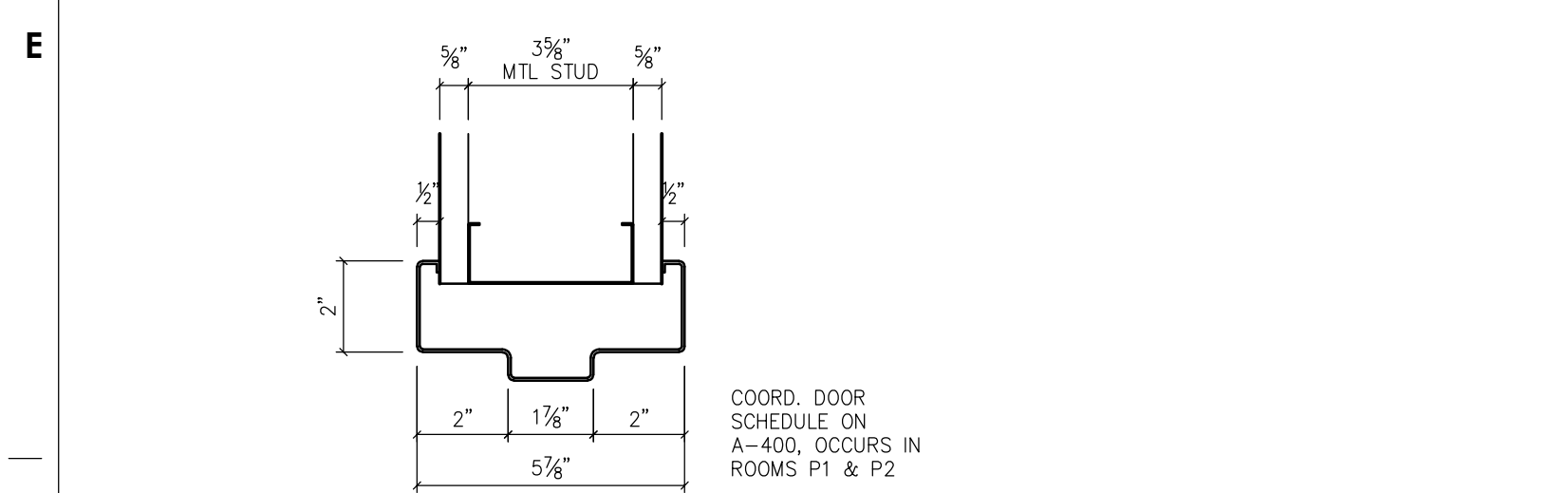
**A-800 TYP. STUDENT COAT HOOKS** SCALE: 1" = 1'-0"  
**A-800 TYP. TALL SHELF** SCALE: 1" = 1'-0" W/O DOORS  
**A-800 TYP. TALL CABINET** SCALE: 1" = 1'-0" W/ DOORS  
**A-800 TYP. TALL CABINET / SHELF** SCALE: 1" = 1'-0"  
**A-800 TYP. TEACHER WARDROBE** SCALE: 1" = 1'-0"  
**A-800 TYP. BASE CABINET** SCALE: 1" = 1'-0"  
**A-800 TYP. MID-HEIGHT CABINET / SHELF** SCALE: 1" = 1'-0"  
**7 A-800 DETAIL @ COAT CL. / TEACH. STOR.** SCALE: 1" = 1'-0" OCCURS IN CLASSROOMS 102, 103, 104, 109, 205, AND 206



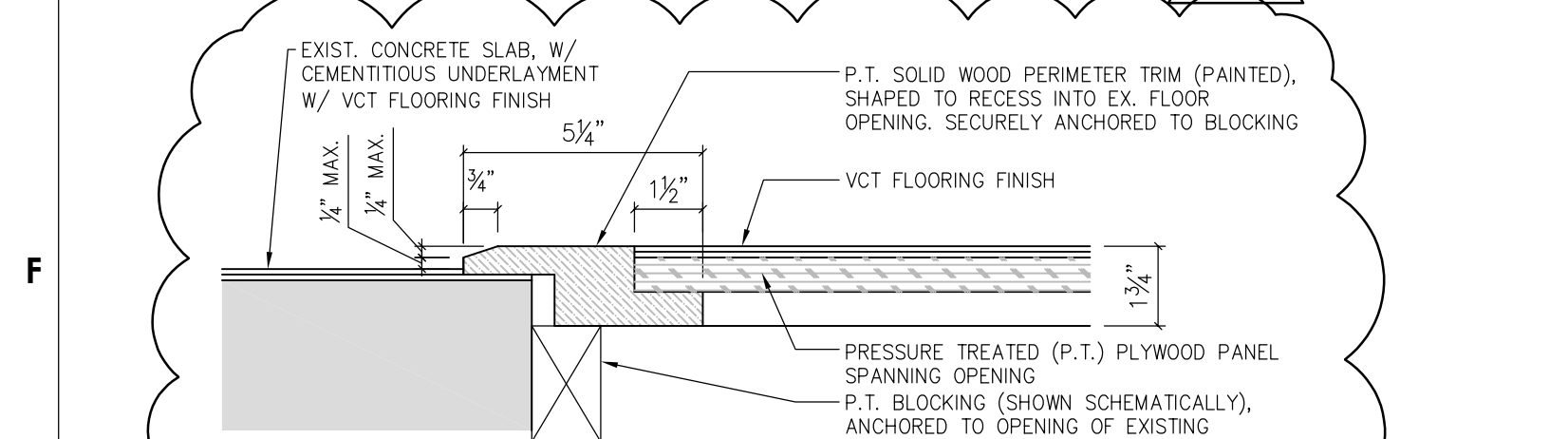
**1 A-800 ZONE 'B' - DETAIL @ LIGHT FIXTURE** SCALE: 3" = 1'-0" OCCURS IN ROOMS P1, P2, P3, AND P3.2



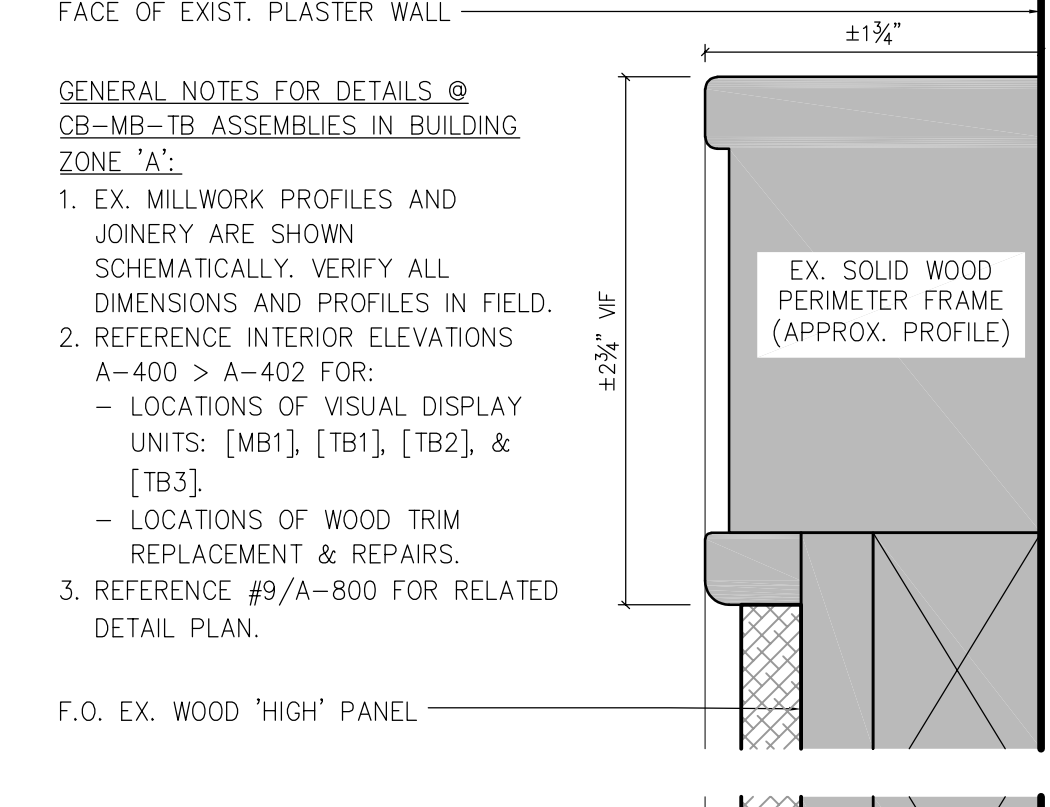
**2 A-800 ZONE 'B' - DETAIL @ WINDOW TREATMENT (WT-2)** SCALE: 3" = 1'-0" OCCURS IN CLASSROOMS P1 & P2



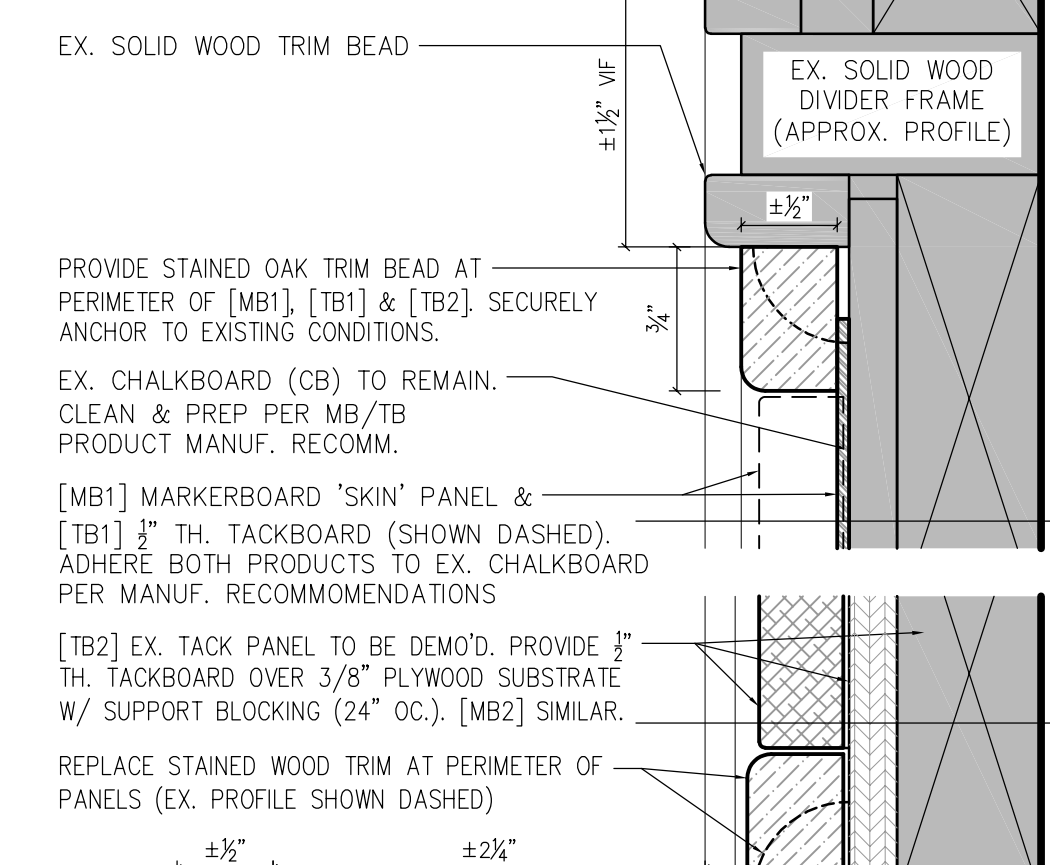
**3 A-800 HM FRAME - TYPE 'I'** SCALE: 3" = 1'-0"



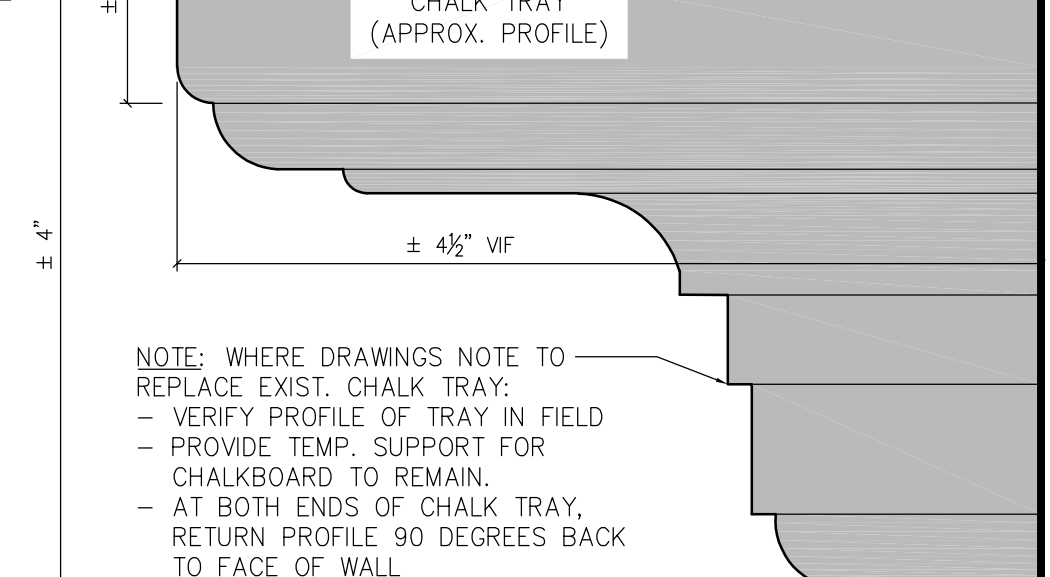
**4 A-800 ZONE-B - RECESSED FLOOR PANEL** SCALE: 3" = 1'-0"



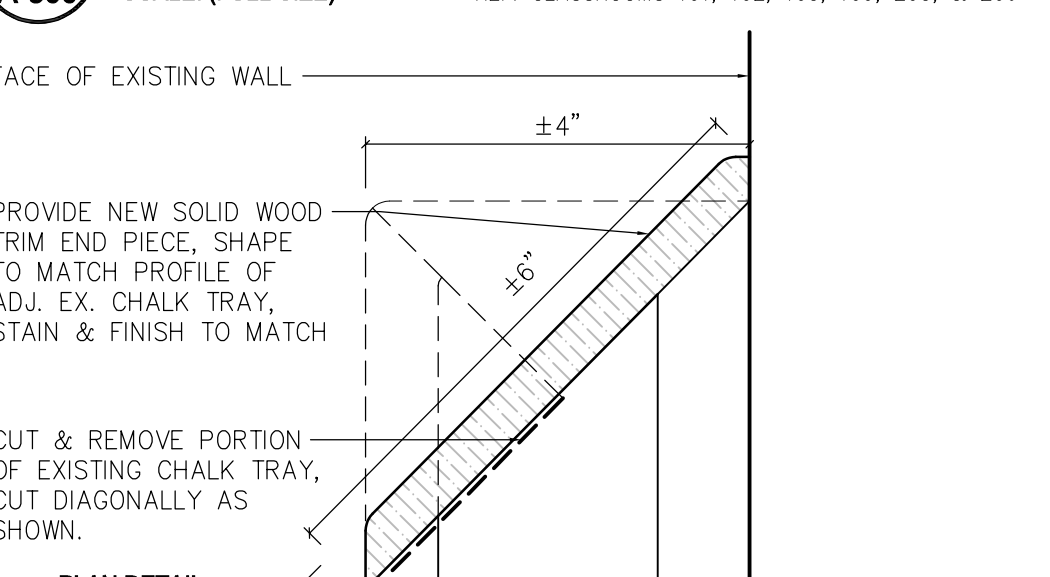
**12 A-800 CEILING EDGE @ 'WINDOW WALL' - ZONE 'A'** SCALE: 1 1/2" = 1'-0" OCCURS IN CLASSROOMS 101, 102, 103, 104, 109, 205, AND 206



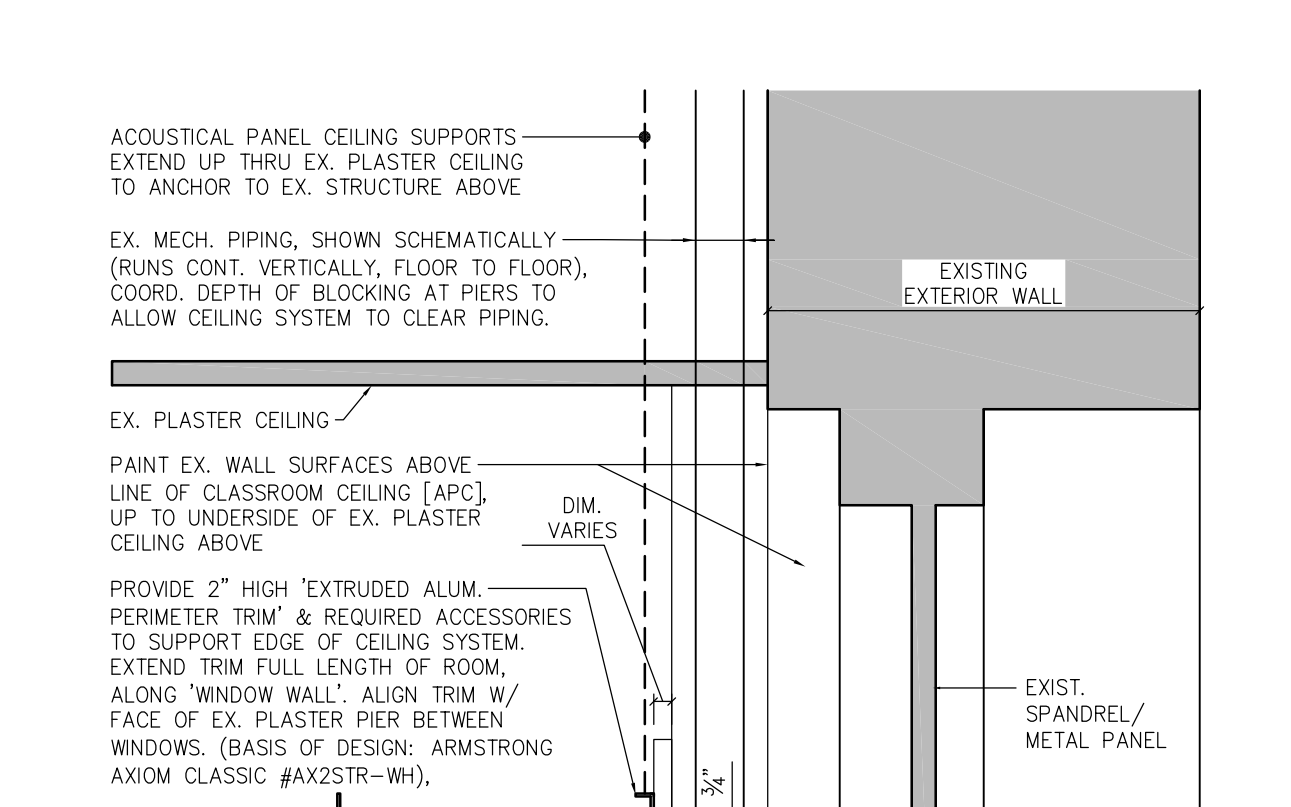
**10 A-800 MILLWORK DTL @ CB-MB-TB ASSEMB.** SCALE: (FULL SIZE) REF. CLASSROOMS 101, 102, 103, 109, 205, & 206



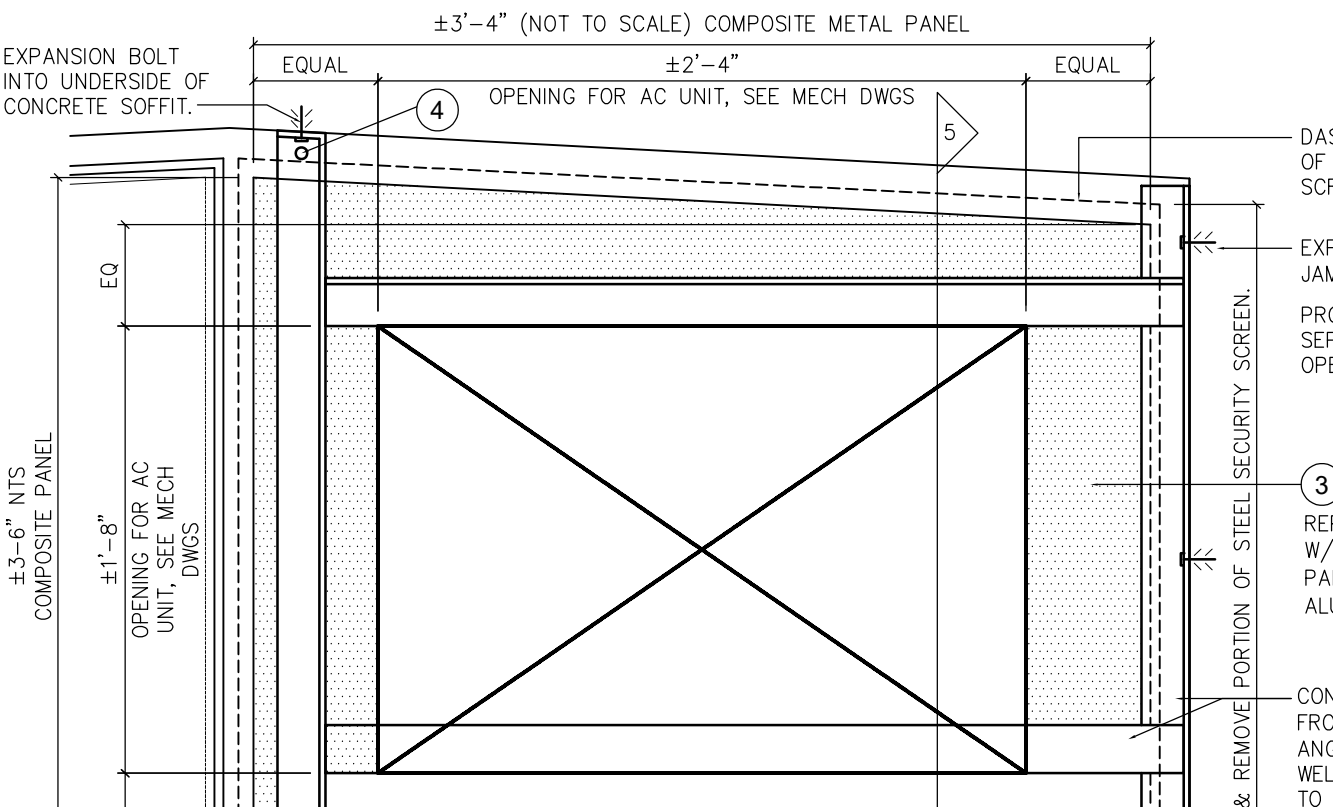
**11 A-800 WOOD BASE @ ZONE 'A'** SCALE: (FULL SIZE) REF. INTR. ELEV. FOR LOCATIONS



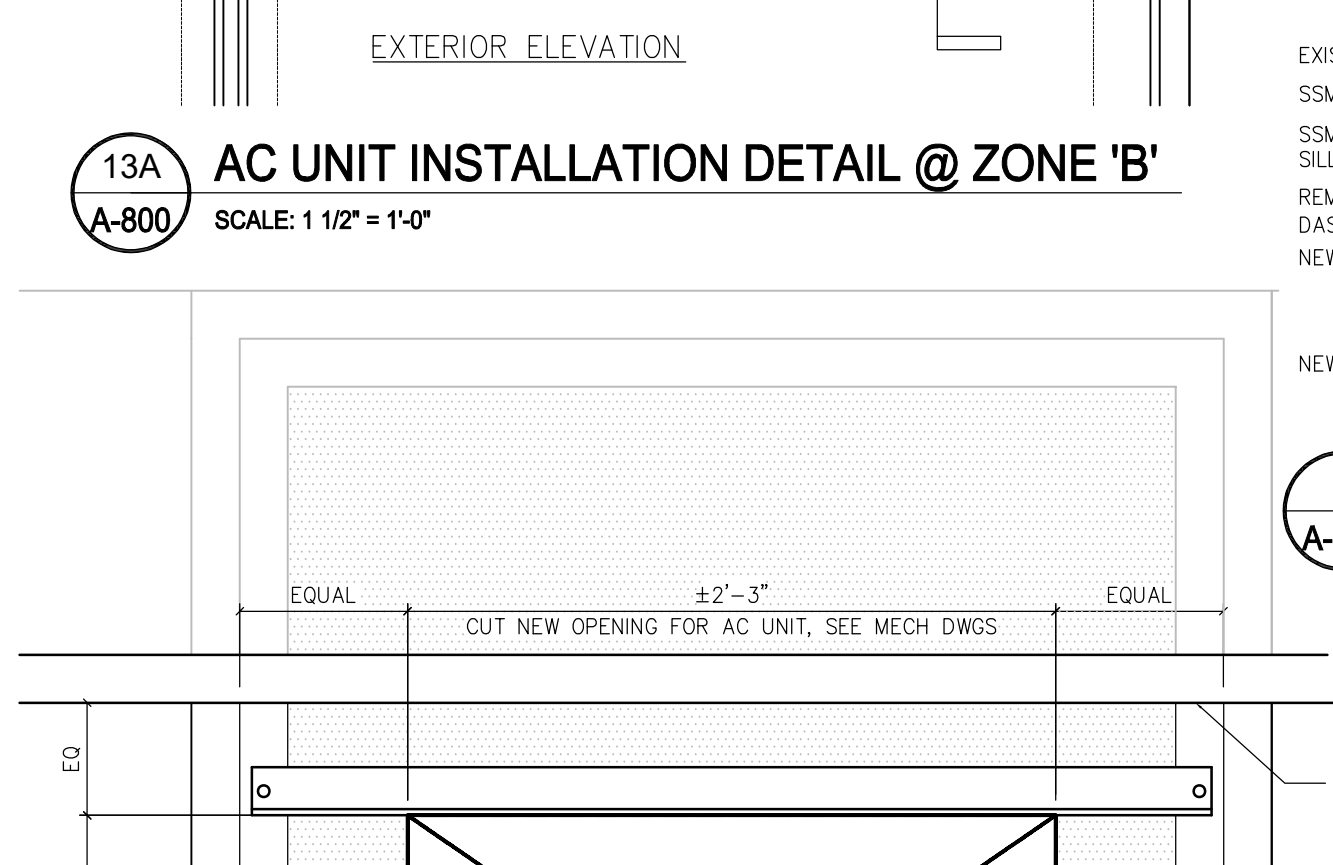
**10A A-800 MW DTL @ ZONE 'A' - EX. CHALK TRAY** SCALE: (HALF SIZE) REF. CLASSROOMS 206



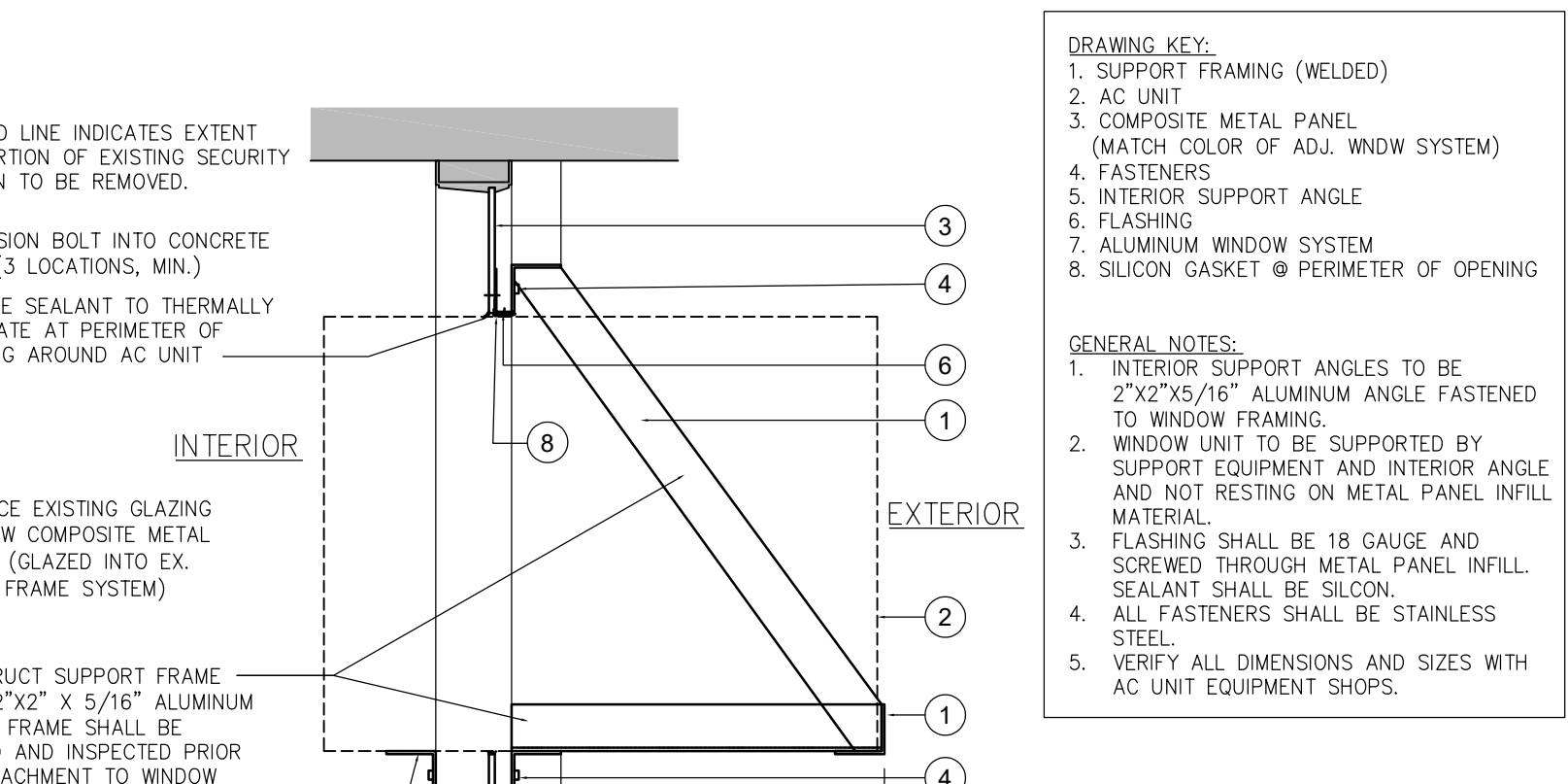
**9 A-800 ZONE 'A' - SCHEMATIC DETAIL PLAN @ CB-TB-MB ASSEMBLIES (MB# & TB#)** SCALE: 3" = 1'-0" NOTE: THIS DRAWING DIAGRAMS VARIOUS CONDITIONS, REF. INTR. ELEVATIONS A-400 > A-402 FOR LOCATIONS OF MB#/TB#.



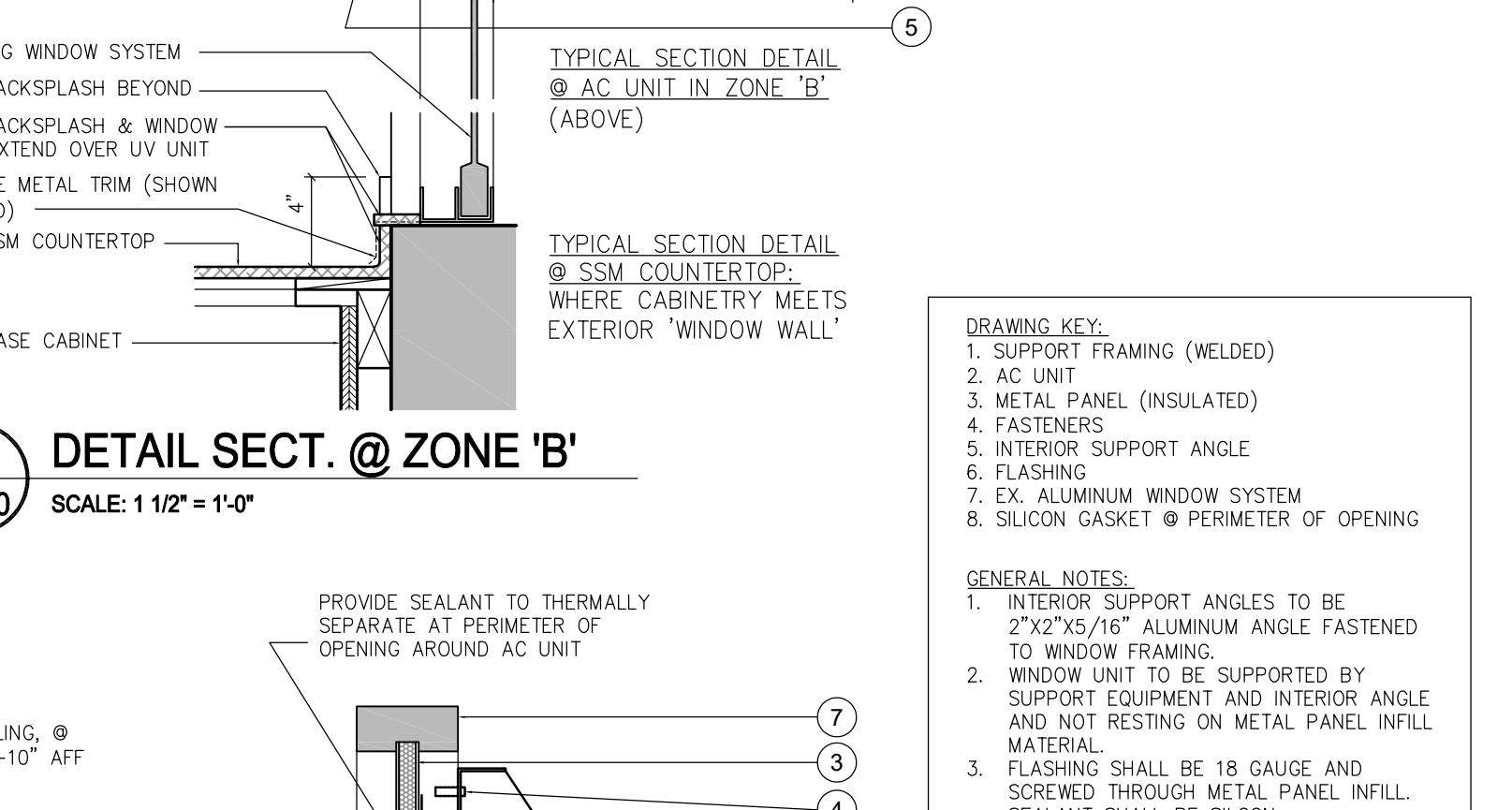
**13A A-800 AC UNIT INSTALLATION DETAIL @ ZONE 'B'** SCALE: 1 1/2" = 1'-0"



**13 A-800 AC UNIT INSTALLATION DETAIL @ ZONE 'A'** SCALE: 1 1/2" = 1'-0"



**5 A-800 DETAIL SECT. @ ZONE 'B'** SCALE: 1 1/2" = 1'-0"



**6A A-800 DETAIL @ COAT CL.** SCALE: 1" = 1'-0"

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1	2.17.2022 ADDENDUM 1	
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SCHOOL & LOCATION  
**FRANCIS HOPKINSON SCHOOL**  
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PHILADELPHIA, PA 19124

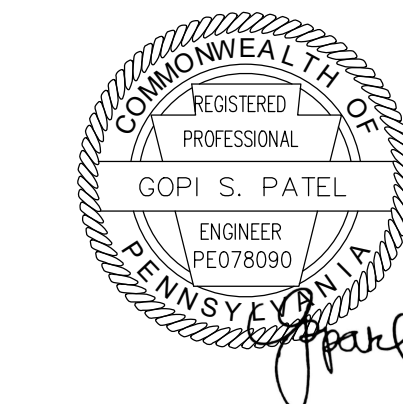
PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**DETAILS**

DRAWING SCALE	
LOCATION NO.	###
DRAWN BY	AK / AW
CHECKED BY	KG
GC - 2022-006-G	
PC - 2022-006-P	
EC - 2022-006-E	

DRAWING NO.  
**A - 800**  
SHEET 17 OF 35

SEAL:



Name: Kevin Ray Goodhart STATE AND LICENSE NO: RAD14763X DATE: 10/22/1996

**ARCHITECT:**  
 GODSHALL KANE O'ROURKE ARCHITECTS, LLC  
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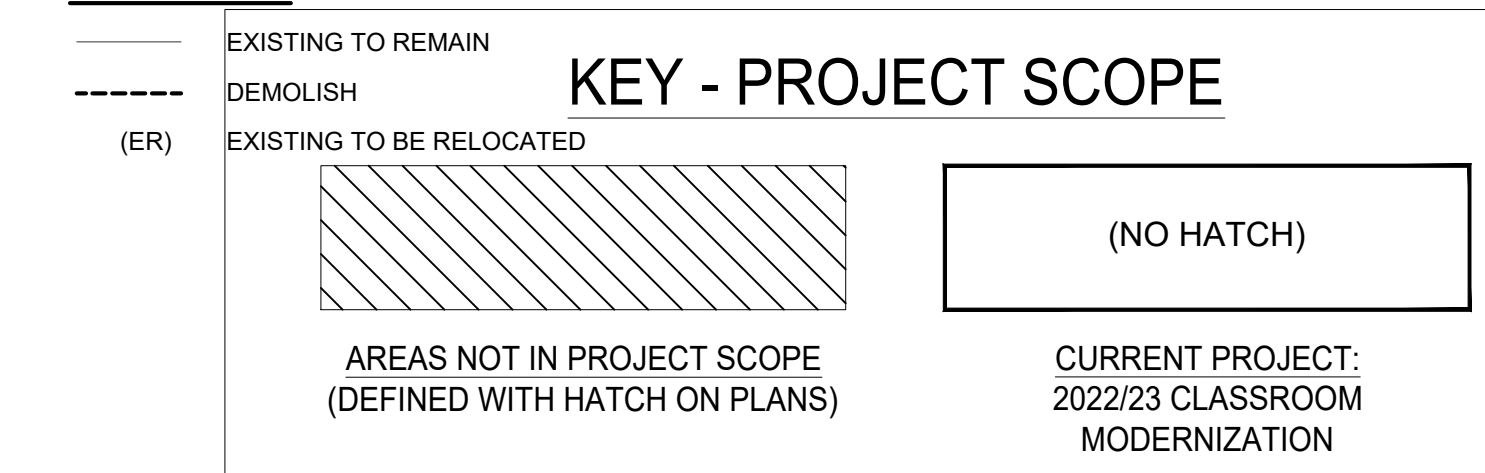
**GENERAL DEMOLITION NOTES**

- ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE AS WELL AS ALL APPLICABLE STATE & LOCAL CODES & ORDINANCES.
- FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, REFER TO ELECTRICAL LEAD SHEET.
- ALL EQUIPMENT SHOWN ON THE DEMOLITION PLANS IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- ALL DEMOLITION WORK SHALL BE PERFORMED WITH "DUE CARE AND DILIGENCE" SO AS TO PREVENT THE ARBITRARY DESTRUCTION OR INTERRUPTION OF CONCEALED UTILITIES WHICH ARE INTENDED TO REMAIN IN USE AND THE ROUTING OF WHICH COULD NOT BE PREDETERMINED UNTIL DEMOLITION WAS STARTED. ALL SUCH DISCOVERIES OF UTILITIES DURING THE DEMOLITION PROCESS WHICH ARE IN A LOCATION DIFFERENT FROM THAT INDICATED, CHANGE DIRECTION FROM FLOOR TO FLOOR, ETC. OR ARE UNIDENTIFIED SHALL BE REPORTED TO THE ARCHITECT AND TO THE ENGINEER BEFORE REMOVAL.
- THE DEMOLITION WORK AT ALL TIMES SHALL BE SUBJECT TO THE DIRECTION AND APPROVAL OF OWNER/LANDLORD AND BE CARRIED OUT IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE NORMAL OPERATION OF THE BUILDING.
- THE DEMOLITION DRAWINGS GENERALLY INDICATE THE REMOVAL OF ITEMS WHICH ARE IN VIEW OR BELIEVED TO BE CONCEALED (SUCH AS EXISTING COLUMNS CONCEALED WITHIN WALLS, ETC.) THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT AND THE ENGINEER, IN WRITING, OF THE FOLLOWING CONDITIONS, BEFORE SUCH CONDITIONS ARE DISTURBED AND BEFORE SIGNIFICANT DELAY OR COST IS INCURRED BY THE CONTRACTOR:
  - CONCEALED OR UNKNOWN CONDITIONS ENCOUNTERED WHICH DIFFER MATERIALLY FROM THOSE INDICATED OR REASONABLY IMPLIED BY THE CONTRACT DOCUMENTS.
  - CONCEALED PHYSICAL CONDITIONS IN THE EXISTING STRUCTURE OF AN UNUSUAL NATURE.
- EXISTING TO BE DEMOLISHED:
  - THE GENERAL CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DESIGNATED AND/OR SHOWN TO BE DEMOLISHED AND CLEAR TO RECEIVE NEW WORK AS HEREIN INDICATED.
  - ELECTRICAL CONTRACTOR SHALL REMOVE ALL DEVICES AND ITEMS PERTAINING TO ELECTRICAL FROM ALL EXISTING PARTITIONS, CEILINGS, ETC. BEING REMOVED.
  - ALL EXISTING WIRING AND CONDUIT SHALL BE REUSED, WHERE FEASIBLE. CIRCUITS NOT REUSED SHALL BE REMOVED BACK TO SOURCE. COORDINATE DEMOLITION WITH CONCURRENT GENERAL.
  - DEMOLITION, UNLESS NOTED TO BE ABANDONED, ALL ELECTRICAL WHICH PASS THROUGH OR ARE AFFECTED BY THE DEMOLITION SHALL BE MAINTAINED IN A COMPLETE AND FULLY OPERATIONAL CONDITION OR, WHERE NOTED, BE APPROPRIATELY CAPPED OFF. PROVIDE TEMPORARY SYSTEMS AS REQUIRED TO MAINTAIN FULL OPERATION OUTSIDE THE AREA OF DEMOLITION.
- EXISTING ELECTRICAL CIRCUITS, WHETHER WITHIN OR OUTSIDE THE LIMITS OF THE CONTRACT, SHALL BE REPAIRED WHERE ANY DAMAGE HAS OCCURRED DUE TO CONSTRUCTION.
- EQUIPMENT AND MATERIALS DESIRED BY OWNER/LANDLORD SHALL BE STORED AT THE SITE BY THE CONTRACTOR AT A LOCATION DIRECTED BY OWNER/LANDLORD. EQUIPMENT AND MATERIALS NOT DESIRED BY OWNER/LANDLORD SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR IMMEDIATELY. OWNER/LANDLORD SHALL PROVIDE LIST OF EQUIPMENT AND MATERIALS TO BE RETAINED.
- CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL CIRCUITS AND DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE RESPONSIBLE PARTY OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
- CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED LICENSES AND PERMITS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING AND TEMPORARY PROTECTION. DO NOT ALTER STRUCTURAL MEMBERS SHOWN TO REMAIN UNLESS SPECIFICALLY DIRECTED TO DO SO BY STRUCTURAL ENGINEER.
- CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE DISTURBANCES TO OWNER/LANDLORD PERSONNEL DURING WORK OPERATIONS. AFTER EACH DAY'S WORK ACTIVITIES THE CONTRACTOR SHALL CLEAR THE SITE OF DEBRIS AND OTHER WORK MATERIALS.
- MAINTAIN ACCESS TO EXISTING EXITS AT ALL TIMES. FIRE ALARM AND SMOKE DETECTION SYSTEM TO REMAIN OPERATIONAL AT ALL TIMES.
- CONTRACTOR IS TO COORDINATE SHUTDOWN OF CIRCUITS WITH RESPONSIBLE PARTY. CONTRACTOR IS TO MAINTAIN OPERABILITY OF ALL CIRCUITS FOLLOWING PERFORMANCE OF ALL WORK.
- ALL LIGHTING FIXTURES, RECEPTACLES AND OTHER DEVICES INDICATED TO BE DEMOLISHED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. DEMOLISH ALL ASSOCIATED CONDUIT AND WIRING BACK TO NEAREST JUNCTION BOX, UNLESS NOTED OTHERWISE. PATCH AND PAINT EXISTING SURFACE.
- CONTRACTOR SHALL VERIFY LOCATION AND CONFIGURATION OF ALL EXISTING CONDITIONS IN FIELD. CONFIRM ALL EXISTING CONDITIONS PRIOR TO STARTING WORK.

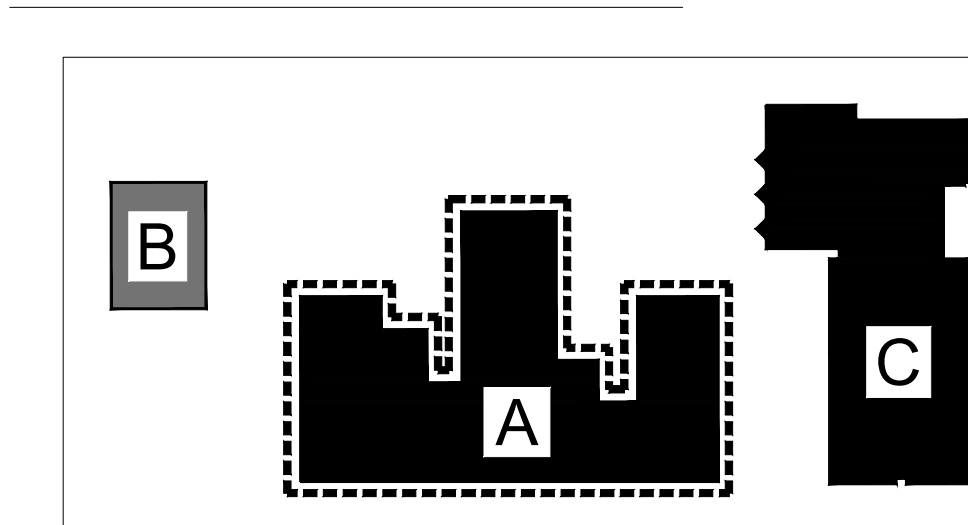
**SHEET NOTES**

- DEMOLISH ALL EXISTING LIGHT FIXTURES AND CONTROL DEVICES WITHIN THIS AREA, UNLESS NOTED OTHERWISE. DISCONNECT AND LEAVE EXISTING WIRING IN SAFE CONDITION FOR FUTURE REUSE.
- DEMOLISH ELECTRICAL EQUIPMENT / DEVICES AS SHOWN WITHIN THIS AREA, UNLESS NOTED OTHERWISE. DISCONNECT AND REMOVE EXISTING WIRING AND CONDUIT BACK TO SOURCE. TURN BREAKER TO OFF POSITION AND MARK AS "SPARE".
- DEMOLISH WALL CLOCK. DISCONNECT AND LEAVE EXISTING WIRING IN SAFE CONDITION FOR FUTURE REUSE.
- EXISTING DUPLEX RECEPTACLE TO BE REPLACE IN PLACE WITH NEW GFCI RECEPTACLE. DISCONNECT AND LEAVE EXISTING WIRING IN SAFE CONDITION FOR FUTURE REUSE.
- ALL EXISTING RECEPTACLES WITHIN THIS AREA TO BE REPLACED-IN-PLACE WITH NEW TAMPER RESISTANT RECEPTACLES. DISCONNECT AND LEAVE EXISTING WIRING IN SAFE CONDITION FOR FUTURE REUSE.
- EXISTING CABLES FOR ALL VOICE / DATA DEVICES WITHIN THIS AREA TO BE REPLACED. REMOVE EXISTING CABLE BACK TO SOURCE.

**LEGEND**



**KEY - BUILDING ZONES:**

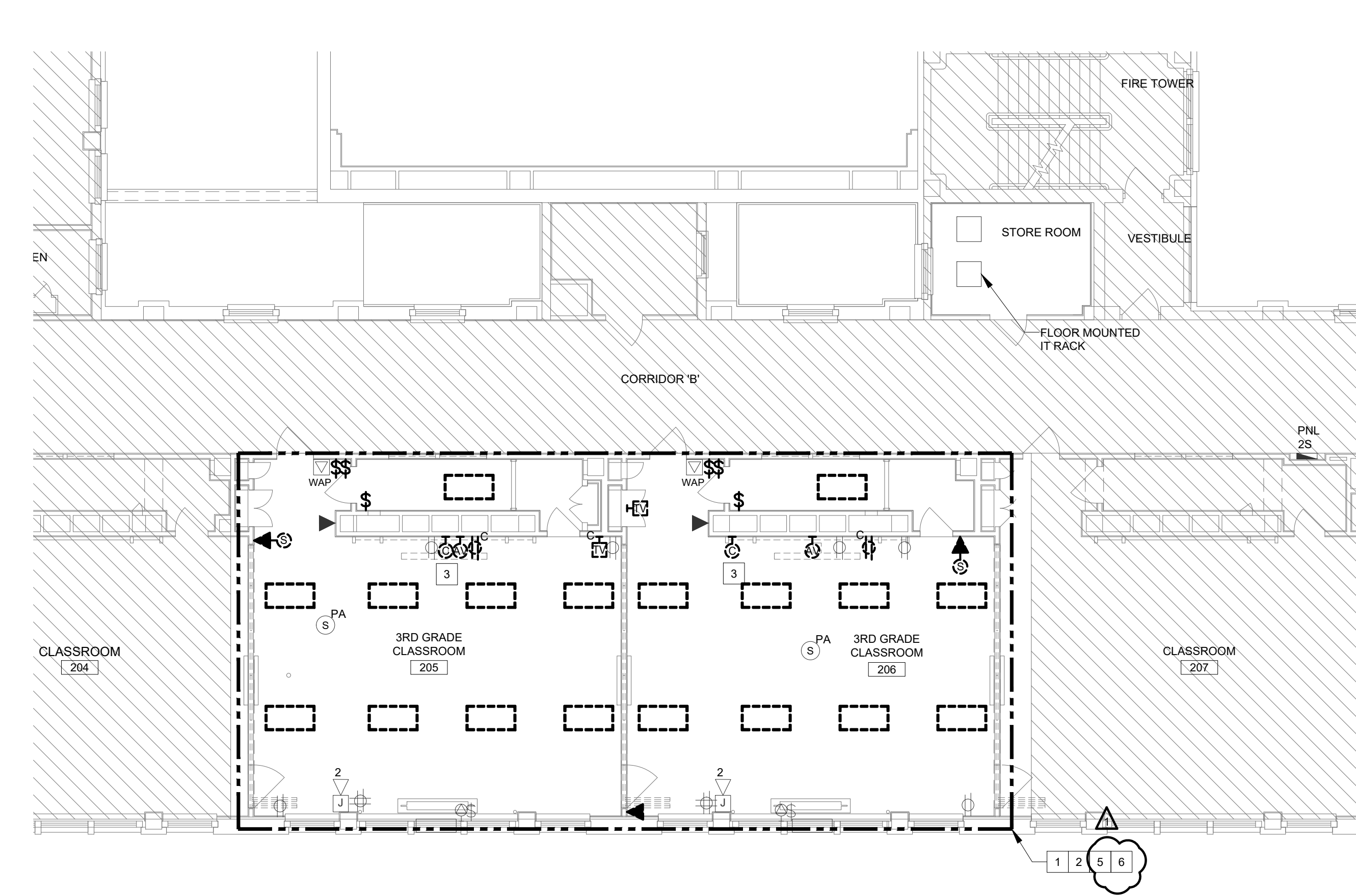


- NOTES:**
- ZONE 'A' = 1926 "MAIN" BUILDING
  - ZONE 'B' = 1966 "PORTABLE" BUILDING
  - ZONE 'C' = 1997 "LITTLE SCHOOL HOUSE" BUILDING
  - "DASHED LINE" DEFINES PLAN AREA SHOWN ON SHEET.

**3 ELECTRICAL DEMOLITION PLAN - 2ND LEVEL - PARTIAL ZONE 'A'**

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

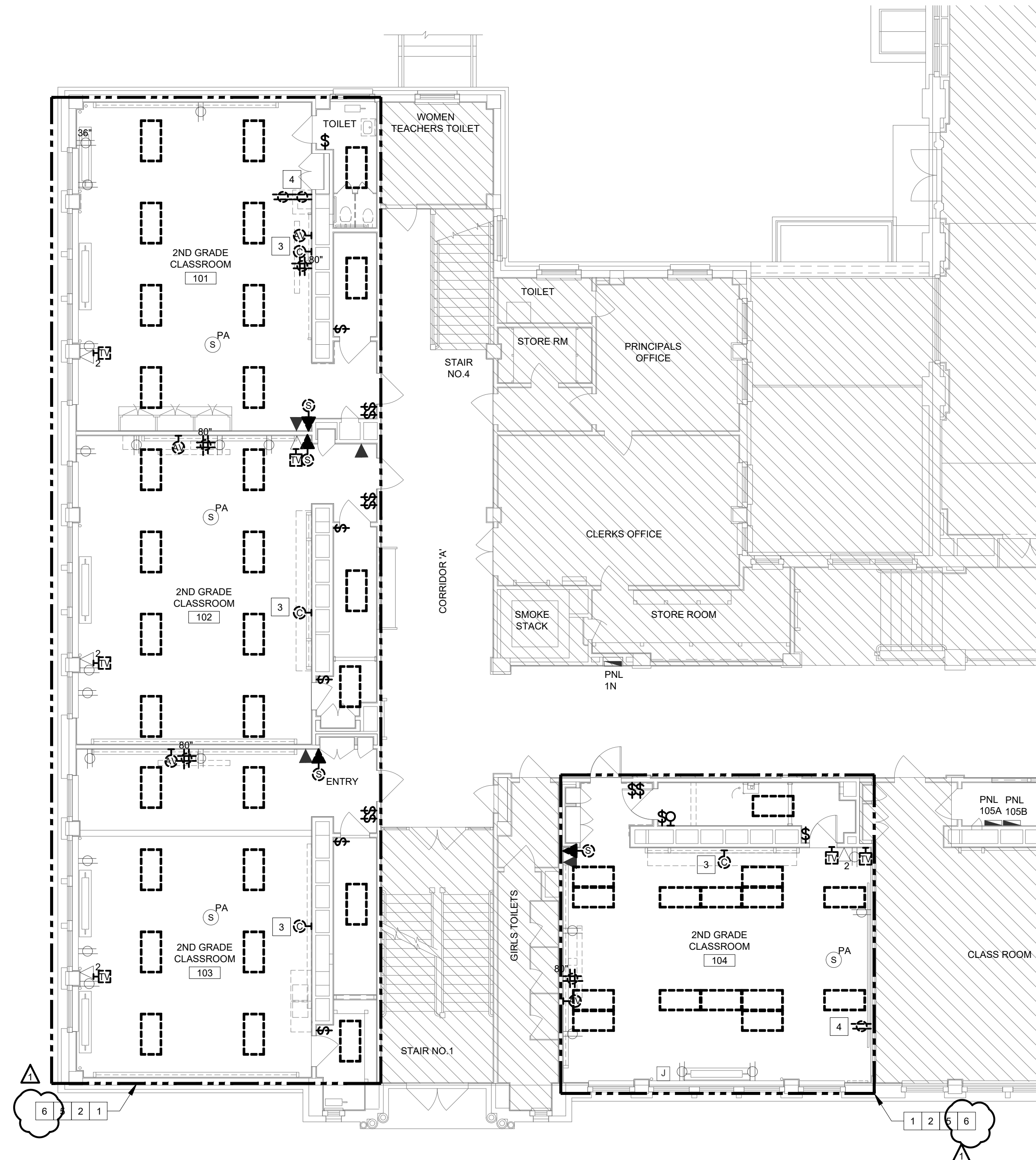
E-100



**1 ELECTRICAL DEMOLITION PLAN - 1ST LEVEL - PARTIAL ZONE 'A'**

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

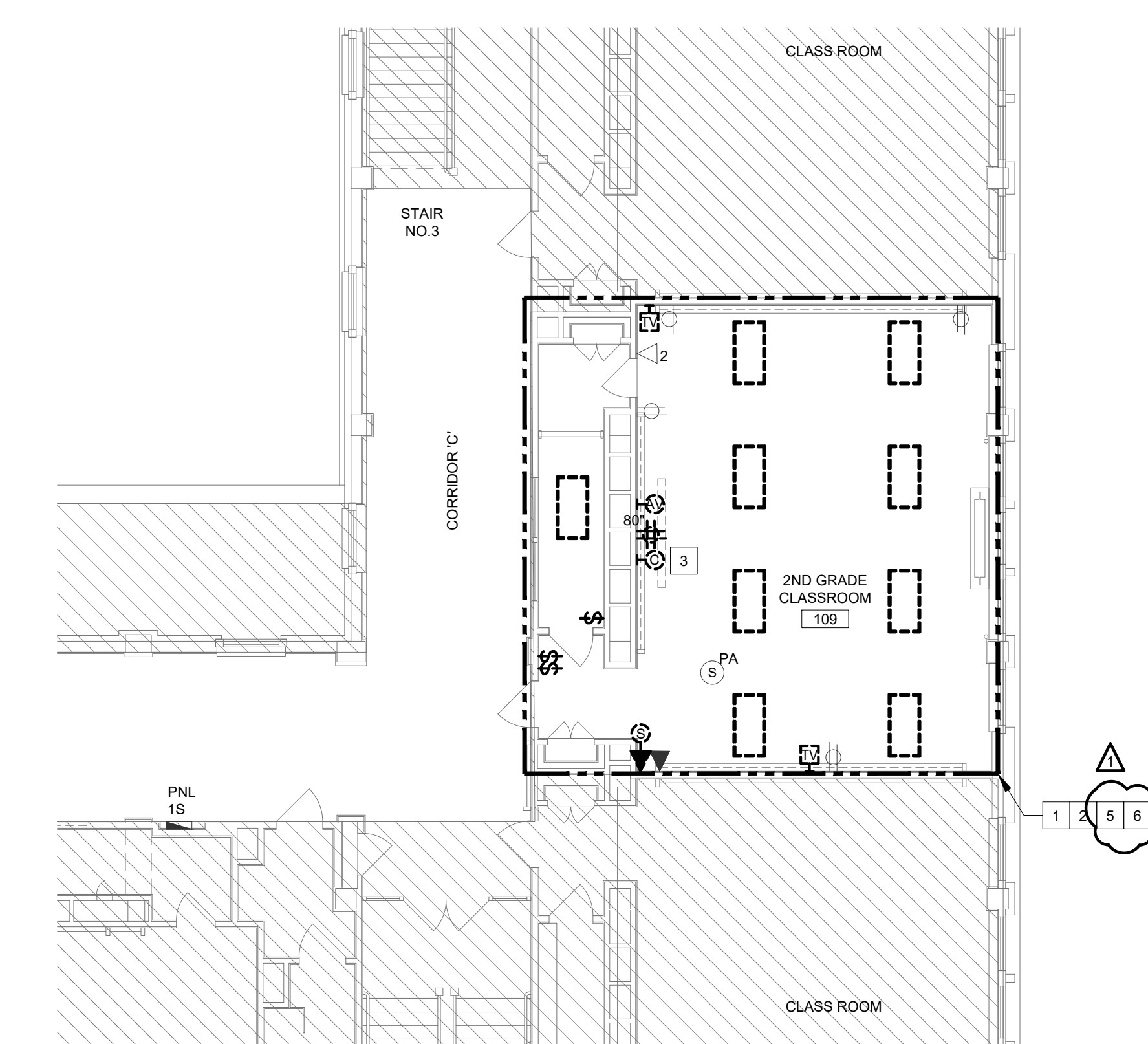
E-100



**2 ELECTRICAL DEMOLITION PLAN - 1ST LEVEL - PARTIAL ZONE 'A'**

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

E-100



**ISSUE FOR BID 01/14/2022**

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1	02/17/2022	ADDENDUM #1

SCHOOL & LOCATION  
**FRANCIS HOPKINSON SCHOOL**  
 1301-31 E LUZERNE STREET, PHILADELPHIA, PA 19124

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

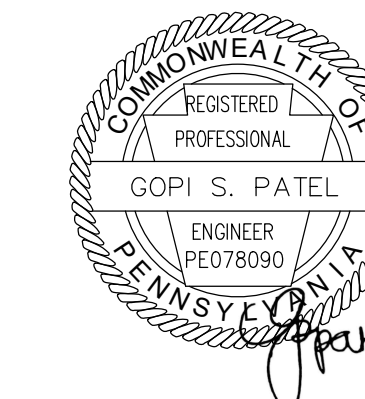
DRAWING TITLE  
**ELECTRICAL DEMOLITION PLANS - 1ST & 2ND LEVELS - ZONE 'A'**

DRAWING SCALE	
LOCATION NO.	###
DRAWN BY	CHECKED BY
NIP	GSP

GC - 2022-006-G  
 FC - 2022-006-F  
 EC - 2022-006-E

DRAWING NO.  
**E - 100**  
 SHEET 26 OF 35

SEAL:



Name: Kevin Ray Goodhall STATE AND LICENSE NO: RAD14763X DATE: 10/22/1996

**ARCHITECT:**  
GODSHALL KANE O'ROURKE ARCHITECTS, LLC  
330 BROADSIDE AVENUE - BLDG. 18 - SUITE 150  
AMBLER, PA, 19002  
Phone: 215.646.2003  
Email: ALLISON@GKOARCHITECTS.COM  
Attn: ALLISON KLINGLER, RA

**MECHANICAL / PLUMBING / ELECTRICAL ENGINEER:**  
PSQUARED CONSULTING ENGINEERS  
920 GERMANTOWN PIKE, SUITE 20  
PLYMOUTH MEETING, PA 19462  
Phone: 484.539.9459  
Email: GOPI.PATEL@PSQUAREDENG.COM  
Attn: GOPI PATEL

**GENERAL NOTES**

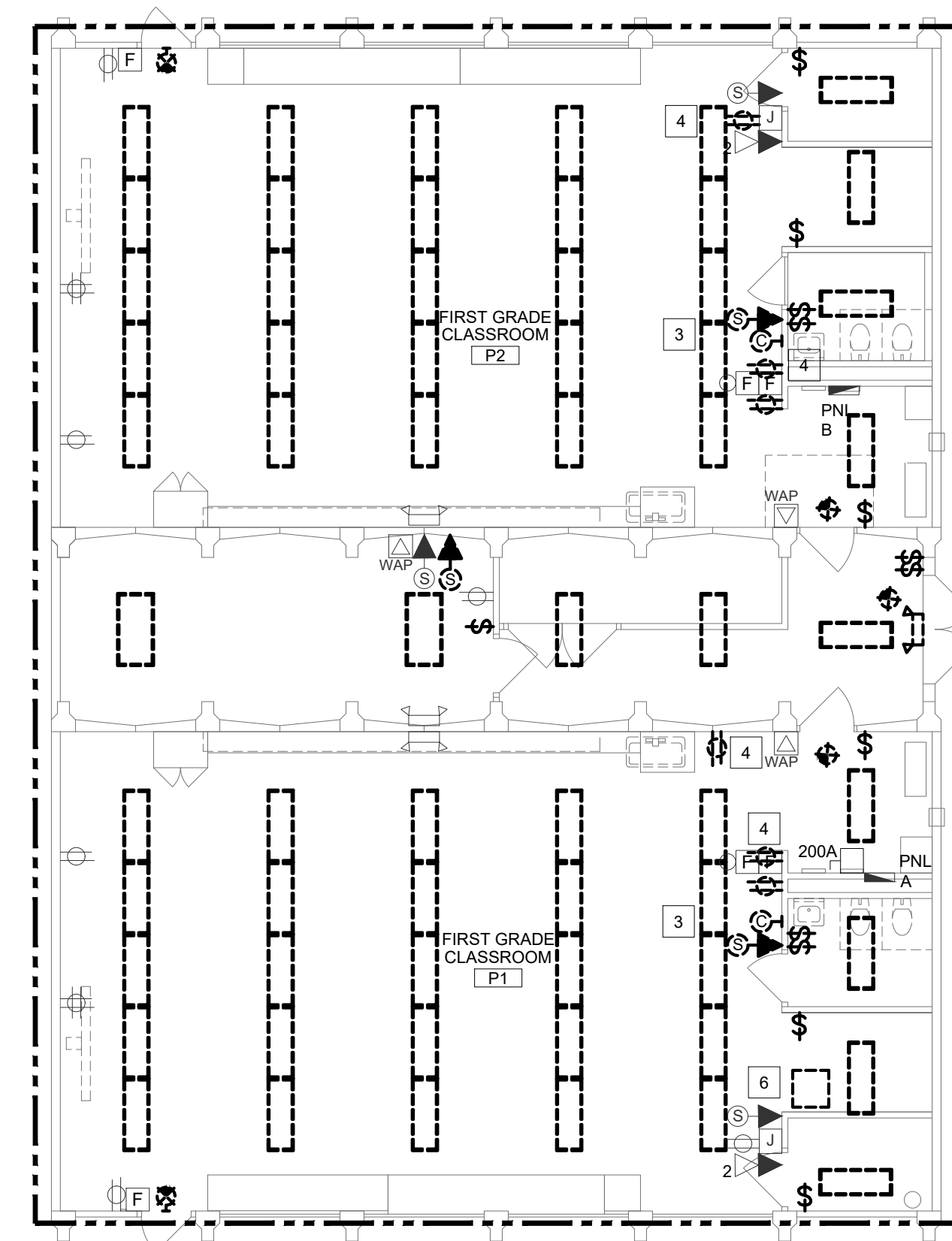
1. REFER TO DRAWING E-100 FOR GENERAL DEMOLITION NOTES.

**SHEET NOTES**

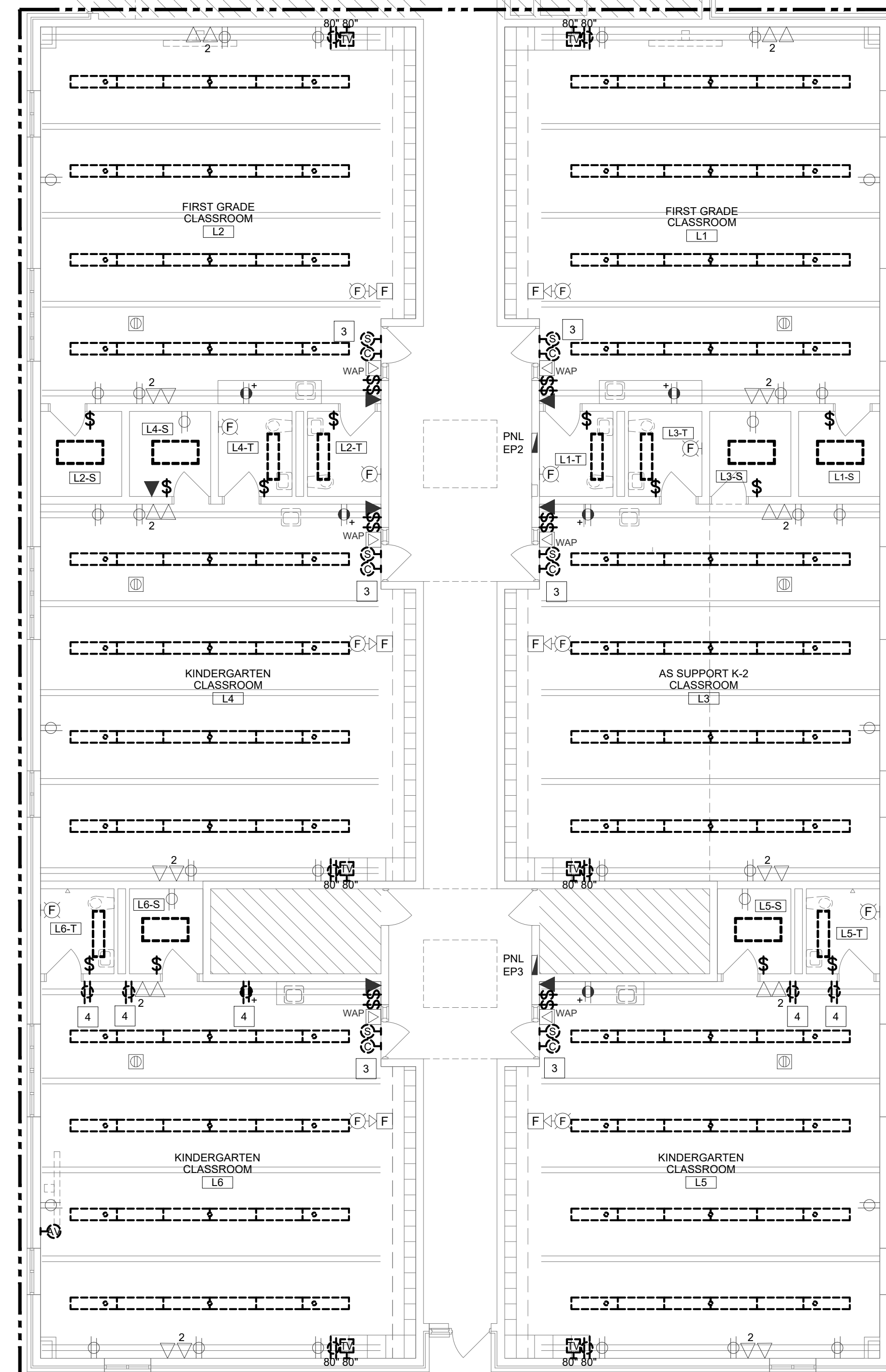
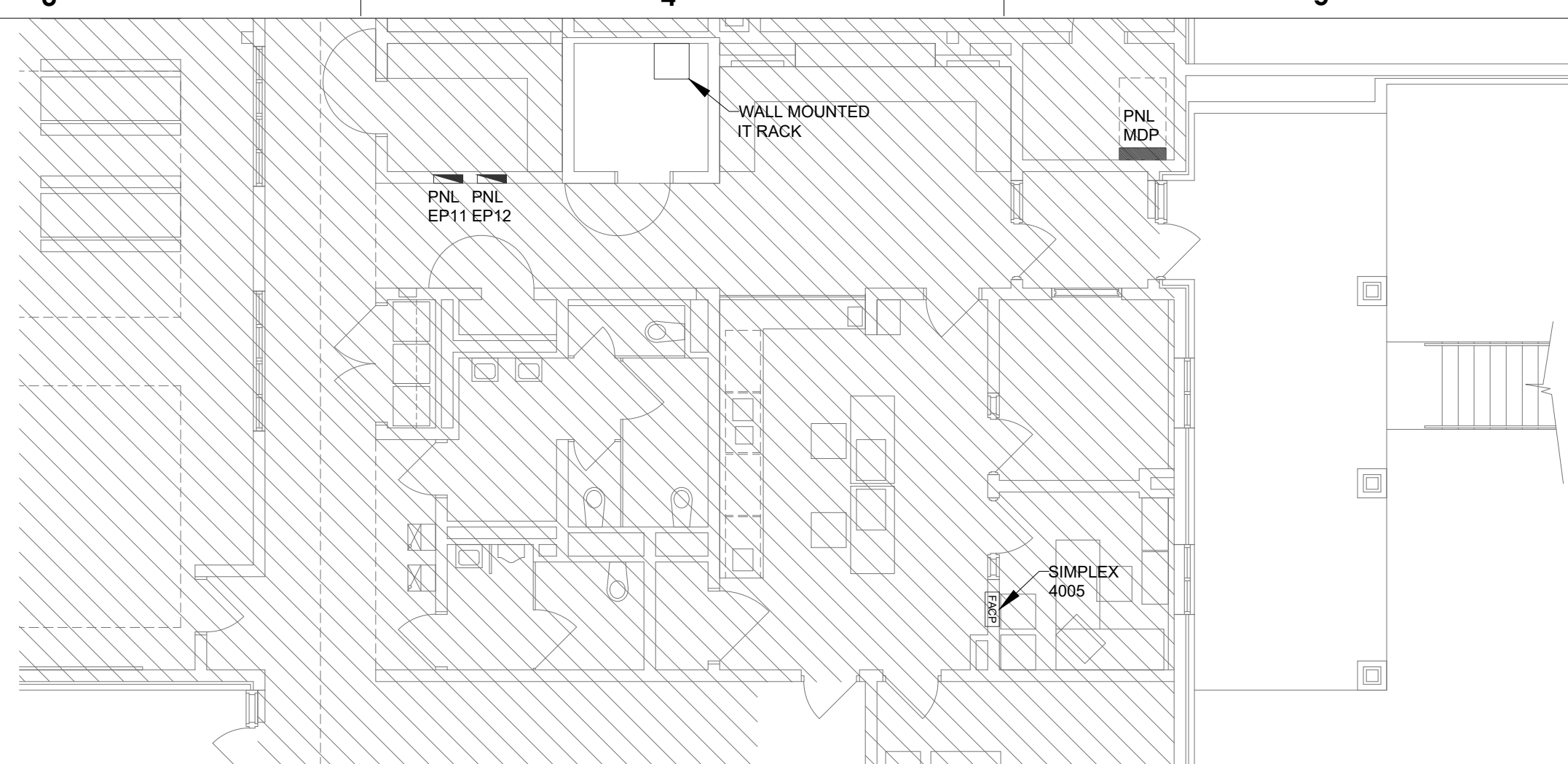
- 1 DEMOLISH ALL EXISTING LIGHT FIXTURES AND CONTROL DEVICES WITHIN THIS AREA, UNLESS NOTED OTHERWISE. DISCONNECT AND LEAVE EXISTING WIRING IN SAFE CONDITION FOR FUTURE REUSE.
- 2 DEMOLISH ELECTRICAL EQUIPMENT / DEVICES AS SHOWN WITHIN THIS AREA, UNLESS NOTED OTHERWISE. DISCONNECT AND REMOVE EXISTING WIRING AND CONDUIT BACK TO SOURCE. TURN BREAKER TO OFF POSITION AND MARK AS "SPARE".
- 3 DEMOLISH WALL CLOCK. DISCONNECT AND LEAVE EXISTING WIRING IN SAFE CONDITION FOR FUTURE REUSE.
- 4 EXISTING DUPLEX RECEPTACLE TO BE REPLACE IN PLACE WITH NEW GFCI RECEPTACLE. DISCONNECT AND LEAVE EXISTING WIRING IN SAFE CONDITION FOR FUTURE REUSE.
- 5 ALL EXISTING RECEPTACLES WITHIN THIS AREA TO BE REPLACED-IN-PLACE WITH NEW TAMPER RESISTANT RECEPTACLES. DISCONNECT AND LEAVE EXISTING WIRING IN SAFE CONDITION FOR FUTURE REUSE.
- 6 RELOCATE WALL MOUNTED IT RACK TO NEW LOCATION AS SHOWN ON DRAWING E-121. DISCONNECT / REROUTE / RECONNECT EXISTING WIRING. COORDINATE ALL WORK WITH SDP-IT.
- 7 EXISTING CABLES FOR ALL VOICE / DATA DEVICES WITHIN THIS AREA TO BE REPLACED. REMOVE EXISTING CABLE BACK TO SOURCE.

**LEGEND**

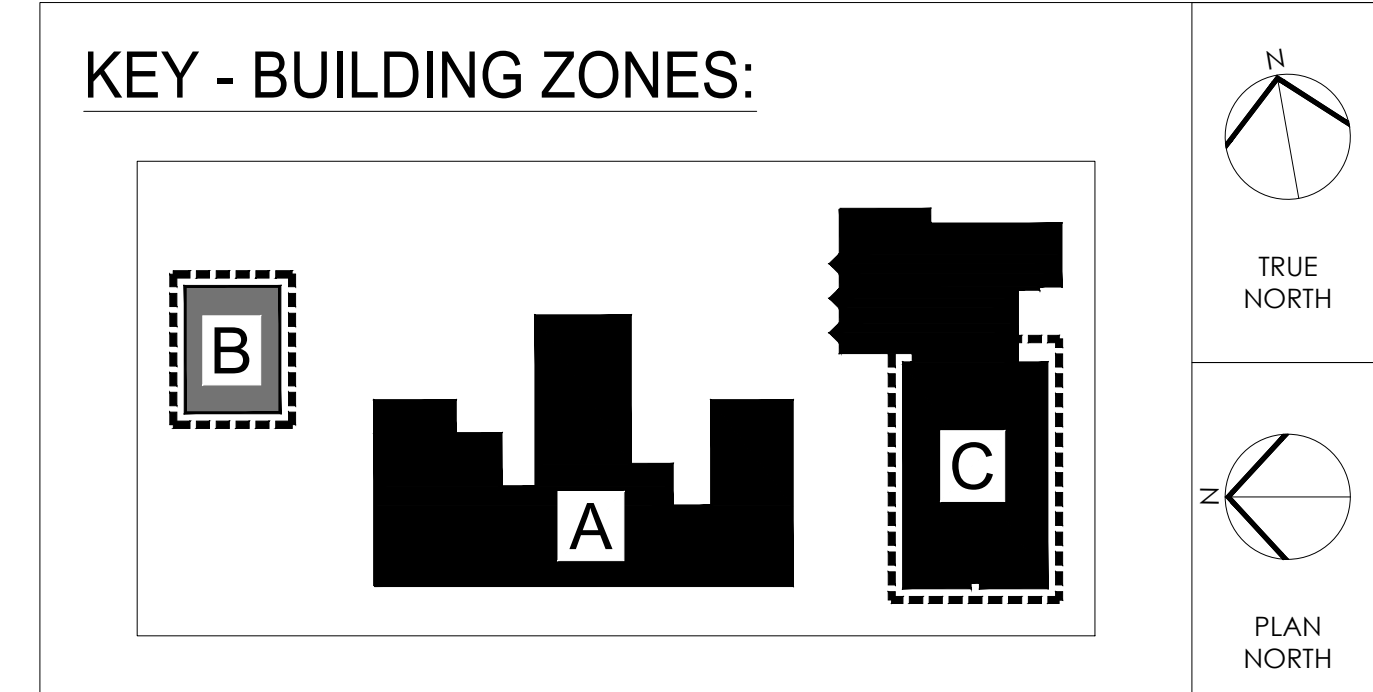
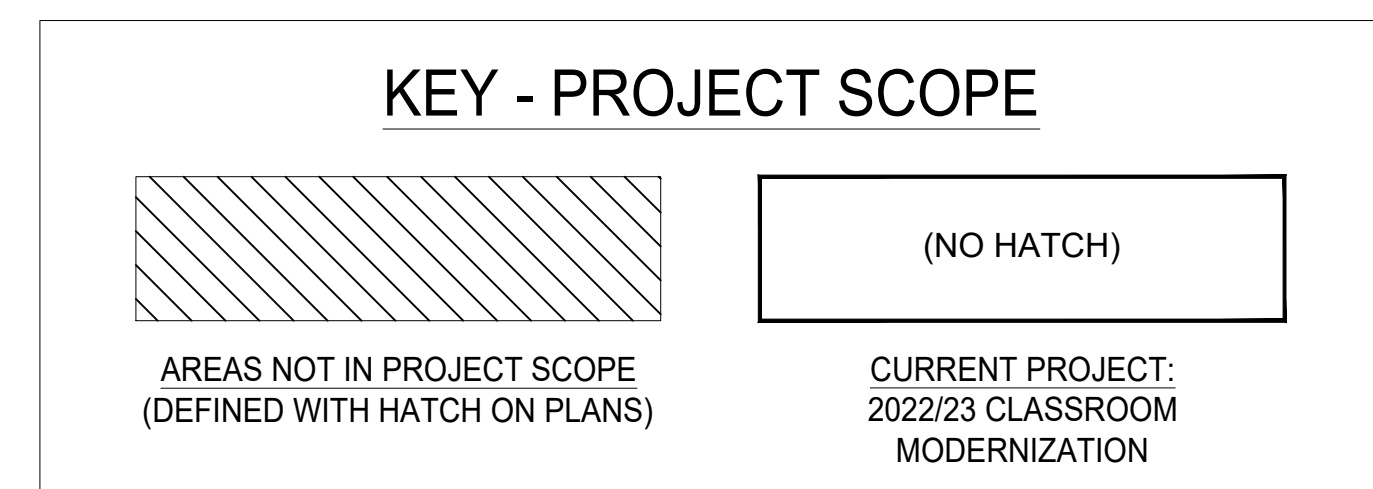
- EXISTING TO REMAIN
- - - - - DEMOLISH
- (ER) EXISTING TO BE RELOCATED



**1 ELECTRICAL DEMOLITION PLAN - ZONE 'B'**  
E-101 SCALE: 1/8" = 1'-0"



**2 ELECTRICAL DEMOLITION PLAN - ZONE 'C'**  
E-101 SCALE: 1/8" = 1'-0"



- NOTES:**
- ZONE 'A' = 1926 "MAIN" BUILDING
  - ZONE 'B' = 1966 "PORTABLE" BUILDING
  - ZONE 'C' = 1997 "LITTLE SCHOOL HOUSE" BUILDING
  - "DASHED LINE" DEFINES PLAN AREA SHOWN ON SHEET.

**ISSUE FOR BID**  
01/14/2022

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NO.	DATE	REVISION
1	02/17/2022	ADDENDUM #1

SCHOOL & LOCATION  
**FRANCIS HOPKINSON SCHOOL**  
1301-31 E LUZERNE STREET, PHILADELPHIA, PA 19124

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**ELECTRICAL DEMOLITION PLANS - ZONES 'B' & 'C'**

DRAWING SCALE  
###

LOCATION NO.  
###

DRAWN BY  
NIP

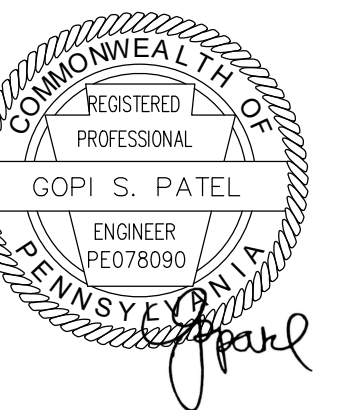
CHECKED BY  
GSP

GC - 2022-006-G  
PC - 2022-006-P  
EC - 2022-006-E

DRAWING NO.  
**E - 101**

SHEET 27 OF 35

SEAL:



Name: Kevin Ray Goodhart STATE AND LICENSE NO: RAD14763X DATE: 10/22/1996

**ARCHITECT:**  
GODSHALL KANE O'ROURKE ARCHITECTS, LLC  
300 BROOKSIDE AVENUE - BLDG. 18 - SUITE 150  
AMBLER, PA, 19002  
Phone: 215.646.2003  
Email: ALLISON@GKOARCHITECTS.COM  
Attn: ALLISON KLINGLER, RA

**MECHANICAL / PLUMBING / ELECTRICAL ENGINEER:**  
PSQUARED CONSULTING ENGINEERS  
920 GERMANTOWN PIKE, SUITE 20  
PLYMOUTH MEETING, PA 19462  
Phone: 484.539.9459  
Email: GOPI.PATEL@PSQUAREDENG.COM  
Attn: GOPI PATEL

**GENERAL NOTES**

1. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE 2017 AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES & ORDINANCES.
2. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, REFER TO ELECTRICAL LEAD SHEET.
3. ALL NEW DEVICES MOUNTED TO CMU BLOCK WALL SHALL BE SURFACE MOUNTED. PROVIDE SURFACE MOUNT EMT WITH BOXES AND FITTINGS AS REQUIRED. GC TO PAINT RACEWAY TO MATCH WALL SURFACE. FINAL APPROVAL ON PAINT COLOR BY ARCHITECT.

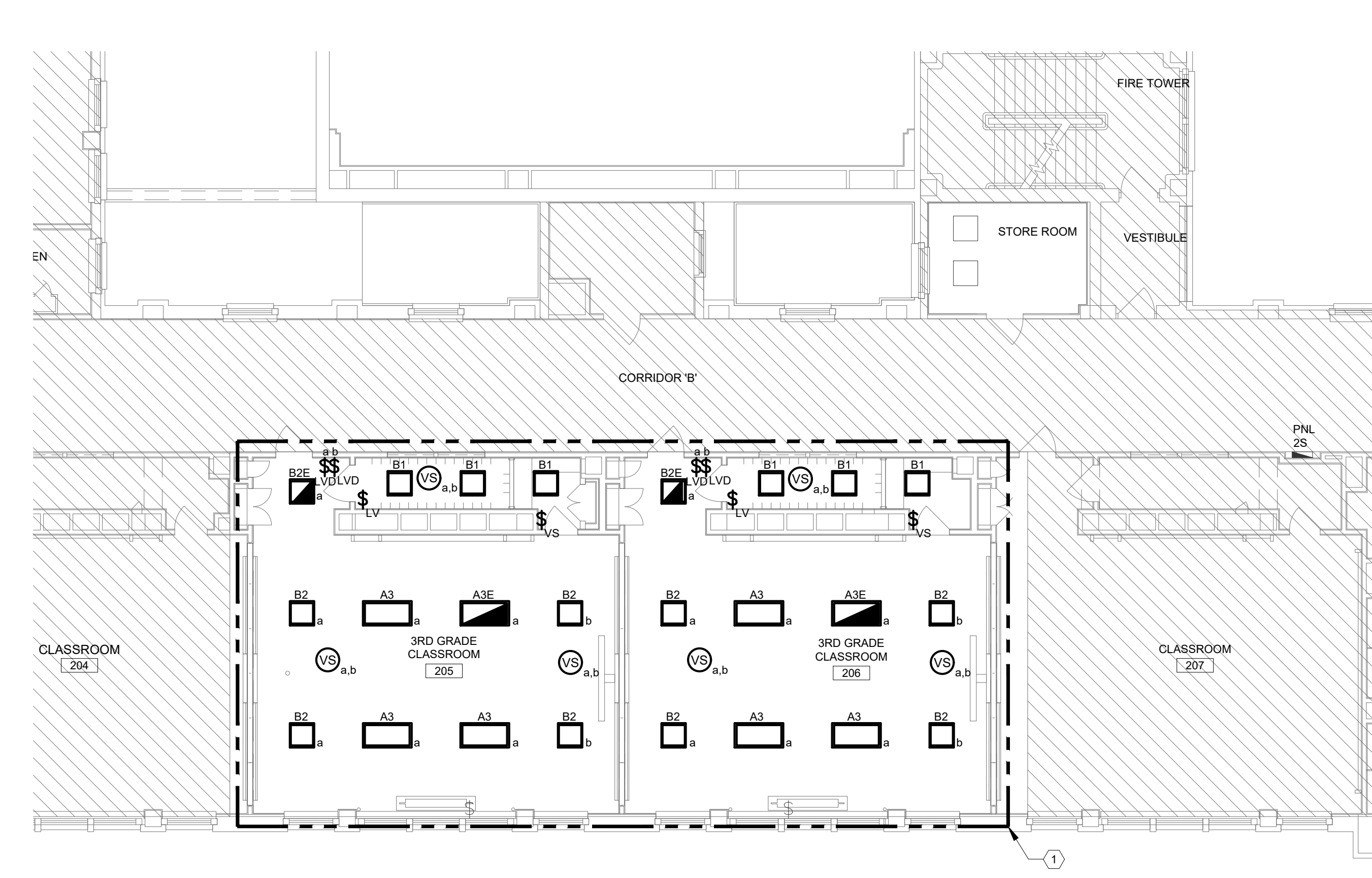
**SHEET NOTES**

1. CONNECT LIGHT FIXTURES WITHIN THIS AREA TO EXISTING CIRCUITING LEFT IN SAFE CONDITION DURING DEMOLITION PHASE.

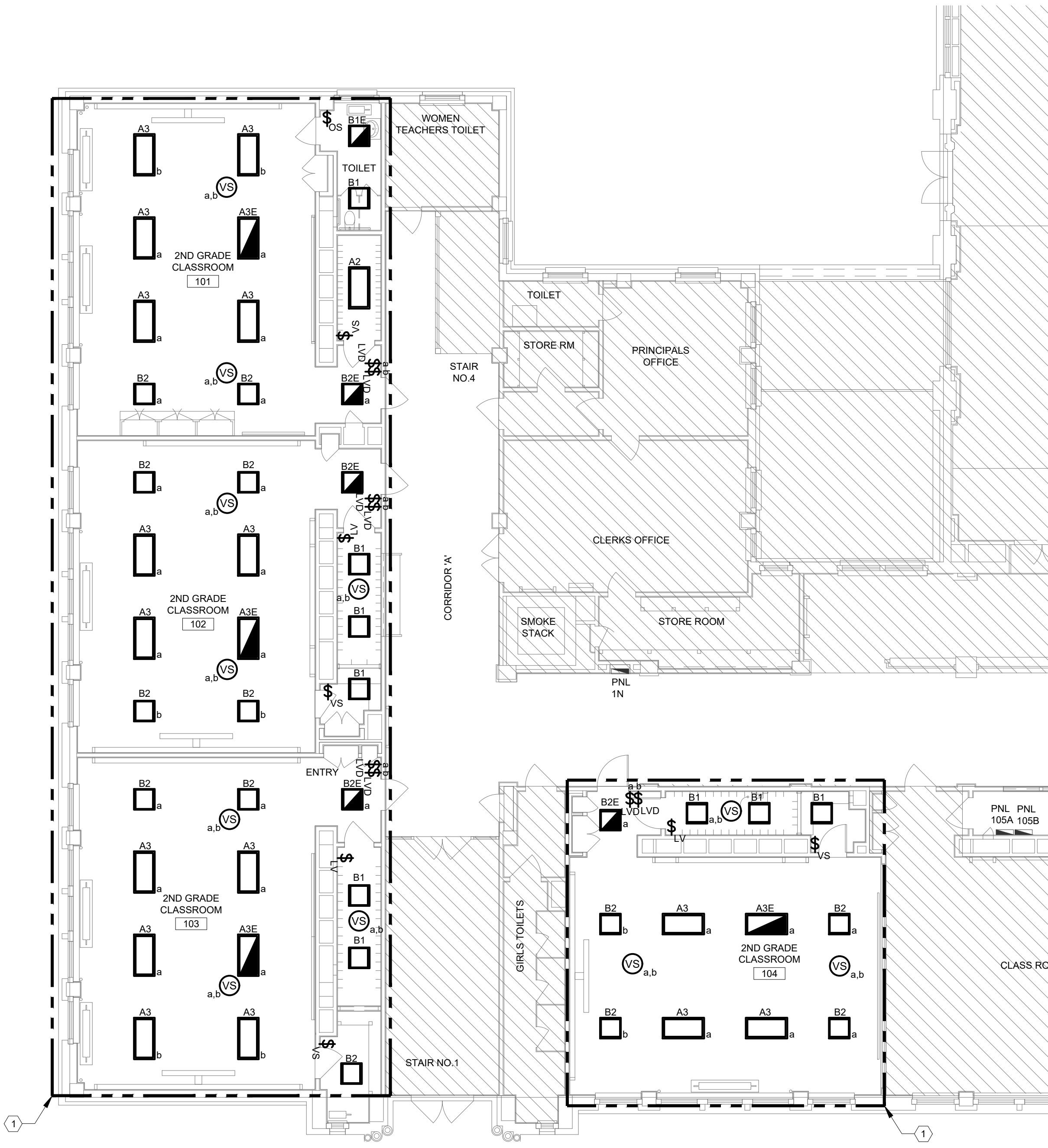
**LEGEND**

- A2 2x4' RECESSED LED LIGHT FIXTURE WITH DIMMING DRIVER SIGNIFY DAY-BRITE - 2EVG48L840-4-R-UNV-DIM
- A3 2x4' RECESSED LED LIGHT FIXTURE WITH DIMMING DRIVER SIGNIFY DAY-BRITE - 2EVG74L840-4-R-UNV-DIM
- A3E 2x4' RECESSED LED LIGHT FIXTURE WITH DIMMING DRIVER AND INTEGRAL BATTERY PACK SIGNIFY DAY-BRITE - 2EVG74L840-4-R-UNV-DIM-EMLED
- B1 2x2' RECESSED LED LIGHT FIXTURE WITH DIMMING DRIVER SIGNIFY DAY-BRITE - 2EVG30L840-2-R-UNV-DIM
- B1E 2x2' RECESSED LED LIGHT FIXTURE WITH DIMMING DRIVER AND INTEGRAL BATTERY PACK SIGNIFY DAY-BRITE - 2EVG30L840-2-R-UNV-DIM-EMLED
- B2 2x2' RECESSED LED LIGHT FIXTURE WITH DIMMING DRIVER SIGNIFY DAY-BRITE - 2EVG45L840-2-R-UNV-DIM
- B2E 2x2' RECESSED LED LIGHT FIXTURE WITH DIMMING DRIVER AND INTEGRAL BATTERY PACK SIGNIFY DAY-BRITE - 2EVG45L840-2-R-UNV-DIM-EMLED

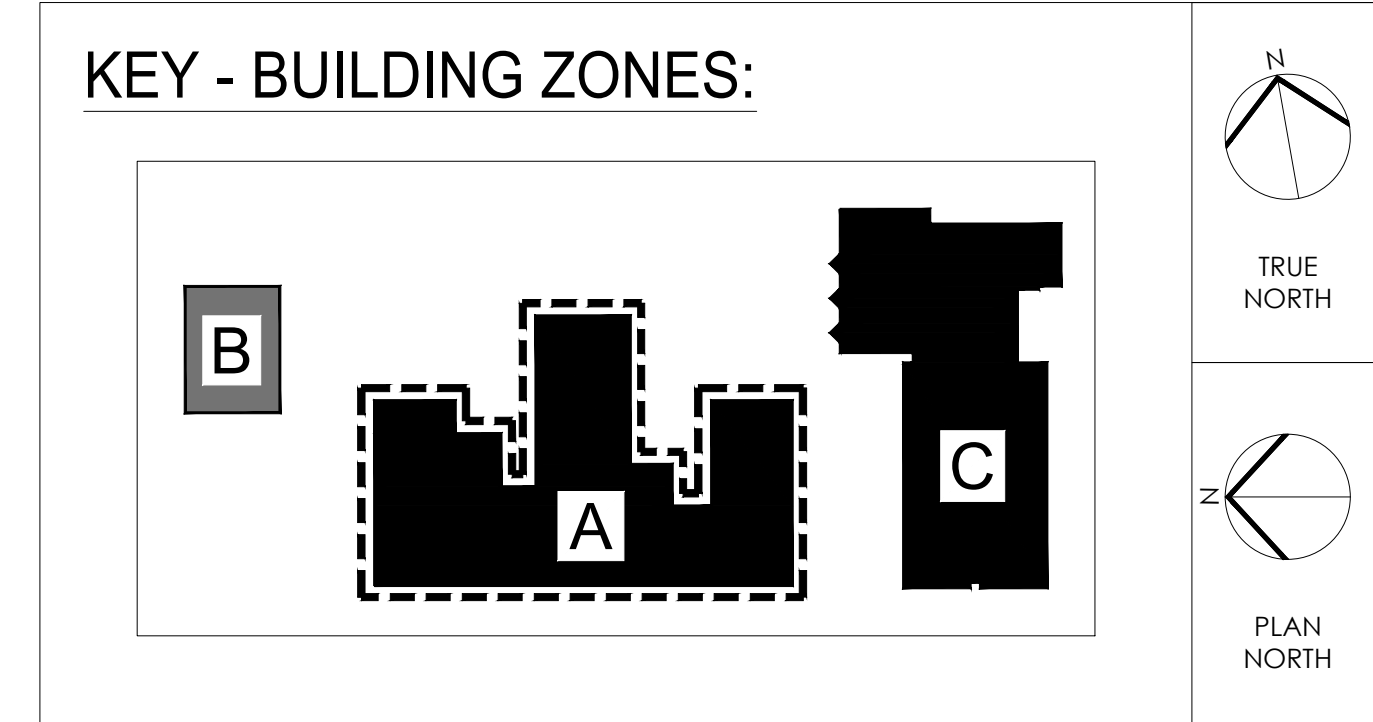
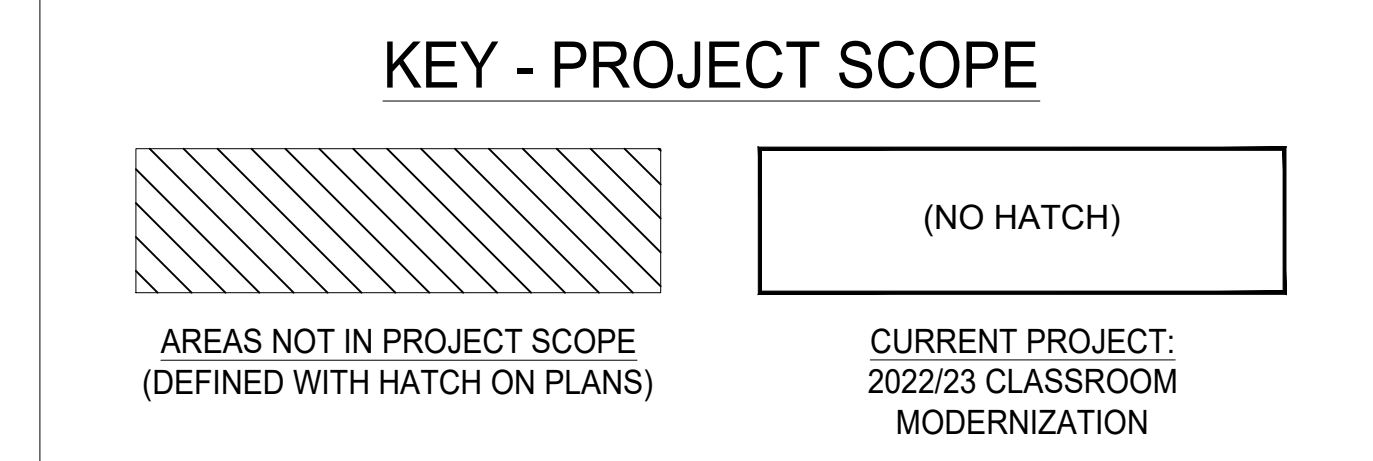
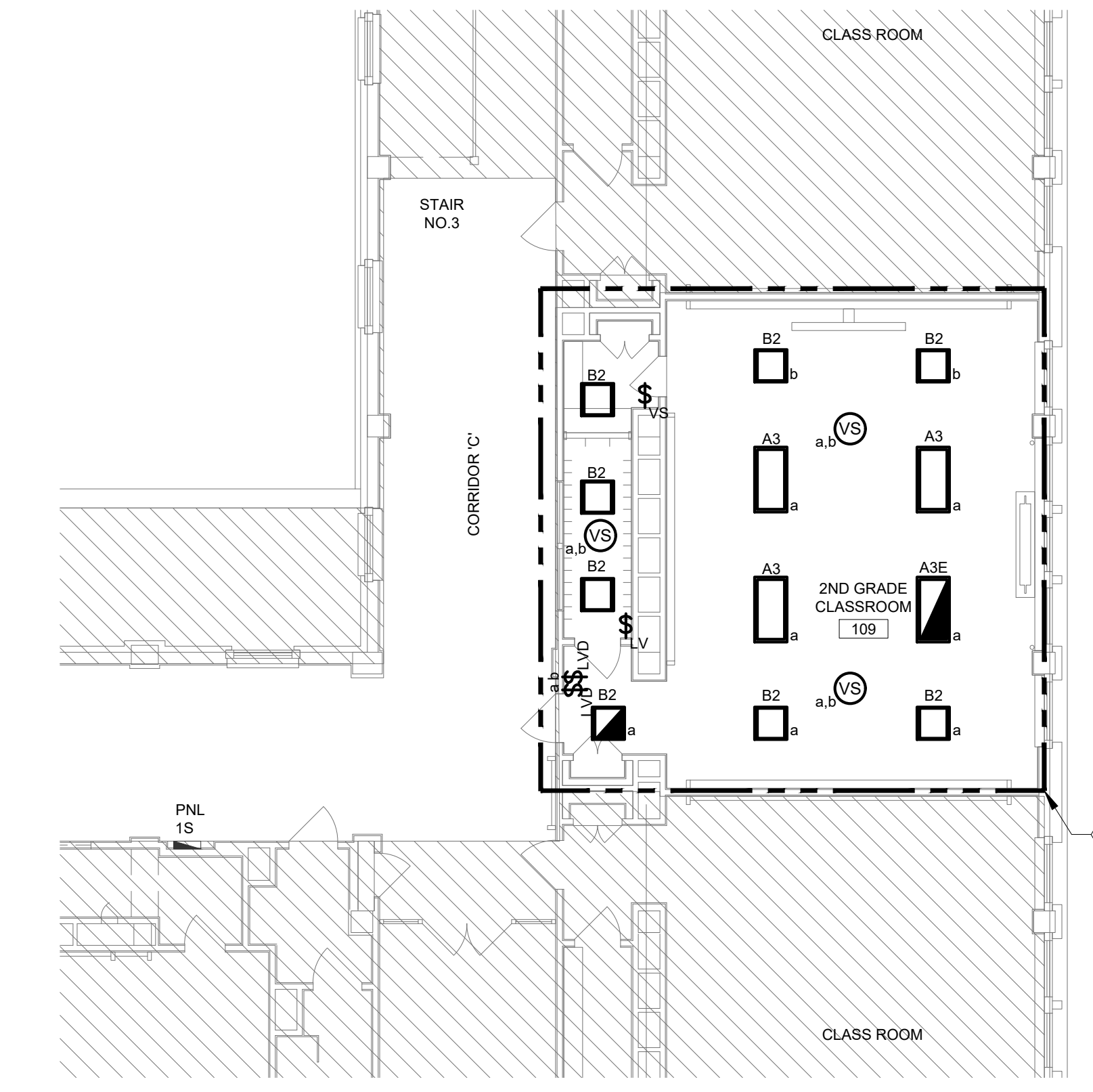
**3 LIGHTING PLAN - 2ND LEVEL - PARTIAL ZONE 'A'**  
SCALE: 1/8" = 1'-0"



**1 LIGHTING PLAN - 1ST LEVEL - PARTIAL ZONE 'A'**  
SCALE: 1/8" = 1'-0"



**2 LIGHTING PLAN - 1ST LEVEL - PARTIAL ZONE 'A'**  
SCALE: 1/8" = 1'-0"



- NOTES:**
- ZONE 'A' = 1926 "MAIN" BUILDING
  - ZONE 'B' = 1966 "PORTABLE" BUILDING
  - ZONE 'C' = 1997 "LITTLE SCHOOL HOUSE" BUILDING
  - "DASHED LINE" DEFINES PLAN AREA SHOWN ON SHEET.

ISSUE FOR BID  
01/14/2022

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NO.	DATE	REVISION
1	02/17/2022	ADDENDUM #1

SCHOOL & LOCATION  
**FRANCIS HOPKINSON SCHOOL**  
1301-31 E LUZERNE STREET, PHILADELPHIA, PA 19124

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**LIGHTING PLANS - 1ST & 2ND LEVELS - PARTIAL ZONE 'A'**

DRAWING SCALE  
###

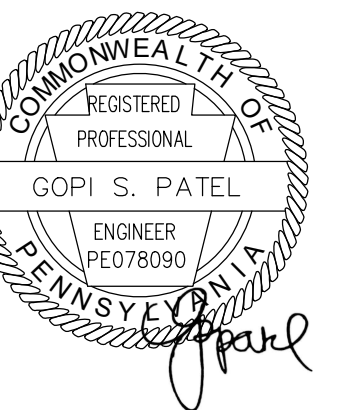
LOCATION NO.  
###

DRAWN BY: NIP  
CHECKED BY: GSP

GC - 2022-006-G  
FC - 2022-006-F  
EC - 2022-006-E

DRAWING NO.  
**E - 110**  
SHEET 28 OF 35

SEAL:



Name: Kevin Ray Goodhart  
STATE AND LICENSE NO: RAD14763X  
DATE: 10/22/1996

**ARCHITECT:**  
GODSHALL KANE O'ROURKE ARCHITECTS, LLC  
300 BROOKSIDE AVENUE - BLDG. 18 - SUITE 150  
AMBLER, PA 19002  
Phone: 215.646.2003  
Email: ALLISON@GKOARCHITECTS.COM  
Attn: ALLISON KLINGLER, RA

**MECHANICAL / PLUMBING / ELECTRICAL ENGINEER:**  
PSQUARED CONSULTING ENGINEERS  
920 GERMANTOWN PIKE, SUITE 20  
PLYMOUTH MEETING, PA 19462  
Phone: 484.539.9459  
Email: GOPI.PATEL@PSQUAREDENG.COM  
Attn: GOPI PATEL

**GENERAL NOTES**

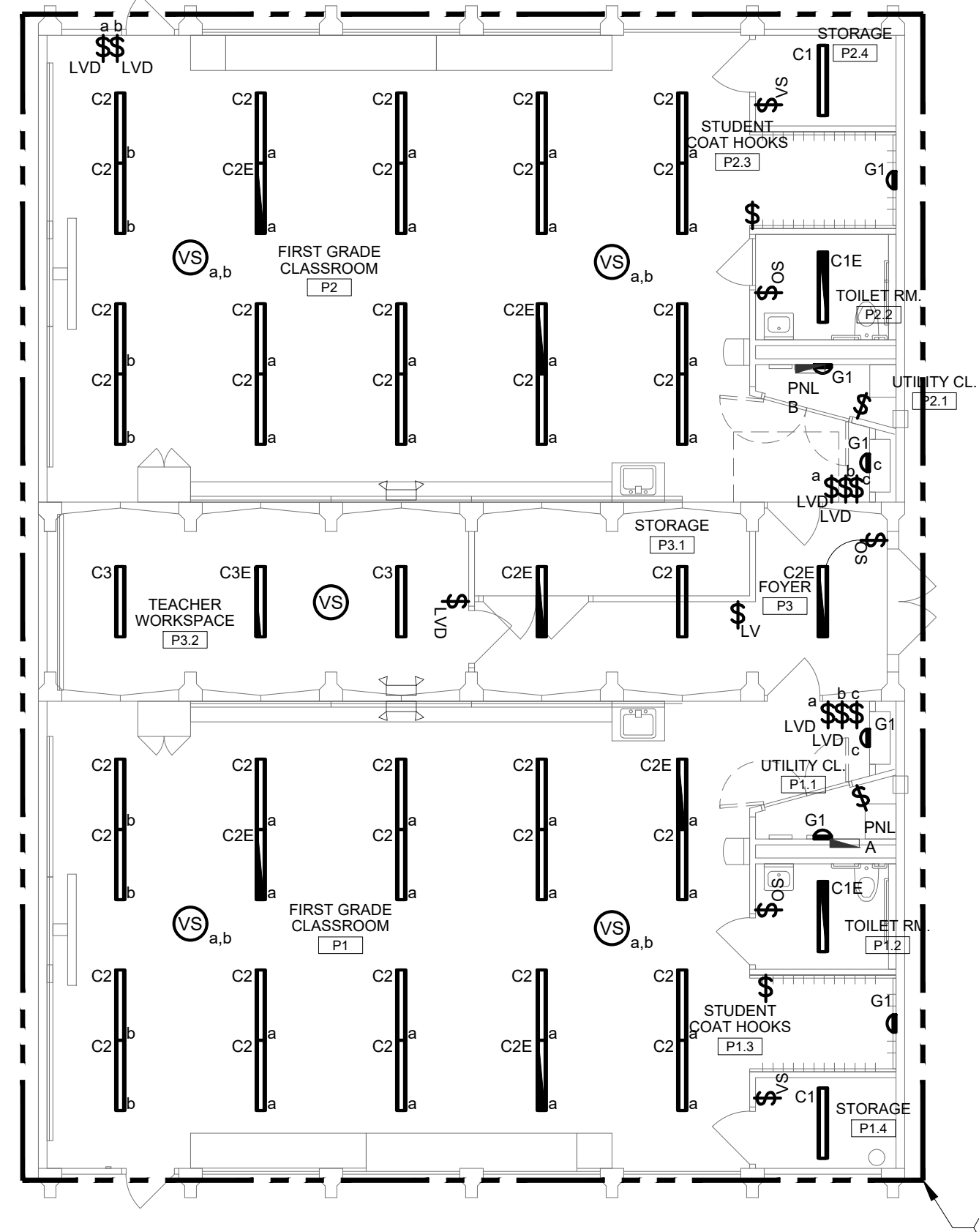
1. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE 2017 AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES & ORDINANCES.
2. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, REFER TO ELECTRICAL LEAD SHEET.
3. ALL NEW DEVICES MOUNTED TO CMU BLOCK WALL SHALL BE SURFACE MOUNTED. PROVIDE SURFACE MOUNT EMT WITH BOXES AND FITTINGS AS REQUIRED. GC TO PAINT RACEWAY TO MATCH WALL SURFACE. FINAL APPROVAL ON PAINT COLOR BY ARCHITECT.

**SHEET NOTES**

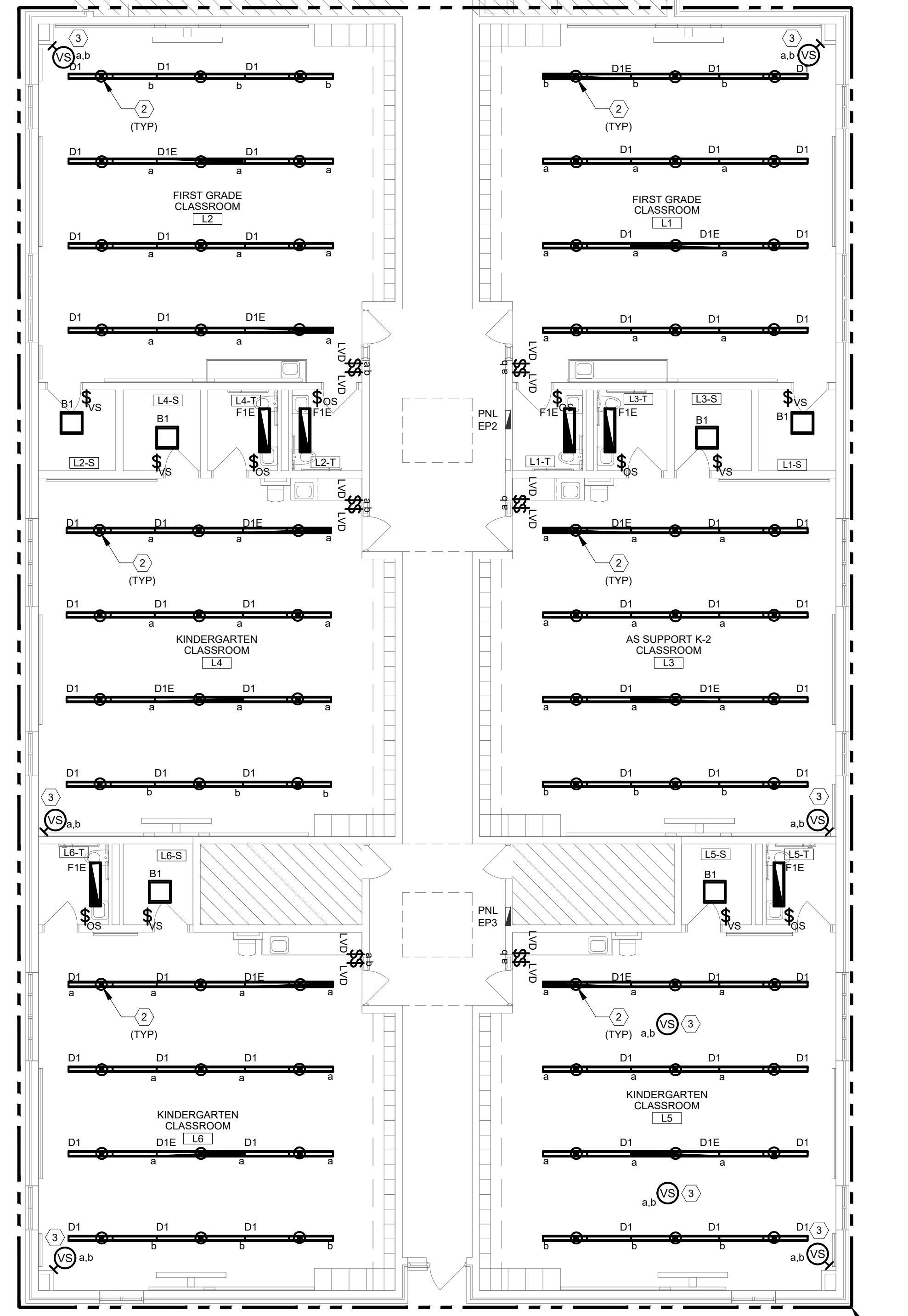
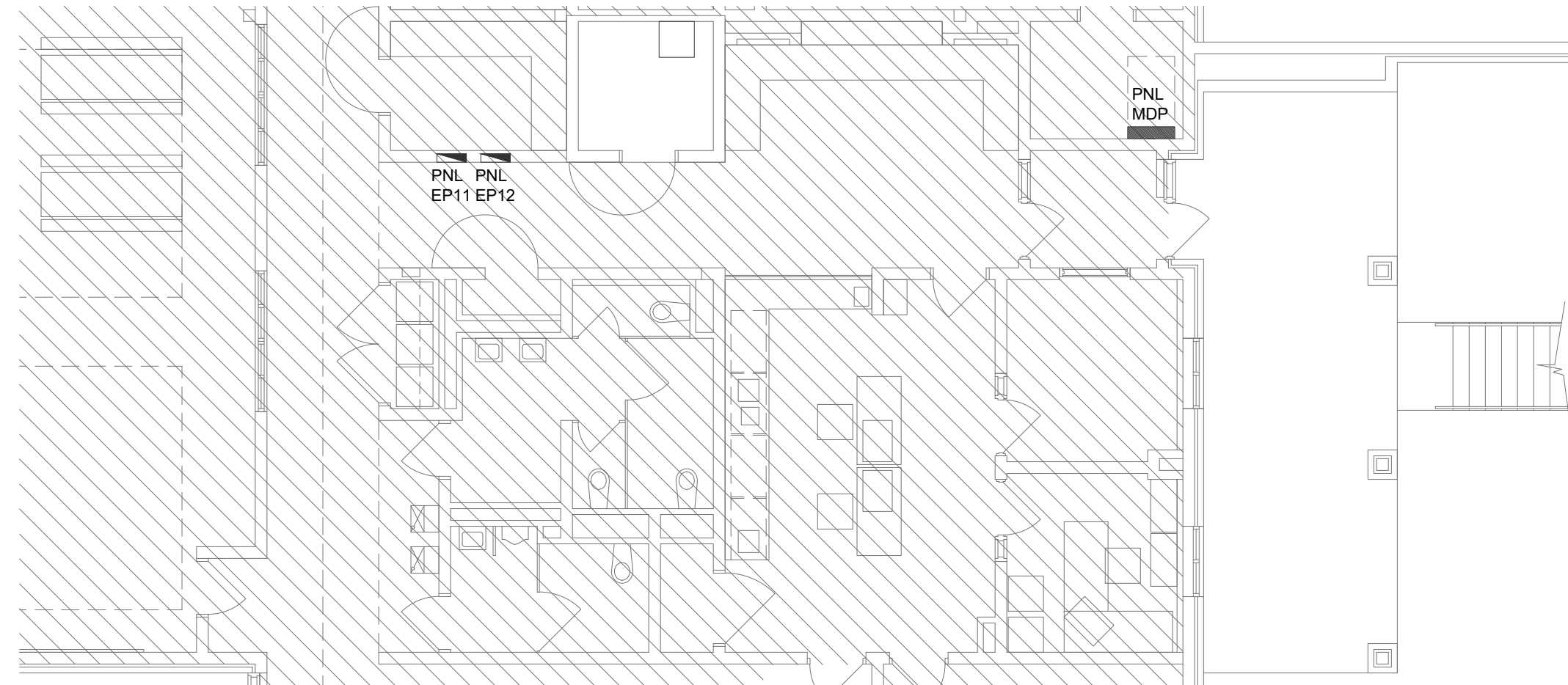
1. CONNECT LIGHT FIXTURES WITHIN THIS AREA TO EXISTING CIRCUITING LEFT IN SAFE CONDITION DURING DEMOLITION PHASE.
2. CABLE MOUNT NEW SUSPENDED LIGHT FIXTURES TO INACCESSIBLE SLOPED CEILING AT EXISTING MOUNTING LOCATIONS.
3. PROVIDE WALL MOUNTED SENSORS; SENSOR SWITCH WV16 SERIES OR APPROVED EQUAL.

**LEGEND**

- B1 2x2 RECESSED LED LIGHT FIXTURE  
SIGNIFY DAY-BRITE #2EVG30L840-2-R-UNV-DIM
- C1 4' SURFACE LINEAR LED LIGHT FIXTURE WITH DIMMING DRIVER;  
SIGNIFY DAY-BRITE #FSW440L840-UNV-DIM
- C1E 4' SURFACE LINEAR LED LIGHT FIXTURE WITH DIMMING DRIVER;  
SIGNIFY DAY-BRITE #FSW440L840-UNV-DIM-EMLED
- C2 4' SURFACE LINEAR LED LIGHT FIXTURE WITH DIMMING DRIVER;  
SIGNIFY DAY-BRITE #FSW455L840-UNV-DIM
- C2E 4' SURFACE LINEAR LED LIGHT FIXTURE WITH DIMMING DRIVER AND  
INTEGRAL BATTERY PACK;  
SIGNIFY DAY-BRITE #FSW455L840-UNV-DIM-EMLED
- C3 4' SURFACE LINEAR LED LIGHT FIXTURE WITH DIMMING DRIVER;  
SIGNIFY DAY-BRITE #FSW470L840-UNV-DIM
- C3E 4' SURFACE LINEAR LED LIGHT FIXTURE WITH DIMMING DRIVER AND  
INTEGRAL BATTERY PACK;  
SIGNIFY DAY-BRITE #FSW470L840-UNV-DIM-EMLED
- D1 8' SUSPENDED LINEAR LED LIGHT FIXTURE WITH DIMMING DRIVER;  
SIGNIFY LEDALITE #2901L84022Q08DE1NNW, A1-96
- D1E 8' SUSPENDED LINEAR LED LIGHT FIXTURE WITH DIMMING DRIVER AND  
INTEGRAL BATTERY PACK;  
SIGNIFY LEDALITE #2901L84022Q08DE1BNW, A1-96
- F1E 1'x4' RECESSED LED LIGHT FIXTURE WITH DIMMING DRIVER  
SIGNIFY DAY-BRITE #1FPZ30L840-4-DS-UNV-DIM-SSL10LST
- G1 WALL MOUNT LED UTILITY LIGHT  
PROGRESS LIGHTING #P3709-30

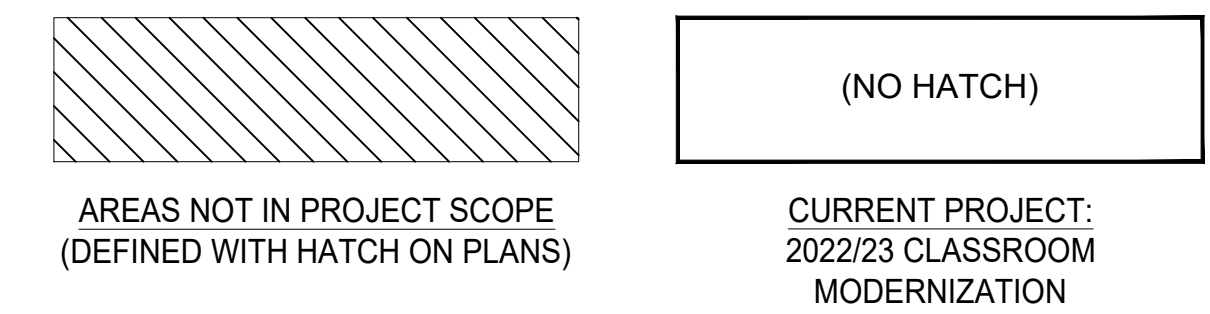


1 LIGHTING PLAN - ZONE 'B'  
E-111 SCALE: 1/8" = 1'-0"

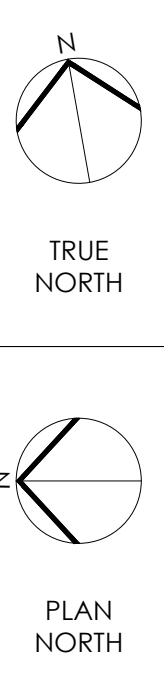
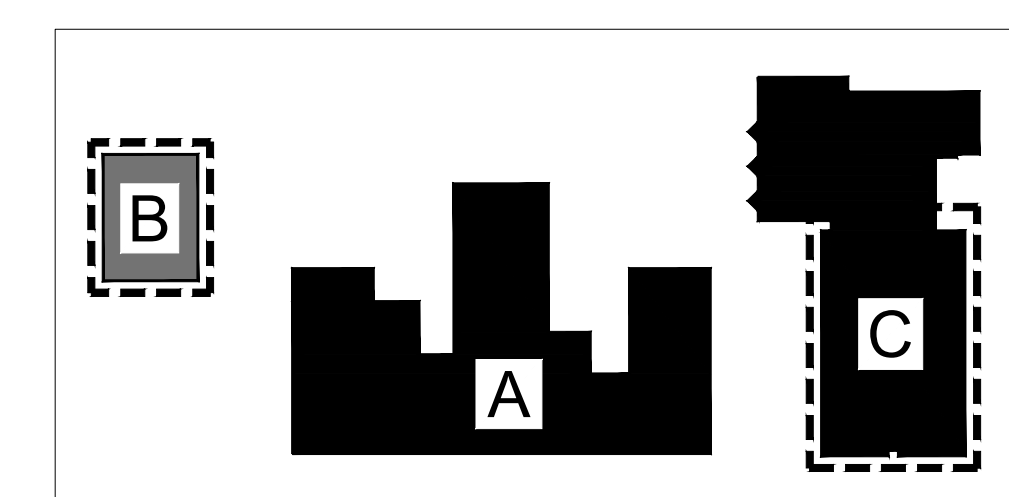


2 LIGHTING PLAN - ZONE 'C'  
E-111 SCALE: 1/8" = 1'-0"

**KEY - PROJECT SCOPE**



**KEY - BUILDING ZONES:**



- NOTES:**
- ZONE 'A' = 1926 "MAIN" BUILDING
  - ZONE 'B' = 1966 "PORTABLE" BUILDING
  - ZONE 'C' = 1997 "LITTLE SCHOOL HOUSE" BUILDING
  - "DASHED LINE" DEFINES PLAN AREA SHOWN ON SHEET.

**ISSUE FOR BID  
01/14/2022**

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NO.	DATE	REVISION
1	02/17/2022	ADDENDUM #1

SCHOOL & LOCATION  
**FRANCIS HOPKINSON SCHOOL**  
1301-31 E LUZERNE STREET, PHILADELPHIA, PA 19124

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**LIGHTING PLANS - ZONES 'B' & 'C'**

DRAWING SCALE  
###

LOCATION NO.  
###

DRAWN BY: NIP  
CHECKED BY: GSP

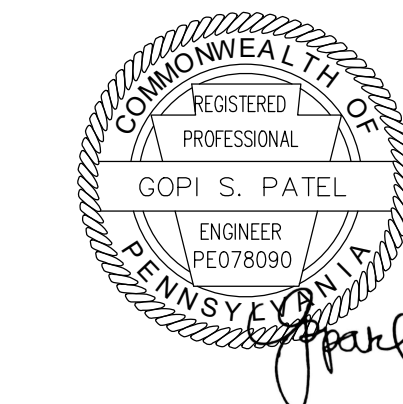
GC - 2022-006-G  
FC - 2022-006-F  
EC - 2022-006-E

DRAWING NO.  
**E - 111**

SHEET 29 OF 35



SEAL:



Name: Kevin Ray Goodhart  
STATE AND LICENSE NO: RAD14763X  
DATE: 10/22/1996

**ARCHITECT:**  
GODSHALL KANE O'ROURKE ARCHITECTS, LLC  
300 BROOKSIDE AVENUE - BLDG. 18 - SUITE 150  
AMBLER, PA, 19002  
Phone: 215.646.2003  
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PLYMOUTH MEETING, PA 19462  
Phone: 484.539.9459  
Email: GOPI.PATEL@PSQUAREDENG.COM  
Attn: GOPI PATEL

**GENERAL NOTES**

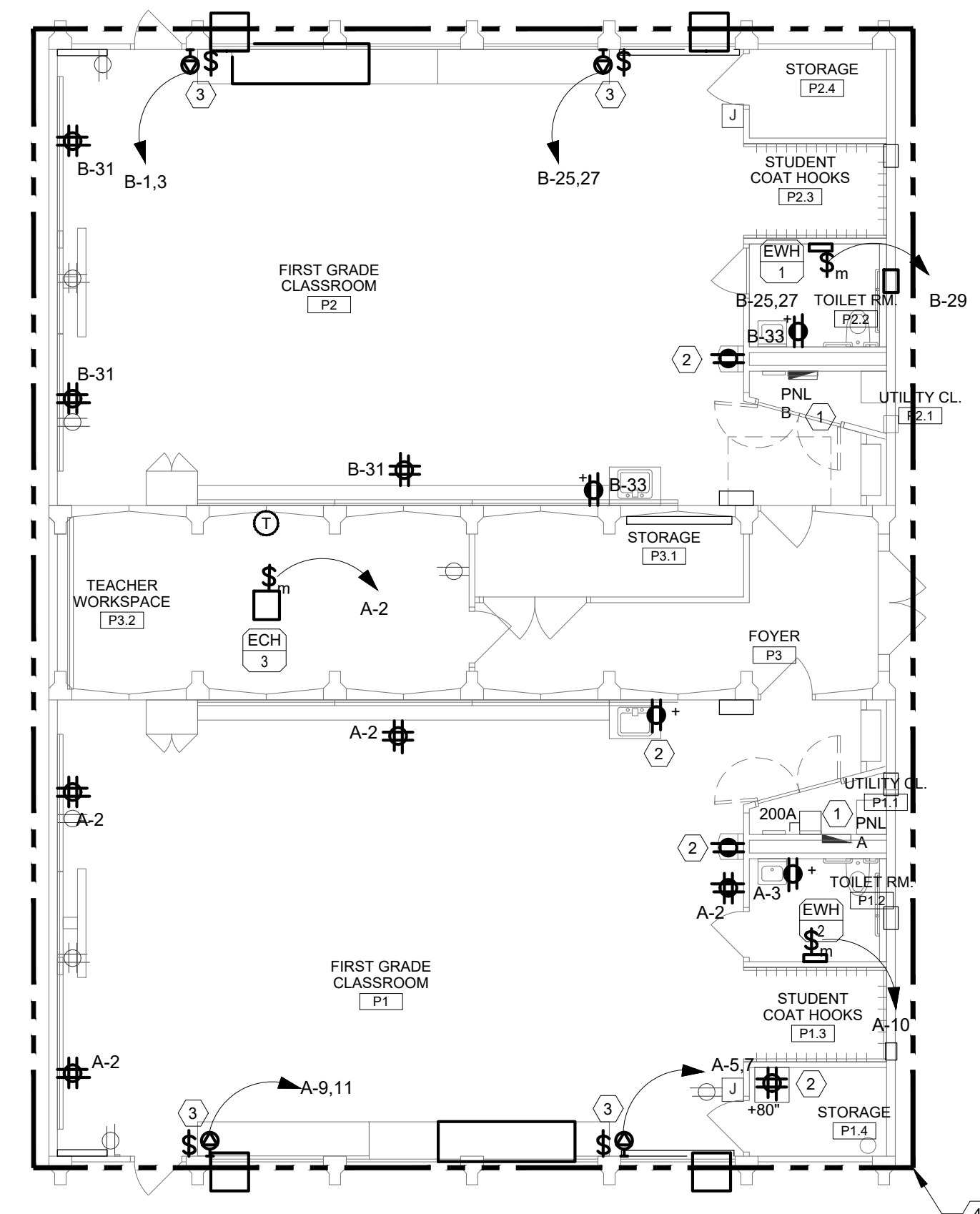
1. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE 2017 AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES & ORDINANCES.
2. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, REFER TO ELECTRICAL LEAD SHEET.
3. ALL NEW RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT IN ACCORDANCE WITH NEC ARTICLE 406.12.
4. ALL NEW DEVICES MOUNTED TO CMU BLOCK WALL SHALL BE SURFACE MOUNTED. PROVIDE SURFACE MOUNT EMT WITH BOXES AND FITTINGS AS REQUIRED. GC TO PAINT RACEWAY TO MATCH WALL SURFACE. FINAL APPROVAL ON PAINT COLOR BY ARCHITECT.

**SHEET NOTES**

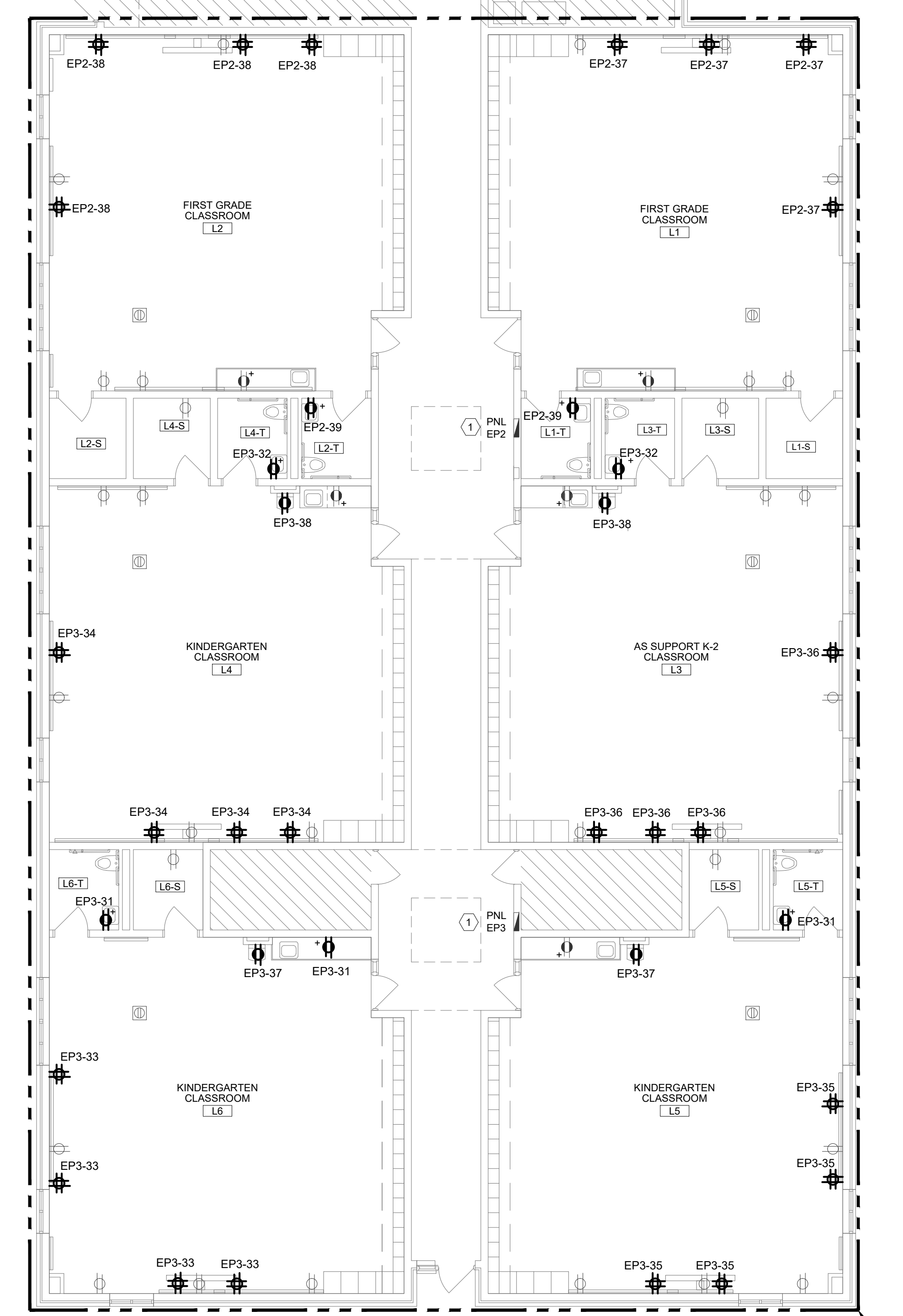
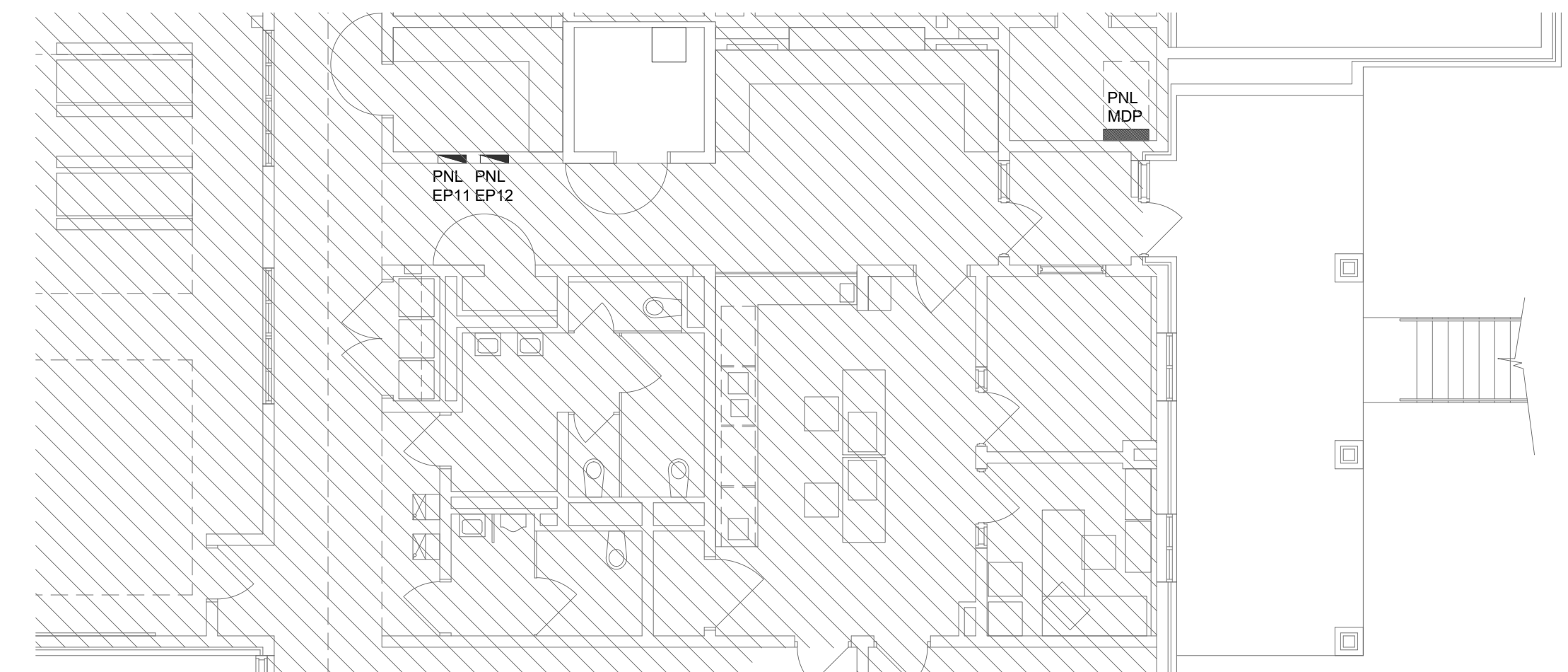
1. EXISTING PANELBOARD TO REMAIN. MODIFY EXISTING CIRCUITING AS NOTED ON PANEL SCHEDULE.
2. NEW TAMPER RESISTANT GFI RECEPTACLE. EXTEND AND CONNECT EXISTING CIRCUITING LEFT IN SAFE CONDITION DURING DEMOLITION PHASE. PROVIDE NEW WIRING AS REQUIRED.
3. NEW WINDOW A/C UNIT. PROVIDE NEW SURFACE MOUNTED NEMA 6-20R RECEPTACLE AND SWITCH. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. RACEWAY, RECEPTACLE, SWITCH AND FACEPLATE SHALL BE BLACK IN COLOR.
4. REPLACE ALL EXISTING RECEPTACLES WITHIN THIS AREA WITH NEW TAMPER RESISTANT RECEPTACLE IN ACCORDANCE WITH NEC ARTICLE 406.12. EXTEND AND CONNECT EXISTING CIRCUITING LEFT IN SAFE CONDITION DURING DEMOLITION PHASE. PROVIDE NEW AS REQUIRED. NEW FACEPLATES SHALL BE STAINLESS STEEL.

**LEGEND**

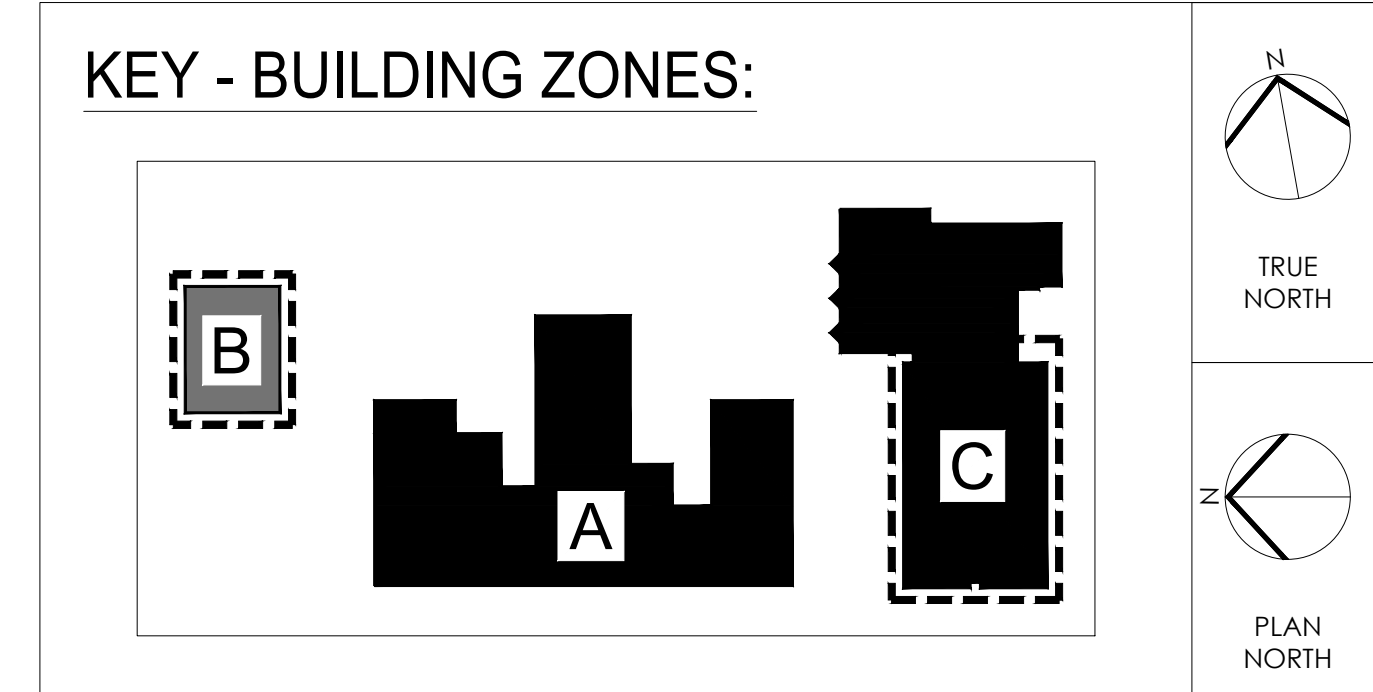
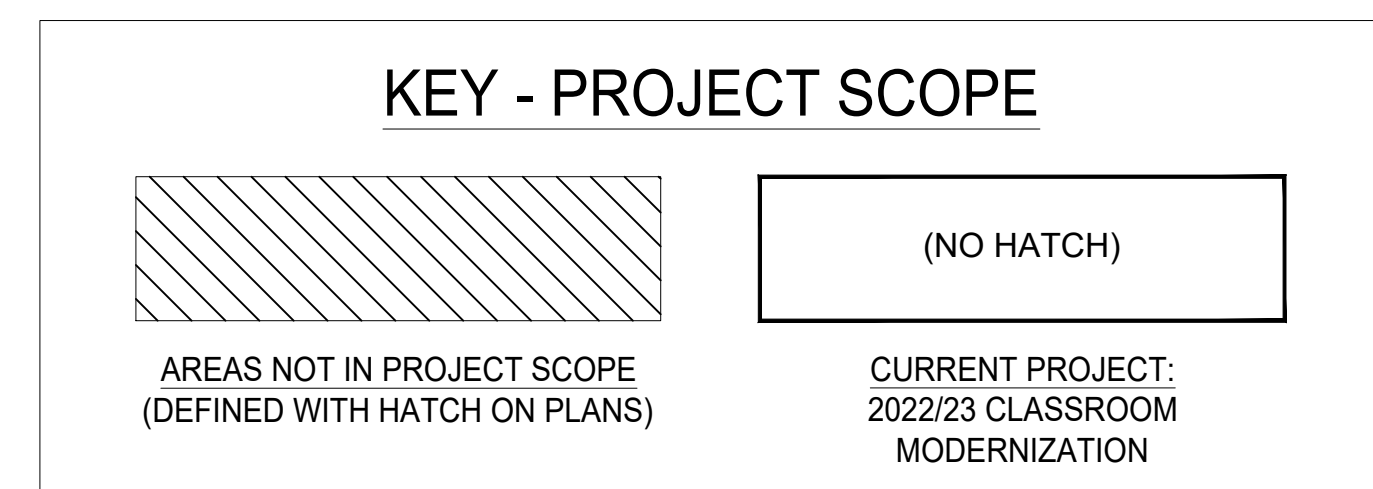
- EXISTING TO REMAIN
- NEW



**1 POWER PLAN - ZONE 'B'**  
E-121 SCALE: 1/8" = 1'-0"



**2 POWER PLAN - ZONE 'C'**  
E-121 SCALE: 1/8" = 1'-0"



- NOTES:**
- ZONE 'A' = 1926 "MAIN" BUILDING
  - ZONE 'B' = 1966 "PORTABLE" BUILDING
  - ZONE 'C' = 1997 "LITTLE SCHOOL HOUSE" BUILDING
  - "DASHED LINE" DEFINES PLAN AREA SHOWN ON SHEET.

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1	01/17/2022 ADDENDUM #1

NO.	DATE	REVISION
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SCHOOL & LOCATION  
**FRANCIS HOPKINSON SCHOOL**  
1301-31 E LUZERNE STREET, PHILADELPHIA, PA 19124

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**POWER PLANS - ZONES 'B' & 'C'**

DRAWING SCALE  
###

LOCATION NO.  
###

DRAWN BY: NIP  
CHECKED BY: GSP

GC - 2022-006-G  
PC - 2022-006-P  
EC - 2022-006-E

DRAWING NO.  
**E - 121**

SHEET 31 OF 35

SEAL:



Name: Kevin Ray Goodhart DATE: 10/22/1996  
STATE AND LICENSE NO: RA014763X

**ARCHITECT:**  
GODSHALL KANE O'ROURKE ARCHITECTS, LLC  
300 BROOKSIDE AVENUE - BLDG. 18 - SUITE 150  
AMBLER, PA 19002  
Phone: 215.646.2003  
Email: ALLISON@GKOARCHITECTS.COM  
Attn: ALLISON KLINGLER, RA

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Attn: GOPI PATEL

**GENERAL NOTES**

1. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE 2017 AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES & ORDINANCES.
2. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, REFER TO ELECTRICAL LEAD SHEET.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LATEST VERSION OF SCHOOL DISTRICT OF PHILADELPHIA TECHNOLOGY DESIGN STANDARDS.
4. ALL NEW DEVICES MOUNTED TO CMU BLOCK WALL SHALL BE SURFACE MOUNTED. PROVIDE SURFACE MOUNT EMT WITH BOXES AND FITTINGS AS REQUIRED. GC TO PAINT RACEWAY TO MATCH WALL SURFACE. FINAL APPROVAL ON PAINT COLOR BY ARCHITECT.

**SHEET NOTES**

1. NOT USED.
2. REPLACE ALL EXISTING CABLES FOR TELEPHONE AND DATA DEVICES WITHIN THIS AREA WITH NEW CAT6 CABLES.
3. PROVIDE NEW 24V-POWERED SAPLING SAM SERIES SAM-4BS-12R-4 ROUND CLOCK. REUSE EXISTING WIRING TO CONNECT TO EXISTING BUILDING CLOCK SYSTEM WHERE FEASIBLE. PROVIDE NEW AS REQUIRED.
4. EXISTING MDF ROOM TO REMAIN. PROVIDE NEW PATCH PANELS FOR TERMINATION OF NEW CABLING INDICATED ON PLANS. ALL PATCH PANELS SHALL BE PROVIDED INTO EXISTING RACKS. PANELS SHALL BE STEEL AND SHALL ALLOW FOR MOUNTING OF ALL CAT-5, 5E (EXISTING CABLES) AND/OR CAT-6, 6A (NEW CABLES) JACKS. PANELS SHALL BE BLANK PANELS IN 24 AND 48 PORT CONFIGURATIONS THAT ACCEPTS ALL MODULAR JACKS. PANELS SHALL HAVE REAR CABLE SUPPORT BAR FOR STRAIN RELIEF WHICH SHALL CLIP TO THE REAR OF THE PATCH PANEL OR TO THE REAR OF THE RACK RAIL. PORTS SHALL BE MARKED ON TOP OF THE OPENING BY FACTORY. LABEL ALL PANELS, CABLES WITH THE OWNER (SDP) APPROVED LABELS.

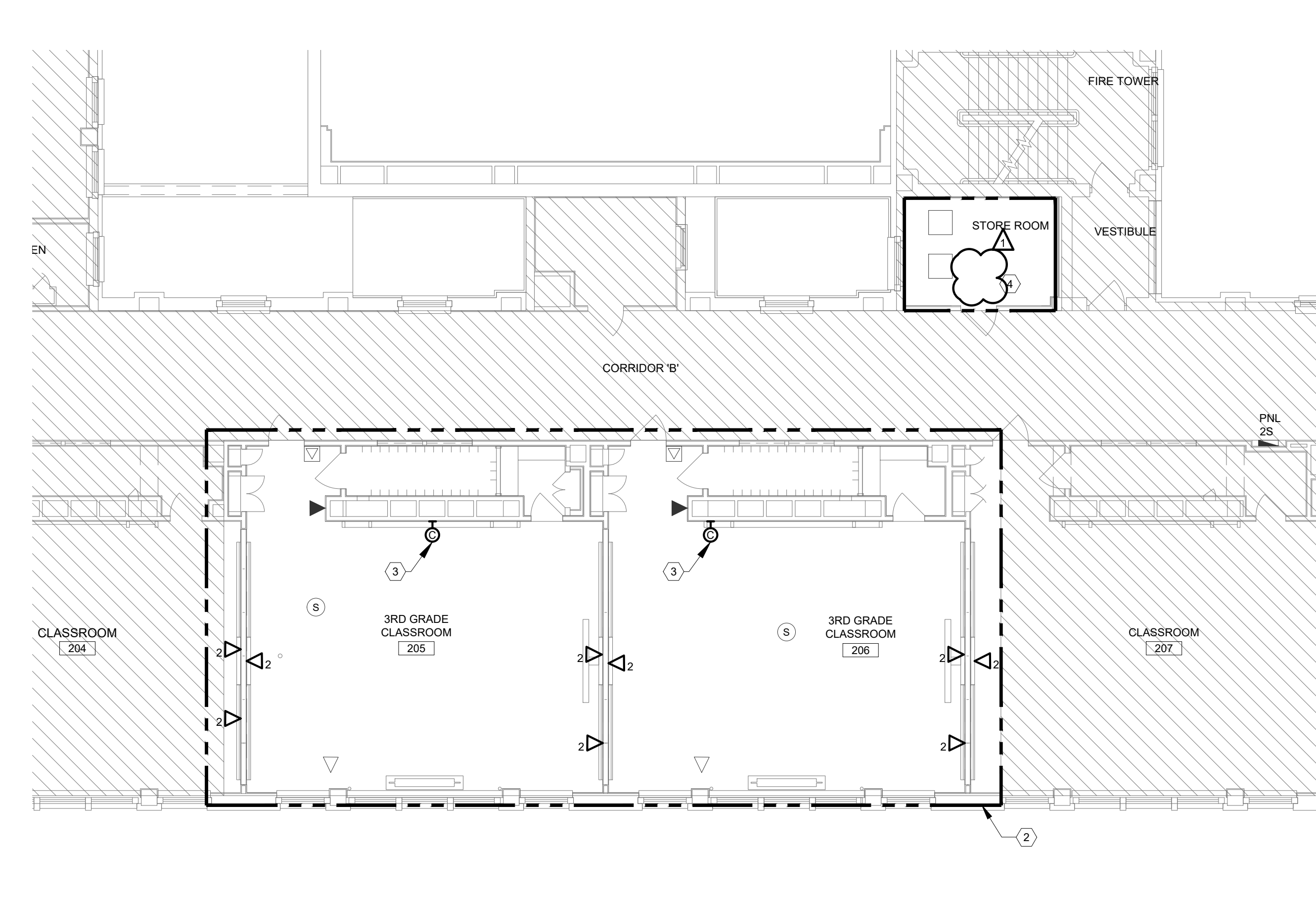
**LEGEND**

- EXISTING TO REMAIN
- NEW

**3 SPECIAL SYSTEMS PLAN - 2ND LEVEL - PARTIAL ZONE 'A'**

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

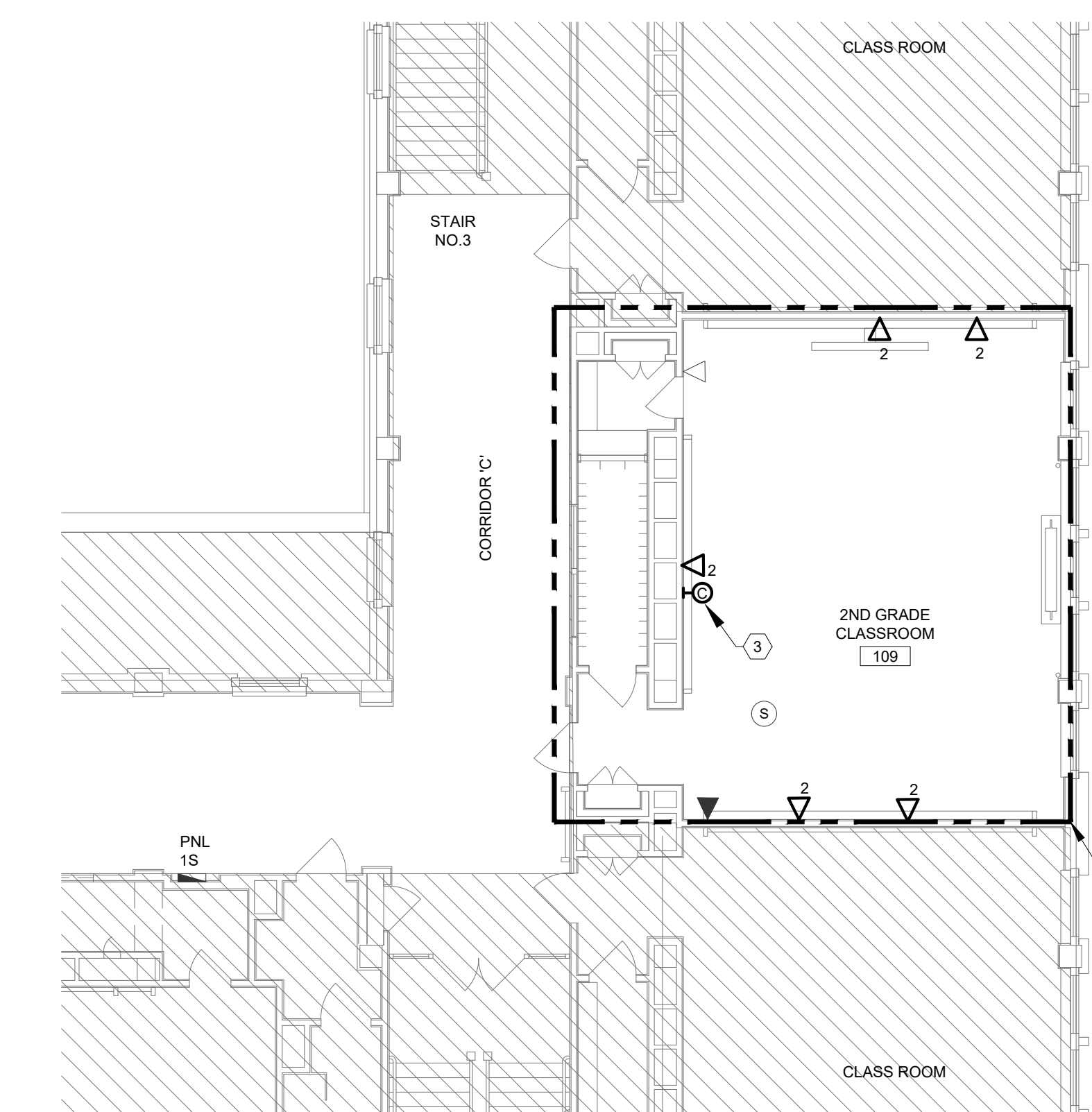
E-130



**1 SPECIAL SYSTEMS PLAN - 1ST LEVEL - PARTIAL ZONE 'A'**

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

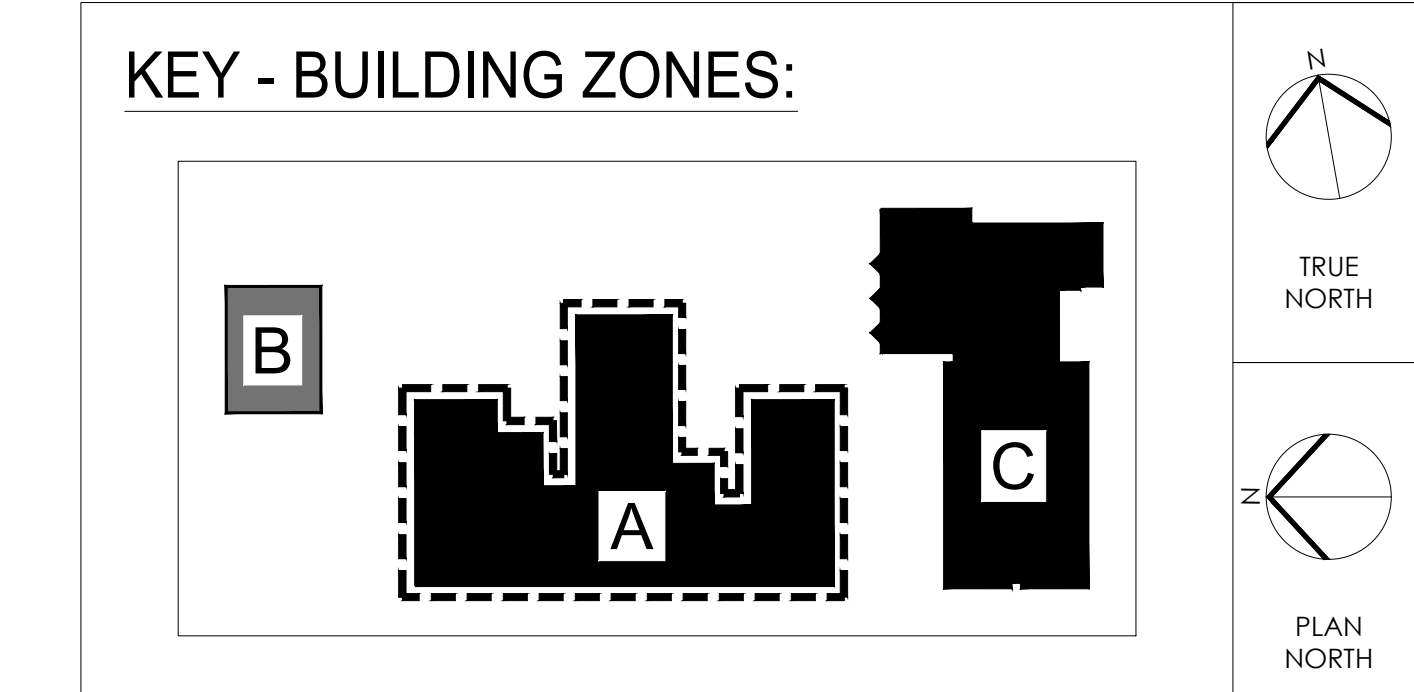
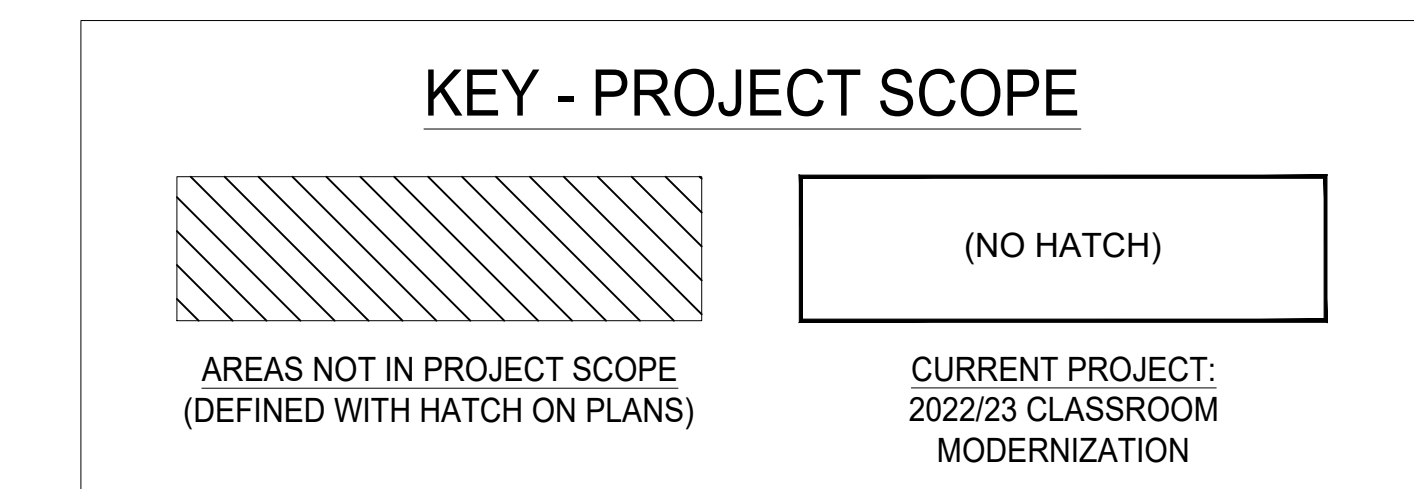
E-130



**2 SPECIAL SYSTEMS PLAN - 1ST LEVEL - PARTIAL ZONE 'A'**

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

E-130



- NOTES:**
- ZONE 'A' = 1926 "MAIN" BUILDING
  - ZONE 'B' = 1966 "PORTABLE" BUILDING
  - ZONE 'C' = 1997 "LITTLE SCHOOL HOUSE" BUILDING
  - "DASHED LINE" DEFINES PLAN AREA SHOWN ON SHEET.

**ISSUE FOR BID**  
01/14/2022

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NO.	DATE	REVISION
1	02/17/2022	ADDENDUM #1

SCHOOL & LOCATION  
**FRANCIS HOPKINSON SCHOOL**  
1301-31 E LUZERNE STREET, PHILADELPHIA, PA 19124

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**SPECIAL SYSTEMS PLANS - 1ST & 2ND LEVELS - PARTIAL ZONE 'A'**

DRAWING SCALE  
###

LOCATION NO.  
###

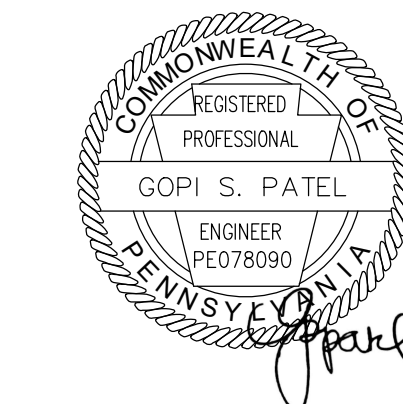
DRAWN BY: NIP  
CHECKED BY: GSP

GC - 2022-006-G  
FC - 2022-006-F  
EC - 2022-006-E

DRAWING NO.  
**E - 130**

SHEET 32 OF 35

SEAL:



Name: Kevin Ray Goodhart DATE: 10/22/1996  
STATE AND LICENSE NO: RA014783X

**ARCHITECT:**  
GODSHALL KANE O'ROURKE ARCHITECTS, LLC  
330 BROOKSIDE AVENUE - BLDG. 18 - SUITE 150  
AMBLER, PA, 19002  
Phone: 215.646.2003  
Email: ALLISON@GKOARCHITECTS.COM  
Attn: ALLISON KLINGLER, RA

**MECHANICAL / PLUMBING / ELECTRICAL ENGINEER:**  
PSQUARED CONSULTING ENGINEERS  
920 GERMANTOWN PIKE, SUITE 20  
PLYMOUTH MEETING, PA 19462  
Phone: 484.539.9459  
Email: GOPI.PATEL@PSQUAREDENG.COM  
Attn: GOPI PATEL

**GENERAL NOTES**

1. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE 2017 AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES & ORDINANCES.
2. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, REFER TO ELECTRICAL LEAD SHEET.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LATEST VERSION OF SCHOOL DISTRICT OF PHILADELPHIA TECHNOLOGY DESIGN STANDARDS.
4. ALL NEW DEVICES MOUNTED TO CMU BLOCK WALL SHALL BE SURFACE MOUNTED. PROVIDE SURFACE MOUNT EMT WITH BOXES AND FITTINGS AS REQUIRED. GC TO PAINT RACEWAY TO MATCH WALL SURFACE. FINAL APPROVAL ON PAINT COLOR BY ARCHITECT.

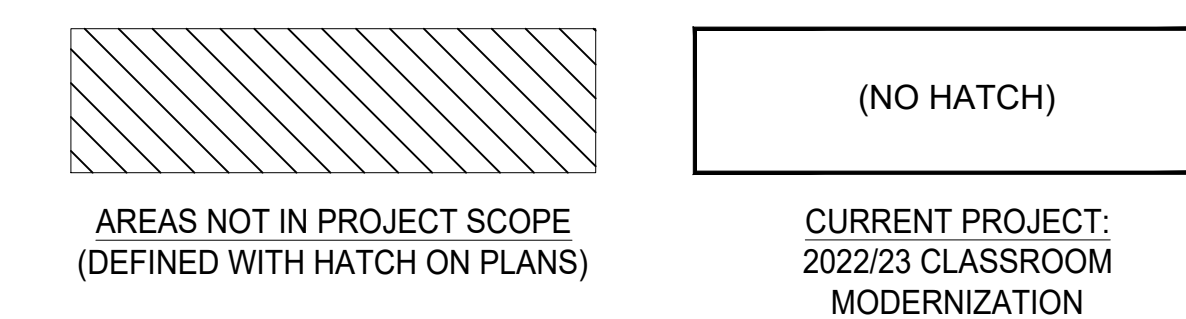
**SHEET NOTES**

1. NOT USED.
2. REPLACE ALL EXISTING CABLES FOR TELEPHONE AND DATA DEVICES WITHIN THIS AREA WITH NEW CAT6 CABLES. PROVIDE NEW JACKS AND FACEPLATES.
3. PROVIDE NEW 24V-POWERED SAFLING SAM SERIES SAM-4BS-12R-4 ROUND CLOCK. REUSE EXISTING WIRING TO CONNECT TO EXISTING BUILDING CLOCK SYSTEM WHERE FEASIBLE. PROVIDE NEW AS REQUIRED.
4. PROVIDE NEW BOGEN MBMTSOVVR SURFACE MOUNTED SPEAKER. PROVIDE NEW CAT6 CABLE CONNECTION CLOSEST PA SYSTEM PATCH PANEL.  
 1. ATTACH THE BLUE PAIR OF THE CAT 6A CABLE TO TERMINATE TO THE SPEAKER WIRES. CONNECT BLUE WIRE TO THE APPROPRIATE TRANSFORMER TAP WIRES:  
 1W TAP - CLASSROOMS / OFFICES / ETC.  
 4W TAP - COMMON AREA / HALLWAYS / ETC.  
 CONNECT WHITE WIRE TO COMMON.  
 2. INDIVIDUALLY CLIP EACH TIP OF EXPOSED WIRE ON THE UNUSED CAT 6A WIRING AND SPEAKER POWER TAPS AND PLACE THEM NEATLY AROUND THE SPEAKER HOUSING. THIS WILL ENSURE THAT UNUSED TAP LEADS WILL NOT CAUSE SHORTING PROBLEMS.
5. EXISTING IT RACK RELOCATED. RE-ROUTE AND RECONNECT ALL EXISTING WIRING TO NEW RACK LOCATION. PROVIDE NEW PATCH PANELS AS REQUIRED FOR TERMINATION OF NEW CABLING INDICATED ON PLANS. ALL PATCH PANELS SHALL BE PROVIDED INTO EXISTING RACK WHERE FEASIBLE. PROVIDE NEW RACK AS NECESSARY. PANELS SHALL BE STEEL AND SHALL ALLOW FOR MOUNTING OF ALL CAT-5, 5E (EXISTING CABLES) AND/OR CAT-6, 6A (NEW CABLES) JACKS. PANELS SHALL BE BLANK PANELS IN 24 AND 48 PORT CONFIGURATIONS THAT ACCEPTS ALL MODULAR JACKS; PANELS SHALL HAVE REAR CABLE SUPPORT BAR FOR STRAIN RELIEF WHICH SHALL CLIP TO THE REAR OF THE PATCH PANEL OR TO THE REAR OF THE RACK RAIL. PORTS SHALL BE MARKED ON TOP OF THE OPENING BY FACTORY. LABEL ALL PANELS. CABLES WITH THE OWNER (SDP) APPROVED LABELS.
6. EXISTING IDF ROOM TO REMAIN. PROVIDE NEW PATCH PANELS AS REQUIRED FOR TERMINATION OF NEW CABLING INDICATED ON PLANS. ALL PATCH PANELS SHALL BE PROVIDED INTO EXISTING RACKS. PANELS SHALL BE STEEL AND SHALL ALLOW FOR MOUNTING OF ALL CAT-5, 5E (EXISTING CABLES) AND/OR CAT-6, 6A (NEW CABLES) JACKS. PANELS SHALL BE BLANK PANELS IN 24 AND 48 PORT CONFIGURATIONS THAT ACCEPTS ALL MODULAR JACKS; PANELS SHALL HAVE REAR CABLE SUPPORT BAR FOR STRAIN RELIEF WHICH SHALL CLIP TO THE REAR OF THE PATCH PANEL OR TO THE REAR OF THE RACK RAIL. PORTS SHALL BE MARKED ON TOP OF THE OPENING BY FACTORY. LABEL ALL PANELS. CABLES WITH THE OWNER (SDP) APPROVED LABELS.

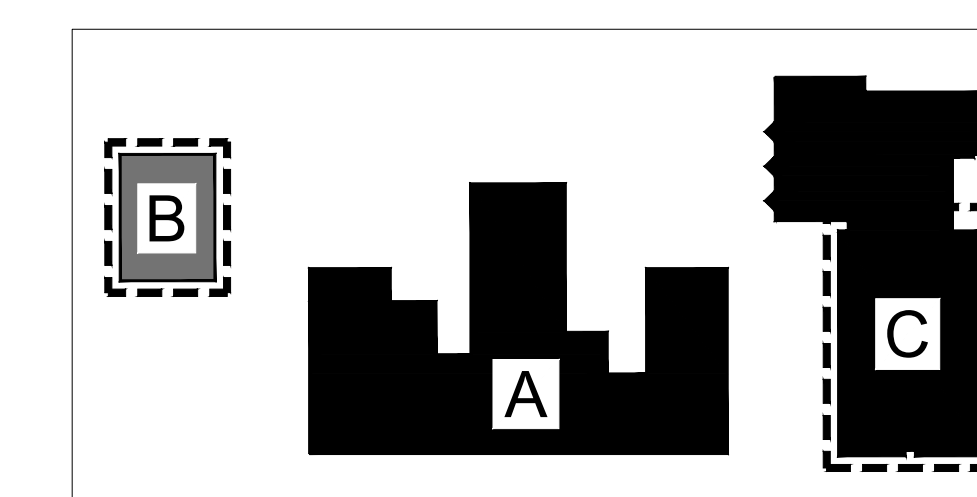
**LEGEND**

- EXISTING TO REMAIN
- NEW

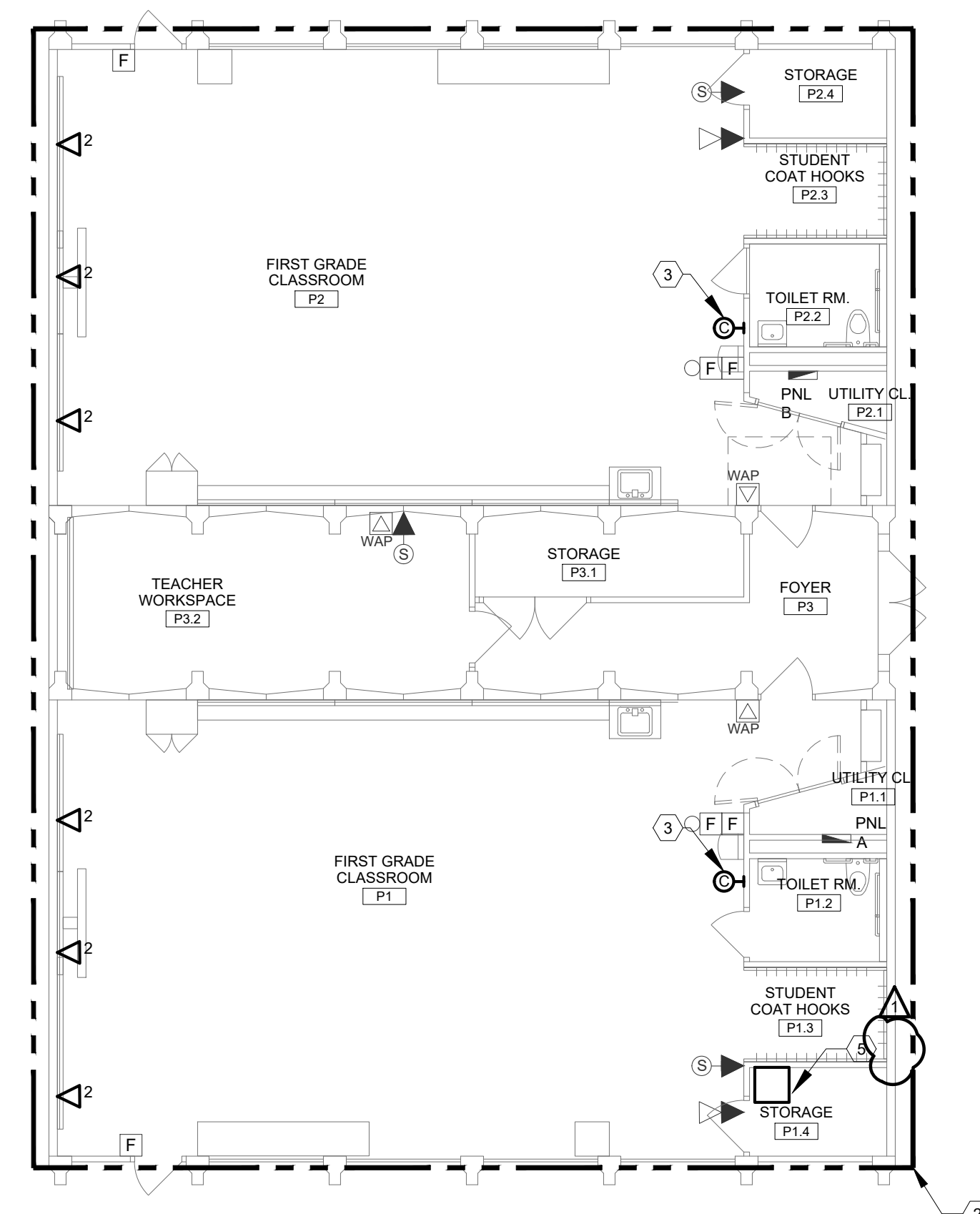
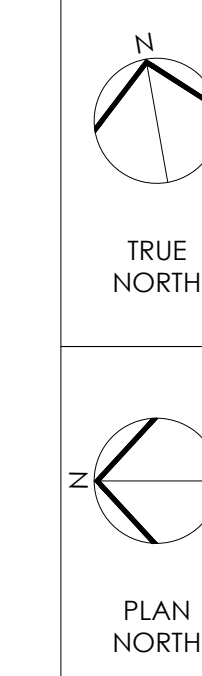
**KEY - PROJECT SCOPE**



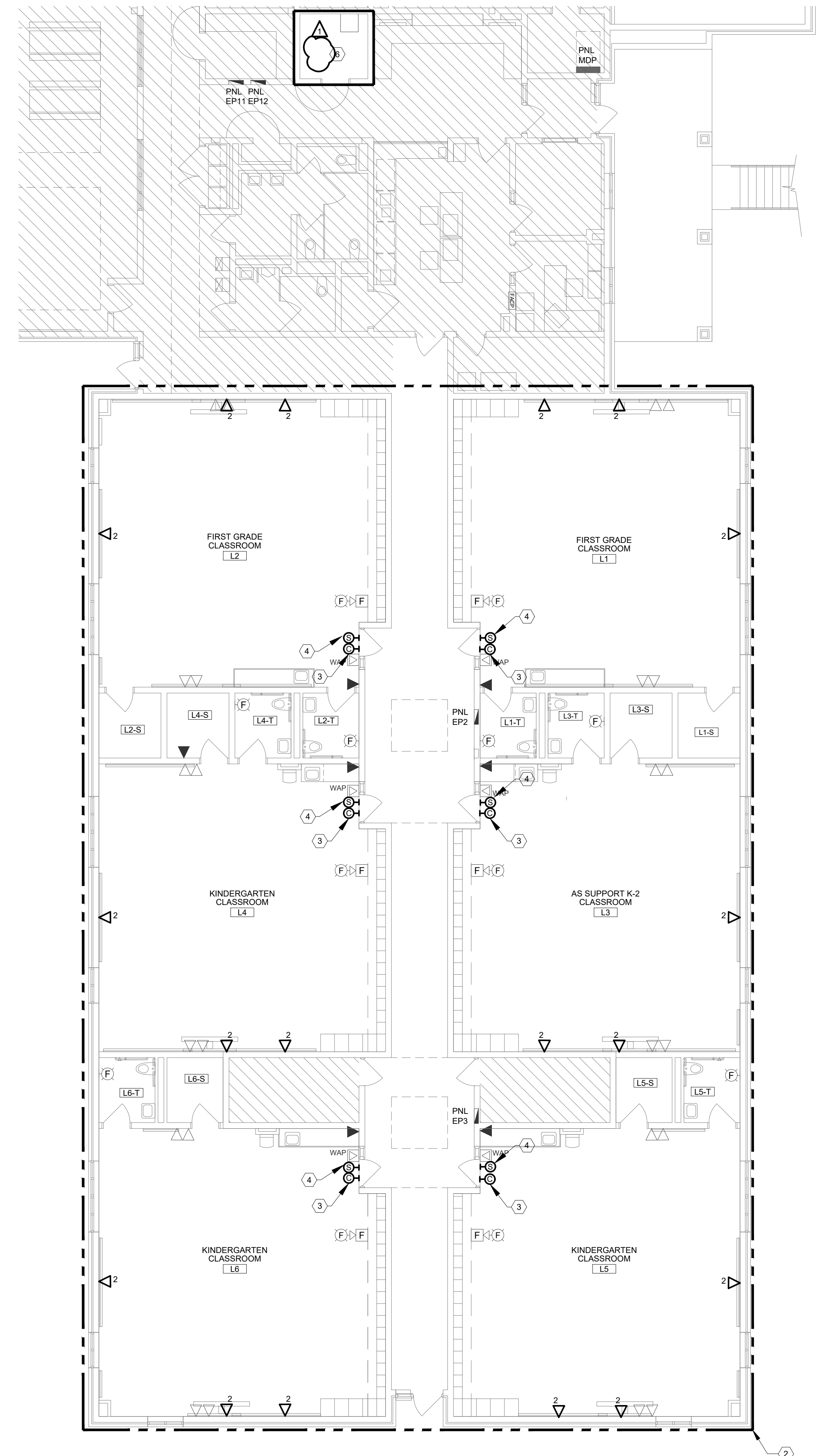
**KEY - BUILDING ZONES:**



- NOTES:**
- ZONE 'A' = 1926 "MAIN" BUILDING
  - ZONE 'B' = 1966 "PORTABLE" BUILDING
  - ZONE 'C' = 1997 "LITTLE SCHOOL HOUSE" BUILDING
  - "DASHED LINE" DEFINES PLAN AREA SHOWN ON SHEET.



**1 SPECIAL SYSTEMS PLAN - ZONE 'B'**  
SCALE: 1/8" = 1'-0"



**2 SPECIAL SYSTEMS PLAN - PARTIAL ZONE 'C'**  
SCALE: 1/8" = 1'-0"

**ISSUE FOR BID 01/14/2022**

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NO.	DATE	REVISION
1	01/17/2022	ADDENDUM #1

SCHOOL & LOCATION  
**FRANCIS HOPKINSON SCHOOL**  
1301-31 E LUZERNE STREET, PHILADELPHIA, PA 19124

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**SPECIAL SYSTEMS PLANS - ZONES 'B' & 'C'**

LOCATION NO. ###	CHECKED BY GSP
DRAWN BY NIP	
GC - 2022-006-G FC - 2022-006-F EC - 2022-006-E	

DRAWING NO.  
**E - 131**  
SHEET 33 OF 35

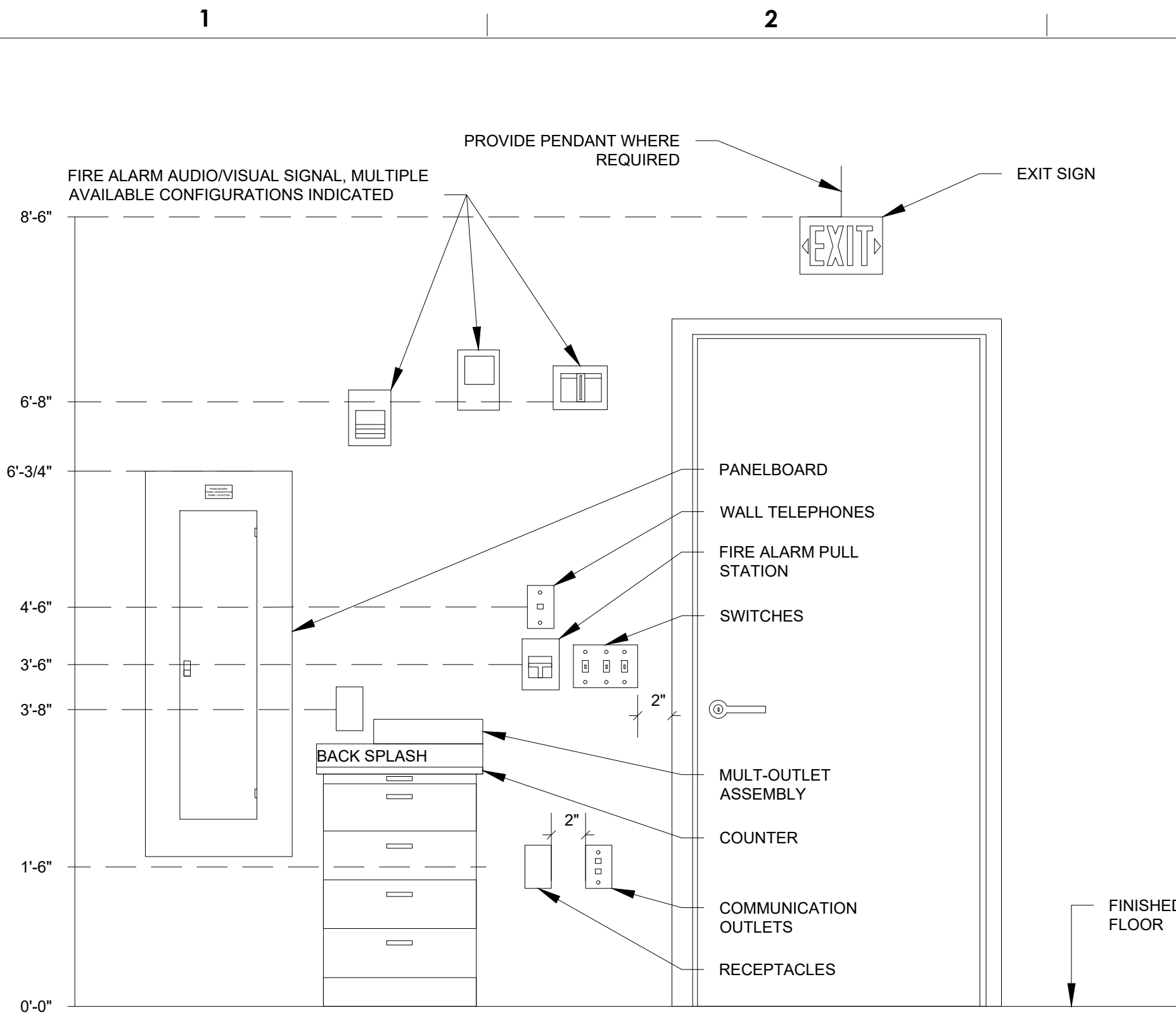
SEAL:



Name: Kevin Ray Goodhart DATE: 10/22/1996  
STATE AND LICENSE NO: RAD14763X

ARCHITECT:  
GODSHALL KANE O'ROURKE ARCHITECTS, LLC  
300 BROOKSIDE AVENUE - BLDG. 18 - SUITE 150  
AMBLER, PA, 19002  
Phone: 215.646.2003  
Email: ALLISON@GKOARCHITECTS.COM  
Attn: ALLISON KLINGLER, RA

MECHANICAL / PLUMBING / ELECTRICAL ENGINEER:  
PSQUARED CONSULTING ENGINEERS  
920 GERMANTOWN PIKE, SUITE 20  
PLYMOUTH MEETING, PA 19462  
Phone: 484.539.9459  
Email: GOPI.PATEL@PSQUAREDENG.COM  
Attn: GOPI PATEL

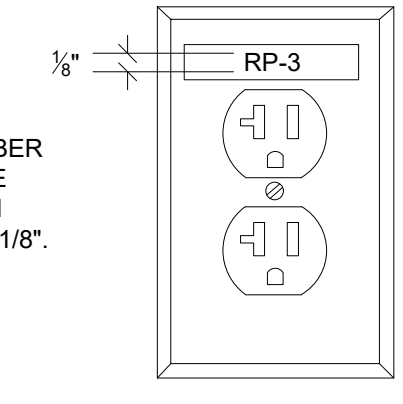


**1 EQUIPMENT MOUNTING ELEVATION**  
E-200 SCALE: NOT TO SCALE

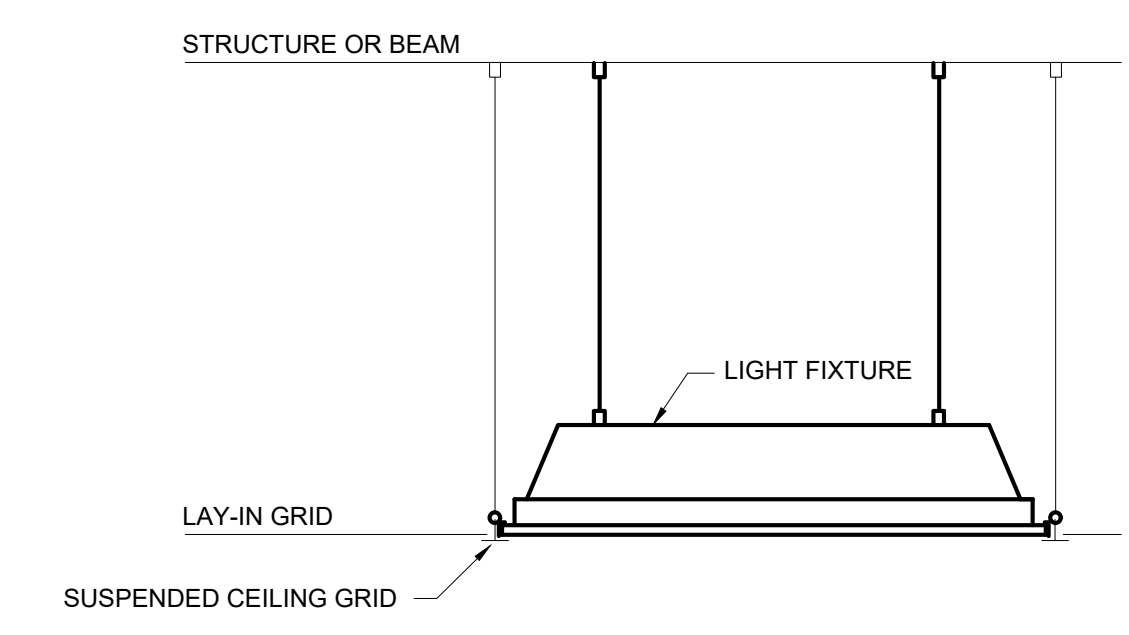
1. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL
2. PROVIDE WIRING AND CONDUIT BETWEEN ALL OUTLETS/FIXTURES INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
3. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED. ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
4. BRANCH CIRCUIT WIRING IS INDICATED ON THE DRAWINGS IN ACCORDANCE FOR BOTH LIGHTING AND POWER.
5. LIGHT SWITCH CONTROLS LIGHTS IN THE SAME ROOM UON.
- 6.

**2 BRANCH CIRCUIT WIRING NOTES**  
E-200 SCALE: NOT TO SCALE

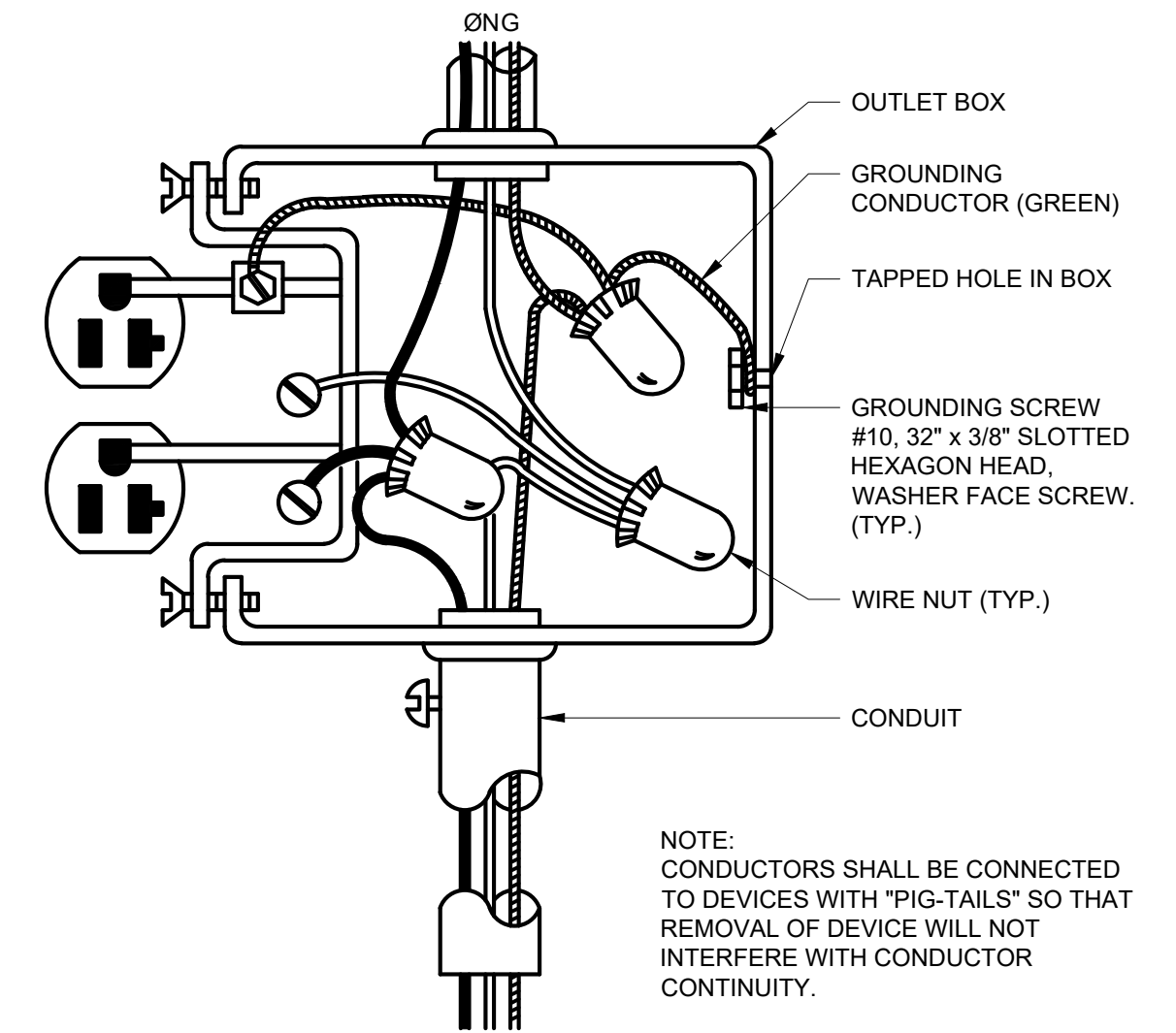
PROVIDE A LABEL FOR EACH RECEPTACLE TO INDICATE PANEL AND CIRCUIT BREAKER NUMBER SUPPLYING THE DEVICE. PROVIDE PRESSURE SENSITIVE, LABEL WITH BLACK LETTERING ON CLEAR BACKGROUND. LETTERING HEIGHT IS 1/8".



**3 RECEPTACLE LABELING DETAIL**  
E-200 SCALE: NOT TO SCALE



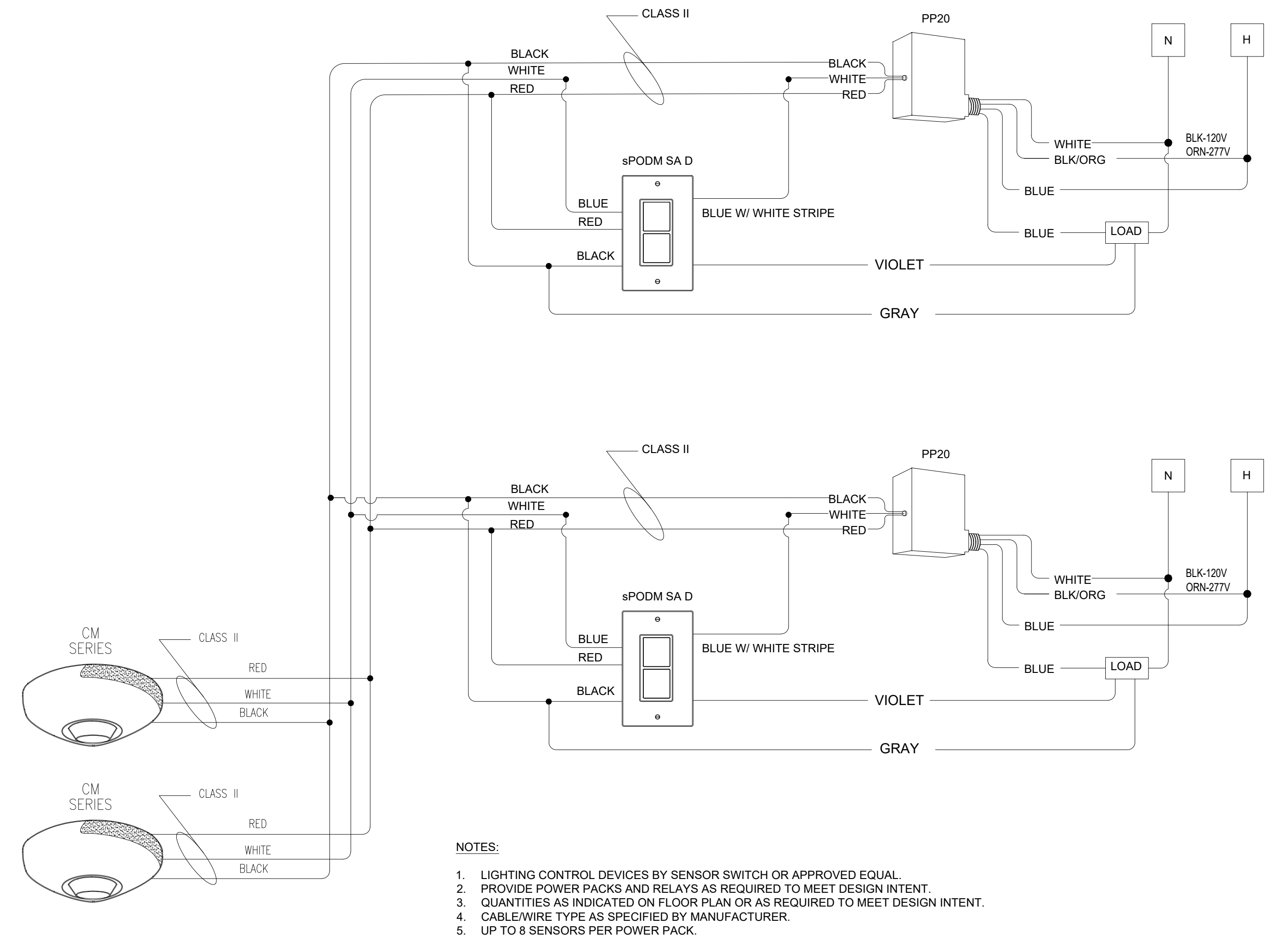
**5 LAY-IN GRID FIXTURE MOUNTING DETAIL**  
E-200 NOT FOR SCALE



**4 TYPICAL RECEPTACLE WIRING**  
E-200 SCALE: NOT TO SCALE

MAX. LENGTH WHEN USING						
VOLTAGE	PHASE	AMPS	#12	#10	#8	#6
120	1	4	250'	410'	620'	-
120	1	8	125'	200'	310'	-
120	1	12	80'	135'	205'	320'
120	1	16	60'	100'	155'	240'
208	1	4	420'	700'	-	-
208	1	8	210'	350'	530'	-
208	1	12	140'	235'	350'	550'
208	1	16	105'	175'	270'	410'
277	1	6	380'	620'	-	-
277	1	8	280'	470'	-	-
277	1	10	225'	380'	560'	-
277	1	12	190'	310'	480'	-

**7 VOLTAGE DROP TABLE**  
E-200 SCALE: NOT TO SCALE

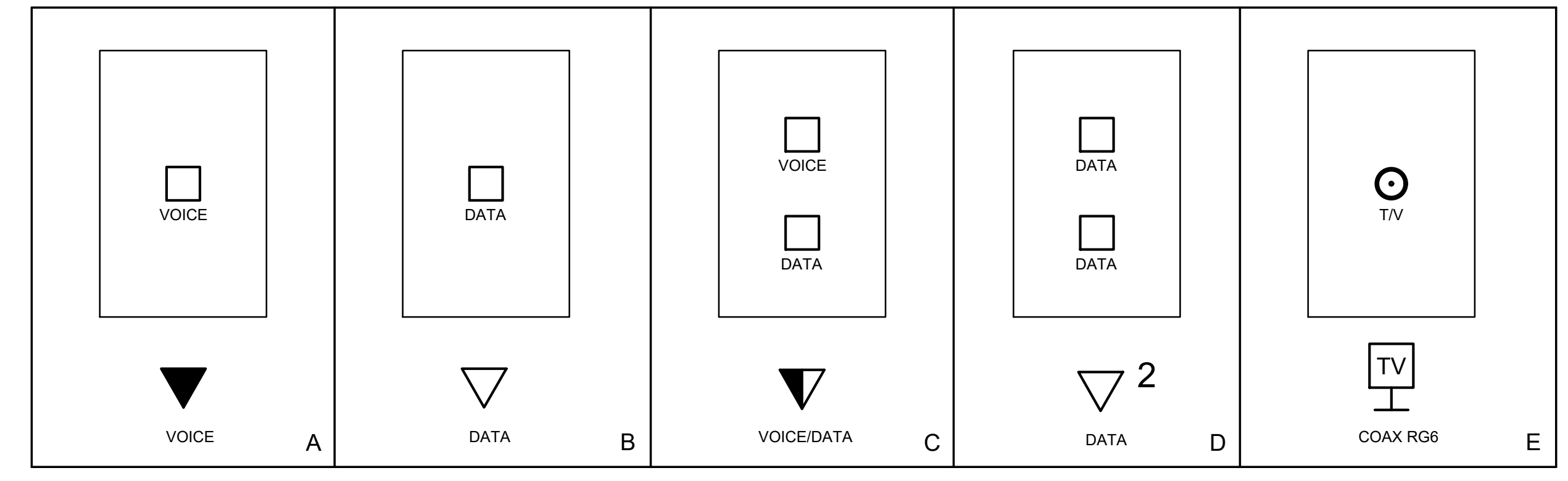


1. LIGHTING CONTROL DEVICES BY SENSOR SWITCH OR APPROVED EQUAL.
2. PROVIDE POWER PACKS AND RELAYS AS REQUIRED TO MEET DESIGN INTENT.
3. QUANTITIES AS INDICATED ON FLOOR PLAN OR AS REQUIRED TO MEET DESIGN INTENT.
4. CABLEWIRE TYPE AS SPECIFIED BY MANUFACTURER.
5. UP TO 8 SENSORS PER POWER PACK.

**6 LOW VOLTAGE DIMMING SWITCH W/ MOTION SENSOR WIRING DIAGRAM**  
E-200 SCALE: NOT FOR SCALE

TELECOMM/ACCESS CONTROL/AUDIO-VISUAL/SURVEILLANCE/ELECTRICAL RESPONSIBILITY MATRIX													
SYMBOLS	DESCRIPTION	CONDUIT			BACKBOX			FACEPLATE		WIRING		COMMENTS	
		SIZE	FURNISHED & INSTALLED	FROM	TO	SIZE	FURNISHED & INSTALLED	MOUNTING HEIGHT	DETAIL	FURNISHED & INSTALLED	TYPE		FURNISHED & INSTALLED
TELECOM													
▼	TWO JACK COMBINATION VOICE/DATA OUTLET	3/4"	ELECTRICAL CONTRACTOR	BACK BOX	ABOVE ACCESSIBLE CEILING	4"x4"x2-1/2" MIN DOUBLE GANG BACKBOX W/ SINGLE GANG MUD RING ADAPTER	ELECTRICAL CONTRACTOR	SEE DWG. E0.00	SEE DETAIL #1/C	ELECTRICAL CONTRACTOR	(2)CAT-6	ELECTRICAL CONTRACTOR	MATCH EXISTING CABLE COLOR; STAINLESS STEEL FACEPLATE
▼	SINGLE JACK VOICE OUTLET	3/4"	ELECTRICAL CONTRACTOR	BACK BOX	ABOVE ACCESSIBLE CEILING	4"x4"x2-1/2" MIN DOUBLE GANG BACKBOX W/ SINGLE GANG MUD RING ADAPTER	ELECTRICAL CONTRACTOR	SEE DWG. E0.00	SEE DETAIL #1/A	ELECTRICAL CONTRACTOR	CAT-6	ELECTRICAL CONTRACTOR	MATCH EXISTING CABLE COLOR; COMMSCOPE M10LW4SP 1-PORT SINGLE GANG STAINLESS STEEL TELEPHONE FACEPLATE
▼	SINGLE JACK SINGLE GANG DATA OUTLET	3/4"	ELECTRICAL CONTRACTOR	BACK BOX	ABOVE ACCESSIBLE CEILING	4"x4"x2-1/2" MIN DOUBLE GANG BACKBOX W/ SINGLE GANG MUD RING ADAPTER	ELECTRICAL CONTRACTOR	SEE DWG. E0.00	SEE DETAIL #1/B	ELECTRICAL CONTRACTOR	CAT-6	ELECTRICAL CONTRACTOR	MATCH EXISTING CABLE COLOR; STAINLESS STEEL FACEPLATE
▼ <sup>2</sup>	TWO JACK SINGLE GANG DATA OUTLET	3/4"	ELECTRICAL CONTRACTOR	BACK BOX	ABOVE ACCESSIBLE CEILING	4"x4"x2-1/2" MIN DOUBLE GANG BACKBOX W/ SINGLE GANG MUD RING ADAPTER	ELECTRICAL CONTRACTOR	SEE DWG. E0.00	SEE DETAIL #1/D	ELECTRICAL CONTRACTOR	(2)CAT-6	ELECTRICAL CONTRACTOR	MATCH EXISTING CABLE COLOR; STAINLESS STEEL FACEPLATE
▲ WAP	WIRELESS ACCESS POINT	3/4"	ELECTRICAL CONTRACTOR	TOP BOX	ABOVE ACCESSIBLE CEILING	SEE DETAIL 1/E-510	ELECTRICAL CONTRACTOR	SEE DWG. E0.00	N/A	N/A	(2)CAT-6	ELECTRICAL CONTRACTOR	MATCH EXISTING CABLE COLOR; STAINLESS STEEL FACEPLATE
TV	SINGLE GANG CABLE	3/4"	ELECTRICAL CONTRACTOR	BACK BOX	ABOVE ACCESSIBLE CEILING	4"x4"x2-1/2" MIN DOUBLE GANG BACKBOX W/ DOUBLE GANG MUD RING ADAPTER	ELECTRICAL CONTRACTOR	SEE DWG. E0.00	SEE DETAIL #1/E	ELECTRICAL CONTRACTOR	RG-6	ELECTRICAL CONTRACTOR	MATCH EXISTING CABLE COLOR; STAINLESS STEEL FACEPLATE

NOTE: ALL WORK SHALL BE DONE IN ACCORDANCE WITH LATEST VERSION OF SCHOOL DISTRICT OF PHILADELPHIA TECHNOLOGY DESIGN STANDARDS



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1	02/17/2022	ADDENDUM #1

SCHOOL & LOCATION  
**FRANCIS HOPKINSON SCHOOL**  
1301-31 E LUZERNE STREET, PHILADELPHIA, PA 19124

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**ELECTRICAL DETAILS**

DRAWING SCALE	
LOCATION NO. ###	CHECKED BY GSP
DRAWN BY NIP	
GC - 2022-006-G FC - 2022-006-F EC - 2022-006-E	

DRAWING NO.  
**E - 200**  
SHEET 34 OF 35