ADDENDUM NO. 1
to
CONTRACT DOCUMENTS

for
ADDITIONS AND RENOVATIONS
to the
PRINCETON MIDDLE SCHOOL
located at 217 Walnut Lane, Princeton, NJ 08540

for
PRINCETON PUBLIC SCHOOLS
PRINCETON, MERCER COUNTY, NEW JERSEY

Issued: January 15, 2026

FVHD PROJECT NO. 5516B

FRAYTAK VEISZ HOPKINS DUTHIE, P.C.
Architects-Planners
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69 West End Avenue, Somerville, NJ 08876
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HARRISON - HAMNETT, PC
Consulting Structural Engineers
40 Knowles St., Pennington, NJ 08534
Donald M. Hamnett, P.E., No. 17976

FRENCH & PARRELLO ASSOCIATES
Consulting Engineers
1800 Route 34, Suite 101, Wall, New Jersey 07719
Amin H. Gomaa, P.E., No. 24GE04842100

INTENT

This Document supersedes all conflicting and contrary information in said Contract Documents. Said documents are hereby amended in certain particulars as described herein after. Unless specifically noted or specified hereinafter all work shall conform to the applicable provisions of the Contract Documents. Bidders shall acknowledge receiving this document on Bid Proposal Form.

This Addendum includes eleven (11) pages and the following attachments:

1. Revised Bid Proposal Form (8-pages).
2. Pre-Bid Meeting Sign-in Sheet (2-pages).
3. New Specification Section(s)
   a. 08950 – Insulated Translucent Fiberglass Sandwich Panel Wall System (6-pages)
   b. 11011 – Wood Casework (13-pages)
4. Replaced Specification Section(s)
   a. 09685 – Carpet Tile (11-pages)
5. Revised Drawing(s)
   a. Civil: C-3.0, C-8.2
   b. Architectural: A103, A104, A105, A107, A306, A400, A401, A402, A403, A404, A405, A406, A407, A408, A601, A602, A701, A702, A703
   c. Plumbing: P2.0, P4.0, P6.1, P7.1
   d. Mechanical: M1.0, M2.1, M4.0, M5.1, M6.0, M8.1, M8.2
   e. Electrical: E2.0, E3.0, E3.1, E3.2, E4.0, E4.1, E4.3, E5.0, E5.1, E5.3, E5.4, E5.5, E6.0, E6.1, E7.0, E9.0, E9.1, E9.2

REQUESTS FOR INFORMATION (RFI'S)

1. Question: Please provide location(s) of Bird Control Devices.

   Response: Bird Control Is deleted from the project. See revisions to Specification Section 10900 in this Addendum.

2. Question: Please provide quantity or locations of High Security Key Box(s).

   Response: Location has been added to the drawings – see revised Drawing A103, attached to this Addendum. FVHD does not provide quantities.

3. Question: Please clarify that Testing & Inspections are on the owner at no cost to the GC.

   Response: This is incorrect. See Specification Section 01400, page 1, paragraph 1.2. See also revisions to Section 01400, incorporated in this Addendum on page 1-8.

4. Question: Please confirm that Permits are Paid by Owner or Reimbursed.

   Response: See previously provided Drawing G002, General Note #11. See also response to RFI #20.

5. Question: Will there be onsite parking for the GC and subcontractors?

   Response: See Drawing A008 – Temp. Conditions Plan – Construction Phase 1.

6. Question: Please provide Bike Rack Manufacturer & Model # & provide details for footing if applicable.

   Response: See Detail 3 (“Permanent Steel Bike Rack”) on revised drawing C8.2, attached to this Addendum.

7. Question: Please provide a staging area for materials.

   Response: See Drawing A008 – Temp. Conditions Plan – Construction Phase 1.

8. Question: Please provide Temp Fence layout for accurate pricing.

   Response: See Drawing A008 – Temp. Conditions Plan – Construction Phase 1.

9. Question: The specs for the Princeton Middle School are showing 11012 Metal Cabinetry as ICI for basis of design. However, the drawings show only ICI numbers for WOOD Casework not steel. Which is usually more common in K-12 schools. Please confirm what application is intended.

   Response: See new Specification Section 11011, Wood Casework, attached to this Addendum.

10. Question: Please confirm location of Overhead Doors, Specifications included, not on plans.

    Response: Location and details are added to the drawings. See revised A105, A306, A601 and A602, attached to this Addendum.

11. Question: Please confirm which Projector Screens are by GC, there are many conflicting notes in the plans.

    Response: See revised A400 series drawings, attached to this Addendum.
    Wall and ceiling mounted projection screens are by GC.
    “Whiteboards” are by GC.
    Short-throw projectors are by Owner and not in contract.

12. Question: Regarding spec 10650 Operable Partition - Paragraph 2.7 Selected Options “Worksurfaces as indicated on drawings” (markerboard and tackboard) – Elevation drawing shows panels labeled as “EB” or “DMB”. Assuming “DMB” is dry marker board; is “EB” intended to be “Tack Board”?

    Response: “EB” is “exhibition board” which is the same as “tack board”.

13. Question: "Pocket doors" – Specifications include pocket doors, pocket doors are NOT shown on drawings. Please confirm if they are to be included for all units.

    Response: Pocket doors are required at the recesses where the folding partitions are stacked when not deployed. See revised A103, A104 and A105, attached to this Addendum.

14. Question: Will this project be subject to PLA, I did not see any information pertaining on the bid package. Please advise.

    Response: There is no PLA on this project.

15. Question: Please provide the contact info for the existing Fire Alarm, Security & BMS Vendors.

    Response: For Fire Alarm and Security, refer to Drawing E1.0, Electrical General Notes #84, 85 and 86 for Vendor Information. For BMS, refer to revised drawing M-1.0, Mechanical General Note #30, attached to this Addendum.

16. Question: Please provide specifications for the Insulated Translucent Fiberglass Sandwich Panel System.

    Response: See new Specification Section 08950 – Insulated Translucent Fiberglass Sandwich Panel Wall System, attached to this Addendum.

17. Question: Storefront Type # 3 on elevation A602 seems to have operable windows, but its drawn as SF in the detail S4/5/6. Only detail S7 shows a window, a casement on top of the SF. Please advise if these are SF frames with AW 3402i's set inside, or if there was another intention.

    Response: Storefront frame with Architectural Windows 3042i Casement Windows inset.
    (Note the window series is 3042i, not 3402i.)

18. Question: Is SF2 a fixed AW 3402i's on storefront or is it all storefront as the details show?

    Response: SF2 is storefront with spandrel glass and insulated panels as shown.
    (Note the window series is 3042i, not 3402i.)

19. Question: Specification Section 01400 indicates that all 3rd Party Testing will be done by the owner, however, Note 16/C2.0 indicates soil engineer is by the contractor, the concrete specification indicates testing by the contractor and the steel specification indicates testing is by the owner. Please clarify who is responsible for 3rd Party Testing.

    Response: Third Party Testing is an incomplete term in this context. Special Inspections are by the Owners Testing Inspection Agency and are listed on Drawing A001. The specifics of the Special Inspections are defined in the International Building Code, New Jersey Edition, 2021, Chapter 17. Testing and inspecting requirements other than the Special Inspections are the responsibility of the Contractor and are listed in the affected Specification Section.

20. Question: Drawing G002 indicates permits will be paid for by the owner, however, Paragraph 3.7.1 in the AIA contract indicates the contractor is to pay for permits. Please confirm that the owner will be paying for any and all permits as there is no way to know what that cost would be prior to applying for permits.

    Response: AIA A232, paragraph 2.3.1 indicates: “Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section .7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities. Unless otherwise provided under the Contract Documents, the Owner, assisted by the Construction Manager, shall secure and pay for the building permit.”

21. Question: Specification 01010-6, Paragraph 1.5.4.9 & 10 indicates that contractor is to “receive, unload and handle” owner furnished items. What is the extent of owner furnished items that the contractor is responsible to receive, unload and handle? This information is needed to be able provide an accurate price for this service and protection.

    Response: These items are indicated on the drawings.

22. Question: Please advise who is responsible for Data/IT, Security, PA/Sound. Is the owner providing these services with their own vendor or is the contractor responsible for the conduit and cabling?

    Response: Refer to Drawing E1.0, Electrical General Notes #84, 85 and 86 for Vendor Information, Low Voltage Symbol List Descriptions and "Important Note". All on the first Electrical sheet.

23. Question: Please confirm temporary electric and water for use in construction can be taken from the existing building service.

    Response: See Specification Section 01505, page 8, paragraphs 1.7 and 1.8.

Continued

REFER TO DRAWINGS

The following Drawing and Sketches are attached to this Addendum:

DRAWING NO.	TITLE
C-3.0	Site Layout Plan
C-8.2	Details
A103	Floor Plan – Block ‘A’ – First Floor
A104	Floor Plan – Block ‘A’ – Second Floor
A105	Floor Plan – Block ‘B’
A107	Reflected Ceiling Plan – Block ‘A’ – Second Floor
A306	Wall Sections
A400	Equipment Schedules, Details and Notes
A401	Enlarged Plans & Interior Elevations – Administration Offices and I. T. Offices
A402	Enlarged Plans & Interior Elevations – Classrooms, S.G.I & Work Room G10
A403	Enlarged Plans & Interior Elevations – Science Classrooms and Ensemble Room
A404	Enlarged Plans & Interior Elevations – Music Department
A405	Enlarged Plans & Interior Elevations – Cafeteria G108
A406	Enlarged Plans & Interior Elevations – Multi-Purpose Room
A407	Enlarged Plans & Interior Elevations – New Cafeteria
A408	Enlarged Plans & Interior Elevations – Faculty Dining & Life Skills
A601	Room Finish and Door Schedules, Details and Notes
A602	Window, Storefront and Translucent Panel Types and Details
A701	Floor Finish Plans
A702	Floor Finish Plans
A703	Floor Finish Plans
P2.0	Plumbing Demolition Plan – Block A
P4.0	Plumbing First Floor Plan – Block A
P6.1	Plumbing Part Plans
P7.1	Plumbing Water Riser Diagram
M1.0	Mechanical Symbols, Notes & Abbreviations
M2.1	Mechanical First Floor Demolition Plan – Block A
M4.0	Mechanical First Floor New Ductwork Plan – Block A
M.5.1	Mechanical First Floor Piping Plan – Block A
M6.0	Mechanical Roof Plan – Block A
M8.1	Mechanical Schedules
M8.2	Mechanical Schedules
E2.0	Electrical Demolition Plans – Block A
E3.0	Electrical First Floor Power Plan – Block A
E3.1	Electrical Second Floor Power Plan – Block A
E3.2	Electrical First Floor Power Plan – Block B
E4.0	Electrical First Floor HVAC Power Plan – Block A
E4.1	Electrical Second Floor HVAC Power Plan – Block A
E4.3	Electrical Roof HVAC Power Plan
E5.0	Electrical First Floor Lighting Plan – Block A
E5.1	Electrical Second Floor Lighting Plan – Block A
E5.3	Electrical First Floor Lighting Controls Plan – Block A
E5.4	Electrical Second Floor Lighting Controls Plan – Block A
E5.5	Electrical First Floor Lighting Controls Plan – Block B
E6.0	Electrical First Floor Low Voltage Plan – Block A

E6.1	Electrical Second Floor Low Voltage Plan – Block A
E7.0	Electrical First Floor Fire Alarm Plan – Block A
E9.0	Electrical Panel Schedules – Normal Power
E9.1	Electrical Panel Schedules – Emergency Power
E9.2	Electrical Mechanical Equipment Coordination Schedule & Tables

The following Drawings to be revised or corrected as follows:

DRAWING NO.	CHANGES AND CORRECTIONS
C-3.0, C-8.2	Delete the referenced drawings in their entirety and substitute with the enclosed revised drawings
A103, A104, A105, A107, A306, A400, A401, A402, A403, A404, A405, A406, A407, A408, A601, A602, A701, A702, A703	Delete the referenced drawings in their entirety and substitute with the enclosed revised drawings
P2.0, P4.0, P6.1, P7.1	Delete the referenced drawings in their entirety and substitute with the enclosed revised drawings
M1.0, M2.1, M4.0, M5.1, M6.0, M8.1, M8.2	Delete the referenced drawings in their entirety and substitute with the enclosed revised drawings.
E2.0, E3.0, E3.1, E3.2, E4.0, E4.1, E4.3, E5.0. E5.1, E5.3, E5.4, E5.5, E6.0, E6.1, E7.0, E9.0, E9.1, E9.2	Delete the referenced drawings in their entirety and substitute with the enclosed revised drawings.

PROPOSAL FORM

Delete the Bid Proposal Form in its entirety and substitute with the enclosed revised document.

Continued

REFER TO SPECIFICATIONS

TABLE OF CONTENTS

Under Part - 2 General Construction Work, add the following new sections which are attached to this Addendum:

08950	Insulated Translucent Fiberglass Sandwich Panel Wall System (6-pages)
11011	Wood Casework (13-pages)

Under Part - 2 General Construction Work, delete the following section:

11135	LCD Interactive Laser Display Projector

PART 1 - SECTION 01030 – ALTERNATE BIDS

Page	Paragraph	
01030-2	1.2	Revise sub-paragraph A to read as follows:

A. **Alternate Bid No.MS-1: Quartz Tile Flooring in Lieu of LVT at Cafeterias**

State the amount to be added to the base bid to provide and install quartz tile in lieu of Luxury Vinyl Tile (LVT) at the Cafeterias and all associated work, as shown on various Drawings and as indicated in various Specification sections.

PART 1 - SECTION 01400 – MATERIAL TESTING / QUALITY CONTROL SERVICES

Page	Paragraph	
01400-1	1.2.A	Revise sub-paragraph 1 to read as follows:

1. **International Construction Code (ICC) requires Special Inspections - Material Testing shall be engaged and performed through Owner's Testing Inspection Agency which will be paid for by the Owner**.

Continued.

PART 1 - SECTION 01900 – GUARANTEES AND WARRANTIES

Page	Paragraph	
01900-9	1.2	Delete sub-paragraph DD in its entirety and substitute with the following:

DD. Carpet Tile as specified in Section 09685

1. Twenty (20) year excessive surface wear (loss of more than 10% by weight of face fiber), edge ravel, backing separation, shrinking, stretching and static electricity Warranty from the date of invoice.
2. Twenty (20) year - Antimicrobial Preservative Protection Warranty.
3. Special Project Warranty:
   a. In addition, a written special project warranty, executed by the Contractor and the Installer, agreeing to repair or replace carpet which fails in material or workmanship within a period of two (2) years, which starts at the date of substantial completion, without any cost to the Owner, and agreeing to repair or replace other defects beyond Contractor's / Installer's / Manufacturer's controls, as judged by the Architect, at Owner's expense at prevailing rates.
   b. TacTiles® carpet tile will not be adversely affected by defects in their materials or workmanship for a period of two (2) year from the date of invoice when used to install the appropriate Interface® carpet products.

Page	Paragraph	
01900-12	1.2	Add new sub-paragraphs OO and PP as follows:

OO. Insulated Translucent Fiberglass Sandwich Panel Wall System as specified in Section 08950.

1. General Warranty: Any warranties specified in this section shall not alter or change Owners rights and provisions received under other Bid Documents, and shall be in addition to those documents
2. Special Warranty: System manufacturer shall provide written agreement to repair or replace all defective panel and system craftsmanship for a period of **five (5) years**, starting at date of date of delivery. Failure of materials or workmanship shall include leakage, excessive deflection, deterioration of finish on metal in excess of normal weathering and defects in accessories, insulated translucent sandwich panels and other components. Installer shall provide **two (2) year** warranty against leakage starting from date of installation completion.

Continued.

PP. Wood Casework as specified in Section 11011.

1. Manufacturer shall warrant the casework to be free from defects in materials and workmanship, under normal use and service, for three (3) years from date of delivery.
   Within the warranty period, manufacturer shall repair, replace, or refund the purchase price of defective casework

PART 2 – SECTION 08950 – INSULATED TRANSLUCENT FIBERGLASS SANDWICH PANEL WALL SYSTEM

Add new Section 08950, attached to this Addendum.

PART 2 – SECTION 09685 – CARPET TILE

Delete Section 09685 in its entirety and substitute with the revised Specification Section 09685, attached to this Addendum.

PART 2 - SECTION 10900 – MISCELLANEOUS EQUIPMENT AND FURNISHINGS

Page	Paragraph	
10900-1	1.2.A	Delete sub-paragraph 2
	2.1	Delete sub-paragraph 2.1 in its entirety.

PART 2 – SECTION 11011 – WOOD CASEWORK

Add new Section 11011, attached to this Addendum.

PART 2 – SECTION 11135 – LCD INTERACTIVE LASER DISPLAY PROJECTOR

Delete Section 11135 in its entirety.

Continued.

PART 6 – SECTION 13852 – DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

Page	Paragraph	
13852-5	1.10	Delete sub-paragraph B in its entirety and substitute the following: B. Existing system shall be existing to remain. Provide expansion modules and panels as required to accommodate the new work. Delete sub-paragraph D in its entirety and substitute the following: D. Equipment Removal: After acceptance of new fire-alarm devices, remove existing disconnected fire-alarm devices and wiring.

END OF ADDENDUM NO. 1

ADDENDUM NO. 1

BID PROPOSAL FORM

SINGLE OVERALL CONTRACT

DPMC Classifications: C008 or C009 Prime Contractor
with C029, C030, C032, C047 & C066 Subcontractors

To: Princeton Public Schools
Board of Education
25 Valley Road, Princeton, NJ 08540

1. The undersigned, having familiarized themself with the local conditions affecting the cost of the work, the Drawings, the Specifications and other Bid Documents, as in the Advertisement for Bids thereto, for the **Addition & Renovations at Princeton Middle School (FVHD#5516B)**, 217 Walnut Lane, Princeton, NJ 08540, together with all work incidental thereto, in accordance with the requirements of the Drawings and Specifications prepared by Fraytak Veisz Hopkins Duthie, P.C., Architects/Planners, Trenton, New Jersey, hereby proposes to furnish all labor, materials and equipment required for all Work and as follows:

SINGLE OVERALL CONTRACT - BASE BID: All Work at the above referenced school, including applicable Allowances - Section 01020, in accordance with the requirements of Bid Documents, for the sum of:

TOTAL BASE BID INCLUDING ALLOWANCE: $__________________
(Numerical)

____
(To be written or typed in full)

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Submitted by:____________________________________
(Firm Name)

2. **Alternate Proposal(s) - Section 01030** shall be quoted as additions to, deductions from or No Change (NC) to the Base Bid and shall be in accordance with the Specifications for Alternate Bid Work. If written amount differs from the numerical figure, only the written amount will be accepted as the correct bid.

Alternate Bid No. MS-1: Quartz Tile Flooring in Lieu of LVT at Cafeterias ADD $__________________ (Numerical)

____ (To be written or typed in full)

Alternate Bid No. MS-2: Music Room Practice Rooms ADD $__________________ (Numerical)

____ (To be written or typed in full)

Alternate Bid No. MS-3: Courtyard Improvements ADD $__________________ (Numerical)

____ (To be written or typed in full)

Alternate Bid No. MS-4: I.T. Department Renovations ADD $__________________ (Numerical)

____ (To be written or typed in full)

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Submitted by:______________________________________ (Firm Name)

3. **UNIT PRICES - SECTION 01151: Materials in Place.**

Bulk rock excavation	$ **300.00**	per cu. yd.
Trench or pit rock excavation	$ **400.00**	per cu. yd.

UNIT PRICES - GENERAL CONSTRUCTION: Materials in Place.

Excavation (unsuitable soil)	$____________	per cu. yd.
Certified, clean compacted fill	$____________	per cu. yd.
Bituminous Paving (including subbase)	$____________	per sq. yd.
Concrete Curb	$____________	per lin. ft.
Concrete Walk (including subbase)	$____________	per sq. ft.
Cement Based Self Leveling Underlayment per Section 03452	$____________	per sq. ft.
Replacement of existing damaged or deteriorated metal decking	$____________	per sq. ft.
Replacement of existing wet or deteriorated roof insulation board	$____________	per sq. ft.
Replacement of existing damaged or deteriorated wood nailers/blocking or framing, including removal of existing deteriorated wood, furnishing and installing new galvanized anchor bolts, expansion bolts at 4'-0" o.c. or nails through existing construction to remain:	$ **2.90**	per board ft.
a. 2x4 for the above work	$____________	per lin. ft.
b. 2x6 for the above work	$____________	per lin. ft.
c. 2x8 for the above work	$____________	per lin. ft.
d. 2x10 for the above work	$____________	per lin. ft.
e. 2x12 for the above work	$____________	per lin. ft.

UNIT PRICES - PLUMBING, DRAINAGE & FIRE PROTECTION: Materials in Place.

Plumbing Item / Unit		
3″ cast iron pipe below grade	$____________	per lin. ft.
4″ cast iron pipe below grade	$____________	per lin. ft.
6″ cast iron pipe below grade	$____________	per lin. ft.
2" cast iron above grade	$____________	per lin. ft.
3" cast iron above grade	$____________	per lin. ft.
4" cast iron above grade	$____________	per lin. ft.
2-1/2″ Type 'L' copper tubing	$____________	per lin. ft.

Submitted by:____
(Firm Name)

3″ Type 'L' copper tubing	$____________	per lin. ft.
2" piping insulation	$____________	per lin. ft.
4" piping insulation	$____________	per lin. ft.
1" black steel schedule 40 pipe	$____________	per lin. ft.
1-1/2" black steel schedule 40 pipe	$____________	per lin. ft.
2" black steel schedule 40 pipe	$____________	per lin. ft.
1" Ball valve	$____________	per unit
1-1/2" Ball valve	$____________	per unit
2" Ball valve	$____________	per unit
3″ Ball valve	$____________	per unit
Thermostatic mixing valve MV-1	$____________	per unit
Floor drain FD-1	$____________	per unit

Fire Protection Item / Unit

Sprinkler head with associated 1″ branch piping (approx. 5′-0″ length)	$____________	per unit

UNIT PRICES - HEATING AND VENTILATING: Materials in Place.

7/8″ Type 'L' Copper with brazed joints (refrigerant piping)	$____________	per lin. ft.
1/2″ Type 'L' Copper with brazed joints (refrigerant piping)	$____________	per lin. ft.
7/8″ Piping insulation (refrigerant piping)	$____________	per lin. ft.
1/2″ Piping insulation (refrigerant piping)	$____________	per lin. ft.
3/4″ Type 'L' Copper with brazed joints or Sch 40 Steel pipe, Class 150 w/ Threaded Joints (ground source water piping)	$____________	per lin. ft.
3/4" Ground source piping insulation	$____________	per lin. ft.
1″ Type 'L' Copper with brazed joints or Sch 40 Steel pipe, Class 150 w/ Threaded Joints (ground source water piping)	$____________	per lin. ft.
1" Ground source piping insulation	$____________	per lin. ft.
1-1/2″ Type 'L' copper with brazed joints or Sch 40 Steel pipe, Class 150 w/ Threaded Joints (ground source water piping)	$____________	per lin. ft.
1-1/2" Ground source piping insulation	$____________	per lin. ft.
2″ Type 'L' Copper with brazed joints or Sch 40 Steel pipe, Class 150 w/ Threaded Joints (ground source water piping)	$____________	per lin. ft.
2" Ground source piping insulation	$____________	per lin. ft.

Submitted by:____
(Firm Name)

2-1/2″ Type ‘L’ Copper with brazed joints or Sch 40 Steel pipe, Class 150 w/ Threaded Joints (ground source water piping)	$____________	per lin. ft.
2-1/2" Ground source piping insulation	$____________	per lin. ft.
3″ Type ‘L’ Copper with brazed joints or Sch 40 Steel pipe, Class 150 w/ Threaded Joints (ground source water piping)	$____________	per lin. ft.
3" Ground source piping insulation	$____________	per lin. ft.
Condensate Pump	$____________	per unit
12" x 8" Volume Damper	$____________	per unit
24″ x 24″ Ceiling Diffuser	$____________	per unit
24″ x 24″ Ceiling Register	$____________	per unit
24″ x 12″ Ceiling Registers	$____________	per unit
24″ x 14″ Supply Grilles	$____________	per unit
46″ x 46″ Return Grilles	$____________	per unit
Unitary Controller	$____________	per unit
Thermostat	$____________	per unit
Ball Valve, under 1″	$____________	per unit
Ball Valve, 1″	$____________	per unit
Ball Valve, 1-1/2″	$____________	per unit
Ball Valve, 2″	$____________	per unit
Ball Valve, 2-1/2″	$____________	per unit
Ball Valve, 3″	$____________	per unit
Balancing Valve, 1″	$____________	per unit
Balancing Valve, 1 ½"	$____________	per unit
Balancing Valve, 2″	$____________	per unit
Balancing Valve, 2 ½″	$____________	per unit
Balancing Valve, 3″	$____________	per unit
Galvanized Steel Ductwork (Rectangular) 20" x 12"	$____________	per lb.
Single-Wall Round Ductwork 12" diameter	$____________	per lb.
Double-Wall Round Ductwork 12" diameter	$____________	per lb.
1-1/2" Mineral-Fiber Board Duct Insulation (Indoors)	$____________	per sq. ft.

Submitted by:____
(Firm Name)

2" Mineral-Fiber Blanket Duct wrap Insulation (Indoors)	$____________ per sq. ft.
2" Mineral-Fiber Board Duct Insulation (Outdoors)	$____________ per sq. ft.

UNIT PRICES - ELECTRICAL: Materials in Place.

20A-1 Pole branch circuit installation 600V, including MC cable and termination.	$____________ per lin. ft.
20A-1 Pole branch circuit installation 600V, including EMT conduit, THHN wire and termination	$____________ per lin. ft.
30A-3 Pole branch circuit installation 600V, including EMT conduit, THHN wire and termination	$____________ per lin. ft.
50A-3 Pole branch circuit installation 600V, including EMT conduit, THHN wire and termination	$____________ per lin. ft.
60A-3 Pole feeder installation 600V, including EMT conduit, THHN wire and termination	$____________ per lin. ft.
70A-3 Pole feeder installation 600V, including EMT conduit, THHN wire and termination	$____________ per lin. ft.
80A-3 Pole feeder installation 600V, including EMT conduit, THHN wire and termination	$____________ per lin. ft.
90A-3 Pole feeder installation 600V, including EMT conduit, THHN wire and termination	$____________ per lin. ft.
100A-3 Pole feeder installation 600V, including EMT conduit, THHN wire and termination	$____________ per lin. ft.
150A-3 Pole feeder installation 600V, including EMT conduit, THHN wire and termination	$____________ per lin. ft.
200A-3 Pole feeder installation 600V, including EMT conduit, THHN wire and termination	$____________ per lin. ft.
20A Tamper-resistant receptacle including back box, plate, conduit and wiring to the nearest device(20')	$____________ per unit
20A Tamper-resistant GFCI receptacle including back box, plate, conduit and wiring to the nearest device(20')	$____________ per unit
20A Single pole light switch including back box, plate, conduit and wiring to the nearest device(20')	$____________ per unit
20A Single pole three way light switch including back box, plate, conduit and wiring to the nearest device(20')	$____________ per unit
Fire Alarm smoke/heat detector including wiring, programming and testing	$____________ per unit
Fire Alarm duct smoke detector including wiring, programming and testing	$____________ per unit

Submitted by:____
(Firm Name)

Fire Alarm Horn/strobe including wiring, programming and testing	$____________ per unit
Fire Alarm monitor/control module including wiring, programming and testing	$____________ per unit
Fire Alarm door holder including wiring, programming and testing	$____________ per unit
Fire Alarm Pull station including wiring, programming and testing	$____________ per unit
Fire Alarm Device Wire mesh device guard	$____________ per unit
Junction Box and 3/4" Empty conduit with drag line and bushing at each end	$____________ per lin. ft.
Junction Box and 1" Empty conduit with drag line and bushing at each end	$____________ per lin. ft.
Junction Box and 2" Empty conduit with drag line and bushing at each end	$____________ per lin. ft.
(1) Ceiling mounted occupancy sensor as indicated on Contract Drawings	$____________ per unit
(1) Wall switch occupancy sensor as indicated on Contract Drawings	$____________ per unit
Combination Voice & Data communication outlet including backbox, wall plate, conduit and Cat6 cable to IDF room	$____________ per unit

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Submitted by:____
(Firm Name)

4. Bidder hereby acknowledges receipt of the following Addenda:
   No Addenda Issued ☐
   Addendum No.___, issued__________ received__________(initial)
   Addendum No.___, issued__________ received__________(initial)
   Addendum No.___, issued__________ received__________(initial)
   Addendum No.___, issued__________ received__________(initial)

5. In submitting this bid, it is understood that the right is reserved by the Owner to accept or to reject bids pursuant to N.J.S.A. 18A:18-22 and any bid that is non-responsive or submitted by a Bidder that is not responsible, and it is agreed that this bid may not be withdrawn for a period of sixty (60) days from the date set of the opening thereof.

6. Bid Security in the sum of______________________________ ($______________) in the form of ____________________ (Certified Check, Cashier's Check, or Bid Bond) is submitted herewith in accordance with the requirements of the Specifications.

7. The undersigned is an individual ( )
   a partnership ( )
   a corporation ( ) under the laws of the State of ____________________,

   having principal office in the ____________________ of ____________________, County of ____________________, and State of ____________________.

Respectfully Submitted,

____
(Company Name, if Bidder is a company)

BIDDER'S SIGNATURE

____
(Company Officer, if Bidder is a Corporation or LLC)

(Seal, if Corporation)

____
Printed or Typed Name Title of Officer (if the Bidder is a Company)

____
Address

____
City, State, Zip Code

____
Phone & Fax

____
Dated

____
Email Address

NOTE: SEE BIDDERS CHECKLIST

Submitted by:______________________________
(Firm Name)

William D. Hopkins III, AIA, LEED AP, NCARB
George R. Duthie, AIA, PP
Jason J. Dubowitch, AIA, NCARB
Stephen W. Schreyer Jr., AIA, NCARB, LEED AP BD+C

FVHD architects planners
EST 1913
Fraytak Veisz Hopkins Duthie, P.C.

PROJECT NAME: Additions and Renovations to ~~Community Park Elementary School~~ Princeton ms for Princeton Public Schools

DATE: Tues, 12/30/2025 at ~~10:30~~ 9:00 AM

FVHD PROJECT#: 5516~~C~~ B

PRE-BID SIGN-IN SHEET

REPRESENTATIVE NAME (Please Print)	COMPANY NAME & ADDRESS	CONTRACT NUMBER	TELEPHONE#	FAX#	E-MAIL
GINO BravO	Higley Const 25 Ind	908 377-4059			
Steve Vassalotti	Abacus Sports	~~[illegible]~~	717-917-3389		
Steve Bird	QPI Electrical		215-949-1592		
Anthony DIAFERLI	PPS		609 203-7231		
Robert Duckers	CeRC Inc		973 376 6116		
Peter Youssef	ML Inc	551-265-7358			peter@mlinc.biz
Nick Pelenskij	Brockwell Carrington	973-237 -1222			npelensky@Brockwell-carrington.com

William D. Hopkins III, AIA, LEED AP, NCARB
George R. Duthie, AIA, PP
Jason J. Dubowitch, AIA, NCARB
Stephen W. Schreyer Jr., AIA, NCARB, LEED AP BD+C

FVHD architects planners
EST 1910
Fraytak Veisz Hopkins Duthie, P.C.

Tim Stonne	New Road Construction Management	~~215 380 5130~~	215 380 5130		tstonne@newroadcm.com
Marcin Owczarski	Niram inc				ctk@niram.com
Ted Lindemann	Thermal Piping				estimating@thermalpiping.com
Umut Isler	Hall Building				estimating@hallbuilding.com

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SECTION 08950 - INSULATED TRANSLUCENT FIBERGLASS SANDWICH PANEL WALL SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes translucent fiberglass sandwich panel system for walls consisting of 2-3/4" thick flat factory prefabricated into single units,and including factory installation.

B. Related Work included in the following sections:

1. Section 04200 - Unit Masonry
2. Section 05400 - Miscellaneous Structural Steel
3. Section 05500 - Metal Fabrications
4. Section 07600 - Flashing, Sheetmetal and Roof Accessories
5. Section 07900 - Joint Sealer Assemblies

1.2 PERFORMANCE REQUIREMENTS

A. Deflection of entire system shall be no more than L/60, unless otherwise indicated.

B Structural Loads: Provide system capable of handling the following loads when supporting full dead load:

1. Positive Wind Load: 31 PSF
2. Negative Wind Load: 31 PSF

C. Air/Water Infiltration: For Water Penetration, the system shall be tested per procedures of ASTM E331, and shall show no water entry at WTP=10.00 psf, @ 5.00 gph/ft. squared.

1. Test shall be performed before and after uniform loads are applied. For Air Leakage, system shall be tested per procedures of ASTM E-283, and shall show results of no more than 0.01 cfm/ft. squared @ 1.56 psf (25 mph) and 0.01 cfm/ft. squared @ 6.24 psf (50 mph).

D. Standard panel system shall have less than 0.01 cfm/ft^2 air leakage by ASTM E 283 at 6.24 PSF (50 mph) and no water penetration by ASTM E 331 at 15 PSF; and structural testing by ASTM E 330.

1.3 SUBMITTALS

A. Product Data: Submit shop drawings and color samples of face sheets and finishes according to Division 1 - General Requirements.

B. Samples: Submit product sample showing thickness, face sheets, colors and insulation:

1. Sandwich panels: 14" x 28" unit(s).
2. Factory finished aluminum: 5" long section(s).

C. Test Reports: To be furnished by systems manufacturer in accordance with Division 1 for Submittals.

1. The manufacturer shall submit certified test reports by an independent testing organization for each type and class of panel system. Reports shall verify that the material will meet all performance requirements of this Specification. Previously completed test reports will be acceptable if by current manufacturer and indicative of products used on this project. Test reports required are:
   a. Flame Spread and Smoke Developed (ASTM E-84 by UL 723) - Submit ULCard.
   b. Burn Extent (ASTM D 635)
   c. Color Difference (ASTM D 2244)
   d. Impact Strength (UL 972)
   e. Bond Tensile Strength (ASTM C 297 after aging by ASTM D 1037)
   f. Bond Shear Strength (ASTM D-1002) after 5 different aging conditions
   g. Beam Bending Strength (ASTM E 72)
   h. Insulation "U" Factor (by NFRC 100; ASTM C-236; E-1423 and C-1199)
   i. NFRC System U-Factor Certification
   j. Solar Heat Gain Coefficient (NFRC or Calculations)
   k. Condensation Resistance Factor (AAMA 1503)
   l. Air Leakage (ASTM E 283)
   m. Structural Performance (ASTM E 330)
   n. Water Penetration (ASTM E 331)
   o. 1200°F Fire Resistance (SWRI)

D. Proof of regular, independent quality control monitoring under a nationally recognized building code review and listing program shall be submitted.

E. Complete energy and structural calculations and all above data must be submitted.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Erection shall be by an installer which has been in the business of erecting and installing specified materials for a recommended five (5) consecutive years, and can show evidence of satisfactory completion of projects of similar size, scope and type.

B. Shop drawings shall be prepared, signed and sealed by a registered Engineer in the State of New Jersey.

C. System manufacturer must be listed by a recognized building code authority, including the International Code Council (ICC), which requires quality control inspections, and fire, structural and water infiltration testing by an approved agency for sandwich panel systems.

D. Quality control inspections and required testing conducted at least once each year, shall include manufacturing facilities, sandwich panel components and production sandwich panels for conformance with AC177 "Translucent Fiberglass Reinforced Plastic (FRP) Faced Panel Wall, Roof and Skylight Systems" as issued by the ICC-ES.

E. Materials and products shall be manufactured by a company continuously and regularly employed in the manufacture of specified materials for a recommended period of ten (10) consecutive years and which can show evidence of these materials being satisfactorily used on a recommended six (6) projects of similar size, scope and type within such a period. Recommend at least three (3) projects shall have been in successful use for ten (10) years or longer.

F. Performance Requirement: The manufacturer shall be responsible for the configuration and fabrication of the complete panel system.

G. Panel system must be listed by an ANSI accredited Evaluation Service, which required quality control inspections and fire, structural and water infiltration testing of sandwich panel systems by an accredited agency.

1.5 PROJECT CONDITIONS

A. Field Measurements: Verify dimensions in system installation areas and indicate if dimensions on shop drawings are actual or guaranteed dimensions.

1.6 WARRANTY

A. General Warranty: Any warranties specified in this section shall not alter or change Owners rights and provisions received under other Bid Documents, and shall be in addition to those documents.

B. Special Warranty: System manufacturer shall provide written agreement to repair or replace all defective panel and system craftsmanship for a period of **five (5) years**, starting at date of date of delivery. Failure of materials or workmanship shall include leakage, excessive deflection, deterioration of finish on metal in excess of normal weathering and defects in accessories, insulated translucent sandwich panels and other components. Installer shall provide **two (2) year** warranty against leakage starting from date of installation completion.

1.7 PRODUCT HANDLING

A. Store panels on long edge, several inches above the ground, blocked and under cover to prevent damage. Follow manufacturer's storage and handling instructions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design: Provide products as manufactured by Kalwall Corp.; or approved equal.

B. Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include the following:

1. Major Industries, a Division of Kingspan Light & Air (KLA)
2. Muhler,
3. Or approved equal.

2.2 MATERIALS – TRANSLUCENT FACE SHEETS -- PANEL FABRICATION

A. Translucent fiberglass faces shall be manufactured from glass fiber reinforced thermoset resins by insulated system fabricator especially for architectural use. Thermoplastic (e.g. polycarbonate, acrylic) faces are not acceptable.

B. Flammability: The interior face sheet shall be UL listed and have a flamespread rating no greater than 50 and smoke developed no greater than 250 when tested in accordance with UL 723. Burn extent by ASTM D-635 shall be no greater than 1". Faces shall not deform, deflect, drip when subject to fire or flame, or become detached when subjected to 300°F for 25 minutes.

C. Weatherability: The full thickness of the exterior face shall not change color more than 3.0 CIE Units DELTA E by ASTM D-2244 after five (5) years outdoor South Florida weathering at 5 degrees facing South, determined by the average of at least three (3) white samples with and without a protective film or coating to ensure maximum, long-term color stability.

D. The exterior face shall have a permanent glass erosion barrier integrally embedded to provide maximum long-term resistance to fiber exposure. Sacrificial plastic surface films, coatings or veils not acceptable.

:

E. Appearance

1. Exterior face sheets shall be smooth, .070" thick and CRYSTAL in color.
2. Interior face sheet shall be .045" thick and CRYSTAL in color.
3. Faces shall not vary more than +/- 10% in thickness and be uniform in color.

F. Panel Construction:

1. Provide sandwich panels of flat fiberglass reinforced translucent face sheets laminated to a grid core of mechanically interlocking I-beams. The adhesive bonding line shall be straight, cover the entire width of the I-beam and have a neat, sharp edge.
   a. Thickness: 2-3/4"
   b. Light transmission: 15%
   c. Solar heat gain coefficient: 0.19
   d. Panel U-factor by NFRC certified laboratory: 2-3/4" thermally broken grid .14 U.
   e. Complete insulated panel system shall have NFRC certified U-factor of 0.23.
      1) Grid pattern: Nominal size 20" x 12" Shoji grid
      2) Pattern as indicated on the Drawings.

2. Standard panels shall deflect no more than 1.9" at 30 PSF in 10'-0" span without a supporting frame by ASTM E 72.

G. Thermal Insulation: Panels shall have a NFRC laboratory tested "U" factor of (.14) by NFRC 100 with system "U" value of .23. System shall be NFRC certified.

H. Light & Solar Transmission: Panels shall have a light transmission of 15% and shading coefficient of 0.19 per ASTM E-972.

I. Grid Cores:

1. Grid pattern shall be as indicated and symmetrical about the horizontal center line for each flat panel.

2. The thermally broken (aluminum) I-beam grid core shall be 6063-T6 or 6005-T5 alloy with provisions for mechanical interlocking of muntin-mullion and perimeter. Width of I-beam shall be no less than 7/16". The I-beam grid shall be machined to tolerances of not greater than +/- .002". Thermal break shall be 1" minimum.

3. Panels shall withstand 1200°F fire for minimum one (1) hour without collapse or exterior flaming.

4. Thermally broken panels shall give minimum CRF (Condensed Resistance Factor) of 80 by AAMA 1503 measured on the grid line.

J. Adhesive:

1. The laminate adhesive shall be heat and pressure resin-type engineered for structural sandwich panel use, with minimum 25 years field use. Adhesive shall pass testing requirements specified by the International Conference of Building Officials "Acceptance Criteria for Sandwich Panel Adhesives."

2. Minimum strength shall be 750 PSI tensile strength by ASTM C-297 after two (2) exposures to six (6) cycles each of the aging conditions prescribed by ASTMD-1037.

3. Minimum shear strength by ASTM D-1002 minimum after exposures to four (4) separate aging conditions:
    a. 50% Relative Humidity at 68°F: 540 PSI
    b. 182°F: 100 PSI
    c. Accelerated Aging by ASTM D 1037 at room temperature: 800 PSI
    d. Accelerated Aging by ASTM D 1037 at 182°F: 250 PSI

K. Impact Resistance: The exterior face sheet shall be uniform in strength, impenetrable by hand-held pencil and repel an impact equal to 70 ft. lbs. without fracture or tear when impacted by 3-1/4" diameter, 5 lb. free-falling ball per UL 972.

L. Translucent structural sandwich panel shall be a true sandwich panel of flat fiberglass sheets bonded to a grid core of mechanically interlocking I-beams and shall be laminated under a controlled process of heat and pressure, and deflect no more than 1.9" at 30 psf in 10' by ASTM E-72.

M. The adhesive bonding line shall be straight, cover the entire width of the I-beam, and have a neat, sharp edge. In order to insure bonding strength, white spots at intersections of mutins and mullions shall not exceed 4 for each 40 sq. ft. of panel, nor shall they be more than 3/36" in width.

N. Panels and aluminum perimeter frame shall be pre-assembled where practical and sealed at the factory. Panels should be shipped to the job site in rugged shipping units, ready for erection.

O. Perimeter closure system, battens and aluminum finishes:

1. Closure system shall be extruded 6063-T6 and 6063-T5 alloy aluminum and temper clamp-tite screw closure type. (Thermal break system for walls.)

2. Aluminum closures to be supplied with 300 series stainless steel screws (excluding final fasteners to building) and shall be factory sealed to the panels. Aluminum battens and cap plates shall be field installed.

3. All exposed aluminum to be architectural corrosion resistant finish which meets the performance requirements of AAMA 2604, color to be selected from manufacturer's standards.

4. Flexible sealing tape shall be manufacturer's standard pre-applied to serrated edges of closure system at factory under controlled conditions.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Do not install systems until conditions adversely affecting installation and performance have been corrected.

3.2 PREPARATION

A. Contractor shall prepare openings including isolating dissimilar materials from aluminum system which may cause damage by electrolysis, and shall provide temporary enclosures if required.

3.3 INSTALLATION

A. Erect translucent panel system in strict accordance with approved shop drawings, as supplied by manufacturer, including fastening and sealing. All surfaces shall be cleaned before sealants are applied.

B. Secure non-moveable joints and accommodate thermal and mechanical movements.

C. Accommodate thermal and mechanical movements.

D. Set perimeter framing in a full bed of sealant compound, or with joint fillers or gaskets to provide weather-tight construction.

E. If required, insure weep holes are correctly installed.

F. After Subcontractor(s) have completed Work on adjacent material, inspect translucent panel installation and make any adjustments necessary to ensure proper installation and weather-tight conditions.

G. All staging and lifts required for the complete panel system installation and field measuring shall be provided by and maintained by the Contractor.

3.4 CLEANING

A. Clean panel system, both sides, after installation according to manufacturer's recommendations.

END OF SECTION 08950

SECTION 09685 - CARPET TILE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

B. Related Sections:

1. Section 01455 - Concrete In-situ Relative Humidity and pH Testing.
2. Section 03300 - Concrete Work.
3. Section 03452 - Cement Based Self-Level Underlayment.
4. Section 09650 - Resilient Flooring, for rubber base.

1.2 SUMMARY

A. Extent, location and details of Collection and type of carpet tile is indicated on the drawings.

B. Work of this section includes furnishing and installation of carpet tile, adhesives and accessories.

1.3 DEFINITIONS

A. Commercial Carpet: Carpet intended for use in commercial and public spaces, with construction, fire ratings, static control and appearance appropriate for this use.

1.4 REFERENCES

A. American Association of Textile Chemists and Colorists (AATCC):

1. AATCC 16: Test Method of Colorfastness to Light.
2. ATTCC 134: Test Method for Electrostatic Propensity of Carpets.
3. AATCC 174: Antimicrobial Activity Assessment of Carpets.

B. American Society for Testing and Materials (ASTM):

1. ASTM E 648: Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.
2. ASTM E 662: Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
3. ASTM E 2471: Standard Test Method for Using Seeded-Agar for the Screening Assessment of Antimicrobial Activity In Carpets

1.5 PERFORMANCE REQUIREMENTS

A. Comply with the following general performance requirements:

1. Radiant Panel: ASTM E-648: Class 1
2. Smoke Density: ASTM E-662 ≤450
3. Static: AATCC - 134, <:3.0 KV
4. Lightfastness: AATCC 16 - E, ≥ 4.0 @ 60 @ AFU's
5. Indoor Air Quality: Green Label Plus #GLP0820

B. Comply with the following special performance requirements:

1. Carpet must be square, 4 hole cross-section.
2. Carpet must be 100% Recycled Content Nylon.
3. Carpet must have permanent anti-static fiber.
4. Carpet must have Soil Protection.
5. Carpet must be 100% Solution Dye.

C. Warranty Performance Requirements:

1. **Twenty (20) year** excessive surface wear (loss of more than 10% by weight of face fiber), edge ravel, backing separation, shrinking, stretching and static electricity Warranty from the date of invoice.

2. **Twenty (20) year** - Antimicrobial Preservative Protection Warranty.

3. **Special Project Warranty:**
   a. In addition, a written special project warranty, executed by the Contractor and the Installer, agreeing to repair or replace carpet which fails in material or workmanship within a period of **two (2) years**, which starts at the date of substantial completion, without any cost to the Owner, and agreeing to repair or replace other defects beyond Contractor's / Installer's / Manufacturer's controls, as judged by the Architect, at Owner's expense at prevailing rates.
   b. TacTiles® carpet tile will not be adversely affected by defects in their materials or workmanship for a period of **two (2) year** from the date of invoice when used to install the appropriate Interface® carpet products.

4. Refer to Section 01900 - Warrantees and Guarantees, which include but not limited to the following requirements:
   a. Excessive wear,
   b. Edge ravel,
   c. Backing separation,
   d. Shrinking,
   e. Stretching,
   f. Cupping,
   g. Doming,
   h. Static electricity,
   i. Antimicrobial effectiveness,
   j. Excessive color loss.

1.6 SUBMITTALS

A. Manufacturer's Data: Submit manufacturer's product literature and installation instructions for each type of carpeting material and installation accessory required. Include methods of installation for each type of substrate.

   1. Submit written data on physical characteristics, durability, resistance to fading and flame resistance characteristics and showing compliance with the contract requirements, including independent laboratory test reports.

   2. Include manufacturer's recommended specifications for primer, adhesive and installation instructions.

B. Fiber Requirements: Submit certification from the fiber producer verifying the following:

   1. Use of the specified fiber in the submitted carpet product.

   2. Must have federally registered Branded trademark.

C. Certificate of Compliance:

   1. Submit certified test reports that carpet meets all the performance requirements stated above in paragraph 1.4 (above) Performance requirements. Submit certified test reports that carpet meets all performance criteria.

D. Samples:

   1. Submit two carpet samples 6" x 8" of each type, color, and pattern of carpet materials required. Submit two samples, 6" in lengths of edge guard stripping.

   2. Any alternates to specified products must be submitted for approval by the Architect after project award.

   3. Final Sample Submittal:
      a. Submit two (2) sets of samples for each carpet type.
      b. No carpet shipments are permitted until acceptance of final samples is given by the Architect / Owner.
      c. Samples submitted are assumed to be the manufacturer's best obtainable match to the carpet described under Materials Section.

E. Shop Drawings:

   1. For carpeted areas submit shop drawings showing installation of carpeting, seam diagram, pattern direction, necessary installation accessories, and provisions for work of other trades. Show location of different patterns or styles of carpet. Also show locations of any threshold conditions.

   2. The Contractor will supply reproducible prints on request, to facilitate shop drawing preparation.

F. Maintenance Manual:

1. Within sixty (60) days of awarding the Contract, submit two (2) copies of carpet manufacturer's maintenance manual, including his recommendations for the care, cleaning and maintenance programs of each type of carpeting.

G. Recycling, Energy Conservation, and Reclamation Programs:

1. Submit manufacturer's written certifications that all indicated programs are established and in full effect at the time of bidding.

H. Testing of Substrate:

1. Submit test reports of testing the concrete or other floor substrate, indicating compliance with manufacturer's requirements for moisture and alkalinity percentage of contents. Tests shall be performed in accordance with requirements of Section 01455.

I. Warranties:

1. Submit Warranties as described in paragraph 1.5 (above).

J. Closeout Submittals:

1. Maintenance Data: Include maintenance procedures, recommended cleaning and stain removal materials, and recommended cleaning schedule. Include product data and Safety Data Sheets (SDS) for cleaning and stain-removal materials.

2. Installation Instructions: Include detailed installation procedures. Include modular installation procedures, adhesive types, trowel sizes, spread rates, open times, and Safety Data Sheets (SDS) for all modular adhesives.

3. Warranties and Performance Certifications:
   a. Submit written warranties for all products as well as Performance testing results on all items included in Warranty section and Performance section of this specification.

1.7 QUALITY ASSURANCE

A. Single Source Responsibility: Provide products from a single manufacturer.

B. Warranties must be manufacturer's standard and not job specific.

C. All styles must come from the same manufacturer.

D. Carpet must be 100% Recycled Content Nylon

E. Do not install carpet until areas have been fully enclosed and environmental conditions have reached the levels indicated during occupancy.

F. Maintain ambient temperature and humidity conditions during and after installation of carpet at levels indicated during occupancy.

G. Allow carpet to reach room temperature or minimum temperature recommended by manufacturer before beginning installation.

H. Protect adhesives from freezing. Follow manufacturer's recommendations for minimum temperatures to which adhesives are exposed.

I. IAQ Requirements, Green Label: All products must be CRI Green Label Plus Certified.

J. Carpet must be 100% recyclable.

1.8 QUALIFICATIONS

A. Manufacturer:

1. Company specializing in manufacturing Commercial Carpet with a recommended minimum five (5) years of documented experience and has been in continuous operation and using technology that has been in use for a recommended ten (10) years.

2. The manufacturer must agree to provide on-site supervision during the start up phase of installation without any additional cost to the Owner.
    a. The manufacturer shall provide the Architect / Construction Manager with written documentation of locations within the project that were supervised by the manufacturer.
    b. Manufacturer shall notify the Architect / Construction Manager and the General Construction Work Contractor if installation instructions are not completely followed.

3. The manufacturer must agree to provide a Reclamation Program. Written documentation, indicating that this program is in effect with proof that the mechanics of the program is available at the time of the bid.

B. Installer:

1. Company specializing in installing carpet with a recommended minimum five (5) years of documented experience approved by the manufacturer, and participation in manufacturer's installation programs including responsible carpet removal.
    a. The installation of the carpet must be guaranteed by the manufacturer of the carpet.
    b. Installation must be performed by an installer that is pre-approved in writing by the manufacturer of the carpet.
    c. The agreement between the manufacturer and the installer must specifically address all installation procedures and materials to be used with the specified warranties.

2. Installer shall follow all installation procedures recommended by the manufacturer and use only materials supplied by the manufacturer to assure obtaining required warranties offered by the manufacturer.

C. Indoor Air Quality Testing:

  1. Submit testing reports furnished by an independent testing laboratory with manufacturers' certification attesting that all carpet supplied for this project have been tested and passed the Indoor Air Quality Testing requirements established by the Carpet and Rug Institute (CRI), Green Label Program for VOC's, which do not exceed the established emission levels. Likewise, the adhesives to be used for installation of the carpet have been tested and determined to be in compliance with the CRI Indoor Air Quality Testing Program requirements.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to project site in original factory original wrappings, clearly labeled with identification of manufacturer, brand name, quality or grade, fire hazard classification, and lot number.

B. Store materials in original undamaged packages and containers, inside well-ventilated area protected from weather, moisture, soiling, extreme temperatures, humidity; laid flat, blocked off ground to prevent sagging and warping.

C. Comply with instructions and recommendations of manufacturer for special delivery, storage, and handling requirements.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Provide "On Line Collection" for Color Types 2 and 3 carpet tile, as manufactured by InterfaceFLOR; or approved equal.

  1. Type: Tufted Textured Loop.
  2. Face Yarn: 100% Recycled Content Nylon
  3. Color System: 100% Solution Dyed.
  4. Yarn Weight: 22.0 ounces per square yard.
  5. Pile Density: 6,146 ounces per cubic yard
  6. Backing Material: GlasBac™
  7. Pile Thickness: 0.12".
  8. Stitches: 9/in.
  9. Size: 9.845 in. x 39.38 in.
  10. Soil/Stain Protection: Protekt^{2}®.
  11. Preservative Protection: Intersept® antimicrobial
  12. Preservative Efficacy: (AATCC 174 Parts 2&3) 99% Reduction/No Mold 7 Days. (ASTM E-2471) Complete Inhibition.
  13. Smoke Density: ASTM E-662 ≤450
  14. Static Test: (AATCC - 134) <3.0 KV
  15. Flooring Radiant Panel: ASTM E-648 Passes.
  16. Indoor Air Quality: Green Label Plus #GLP0820.
  17. Environmental Specifications:
      a. Total Recycled Content 69.26%
      b. Recycled Content (Pre Consumer) 58.14%
      c. Recycled Content (Post Consumer) 11.12%

    d. Other Environmental Claims: Certified Carbon Neutral Floors™ Free of Added Heavy Metals, Formaldehyde, Flurinated Chemicals (PFAS), and Halogenated Flame Retardants.
    e. End of Life: Carpet to Carpet Recycling through ReEntry®
18. Lightfastness: (AATCC 16-E) ≥4.0 @ 60 AFU's
19. Static: (AATCC-134) <3.0 KV
21. Traffic Classification: Heavy.
20. Warranty: Manufacturer's standard - **Twenty (20) year** (Educational) from the date of invoice. .

Special Project Warranties: In addition, a written special project warranty, executed by the Contractor and the Installer, agreeing to repair or replace carpet which fails in material or workmanship within a period of **two (2) years**, which starts at the date of substantial completion, without any cost to the Owner, and agreeing to repair or replace other defects beyond Contractor's/ Installer's / Manufacturer's controls, as judged by the Architect, at Owner's expense at prevailing rates.

TacTiles® carpet tile will not be adversely affected by defects in their materials or workmanship for a period of **two (2) years** from the date of invoice when used to install the appropriate Interface® carpet products.

B. Provide "Night Lights Collection" for Color Type 1 carpet tile, as manufactured by InterfaceFLOR; or approved equal.

1. Type: Tufted Textured Loop.
2. Face Yarn: 100% Recycled Content Nylon
8. Color System: 100% Solution Dyed.
9. Yarn Weight: 19.0 ounces per square yard.
10. Pile Density: 7,355 ounces per cubic yard
11. Backing Material: GlasBac™
12. Pile Thickness: 0.09".
8. Stitches: 8.5/in.
9. Size: 9.845 in. x 39.38 in.
10. Soil/Stain Protection: Protekt^2®.
11. Preservative Protection: Intersept® antimicrobial
12. Preservative Efficacy: (AATCC 174 Parts 2&3) 99% Reduction/No Mold 7 Days. (ASTM E-2471) Complete Inhibition.
13. Smoke Density: ASTM E-662 ≤450
14. Static Test: (AATCC - 134) <3.0 KV
15. Flooring Radiant Panel: ASTM E-648 Passes.
16. Indoor Air Quality: Green Label Plus #GLP0820.
17. Environmental Specifications:
    a. Total Recycled Content 69.26%
    b. Recycled Content (Pre Consumer) 58.36%

    c. Recycled Content (Post Consumer) 10.31%
    d. Other Environmental Claims: Certified Carbon Neutral Floors™
    Free of Added Heavy Metals, Formaldehyde, Flurinated Chemicals (PFAS), and Halogenated Flame Retardants.
    e. End of Life: Carpet to Carpet Recycling through ReEntry®

18. Lightfastness: (AATCC 16-E) ≥4.0 @ 60 AFU's
19. Static: (AATCC-134) <3.0 KV
21. Traffic Classification: Severe.
20. Warranty: Manufacturer's standard - **Twenty (20) year** (Educational) from the date of invoice. .

Special Project Warranties: In addition, a written special project warranty, executed by the Contractor and the Installer, agreeing to repair or replace carpet which fails in material or workmanship within a period of **two (2) years**, which starts at the date of substantial completion, without any cost to the Owner, and agreeing to repair or replace other defects beyond Contractor's/ Installer's / Manufacturer's controls, as judged by the Architect, at Owner's expense at prevailing rates.

TacTiles® carpet tile will not be adversely affected by defects in their materials or workmanship for a period of **two (2) years** from the date of invoice when used to install the appropriate Interface® carpet products.

C. Patterns and Colors: As determined by Architect.

D. Comparable products of other manufacturers will be considered if it can be clearly shown that their products are tested, equal to or will exceed the construction quality requirements, intended performances and all other design attributes listed above and provided that deviations in dimensions and profiles are minor and do not materially detract from the design concept or intended performances as judged solely by the Architect.

1. Approved equal by The Mohawk Industries Group.
2. Approved equal by Bentley.
3. Approved equal by Bigelow.
4. Approved equal by Patcraft.
5. Approved equal by Prince Street.
6. Approved equal by Mannington.
7. Or approved equal.

2.2 ACCESSORIES

A. Floor Primer: Manufacturer's approved floor primer applied to all areas that will receive carpeting.

B. Carpet Edge Guard, Non-metallic: Extruded or molded heavy-duty vinyl or rubber carpet edge guard of size and profile indicated; minimum 2" wide anchorage flange; colors selected by Architect from standard colors.

C. Installation Adhesive: Water-resistant, non-staining as recommended by carpet manufacturer, which complies with flammability requirements for installed carpet.

D. Miscellaneous Materials: As recommended by manufacturers of carpet, cushions, and other carpeting products; selected by Installer to meet project circumstances and requirements.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine and test substrates for moisture content, high alkalinity, levelness and other conditions under which carpeting is to be installed. Notify contractor in writing of major conditions detrimental to proper completion of the work.

1. Do not proceed until unsatisfactory conditions have been corrected.

2. Commencement of work shall constitute acceptance of conditions. Any necessary remedial work required to correct any unsatisfactory conditions, found after the start of installation, will be provided at no cost to the Owner.

3. Coordinate with installation of floor leveling underlayment where indicated or required.

3.2 PREPARATION

A. Repair minor holes, cracks, depressions, and rough areas using material recommended by carpet or adhesive manufacturer.

B. Clear away debris and scrape up cementitious deposits from surfaces to receive carpeting; vacuum clean immediately before installation. Check concrete surfaces to ensure no dusting through installed carpet; apply sealer where required to prevent dusting.

3.3 GENERAL

A. Install work in strict conformance with manufacturer's printed recommendations and as shown on approved seaming layouts.

B. Substrates shall be free from dust, oils, grease or other foreign matter. Cracks, holes and unevenness shall be filled with latex base floor filler.

C. During winter conditions, building shall be preheated to 72°F for at least 24 hours prior to installation. During summer conditions, air conditioning shall be in operation or other provisions shall be made to obtain temperatures and humidity within limits recommended by the manufacturer.

1. Temperatures shall be kept constant night and day during installation.

2. Concrete shall have cured for at least sixty (60) days prior to installation.

3.4 CARPET TILE

A. Butt Fitting and Joints: Brush pile back and tip individual tiles into place to avoid catching pile in the joint.

1. Frequently check joints for proper alignment and firm abutment.

2. Avoid excessively tight joints which will cause tile to peak or buckle.

3. Check tightness and establishing gain factor.

4. Cut tile from the back and secure cuts or partial tiles with manufacturer's standard or approved releasable compatible adhesive or double sided tape.

5. Install all carpet tile with pile orientation in the proper direction, as recommended by the manufacturer for each carpet type, follow manufacturer's embossed arrows on the back of tiles as guide for the proper direction.
   a. If carpet product will be installed in parquet pattern only, arrows should point in the same direction every other tile and diagonally.

6. Center floor trench headers directly under a full tile row.

7. Install tile rows adjacent to walls as per manufacturer's recommended instructions.

8. In open perimeter designs, use a fixed reducer an carpet keeper strips to secure the tile area. Use types and sizes recommended by the tile carpet manufacturer.

9. Remove and replace damaged tiles, protect carpet tile until inspection for substantial completion of carpet tile work.

10. Install every tile with releasable adhesive in accordance with manufacturer's instructions and information for using of appropriate tools and methods of applications.

OR/

Install carpet tile using "GlasBac®/GlasBacRE TacTiles® Connectors", as manufactured by InterfaceFLOR; or approved equal. The clear 3" x 3" polyester squares replace adhesives when used to install modular carpet with GlasBac® and GlasBac RE backings; or approved equal, only.

3.5 CLEANING

A. Remove and dispose of debris and unusable scraps. Vacuum carpet using commercial machine with face-beater element. Remove spots and replace carpet where spots cannot be removed. Remove any protruding face yarn using sharp scissors.

3.6 CALL BACK

A. Prior to expiration of **two (2) year warranty**, perform all necessary corrections and adjustments.

3.7 ADDITIONAL MATERIAL

A. Deliver to Owner as directed not less than five percent (5%) additional carpet tile of each type, pattern and color used.

END OF SECTION 09685

SECTION 11011 - WOOD CASEWORK

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

A. Section Includes: Wood Casework and related equipment.

1. Pre-manufactured wood casework and equipment, covered by this Specification and accompanying Drawings, are manufactured or supplied by one manufacturer to avoid divided responsibility.

B. Work included in this section:

1. Furnish all items of equipment as listed in the Specifications, equipment schedule and/or as shown on the Drawings, including delivery to the building, unpacking, setting in place, leveling, and scribing to walls and floors, as required.

2. **Furnishing:** Equipment Subcontractor shall make cutouts, holes and openings in countertops so as to be ready for installation of fixtures by the Plumbing Work Subcontractor.
   a. The Casework and Equipment Subcontractor(s) shall turn over to the Plumbing Subcontractor in a package, all sinks, fixtures, faucets, tailpieces, strainers, gas cocks, etc., and nipples and locknuts, etc., for installation and final connection by the Plumbing Subcontractor.

3. **Furnishing:** Equipment Subcontractor shall make cutouts, holes and openings in countertops so as to be ready for installation of fixtures by the Electrical Work (Sub)Contractor.
   a. The Casework and Equipment Subcontractor(s) shall turn over to the Electrical Subcontractor in a package, all electrical devices, for installation and final connection by the Electrical Subcontractor.

4. The Casework and Equipment Subcontractor shall provide an itemized lists and a designated site location for the transfer of the above referenced materials to the Plumbing and Electrical Subcontractors. The list shall have a description of the items and quantity along with a sign-off line for the Plumbing and Electrical Subcontractor(s). **a.A copy of the signed list is to be submitted to the Architect/Owner prior to billing for this equipment.**

5. All debris, dirt and rubbish accumulated as a result of this installation shall be removed and the premises left clean and orderly.

6. All Contractors shall familiarize themselves with the job conditions and building measurements in order to coordinate the planning, design, connections, delivery and erection of the fixed casework and related equipment furnished under these Specifications with other related and associated work during the term of the Contract.

C. Work included under the work of other Trades:

1. The **connection** of sinks, tailpieces, traps, service lines, drain lines, and piping within the equipment and through, under or along the backs of working surfaces as required by the

Specifications and/or as shown on the Drawing shall be by the Plumbing and Drainage Work Subcontractor in accordance with Part-4 Specifications Sections.

2. The **connection** of electrical receptacles, shall be by the Electrical Work Subcontractor in accordance with Part-6 Specifications Sections.

3. The furnishing of any framing or reinforcements for walls, floors, or ceilings to support any equipment, General Construction Work Contractor in accordance with Part-2 Specifications Sections.

1.2 QUALITY ASSURANCE

A. Provide all casework (for integration with tops, sinks and service fixtures, as required) manufactured or furnished by the same company for single responsibility.

B. Basis of Design: **"Campbell Rhea - Classic Oak Series", as manufactured by Institutional Casework, Inc.**; or approved equal.

C. Products specified herein have been selected because of their quality of construction, configuration, design, function, available finishes, components, accessories, dimensions, shape and style.

1. Comparable products of the following manufacturers will be considered if it can be clearly shown that their products are equal to or will exceed the construction quality requirements and other design attributes listed above.
   a. Diversified Casework.
   b. Leonard Peterson - Vanguard Line, Lipped.
   c. TMI Systems Design Corp.
   d. Or approved equal.

2. The use of one manufacturer's catalog numbers, and the specific requirements set forth in Drawings and Specifications, are not intended to preclude the use of other manufacturer's products or procedures which may be equivalent, but are given for the purpose of establishing a standard of design and quality for materials, construction and workmanship.

3. Substitute products will be considered for substitution only when submitted to the Architect as per the requirements of AIA A232 and Section 00800.

4. Substituted product(s) shall be meet the following minimum requirements:
   a. All four corners of drawer boxes must be dove-tailed together, and the bottom of all drawer boxes must be let in to the sides, front and back, to be “fully captured.” Applied drawer bottoms will not be permitted.
   b. All drawer front shall be fabricated from solid red oak lumber.
   c. All cabinet doors shall be framed with solid oak rails on four sides. Tall case doors shall include a lightweight core to reduce stress on hinges. Doors constructed of plywood or particleboard, edge-banded with oak will not be permitted. Tall case doors shall be mounted with (4) hinges.
   d. All glass in doors shall be tempered safety glass. Float glass **will not** be permitted.
   e. All tall case doors shall be complete with three-point latching mechanism. Single-point latching will not be permitted.

5. The General Contractor will not award Subcontract to a wood laboratory casework supplier who is not on the approved list, unless the Architect has approved that supplier's samples, certificates, individual product Drawings, and proof of ability to perform.

1.3 SUBMITTALS

A. Submit two copies of manufacturer's data and installation instructions for each type of equipment.

B. Samples:

1. Submit samples of available laminated plastic patterns and colors for Architect's selection.

2. Submit one full size sample of finished base cabinet unit complete with hardware, doors and drawers, without finish top.

3. Submit one full size sample of finished wall mounted cabinet unit complete with hardware, doors and adjustable shelves.

4. Acceptable sample units will be used for comparison inspections at project. Unless otherwise directed, acceptable sample units may be incorporated in the work. Notify Architect of their exact locations. If not incorporated in the work, retain acceptable sample units in the building until completion and acceptance of the work.

5. Remove sample units from the premises when directed by the Architect.

C. Shop Drawings

1. Submit shop drawings showing plans, elevations, ends, cross-sections, service run spaces, locations and type of service fixtures with lines thereto. Show details and location of anchorages and fitting to floors, walls and base. Include layout of units with relation to surrounding walls, doors, windows, and other building components.

2. Coordinate shop drawings with other work involved.

D. **Test Reports - Certifications:**

1. Submit the following:
   a. Test reports certifying that the casework finish complies with chemical and other resistance requirements of the Specifications.
   b. Performance test reports from an independent testing lab on each specified top material.

1.4 PRODUCT HANDLING

A. Deliver casework only after wet operations in building are complete.

B. Store completed wood furniture in ventilated place, protected from the weather, with relative humidity therein of 50% or less at 70°F.

C. Protect sanded and finished surfaces from soiling and damage during handling and installation. Keep covered with polyethylene film or other protective coating.

1.5 JOB CONDITIONS

A. Advise Architect of requirements for maintaining heating, cooling and ventilation in installation areas as required to reach relative humidity necessary to maintain optimum moisture content.

B. Examination of Substrate and Conditions

1. Field measurements shall be taken to verify that the equipment will fit into the designated space. Entry ways, corridors and door openings shall be verified to ensure that the equipment be manufactured in a matter to permit it to be moved through properly into place.

2. Examine the substrate and the conditions under which the work under this section is to be performed, and notify the Architect, in writing, of unsatisfactory conditions. Do not proceed with work under this section until satisfactory conditions have been corrected in an acceptable manner.

1.6 WARRANTY

A. Manufacturer shall warrant the casework to be free from defects in materials and workmanship, under normal use and service, for **three (3) years** from date of delivery.

1. Within the warranty period, manufacturer shall repair, replace, or refund the purchase price of defective casework.

PART 2 - PRODUCTS

2.1 GENERAL

A. The best cabinet making practices for casework construction shall be followed. All cabinets shall be integral units, each completely enclosed without the use of common partitions unless otherwise specified.

2.2 MATERIALS

A. Lumber:

1. Oak lumber is red oak, grade FAS or better, air dried and kiln dried to a 6 percent moisture content, then tempered to 7-8 percent prior to fabrication. Red oak lumber exposed to view, is free of stains, splits, shakes, season checks and other similar defects.

2. Other hardwoods are grade FAS or better, air dried to a 6 percent moisture content, then tempered to 7-8 percent prior to fabrication. Other hardwoods are used in semi-exposed, or unexposed, areas and comply with NHLA grading for FAS or better lumber.

B. Plywood:

1. Oak plywood is red oak, grade A-2, plain sliced, book-matched, crossbanded, and has a solid core.
    a. 3/4 inch is a minimum of 7-ply.
    b. ½ inch is a minimum of 5-ply.
    c. 1/4 inch is a minimum of 3-ply.
    d. 3/32 inch is a minimum of 3-ply.

2. Other hardwood plywoods are sound grade, have a solid core and are suitable for semi-exposed or unexposed areas.
    a. 3/4 inch is a minimum of 7-ply.
    b. ½ inch is a minimum of 5-ply.
    c. 1/4 inch is a minimum of 3-ply.
    d. 3/32 inch is a minimum of 3-ply.

C. Hardboard:

1. Hardboard is service tempered and consists of steam-exploded wood fibers, highly compressed into a hard, dense, 1/4 inch thick, homogeneous sheet, using natural resins and other added binders.

2. Physical properties:
    a. Average modulus of rupture is 5,300 lbs./sq. inch
    b. Density is 50 to 60 lbs./cu. foot
    c. Tensile strength of 3,500 lbs./sq. inch.

D. Particleboard:

1. Particleboard is industrial grade.

2. Physical properties:
    a. Density, 46 to 50 lbs./cu. ft.
    b. Modulus of rupture, minimum, 2,200 psi
    c. Modulus of elasticity, minimum, 450,000 psi.

E. Glass:

1. Tempered safety glass: Heat treated glass, 1/4 inch thick with a minimum of 88 percent clarity.

F. Service Fixtures:

1. Water, gas, steam, or other services: Triple chrome plated, have heavy-duty construction and are specifically designed for laboratory use.
    a. **Water Faucets - Hot and Cold:** Faucets are cast from red brass, and have four-arm type handles with color coded indexes. Faucets have serrated hose nozzles. Faucets have patented REX unit ceramic disc cartridges, and replaceable seats. The stem is brass, with full Acme threads, and has a brass cap nut. Goosenecks are rigid. Fixture outlets are tapped 3/8 inch I.P.S. for aerators, vacuum breakers, hose connections, and or other accessories. Provide vacuum breakers.

        (1) **Provide lever handle type faucet control for barrier free applications in accordance with sink notes indicated on Drawings.**

    b. **Gas Cocks:** Ground key cocks, made from high grade, brass forgings, have integral ten serration, non-slip hose ends. Wing handle has color-coded index, one piece construction, precision ground, and lapped to fit cock chamber. Handle operates with a 1/4 turn, and is spring-loaded.
    c. **Vacuum Breakers:** Watts NLF-9, or comparable, vacuum breakers are brass with polished chrome plating, screw-in type with stainless steel working parts, and durable rubber diaphragm and disc. Vacuum breaker is for hot or cold faucet and has a primary valve with a soft disc that seats against mating part. The secondary check valve utilizes a soft disc to metal seating. Breaker is tapped 3/8 inch N.P.T.

2. Electrical Fixtures: Receptacles are 3-wire grounded, 20 A, 125V AC, with stainless steel cover plates and cadmium-plated steel boxes. Pedestal boxes are brushed, cast aluminum with conduit nipples and lock nuts.
    a. G.F.I. fixtures: 20 A, 125V AC, with a brown nylon face and a LED indicator light. Conform to UL Standard 943 Class A, have hospital grade high abuse receptacle construction, and certified corrosion resistance with cupro-nickel exposed metal parts. Provide terminal screw wiring connections and a trip time of 0.025 seconds.

3. Sinks and Sink Outlets:
    a. **Epoxy resin** sinks are non-glaring black, specially modified epoxy resins, molded in one solid piece for optimum physical and chemical resistance. Inside corners are coved and the bottom is dished to the outlet. Outlets are epoxy resin, specially compounded and cured for optimum physical and chemical resistance, and 1-1/2 inches in diameter, unless otherwise specified.

NOTE: Coordinate with Plumbing Drawings and Specifications.

G. Tops (See Equipment Schedule):

1. Rhearesin: Top is one inch thick, molded from a modified epoxy resin and has optimum physical and chemical resistance. The specially compounded and cured uniform mixture, throughout the thickness of the top, is not dependent on a surface coating for chemical, or stain, resistance. Exposed edges and corners are radiused, and a drip groove is provided on under surface, when specified. Curb is four inches high.
    a. Colors: Manufacturer's standard Black.

H. Hardware and Accessories:

1. Pulls: Shall be selected by the Architect from manufacturer's available standard and custom units at no additional cost to the Owner.

2. Handles:
    a. Latching handle LH-1 is die cast zinc alloy, 4-1/4 inches long, has a dull chrome plated finish. Handle operates with 1/4 turn. Double door cases have latching handles on the right door and dummy handles on the left door. The rods are 5/16 inch in diameter and move in nylon guides attached to the back of the door. The middle of the door is secured by a latch plate which engages the side of the case, or latches behind the left door on cases with double doors.

    b. Locking handle LK-1 is a latching handle with a lock mechanism incorporated into the handle head. On double door cases, the left door has a dummy handle, and the right door has the locking handle. Lock is laboratory grade with a 5-disc tumbler mechanism and a dull chrome plated face. Tumblers and keys are brass, while the plug and cylinder are die cast zinc alloy. Locks are keyed differently, master keyed and furnished with 2 keys per lock.

3. Locks:
    a. Lock SL-1 is a laboratory grade, cylinder cam lock, with a 5-disc tumbler mechanism, and a dull chrome plated face. Tumblers and keys are brass, while plug and cylinder are die cast zinc alloy. Lock operates with a 180 degree turn of the key. There are 500 key changes standard. Locks are keyed differently, master keyed and furnished with 2 keys per lock.
    b. Locks are to be furnished on all doors and drawers.

4. Hinges:
    a. Hinge CP-1 is heavy duty, institutional type, 5-knuckle hospital tipped, and made from .095 inch thick, chrome plated mild steel. Hinge is wrap around style, and 2-3/4 inches high. The wing for mounting to end panel has 4 holes, two of which are slotted for adjustability; wing for the door has 5 holes, two of which are slotted for adjustability.
    b. Elbow catch is a steel, spring loaded catch that releases with finger pressure. The catch and steel strike plate are mounted with screws. Strike plate screw holes are slotted for adjustability and pin hole is provided to help anchor its position.

5. Drawer Slides:
    a. Drawer slides DS-1 are electrostatically epoxy powder coated, cold rolled steel, heavy-duty, side mounted, and have a 150 lb. load capacity. They are equipped with heavy-duty, ball bearing nylon rollers for smooth effortless operation. Slides have automatic positive stop levers to prevent accidental drawer removal, but allow quick removal without tools.
    b. File drawer slides FD-1 are zinc plated, cold rolled steel, heavy-duty, side mounted, and have a 100 lb. load capacity. They are equipped with heavy-duty, ball bearing nylon rollers. Slides are full extension with a positive stop, and a lift out disconnect.

6. Shelf Clips:
    a. **Shelf support clips shall be "seismic" twin pin type for mounting on interior of cabinet work. Clips shall be corrosion resistant and shall retain shelves from accidental removal. Shelves in all cabinets are adjustable on 32mm centers.**
        1) Single pin support clips and surface mounted metal support strips and clips subject to corrosion are not acceptable.

7. Leg Shoes:
    a. Leg shoes are closed-bottom style, 2½ inches square, and molded of 1/8 inch black polyethylene.

8. Crossbars and Greenlaw Arms:
    a. Crossbars and Greenlaw Arms are 3/4 inch diameter, anodized aluminum rods, with ends rounded.

9. Upright Rods:
   a. Upright Rods are 3/4 inch diameter, anodized aluminum, 36 inches long with a rounded top and a tapered bottom, to fit rod sockets.

10. Clamps:
   a. Clamps are 1 inch square aluminum stock, with two, 3/4 inch diameter openings, at right angles to each other, bored through sides. Thumb screws are provided at each end of the clamp, tighten against the rods to hold positions.

11. Rod Sockets:
   a. Rod sockets are mushroom type, machined from a solid aluminum rod. Secured to the top by heavy aluminum lock nut and washer.

12. Burette Rods:
   a. Burette rods are ½ inch diameter, anodized aluminum and either 18 or 24 inches long. Rods are furnished with a tapered aluminum adapter to fit rod socket.

I. Safety Glasses / Goggle Monitor Cabinet:

1. A sturdy, reinforced steel cabinet with baked white enamel finish and vandal resistant locking double doors. Equipped with eight (8) universal shelves that hold five (5) #6788 gogles per shelf for a total of 40 goggles.

2. A built-in germicidal lamp sanitizes the goggles between wearings, and is fully shielded from the front to prevent accidental exposure. An automatic 5 minute timer controls the sanitizing period. A seven and a half foot long, three-wire grounded cord with plug is mounted on the right end of the cabinet.

2.3 FABRICATION

A. Factory assembly of casework in the largest components possible aids in the installation. Mortise and tenon construction with glued and screwed joints is used for maximum strength; and the use of precision jigs and clamps ensures square corners and plumb vertical surfaces.

B. Fabrication of laboratory casework and equipment is completed to dimensions in the final, approved copy of shop drawings.

C. Base Cabinets:

1. All base cabinets are rigidly constructed, integral units with the strongest most advanced joinery methods utilized of bored, doweled, dadoed, glued and screwed construction. Each base cabinet is completely enclosed without the use of common partitions, and has flush construction with overlapping doors and drawers, which provides a dust resistant interior. A base cabinet has a full horizontal top frame with bored, doweled and glued joints, intermediate front rails and a 3/4 inch plywood bottom; rear horizontal parting rails and separators are provided as required. Horizontal top frame, intermediate parting rails and the bottom are bored, doweled and glued. Separators where indicated, are let into routed intermediate rails. Backs are recessed and encapsulated into dadoed end panels and further secured with glue blocks on each side, except where they need to be removable for access to plumbing. Backs are screwed to the top frame and further secured with glue blocks on each side. An enclosed toe space, 2-1/4 inches by 4 inches, is furnished with the toe rail bored, doweled and glued to end panels.

D. Wall and Upper Cases:

1. All wall and upper cases are rigidly constructed, integral units with the strongest most advanced joinery methods utilized of bored, doweled, dadoed, glued and screwed construction. Each case is completely enclosed without the use of common partitions, and has flush construction with overlapping doors, which provides a dust resistant interior. Top panel is bored, doweled and glued into end panels. Bottom panel is bored, doweled and glued into end panels; and glued and screwed to the back. Backs are recessed and encapsulated into dadoed end panels, and further secured with glue blocks on each side. Exterior hanger rails, at the top of the back, are glued to the back and then screwed to the top panel and bored, doweled and glued into end panels. Exterior hanger rails, at the bottom of the back, are glued to the back and then screwed to the bottom panel and bored, doweled and glued into end panels. Adjustable shelves are supported on **"seismic" twin pin type** shelf clips, which fit into holes drilled 32 mm on centers, in the case end panels.

E. Tall Cases:

1. All tall cases are rigidly constructed, integral units with the strongest most advanced joinery methods utilized of bored, doweled, dadoed, glued and screwed construction. Each case is completely enclosed without the use of common partitions, and has flush construction with overlapping doors, which provides a dust resistant interior. Top panel is bored, doweled and glued into end panels. Bottom panel is bored, doweled and glued into end panels and glued and screwed to the back. An exterior back cross rail is provided at the top of each case, glued to the back, and then screwed to the top panel and bored, doweled and glued into the end panels. Additional back cross rails are provided, as required. Backs are recessed, let into dadoed end panels, and further secured with glue blocks at the sides. An enclosed toe space, 2-1/4 inches by 4 inches high, is furnished with toe rail securely bored, doweled and glued to end panels and bottom panel.

2. Rails:
   a. Interior: 2-1/4 inches by 3/4 inch, solid hardwood
   b. Exterior: 4-1/8 inches by 3/4 inch, solid oak

3. Top panel, bottom panel, dividers, fixed shelf and adjustable shelves:
   a. Cases with exposed interiors: All are 1 inch oak plywood
   b. Cases with unexposed interiors: All are 1 inch hardwood plywood.

4. Backs:
   a. Cases with exposed interiors and exposed exteriors: Back is 1/4 inch oak plywood.
   b. Cases with unexposed interiors and unexposed exteriors: Back is 1/4 inch service tempered hardboard.

5. End panels:
   a. Cases with exposed interiors: End panels are 3/4 inch oak plywood.
   b. Cases with exposed exteriors: end panels are 3/4 inch oak plywood.
   c. Cases with unexposed interiors and one exposed end panel and one unexposed end panel: Exposed end panel is 3/4 inch oak plywood; unexposed end panel is 3/4 inch hardwood plywood.
   d. Cases with unexposed interiors and unexposed exteriors: end panels are 3/4 inch hardwood plywood.

6. Exposed edges of end panels, dividers and shelves are edge-banded with 1/4 inch solid oak.

7. Exterior back cross rails: 3 inches by 3/4 inch hardwood plywood.

F. Drawers:

1. Components:
    a. Drawer front: 13/16 inch oak lumber.
    b. Drawer sides and back: ½ inch hardwood lumber.
    c. Drawer bottom: 1/4 inch service tempered hardboard.
    d. Construction: All four corners of the drawer are dovetailed and glued. Edges of the drawer front are machine radiused to form a lip and overlap the opening 1/4 inch on all sides. Drawer fronts are one piece of lumber, providing consistency in color and grain within each drawer front. The back perimeter of the drawer front is routed so drawer front is recessed into the opening and projects 13/32 of an inch. The top edge of drawer sides and back are radiused. The bottom is let into the box on four sides and securely glued underneath with a continuous bead of glue around the perimeter of the drawer bottom. In cabinets 24 inches or less in width, drawers have one, AL-1aluminum pull which is surface mounted with 2 screws, 4 inches on centers. In cabinets over 24 inches wide, drawers have two AL-1 aluminum pulls. Drawers are supported on DS-1 slides which are side mounted, heavy duty, electrostatically epoxy powder coated, cold rolled steel, and have a 150 lb. load capacity. Slides are equipped with heavy-duty, ball bearing nylon rollers for smooth effortless operation. DS-1 slides have automatic, positive stop levers to prevent drawer's accidental removal, but allow for quick removal without tools. File drawers are supported on side mounted FD-1 full extension steel slides. File drawers have an interior, screw mounted, metal bottom track and an adjustable metal file follower. Lock SL-1 is furnished when indicated.

G. Doors:

1. Hinged solid doors, 48 inches or less in height:
    a. Core ply: Solid oak rails on four edges framing a particleboard core.
    b. Hardwood plywood crossbands: Four; two laminated on each side of core ply.
    c. Red oak veneer: Face plys; one applied to each side.
    d. Construction: Hinged solid doors, 48 inches or less in height, are 13/16 inch thick and have solid oak rails on the four edges. Doors overlap the opening 1/4 inch on all sides and have machined radiused edges. Doors have one aluminum pull which is surface mounted with two screws. Doors have two, CP-1 chrome plated, heavy duty, institutional type, 5-knuckle hospital tipped hinges, each attached with 5 tempered steel screws into solid oak framing of door, and 4 Euro screws into the end panel. Doors are secured by zinc plated steel, friction roller catches, with positive action, spring cushioned, polyethylene roller, and a metal strike plate. Catch and steel strike plate are attached with screws. On lockable double door cabinets, the left door is secured with a steel, spring loaded, elbow catch that releases with finger pressure. The catch and the strike plate are attached with screws. Strike plate screw holes are slotted for adjustability and a pin hole is provided to help anchor plate's position. Lock SL-1 is furnished when indicated.

2. Hinged solid doors over 48 inches in height:
    a. Core ply: Solid oak rails on four edges framing a particleboard core.
    b. Hardwood plywood crossbands: Four; two laminated on each side of core ply.
    c. Red oak veneer: Face plys; one applied to each side.
    d. Construction: Hinged solid doors over 48 inches in height, are one inch thick and have solid oak rails on the four edges. Doors overlap opening 1/4 inch on all sides, and machined radiused edges. Single doors and right door of double doors have a LH-1 latching handle, which is 4-1/4 inches long, streamline design, with a dull chrome plated finish. Handle operates with 1/4 turn. Left door of double doors has a fixed handle, which is the same size and finish as a LH-1 latching handle. A three point latching system provides single doors and right door of double doors positive engagement at the top and bottom of the door with tapered aluminum rods which engage plastic strike plates and pull the door snug. The rods are 5/16 inch in diameter and move in nylon guides attached to the back of the door. The middle of the door is secured by a latch plate which engages the side of the case, or latches behind the left door on cases with double doors. Right door of double doors lap over the integral machined astragal on left door, securely holding door shut. Doors have three, CP-1 chrome plated, heavy duty, institutional type, 5-knuckle hospital tipped hinges; each attached with 5 tempered steel screws in to solid oak framing of the door, and 4 Euro screws into the end panel. Left door of double doors is additionally secured with two zinc plated steel, friction roller catches, with positive action, spring cushioned, polyethylene roller, and a metal strike plate. Catches and steel strike plates are attached with screws. Catch screw holes are slotted for adjustability, and the strike plate has two nips to help anchor its position. Locking handle LK-1 is furnished when indicated.

3. Hinged glazed doors, over 48 inches in height:
    a. Frame: 1-1/16 inch by 3 inches, solid oak.
    b. Center cross frame member: 1-1/16 inch by 3 inches, solid oak.
    c. Glass: 1/4 inch thick tempered glass.
    d. Construction: Hinged glazed doors, over 48 inches in height, are solid oak frames with a center cross frame member. All joints in the frame are bored, doweled and glued. The balance of the door is glass. Doors have slightly machine radiused, and overlap opening 1/4 inch on all sides. The back perimeter of the door is routed so the door is recessed into the opening and projects 13/32 of an inch. Single doors and right door of double doors have a LH-1 latching handle, which is 4-1/4 inches long, streamline design, with a dull chrome plated finish. Handle operates with 1/4 turn. Left door of double doors has a fixed handle, which is the same size and finish as a LH-1 latching handle. A three point latching system provides single doors and right door of double doors positive engagement at the top and bottom of the door with tapered aluminum rods which engage plastic strike plates and pull the door snug. The rods are 5/16 inch in diameter and move in nylon guides attached to the back of the door. The middle of the door is secured by a latch plate which engages the side of the case, or latches behind the left door on cases with double doors. Right door of double doors lap over the integral machined astragal on left door, securely holding door shut. Doors have three, CP-1 chrome plated, heavy duty, institutional type, 5-knuckle hospital tipped hinges; each attached with 5 tempered steel screws into solid oak framing of the door, and 4 Euro screws into the end panel. The left door of double doors is additionally secured with two zinc plated steel, friction roller catches, with positive action, spring cushioned, polyethylene roller, and a metal strike plate. Catches and steel strike plates are attached with

screws. Catch screw holes are slotted for adjustability. Locking handle LK-1 is furnished when indicated.

H. Casework Finishes:

1. Surfaces to be Finished: Exposed exterior and exposed interior surfaces of cabinets receive the full finishing process. The unexposed interior surfaces of cupboards, drawers, wall cases, upper cases, and tall cases receive a baked on protective coat of moisture and chemical resistant catalyzed sealer, and a top coat of clear, catalyzed conversion varnish. Other unexposed surfaces are processed through standard finishing steps, and receive a baked on protective coat of moisture and chemical resistant catalyzed sealer.

2. Finishing Process: Prior to assembly lumber for doors, drawers and cabinets, and plywood for cabinets, are machine sanded with 120 grit, 180 grit, and finally, 220 grit sand paper. Flat surfaces receive two additional machine sandings: one in an orbital crossbelt sander with 40 micron and 60 micron grit sanding belts; and, one through a rotary polisher with 150 grit sand paper. Door and drawer front edges are machine sanded to a very smooth surface through a profile edge sander utilizing a 100 grit and a 150 grit paper. After assembly, drawers, doors, and casework are thoroughly examined and fine-finished by hand to provide a consistently smooth surface. Prior to the first application in the finishing process, items are placed in the dust-off booth where compressed air is used to remove loose fibers and dust. Selected surfaces are stained with NGR stain to the desired color and allowed to dry. Next a protective coat of moisture and chemical resistant, catalyzed sealer is applied. After flash drying, items are oven baked at 130°F. Following a cool down period, surfaces that receive the final top coat are carefully hand sanded and wiped clean. A top coat of clear, catalyzed, conversion varnish is applied, allowed to dry, and then oven baked at 130°F. The final top coat provides chemical resistance, toughness, durability, and excellent color stability with a smooth finish and high-gloss lustre.

PART 3 - EXECUTION

3.1 PREPARATION

A. Condition casework and furniture to average prevailing humidity conditions in installation areas prior to installing.

3.2 INSTALLATION

A. Install plumb, level, true and straight with no distortions. Shim as required, using concealed shims. Where casework abuts other finished work, scribe and cut for accurate fit. Before making cutouts, drill pilot holes at corners. Install wall cabinets in accordance with details on Drawings.

B. Trim and Moldings: Install in single, unjointed lengths for openings and for runs less than maximum length of lumber available. For longer runs, use only one piece less than maximum length available in any straight run. Stagger joints in adjacent members.

C. Adjust casework and hardware so that doors and drawers operate smoothly without warp or bind. Lubricate operating hardware as recommended by manufacturer.

3.3 CLEANING AND PROTECTION

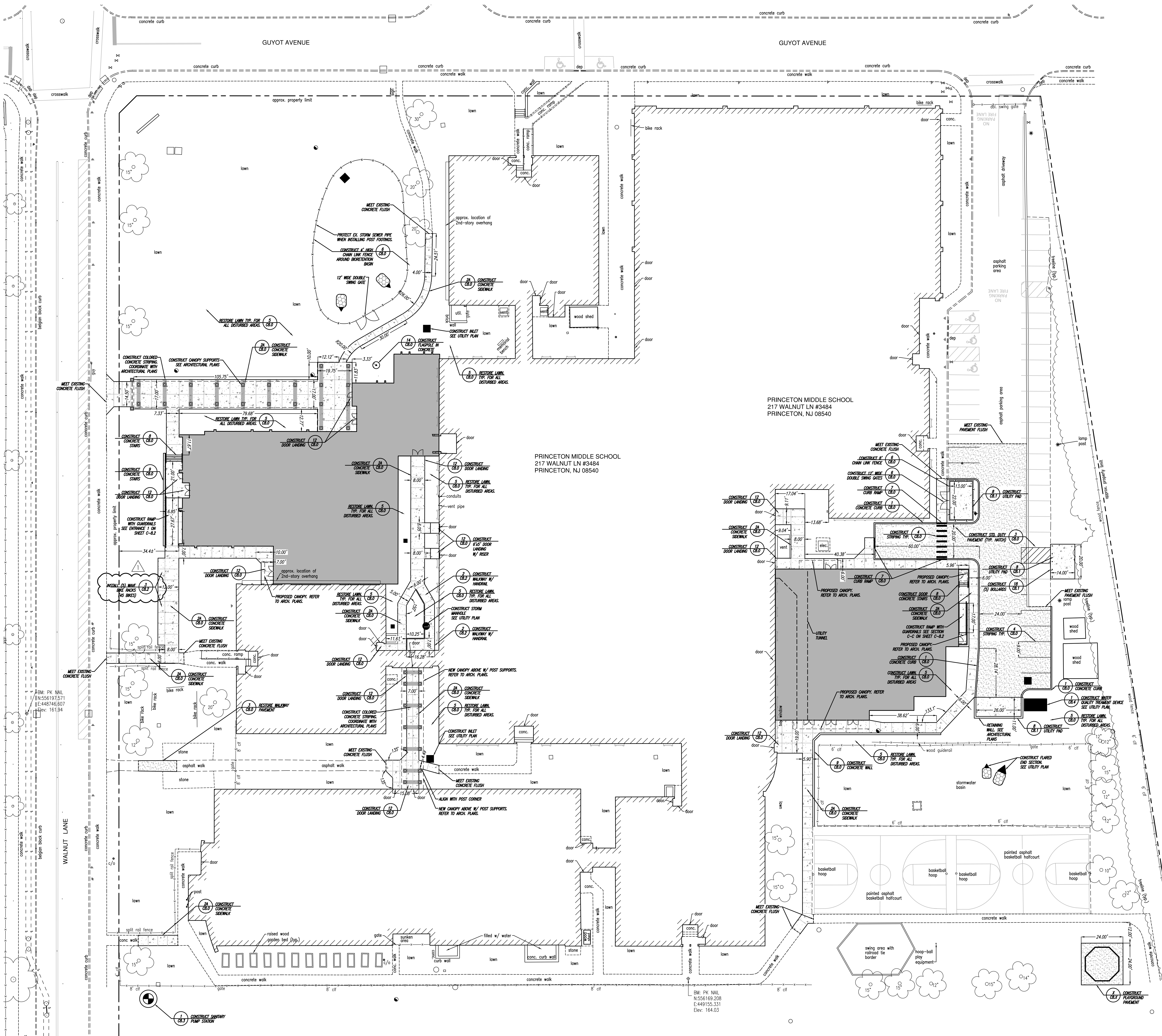
A. Repair or remove and replace defective work as directed upon completion of installation.

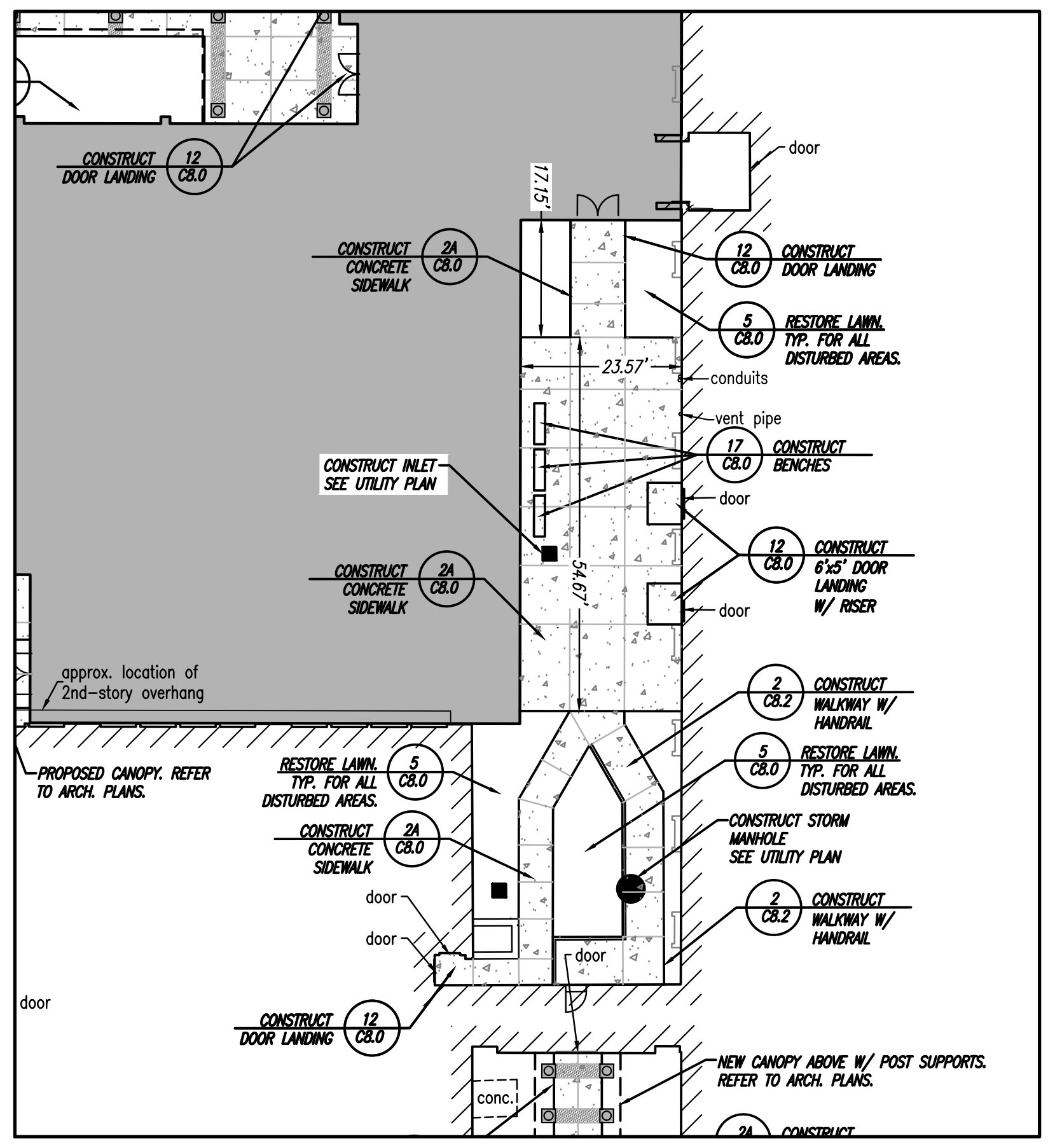
B. Protection: Perform all procedures and precautions for protection of materials and installed casework from damage by the work of other trades until acceptance of the work by the Owner. Advise HVAC Subcontractor of the required temperature/humidity conditions which must be maintained during the remainder of the construction period.

C. Cover casework with 4-mil polyethylene film for protection against soiling and deterioration during remainder of construction period.

D. Clean up cut out pieces, sawdust and debris, packing cases, etc. Leave areas in broom clean condition. Remove all debris as a result of work of the Contract.

END OF SECTION 11011


concrete curb
GUYOT AVENUE
crosswalk
approx. property limit
lawn
WALNUT LANE
belgian block curb
concrete walk
PRINCETON MIDDLE SCHOOL
217 WALNUT LN #3484
PRINCETON, NJ 08540
asphalt parking area
asphalt driveway
NO PARKING FIRE LANE
bike rack
wood shed
stormwater basin
painted asphalt basketball halfcourt
basketball hoop
swing area with railroad tie border
hoop-ball play equipment
raised wood garden bed (typ.)
sunken area
filled w/ water
8' clf
gate
BM: PK NAIL
N:556197.571
E:448746.607
Elev: 161.94
BM: PK NAIL
N:556169.208
E:449155.331
Elev: 164.03
CONSTRUCT SANITARY PUMP STATION
CONSTRUCT CONCRETE SIDEWALK
CONSTRUCT DOOR LANDING
RESTORE LAWN. TYP. FOR ALL DISTURBED AREAS.
MEET EXISTING CONCRETE FLUSH
PROPOSED CANOPY. REFER TO ARCH. PLANS.
NEW CANOPY ABOVE W/ POST SUPPORTS. REFER TO ARCH. PLANS.
CONSTRUCT INLET SEE UTILITY PLAN
CONSTRUCT STORM MANHOLE SEE UTILITY PLAN
CONSTRUCT FLAGPOLE IN CONCRETE
CONSTRUCT 4' HIGH CHAIN LINK FENCE AROUND BIORETENTION BASIN
PROTECT EX. STORM SEWER PIPE WHEN INSTALLING POST FOOTINGS.
12' WIDE DOUBLE SWING GATE
INSTALL (3) WAVE BIKE RACKS (45 BIKES)
CONSTRUCT RAMP WITH GUARDRAILS SEE ENTRANCE 1 ON SHEET C-8.2
CONSTRUCT COLORED CONCRETE STRIPING COORDINATE WITH ARCHITECTURAL PLANS
CONSTRUCT CANOPY SUPPORTS SEE ARCHITECTURAL PLANS
RESTORE WALKWAY PAVEMENT
CONSTRUCT STD. DUTY PAVEMENT (TYP. HATCH)
CONSTRUCT STRIPING TYP.
CONSTRUCT UTILITY PAD
CONSTRUCT (5) BOLLARDS
CONSTRUCT WATER QUALITY TREATMENT DEVICE SEE UTILITY PLAN
CONSTRUCT FLARED END SECTION SEE UTILITY PLAN
RETAINING WALL SEE ARCHITECTURAL PLANS
CONSTRUCT PLAYGROUND PAVEMENT
UTILITY TUNNEL
approx. location of 2nd-story overhang
ALIGN WITH POST CORNER
wood guiderail
lamp post


CONSTRUCT DOOR LANDING
CONSTRUCT CONCRETE SIDEWALK
RESTORE LAWN. TYP. FOR ALL DISTURBED AREAS.
CONSTRUCT INLET SEE UTILITY PLAN
CONSTRUCT BENCHES
CONSTRUCT 8'x5' DOOR LANDING W/ RISER
CONSTRUCT WALKWAY W/ HANDRAIL
CONSTRUCT STORM MANHOLE SEE UTILITY PLAN
PROPOSED CANOPY. REFER TO ARCH. PLANS.
NEW CANOPY ABOVE W/ POST SUPPORTS. REFER TO ARCH. PLANS.
approx. location of 2nd-story overhang
conduits
vent pipe
door

ALTERNATE BID NO. MS-3: COURTYARD IMPROVEMENTS

LEGEND OF SYMBOLS

EXISTING	PROPOSED	ITEM
lowercase text	*UPPERCASE TEXT*	TEXT & NOTES
○	● / ◑	MANHOLE– NEW/RECONSTRUCT
□	■ / ◪	INLET– NEW/RECONSTRUCT
◎ c.o.	◉	CLEANOUT
○ rl rlug	○	ROOF LEADER
gv ⋈ wv	*GV* ⧓ *WV*	VALVE–TYPE
		FIRE HYDRANT/FDC
		UTIL. POLE/W–LIGHT/W–TRANSF.
		STREET/TRAFFIC SIGNS:
		FREESTANDING LIGHT
	☒	NEW ELEC. HAND HOLE
——x——	——**X**——	FENCE
+70.25	*x70.25*	SPOT ELEVATIONS
～68～	*68*	CONTOUR LINE
– – – g – – –	——G——	GAS LINE
– – – w – – –	——W——	WATER LINE
– – – e – – –	━━ ━ ━━	ELEC. SERVICE/CONDUIT
– – – – – – –	———————	PAVEMENT EDGE
	▨	FULL DEPTH DEMOLITION
	▒	STANDARD DUTY HOT MIX ASPHALT PAVEMENT
	▩	HEAVY DUTY HOT MIX ASPHALT PAVEMENT
═══════	═══━━━	CURB/DEPRESSED CURB (DC)
⬚	▦	PORTLAND CEMENT CONCRETE
		TREE/WOOD LINE
– – – st – – –		STORM SEWER >=12" DIA.
– – – st – – –	━━ ━━	STORM SEWER <12" DIA
– – – sa – – –	——SA——	SANITARY SEWER
—— // ——		OVERHEAD POWER LINE

ABBREVIATIONS

ADA	AMERICAN DISABILITIES ACT	LF	LINEAR FEET
APPROX	APPROXIMATE	LP	LOW POINT
BF	BARRIER FREE	MH	MANHOLE
BC	BOTTOM OF CURB REVEAL	NEC	NATIONAL ELECTRICAL CODE
BDC	BOTTOM OF DEPRESSED CURB	NIC	NOT IN CONTRACT
BIT	BITUMINOUS	O/H	OVERHEAD
BM	BENCHMARK	PC	POINT OF CURVE
BR	BOTTOM OF RAMP	PCC	POINT OF COMPOUND CURVE
BS	BOTTOM OF STEP	PEP	POLYETHYLENE PIPE (HDPE)
BW	BOTTOM WALL (GRADE)	PROP	PROPOSED
COMM	DATA/COMMUNICATION CABLE	PT	POINT OF TANGENT
CONFIG.	CONFIGURATION	PVC	POLYVINYL CHLORIDE PIPE
CLF	CHAIN LINK FENCE	RCP	REINFORCED CONC. PIPE
C.O.	CLEAN OUT	RL	ROOF LEADER
CONC	CONCRETE	RLUG	ROOF LEADER UNDERGROUND
DC	DEPRESSED CURB (FLUSH TO PAVEMENT)	SCD	SOIL CONSERVATION DISTRICT
DEP	DEPRESSED CURB	ST	STORM SEWER PIPE
DEMO	DEMOLITION	SS/SAN	SANITARY SEWER PIPE
DIP	DUCTILE IRON PIPE	TEL	TELEPHONE
E	ELECTRIC	TB	TOP OF BORDER
ELEV	ELEVATION (FT.)	TBR	TO BE REMOVED
EX	EXISTING	TC	TOP OF CURB
FDC	FIRE DEPT. CONN.	TCW	TOP OF CURB WALL+
FO	FIBER OPTIC CABLE	TDC	TOP OF DEPRESSED CURB
FTG.	FOOTING	TP	TEST PIT
FFE	FINISHED FLOOR ELEVATION	TR	TOP OF RAMP
G	GAS PIPE LINE	TRANSF	TRANSFORMER
GRT	GRATE (ELEVATION)	TS	TOP OF STEP
GV	GAS VALVE	TW	TOP OF WALL
HC	HANDICAPPED	TYP	TYPICAL
HP	HIGH POINT	U/G	UNDERGROUND
HYD	FIRE HYDRANT	UP	UTILITY POLE
INV	INVERT (ELEV.)	V.I.F.	VERIFY IN FIELD
		W	WATER
		WV	WATER VALVE

GENERAL CONSTRUCTION NOTES:

1. ALL CONSTRUCTION SHALL BE FINISHED TO INDUSTRY STANDARDS AND COMPLETED IN A PROFESSIONAL "WORKMANLIKE" MANNER. ALL PERMANENT SURFACES SHALL BE FINISHED UNIFORMLY AND SURFACES SHALL NOT HAVE ANY NOTICEABLE DEFECTS, PATCHES, VOIDS, CRACKS, STAINS OR UNDULATIONS.
2. THE PLANS SHALL BE ON–SITE DURING ALL TIMES OF CONSTRUCTION.
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BEFORE ANY LAND DISTURBANCE OCCURS AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
4. AREAS ADJACENT TO CONSTRUCTION MUST BE RESTORED TO ORIGINAL ("LIKE NEW") CONDITION, IF DISTURBED, AT NO ADDITIONAL COST. MINIMUM RESTORATION IN GRADED AREAS SHALL BE 5" OF TOPSOIL, FERTILIZER, AND SEEDING PER SOIL EROSION AND SEDIMENT CONTROL PLAN. IN ADDITION, AREAS ADJACENT TO CONSTRUCTION SHALL BE GRADED TO INSURE THE PROPER CONVEYANCE OF OVERLAND STORM WATER RUNOFF AWAY FROM THE SITE IMPROVEMENTS.
5. WHERE SIDEWALK IS BEING REMOVED AND REPLACED TO ACCOMMODATE GRADE CHANGES, OR UNDERGROUND UTILITY WORK, OR OTHER CONSTRUCTION WORK, REMOVE AT NEAREST CONTROL JOINT. IF A CONTROL JOINT IS NOT PRESENT WITHIN 5 FEET OF THE LIMITS SHOWN GRAPHICALLY ON THE PLAN, THE CONTRACTOR SHALL SAW–CUT THE CURB, CONCRETE SIDEWALK, OR CONCRETE SLAB, AT THE LIMIT SHOWN. INSTALL EXPANSION JOINT MATERIAL AT SAW–CUT LINE. ALIGN ALL EDGES TO MEET FLUSH.
6. THE LIMITS OF GRADING, CONSTRUCTION, SAW–CUTTING, PAVEMENT AND SIDEWALK RESTORATION, ARE APPROXIMATE. IF NECESSARY, INCREASE THE DEMOLITION AND RECONSTRUCTION LIMITS BY UP TO 5 FEET IN ANY HORIZONTAL DIRECTION, AND UP TO 2 FEET IN ANY VERTICAL DIRECTION, IN ORDER TO MAINTAIN STRUCTURAL STABILITY OF THE SITE WORK AND TO AVOID CONFLICTS WITH EXISTING SITE FEATURES AND UTILITIES. NO SEPARATE PAYMENT WILL BE MADE FOR INCREASING THE CONSTRUCTION OR DEMOLITION LIMITS AS NOTED HEREIN.
7. CONSTRUCT TEMPORARY WALKWAYS AND DRIVEWAY PAVEMENT AS REQUIRED TO MAINTAIN PEDESTRIAN AND EMERGENCY ACCESS TO THE SCHOOL BUILDING.
8. THE PLANS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS PROVIDED TO THE CONTRACTOR. READ THE SPECIFICATIONS.
9. **A DETAILED "AS–BUILT" SURVEY MUST BE FURNISHED TO THE ENGINEER VIA ARCHITECT AT LEAST 5 DAYS BEFORE SCHEDULING A SUBSTANTIAL COMPLETION INSPECTION. THE SURVEY MUST CONTAIN SUFFICIENT SPOT ELEVATIONS AND SLOPES TO DOCUMENT THAT THE HORIZONTAL AND VERTICAL POSITION OF ALL SITE IMPROVEMENTS MEETS THE DESIGN INTENT AND APPLICABLE CODES.**
10. ALL OBSTRUCTIONS WHICH CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED, ADJUSTED, OR RELOCATED IN FAVOR OF THE NEW SITE IMPROVEMENTS AT NO EXTRA COST TO THE OWNER. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO UNDERGROUND OBSTRUCTIONS, EXISTING CONSTRUCTION, FOLIAGE, FENCES, WALLS, GUIDE RAILS, TREE ROOTS, AND OTHER MISCELLANEOUS DEBRIS ENCOUNTERED WITHIN THE SCOPE OF WORK.
11. THE CONTRACTOR SHALL SECURE ALL REQUIRED CONSTRUCTION PERMITS AND SCHEDULE INSPECTIONS AT THE TIMES REQUIRED BY THE LOCAL BUILDING DEPARTMENT.
12. ALL TRENCHES SHALL BE IN COMPLIANCE WITH OSHA REQUIREMENTS, PER 029 CFR 1926.
13. CONTRACTOR SHALL PROVIDE DE–WATERING IN ALL EXCAVATIONS AS NEEDED TO PROTECT SOILS AT NO ADDITIONAL COST TO THE OWNER.
14. **REFER TO SPECIFICATIONS FOR INSPECTION AND TESTING REQUIREMENTS FOR ALL SITE WORK. THE CONTRACTOR MUST ENGAGE A CERTIFIED MATERIALS TESTING AND INSPECTION COMPANY TO DOCUMENT THE THICKNESS, COMPOSITION, AND STRENGTH OF ALL MATERIALS USED IN THE PROJECT.**
15. OBTAIN ROAD OPENING PERMITS FROM THE MUNICIPALITY FOR ANY WORK WITHIN PUBLIC RIGHTS–OF–WAY. POST REQUIRE INSURANCE CERTIFICATES AND INSPECTION FEES.

FIELD ENGINEERING NOTES:

1. ALL AVAILABLE SURVEY CONTROL INFORMATION IS SHOWN ON THE DRAWINGS. ELEVATION BENCHMARKS AND CONTROL LAYOUT DIMENSIONS HAVE BEEN PROVIDED ON THE PLANS AT KEY LOCATIONS. THE ENGINEER WILL NOT RELEASE THE PLAN SET IN AUTOCAD DRAWING FORMAT. A SEPARATE CAD FILE CONTAINING THE DESIGN INFORMATION SHOWN ON THE PLANS MAY BE PROVIDED TO THE CONTRACTOR UPON THE COMPLETION OF A "USE & INDEMNIFICATION" AGREEMENT. IT SHOULD BE UNDERSTOOD BY THE CONTRACTOR AND/OR HIS SURVEYOR THAT THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED IN THE ELECTRONIC FORMAT IS NEITHER GUARANTEED NOR IMPLIED.
2. CONSTRUCTION SURVEY STAKE–OUT AND LAYOUT WORK SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR. ALL PROPOSED CONSTRUCTION SHALL HAVE A SURVEY STAKE OUT.
3. IF THE CONTRACTOR BELIEVES THAT A MAJOR DISCREPANCY EXISTS BETWEEN THE INFORMATION SHOWN ON THESE PLANS AND ACTUAL FIELD CONDITIONS, THEN THE CONTRACTOR'S LICENSED LAND SURVEYOR SHALL PERFORM WORK NECESSARY TO CLEARLY DOCUMENT THE DISCREPANCY IN MAP FORM FOR PRESENTATION TO THE ENGINEER FOR REVIEW AND ACTION.
4. THE CONTRACTOR MUST ENGAGE A LICENSED GEOTECHNICAL (SOILS) ENGINEER TO OVERSEE AND CERTIFY ALL EARTHWORK AND SOIL COMPACTION FOR SITE WORK IN THE PROJECT. SOIL COMPACTION TEST REPORTS MUST BE SUBMITTED TO THE OWNER (VIA ARCHITECT) FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTING SURFACE IMPROVEMENTS. THE OWNER WILL NOT ACCEPT ANY WORK THAT IS CONSTRUCTED ATOP SOILS THAT HAVE NOT BEEN TESTED (AND APPROVED) FOR COMPACTION. LEAVE SUFFICIENT TIME IN THE CONSTRUCTION SCHEDULE FOR SOIL COMPACTION, SOIL TESTING, AND THE ARCHITECT'S REVIEW OF THE TEST RESULTS.
5. THE CONTRACTOR MUST ENGAGE A CERTIFIED MATERIALS TESTING AND INSPECTION COMPANY TO VERIFY THE COMPOSITION, THICKNESS, SIZE, AND STRENGTH OF ALL MATERIALS USED IN THE PROJECT, IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, RECOGNIZED INDUSTRY STANDARDS, AND AS FURTHER STIPULATED IN THE PROJECT SPECIFICATIONS.
6. **A FINAL, SIGNED AND SEALED, AS–BUILT SURVEY MUST BE SUBMITTED AS EXPLAINED IN THE PROJECT SPECIFICATIONS. THE SURVEY MUST BE SUFFICIENTLY DETAILED SO AS TO CLEARLY DOCUMENT THE LOCATION, ALIGNMENT AND DEPTH OF CONSTRUCTED IMPROVEMENTS AND TO CONFIRM THAT THE SITE GRADING OF ALL IMPROVEMENTS HAS BEEN COMPLETED IN ACCORDANCE WITH THE DESIGN INTENT. ALL BARRIER–FREE PARKING AREAS AND PEDESTRIAN ROUTES SHALL BE SURVEYED IN GREAT DETAIL TO VERIFY THAT ALL SLOPES AND ELEVATIONS MEET CURRENT CODES.**
7. SUBMITTALS SHALL BE PROVIDED TO THE ENGINEER AT THE BEGINNING OF THE PROJECT, DURING THE DEMOLITION STAGE OR EARLIER. SUBMITTALS FOR "LONG LEAD" PRODUCTS AND MATERIALS SHALL BE SUBMITTED FIRST. SUBMITTALS MUST NOT PROPOSE DEVIATIONS FROM THE DESIGN INTENT DEPICTED ON THE PLANS, UNLESS SAID DEVIATION HAS ALREADY BEEN APPROVED BY THE ENGINEER VIA THE REQUEST FOR INFORMATION (RFI) PROCESS. THE RFI PROCESS MUST BE DOCUMENTED IN WRITING FROM THE OWNER'S ARCHITECT AND/OR ENGINEER.

NOTE:
THE HORIZONTAL DATUM IS BASED UPON THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83. THE VERTICAL DATUM IS BASED UPON NAVD88. BOTH DATUMS WERE ESTABLISHED BY TAKING STATIC GPS OBSERVATIONS ON KNOWN SURVEY CONTROL POINTS AND THEN SUBMITTING THE DATA TO OPUS RS FOR POST–PROCESSING

0 20 40 60
SCALE: 1"=20'

Civil Engineering Consultant: EEG 1631D

EDWARDS
ENGINEERING
GROUP
AN L2A COMPANY

Beth E Kenderdine 12.15.25
BETH E. KENDERDINE, P.E. Date
Professional Engineer NJ. Lic. No. GE45532

NJDCA Electronic Release Stamp

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Architect 10/10/25 Date

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

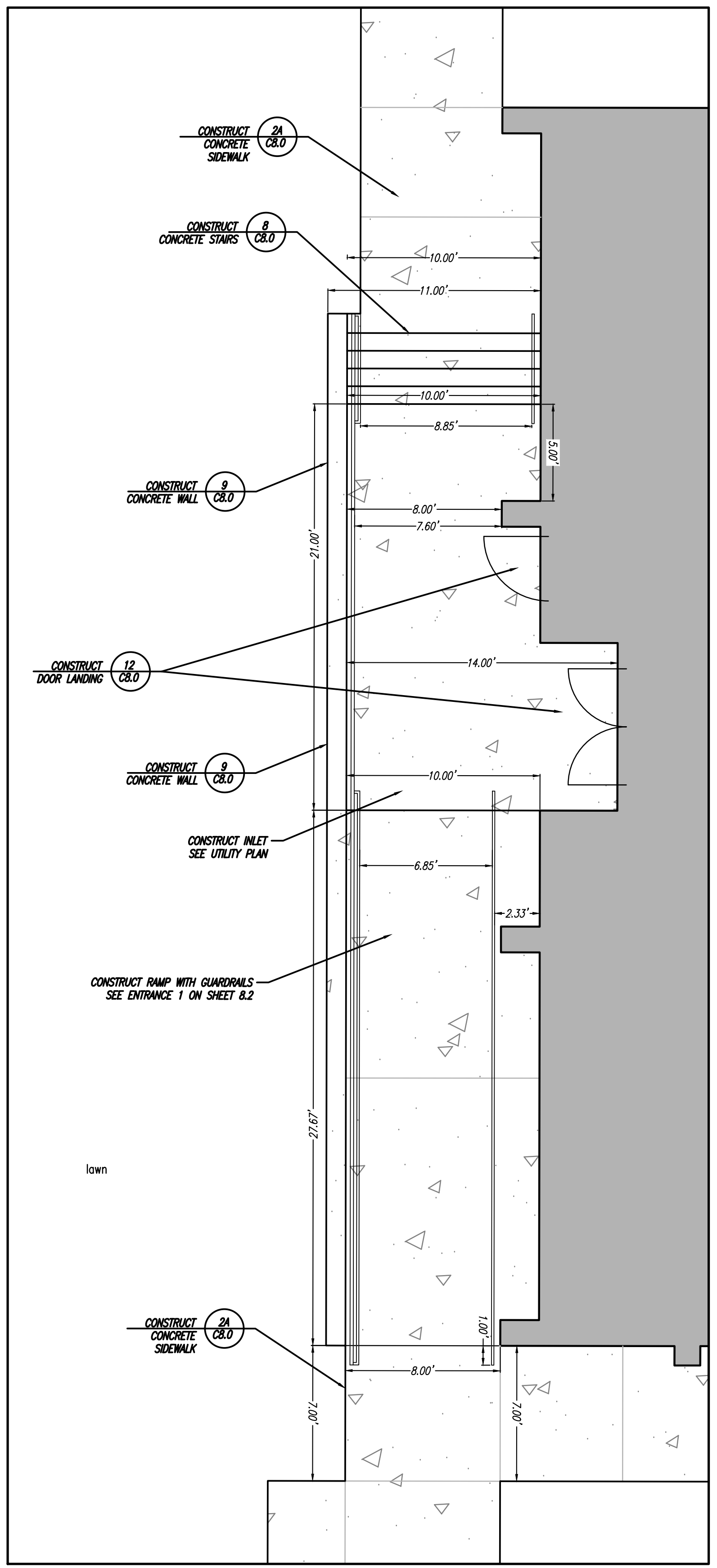
Project Number	5516B
Project Date	10.10.2025
Checked By	GRD
Drawn By	
Scale	

Drawing Name
SITE LAYOUT PLAN

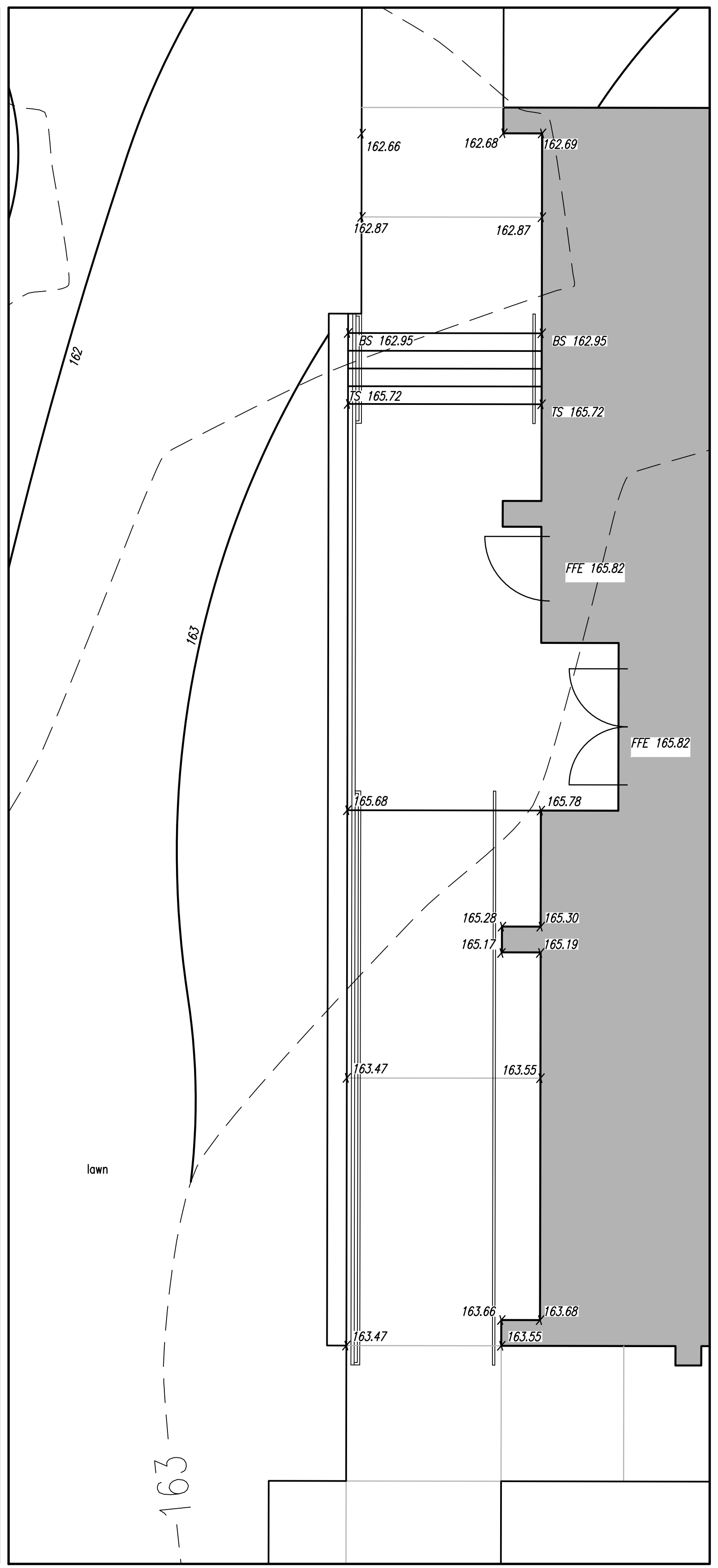
Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
	12.15.25	ISSUED FOR BID
1	1.14.26	ADDENDUM 1

Drawing Number
C-3.0


CONSTRUCT CONCRETE SIDEWALK 2A C8.0
CONSTRUCT CONCRETE STAIRS 8 C8.0
CONSTRUCT CONCRETE WALL 9 C8.0
CONSTRUCT DOOR LANDING 12 C8.0
CONSTRUCT CONCRETE WALL 9 C8.0
CONSTRUCT INLET SEE UTILITY PLAN
CONSTRUCT RAMP WITH GUARDRAILS SEE ENTRANCE 1 ON SHEET 8.2
CONSTRUCT CONCRETE SIDEWALK 2A C8.0
10.00'
11.00'
10.00'
8.85'
5.00'
8.00'
7.60'
21.00'
14.00'
10.00'
6.85'
2.33'
27.67'
1.00'
8.00'
7.00'
7.00'
lawn

ENTRANCE 1 SITE PLAN SCALE 1"=5'



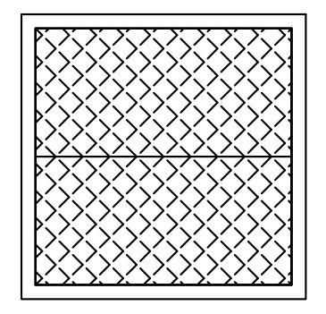
ENTRANCE 1 GRADING PLAN SCALE 1"=5'

KRAKEN FILTER DESIGN NOTES

- KRAKEN FILTER TREATMENT CAPACITY VARIES BY CARTRIDGE COUNT AND LOCALLY APPROVED SURFACE AREA SPECIFIC FLOW RATE. PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD
- A 6' x 12' PEAK DIVERSION STYLE KRAKEN FILTER (KFPD0612) IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (96) AND IS AVAILABLE IN A LEFT INLET (AS SHOWN) OR A RIGHT INLET CONFIGURATION
- ALL PARTS AND INTERNAL ASSEMBLY PROVIDED BY CONTECH UNLESS NOTED OTHERWISE

CARTRIDGE HEIGHT	30"	20"	10"
RECOMMENDED HYDRAULIC DROP (H)	38.5"	28.5"	18.5"
SPECIFIC FLOW RATE (gpm/sf)	0.10	0.10	0.10
CARTRIDGE FLOW RATE (gpm)	17	10.6	4.9

FRAME AND COVER
(DIAMETER MAY VARY)
(NOT TO SCALE)

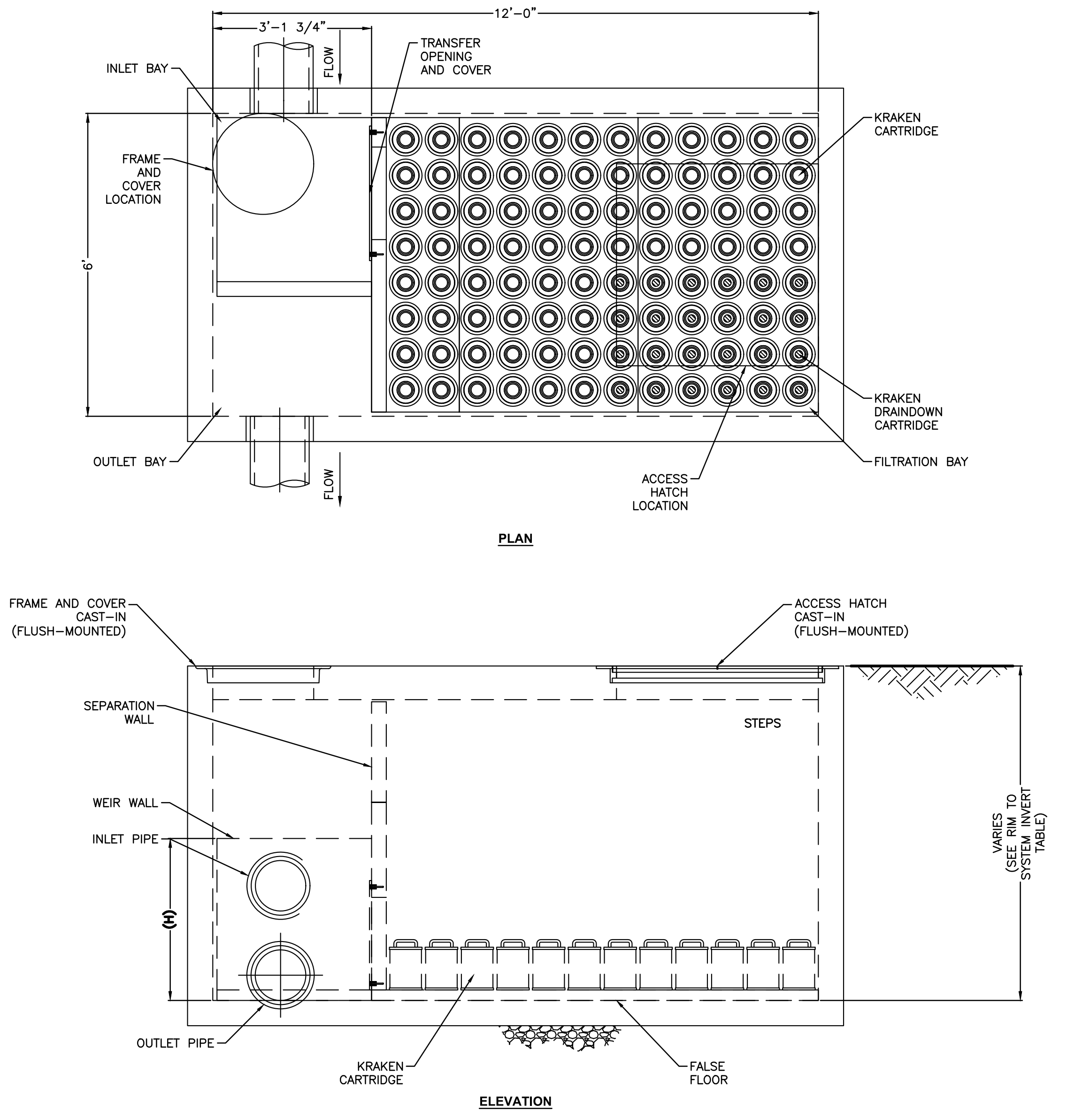


ACCESS HATCH
(48" SQUARE)
(NOT TO SCALE)

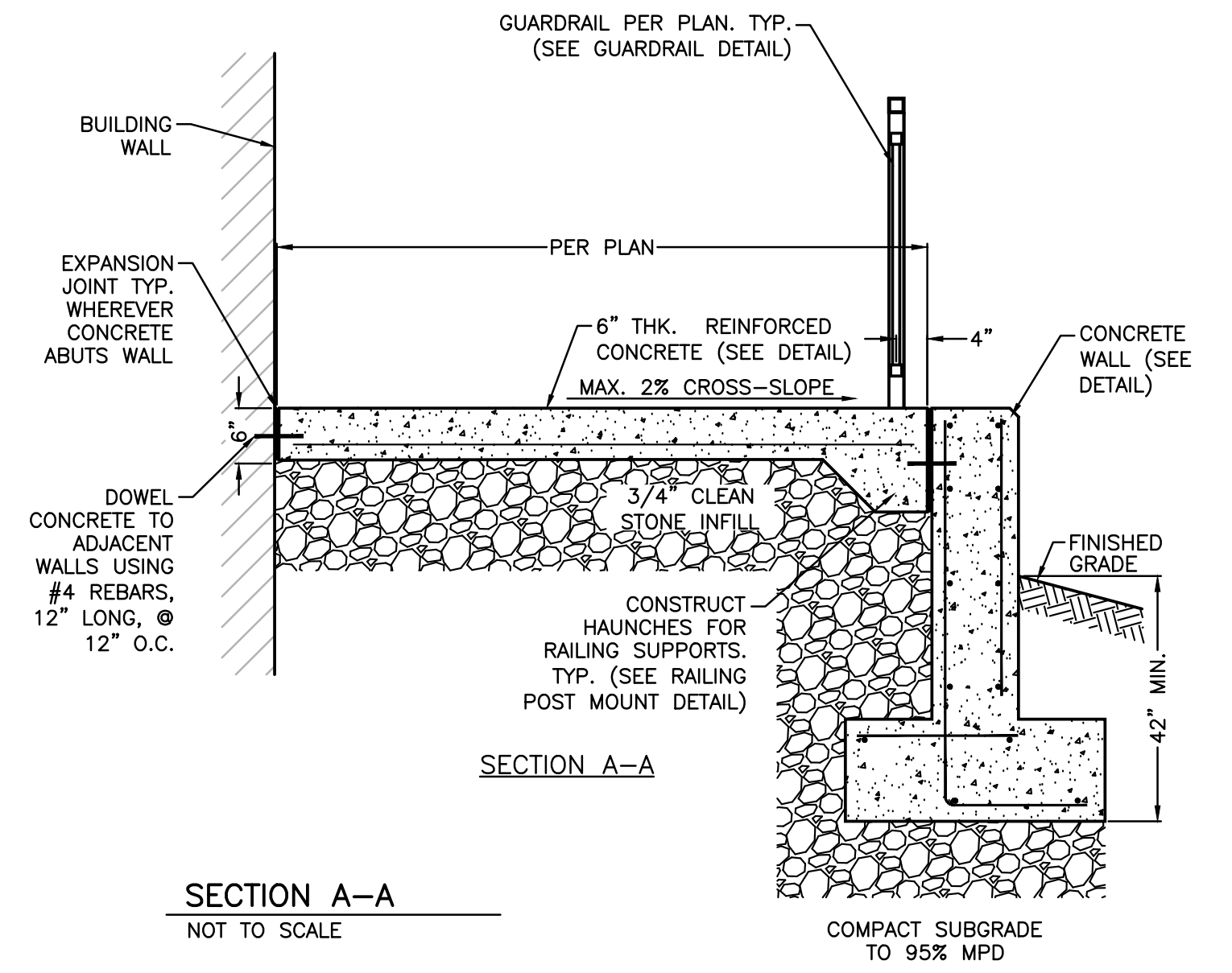
RIM TO SYSTEM INVERT		
CARTRIDGE HEIGHT	MIN. HEIGHT	MAX. HEIGHT
10"	3'-0"	4'-10"
20"	3'-8"	4'-10"
30"	4'-4"	4'-10"

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. ALTERNATE DIMENSIONS ARE IN MILLIMETERS [mm] UNLESS NOTED OTHERWISE.
4. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.ContechES.com
5. KRAKEN FILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
6. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 0' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.

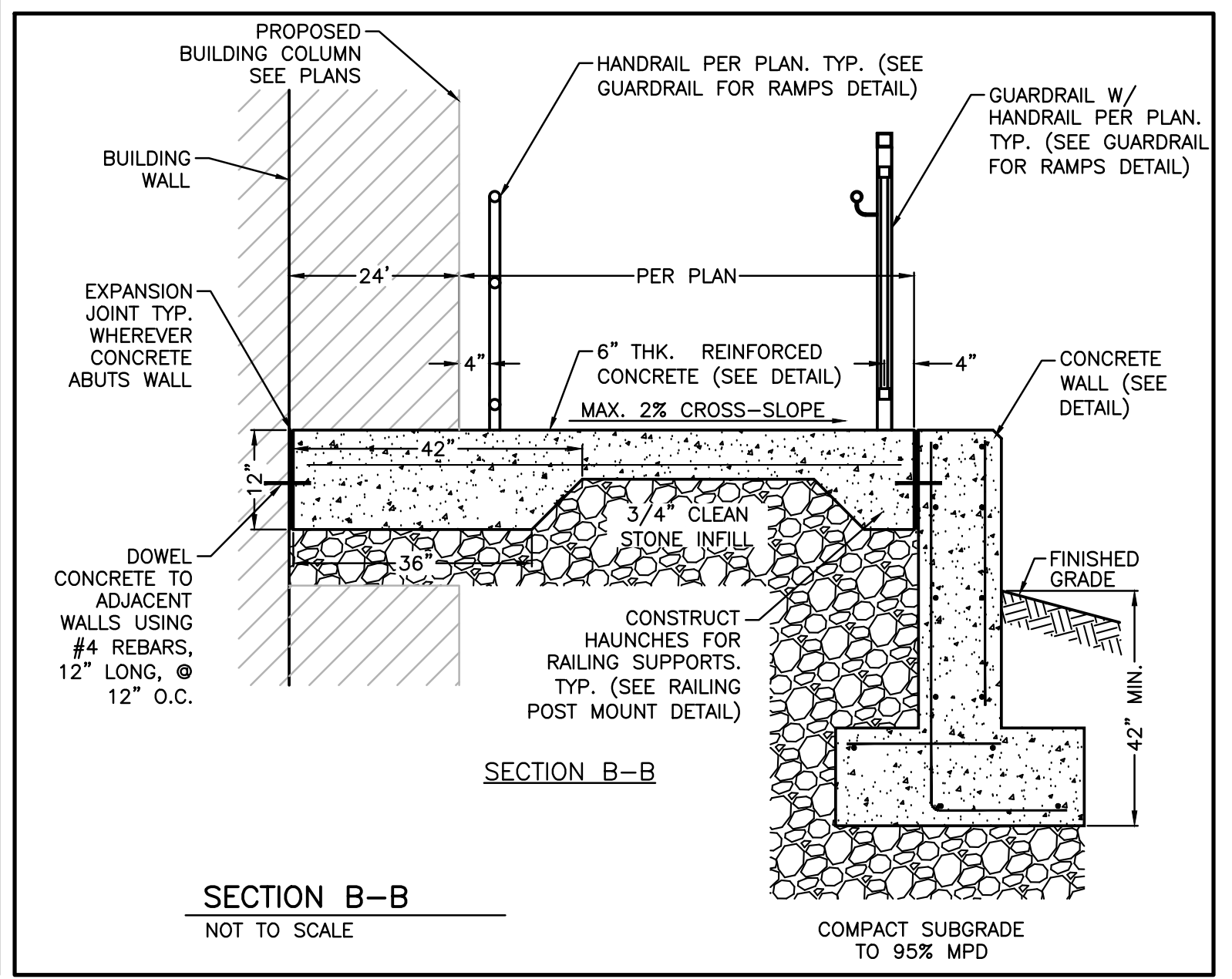
INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE KRAKEN FILTER STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
F. CONTRACTOR TO REMOVE THE TRANSFER OPENING COVER WHEN THE SYSTEM IS ACTIVATED.



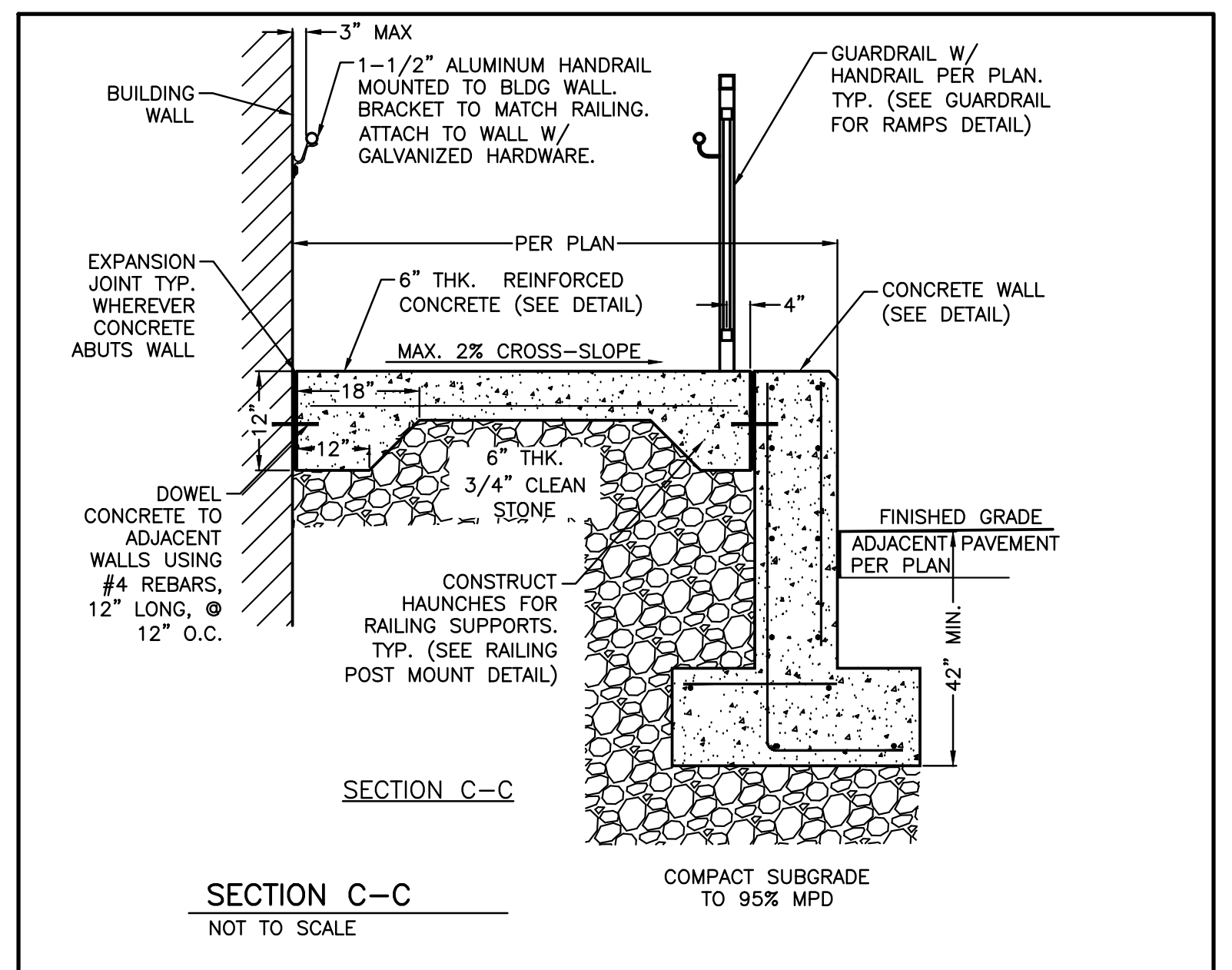
1 MANUFACTURED TREATMENT DEVICE
NOT TO SCALE


BUILDING WALL
GUARDRAIL PER PLAN. TYP. (SEE GUARDRAIL DETAIL)
PER PLAN
EXPANSION JOINT TYP. WHEREVER CONCRETE ABUTS WALL
6" THK. REINFORCED CONCRETE (SEE DETAIL)
4"
CONCRETE WALL (SEE DETAIL)
MAX. 2% CROSS-SLOPE
6"
DOWEL CONCRETE TO ADJACENT WALLS USING #4 REBARS, 12" LONG, @ 12" O.C.
3/4" CLEAN STONE INFILL
FINISHED GRADE
CONSTRUCT HAUNCHES FOR RAILING SUPPORTS. TYP. (SEE RAILING POST MOUNT DETAIL)
42" MIN.
SECTION A-A
COMPACT SUBGRADE TO 95% MPD

SECTION A-A
NOT TO SCALE


PROPOSED BUILDING COLUMN SEE PLANS
HANDRAIL PER PLAN. TYP. (SEE GUARDRAIL FOR RAMPS DETAIL)
GUARDRAIL W/ HANDRAIL PER PLAN. TYP. (SEE GUARDRAIL FOR RAMPS DETAIL)
BUILDING WALL
24'
PER PLAN
EXPANSION JOINT TYP. WHEREVER CONCRETE ABUTS WALL
4"
6" THK. REINFORCED CONCRETE (SEE DETAIL)
4"
CONCRETE WALL (SEE DETAIL)
MAX. 2% CROSS-SLOPE
42"
12"
3/4" CLEAN STONE INFILL
36"
DOWEL CONCRETE TO ADJACENT WALLS USING #4 REBARS, 12" LONG, @ 12" O.C.
FINISHED GRADE
CONSTRUCT HAUNCHES FOR RAILING SUPPORTS. TYP. (SEE RAILING POST MOUNT DETAIL)
42" MIN.
SECTION B-B
COMPACT SUBGRADE TO 95% MPD

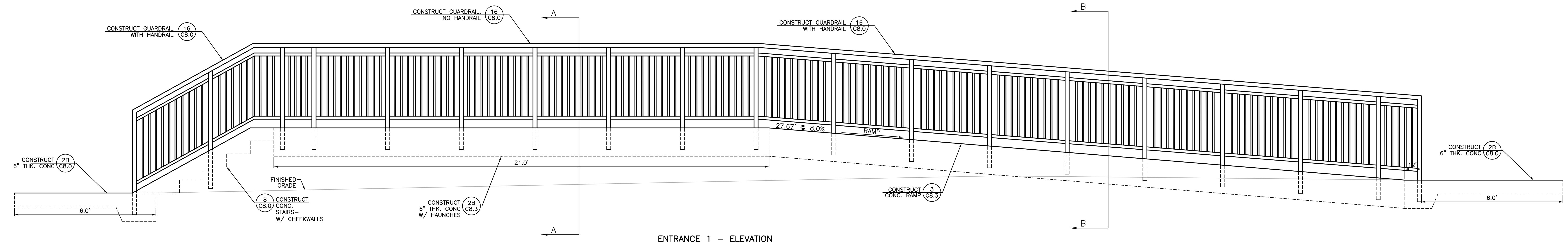
SECTION B-B
NOT TO SCALE


3" MAX
1-1/2" ALUMINUM HANDRAIL MOUNTED TO BLDG WALL. BRACKET TO MATCH RAILING. ATTACH TO WALL W/ GALVANIZED HARDWARE.
BUILDING WALL
GUARDRAIL W/ HANDRAIL PER PLAN. TYP. (SEE GUARDRAIL FOR RAMPS DETAIL)
PER PLAN
EXPANSION JOINT TYP. WHEREVER CONCRETE ABUTS WALL
6" THK. REINFORCED CONCRETE (SEE DETAIL)
4"
CONCRETE WALL (SEE DETAIL)
MAX. 2% CROSS-SLOPE
18"
12"
12"
6" THK. 3/4" CLEAN STONE
DOWEL CONCRETE TO ADJACENT WALLS USING #4 REBARS, 12" LONG, @ 12" O.C.
FINISHED GRADE
ADJACENT PAVEMENT PER PLAN
CONSTRUCT HAUNCHES FOR RAILING SUPPORTS. TYP. (SEE RAILING POST MOUNT DETAIL)
42" MIN.
SECTION C-C
COMPACT SUBGRADE TO 95% MPD

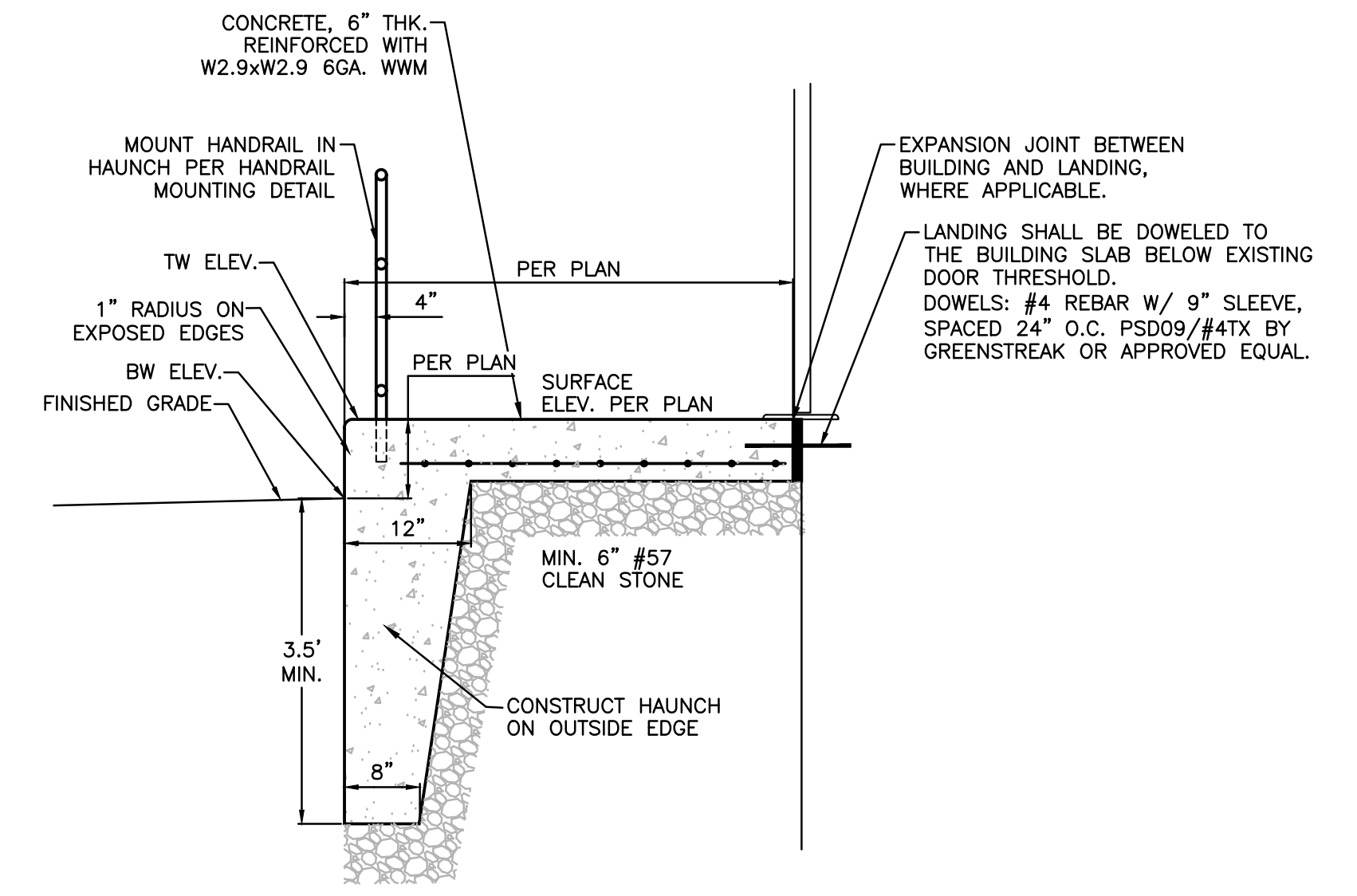
SECTION C-C
NOT TO SCALE

NOTE:
THE HORIZONTAL DATUM IS BASED UPON THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83. THE VERTICAL DATUM IS BASED UPON NAVD88. BOTH DATUMS WERE ESTABLISHED BY TAKING STATIC GPS OBSERVATIONS ON KNOWN SURVEY CONTROL POINTS AND THEN SUBMITTING THE DATA TO OPUS RS FOR POST-PROCESSING

SCALE: 1"=5'

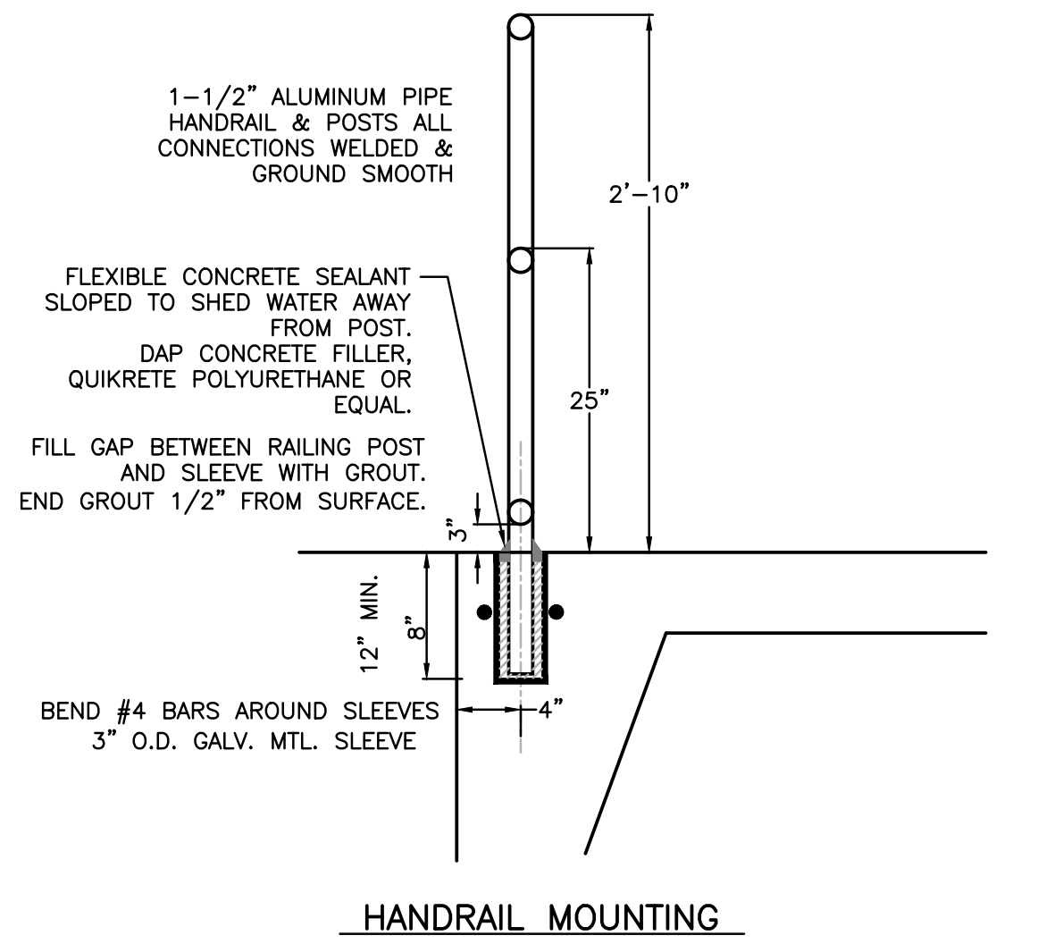

CONSTRUCT GUARDRAIL WITH HANDRAIL 16 C8.0
CONSTRUCT GUARDRAIL, NO HANDRAIL 16 C8.0
A
CONSTRUCT GUARDRAIL WITH HANDRAIL 16 C8.0
B
27.67' @ 8.0%
RAMP
CONSTRUCT 6" THK. CONC 2B C8.0
21.0'
FINISHED GRADE
CONSTRUCT CONC. STAIRS- W/ CHEEKWALLS 8 C8.0
CONSTRUCT 6" THK. CONC W/ HAUNCHES 2B C8.3
CONSTRUCT CONC. RAMP 3 C8.3
CONSTRUCT 6" THK. CONC 2B C8.0
12"
6.0'
6.0'
A
B

ENTRANCE 1 - ELEVATION
SCALE: 1"=2"

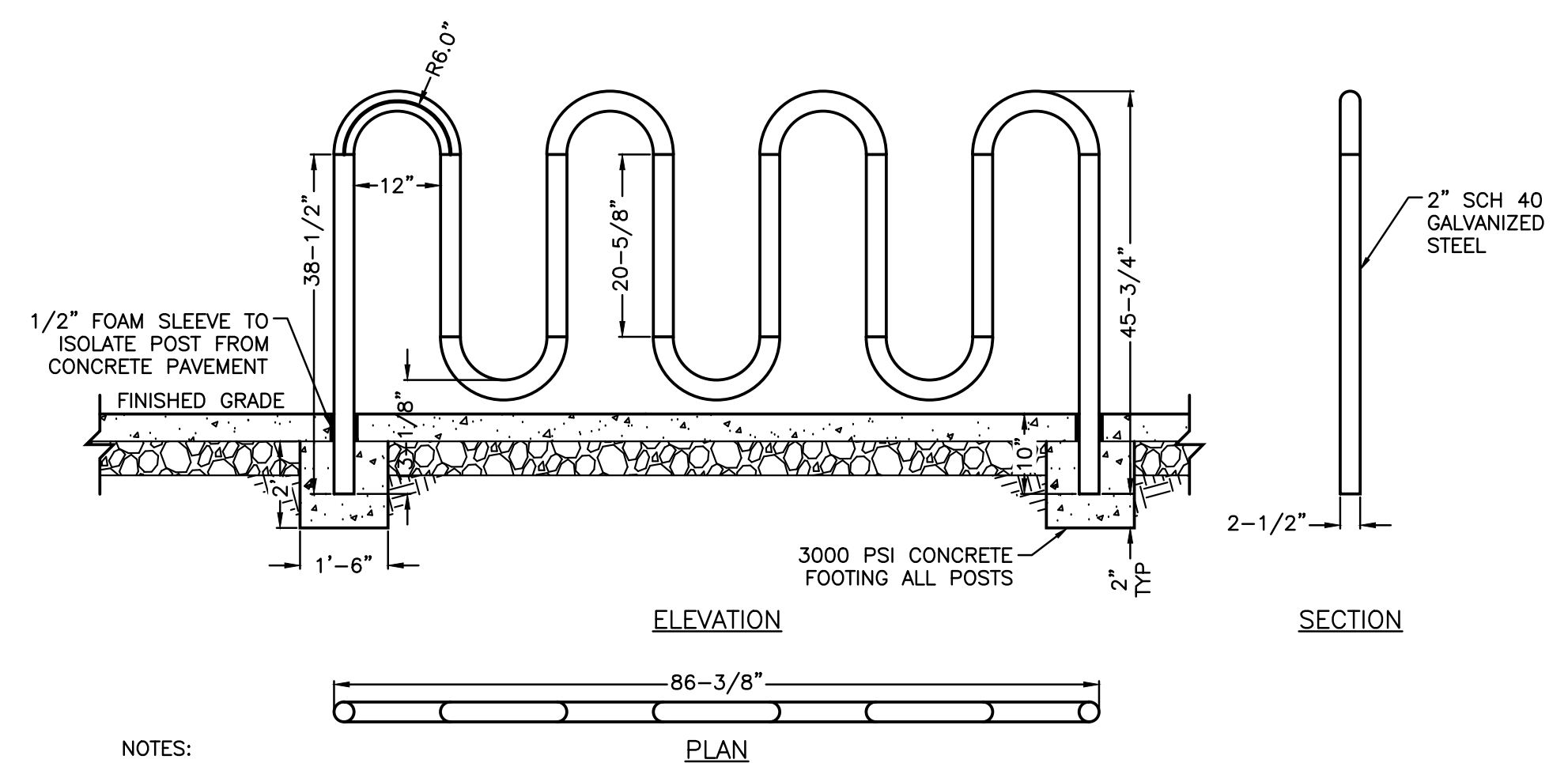

CONCRETE, 6" THK. REINFORCED WITH W2.9xW2.9 6GA. WWM
MOUNT HANDRAIL IN HAUNCH PER HANDRAIL MOUNTING DETAIL
EXPANSION JOINT BETWEEN BUILDING AND LANDING, WHERE APPLICABLE.
TW ELEV.
PER PLAN
4"
1" RADIUS ON EXPOSED EDGES
PER PLAN
SURFACE ELEV. PER PLAN
BW ELEV.
FINISHED GRADE
12"
MIN. 6" #57 CLEAN STONE
3.5' MIN.
CONSTRUCT HAUNCH ON OUTSIDE EDGE
8"

LANDING SHALL BE DOWELED TO THE BUILDING SLAB BELOW EXISTING DOOR THRESHOLD.
DOWELS: #4 REBAR W/ 9" SLEEVE, SPACED 24" O.C. PSD09/#4TX BY GREENSTREAK OR APPROVED EQUAL.

2 WALKWAY W/ HANDRAIL
NOT TO SCALE


1-1/2" ALUMINUM PIPE HANDRAIL & POSTS ALL CONNECTIONS WELDED & GROUND SMOOTH
2'-10"
FLEXIBLE CONCRETE SEALANT SLOPED TO SHED WATER AWAY FROM POST. DAP CONCRETE FILLER, QUIKRETE POLYURETHANE OR EQUAL.
25"
FILL GAP BETWEEN RAILING POST AND SLEEVE WITH GROUT. END GROUT 1/2" FROM SURFACE.
3"
12" MIN.
8"
BEND #4 BARS AROUND SLEEVES 3" O.D. GALV. MTL. SLEEVE
4"

HANDRAIL MOUNTING
NOT TO SCALE


R6.0"
12"
38-1/2"
20-5/8"
45-3/4"
1/2" FOAM SLEEVE TO ISOLATE POST FROM CONCRETE PAVEMENT
FINISHED GRADE
2'
1/8"
10"
1'-6"
3000 PSI CONCRETE FOOTING ALL POSTS
2" TYP
2" SCH 40 GALVANIZED STEEL
2-1/2"
ELEVATION
SECTION
86-3/8"
PLAN

NOTES:
1. EACH BIKE RACK SHALL HOLD 9 BIKES.
2. RACK MUST BE MADE OF GALVANIZED, RUST-RESISTANT, HEAVY DUTY STEEL.
3. BIKE RACK SHALL BE PARK WAREHOUSE 9 BIKE SONIC WAVE RACK (900br165) OR APPROVED EQUAL. REFER TO MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION

3 PERMANENT STEEL BIKE RACK
NOT TO SCALE

1

NJDCA Electronic Release Stamp

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ - 21AI01706000 | PA - RA012520X
GEORGE R. DUTHIE JR., AIA, PP
NJ - 21AI01299200
JASON J. DUBOWITCH, AIA
NJ - 21AI01979800 | PA - RA406009
STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

Architect

10/10/25
Date

FVHD architects planners
Fraytak Veisz Hopkins Duthie P C

Corporate: 1515 Lower Ferry Road
Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Avenue
Mont Clare - Pennsylvania 19453

F V H D P C . C O M

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

Project Number
5516B

Project Date
10.10.2025

Checked By
GRD

Drawn By

Scale

Drawing Name
DETAILS

Revisions

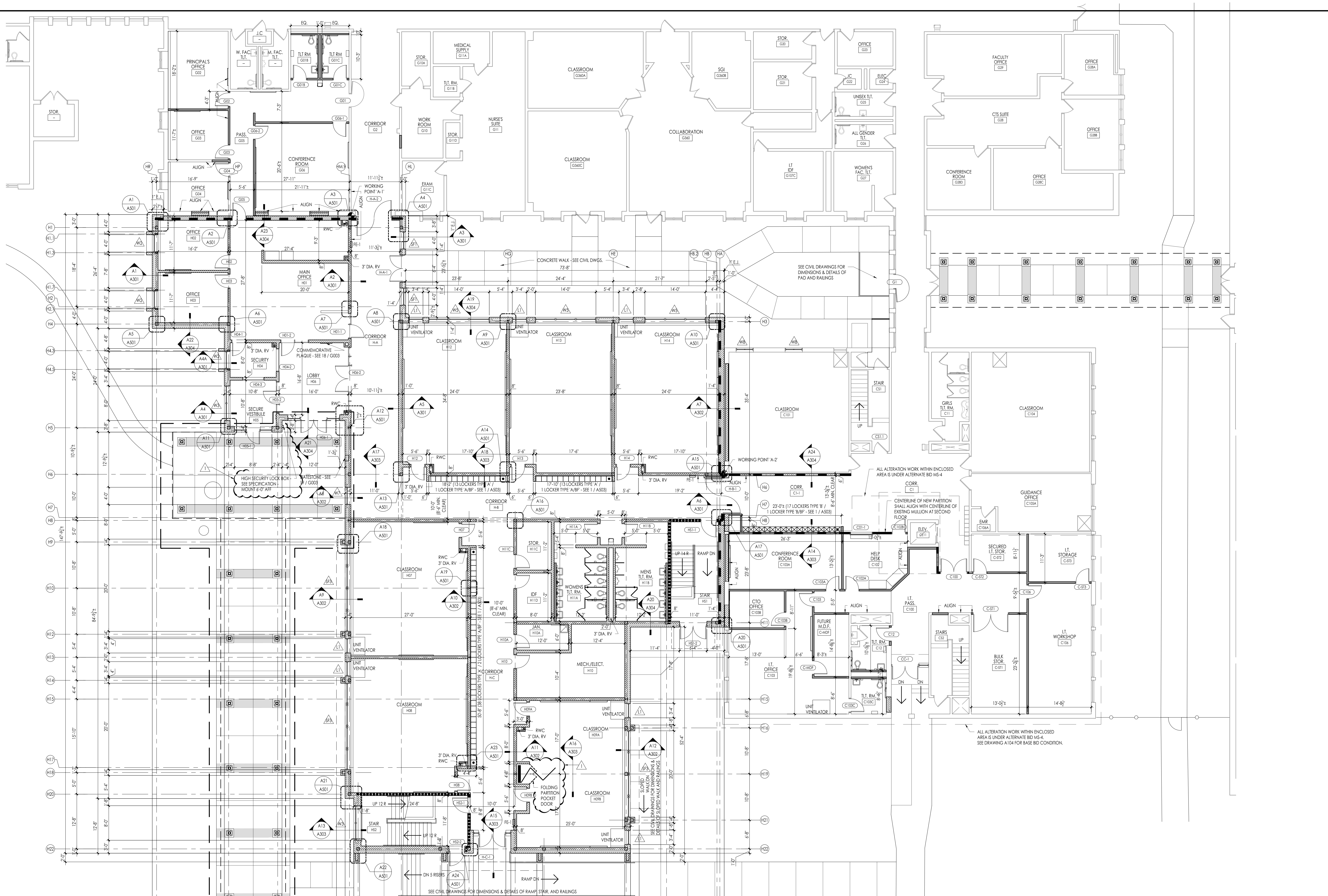
No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
	12.15.25	ISSUED FOR BID
1	1.14.26	ADDENDUM 1

Civil Engineering Consultant: EEG 1631D

EDWARDS
ENGINEERING
GROUP
AN L2A COMPANY

Beth E. Kenderdine
BETH E. KENDERDINE, P.E.
Professional Engineer
12.15.25
Date
NJ. Lic. No. GE45532

Drawing Number
C-8.2



Floor Plan - Block 'A' - First Floor

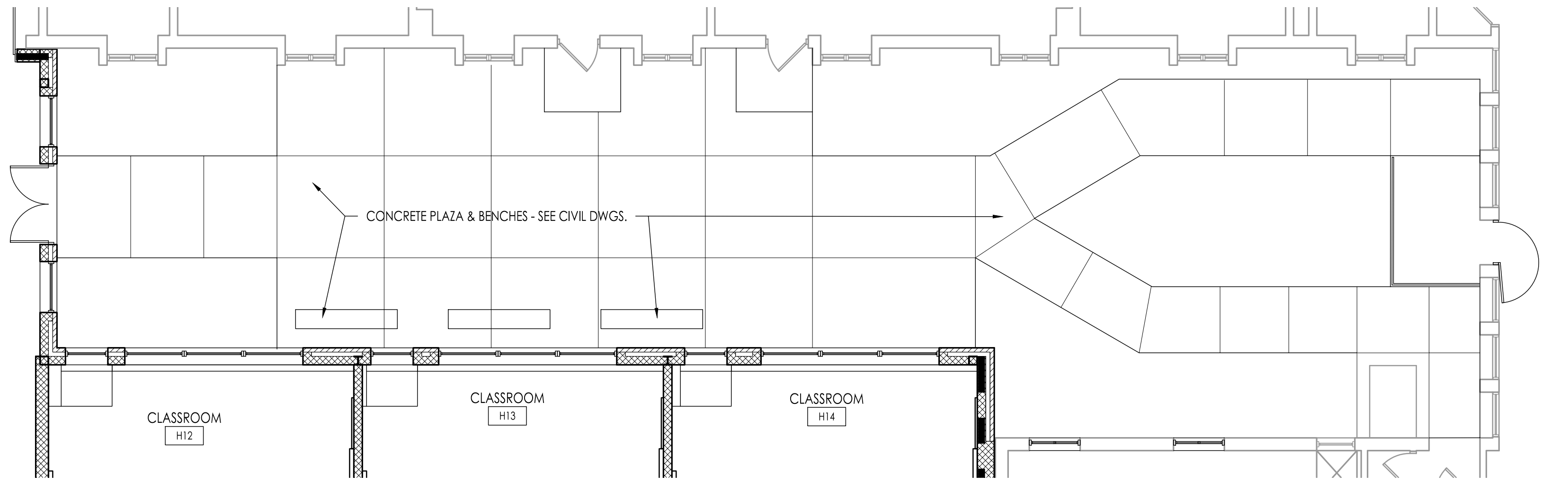
Scale: 1/8" = 1'-0"

PLAN LEGEND

▨	BRICK
▩	NEW CMU PARTITION
▬	NEW GYPSUM BOARD PARTITION - MTL. STUDS (SEE FLOOR PLAN OR WALL SECTIONS FOR DEPTH) @ 16" O.C. W/ SOUND ATTENUATION BLANKET AND 5/8" GYPSUM BOARD EACH SIDE (TYP. U.N.O.) GYPSUM BOARD AT LOCATIONS ADJACENT TO SINKS SHALL BE IMPACT / WATER RESISTANT GYPSUM BOARD.
FE-1	NEW FIRE EXTINGUISHER IN SEMI-RECESSED CABINET (CMU WALL) - SEE DETAIL 5 / G003
FE-2	NEW FIRE EXTINGUISHER ON BRACKET
AED	AED CABINET (SEMI-RECESSED) - SEE DETAIL 5A / G003
WB	WHITEBOARD - SEE SPECIFICATIONS
DMB	DRYMARKER BOARD - SEE SPECIFICATIONS AND DETAIL 4 / Axxx
EB	EXHIBITION BOARD - SEE SPECIFICATIONS AND DETAIL 5 / Axxx
▬ ▬ ▬	NEW / EXISTING 2-HOUR RATED FIRE WALL
▪▪▪▪▪▪▪▪	NEW / EXISTING 1-HOUR RATED FIRE BARRIER WALL
▬ ╷ ╷ ▬	NEW / EXISTING 1-HOUR RATED CORRIDOR FIRE PARTITION
	NEW FIRE RATED WALLS SHALL BE CONSTRUCTED OF CONCRETE MASONRY UNITS (CMU) PER UL DES U905 FOR 8" CMU AND THICKER AND PER UL DES U906 FOR 6" CMU. SEE DETAILS 8 & 9 / G003. SEE FLOOR PLANS, WALL SECTIONS AND PLAN DETAILS FOR LOCATIONS AND ACTUAL CMU THICKNESS.

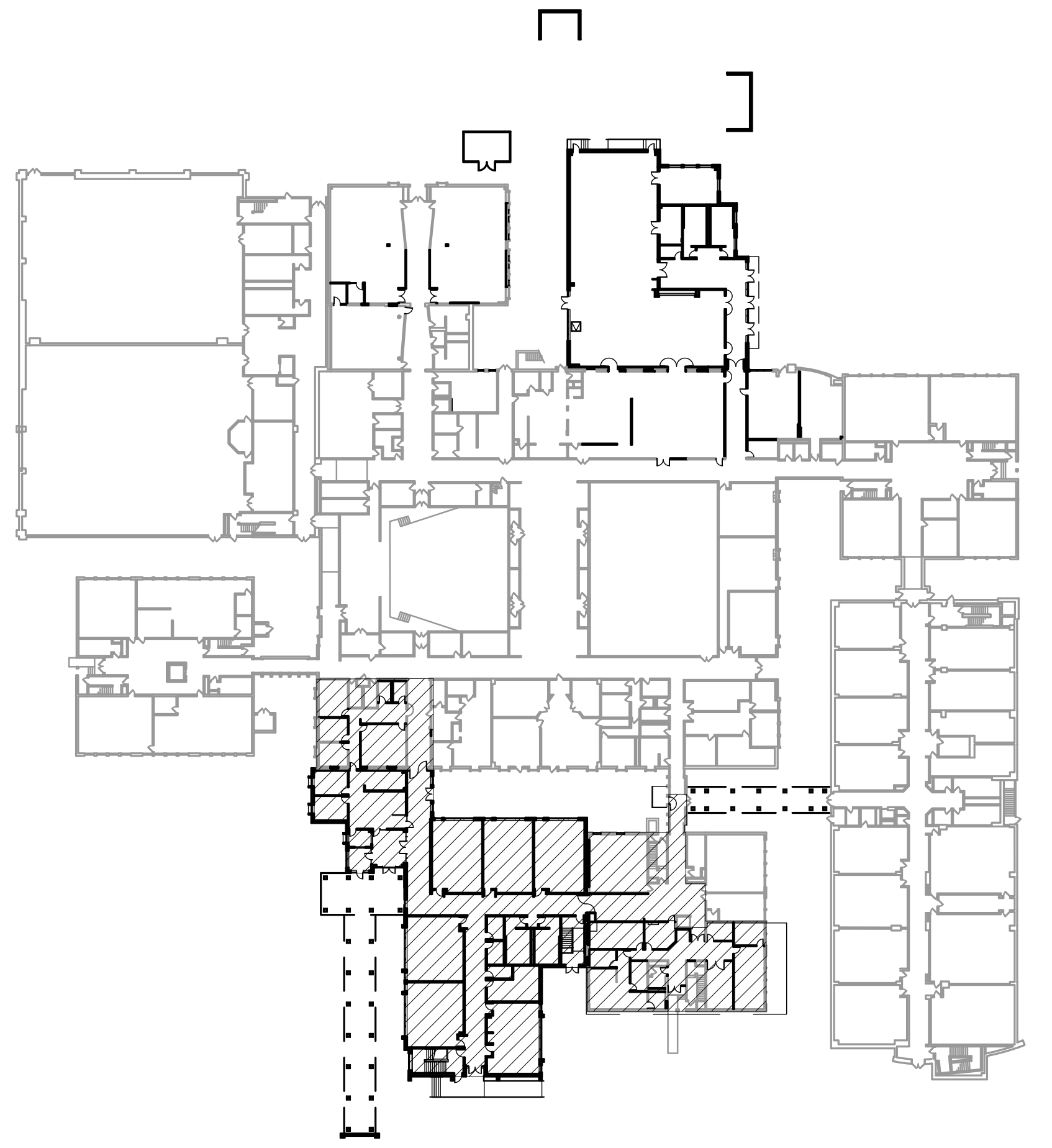
PLAN NOTES

1. ALL NEW WALLS SHALL EXTEND TO UNDERSIDE OF ROOF OR FLOOR DECK ABOVE UNLESS NOTED OTHERWISE.
2. IN ALL LOCATIONS WHERE NEW STEEL STUD AND GYPSUM BOARD WALL CONSTRUCTION IS INDICATED, PROVIDE CONTROL JOINTS AT SPACING NOT TO EXCEED 24'-0" O.C. FINAL LOCATIONS OF CONTROL JOINTS TO BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL.
3. ALL EXPOSED EXTERIOR STEEL LINTELS SHALL BE PAINTED GALVANIZED STEEL.
4. ALL BIDDERS MUST VISIT THE SITE AND VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO SUBMITTING A BID. IF ANY DISCREPANCIES OR OMISSIONS ARE FOUND, THE BIDDER(S) MUST NOTIFY THE ARCHITECT OF THESE, IN WRITING, AT LEAST TEN (10) WORKING DAYS PRIOR TO RECEIPT OF BIDS. IF THEY DO NOT DO SO, ANY MODIFICATION OR CORRECTION SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.



Partial Floor Plan - Block 'A' - Courtyard Alt. Bid No. MS-3

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



Key Plan - First Floor

Scale: 1/64" = 1'-0"

NJDCA Electronic Release Stamp

FVHD architects planners
Fraytak Veisz Hopkins Duthie P C

Corporate: 1515 Lower Ferry Road
Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Avenue
Mont Clare - Pennsylvania 19453
F V H D P C . C O M

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STEPHEN W. SCHREYER JR.., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

Architect
10/10/25
Date

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

Project Number
5516B

Project Date
10.10.2025

Checked By
GRD

Drawn By
NEH, ETS

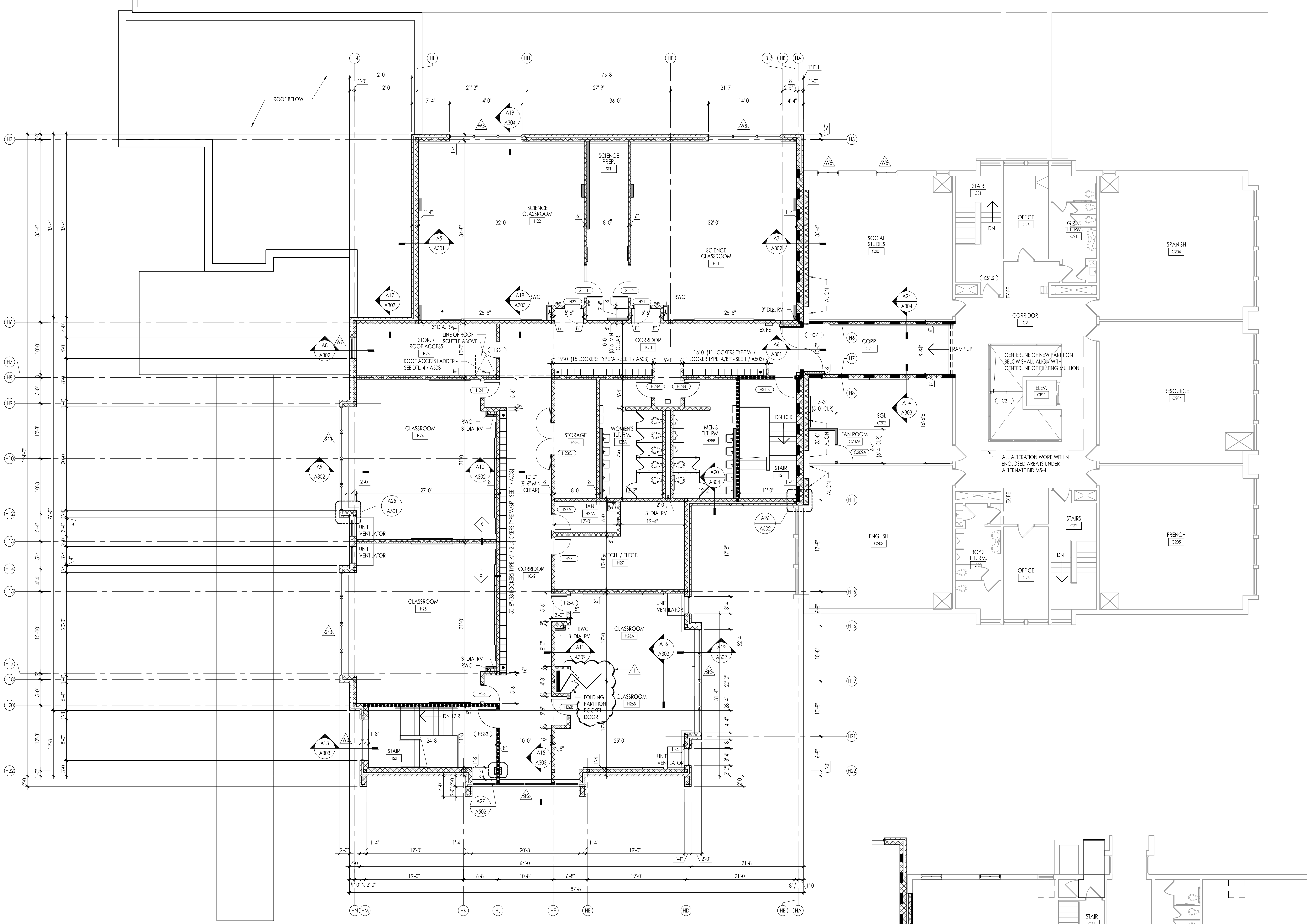
Scale
1/8" = 1'-0"

Drawing Name
Floor Plan - Block 'A' - First Floor

Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
	12.15.25	NJ DCA RESPONSES
1	1.14.26	ADDENDUM 1

Drawing Number
A103



Floor Plan - Block 'A' - Second Floor
Scale: 1/8" = 1'-0"

PLAN LEGEND

▨	BRICK
▩	NEW CMU PARTITION
▬	NEW GYPSUM BOARD PARTITION - MTL. STUDS (SEE FLOOR PLAN OR WALL SECTIONS FOR DEPTH) @ 16" O.C. W/ SOUND ATTENUATION BLANKET AND 5/8" GYPSUM BOARD EACH SIDE (TYP. U.N.O.) GYPSUM BOARD AT LOCATIONS ADJACENT TO SINKS SHALL BE IMPACT / WATER RESISTANT GYPSUM BOARD.
FE-1 FE-2	NEW FIRE EXTINGUISHER IN SEMI-RECESSED CABINET (CMU WALL) - SEE DETAIL 5 / G003 NEW FIRE EXTINGUISHER ON BRACKET
AED	AED CABINET (SEMI-RECESSED) - SEE DETAIL 5A / G003
WB DMB EB	WHITEBOARD - SEE SPECIFICATIONS DRYMARKER BOARD - SEE SPECIFICATIONS AND DETAIL 4 / Axxx EXHIBITION BOARD - SEE SPECIFICATIONS AND DETAIL 5 / Axxx
▬ ▬ ▬	NEW / EXISTING 2-HOUR RATED FIRE WALL
▪▪▪▪▪▪	NEW / EXISTING 1-HOUR RATED FIRE BARRIER WALL
▬ ╎ ╎ ▬	NEW / EXISTING 1-HOUR RATED CORRIDOR FIRE PARTITION
	NEW FIRE RATED WALLS SHALL BE CONSTRUCTED OF CONCRETE MASONRY UNITS (CMU) PER UL DES U905 FOR 8" CMU AND THICKER AND PER UL DES U906 FOR 6" CMU. SEE DETAILS 8 & 9 / G003. SEE FLOOR PLANS, WALL SECTIONS AND PLAN DETAILS FOR LOCATIONS AND ACTUAL CMU THICKNESS.

PLAN NOTES

1. ALL NEW WALLS SHALL EXTEND TO UNDERSIDE OF ROOF OR FLOOR DECK ABOVE UNLESS NOTED OTHERWISE.
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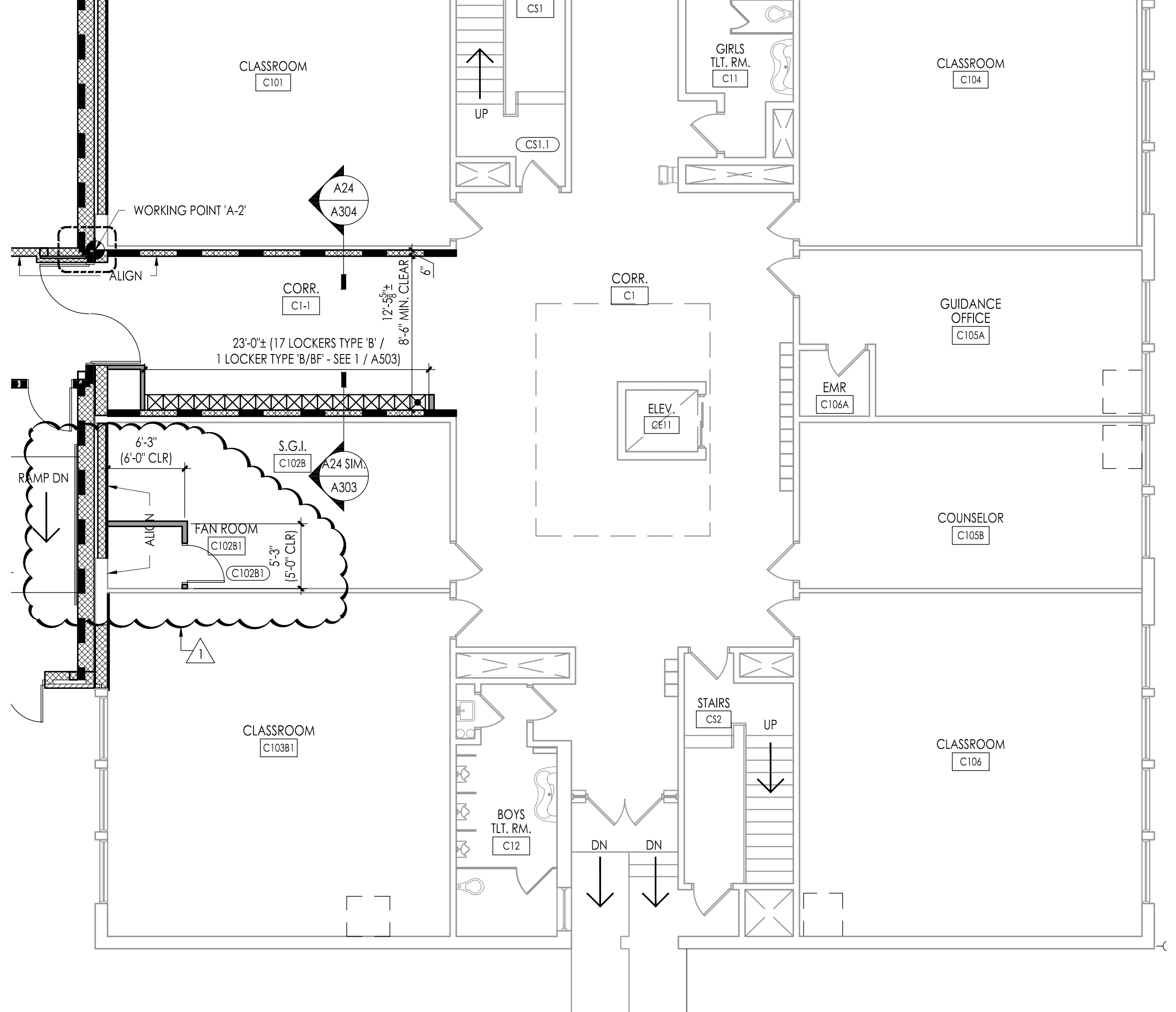
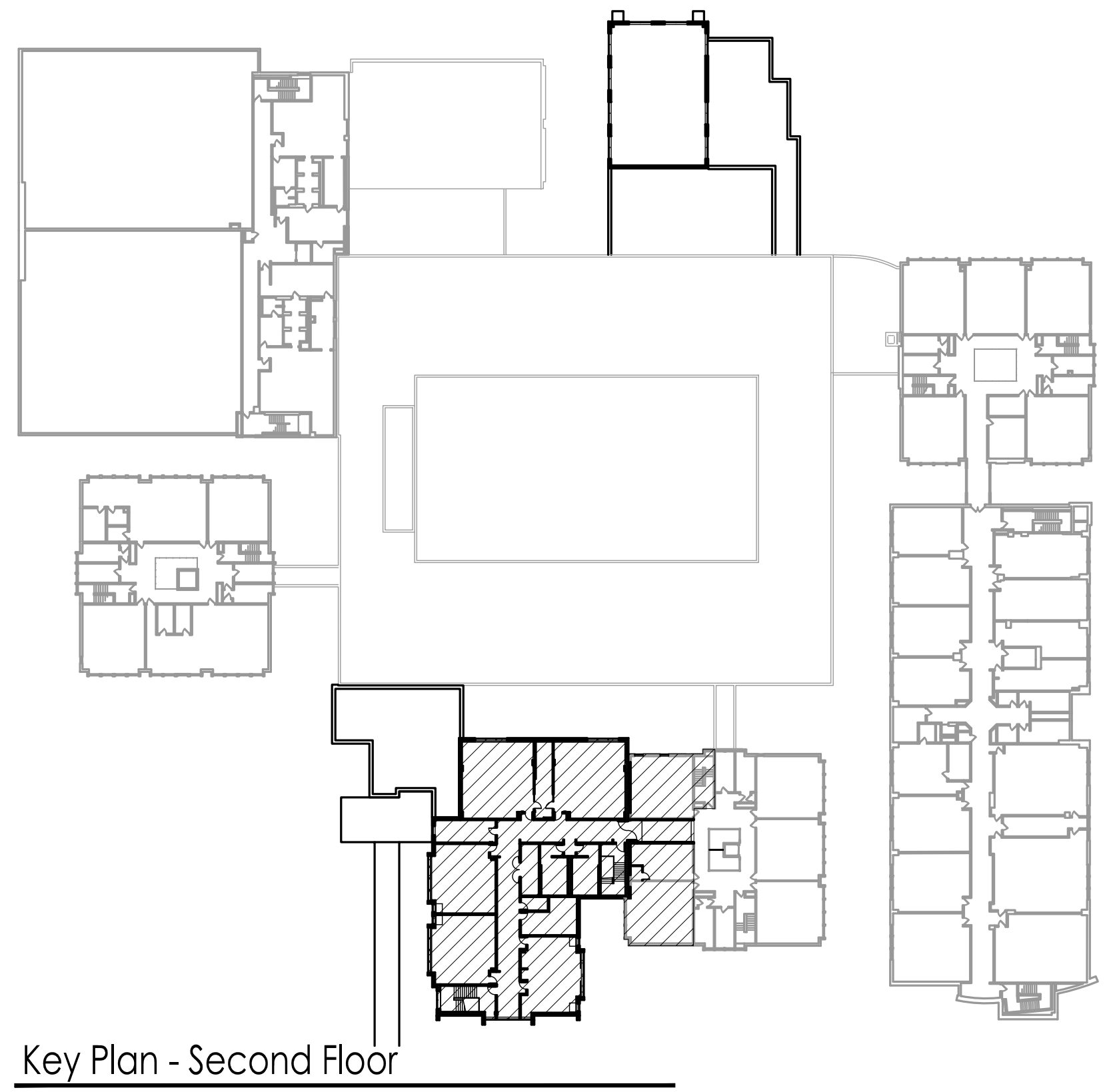


Partial Floor Plan - Block 'A' - First Floor - Base Bid
Scale: 1/8" = 1'-0"



Key Plan - Second Floor
Scale: 1/64" = 1'-0"

NJDCA Electronic Release Stamp

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ - 21AI01706000 | PA - RA012520X
GEORGE R. DUTHIE JR., AIA, PP
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Architect
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FVHDPC.COM

Project Name
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Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

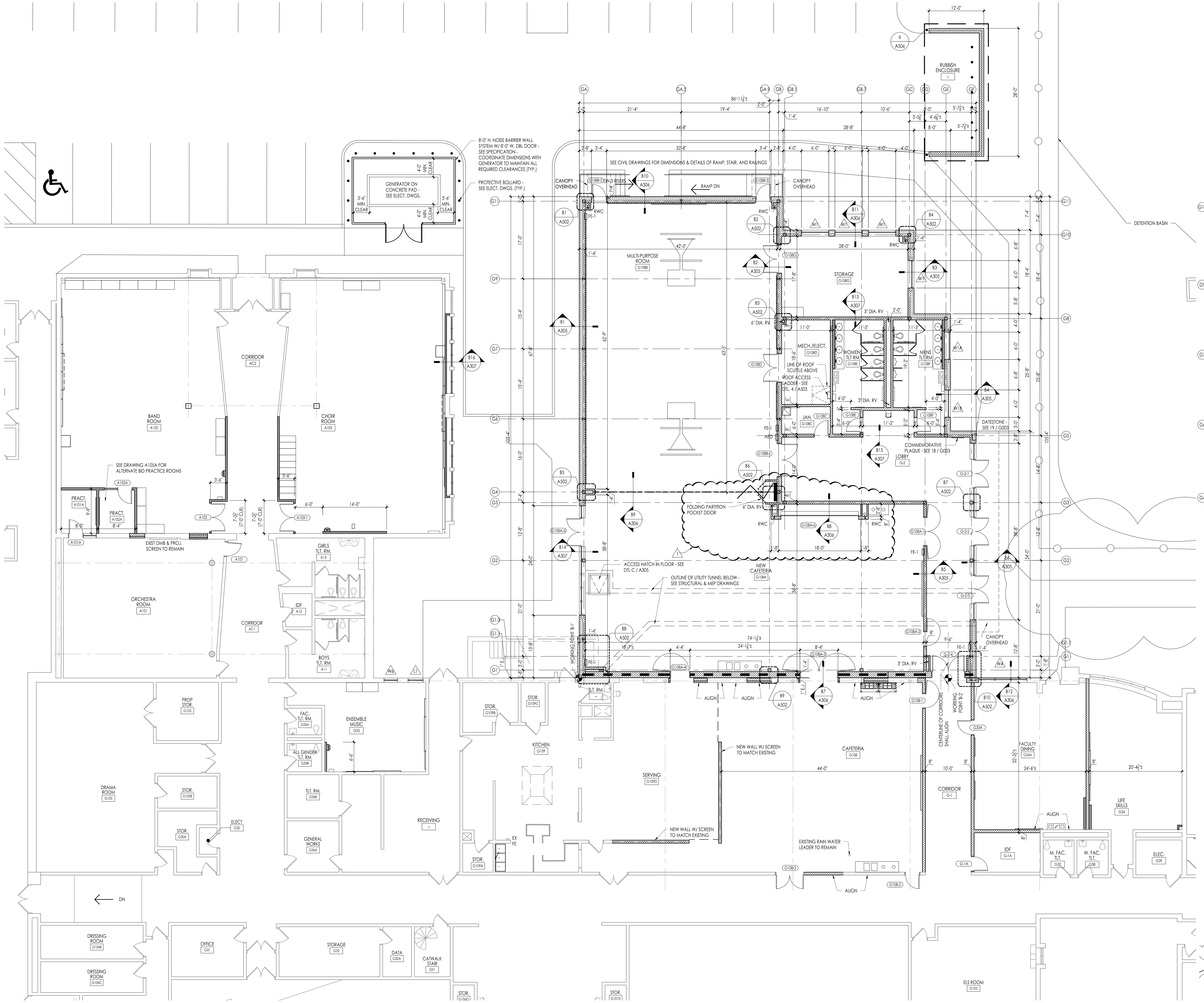
Project Number	5516B
Project Date	10.10.2025
Checked By	GRD
Drawn By	NEH, ETS
Scale	1/8" = 1'-0"

Drawing Name
Floor Plan - Block 'A' - Second Floor

Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.15.25	NJ DCA RESPONSES
1	1.14.26	ADDENDUM 1

Drawing Number
A104


RUBBISH ENCLOSURE
8'-0" H. NOISE BARRIER WALL SYSTEM W/ 8'-0" W. DBL DOOR - SEE SPECIFICATION - COORDINATE DIMENSIONS WITH GENERATOR TO MAINTAIN ALL REQUIRED CLEARANCES (TYP.)
PROTECTIVE BOLLARD - SEE ELECT. DWGS. (TYP.)
GENERATOR ON CONCRETE PAD - SEE ELECT. DWGS.
SEE CIVIL DRAWINGS FOR DIMENSIONS & DETAILS OF RAMP, STAIR, AND RAILINGS
CANOPY OVERHEAD
DN 3 RISERS
RAMP DN
DETENTION BASIN
MULTI-PURPOSE ROOM G108B
STORAGE G108G
MECH./ELECT. G108D
WOMENS TLT RM G108E
MENS TLT RM G108F
JAN. G108C
LINE OF ROOF SCUTTLE ABOVE
ROOF ACCESS LADDER - SEE DTL. 4 / A503
DATESTONE - SEE 19 / G003
COMMEMORATIVE PLAQUE - SEE 18 / G003
LOBBY G-2
FOLDING PARTITION POCKET DOOR
ACCESS HATCH IN FLOOR - SEE DTL C / A305
OUTLINE OF UTILITY TUNNEL BELOW - SEE STRUCTURAL & MEP DRAWINGS
NEW CAFETERIA G108A
WORKING POINT 'B-1'
WORKING POINT 'B-2'
CENTERLINE OF CORRIDORS SHALL ALIGN
ALIGN
NEW WALL W/ SCREEN TO MATCH EXISTING
EXISTING RAIN WATER LEADER TO REMAIN
CAFETERIA G108
KITCHEN G109
SERVING G109D
RECEIVING
CORRIDOR G-1
FACULTY DINING G34A
LIFE SKILLS G34
IDF G-1A
M. FAC. TLT. G37
W. FAC. TLT. G38
ELEC. G29
BAND ROOM A102
CHOIR ROOM A103
CORRIDOR AC2
SEE DRAWING A105A FOR ALTERNATE BID PRACTICE ROOMS
PRACT. A101A
PRACT. A102A
EXIST DMB & PROJ. SCREEN TO REMAIN
ORCHESTRA ROOM A101
CORRIDOR AC1
GIRLS TLT. RM. A13
IDF A12
BOYS TLT. RM. A11
PROP STOR. G105
DRAMA ROOM G105
ENSEMBLE MUSIC
FAC. TLT. RM.
ALL GENDER TLT. RM.
GENERAL WORKS G36A
ELECT. G30
DRESSING ROOM G106B
DRESSING ROOM G106C
OFFICE G31
STORAGE G32
DATA G32A
CATWALK STAIR GS1
ELS ROOM G102
DN

Floor Plan - Block 'B'

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

PLAN LEGEND

▨	BRICK
▩	NEW CMU PARTITION
▬	NEW GYPSUM BOARD PARTITION - MTL. STUDS (SEE FLOOR PLAN OR WALL SECTIONS FOR DEPTH) @ 16" O.C. W/ SOUND ATTENUATION BLANKET AND 5/8" GYPSUM BOARD EACH SIDE (TYP. U.N.O.) GYPSUM BOARD AT LOCATIONS ADJACENT TO SINKS SHALL BE IMPACT / WATER RESISTANT GYPSUM BOARD.
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▪▪▪▪▪▪	NEW / EXISTING 1-HOUR RATED FIRE BARRIER WALL
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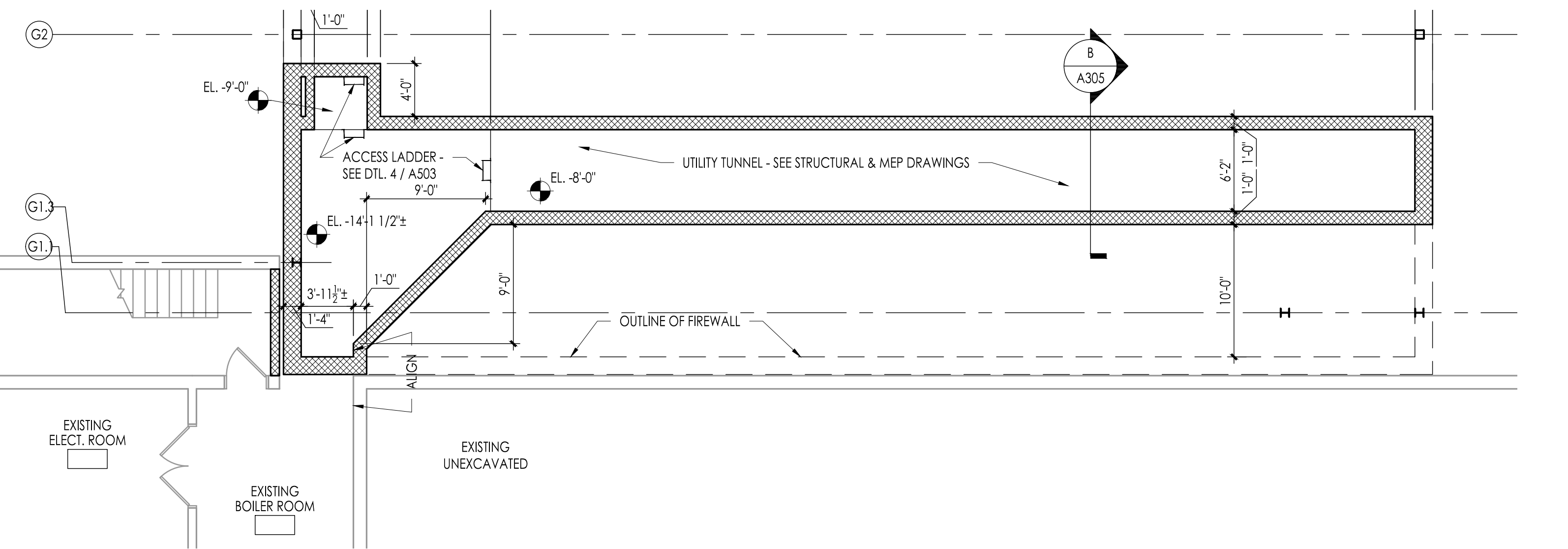
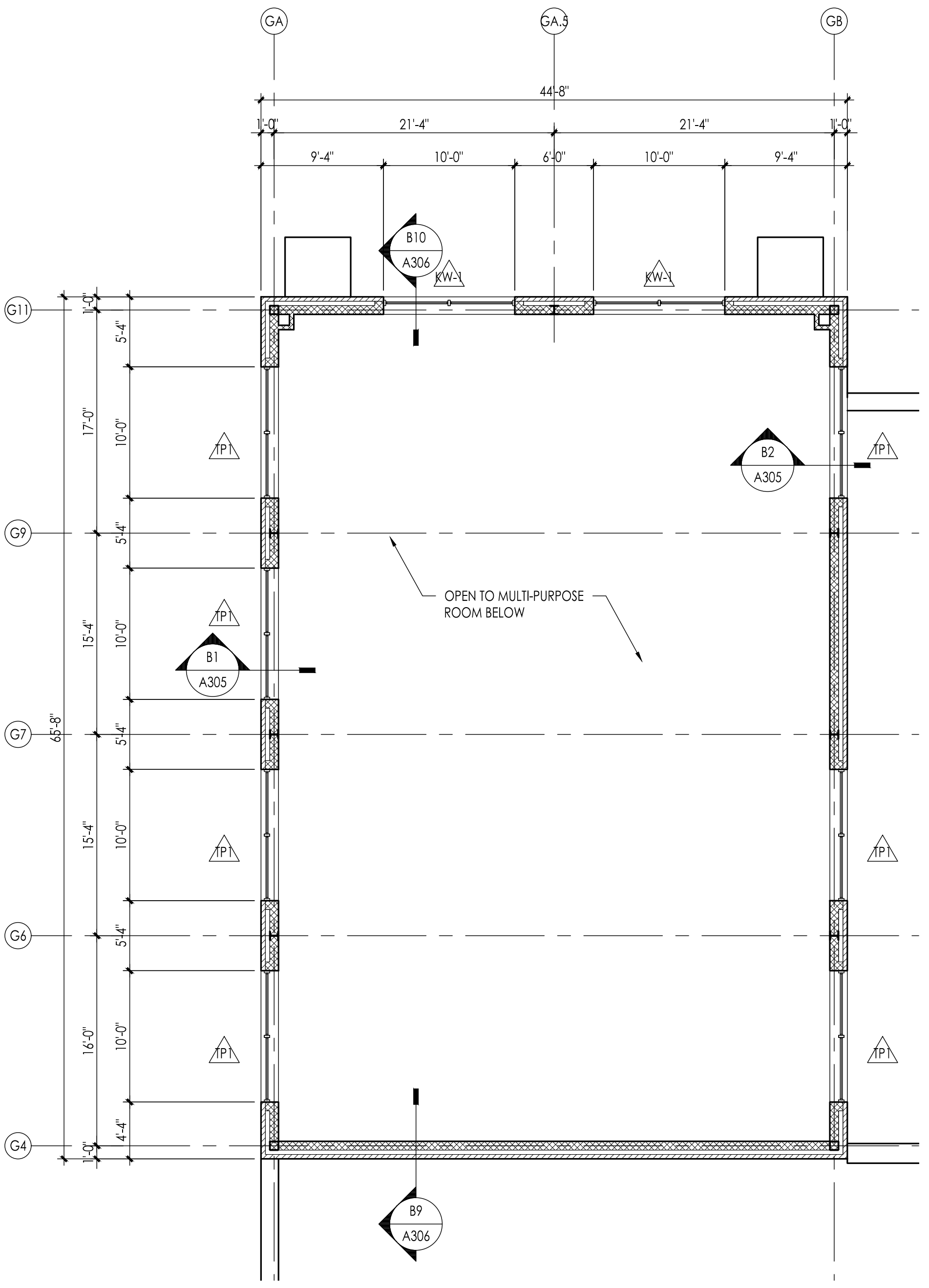
1. ALL NEW WALLS SHALL EXTEND TO UNDERSIDE OF ROOF OR FLOOR DECK ABOVE UNLESS NOTED OTHERWISE.
2. IN ALL LOCATIONS WHERE NEW STEEL STUD AND GYPSUM BOARD WALL CONSTRUCTION IS INDICATED, PROVIDE CONTROL JOINTS AT SPACING NOT TO EXCEED 24'-0" O.C. FINAL LOCATIONS OF CONTROL JOINTS TO BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL.
3. ALL EXPOSED EXTERIOR STEEL LINTELS SHALL BE PAINTED GALVANIZED STEEL.
4. ALL BIDDERS MUST VISIT THE SITE AND VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO SUBMITTING A BID. IF ANY DISCREPANCIES OR OMISSIONS ARE FOUND, THE BIDDER(S) MUST NOTIFY THE ARCHITECT OF THESE, IN WRITING, AT LEAST TEN (10) WORKING DAYS PRIOR TO RECEIPT OF BIDS. IF THEY DO NOT DO SO, ANY MODIFICATION OR CORRECTION SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.



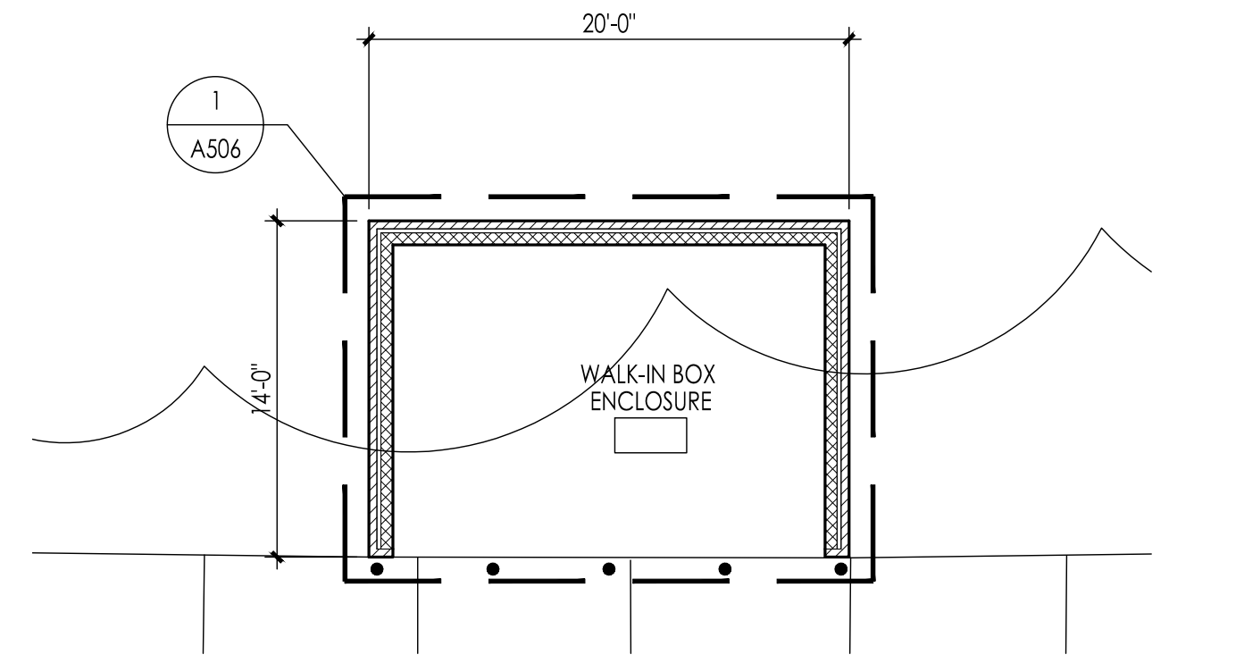
Partial Floor Plan - Block 'B' - Basement

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



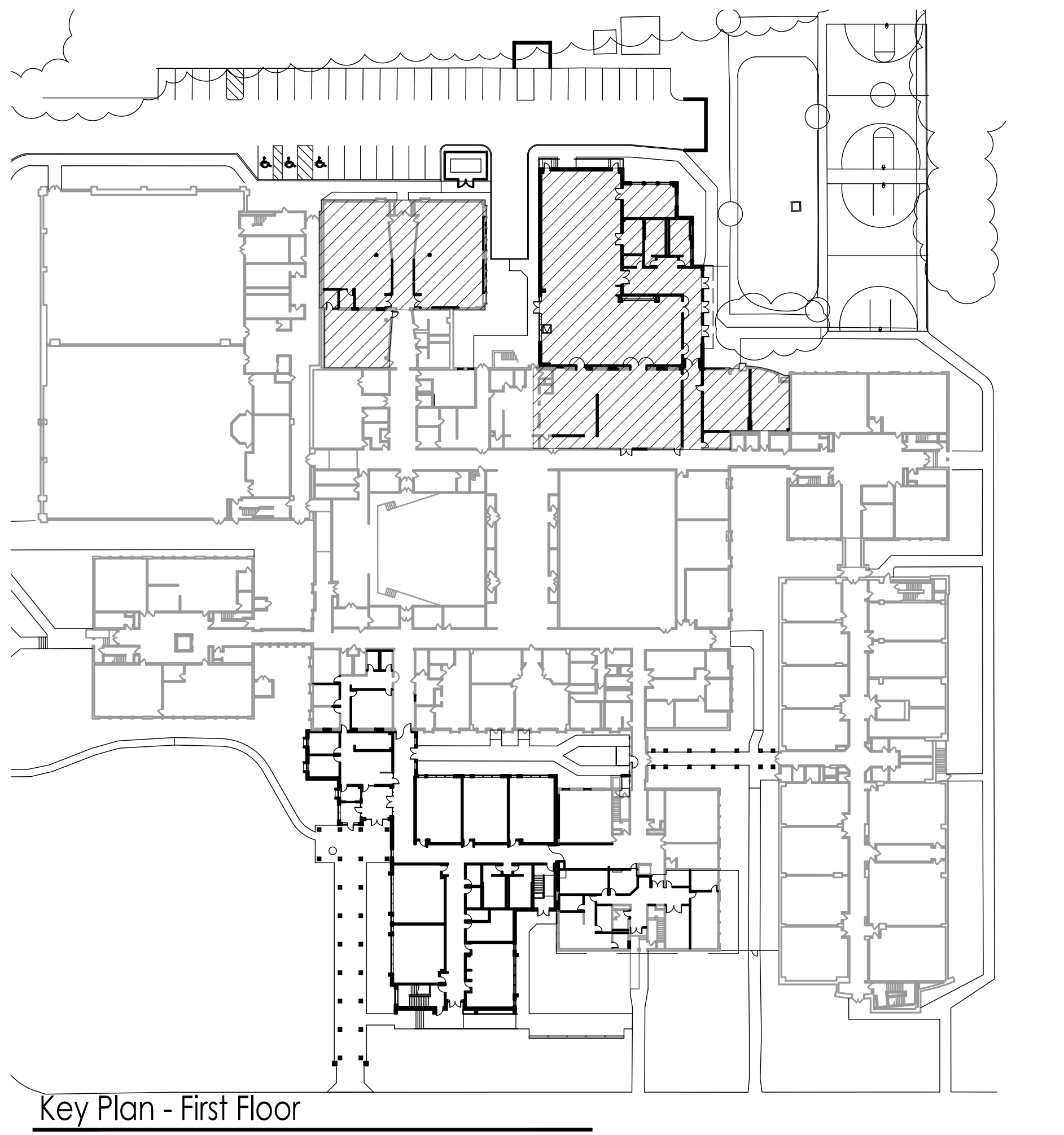
High Window Plan - Block 'B'

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



Walk-In Box Enclosure Plan - Block 'B'

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



Key Plan - First Floor

Scale: 1/64" = 1'-0"

NJDCA Electronic Release Stamp

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ - 21AI01706000 | PA - RA012520X
GEORGE R. DUTHIE JR., AIA, PP
NJ - 21AI01299200
JASON J. DUBOWITCH, AIA
NJ - 21AI01979800 | PA - RA406009
STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

Architect

10/10/25
Date

FVHD architects planners
Fraytak Veisz Hopkins Duthie P C

Corporate: 1515 Lower Ferry Road
Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Avenue
Mont Clare - Pennsylvania 19453

F V H D P C . C O M

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

Project Number
5516B

Project Date
10.10.2025

Checked By
GRD

Drawn By
NEH, ETS

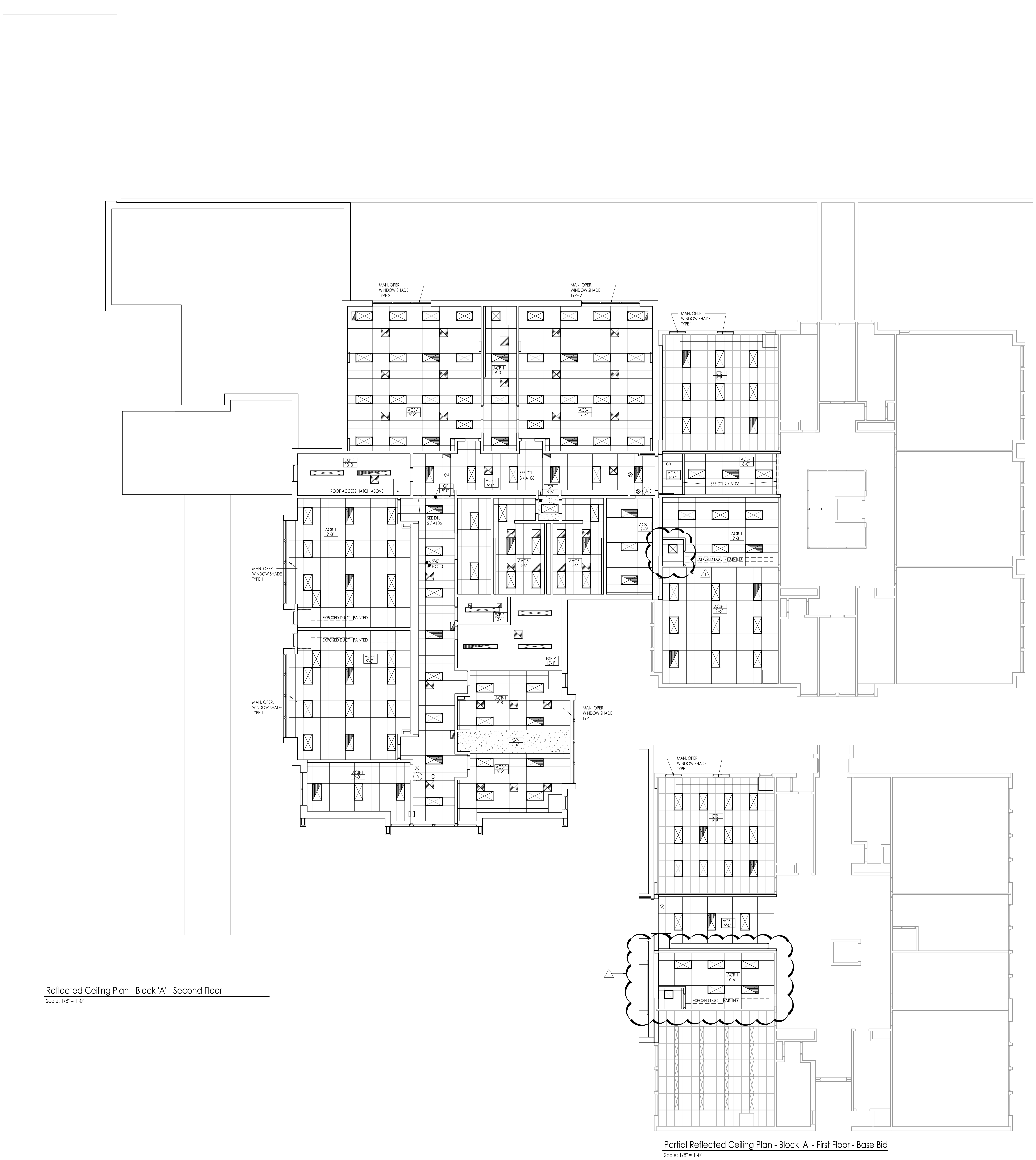
Scale
1/8" = 1'-0"

Drawing Name
Floor Plan - Block 'B'

Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
1	1.14.26	ADDENDUM 1

Drawing Number
A105


MAN. OPER. WINDOW SHADE TYPE 2
MAN. OPER. WINDOW SHADE TYPE 2
MAN. OPER. WINDOW SHADE TYPE 1
MAN. OPER. WINDOW SHADE TYPE 1
MAN. OPER. WINDOW SHADE TYPE 1
MAN. OPER. WINDOW SHADE TYPE 1
ACB-1 9'-8"
ACB-1 9'-0"
EXP-P 13'-3"
ROOF ACCESS HATCH ABOVE
SEE DTL 3 / A106
SEE DTL 2 / A106
SEE DTL 2 / A106
GP 8'-8"
GP 9'-4"
AACB 8'-6"
EXP-P 13'-1"
EXPOSED DUCT - PAINTED
ETR
A
1

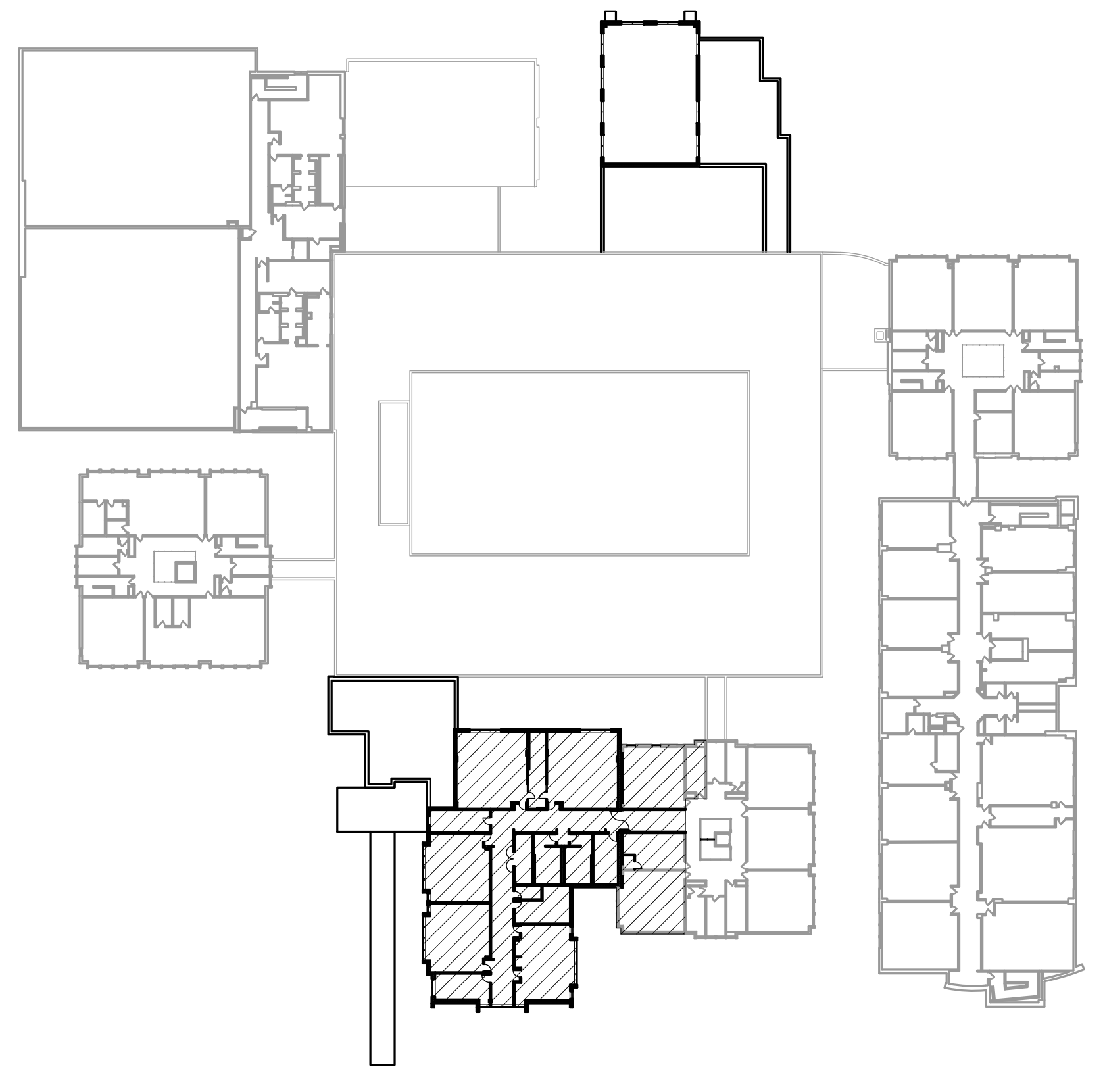
Reflected Ceiling Plan - Block 'A' - Second Floor

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

MAN. OPER. WINDOW SHADE TYPE 1
ETR
ACB-1 9'-6"
EXPOSED DUCT - PAINTED
1

Partial Reflected Ceiling Plan - Block 'A' - First Floor - Base Bid

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



Key Plan - Second Floor

Scale: 1/64" = 1'-0"

REFLECTED CEILING PLAN LEGEND

ACB-1 -2'x4' ACOUSTICAL CEILING BOARD - SEE FINISH SCHEDULE FOR LOCATION

ACB-2 - 2'x2' ACOUSTICAL CEILING BOARD - SEE FINISH SCHEDULE FOR LOCATION

ACB-3 - 2'x4' ACOUSTICAL CEILING SOUND BOARD - SEE FINISH SCHEDULE FOR LOCATION

AACB - 2'x4' ACRYLIC ACOUSTICAL CEILING BOARD - SEE FINISH SCHEDULE FOR LOCATION

GP - PAINTED GYPSUM BOARD SOFFIT

SUPPLY / RETURN / EXHAUST DIFFUSER (SEE HVAC DRAWINGS)

LIGHTS (SEE ELECTRICAL DRAWINGS)

LED ROUND PENDANT LIGHTS (SEE ELECTRICAL DRAWINGS)

SURFACE/ RECESSED LED LIGHTS (SEE ELECTRICAL DRAWINGS)

EMERGENCY LIGHTS (SEE ELECTRICAL DRAWINGS)

Ⓐ ILLUMINATED "AREA OF REFUGE" SIGN (SEE ELECTRICAL DRAWINGS)

⊗ ILLUMINATED "EXIT" SIGN (SEE ELECTRICAL DRAWINGS)

LCD PROJECTOR/ BRACKET

EXISTING PROJECTOR

NOTES:

1. SEE HVAC, PLUMBING AND ELECTRICAL DRAWINGS FOR TYPE, SIZE AND ADDITIONAL INFORMATION.
2. ALL SPRINKLER HEADS, DIFFUSERS AND LIGHTS TO BE CENTERED IN THE GWB OR ACB CEILING UNLESS NOTED OTHERWISE
3. GENERAL, HVAC, PLUMBING AND ELECTRICAL CONTRACTORS TO COORDINATE LOCATION OF SPRINKLER HEADS DIFFUSERS AND LIGHTS.
4. SEE ROOM FINISH SCHEDULE FOR CEILING HEIGHTS
5. A.F.F. = ABOVE FINISH FLOOR (MAIN DATUM ELEVATION)

NJDCA Electronic Release Stamp

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GEORGE R. DUTHIE JR., AIA, PP
NJ - 21AI01299200
JASON J. DUBOWITCH, AIA
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STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

Architect

10/10/25
Date

FVHD architects planners
Fraytak Veisz Hopkins Duthie PC
Corporate: 1515 Lower Ferry Road
Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Avenue
Mont Clare - Pennsylvania 19453
FVHDPC.COM

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
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08540

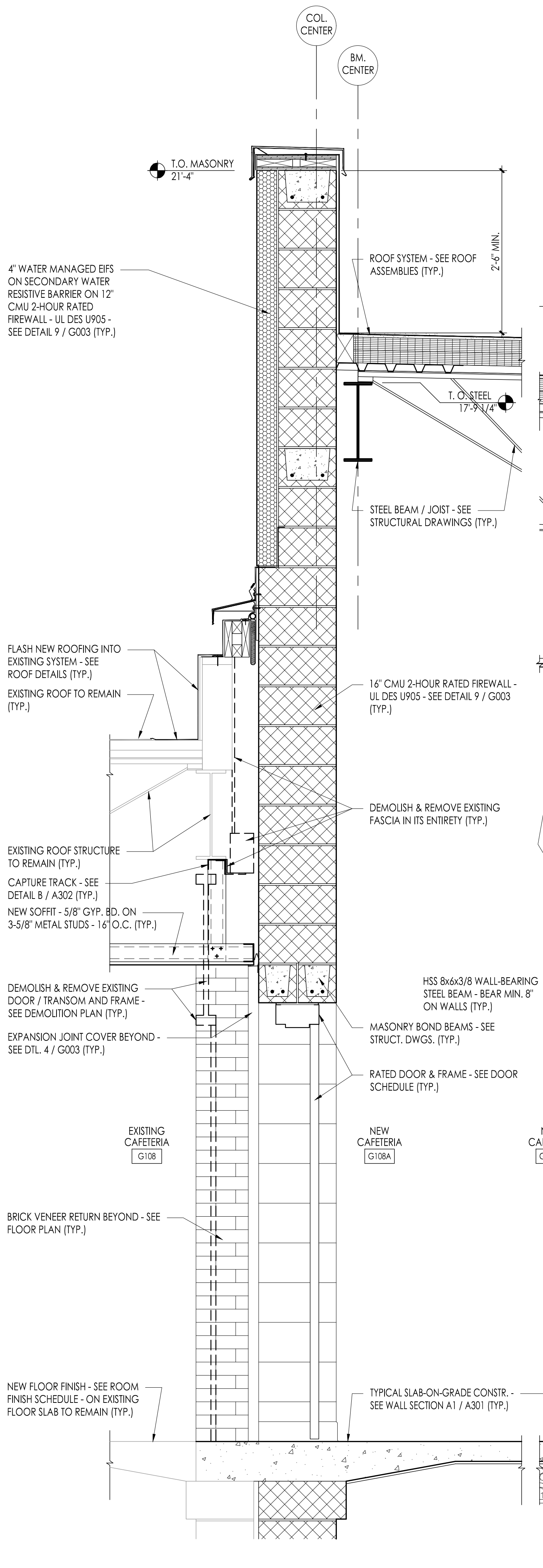
Project Number
5516B
Project Date
10.10.2025
Checked By
GRD
Drawn By
NEH
Scale
1/8" = 1'-0"

Drawing Name
Reflected Ceiling Plan - Block 'A' - Second Floor

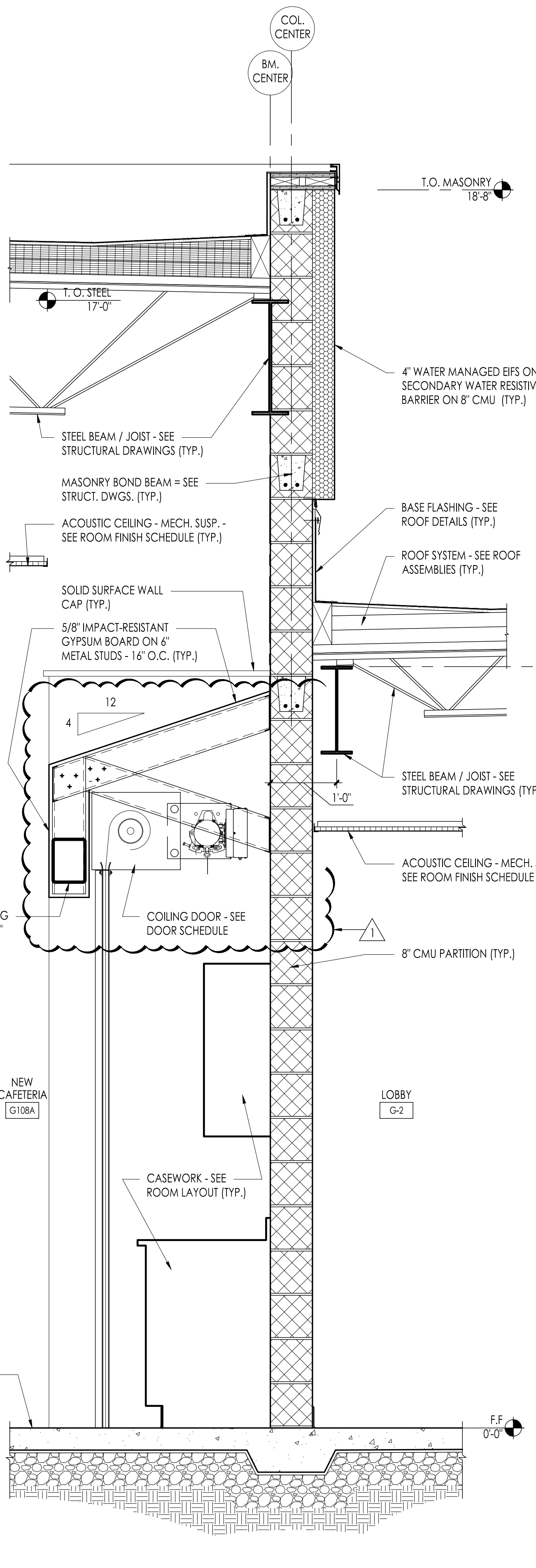
Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
	12.15.25	NJ DCA RESPONSES
1	1.14.26	ADDENDUM 1

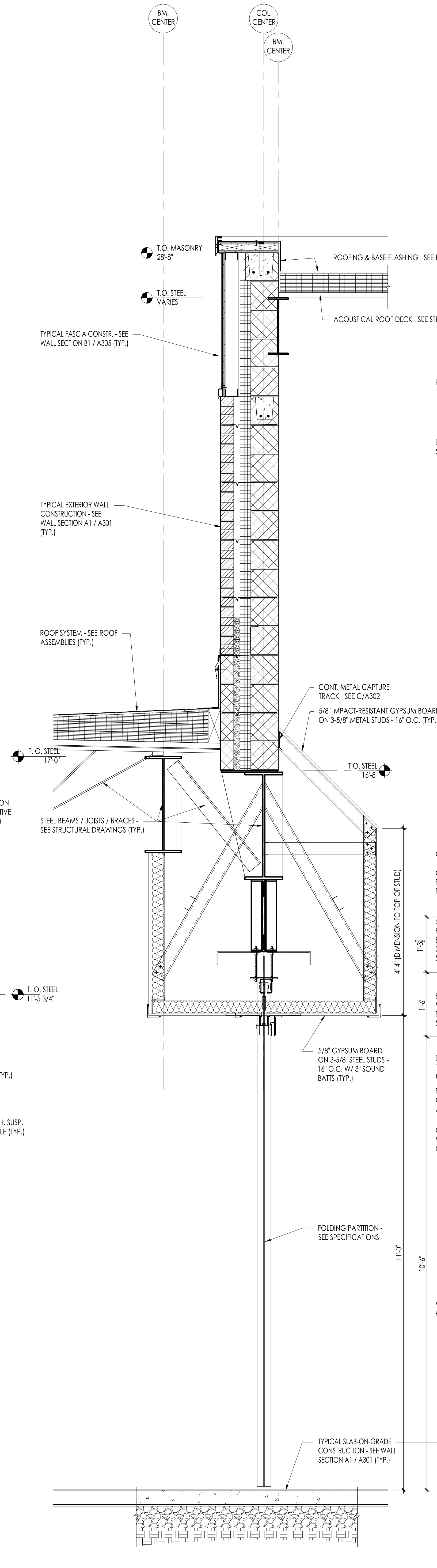
Drawing Number
A107


COL. CENTER
BM. CENTER
T.O. MASONRY 21'-4"
2'-6" MIN.
4" WATER MANAGED EIFS ON SECONDARY WATER RESISTIVE BARRIER ON 12" CMU 2-HOUR RATED FIREWALL - UL DES U905 - SEE DETAIL 9 / G003 (TYP.)
ROOF SYSTEM - SEE ROOF ASSEMBLIES (TYP.)
T. O. STEEL 17'-9 1/4"
STEEL BEAM / JOIST - SEE STRUCTURAL DRAWINGS (TYP.)
FLASH NEW ROOFING INTO EXISTING SYSTEM - SEE ROOF DETAILS (TYP.)
EXISTING ROOF TO REMAIN (TYP.)
16" CMU 2-HOUR RATED FIREWALL - UL DES U905 - SEE DETAIL 9 / G003 (TYP.)
DEMOLISH & REMOVE EXISTING FASCIA IN ITS ENTIRETY (TYP.)
EXISTING ROOF STRUCTURE TO REMAIN (TYP.)
CAPTURE TRACK - SEE DETAIL B / A302 (TYP.)
NEW SOFFIT - 5/8" GYP. BD. ON 3-5/8" METAL STUDS - 16" O.C. (TYP.)
DEMOLISH & REMOVE EXISTING DOOR / TRANSOM AND FRAME - SEE DEMOLITION PLAN (TYP.)
EXPANSION JOINT COVER BEYOND - SEE DTL. 4 / G003 (TYP.)
HSS 8x6x3/8 WALL-BEARING STEEL BEAM - BEAR MIN. 8" ON WALLS (TYP.)
MASONRY BOND BEAMS - SEE STRUCT. DWGS. (TYP.)
RATED DOOR & FRAME - SEE DOOR SCHEDULE (TYP.)
EXISTING CAFETERIA G108
NEW CAFETERIA G108A
BRICK VENEER RETURN BEYOND - SEE FLOOR PLAN (TYP.)
NEW FLOOR FINISH - SEE ROOM FINISH SCHEDULE - ON EXISTING FLOOR SLAB TO REMAIN (TYP.)
TYPICAL SLAB-ON-GRADE CONSTR. - SEE WALL SECTION A1 / A301 (TYP.)

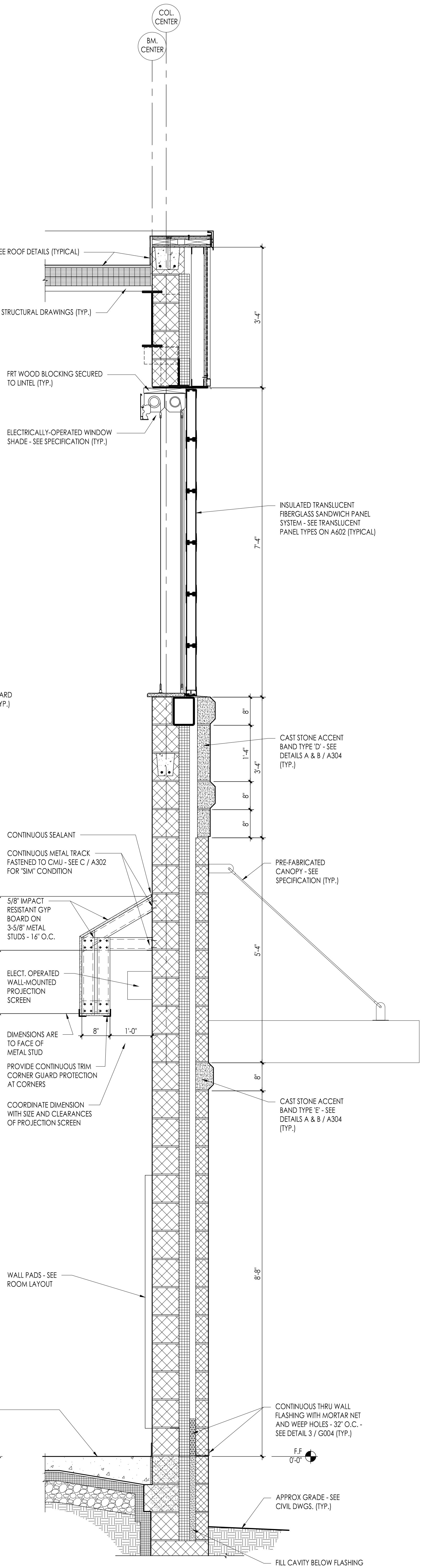
B7


COL. CENTER
BM. CENTER
T.O. MASONRY 18'-8"
T. O. STEEL 17'-0"
4" WATER MANAGED EIFS ON SECONDARY WATER RESISTIVE BARRIER ON 8" CMU (TYP.)
STEEL BEAM / JOIST - SEE STRUCTURAL DRAWINGS (TYP.)
MASONRY BOND BEAM = SEE STRUCT. DWGS. (TYP.)
ACOUSTIC CEILING - MECH. SUSP. - SEE ROOM FINISH SCHEDULE (TYP.)
BASE FLASHING - SEE ROOF DETAILS (TYP.)
ROOF SYSTEM - SEE ROOF ASSEMBLIES (TYP.)
SOLID SURFACE WALL CAP (TYP.)
5/8" IMPACT-RESISTANT GYPSUM BOARD ON 6" METAL STUDS - 16" O.C. (TYP.)
T. O. STEEL 11'-5 3/4"
12
4
STEEL BEAM / JOIST - SEE STRUCTURAL DRAWINGS (TYP.)
1'-0"
ACOUSTIC CEILING - MECH. SUSP. - SEE ROOM FINISH SCHEDULE (TYP.)
COILING DOOR - SEE DOOR SCHEDULE
1
8" CMU PARTITION (TYP.)
NEW CAFETERIA G108A
LOBBY G-2
CASEWORK - SEE ROOM LAYOUT (TYP.)
F.F. 0'-0"

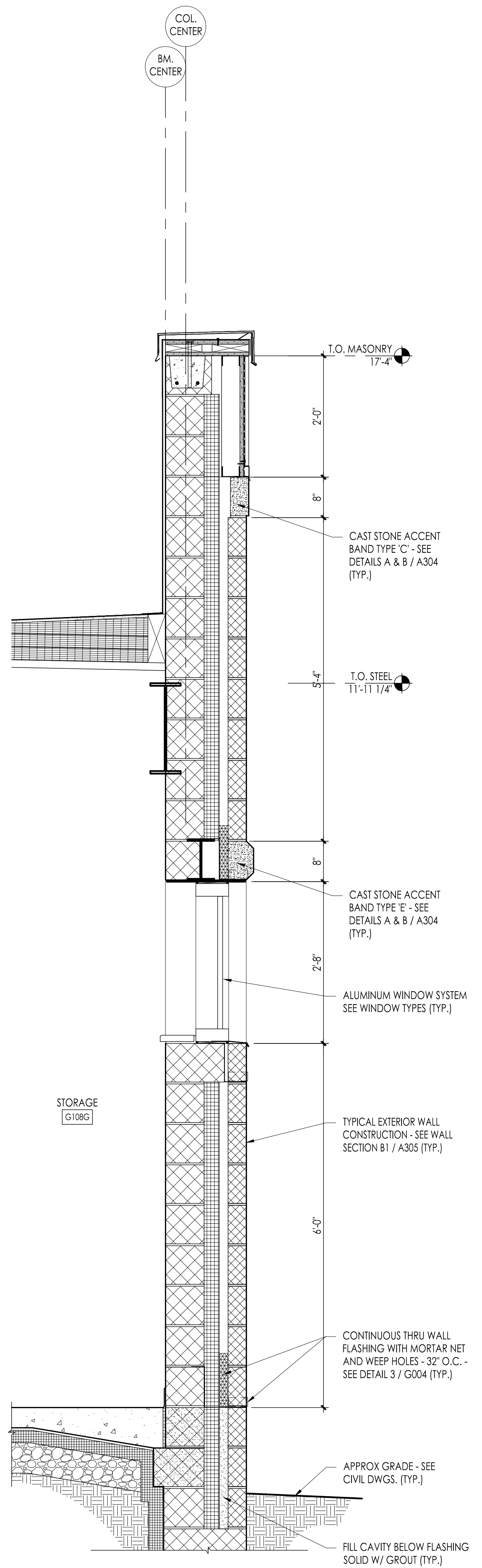
B8


BM. CENTER
COL. CENTER
BM. CENTER
T.O. MASONRY 28'-8"
T.O. STEEL VARIES
ROOFING & BASE FLASHING - SEE ROOF DETAILS (TYPICAL)
ACOUSTICAL ROOF DECK - SEE STRUCTURAL DRAWINGS (TYP.)
TYPICAL FASCIA CONSTR. - SEE WALL SECTION B1 / A305 (TYP.)
TYPICAL EXTERIOR WALL CONSTRUCTION - SEE WALL SECTION A1 / A301 (TYP.)
ROOF SYSTEM - SEE ROOF ASSEMBLIES (TYP.)
CONT. METAL CAPTURE TRACK - SEE C/A302
5/8" IMPACT-RESISTANT GYPSUM BOARD ON 3-5/8" METAL STUDS - 16" O.C. (TYP.)
T. O. STEEL 17'-0"
T.O. STEEL 16'-8"
STEEL BEAMS / JOISTS / BRACES - SEE STRUCTURAL DRAWINGS (TYP.)
4'-4" (DIMENSION TO TOP OF STUD)
5/8" GYPSUM BOARD ON 3-5/8" STEEL STUDS - 16" O.C. W/ 3" SOUND BATTS (TYP.)
FOLDING PARTITION - SEE SPECIFICATIONS
11'-0"
TYPICAL SLAB-ON-GRADE CONSTRUCTION - SEE WALL SECTION A1 / A301 (TYP.)

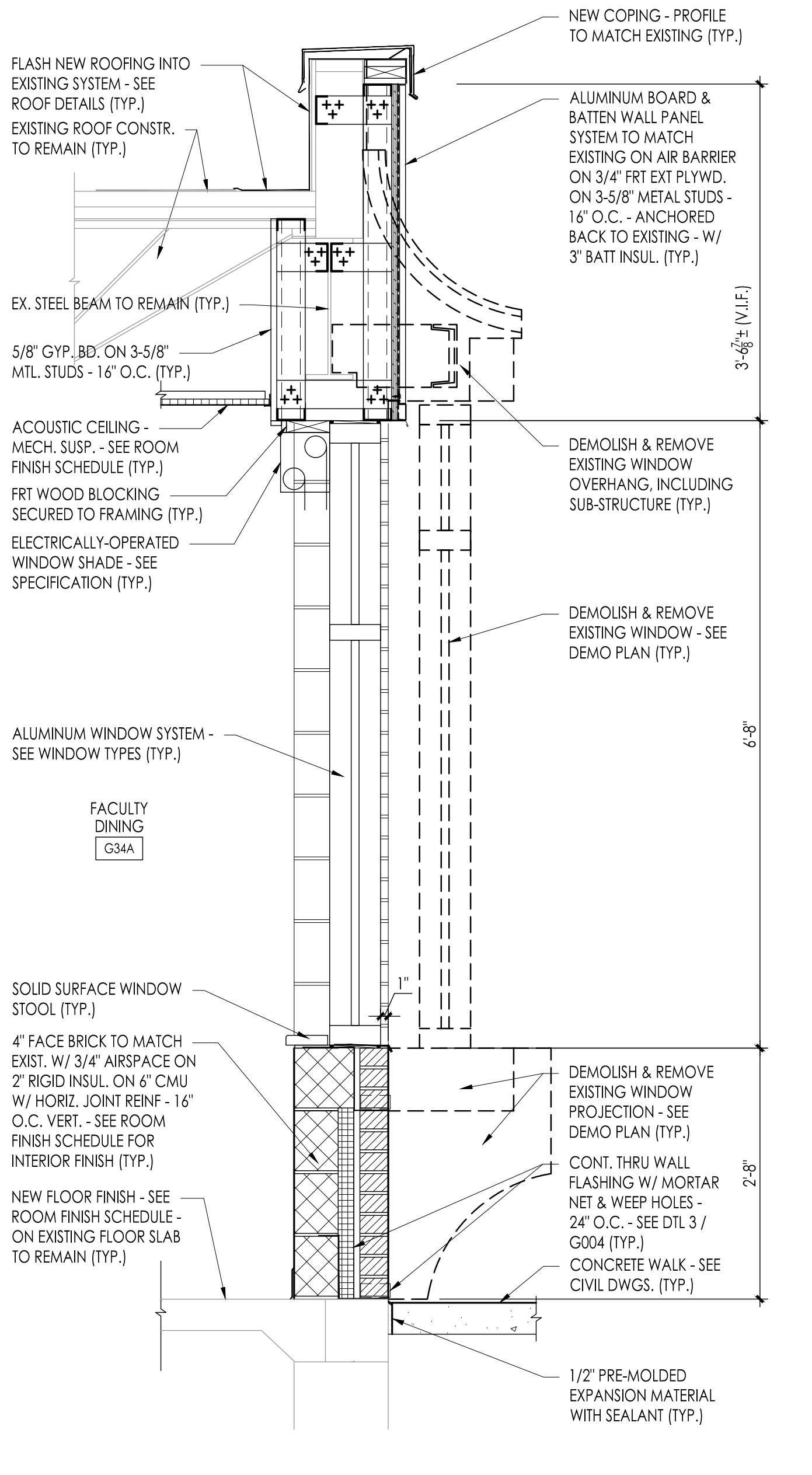
B9


COL. CENTER
BM. CENTER
FRT WOOD BLOCKING SECURED TO LINTEL (TYP.)
ELECTRICALLY-OPERATED WINDOW SHADE - SEE SPECIFICATION (TYP.)
3'-4"
INSULATED TRANSLUCENT FIBERGLASS SANDWICH PANEL SYSTEM - SEE TRANSLUCENT PANEL TYPES ON A602 (TYPICAL)
7'-4"
8"
1'-4"
3'-4"
8"
8"
CAST STONE ACCENT BAND TYPE 'D' - SEE DETAILS A & B / A304 (TYP.)
CONTINUOUS SEALANT
CONTINUOUS METAL TRACK FASTENED TO CMU - SEE C / A302 FOR "SIM" CONDITION
PRE-FABRICATED CANOPY - SEE SPECIFICATION (TYP.)
5/8" IMPACT RESISTANT GYP BOARD ON 3-5/8" METAL STUDS - 16" O.C.
1'-3 3/8"
ELECT. OPERATED WALL-MOUNTED PROJECTION SCREEN
1'-6"
DIMENSIONS ARE TO FACE OF METAL STUD
8"
1'-0"
5'-4"
PROVIDE CONTINUOUS TRIM CORNER GUARD PROTECTION AT CORNERS
COORDINATE DIMENSION WITH SIZE AND CLEARANCES OF PROJECTION SCREEN
8"
CAST STONE ACCENT BAND TYPE 'E' - SEE DETAILS A & B / A304 (TYP.)
10'-6"
WALL PADS - SEE ROOM LAYOUT
8'-8"
CONTINUOUS THRU WALL FLASHING WITH MORTAR NET AND WEEP HOLES - 32" O.C. - SEE DETAIL 3 / G004 (TYP.)
F.F 0'-0"
APPROX GRADE - SEE CIVIL DWGS. (TYP.)
FILL CAVITY BELOW FLASHING SOLID W/ GROUT (TYP.)

B10


COL. CENTER
BM. CENTER
T.O. MASONRY 17'-4"
2'-0"
8"
CAST STONE ACCENT BAND TYPE 'C' - SEE DETAILS A & B / A304 (TYP.)
T.O. STEEL 11'-11 1/4"
5'-4"
8"
CAST STONE ACCENT BAND TYPE 'E' - SEE DETAILS A & B / A304 (TYP.)
2'-8"
ALUMINUM WINDOW SYSTEM SEE WINDOW TYPES (TYP.)
STORAGE G108G
TYPICAL EXTERIOR WALL CONSTRUCTION - SEE WALL SECTION B1 / A305 (TYP.)
6'-0"
CONTINUOUS THRU WALL FLASHING WITH MORTAR NET AND WEEP HOLES - 32" O.C. - SEE DETAIL 3 / G004 (TYP.)
APPROX GRADE - SEE CIVIL DWGS. (TYP.)
FILL CAVITY BELOW FLASHING SOLID W/ GROUT (TYP.)

B11


NEW COPING - PROFILE TO MATCH EXISTING (TYP.)
FLASH NEW ROOFING INTO EXISTING SYSTEM - SEE ROOF DETAILS (TYP.)
EXISTING ROOF CONSTR. TO REMAIN (TYP.)
ALUMINUM BOARD & BATTEN WALL PANEL SYSTEM TO MATCH EXISTING ON AIR BARRIER ON 3/4" FRT EXT PLYWD. ON 3-5/8" METAL STUDS - 16" O.C. - ANCHORED BACK TO EXISTING - W/ 3" BATT INSUL. (TYP.)
3'-6 7/8"± (V.I.F.)
EX. STEEL BEAM TO REMAIN (TYP.)
5/8" GYP. BD. ON 3-5/8" MTL. STUDS - 16" O.C. (TYP.)
ACOUSTIC CEILING - MECH. SUSP. - SEE ROOM FINISH SCHEDULE (TYP.)
FRT WOOD BLOCKING SECURED TO FRAMING (TYP.)
ELECTRICALLY-OPERATED WINDOW SHADE - SEE SPECIFICATION (TYP.)
DEMOLISH & REMOVE EXISTING WINDOW OVERHANG, INCLUDING SUB-STRUCTURE (TYP.)
DEMOLISH & REMOVE EXISTING WINDOW - SEE DEMO PLAN (TYP.)
ALUMINUM WINDOW SYSTEM - SEE WINDOW TYPES (TYP.)
FACULTY DINING G34A
6'-8"
1"
SOLID SURFACE WINDOW STOOL (TYP.)
4" FACE BRICK TO MATCH EXIST. W/ 3/4" AIRSPACE ON 2" RIGID INSUL. ON 6" CMU W/ HORIZ. JOINT REINF - 16" O.C. VERT. - SEE ROOM FINISH SCHEDULE FOR INTERIOR FINISH (TYP.)
DEMOLISH & REMOVE EXISTING WINDOW PROJECTION - SEE DEMO PLAN (TYP.)
CONT. THRU WALL FLASHING W/ MORTAR NET & WEEP HOLES - 24" O.C. - SEE DTL 3 / G004 (TYP.)
2'-8"
NEW FLOOR FINISH - SEE ROOM FINISH SCHEDULE - ON EXISTING FLOOR SLAB TO REMAIN (TYP.)
CONCRETE WALK - SEE CIVIL DWGS. (TYP.)
1/2" PRE-MOLDED EXPANSION MATERIAL WITH SEALANT (TYP.)

B12

NJDCA Electronic Release Stamp

FVHD architects planners
Fraytak Veisz Hopkins Duthie PC

Corporate: 1515 Lower Ferry Road
Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Avenue
Mont Clare - Pennsylvania 19453

F V H D P C . C O M

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Architect

10/10/25
Date

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

Project Number
5516B

Project Date
10.10.2025

Checked By
GRD

Drawn By
NEH

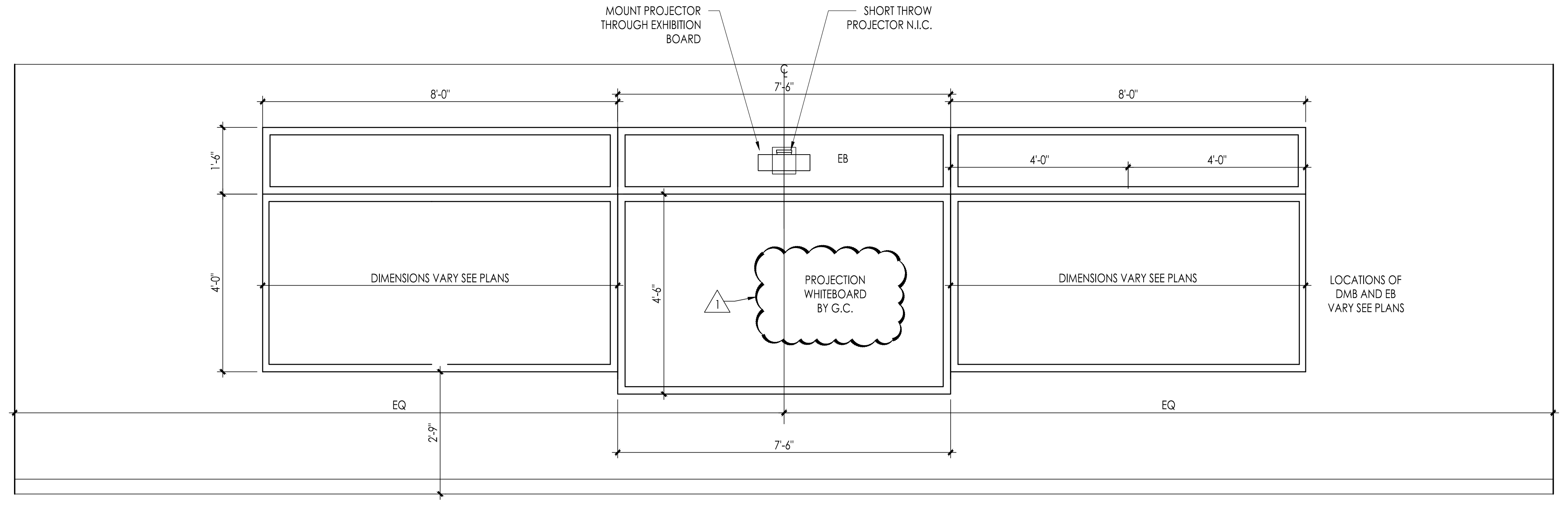
Scale
AS NOTED

Drawing Name
Wall Sections

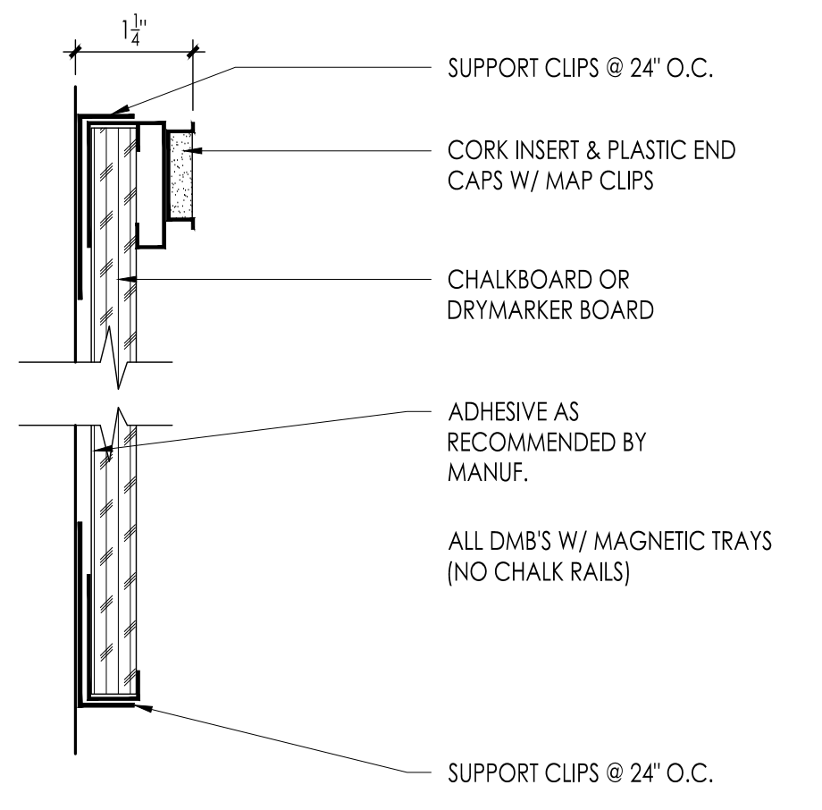
Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
1	1.14.26	ADDENDUM 1

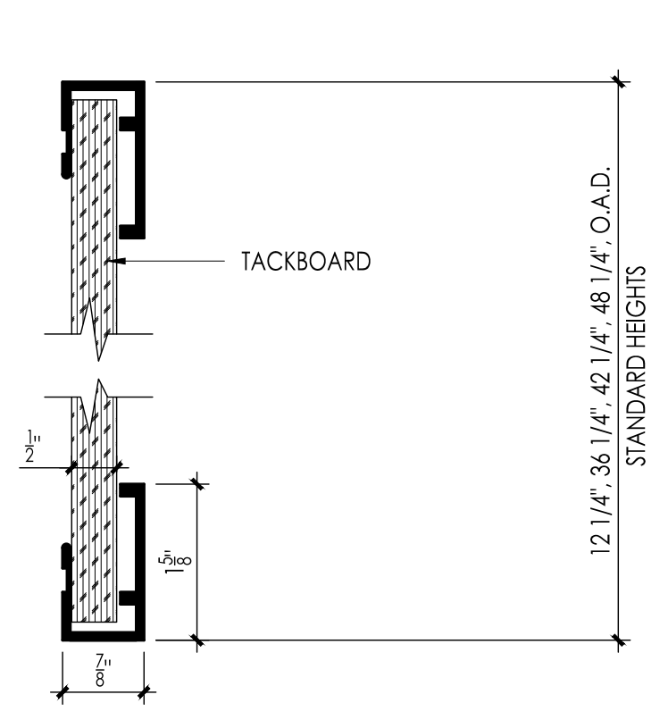
Drawing Number
A306


MOUNT PROJECTOR THROUGH EXHIBITION BOARD
SHORT THROW PROJECTOR N.I.C.
8'-0"
7'-6"
8'-0"
1'-6"
EB
4'-0"
4'-0"
4'-0"
DIMENSIONS VARY SEE PLANS
4'-6"
1
PROJECTION WHITEBOARD BY G.C.
DIMENSIONS VARY SEE PLANS
LOCATIONS OF DMB AND EB VARY SEE PLANS
EQ
EQ
2'-9"
7'-6"

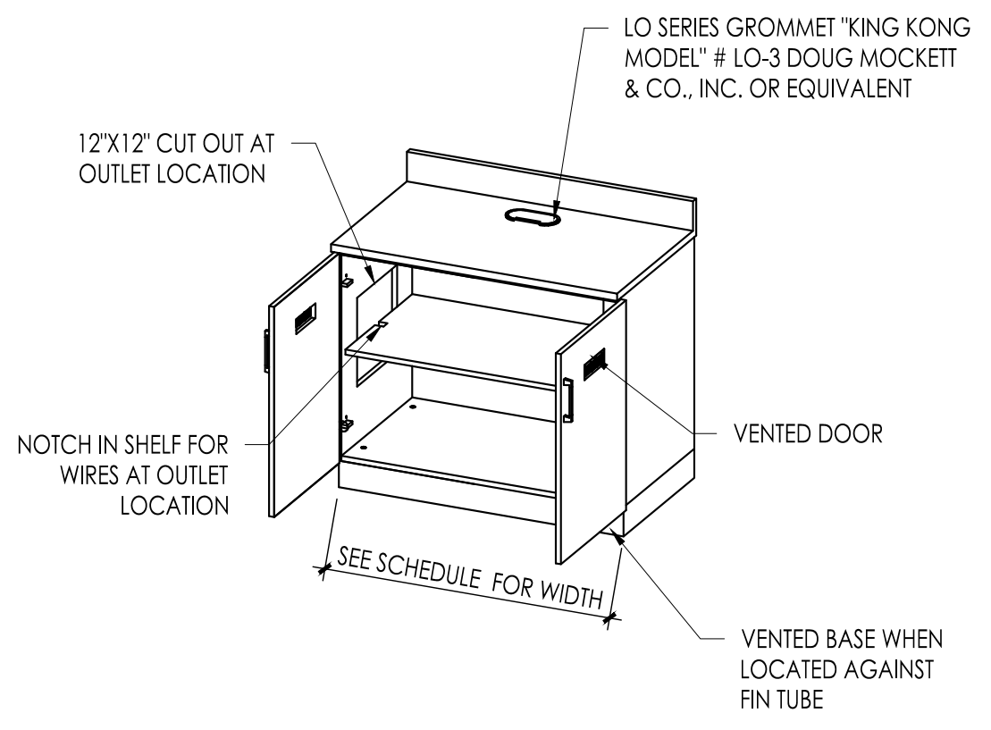
A TYP. TEACHING WALL ELEVATION
1/2" = 1-0'


1¼"
SUPPORT CLIPS @ 24" O.C.
CORK INSERT & PLASTIC END CAPS W/ MAP CLIPS
CHALKBOARD OR DRYMARKER BOARD
ADHESIVE AS RECOMMENDED BY MANUF.
ALL DMB'S W/ MAGNETIC TRAYS (NO CHALK RAILS)
SUPPORT CLIPS @ 24" O.C.

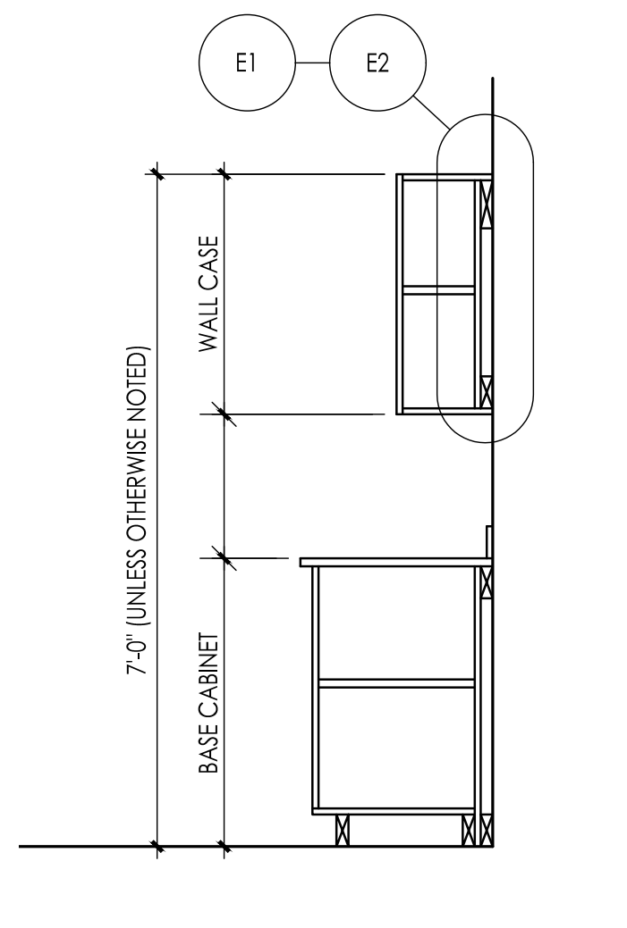
B TYP. MARKERBOARD SECTION DETAIL
6" = 1'-0"



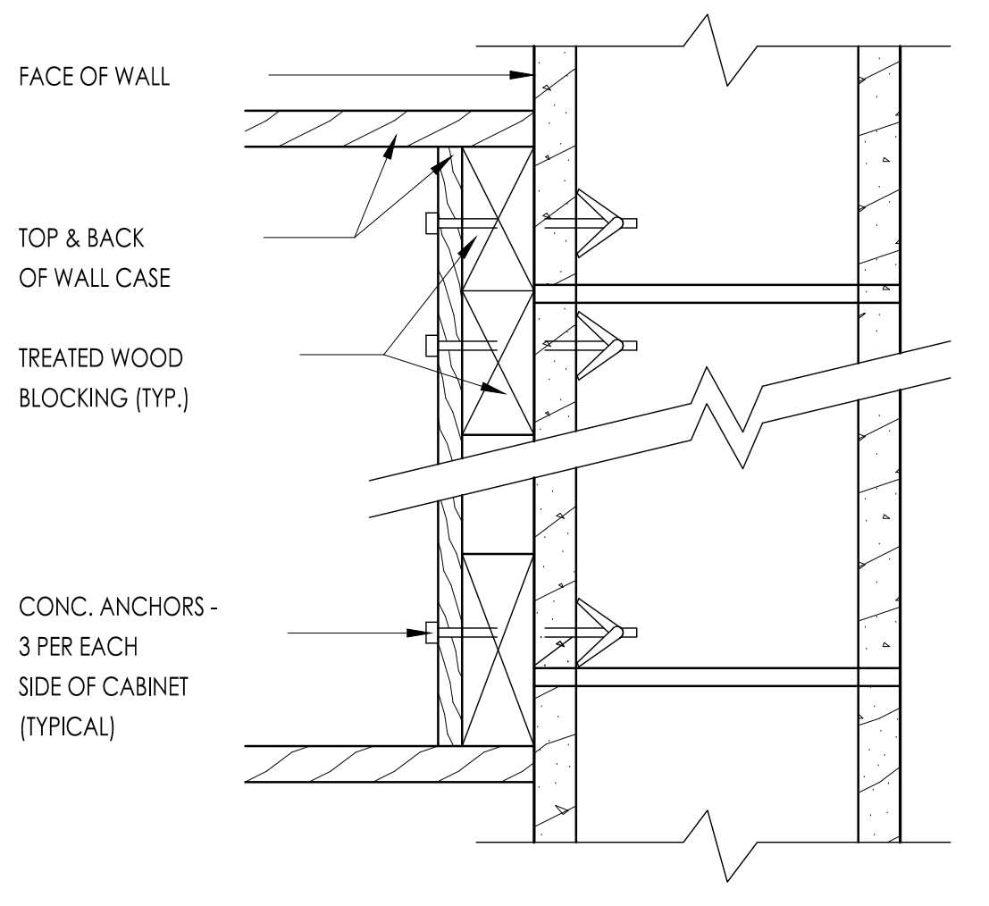
C TYP. EXHIBITION BOARD SECTION DETAIL
6" = 1'-0"


LO SERIES GROMMET "KING KONG MODEL" # LO-3 DOUG MOCKETT & CO., INC. OR EQUIVALENT
12"X12" CUT OUT AT OUTLET LOCATION
NOTCH IN SHELF FOR WIRES AT OUTLET LOCATION
VENTED DOOR
SEE SCHEDULE FOR WIDTH
VENTED BASE WHEN LOCATED AGAINST FIN TUBE

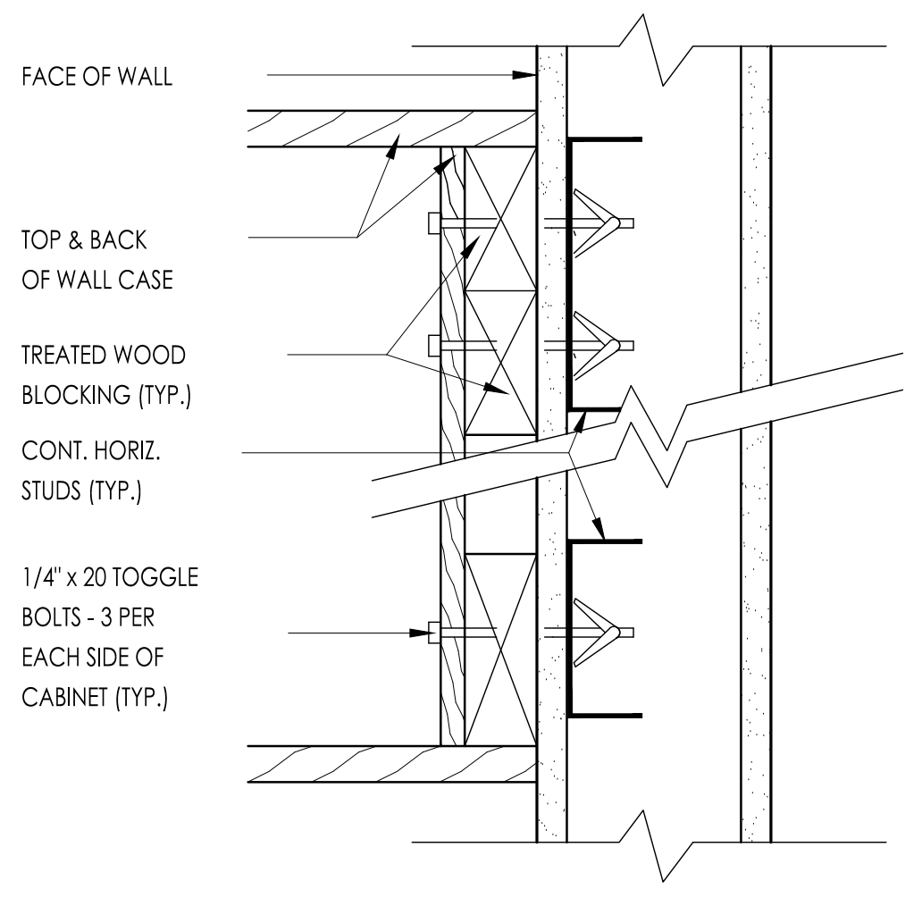
D AV CABINET DETAIL
1/2" = 1-0'



E Casework Detail
Scale: 1/2" = 1'-0"


FACE OF WALL
TOP & BACK OF WALL CASE
TREATED WOOD BLOCKING (TYP.)
CONC. ANCHORS - 3 PER EACH SIDE OF CABINET (TYPICAL)

E1 Wall Cabinet Mounting Detail - CMU Wall
Scale: 1/2" = 1'-0"


FACE OF WALL
TOP & BACK OF WALL CASE
TREATED WOOD BLOCKING (TYP.)
CONT. HORIZ. STUDS (TYP.)
1/4" x 20 TOGGLE BOLTS - 3 PER EACH SIDE OF CABINET (TYP.)

E2 Wall Cabinet Mounting Detail - Stud Wall
Scale: 1/2" = 1'-0"

NOTE:

ALL FURNITURE AND EQUIPMENT WITHOUT THE SYMBOL ⬡ OR MARKED (N.I.C.) IS NOT IN CONTRACT UNLESS NOTED OTHERWISE. SEE EQUIPMENT SCHEDULE FOR EQUIPMENT MARKED WITH THE SYMBOL ⬡

* EQUIPMENT CONTRACT NOTE:

THE EQUIPMENT SUB-CONTRACTOR(S) SHALL BE (A) SUBCONTRACTOR(S) OF THE GENERAL CONSTRUCTION WORK CONTRACTOR.

NOTE:

PROVIDE A MINIMUM 18" BARRIER-FREE MANEUVERING CLEARANCE AT THE PULL SIDE OF ALL DOORS ADJACENT TO CABINETS, SHELVING. CORRIDOR LOCKERS, ETC.

GENERAL ENLARGED FLOOR PLAN NOTES:

1. ALL FURNITURE AND EQUIPMENT NOT TAGGED, NOT SCHEDULED, OR MARKED (NIC) IS NOT IN CONTRACT UNLESS NOTED OTHERWISE. SEE EQUIPMENT SCHEDULE FOR EQUIPMENT MARKED WITH THE SYMBOL.
2. REFER TO A100 SERIES FLOOR PLANS FOR ROOM LOCATION & ROOM NUMBERS.
3. REFER TO A100 SERIES FLOOR PLANS TO DETERMINE WHICH ROOMS ARE OPPOSITE HAND AND/OR SIMILAR TO ROOM SHOWN.
4. PROVIDE A MINIMUM 18" BARRIER-FREE MANEUVERING CLEARANCE AT THE PULL SIDE OF ALL DOORS ADJACENT TO CABINETS, SHELVING, CORRIDOR LOCKERS, ETC.
5. PROVIDE A MINIMUM 12" BARRIER-FREE MANEUVERING CLEARANCE AT THE PUSH SIDE OF ALL DOORS ADJACENT TO CABINETS, SHELVING, CORRIDOR LOCKERS, ETC.
6. ALL FURNITURE AND EQUIPMENT SHOWN DOTTED AND/OR INDICATED AS (N.I.C.) IS NOT IN CONTRACT.
7. THE EQUIPMENT SUB-CONTRACTOR(S) SHALL BE (A) SUBCONTRACTOR(S) OF THE GENERAL CONSTRUCTION WORK CONTRACTOR.

GENERAL CASEWORK NOTES:

1. CATALOG NUMBERS REFER TO MOST CURRENT CAMPBELL RHEA CASEWORK CATALOG AND JUST MANUFACTURING CATALOG UNLESS OTHERWISE NOTED. FOR REFERENCE ONLY.
2. ALL CASEWORK DOORS AND DRAWERS TO HAVE LOCKS KEYED ALIKE PER ROOM AND MASTER KEYED.
3. ALL TOPS SHALL BE 1/2" SOLID SURFACE ON 1/2" PLYWOOD (UNLESS NOTED OTHERWISE). LAMINATE TOPS ARE NOT ACCEPTABLE AND WILL BE REJECTED.
4. ALL BACKSPLASHES SHALL BE 1/2" SOLID SURFACE (UNLESS NOTED OTHERWISE).
5. ALL FURNITURE AND EQUIPMENT SHOWN DOTTED AND/OR INDICATED AS (N.I.C.) IS NOT IN CONTRACT.
6. THE CASEWORK & EQUIPMENT SUB-CONTRACTOR(S) SHALL TURN OVER TO THE PLUMBING AND ELECTRICAL SUB-CONTRACTOR(S) IN A PACKAGE, ALL SINKS, FIXTURES, FAUCETS, TAILPIECES, STRAINERS, ETC., AND ELECTRICAL DEVICES, NIPPLES AND LOCKNUTS, ETC., FOR INSTALLATION AND FINAL CONNECTION.
7. THE CASEWORK AND EQUIPMENT SUB-CONTRACTOR SHALL PROVIDE AN ITEMIZED LIST AND A DESIGNATED SITE LOCATION FOR THE TRANSFER OF THE MATERIALS REFERENCED IN NOTE 6 TO THE PLUMBING AND ELECTRICAL SUB-CONTRACTORS. THE LIST SHALL HAVE A DESCRIPTION OF THE ITEMS AND QUANTITY ALONG WITH A SIGN-OFF LINE FOR THE PLUMBING AND ELECTRICAL SUB-CONTRACTORS. A COPY OF THE SIGNED LIST IS TO BE SUBMITTED TO THE ARCHITECT / OWNER PRIOR TO BILLING FOR THIS EQUIPMENT.
8. EQUIPMENT SUB-CONTRACTOR SHALL MAKE SINK CUT-OUTS.
9. ALL DUPLEX OUTLETS SHALL BE G.F.C.I. UNLESS NOTED OTHERWISE AND SHALL BE TAMPER-RESISTANT.
10. SINK CABINETS SHALL BE INSTALLED BEFORE THE INSTALLATION OF ADJACENT CABINETS.
11. ALL CONTRACTORS TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT IN WRITTEN FORM OF ANY DISCREPANCIES.
12. PROVIDE ALL FILLERS AS REQUIRED. FILLERS AT BASE CABINETS SHALL BE AT FRONT OF CABINET AND COUNTERTOP SHALL BE CONTINUOUS OVER FILLER PANEL. FILLERS AT TALL CABINETS SHALL BE AT FRONT AND TOP OF CABINET. FILLERS AT WALL CASES SHALL BE AT FRONT, TOP AND BOTTOM OF CABINET. FINISH TO MATCH CASEWORK.
13. ALL PRINTERS AND COMPUTERS ARE N.I.C. (TYPICAL)
14. RUBBER BASE ON ALL CASEWORK BY G.C. (TYPICAL)
15. ALL SCHEDULED EQUIPMENT MANUFACTURERS ARE "BASIS OF DESIGN", OR APPROVED EQUAL.
16. SEE DETAILS A/ A400 FOR MOUNTING OF DRYMARKER BOARDS AND EXHIBITION BOARDS.

SINK NOTE 'B': (ITEM #27)

FOR NON-BARRIER-FREE SINKS IN SCIENCE CLASSROOMS & PREP ROOMS

9734D EPOXY RESIN SINK, SINGLE COMPARTMENT, 18" x 15" x 11"d., WITH CORNER DRAIN. FURNISH COMPLETE WITH HOT & COLD WATER MIXING GOOSENECK FAUCET (CAMPBELL-RHEA # 9500) WITH VACUUM BREAKER, AERATOR AND WRIST BLADE LEVER HANDLES (# 9604), POLYPROPYLENE SINK OUTLET (# 9688) ,POLYPROPYLENE TAILPIECE (# 9976) AND REMOVABLE STRAIGHT HOSE CONNECTER.

SINK, FAUCET, TAILPIECE AND OUTLET TO BE SUPPLIED BY EQUIPMENT SUBCONTRACTOR. THE PLUMBING SUBCONTRACTOR SHALL PROVIDE AND INSTALL ALL TRAPS, VALVES, WASTE LINES, ETC. AS REQUIRED TO MAKE THE SYSTEM FULLY FUNCTIONAL. THE PLUMBING SUBCONTRACTOR SHALL MAKE THE FINAL PLUMBING CONNECTIONS REQUIRED TO MAKE THE SYSTEM FULLY FUNCTIONAL. SEE GENERAL CASEWORK NOTES #6 & #7.

SINK NOTE 'A': (ITEM 51)

FOR B/F SINK IN SCIENCE CLASSROOMS & PREP ROOMS

9709D EPOXY RESIN SINK, CAMPBELL-RHEA OR APPROVED EQUAL, SINGLE COMPARTMENT, 18" x 15" x 6"d., WITH CORNER DRAIN. FURNISH COMPLETE WITH HOT & COLD WATER MIXING GOOSENECK FAUCET (CAMPBELL-RHEA # 9500) WITH VACUUM BREAKER, AERATOR AND WRIST BLADE LEVER HANDLES (# 9604), POLYPROPYLENE SINK OUTLET (# 9688),POLYPROPYLENE TAILPIECE (# 9976) AND REMOVABLE STRAIGHT HOSE CONNECTER .

SINK, FAUCET, TAILPIECE AND OUTLET TO BE SUPPLIED BY EQUIPMENT SUBCONTRACTOR. THE PLUMBING SUBCONTRACTOR SHALL PROVIDE AND INSTALL ALL TRAPS, VALVES, WASTE LINES, ETC. AS REQUIRED TO MAKE THE SYSTEM FULLY FUNCTIONAL. THE PLUMBING SUBCONTRACTOR SHALL MAKE THE FINAL PLUMBING CONNECTIONS REQUIRED TO MAKE THE SYSTEM FULLY FUNCTIONAL. SEE GENERAL CASEWORK NOTES #6 & #7.

SINK NOTE 'D': (ITEM #79)

SL-ADA-1921-A-GR STAINLESS STEEL SINK, JUST MANUFACTURING OR APPROVED EQUAL, "THE STYLIST GROUP A" SERIES, TYPE 304, WHEELCHAIR ACCESSIBLE SINK, SINGLE COMPARTMENT, SELF-RIM, 18 GAUGE STAINLESS STEEL, 19" x 21" x 6" DEEP, DRAIN CENTER, SINK UNDERCOATED W/ SOUND DEADENING MATERIAL. FURNISH COMPLETE WITH JUST FAUCET (#J-1174-KS) CONCEALED HOT & COLD WATER MIXING FAUCET WITH SWIVEL GOOSENECK SPOUT, AERATOR AND WRIST BLADE HANDLES. INCLUDE ONE JUST OFFSET DRAIN ASSEMBLY (#J-ADA-35-FS) W/ DRAIN INSULATING KIT (#J-ADA-150) W/ STAINLESS STEEL FLAT STRAINER & 4" LONG STAINLESS STEEL TAILPIECE (#J-35-SSF).

SINK, FAUCET, STRAINER AND TAILPIECE TO BE SUPPLIED BY EQUIPMENT CONTRACTOR. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL TRAPS, VALVES, WASTE LINES, ETC. AS REQUIRED TO MAKE THE SYSTEM FULLY FUNCTIONAL. THE PLUMBING CONTRACTOR SHALL MAKE THE FINAL PLUMBING CONNECTIONS REQUIRED TO MAKE THE SYSTEM FULLY FUNCTIONAL. SEE GENERAL CASEWORK NOTES # 6 & 7.

SCIENCE CASEWORK NOTES:

1. ALL SINKS IN THE SCIENCE CLASSROOMS, SCIENCE LABS AND PREP ROOMS ARE EPOXY RESIN WITH EPOXY RESIN TAILPIECE & DISK STRAINER UNLESS NOTED OTHERWISE. THIS EQUIPMENT IS SUPPLIED BY THE CASEWORK & EQUIPMENT SUB-CONTRACTOR. SEE GENERAL CASEWORK NOTES 6 & 7. THE PLUMBING CONTRACTOR SHALL SUPPLY AND INSTALL ALL TRAPS, VALVES, ETC. AND SHALL MAKE ALL FINAL CONNECTIONS TO ALL WASTE/VENTS, WATER AND GAS LINES AS REQUIRED TO MAKE THE SYSTEM FULLY FUNCTIONAL.

2. IN ALL SCIENCE CLASSROOMS, SCIENCE LABS AND PREP ROOMS, ALL COUNTERTOPS, INSTRUCTOR AND STUDENT LAB STATION TOPS SHALL BE 1" THICK EPOXY RESIN BY THE CASEWORK & EQUIPMENT SUB-CONTRACTOR UNLESS NOTED OTHERWISE. AT ALL COUNTERTOPS WITH SINKS, USE A BLACK CAULK JOINT AT TOP OF SINK AND COUNTERTOP, ALL BY THE CASEWORK & EQUIPMENT SUB-CONTRACTOR. PROVIDE OVERHANG AS REQUIRED BY MANUFACTURER.

CASEWORK SCHEDULE

ITEM NO.	MANUFACTURER	CAT. NO.	DESCRIPTION	WIDTH	DEPTH	HEIGHT	REMARKS
1	CAMPBELL RHEA	6954-A	TEACHER WARDROBE CABINET	42"	22½"	84"	DBL DOOR. L-1 FIXED SHELF, 3 ADJUSTABLE SHELVES. R-1 HANGER ROD, 1 FIXED SHELF
2	CAMPBELL RHEA	5690	TALL STORAGE	42"	22½"	84"	DBL DOOR. 1 FIXED SHELF, 4 ADJUSTABLE SHELVES
2A	CAMPBELL RHEA	5690*	TALL STORAGE	40"	22-1/2"	84"	DBL DOOR. 1 FIXED SHELF, 4 ADJUSTABLE SHELVES
3	CAMPBELL RHEA	5688	TALL STORAGE	35-1/4"	22½"	84"	DBL DOOR. 1 FIXED SHELF, 4 ADJUSTABLE SHELVES
4	CAMPBELL RHEA	5516	TALL STORAGE	27"	22½"	84"	SINGLE DOOR. 1 FIXED SHELF, 4 ADJUSTABLE SHELVES
5	TMI	W2052-27-30-12	UPPER CABINET	27"	12"	30"	DBL DOOR, 1 ADJ. SHELF
6	TMI	W2001-12-30-12	UPPER CABINET	12"	12"	30"	DBL DOOR, 1 ADJ. SHELF
7	TMI	W2012-39-18-12	UPPER CABINET	39"	12"	18"	DBL DOOR
7A	TMI	W2002 -36-18-12	UPPER CABINET	36"	12"	18"	DBL DOOR
8	TMI	W2052-36-30-12	UPPER CABINET	36"	12"	30"	DBL DOOR. 1 ADJUSTABLE SHELF
8A	TMI	W2052-30-30-12	UPPER CABINET	30"	12"	30"	DBL DOOR. 1 ADJUSTABLE SHELF
9	TMI	B2545-36-22-24	ADA SINK BASE CABINET	36"	24"	22-1/2"	ADA SINK BASE CABINET
10	TMI	W1000-36-16-12	OPEN FACE UPPER CABINET	36"	12"	16"	OPEN FRONT, MODIFIED DEPTH AND HEIGHT
11	TMI	W2062-45-30-12	UPPER CABINET	45"	12"	30"	DBL DOOR. 2 ADJUSTABLE SHELVES, 1 VERTICAL DIVIDER
12	TMI	T2052-36-84-24	TALL STORAGE LAMINATE	36"	24"	84"	DBL DOOR. 1 FIXED SHELF, 4 ADJUSTABLE SHELVES
13	TMI	D1122-27-34-24	BASE CABINET	27"	24"	34"	DBL DOOR. 1 ADJ SHELF, 1 6" HIGH FULL WIDTH DRAWER
14	TMI	D112-36-34-24	BASE CABINET	36"	24"	34"	DBL DOOR. 1 ADJ SHELF, 1 6" HIGH FULL WIDTH DRAWER
14A	TMI	D112-30-34-24	BASE CABINET	30"	24"	34"	DBL DOOR. 1 ADJ SHELF, 1 6" HIGH FULL WIDTH DRAWER
15	CAMPBELL RHEA	6774A	SAFETY CENTER	35-1/4"	22-1/2"	84"	BARRIER- FREE EYE WASH FOUNTAIN, EMERGENCY SHOWER HEAD W/ PULL CHAIN, FIRE BLANKET, FIRE EXTINGUISHER AND FIRST AID KIT.
16	CAMPBELL RHEA	4706	UPPER CABINET	35-1/4"	16"	23-3/4"	DBL DOOR, 1 ADJ SHELVES
17	CAMPBELL RHEA	4412	UPPER CABINET	15-5/16"	16"	23-3/4"	SINGLE DOOR 1 ADJ SHELF, DOOR HINGED RIGHT
18	CAMPBELL RHEA	4492	UPPER CABINET	15-5/16"	16"	23-3/4"	SINGLE DOOR 1 ADJ SHELF, DOOR HINGED LEFT
19	CAMPBELL RHEA	4494	UPPER CABINET	18"	16"	23-3/4"	SINGLE DOOR 1 ADJ SHELF, HINGED LEFT
20	CAMPBELL RHEA	4684	UPPER CABINET	41-1/4"	16"	16-3/16"	DOUBLE DOOR, 1 ADJ SHELF
21	CAMPBELL RHEA	2334	BASE CABINET	18"	22-1/2"	35"	DOOR HINGED RIGHT
21A	CAMPBELL RHEA	2334A	BASE CABINET	18"	22-1/2"		DOOR HINGED LEFT
22	CAMPBELL RHEA	1550	BASE CABINET	35-1/4"	22-1/2"	35"	DOUBLE DOOR BASE CABINET W/ 1 ADJ SHELF AND ONE DRAWER
23	CAMPBELL RHEA	1262	BASE CABINET	15-1/16"	22-1/2"	35"	4 DRAWERS
24	CAMPBELL RHEA	1212	BASE CABINET	15-1/16"	22-1/2"	35"	BASE CABINET SINGLE DOOR
25	CAMPBELL RHEA	4414	UPPER CABINET	18"	16"	23-3/4"	SINGLE DOOR, 1 ADJ SHELF, HINGED RIGHT
26	CAMPBELL RHEA	*1214	BASE CABINET	18"	22-1/2"	35"	SINGLE DOOR, 1 ADJ SHELF HINGED LEFT
27	CAMPBELL RHEA	9734D	DROP IN EPOXY RESIN SINK	18"	15"	11"	SEE SINK NOTE B
28	CAMPBELL RHEA	9404	90 DEGREE DOUBLE GAS COCK				
29	CAMPBELL RHEA	1218	BASE CABINET	24"	22-1/2"	35"	SINGLE DOOR, 1 ADJ SHELF, DOOR HINGED RIGHT
30	CAMPBELL RHEA	4418	UPPER CABINET	24"	16"	23-3/4"	SINGLE DOOR, 1 ADJ SHELF, DOOR HINGED RIGHT
31	CAMPBELL RHEA	8760	ADA CLOSURE PANEL	44"	22-1/2"	33"	
31A	CAMPBELL RHEA	8760	ADA CLOSURE PANEL	36	22-1/2"	33"	
31B	CAMPBELL RHEA	8760	ADA CLOSURE PANEL	42"	22-1/2"	33"	
31C	CAMPBELL RHEA	8760	ADA CLOSURE PANEL	48"	22-1/2"	33"	
33	CAMPBELL RHEA	6660	PHENOLIC PEGBOARDS	22-1/2"	1"	20"	INCLUDE 6679-A DRIP THROUGH
34	CAMPBELL RHEA	2366	BASE CABINET	30"	22-1/2	35"	SINK BASE CABINET
35	CAMPBELL RHEA	1264	BASE CABINET	18"	22-1/2"	35"	4 DRAWERS
36	CAMPBELL RHEA	3755D	BASE CABINET	36"	22-1/2"	32-1/2"	DOUBLE DOORS, 1 ADJ SHELF
37	CAMPBELL RHEA	3605	BASE CABINET	18"	22-1/2"	32-1/2"	SINGLE DOOR HINGED RIGHT
38	CAMPBELL RHEA	4680	UPPER CABINET	30"	16"	16-3/16"	DOUBLE DOOR 1 ADJ. SHELF
38A	CAMPBELL RHEA	4668	UPPER CABINET	30"	12"	16-3/16"	DOUBLE DOOR 1 ADJ. SHELF
39	CAMPBELL RHEA	7104*	TEACHER DEMO STATION	48"	30"	34"	MODIFIED HEIGHT*, 18" W BASE CABINET W/ 3 DRAWERS, 24" W KNEE SPACE AND FILL HEIGHT MODESTY PANEL
40	CAMPBELL RHEA	6779*	FLAMMABLE STORAGE CABINET	33"	22"	36"	UNDER COUNTER, MODIFIED HEIGHT
41	CAMPBELL RHEA	8614*	ACID STORAGE	30"	18-1/2"	32-1/4"	UNDER COUNTER MODIFIED HEIGHT
42	CAMPBELL RHEA	3685C	BASE CABINET	30"	22-1/2"	33"	1 DRAWER, DOUBLE DOORS, 1 ADJ. SHELF
43	CAMPBELL RHEA	6955A	TEACHER WARDROBE	35-14"	22-1/2"	84"	DBL DOOR. L-1 FIXED SHELF, 3 ADJUSTABLE SHELVES. R-1 HANGER ROD, 1 FIXED SHELF
44	CAMPBELL RHEA	6942B	MICROSCOPE CABINET	35-1/4"	22-1/2"	84"	DOUBLE DOORS, 4 FIXED SHELVES HOLDS 20 MICROSCOPES
45	CAMPBELL RHEA	2506	BASE CABINET	18"	22-1/2"	29"	BOX, FILE DRAWERS
46	CAMPBELL RHEA	7076B	KNEE SPACE COMPONENT	44"	22"	29"	LEGS LEFT
46A	CAMPBELL RHEA	7076B	KNEE SPACE COMPONENT	44"	22"	29"	LEGS RIGHT
47	CAMPBELL RHEA	4694	WALL CABINET	35-1/4"	12"	23-3/4"	DOUBLE DOOR 1 ADJ SHELF
48	CAMPBELL RHEA	4692	WALL CABINET	30"	12"	23-3/4"	DOUBLE DOOR, 1 ADJ. SHELF
49	CAMPBELL RHEA	4670	WALL CABINET	35-1/4"	12"	16-3/16"	DOUBLE DOOR 1 ADJ.SHELF
50	WATERSAVER	EW806	EYE WASH	-	-	-	COUNTER MOUNTED
51	CAMPBELL RHEA	9709D	BARRIER-FREE DROP IN EPOXY RESIN SINK	18"	15"	6"	SEE SINK NOTE A
52	CAMPBELL RHEA	F-100-48G5-ADA	BARRIER-FREE FUME HOOD	48"	93-1/4"	33-1/4"	SEE DETAIL 12/A403
53	CAMPBELL RHEA	2642	AV CABINET	30"	22-1/2"	29"	SEE DETAIL D/A400
54	CAMPBELL RHEA	4718	WALL CABINET	35-1/4"	12"	31-1/4"	DOUBLE DOOR, 2 ADJ. SHELVES
55	CAMPBELL RHEA	3617	BASE CABINET	21"	22-1/2"	32-1/2"	3 DRAWERS
55A	CAMPBELL RHEA	3616	BASE CABINET	18"	22-1/2"	32-1/2"	3 DRAWERS
56	CAMPBELL RHEA	4712	WALL CABINET	24"	12"	31-1/4"	DOUBLE DOOR, 2 ADJ. SHELVES
57	CAMPBELL RHEA	3685E	BASE CABINET	41-1/4"	22-1/2"	32-1/2"	1 DRAWER, DOUBLE DOOR, 1 ADJ. SHELF
58	CAMPBELL RHEA	3688C	BASE CABINET	30"	22-1/2"	32-1/2"	1 DRAWER, DOUBLE DOOR, 1 ADJ. SHELF
59	CAMPBELL RHEA	4720	WALL CABINET	41-1/4"	12"	31-1/4"	DOUBLE DOOR, 2 ADJ. SHELVES
60	CAMPBELL RHEA	7736	BOOKCASE	35-1/4"	16"	29"	VENT AT BASE
60A	CAMPBELL RHEA	7736	BOOKCASE	35-1/4"	16"	29"	
61	CAMPBELL RHEA	7738	BOOKCASE	41-1/4"	16"	29"	VENT AT BASE
62	CAMPBELL RHEA	5622B	BASE CABINET	15-5/16"	22-1/2"	32-1/2"	1 DRAWER, SINGLE DOOR, 1 ADJ. SHELF
63	CAMPBELL RHEA	6784	GOGGLE CABINET	24-1/2"	9-1/2"D	32"	INCLUDES 40 "6789" CHEMICAL SPLASH GOGGLES, BUILT IN GERMICIDAL LAMP AND AUTOMATIC 5 MINUTE TIMER
64	CAMPBELL RHEA	7100*	INSTRUCTOR'S DESK	60"	34"	30"	18" W BASE CAB W/ 1 FILE DRAWER, 2 STORAGE DRAWERS, ONE PULL OUT WRITING SLIDE W/ 21" KNEE SPACE
65	CAMPBELL RHEA	5686	TALL STORAGE	30"	22-1/2"	84"	DBL DOOR. 1 FIXED SHELF, 4 ADJUSTABLE SHELVES
66	CAMPBELL RHEA	5724	TALL STORAGE	35-1/4"	22-1/2"	84"	DBL DOOR. 1 FIXED SHELF, 4 ADJUSTABLE SHELVES
67	CAMPBELL RHEA	5895	TOTE TRAY CASE	35-1/4"	22-1/2"	84"	36 "8344" TOTE TRAYS INCLUDED
68	CAMPBELL RHEA	4690	WALL CABINET	27"	23-3/4"	12"	DOUBLE DOOR 1 ADJ. SHELF
69	CAMPBELL RHEA	6985B	BASE CABINET	27"	22-1/2"	32-1/2"	DOUBLE DOOR 1 ADJ. SHELF
70	CAMPBELL RHEA	1548	BASE CABINET	30"	22-1/2"	35"	DOUBLE DOOR, 1 ADJ SHELF, 1 DRAWER
71	CAMPBELL RHEA	6982*	PLAIN FRAME WITH LEGS	48"	34"	35"	MODIFIED DEPTH, SEE DETAIL 10/A403
71A	CAMPBELL RHEA	7076C*	BF PLAIN FRAME WITH LEGS	48"	28"	33"	MODIFIED DEPTH, SEE DETAIL 10/A403, BF FRAME ON BOTH SIDES
72	ICI SCIENTIFIC	J348-48	PAINTED STEEL OPEN SHELVES	48"	24"	84"	5 ADJ. SHELVES
73	CAMPBELL RHEA	4884*	WALL CABINET	38"	16"	16-3/16"	MODIFIED WIDTH, DOUBLE DOOR 1 ADJ. SHELF
74	CAMPBELL RHEA	2466	AV BASE CABINET	35-1/4"	24"	29	SEE DETAIL D/A400
75	CAMPBELL RHEA	2646	AV BASE CABINET	41-1/2"	24"	29"	SEE DETAIL D/A400
76	ICI SCIENTIFIC	J334-36	PAINTED STEEL OPEN SHELVES	36"	24"	84"	5 ADJ. SHELVES
77	CAMPBELL RHEA	8760	ADA CLOSURE PANEL	48"	24"	33"	
79	JUST	SL-ADA-1921-A-GR	STAINLESS STEEL DROP-IN SINK	31"	21"	5-1/2" BOWL DEPTH	SEE SINK NOTE "D"
80	CAMPBELL RHEA	7730*	BOOKCASE	35-1/4"	12"	29"	1 ADJ. SHELF, MODIFIED HEIGHT
81	TMI	D3300-36-30-24	BASE CABINET	36"	24"	30"	3 EQUAL DRAWERS ON RIGHT, 1 SINGLE DOOR ON LEFT W/ 1 ADJ SHELF
82	TMI	D2804-36-34	BASE CABINET	34"	24"	34"	
83	TMI	W2062-48-24-12	WALL CABINET	48"	14"	24"	DOUBLE DOOR, VERTICAL DIVIDER AND 2 ADJ. SHELVES
84	TMI	W0262-36-24-12	WALL CABINET	36"	12"	24"	DOUBLE DOOR, VERTICAL DIVIDER AND 2 ADJ. SHELVES
85	TMI	B2360-36-34-36	BASE CABINET	36"	36"	34"	CORNER CABINET W/ SQUEAR FACE, RIGHT HINGED DOOR AND 2 REVOLVING POLYMER SHELVES
86	CAMPBELL RHEA	3753C	BASE CABINET	18"	22-1/2"	32-1/2"	SINGLE DOOR BASE CABINET HINGED RIGHT
87	CAMPBELL RHEA	3753C	BASE CABINET	18"	22-1/2"	32-1/2"	SINGLE DOOR BASE CABINET HINGED LEFT
89	CAMPBELL RHEA	4672	WALL CABINET	41-1/2"	12"	16-3/16"	DOUBLE DOOR ONE ADJ SHELF
90	CAMPBELL RHEA	3614	BASE CABINET	12-3/8"	22-1/2"	32-1/2"	3 DRAWERS
91	CAMPBELL RHEA	4500	BASE CABINET	12-3/8"	12"	31-1/4"	DOOR HINGED LEFT 2 ADJ. SHELVES
92	CAMPBELL RHEA	4674	WALL CABINET	47-1/4"	12"	16-3/16"	DOUBLE DOOR ONE ADJ SHELF
93	CAMPBELL RHEA	4644	WALL CABINET	30"	12"	12"	DOUBLE DOOR, CUT OUT IN BACK FOR HOOD PLUG
94	CAMPBELL RHEA	3604	BASE CABINET	15-5/16"	22-1/2"	32-1/2"	SINGLE DOOR HINGED RIGHT
95	TMI	D3866-30-30-24	BASE CABINET	30"	24"	30"	(2) EQUAL DRAWERS & (1) LATERAL FILE
96	TMI	D3862-16-30-24	BASE CABINET	16"	24"	30"	(2) EQUAL DRAWERS & (1) LATERAL FILE
97	TMI	D1133-48-34-24	BASE CABINET	48"	24"	34"	DOUBLE DOOR BASE CABINET ONE VERTICAL DIVIDER, 2 ADJ SHELVES, 2 6" H DRAWERS
98	CAMPBELL RHEA	4426	WALL CABINET	21"	12"	31-1/4"	WALL CABINET HINGED RIGHT, 2ADJ. SHELVES
99	CAMPBELL RHEA	4508	WALL CABINET	24"	12"	31-1/4"	WALL CABINET HINGED RIGHT, 2ADJ. SHELVES
100	STERIL-SIL (OR APPROVED EQUAL)	KIT-ENC48-453	VENDING MERCHANDISING KIOSK	48"	24.75"	41"	MOBILE KIOSK FOR PACKAGED GOODS AND FLATWARE/PLASTICWARE AND NAPKINS, 48"W X 24.75"D X 41.0"H, E1 SYSTEM COUNTER, MOBILE, INCLUDING (2) E1-BS3OE-PC DROP IN SILVERWARE BASKET, (2) E1-2N5-1VH DUAL NAPKIN DISPENSER INSERTS, (1) MERCH48 GRIDWALL BACK, POSTS, AND (4) BASKETS, COUNTER INCLUDES: ENCLOSED BASE, HINGED & LOCKING DOOR, BACK & SIDE PANELS, CORNER BUMPERS, INTEGRATED HANDLES, (4) LOCKING CASTERS, STAINLESS STEEL, MADE IN USA
101	CAMPBELL RHEA	3685D	BASE CABINET	35-1/4"	22-1/2"	32-1/2"	1 DRAWER, DOUBLE DOORS, 1 ADJ. SHELF
102	CAMPBELL RHEA	6974	PLAIN RAIL	36"	4-7/8"		
103	CAMPBELL RHEA	4716	WALL CABINET	30"	12"	31-1/4"	DOUBLE DOOR, 2 ADJ. SHELVES
104	CAMPBELL RHEA	4504	WALL CABINET	18"	12"	31-1/4"	SINGLE DOOR, 2 ADJ. SHELVES HINGED LEFT
105	CAMPBELL RHEA	4424	WALL CABINET	18"	12"	31-1/4"	SINGLE DOOR, 2 ADJ. SHELVES HINGED RIGHT
106	CAMPBELL RHEA	5899	TALL TOTE TRAY STORAGE	47-1/4"	22-1/2"	84"	INCLUDE (36) 6346 TOTE TRAYS
107	CAMPBELL RHEA	5792	TALL STORAGE	47-1/4"	22-1/2"	84"	DBL DOOR. 1 FIXED SHELF, 4 ADJUSTABLE SHELVES
108	CAMPBELL RHEA	3646	BASE CABINET	24"	22-1/2"	33"	2 BOX DRAWERS AND 1 FILE DRAWER
109	TMI	D3001 -12-34-24	BASE CABINET	12"	24"	34"	3 DRAWER BASE CABINET
109A	TMI	D3001-12-30-24	BASE CABINET	27"	24"	30"	3 DRAWER BASE CABINET
110	CAMPBELL RHEA	3614	BASE CABINET	12-3/8"	22-1/2"	32-1/2"	3 DRAWER BASE CABINET
111	LABCONCO	4010010000	STEAMSCRUBBER GLASSWARE WASHERS	24"	27-5/8"	32"	

NJDCA Electronic Release Stamp

FVHD architects planners
Fraytak Veisz Hopkins Duthie P C

Corporate: 1515 Lower Ferry Road
Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Avenue
Mont Clare - Pennsylvania 19453
F V H D P C . C O M

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ - 21AI01706000 | PA - RA012520X
GEORGE R. DUTHIE JR., AIA, PP
NJ - 21AI01299200
JASON J. DUBOWITCH, AIA
NJ - 21AI01979800 | PA - RA406009
STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

Architect

10/10/25
Date

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

Project Number
5516B

Project Date
10.10.2025

Checked By
GRD

Drawn By
KAM

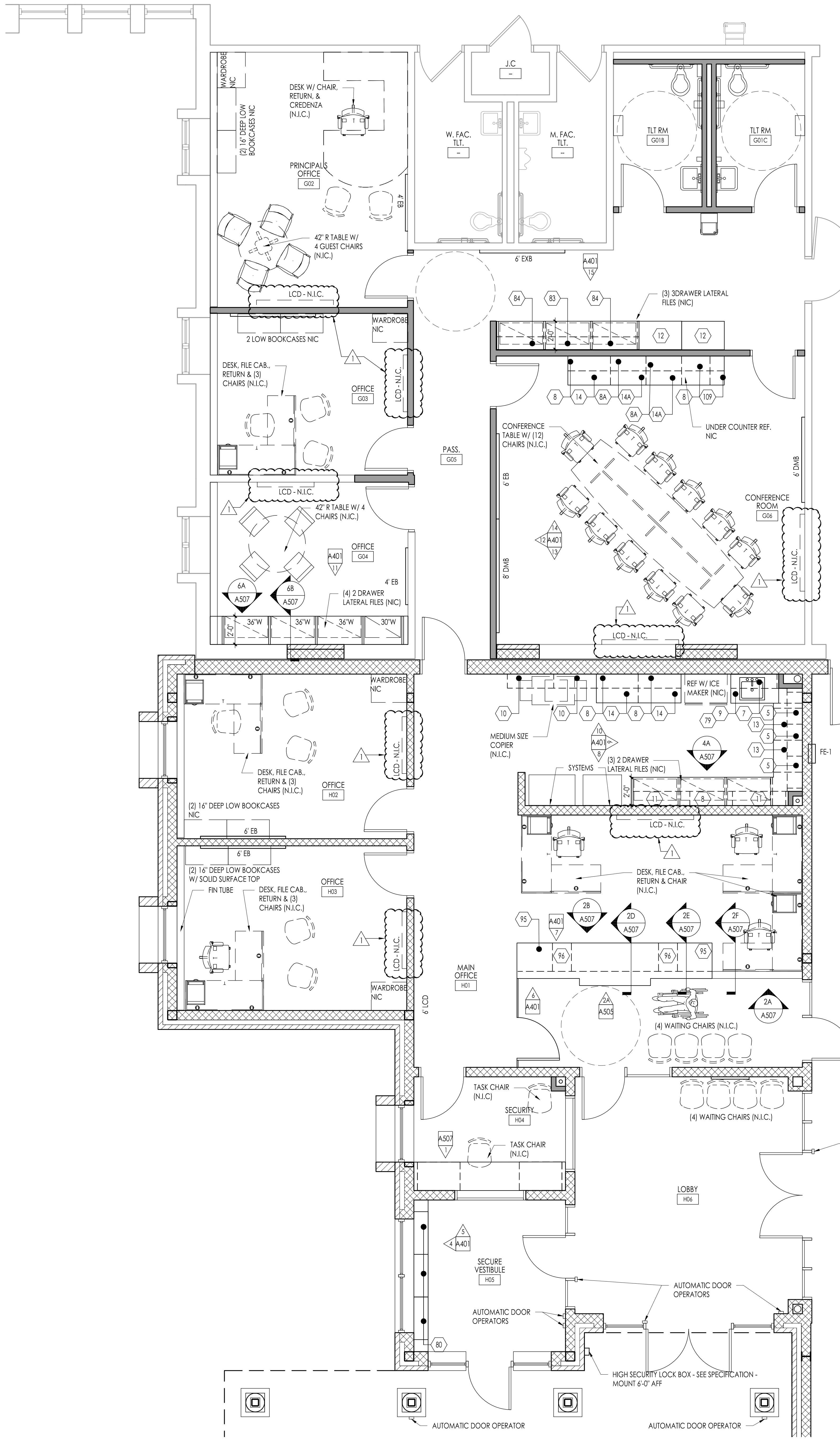
Scale
AS NOTED

Drawing Name
Equipment Schedules, Details and Notes

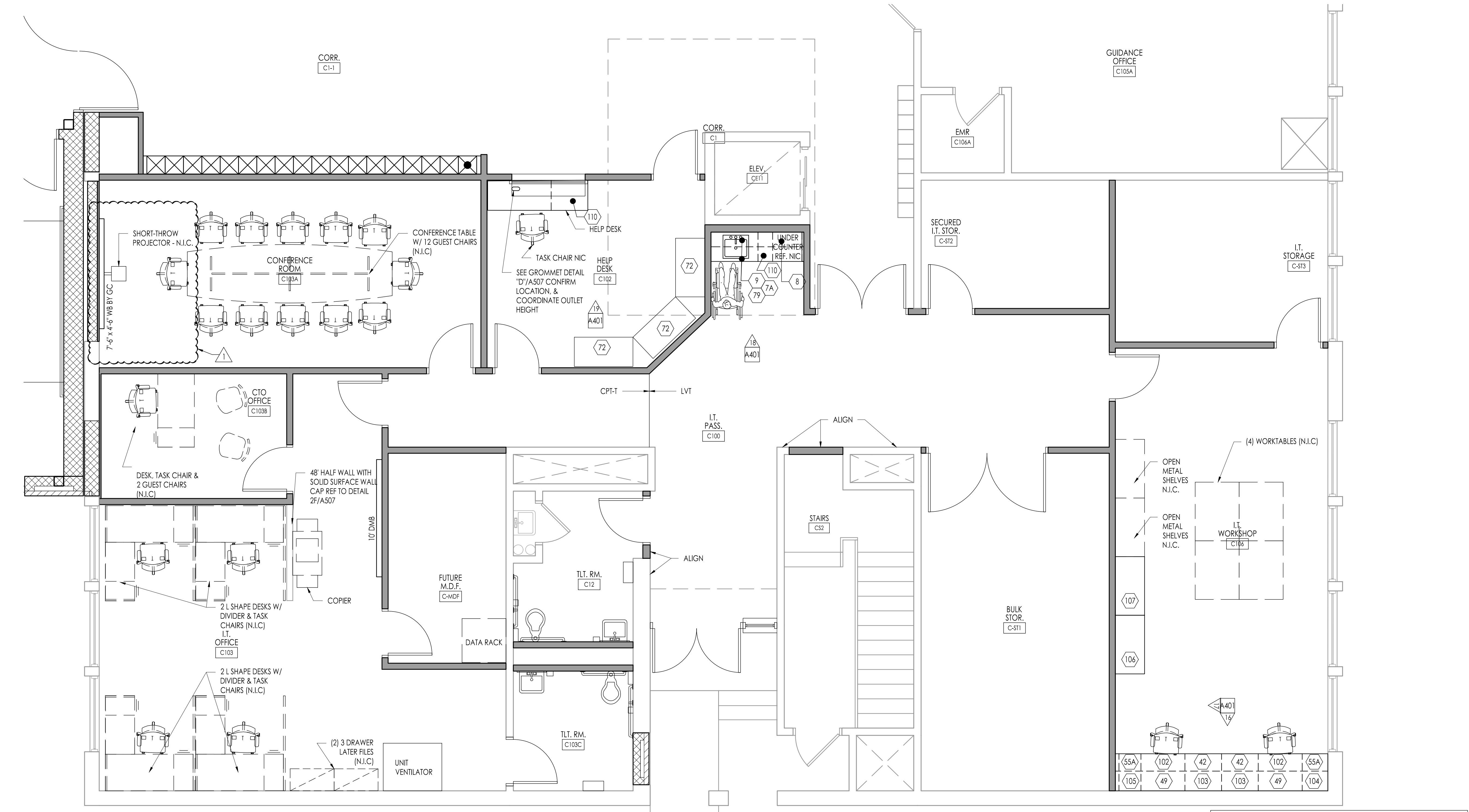
Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
1	1.14.26	ADDENDUM 1

Drawing Number
A400



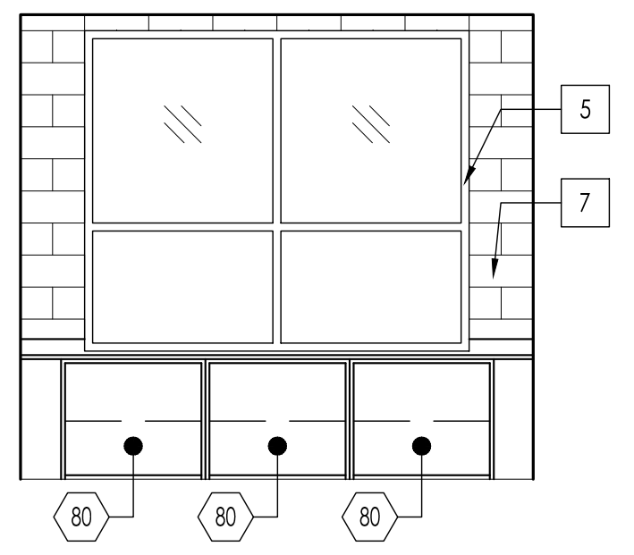
1 Room Layout - Main Office, Offices, Security, Secure Vestibule, Lobby, Principal Office, Conference
Scale: 1/4" = 1'-0"
H01 H02 H03 H04 H05 H06 G02 G06
G03 G04



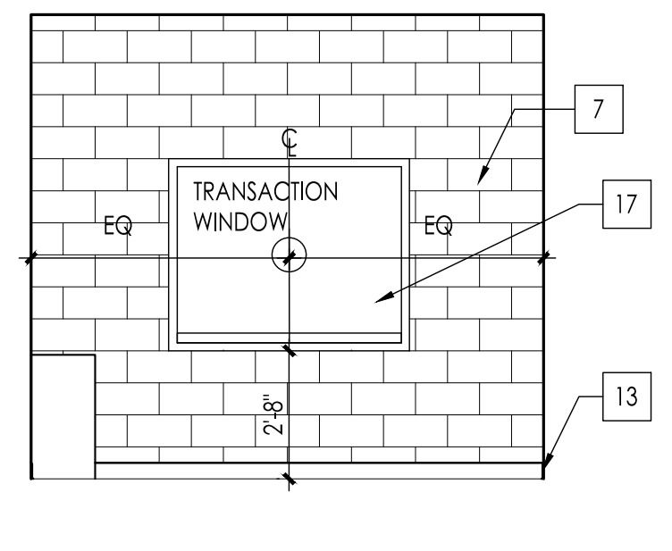
2 Room Layout - I.T. Passage, Help Desk, I.T. Office, Conference, CTO Office, I.T. Workshop (Alternate Bid MS-4)
Scale: 1/4" = 1'-0"
C100 C102 C103 C103A C103B C106

KEY NOTE LEGEND - MAIN OFFICE

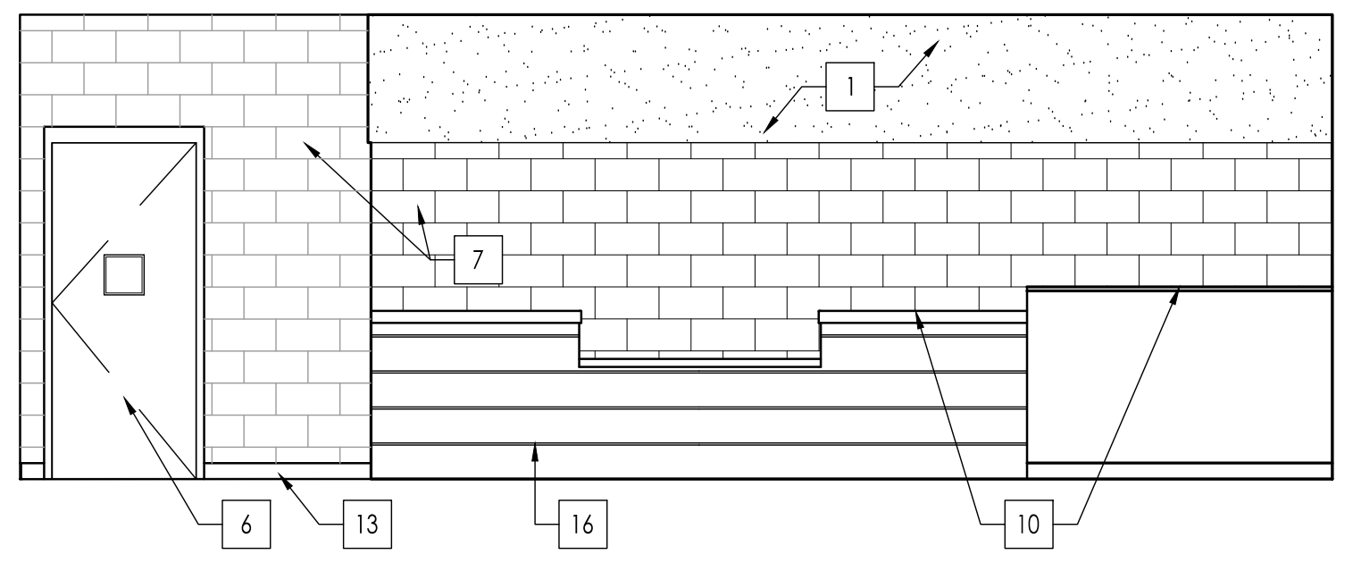
1	GYP BOARD PAINTED
2	BRICK RUNNING BOND, MATCH EXISTING
3	NOT USED
4	EXIST CMU BLOCK WALL, PAINTED, REF A700 SERIES FOR FINISHES
5	ALUMINUM WINDOW SYSTEM, REF A600 SERIES DWGS
6	WOOD DOOR AND HOLLOW METAL FRAME, REF DOOR SCHEDULE
7	EXPOSED CMU PAINTED, RUNNING BOND, REF STRUCTURE FOR VERTICAL AND HORIZONTAL REINFORCEMENT
8	CLOCK/SPEAKER BOX, REF ELECT. DWGS FOR DETAILS
9	SECURITY TV/MONITOR, N.I.C., CONTRACTOR TO PROVIDE BLOCKING FOR MOUNTING BRACKET
10	SOLID SURFACE COUNTERTOP
11	FURNITURE/ EQUIPMENT NOT IN CONTRACT, FOR REFERENCE ONLY
12	DRY MARKERBOARD/EXHIBITION BOARD, REF C&D/A400 FOR TYP CONDITION
13	4" RUBBER BASE, REF ROOM FINISH SCHEDULE
14	SHORT THROW PROJECTOR - N.I.C. 1
15	MANUAL ROLLER SHADES REF SPECIFICATIONS
16	MAIN OFFICE CHECK IN DESK, REFER TO DWG A507
17	SECURITY TRANSACTION WINDOWS REFER TO A600 SERIES DWG FOR DETAILS.



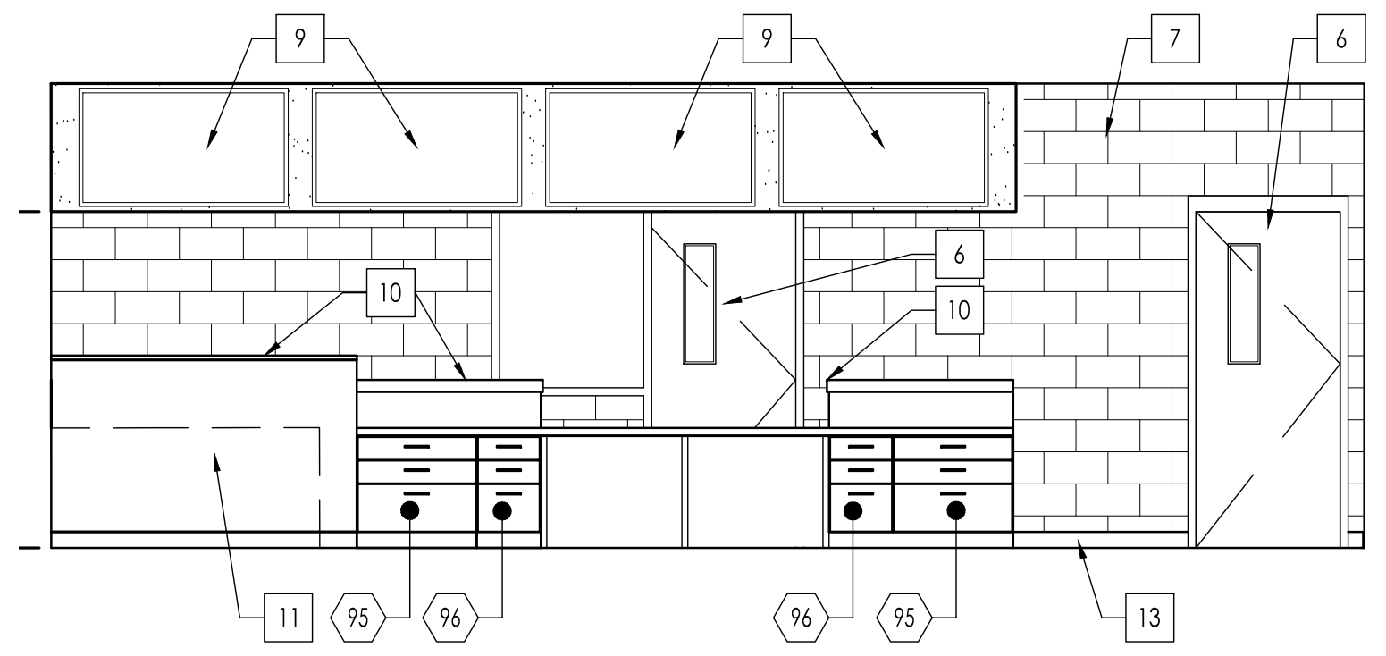
4 Security H04 Elevation
1/4" = 1'-0"



5 Security H04 Elevation
1/4" = 1'-0"



6 Main Office H01 Elevation
1/4" = 1'-0"



7 Main Office H01 Elevation
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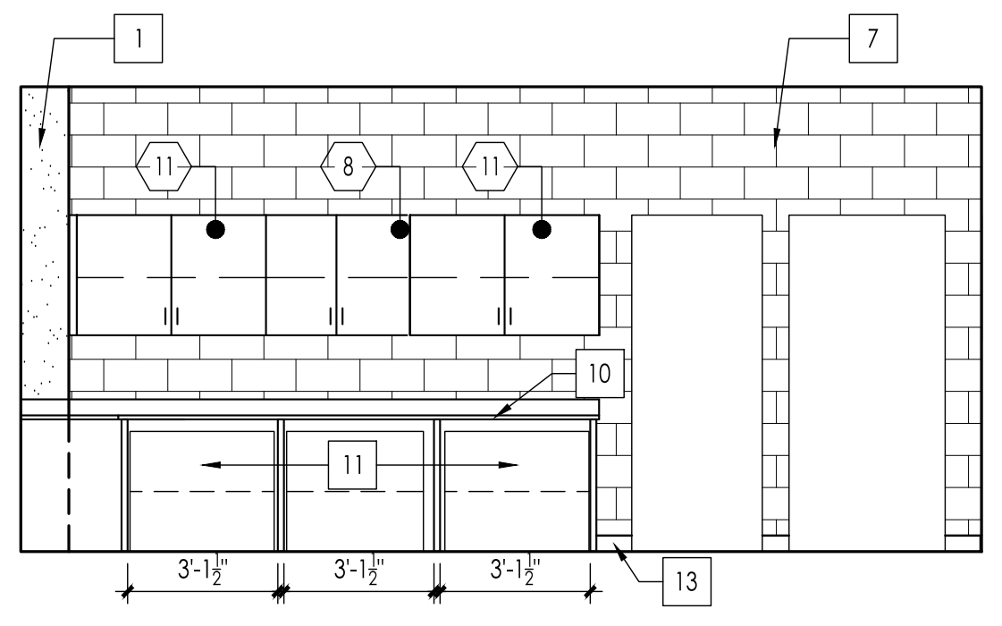

8 Main Office H01 Elevation
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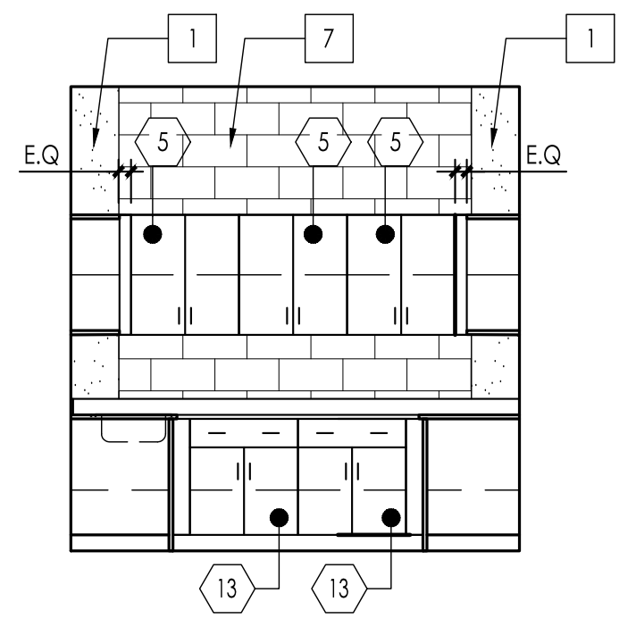

9 Main Office H01 Elevation
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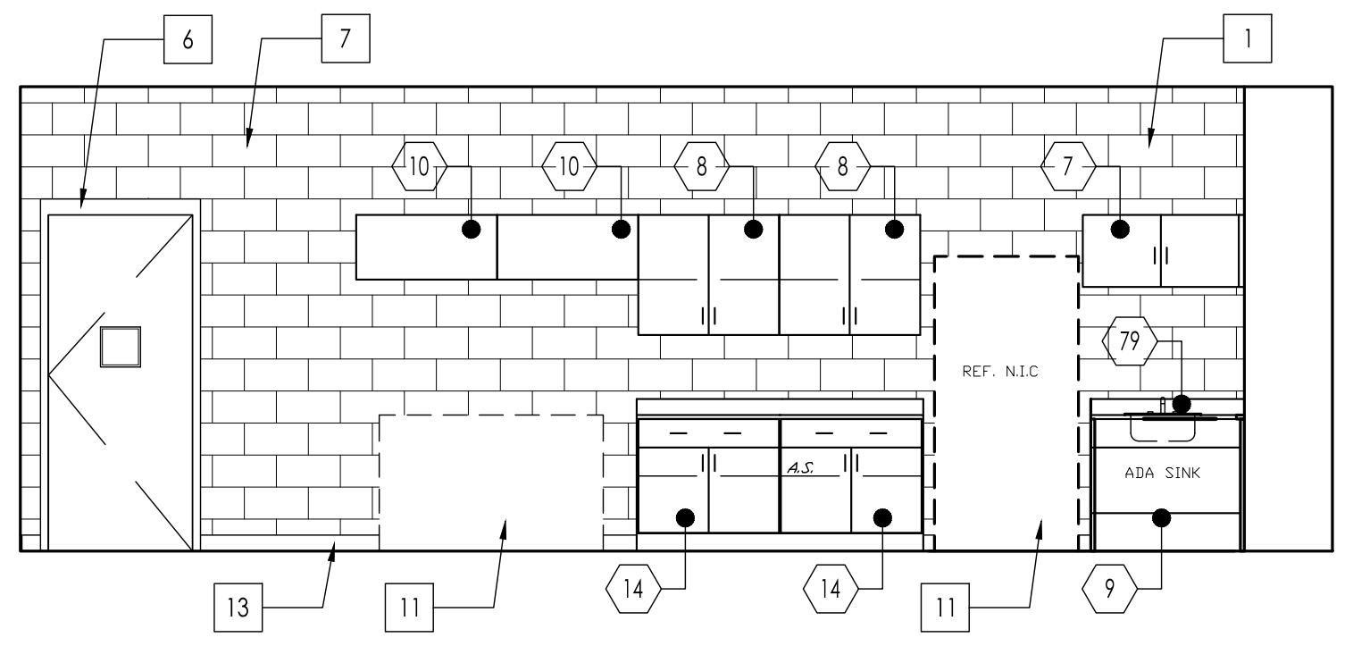

10 Main Office H01 Elevation
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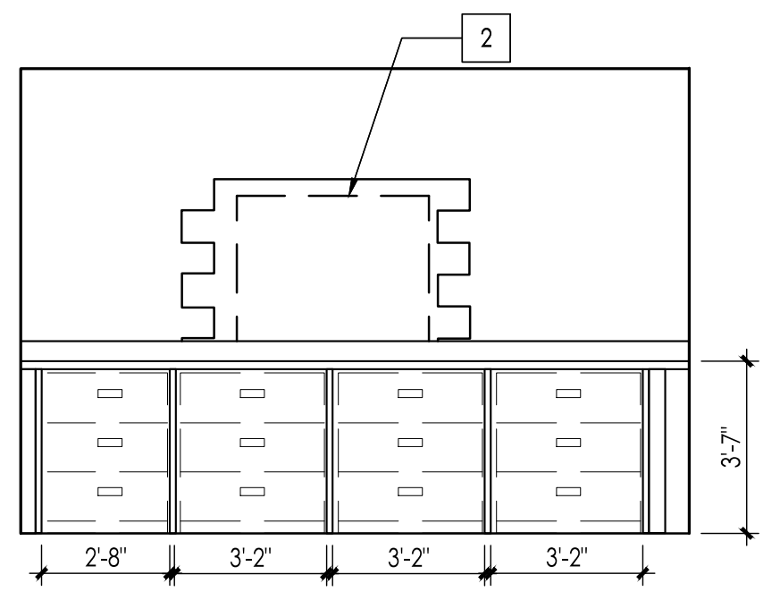

11 Office G04 Elevation
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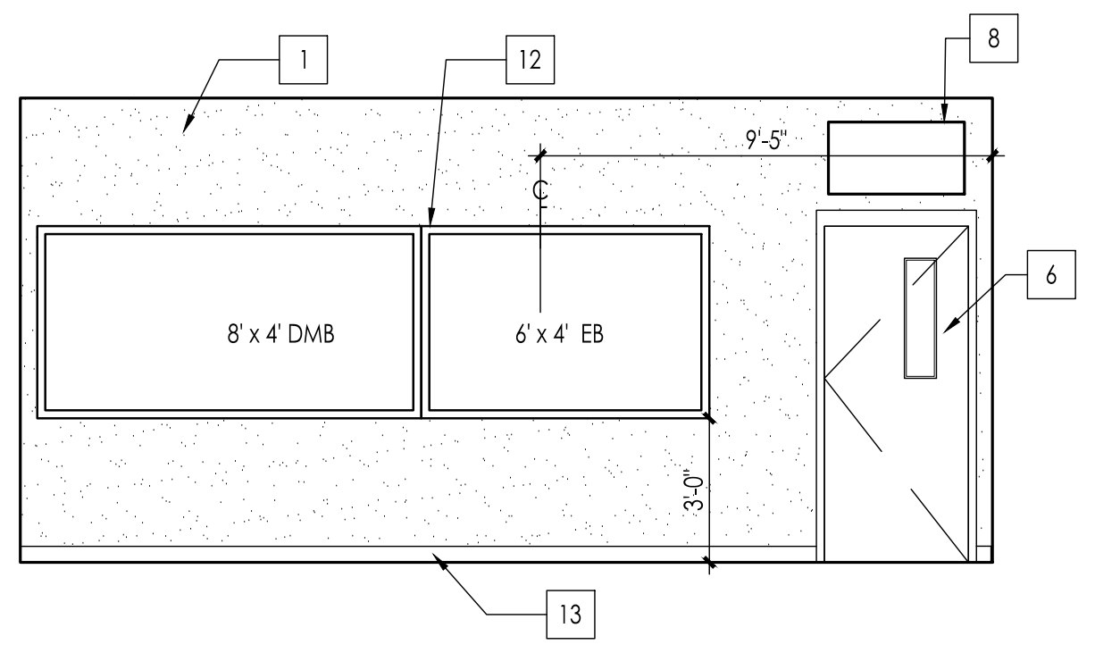
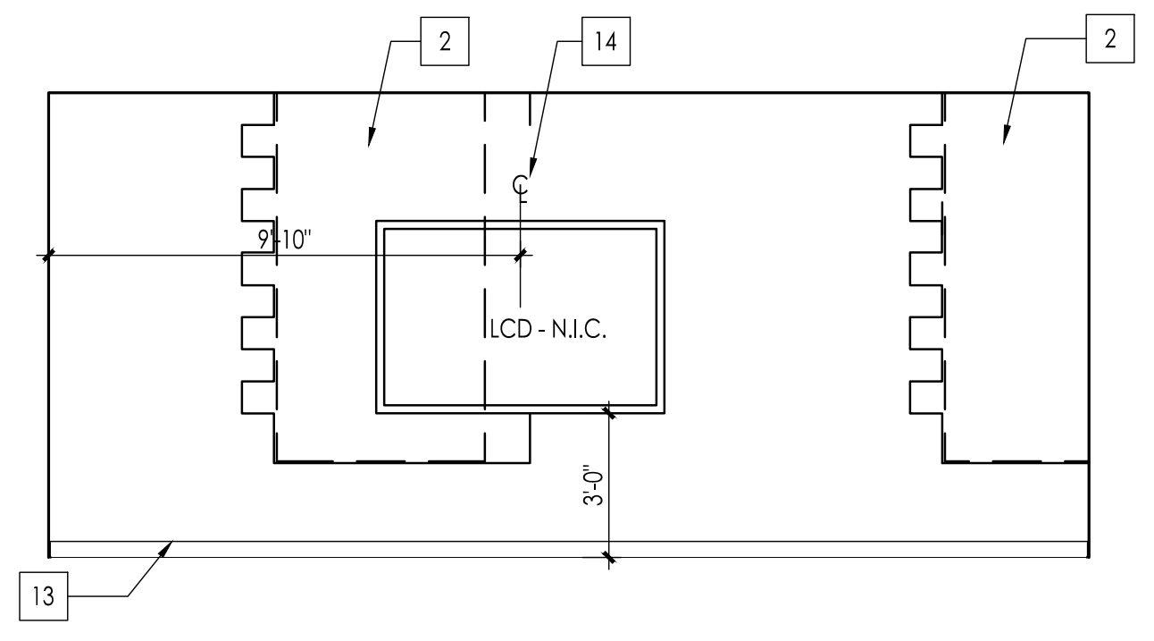
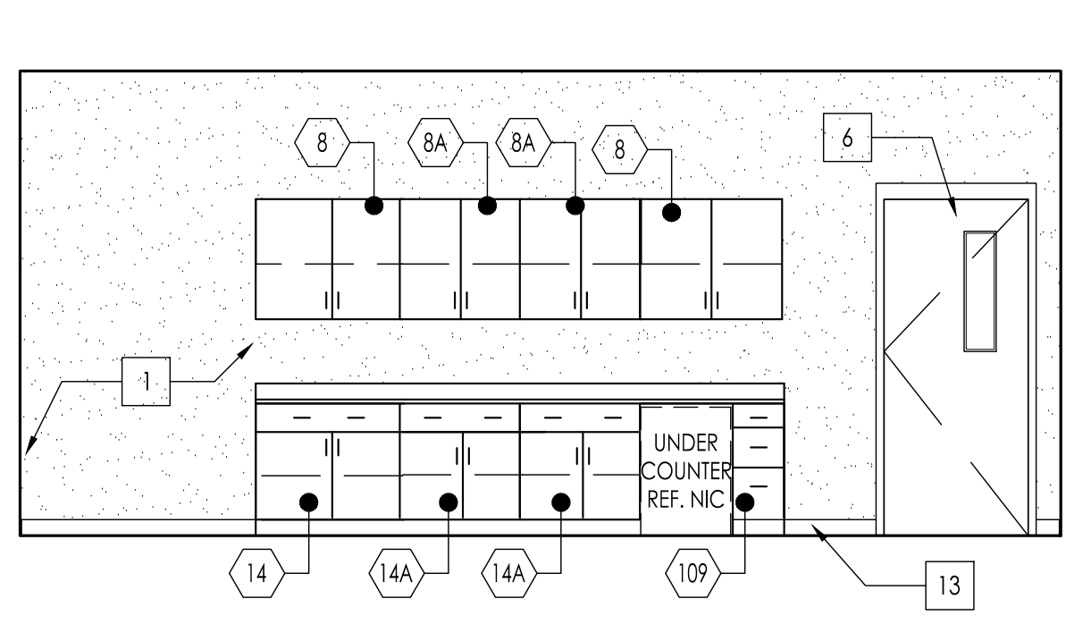


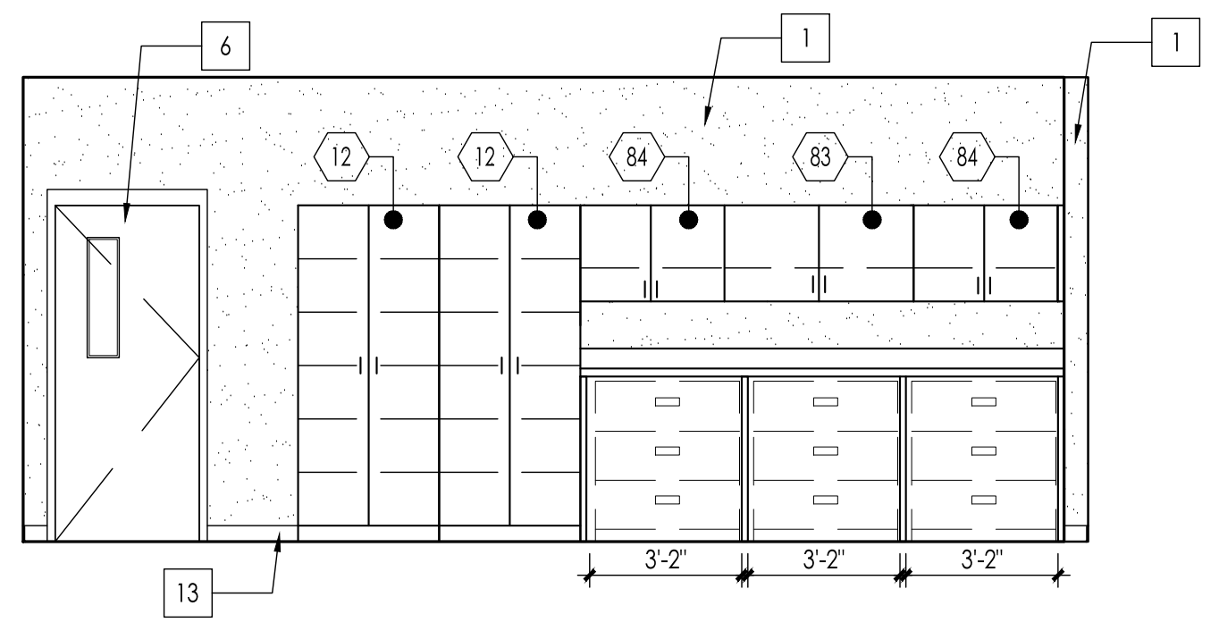
12 Conference Room G06 Elevation
1/4" = 1'-0"



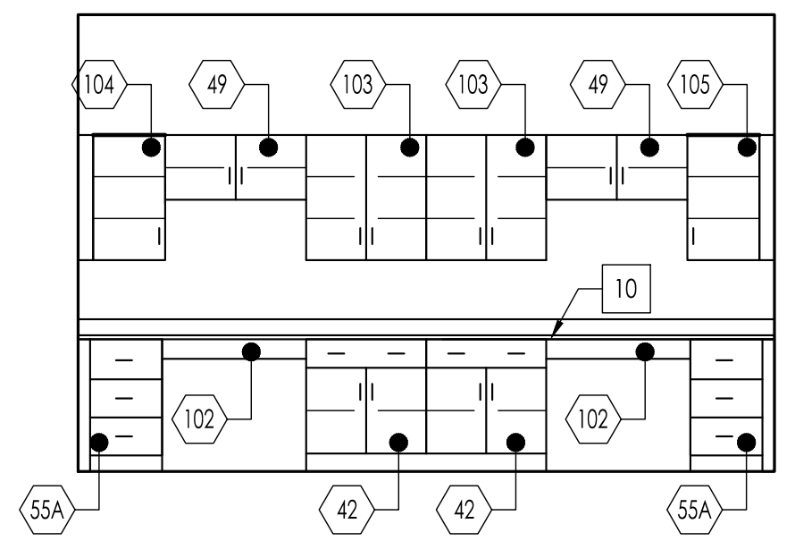
13 Conference Room G06 Elevation
1/4" = 1'-0"



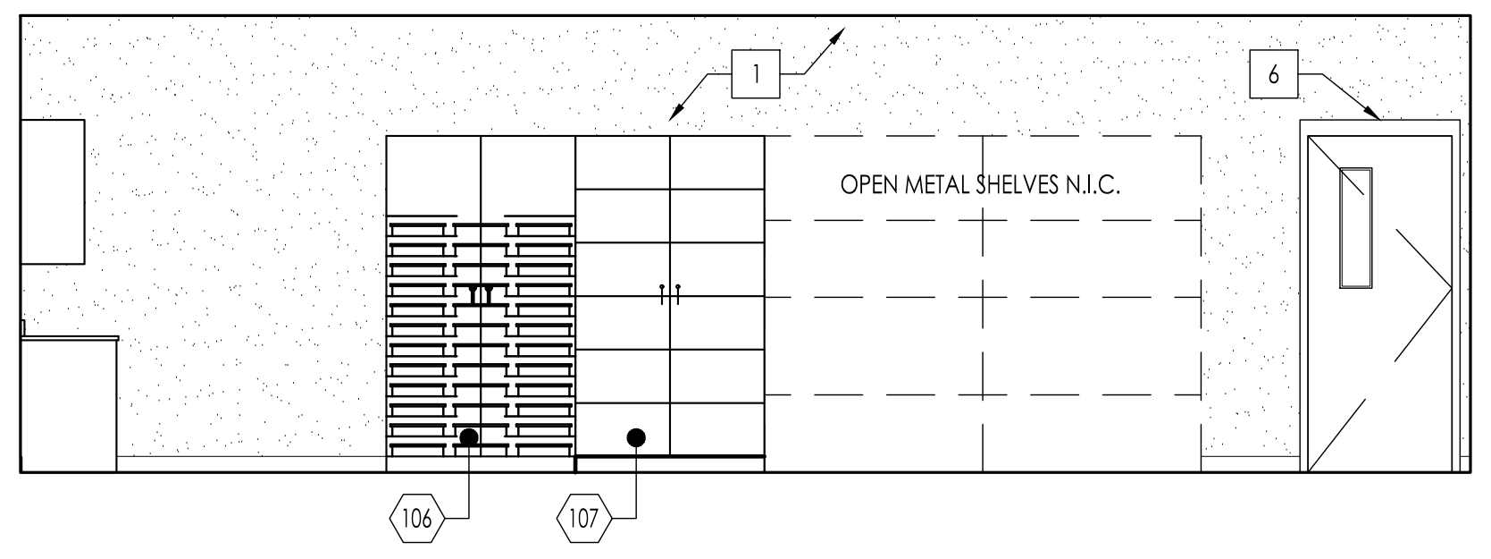
14 Conference Room G06 Elevation
1/4" = 1'-0"



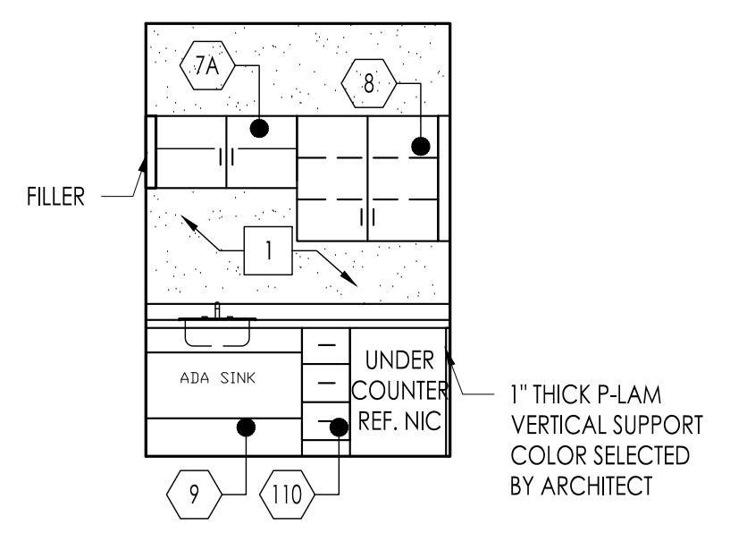
15 Main Office Corridor Elevation
1/4" = 1'-0"



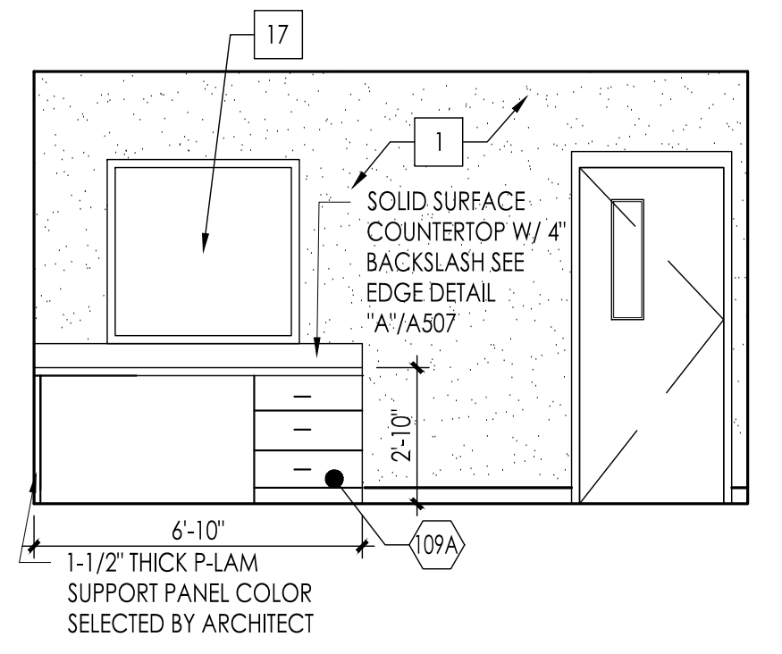
16 C106 - I.T. Workshop Elevation
1/4" = 1'-0" Alternate Bid MS-4



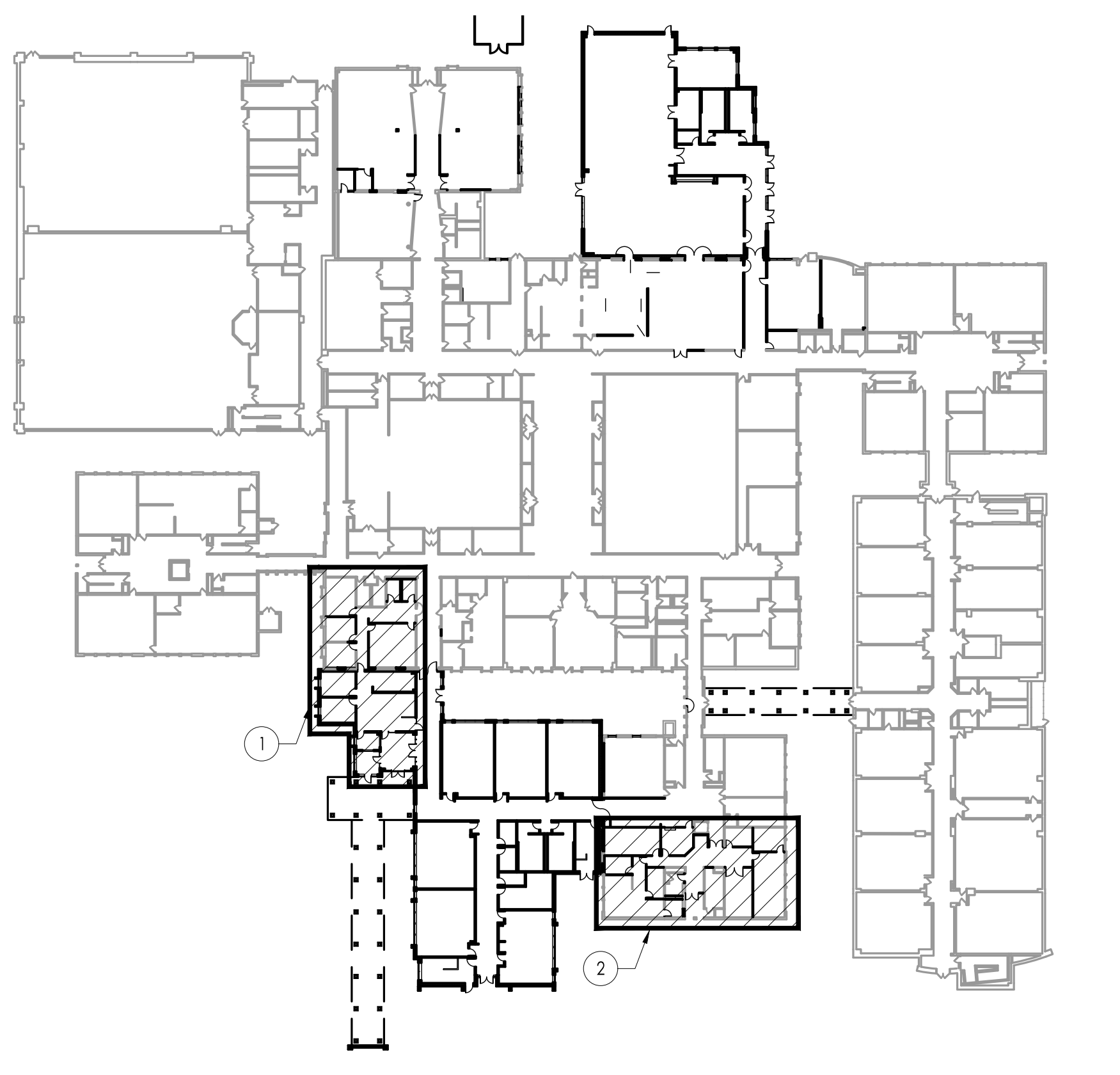
17 C106 - I.T. Workshop Elevation
1/4" = 1'-0" Alternate Bid MS-4



18 C100 - I.T Pass. Elevation
1/4" = 1'-0" Alternate Bid MS-4


SOLID SURFACE COUNTERTOP W/ 4" BACKSLASH SEE EDGE DETAIL 'A'/A507
1-1/2" THICK P-LAM SUPPORT PANEL COLOR SELECTED BY ARCHITECT

19 C102 -Help Desk Elevation
1/4" = 1'-0" Alternate Bid MS-4



Key Plan - First Floor
Scale: 1/64" = 1'-0"

NJDCA Electronic Release Stamp

FVHD architects planners
Fraytak Veisz Hopkins Duthie PC

Corporate: 1515 Lower Ferry Road
Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Avenue
Mont Clare - Pennsylvania 19453
F V H D P C . C O M

WILLIAM D. HOPKINS III, AIA, LEED AP
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NJ - 21AI01299200
JASON J. DUBOWITCH, AIA
NJ - 21AI01979800 | PA - RA406009
STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

Architect

10/10/25
Date

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane, Princeton, NJ 08540

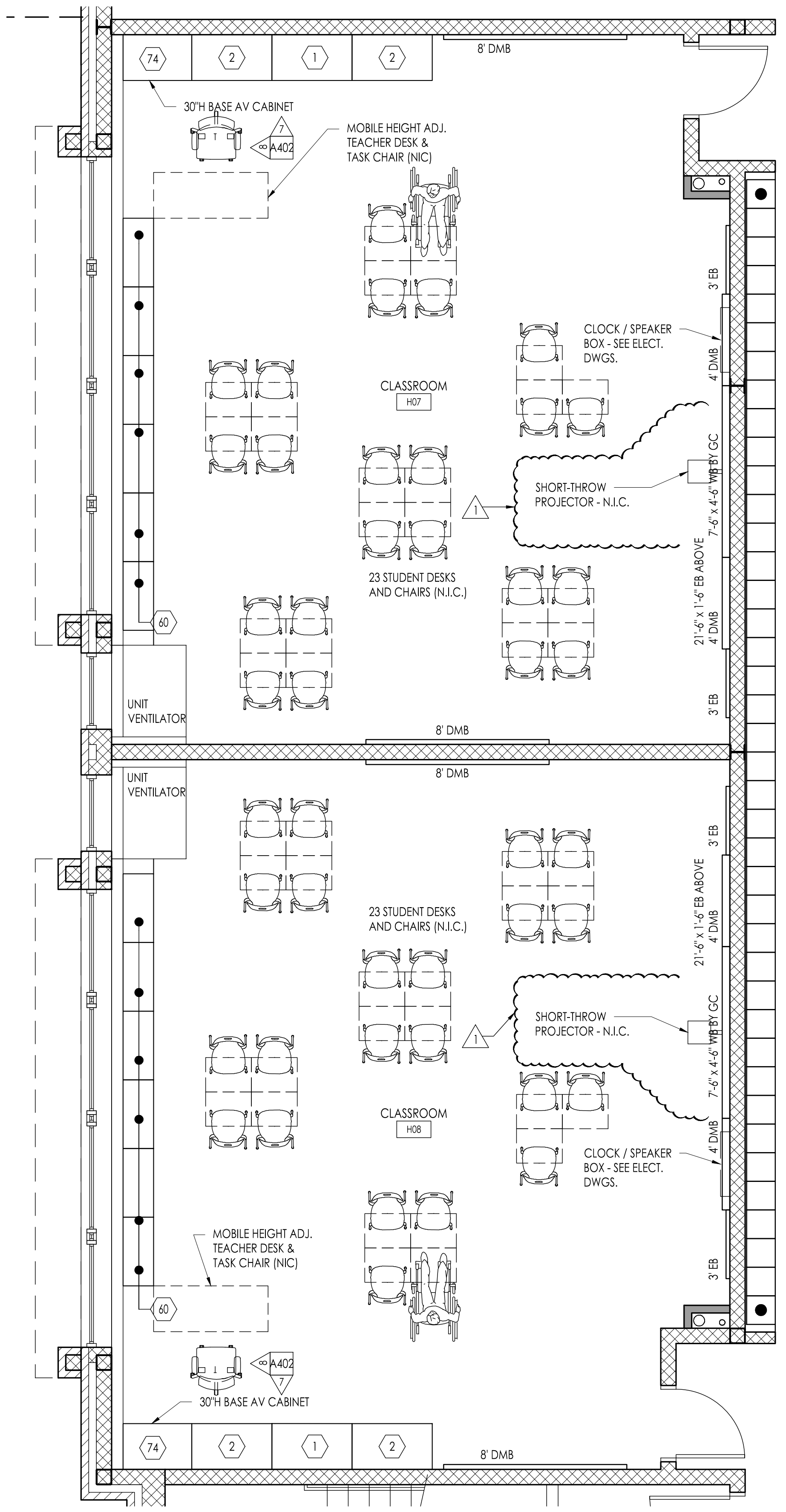
Project Number
5516B
Project Date
10.10.2025
Checked By
GRD
Drawn By
KAM
Scale
AS NOTED

Drawing Name
Enlarged Plans & Interior Elevations - Administration Offices and I.T. Offices

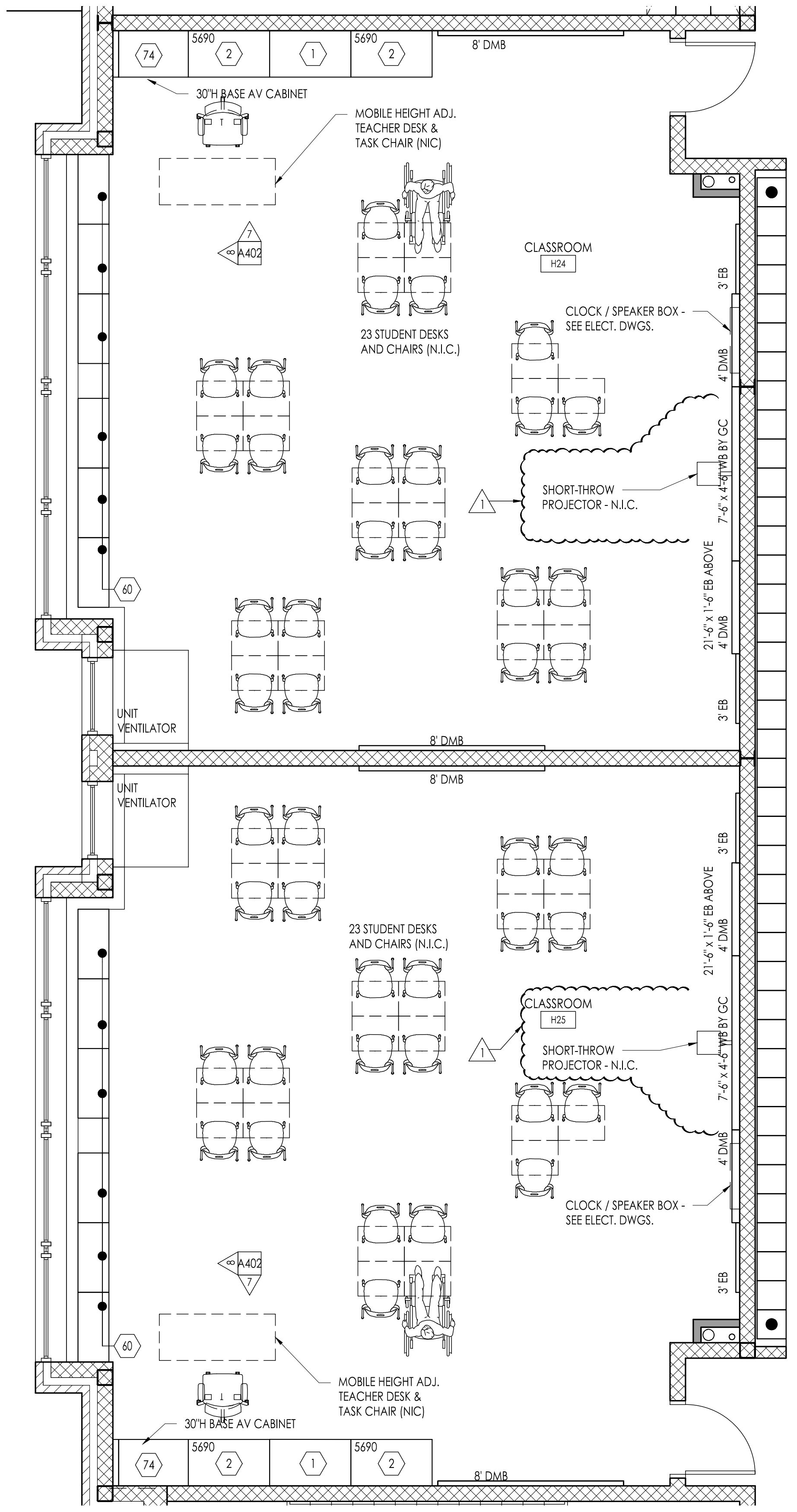
Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
	12.15.25	NJ DCA RESPONSES
1	1.14.26	ADDENDUM 1

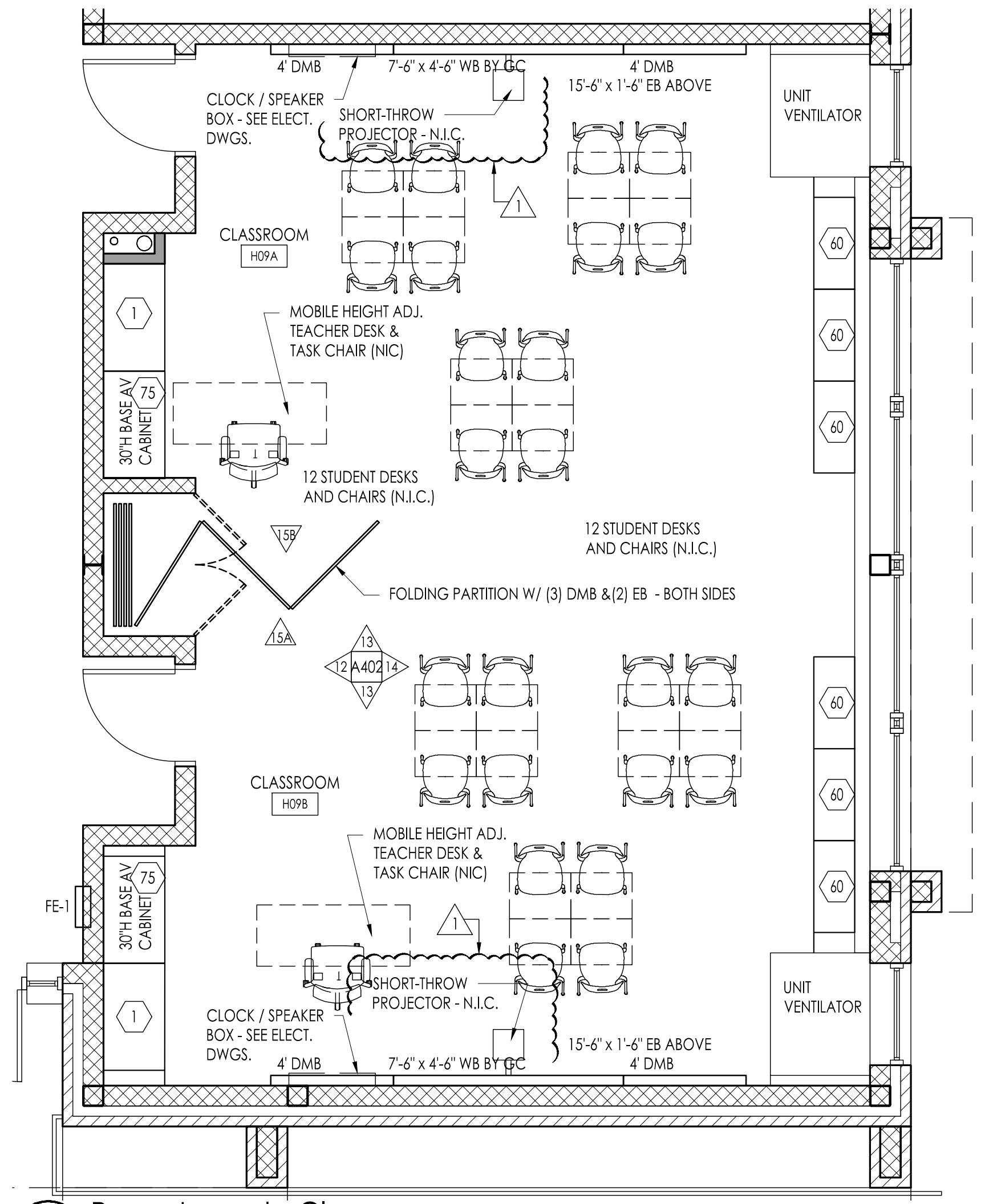
Drawing Number
A401


30"H BASE AV CABINET
MOBILE HEIGHT ADJ. TEACHER DESK & TASK CHAIR (NIC)
CLOCK / SPEAKER BOX - SEE ELECT. DWGS.
CLASSROOM
H07
SHORT-THROW PROJECTOR - N.I.C.
23 STUDENT DESKS AND CHAIRS (N.I.C.)
UNIT VENTILATOR
8' DMB
CLASSROOM
H08
3' EB
4' DMB
21'-6" x 1'-6" EB ABOVE
7'-6" x 4'-6" WB BY GC

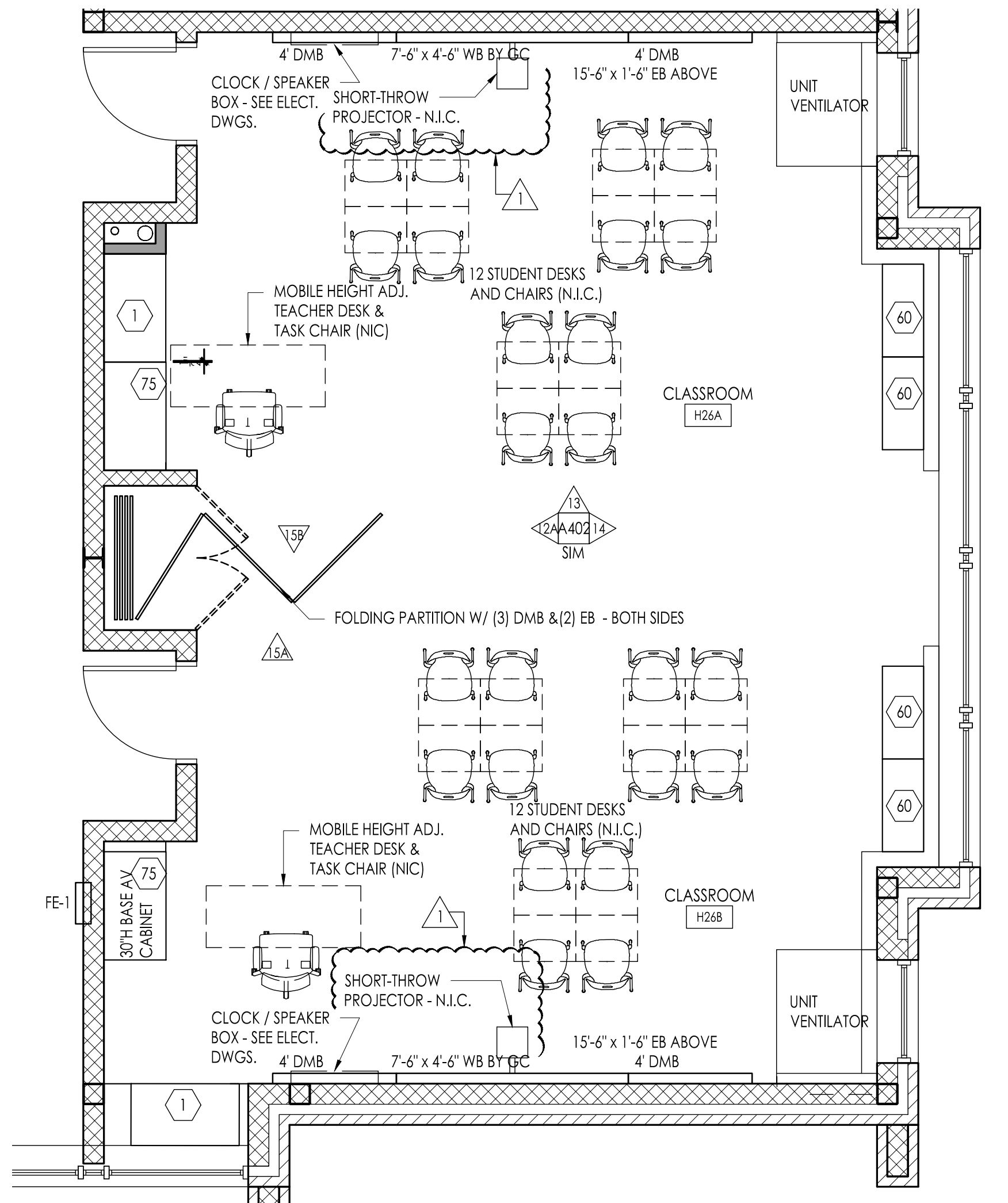
1 Room Layout - Classrooms
Scale: 1/4" = 1'-0"
H07 H08


5690
30"H BASE AV CABINET
MOBILE HEIGHT ADJ. TEACHER DESK & TASK CHAIR (NIC)
CLASSROOM
H24
CLOCK / SPEAKER BOX - SEE ELECT. DWGS.
23 STUDENT DESKS AND CHAIRS (N.I.C.)
SHORT-THROW PROJECTOR - N.I.C.
UNIT VENTILATOR
8' DMB
CLASSROOM
H25

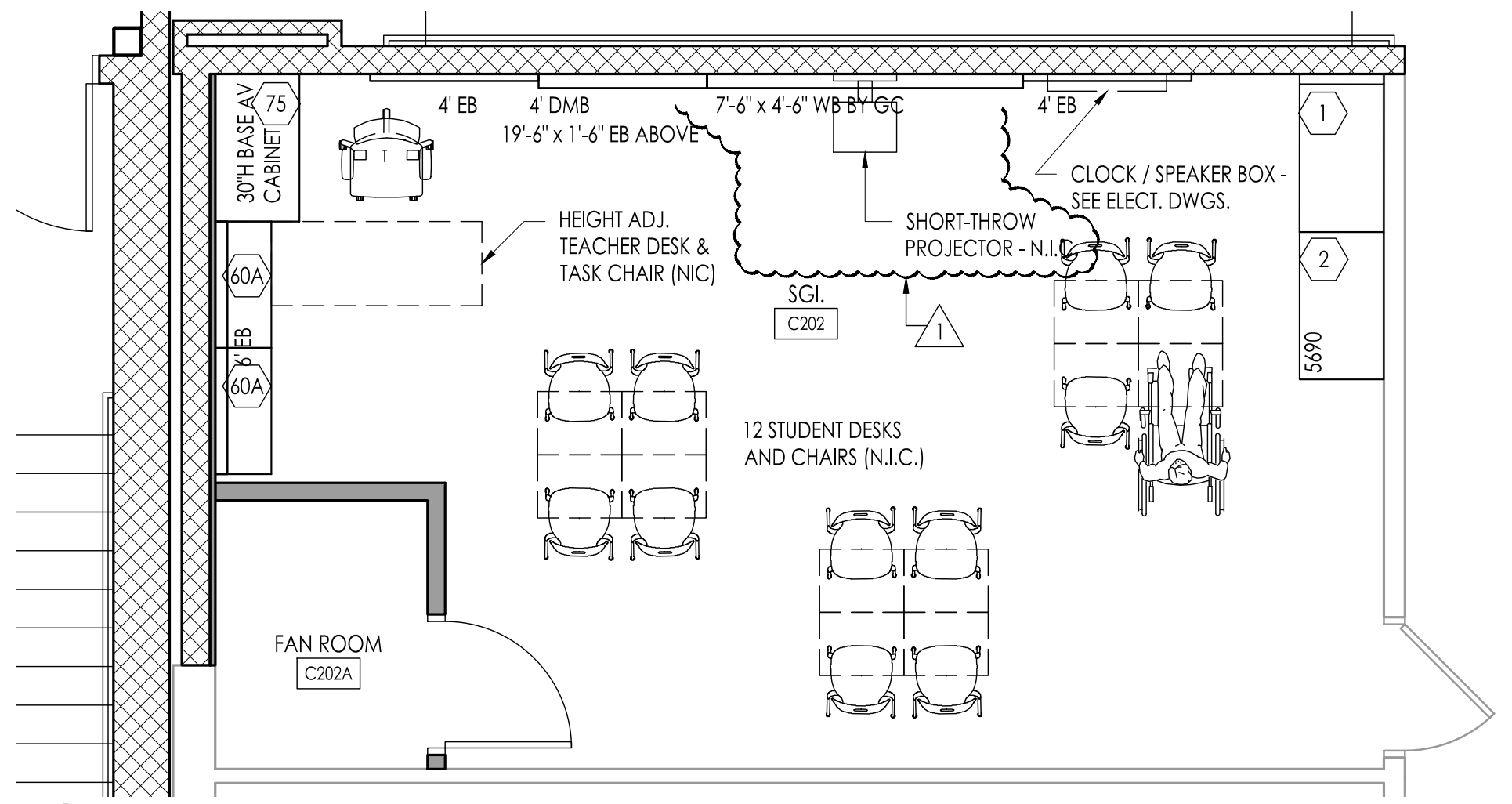
4 Room Layout - Classrooms
Scale: 1/4" = 1'-0"
H24 H25


4' DMB
7'-6" x 4'-6" WB BY GC
15'-6" x 1'-6" EB ABOVE
CLOCK / SPEAKER BOX - SEE ELECT. DWGS.
SHORT-THROW PROJECTOR - N.I.C.
UNIT VENTILATOR
CLASSROOM
H09A
MOBILE HEIGHT ADJ. TEACHER DESK & TASK CHAIR (NIC)
30"H BASE AV CABINET
12 STUDENT DESKS AND CHAIRS (N.I.C.)
FOLDING PARTITION W/ (3) DMB & (2) EB - BOTH SIDES
CLASSROOM
H09B
FE-1

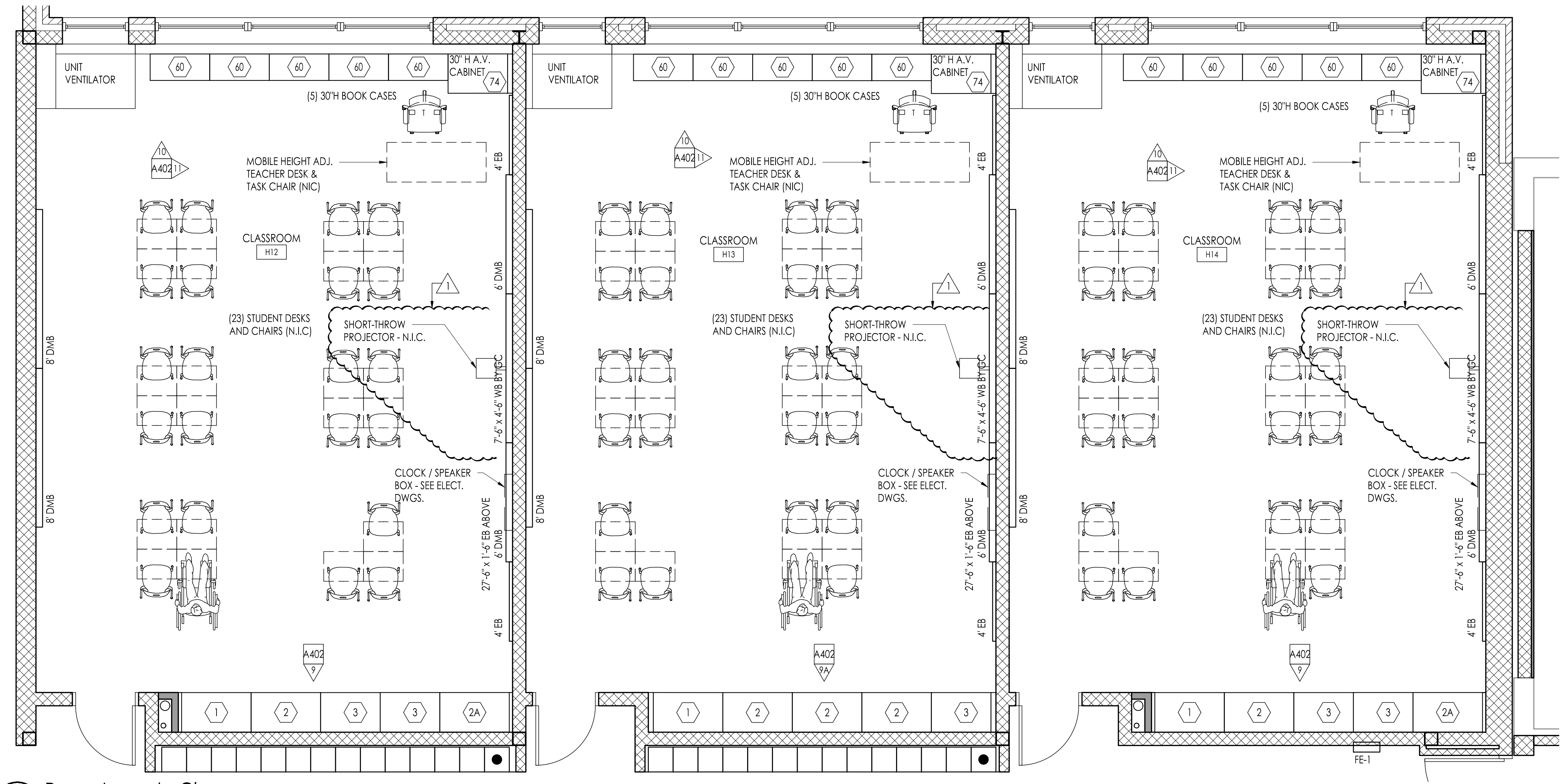
2 Room Layout - Classrooms
Scale: 1/4" = 1'-0"
H09 H26


4' DMB
7'-6" x 4'-6" WB BY GC
15'-6" x 1'-6" EB ABOVE
CLOCK / SPEAKER BOX - SEE ELECT. DWGS.
SHORT-THROW PROJECTOR - N.I.C.
UNIT VENTILATOR
MOBILE HEIGHT ADJ. TEACHER DESK & TASK CHAIR (NIC)
12 STUDENT DESKS AND CHAIRS (N.I.C.)
CLASSROOM
H26A
FOLDING PARTITION W/ (3) DMB & (2) EB - BOTH SIDES
CLASSROOM
H26B
30"H BASE AV CABINET
FE-1

5 Room Layout - Classrooms
Scale: 1/4" = 1'-0"
H09 H26


30"H BASE AV CABINET
4' EB
4' DMB
19'-6" x 1'-6" EB ABOVE
7'-6" x 4'-6" WB BY GC
CLOCK / SPEAKER BOX - SEE ELECT. DWGS.
HEIGHT ADJ. TEACHER DESK & TASK CHAIR (NIC)
SHORT-THROW PROJECTOR - N.I.C.
SGI.
C202
6' EB
12 STUDENT DESKS AND CHAIRS (N.I.C.)
5690
FAN ROOM
C202A

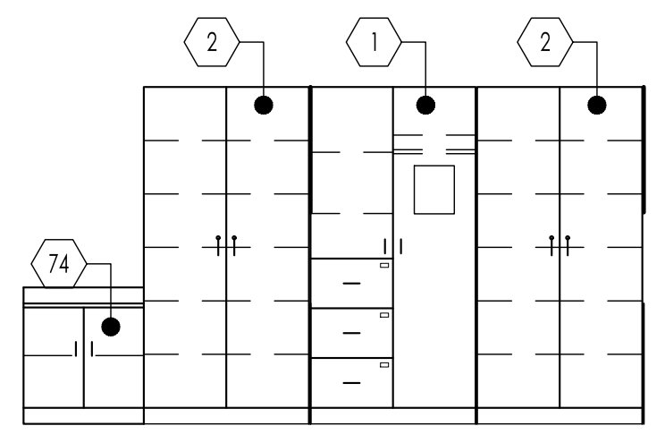
6 Room Layout - S.G.I.
Scale: 1/4" = 1'-0"
C202


UNIT VENTILATOR
30" H.A.V. CABINET
(5) 30"H BOOK CASES
MOBILE HEIGHT ADJ. TEACHER DESK & TASK CHAIR (NIC)
CLASSROOM
H12
CLASSROOM
H13
CLASSROOM
H14
(23) STUDENT DESKS AND CHAIRS (N.I.C)
SHORT-THROW PROJECTOR - N.I.C.
CLOCK / SPEAKER BOX - SEE ELECT. DWGS.
8' DMB
4' DMB
4' EB
7'-6" x 4'-6" WB BY GC
27'-6" x 1'-6" EB ABOVE
FE-1

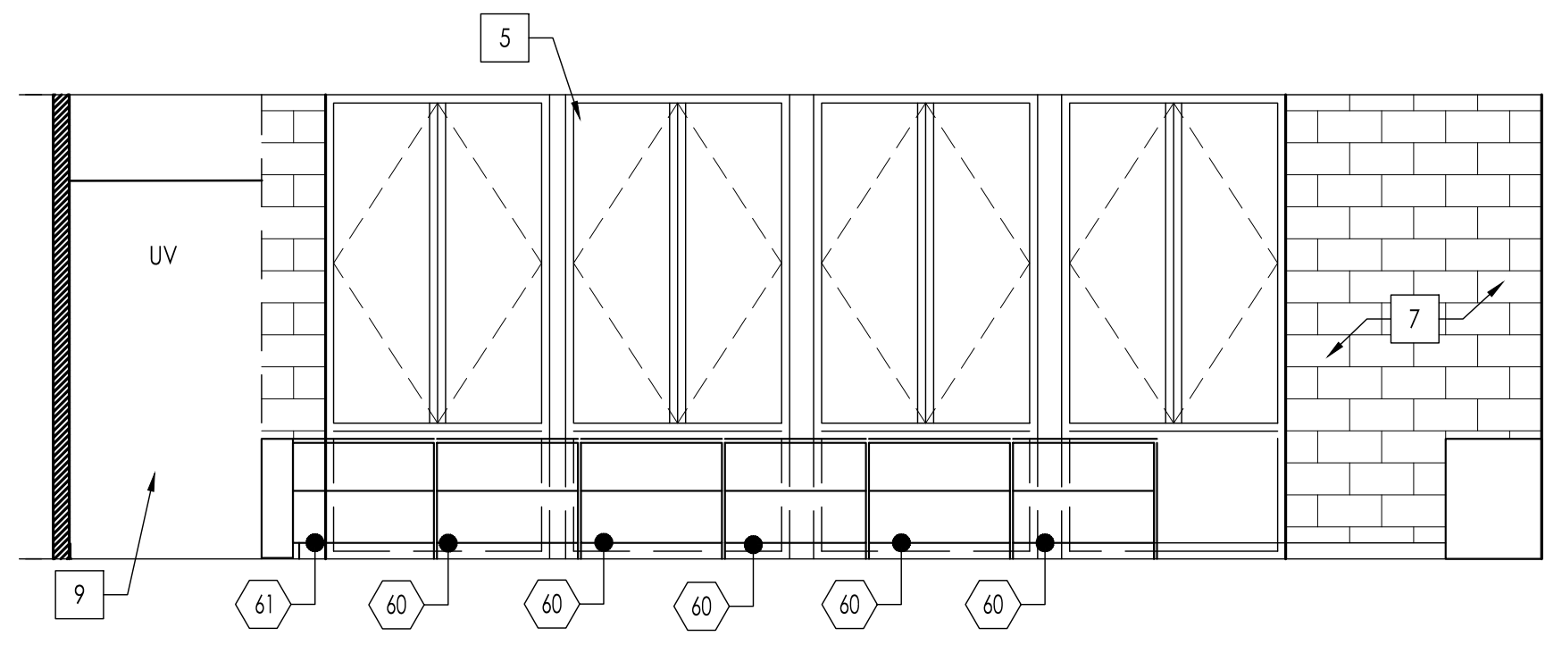
3 Room Layout - Classrooms
Scale: 1/4" = 1'-0"
H12 H13 H14

KEY NOTE LEGEND

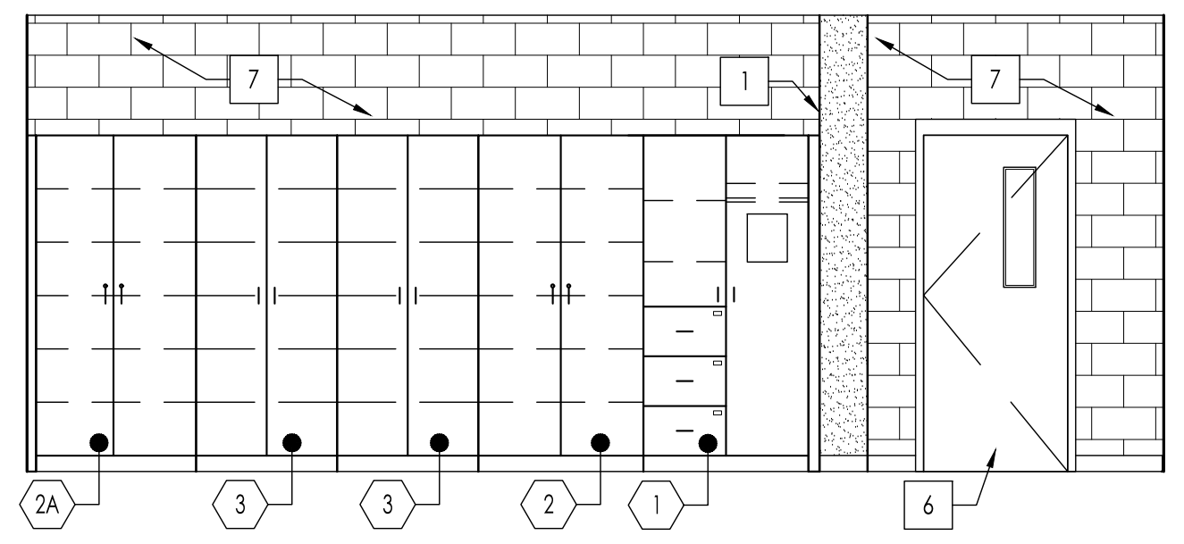
1	GYP BOARD PAINTED
2	NOT USED
3	NOT USED
4	EXIST CMU BLOCK WALL, PAINTED, REFER TO ROOM FINISH SCHEDULE
5	ALUMINUM WINDOW SYSTEM, REF A600 SERIES DRAWINGS
6	WOOD DOOR AND HOLLOW METAL FRAME, REF DOOR SCHEDULE
7	EXPOSED CMU PAINTED, RUNNING BOND
8	CLOCK/SPEAKER BOX, REF ELECT. DRAWINGS FOR DETAILS
9	VERTICAL UNIT VENTILATOR REFER TO MECHANICAL DRAWINGS FOR DETAILS
10	SHORT THROW PROJECTOR - N.I.C.
11	FURNITURE/ EQUIPMENT NOT IN CONTRACT, FOR REFERENCE ONLY
12	TEACHING WALL, REF 1/A400 FOR TYP CONDITION
13	4" RUBBER BASE, REF ROOM FINISH SCHEDULE FOR DETAILS
14	OPERABLE PARTITION, REF SPECS



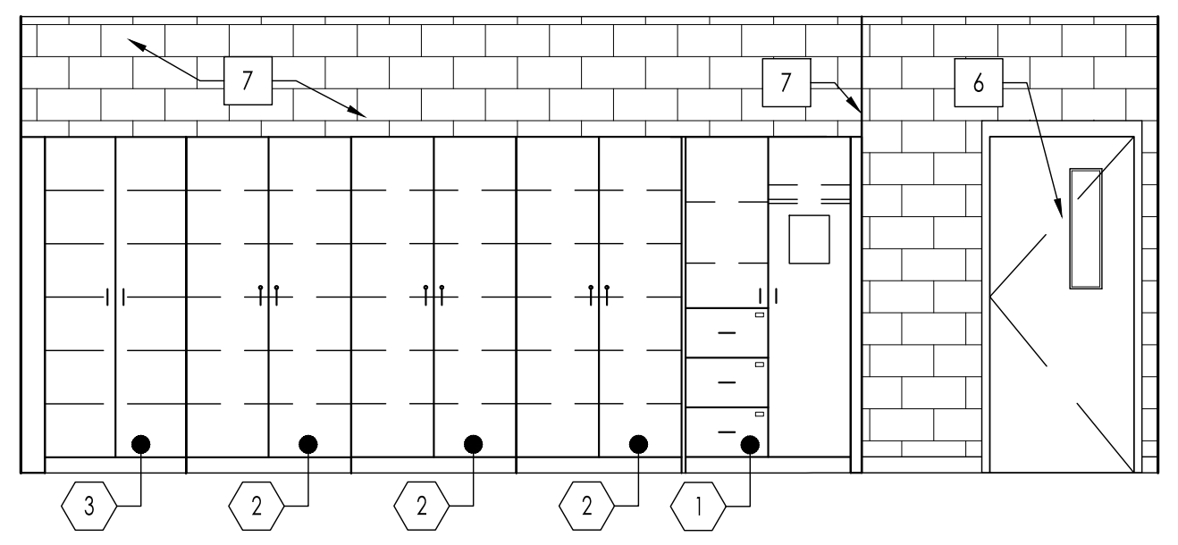
7 Typical Casework Elevation
1/4" = 1'-0"



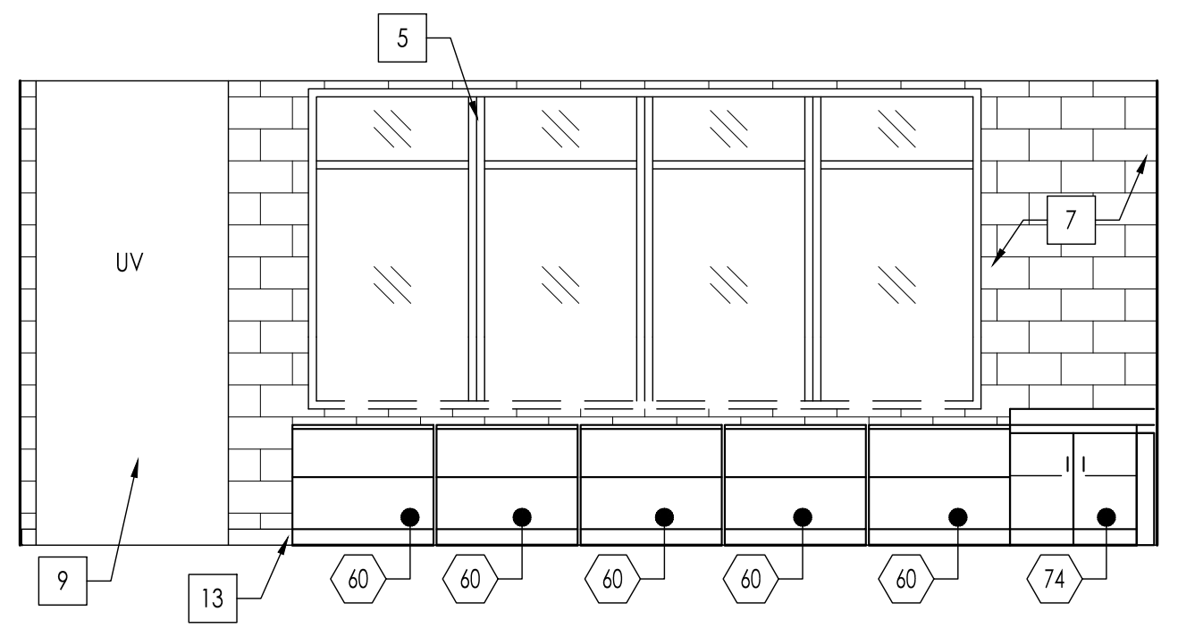
8 Typical Classroom Casework Elevation
1/4" = 1'-0"



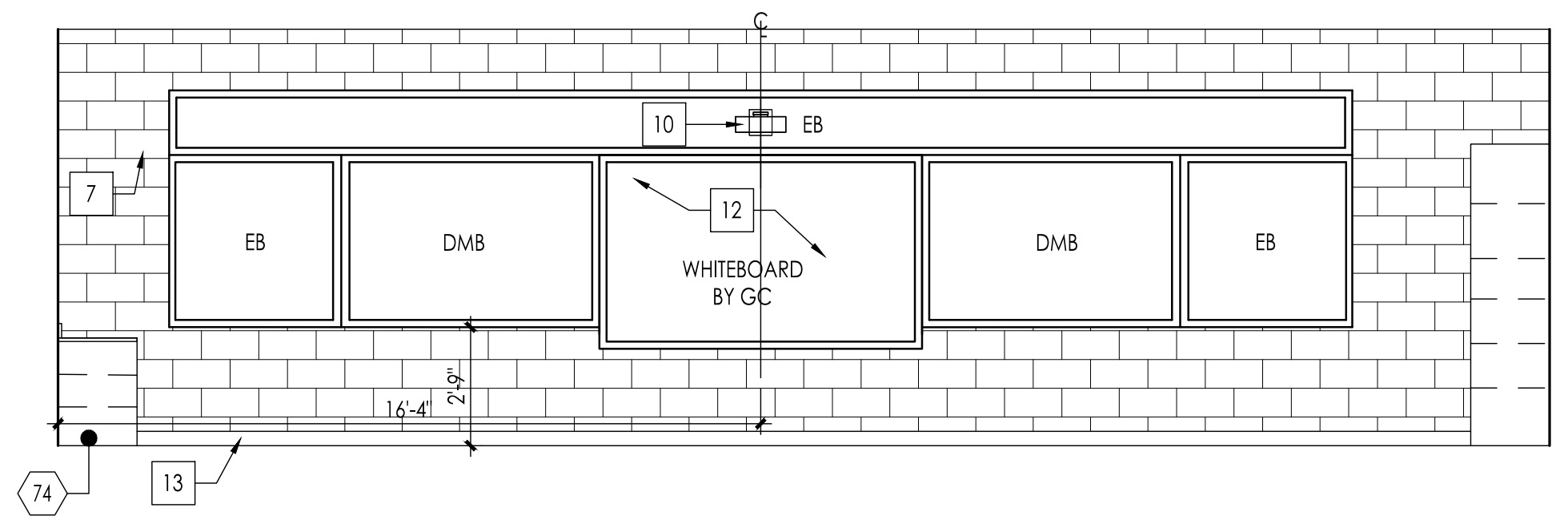
9 Classroom Interior Elevation
1/4" = 1'-0"
H12 H14 OP. HAND



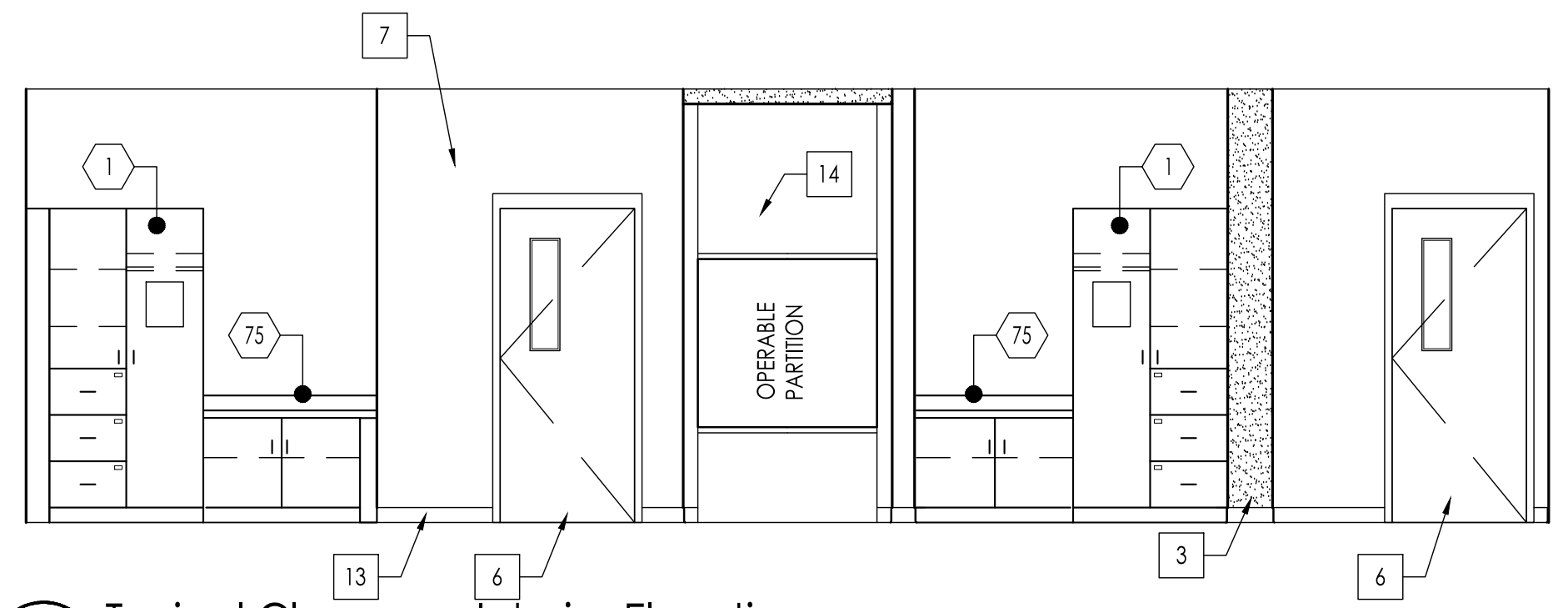
9A Classroom Interior Elevation
1/4" = 1'-0"
H13



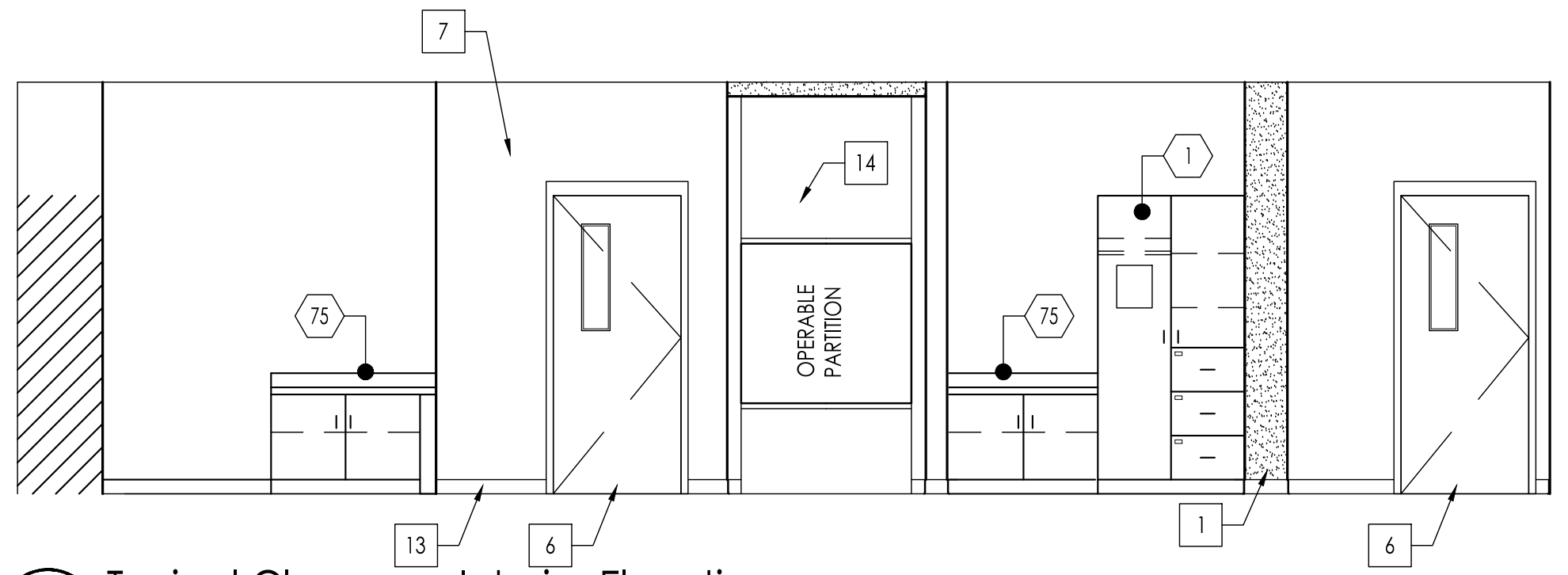
10 Typical Classroom Interior Elevation
1/4" = 1'-0"
H12 H13 H14



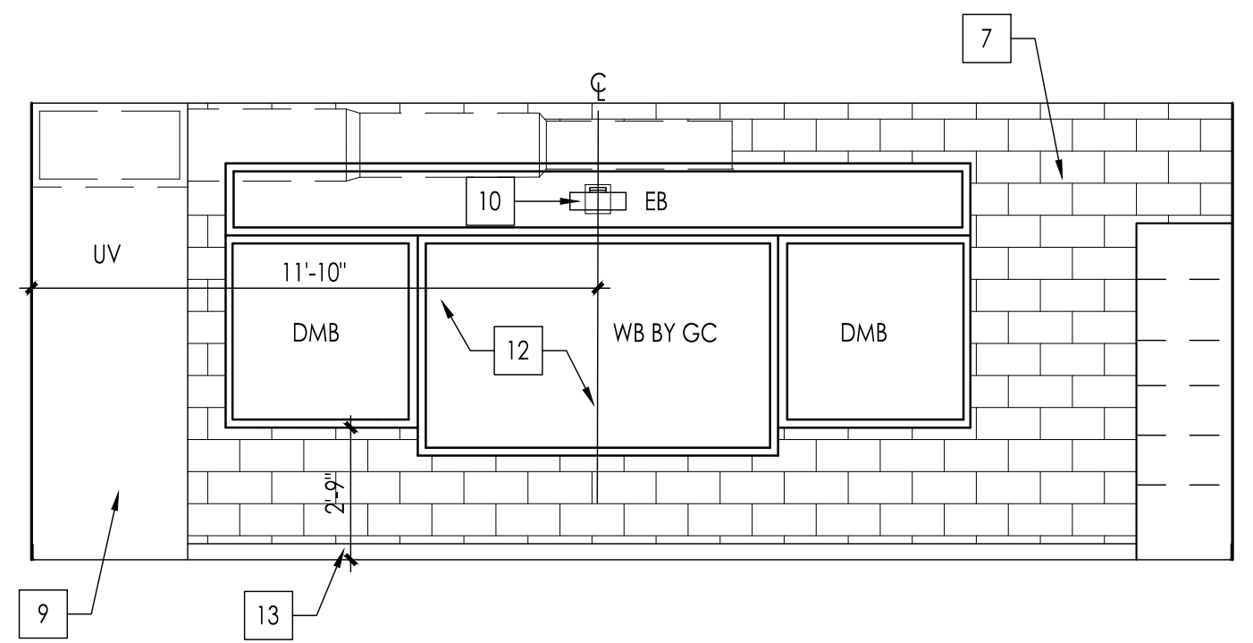
11 Typical Classroom Interior Elevation
1/4" = 1'-0"
H12 H13 H14



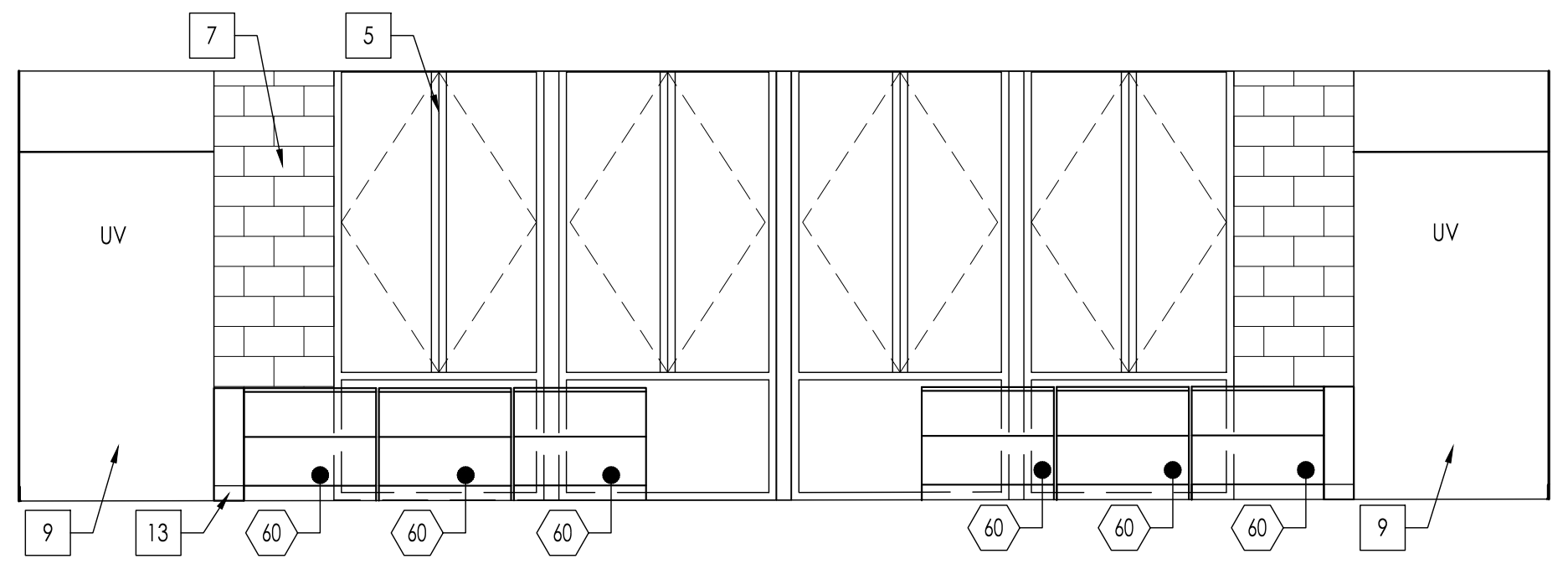
12 Typical Classroom Interior Elevation
1/4" = 1'-0"
H09A H26B



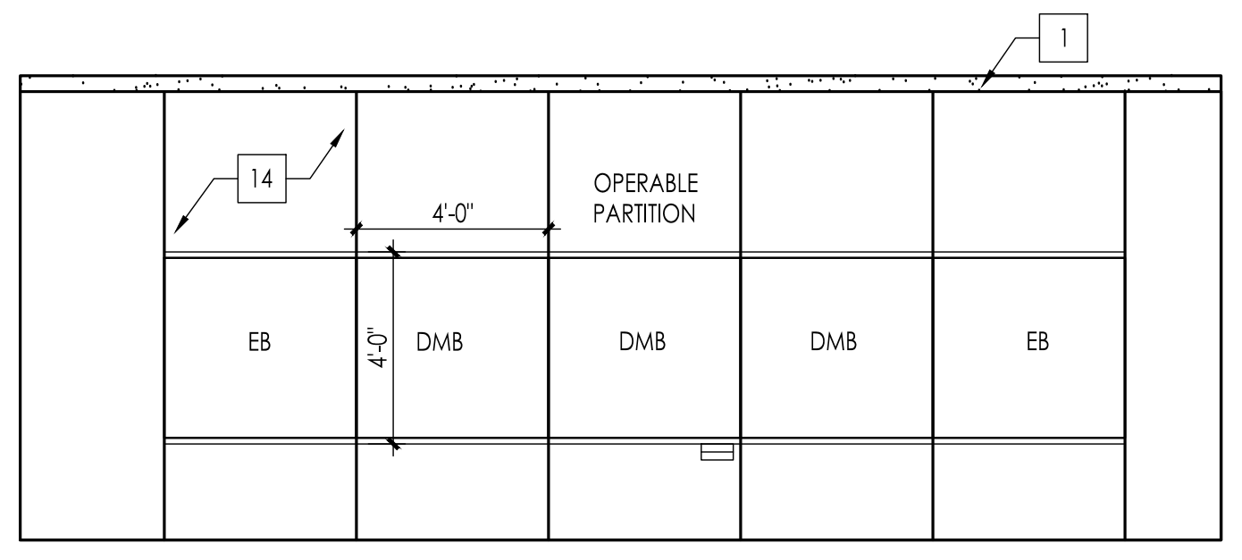
12A Typical Classroom Interior Elevation
1/4" = 1'-0"
H26A H26B



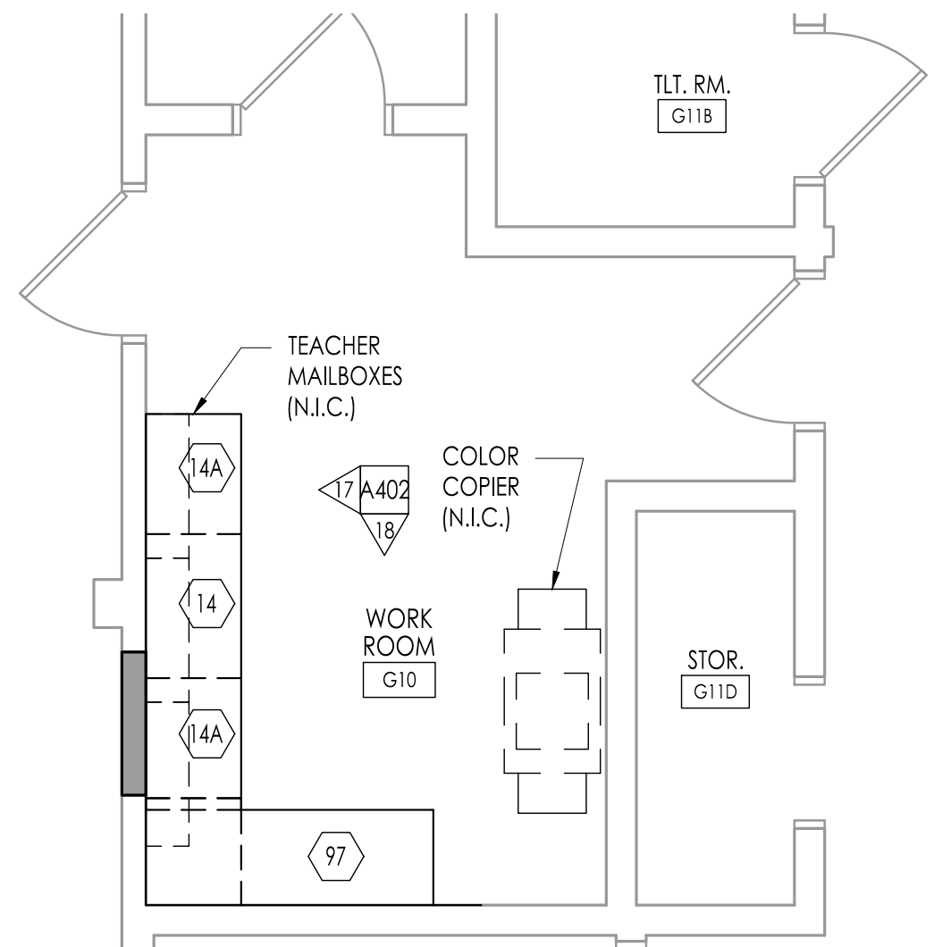
13 Typical Classroom Interior Elevation
1/4" = 1'-0"
H09 H26



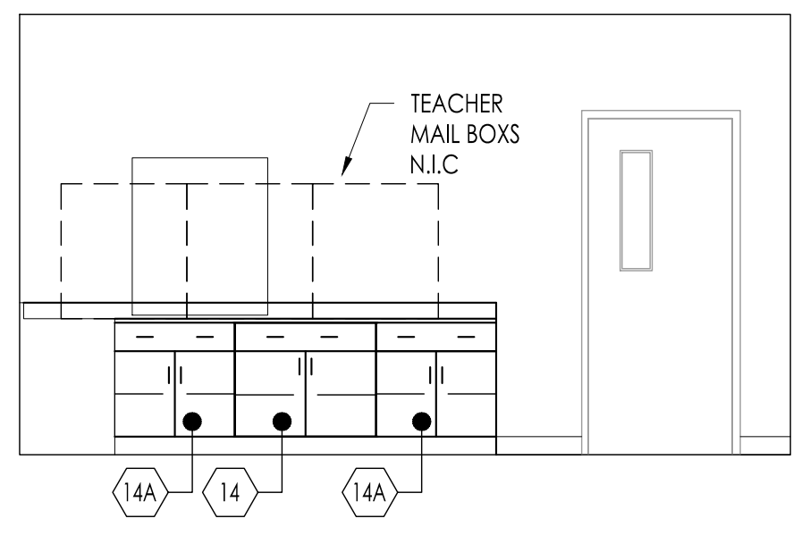
14 Typical Classroom Interior Elevation
1/4" = 1'-0"
H09 H26



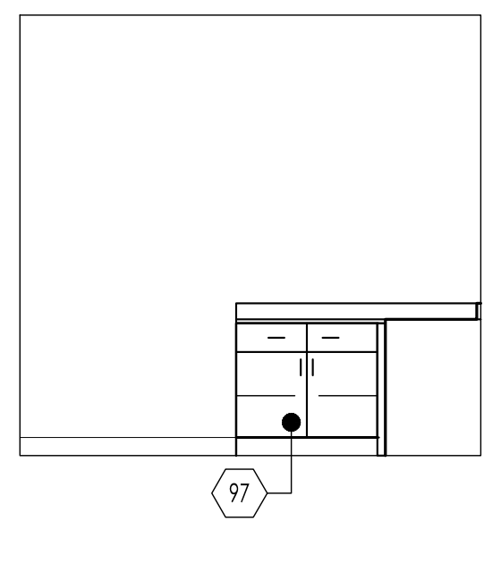
15A-B Typical Classroom Divider Wall Interior Elevation
1/4" = 1'-0"
H09 H26A H26B



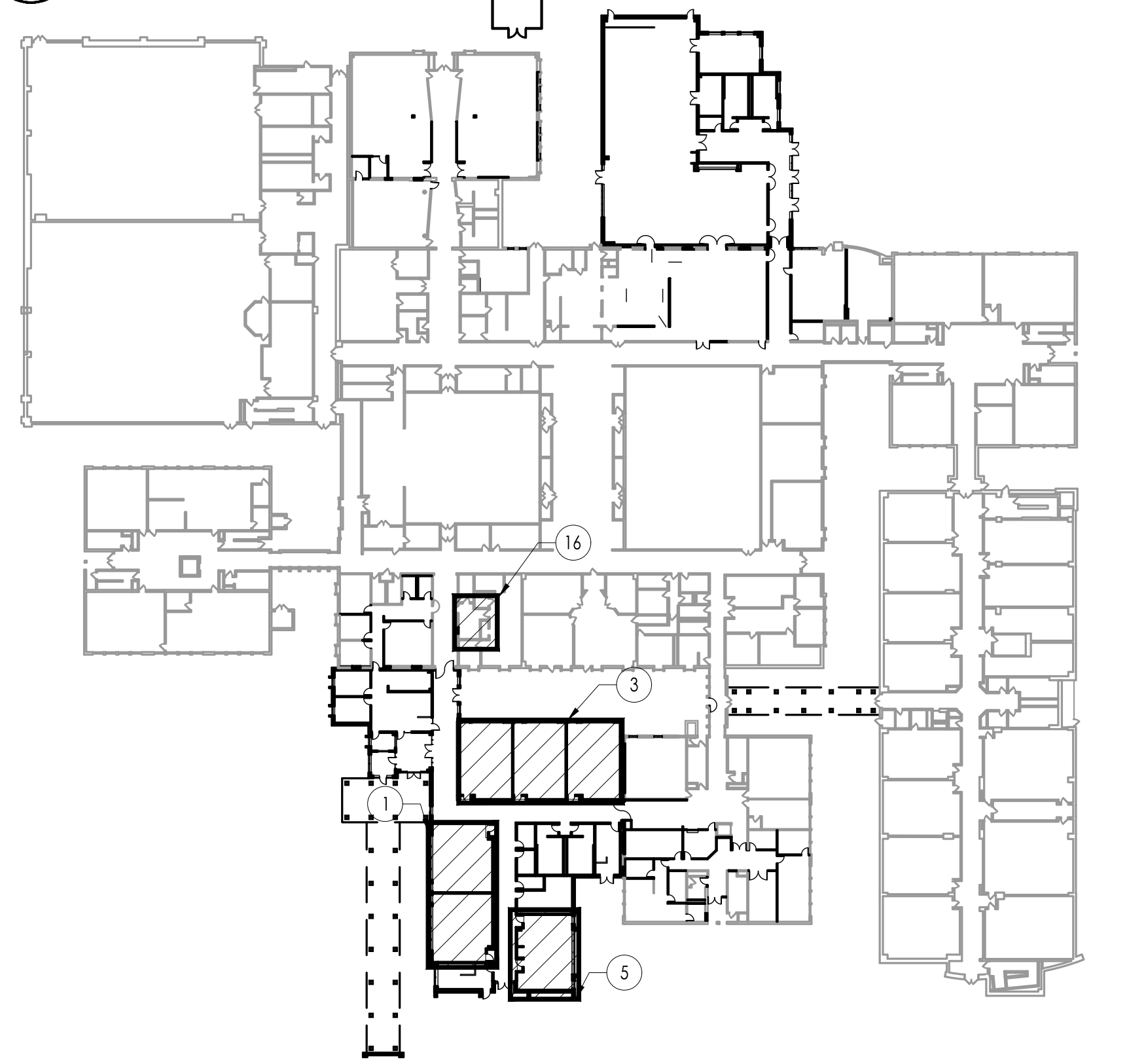
16 Work Room G10
1/4" = 1'-0"



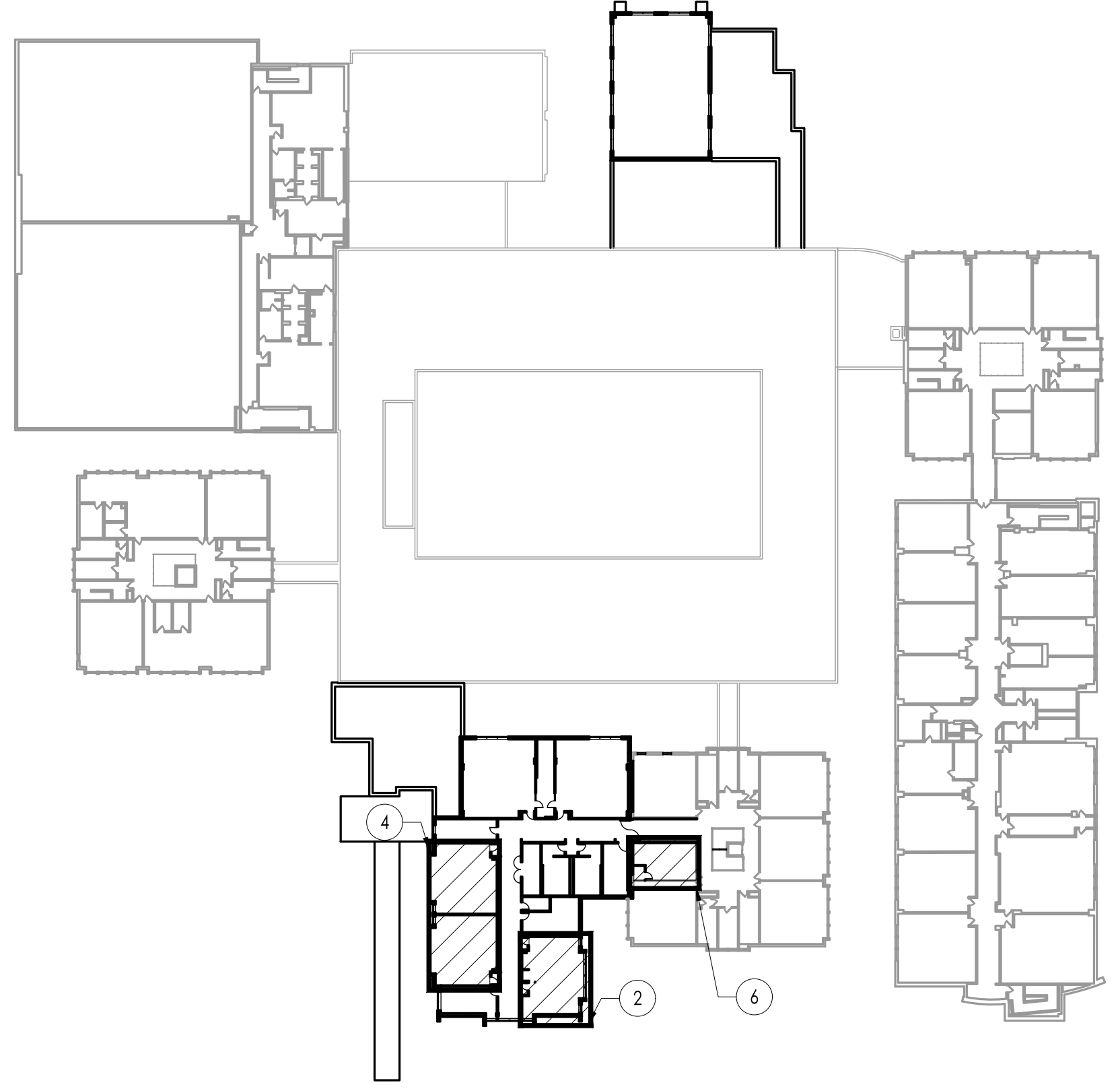
17 Work Room G10 Elevation
1/4" = 1'-0"



18 Work Room G10 Elevation
1/4" = 1'-0"



Key Plan - First Floor
Scale: 1/64" = 1'-0"



Key Plan - Second Floor
Scale: 1/64" = 1'-0"

NJDCA Electronic Release Stamp

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ - 21AI01706000 | PA - RA012520X
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Architect
10/10/25
Date

FVHD architects planners
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Trenton - New Jersey 08628
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Mont Clare - Pennsylvania 19453
F V H D P C . C O M

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

Project Number
5516B

Project Date
10.10.2025

Checked By
GRD

Drawn By
KAM

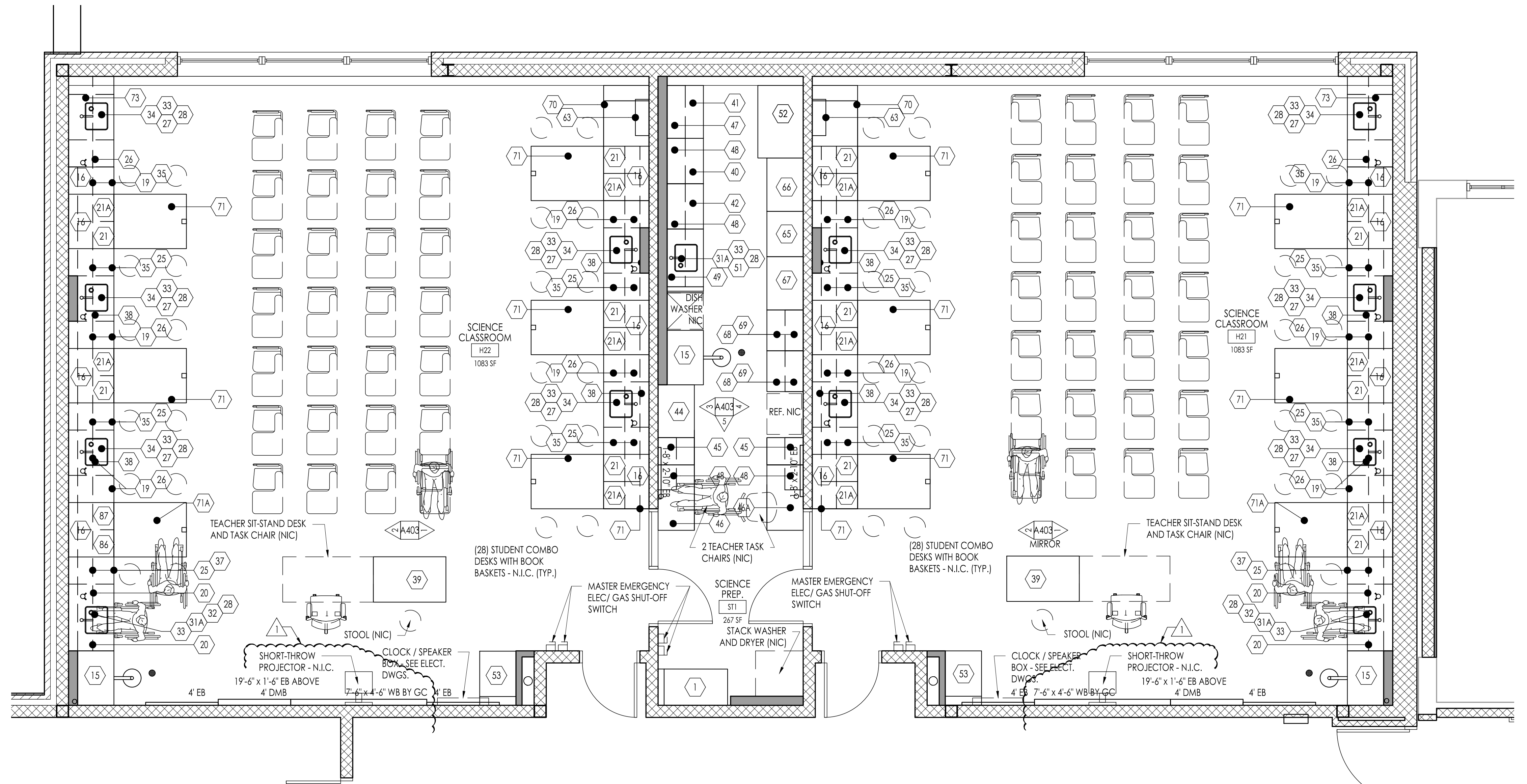
Scale
AS NOTED

Drawing Name
Enlarged Plans & Interior Elevations - Classrooms, SGI & Work Room G10

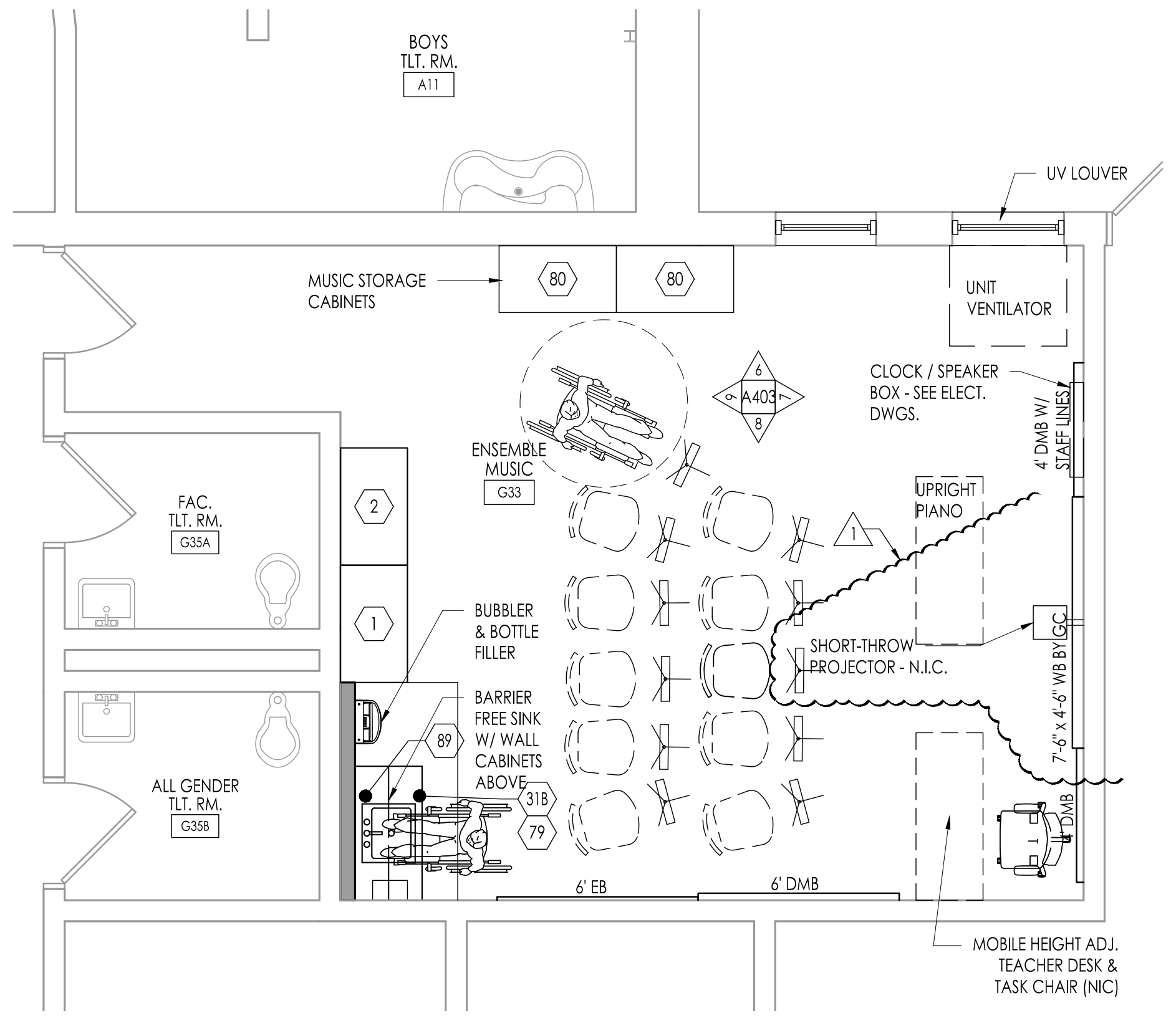
Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
1	1.14.26	ADDENDUM 1

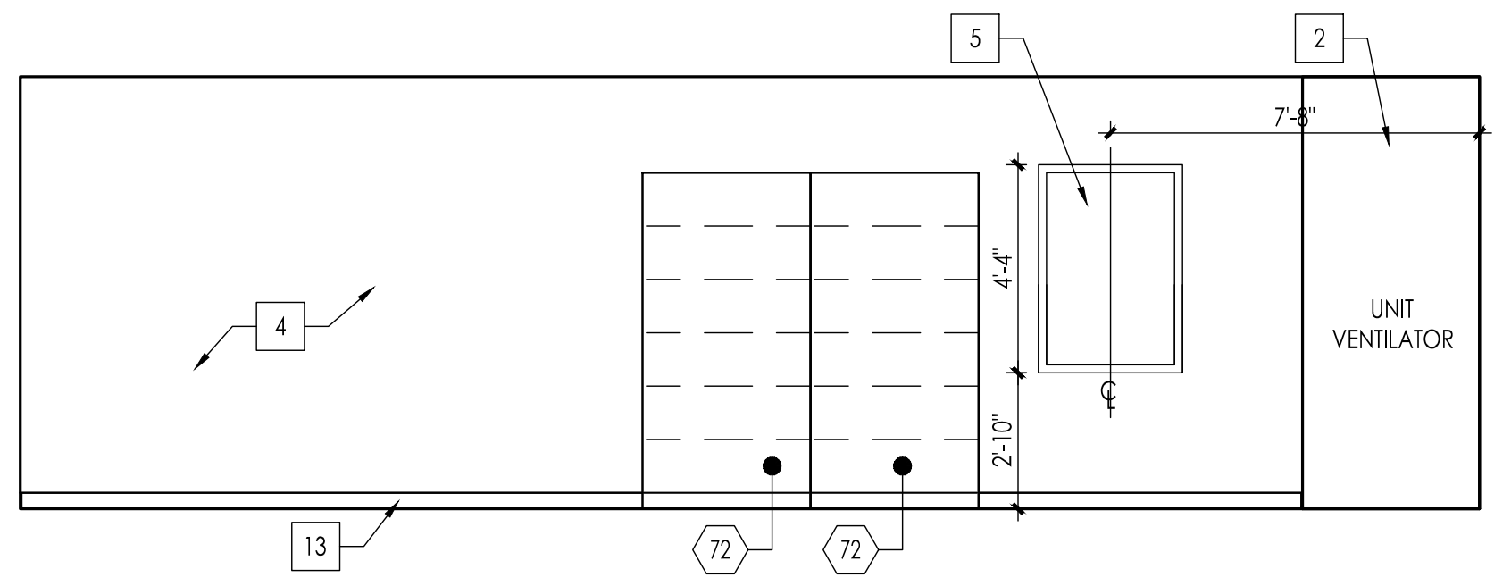
Drawing Number
A402


SCIENCE CLASSROOM
H22
1083 SF
SCIENCE CLASSROOM
H21
1083 SF
SCIENCE PREP.
ST1
267 SF
TEACHER SIT-STAND DESK AND TASK CHAIR (NIC)
(28) STUDENT COMBO DESKS WITH BOOK BASKETS - N.I.C. (TYP.)
2 TEACHER TASK CHAIRS (NIC)
MASTER EMERGENCY ELEC/ GAS SHUT-OFF SWITCH
STACK WASHER AND DRYER (NIC)
DISH WASHER NIC
REF. NIC
STOOL (NIC)
SHORT-THROW PROJECTOR - N.I.C.
19'-6" x 1'-6" EB ABOVE
4' DMB
4' EB
7'-6" x 4'-6" WB BY GC
CLOCK / SPEAKER BOX - SEE ELECT. DWGS.
A403
MIRROR
STOR. / ROOF ACCESS

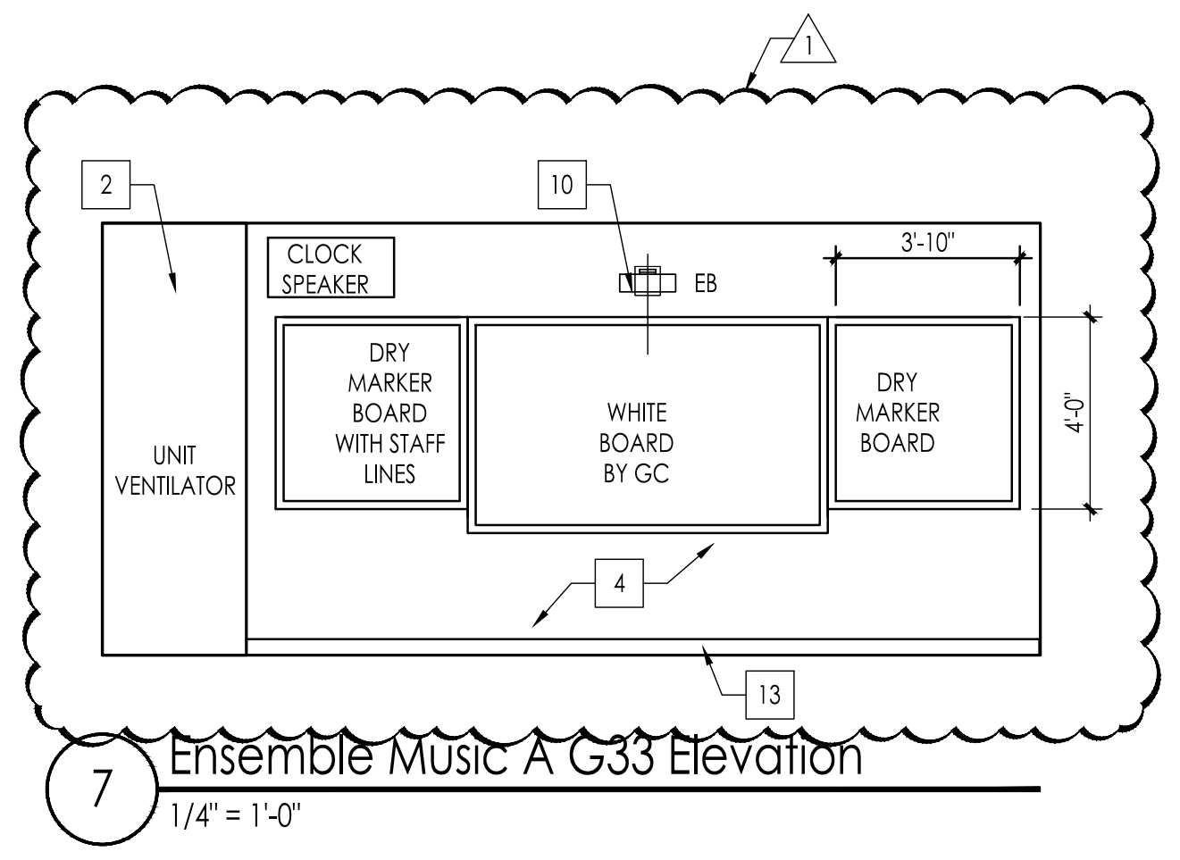
A Room Layout - Science Classrooms, Prep
Scale: 1/4" = 1'-0"
H20 H21 ST1



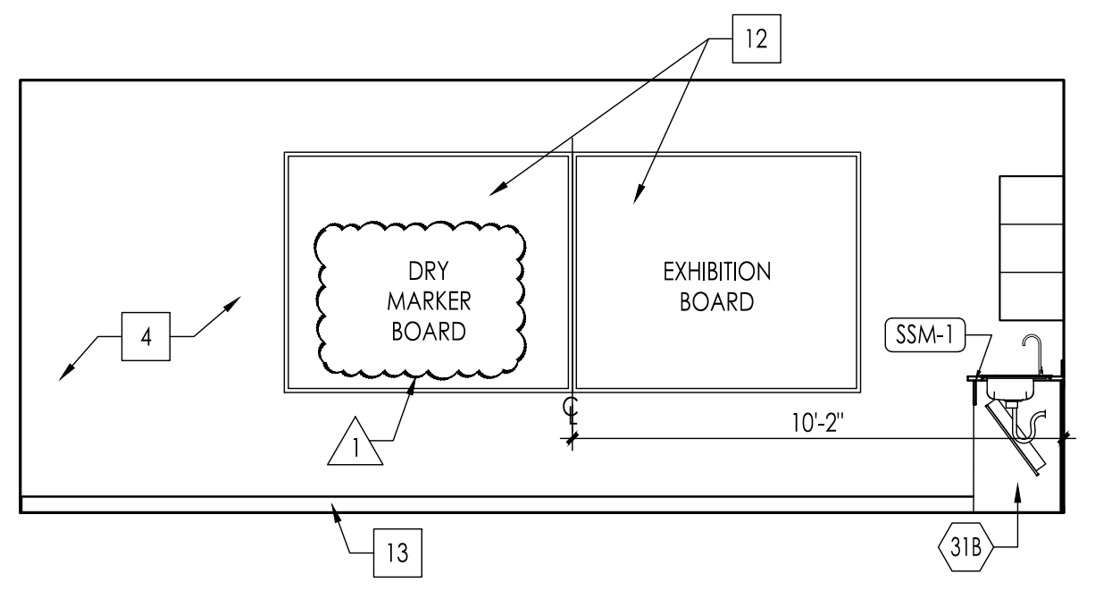
B Room Layout - Ensemble Music (Alt.Bid)
Scale: 1/4" = 1'-0"
G33



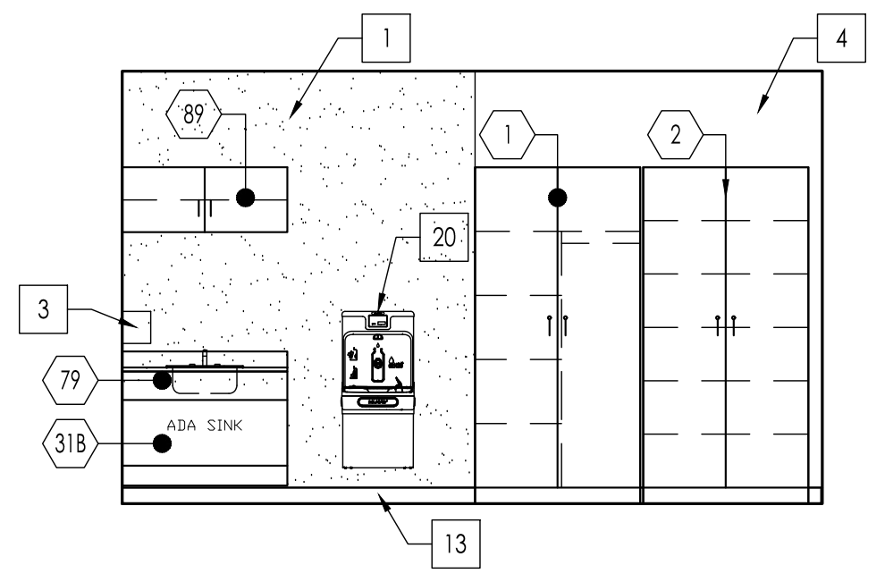
6 Ensemble Music A G33 Elevation
1/4" = 1'-0"



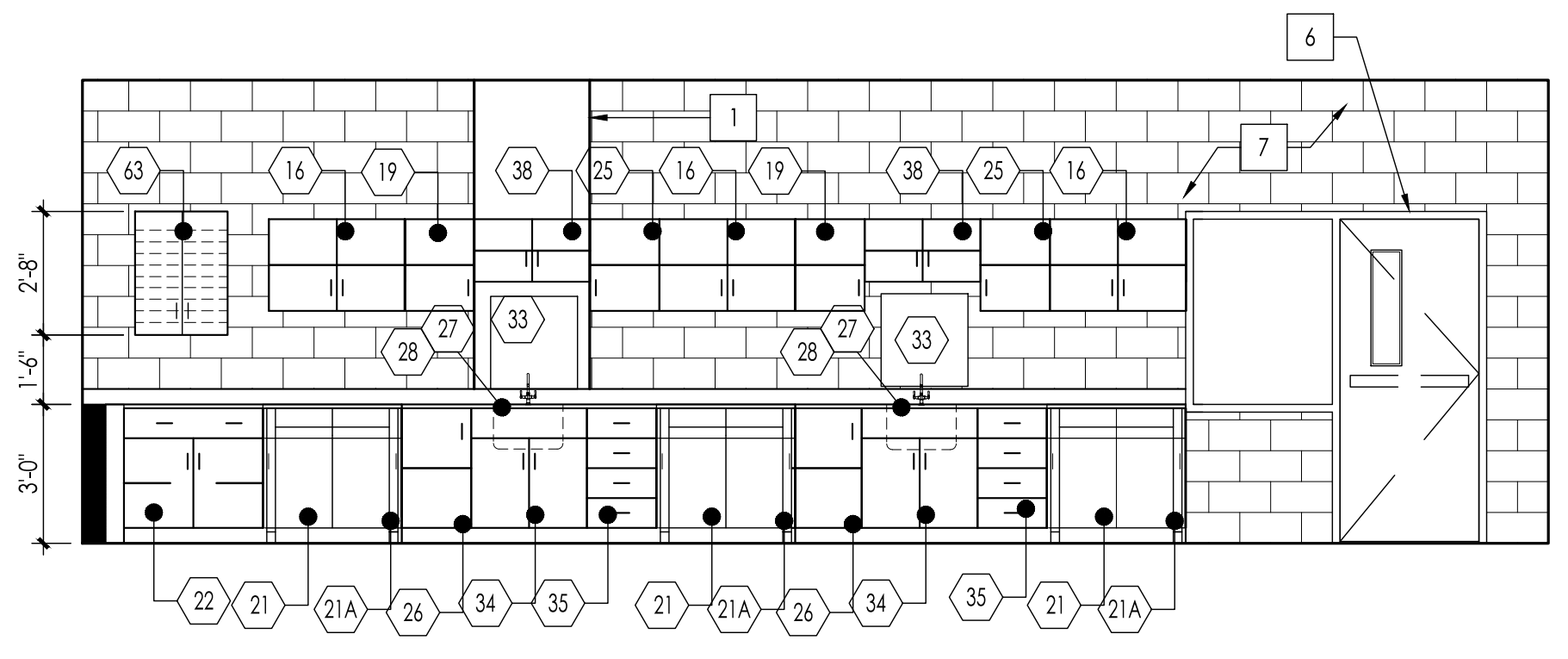
7 Ensemble Music A G33 Elevation
1/4" = 1'-0"



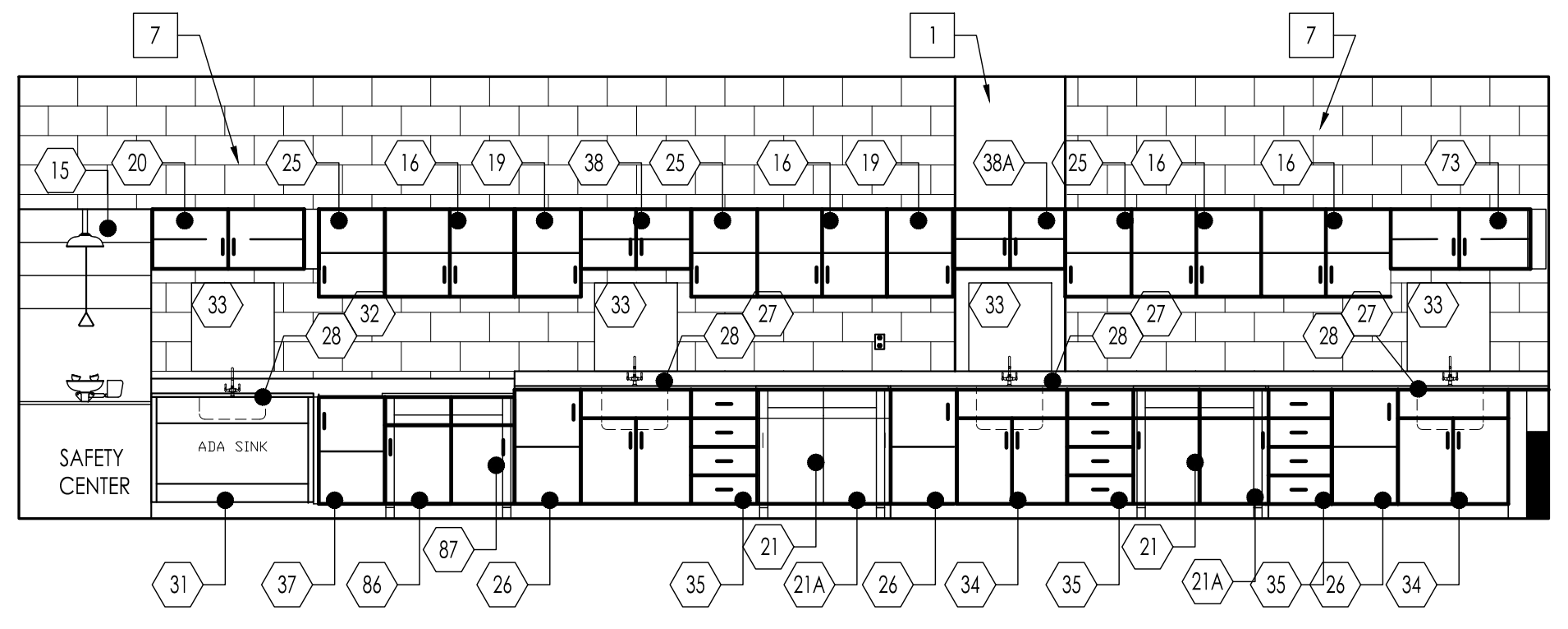
8 Ensemble Music A G33 Elevation
1/4" = 1'-0"



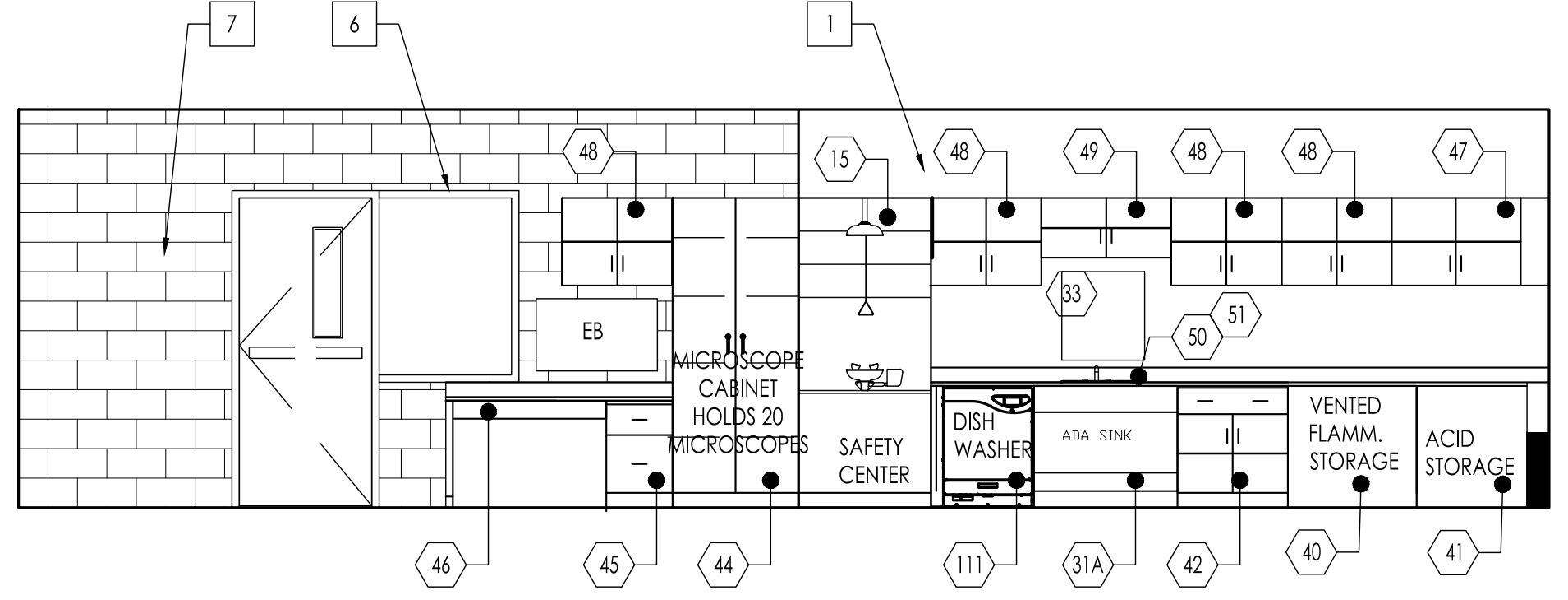
9 Ensemble Music A G33 Elevation
1/4" = 1'-0"



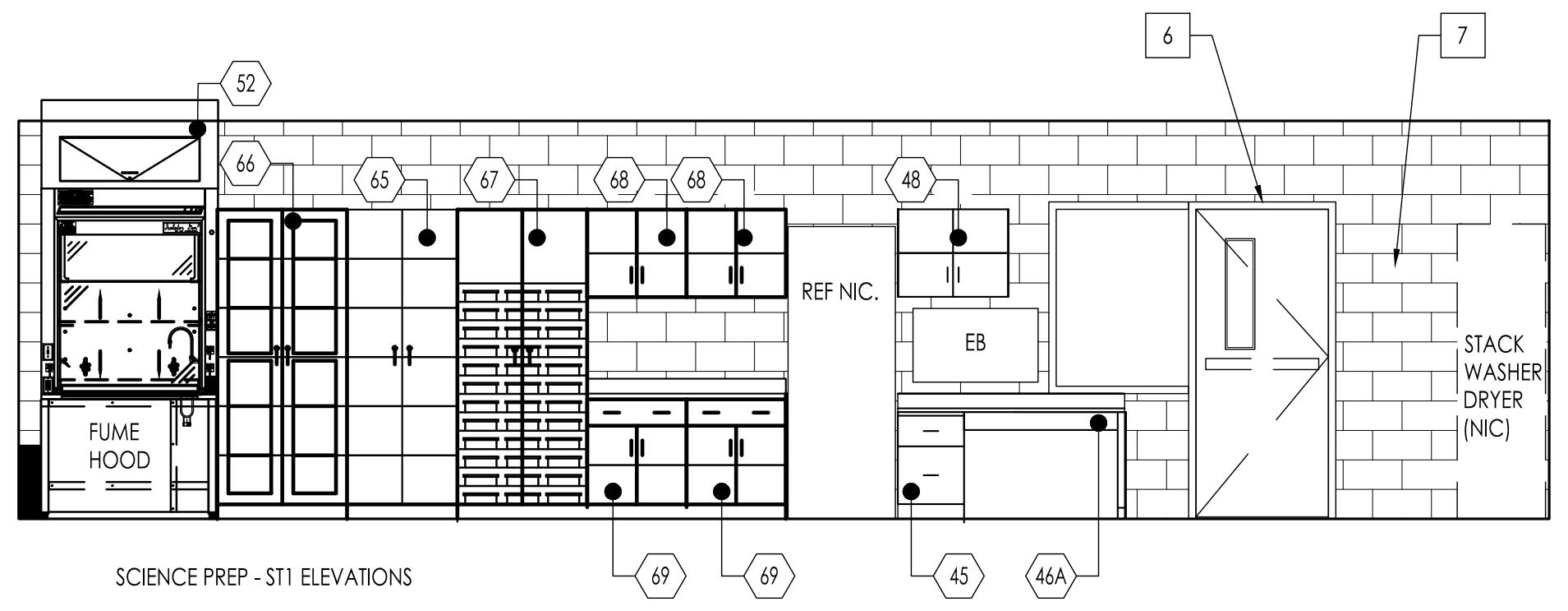
1 Science Classroom Interior Elevation
1/4" = 1'-0"



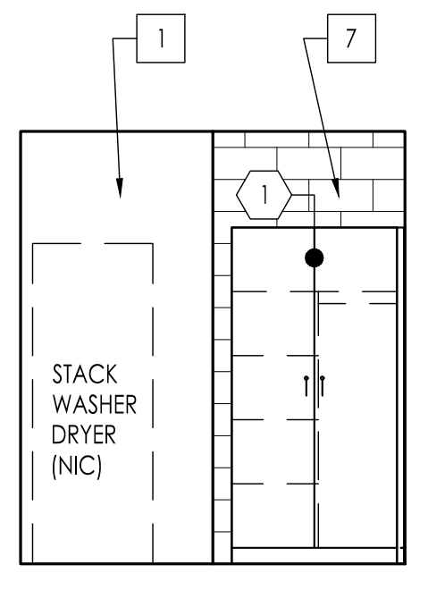
2 Science Classroom Interior Elevation
1/4" = 1'-0"



3 Science Prep Room Interior Elevation
Scale: 1/4" = 1'-0"



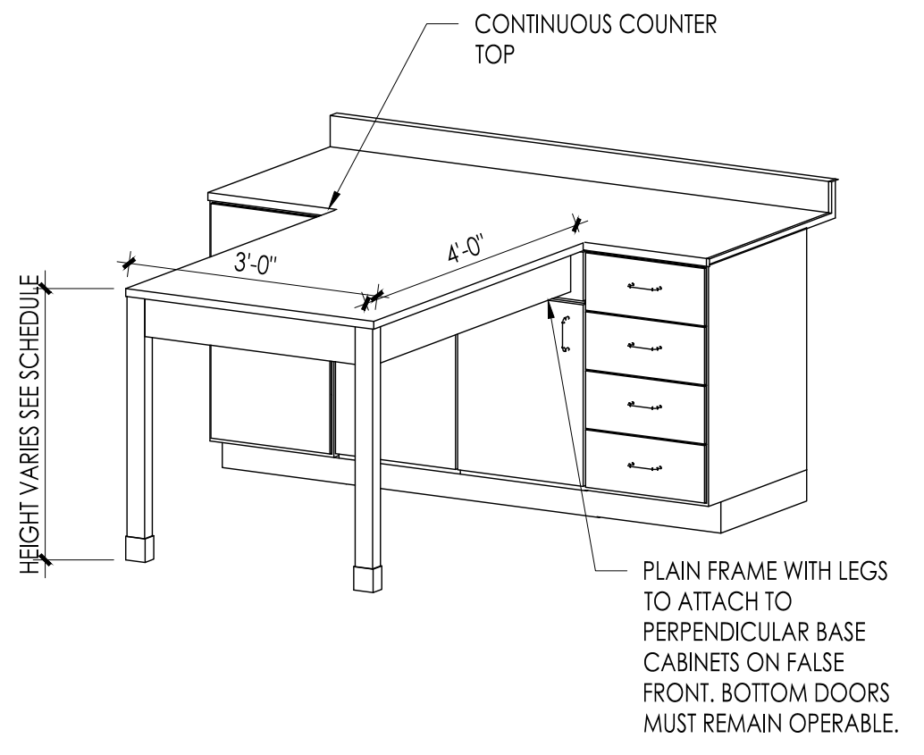
4 Science Prep Room Interior Elevation
Scale: 1/4" = 1'-0"



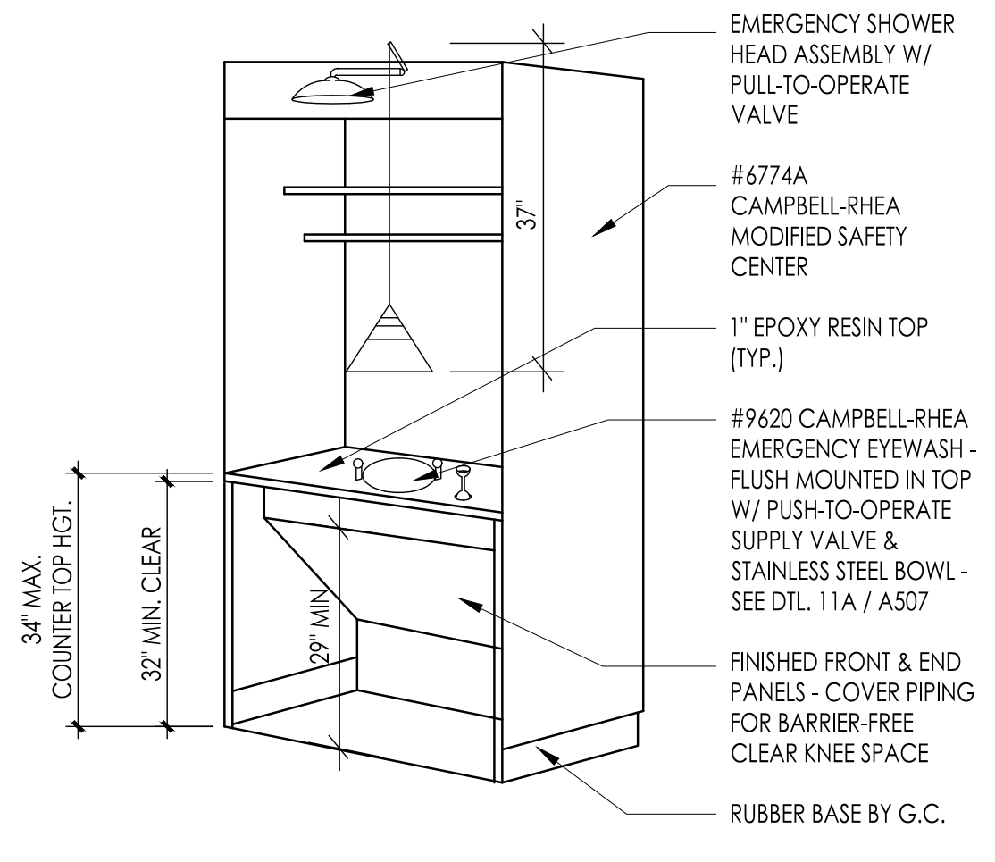
5 Science Prep Room Interior Elevation
1/4" = 1'-0"

KEY NOTE LEGEND

1	GYP BOARD PAINTED
2	UNIT VENTILATOR
3	SOAP/PAPER TOWEL DISPENSER, REF 4/A400 FOR TYP CONDITION
4	EXIST CMU BLOCK WALL, PAINTED, REFER TO ROOM FINISH SCHEDULE
5	ALUMINUM WINDOW SYSTEM, REF A600 SERIES DRAWINGS
6	WOOD DOOR AND HOLLOW METAL FRAME, REF DOOR SCHEDULE
7	EXPOSED CMU PAINTED, RUNNING BOND
8	CLOCK/SPEAKER BOX, REF ELECT. DRAWINGS FOR DETAILS
9	VERTICAL UNIT VENTILATOR REFER TO MECHANICAL DRAWINGS FOR DETAILS
10	SHORT THROW PROJECTOR - N.I.C.
11	FURNITURE/ EQUIPMENT NOT IN CONTRACT, FOR REFERENCE ONLY
12	TEACHING WALL, REF 1/A400 FOR TYP CONDITION
13	4" RUBBER BASE, REF ROOM FINISH SCHEDULE FOR DETAILS
14	OPERABLE PARTITION, REF SPECS

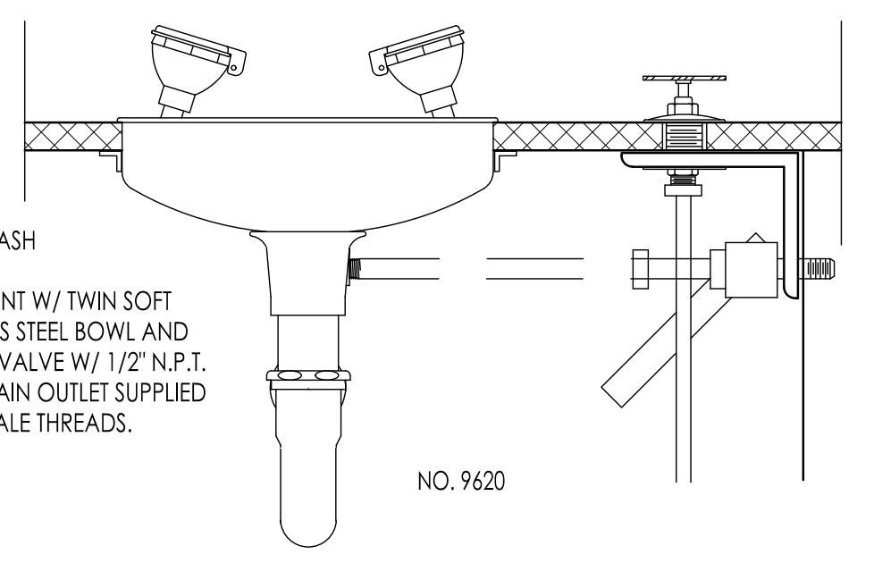

CONTINUOUS COUNTER TOP
3'-0"
4'-0"
HEIGHT VARIES SEE SCHEDULE
PLAIN FRAME WITH LEGS TO ATTACH TO PERPENDICULAR BASE CABINETS ON FALSE FRONT. BOTTOM DOORS MUST REMAIN OPERABLE.

10 Student Work Station Detail
Scale: 1/2" = 1'-0"


EMERGENCY SHOWER HEAD ASSEMBLY W/ PULL-TO-OPERATE VALVE
#6774A CAMPBELL-RHEA MODIFIED SAFETY CENTER
1" EPOXY RESIN TOP (TYP.)
#9620 CAMPBELL-RHEA EMERGENCY EYEWASH - FLUSH MOUNTED IN TOP W/ PUSH-TO-OPERATE SUPPLY VALVE & STAINLESS STEEL BOWL - SEE DTL. 11A / A507
FINISHED FRONT & END PANELS - COVER PIPING FOR BARRIER-FREE CLEAR KNEE SPACE
RUBBER BASE BY G.C.
37"
34" MAX. COUNTER TOP HGT.
32" MIN. CLEAR
29" MIN

PROVIDE (1) FIRE BLANKET AND (1) MULTI-PURPOSE DRY CHEMICAL TYPE UL RATED 2A:10:B:C 5 lb FIRE EXTINGUISHER AT EACH SAFETY CENTER - SEE SPECS

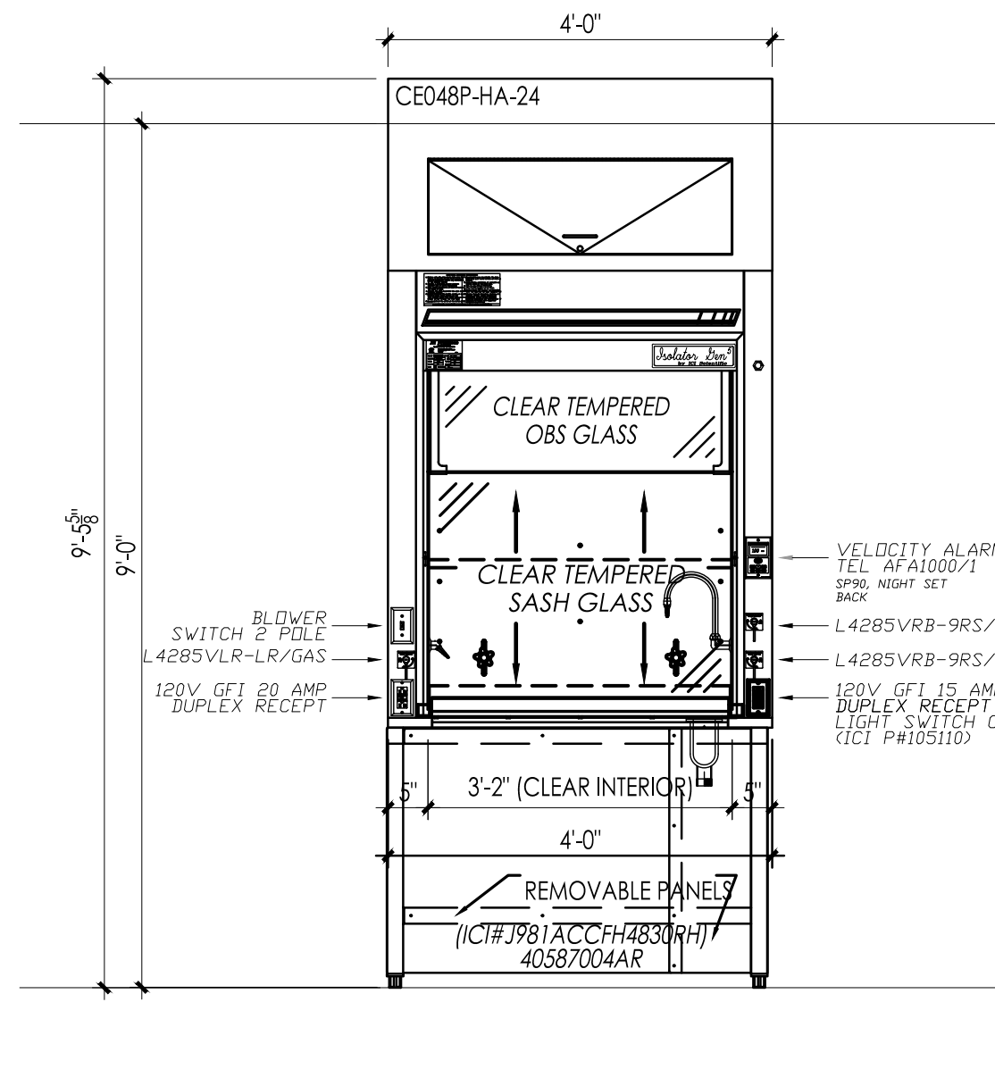
11 Saftey Canter Detail
Scale: N.T.S



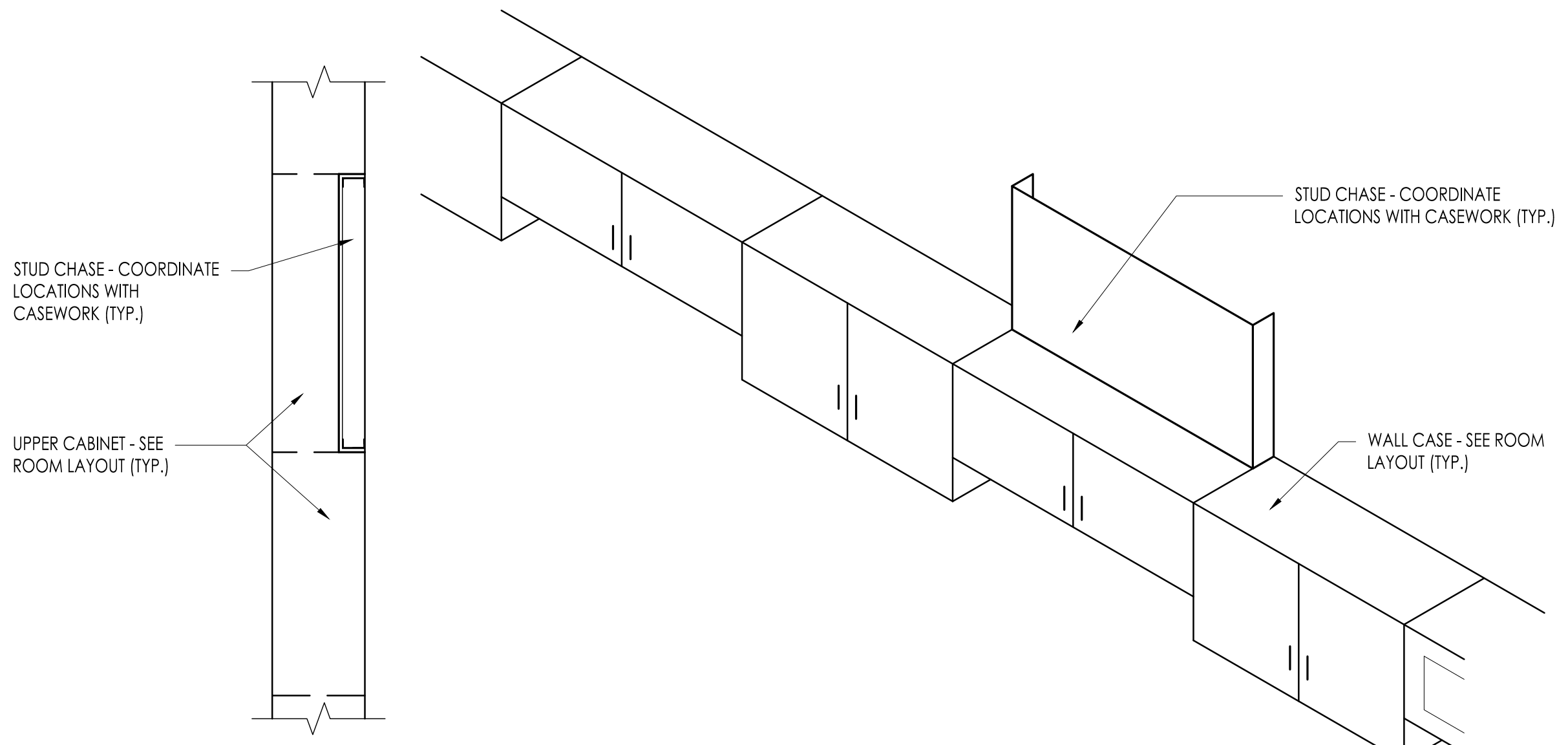
9620 EMERGENCY EYEWASH

RECESSED, COUNTER MOUNT W/ TWIN SOFT STREAM OUTLETS, STAINLESS STEEL BOWL AND PUSH TO OPERATE SUPPLY VALVE W/ 1/2" N.P.T. MALE THREADS. 1-1/4" DRAIN OUTLET SUPPLIED W/ A PLASTIC ADAPTER MALE THREADS.

11A Eye Wash Detail
Scale: N.T.S



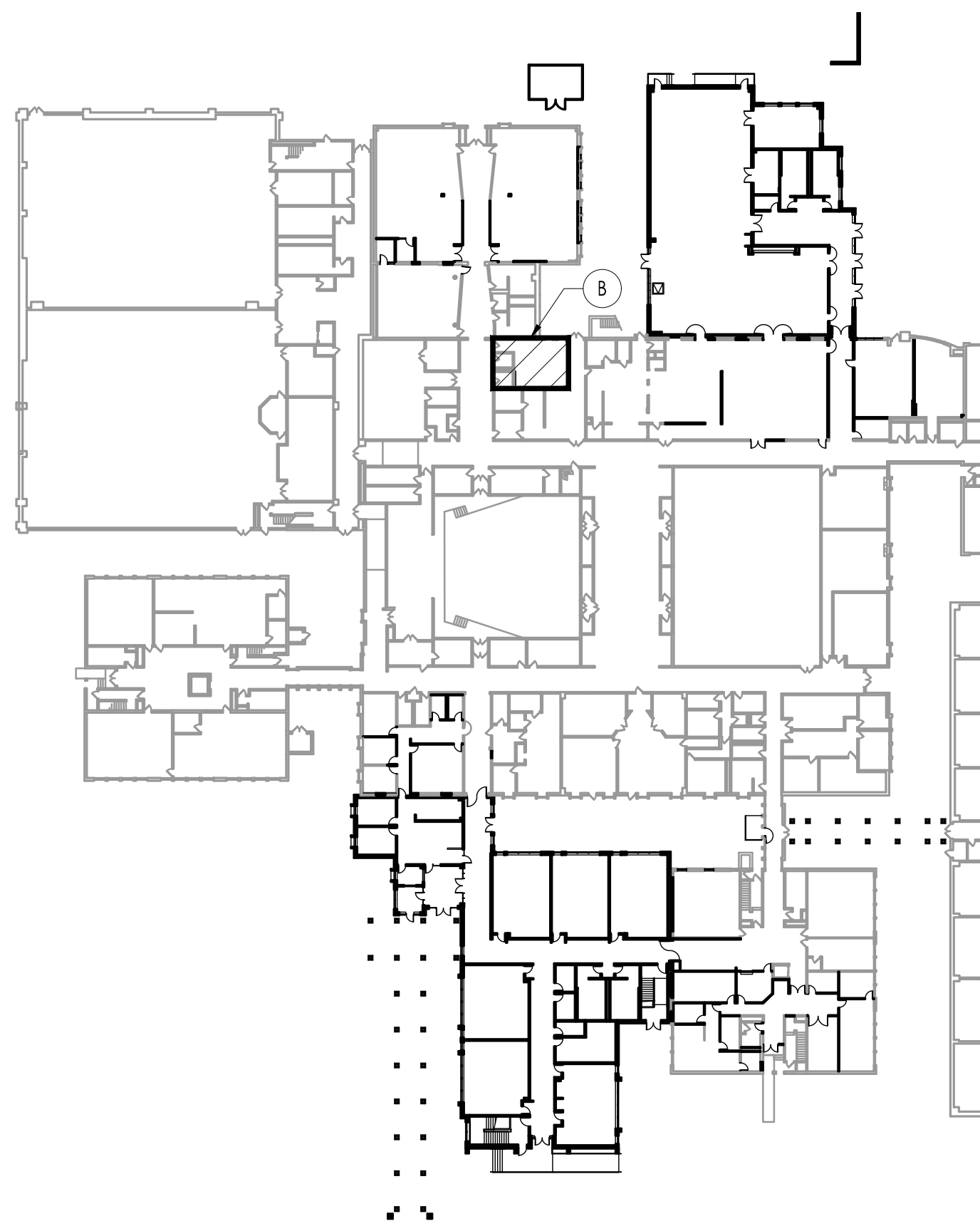
12 Fume Hood Detail
Scale: 1/2"=1'-0"


STUD CHASE - COORDINATE LOCATIONS WITH CASEWORK (TYP.)
UPPER CABINET - SEE ROOM LAYOUT (TYP.)
STUD CHASE - COORDINATE LOCATIONS WITH CASEWORK (TYP.)
WALL CASE - SEE ROOM LAYOUT (TYP.)

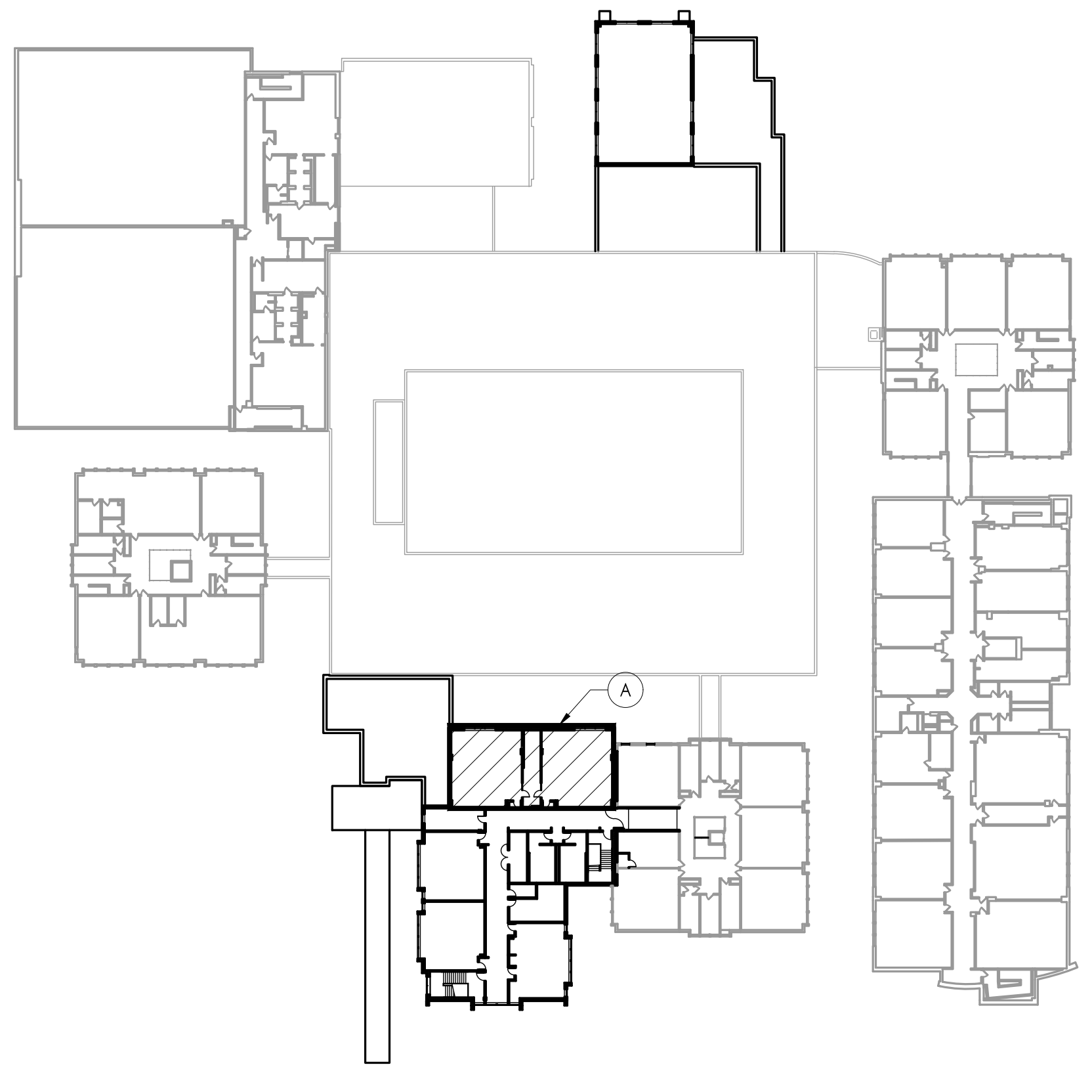
A PLAN
Scale: 1/2" = 1'-0"

B ISOMETRIC
Scale: N.T.S.

16 STUDENT LAB STATION DETAILS - UPPER CABINETS
Scale: AS NOTED



Key Plan - First Floor
Scale: 1/64" = 1'-0"



Key Plan - Second Floor
Scale: 1/64" = 1'-0"

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Architect
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FVHD architects planners
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Corporate: 1515 Lower Ferry Road
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Pennsylvania: 140 Whitaker Avenue
Mont Clare - Pennsylvania 19453
F V H D P C . C O M

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

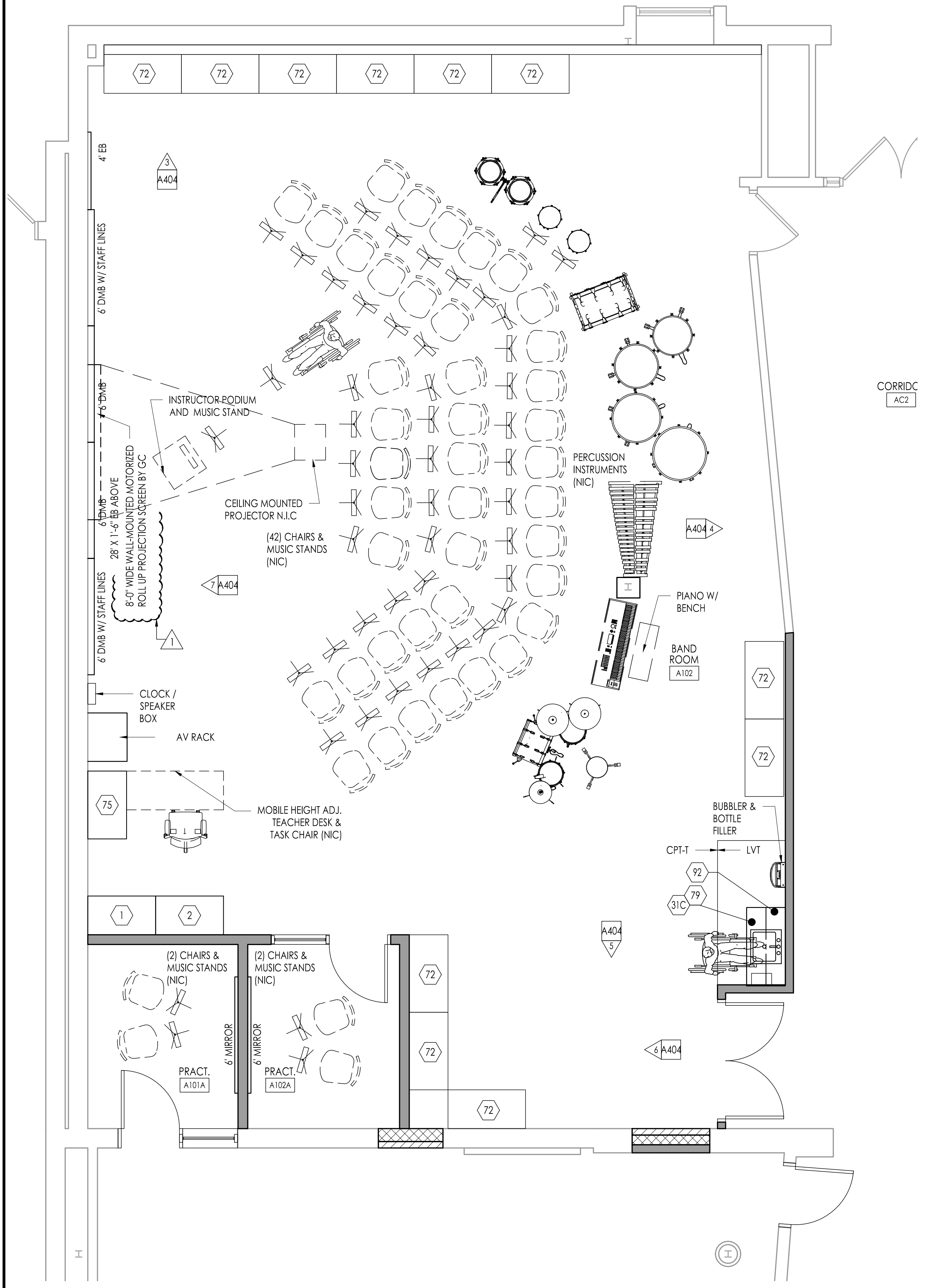
Project Number
5516B
Project Date
10.10.2025
Checked By
GRD
Drawn By
KAM
Scale
AS NOTED

Drawing Name
Enlarged Plans & Interior Elevations - Science Classrooms and Ensemble Room

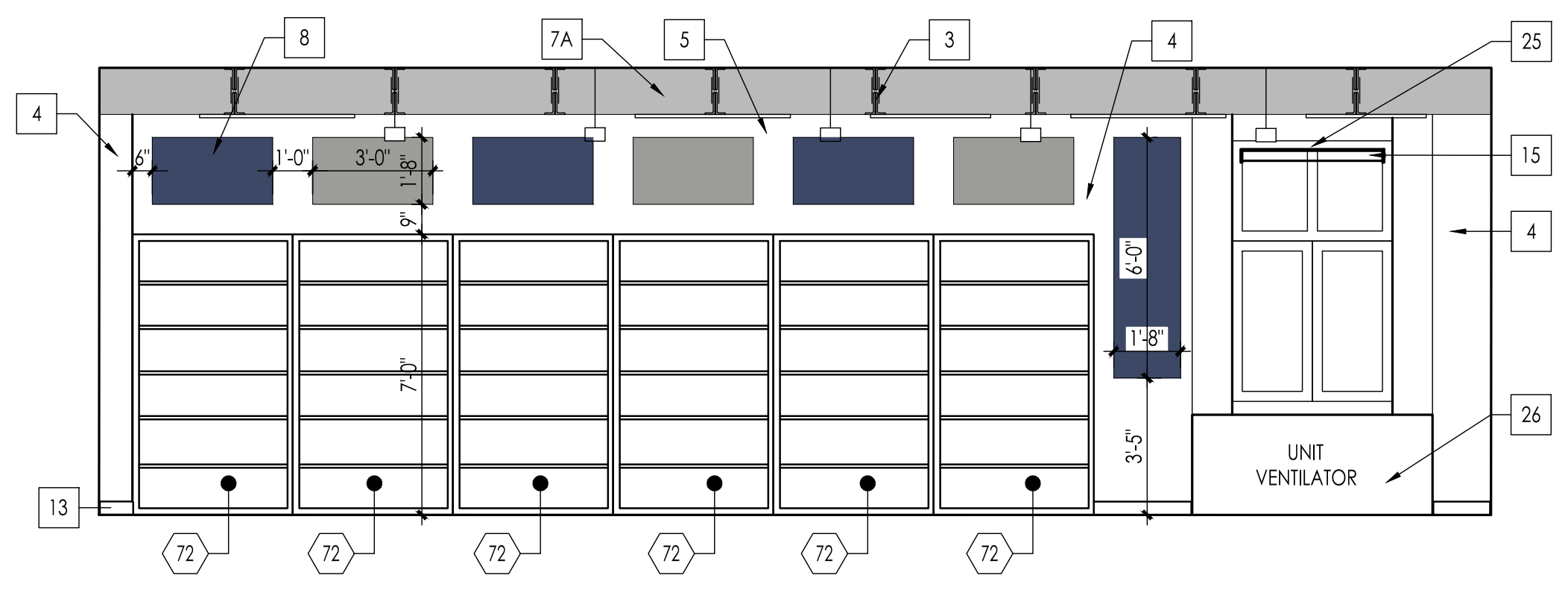
Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
1	1.14.26	ADDENDUM 1

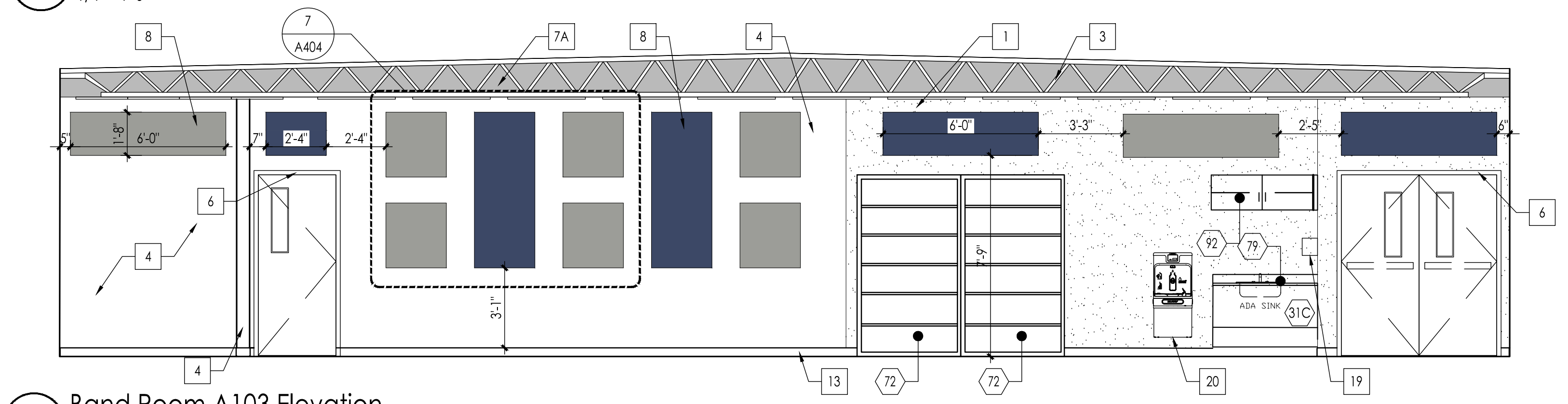
Drawing Number
A403


INSTRUCTOR PODIUM AND MUSIC STAND
CEILING MOUNTED PROJECTOR N.I.C
(42) CHAIRS & MUSIC STANDS (NIC)
PERCUSSION INSTRUMENTS (NIC)
PIANO W/ BENCH
BAND ROOM A102
CLOCK / SPEAKER BOX
AV RACK
MOBILE HEIGHT ADJ. TEACHER DESK & TASK CHAIR (NIC)
BUBBLER & BOTTLE FILLER
(2) CHAIRS & MUSIC STANDS (NIC)
PRACT. A101A
PRACT. A102A
6' MIRROR
6' DMB W/ STAFF LINES
4' EB
CORRIDOR AC2
CPT-T
LVT

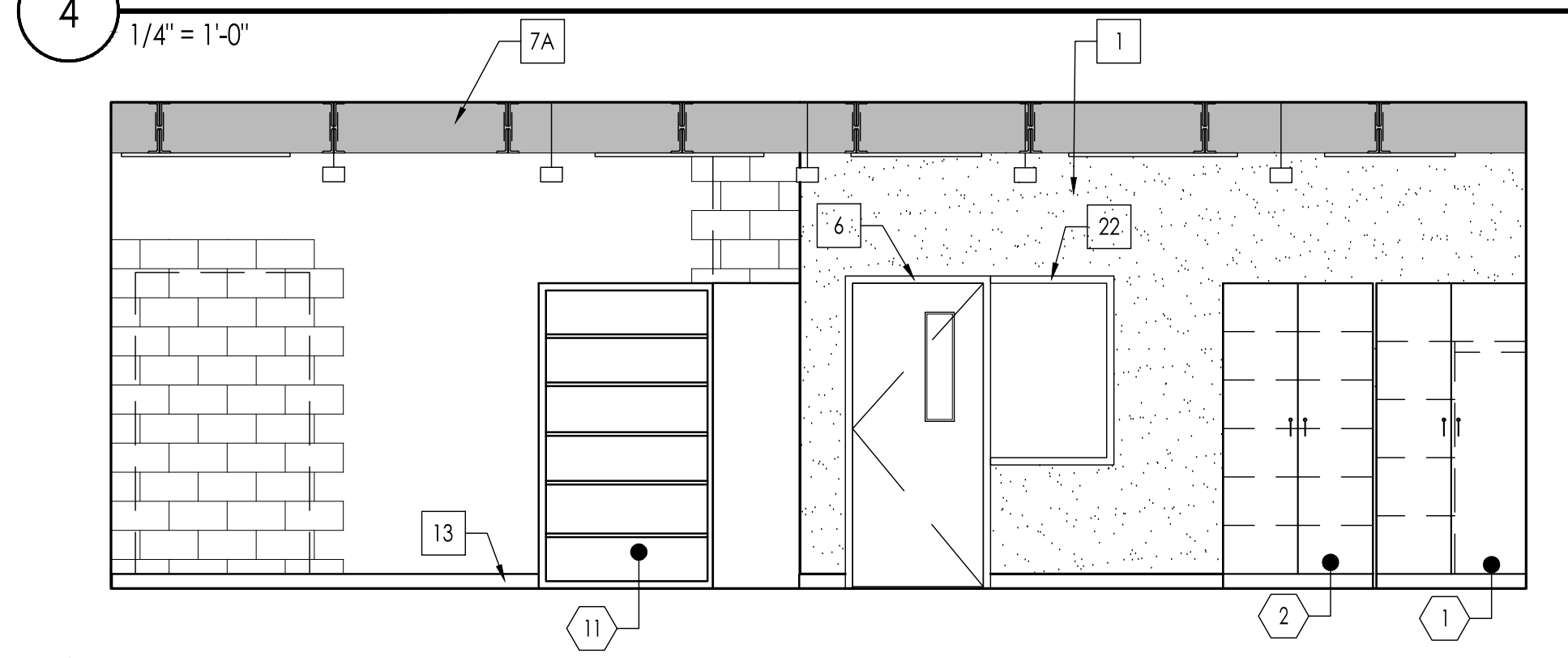
① Room Layout - Band Room, Practice Room
Scale: 1/4" = 1'-0" A102 A102A



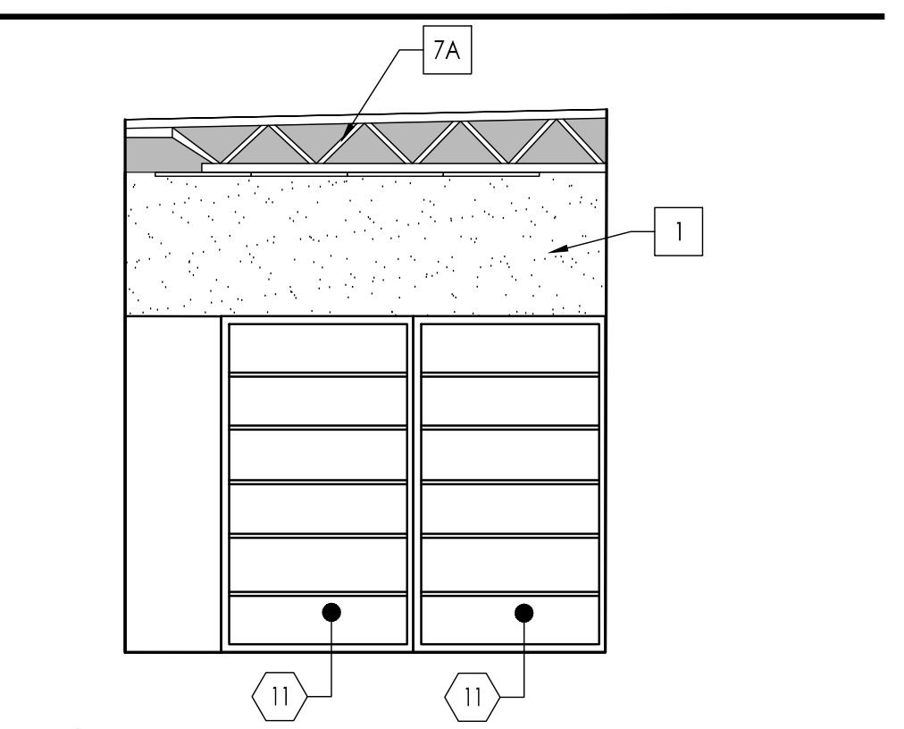
③ Band Room A103 Elevation
1/4" = 1'-0"



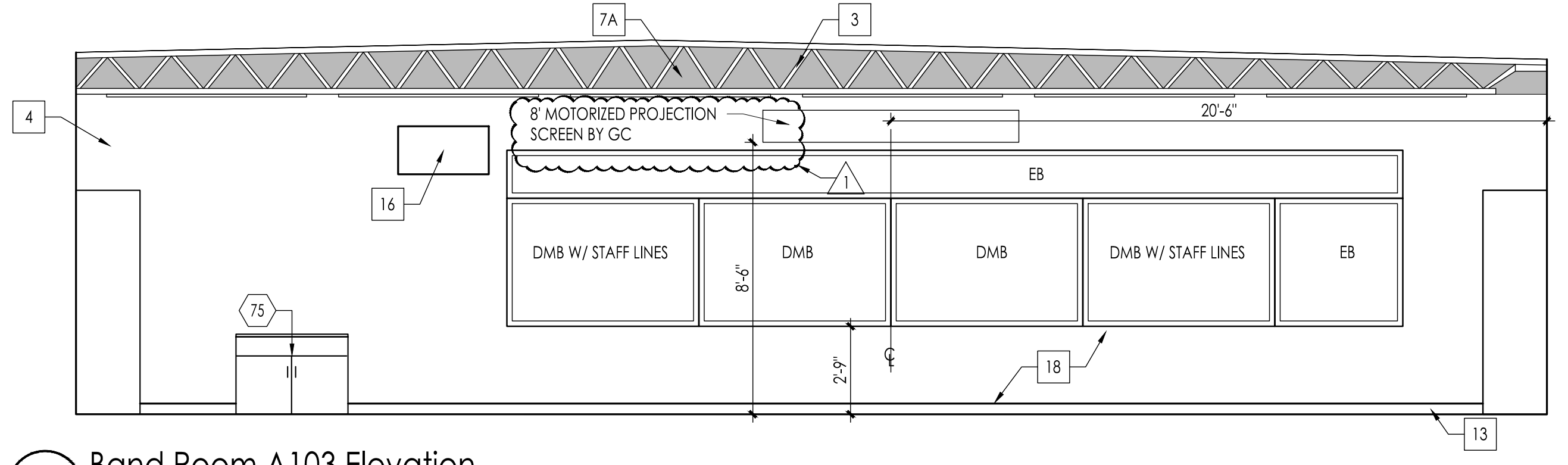
④ Band Room A103 Elevation
1/4" = 1'-0"



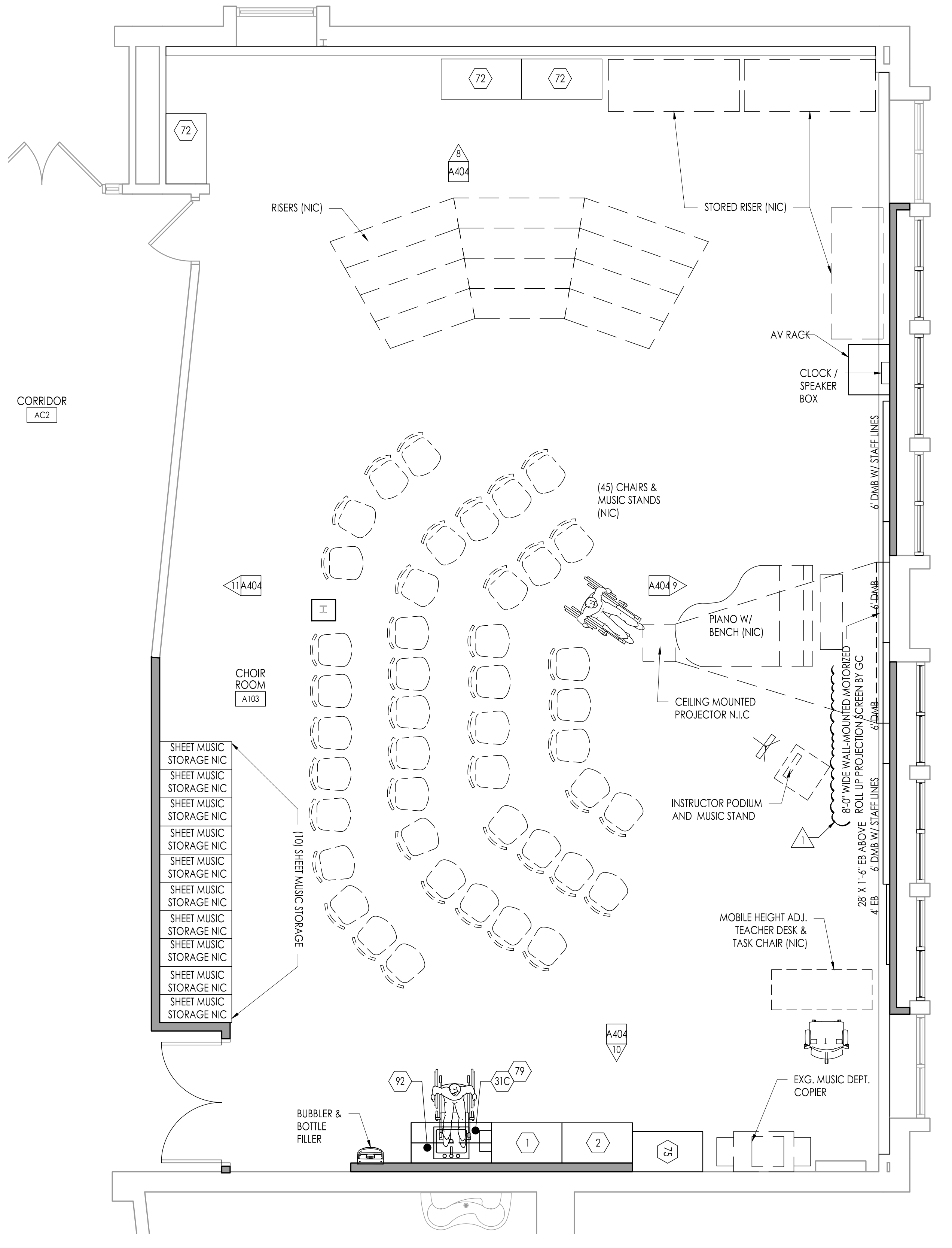
⑤ Band Room A103 Elevation
1/4" = 1'-0"



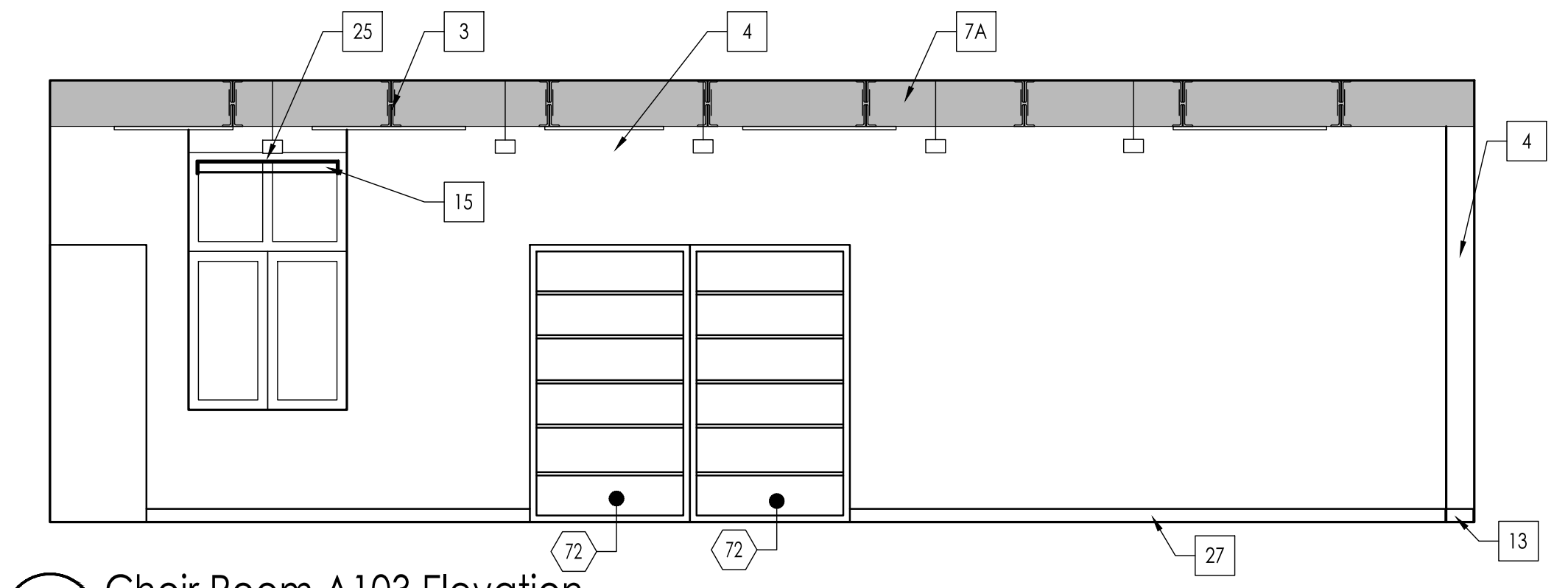
⑥ Band Room A103 Elevation
1/4" = 1'-0"



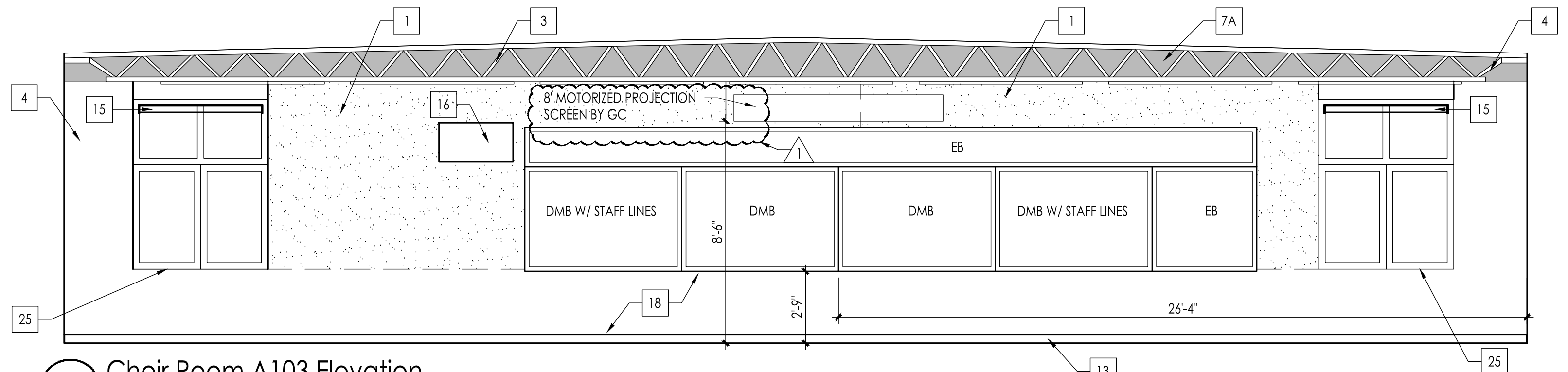
⑦ Band Room A103 Elevation
1/4" = 1'-0"



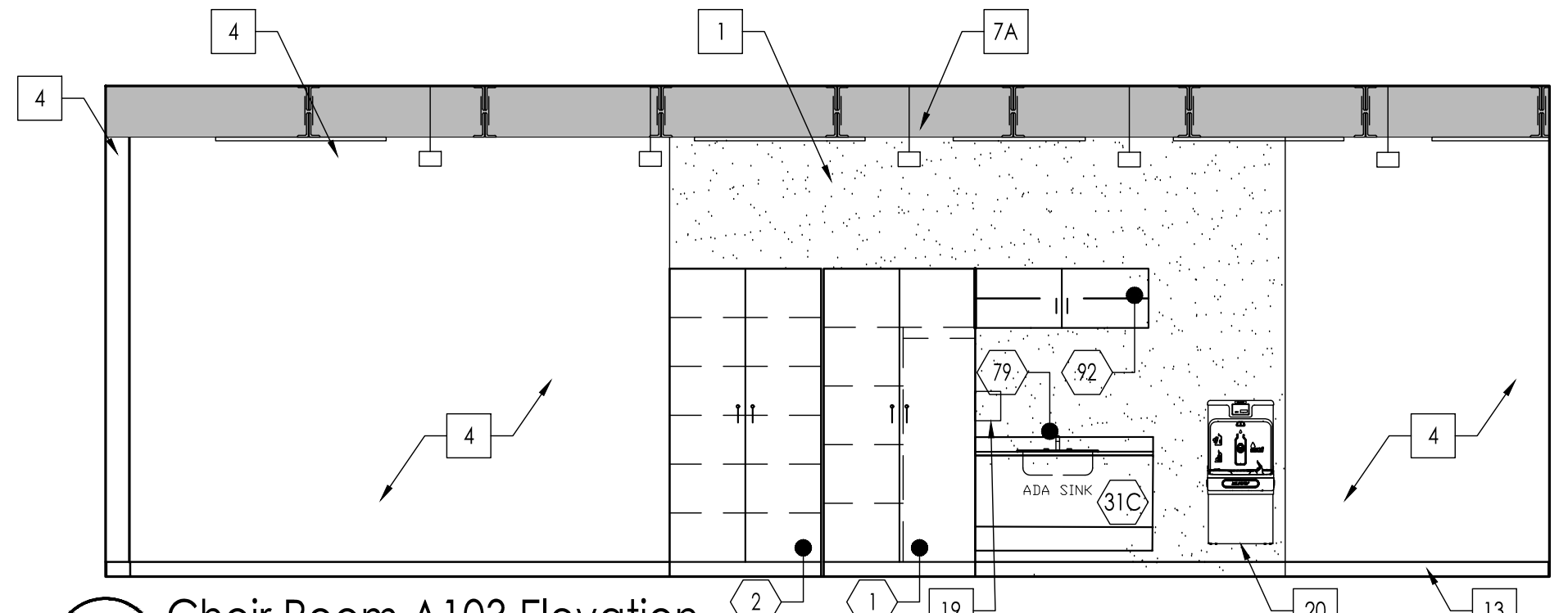
② Room Layout - Choir Room
Scale: 1/4" = 1'-0" A103



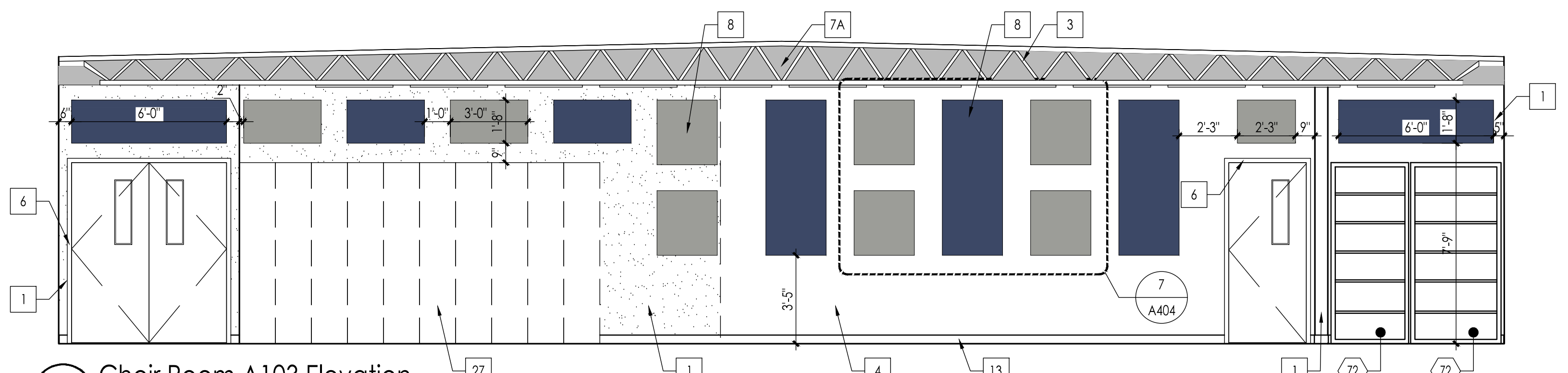
⑧ Choir Room A103 Elevation
1/4" = 1'-0"



⑨ Choir Room A103 Elevation
1/4" = 1'-0"



⑩ Choir Room A103 Elevation
1/4" = 1'-0"

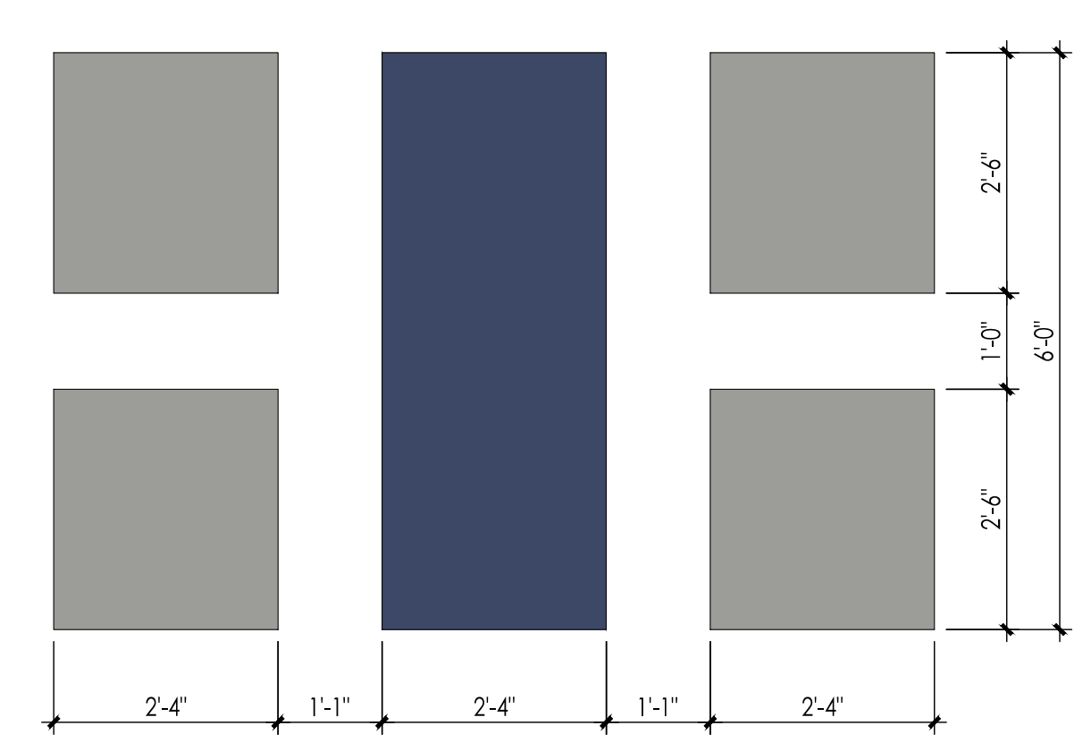


⑪ Choir Room A103 Elevation
1/4" = 1'-0"

FABRIC WRAPPED ACOUSTICAL WALL PANELS COLOR LEGEND :

■ COLOR -1 SEE ELEVATIONS FOR PANEL DIMENSIONS

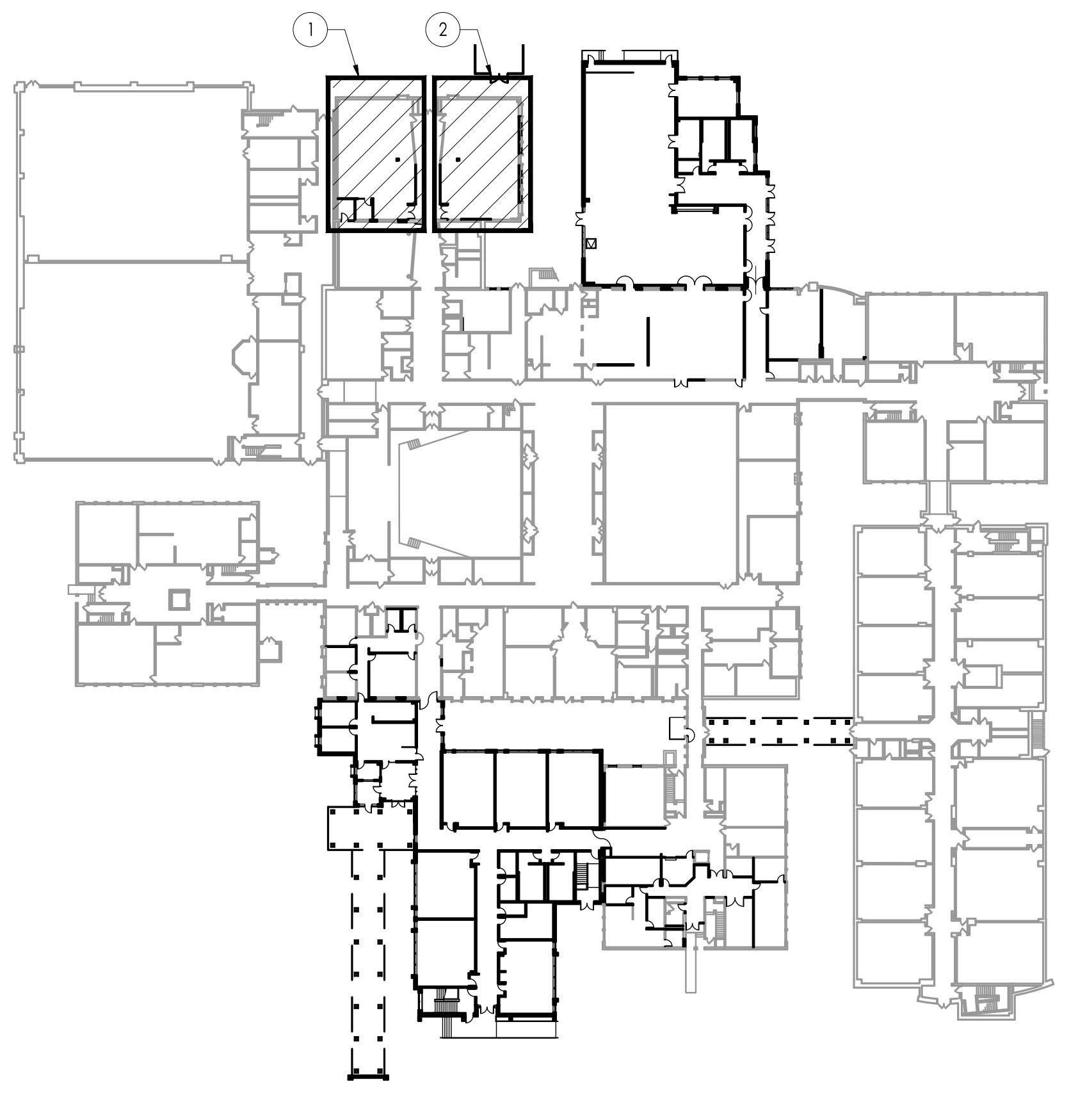
▨ COLOR -2 SEE ELEVATIONS FOR PANEL DIMENSIONS



⑫ Acoustic Wall Panels Detail
1/2" = 1'-0"

KEY NOTE LEGEND - MUSIC

1	GYP BOARD PAINTED, REF A700 FOR FINISHES
2	EXPOSED STEEL COLUMN PAINTED
3	STEEL LONG SPAN JOIST PAINTED, REF STRUCTURE
4	EXIST WALL, PAINTED, REF A700 SERIES FOR FINISHES
5	EXIST BRICK WALL, REF A700 SERIES FOR FINISHES
6	HOLLOW METAL DOOR AND FRAME, REF DOOR SCHEDULE
7	EXPOSED CMU PAINTED, RUNNING BOND
7A	PAINTED BLACK AT BOTTOM OF STEEL AND ABOVE, REF FINISH SCHEDULE FOR COLOR
8	ACOUSTICAL SOUND PANELS
8A	NOT USED
9	NOT USED
10	DECORATIVE CEILING SYSTEM, REF REFLECTED CEILING PLANS FOR DETAILS
11	CEILING PANELS NOTE 2, REF A106-A108 FOR REFLECTED CEILING PLAN
12	LED LINEAR PENDANT/LIGHT FIXTURE, REF A106-A108 FOR REFLECTED CEILING PLAN
13	4" RUBBER BASE
14	NOT USED
15	MANUAL BLACKOUT ROLLING SHADES, REF SPECS
16	CLOCK/SPEAKER BOX, REF ELECT. DWGS FOR DETAILS
17	SHORT THROW PROJECTOR - N.I.C.
18	TEACHING WALL, REF 1/A400 FOR TYP CONDITION
19	SOAP/PAPER TOWEL DISPENSER, REF 4/A400 FOR TYP CONDITION
20	ADA COMPLIANT DRINKING FOUNTAIN, REF PLUMBING DRAWINGS
21	EXISTING CHORAL RISERS, FOR REFERENCE ONLY
22	ALUMINUM WINDOW SYSTEM, REF A600 SERIES DRAWINGS
23	PLASTIC LAMINATE CABINET, SEE CASEWORK SCHEDULE. TURTLE TANK PROVIDED BY OWNER
24	DRY MARKERBOARD/EXHIBITION BOARD , REF 4/A400 FOR TYP CONDITION
25	EXISTING ALUMINUM WIDOW FRAME TO REMAIN
26	UNIT VENTILATOR
27	FURNITURE/EQUIPMENT NOT IN CONTRACT, FOR REFERENCE ONLY



Key Plan - First Floor
Scale: 1/64" = 1'-0"

NJDCA Electronic Release Stamp

FVHD architects planners
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NJ - 21AI02003100 | PA - RA410435

Architect
10/10/25
Date

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Project Owner Name
Princeton Public Schools

Project Location
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Project Number
5516B

Project Date
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Checked By
GRD

Drawn By
KM, ES, KH

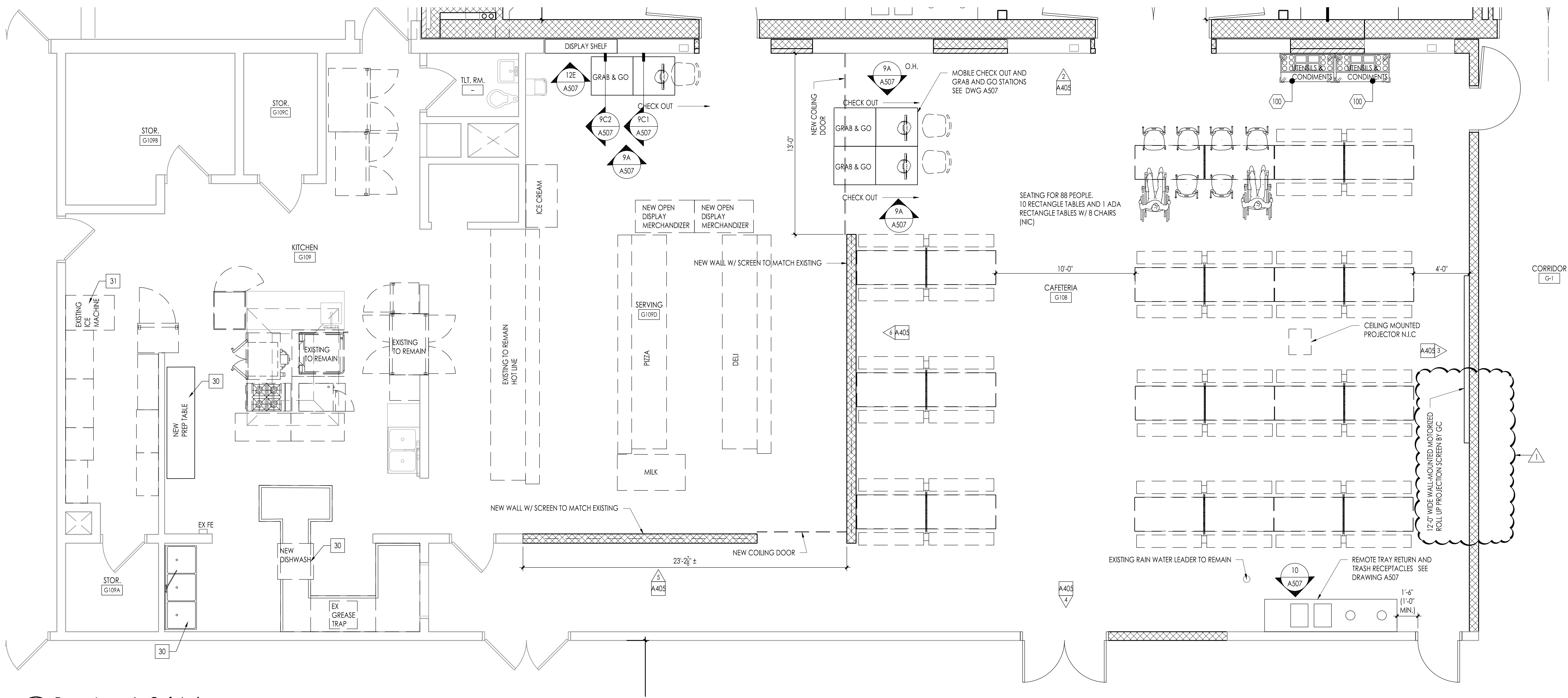
Scale
AS NOTED

Drawing Name
Enlarged Plans & Interior Elevations - Music Department

Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
1	1.14.26	ADDENDUM 1

Drawing Number
A404

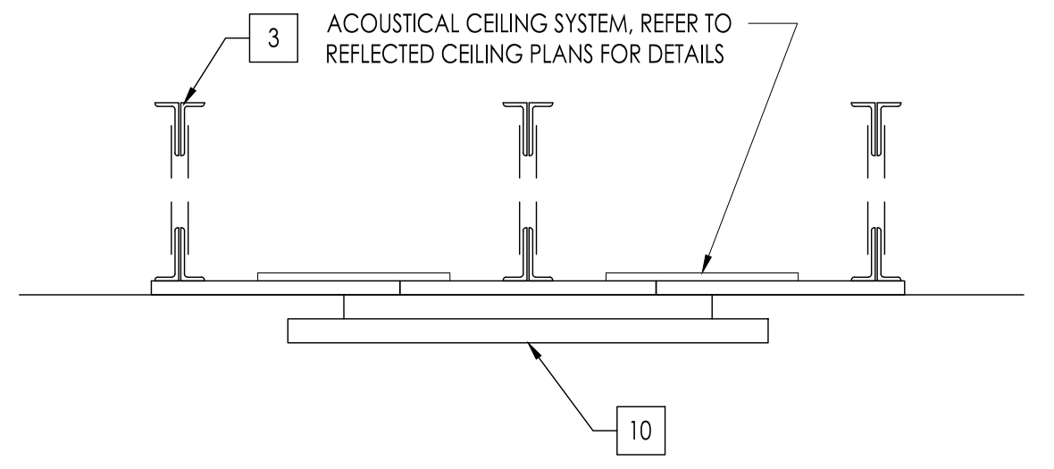


1 Room Layout - Cafeteria
Scale: 1/4" = 1'-0"

G108 G33A G33

KEY NOTE LEGEND - CAFETERIA

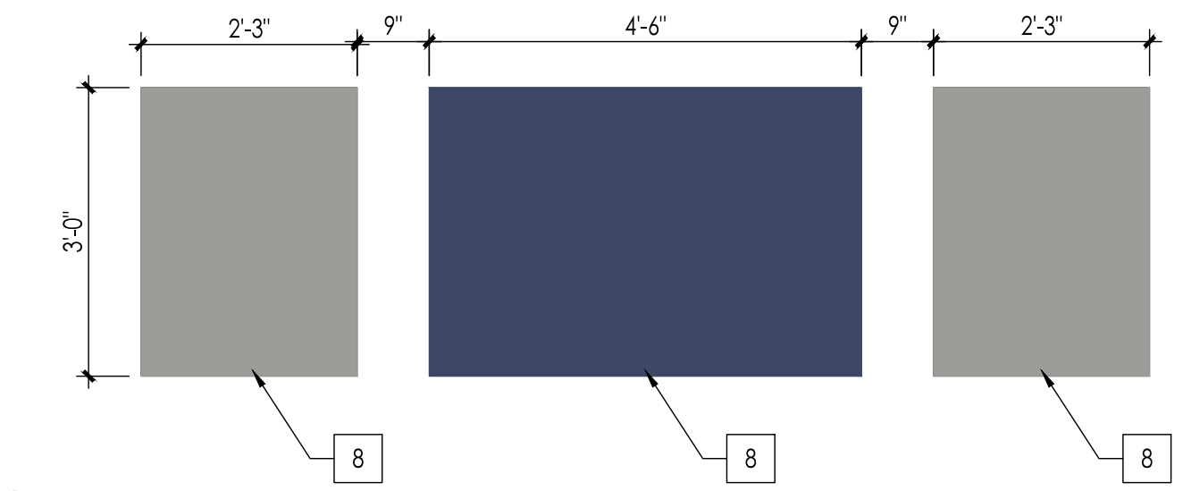
1	GYPSUM BOARD PAINTED, REF A700 FOR FINISHES	18	ROLL-DOWN PROJECTOR SCREEN, BY GC (1)
2	EXPOSED STEEL COLUMN PAINTED	19	INFILL EXISTING OPENING WITH CUSTOM MILLWORK DISPLAY SHELF
3	STEEL LONG SPAN JOIST PAINTED, REF STRUCTURE	20	EXISTING ADA COMPLIANT DRINKING FOUNTAIN, REF PLAN DRAWINGS
4	EXISTING WALL TO REMAIN, PAINTED, REFER TO ROOM FINISH SCHEDULE	21	CHECKOUT COUNTER, N.I.C., BY OWNER
5	EXISTING GYPSUM BOARD SOFFIT TO REMAIN. PROVIDE NEW PAINT REF ROOM FINISH SCHEDULE.	22	NOT USED
6	WOOD DOOR IN HOLLOW METAL FRAME, REF DOOR SCHEDULE	23	NOT USED
7	EXPOSED CMU PAINTED, RUNNING BOND	24	DECORATIVE PRIVACY SCREEN
7A	PAINTED BLACK AT BOTTOM OF STEEL AND ABOVE, REF FINISH SCHEDULE FOR COLOR	25	FRP, REF FINISH SCHEDULE
8	ACOUSTICAL SOUND PANELS	26	SLIDING MESH GATE, REF 7/A405 FOR DETAILS
9	EXIST BRICK VENEER TO REMAIN	27	FURNITURE/EQUIPMENT NOT IN CONTRACT, FOR REFERENCE ONLY
10	LED PENDANT LIGHT FIXTURE, REFER TO REFLECTED CEILING PLANS FOR DETAILS	28	EXISTING WALL MURAL
11	NEW WALL CONSTRUCTION, MATCH EXISTING	29	EXISTING WALL TILE
12	SUSPENDED DECORATIVE CEILING SYSTEM, REF REFLECTED CEILING PLANS FOR DETAILS	30	NEW KITCHEN EQUIPMENT, PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
13	4" RUBBER BASE, REF ROOM FINISH SCHEDULE	31	EXISTING KITCHEN EQUIPMENT TO BE RELOCATED
14	EXISTING CLOCK LOCATION TO REMAIN	32	ALUMINUM WINDOW SYSTEM, REF A600 SERIES DRAWINGS
15	CLOCK/SPEAKER BOX, REF ELECT. DWGS FOR DETAILS		
16	MOTORIZED ROLLING SHADES, REF FINISH LEGEND + SPECS		
17	CEILING-MOUNTED PROJECTOR - N.I.C. (1)		


3
ACOUSTICAL CEILING SYSTEM, REFER TO REFLECTED CEILING PLANS FOR DETAILS
10

9 Ceiling Detail
1/4" = 1'-0"

REF REFLECTED CEILING PLAN

10. RECTANGULAR ACOUSTICAL CEILING PANELS IN JOIST FOR SOUND ABSORBTION

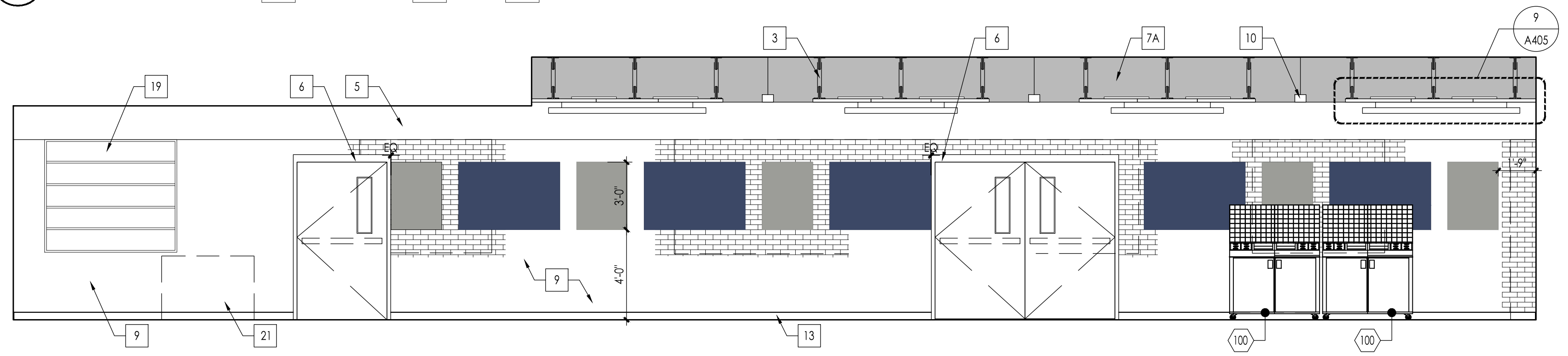


10 Acoustical Panels Detail
1/4" = 1'-0"

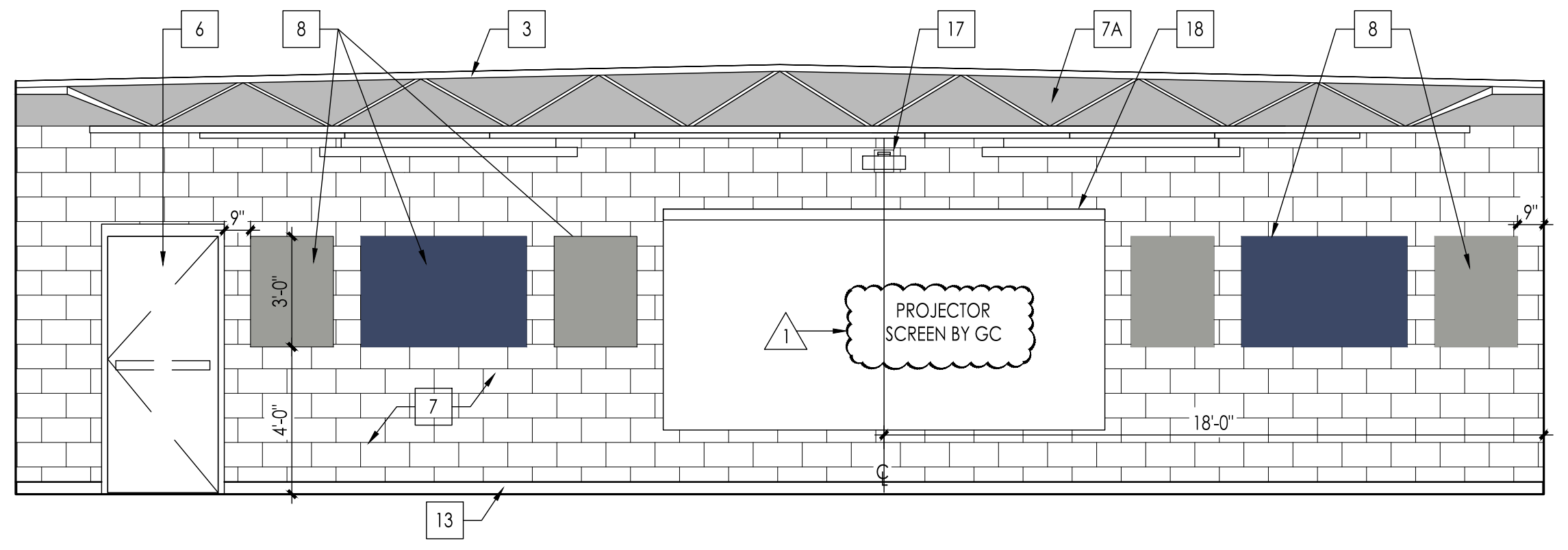
FABRIC WRAPPED ACOUSTICAL WALL PANELS COLOR LEGEND :

■ COLOR -1 SEE ELEVATIONS FOR PANEL DIMENSIONS

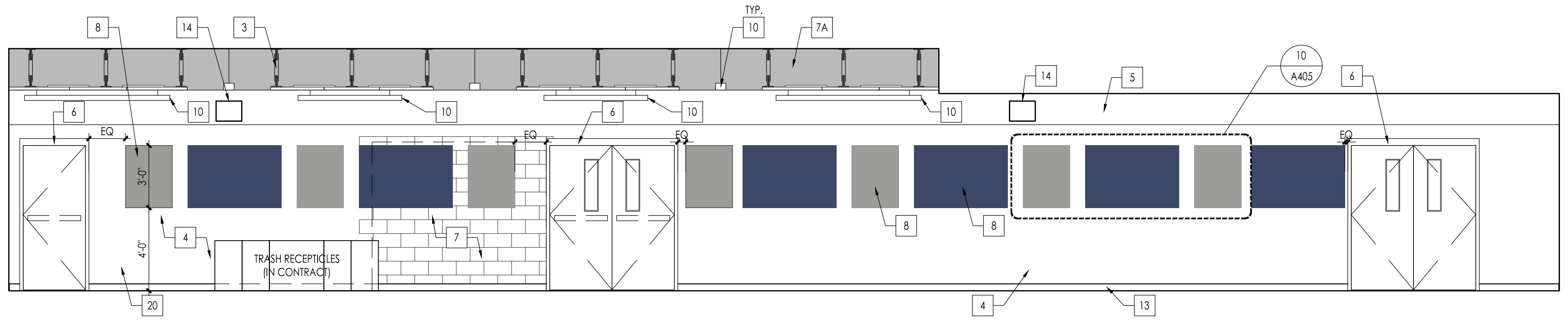
▨ COLOR -2 SEE ELEVATIONS FOR PANEL DIMENSIONS



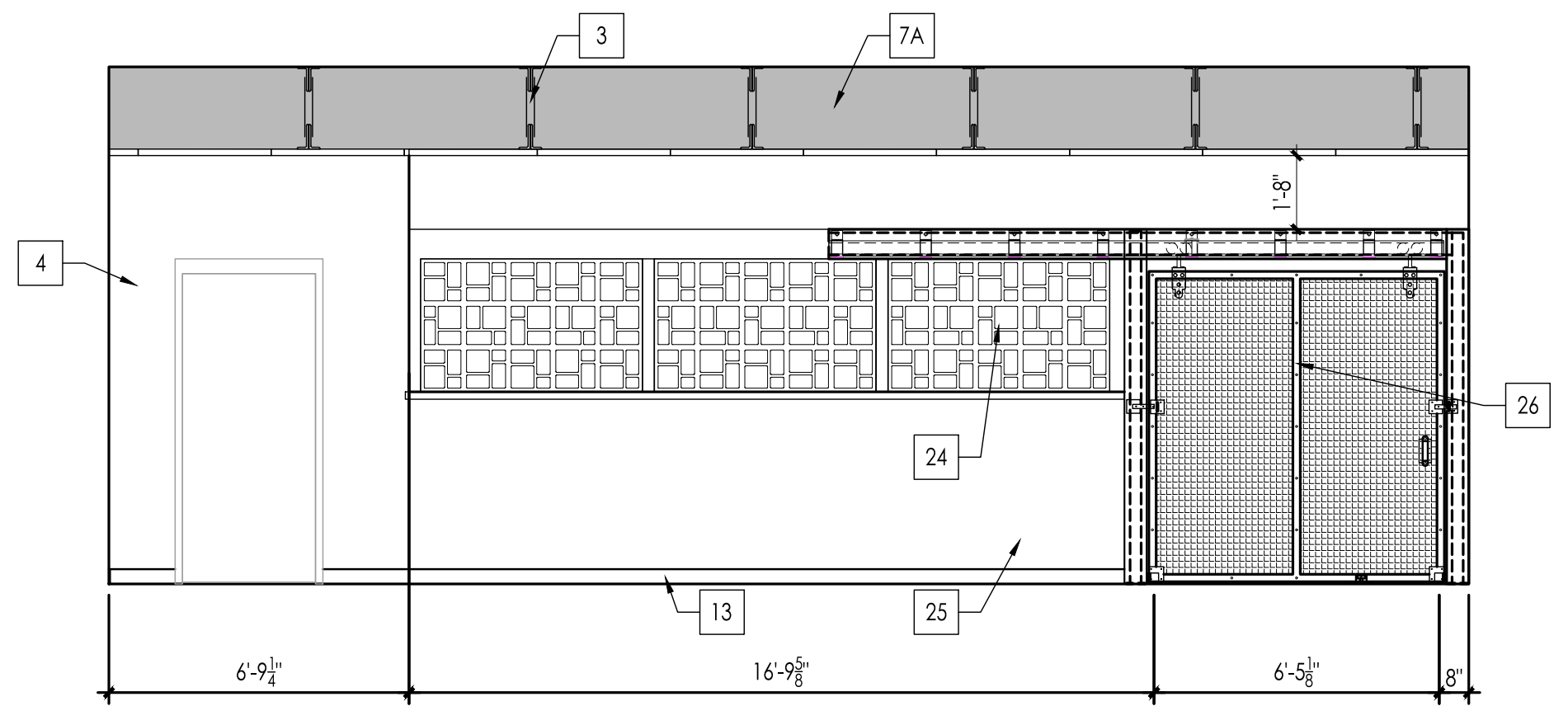
2 Cafeteria A G108 Elevation
1/4" = 1'-0"



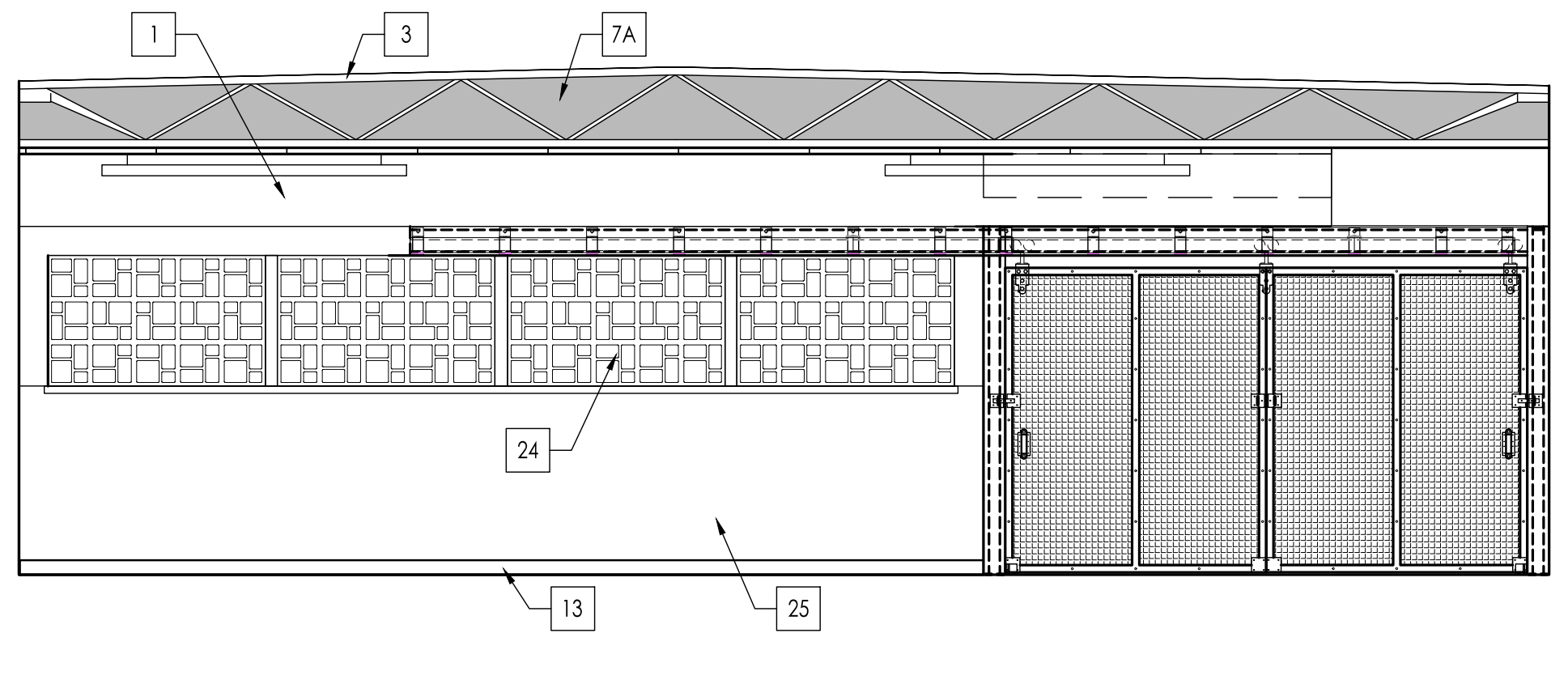
3 Cafeteria A G108 Elevation
1/4" = 1'-0"



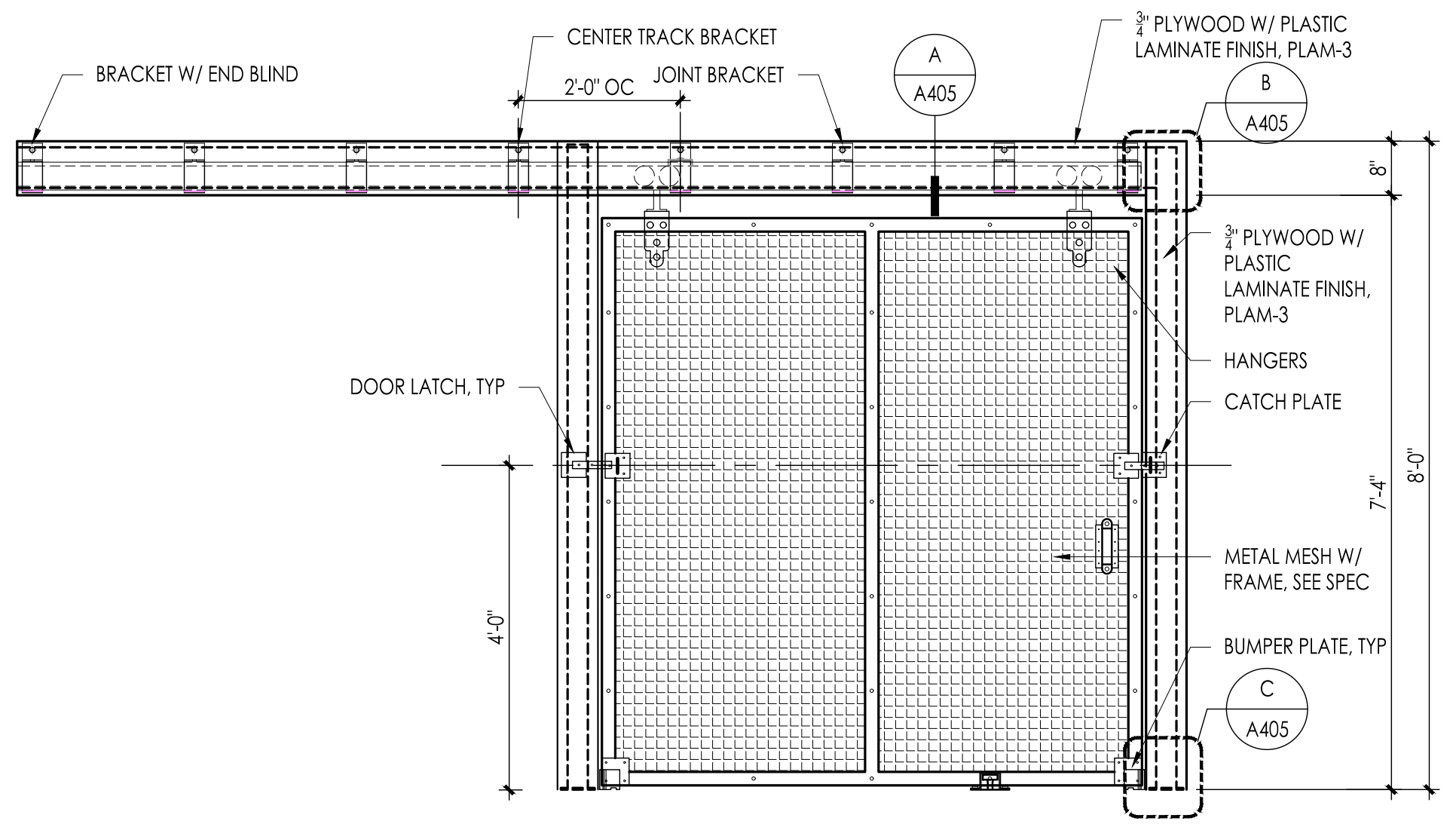
4 Cafeteria A G108 Elevation
1/4" = 1'-0"



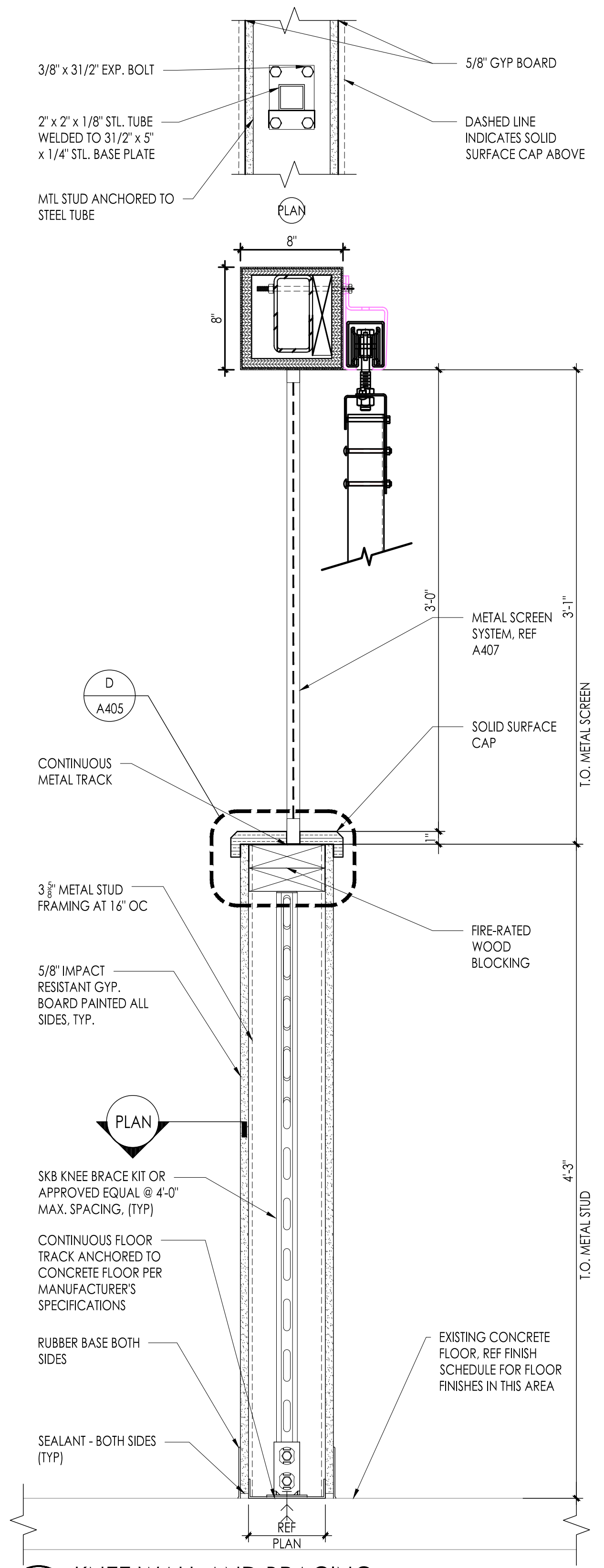
5 Cafeteria A G108 Elevation
1/4" = 1'-0"



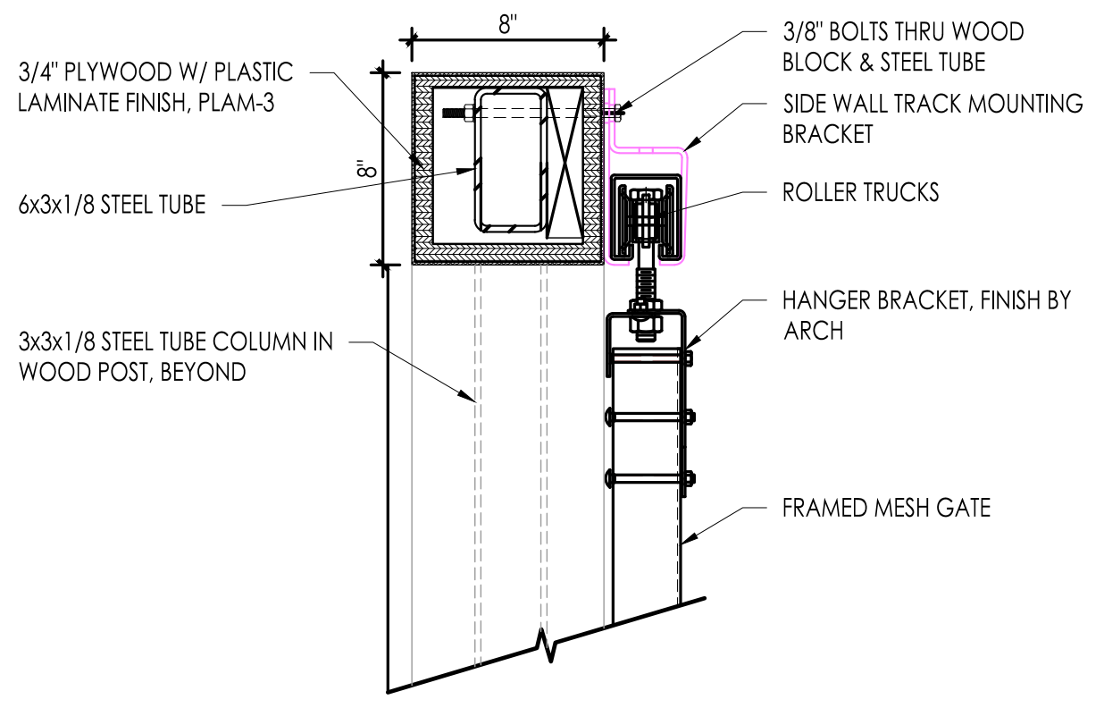
6 Cafeteria A G108 Elevation
1/4" = 1'-0"



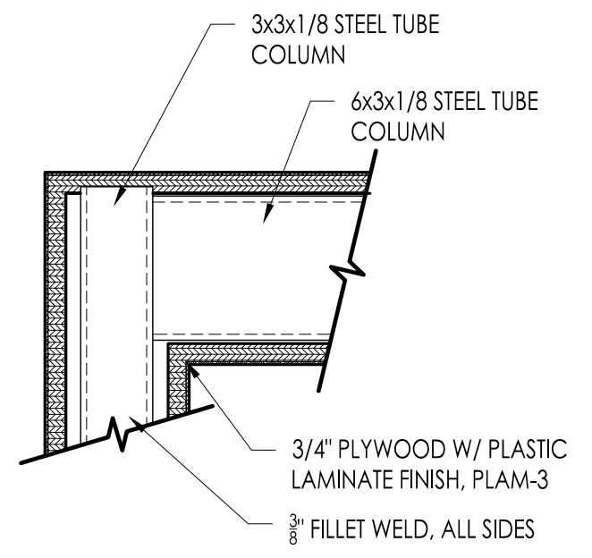
7 SERVING LINE GATE DETAIL
1/2"=1'-0"


3/8" x 31/2" EXP. BOLT
2" x 2" x 1/8" STL. TUBE WELDED TO 31/2" x 5" x 1/4" STL. BASE PLATE
MTL STUD ANCHORED TO STEEL TUBE
5/8" GYP BOARD
DASHED LINE INDICATES SOLID SURFACE CAP ABOVE
PLAN
8"
8"
3'-0"
3'-1"
METAL SCREEN SYSTEM, REF A407
D
A405
CONTINUOUS METAL TRACK
SOLID SURFACE CAP
T.O. METAL SCREEN
1"
3 5/8" METAL STUD FRAMING AT 16" OC
FIRE-RATED WOOD BLOCKING
5/8" IMPACT RESISTANT GYP. BOARD PAINTED ALL SIDES, TYP.
PLAN
SKB KNEE BRACE KIT OR APPROVED EQUAL @ 4'-0" MAX. SPACING, (TYP)
4'-3"
T.O. METAL STUD
CONTINUOUS FLOOR TRACK ANCHORED TO CONCRETE FLOOR PER MANUFACTURER'S SPECIFICATIONS
RUBBER BASE BOTH SIDES
EXISTING CONCRETE FLOOR, REF FINISH SCHEDULE FOR FLOOR FINISHES IN THIS AREA
SEALANT - BOTH SIDES (TYP)
REF PLAN

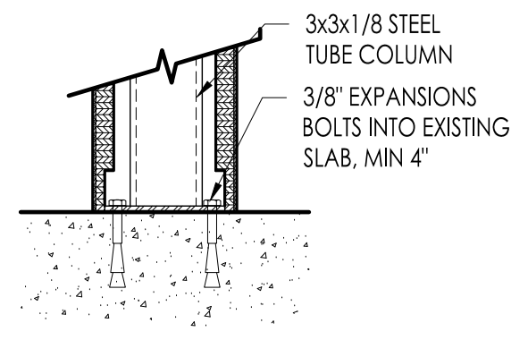
8 KNEE WALL AND BRACING
3/4" - 1'-0"


8"
8"
3/4" PLYWOOD W/ PLASTIC LAMINATE FINISH, PLAM-3
6x3x1/8 STEEL TUBE
3x3x1/8 STEEL TUBE COLUMN IN WOOD POST, BEYOND
3/8" BOLTS THRU WOOD BLOCK & STEEL TUBE
SIDE WALL TRACK MOUNTING BRACKET
ROLLER TRUCKS
HANGER BRACKET, FINISH BY ARCH
FRAMED MESH GATE

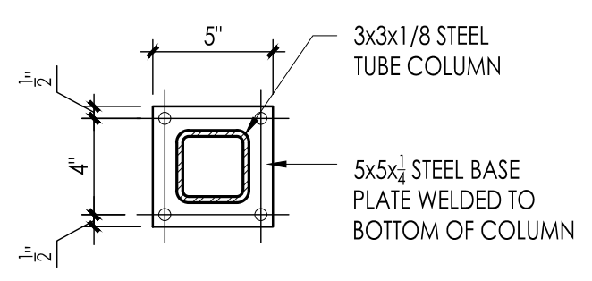
A GATE TRACK DETAIL
3/4"=1'-0"


3x3x1/8 STEEL TUBE COLUMN
6x3x1/8 STEEL TUBE COLUMN
3/4" PLYWOOD W/ PLASTIC LAMINATE FINISH, PLAM-3
3/8" FILLET WELD, ALL SIDES

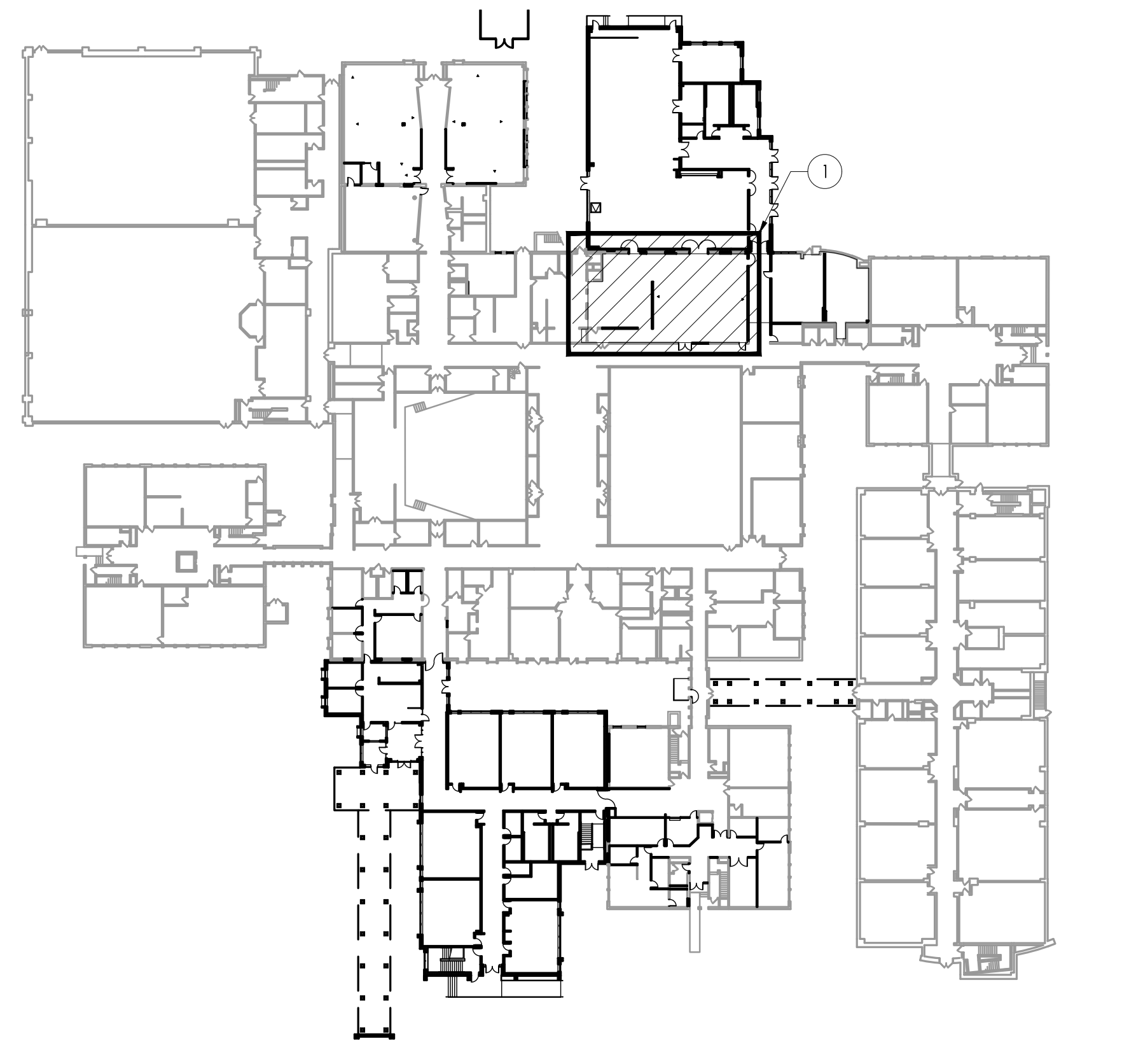
B COLUMN /BEAM DETAIL
1 1/2"=1'-0"


3x3x1/8 STEEL TUBE COLUMN
3/8" EXPANSIONS BOLTS INTO EXISTING SLAB, MIN 4"

C BASE PLATE DETAIL
1 1/2"=1'-0"


5"
1/2"
4"
1/2"
3x3x1/8 STEEL TUBE COLUMN
5x5x1/4 STEEL BASE PLATE WELDED TO BOTTOM OF COLUMN

D BASE PLATE DETAIL
1 1/2"=1'-0"



Key Plan - First Floor
Scale: 1/64" = 1'-0"

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JASON J. DUBOWITCH, AIA
NJ - 21AI01979800 | PA - RA406009
STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

Architect
10/10/25
Date

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

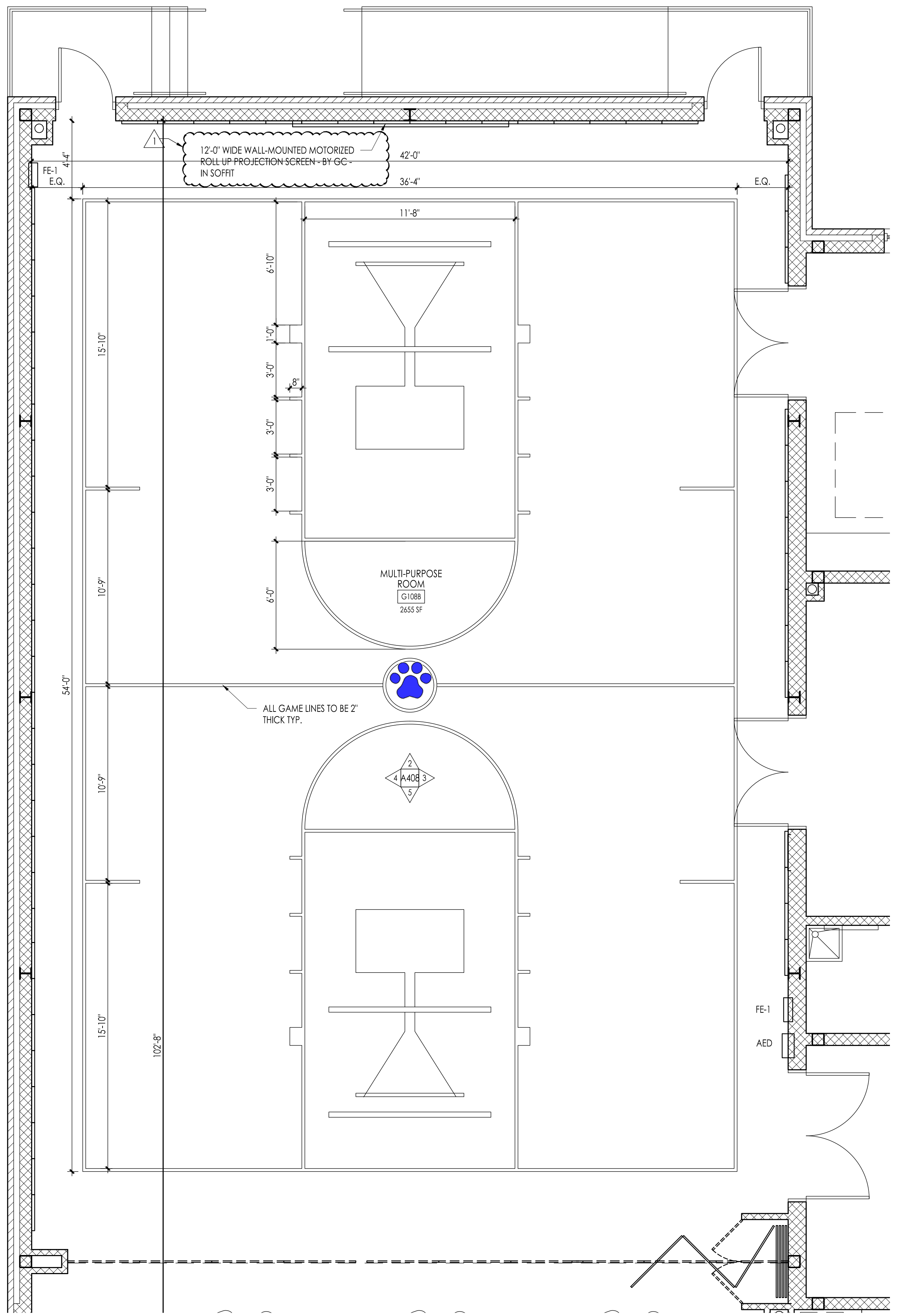
Project Number
5516B
Project Date
10.10.2025
Checked By
GRD
Drawn By
KM, ES,KH
Scale
AS NOTED

Drawing Name
Enlarged Plans & Interior Elevations - Cafeteria G108

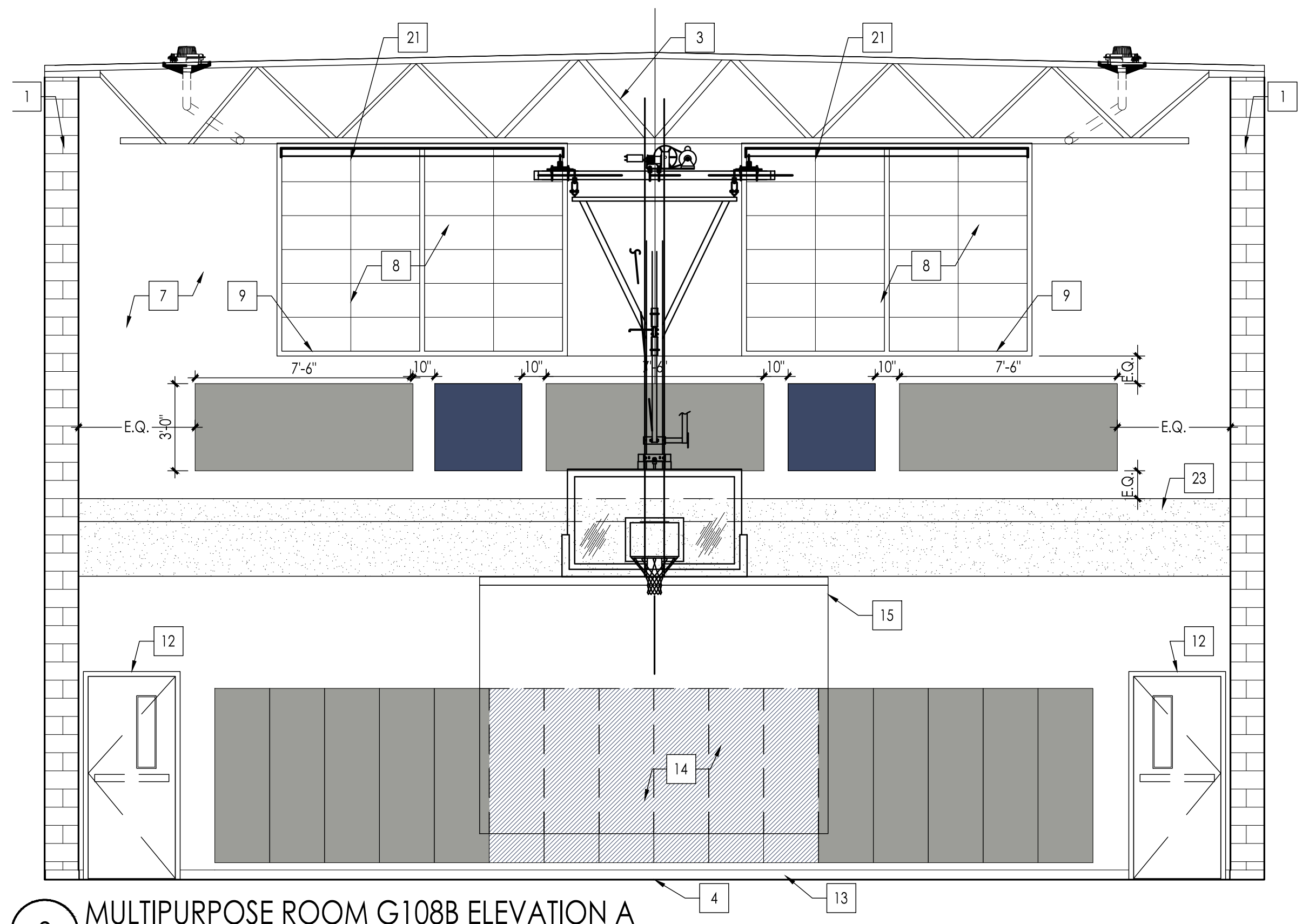
Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
1	1.14.26	ADDENDUM 1

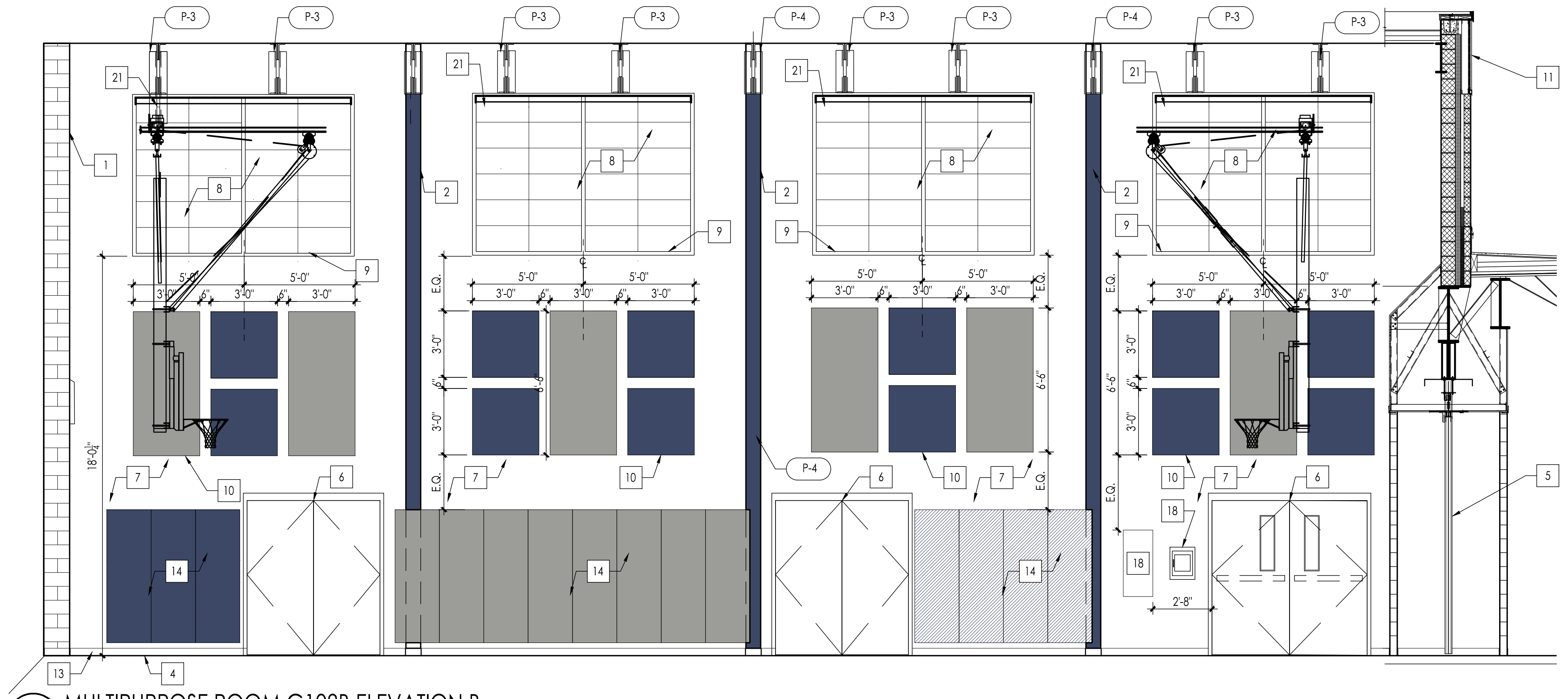
Drawing Number
A405


12'-0" WIDE WALL-MOUNTED MOTORIZED ROLL UP PROJECTION SCREEN - BY GC - IN SOFFIT
1
42'-0"
36'-4"
E.Q.
FE-1
11'-8"
6'-10"
15'-10"
10'-9"
54'-0"
102'-8"
MULTI-PURPOSE ROOM
G108B
2655 SF
ALL GAME LINES TO BE 2" THICK TYP.
A408
FE-1
AED

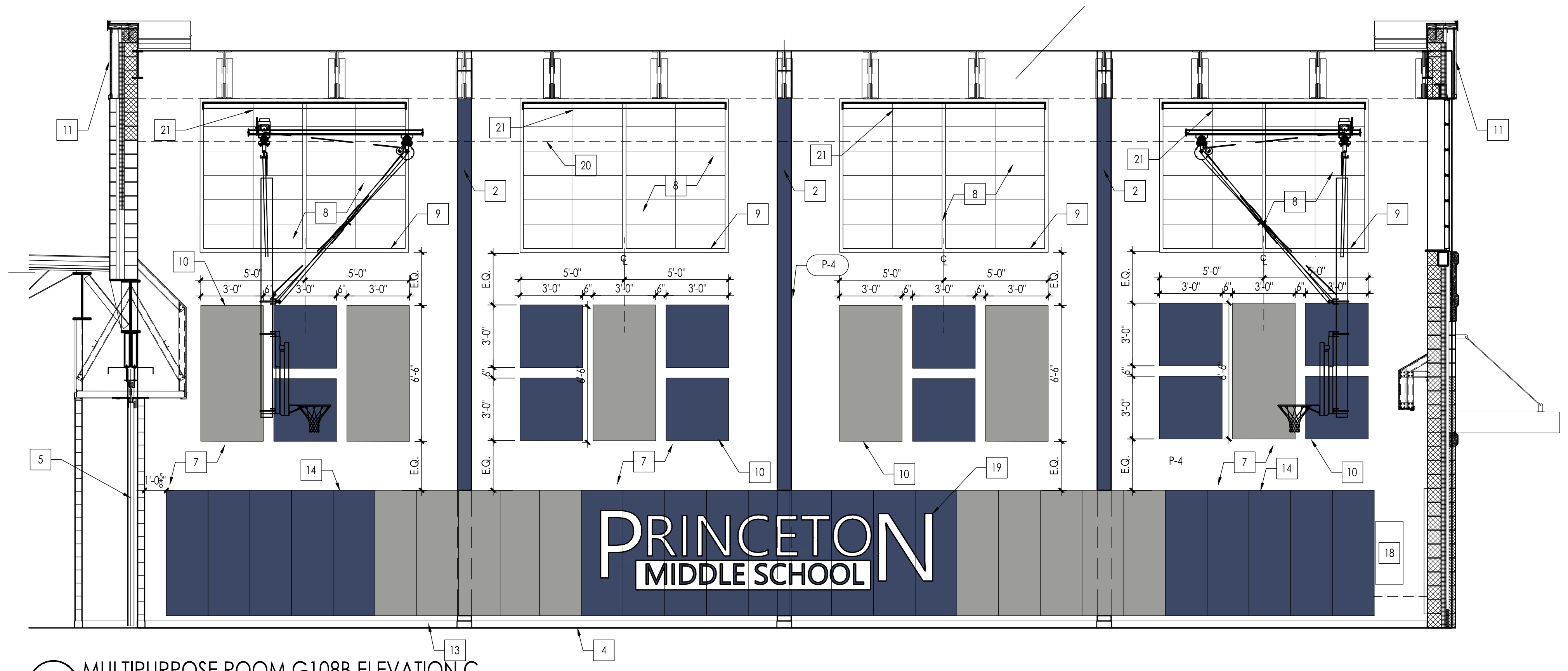
① Room Layout -Multi-Purpose Room G108B
Scale: 1/4" = 1'-0"



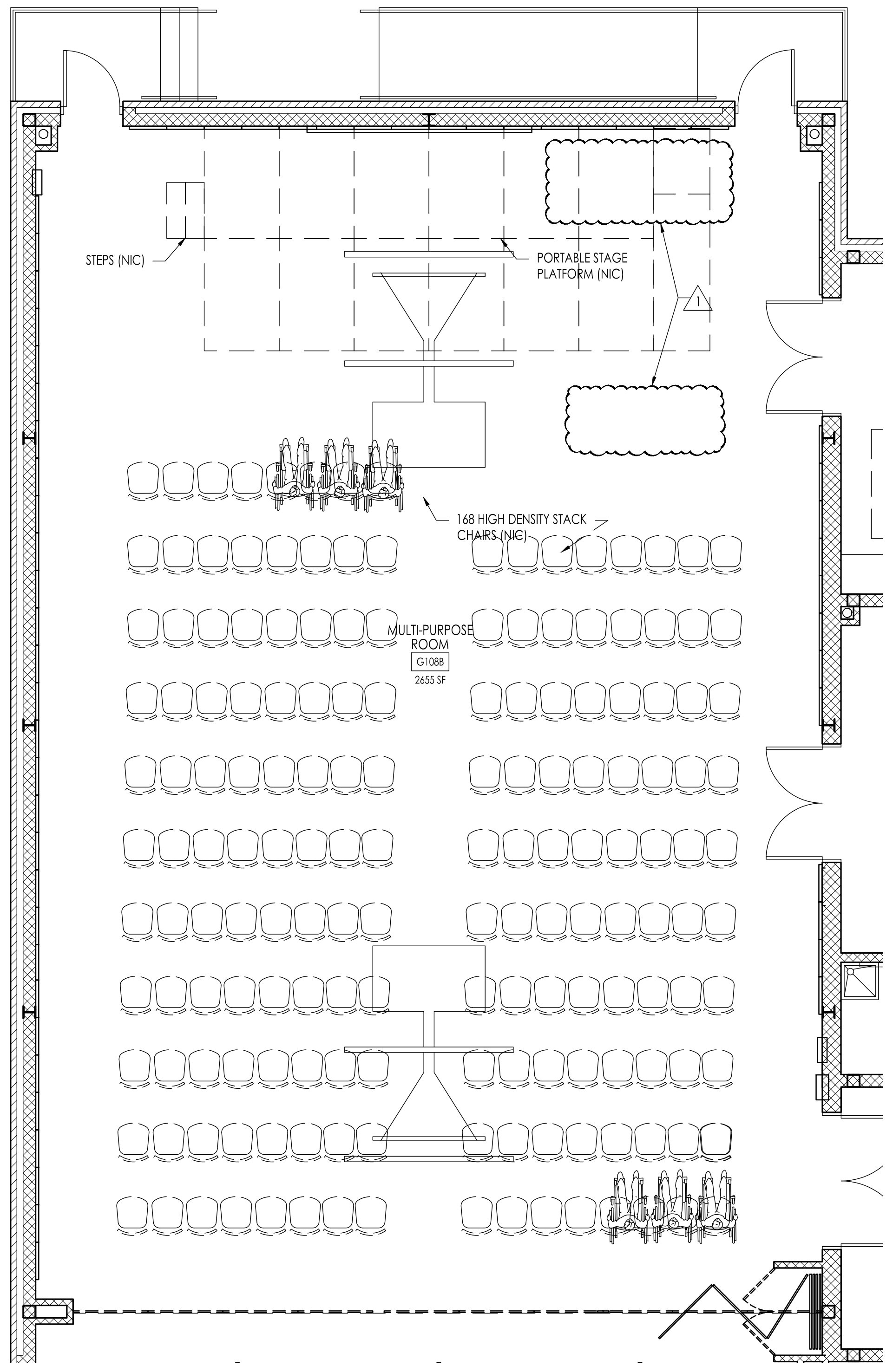
② MULTIPURPOSE ROOM G108B ELEVATION A
1/4" = 1'-0"



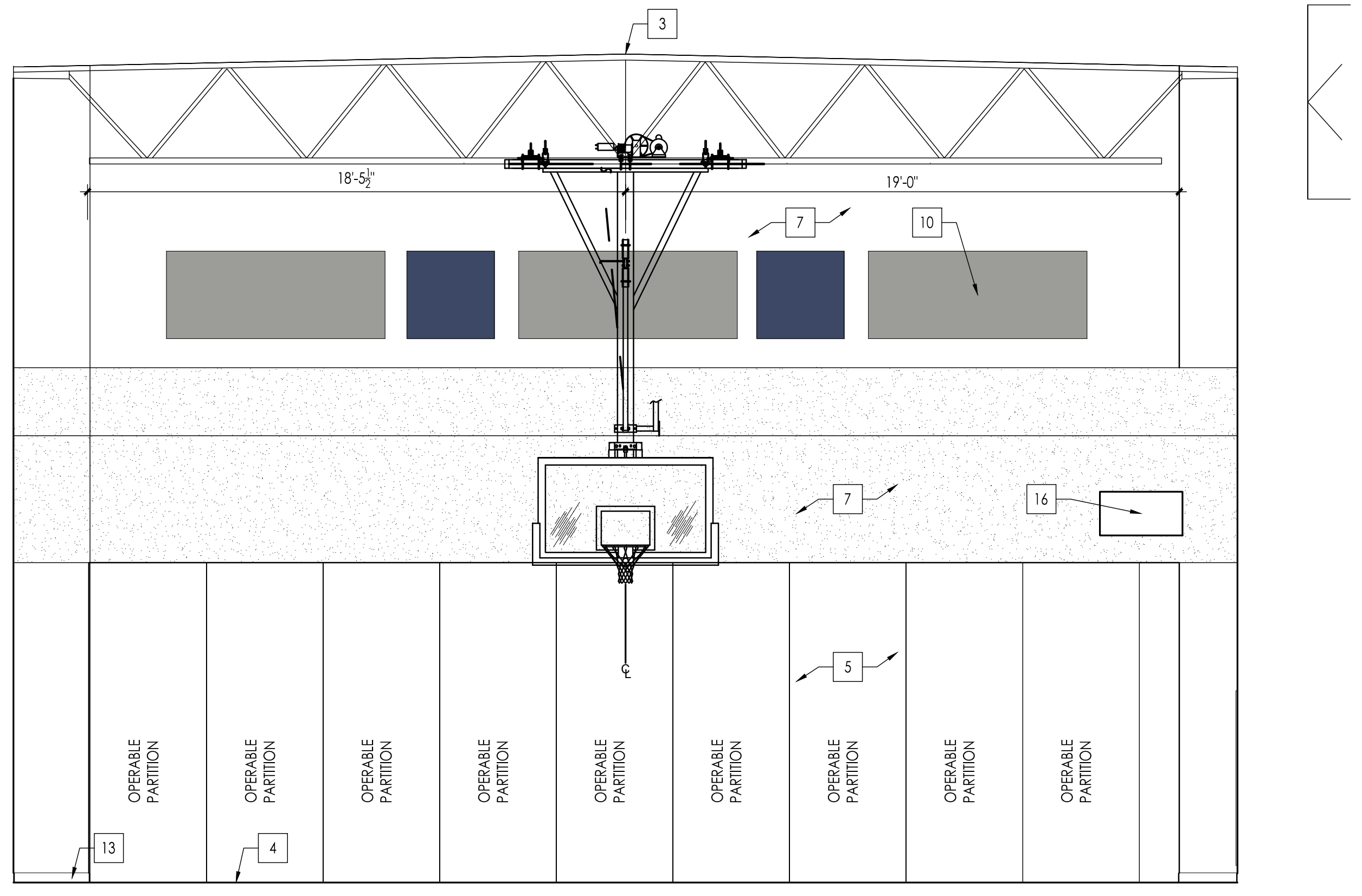
③ MULTIPURPOSE ROOM G108B ELEVATION B
1/4" = 1'-0"



④ MULTIPURPOSE ROOM G108B ELEVATION C
1/4" = 1'-0"


STEPS (NIC)
PORTABLE STAGE PLATFORM (NIC)
1
168 HIGH DENSITY STACK CHAIRS (NIC)
MULTI-PURPOSE ROOM
G108B
2655 SF

①A Room Layout -Multi-Purpose Room G108B (Assembly Layout)
Scale: 3/16" = 1'-0"



⑤ MULTIPURPOSE ROOM G108B ELEVATION D
1/4" = 1'-0"

PAINT LEGEND :

P-1	TBD
P-2	TBD
P-3	TBD
P-4	TBD

FABRIC WRAPPED ACOUSTICAL WALL PANELS COLOR LEGEND :

■	COLOR -1 SEE ELEVATIONS FOR PANEL DIMENSIONS
■	COLOR -2 SEE ELEVATIONS FOR PANEL DIMENSIONS

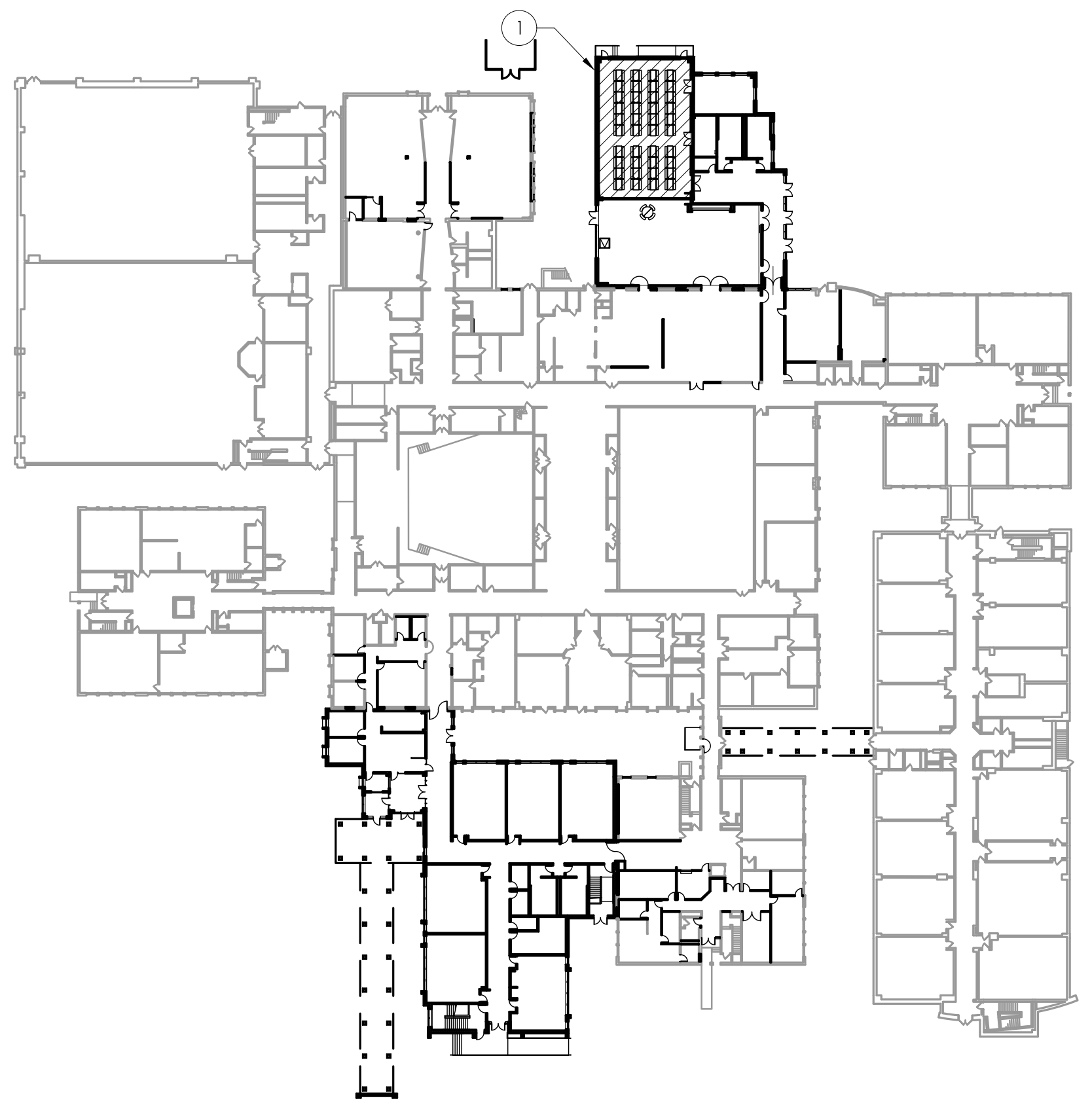
GYM WALL PAD COLOR LEGEND:

■	WALL PAD COLOR 1
■	WALL PAD COLOR 2

KEY NOTE LEGEND - MULTI-PURPOSE ROOM

1	CMU PIPE CHASE IN CORNER PAINTED
2	EXPOSED FACE OF STEEL COLUMN PAINTED
3	STEEL JOIST PAINTED, REF STRUCTURE
4	SYNTHETIC SPORTS FLOOR, REF SPECS
5	OPERABLE PARTITION, REF SPECS
6	WOOD DOOR IN HOLLOW METAL FRAME, REF DOOR SCHEDULE
7	EXPOSED CMU PAINTED, RUNNING BOND, REF. FINISH SCHEDULE
8	TRANSLUCENT FIBERGLASS INSULATED PANEL SYSTEM, REFER TO A300 SERIES DRAWINGS FOR DETAILS
9	SOLID SURFACE SILL, REF WALL SECTIONS
10	FABRIC WRAPPED ACOUSTICAL WALL PANELS
11	ROOF ASSEMBLY, REF ROOF ASSEMBLY TYPES A105
12	FRP DOOR IN ALUMINUM FRAME, REFER TO DOOR SCHEDULE
13	4" RUBBER BASE, REF ROOM FINISH SCHEDULE
14	GYM WALL PADS, REF SPECS
15	MOTORIZED ROLL-DOWN PROJECTOR SCREEN - BY GC
16	CLOCK/SPEAKER BOX WITH CAGE, REF ELECT. DWGS FOR DETAILS
17	CEILING MOUNTED PROJECTOR - N.I.C.
18	FIRE EXTINGUISHER CABINET & AED CABINET, REFER TO G003 FOR DETAILS
19	GRAPHIC ON WALL PADS, SPECIFIED BY OWNER SEE SPECS.
20	EXPOSED HVAC DUCT WORK PAINTED , REF MECHANICAL
21	MOTORIZED BLACKOUT ROLLER SHADES, REF SPECS
22	NOT USED
23	5/8" IMPACT RESISTANT GYP BOARD PAINTED

1



Key Plan - First Floor
Scale: 1/64" = 1'-0"

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Architect

10/10/25
Date

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Pennsylvania: 140 Whitaker Avenue
Mont Clare - Pennsylvania 19453

F V H D P C . C O M

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

Project Number
5516B

Project Date
10.10.2025

Checked By
GRD

Drawn By
ETS,KM

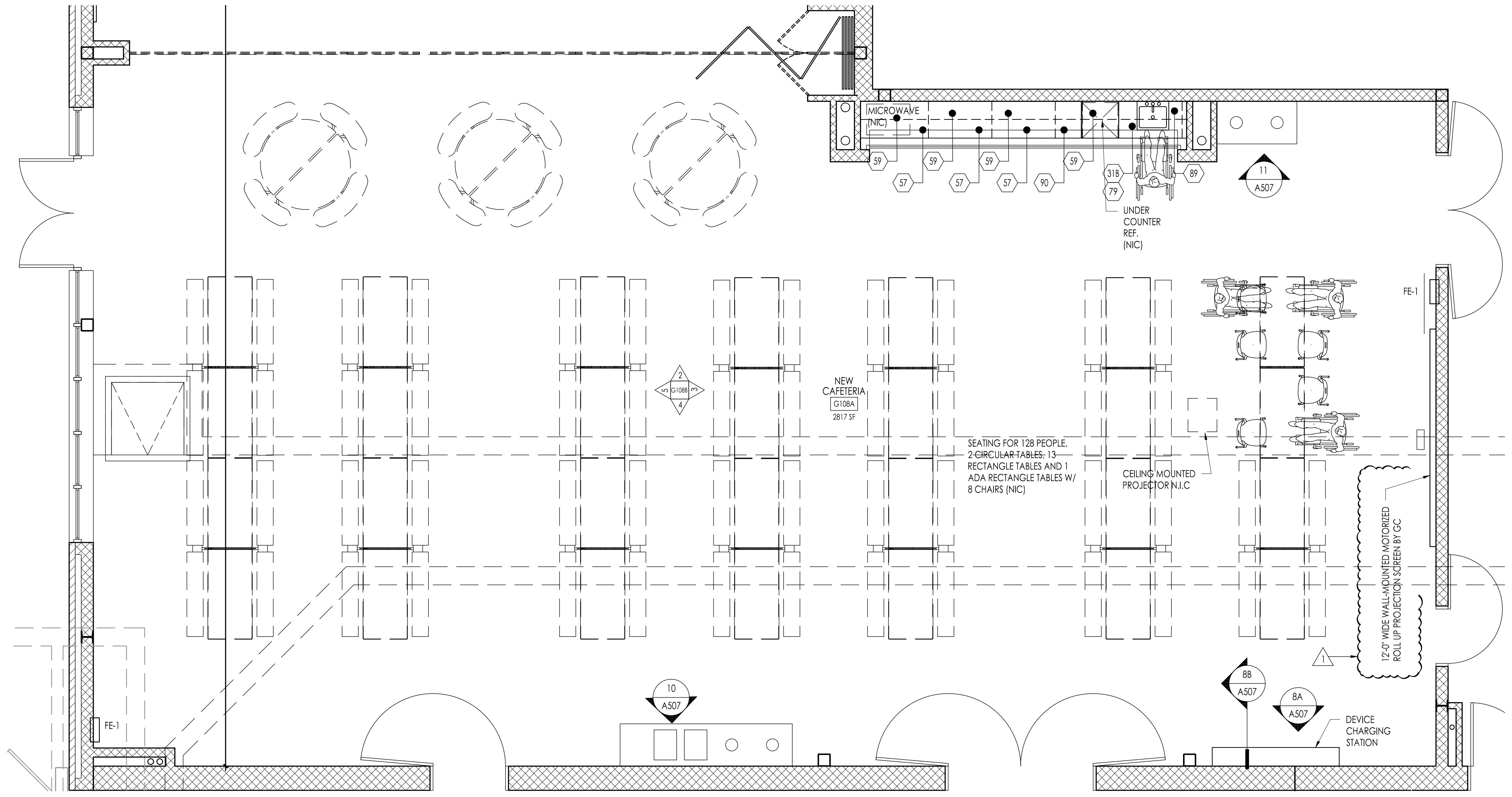
Scale
AS NOTED

Drawing Name
Enlarged Plans & Interior Elevations - Multi-Purpose Room

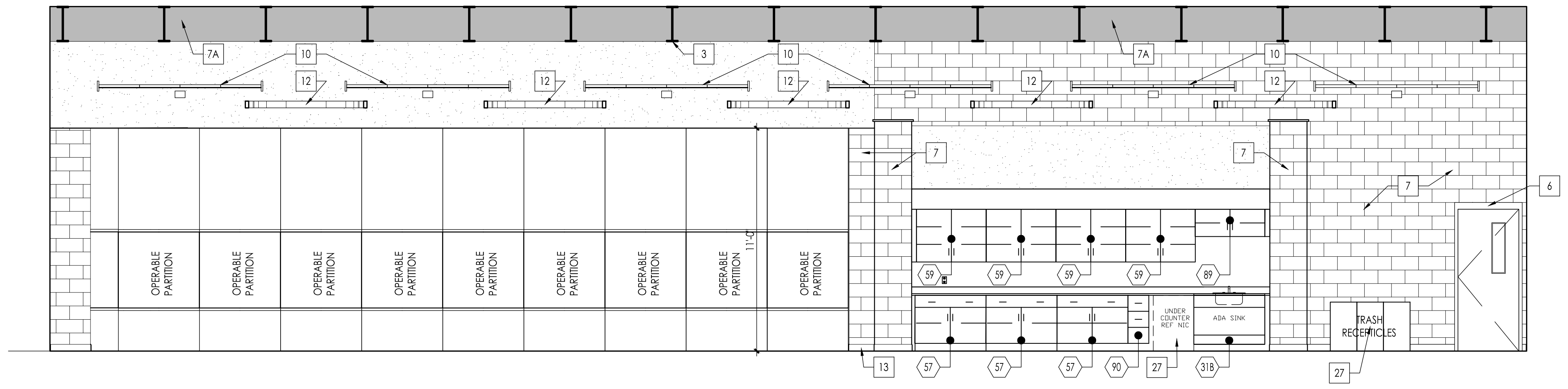
Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
1	1.14.26	ADDENDUM 1

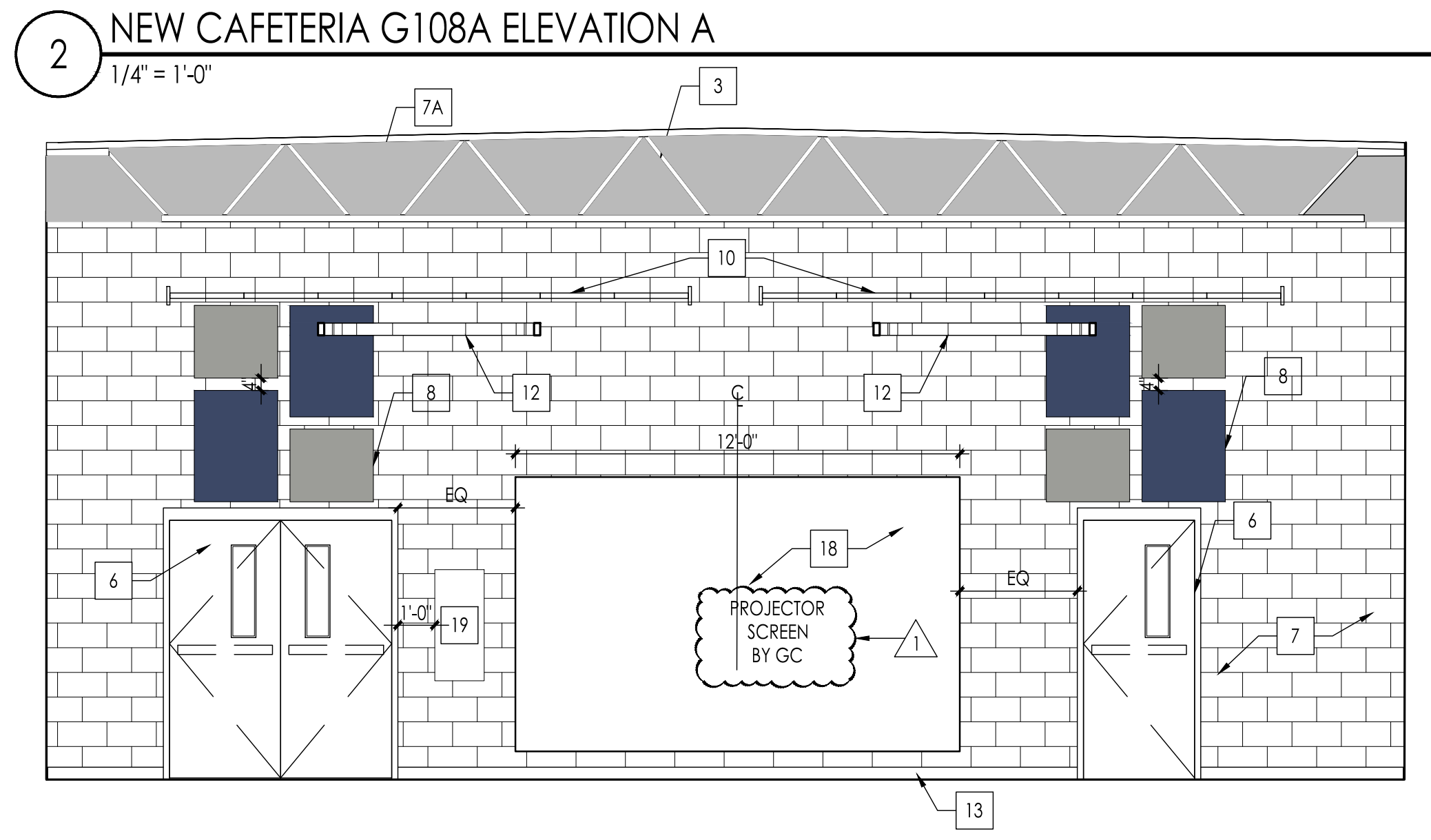
Drawing Number
A406


MICROWAVE (NIC)
UNDER COUNTER REF. (NIC)
NEW CAFETERIA
G108A
2817 SF
G108B
SEATING FOR 128 PEOPLE. ~~2 CIRCULAR TABLES,~~ 13 RECTANGLE TABLES AND 1 ADA RECTANGLE TABLES W/ 8 CHAIRS (NIC)
CEILING MOUNTED PROJECTOR N.I.C
12'-0" WIDE WALL-MOUNTED MOTORIZED ROLL UP PROJECTION SCREEN BY GC
DEVICE CHARGING STATION
FE-1
10 A507
8B A507
8A A507
11 A507

1 Room Layout - New Cafeteria, Multi-Purpose Room (Athletics), Storage
Scale: 1/4" = 1'-0"
G108A G108B G108G



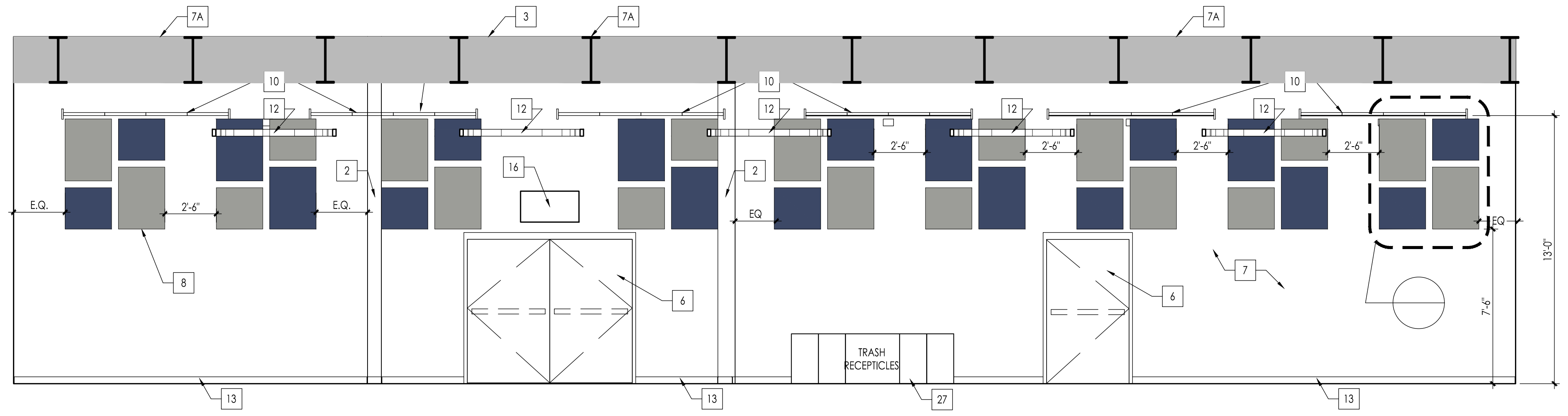
2 NEW CAFETERIA G108A ELEVATION A
1/4" = 1'-0"



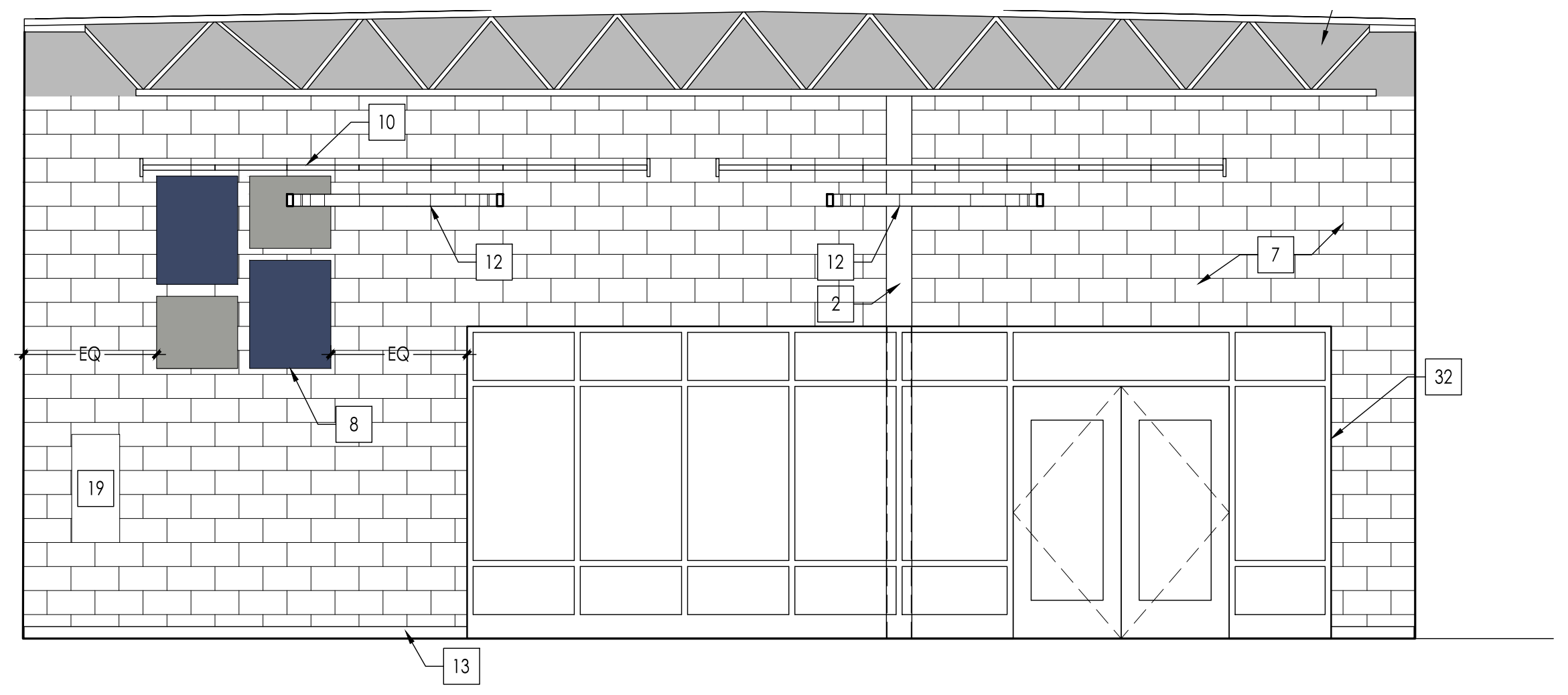
3 NEW CAFETERIA G108A ELEVATION B
1/4" = 1'-0"

FABRIC WRAPPED ACOUSTICAL WALL PANELS COLOR LEGEND :

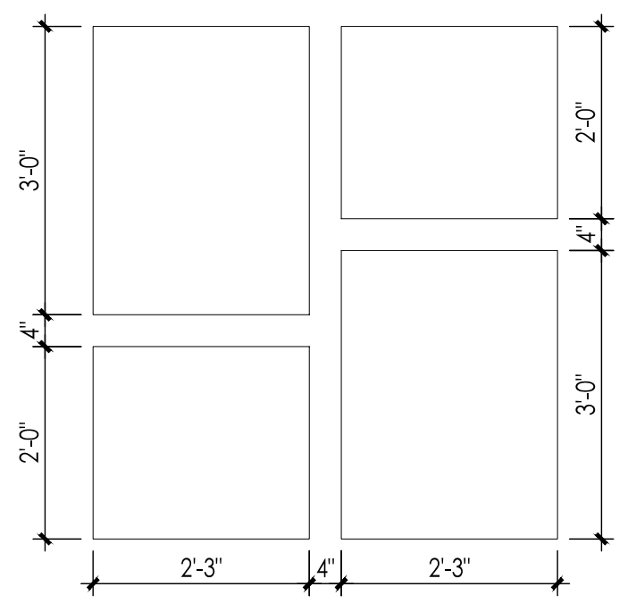
■	COLOR -1 SEE ELEVATIONS FOR PANEL DIMENSIONS
▨	COLOR -2 SEE ELEVATIONS FOR PANEL DIMENSIONS



4 NEW CAFETERIA G108A ELEVATION C
1/4" = 1'-0"



5 NEW CAFETERIA G108A ELEVATION D
1/4" = 1'-0"

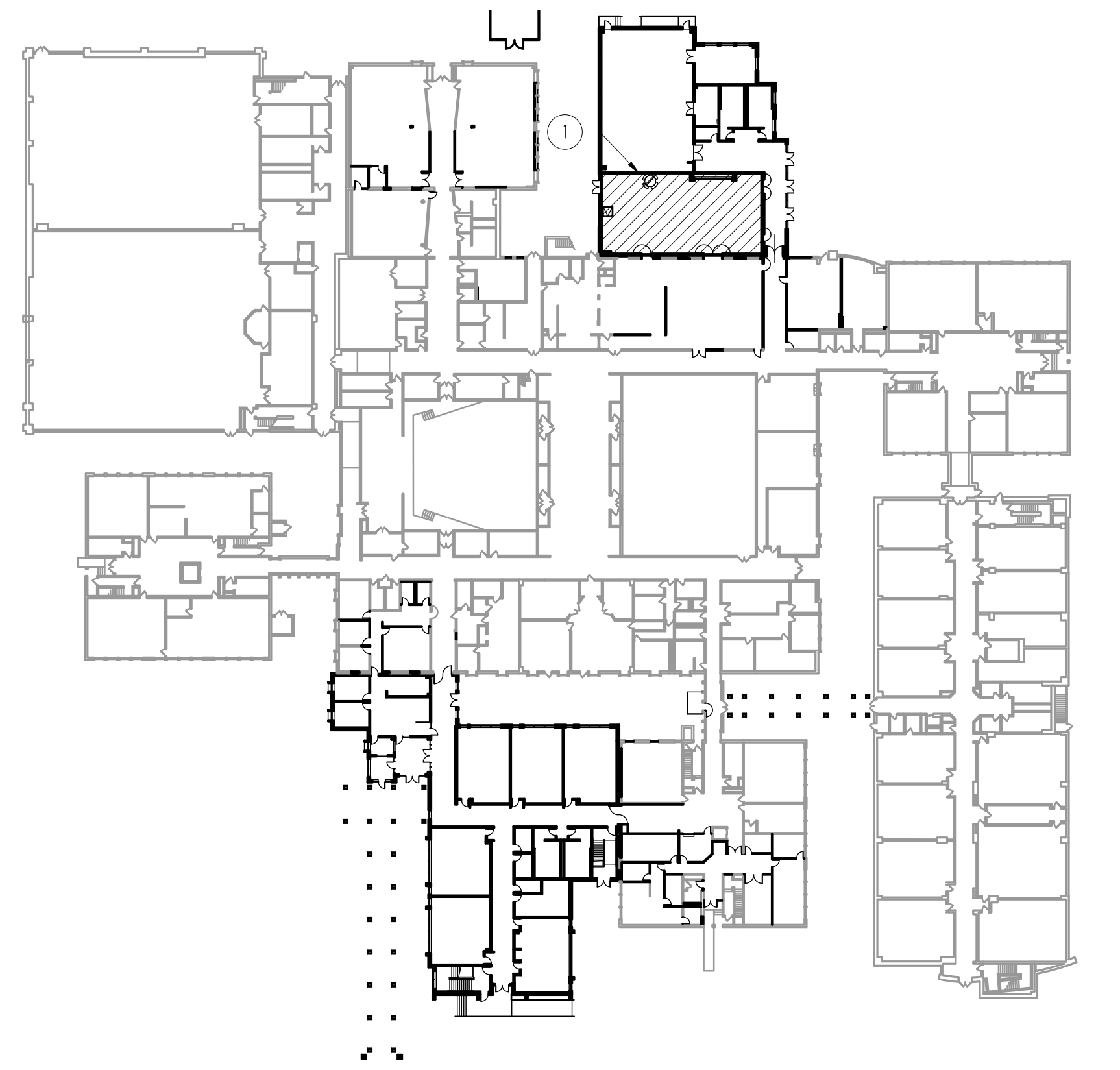


6 ACOUSTICAL PANEL LAYOUT
1/2" = 1'-0"

KEY NOTE LEGEND - CAFETERIA

1	GYPSUM BOARD PAINTED, REF A601 FOR FINISHES
2	EXPOSED STEEL COLUMN PAINTED
3	STEEL LONG SPAN JOIST PAINTED, REF STRUCTURE
4	EXIST WALL, PAINTED, REF A600 SERIES FOR FINISHES
4A	EXIST SOFFIT TO REMAIN
5	NOT USED
6	REF DOOR SCHEDULE
7	EXPOSED CMU PAINTED, RUNNING BOND
7A	PAINTED BLACK AT BOTTOM OF STEEL AND ABOVE, REF FINISH SCHEDULE FOR COLOR
8	ACOUSTICAL SOUND PANELS, REFER TO FINISH LEGEND ON A601 AND SPECIFICATIONS FOR DETAIL.
9	NOT USED
10	DECORATIVE CEILING, REF A105 FOR REFLECTED CEILING PLAN
11	NOT USED
12	LED LINEAR PENDANT/LIGHT FIXTURE, REF A105 FOR REFLECTED CEILING PLAN
13	4" RUBBER BASE, REF A601
14	NOT USED
15	BLACK-OUT MOTORIZED ROLLING SHADES, REF FINISH LEGEND + SPECS
16	CLOCK/SPEAKER BOX, REF ELECT. DWGS FOR DETAILS
17	SHORT THROW PROJECTOR, BY OWNER (N.I.C.)
18	ROLL-DOWN PROJECTOR SCREEN BY GC
19	FIRE EXTINGUISHER CABINET & AED CABINET, REFER TO G003 FOR DETAILS
20	EXISTING ADA COMPLIANT DRINKING FOUNTAIN, REF PLAN DRAWINGS
21	NOT USED
22	EXISTING SOFFIT, REPLACE EXISTING LIGHTING FIXTURES
23	PLASTIC LAMINATE CABINET, SEE CASEWORK SCHEDULE
24	NOT USED
25	EXISTING DIVIDER WALL, REFINISH, REF A700 FOR FINISHES
26	NOT USED
27	FURNITURE/EQUIPMENT NOT IN CONTRACT, FOR REFERENCE ONLY
28	NOT USED
29	NOT USED
30	NEW KITCHEN EQUIPMENT, PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
31	EXISTING KITCHEN EQUIPMENT TO BE RELOCATED
32	ALUMINUM WINDOW SYSTEM, REF A600 SERIES DRAWINGS

1



Key Plan - First Floor
Scale: 1/64" = 1'-0"

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STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

Architect
10/10/25
Date

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane, Princeton, NJ 08540

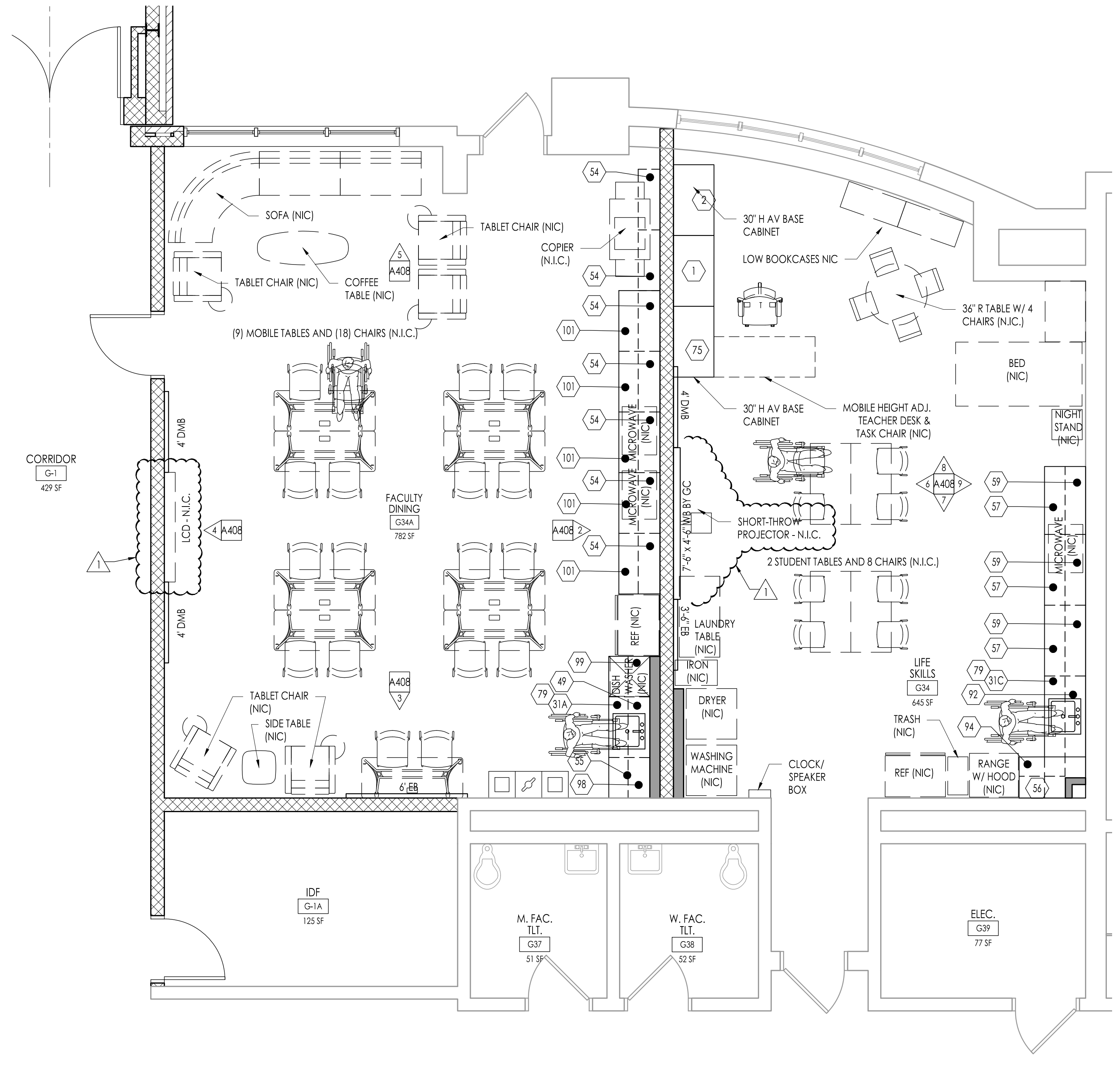
Project Number
5516B
Project Date
10.10.2025
Checked By
GRD
Drawn By
ETS
Scale
AS NOTED

Drawing Name
Enlarged Plans & Interior Elevations - New Cafeteria

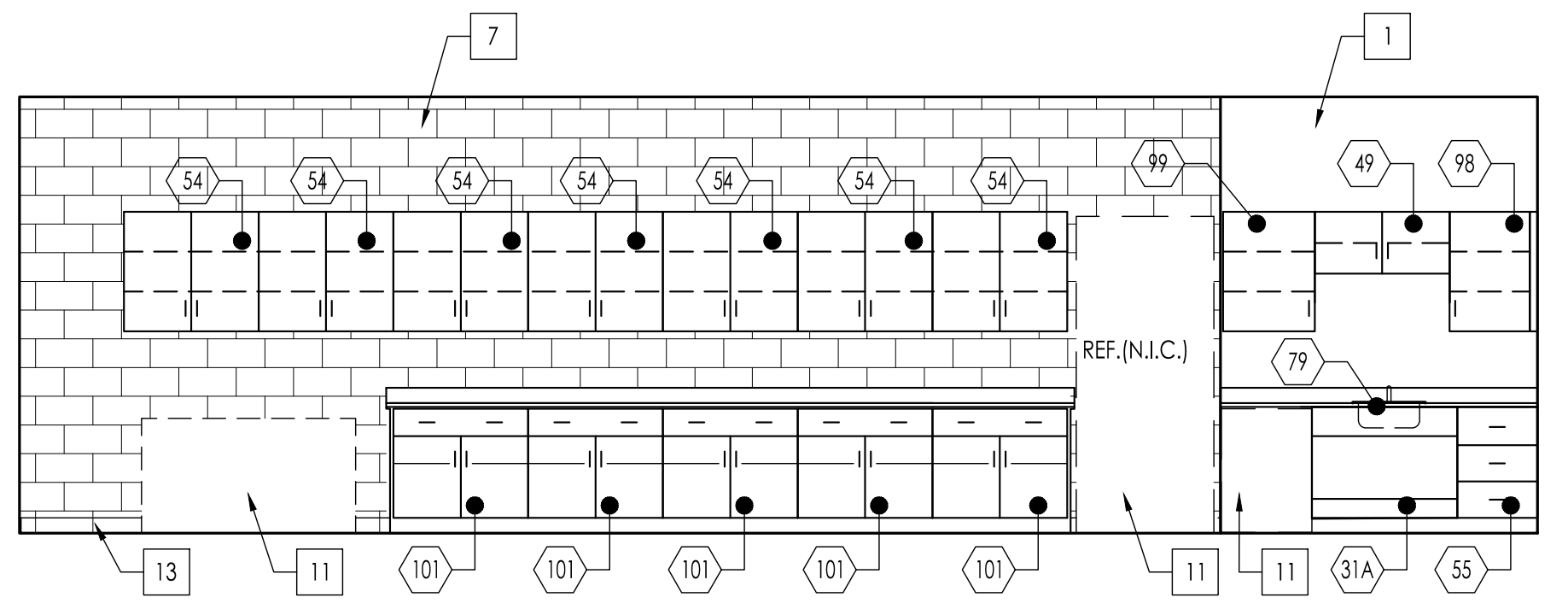
Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
1	1.14.26	ADDENDUM 1

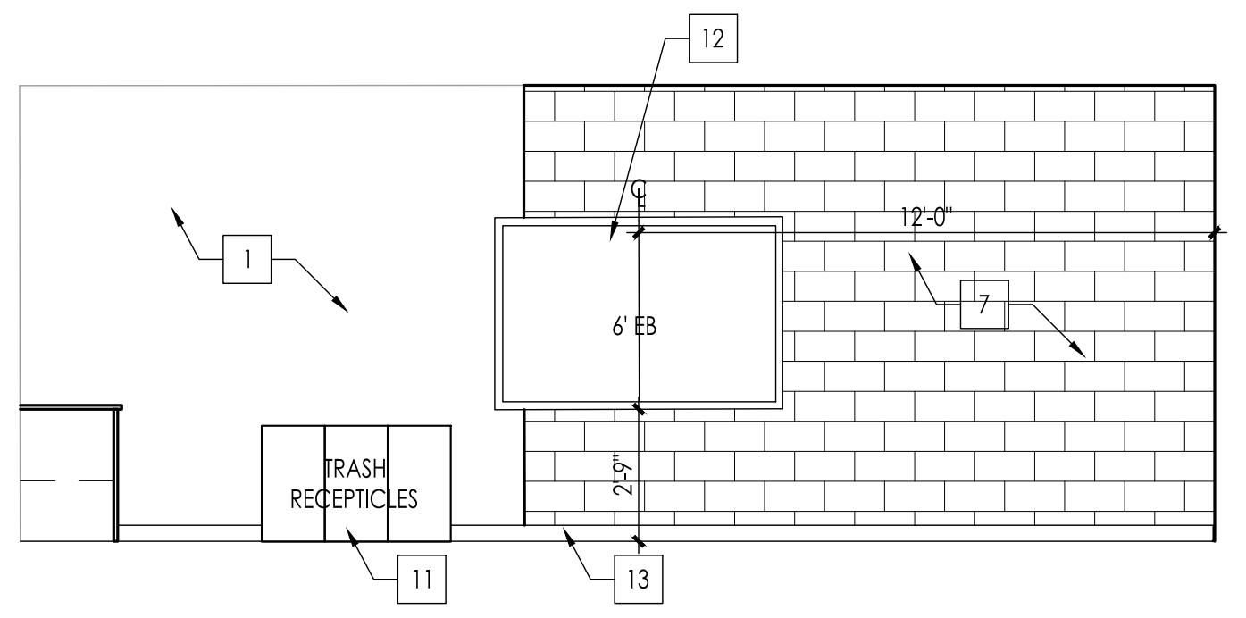
Drawing Number
A407



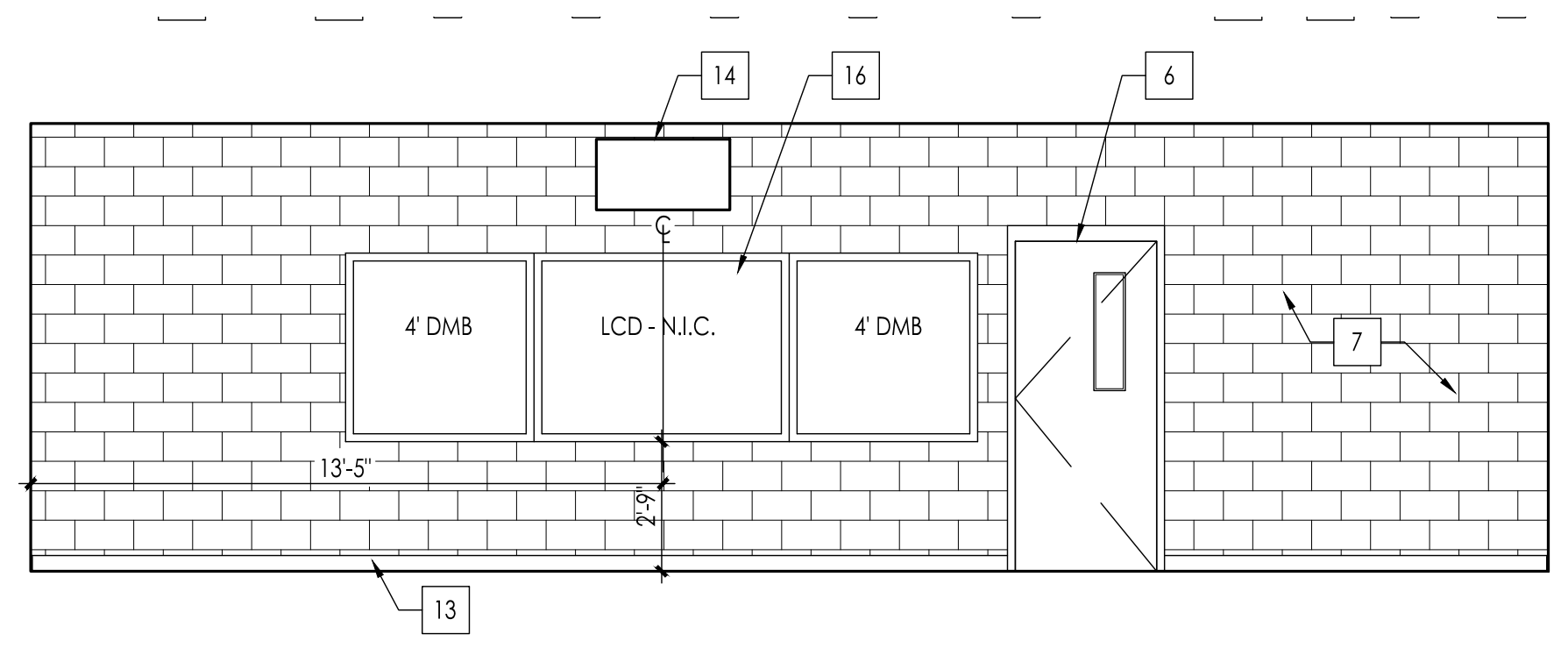
1 Room Layout - Faculty Dining and Life Skills
Scale: 1/4" = 1'-0" G33A G33



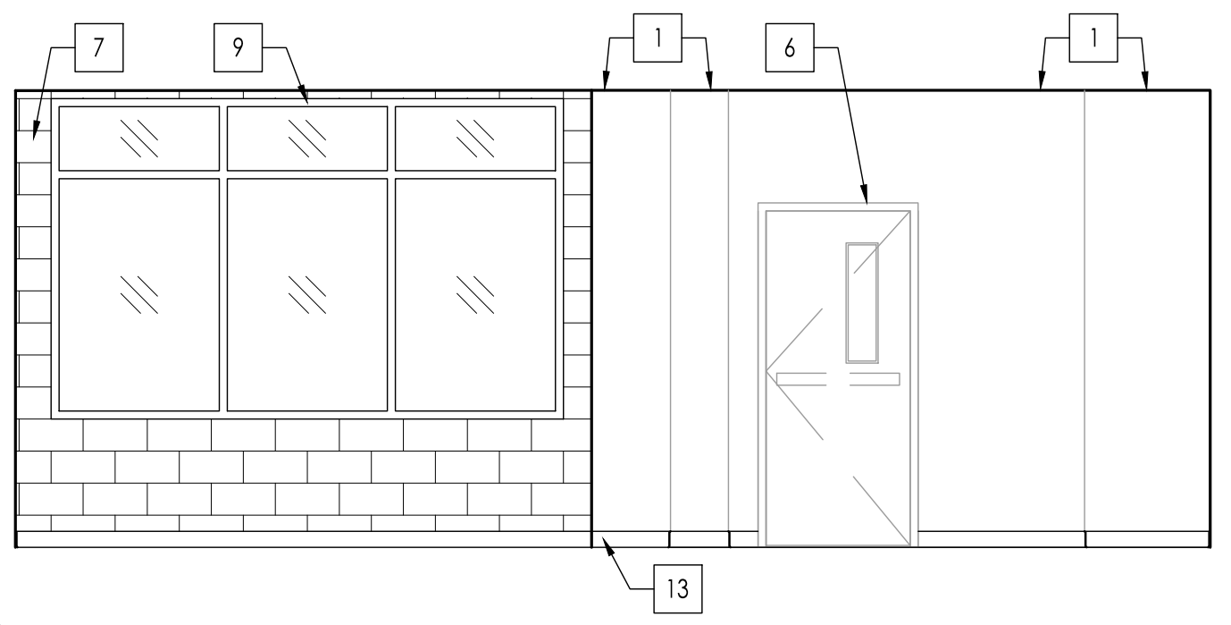
2 G33A Faculty Dining - Interior Elevation
1/4" = 1'-0"



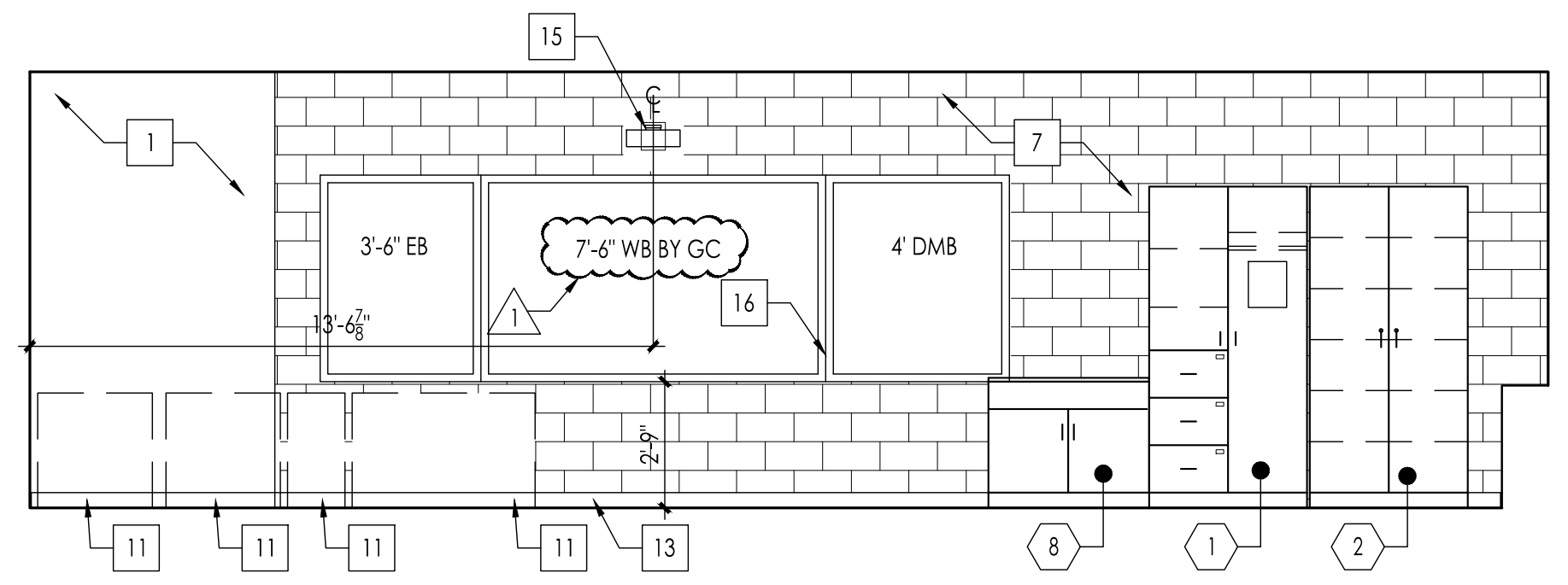
3 G33A Faculty Dining - Interior Elevation
1/4" = 1'-0"



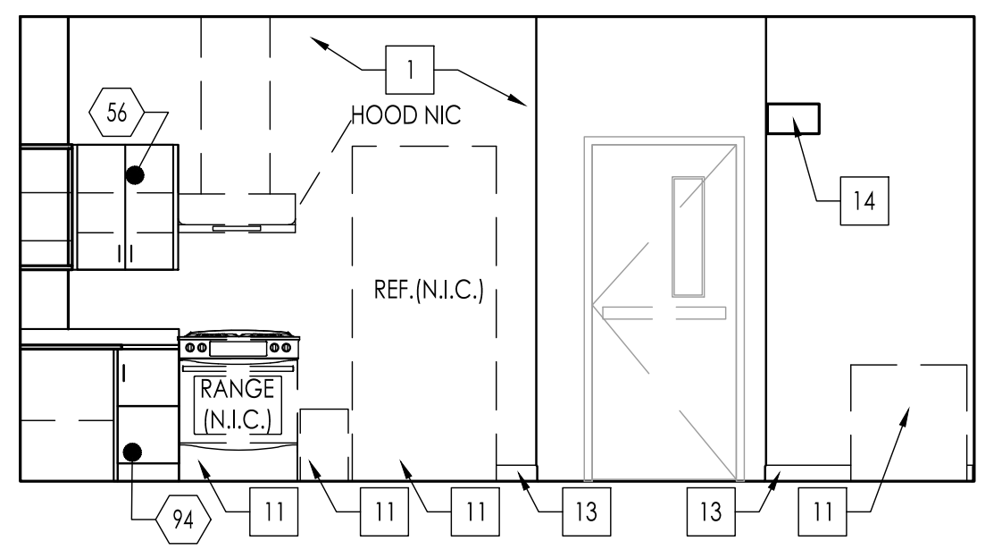
4 G33A Faculty Dining - Interior Elevation
1/4" = 1'-0"



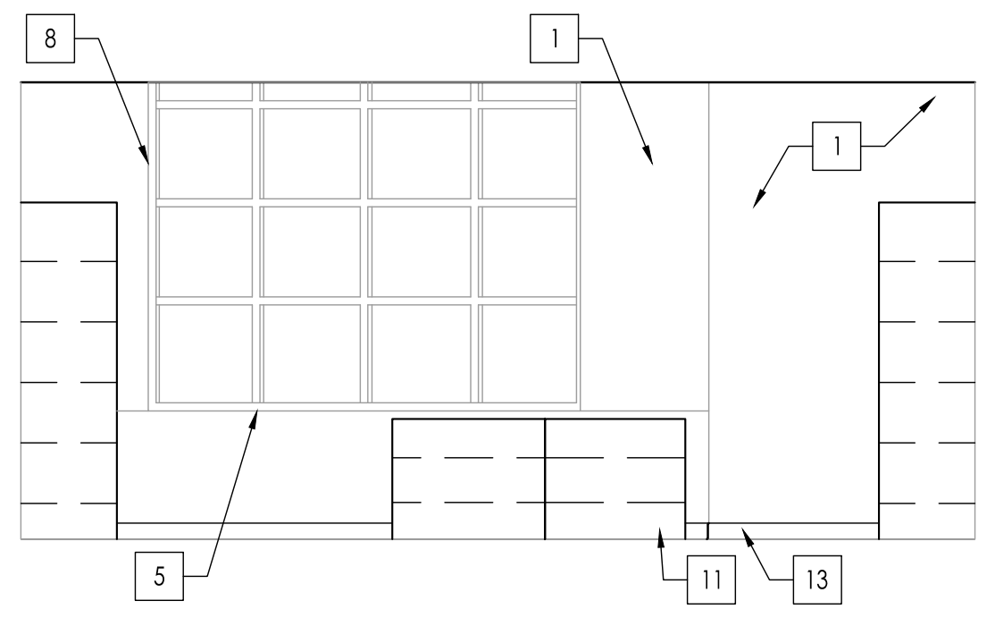
5 G33A Faculty Dining - Interior Elevation
1/4" = 1'-0"



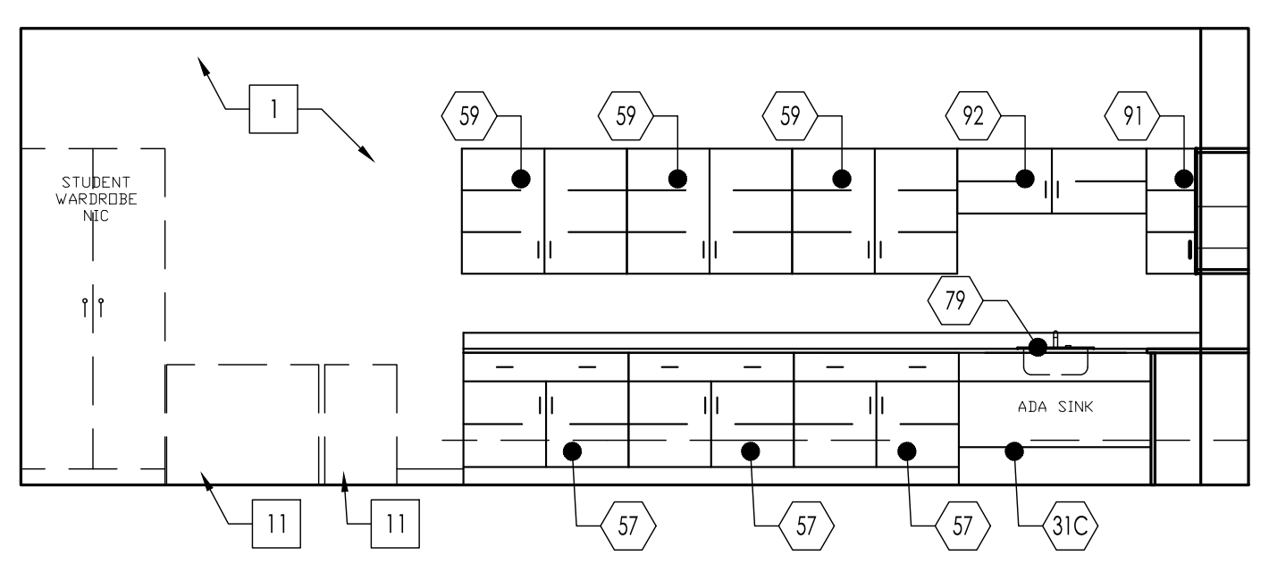
6 G33 Life Skills - Interior Elevation
1/4" = 1'-0"



7 G33 Life Skills - Interior Elevation
1/4" = 1'-0"



8 G33 Life Skills - Interior Elevation
1/4" = 1'-0"

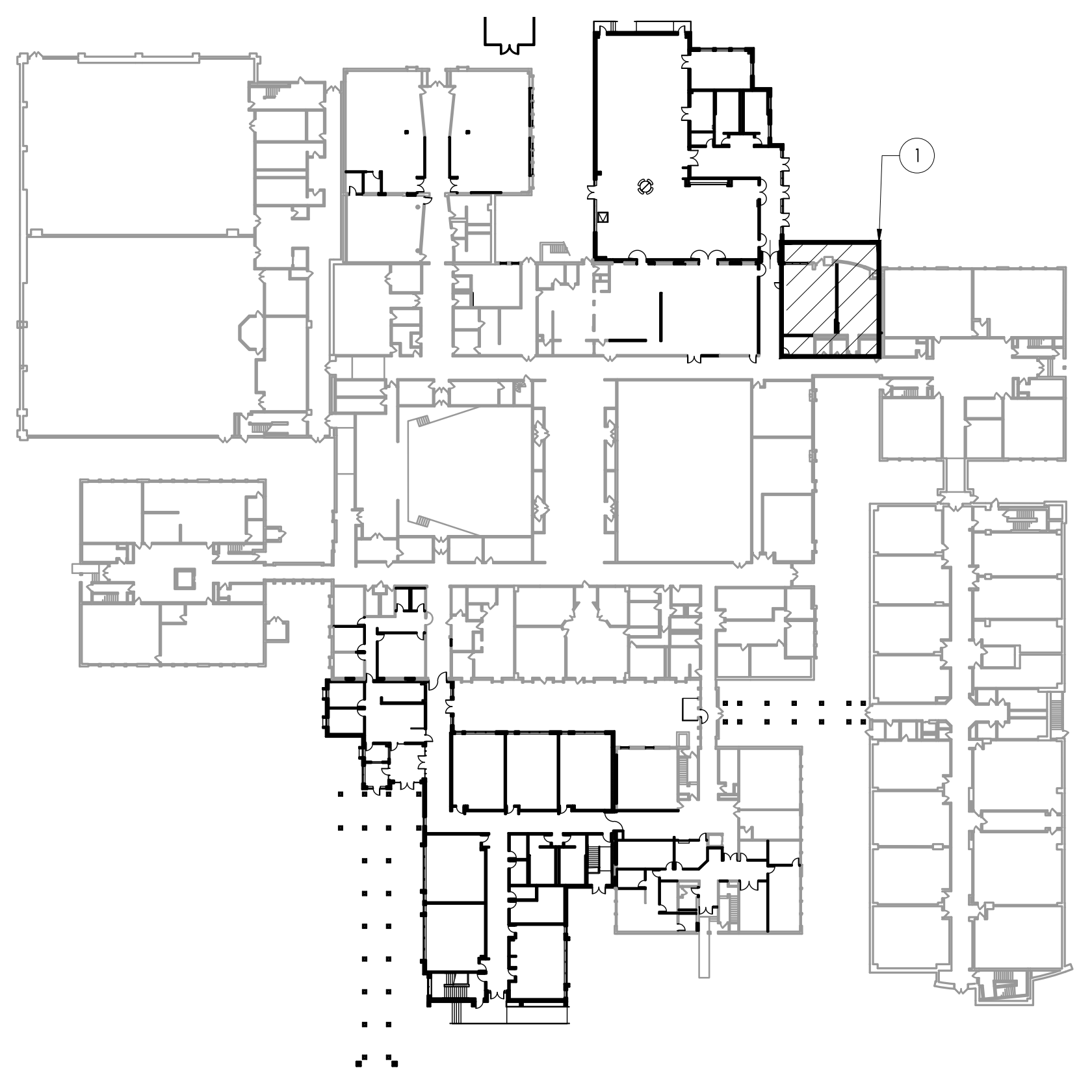


9 G33 Life Skills - Interior Elevation
1/4" = 1'-0"

KEY NOTE LEGEND - FACULTY/LIFE SKILLS

1	EXIST TILE WALL, REF A700 SERIES FOR FINISHES
2	NOT USED
3	NOT USED
4	NOT USED
5	EXISTING SOLID SURFACE SILL, REF 44A/A310 FOR "SIM" CONDITION AND B/A304 FOR WINDOW SILL
6	WOOD DOOR AND HOLLOW METAL FRAME, REF DOOR SCHEDULE
7	EXPOSED CMU PAINTED, RUNNING BOND, REF STRUCTURE FOR VERTICAL AND HORIZONTAL REINFORCEMENT
8	EXISTING ALUMINUM WINDOW SYSTEM
9	ALUMINUM WINDOW SYSTEM, REF A600 SERIES DRAWINGS
10	NOT USED
11	FURNITURE/EQUIPMENT NOT IN CONTRACT, FOR REFERENCE ONLY
12	DRY MARKERBOARD/EXHIBITION BOARD, REF 4/A400 FOR TYP CONDITION
13	4" RUBBER BASE, REF A604
14	CLOCK/SPEAKER BOX, REF ELECT. DWGS FOR DETAILS
15	SHORT THROW PROJECTOR - N.I.C.
16	TEACHING WALL, REF 1/A400 FOR TYP CONDITION

1



Key Plan - First Floor
Scale: 1/64" = 1'-0"

NJDCA Electronic Release Stamp

WILLIAM D. HOPKINS III, AIA, LEED AP
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Architect
10/10/25
Date

FVHD architects planners
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F V H D P C . C O M

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

Project Number
5516B
Project Date
10.10.2025
Checked By
GRD
Drawn By
KM
Scale
AS NOTED

Drawing Name
Enlarged Plans & Interior Elevations - Faculty Dining & Life Skills

Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
1	1.14.26	ADDENDUM 1

Drawing Number
A408

ROOM FINISH SCHEDULE - BLOCK A - FIRST FLOOR

NUMBER	ROOM NAME	FLOOR	BASE		WAINSCOT		WALL FINISH	CEILING		NOTES
			MAT.	HT.	MAT.	HT.		MAT.	HT.	
C-MDF	FUTURE M.D.F.	VCT-NC	RUB	4"	--	--	ETR-P / GP	EXP-P	--	SEE ROOM FINISH SCHEDULE NOTE 9
C-ST1	BULK STOR.	VCT-NC	RUB	4"	--	--	ETR-P / GP	ACB-1	8'-0"	SEE ROOM FINISH SCHEDULE NOTE 9
C-ST2	SECURED I.T. STOR.	VCT-NC	RUB	4"	--	--	ETR-P / GP	ACB-1	8'-0"	SEE ROOM FINISH SCHEDULE NOTE 9
C-ST3	I.T. STORAGE	VCT-NC	RUB	4"	--	--	ETR-P / GP	ACB-1	8'-0"	SEE ROOM FINISH SCHEDULE NOTE 9
C1	CORR.	ETR	ETR / RUB	ETR / 4"	--	--	ETR / GEP	ETR	ETR	SEE ROOM FINISH SCHEDULE NOTE 6
C1-1	CORR.	LVT	RUB	4"	--	--	CEP / GEP	ACB-1	9'-0"	--
C100	I.T. PASS.	LVT / CPT-T	RUB	4"	--	--	ETR-P / GP	ACB-1	8'-0"	SEE ROOM FINISH SCHEDULE NOTE 1, 2, 9
C101	CLASSROOM	ETR	ETR / RUB	ETR / 4"	--	--	EX BRICK / ETR-P / GP	ETR	ETR	--
C102	HELP DESK	CPT-T	RUB	4"	--	--	ETR-P / GP	ACB-1	8'-0"	SEE ROOM FINISH SCHEDULE NOTE 2, 9
C102B	S.G.I.	LVT	RUB	4"	--	--	ETR-P / GP	--	--	SEE ROOM FINISH SCHEDULE NOTE 11
C102B1	FAN ROOM	LVT	RUB	4"	--	--	ETR-P / GP	ACB-1	9'-6"	SEE ROOM FINISH SCHEDULE NOTE 11
C103	I.T. OFFICE	CPT-T	RUB	4"	--	--	ETR-P / GP	ACB-1	8'-0"	SEE ROOM FINISH SCHEDULE NOTE 9
C103A	CONFERENCE ROOM	CPT-T	RUB	4"	--	--	GP	ACB-1	8'-0"	SEE ROOM FINISH SCHEDULE NOTE 9
C103B	CTO OFFICE	CPT-T	RUB	4"	--	--	GP	ACB-1	8'-0"	SEE ROOM FINISH SCHEDULE NOTE 9
C103B1	CLASSROOM	ETR	ETR / RUB	ETR / 4"	--	--	EX BRICK / ETR-P / GP	ETR	ETR	SEE ROOM FINISH SCHEDULE NOTE 11
C103C	TLT. RM.	RSF	RSF	4"	FRP	5'-0"	ETR-EP / CEP / GEP	AACB	8'-0"	SEE ROOM FINISH SCHEDULE NOTE 9
C106	I.T. WORKSHOP	VCT-NC	RUB	4"	--	--	ETR-P / GP	ACB-1	8'-0"	SEE ROOM FINISH SCHEDULE NOTE 9
C12	TLT. RM.	RSF	RSF	4"	FRP	5'-0"	ETR-EP / GEP	AACB	8'-0"	SEE ROOM FINISH SCHEDULE NOTE 9
G01B	TLT RM	RSF	RSF	4"	FRP	5'-0"	ETR-EP / GEP	AACB	8'-0"	--
G01C	TLT RM	RSF	RSF	4"	FRP	5'-0"	ETR-EP / GEP	AACB	8'-0"	--
G02	PRINCIPAL'S OFFICE	CPT-T	RUB	4"	--	--	EX BRICK / ETR-P / GP	ACB-1	8'-0"	--
G03	OFFICE	CPT-T	RUB	4"	--	--	EX BRICK / ETR-P / GP	ACB-1	8'-0"	--
G04	OFFICE	CPT-T	RUB	4"	--	--	EX BRICK / BRICK / ETR-P / GP	ACB-1	8'-0"	--
G05	PASS.	CPT-T	RUB	4"	--	--	ETR-P / GP	ACB-1 / GP	8'-0"	SEE ROOM FINISH SCHEDULE NOTE 1
G06	CONFERENCE ROOM	CPT-T	RUB	4"	--	--	EX BRICK / BRICK / ETR-P / GP	ACB-1	8'-0"	--
G10	WORKROOM	ETR	ETR / RUB	ETR / 4"	--	--	ETR / GP	ETR	ETR	--
G2	CORRIDOR	ETR / LVT	ETR / RUB	ETR / 4"	ETR	ETR	ETR / GEP	ETR / ACB-1	ETR	SEE ROOM FINISH SCHEDULE NOTE 2
H-A	CORRIDOR	LVT	RUB	4"	--	--	CEP	ACB-1	9'-8"	--
H-B	CORRIDOR	LVT	RUB	4"	--	--	CEP / GP	ACB-1 / GP	9'-0" / 8'-6"	SEE ROOM FINISH SCHEDULE NOTE 1
H-C	CORRIDOR	LVT	RUB	4"	--	--	CEP / GP	ACB-1	9'-0"	--
H01	MAIN OFFICE	CPT-T	RUB	4"	--	--	CP	ACB-1 / GP	9'-8"	SEE ROOM FINISH SCHEDULE NOTE 1
H02	OFFICE	CPT-T	RUB	4"	--	--	CP	ACB-1	9'-8"	--
H03	OFFICE	CPT-T	RUB	4"	--	--	CP	ACB-1	9'-8"	--
H04	SECURITY	CPT-T	RUB	4"	--	--	CP	ACB-1	9'-8"	--
H05	SECURE VESTIBULE	CEM	RUB	4"	--	--	CP	ACB-1	9'-8"	--
H06	LOBBY	LVT	RUB	4"	--	--	CEP	ACB-2	9'-8"	--
H07	CLASSROOM	LVT	RUB	4"	--	--	CP	ACB-1	9'-8"	--
H08	CLASSROOM	LVT	RUB	4"	--	--	CP	ACB-1	9'-8"	--
H09A	CLASSROOM	LVT	RUB	4"	--	--	CP	ACB-1	9'-8"	SEE ROOM FINISH SCHEDULE NOTE 1
H09B	CLASSROOM	LVT	RUB	4"	--	--	CP	ACB-1	9'-8"	SEE ROOM FINISH SCHEDULE NOTE 1
H10	MECH./ELECT.	CONC-P	RUB	4"	--	--	CEP	EXP-P	11'-6"	SEE ROOM FINISH SCHEDULE NOTE 5
H10A	JAN.	RSF	RUB	4"	FRP	5'-0"	CEP	EXP-P	11'-6"	SEE ROOM FINISH SCHEDULE NOTE 5
H11A	WOMENS TLT. RM.	RSF	RSF	4"	FRP	5'-0"	CEP	AACB	8'-6"	
H11B	MENS TLT. RM.	RSF	RSF	4"	FRP	5'-0"	CEP	AACB	8'-6"	
H11C	STOR.	LVT	RUB	4"	--	--	CP	ACB-1	8'-6"	
H11D	IDF	LVT	RUB	4"	--	--	CP	ACB-1	8'-6"	--
H12	CLASSROOM	LVT	RUB	4"	--	--	CP	ACB-1	9'-8"	--
H13	CLASSROOM	LVT	RUB	4"	--	--	CP	ACB-1	9'-8"	--
H14	CLASSROOM	LVT	RUB	4"	--	--	CP	ACB-1	9'-8"	--
HS1	STAIR	RRT	RUB	4"	--	--	CEP	EXP-P	--	--
HS2	STAIR	RRT	RUB	4"	--	--	CEP	EXP-P	--	--

ROOM FINISH SCHEDULE - BLOCK B

NUMBER	ROOM NAME	FLOOR	BASE		WAINSCOT		WALL FINISH	CEILING		NOTES
			MAT.	HT.	MAT.	HT.		MAT.	HT.	
A101	ORCHESTRA ROOM	LVT	--	–	--	--	BRICK / EX. BRICK / ETR-P / GP	--	--	--
A101A	PRACT.	CPT-T	RUB	4"	--	--	ETR-P / GP	ACB-1	9'-0"	--
A102	BAND ROOM	CPT-T / LVT	RUB	4"	--	--	BRICK / EX BRICK / ETR-P / GP	--	--	--
A102A	PRACT.	CPT-T	RUB	4"	--	--	ETR-P / CP / GP	ACB-1	9'-0"	--
A103	CHOIR ROOM	LVT	RUB	4"	--	--	ETR-P / GP	--	--	--
AC1	CORRIDOR	ETR	ETR	ETR	--	--	ETR-P	ETR	ETR	--
AC2	CORRIDOR	LVT	RUB	4"	--	--	ETR-EP / GEP	ACB-1	8'-0"	--
G-1	CORRIDOR	LVT	RUB	4"	--	--	CEP	ACB-1	9'-0"	--
G-1A	IDF	LVT	RUB	4"	--	--	ETR-P / CP	EXP-P	ETR	--
G-2	LOBBY	LVT	RUB	4"	--	--	CEP	ACB-1 / GP	9'-0" / 8'-6"	SEE ROOM FINISH SCHEDULE NOTE 1
G108	CAFETERIA	LVT	RUB	4"	--	--	BRICK / EX. BRICK / ETR-P / CP	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 8, 10
G108A	NEW CAFETERIA	LVT	RUB	4"	--	--	CP	DSC-1	13'-0"	SEE ROOM FINISH SCHEDULE NOTE 10
G108B	MULTI-PURPOSE ROOM	RAS	VRB	4"	--	--	CEP	EXP-P	25'-6"	SEE ROOM FINISH SCHEDULE NOTE 4, 5
G108C	JAN.	RSF	RSF	4"	--	FRP	CEP	EXP-P	10'-8"	SEE ROOM FINISH SCHEDULE NOTE 5
G108D	MECH./ELECT.	CONC-P	RUB	4"	--	--	CP	EXP-P	10'-8"	SEE ROOM FINISH SCHEDULE NOTE 5
G108E	WOMENS TLT RM	RSF	RSF	4"	FRP	--	CEP	AACB	9'-0"	SEE ROOM FINISH SCHEDULE NOTE
G108F	MENS TLT RM	RSE	RSF	4"	FRP	--	CEP	AACB	9'-0"	--
G108G	STORAGE	CONC-P	RUB	4"	--	--	CP	EXP-P	10'-8"	SEE ROOM FINISH SCHEDULE NOTE 5
G109D	SERVING	QZ-T	QZ-T	4"	--	--	BRICK / EX BRICK / ETR-P / CP	GP	9'-8"	SEE ROOM FINISH SCHEDULE NOTE 8
G33	ENSEMBLE MUSIC	CPT-T	RUB	4"	--	--	ETR-P	ACB-1	9'-8"	--
G34	LIFE SKILLS	LVT	RUB	4"	--	--	ETR-P / CP	ACB-1	9'-6"	SEE ROOM FINISH SCHEDULE NOTE 8
G34A	FACULTY DINING	LVT	RUB	4"	--	--	ETR-P / CP	ACB-1	9'-6"	SEE ROOM FINISH SCHEDULE NOTE 8

ROOM FINISH SCHEDULE - BLOCK A - SECOND FLOOR

NUMBER	ROOM NAME	FLOOR	BASE		WAINSCOT		WALL FINISH	CEILING		NOTES
			MAT.	HT.	MAT.	HT.		MAT.	HT.	
C2-1	CORR.	LVT / RRT	RUB	4"	--	--	ETR-EP / CEP	ACB-1	VARIES	SEE ROOM FINISH SCHEDULE NOTE 1
C201	SOCIAL STUDIES	ETR	ETR / RUB	ETR / 4"	--	--	ETR / GP	ETR	ETR	SEE ROOM FINISH SCHEDULE NOTE 7
C202	SGI.	LVT	RUB	4"	--	--	ETR-P / CP / GP	ACB-1	9'-8"	--
C202A	FAN ROOM	LVT	RUB	4"	--	--	ETR-P / CP / GP	ACB-1	9'-8"	--
C203	ENGLISH	ETR	ETR / RUB	ETR / 4"	--	--	ETR / GP	ETR	ETR	SEE ROOM FINISH SCHEDULE NOTE 7
H21	SCIENCE CLASSROOM	LVT	RUB	4"	--	--	CP	ACB-1	9'-8"	--
H22	SCIENCE CLASSROOM	LVT	RUB	4"	--	--	CP	ACB-1	9'-8"	--
H23	STOR. / ROOF ACCESS	CONC-P	RUB	4"	--	--	CP	EXP-P	13'-3"	SEE ROOM FINISH SCHEDULE NOTE 5
H24	CLASSROOM	LVT	RUB	4"	--	--	CP	ACB-1	9'-8"	--
H25	CLASSROOM	LVT	RUB	4"	--	--	CP	ACB-1	9'-8"	--
H26A	CLASSROOM	LVT	RUB	4"	--	--	CP	ACB-1	9'-8"	SEE ROOM FINISH SCHEDULE NOTE 1
H26B	CLASSROOM	LVT	RUB	4"	--	--	CP	ACB-1	9'-8"	SEE ROOM FINISH SCHEDULE NOTE 1
H27	MECH. / ELECT.	CONC-P	RUB	4"	--	--	CP	EXP-P	13'-1"	SEE ROOM FINISH SCHEDULE NOTE 5
H27A	JAN.	RSF	RSF	4"	FRP	5'-0"	CEP	EXP-P	13'-1"	SEE ROOM FINISH SCHEDULE NOTE 5
H28A	WOMEN'S TLT. RM.	RSF	RSF	4"	FRP	5'-0"	CEP	AACB	8'-6"	--
H28B	MEN'S TLT. RM.	RSF	RSF	4"	FRP	5'-0"	CEP	AACB	8'-6"	--
H28C	STORAGE	LVT	RUB	4"	--	--	CP	ACB-1	8'-6"	--
HC-1	CORRIDOR	LVT	RUB	4"	--	--	CEP / GP	ACB-1 / GP	9'-0" / 8'-6"	SEE ROOM FINISH SCHEDULE NOTE 1
HC-2	CORRIDOR	LVT	RUB	4"	--	--	CEP / GP	ACB-1	9'-0"	--
HS1	STAIR	RRT	RUB	4"	--	--	CEP	ACB-1	9'-8"	--
HS2	STAIR	RRT	RUB	4"	--	--	CEP	ACB-1	9'-8"	--
ST1	SCIENCE PREP.	LVT	RUB	4"	--	--	CP	ACB-1	9'-0"	--

GENERAL FINISH NOTES:

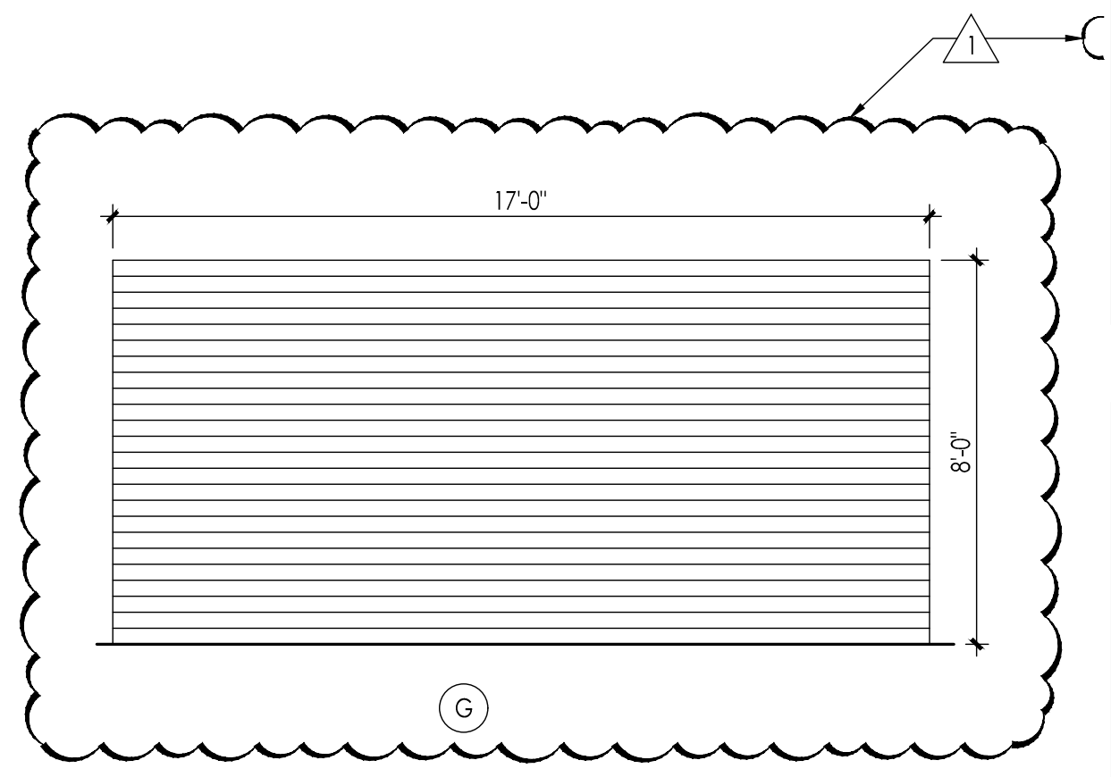
A. SEE SPECIFICATION FOR ADDITIONAL INFORMATION ON MATERIALS / MANUFACTURER / PERFORMANCE AND WARRANTY INFORMATION.
B. MATERIALS LISTED ON THE FINISH SCHEDULE REFER TO THE MAJORITY OF WALLS, FLOOR AND CEILING OF ROOMS SCHEDULED. REFER TO PLANS, DETAILS, INTERIOR ELEVATIONS, CEILING PLANS,AND NOTES FOR THOSE MATERIALS NOT INDICATED ON THE SCHEDULE BUT ARE STILL REQUIRED IN THE ROOM.
C. ALL CLASSROOMS TO RECEIVE AN ACCENT PAINT COLOR AT TEACHING WALL.

ABBREVIATIONS

AACB	- ACRYLIC ACOUSTIC CEILING BOARD (2' x 4')
ACB-1	- ACOUSTIC CEILING BOARD TYPE 1 (2' x 4' TYP.)
ACB-2	- ACOUSTIC CEILING BOARD TYPE 1 (2' x 2' TYP.)
CEP	- CONCRETE MASONRY UNIT - EPOXY PAINTED
CONC-P	- CONCRETE PAINTED
CP	- CONCRETE MASONRY UNIT - PAINTED
ETR	- EXISTING TO REMAIN
ETR-P	- EXISTING TO REMAIN - PAINTED
ETR-EP	- EXISTING TO REMAIN - EPOXY PAINTED
EXP-P	- EXPOSED CONSTRUCTION - PAINTED
FRP	- FIBERGLASS REINFORCED PLASTIC
GEP	- GYPSUM BOARD - EPOXY PAINTED
GP	- GYPSUM BOARD - PAINTED
LVT	- LUXURY VINYL TILE
QZ-T	- QUARTZ TILE
RSF	- RESILIENT SHEET FLOORING
RUB	- RUBBER BASE
VCT-NC	- VINYL COMPOSITE TILE - NON-CONDUCTIVE
VRB	- VENTED RUBBER BASE

ROOM FINISH SCHEDULE NOTES:

1. CEILING HEIGHT / MATERIAL VARIES - SEE REFLECTED CEILING PLAN.
2. NEW CEILING HEIGHT TO MATCH EXISTING.
3. FLOOR MATERIAL VARIES - SEE ROOM LAYOUT.
4. ACOUSTICAL PANELS - SEE ROOM LAYOUT AND INTERIOR ELEVATIONS.
5. CEILING HEIGHT IS TO UNDERSIDE OF EXPOSED STRUCTURE ABOVE.
6. NEW FINISHES SHALL APPLY TO NEW WALLS, ETC. EXISTING FINISHES SHALL REMAIN. NEW FINISHES TO MATCH EXISTING.
7. PATCH ALL FINISHES TO MATCH EXISTING ADJACENT SURFACES.
8. PAINT EXISTING WALL TILE - SEE SPECIFICATION.
9. WORK IS UNDER ALTERNATE BID MS-4.
10. PROVIDE AND INSTALL QUARTZ TILE FLOORING AND BASE IN LIEU OF LVT FLOORING AND RUBBER BASE UNDER ALTERNATE BID MS-1.
11. WORK IS UNDER BASE BID ONLY.



DOOR AND FRAME SCHEDULE - BLOCK A - FIRST FLOOR

DR NO	DOOR LOCATION	DOOR				FRAME					HARDWARE	RATING	SIGN TYPE	NOTES
		SIZE	TYPE	MATL	GLAZING	TYPE	MATL	DETAIL						
								HEAD	JAMB	SADDLE				
C-MDF	FUTURE M.D.F. C-MDF	3'-0" x 7'-0"	A	WD	--	HA	HM	HH10	JH10	SE	STO-01.3	--	8	SEE DOOR SCHEDULE NOTE 2, 17
C-ST1	BULK STOR. C-ST1	2 @ 4'-0" x 7'-0"	A	WD	--	HB	HM	HH10	JH10	S4	STO-02	--	8	SEE DOOR SCHEDULE NOTE 2, 17
C-ST2	SECURED I.T. STOR. C-ST2	3'-0" x 7'-0"	A	WD	--	HA	HM	HH10	JH10	S4	STO-01.3	--	8	SEE DOOR SCHEDULE NOTE 2, 17
C-ST3	I.T. STORAGE C-ST3	3'-0" x 7'-0"	A	WD	--	HA	HM	HH10	JH10	--	STO-01.4	--	8	SEE DOOR SCHEDULE NOTE 2, 17
C01-1	HELP DESK C102	5'-0" x 4'-0"	F	SS	--	--	--	HH12	JH12	S9	00A	20 MIN.	--	SEE DOOR SCHEDULE NOTE 14, 17
C100	I.T. PASS. C100	2 @ 3'-0" x 7'-0"	B	WD	FRIG-1-F	HB	HM	HH10	JH10	S4	EXD-2B	20 MIN.	8	SEE DOOR SCHEDULE NOTE 2, 17
C102A	HELP DESK C102	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH10	JH10	S1	CLA-01	--	8	SEE DOOR SCHEDULE NOTE 11, 17
C102B	HELP DESK C102	3'-0" x 7'-0"	B	WD	FRIG-1-F	HA	HM	HH10	JH10	S2	EXD-1B.1	20 MIN.	8	SEE DOOR SCHEDULE NOTE 2, 17
C102B1	FAN ROOM C102B1	3'-0" x 7'-0"	A	WD	--	HA	HM	HH10	JH10	--	STO-01	--	8	SEE DOOR SCHEDULE NOTE 19
C103	I.T. OFFICE C103	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH10	JH10	S1	OF-01.4	--	8	SEE DOOR SCHEDULE NOTE 2,11, 17
C103A	CONFERENCE ROOM C103A	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH10	JH10	S1	CLA-01	--	8	SEE DOOR SCHEDULE NOTE 11, 17
C103B	CTO OFFICE C103B	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH10	JH10	S1	OF-01.4	--	8	SEE DOOR SCHEDULE NOTE 2,11, 17
C103C	TLT. RM. C103C	3'-0" x 7'-0"	A	WD	--	HA	HM	HH11	JH11	S2	TRS-01	--	29	SEE DOOR SCHEDULE NOTE 17
C106	I.T. WORKSHOP C106	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH10	JH10	S4	OF-01	--	8	SEE DOOR SCHEDULE NOTE 11, 17
C12	TLT. RM. C12	3'-0" x 7'-0"	A	WD	--	HA	HM	HH10	JH10	S4	TRS-01	--	29	SEE DOOR SCHEDULE NOTE 17
CC-1	I.T. PASS. C100	2 @ 3'-0" x 7'-0"	B	FRP	INSUL-F	AJ	AL	HA2	JA2	S6	EXD-EXT-2D	--	3	SEE DOOR SCHEDULE NOTE 1, 2, 17
CS1.1	STAIR CS1	3'-0" x 7'-0"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	00	ETR	4	--
G-1A	IDF G-1A	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	--	STO-01	20 MIN.	8	SEE DOOR SCHEDULE NOTE 3
G01	PASS. G05	2'-11 1/2" x 7'-0"	ETR	ETR	ETR-FILM	ETR	ETR	ETR	ETR	S2	00	ETR	8	SEE DOOR SCHEDULE NOTE 2
G01B	TLT RM G01B	3'-0" x 7'-0"	A	WD	--	HA	HM	HH10	JH10	S2	TRS-01	--	29	--
G01C	TLT RM G01C	3'-0" x 7'-0"	A	WD	--	HA	HM	HH10	JH10	S2	TRS-01	--	29	--
G02	PRINCIPAL'S OFFICE G02	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH10	JH10	S1	OF-01	--	8	SEE DOOR SCHEDULE NOTE 11
G03	OFFICE G03	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH10	JH10	S1	OF-01	--	8	SEE DOOR SCHEDULE NOTE 11
G04	OFFICE G04	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH10	JH10	S1	OF-01	--	8	SEE DOOR SCHEDULE 11
G05	PASS. G05	3'-0" x 7'-0"	D	WD	FRIG-1	HA	HM	HH3	JH3	S1	OF-01.3	90 MIN.	--	SEE DOOR SCHEDULE NOTE 3
G06-1	CONFERENCE ROOM G06	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH10	JH10	S1	OF-01	--	8	SEE DOOR SCHEDULE NOTE 11
G06-2	CONFERENCE ROOM G06	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH10	JH10	S1	OF-01	--	8	SEE DOOR SCHEDULE NOTE 11
G1	CORRIDOR G1	3'-2" x 7'-0"	E	FRP	INSUL	AF	AL	HA2	JA2	S6	EXD-EXT-1D.1	--	4, 19	--
H-A-1	CORRIDOR H-A	2 @ 3'-0" x 7'-0"	E	FRP	INSUL	AE	AL	HA1	JA1	S6	EXD-EXT-2D.2	--	4, 19	--
H-A-2	CORRIDOR H-A	2 @ 4'-0" x 7'-0"	D	WD	FRIG-1	HC	HM	HH7	JH7	--	EXD-2G.2	90 MIN.	3	SEE DOOR SCHEDULE NOTE 3, 12
H-B-1	CORRIDOR H-B	2 @ 4'-0" x 7'-0"	D	WD	FRIG-1	HC	HM	HH8	JH8	--	EXD-2G	90 MIN.	3	SEE DOOR SCHEDULE NOTE 3, 12
H-C-1	CORRIDOR H-C	2 @ 3'-0" x 7'-0"	E	FRP	INSUL-F	AH	AL	HA1	JA1	S6	EXD-EXT-2D	--	1, 2, 3	SEE DOOR SCHEDULE NOTE 1, 2, 6
H01-1	MAIN OFFICE H01	3'-0" x 7'-0"	B	WD	TPG-F	HF	HM	HH2 / HH2A	JH2 / JH2A	S2	OF-01.1	--	8	SEE DOOR SCHEDULE NOTE 3, 6, 11
H01-2	MAIN OFFICE H01	3'-0" x 7'-0"	B	WD	TPG-F	HD1	HM	HH2 / HH2A	JH2 / JH2A	S2 / S5A	OF-01.2	--	8	SEE DOOR SCHEDULE NOTE 2, 3, 6, 10, 11
H02	OFFICE H02	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH1	JH1	S1	OF-01	--	8	SEE DOOR SCHEDULE NOTE 11
H03	OFFICE H03	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH1	JH1	S1	OF-01	--	8	SEE DOOR SCHEDULE NOTE 11
H04-1	SECURITY H04	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	S1	OF-01.3	--	8	SEE DOOR SCHEDULE NOTE 3, 11
H04-2	SECURITY H04	5'-0" x 3'-10"	--	--	TPG	HG	HM	HH2A	JH2A	--	00B	--	--	SEE DOOR SCHEDULE NOTE 5
H04-3	SECURITY H04	4'-8" x 4'-2"	--	--	BRG	HG	HM	HH13	JH13	S10	00A	--	--	SEE DOOR SCHEDULE NOTE 7
H05-1	SECURE VESTIBULE H05	3'-0" x 7'-0"	E	FRP	INSUL-F	AC	AL	HA1	JA1	S6	EXD-EXT-1B	--	32	SEE DOOR SCHEDULE NOTE 1, 6, 9, 13
H05-2	SECURE VESTIBULE H05	3'-0" x 7'-0"	B	WD	TPG-F	HH	HM	HH2 / HH2A	JH2 / JH2A	S4	EXD-1B.2	--	--	SEE DOOR SCHEDULE NOTE 6, 10, 11, 13
H06-1	LOBBY H06	2 @ 3'-0" x 7'-0"	E	FRP	INSUL-F	AD	AL	HA1	JA1	S6	EXD-EXT-2B	--	1, 2, 3, 33	SEE DOOR SCHEDULE NOTE 1, 2, 6, 13
H06-2	LOBBY H06	2 @ 3'-0" x 7'-0"	B	WD	TPG-F	HE	HM	HH2	JH2	--	EXD-2B.1	--	3	SEE DOOR SCHEDULE NOTE 2, 6, 11, 13
H07	CLASSROOM H07	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	--	CRS-03.1	--	10	SEE DOOR SCHEDULE NOTE 11
H08	CLASSROOM H08	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	--	CRS-03.1	--	10	SEE DOOR SCHEDULE NOTE 11
H09A	CLASSROOM H09A	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	--	CRS-03.1	--	10	SEE DOOR SCHEDULE NOTE 11
H09B	CLASSROOM H09B	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	--	CRS-03.1	--	10	SEE DOOR SCHEDULE NOTE 11
H10	MECH./ELECT. H10	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	S4	STO-01	--	8	--
H10A	JAN. H10A	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	S4	STO-01	--	8	--
H11A	WOMENS TLT. RM. H11A	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	S4	TRM-02	--	12	--
H11B	MENS TLT. RM. H11B	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	S4	TRM-02	--	11	--
H11C	STOR. H11C	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	--	STO-01	--	8	--
H11D	IDF H11D	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	--	STO-01	--	8	--
H12	CLASSROOM H12	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	--	CRS-03.1	--	10	SEE DOOR SCHEDULE NOTE 11
H13	CLASSROOM H13	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	--	CRS-03.1	--	10	SEE DOOR SCHEDULE NOTE 11
H14	CLASSROOM H14	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	--	CRS-03.1	--	10	SEE DOOR SCHEDULE NOTE 11
HS1-1	STAIR HS1	3'-6" x 7'-0"	C	WD	FRIG-1	HA	HM	HH2	JH2	S3	EXD-1D	60 MIN.	3	SEE DOOR SCHEDULE NOTE 8
HS1-2	STAIR HS1	2 @ 3'-0" x 7'-2"	B	FRP	INSUL-F	AB	AL	HA1	JA1	S6	EXD-EXT-2D.1	--	6	SEE DOOR SCHEDULE NOTE 1
HS2-1	STAIR HS2	3'-6" x 7'-0"	C	WD	FRIG-1	HA	HM	HH2	JH2	S3	EXD-1D	60 MIN.	3	SEE DOOR SCHEDULE NOTE 8
HS2-2	STAIR HS2	3'-4" x 7'-0"	B	FRP	INSUL-F	AG	AL	HA1	JA1	S6	EXD-EXT-1D	--	6	SEE DOOR SCHEDULE NOTE 1

DOOR AND FRAME SCHEDULE - BLOCK B

DR NO	DOOR LOCATION	DOOR				FRAME					HARDWARE	RATING	SIGN TYPE	NOTES
		SIZE	TYPE	MATL	GLAZING	TYPE	MATL	DETAIL						
								HEAD	JAMB	SADDLE				
A101	ORCHESTRA ROOM A101	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH11	JH11	--	EXD-1D.1	--	8	SEE DOOR SCHEDULE NOTE 11
A101A	PRACT. A101A	3'-0" x 7'-0"	B	WD	TPG	HD3	HM	HH11	JH11	S2	CRS-05.1	--	8	SEE DOOR SCHEDULE NOTE 6
A102	BAND ROOM A102	2 @ 3'-0" x 7'-0"	B	WD	TPG-F	HB	HM	HH10	JH10	S2	EXD-2F.4	--	8	SEE DOOR SCHEDULE NOTE 11
A102A	PRACT. A102A	3'-0" x 7'-0"	B	WD	TPG	HD4	HM	HH10	JH10	S1	CRS-05	--	8	SEE DOOR SCHEDULE NOTE 6
A103-1	CHOIR ROOM A103	2 @ 3'-0" x 7'-0"	B	WD	TPG-F	HB	HM	HH10	JH10	--	EXD-2F.4	--	8	SEE DOOR SCHEDULE NOTE 11
G-1A	IDF G-1A	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	--	STO-01	20 MIN.	8	SEE DOOR SCHEDULE NOTE 3
G-2-1	LOBBY G-2	2 @ 3'-0" x 7'-0"	E	FRP	INSUL-F	AL	AL	--	--	S6	EXD-EXT-2D	--	1, 2, 3	SEE DOOR SCHEDULE NOTE 1, 2
G-2-2	LOBBY G-2	2 @ 3'-0" x 7'-0"	E	FRP	INSUL-F	AL	AL	--	--	S6	EXD-EXT-2G	--	3	--
G-2-3	LOBBY G-2	2 @ 3'-0" x 7'-0"	E	FRP	INSUL-F	AL	AL	--	--	S6	EXD-EXT-2D	--	3	--
G-2-4	LOBBY G-2	2 @ 3'-6" x 7'-0"	D	WD	FRIG-1	HB	HM	HH5	JH5	--	EXD-2G.1	90 MIN.	3	SEE DOOR SCHEDULE NOTE 3
G108-1	CAFETERIA G108	3'-0" x 7'-0"	B	WD	FRIG-1-F	HA	HM	HH2	JH2	--	EXD-1D.2	20 MIN.	8	SEE DOOR SCHEDULE NOTE 11
G108-2	CAFETERIA G108	3'-0" x 7'-0"	B	WD	FRIG-1-F	HA	HM	HH11	JH11	S4	EXD-1D.1	20 MIN.	8	SEE DOOR SCHEDULE NOTE 11
G108-3	CAFETERIA G108	2 @ 3'-0" x 7'-0"	B	WD	FRIG-1-F	HB	HM	HH11	JH11	S4	EXD-2F.1	20 MIN.	8	SEE DOOR SCHEDULE NOTE 11
G108A-1	NEW CAFETERIA G108A	2 @ 3'-0" x 7'-0"	B	WD	TPG-F	HB	HM	HH2	JH2	--	EXD-2F.2	--	8	SEE DOOR SCHEDULE NOTE 11
G108A-2	NEW CAFETERIA G108A	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	--	EXD-1D.2	--	8	SEE DOOR SCHEDULE NOTE 11
G108A-3	NEW CAFETERIA G108A	2 @ 4'-0" x 7'-0"	D	WD	FRIG-1	HB	HM	HH5	JH5	--	EXD-2F.3	90 MIN.	--	SEE DOOR SCHEDULE NOTE 3
G108A-4	NEW CAFETERIA G108A	4'-0" x 7'-0"	D	WD	FRIG-1	HA	HM	HH5	JH5	--	EXD-1E	90 MIN.	--	SEE DOOR SCHEDULE NOTE 3
G108A-5	NEW CAFETERIA G108A	2 @ 3'-0" x 7'-0"	B	FRP	INSUL-F	AK	AL	--	--	S6	EXD-EXT-2F	--	3	SEE DOOR SCHEDULE NOTE 1
G108A-6	NEW CAFETERIA G108A	17'-0" x 8'-0"	G	AL	--	--	AL	GH1	GJ1	--	BY MANUF.	--	--	SEE DOOR SCHEDULE NOTE 18
G108B-1	MULTI-PURPOSE ROOM G108B	2 @ 3'-6" x 7'-0"	B	WD	TPG-F	HB	HM	HH3	JH3	S7	EXD-2F	--	8	SEE DOOR SCHEDULE NOTE 11
G108B-2	MULTI-PURPOSE ROOM G108B	3'-0" x 7'-2"	B	FRP	INSUL-F	AA	AL	HA1	JA1	S8	EXD-EXT-1F	--	3	SEE DOOR SCHEDULE NOTE 1
G108B-3	MULTI-PURPOSE ROOM G108B	3'-0" x 7'-2"	B	FRP	INSUL-F	AA	AL	HA1	JA1	S8	EXD-EXT-1F	--	3	SEE DOOR SCHEDULE NOTE 1
G108C	JAN. G108C	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	S4	STO-01	--	8	
G108D	MECH./ELECT. G108D	2 @ 3'-0" x 7'-0"	A	WD	--	HB	HM	HH3	JH3	S7	STO-02.1	--	8	--
G108E	WOMENS TLT RM G108E	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	S4	TRM-02	--	12	
G108F	MENS TLT RM G108F	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	S4	TRM-02	--	11	
G108G	STORAGE G108G	2 @ 3'-0" x 7'-0"	A	WD	--	HB	HM	HH3	JH3	S7	STO-02.1	--	8	
G33A	FACULTY DINING G34A	3'-0" x 7'-0"	B	WD	FRIG-1-F	HA	HM	--	--	--	CRS-03	20 MIN.	8	--

DOOR AND FRAME SCHEDULE - BLOCK A - SECOND FLOOR

DR NO	DOOR LOCATION	DOOR				FRAME					HARDWARE	RATING	SIGN TYPE	NOTES
		SIZE	TYPE	MATL	GLAZING	TYPE	MATL	DETAIL						
								HEAD	JAMB	SADDLE				
C2	CORR. C1	5'-11 1/4" x 8'-0"	--	--	FRIG-1	HJ	HM	HH14	JH14	HH14	--	--	--	SEE DOOR SCHEDULE NOTE 5, 16, 17
C202A	FAN ROOM C102B1	3'-0" x 7'-0"	A	WD	--	HA	HM	HH10	JH10	–	STO-01	--	8	–
CS1.2	STAIR CS1	3'-0" x 7'-0"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	00	ETR	4	–
H21	SCIENCE CLASSROOM H21	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	–	CRS-03.1	--	10	SEE DOOR SCHEDULE NOTE 11
H22	SCIENCE CLASSROOM H22	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	–	CRS-03.1	--	10	SEE DOOR SCHEDULE NOTE 11
H23	STOR. / ROOF ACCESS H23	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	S4	STO-01.2	--	8	–
H24	CLASSROOM H24	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	–	CRS-03.1	--	10	SEE DOOR SCHEDULE NOTE 11
H25	CLASSROOM H25	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	–	CRS-03.1	--	10	SEE DOOR SCHEDULE NOTE 11
H26A	CLASSROOM H26A	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	–	CRS-03.1	--	10	SEE DOOR SCHEDULE NOTE 11
H26B	CLASSROOM H26B	3'-0" x 7'-0"	B	WD	TPG-F	HA	HM	HH2	JH2	–	CRS-03.1	--	10	SEE DOOR SCHEDULE NOTE 11
H27	MECH. / ELECT. H27	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	S4	STO-01	--	8	–
H27A	JAN. H27A	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	S4	STO-01	--	8	–
H28A	WOMEN'S TLT. RM. H28A	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	S4	TRM-02	--	12	–
H28B	MEN'S TLT. RM. H28B	3'-0" x 7'-0"	A	WD	--	HA	HM	HH2	JH2	S4	TRM-02	--	11	–
H28C	STORAGE H28C	2 @ 3'-0" x 7'-0"	A	WD	--	HB	HM	HH2	JH2	–	STO-02.2	--	8	–
HC-1	CORRIDOR HC-1	2 @ 4'-0" x 7'-0"	D	WD	FRIG-1	HC	HM	HH8	JH8	–	EXD-2G	90 MIN.	3	SEE DOOR SCHEDULE NOTE 3, 12
HS1-3	STAIR HS1	3'-6" x 7'-0"	C	WD	FRIG-1	HA	HM	HH2	JH2	S3	EXD-1D	60 MIN.	5, 27	SEE DOOR SCHEDULE NOTE 8, 15
HS2-3	STAIR HS2	3'-6" x 7'-0"	C	WD	FRIG-1	HA	HM	HH2	JH2	S3	EXD-1D	60 MIN.	5, 27	SEE DOOR SCHEDULE NOTE 8, 15
ST1-1	SCIENCE PREP. ST1	3'-0" x 7'-0"	B	WD	TPG	HD2	HM	HH1 / HH1A	JH1 / JH1A	– / S5	STO-01.2	--	8	SEE DOOR SCHEDULE NOTE 6
ST1-2	SCIENCE PREP. ST1	3'-0" x 7'-0"	B	WD	TPG	HD1	HM	HH1 / HH1A	JH1 / JH1A	– / S5	STO-01.2	--	8	SEE DOOR SCHEDULE NOTE 6

GENERAL DOOR NOTES:

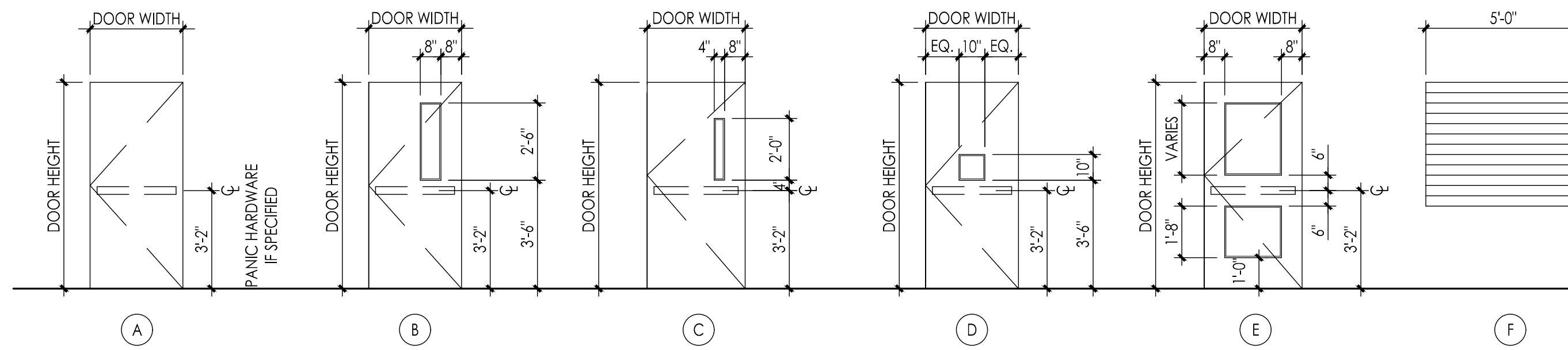
A. ALL DOORS ARE 1 3/4" THICK UNLESS OTHERWISE NOTED.
B. ALL DOORS ARE SCLC CORES UNLESS OTHERWISE NOTED.
C. SEE DOOR TYPES AND FRAME TYPES ON THIS DRAWING.
D. SEE SIGNAGE TYPES ON THIS DRAWING.
E. SEE HEAD, JAMB AND SADDLE DETAILS ON DRAWING A603.
F. COORDINATE ALL ACCESS CONTROL PREP AND WIRING WITH ELECTRICAL CONTRACTOR AND OWNER'S SECURITY VENDOR (TYP.)

ABBREVIATIONS

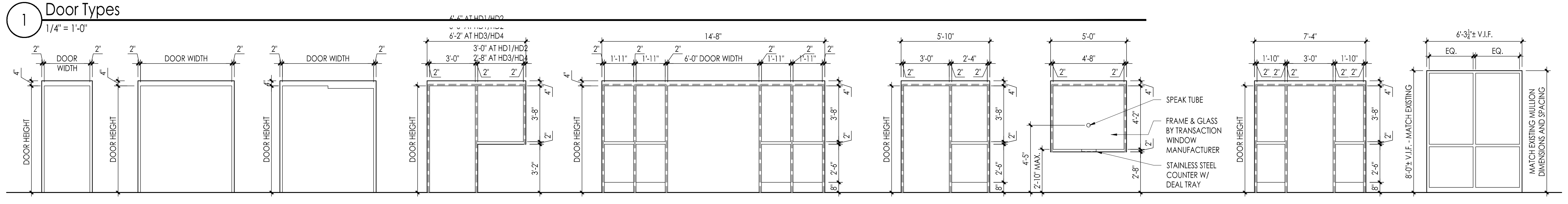
AL	- ALUMINUM
BRG	- BULLET-RESISTANT GLAZING
FRIG-1	- FIRE-RATED IMPACT GLAZING W/ PRE-APPLIED SECURITY FILM
FRP	- FIBERGLASS REINFORCED POLYESTER
HM	- HOLLOW METAL
INSUL	- INSULATED TINTED TEMPERED GLAZING
INSUL-F	- INSULATED TINTED TEMPERED GLAZING WITH SECURITY FILM
TPG	- TEMPERED PLATE GLASS
TPG-F	- TEMPERED PLATE GLASS WITH PRE-APPLIED SECURITY FILM
WD	- WOOD

DOOR SCHEDULE NOTES:

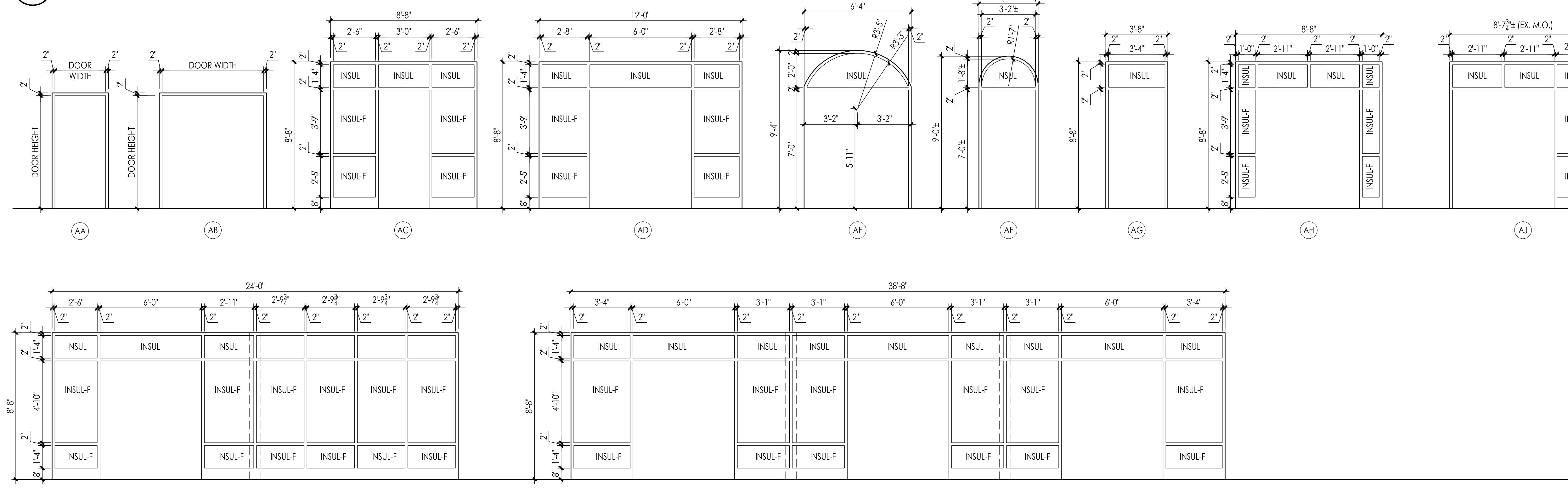
1. ALL EXTERIOR DOORS ARE TO RECEIVE SIGNAGE PER DISTRICT NUMBERING SEQUENCE.
2. PROXIMITY READER BY OWNER'S SECURITY VENDOR - SEE GENERAL DOOR NOTE F AND ELECTRICAL DRAWINGS.
3. ELECTRO-MAGNETICALLY HELD OPEN - SEE SPECIFICATION AND ELECTRICAL DRAWINGS.
4. DOOR SIZE (WIDTH AND HEIGHT) TO MATCH EXISTING.
5. BORROWED LIGHT.
6. DOOR WITH SIDELIGHT AND / OR TRANSOM - SEE FRAME TYPES.
7. SECURITY TRANSACTION WINDOW - SEE SPECIFICATION.
8. DOOR RATED FOR STAIR TOWER CONSTRUCTION.
9. INTERCOM SYSTEM AND PUSH BUTTON RELEASE CONTROLLED FROM SECURITY OFFICE; BY OWNERS - SECURITY VENDOR, SEE GENERAL DOOR NOTE 'F'.
10. PUSH BUTTON RELEASE CONTROLLED FROM SECURITY OFFICE; BY OWNERS - SECURITY VENDOR, SEE GENERAL DOOR NOTE 'F'.
11. PRE-APPLIED SECURITY WINDOW FILM ON GLASS.
12. INSTALL (1) SIGN TYPE '3' AT BOTH SIDES OF DOOR
13. AUTOMATIC DOOR OPENER
14. FIRE-RATED COUNTER SHUTTER
15. SEE ELECTRICAL DRAWINGS FOR REQUIRED "AREA OF REFUGE" ILLUMINATED SIGN.
16. FRAME HEIGHT AND HORIZONTAL MULLION SPACING TO MATCH EXISTING.
17. WORK IS UNDER ALTERNATE BID MS-4.
18. OVERHEAD ROLLING GRILLE - SEE DETAILS ON A602.
19. WORK IS UNDER BASE BID ONLY.



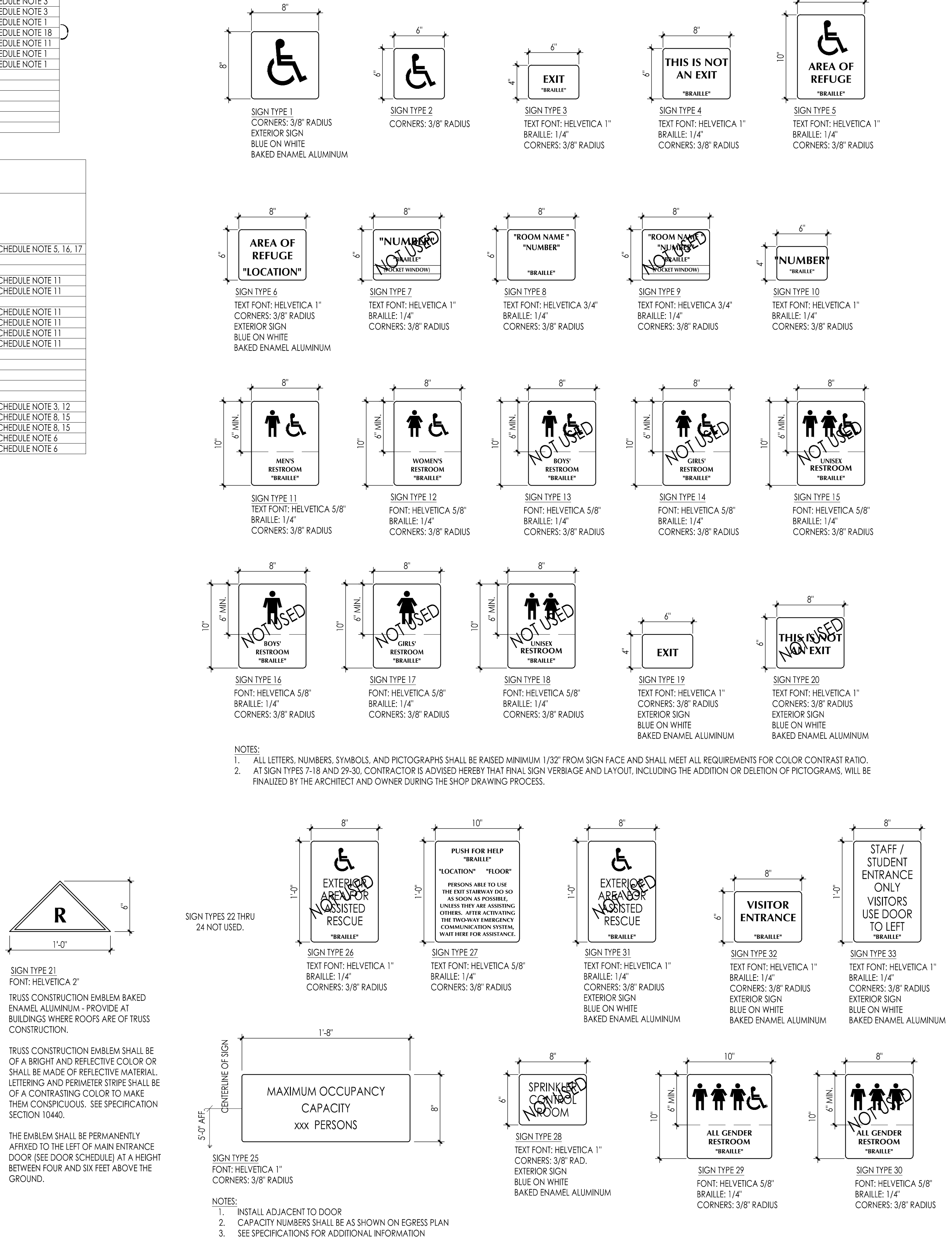
1 Door Types
1/4" = 1'-0"


DOOR WIDTH
DOOR HEIGHT
14'-8"
5'-10"
5'-0"
7'-4"
6'-3 1/4" ± V.I.F.
EQ.
SPEAK TUBE
FRAME & GLASS BY TRANSACTION WINDOW MANUFACTURER
STAINLESS STEEL COUNTER W/ DEAL TRAY
MATCH EXISTING MULLION DIMENSIONS AND SPACING
HA
HB
HC
HD1
HD2
HD3
HD4
OPP.
HE
HF
HG
HH
HJ

2 Hollow Metal Frame Types
1/4" = 1'-0"



3 Aluminum Frame Types
1/4" = 1'-0"


EXIT
"BRAILLE"
THIS IS NOT AN EXIT
AREA OF REFUGE
AREA OF REFUGE "LOCATION"
"NUMBER"
(POCKET WINDOW)
"ROOM NAME" "NUMBER"
NOT USED
MEN'S RESTROOM
WOMEN'S RESTROOM
BOYS' RESTROOM
GIRLS' RESTROOM
UNISEX RESTROOM
R
EXTERIOR AREA FOR ASSISTED RESCUE
PUSH FOR HELP
"LOCATION" "FLOOR"
PERSONS ABLE TO USE THE EXIT STAIRWAY DO SO AS SOON AS POSSIBLE, UNLESS THEY ARE ASSISTING OTHERS. AFTER ACTIVATING THE TWO-WAY EMERGENCY COMMUNICATION SYSTEM, WAIT HERE FOR ASSISTANCE.
VISITOR ENTRANCE
STAFF / STUDENT ENTRANCE ONLY VISITORS USE DOOR TO LEFT
MAXIMUM OCCUPANCY CAPACITY xxx PERSONS
CENTERLINE OF SIGN
5'-0" AFF.
SPRINKLER CONTROL ROOM
ALL GENDER RESTROOM
8"
6"
4"
10"
1'-0"
1'-8"
6" MIN.

SIGN TYPE 1
CORNERS: 3/8" RADIUS
EXTERIOR SIGN
BLUE ON WHITE
BAKED ENAMEL ALUMINUM

SIGN TYPE 2
CORNERS: 3/8" RADIUS

SIGN TYPE 3
TEXT FONT: HELVETICA 1"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 4
TEXT FONT: HELVETICA 1"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 5
TEXT FONT: HELVETICA 1"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 6
TEXT FONT: HELVETICA 1"
CORNERS: 3/8" RADIUS
EXTERIOR SIGN
BLUE ON WHITE
BAKED ENAMEL ALUMINUM

SIGN TYPE 7
TEXT FONT: HELVETICA 1"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 8
TEXT FONT: HELVETICA 3/4"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 9
TEXT FONT: HELVETICA 3/4"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 10
TEXT FONT: HELVETICA 1"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 11
TEXT FONT: HELVETICA 5/8"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 12
FONT: HELVETICA 5/8"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 13
FONT: HELVETICA 5/8"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 14
FONT: HELVETICA 5/8"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 15
FONT: HELVETICA 5/8"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 16
FONT: HELVETICA 5/8"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 17
FONT: HELVETICA 5/8"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 18
FONT: HELVETICA 5/8"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 19
TEXT FONT: HELVETICA 1"
CORNERS: 3/8" RADIUS
EXTERIOR SIGN
BLUE ON WHITE
BAKED ENAMEL ALUMINUM

SIGN TYPE 20
TEXT FONT: HELVETICA 1"
CORNERS: 3/8" RADIUS
EXTERIOR SIGN
BLUE ON WHITE
BAKED ENAMEL ALUMINUM

NOTES:
1. ALL LETTERS, NUMBERS, SYMBOLS, AND PICTOGRAPHS SHALL BE RAISED MINIMUM 1/32" FROM SIGN FACE AND SHALL MEET ALL REQUIREMENTS FOR COLOR CONTRAST RATIO.
2. AT SIGN TYPES 7-18 AND 29-30, CONTRACTOR IS ADVISED HEREBY THAT FINAL SIGN VERBIAGE AND LAYOUT, INCLUDING THE ADDITION OR DELETION OF PICTOGRAMS, WILL BE FINALIZED BY THE ARCHITECT AND OWNER DURING THE SHOP DRAWING PROCESS.

SIGN TYPE 21
FONT: HELVETICA 2"

TRUSS CONSTRUCTION EMBLEM BAKED ENAMEL ALUMINUM - PROVIDE AT BUILDINGS WHERE ROOFS ARE OF TRUSS CONSTRUCTION.

TRUSS CONSTRUCTION EMBLEM SHALL BE OF A BRIGHT AND REFLECTIVE COLOR OR SHALL BE MADE OF REFLECTIVE MATERIAL. LETTERING AND PERIMETER STRIPE SHALL BE OF A CONTRASTING COLOR TO MAKE THEM CONSPICUOUS. SEE SPECIFICATION SECTION 10440.

THE EMBLEM SHALL BE PERMANENTLY AFFIXED TO THE LEFT OF MAIN ENTRANCE DOOR (SEE DOOR SCHEDULE) AT A HEIGHT BETWEEN FOUR AND SIX FEET ABOVE THE GROUND.

SIGN TYPES 22 THRU 24 NOT USED.

SIGN TYPE 25
FONT: HELVETICA 1"
CORNERS: 3/8" RADIUS

NOTES:
1. INSTALL ADJACENT TO DOOR
2. CAPACITY NUMBERS SHALL BE AS SHOWN ON EGRESS PLAN
3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

SIGN TYPE 26
TEXT FONT: HELVETICA 1"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 27
TEXT FONT: HELVETICA 5/8"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 28
TEXT FONT: HELVETICA 1"
CORNERS: 3/8" RAD.
EXTERIOR SIGN
BLUE ON WHITE
BAKED ENAMEL ALUMINUM

SIGN TYPE 29
FONT: HELVETICA 5/8"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 30
FONT: HELVETICA 5/8"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 31
TEXT FONT: HELVETICA 1"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS
EXTERIOR SIGN
BLUE ON WHITE
BAKED ENAMEL ALUMINUM

SIGN TYPE 32
TEXT FONT: HELVETICA 1"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS
EXTERIOR SIGN
BLUE ON WHITE
BAKED ENAMEL ALUMINUM

SIGN TYPE 33
TEXT FONT: HELVETICA 1"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS
EXTERIOR SIGN
BLUE ON WHITE
BAKED ENAMEL ALUMINUM

4 Signage Types
1/4" = 1'-0"

NJDCA Electronic Release Stamp

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ - 21AI01706000 | PA - RA012520X
GEORGE R. DUTHIE JR., AIA, PP
NJ - 21AI01299200
JASON J. DUBOWITCH, AIA
NJ - 21AI01979800 | PA - RA406009
STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

Architect
10/10/25
Date

FVHD architects planners
Fraytak Veisz Hopkins Duthie PC

Corporate: 1515 Lower Ferry Road
Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Avenue
Mont Clare - Pennsylvania 19453
F V H D P C . C O M

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

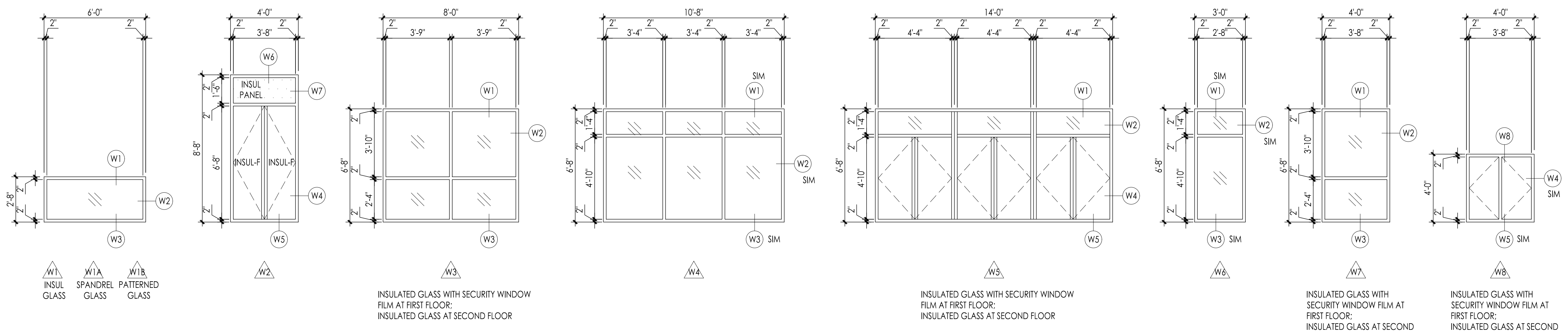
Project Number	5516B
Project Date	10.10.2025
Checked By	GRD
Drawn By	NEH
Scale	AS NOTED

Drawing Name
Room Finish and Door Schedules, Details and Notes

Revisions

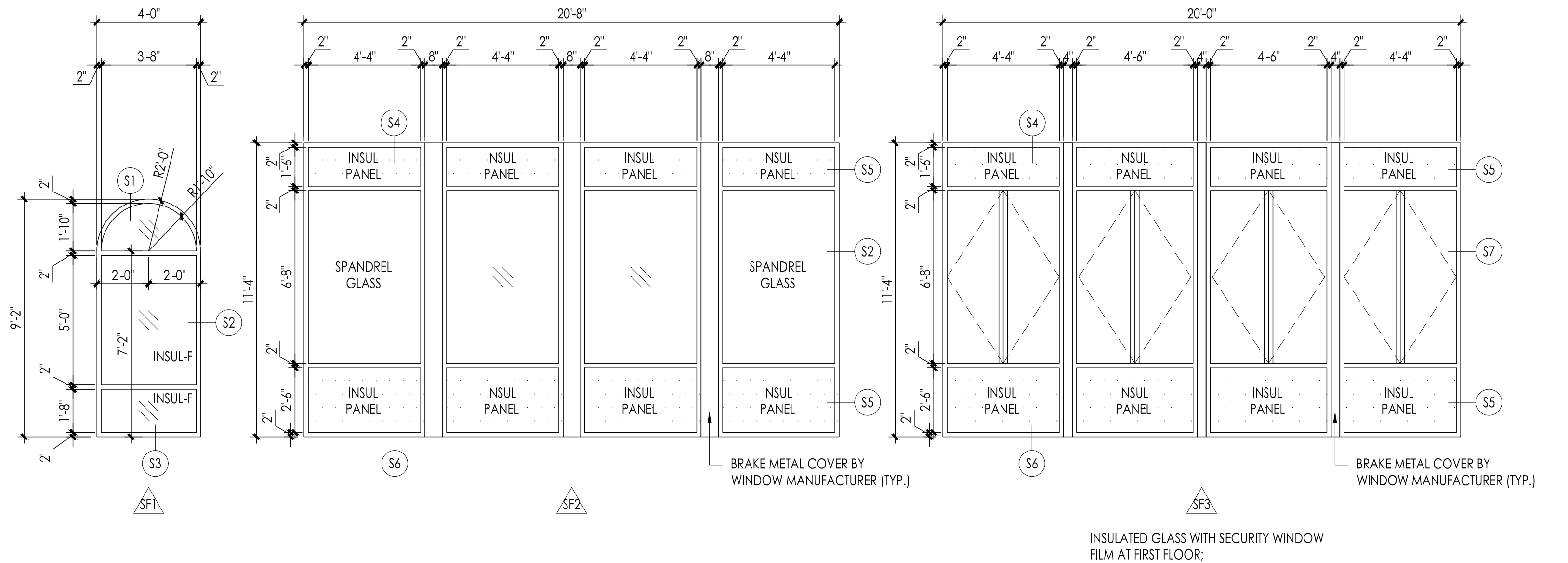
No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
	12.15.25	NJ DCA RESPONSES
1	1.14.26	ADDENDUM 1

Drawing Number
A601


6'-0"
2"
2'-8"
W1
W2
W3
W1 INSUL GLASS
W1A SPANDREL GLASS
W1B PATTERNED GLASS
4'-0"
3'-8"
8'-8"
6'-8"
1'-6"
W6
INSUL PANEL
W7
INSUL-F
W4
W5
W2
8'-0"
3'-9"
3'-10"
2'-4"
W3
INSULATED GLASS WITH SECURITY WINDOW FILM AT FIRST FLOOR; INSULATED GLASS AT SECOND FLOOR
10'-8"
3'-4"
1'-4"
4'-10"
SIM
W4
14'-0"
4'-4"
W5
INSULATED GLASS WITH SECURITY WINDOW FILM AT FIRST FLOOR; INSULATED GLASS AT SECOND FLOOR
3'-0"
2'-8"
W6
W7
INSULATED GLASS WITH SECURITY WINDOW FILM AT FIRST FLOOR; INSULATED GLASS AT SECOND FLOOR
4'-0"
W8
W8
INSULATED GLASS WITH SECURITY WINDOW FILM AT FIRST FLOOR; INSULATED GLASS AT SECOND FLOOR

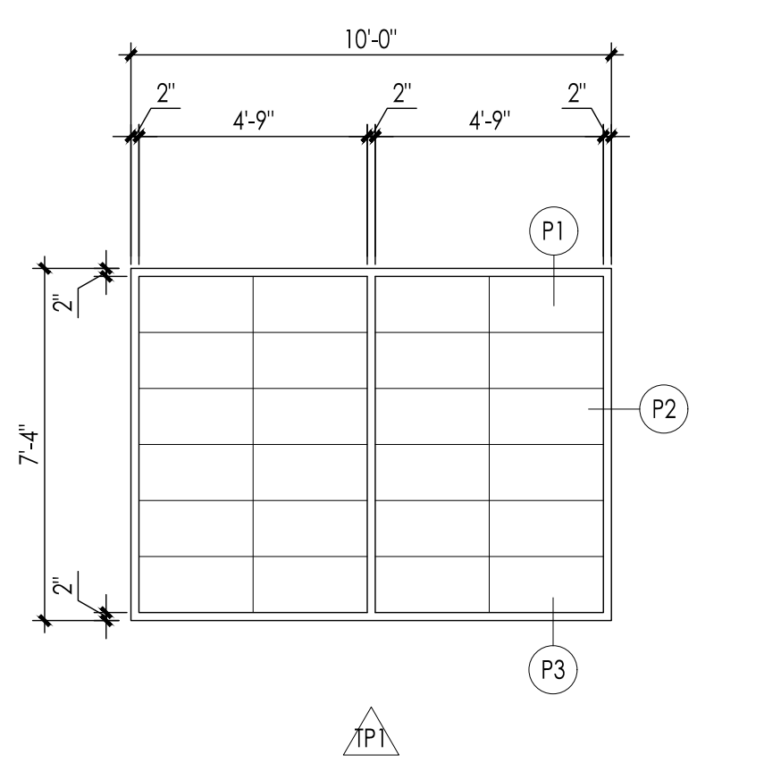
Window Types

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



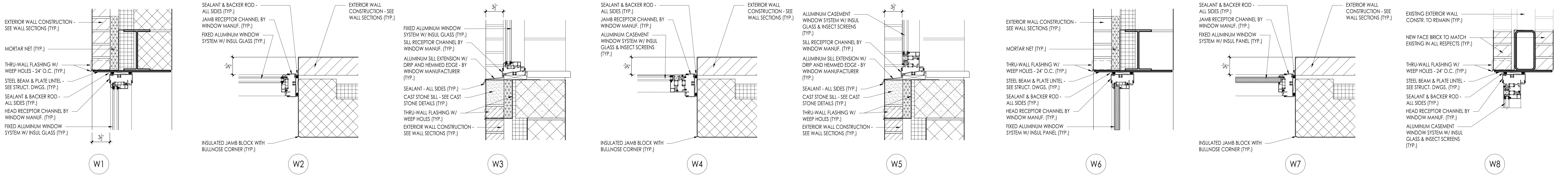
Storefront Types

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



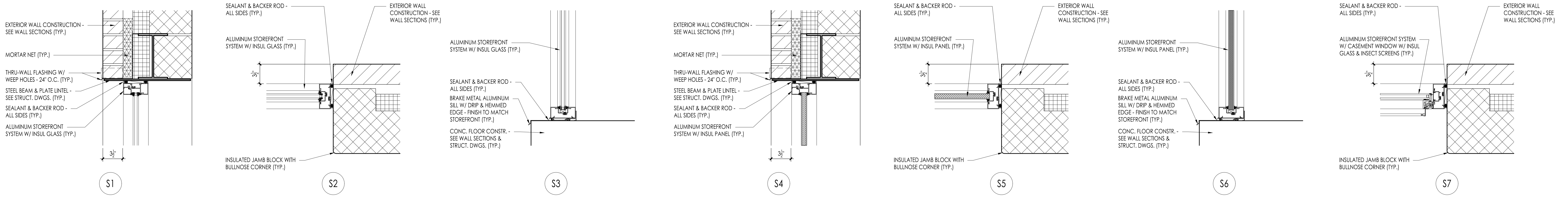
Insulated Translucent Fiberglass Sandwich Panel Types

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


W1
EXTERIOR WALL CONSTRUCTION - SEE WALL SECTIONS (TYP.)
MORTAR NET (TYP.)
THRU-WALL FLASHING W/ WEEP HOLES - 24" O.C. (TYP.)
STEEL BEAM & PLATE LINTEL - SEE STRUCT. DWGS. (TYP.)
SEALANT & BACKER ROD - ALL SIDES (TYP.)
HEAD RECEPTOR CHANNEL BY WINDOW MANUF. (TYP.)
FIXED ALUMINUM WINDOW SYSTEM W/ INSUL GLASS (TYP.)
3½"
W2
SEALANT & BACKER ROD - ALL SIDES (TYP.)
JAMB RECEPTOR CHANNEL BY WINDOW MANUF. (TYP.)
FIXED ALUMINUM WINDOW SYSTEM W/ INSUL GLASS (TYP.)
EXTERIOR WALL CONSTRUCTION - SEE WALL SECTIONS (TYP.)
INSULATED JAMB BLOCK WITH BULLNOSE CORNER (TYP.)
W3
FIXED ALUMINUM WINDOW SYSTEM W/ INSUL GLASS (TYP.)
SILL RECEPTOR CHANNEL BY WINDOW MANUF. (TYP.)
ALUMINUM SILL EXTENSION W/ DRIP AND HEMMED EDGE - BY WINDOW MANUFACTURER (TYP.)
SEALANT - ALL SIDES (TYP.)
CAST STONE SILL - SEE CAST STONE DETAILS (TYP.)
THRU-WALL FLASHING W/ WEEP HOLES (TYP.)
EXTERIOR WALL CONSTRUCTION - SEE WALL SECTIONS (TYP.)
W4
SEALANT & BACKER ROD - ALL SIDES (TYP.)
JAMB RECEPTOR CHANNEL BY WINDOW MANUF. (TYP.)
ALUMINUM CASEMENT WINDOW SYSTEM W/ INSUL GLASS & INSECT SCREENS (TYP.)
EXTERIOR WALL CONSTRUCTION - SEE WALL SECTIONS (TYP.)
INSULATED JAMB BLOCK WITH BULLNOSE CORNER (TYP.)
W5
ALUMINUM CASEMENT WINDOW SYSTEM W/ INSUL GLASS & INSECT SCREENS (TYP.)
SILL RECEPTOR CHANNEL BY WINDOW MANUF. (TYP.)
ALUMINUM SILL EXTENSION W/ DRIP AND HEMMED EDGE - BY WINDOW MANUFACTURER (TYP.)
SEALANT - ALL SIDES (TYP.)
CAST STONE SILL - SEE CAST STONE DETAILS (TYP.)
THRU-WALL FLASHING W/ WEEP HOLES (TYP.)
EXTERIOR WALL CONSTRUCTION - SEE WALL SECTIONS (TYP.)
W6
EXTERIOR WALL CONSTRUCTION - SEE WALL SECTIONS (TYP.)
MORTAR NET (TYP.)
THRU-WALL FLASHING W/ WEEP HOLES - 24" O.C. (TYP.)
STEEL BEAM & PLATE LINTEL - SEE STRUCT. DWGS. (TYP.)
SEALANT & BACKER ROD - ALL SIDES (TYP.)
HEAD RECEPTOR CHANNEL BY WINDOW MANUF. (TYP.)
FIXED ALUMINUM WINDOW SYSTEM W/ INSUL PANEL (TYP.)
W7
SEALANT & BACKER ROD - ALL SIDES (TYP.)
JAMB RECEPTOR CHANNEL BY WINDOW MANUF. (TYP.)
FIXED ALUMINUM WINDOW SYSTEM W/ INSUL PANEL (TYP.)
EXTERIOR WALL CONSTRUCTION - SEE WALL SECTIONS (TYP.)
INSULATED JAMB BLOCK WITH BULLNOSE CORNER (TYP.)
W8
EXISTING EXTERIOR WALL CONSTR. TO REMAIN (TYP.)
NEW FACE BRICK TO MATCH EXISTING IN ALL RESPECTS (TYP.)
THRU-WALL FLASHING W/ WEEP HOLES - 24" O.C. (TYP.)
STEEL BEAM & PLATE LINTEL - SEE STRUCT. DWGS. (TYP.)
SEALANT & BACKER ROD - ALL SIDES (TYP.)
HEAD RECEPTOR CHANNEL BY WINDOW MANUF. (TYP.)
ALUMINUM CASEMENT WINDOW SYSTEM W/ INSUL GLASS & INSECT SCREENS (TYP.)

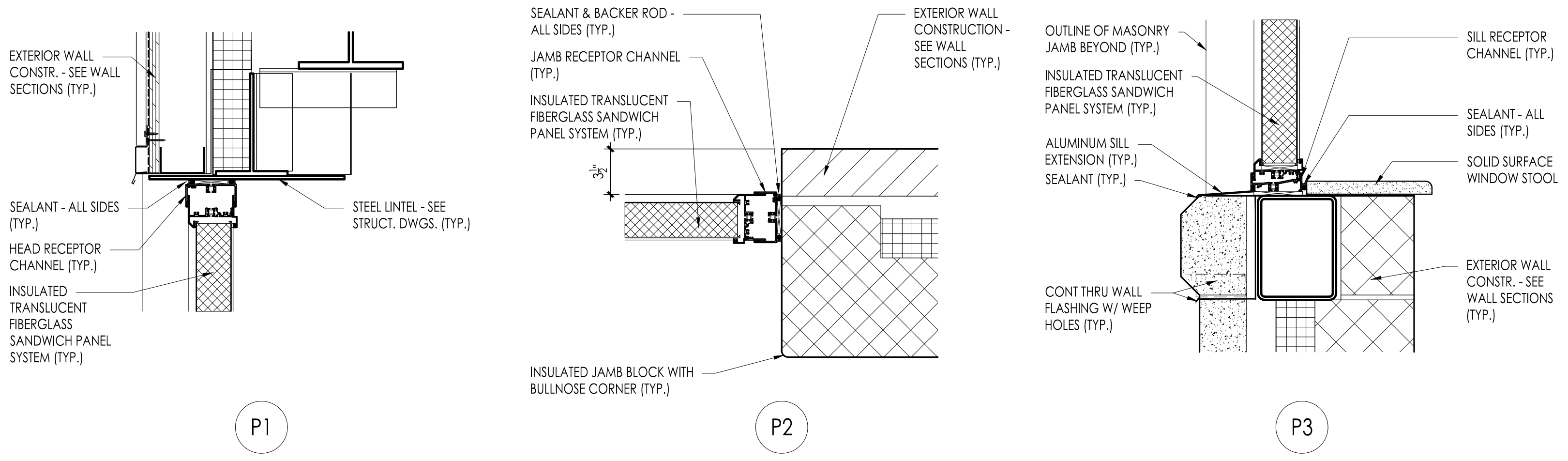
Window Details

Scale: 1-1/2" 1'-0"


S1
EXTERIOR WALL CONSTRUCTION - SEE WALL SECTIONS (TYP.)
MORTAR NET (TYP.)
THRU-WALL FLASHING W/ WEEP HOLES - 24" O.C. (TYP.)
STEEL BEAM & PLATE LINTEL - SEE STRUCT. DWGS. (TYP.)
SEALANT & BACKER ROD - ALL SIDES (TYP.)
ALUMINUM STOREFRONT SYSTEM W/ INSUL GLASS (TYP.)
3½"
S2
SEALANT & BACKER ROD - ALL SIDES (TYP.)
ALUMINUM STOREFRONT SYSTEM W/ INSUL GLASS (TYP.)
EXTERIOR WALL CONSTRUCTION - SEE WALL SECTIONS (TYP.)
INSULATED JAMB BLOCK WITH BULLNOSE CORNER (TYP.)
S3
ALUMINUM STOREFRONT SYSTEM W/ INSUL GLASS (TYP.)
SEALANT & BACKER ROD - ALL SIDES (TYP.)
BRAKE METAL ALUMINUM SILL W/ DRIP & HEMMED EDGE - FINISH TO MATCH STOREFRONT (TYP.)
CONC. FLOOR CONSTR. - SEE WALL SECTIONS & STRUCT. DWGS. (TYP.)
S4
EXTERIOR WALL CONSTRUCTION - SEE WALL SECTIONS (TYP.)
MORTAR NET (TYP.)
THRU-WALL FLASHING W/ WEEP HOLES - 24" O.C. (TYP.)
STEEL BEAM & PLATE LINTEL - SEE STRUCT. DWGS. (TYP.)
SEALANT & BACKER ROD - ALL SIDES (TYP.)
ALUMINUM STOREFRONT SYSTEM W/ INSUL PANEL (TYP.)
S5
SEALANT & BACKER ROD - ALL SIDES (TYP.)
ALUMINUM STOREFRONT SYSTEM W/ INSUL PANEL (TYP.)
EXTERIOR WALL CONSTRUCTION - SEE WALL SECTIONS (TYP.)
INSULATED JAMB BLOCK WITH BULLNOSE CORNER (TYP.)
S6
ALUMINUM STOREFRONT SYSTEM W/ INSUL PANEL (TYP.)
SEALANT & BACKER ROD - ALL SIDES (TYP.)
BRAKE METAL ALUMINUM SILL W/ DRIP & HEMMED EDGE - FINISH TO MATCH STOREFRONT (TYP.)
CONC. FLOOR CONSTR. - SEE WALL SECTIONS & STRUCT. DWGS. (TYP.)
S7
SEALANT & BACKER ROD - ALL SIDES (TYP.)
ALUMINUM STOREFRONT SYSTEM W/ CASEMENT WINDOW W/ INSUL GLASS & INSECT SCREENS (TYP.)
EXTERIOR WALL CONSTRUCTION - SEE WALL SECTIONS (TYP.)
INSULATED JAMB BLOCK WITH BULLNOSE CORNER (TYP.)

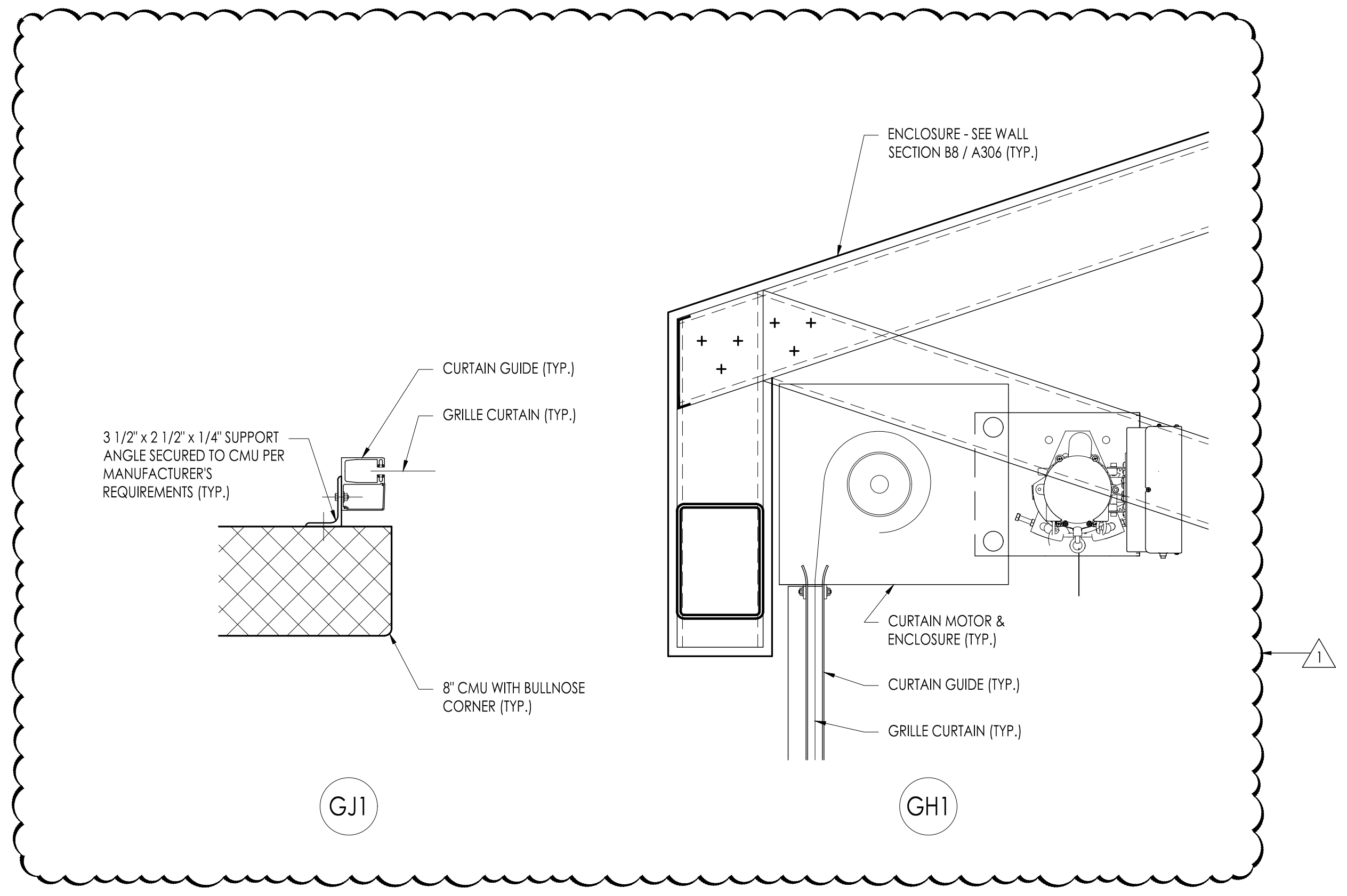
Storefront Details

Scale: 1-1/2" 1'-0"


P1
EXTERIOR WALL CONSTR. - SEE WALL SECTIONS (TYP.)
SEALANT - ALL SIDES (TYP.)
HEAD RECEPTOR CHANNEL (TYP.)
INSULATED TRANSLUCENT FIBERGLASS SANDWICH PANEL SYSTEM (TYP.)
STEEL LINTEL - SEE STRUCT. DWGS. (TYP.)
P2
SEALANT & BACKER ROD - ALL SIDES (TYP.)
JAMB RECEPTOR CHANNEL (TYP.)
INSULATED TRANSLUCENT FIBERGLASS SANDWICH PANEL SYSTEM (TYP.)
EXTERIOR WALL CONSTRUCTION - SEE WALL SECTIONS (TYP.)
INSULATED JAMB BLOCK WITH BULLNOSE CORNER (TYP.)
3½"
P3
OUTLINE OF MASONRY JAMB BEYOND (TYP.)
INSULATED TRANSLUCENT FIBERGLASS SANDWICH PANEL SYSTEM (TYP.)
ALUMINUM SILL EXTENSION (TYP.)
SEALANT (TYP.)
CONT THRU WALL FLASHING W/ WEEP HOLES (TYP.)
SILL RECEPTOR CHANNEL (TYP.)
SEALANT - ALL SIDES (TYP.)
SOLID SURFACE WINDOW STOOL
EXTERIOR WALL CONSTR. - SEE WALL SECTIONS (TYP.)

Translucent Panel Details

Scale: 1-1/2" 1'-0"


3 1/2" x 2 1/2" x 1/4" SUPPORT ANGLE SECURED TO CMU PER MANUFACTURER'S REQUIREMENTS (TYP.)
CURTAIN GUIDE (TYP.)
GRILLE CURTAIN (TYP.)
8" CMU WITH BULLNOSE CORNER (TYP.)
GJ1
ENCLOSURE - SEE WALL SECTION B8 / A306 (TYP.)
CURTAIN MOTOR & ENCLOSURE (TYP.)
CURTAIN GUIDE (TYP.)
GRILLE CURTAIN (TYP.)
GH1
1

NJDCA Electronic Release Stamp

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ - 21AI01706000 | PA - RA012520X
GEORGE R. DUTHIE JR., AIA, PP
NJ - 21AI01299200
JASON J. DUBOWITCH, AIA
NJ - 21AI01979800 | PA - RA406009
STEPHEN W. SCHREYER JR.., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

Architect
10/10/25
Date

FVHD architects planners
Fraytak Veisz Hopkins Duthie P C

Corporate: 1515 Lower Ferry Road
Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Avenue
Mont Clare - Pennsylvania 19453

F V H D P C . C O M

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

Project Number
5516B

Project Date
10.10.2025

Checked By
GRD

Drawn By
NEH

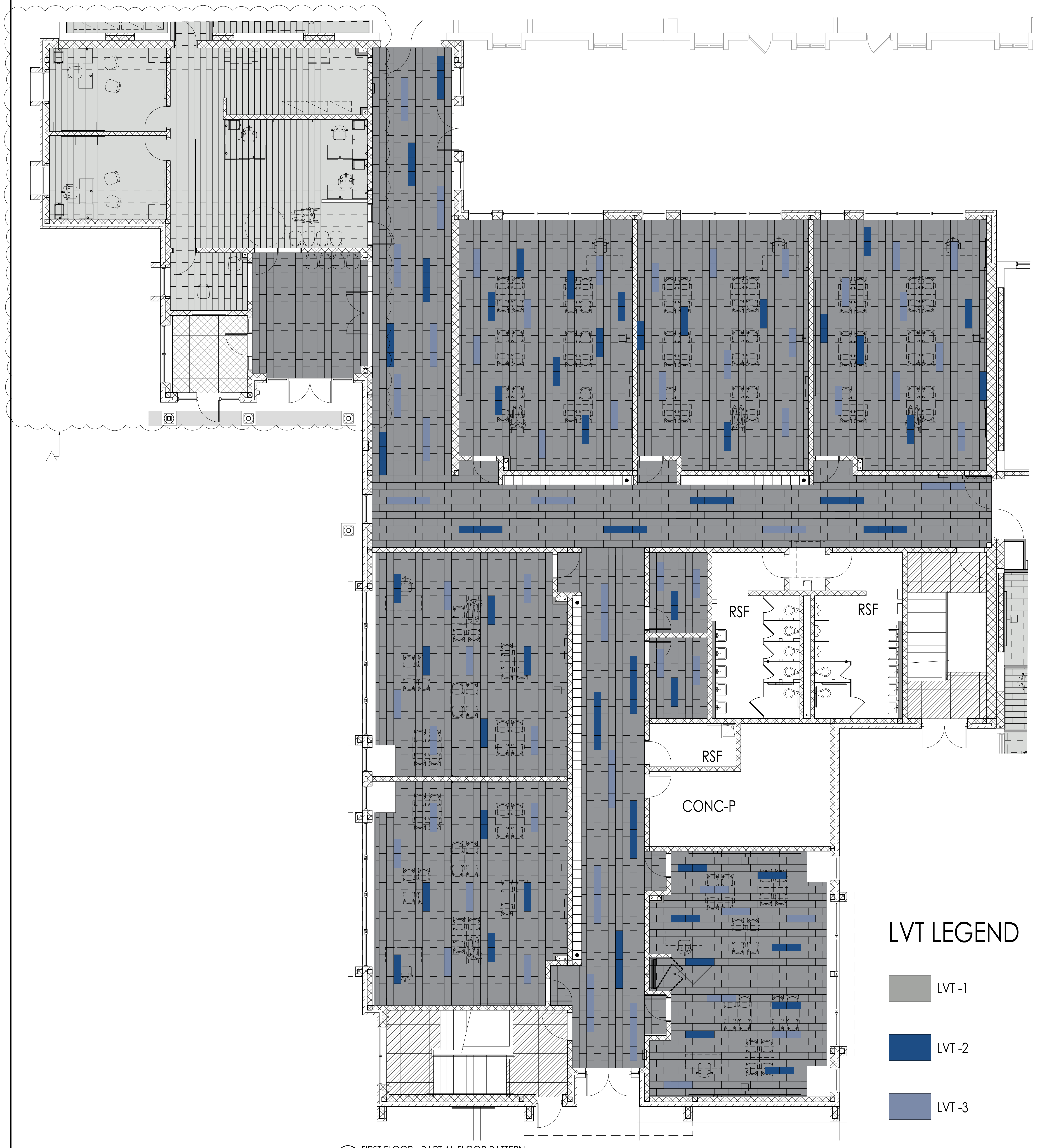
Scale
AS NOTED

Drawing Name
Window, Storefront and Translucent Panel Types and Details

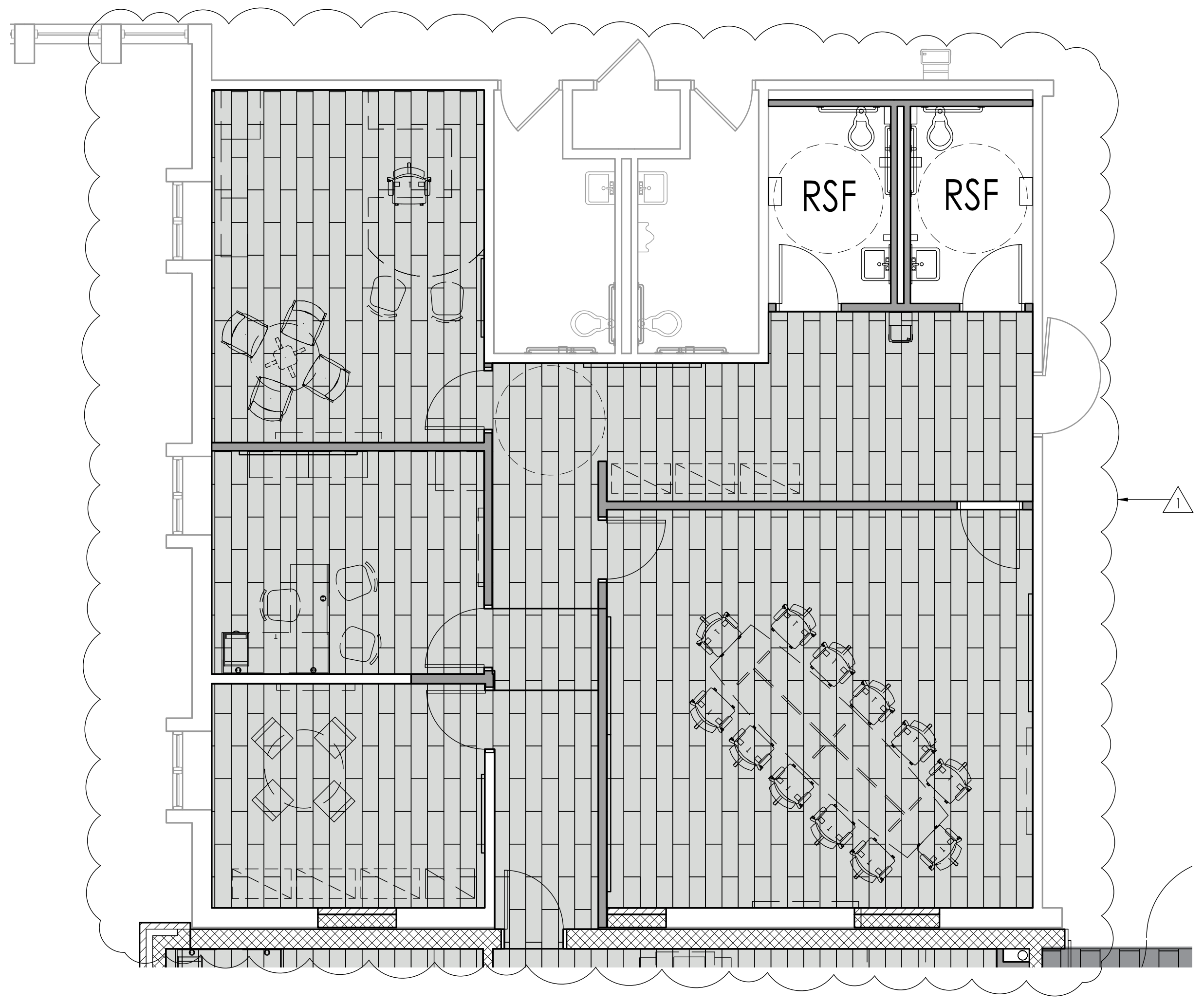
Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
1	1.14.26	ADDENDUM 1

Drawing Number
A602



① FIRST FLOOR - PARTIAL FLOOR PATTERN
Scale:3/16"=1'-0"



② FIRST FLOOR - PARTIAL FLOOR PATTERN
Scale:3/16"=1'-0"

LVT LEGEND

- ▩ LVT -1
- ■ LVT -2
- ▨ LVT -3

CARPET TILE LEGEND

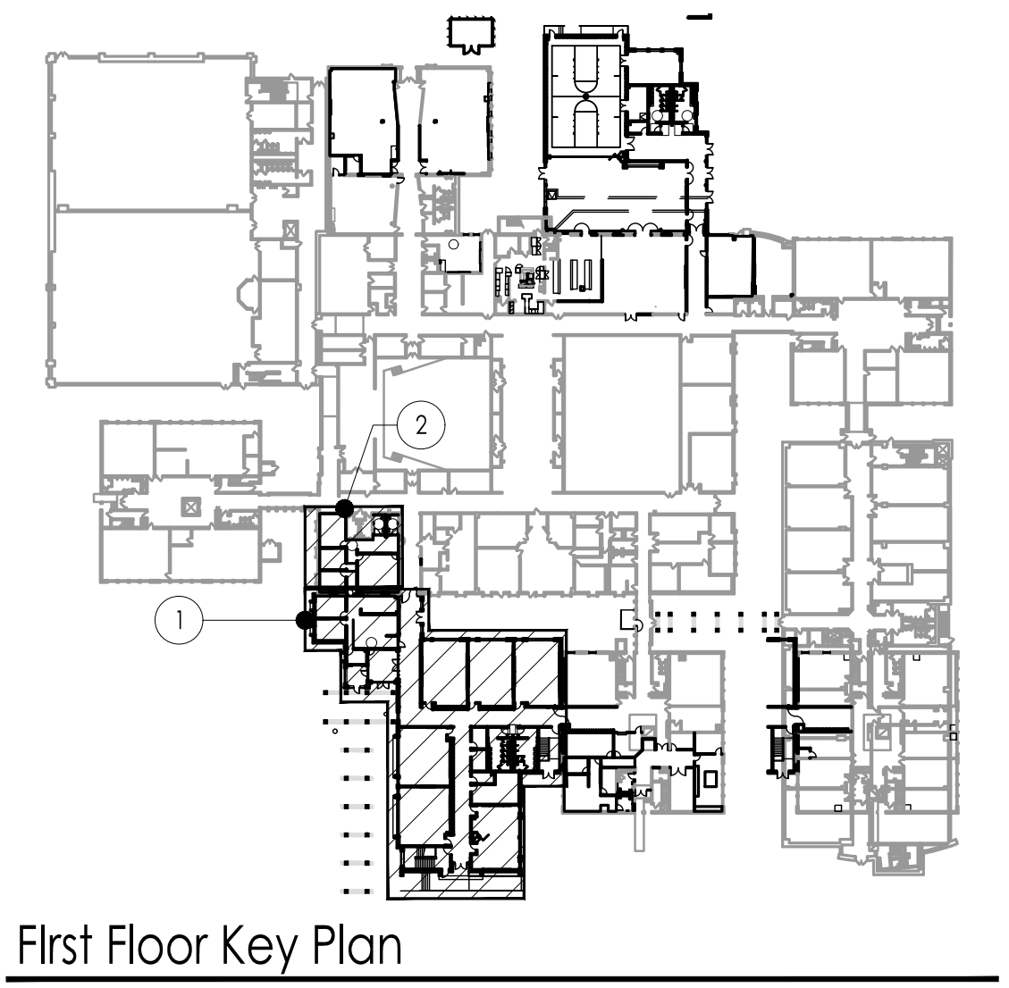
- ▭ CPT -1
- ▤ CPT -2
- ▨ CPT -3

RRT LEGEND

- ▨ RRT

CEM LEGEND

- ▩ CEM



First Floor Key Plan
Scale:NTS

NJDCA Electronic Release Stamp

FVHD architects planners
Fraytak Veisz Hopkins Duthie PC

Corporate: 1515 Lower Ferry Road
Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Avenue
Mont Clare - Pennsylvania 19453
F V H D P C . C O M

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ - 21AI01706000 | PA - RA012520X
GEORGE R. DUTHIE JR., AIA, PP
NJ - 21AI01299200
JASON J. DUBOWITCH, AIA
NJ - 21AI01979800 | PA - RA406009
STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

Architect
10/10/25
Date

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

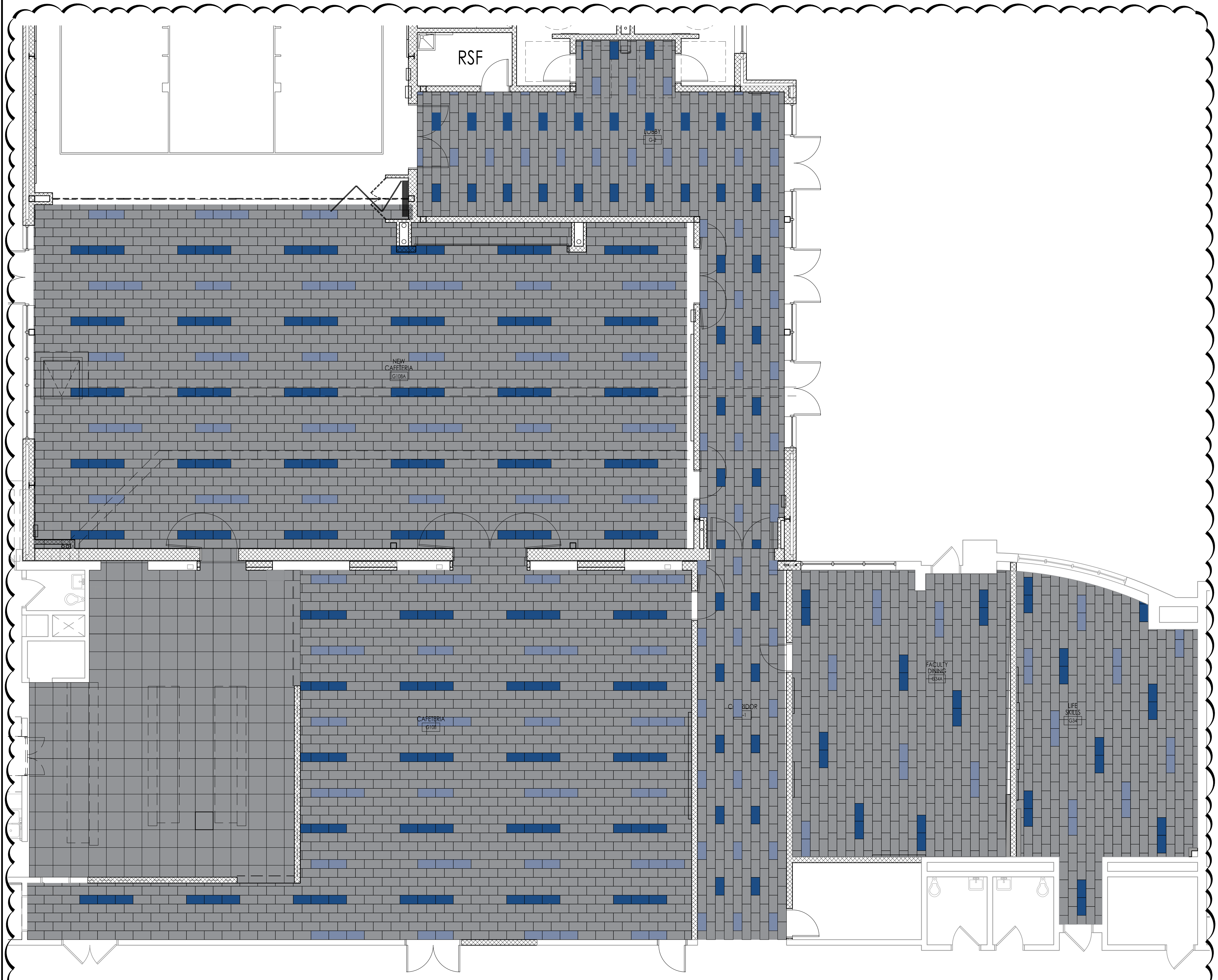
Project Number
5516B
Project Date
10.10.2025
Checked By
GRD
Drawn By
KAH,KAM
Scale
AS NOTED

Drawing Name
Floor Finish Plans

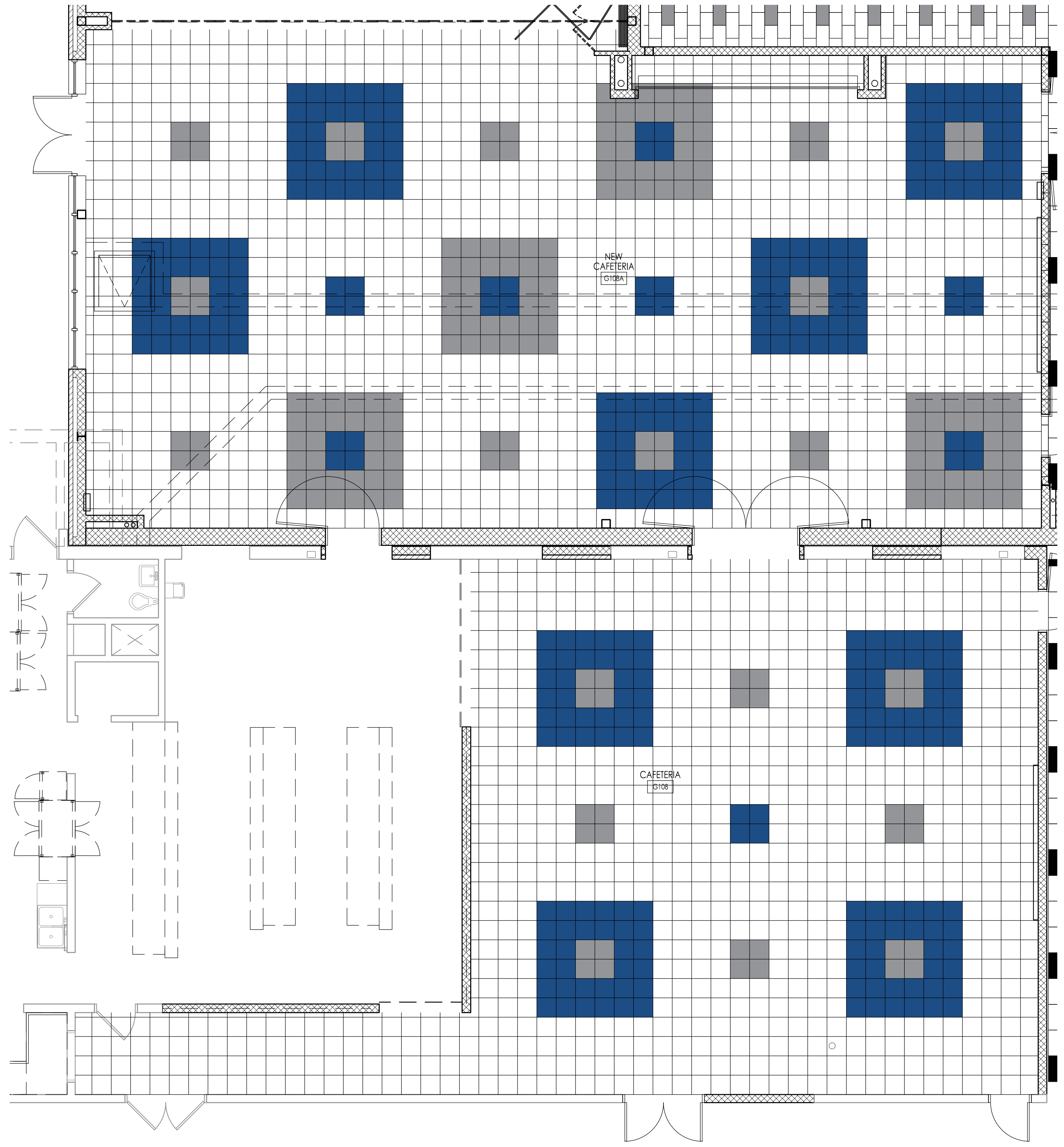
Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
1	1.14.26	ADDENDUM 1

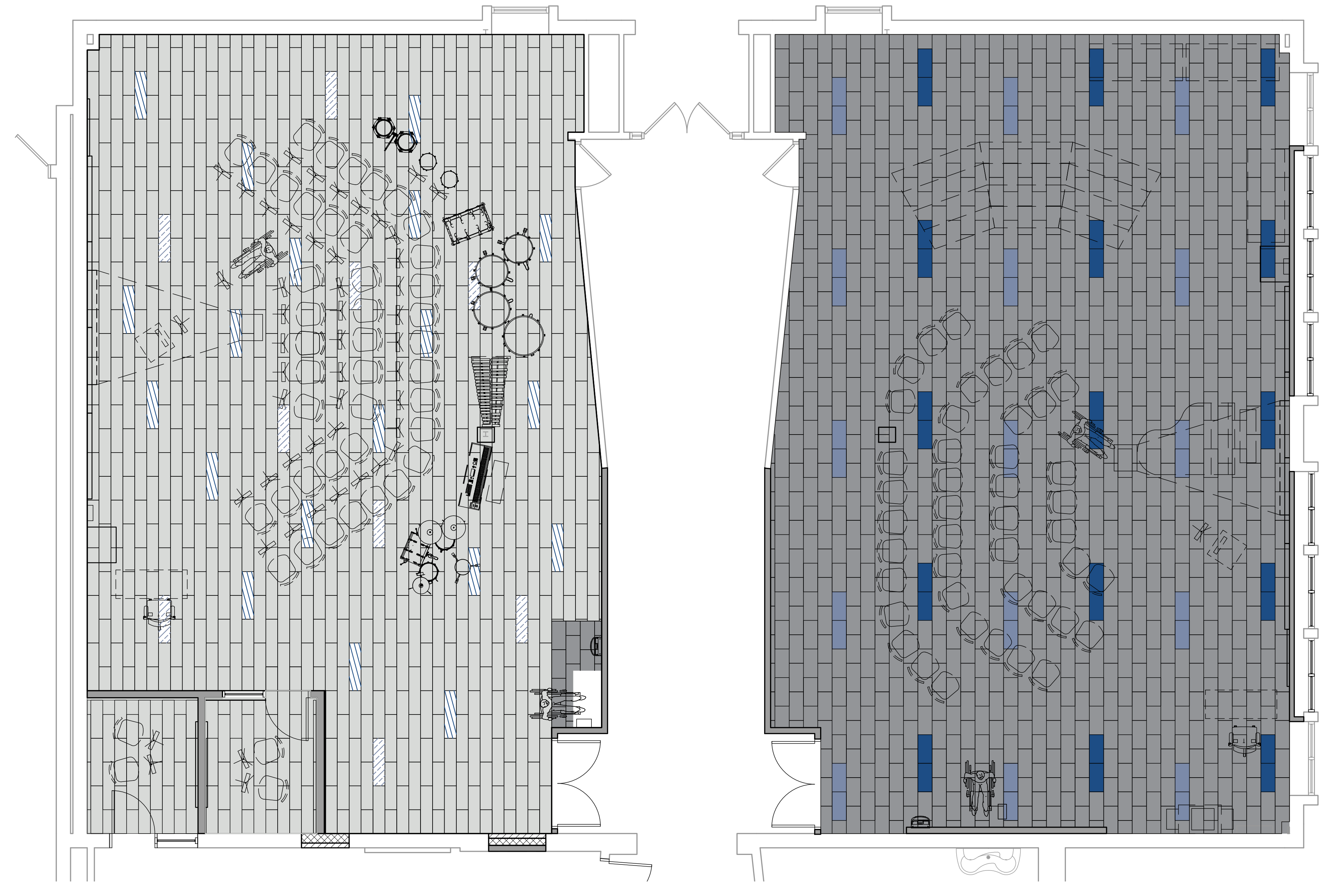
Drawing Number
A701



1 New Cafeteria G108A, Cafeteria G108, Lobby G2 & Corridor G1 - Floor Finish Plan
Scale:3/16"=1'-0"



1A New Cafeteria G108A, Cafeteria G108- Floor Finish Plan (Alt Bid No.1)
Scale:3/16"=1'-0"



2 Band Room A102 &
Scale:3/16"=1'-0"

LVT LEGEND

- ■ LVT -1
- ■ LVT -2
- ■ LVT -3

CARPET TILE LEGEND

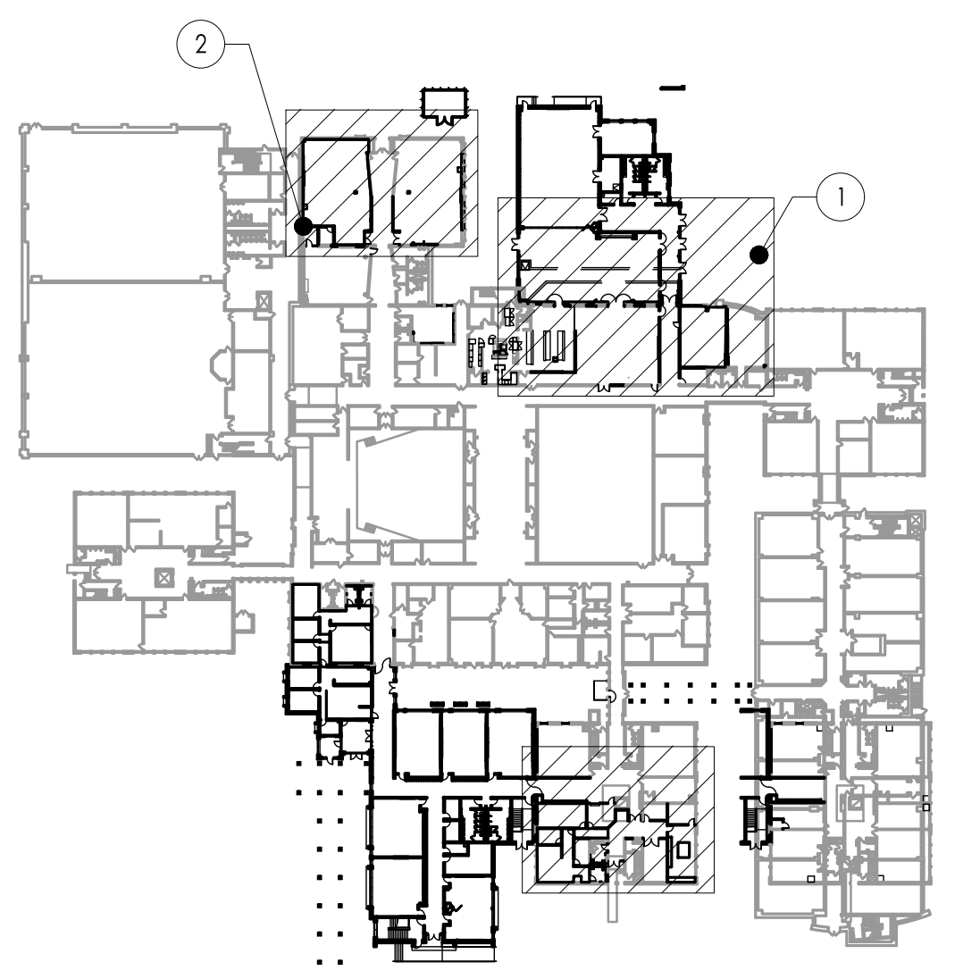
- ■ CPT -1
- ▨ CPT -2
- ▨ CPT -3

RRT LEGEND

- ▨ RRT

QUARTZ TILE LEGEND

- ☐ QTZ -1
- ■ QTZ -1
- ■ QTZ -1



First Floor Key Plan
Scale:NTS

NJDCA Electronic Release Stamp

Fraytak Veisz Hopkins Duthie P C
architects planners

Corporate: 1515 Lower Ferry Road
Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Avenue
Mont Clare - Pennsylvania 19453
F V H D P C . C O M

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NJ - 21AI02003100 | PA - RA410435

Architect
10/10/25
Date

Project Name
Addition and Renovations to Princeton Middle School

Project Owner Name
Princeton Public Schools

Project Location
217 Walnut Lane,
Princeton, NJ
08540

Project Number
5516B
Project Date
10.10.2025
Checked By
GRD
Drawn By
KAH
Scale
AS NOTED

Drawing Name
Floor Finish Plans

Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
1	1.14.26	ADDENDUM 1

Drawing Number
A702

INTERIOR FINISH LEGEND

ACOUSTICAL CEILING SYSTEMS	
ACB-1	DESCRIPTION: 2x4 ACOUSTICAL CEILING BOARD MANUF: ARMSTRONG OR APPROVED EQUAL SERIES: 863 ULTIMA HIGH NRC COLOR: WHITE SIZE: 24" x 48" x 7/8" EDGE PROFILE: LAY-IN NOTE: REFER TO SPECIFICATIONS
ACB-2	DESCRIPTION: 2x2 ACOUSTICAL CEILING BOARD MANUF: ARMSTRONG OR APPROVED EQUAL SERIES: ULTIMA HIGH NRC COLOR: WHITE SIZE: 24" x 24" x 7/8" EDGE PROFILE: LAY-IN NOTE: REFER TO SPECIFICATIONS
AACB-1	DESCRIPTION: 2x4 ACOUSTICAL CEILING BOARD MANUF: ARMSTRONG OR APPROVED EQUAL SERIES: 605 CERAGUARD MAX COLOR: WHITE SIZE: 24" x 48" x 5/8" EDGE PROFILE: LAY-IN NOTE: REFER TO SPECIFICATIONS

DECORATIVE CEILING SYSTEMS	
DSC-1	DESCRIPTION: ACOUSTICAL CANOPIES MANUF: ARMSTRONG OR APPROVED EQUAL SERIES: FORMATIONS COLOR: TBD SIZE: 36" x 36" x 1 1/4" NOTE: REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND SPECIFICATIONS
DSC-1A	DESCRIPTION: ACOUSTICAL CANOPIES MANUF: ARMSTRONG OR APPROVED EQUAL SERIES:FORMATIONS SIZE: SEE RCP NOTE: REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND SPECIFICATIONS
DSC-2	DESCRIPTION: ACOUSTICAL CANOPIES MANUF: ARMSTRONG OR APPROVED EQUAL SERIES: SOUNDSCAPES ACOUSTICAL CANOPIES SIZE: SEE RCP COLOR: TBD NOTE: REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND SPECIFICATIONS

CARPET TILE	
CRT-1	MANUF: INTERFACE OR APPROVED EQUAL COLLECTION: NIGHT LIGHTS SERIES/COLOR: TBD SIZE: 9.845" x 39.38" INSTALL METHOD: TBD
CRT-2	MANUF: INTERFACE OR APPROVED EQUAL COLLECTION: ONLINE SERIES/COLOR: TBD SIZE: 9.845" x 39.38" INSTALL METHOD: TBD
CRT-3	MANUF: INTERFACE OR APPROVED EQUAL COLLECTION: ONLINE SERIES/COLOR: TBD SIZE: 9.845" x 39.38" INSTALL METHOD: TBD

CORNER GUARDS	
CG-1	DESCRIPTION: 2" SURFACE MOUNT CORNER GUARD MANUF: INPRO OR APPROVED EQUAL STYLE: 160 HIGH IMPACT CORNER GUARD COLOR: TBD (MANUF. FULL RANGE) DIMENSIONS: 2" WING x 48" H INSTALL: INSTALL WITH PRE-SLOTTED ALUMINUM RETAINER
CG-1	DESCRIPTION: SURFACE MOUNT END WALL PROTECTOR W/ END CAPS MANUF: INPRO OR APPROVED EQUAL STYLE: 160 HIGH IMPACT END WALL PROTECTOR COLOR: TBD (MANUF. FULL RANGE) DIMENSIONS: 2" WING x 4'H. INSTALL: INSTALL WITH PRE-SLOTTED ALUMINUM RETAINER

FIBER REINFORCED PLASTIC	
FRP-1	MANUF: ALTRO OR APPROVED EQUAL COLLECTION: WHITEROCK COLOR: TBD DIMENSIONS: 4x10 PANELS INSTALL: PROVIDE ACCESSORIES AS SPECIFIED
FRP-2	MANUF: ALTRO OR APPROVED EQUAL COLLECTION: WHITEROCK COLOR: TBD DIMENSIONS: 4x10 PANELS INSTALL: PROVIDE ACCESSORIES AS SPECIFIED

QUARTZ TILE CONT	
QZ-1	MANUF: RIKETT OR APPROVED EQUAL (ALT BID) COLLECTION: MEDLEY SERIES/COLOR: 8835 PURPLE RAIN SIZE: 24" x 24" INSTALL METHOD: TBD
QZ-2	MANUF: RIKETT OR APPROVED EQUAL (ALT BID) COLLECTION: MEDLEY SERIES/COLOR: 8835 PURPLE RAIN SIZE: 24" x 24" INSTALL METHOD: TBD
QZ-3	MANUF: RIKETT OR APPROVED EQUAL (ALT BID) COLLECTION: MEDLEY SERIES/COLOR: 8835 PURPLE RAIN SIZE: 24" x 24" INSTALL METHOD: TBD

PAINT	
P-1	DESCRIPTION: FIELD COLOR WALL PAINT MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: SEE COLOR BOOK FOR FINISH
P-2	DESCRIPTION: HOLLOW METAL FRAMES MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: SEMI -GLOSS
P-3	DESCRIPTION: ACCENT PAINT MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: EGGSHELL

PAINT CONT	
P-4	DESCRIPTION: ACCENT PAINT MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: EGGSHELL
P-5	DESCRIPTION: ACCENT PAINT MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: EGGSHELL
P-6	DESCRIPTION: CEILING / SOFFIT/DUCT WORK MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: FLAT
P-7	DESCRIPTION: CEILING / SOFFIT/DUCT WORK MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: FLAT

LUXURY VINYL TILE CONT	
LVT-1	MANUF: PATCRAFT OR APPROVED EQUAL COLLECTION: CMYK SERIES/COLOR: TBD SIZE: 12" x 24" INSTALL METHOD: STAGGERED/ BRICK SEE FINISH PLANS
LVT-2	MANUF: PATCRAFT OR APPROVED EQUAL COLLECTION: CMYK SERIES/COLOR: TBD SIZE: 12" x 24" INSTALL METHOD: STAGGERED/ BRICK SEE FINISH PLANS
LVT-3	MANUF: PATCRAFT OR APPROVED EQUAL COLLECTION: CMYK SERIES/COLOR: TBD SIZE: 12" x 24" INSTALL METHOD: STAGGERED/ BRICK SEE FINISH PLANS
LVT-4	MANUF: PATCRAFT OR APPROVED EQUAL COLLECTION: CMYK SERIES/COLOR: TBD SIZE: 12" x 24" INSTALL METHOD: STAGGERED/ BRICK SEE FINISH PLANS

STATIC DISSIPATIVE VINYL COMPOSITION TILE	
VCT-NC	DESCRIPTION: MEDIA CENTER FLOOR MANUF: ARMSTRONG SERIES/COLOR: TBD SIZE: 12" x 12" INSTALL METHOD: STBD

PLASTIC LAMINATE	
PLAM-1	DESCRIPTION: HIGH PRESSURE LAMINATE MANUF: WILSONART OR APPROVED EQUAL COLOR: TBD
PLAM-2	DESCRIPTION: HIGH PRESSURE LAMINATE MANUF: WILSONART OR APPROVED EQUAL COLOR: TBD

LVT LEGEND

☐ LVT -1

☐ LVT -2

☐ LVT -3

CARPET TILE LEGEND

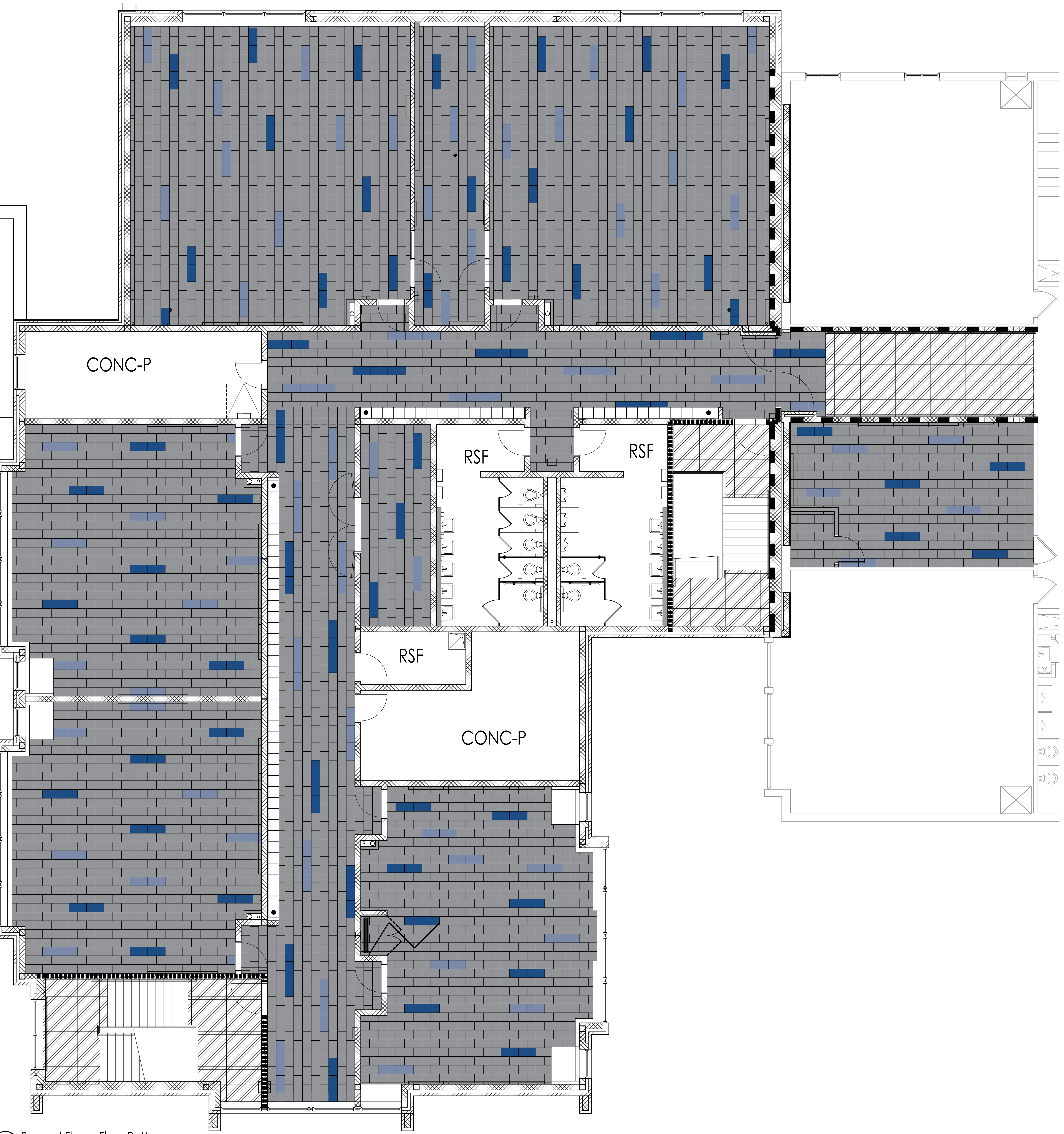
▒ CPT -1

☐ CPT -2

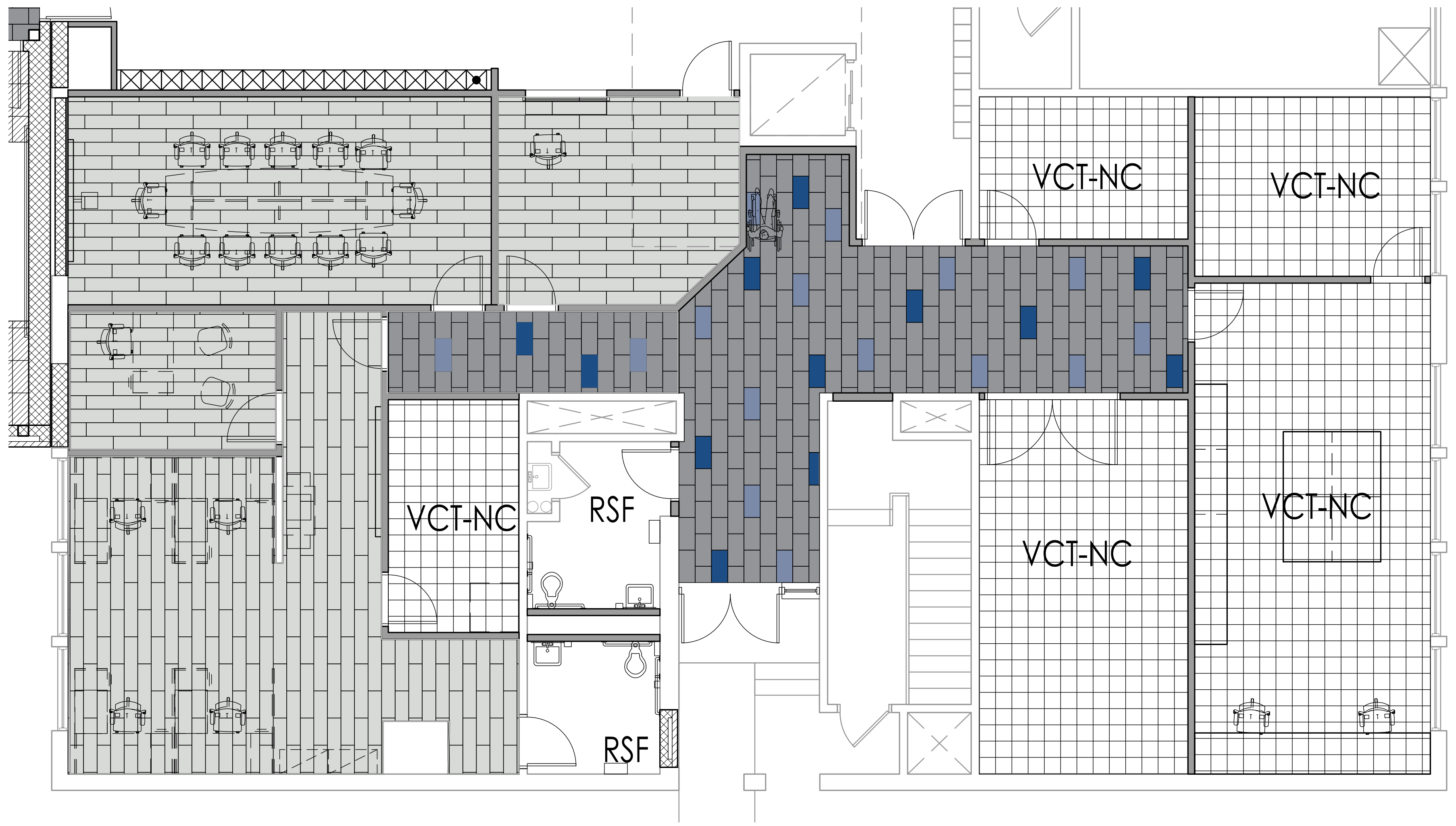
☐ CPT -3

RRT LEGEND

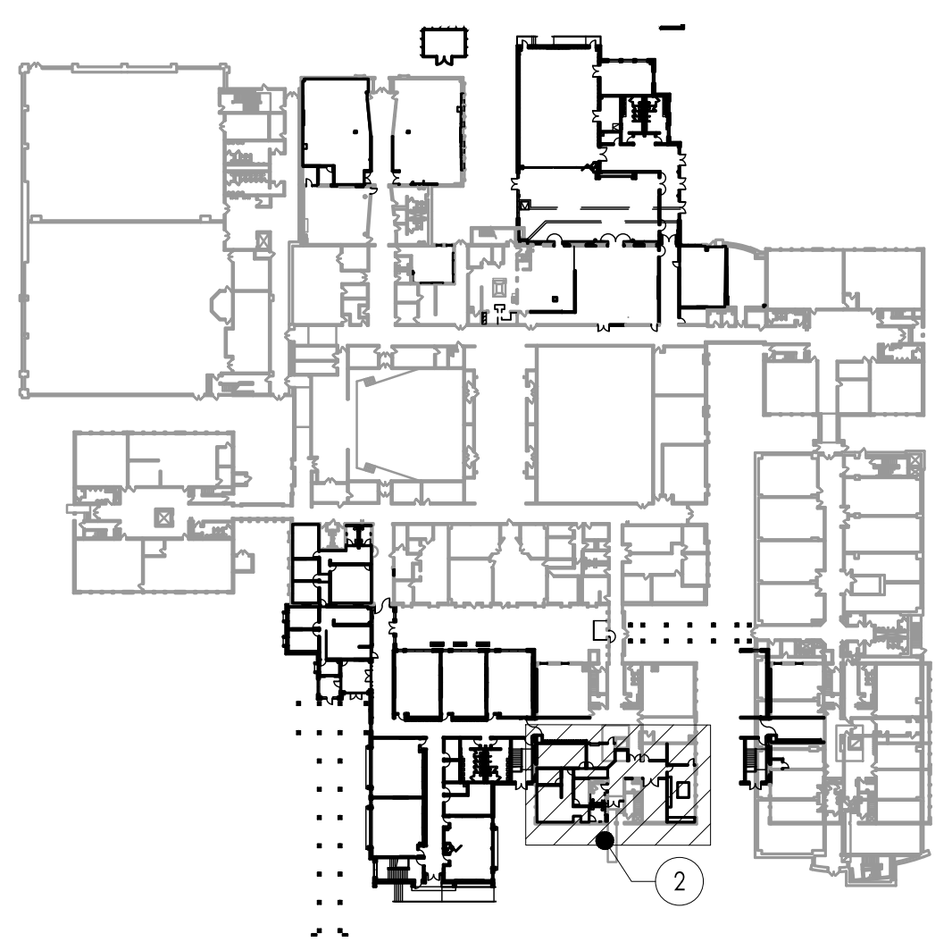
▨ RRT



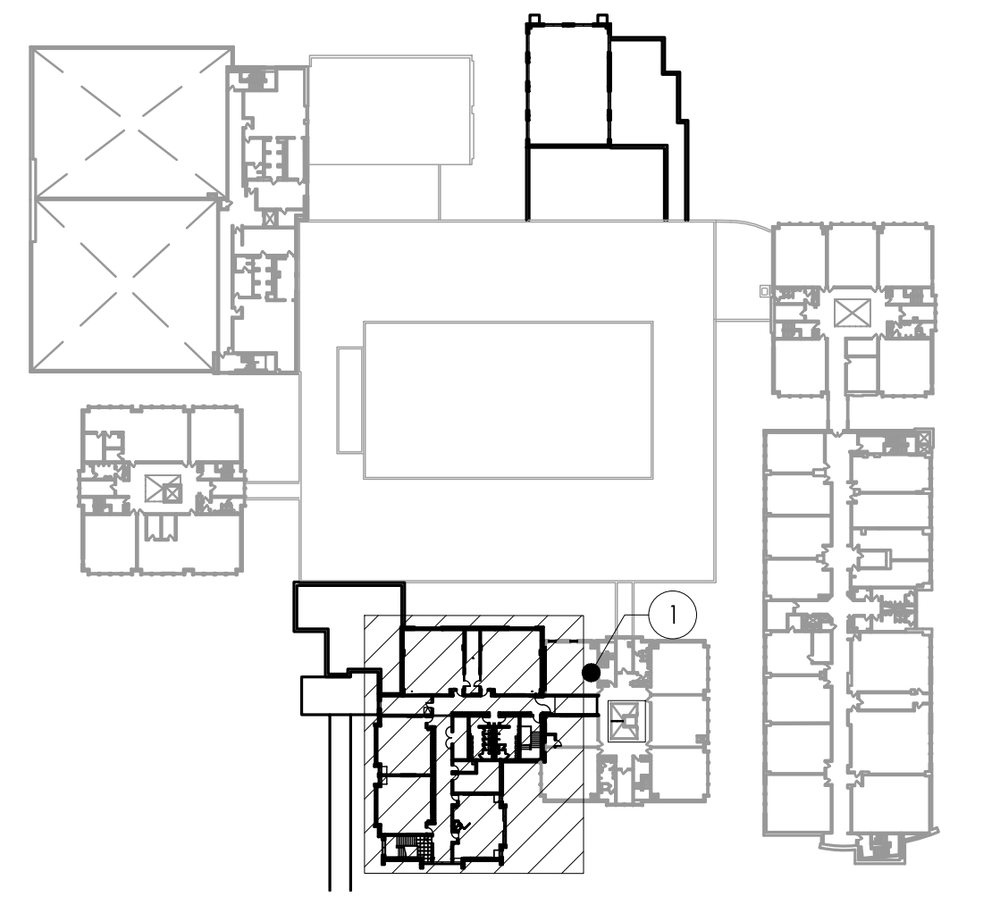
1 Second Floor - Floor Patterns
Scale:3/16"=1'-0"



2 IT Department- Floor Patterns
Scale:3/16"=1'-0"



First Floor Key Plan
Scale:NTS



Second Floor Key Plan
Scale:NTS

NJDCA Electronic Release Stamp

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NJ - 21AI02003100 | PA - RA410435

Architect

10/10/25
Date

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F V H D P C . C O M

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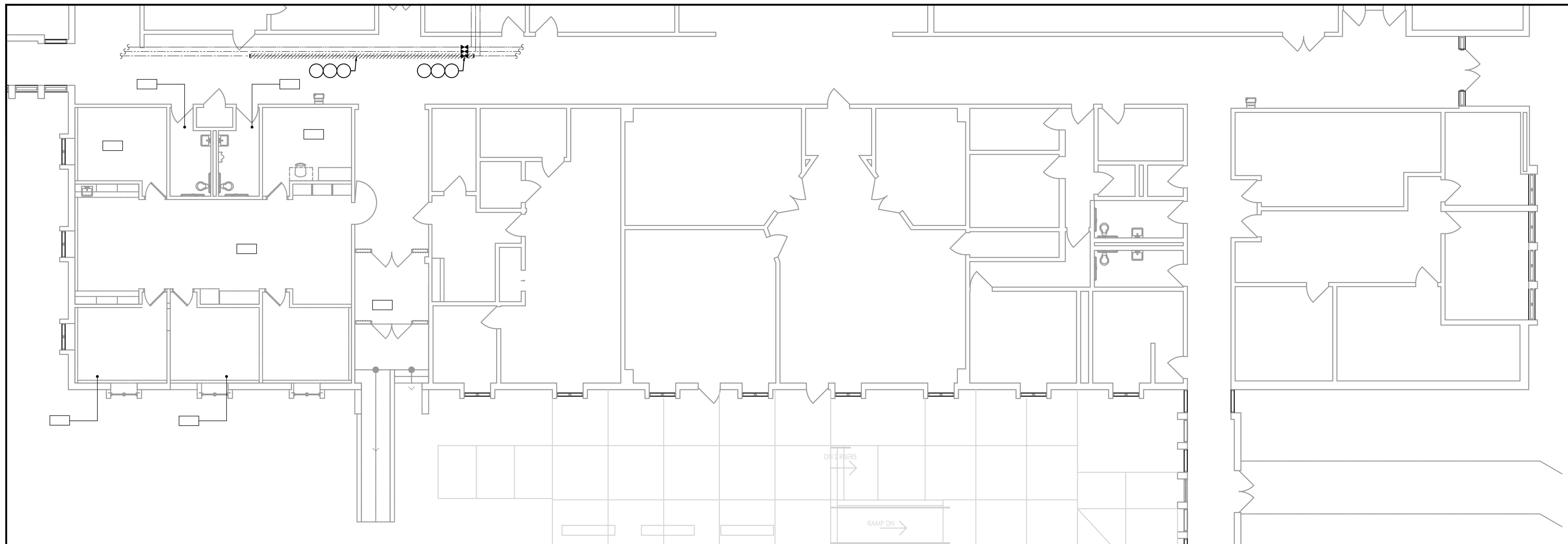
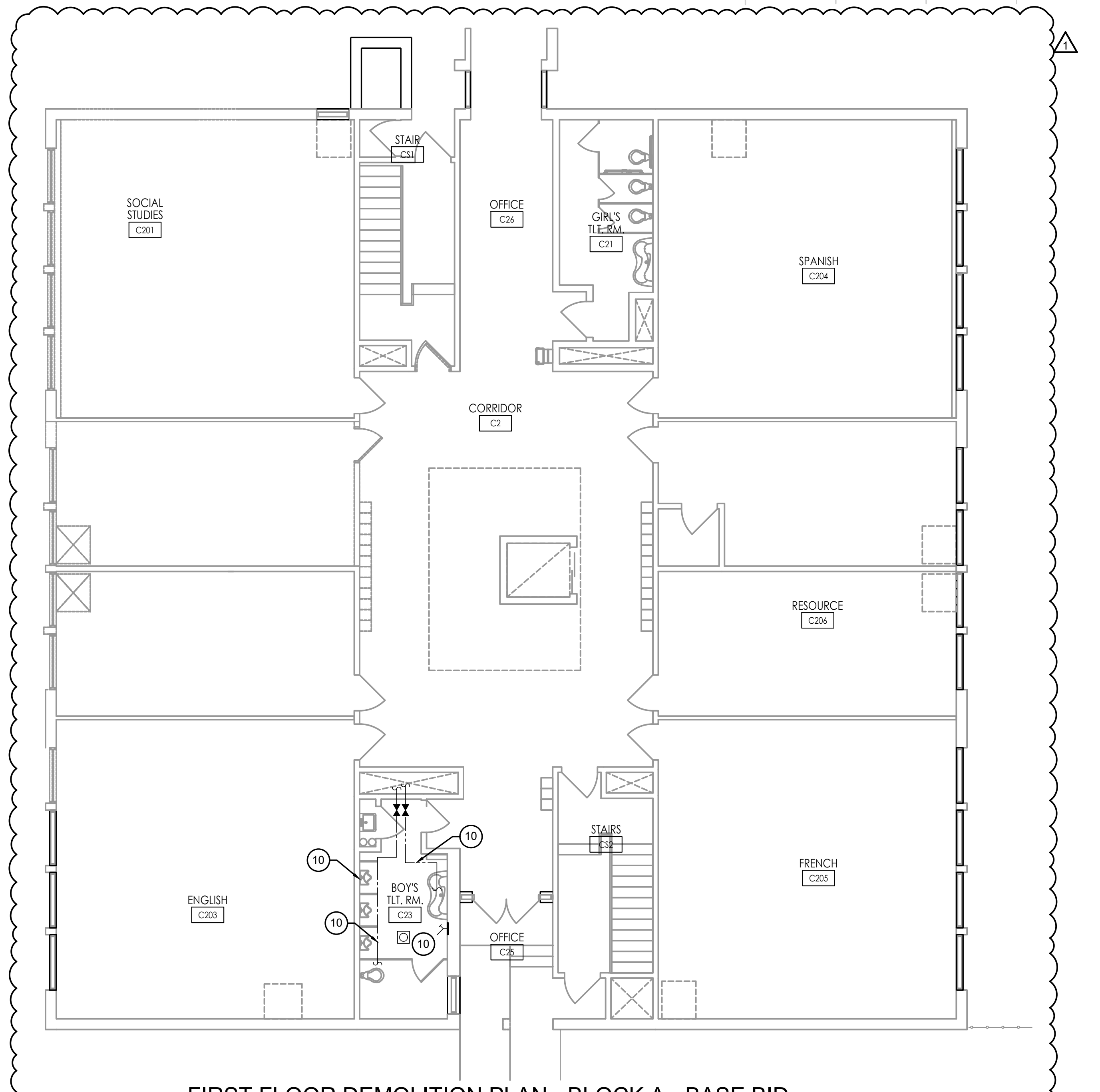
Drawing Name
Floor Finish Plans

Revisions

No.	Date	Description
	10.10.25	NJ DCA SUBMISSION
	12.03.25	NJ DCA RESPONSES
1	1.14.26	ADDENDUM 1

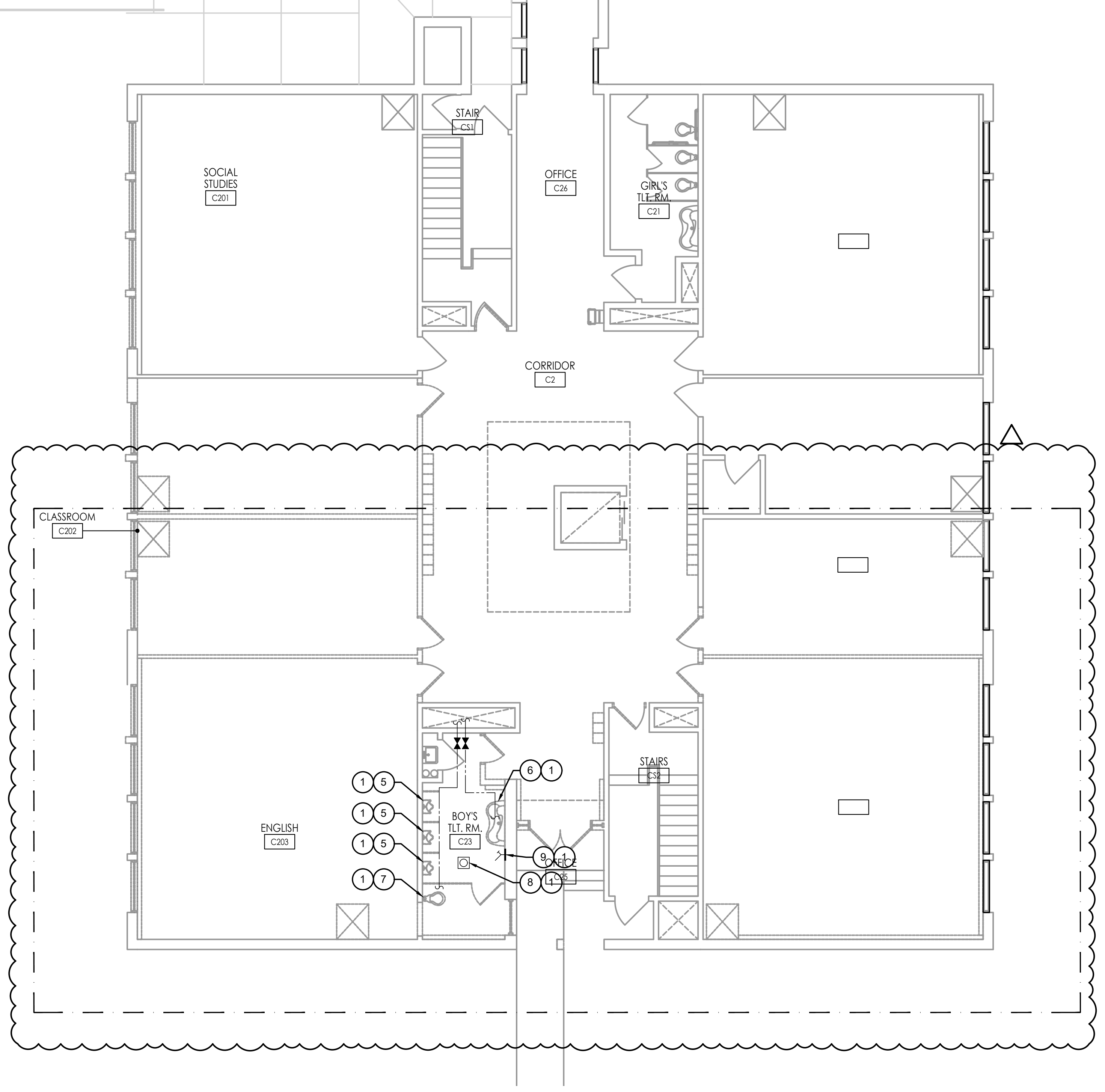
Drawing Number
A703

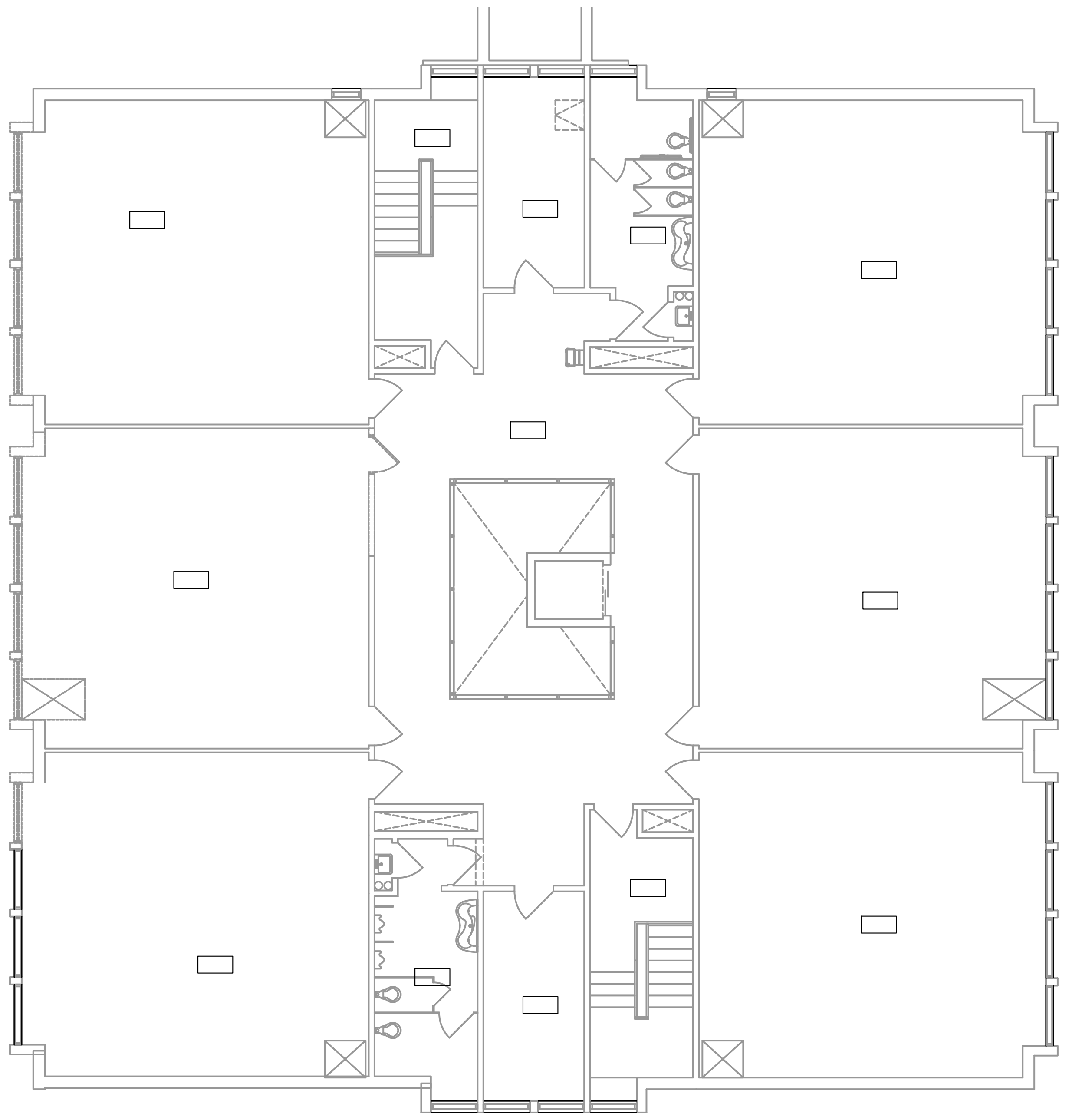




FIRST FLOOR DEMOLITION PLAN - BLOCK A - BASE BID

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





FIRST FLOOR DEMOLITION PLAN - BLOCK A

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

DEMOLITION KEY NOTES

① FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING PIPING.

② CAREFULLY REMOVE EXISTING CEILING TILE FOR THIS WORK AND REINSTALL IN ORIGINAL CONDITION. CONTRACTOR RESPONSIBLE TO REPLACE ANY CEILING TILE DAMAGED AS PART OF THIS WORK WITH NEW TILE TO MATCH EXISTING.

③ REMOVE EXISTING 21/2" COLD WATER PIPING ABOVE CEILING BACK AS INDICATED AND MAKE READY FOR RECONNECTION TO NEW PIPING. SEE NEW WORK PLAN. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

④ REMOVE EXISTING 2 1/2" SHUT OFF VALVE AND REPLACE WITH NEW 3" SHUT OFF VALVE. SEE NEW WORK PLAN.

⑤ DISCONNECT AND REMOVE EXISTING URINAL AND FLUSH VALVE, CLEAN AND RETURN TO OWNER. REMOVE SANITARY PIPING BACK TO BEHIND WALL AND CAP WATER TIGHT. REMOVE EXISTING COLD WATER PIPING IN WALL AND BACK UP TO ABOVE CEILING BACK TO MAIN AND CAP WATER TIGHT. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

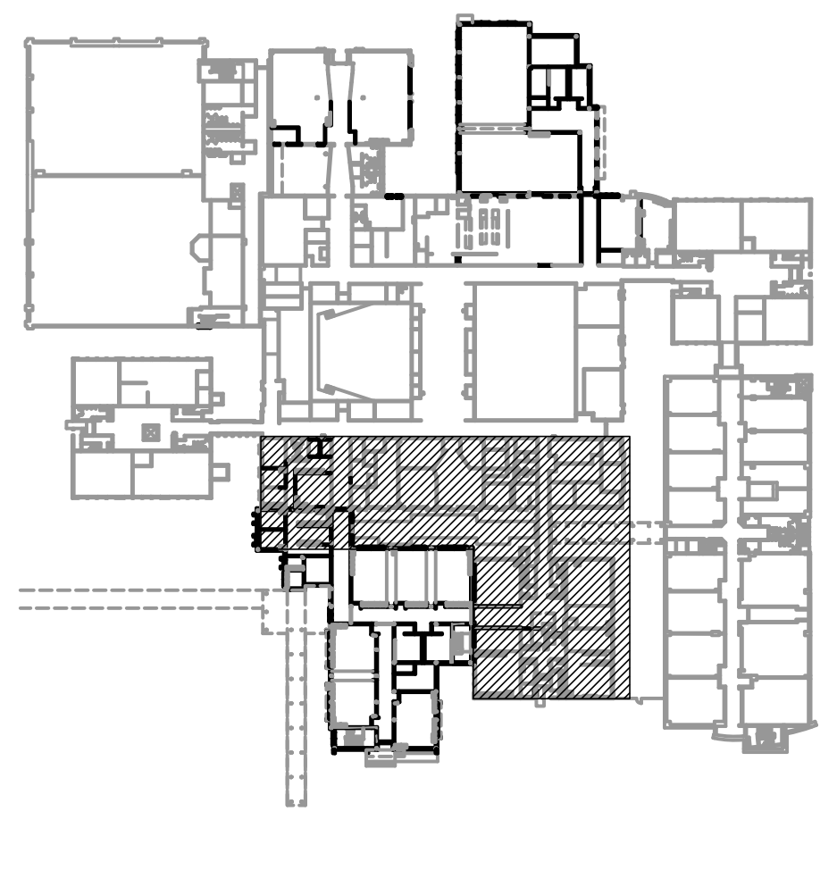
⑥ DISCONNECT AND REMOVE EXISTING WALL HUNG LAVATORY SYSTEM, CLEAN AND RETURN TO OWNER. REMOVE SANITARY PIPING BACK TO BEHIND WALL AND CAP WATER TIGHT. REMOVE EXISTING HOT AND COLD WATER PIPING IN WALL AND BACK UP TO ABOVE CEILING BACK TO MAIN AND CAP WATER TIGHT. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

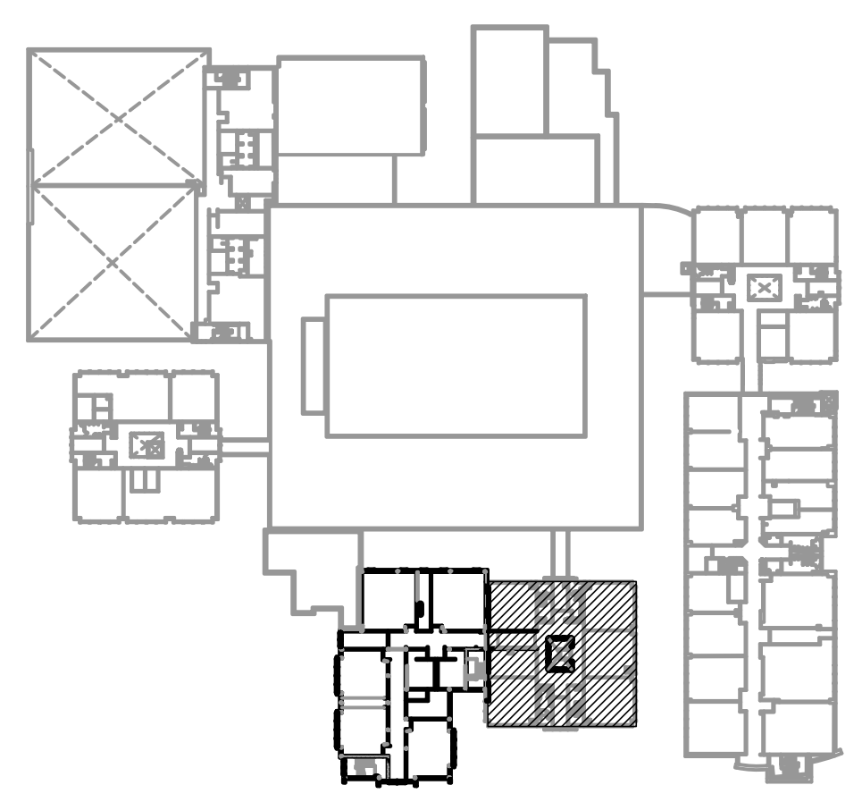
⑦ DISCONNECT AND REMOVE EXISTING FLOOR MOUNTED WATER CLOSET AND FLUSH VALVE, CLEAN AND RETURN TO OWNER. REMOVE CLOSET FLANGE AND SANITARY PIPING BACK TO CONNECTION TO MAIN BELOW FLOOR AND CAP WATER TIGHT. REMOVE RELATED VENT PIPING BACK UP TO ABOVE CEILING AND PREPARE FOR EXTENSION TO NEW VENT PIPING. SEE NEW WORK PLAN. REMOVE EXISTING COLD WATER PIPING IN WALL AND BACK UP TO MAIN ABOVE CEILING AND CAP WATER TIGHT. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

⑧ DISCONNECT AND REMOVE EXISTING FLOOR DRAIN. REMOVE SANITARY PIPING BACK TO CONNECTION TO MAIN AND CAP WATER TIGHT. REMOVE RELATED VENT PIPING BACK UP TO CONNECTION TO MAIN ABOVE CEILING AND CAP WATER TIGHT. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

⑨ DISCONNECT AND REMOVE EXISTING WALL MOUNTED HOSE BIB. REMOVE EXISTING COLD WATER PIPING IN WALL AND BACK UP TO CONNECTION TO MAIN ABOVE CEILING AND CAP WATER TIGHT. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

⑩ EXISTING TO REMAIN.





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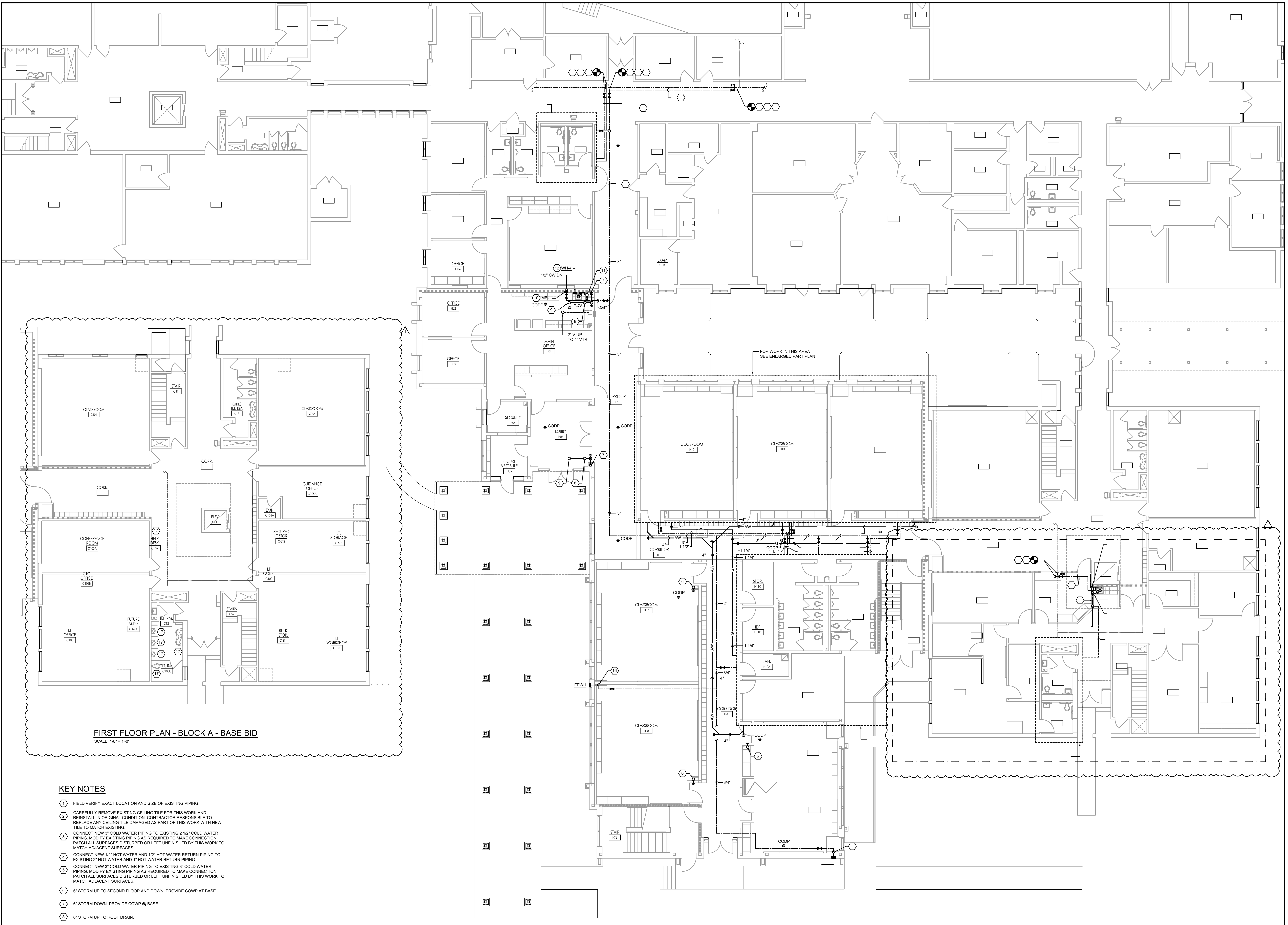
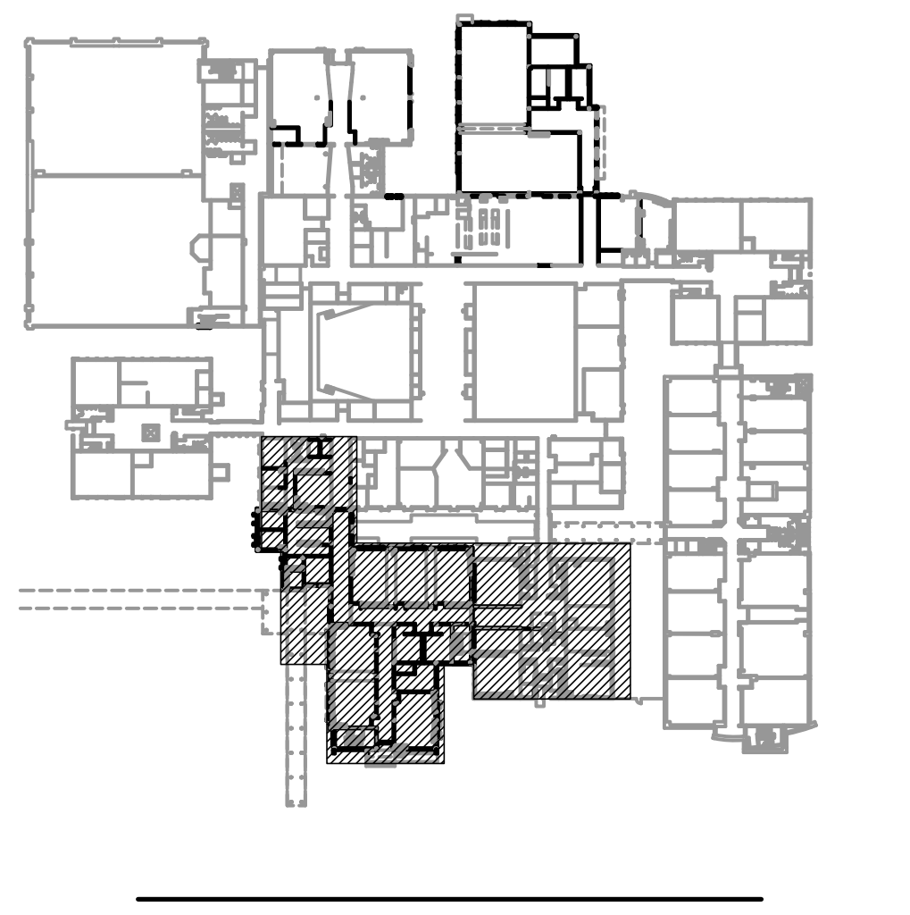


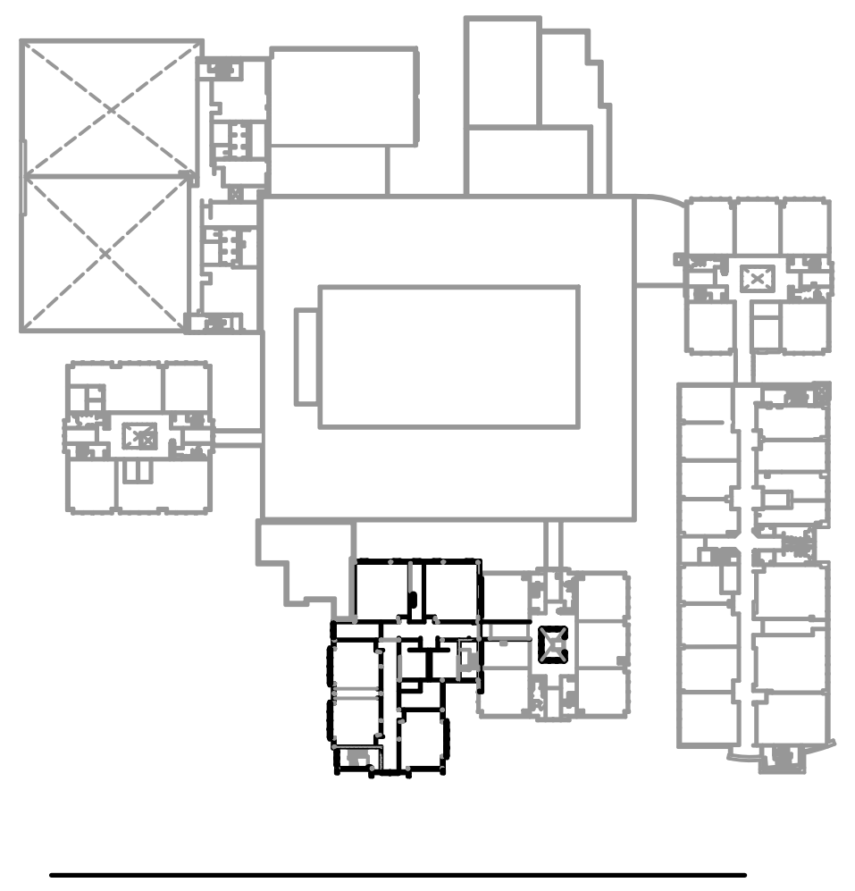
FIRST FLOOR PLAN - BLOCK A - BASE BID
SCALE: 1/8" = 1'-0"

FIRST FLOOR PLAN - BLOCK A
SCALE: 1/8" = 1'-0"

KEY NOTES

1. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING PIPING.
2. CAREFULLY REMOVE EXISTING CEILING TILE FOR THIS WORK AND REINSTALL IN ORIGINAL CONDITION. CONTRACTOR RESPONSIBLE TO REPLACE ANY CEILING TILE DAMAGED AS PART OF THIS WORK WITH NEW TILE TO MATCH EXISTING.
3. CONNECT NEW 3" COLD WATER PIPING TO EXISTING 2 1/2" COLD WATER PIPING. MODIFY EXISTING PIPING AS REQUIRED TO MAKE CONNECTION. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
4. CONNECT NEW 1/2" HOT WATER AND 1/2" HOT WATER RETURN PIPING TO EXISTING 2" HOT WATER AND 1" HOT WATER RETURN PIPING.
5. CONNECT NEW 3" COLD WATER PIPING TO EXISTING 3" COLD WATER PIPING. MODIFY EXISTING PIPING AS REQUIRED TO MAKE CONNECTION. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
6. 6" STORM UP TO SECOND FLOOR AND DOWN. PROVIDE COWP AT BASE.
7. 6" STORM DOWN. PROVIDE COWP @ BASE.
8. 6" STORM UP TO ROOF DRAIN.
9. 6" STORM UP TO OVERFLOW DRAIN.
10. RECESS REFRIGERATOR ICE MAKE BOX INTO CONCRETE BLOCK WALL. DROP COLD WATER PIPING DOWN THRU CONCRETE BLOCK CORES.
11. 3/4" COLD WATER AND 2" SANITARY DOWN. PROVIDE COWP AT BASE. 2" VENT UP. EXTEND WATER PIPING TO SINK AND TANKLESS HEATER AND SANITARY PIPING BENEATH COUNTER TO SINK IN NEAT MANNER. WATER PIPING SHALL BE INSTALLED TIGHT TO WALL. PROVIDE ESCUTCHEONS AT CABINET PENETRATIONS.
12. INSTALL TANKLESS WATER HEATER BELOW SINK INSIDE SINK CABINET. EXTEND HOT WATER FROM HEATER TO SINK FAUCET. PROVIDE SUPPLY STOP VALVE ON COLD WATER SUPPLY TO WATER HEATER.
13. CONNECT NEW 1/2" COLD AND 1/2" HOT WATER PIPING TO EXISTING 2 1/2" COLD WATER AND 1 1/4" HOT WATER PIPING. EXTEND, OFFSET, MODIFY AND ADJUST EXISTING PIPING AS REQUIRED TO MAKE CONNECTIONS. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
14. RACK PIPING ON WALL ABOVE CEILING.
15. ROUTE VENT PIPING THRU WALL.
16. 3/4" COLD WATER DOWN. COORDINATE WITH UNIT VENTILATOR INSTALLATION.
17. EXISTING TO REMAIN.





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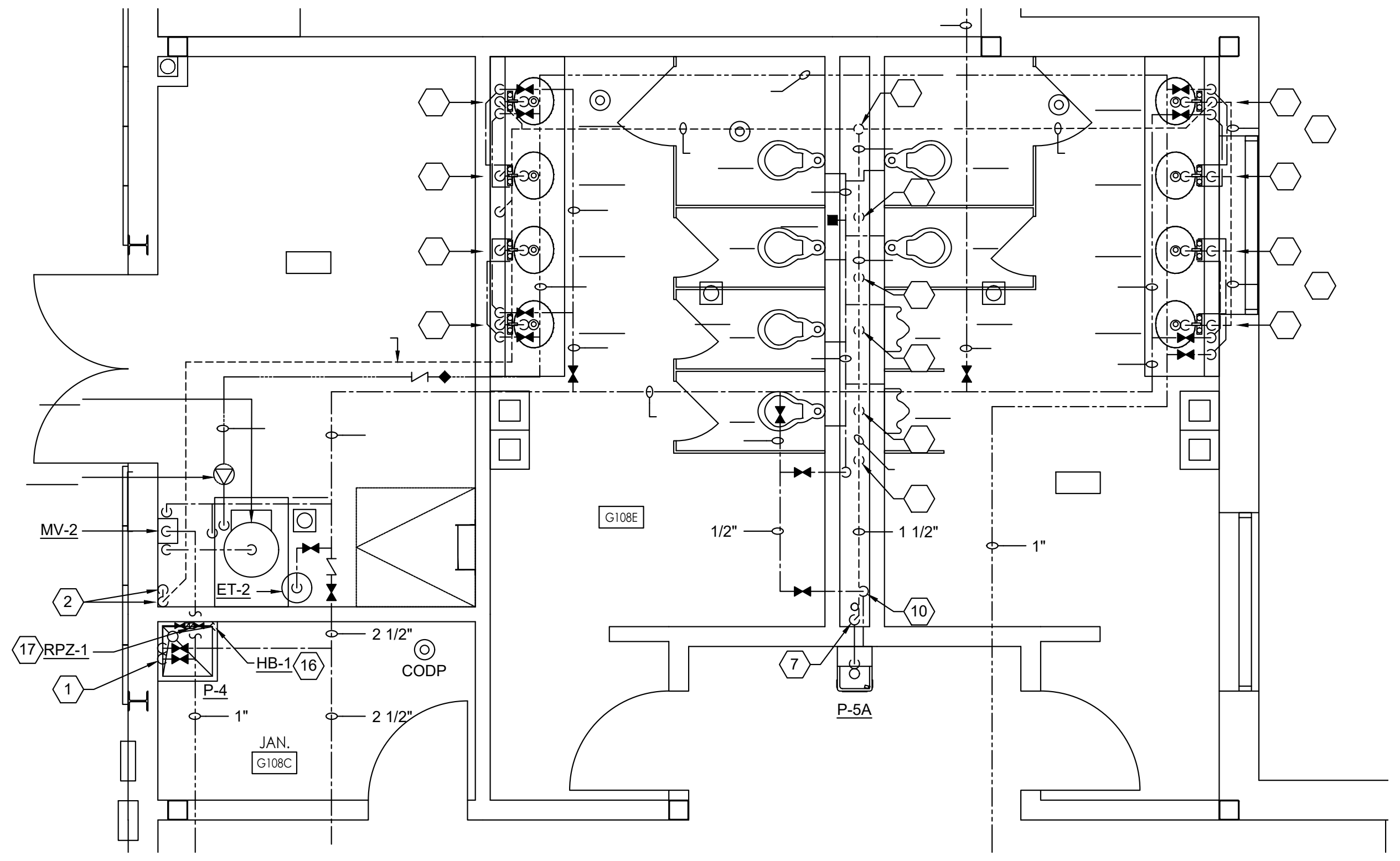
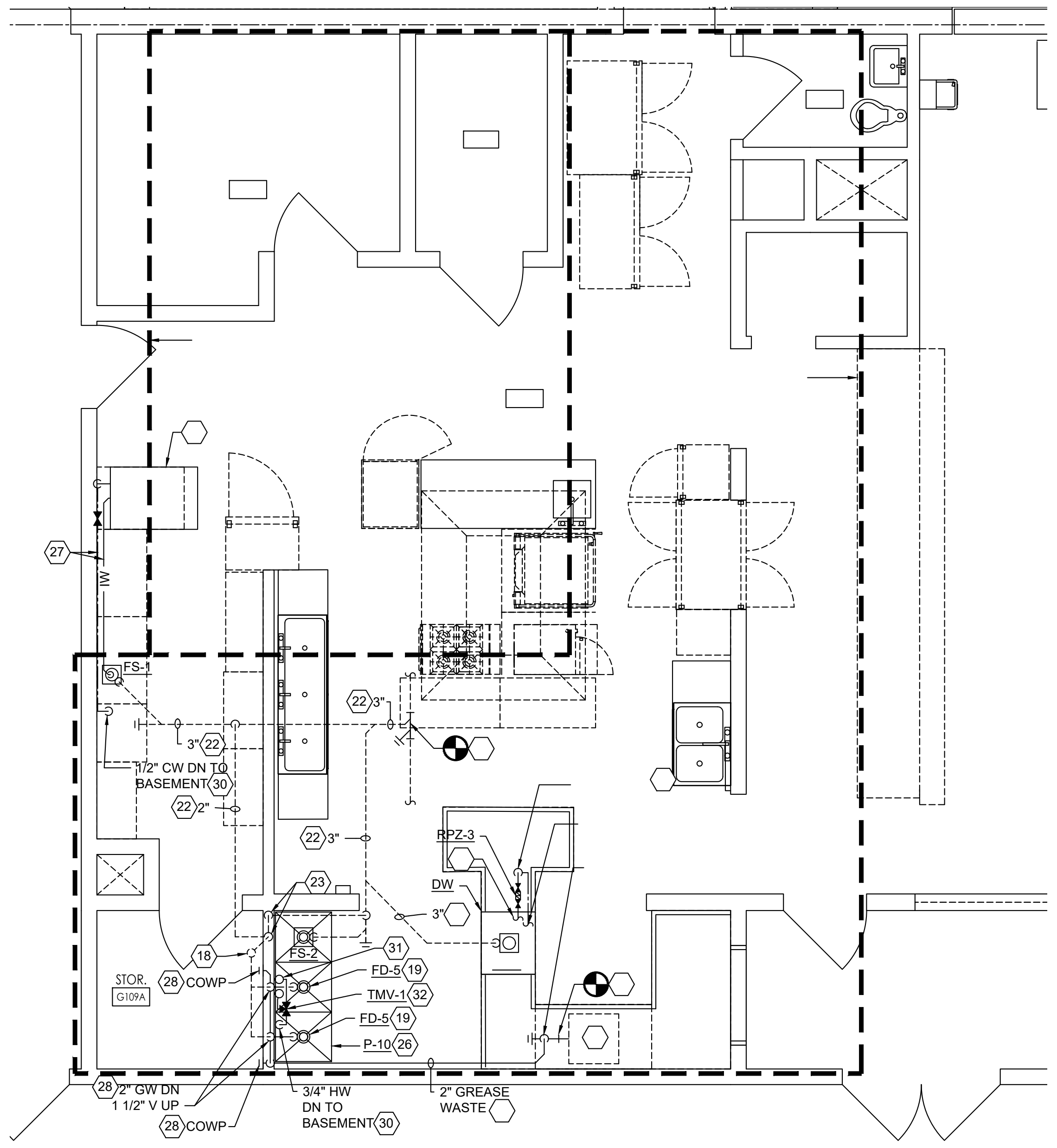
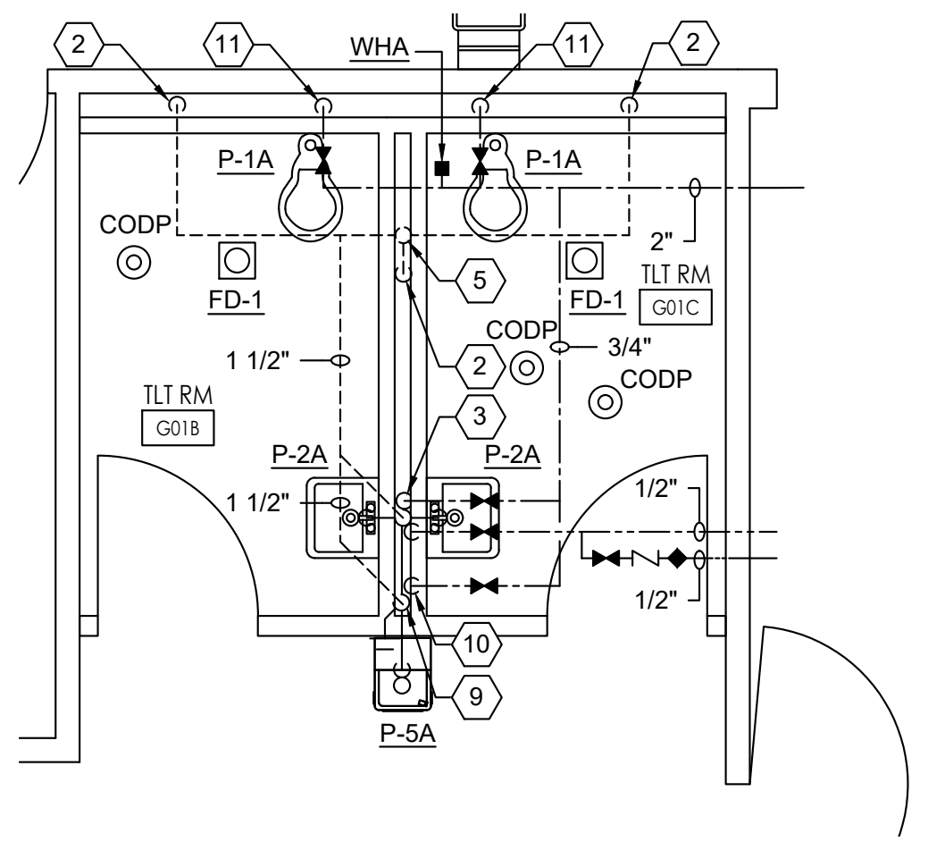


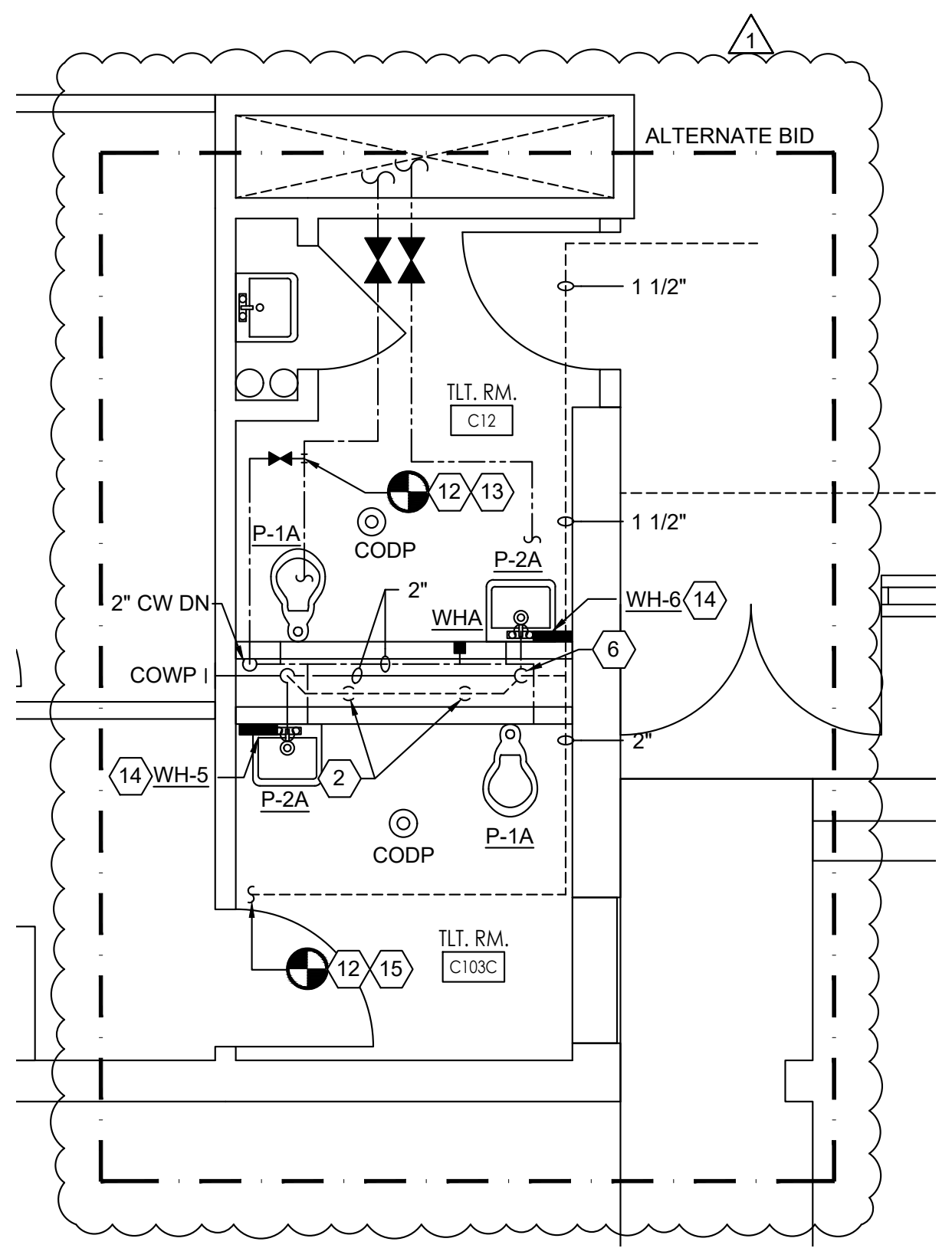
PART PLAN - G108C, G108D, G108E, G108F
SCALE: 1/4" = 1'-0"



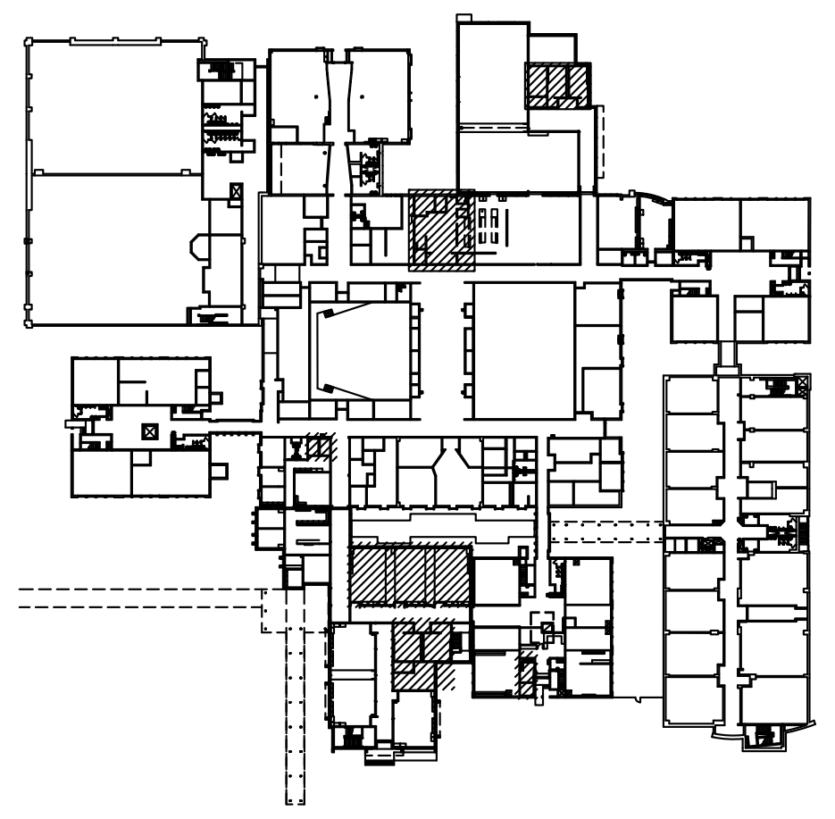
PART PLAN - G109
SCALE: 1/4" = 1'-0"

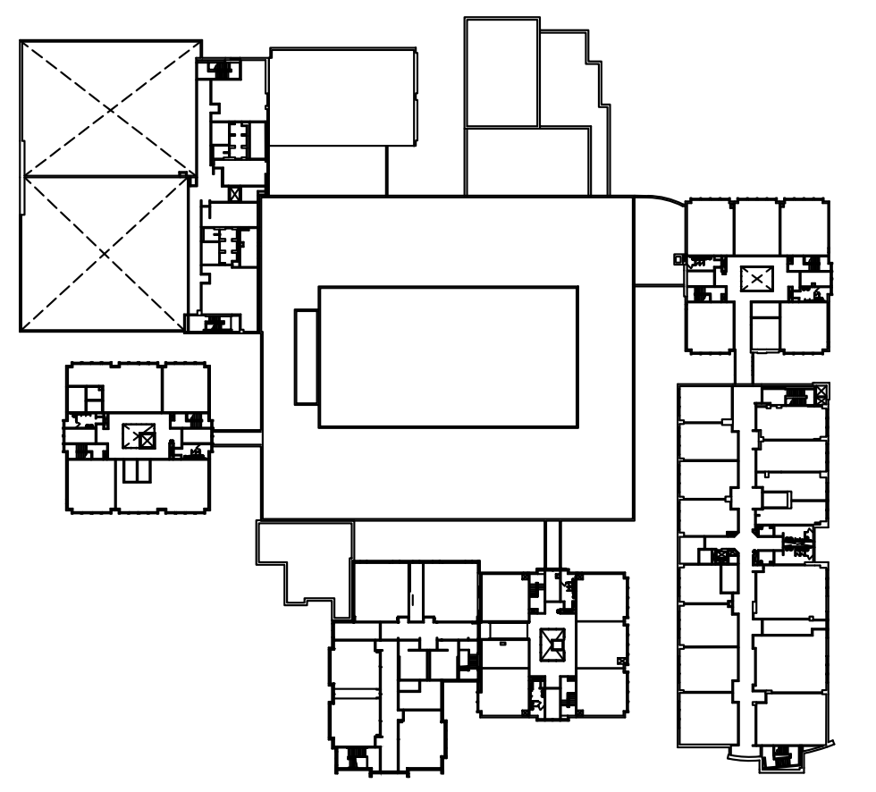


PART PLAN - G01B, G01C
SCALE: 1/4" = 1'-0"



PART PLAN - C12, C103C
SCALE: 1/4" = 1'-0"





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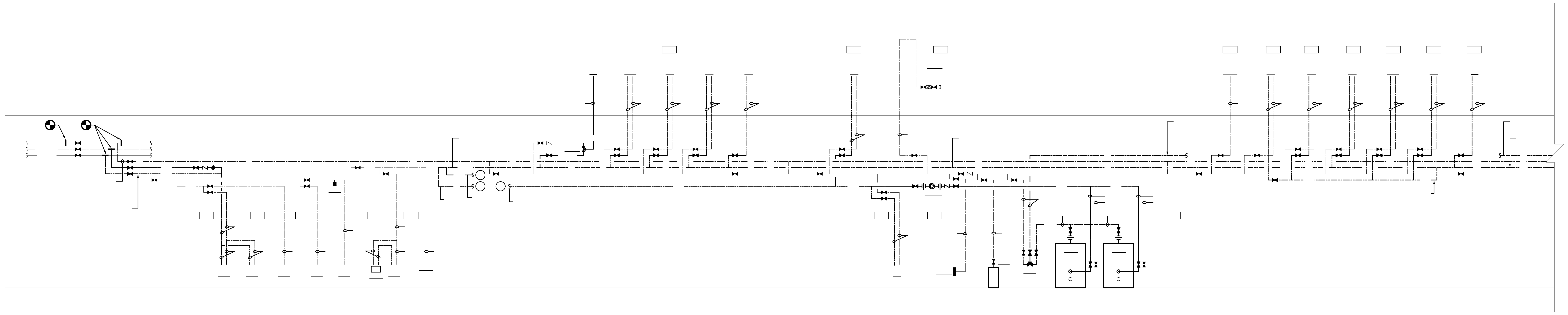
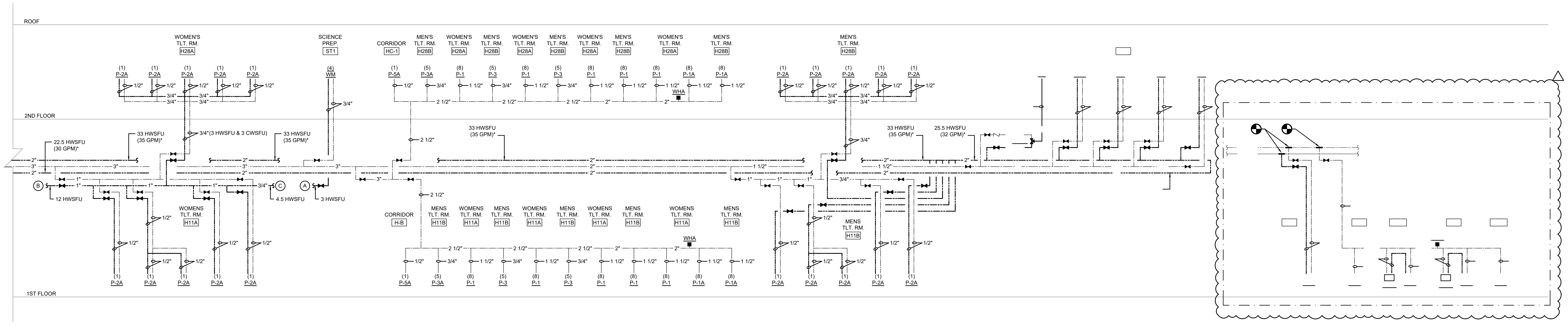


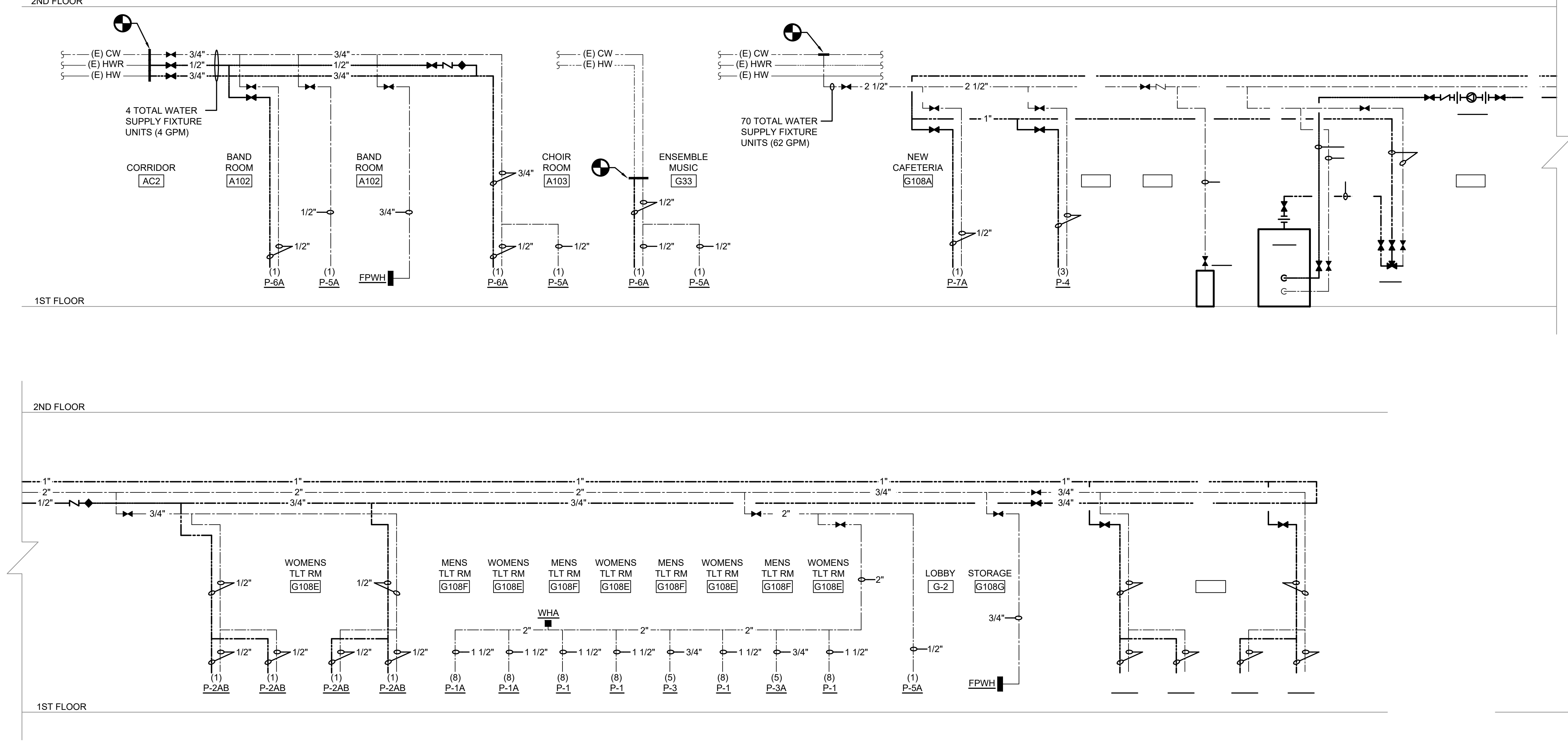


DOMESTIC WATER RISER DIAGRAM - BLOCK A

NOT TO SCALE

FAUCETS SHALL BE INSTALLED WITH AIR GAPS PER NSPC 10.5.1, FROST PROOF WALL HYDRANTS SHALL BE SUPPLIED WITH BUILT IN VACUUM BREAKERS AND FLUSHOMETERS SHALL BE SUPPLIED WITH BUILT IN VACUUM BREAKERS INSTALLED IN COMPLIANCE WITH NSPC 10.5.5

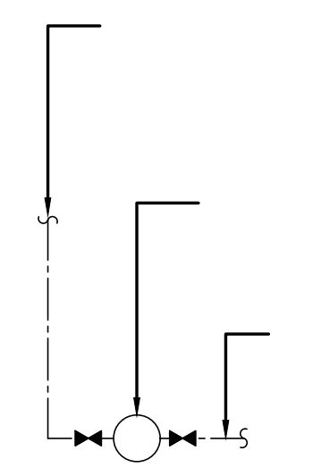
* DENOTES 15 GPM EMERGENCY SHOWER ALLOWANCE ADDED TO HOT WATER SUPPLY FIXTURE UNIT (HWSFU) VALUES AND 25 GPM EMERGENCY SHOWER ALLOWANCE ADDED TO COLD WATER SUPPLY FIXTURE UNIT VALUES FOR PIPE LINE SIZES



DOMESTIC WATER RISER DIAGRAM - BLOCK B

NOT TO SCALE

FAUCETS SHALL BE INSTALLED WITH AIR GAPS PER NSPC 10.5.1, FROST PROOF WALL HYDRANTS SHALL BE SUPPLIED WITH BUILT IN VACUUM BREAKERS AND FLUSHOMETERS SHALL BE SUPPLIED WITH BUILT IN VACUUM BREAKERS INSTALLED IN COMPLIANCE WITH NSPC 10.5.5



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◪		— —	
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VD ┌─	VOLUME DAMPER	─⧓─	SHUT-OFF VALVE
FD ▷─	FIRE DAMPER AND ACCESS DOOR	─▽─	BALANCE VALVE
M ─	MOTOR OPERATED DAMPER	─⋈─	THROTTLING VALVE
─U→	UNDERCUT DOOR	M ─⧓─	MOTOR OPERATED VALVE, THREE WAY
─L→	LOUVERED DOOR	M ─⧓─	MOTOR OPERATED VALVE, TWO WAY
Ⓣ	THERMOSTAT	─N─	CHECK VALVE
Ⓢ	SENSOR	─▾─	GAS COCK
Ⓗ	HUMIDISTAT	─||─	UNION
SD	DUCT SMOKE DETECTOR	─⋎─	STRAINER WITH BLOWDOWN
C2	CO2 DETECTOR	↗	RELIEF VALVE
◕	CONNECT TO EXISTING	⌀	PRESSURE GAUGE
GN	NATURAL GAS DETECTOR	▯	THERMOMETER
CN	CO / NOX COMBINATION DETECTOR	⊓	AUTOMATIC FLOW CONTROL VALVE - B&G CIRCUIT SETTER OR EQUAL
◑	POINT OF DISCONNECTION	▭	HVAC UNIT (SEE PLANS AND SCHEDULES) HVAC UNIT CLEARANCE

MECHANICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
AD	ACCESS DOOR	MOD	MOTOR OPERATED DAMPER
ATC	AUTOMATIC TEMPERATURE CONTROLS	OA	OUTDOOR AIR
BDD	BACKDRAFT DAMPER	OAI	OUTDOOR AIR INTAKE
BMS	BUILDING MANAGEMENT SYSTEM	OC	ON CENTER
BOD	BOTTOM OF DUCT	OED	OPEN ENDED DUCT
BOP	BOTTOM OF PIPE	PC	PLUMBING CONTRACTOR
CD	CEILING DIFFUSER	RA	RETURN AIR
CO	CLEANOUT	RP	RADIANT PANEL
CFM	CUBIC FEET PER MINUTE	RR	RETURN GRILLE
D	DIAMETER	RR	RETURN REGISTER
E	EXISTING	SA	SUPPLY AIR
EA	EXHAUST AIR	SG	SUPPLY GRILLE
EC	ELECTRICAL CONTRACTOR	SR	SUPPLY REGISTER
EG	EXHAUST GRILLE	TD	TRANSFER DUCT
EG	EXHAUST REGISTER	TG	TRANSFER GRILLE
FO	FLAT OVAL	WMS	WIRE MESH SCREEN
IOM	INSTALLATION AND OPERATION MANUAL	WR	WALL REGISTER

APPLICABLE CODES:

ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST CODES AND SUBCODES AS ADOPTED BY THE STATE OF NEW JERSEY:

- NEW JERSEY UNIFORM CONSTRUCTION CODE (NJUCC)
- REHABILITATION SUBCODE 5:23-6
- ADMINISTRATIVE CODE: TITLE 6
- 2021 INTERNATIONAL BUILDING CODE - NJ EDITION
- 2020 NATIONAL ELECTRICAL CODE
- 2021 NATIONAL STANDARD PLUMBING CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2021 INTERNATIONAL FUEL GAS CODE
- 2019 ASHRAE 90.1 ENERGY CONSERVATION CODE
- 2019 NFPA 13
- REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION

DOCUMENTS AND RELATED PLUMBING, ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL, INTERIOR DECOR AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER PRIOR TO BID SUBMISSION.

12. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING HIS BID FOR THE PROPOSED WORK. HE SHALL BE RESPONSIBLE TO VERIFY FIELD CONDITIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMISSION OF BIDS IN WRITING.
13. THE MECHANICAL CONTRACTOR SHALL REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED PLUMBING, ELECTRICAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, THE MECHANICAL CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS AND TRADES ON THIS PROJECT TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
14. THE MECHANICAL CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS PERTAINING TO THE HVAC SYSTEMS. MECHANICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIAL, PARTS, SUPPLIES AND LABOR TO BALANCE ALL HVAC EQUIPMENT TO OWNER'S SATISFACTION.
15. CONTRACTOR SHALL COORDINATE HIS SCHEDULING WITH THE OWNER AND GENERAL CONTRACTOR TO COMPLY WITH THE OWNERS USAGE OF THE BUILDING.
16. IF ANY UNEXPECTED DISCOVERY OF SUSPECTED HAZARDOUS MATERIALS IS MADE DURING THE COURSE OF WORK, THE CONTRACTOR SHALL REPORT THE DISCOVERY IMMEDIATELY TO THE OWNER. THE CONTRACTOR SHALL STOP ANY WORK THAT MAY DISTURB THE SUSPECTED HAZARDOUS MATERIAL. CONTRACTOR SHALL RESUME WORK AFTER ALL HAZARDOUS MATERIAL HAS BEEN REMEDIATED.
17. CONTRACTOR RESPONSIBLE FOR THE PROPER CARE OF ALL OWNER'S EQUIPMENT AND/OR FURNISHINGS WHICH ARE REQUIRED TO BE TEMPORARILY REMOVED, STORED OR RELOCATED. CONTRACTOR SHALL REPLACE, REPAIR OR REIMBURSE OWNER FOR ALL DAMAGES TO SUCH PROPERTIES AT FULL REPLACEMENT VALUE AND EQUIVALENCY. CONTRACTOR SHALL ADVISE OWNER FOR DISPOSITION OF REMOVED EQUIPMENT AND/OR MATERIALS.
18. CONTRACTOR'S WORK MAY BE REQUIRED OUTSIDE OF DESIGNATED SPACE. ALL SYSTEMS BEING DEMOLISHED AND REMOVED, MODIFIED, AND/OR TERMINATED SHALL BE FIELD VERIFIED TO INSURE NO WORK PERFORMED, INSIDE OR OUTSIDE OF THE DESIGNATED SPACE, SHALL DISRUPT ANY SERVICE OR SYSTEMS OF ANY OTHER AREAS. IF ANY CONDITIONS ARISE THAT ARE NOT IDENTIFIED ON DRAWINGS, IMMEDIATE NOTIFICATION SHALL BE PROVIDED TO THE ENGINEER OR OWNER. NO WORK SHALL PROCEED WITHOUT APPROVALS FROM ENGINEER OR OWNER.
19. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY HAVE TO BE ADAPTED TO COMPLY WITH EXISTING BUILDING CONDITIONS. CONTRACTOR SHALL SUBMIT HVAC SHOP DRAWINGS, INDICATING LOCATIONS, AND ROUTING OF DUCTS, PIPING, AND WIRING.
20. DUCTING AND PIPING SHOWN ON DRAWINGS SHOW THE GENERAL RUN AND CONNECTIONS AND MAY OR MAY NOT IN ALL PARTS BE SHOWN IN ITS EXACT POSITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING THE DUCTING/PIPING SUITABLE IN EVERY RESPECT FOR THE WORK. DUCTWORK/PIPING SHALL BE INSTALLED SO THAT ACCESS, CLEARANCE, HEADROOM AND PITCH ARE MAINTAINED. CONTRACTORS OF THE VARIOUS TRADES SHALL COORDINATE THE INSTALLATION. MECHANICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS FOR CHASE AND SOFFIT LOCATIONS TO COORDINATE ALL EXPOSED DUCTWORK & PIPE ROUTING.
21. ALL CONTRACTORS SHALL PROVIDE CUTTING AND PATCHING FOR THEIR RESPECTIVE TRADES.
22. REMOVE AND REINSTALL CEILING SYSTEM AS REQUIRED FOR THE INSTALLATION OF MECHANICAL WORK AND REPLACE IN KIND ANY COMPONENTS DAMAGED BY PERSONNEL OR EQUIPMENT DURING PERFORMANCE OF THE WORK. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL, MATCH EXISTING ADJACENT SURFACES.
23. ALL MECHANICAL EQUIPMENT AND APPLIANCES SHALL BEAR THE LABEL OF AN APPROVING AGENCY. LISTING AND LABELING AGENCY QUALIFICATIONS: A "NATIONALLY RECOGNIZED TESTING LABORATORY" AS DEFINED IN THE INTERNATIONAL MECHANICAL CODE, LATEST ADOPTED EDITION.
24. ALL PENETRATIONS THRU FIRE RATED WALLS, FLOORS, AND CEILINGS SHALL BE SEALED WITH A UL APPROVED FIRESTOP MATERIAL SUITABLE FOR CONSTRUCTION MATERIAL TO MAINTAIN FIRE, SMOKE, AND DRAFT INTEGRITY OF STRUCTURE. FIRE RESISTANT SEALER SHALL BE TESTED IN ACCORDANCE WITH ASTM E84. INSTALL SEALANT, INCLUDING FOAMING, PACKING AND OTHER ACCESSORY MATERIALS TO FILL OPENINGS WHERE FIRE-RATED WALL PENETRATIONS OCCUR. COMPLY WITH INSTALLATION REQUIREMENTS ESTABLISHED BY TESTERS AND INSPECTION AGENCY.
25. ALL CONTRACTORS REMOVING OR RELOCATING ANY EQUIPMENT, PIPES, DUCTS, CONDUITS, ETC SHALL PATCH ALL SURFACES DISTURBED BY THIS WORK TO MATCH ADJACENT SURFACES.
26. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER HANDLING, DISPOSAL & ASSOCIATED COSTS OF ALL REFRIGERANT MATERIAL, DURING THIS CONTRACT, IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND/OR REGULATIONS.
26. UPON AWARD OF CONTRACT AND SUBSEQUENT REVIEW & RELEASE OF BOILER SHOP DRAWINGS BY ENGINEER OF RECORD, THE CONTRACTOR SHALL FILL OUT AND FILE AIR PERMIT APPLICATIONS REPORT IN A TIMELY MANNER FOR ALL BOILERS. THE CONTRACTOR SHALL ALSO FILL OUT AND FILE INSTALLER/SERVICE VERIFICATION OF FUNCTION TESTING AND OPERATION OF CONTROLS AND SAFETY DEVICES FOR ALL BOILERS. THE CONTRACTOR SHALL PAY ALL FEES FOR THE PERMITS AND INSPECTIONS. PROVIDE THE OWNER AND ENGINEER EACH WITH A COPY OF FILLED OUT FORMS PRIOR TO MAILING. CONTRACTOR MUST SECURE PERMIT PRIOR TO PROJECT CLOSEOUT. SEND FORMS ALONG WITH NJDEP'S REQUIRED FEE TO: NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY BUREAU OF SOURCE REVIEW, CN-27, TRENTON, NEW JERSEY 08625-0027.
33. ALL SPACE SENSORS; IE. TEMPERATURE, CARBON DIOXIDE, HUMIDITY, ETC., SHALL BE MOUNTED AT 48" AFF TO MEET ADA REQUIREMENTS. COORDINATE THE LOCATION OF THERMOSTAT WITH OTHER TRADE.

    PROVIDE TAMPER PROOF COVERS FOR ALL TEMPERATURE SENSORS. PROVIDE TG500 SERIES VENTED GUARD, CLEAR; OR ENGINEER APPROVED EQUAL, ON ALL TEMPERATURE SENSORS. AVAILABLE FROM WWW.KELE.COM, 888-397-5353.
34. PROVIDE GAS PIPING SUPPORTS ON ROOF AT ALL DIRECTION CHANGES AND STRAIGHT RUNS WITH SPACING NOT EXCEEDING LENGTHS STATED IN TABLE 415.1 OF IFGC,
    LISTED PIPE SIZES. SUPPORTS SHALL BE SADDLE BLOCK ROLLER TYPE WITH PIPE SECURED TO STAND WITH CLAMP OR METAL BAND. SUPPORT SHALL NOT BE SECURED TO ROOF SURFACE. BOTTOM OF PIPING SHALL BE MINIMUM 3 1/2" ABOVE ROOF SURFACE.
35. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS OR SOFFITS WITH OTHER PLUMBING/ ELECTRICAL FEEDS.
    ARCHITECTURAL DRAWINGS FOR CHASE & SOFFIT LOCATIONS TO COORDINATE ALL EXPOSED PIPING ROUTING. PROVIDE PIPE ENCLOSURE FOR ALL EXPOSED PIPING LOCATED OUTSIDE THE MECHANICAL ROOM. ALL SUCH LOCATIONS SHALL BE REVIEWED WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
    MINIMUM 2 COATS MARINE GRADE EPOXY PRIMER AND 2 COATS OF INTERIOR/EXTERIOR GRADE PAINT. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
36. ALL PIPING SHALL BE ORGANIZED NEATLY AND KEPT TIGHT TO WALLS AND CEILING
37. FURNISH AND INSTALL PIPE SLEEVES OR SLEEVE SEAL SYSTEMS AS REQUIRED. SEE SPECIFICATION FOR DETAILS.
38. GRAVITY CONDENSATE PIPING SHALL BE PITCHED MINIMUM 1/8" PER FOOT.
40. ALL CONDENSATE DRAIN PIPING CONNECTION TO CONDENSATE DRAIN RISERS SHALL BE PROVIDED WITH WYE TYPE FITTINGS.
41. ALL DUCTWORK SHALL BE CONNECTED TO MOTORIZED EQUIPMENT WITH FLEXIBLE DUCT CONNECTORS.
42. ALL RIGID DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET STEEL. FABRICATION OF DUCTWORK AND INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS AND RECOMMENDATIONS.
43. ALL DUCTWORK SIZES SHOWN ON DRAWINGS ARE CLEAR INTERNAL DIMENSIONS.
44. ALL INTERIOR DUCTWORK SHALL HAVE DUCT LINER. SEE SPECIFICATION FOR DETAILS.
45. ALL INTERIOR DUCTWORK EXPOSED WITHIN FINISHED SPACES SHALL BE FACTORY FABRICATED DOUBLE WALLED SPIRAL SEAM WITH INTERSTITIAL INSULATION. SEE SPECIFICATION FOR DETAILS.
    DUCTWORK SHALL HAVE STICKERS AND LABELS REMOVE AND PREPARED FOR PAINT. PAINT ALL EXPOSED INDOOR DUCTWORK, REGISTERS/DIFFUSERS, HANGER AND SUPPORTS. PROVIDE MINIMUM 2 COATS PRIMER AND 2 COATS OF INTERIOR GRADE PAINT. COORDINATE WITH ARCHITECT FOR COLOR SELECTION.
46. ALL INTERIOR DUCTWORK CONCEALED OR EXPOSED IN NON-FINISHED AREA, EG ATTIC, ABOVE CEILING, ETC. SHALL BE SINGLE WALLED SPIRAL SEAM EXTERNALLY INSULATED WITH FLEXIBLE DUCTWRAP AND VAPOR BARRIER. SEE SPECIFICATIONS FOR DETAILS.
47. ALL FLEXIBLE DUCTWORK SHALL BE CLASS I, LABELED UL 181. SEE SPECIFICATIONS FOR DETAILS.
    DUCTWORK SHALL NOT BE ACCEPTABLE FOR NEGATIVE PRESSURE APPLICATIONS. FLEXIBLE DUCTWORK SHALL NOT BE ACCEPTABLE FOR NEGATIVE PRESSURE APPLICATION. FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0".
48. ALL EXTERIOR DUCTWORK SHALL HAVE DUCT LINER AND EXTERNAL RIGID INSULATION AND BE COVERED WITH SELF ADHERING PREFABRICATED PROTECTIVE MEMBRANE THAT IS UV AND OZONE RESISTANT. THIS JACKETING SHALL BE FIELD APPLIED IN ACCORDANCE
    SPECIFICATION FOR DETAILS.
49. DURING THE INSTALLATION OF MECHANICAL EQUIPMENT AND ASSOCIATED SYSTEMS, THE CONTRACTOR SHALL IDENTIFY ANY DAMAGE TO FIREPROOFING MATERIAL CAUSED BY WORK OF THE TRADE. THE CONTRACTOR SHALL PROVIDE WRITTEN REPORT DESIGNATION LOCATIONS, TO GENERAL CONTRACTOR, BEFORE FIREPROOFING IS COVERED BY SUBSEQUENT CONSTRUCTION.
50. THE MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE SET OF "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT, DUCTWORK, PIPING AND ACCESS DOORS. THESE PLANS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM BID DOCUMENTS.
51. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE SHALL BE LOCATED AT A MINIMUM OF 10'-0" FROM ROOF'S EDGE. GUARDS SHALL BE PROVIDED FOR EQUIPMENT LOCATED WITHIN 10'-0" OF ROOF EDGE. THE GUARDS SHALL BE NOT LESS THAN 42 INCHES IN HEIGHT AND SHALL EXTEND NOT LESS THAN 10'-0" BEYOND EACH END COMPONENT OF EQUIPMENT THAT REQUIRES SERVICE.
52. AFTER COMPLETING SYSTEM INSTALLATION, TESTING, ADJUSTING, AND BALANCING UNIT AND AIR-DISTRIBUTION SYSTEMS, CLEAN FILTER HOUSINGS AND PROVIDE NEW FILTERS FOR ALL HVAC EQUIPMENT. EQUIPMENT THAT REQUIRE FILTER CHANGE INCLUDE BUT NOT LIMITED TO: PACKAGED ROOF TOP UNITS, ENERGY RECOVERY UNITS, ENERGY RECOVERY VENTILATORS, DUCTED INDOOR HEAT PUMPS, FAN COIL UNITS, CASSETTE TYPE HEAT PUMPS, AIR HANDLING UNITS, UNIT VENTILATORS AND FAN POWERED VARIABLE AIR VOLUME TERMINAL UNITS.

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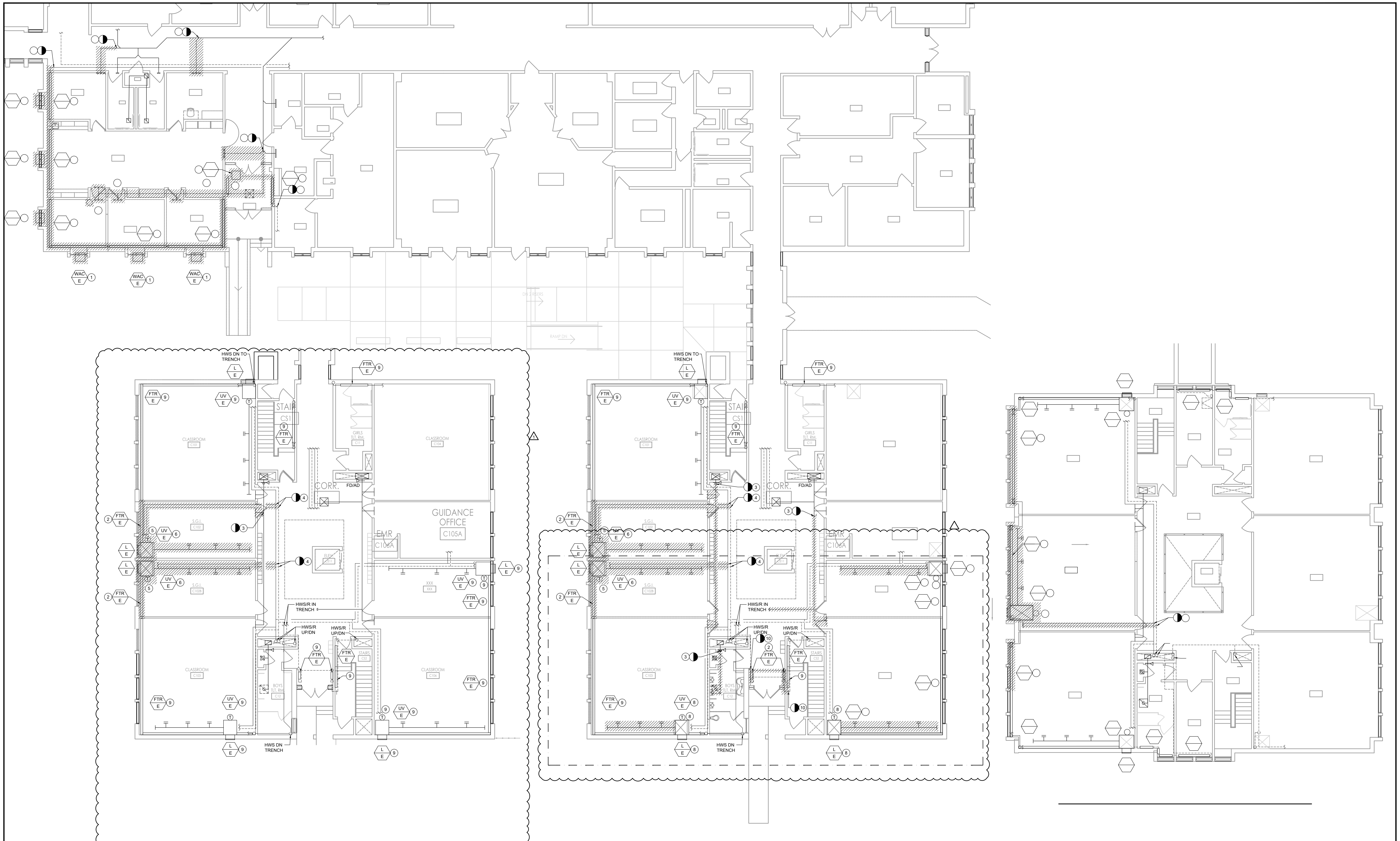


FIRST FLOOR DEMOLITION PLAN - BLOCK A - BASE BID

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

FIRST FLOOR DEMOLITION PLAN - BLOCK A

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

DEMOLITION KEY NOTES

① REMOVE AND DISCARD EXISTING WINDOW AIR CONDITIONING UNIT, SUPPORTS AND ALL ASSOCIATED ACCESSORIES. PROVIDE NEW PANEL TO MATCH EXISTING ADJACENT GLASS PANEL, FIELD VERIFY THE EXACT DIMENSION OF NEW GLASS PANEL. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

② REMOVE AND DISCARD EXISTING FIN TUBE, FIN TUBE COVER, SUPPORTS AND ALL ASSOCIATED ACCESSORIES. EXISTING HWS/R, VALVES, SUPPORTS, ETC. TO BE REMOVED AS SHOWN AND MAKE READY FOR CONNECTION TO NEW. SEE NEW WORK FLOOR PLAN FOR ADDITIONAL INFORMATION. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

③ REMOVE AND DISCARD THAT PORTION OF EXISTING DUCTWORK INCLUDING DAMPERS, SUPPORTS AND ALL ASSOCIATED ACCESSORIES AS SHOWN. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION. SEAL REMAINING DUCTWORK AIRTIGHT. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

④ REMOVE AND DISCARD THAT PORTION OF EXISTING HWS/R PIPING INCLUDING VALVES, SUPPORTS AND ALL ASSOCIATED ACCESSORIES AS SHOWN AND CAP. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

⑤ REMOVE AND DISCARD EXISTING THERMOSTAT, CONTROL WIRING/TUBING, ETC. PROVIDE BLANK COVER PLATE. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

⑥ REMOVE AND DISCARD EXISTING UNIT, OA LOUVER, INSULATED PANEL, DUCTWORK, DAMPERS, REGISTERS/DIFFUSERS, THERMOSTAT, CONDENSATE PIPING THRU WALL, SUPPORTS AND ALL ASSOCIATED ACCESSORIES. REMOVE EXISTING HWS&R BACK TO RESPECTIVE MAINS AND CAP. PATCH AND INFILL ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

⑦ REMOVE AND DISCARD EXISTING CABINET UNIT HEATER, THERMOSTAT, SUPPORTS AND ALL ASSOCIATED ACCESSORIES. REMOVE PIPING BACK TO RESPECTIVE MAINS AND CAP. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

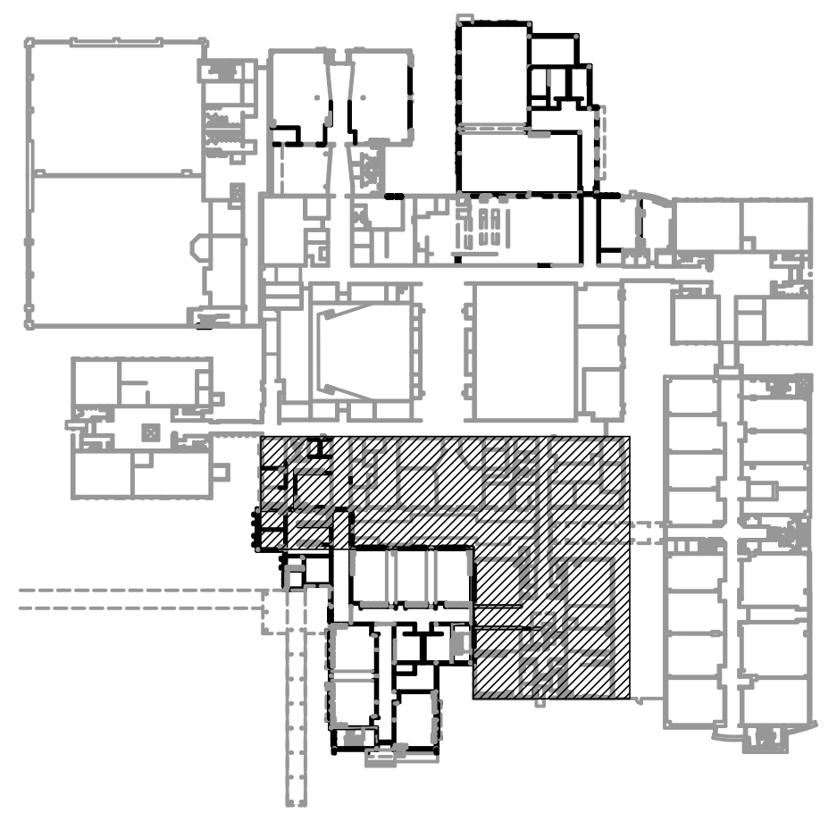
⑧ EXISTING UNIT VENTILATOR, LOVER TO REMAIN. REMOVE AND DISCARD THE EXISTING DUCTWORK, SUPPORTS, AND ALL ASSOCIATED ACCESSORIES. MAKE THE MAIN SUPPLY CONNECTION READY FOR NEW. REMOVE AND RELOCATE THE EXISTING T-STAT FOR NEW LOCATION. MODIFY AND EXTEND EXISTING CONTROL WIRING AS REQUIRED FOR RELOCATION. SEE NEW WORK PLAN FOR ADDITIONAL INFORMATION. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

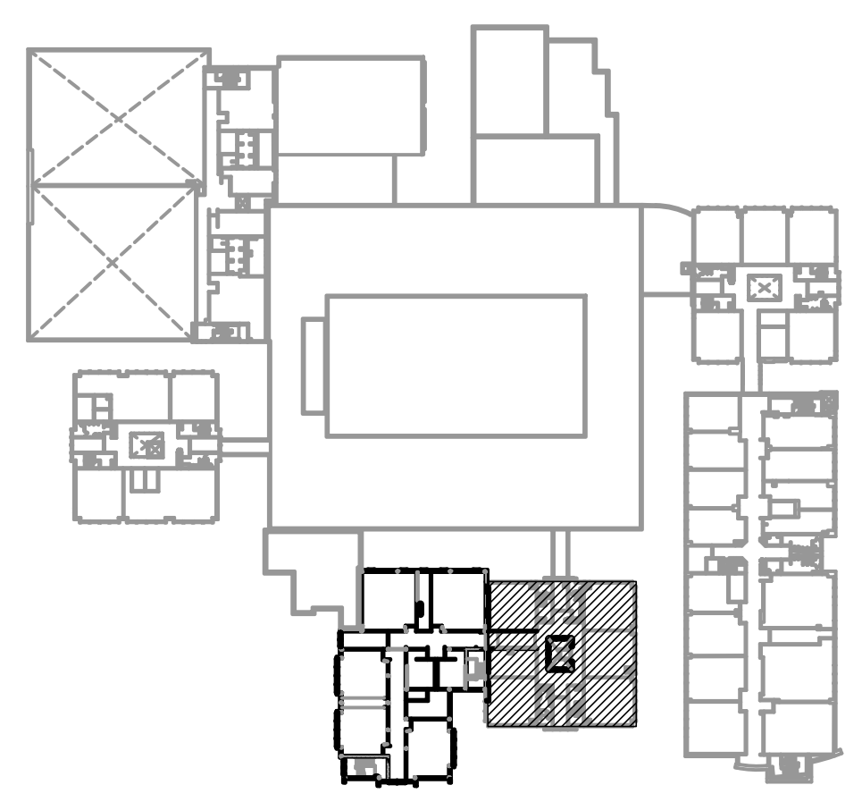
⑨ EXISTING TO REMAIN.

⑩ REMOVE AND DISCARD THAT PORTION OF EXISTING HWS/R PIPING INCLUDING VALVES, SUPPORTS AND ALL ASSOCIATED ACCESSORIES AS SHOWN AND PREPARE FOR NEW CONNECTION IN TRENCH. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

SHEET NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR NOTES AND DETAILS PERTAINING TO ROOFING, STRUCTURAL, GENERAL CONSTRUCTION, ETC.
2. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITIES . AVOID CONFLICTS WITH OTHER TRADES AND EXISTING CONDITIONS. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITIES AND MARK OUT THEIR LOCATIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL CONTRACT THE SERVICES OF A PRIVATE UTILITY LOCATOR COMPANY TO MARK OUT ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA PRIOR TO COMMENCING ANY WORK AND PROVIDE EXISTING CONDITIONS PLAN TO THE OWNER AND ENGINEER.
3. REMOVE AND REINSTALL CEILING SYSTEM AS REQUIRED FOR THE INSTALLATION OF MECHANICAL WORK AND REPLACE IN KIND ANY COMPONENTS DAMAGED BY PERSONNEL OR EQUIPMENT DURING PERFORMANCE OF THE WORK. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL, MATCH EXISTING ADJACENT SURFACES.
4. PROVIDE AND INSTALL METAL PIPE ENCLOSURE SYSTEM ON ALL EXPOSED PIPING. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL SPACE SENSORS; IE. TEMPERATURE, CARBON DIOXIDE, HUMIDITY, ETC., SHALL BE MOUNTED AT 48" AFF TO MEET ADA REQUIREMENTS. COORDINATE THE FINAL LOCATION OF ALL SPACE SENSORS WITH OTHER TRADE. PROVIDE TAMPER PROOF COVERS FOR ALL TEMPERATURE SENSORS. PROVIDE TG500 SERIES VENTED GUARD, CLEAR; OR ENGINEER APPROVED EQUAL, ON ALL SPACE SENSORS.
6. ALL EXISTING EQUIPMENT TO REMAIN SHALL BE PROTECTED THROUGH ALL PHASES OF CONSTRUCTION. UPON COMPLETION OF ALL PHASES OF CONSTRUCTION, CONTRACTOR SHALL CLEAN UNIT, ALL COILS AND REPLACE FILTERS.
7. IF UNITS ARE RUNNING DURING ANY PHASE OF CONSTRUCTION CONTRACTOR SHALL REPLACE FILTERS WEEKLY.





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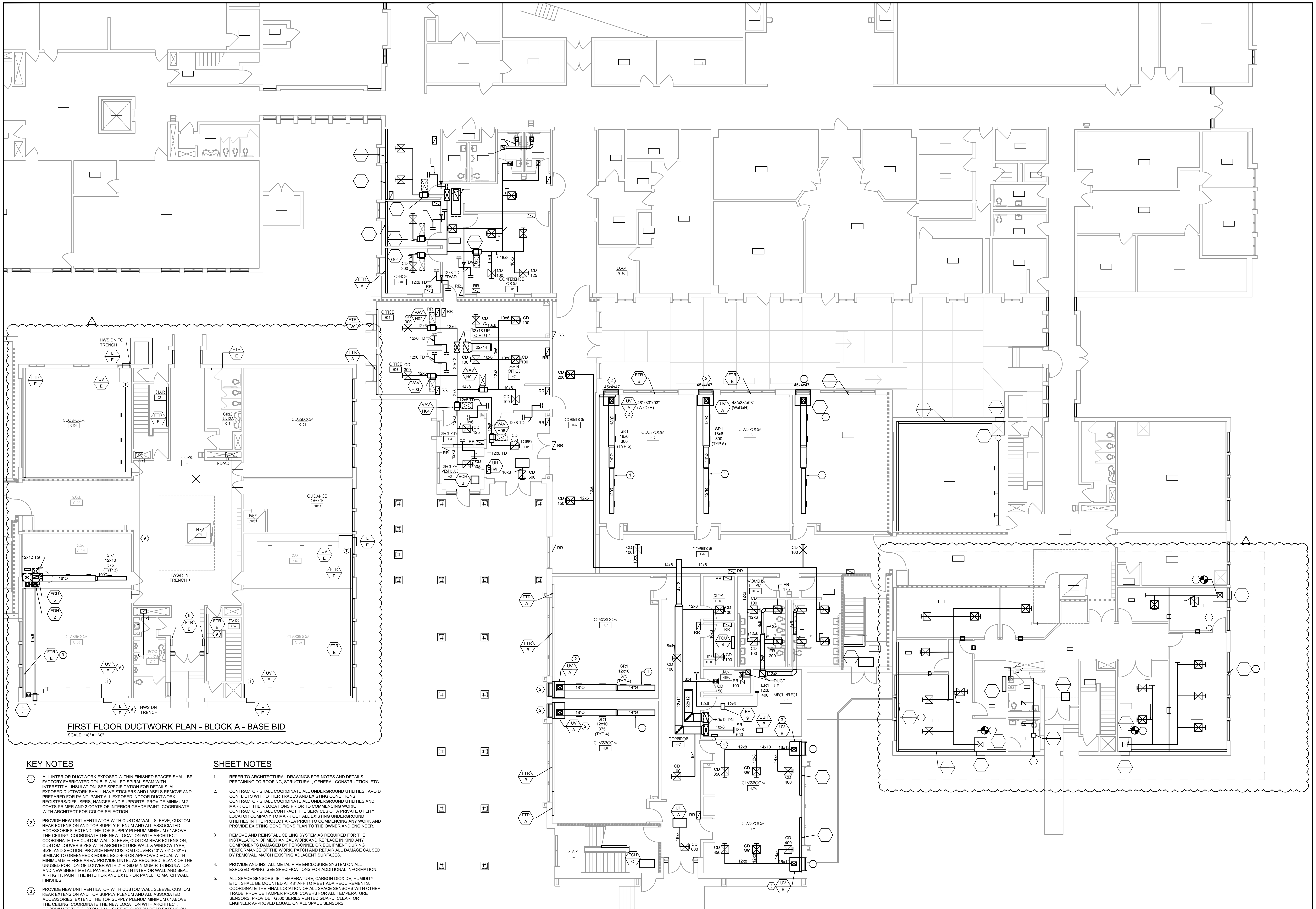


FIRST FLOOR DUCTWORK PLAN - BLOCK A - BASE BID

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

FIRST FLOOR DUCTWORK PLAN - BLOCK A

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

KEY NOTES

① ALL INTERIOR DUCTWORK EXPOSED WITHIN FINISHED SPACES SHALL BE FACTORY FABRICATED DOUBLE WALLED SPIRAL SEAM WITH INTERSTITIAL INSULATION. SEE SPECIFICATION FOR DETAILS. ALL EXPOSED DUCTWORK SHALL HAVE STICKERS AND LABELS REMOVE AND PREPARED FOR PAINT. PAINT ALL EXPOSED INDOOR DUCTWORK, REGISTERS/DIFFUSERS, HANGER AND SUPPORTS. PROVIDE MINIMUM 2 COATS PRIMER AND 2 COATS OF INTERIOR GRADE PAINT. COORDINATE WITH ARCHITECT FOR COLOR SELECTION.

② PROVIDE NEW UNIT VENTILATOR WITH CUSTOM WALL SLEEVE, CUSTOM REAR EXTENSION AND TOP SUPPLY PLENUM AND ALL ASSOCIATED ACCESSORIES. EXTEND THE TOP SUPPLY PLENUM MINIMUM 6" ABOVE THE CEILING. COORDINATE THE NEW LOCATION WITH ARCHITECT. COORDINATE THE CUSTOM WALL SLEEVE, CUSTOM REAR EXTENSION, CUSTOM LOUVER SIZES WITH ARCHITECTURE WALL & WINDOW TYPE, SIZE, AND SECTION. PROVIDE NEW CUSTOM LOUVER (40"W x4"Dx52"H) SIMILAR TO GREENHECK MODEL ESD-403 OR APPROVED EQUAL WITH MINIMUM 50% FREE AREA. PROVIDE LINTEL AS REQUIRED. BLANK OF THE UNUSED PORTION OF LOUVER WITH 2" RIGID MINIMUM R-13 INSULATION AND NEW SHEET METAL PANEL FLUSH WITH INTERIOR WALL AND SEAL AIRTIGHT. PAINT THE INTERIOR AND EXTERIOR PANEL TO MATCH WALL FINISHES.

③ PROVIDE NEW UNIT VENTILATOR WITH CUSTOM WALL SLEEVE, CUSTOM REAR EXTENSION AND TOP SUPPLY PLENUM AND ALL ASSOCIATED ACCESSORIES. EXTEND THE TOP SUPPLY PLENUM MINIMUM 6" ABOVE THE CEILING. COORDINATE THE NEW LOCATION WITH ARCHITECT. COORDINATE THE CUSTOM WALL SLEEVE, CUSTOM REAR EXTENSION, CUSTOM LOUVER SIZES WITH ARCHITECTURE WALL & WINDOW TYPE, SIZE, AND SECTION. PROVIDE CUSTOM NEW LOUVER (39"W x4"Dx47"H) SIMILAR TO GREENHECK MODEL ESD-403 OR APPROVED EQUAL WITH MINIMUM 50% FREE AREA. PROVIDE LINTEL AS REQUIRED. BLANK OF THE UNUSED PORTION OF LOUVER WITH 2" RIGID MINIMUM R-13 INSULATION AND NEW SHEET METAL PANEL FLUSH WITH INTERIOR WALL AND SEAL AIRTIGHT. PAINT THE INTERIOR AND EXTERIOR PANEL TO MATCH WALL FINISHES.

④ ATC PANEL LOCATION. COORDINATE THE EXACT LOCATION IN FIELD WITH OWNER. REFER TO ELECTRICAL DRAWINGS FOR TELE-DATA REQUIREMENT.

⑤ CONNECT TO EXISTING DUCTWORK. PROVIDE TRANSITIONS AS REQUIRED TO MAKE CONNECTION. CONTRACTOR TO SEAL DUCTWORK AIRTIGHT.

⑥ PROVIDE SIDE WALL EXHAUST CAP SIMILAR TO BROAN MODEL 643 OR APPROVED EQUIVALENT WITH INTERNAL BACKDRAFT DAMPER. PROVIDE TRANSITION AS REQUIRED FOR CONNECTION. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

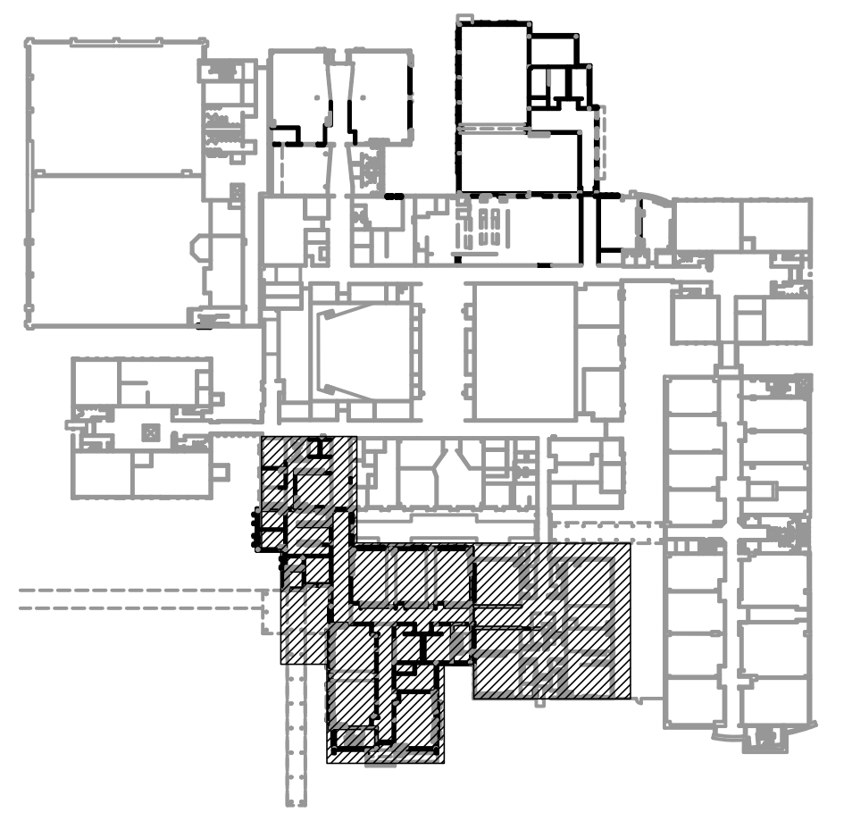
⑦ MODIFY THE EXISTING FIN TUBE RADIATOR ENCLOSURE TO MAINTAIN CAPABILITY OF ENCLOSURE REMOVAL FOR PROPER ACCESS AS REQUIRED FOR INSTALLATION OF NEW WALL PARTITION. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

⑧ CONNECT TO EXISTING SUPPLY CONNECTION TO EXISTING UNIT VENTILATOR. PROVIDE NEW TOP SUPPLY PLENUM TO MATCH THE EXISTING UNIT VENTILATOR FINISH AND EXTEND TO MINIMUM 6" ABOVE THE CEILING. FIELD COORDINATE THE SIZE OF THE EXISTING SUPPLY PLENUM. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

⑨ EXISTING TO REMAIN. 1

SHEET NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR NOTES AND DETAILS PERTAINING TO ROOFING, STRUCTURAL, GENERAL CONSTRUCTION, ETC.
2. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITIES . AVOID CONFLICTS WITH OTHER TRADES AND EXISTING CONDITIONS. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITIES AND MARK OUT THEIR LOCATIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL CONTRACT THE SERVICES OF A PRIVATE UTILITY LOCATOR COMPANY TO MARK OUT ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA PRIOR TO COMMENCING ANY WORK AND PROVIDE EXISTING CONDITIONS PLAN TO THE OWNER AND ENGINEER.
3. REMOVE AND REINSTALL CEILING SYSTEM AS REQUIRED FOR THE INSTALLATION OF MECHANICAL WORK AND REPLACE IN KIND ANY COMPONENTS DAMAGED BY PERSONNEL OR EQUIPMENT DURING PERFORMANCE OF THE WORK. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL, MATCH EXISTING ADJACENT SURFACES.
4. PROVIDE AND INSTALL METAL PIPE ENCLOSURE SYSTEM ON ALL EXPOSED PIPING. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL SPACE SENSORS; IE. TEMPERATURE, CARBON DIOXIDE, HUMIDITY, ETC., SHALL BE MOUNTED AT 48" AFF TO MEET ADA REQUIREMENTS. COORDINATE THE FINAL LOCATION OF ALL SPACE SENSORS WITH OTHER TRADE. PROVIDE TAMPER PROOF COVERS FOR ALL TEMPERATURE SENSORS. PROVIDE TG500 SERIES VENTED GUARD, CLEAR; OR ENGINEER APPROVED EQUAL, ON ALL SPACE SENSORS.
6. ALL EXISTING EQUIPMENT TO REMAIN SHALL BE PROTECTED THROUGH ALL PHASES OF CONSTRUCTION. UPON COMPLETION OF ALL PHASES OF CONSTRUCTION, CONTRACTOR SHALL CLEAN UNIT, ALL COILS AND REPLACE FILTERS.
7. IF ANY EXISTING / NEW UNITS ARE RUNNING DURING ANY PHASE OF CONSTRUCTION CONTRACTOR SHALL REPLACE FILTERS WEEKLY.
8. EACH BRANCH DUCTWORK SHALL BE PROVIDED WITH VOLUME DAMPER FOR BALANCING.
9. PROVIDE 1/4" UNDER CUT FOR ALL RESTROOMS, JANITOR CLOSETS, AND TOILETS DOOR FOR AIR TRANSFER.



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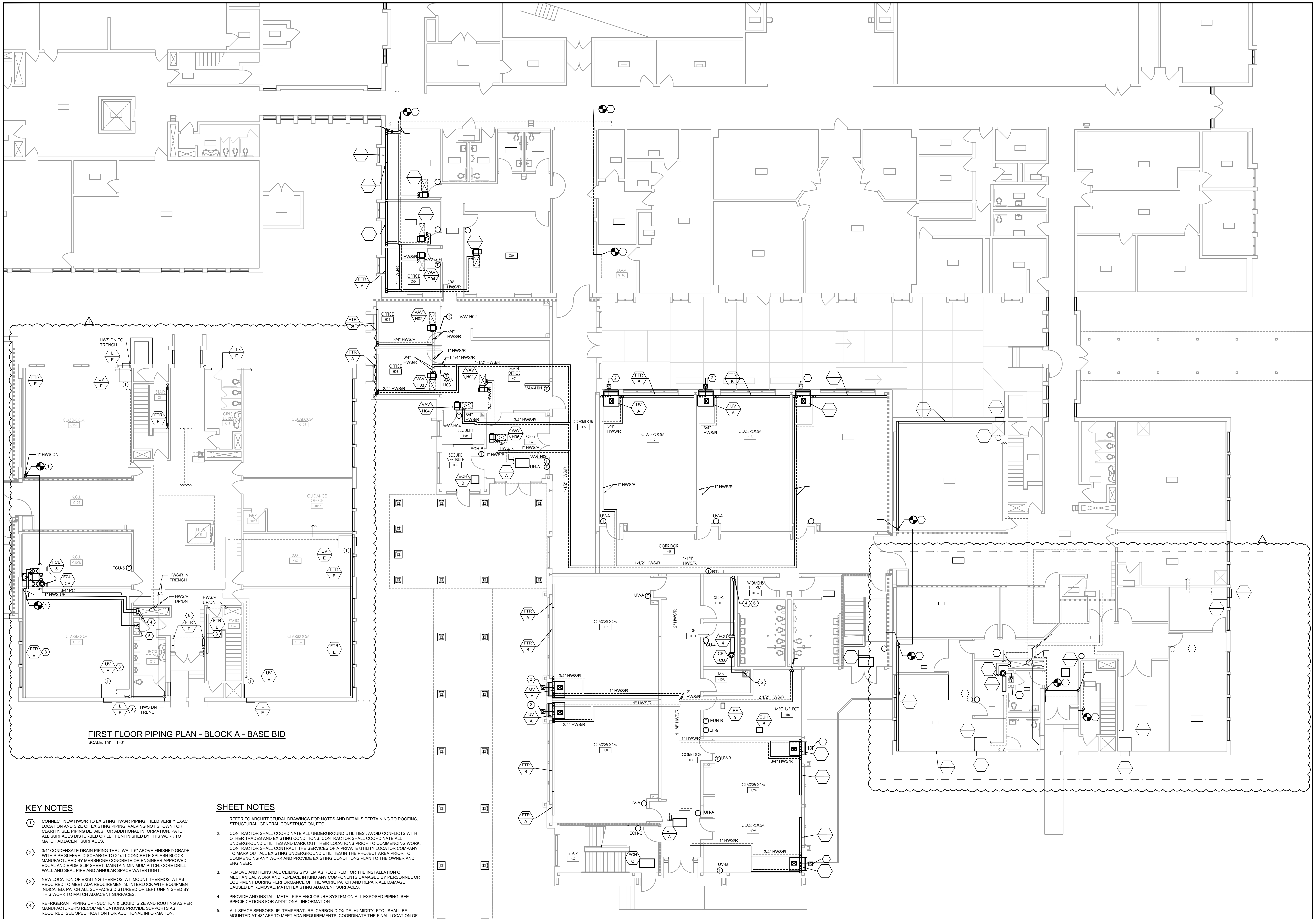


FIRST FLOOR PIPING PLAN - BLOCK A - BASE BID
SCALE: 1/8" = 1'-0"

KEY NOTES

① CONNECT NEW HWS/R TO EXISTING HWS/R PIPING. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING PIPING. VALVING NOT SHOWN FOR CLARITY. SEE PIPING DETAILS FOR ADDITIONAL INFORMATION. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

② 3/4" CONDENSATE DRAIN PIPING THRU WALL 6" ABOVE FINISHED GRADE WITH PIPE SLEEVE. DISCHARGE TO 24x11 CONCRETE SPLASH BLOCK, MANUFACTURED BY MERSHONE CONCRETE OR ENGINEER APPROVED EQUAL AND EPDM SLIP SHEET. MAINTAIN MINIMUM PITCH. CORE DRILL WALL AND SEAL PIPE AND ANNULAR SPACE WATERTIGHT.

③ NEW LOCATION OF EXISTING THERMOSTAT. MOUNT THERMOSTAT AS REQUIRED TO MEET ADA REQUIREMENTS. INTERLOCK WITH EQUIPMENT INDICATED. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

④ REFRIGERANT PIPING UP - SUCTION & LIQUID. SIZE AND ROUTING AS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTS AS REQUIRED. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.

⑤ 3/4" CONDENSATE DRAIN DOWN TO JANITOR SINK WITH CODE REQUIRED AIR GAP; MINIMUM 1" ABOVE RIM OF SINK. MAINTAIN MINIMUM PITCH.

⑥ PROVIDE AND INSTALL METAL PIPE ENCLOSURE SYSTEM ON ALL EXPOSED PIPING. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

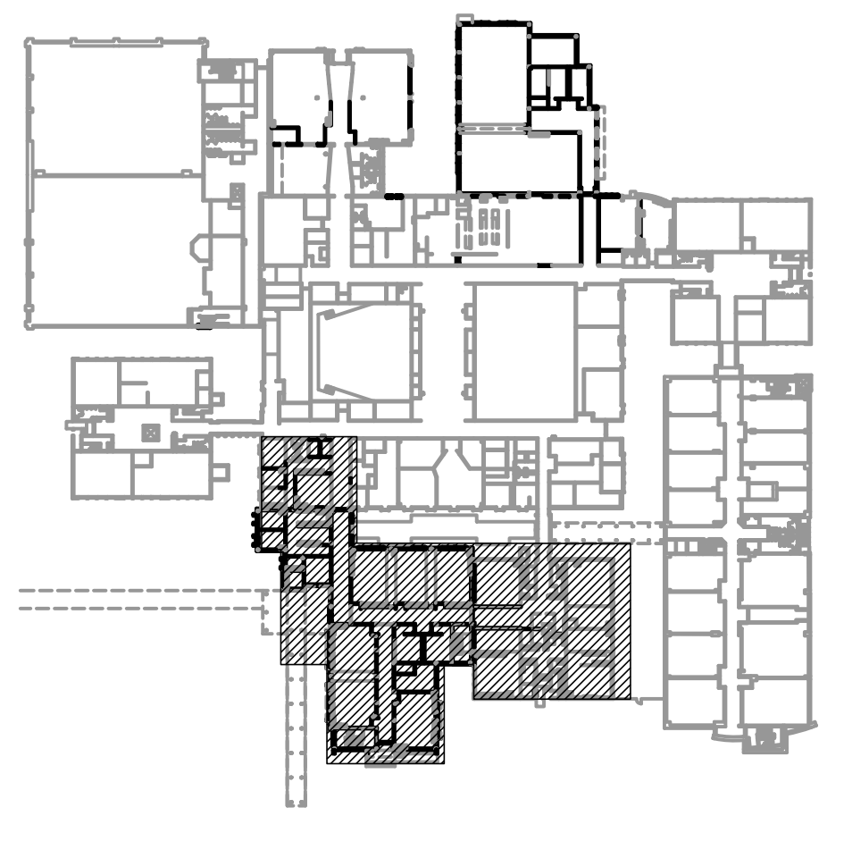
⑦ REFRIGERANT PIPING UP THRU PIPE PORTAL.

⑧ EXISTING TO REMAIN. 1

SHEET NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR NOTES AND DETAILS PERTAINING TO ROOFING, STRUCTURAL, GENERAL CONSTRUCTION, ETC.
2. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITIES . AVOID CONFLICTS WITH OTHER TRADES AND EXISTING CONDITIONS. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITIES AND MARK OUT THEIR LOCATIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL CONTRACT THE SERVICES OF A PRIVATE UTILITY LOCATOR COMPANY TO MARK OUT ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA PRIOR TO COMMENCING ANY WORK AND PROVIDE EXISTING CONDITIONS PLAN TO THE OWNER AND ENGINEER.
3. REMOVE AND REINSTALL CEILING SYSTEM AS REQUIRED FOR THE INSTALLATION OF MECHANICAL WORK AND REPLACE IN KIND ANY COMPONENTS DAMAGED BY PERSONNEL OR EQUIPMENT DURING PERFORMANCE OF THE WORK. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL, MATCH EXISTING ADJACENT SURFACES.
4. PROVIDE AND INSTALL METAL PIPE ENCLOSURE SYSTEM ON ALL EXPOSED PIPING. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL SPACE SENSORS; IE. TEMPERATURE, CARBON DIOXIDE, HUMIDITY, ETC., SHALL BE MOUNTED AT 48" AFF TO MEET ADA REQUIREMENTS. COORDINATE THE FINAL LOCATION OF ALL SPACE SENSORS WITH OTHER TRADE. PROVIDE TAMPER PROOF COVERS FOR ALL TEMPERATURE SENSORS. PROVIDE TG500 SERIES VENTED GUARD, CLEAR; OR ENGINEER APPROVED EQUAL, ON ALL SPACE SENSORS.
6. ALL EXISTING EQUIPMENT TO REMAIN SHALL BE PROTECTED THROUGH ALL PHASES OF CONSTRUCTION. UPON COMPLETION OF ALL PHASES OF CONSTRUCTION, CONTRACTOR SHALL CLEAN UNIT, ALL COILS AND REPLACE FILTERS.
7. IF UNITS ARE RUNNING DURING ANY PHASE OF CONSTRUCTION, CONTRACTOR SHALL REPLACE FILTERS WEEKLY.
8. ALL BRANCH PIPING CONNECTED TO TWO OR MORE UNIT VENTILATOR INTERNAL CONDENSATE PUMPS SHALL BE MINIMUM 1" PUMPED CONDENSATE UNLESS OTHERWISE NOTED.
9. PROVIDE PIPE ANCHOR, GUIDE & EXPANSION LOOP SERVING EACH HVAC PIPING AS REQUIRED PER SPECIFICATION. SEE SPECIFICATION AND DETAILS FOR ADDITIONAL INFORMATION.
10. EACH BRANCH DUCTWORK SHALL BE PROVIDED WITH VOLUME DAMPER FOR BALANCING.
11. PROVIDE 1/4" UNDER CUT FOR ALL RESTROOMS, JANITOR CLOSETS, AND TOILETS DOOR FOR AIR TRANSFER.
12. PROVIDE SHUTOFF VALVES AT EACH BRANCH TAKE OFF PIPING SERVING THE UNIT VENTILATOR AND FIN TUBE RADIATOR.

FIRST FLOOR PIPING PLAN - BLOCK A
SCALE: 1/8" = 1'-0"



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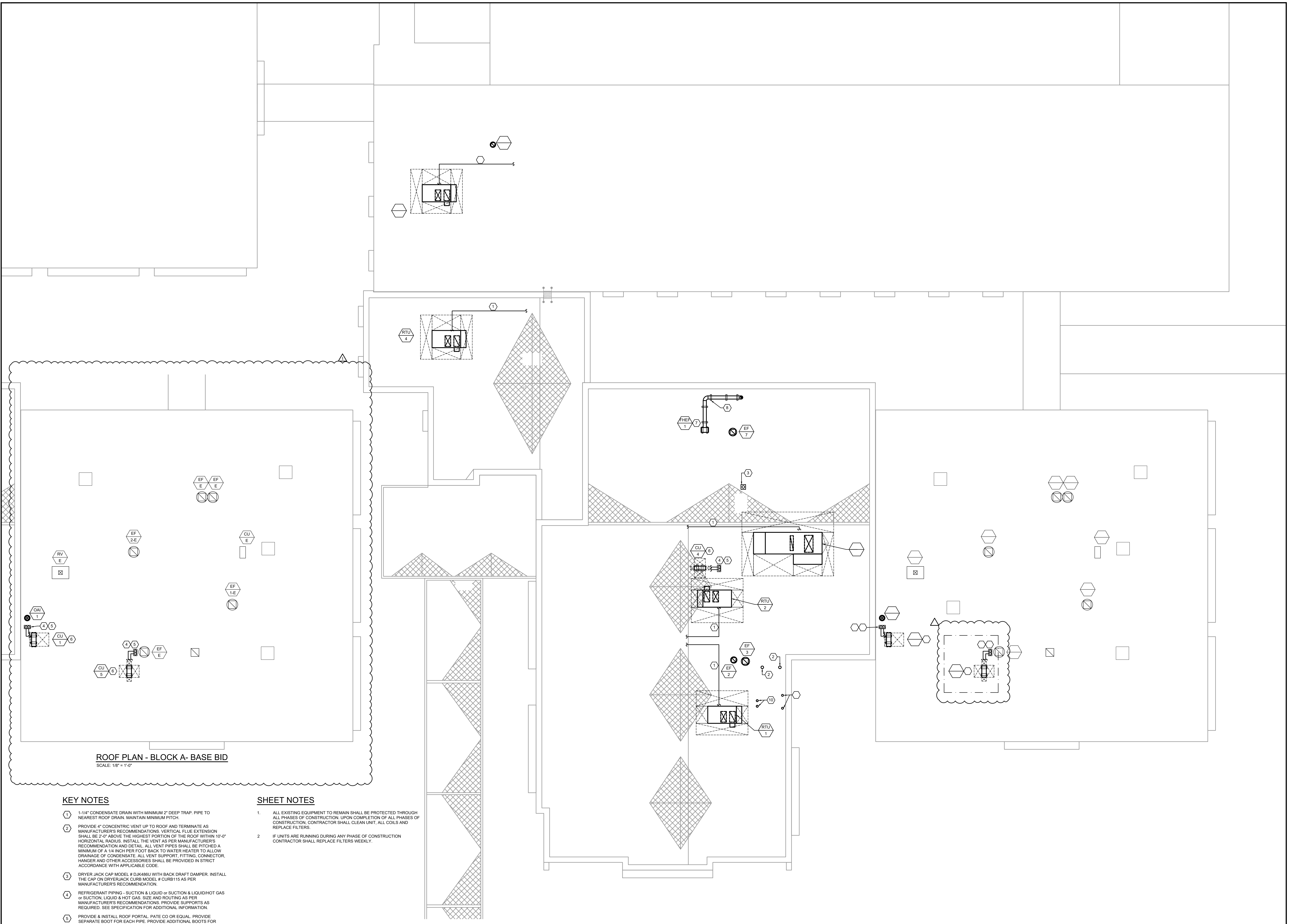

ROOF PLAN - BLOCK A- BASE BID

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

ROOF PLAN - BLOCK A

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

KEY NOTES

1. 1-1/4" CONDENSATE DRAIN WITH MINIMUM 2" DEEP TRAP. PIPE TO NEAREST ROOF DRAIN. MAINTAIN MINIMUM PITCH.
2. PROVIDE 4" CONCENTRIC VENT UP TO ROOF AND TERMINATE AS MANUFACTURER'S RECOMMENDATIONS. VERTICAL FLUE EXTENSION SHALL BE 2'-0" ABOVE THE HIGHEST PORTION OF THE ROOF WITHIN 10'-0" HORIZONTAL RADIUS. INSTALL THE VENT AS PER MANUFACTURER'S RECOMMENDATION AND DETAIL. ALL VENT PIPES SHALL BE PITCHED A MINIMUM OF A 1/4 INCH PER FOOT BACK TO WATER HEATER TO ALLOW DRAINAGE OF CONDENSATE. ALL VENT SUPPORT, FITTING, CONNECTOR, HANGER AND OTHER ACCESSORIES SHALL BE PROVIDED IN STRICT ACCORDANCE WITH APPLICABLE CODE.
3. DRYER JACK CAP MODEL # DJK486U WITH BACK DRAFT DAMPER. INSTALL THE CAP ON DRYERJACK CURB MODEL # CURB115 AS PER MANUFACTURER'S RECOMMENDATION.
4. REFRIGERANT PIPING - SUCTION & LIQUID or SUCTION & LIQUID/HOT GAS or SUCTION, LIQUID & HOT GAS. SIZE AND ROUTING AS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTS AS REQUIRED. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
5. PROVIDE & INSTALL ROOF PORTAL. PATE CO OR EQUAL. PROVIDE SEPARATE BOOT FOR EACH PIPE. PROVIDE ADDITIONAL BOOTS FOR ELECTRICAL POWER AND CONTROL CONDUITS. DO NOT PASS MORE THAN (1) PIPE THRU EACH NIPPLE TO FACILITATE PROPER SEALING.
6. EQUIPMENT/DUCT MOUNTING RAILS WITH RUST RESISTANT UNISTRUT CRADLE FRAMING AROUND ENTIRE PERIMETER. HEIGHT AS REQUIRED TO MAINTAIN MINIMUM 18" BOTTOM OF DUCT ABOVE ROOF. LOCATE SUPPORTS MAXIMUM OF 96" ON CENTER AND AT EACH DIRECTION CHANGE. SEE DETAILS FOR ADDITIONAL INFORMATION.
7. ROUTE 12" DIA FUME HOOD DUCT ON ROOF WITH ROOF SUPPORT AND CONNECT TO NEW FUME HOOD EXHAUST FAN. PROVIDE AIRCRAFT CABLE GUY WIRE SUPPORT FOR FAN NOZZLE.
8. DUCT MOUNTING RAILS WITH RUST RESISTANT UNISTRUT CRADLE FRAMING AROUND ENTIRE PERIMETER. HEIGHT AS REQUIRED TO MAINTAIN MINIMUM 18" BOTTOM OF DUCT ABOVE ROOF. LOCATE SUPPORTS MAXIMUM OF 96" ON CENTER AND AT EACH DIRECTION CHANGE. CONTRACTOR TO COORDINATE SUPPORT PLACEMENT TO MINIMIZE LOCATING SUPPORTS WITHIN CRICKET AREA. SEE DETAILS FOR ADDITIONAL INFORMATION.
9. 6" EXHAUST VENT WITH AERCO EXHAUST MUFFLER UP THRU ROOF, HEATFAB SAF-T VENT CI PLUS, TERMINATE MIN. 72" ABOVE ROOF OR 3' 0" ABOVE ANY MECHANICAL INTAKE WHEN LOCATED WITHIN 10' 0" HORIZONTALLY WITH VELOCITY CONE, RAIN CAP AND LATERAL SUPPORTS (TYP-2).
10. PROVIDE 6" COMBUSTION AIR INTAKE UP TO ROOF. TERMINATE DUCT 30" ABOVE ROOF WITH TEE FITTING AND WIRE MESH SCREEN (TYP-2).

SHEET NOTES

1. ALL EXISTING EQUIPMENT TO REMAIN SHALL BE PROTECTED THROUGH ALL PHASES OF CONSTRUCTION. UPON COMPLETION OF ALL PHASES OF CONSTRUCTION, CONTRACTOR SHALL CLEAN UNIT, ALL COILS AND REPLACE FILTERS.

2 IF UNITS ARE RUNNING DURING ANY PHASE OF CONSTRUCTION CONTRACTOR SHALL REPLACE FILTERS WEEKLY.

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G06	CONFERENCE ROOM	445	12	5	0.06	86.70	0.8	108.38	-	-	-	-	115	450	450	115	0	RTU-3
H01	MAIN OFFICE	750	8	5	0.06	85.00	0.8	106.25	-	-	-	-	110	475	475	110	0	RTU-4
H02	OFFICE	190	3	5	0.06	26.40	0.8	33.00	-	-	-	-	45	300	300	45	0	RTU-4
H03	OFFICE	190	3	5	0.06	26.40	0.8	33.00	-	-	-	-	45	300	300	45	0	RTU-4
H04	SECURITY	85	2	5	0.06	15.10	0.8	18.88	-	-	-	-	20	125	125	20	0	RTU-4
H05	SECURE VESTIBULE	115	0	0	0.06	6.90	0.8	8.62	-	-	-	-	25	250	250	25	0	RTU-4
H06	LOBBY	270	4	5	0.06	36.20	0.8	45.25	-	-	-	-	50	350	350	50	0	RTU-4
H07	CLASSROOM	830	24	10	0.12	339.60	0.8	424.50	-	-	-	-	425	1500	1500	425	0	UV-A
H08	CLASSROOM	830	24	10	0.12	339.60	0.8	424.50	-	-	-	-	425	1500	1500	425	0	UV-A
H09A	CLASSROOM	418	13	10	0.12	180.16	0.8	225.20	-	-	-	-	230	1100	1100	230	0	UV-B
H09B	CLASSROOM	418	13	10	0.12	180.16	0.8	225.20	-	-	-	-	230	1100	1100	230	0	UV-B
H10A	JANITOR	75	0	0	0	0.00	0.8	0.00	0	0	1.0	75.00	0	50	0	100	50	EF-2
H10	MECH./ELECT.	341	0	0	0.12	40.92	1.8	22.73	-	-	-	-	0	650	0	0	100	RTU-1
H11A	WOMENS TLT RM	345	0	0	0	0.00	0.8	0.00	5	70	0	350	0	200	0	375	175	EF-3
H11B	MENS TLT RM	345	0	0	0	0.00	0.8	0.00	5	70	0	350	0	200	0	375	175	EF-3
H11C	STOR.	89	0	0	0.06	5.34	0.8	6.67	-	-	-	-	10	100	100	-	-	RTU-1
H11D	IDF	88	0	0	0.06	5.28	0.8	6.60	-	-	-	-	10	100	100	-	-	RTU-1
H12	CLASSROOM	830	24	10	0.12	339.60	0.8	424.50	-	-	-	-	425	1500	1500	425	0	UV-A
H13	CLASSROOM	830	24	10	0.12	339.60	0.8	424.50	-	-	-	-	425	1500	1500	425	0	UV-A
H14	CLASSROOM	830	24	10	0.12	339.60	0.8	424.50	-	-	-	-	425	1500	1500	425	0	UV-A
H-A	CORRIDOR	785	0	0	0.06	47.10	0.8	58.87	-	-	-	-	180	350	350	0	0	RTU-1
H-B	CORRIDOR	820	0	0	0.06	49.20	0.8	61.50	-	-	-	-	75	200	200	0	350	RTU-1
H-C	CORRIDOR	765	0	0	0.06	45.90	0.8	57.38	-	-	-	-	85	200	200	0	50	RTU-1
AC2	CORRIDOR	650	0	0	0.06	39.00	0.8	48.75	-	-	-	-	50	200	200	-	-	RTU-A102
A101	ORCHESTRA ROOM	1051	30	10	0.06	363.06	0.8	453.83	-	-	-	-	525	1300	1300	525	0	RTU-A101
A102	BAND ROOM	1775	52	10	0.06	626.50	0.8	783.13	-	-	-	-	1025	2365	2365	1025	0	RTU-A102
A102A	PRACTICE RM	72	2	10	0.06	24.32	0.8	30.40	-	-	-	-	40	100	100	40	100	RTU-A102
A102B	PRACTICE RM	72	2	10	0.06	24.32	0.8	30.40	-	-	-	-	40	100	100	40	100	RTU-A102
A103	CHOIR ROOM	1975	47	10	0.06	588.50	0.8	735.62	-	-	-	-	900	2800	2800	900	0	RTU-A103
G108	CAFETERIA	3130	90	7.5	0.18	1238.40	0.8	1548.00	-	-	-	-	2600	3600	3600	2600	0	RTU-E
G109D	SERVING	1152	0	7.5	0.18	207.36	0.8	259.20	-	-	-	-	260	1600	1600	260	0	RTU-E
G108A	NEW CAFETERIA	2780	192	7.5	0.18	1940.40	0.8	2425.50	-	-	-	-	2450	5075	5075	2450	0	RTU-G108A
G108B	MULTI-PURPOSE ROOM	2670	168	20	0.18	3840.60	0.8	4800.75	-	-	-	-	4805	8000	8000	4805	0	ERU-1
G108C	JANITOR	70	0	0	0	0.00	0.8	0.00	0	0	1.0	70.00	0	25	0	100	75	EF-5
G108D	MECH. / ELECT.	202	0	0	0.12	24.24	1.8	13.47	-	-	-	-	0	300	0	0	100	RTU-G2
G108E	GIRLS TLT RM	260	0	0	0	0.00	0.8	0.00	4	70	0	280	0	200	0	300	100	EF-4
G108F	BOYS TLT RM	260	0	0	0	0.00	0.8	0.00	4	70	0	280	0	200	0	300	100	EF-4
G108G	STORAGE	505	0	0	0.12	60.60	0.8	75.75	-	-	-	-	0	175	175	0	0	RTU-G2
G33	ENSEMBLE MUSIC	470	11	10	0.12	166.40	0.8	208.00	-	-	-	-	208	1100	1100	-	-	UV-B
G34	LIFE SKILLS	635	13	10	0.12	206.20	0.8	257.75	-	-	-	-	260	725	725	260	0	RTU-G33
G34A	FACULTY DINING	800	30	7.5	0.18	369.00	0.8	461.25	-	-	-	-	465	1000	1000	465	0	RTU-G33
G-1	CORRIDOR	430	0	0	0.06	25.80	0.8	32.25	-	-	-	-	75	160	160	0	25	RTU-G33
G-1A	IDF	125	0	0	0.12	15.00	0.8	18.75	-	-	-	-	35	75	0	100	25	EF-6
G-2	LOBBY	975	0	0	0.06	58.50	0.8	73.13	-	-	-	-	430	1400	1400	0	275	RTU-G2
C202	SGI	460	13	10	0.12	185.20	0.8	231.50	-	-	-	-	235	1125	1125	235	0	FCU-1
C2-1	CORRIDOR	295	0	0	0.06	17.70	0.8	22.13	-	-	-	-	25	-	-	-	-	-
HC-1	CORRIDOR	660	0	0	0.06	39.60	0.8	49.50	-	-	-	-	95	200	200	0	375	RTU-2
HC-2	CORRIDOR	825	0	0	0.06	49.50	0.8	61.88	-	-	-	-	150	300	300	0	50	RTU-2
H20	SCIENCE CLASSROOM	1085	25	10	0.18	445.30	0.8	556.63	0	0	1.0	1085.00	560	2100	2100	560/1100	0	ERU-2
H21	SCIENCE CLASSROOM	1085	25	10	0.18	445.30	0.8	556.63	0	0	1.0	1085.00	560	2100	2100	560/1100	0	ERU-2
H23	STOR./ROOF ACCESS	270	0	0	0.12	32.40	0.8	40.50	-	-	-	-	95	250	0	0	0	RTU-2
H24	CLASSROOM	870	24	10	0.12	344.40	0.8	430.50	-	-	-	-	435	1500	1500	435	0	UV-A
H25	CLASSROOM	865	24	10	0.12	343.80	0.8	429.75	-	-	-	-	435	1500	1500	435	0	UV-A
H26A	CLASSROOM	440	13	10	0.12	182.80	0.8	228.50	-	-	-	-	230	1100	1100	230	0	UV-B
H26B	CLASSROOM	440	13	10	0.12	182.80	0.8	228.50	-	-	-	-	230	1100	1100	230	0	UV-B
H27	MECH/ELEC	345	0	0	0	0.00	0.8	0.00	-	-	-	-	0	650	0	0	100	EF-3
H27A	JANITOR	75	0	0	0.12	9.00	0.8	11.25	0	0	1.0	75.00	0	50	0	100	50	EF-2
H28A	WOMENS TLT RM	345	0	0	0	0.00	0.8	0.00	5	70	0	350.00	0	200	0	375	175	EF-3
H28B	MENS TLT RM	345	0	0	0	0.00	0.8	0.00	5	70	0	350.00	0	200	0	375	175	EF-3
H28C	STORAGE	185	0	0	0.06	11.10	0.8	13.88	-	-	-	-	15	150	0	-	-	RTU-2
ST1	SCIENCE PREP	270	2	10	0.18	68.60	0.8	85.75	0	0	1	270.00	90	400	0	400	0	ERU-2

NOTES:

1. BASED ON 2021 INTERNATIONAL MECHANICAL CODE (IMC), TABLE 403.3, MINIMUM VENTILATION RATES.
2. ASHRAE VENTILATION STANDARD STANDARD 62.1 IS USED AS A SECONDARY REFERENCE SOURCE IF A PARTICULAR ROOM IS NOT INCLUDED IN THE IMC.

NOTES:

1. HANG VIA (4) POINTS FROM CONSTRUCTION ABOVE.
2. REMOTE THERMOSTAT WITH TAMPER COVER AND 2-WAY CONTROL VALVE BY ATC.
3. PROVIDE AQUASTAT TO PROVE HW FLOW.
4. PROVIDE HIGH STATIC MOTOR FOR .4" ESP AT FULL FLOW.

AIR DEVICES SCHEDULE

PLAN NO.	CFM RANGE	NECK SIZE	OVERALL SIZE	MANUFACTURER MODEL	REMARKS	PLAN NO.	CFM RANGE	NECK SIZE	OVERALL
CD	0-100	6" DIA	12x12	OMNI	SEE NOTES 1 & 6, 7	RR/ER	0-100	-	24x12
CD	101-225	8" DIA	12x12	OMNI	SEE NOTES 1 & 6, 7	RR/ER	101-200	-	24x12
CD	0-100	6" DIA	24x24	OMNI	SEE NOTES 1 & 6, 7	RR/ER	0-1000	-	24x12
CD	101-225	8" DIA	24x24	OMNI	SEE NOTES 1 & 6, 7	RR/ER	0-1000	-	24x24
CD	226-360	10" DIA	24x24	OMNI	SEE NOTES 1 & 6, 7	RR1/ER1	SEE PLANS	-	PLANS
CD	361-550	12" DIA	24x24	OMNI	SEE NOTES 1 & 6, 7				
CD	551-750	14" DIA	24x24	OMNI	SEE NOTES 1 & 6, 7				
CD	751-900	15" DIA	24x24	OMNI	SEE NOTES 1 & 6, 7				
SR	SEE PLANS	-	SEE PLANS	300RL	SEE NOTES 3 & 6, 7				
SR1	SEE PLANS	-	SEE PLANS	S300FS	SEE NOTES 5 & 6, 7				

NOTES:

1. PROVIDE FRAME WITH ACCESSORIES FOR T-BAR LAY-IN DROPPED CEILING GRID OR SURFACE MOUNTED BORDER FOR GYPSUM CEILING APPLICATION. SEE DRAWINGS FOR MOUNTING LOCATION. PROVIDE ACCESSORY ROUND BACK ADAPTER (SIZE AS INDICATED IN SCHEDULE) AND EQUALIZING GRID PROVIDE OPTIONAL DIRECTIONAL BLOW CLIPS WHERE INDICATED ON DRAWINGS. PROVIDE AND INSTALL R-6 FOIL-BACKED INSULATION ON 12x12 MODULE. PROVIDE FACTORY INSTALLED R-6 FOIL-BACKED INSULATION ON 24x24 MODULE.
2. PROVIDE WITH 35° DEFLECTION AT 1/2" BLADE SPACING WITH FRONT BLADE PARALLEL TO LONG DIMENSION. PROVIDE FRAME WITH ACCESSORIES FOR T-BAR LAY-IN CEILING GRID OR SURFACE MOUNTED BORDER FOR GYPSUM CEILING APPLICATION. SEE DRAWINGS FOR MOUNTING LOCATION. PROVIDE SQUARE TO ROUND TRANSITION AS REQUIRED. PROVIDE OPTIONAL OPPOSED BLADE DAMPER.
3. PROVIDE SUPPLY REGISTER WITH DOUBLE DEFLECTION AT 3/4" BLADE SPACING WITH FRONT BLADES PARALLEL TO LONG DIMENSION, OPTIONAL DAMPER AND SURFACE MOUNT BORDER MOUNTING FRAME.
4. PROVIDE RETURN REGISTER WITH SINGLE DEFLECTION AT 3/4" BLADE SPACING WITH BLADES PARALLEL TO LONG DIMENSION, OPTIONAL DAMPER AND SURFACE MOUNT BORDER MOUNTING FRAME.
5. PROVIDE WITH DOUBLE DEFLECTION AT 3/4" BLADE SPACING WITH FRONT BLADES PARALLEL TO SHORT DIMENSION AND ASD (AIR SCOOP DAMPER/EXTRACTOR).
6. PROVIDE STANDARD FINISH - #26 WHITE.
7. PROVIDE REMOTE CABLE OPERATED VOLUME DAMPERS LOCATED IN INACCESSIBLE CONSTRUCTION.

FAN SCHEDULE

PLAN NO	MANUFACTURER MODEL	LOCATION	AREA SERVED	FAN TYPE	FAN PERFORMANCE			ELECTRICAL DATA			
					CFM	TOTAL SP	FAN RPM	HP/ WATTS	RPM	VOLTS/Ø	DRIVE
EF-1	GREENHECK G-095-VG	ROOF	SEE PLAN	CENTRIFUGAL	200	0.5	1301	1/6	1301	115/1	DIRECT
EF-2	GREENHECK G-095-VG	ROOF	SEE PLAN	CENTRIFUGAL	200	0.5	1301	1/6	1301	115/1	DIRECT
EF-3	GREENHECK G-140-VG	ROOF	SEE PLAN	CENTRIFUGAL	1500	0.5	1079	1/2	1079	115/1	DIRECT
EF-4	GREENHECK G-095-VG	ROOF	SEE PLAN	CENTRIFUGAL	300	0.5	1332	1/6	1332	115/1	DIRECT
EF-5	GREENHECK G-097-VG	ROOF	SEE PLAN	CENTRIFUGAL	100	0.5	1120	1/4	1120	115/1	DIRECT
EF-6	GREENHECK G-097-VG	ROOF	SEE PLAN	CENTRIFUGAL	100	0.5	1120	1/4	1120	115/1	DIRECT
EF-7	GREENHECK G-090-VG	ROOF	SEE PLAN	CENTRIFUGAL	400	0.5	1472	1/10	1472	115/1	DIRECT
EF-8	GREENHECK CSP-A390-VG	SEE PLAN	SEE PLAN	CABINET	275	0.5	1318	61 W	1318	115/1	DIRECT
EF-9	GREENHECK CSP-A510-VG	SEE PLAN	SEE PLAN	CABINET	400	0.5	1246	104 W	1246	115/1	DIRECT
EF-10	GREENHECK CSP-A510-VG	SEE PLAN	SEE PLAN	CABINET	400	0.5	1246	104 W	1246	115/1	DIRECT
EF-11	GREENHECK CSP-A510-VG	SEE PLAN	SEE PLAN	CABINET	400	0.5	1246	104 W	1246	115/1	DIRECT

NOTES:

1. MOUNT FAN ON MINIMUM 12" HIGH ROOF CURB.
2. PROVIDE SOLID STATE SPEED CONTROL, NEMA-1 TOGGLE SWITCH, BIRDSCREEN & BACKDRAFT DAMPER.
3. PROVIDE ELECTRICAL DISCONNECT, VIBRATION ISOLATION SUPPORT RODS WITH MOUNTING BRACKETS, SPEED CONTROLLER AND ROUND DUCT CONNECTION.
4. PROVIDE CONTROLS FROM ATC CONTRACTOR.

LOUVER SCHEDULE

PLAN NO	MANUFACTURER MODEL	TYPE	SERVICE	AIRFLOW CFM	FREE AREA SF	VELOCITY FPM	AIR PRESS DROP IN WC	DIMENSIONS	
								DEPTH IN	WIDTH IN
L-1	GREENHECK ESD-403-12X12	4IN BLADE	INTAKE	125	0.3	413	0.03	4	12

NOTES:

1. PROVIDE 2-COAT 70% KYNER 500 FINISH. ARCHITECT TO SELECT COLOR.
2. PROVIDE BIRDSCREEN.
3. PROVIDE LINTEL.
4. THE BEGINNING POINT OF WATER PENETRATION IS 1007 FPM.
5. LOUVERS ARE ACMA CERTIFIED.

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NOTES:

1. MOUNT THE UNIT HEATER WITH THE CEILING BRACKET FOR HORIZONTAL DISCHARGE AS PER MANUFACTURER'S RECOMMENDATION WITH ASSOCIATED HARDWARE AND SUPPORTS.
2. PROVIDE UNIT WITH WALL MOUNTED THERMOSTAT.
3. PROVIDE INTEGRAL POWER DISCONNECT SWITCH.
4. MOUNT THE UNIT AT LEAST 8 FEET ABOVE THE FINISHED FLOOR AND AT LEAST 6 INCHES FROM WALL AS PER MANUFACTURER'S RECOMMENDATION.
5. INTEGRATE WITH EXISTING HONEYWELL BMS.PROVIDE CONTROLLABILITY OF ALL MECHANICAL EQUIPMENT WITH ASSOCIATED GRAPHICS AND PROVIDE SECURE REMOTE WEB ACCESS FOR SETPOINTS AND SCHEDULING ADJUSTMENT FOR OCCUPIED AND UNOCCUPIED MODES OF HEATING AND COOLING SET POINTS.

EXPANSION TANK SCHEDULE

ET
X

PLAN NO	MANUFACTURER MODEL	LOCATION	TANK VOLUME GAL	ACCEPT VOLUME GAL	CHARGE PRESS PSI	SYSTEM CONN INCH	MAX OPER TEMP °F	MAX OPER PRESS PSI	DIMENSIONS (IN.)			DRY WEIGHT LBS	MAX OPER WEIGHT LBS	REMARKS
									LENGTH	HEIGHT	DIA			
ET-1	B & G XYLEM B130	BOILER RM	29.68	10.51	-	1	200	70	-	37	20	125	-	SEE NOTES

NOTES:

1. PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD EXTENDING MINIMUM 6" BEYOND EQUIPMENT FOOTPRINT ON ALL SIDES.
2. PROVIDE B&G ATFL AIRTROL TANK FITTING.

PUMP SCHEDULE

P
X

PLAN NO	MANUFACTURER MODEL	LOCATION	SYSTEM SERVED	TYPE	GPM	HEAD FT	NET POS SUCT HD	RPM	EFF %	MOTOR HP	ELECTRICAL DATA	WEIGHT LBS	REMARKS
											VOLTS/Ø		
P-1	BELL & GOSSETT E-82	SEE PLAN	BOILER B-1 & B-2	INLINE	75	45	13.5	1538	67.2	3	460/3	100	SEE NOTES
P-2	BELL & GOSSETT E-82	SEE PLAN	BOILER B-1 & B-2	INLINE	75	45	13.5	1538	67.2	3	460/3	100	SEE NOTES
P-3	BELL & GOSSETT E-90-ECM	SEE PLAN	RTU-A101	INLINE	6	25	7.5	1718	22.4	0.5	208/1	70	SEE NOTES
P-4	BELL & GOSSETT E-90-ECM	SEE PLAN	RTU-A102	INLINE	11	25	7.5	1718	30.5	0.5	208/1	70	SEE NOTES
P-5	BELL & GOSSETT E-90-ECM	SEE PLAN	RTU-A103	INLINE	10	25	7.5	1717	28.9	0.5	208/1	70	SEE NOTES
P-6	BELL & GOSSETT E-90-ECM	SEE PLAN	RTU-G33	INLINE	8	25	7.5	1695	28.3	0.5	208/1	70	SEE NOTES

NOTES:

1. MOUNT THE PUMP FROM BUILDING STRUCTURE.
2. PROVIDE VIBRATION ISOLATION AS PER SPECIFICATION.
3. BALANCE THE PUMP P-3 TO P-6 TO MEET THE HOT WATER COIL FLOW RATE. REFER TO RTU SCHEDULE FOR HOT WATER COIL FLOW RATE.
4. PROVIDE WITH DDC BACNET CONTROLS FOR INTERFACE WITH EXISTING HONEYWELL NIAGARA 4 PLATFORM ATC CONTROL SYSTEM. ATC PANEL SHALL BE BACNET BASED AND PROVIDE CONTROLLABILITY OF ALL MECHANICAL EQUIPMENT WITH ASSOCIATED PROGRAMMING, GRAPHICS AND PROVIDE SECURE REMOTE WEB ACCESS FOR SETPOINTS AND SCHEDULING ADJUSTMENT FOR OCCUPIED AND UNOCCUPIED MODES OF HEATING AND COOLING.

ELECTRIC CABINET HEATER SCHEDULE

ECH
X

PLAN NO	MANUFACTURER MODEL	LOCATION	HTG CAP KW	MBH	ELECTRICAL DATA		DIMENSION (IN.)			WEIGHT LBS	REMARKS
					VOLTS/Ø	AMPS	LENGTH	WIDTH	HEIGHT		
ECH-A	INDEECO CDIR	SEE PLAN	3.8	12.96	277/1	13.7	24	24	7	30	SEE NOTES
ECH-B	INDEECO CDIR	SEE PLAN	5	17.1	277/1	18.1	24	24	7	30	SEE NOTES
ECH-C	INDEECO CUI (9221C-45)	SEE PLAN	6	27.5	277/1	37	45	26-3/8	9-3/4	160	SEE NOTES

NOTES:

1. MOUNT UNIT FROM STRUCTURE VIA 4 POINTS WITH VIBRATION ISOLATION SUPPORT RODS AND MOUNTING BRACKETS AS PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE CEILING RECESSED MOUNT KIT FOR ECH-A AND ECH-B AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE CEILING SURFACE MOUNT KIT FOR ECH-C AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE FRONT INLET AND FRONT OUTLET SUPPLY AND RETURN GRILL FOR ECH-C.
5. PROVIDE REMOTE WALL THERMOSTAT WITH TAMPER RESISTANT COVER.
6. PROVIDE DISCONNECT SWITCH.
7. PROVIDE FILTER.
8. PROVIDE KEY LOCK FOR FRONT COVER.
9. COLOR AS SELECTED BY ARCHITECT FROM ALL AVAILABLE COLORS.

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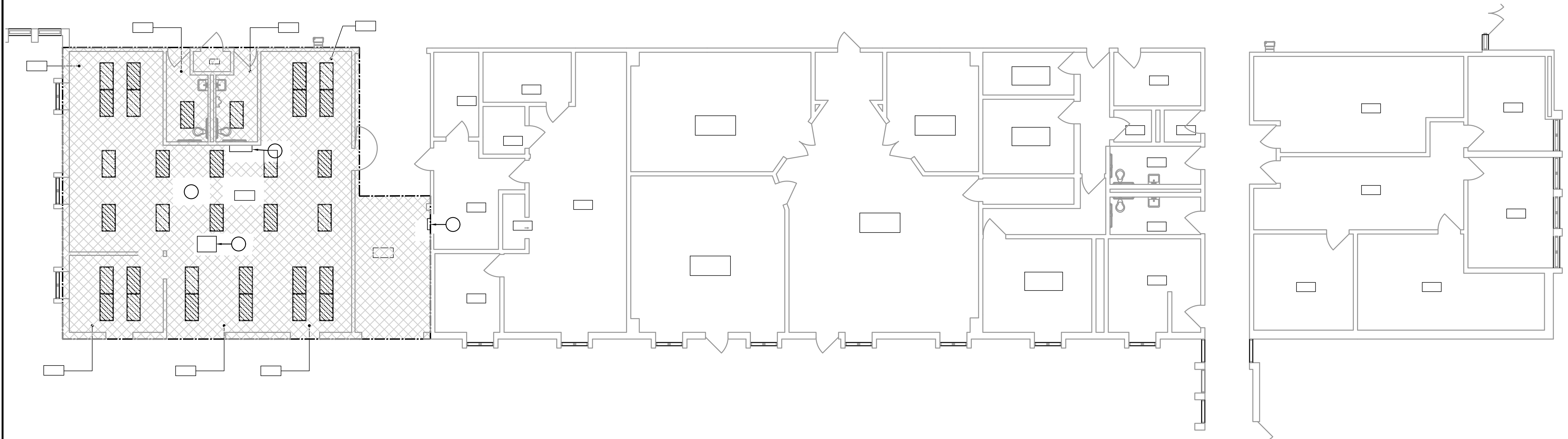
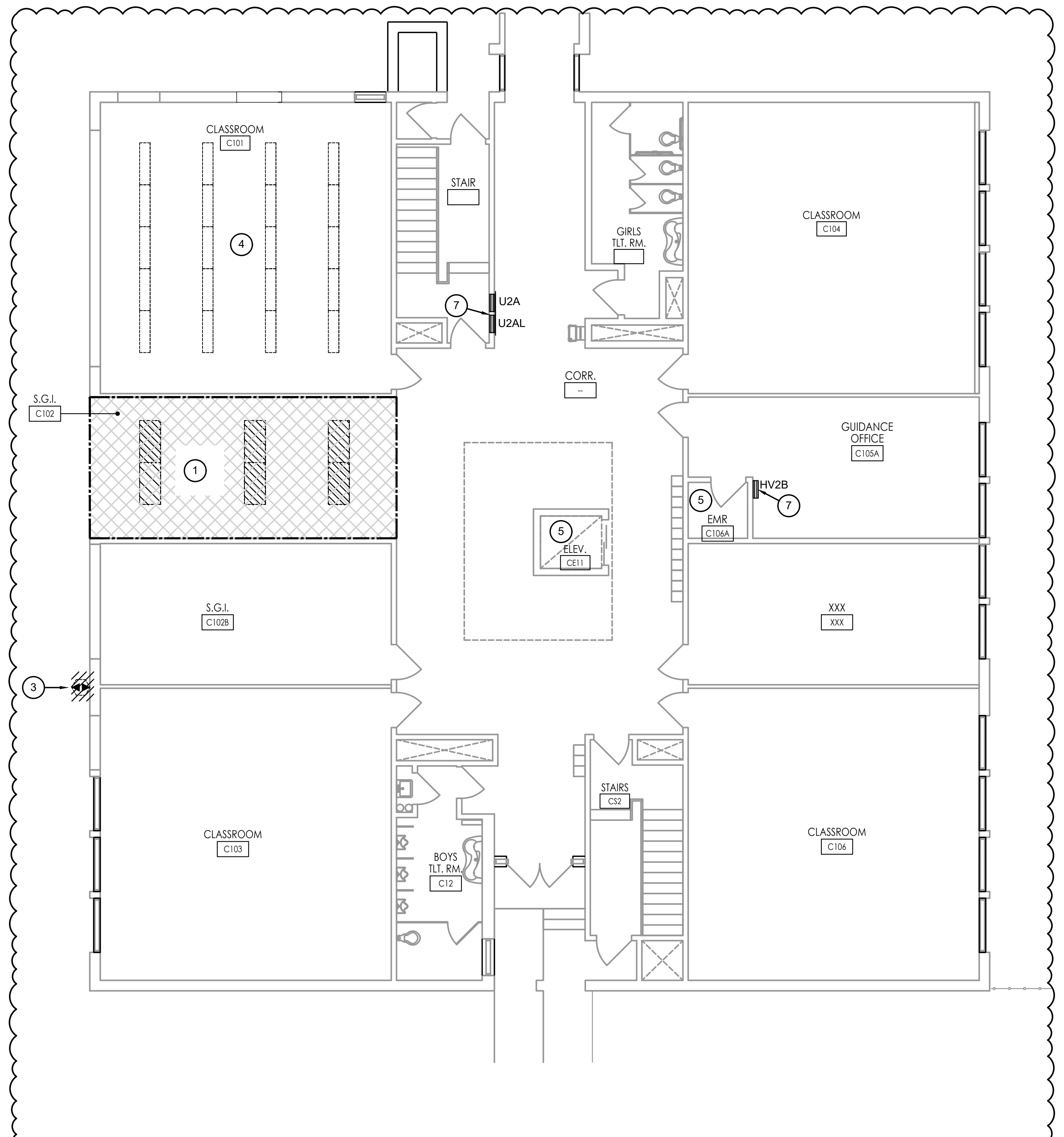
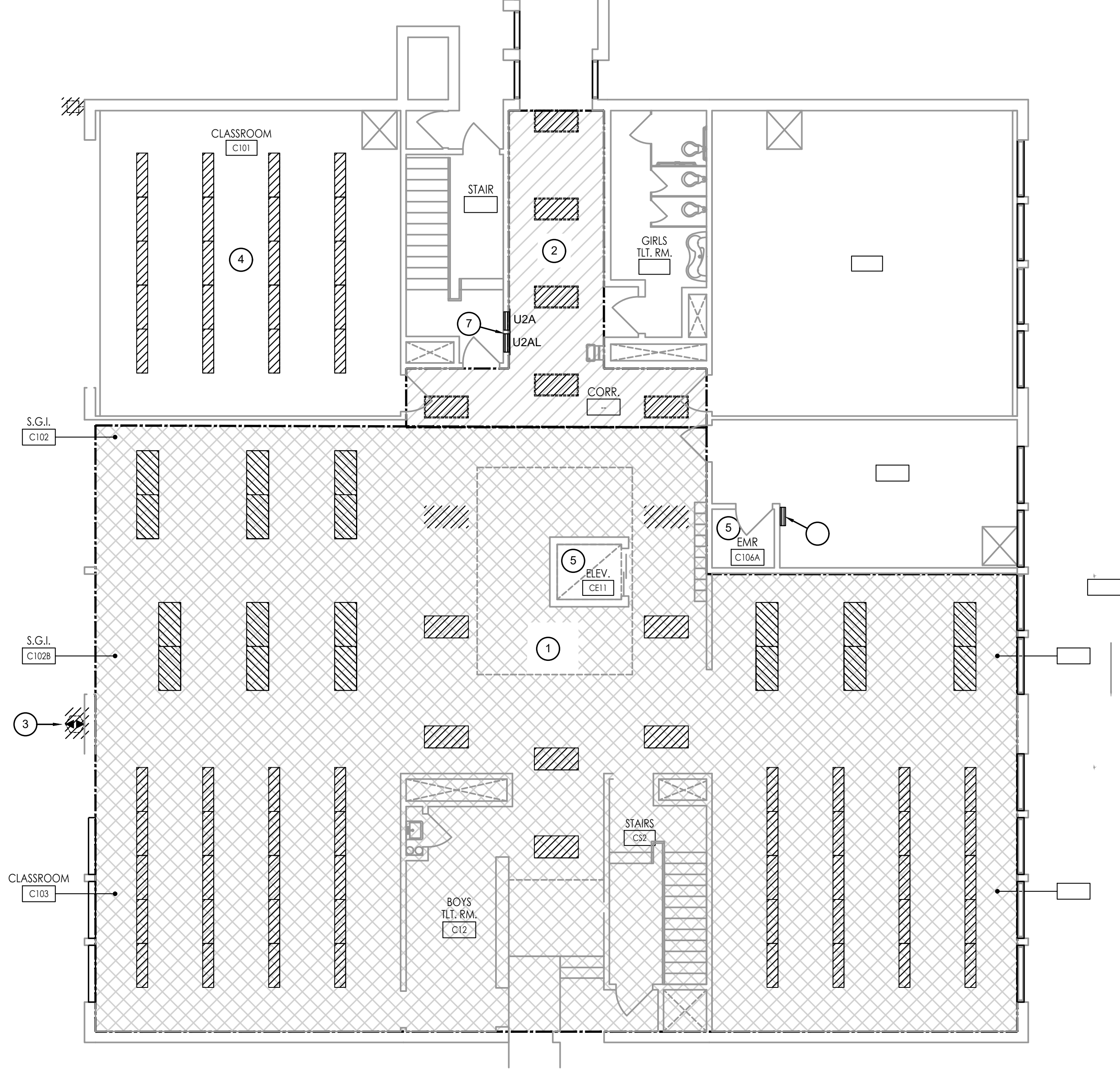




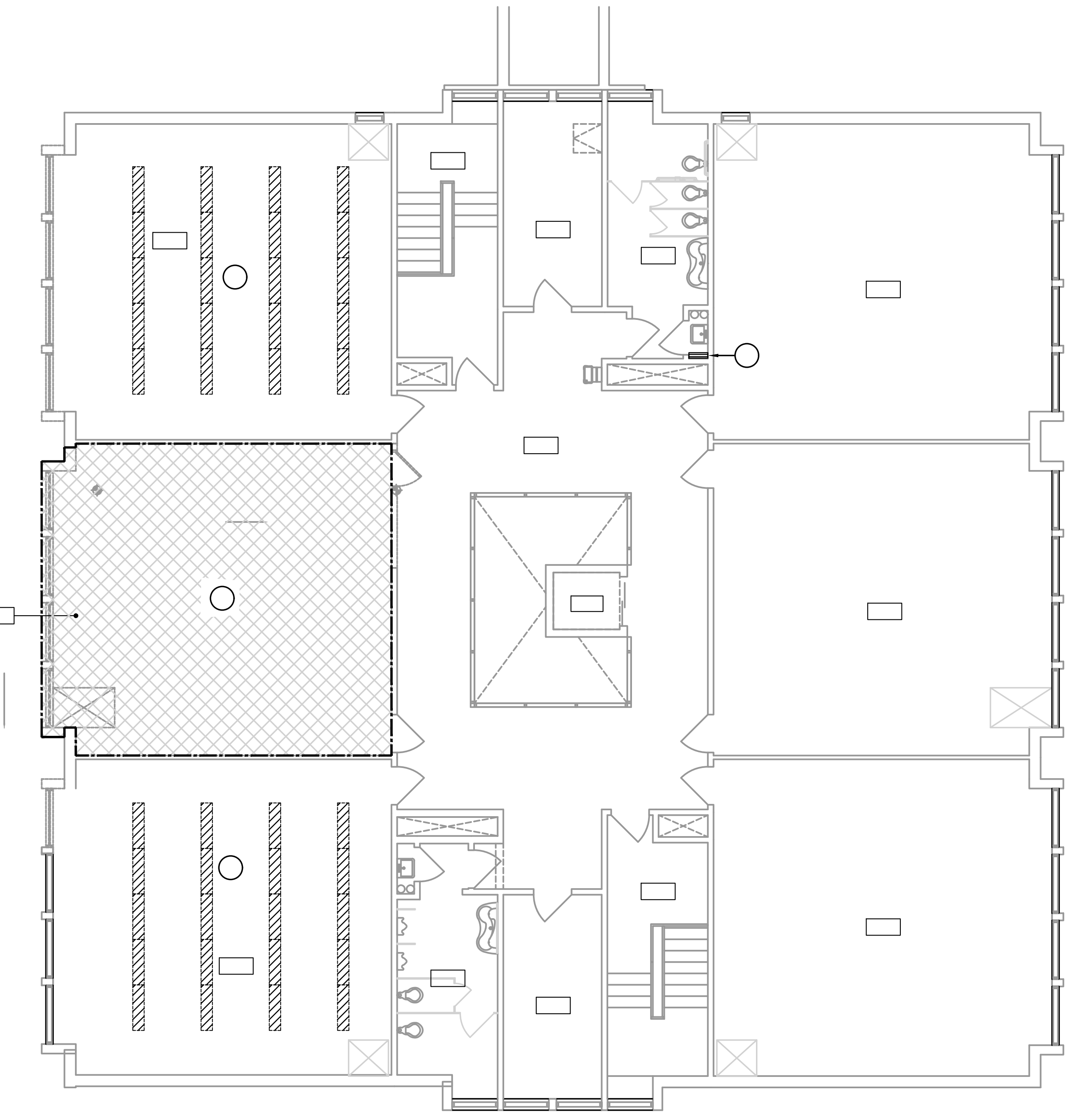
FIRST FLOOR DEMOLITION PLAN - BLOCK A

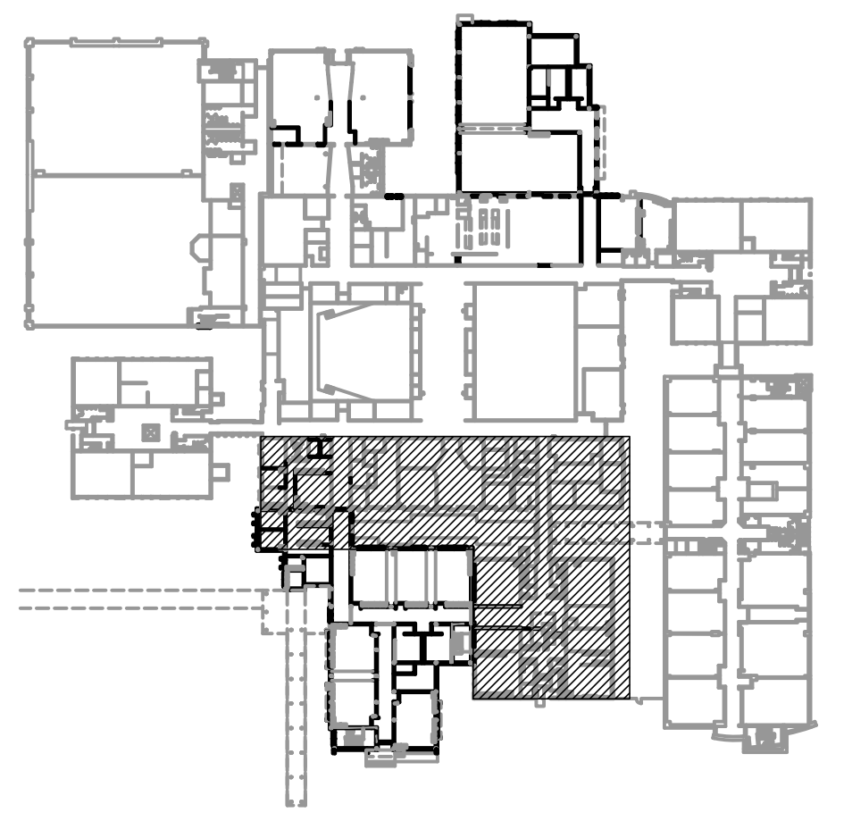
SCALE: 1/8" = 1'-0"

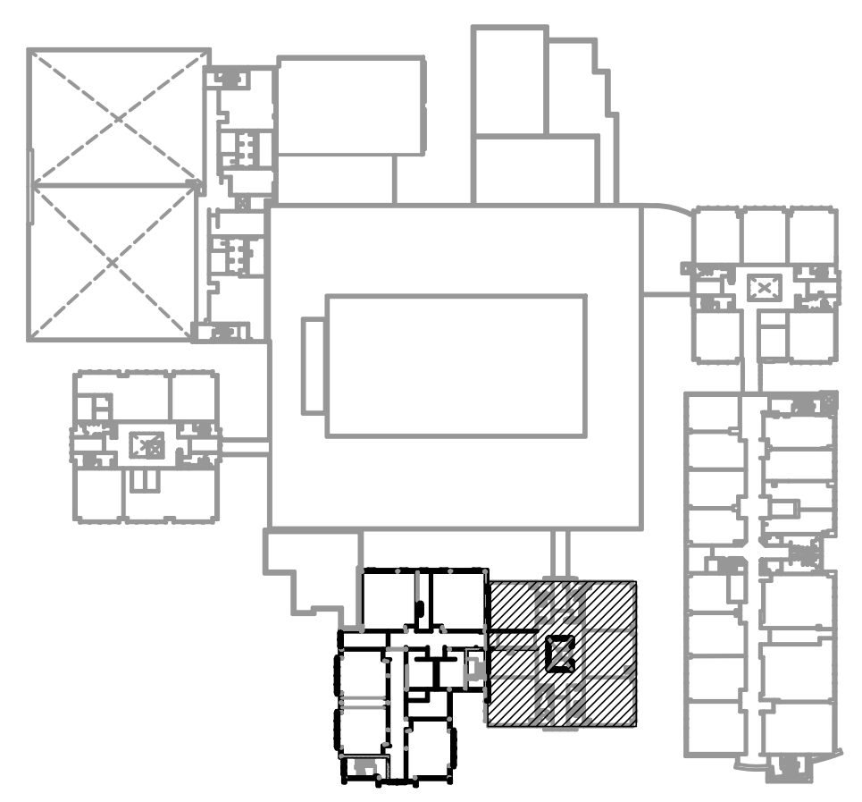


FIRST FLOOR DEMOLITION PLAN - BLOCK A - ALTERNATE BID

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







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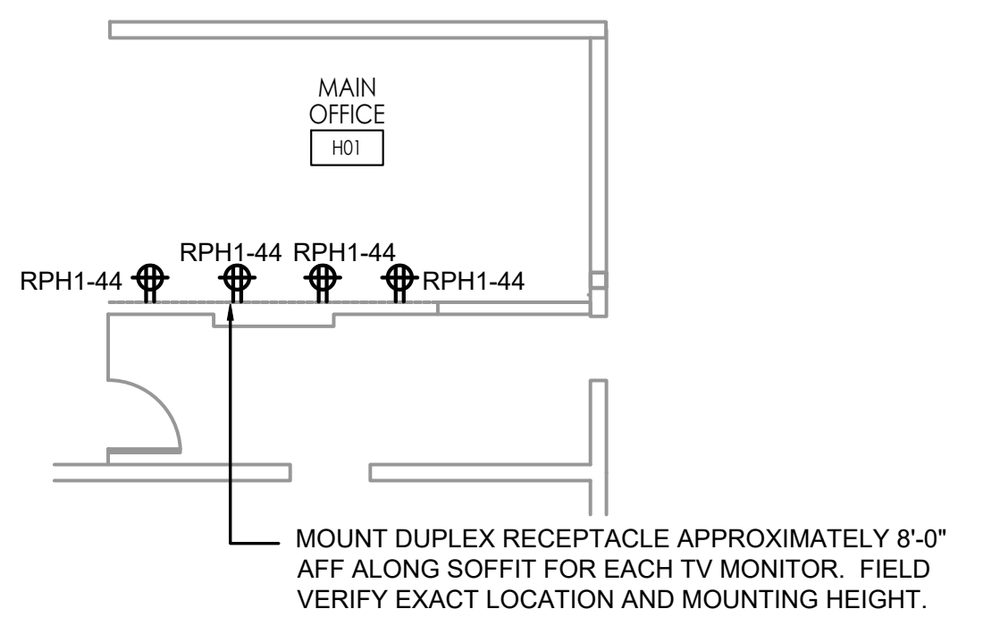
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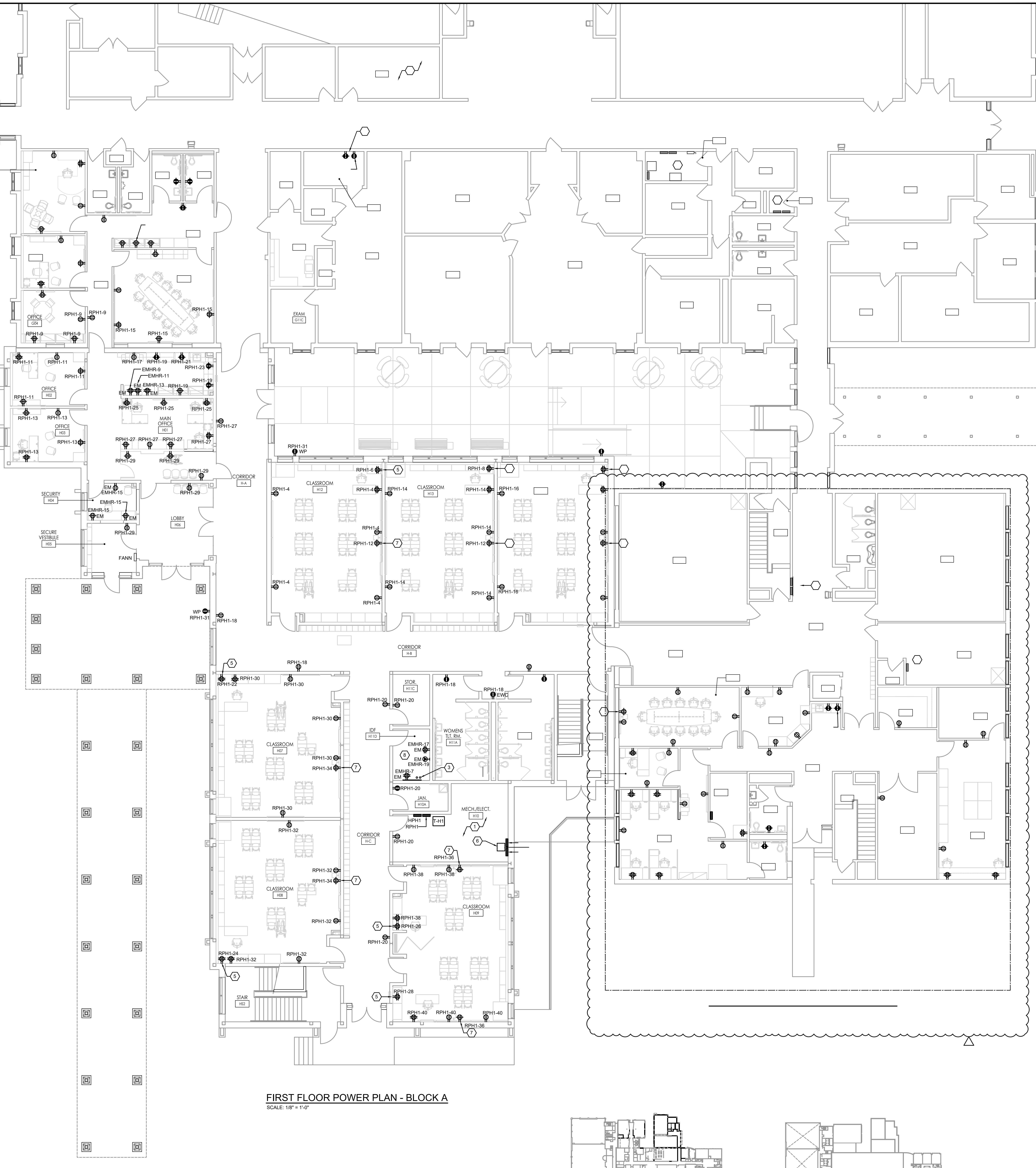
MOUNT DUPLEX RECEPTACLE APPROXIMATELY 8'-0" AFF ALONG SOFFIT FOR EACH TV MONITOR. FIELD VERIFY EXACT LOCATION AND MOUNTING HEIGHT.

FIRST FLOOR MAIN OFFICE SOFFIT

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



FIRST FLOOR POWER PLAN - BLOCK A

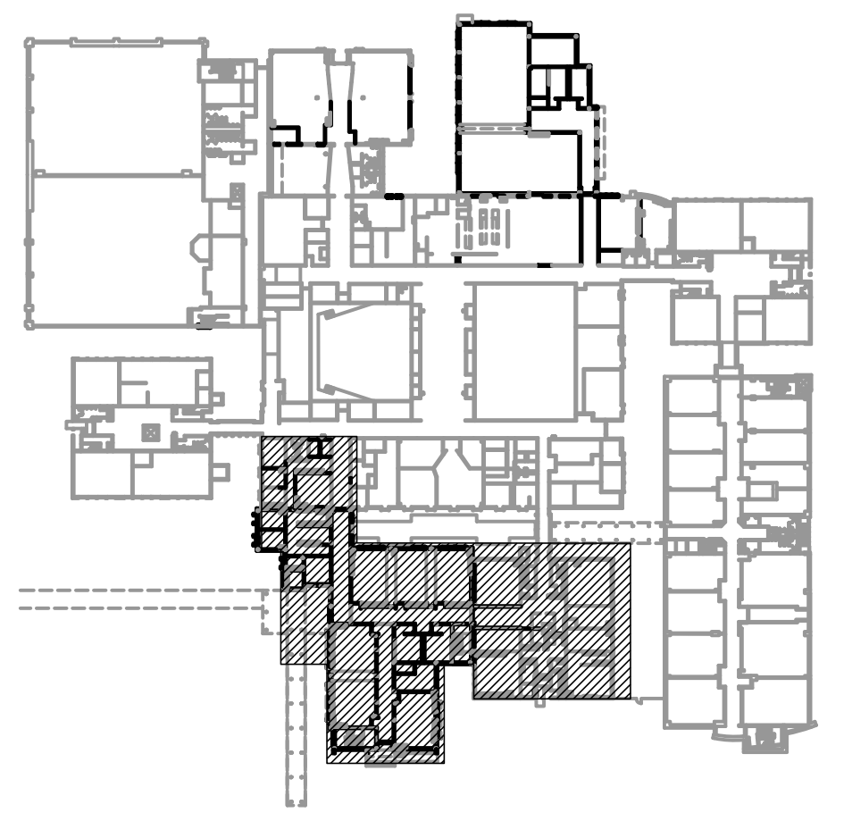
SCALE: 1/8" = 1'-0"

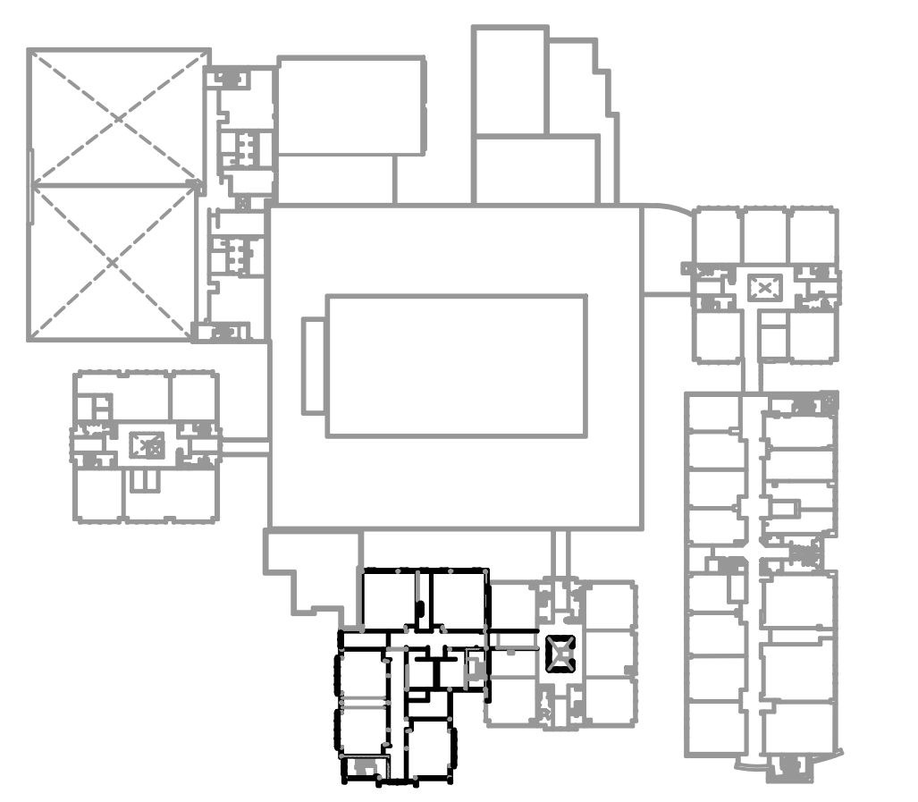
SHEET NOTES

1. COORDINATE ALL WIRING DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH THE ARCHITECT PRIOR TO ROUGH-IN. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
2. CONTRACTOR SHALL CAREFULLY COORDINATE ALL ELECTRICAL EQUIPMENT LOCATIONS AND CLEARANCES. PANEL AND EQUIPMENT SIZES SHOWN ON THE PLANS ARE BASED ON SQUARE D.
3. CIRCUIT ELECTRONIC TRAP PRIMERS TO THE NEAREST RECEPTACLE CIRCUIT SERVING THE AREA LOCATED - 2#12 & 1#12EG IN 3/4"C. REFER TO PLUMBING PLANS FOR EXACT LOCATIONS.
4. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
5. UNLESS SHOWN ON THIS PLAN AS NEW OR RELOCATED, ALL EXISTING WIRING DEVICES SHALL REMAIN.
6. "ETR" DESIGNATES SPECIFIC EXISTING EQUIPMENT OR DEVICES TO REMAIN.
7. ALL EXTERIOR RECEPTACLES SHALL BE TAMPER RESISTANT GFCI TYPE WITH CAST ALUMINUM IN-USE LOCKABLE COVER.

KEY NOTES

1	NEW PANELS AND TRANSFORMER LOCATION. REFER TO ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2	NEW EM RECEPTACLES FOR NURSES OFFICE REFRIGERATOR AND ICE MAKERS. FIELD COORDINATE EXACT LOCATIONS.
3	TWO (2) 4" CORE DRILLS UP TO FLOOR ABOVE FOR LOW VOLTAGE AND DATA WIRING.
4	EXISTING PANEL(S) TO REMAIN.
5	QUAD OUTLET FOR CLASSROOM AUDIO CABINET. FIELD VERIFY EXACT MOUNTING HEIGHT AND LOCATION.
6	NEW 30 KVA TRANSFORMER T-EMH TRAPEZE MOUNTED FROM STRUCTURAL CEILING.
7	PROJECTOR RECEPTACLE. FIELD VERIFY MOUNTING HEIGHT WITH PROJECTOR MANUFACTURER AND INSTALLATION INSTRUCTIONS.
8	IDF QUAD OUTLET AND UPS OUTLET. FIELD COORDINATE EXACT LOCATION AND NEMA CONFIGURATION WITH THE OWNER.
9	EXISTING MDF ROOM RACKS / EQUIPMENT ALREADY POWERED BY GENERATOR CIRCUITS.





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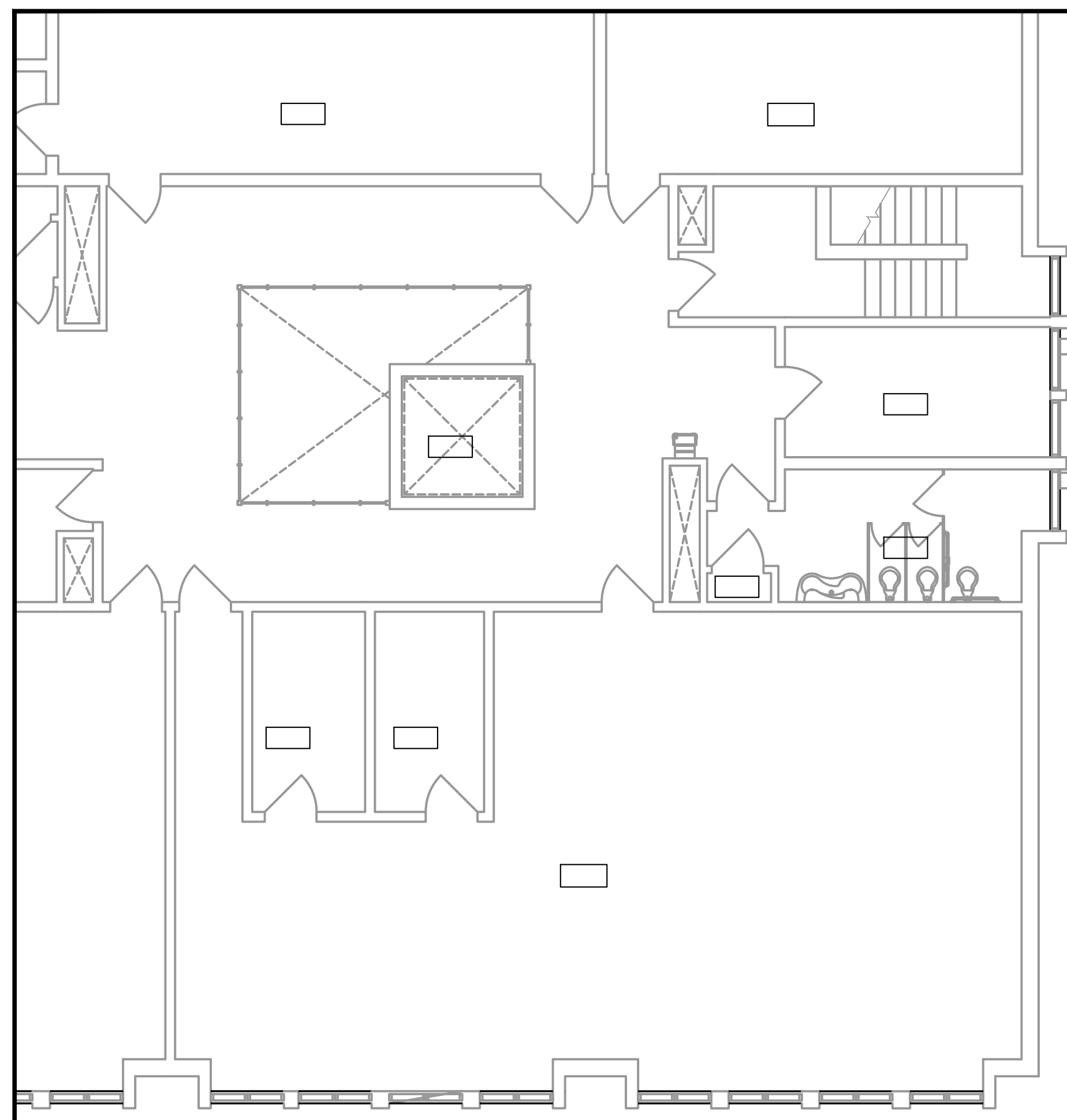
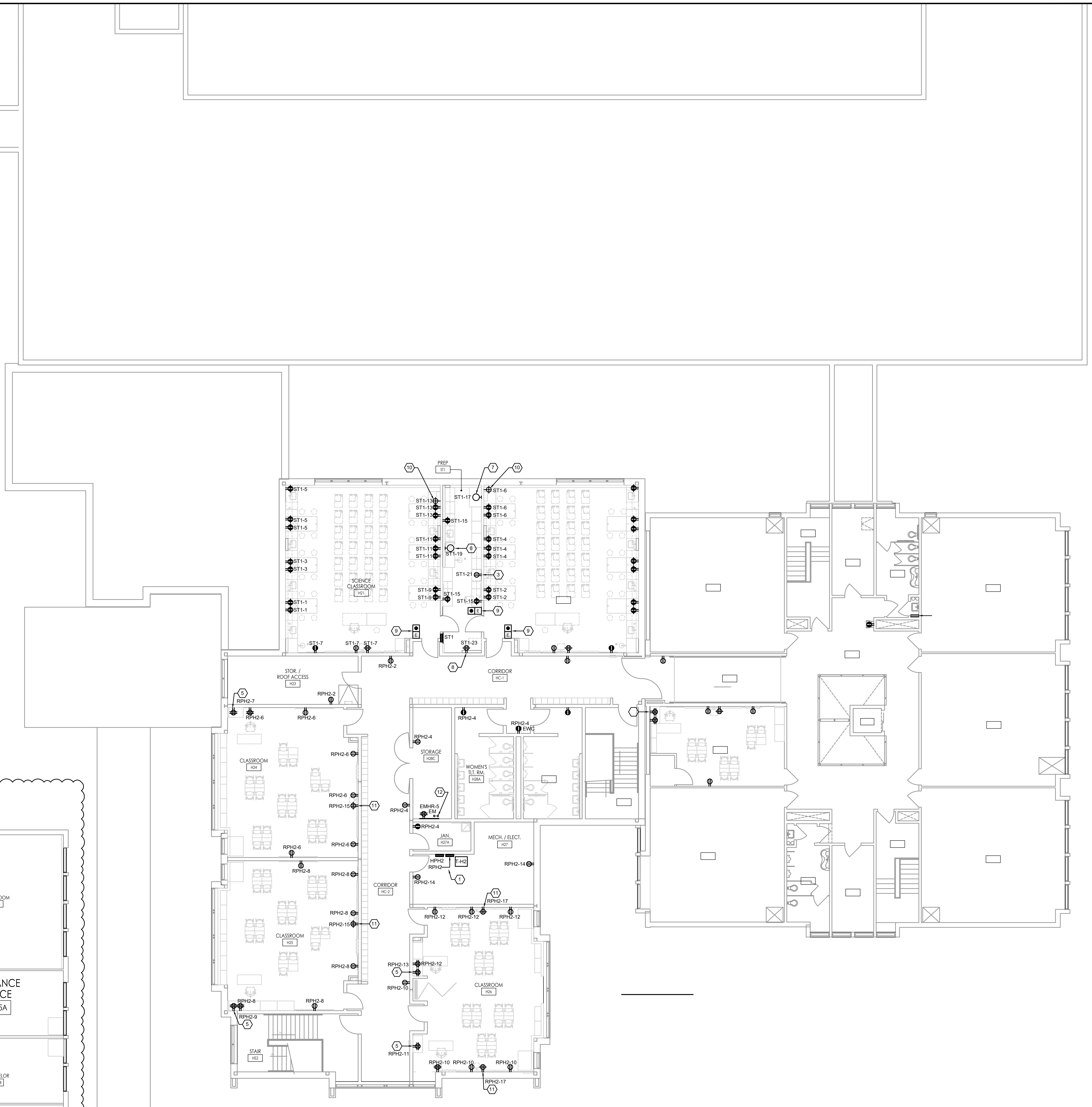


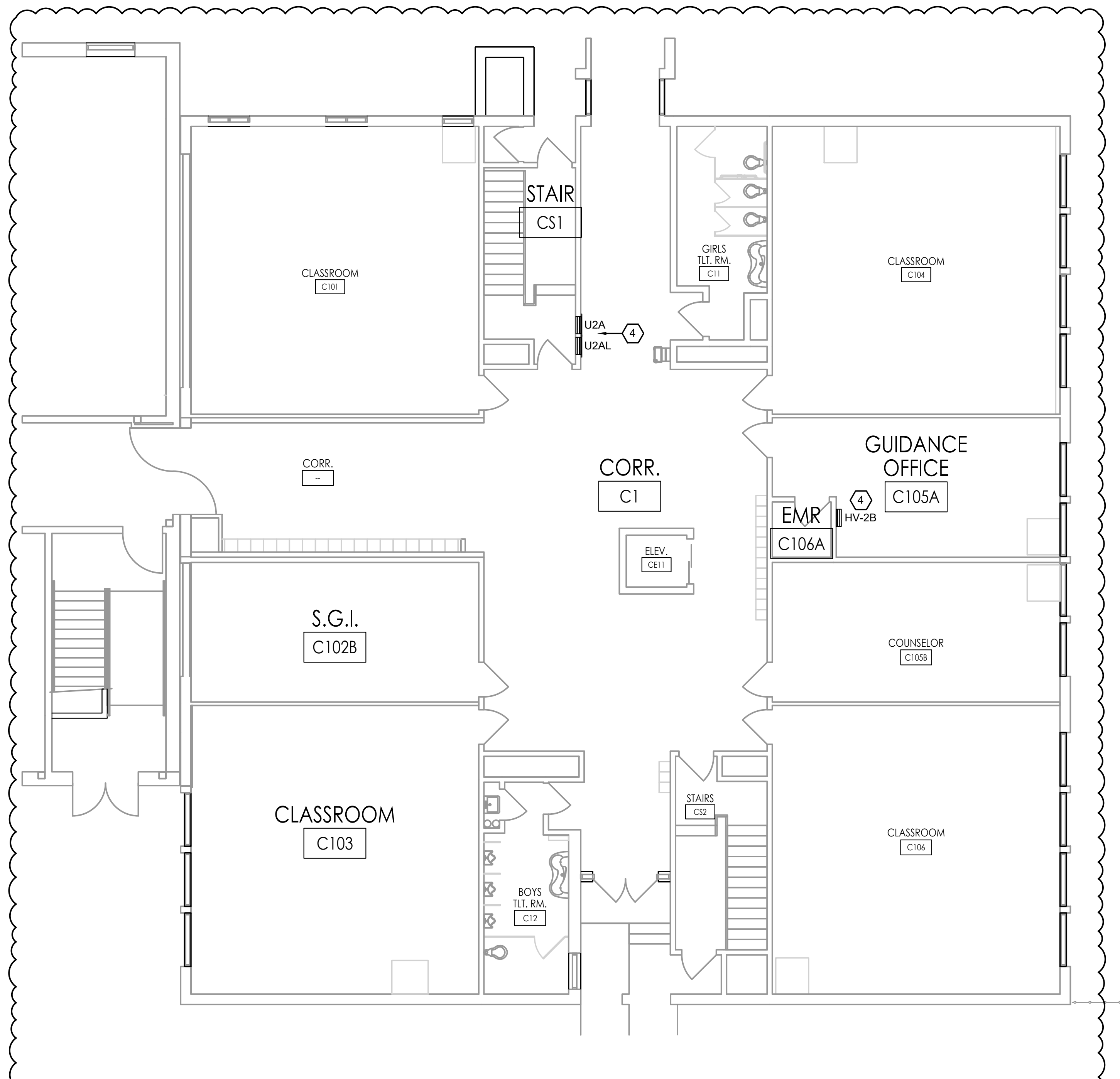
KEY NOTES

1. NEW PANELS AND TRANSFORMER LOCATION. REFER TO ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. JUNCTION BOX AND POWER WIRING FOR CARD READER LOCATION. COORDINATE EXACT REQUIREMENTS WITH THE SYSTEM VENDOR.
3. RECEPTACLE FOR UNDERCOUNTER REFRIGERATOR. FIELD VERIFY EXACT LOCATION AND MOUNTING HEIGHT.
4. EXISTING PANEL(S) TO REMAIN.
5. QUAD OUTLET FOR CLASSROOM AUDIO CABINET. FIELD VERIFY EXACT MOUNTING HEIGHT AND LOCATION.
6. JUNCTION BOX WITH DEDICATED CIRCUIT AND 120V POWER WIRING FOR GLASSWASHER. REFER TO MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
7. JUNCTION BOX AND POWER WIRING FOR FUME HOOD, HOOD LIGHT, FAN, RECEPTACLES AND SWITCH. PROVIDE ALL REQUIRED WIRING PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
8. NEMA 6-30R SIMPLEX RECEPTACLE AND NEMA 5-20R SIMPLEX RECEPTACLE FOR STACKED WASHER / DRYER. FIELD VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OF THE RECEPTACLES. △1
9. EMERGENCY GAS SOLENOID AND POWER SHUT-OFF MUSHROOM PUSHBUTTONS. REFER TO PANEL SCHEDULE FOR CIRCUITS TO BE SHUT DOWN AND DETAILS ON DRAWING E10.0 FOR ADDITIONAL INFORMATION.
10. SIMPLEX 5-20R RECEPTACLE MOUNTED TO THE RIGHT OF THE SAFETY GOGGLE CABINET ABOVE COUNTER. FIELD VERIFY EXACT HEIGHT WITH THE GOGGLE CABINET LOCATION.
11. SHORT THROW PROJECTOR RECEPTACLE. FIELD VERIFY MOUNTING HEIGHT WITH PROJECTOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
12. TWO (2) 4" CONDUIT CORE DRILLS TO FLOOR BELOW FOR LOW VOLTAGE AND DATA WIRING.



SECOND FLOOR POWER PLAN - BLOCK A

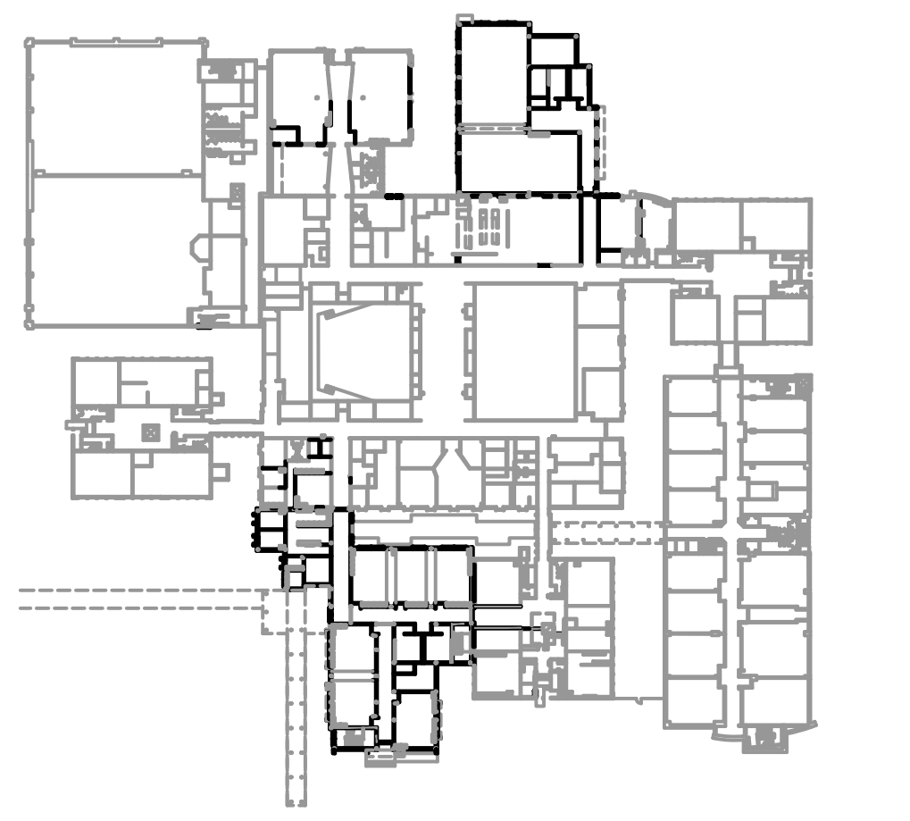
SCALE: 1/8" = 1'-0"

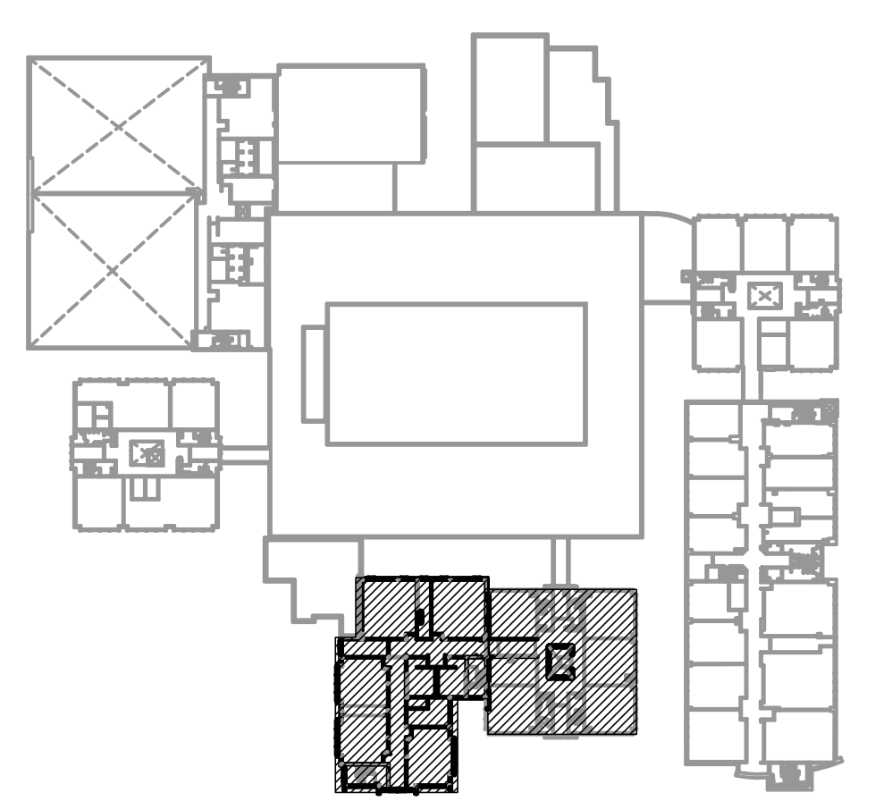


PART FIRST FLOOR PLAN - BASE BID

SCALE: 1/8" = 1'-0"
REFER TO DRAWING E3.0 FOR ALTERNATE BID PLAN.

△2





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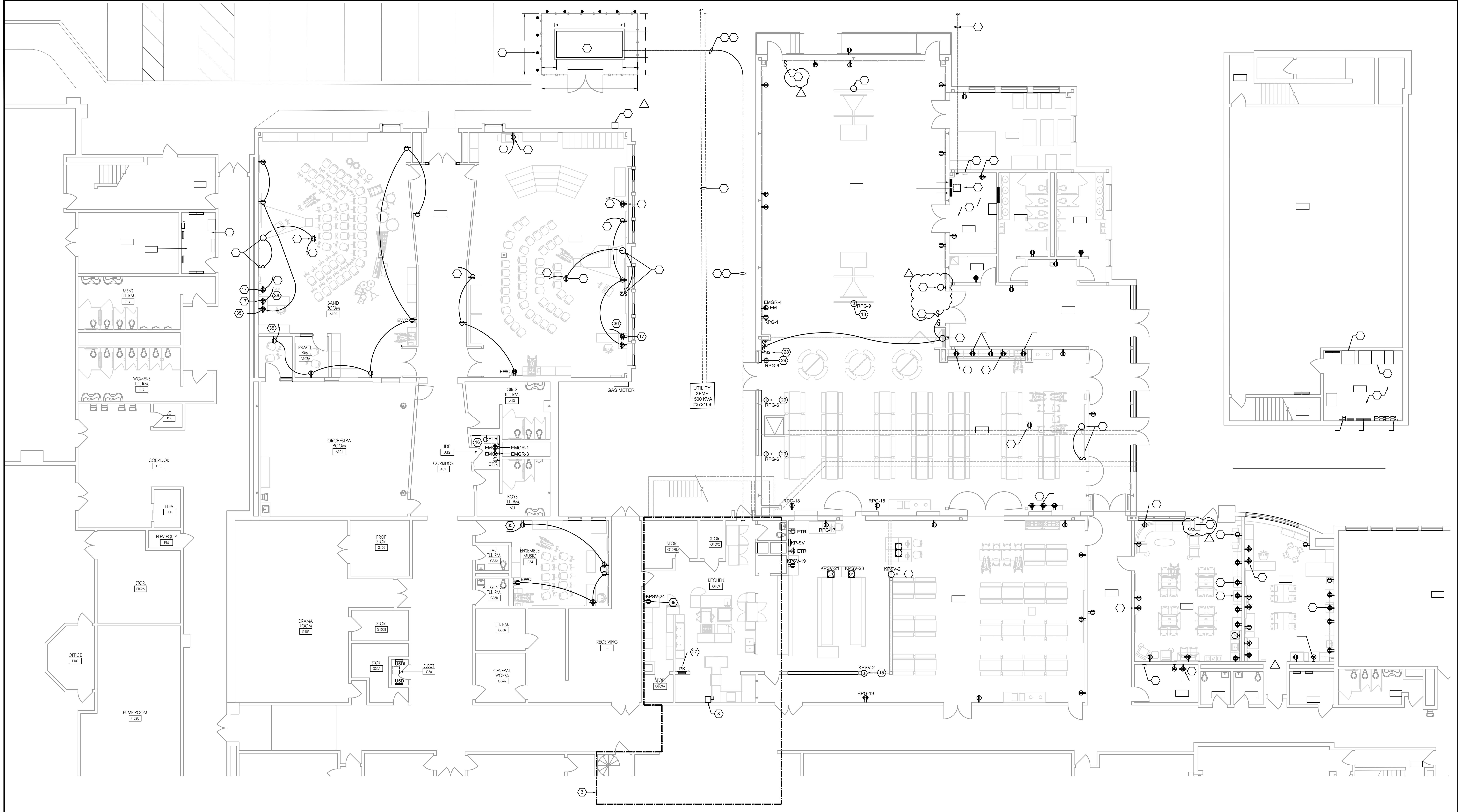
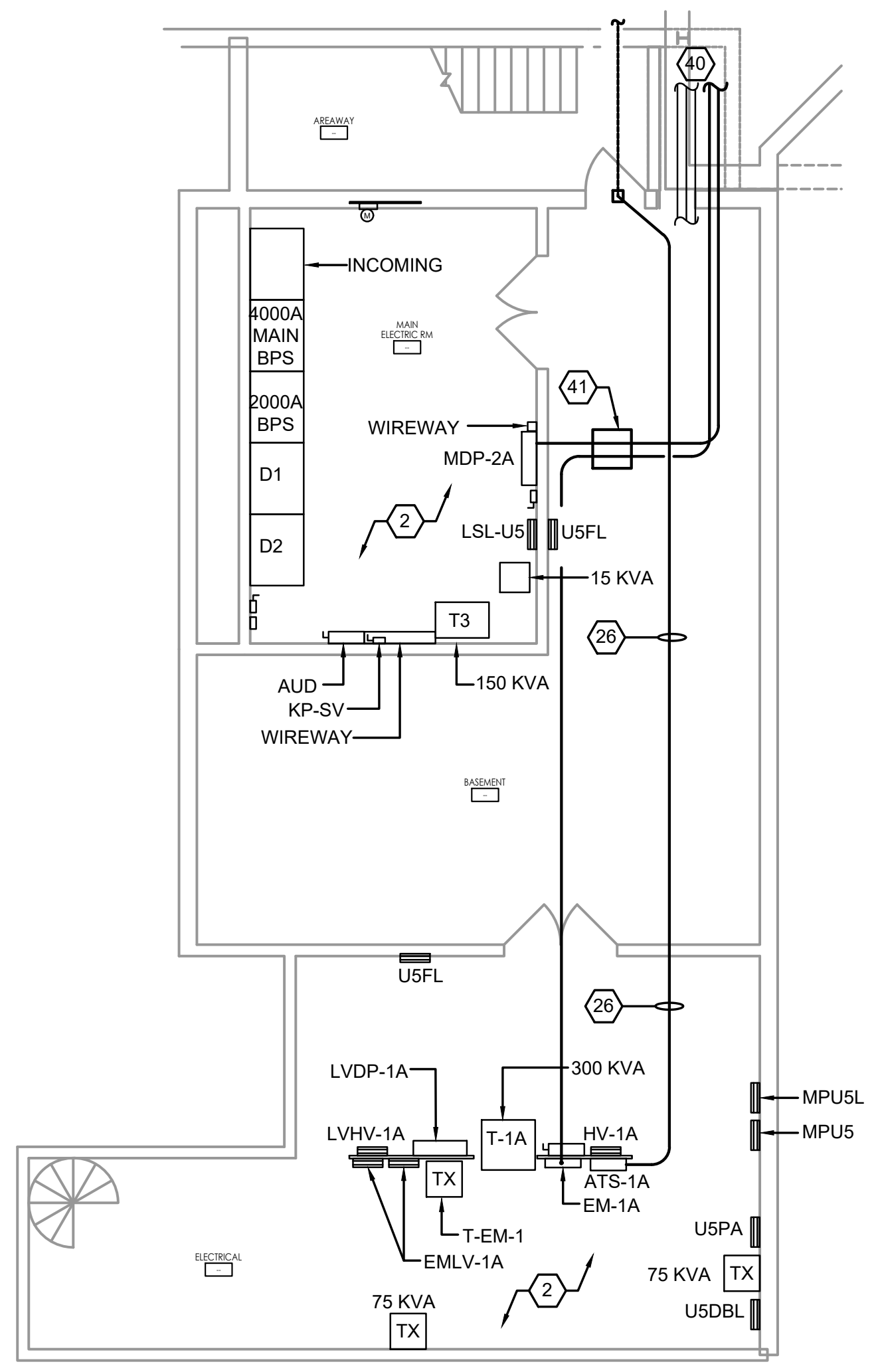


FIRST FLOOR POWER PLAN - BLOCK B

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

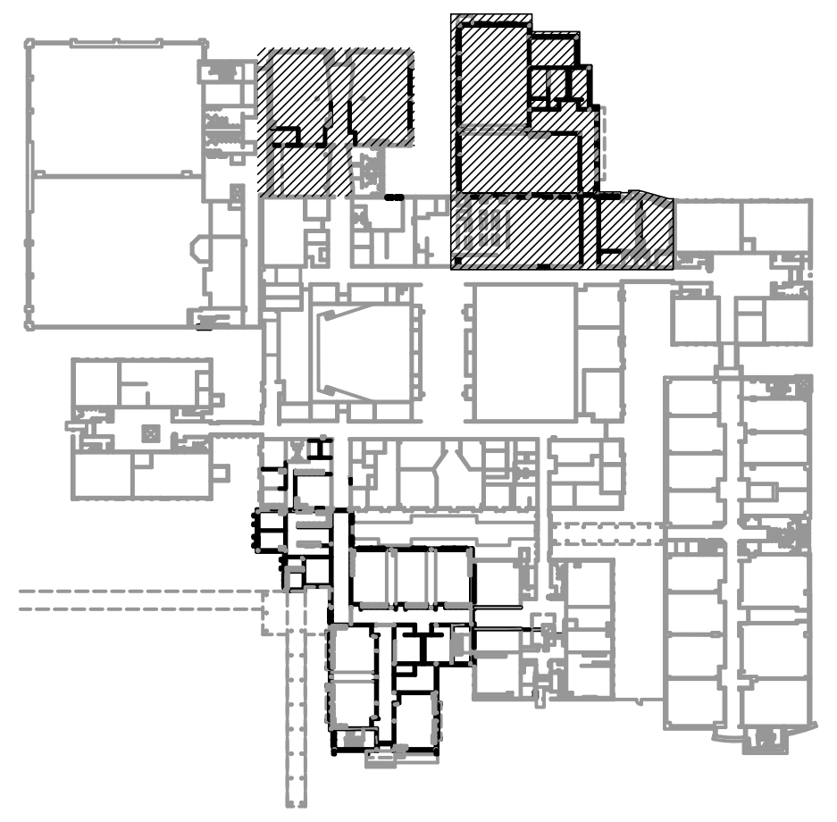


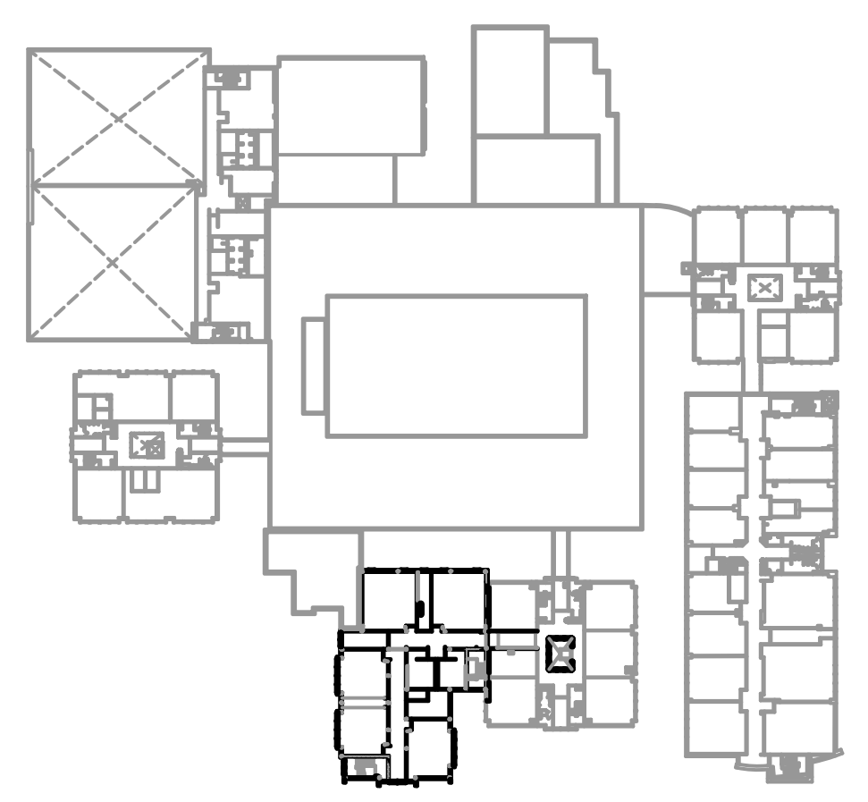
BASEMENT PART PLAN - BLOCK B

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

KEY NOTES

1. NEW PANELS AND TRANSFORMER LOCATION. REFER TO ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. ALL EQUIPMENT THIS ROOM IS SHOWN FOR LOCATION / REFERENCE AND IS EXISTING TO REMAIN.
3. REFER TO BASEMENT PART PLAN BLOCK B THIS DRAWING.
4. REFER TO BASEMENT PART PLAN BLOCK E THIS DRAWING.
5. EXISTING BLOCK E DISTRIBUTION SWITCHBOARD 480Y/277V, 3 PHASE, 4 WIRE, 2000A SQUARE D QED-2 SWITCHBOARD.
6. EXISTING 208Y/120V, 3 PHASE, 4 WIRE, 800A QED SWITCHBOARD.
7. MOTORIZED SHADE MECHONET POWER STATION. PROVIDE ALL 120V POWER WIRING AND ALL LOW VOLTAGE WIRING AS REQUIRED FOR THE SYSTEM. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS AND INSTALL PER THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND SHOP DRAWINGS FOR A COMPLETE AND OPERATIONAL SYSTEM.
8. DISCONNECT SWITCH FOR NEW DISHWASHING EQUIPMENT.
9. DUPLEX RECEPTACLE FOR UNDERCOUNTER REFRIGERATOR. FIELD COORDINATE EXACT LOCATION AND MOUNTING HEIGHT.
10. DUPLEX RECEPTACLE FOR MICROWAVE OVEN. FIELD COORDINATE EXACT LOCATION AND MOUNTING HEIGHT.
11. NEW 250KW GENERATOR. REFER TO CIVIL SITE PLAN FOR EXACT LOCATION. REFER TO ONE LINE DIAGRAM AND DETAILS FOR ADDITIONAL GENERATOR AND ENCLOSURE AREA INFORMATION. FIELD VERIFY EXACT CONDUIT ROUTING WITH THE SITE CONTRACTOR AND EXISTING FIELD CONDITIONS. DIMENSIONS SHOWN ARE APPROXIMATE AND BASED ON THE BASIS OF DESIGN GENERATOR. CONTRACTOR SHALL VERIFY GENERATOR SIZE WITH APPROVED SHOP DRAWINGS. GENERATOR MUST FIT WITHIN THE FENCE ENCLOSURE AREA SHOWN AND MEET ALL CODE REQUIRED CLEARANCES.
12. JUNCTION BOX AND POWER WIRING FOR OPERABLE MOTORIZED PARTITION. PROVIDE ALL REQUIRED DEVICES, WIRING, AND CONDUIT AND INSTALL PER THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. FIELD VERIFY EXACT LOCATIONS OF DEVICES.
13. JUNCTION BOX AND POWER WIRING FOR MOTORIZED BACKSTOP. COORDINATE EXACT WIRING REQUIREMENTS AND CONTROL WIRING WITH THE EQUIPMENT VENDOR. CONTROLLED VIA PORTER POWR-TOUCH4.
14. GENERATOR FEEDERS, BLOCK HEATER, BATTERY CHARGER, AND CONTROL WIRING CONDUITS. REFER TO ONE LINE DIAGRAM AND PANEL SCHEDULES FOR QUANTITIES AND SIZES.
15. JUNCTION BOX AND POWER WIRING FOR MOTORIZED COILING DOOR. PROVIDE ALL REQUIRED DEVICES, WIRING, AND CONDUIT AND INSTALL PER THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. FIELD VERIFY EXACT LOCATIONS OF DEVICES.
16. EXISTING IDF ROOM. ALL EXISTING EQUIPMENT, RACKS, ETC. TO REMAIN. PROVIDE NEW QUAD RECEPTACLE AND UPS RECEPTACLE AS SHOWN. FIELD COORDINATE EXACT LOCATION AND NEMA CONFIGURATION WITH THE OWNER.
17. QUAD OUTLET FOR CLASSROOM AUDIO CABINET. FIELD VERIFY EXACT MOUNTING HEIGHT AND LOCATION.
18. DEDICATED MICROWAVE OVEN RECEPTACLE.
19. DEDICATED COPY MACHINE RECEPTACLE.
20. NEW15 KVA TRANSFORMER T-EMG TRAPEZE MOUNTED FROM STRUCTURAL CEILING.
21. QUAD OUTLET FOR GYMNASIUM AUDIO CABINET. FIELD VERIFY EXACT MOUNTING HEIGHT AND LOCATION.
22. CHARGING STATION RECEPTACLES WITH INTEGRAL USB PORTS.
23. APPROXIMATE LOCATION OF EXISTING UNDERGROUND PRIMARY DUCTBANK. CONTRACTOR SHALL ENGAGE THE SERVICES OF A UTILITY MARKOUT COMPANY IN ADDITION TO NEW JERSEY ONE CALL.
24. CONTRACTOR SHALL USE CAUTION AND HAND DIG IN THIS AREA DUE TO EXISTING UNDERGROUND UTILITIES. REFER TO CIVIL SITE PLAN FOR EXISTING AND NEW UNDERGROUND UTILITIES.
25. CONCRETE VEHICULAR BOLLARD. SEE DETAIL SHEETS (TYPICAL).
26. ROUTE POWER AND CONTROL CONDUITS TO EXISTING AUTOMATIC TRANSFER SWITCH (ATS) IN BASEMENT ELECTRIC ROOM TIGHT TO CEILING AND OFFSET AS REQUIRED DUE TO EXISTING CEILING CONDITIONS. PROVIDE ALL REQUIRED PULLBOXES PER NEC.
27. EXISTING KITCHEN PANEL PK TO REMAIN.
28. MOTORIZED SHADE LOW VOLTAGE CONTROLLER WALL SWITCH(S). PROVIDE LOW VOLTAGE WIRING TO SHADES, AND FROM SHADES TO THE MECHONET POWER STATION. FIELD VERIFY EXACT LOCATION. REFER TO MOTORIZED SHADE SHOP DRAWINGS FOR FULL EXTENT OF THE WORK.
29. SIMPLEX NEMA 5-15R RECEPTACLE FOR MOTORIZED SHADE POWER. FIELD COORDINATE EXACT REQUIREMENTS WITH THE SHADE MANUFACTURER. PROVIDE ALL JUNCTION BOXES, RECEPTACLES, WIRING AND CONDUIT REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION. REFER TO MANUFACTURER'S SHOP DRAWINGS FOR EXACT REQUIREMENTS AND LOCATIONS. TYPICAL FOR ALL.
30. PORTER POWR-TOUCH 4 CONTROLLER LOCATION FOR MOTORIZED BACKSTOPS AND DIVIDER CURTAIN CONTROL. PROVIDE 2-GANG JUNCTION BOX AND FIELD VERIFY EXACT LOCATION WITH THE ARCHITECT. COORDINATE EXACT WIRING REQUIREMENTS AND CONTROL WIRING WITH THE EQUIPMENT VENDOR.
31. CEILING MOUNTED PROJECTOR AND RECEPTACLE.
32. JUNCTION BOX FOR PROJECTOR SCREEN POWER. FIELD COORDINATE EXACT LOCATION AND CONTROLS WITH THE EQUIPMENT VENDOR. PROVIDE KEY SWITCH OPERATOR (OR LOCKING COVER FOR MANUFACTURER SUPPLIED SWITCH).
33. SHORT THROW PROJECTOR RECEPTACLE. FIELD VERIFY MOUNTING HEIGHT WITH PROJECTOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
34. IDF QUAD OUTLET AND UPS OUTLET. FIELD COORDINATE EXACT LOCATION AND NEMA CONFIGURATION WITH THE OWNER.
35. HOME RUN TO EXISTING CIRCUIT MADE AVAILABLE BY DEMOLITION THIS ROOM OR AREA - 3#12 MC.
36. DEDICATED HOME RUN FOR AV CABINET TO EXISTING CIRCUIT MADE AVAILABLE BY DEMOLITION THIS ROOM OR AREA - 3#12 MC.
37. DEDICATED HOME RUN FOR COPY MACHINE TO EXISTING CIRCUIT MADE AVAILABLE BY DEMOLITION THIS ROOM OR AREA - 3#12 MC.
38. TWO (2) 2" EMPTY CONDUITS WITH DRAG LINES OUT TO HANDHOLE AT FUTURE WALK-IN BOX AREA ON SITE. REFER TO DRAWING E3.4 FOR CONTINUATION.
39. RELOCATED ICE MACHINE. PROVIDE NEW RECEPTACLE AS SHOWN.
40. CONDUITS TO PIPE TUNNEL. REFER TO DRAWING E3.4 AND ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
41. PULLBOX SIZED PER NEC. FIELD COORIDNATE EXACT LOCATION.
42. GENERATOR REMOTE EMERGENCY-STOP SWITCH LOCATION WITH DUAL ACTION SOUNDING COVER AND LABELED "EMERGENCY GENERATOR SHUT-DOWN".





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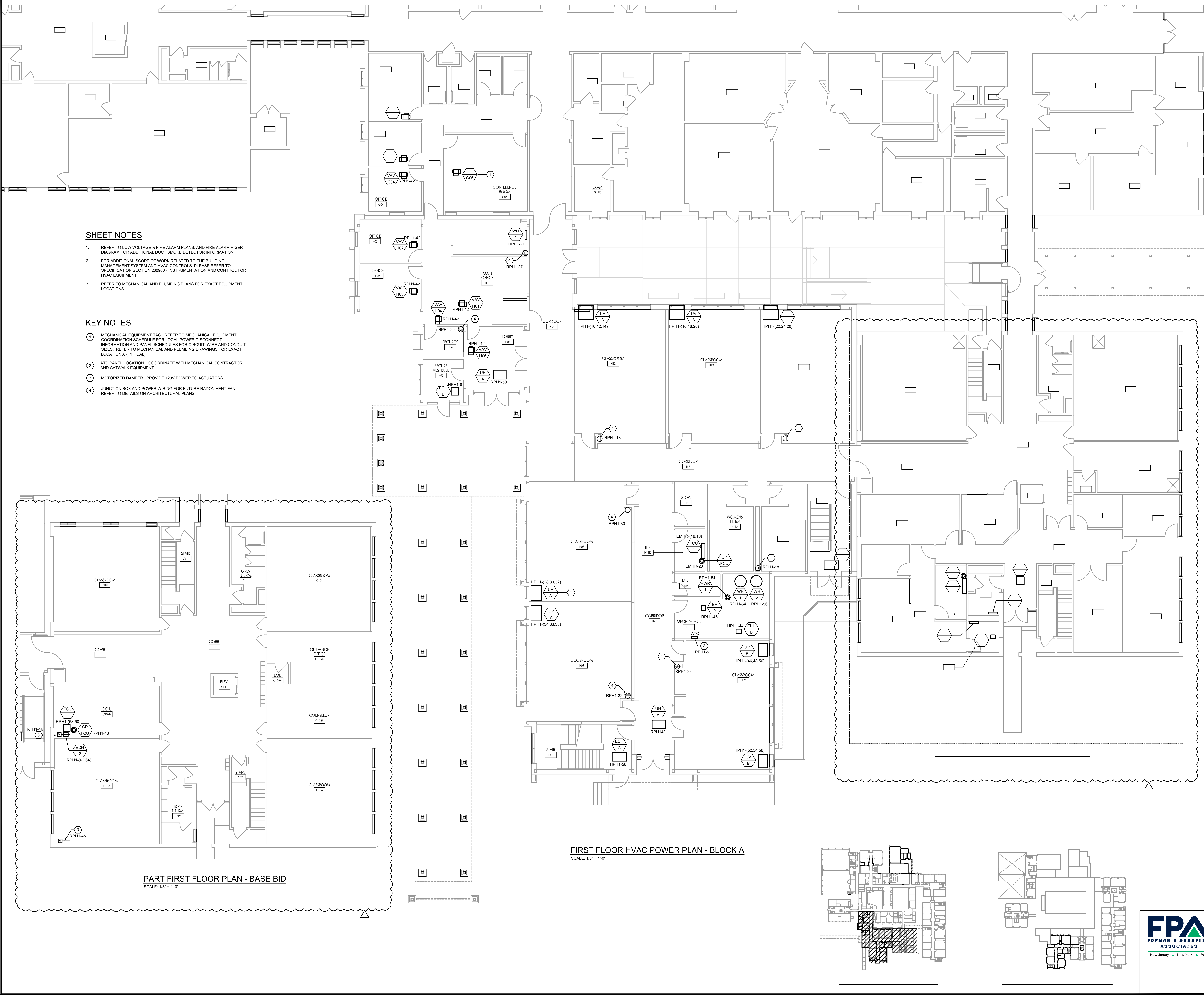

SHEET NOTES

1. REFER TO LOW VOLTAGE & FIRE ALARM PLANS, AND FIRE ALARM RISER DIAGRAM FOR ADDITIONAL DUCT SMOKE DETECTOR INFORMATION.
2. FOR ADDITIONAL SCOPE OF WORK RELATED TO THE BUILDING MANAGEMENT SYSTEM AND HVAC CONTROLS, PLEASE REFER TO SPECIFICATION SECTION 230900 - INSTRUMENTATION AND CONTROL FOR HVAC EQUIPMENT
3. REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT EQUIPMENT LOCATIONS.

KEY NOTES

1 MECHANICAL EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT COORDINATION SCHEDULE FOR LOCAL POWER DISCONNECT INFORMATION AND PANEL SCHEDULES FOR CIRCUIT, WIRE AND CONDUIT SIZES. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS. (TYPICAL).

2 ATC PANEL LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR AND CATWALK EQUIPMENT.

3 MOTORIZED DAMPER. PROVIDE 120V POWER TO ACTUATORS.

4 JUNCTION BOX AND POWER WIRING FOR FUTURE RADON VENT FAN. REFER TO DETAILS ON ARCHITECTURAL PLANS.

FIRST FLOOR HVAC POWER PLAN - BLOCK A

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

PART FIRST FLOOR PLAN - BASE BID

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

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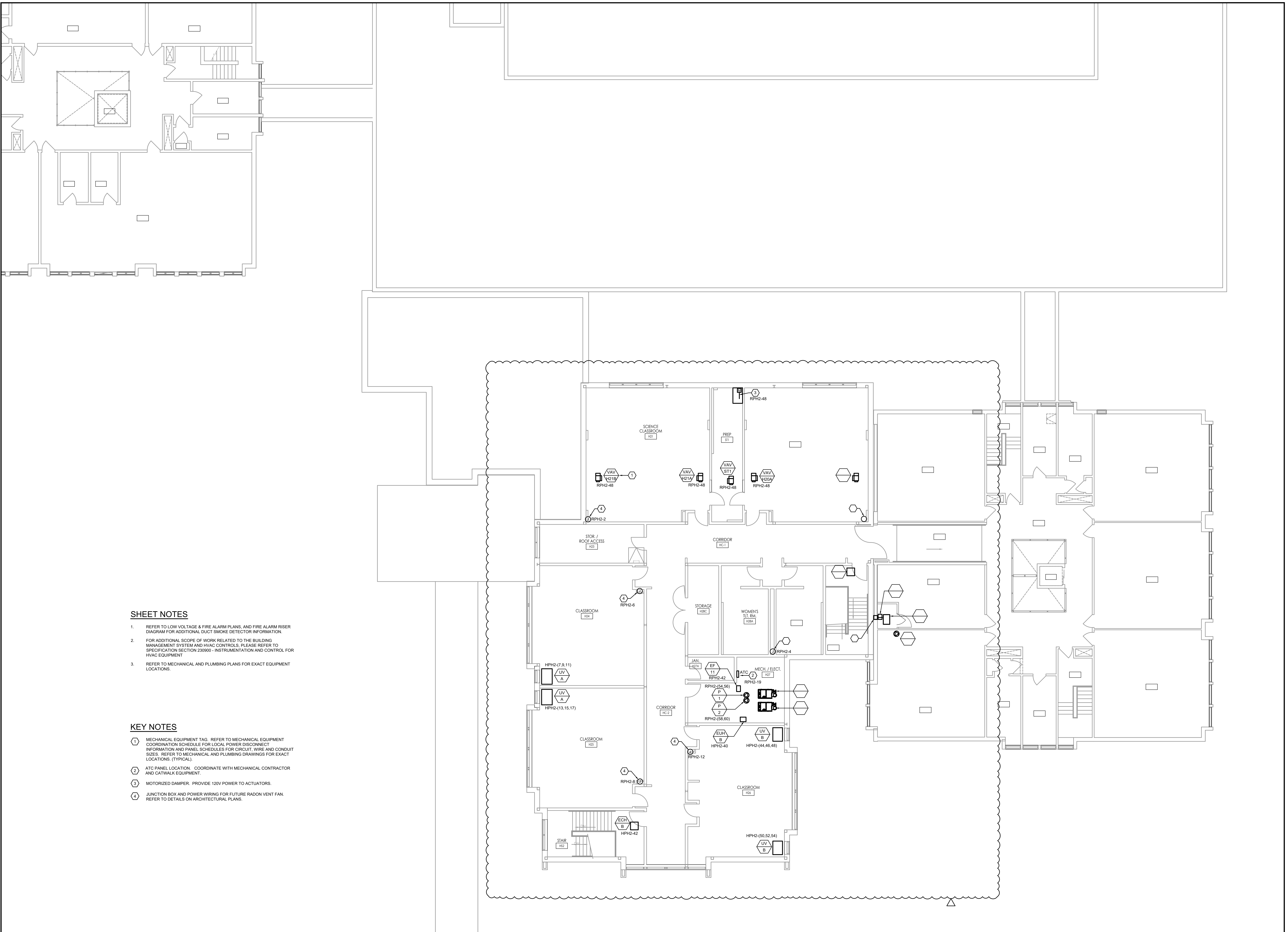

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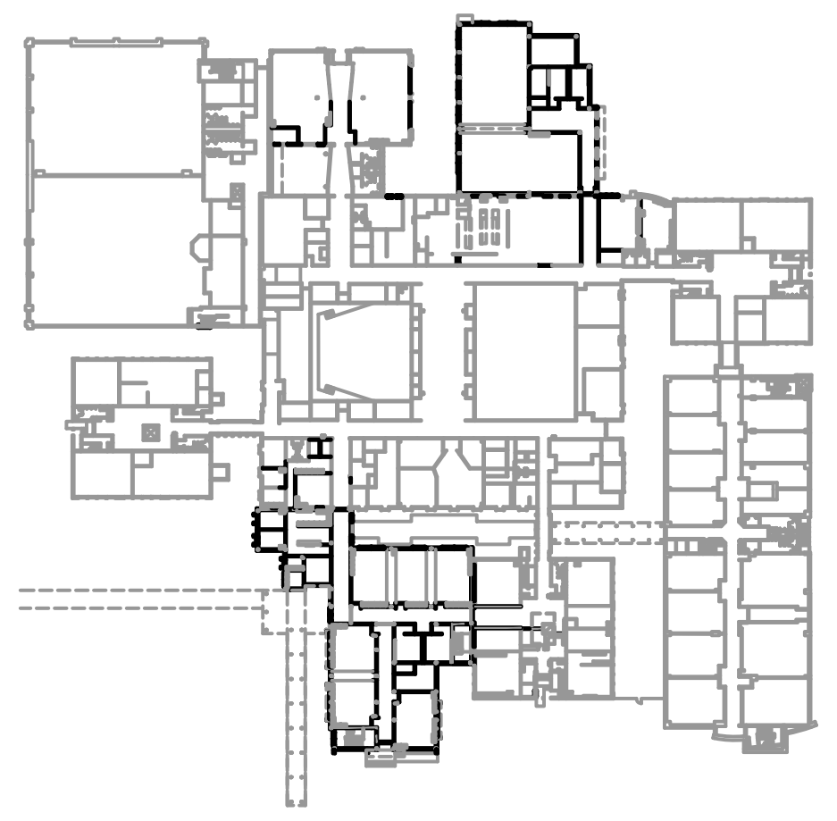
② ATC PANEL LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR AND CATWALK EQUIPMENT.

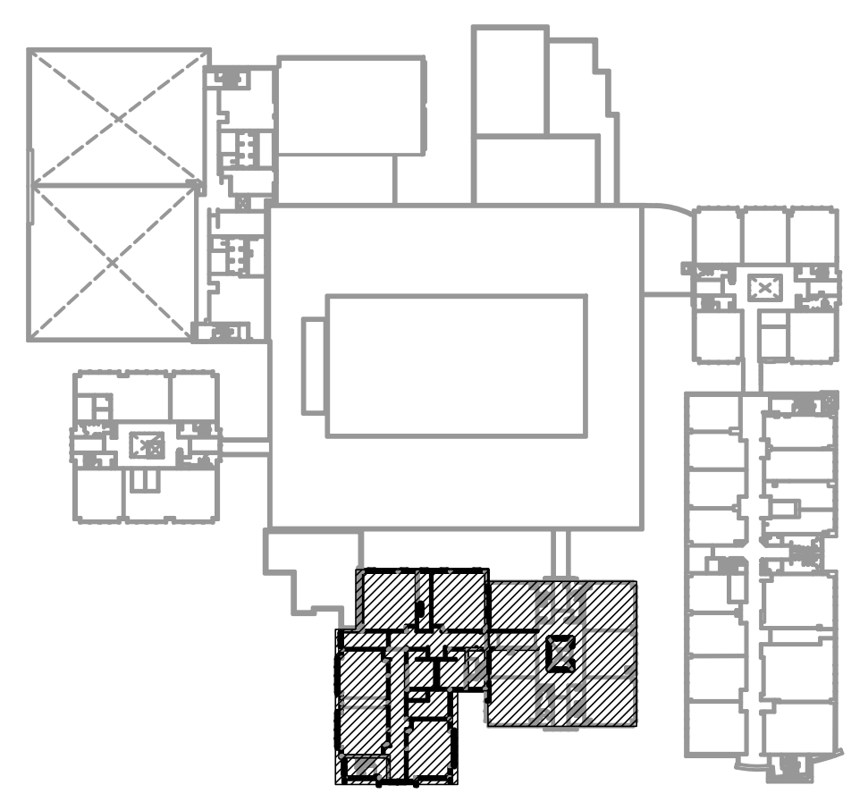
③ MOTORIZED DAMPER. PROVIDE 120V POWER TO ACTUATORS.

④ JUNCTION BOX AND POWER WIRING FOR FUTURE RADON VENT FAN. REFER TO DETAILS ON ARCHITECTURAL PLANS.

SECOND FLOOR HVAC POWER PLAN - BLOCK A

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





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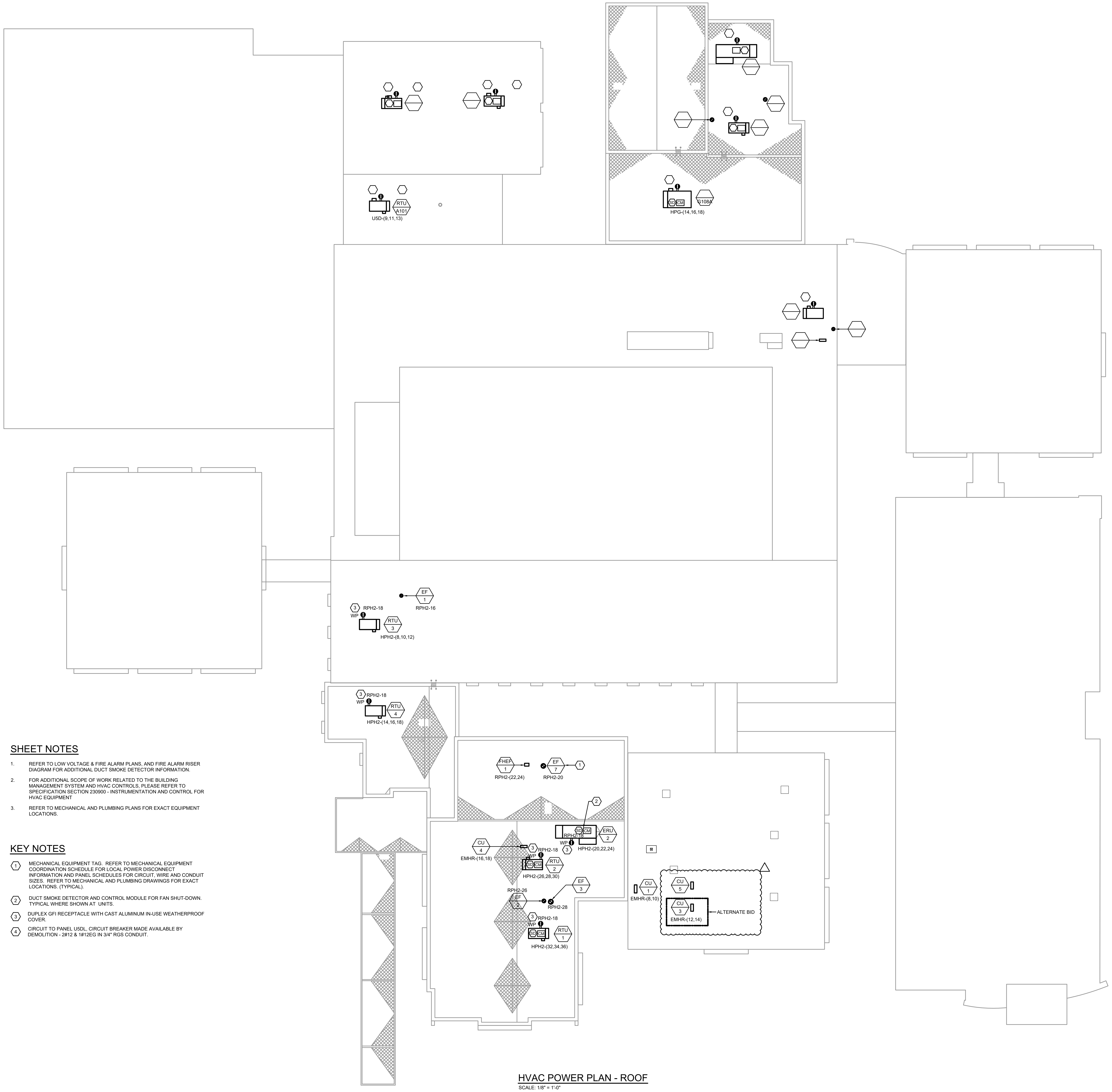

SHEET NOTES

1. REFER TO LOW VOLTAGE & FIRE ALARM PLANS, AND FIRE ALARM RISER DIAGRAM FOR ADDITIONAL DUCT SMOKE DETECTOR INFORMATION.
2. FOR ADDITIONAL SCOPE OF WORK RELATED TO THE BUILDING MANAGEMENT SYSTEM AND HVAC CONTROLS, PLEASE REFER TO SPECIFICATION SECTION 230900 - INSTRUMENTATION AND CONTROL FOR HVAC EQUIPMENT
3. REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT EQUIPMENT LOCATIONS.

KEY NOTES

⟨1⟩ MECHANICAL EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT COORDINATION SCHEDULE FOR LOCAL POWER DISCONNECT INFORMATION AND PANEL SCHEDULES FOR CIRCUIT, WIRE AND CONDUIT SIZES. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS. (TYPICAL).

⟨2⟩ DUCT SMOKE DETECTOR AND CONTROL MODULE FOR FAN SHUT-DOWN. TYPICAL WHERE SHOWN AT UNITS.

⟨3⟩ DUPLEX GFI RECEPTACLE WITH CAST ALUMINUM IN-USE WEATHERPROOF COVER.

⟨4⟩ CIRCUIT TO PANEL U5DL, CIRCUIT BREAKER MADE AVAILABLE BY DEMOLITION - 2#12 & 1#12EG IN 3/4" RGS CONDUIT.

HVAC POWER PLAN - ROOF

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

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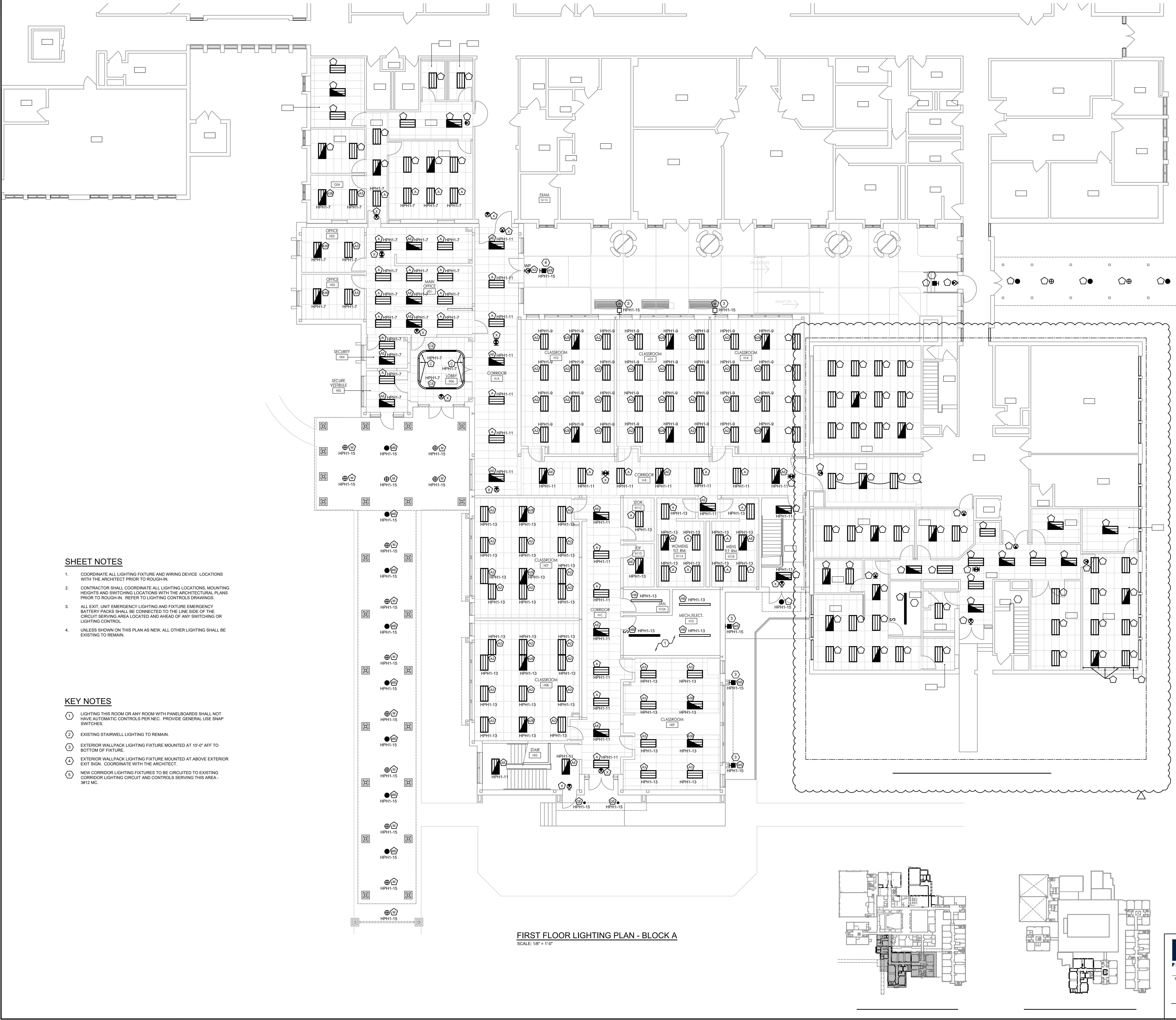

FIRST FLOOR LIGHTING PLAN - BLOCK A

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

SHEET NOTES

1. COORDINATE ALL LIGHTING FIXTURE AND WIRING DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL COORDINATE ALL LIGHTING LOCATIONS, MOUNTING HEIGHTS AND SWITCHING LOCATIONS WITH THE ARCHITECTURAL PLANS PRIOR TO ROUGH-IN. REFER TO LIGHTING CONTROLS DRAWINGS.
3. ALL EXIT, UNIT EMERGENCY LIGHTING AND FIXTURE EMERGENCY BATTERY PACKS SHALL BE CONNECTED TO THE LINE SIDE OF THE CIRCUIT SERVING AREA LOCATED AND AHEAD OF ANY SWITCHING OR LIGHTING CONTROL.
4. UNLESS SHOWN ON THIS PLAN AS NEW, ALL OTHER LIGHTING SHALL BE EXISTING TO REMAIN.

KEY NOTES

1. LIGHTING THIS ROOM OR ANY ROOM WITH PANELBOARDS SHALL NOT HAVE AUTOMATIC CONTROLS PER NEC. PROVIDE GENERAL USE SNAP SWITCHES.
2. EXISTING STAIRWELL LIGHTING TO REMAIN.
3. EXTERIOR WALLPACK LIGHTING FIXTURE MOUNTED AT 10'-0" AFF TO BOTTOM OF FIXTURE.
4. EXTERIOR WALLPACK LIGHTING FIXTURE MOUNTED AT ABOVE EXTERIOR EXIT SIGN. COORDINATE WITH THE ARCHITECT.
5. NEW CORRIDOR LIGHTING FIXTURES TO BE CIRCUITED TO EXISTING CORRIDOR LIGHTING CIRCUIT AND CONTROLS SERVING THIS AREA - 3#12 MC.

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SHEET NOTES

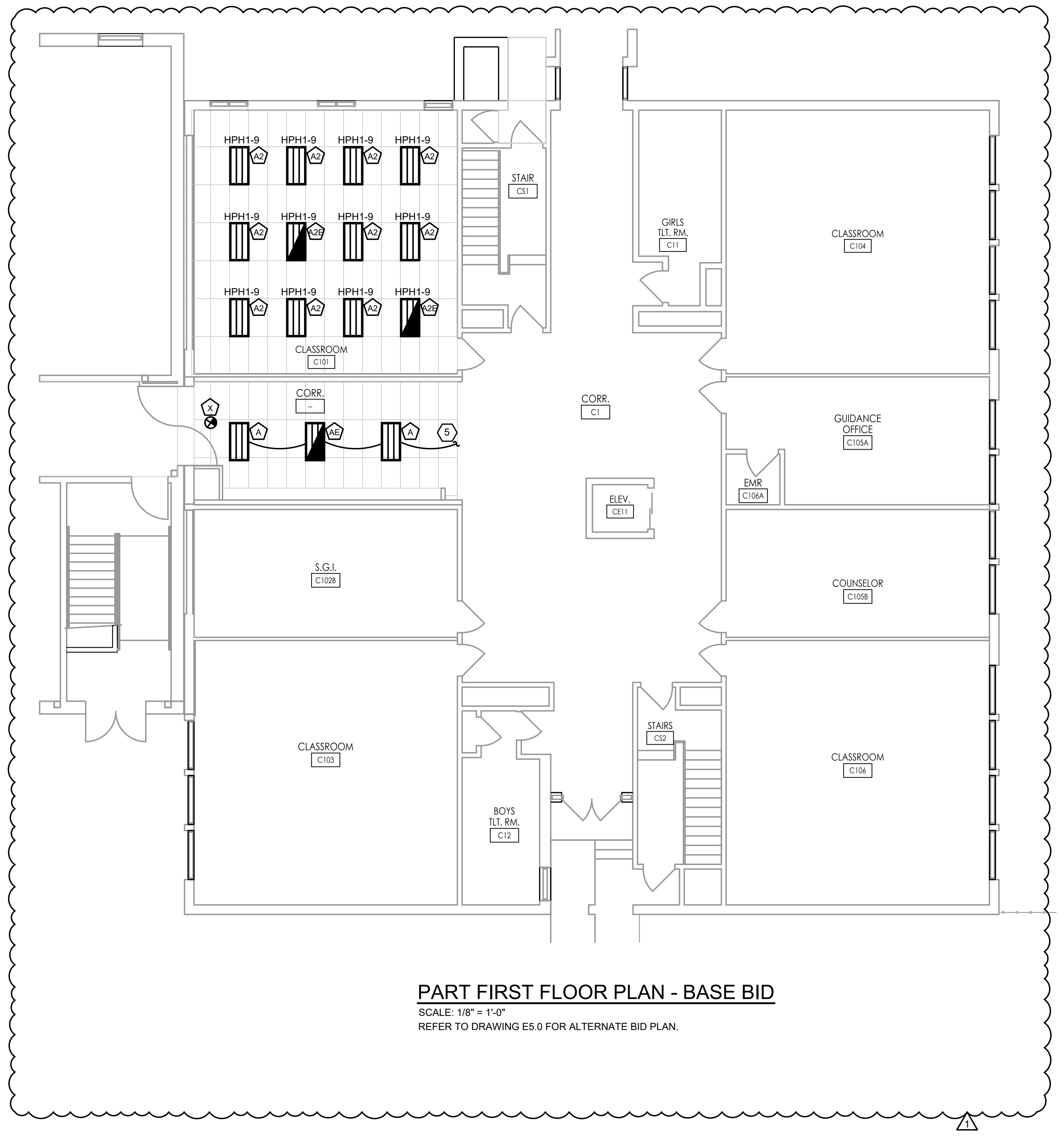
1. COORDINATE ALL LIGHTING FIXTURE AND WIRING DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL COORDINATE ALL LIGHTING LOCATIONS, MOUNTING HEIGHTS AND SWITCHING LOCATIONS WITH THE ARCHITECTURAL PLANS PRIOR TO ROUGH-IN. REFER TO LIGHTING CONTROLS DRAWINGS.
3. ALL EXIT, UNIT EMERGENCY LIGHTING AND FIXTURE EMERGENCY BATTERY PACKS SHALL BE CONNECTED TO THE LINE SIDE OF THE CIRCUIT SERVING AREA LOCATED AND AHEAD OF ANY SWITCHING OR LIGHTING CONTROL.
4. UNLESS SHOWN ON THIS PLAN AS NEW, ALL OTHER LIGHTING SHALL BE EXISTING TO REMAIN.

KEY NOTES

① LIGHTING THIS ROOM OR ANY ROOM WITH PANELBOARDS SHALL NOT HAVE AUTOMATIC CONTROLS PER NEC. PROVIDE GENERAL USE SNAP SWITCHES.

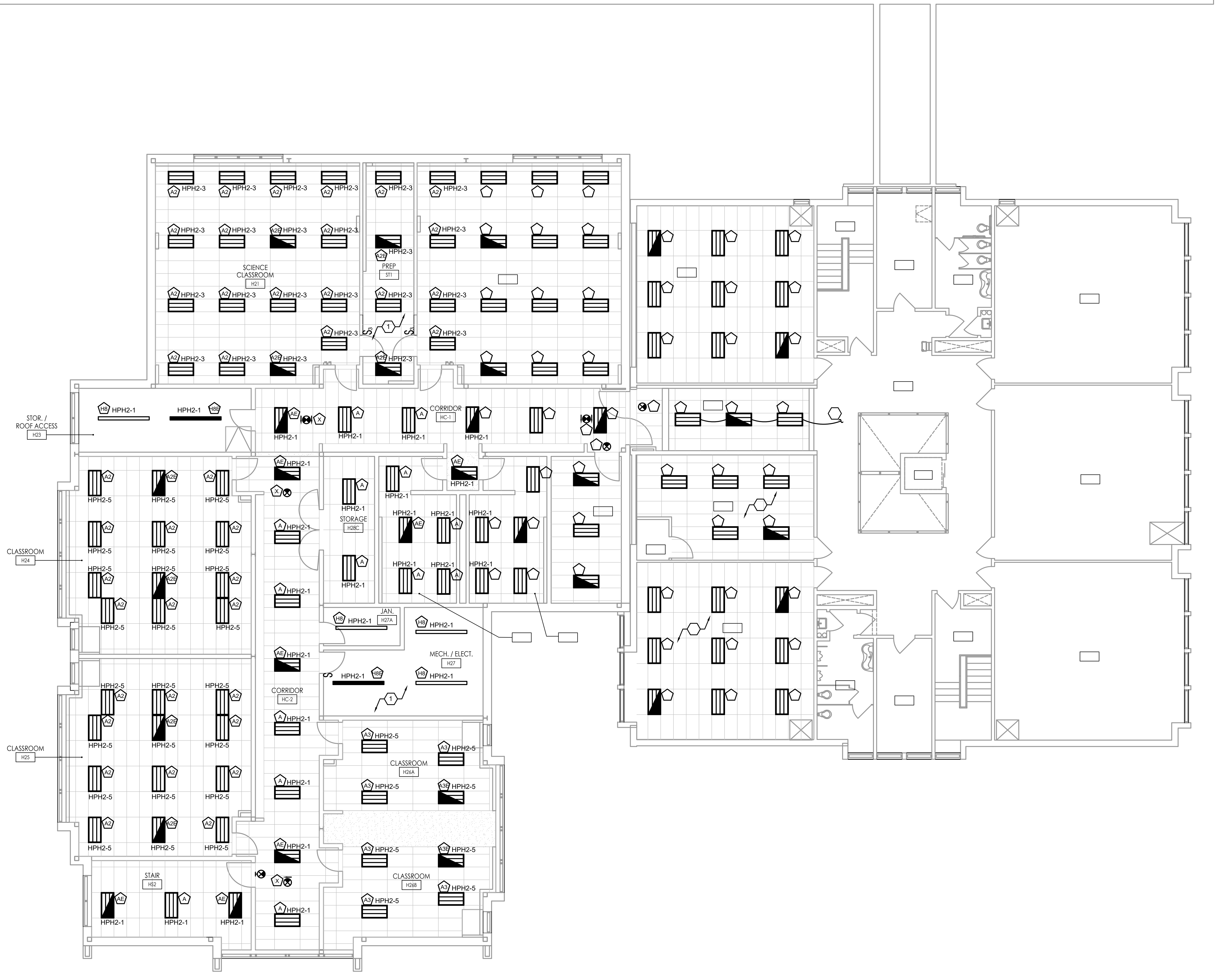
② NEW CORRIDOR LIGHTING FIXTURES TO BE CIRCUITED TO EXISTING CORRIDOR LIGHTING CIRCUIT AND CONTROLS SERVING THIS AREA - 3#12 MC.

③ NEW CLASSROOM LIGHTING FIXTURES TO BE CIRCUITED TO EXISTING CLASSROOM LIGHTING CIRCUIT MADE AVAILABLE BY DEMOLITION OF OLD FIXTURES - 3#12 MC. PROVIDE NEW CONTROLS AS SHOWN ON LIGHTING CONTROL PLANS.



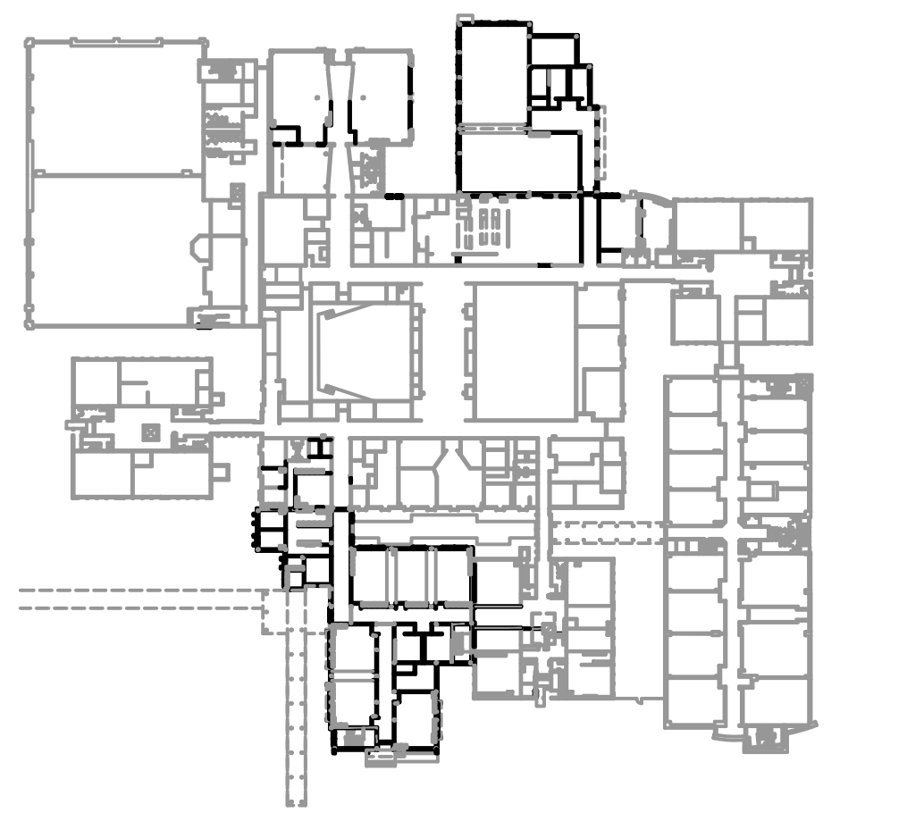
PART FIRST FLOOR PLAN - BASE BID

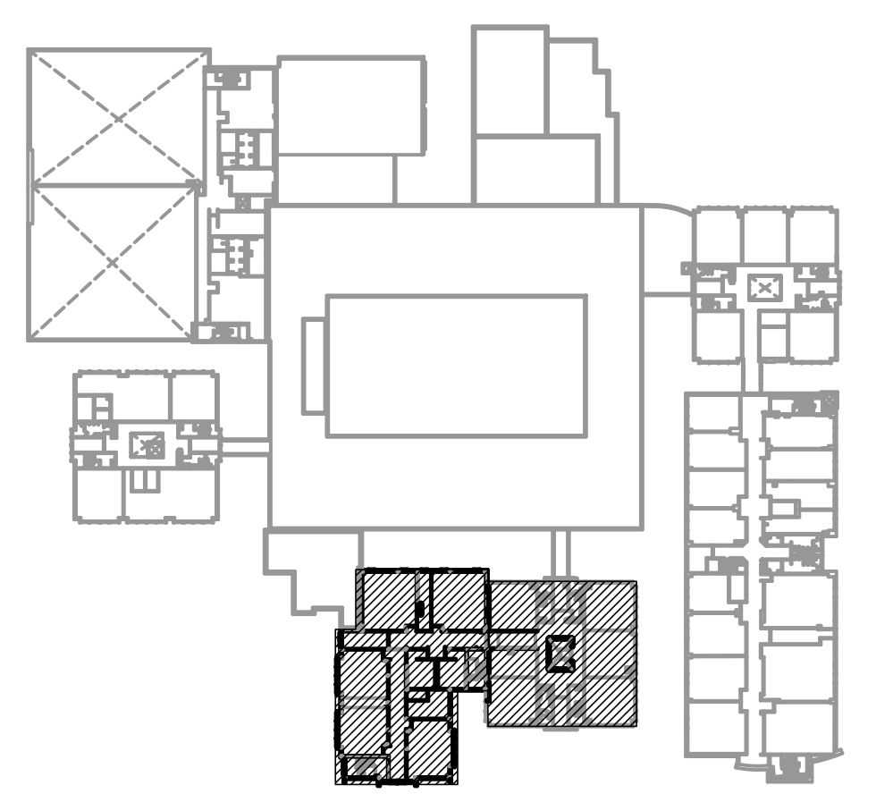
SCALE: 1/8" = 1'-0"
REFER TO DRAWING E5.0 FOR ALTERNATE BID PLAN.



SECOND FLOOR LIGHTING PLAN - BLOCK A

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





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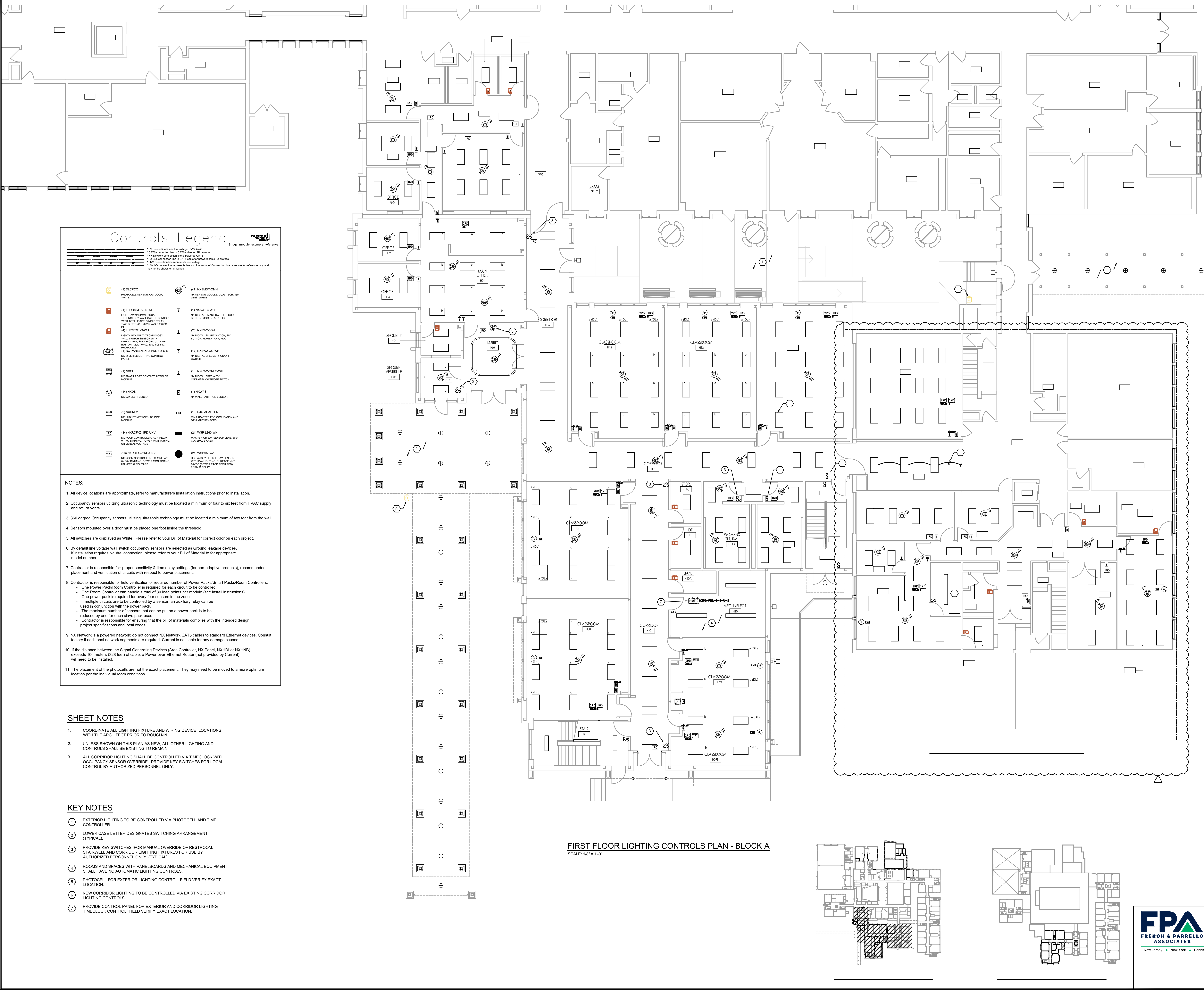

FIRST FLOOR LIGHTING CONTROLS PLAN - BLOCK A

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

Controls Legend

POE SWITCH ID
POE PORT ID
BRIDGE ID

*Bridge module example reference.

* LV connection line is low voltage 18-22 AWG
* CAT5 connection line is CAT5 cable for SP protocol
* NX Network connection line is powered CAT5
* FX Bus connection line is CAT5 cable for network cable FX protocol
* LNV connection line represents line voltage
* LV-LNV connection represents line and low voltage *Connection line types are for reference only and may not be shown on drawings.

Device	Description
(1) DLCPCO	PHOTOCELL SENSOR, OUTDOOR, WHITE
(1) LHRDMMTS2-N-WH	LIGHTHAWK2 DIMMER DUAL TECHNOLOGY WALL SWITCH SENSOR WITH INTELLIDAPT, SINGLE RELAY, TWO BUTTONS, 120/277VAC, 1000 SQ. FT.
(4) LHRMTS1-G-WH	LIGHTHAWK MULTI-TECHNOLOGY WALL SWITCH SENSOR WITH INTELLIDAPT, SINGLE CIRCUIT, ONE BUTTON, 120/277VAC, 1000 SQ. FT., PHOTOCELL
(1) NX PANEL=NXP2-PNL-8-8-U-S	NXP2 SERIES LIGHTING CONTROL PANEL
(1) NXCI	NX SMART PORT CONTACT INTEFACE MODULE
(14) NXDS	NX DAYLIGHT SENSOR
(2) NXHNB2	NX HUBNET NETWORK BRIDGE MODULE
(34) NXRCFX2-1RD-UNV	NX ROOM CONTROLLER, FX, 1 RELAY, 0 - 10V DIMMING, POWER MONITORING, UNIVERSAL VOLTAGE
(23) NXRCFX2-2RD-UNV	NX ROOM CONTROLLER, FX, 2 RELAY, 0 - 10V DIMMING, POWER MONITORING, UNIVERSAL VOLTAGE
(47) NXSMDT-OMNI	NX SENSOR MODULE, DUAL TECH, 360° LENS, WHITE
(1) NXSW2-4-WH	NX DIGITAL SMART SWTICH, FOUR BUTTON, MOMENTARY, PILOT
(26) NXSW2-6-WH	NX DIGITAL SMART SWTICH, SIX BUTTON, MOMENTARY, PILOT
(17) NXSW2-OO-WH	NX DIGITAL SPECIALTY ON/OFF SWITCH
(16) NXSW2-ORLO-WH	NX DIGITAL SPECIALTY ON/RAISE/LOWER/OFF SWITCH
(1) NXWPS	NX WALL PARTITION SENSOR
(19) RJ45ADAPTER	RJ45 ADAPTER FOR OCCUPANCY AND DAYLIGHT SENSORS
(21) WSP-L360-WH	WASP2 HIGH BAY SENSOR LENS, 360° COVERAGE AREA
(21) WSPSM24V	HCS WASP2 FL. HIGH BAY SENSOR WITH DAYLIGHTING, SURFACE MNT, 24VDC (POWER PACK REQUIRED), FORM C RELAY

NOTES:

1. All device locations are approximate, refer to manufacturers installation instructions prior to installation.
2. Occupancy sensors utilizing ultrasonic technology must be located a minimum of four to six feet from HVAC supply and return vents.
3. 360 degree Occupancy sensors utilizing ultrasonic technology must be located a minimum of two feet from the wall.
4. Sensors mounted over a door must be placed one foot inside the threshold.
5. All switches are displayed as White. Please refer to your Bill of Material for correct color on each project.
6. By default line voltage wall switch occupancy sensors are selected as Ground leakage devices. If installation requires Neutral connection, please refer to your Bill of Material to for appropriate model number.
7. Contractor is responsible for: proper sensitivity & time delay settings (for non-adaptive products), recommended placement and verification of circuits with respect to power placement.
8. Contractor is responsible for field verification of required number of Power Packs/Smart Packs/Room Controllers:
    - One Power Pack/Room Controller is required for each circuit to be controlled.
    - One Room Controller can handle a total of 30 load points per module (see install instructions).
    - One power pack is required for every four sensors in the zone.
    - If multiple circuits are to be controlled by a sensor, an auxiliary relay can be used in conjunction with the power pack.
    - The maximum number of sensors that can be put on a power pack is to be reduced by one for each slave pack used.
    - Contractor is responsible for ensuring that the bill of materials complies with the intended design, project specifications and local codes.
9. NX Network is a powered network; do not connect NX Network CAT5 cables to standard Ethernet devices. Consult factory if additional network segments are required. Current is not liable for any damage caused.
10. If the distance between the Signal Generating Devices (Area Controller, NX Panel, NXHDI or NXHNB) exceeds 100 meters (328 feet) of cable, a Power over Ethernet Router (not provided by Current) will need to be installed.
11. The placement of the photocells are not the exact placement. They may need to be moved to a more optimum location per the individual room conditions.

SHEET NOTES

1. COORDINATE ALL LIGHTING FIXTURE AND WIRING DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. UNLESS SHOWN ON THIS PLAN AS NEW, ALL OTHER LIGHTING AND CONTROLS SHALL BE EXISTING TO REMAIN.
3. ALL CORRIDOR LIGHTING SHALL BE CONTROLLED VIA TIMECLOCK WITH OCCUPANCY SENSOR OVERRIDE. PROVIDE KEY SWITCHES FOR LOCAL CONTROL BY AUTHORIZED PERSONNEL ONLY.

KEY NOTES

1. EXTERIOR LIGHTING TO BE CONTROLLED VIA PHOTOCELL AND TIME CONTROLLER.
2. LOWER CASE LETTER DESIGNATES SWITCHING ARRANGEMENT (TYPICAL).
3. PROVIDE KEY SWITCHES IFOR MANUAL OVERRIDE OF RESTROOM, STAIRWELL AND CORRIDOR LIGHTING FIXTURES FOR USE BY AUTHORIZED PERSONNEL ONLY. (TYPICAL).
4. ROOMS AND SPACES WITH PANELBOARDS AND MECHANICAL EQUIPMENT SHALL HAVE NO AUTOMATIC LIGHTING CONTROLS.
5. PHOTOCELL FOR EXTERIOR LIGHTING CONTROL. FIELD VERIFY EXACT LOCATION.
6. NEW CORRIDOR LIGHTING TO BE CONTROLLED VIA EXISTING CORRIDOR LIGHTING CONTROLS.
7. PROVIDE CONTROL PANEL FOR EXTERIOR AND CORRIDOR LIGHTING TIMECLOCK CONTROL. FIELD VERIFY EXACT LOCATION.

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Controls Legend

*Bridge module example reference.

▯		◎	
🟥		▯	
🟥	WALL SWITCH SENSOR WITH INTELLIDAPT, SINGLE CIRCUIT, ONE BUTTON, 120/277VAC, 1000 SQ. FT., PHOTOCELL	▯	BUTTON, MOMENTARY, PILOT
NXP2	(1) NX PANEL=NXP2-PNL-8-8-U-S NXP2 SERIES LIGHTING CONTROL PANEL	▯	(17) NXSW2-OO-WH NX DIGITAL SPECIALTY ON/OFF SWITCH
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○	(14) NXDS NX DAYLIGHT SENSOR	▯	(1) NXWPS NX WALL PARTITION SENSOR
NXHNB2	(2) NXHNB2 NX HUBNET NETWORK BRIDGE MODULE	▭	(19) RJ45ADAPTER RJ45 ADAPTER FOR OCCUPANCY AND DAYLIGHT SENSORS
1RD	(34) NXRCFX2-1RD-UNV NX ROOM CONTROLLER, FX, 1 RELAY, 0 - 10V DIMMING, POWER MONITORING, UNIVERSAL VOLTAGE	▬	(21) WSP-L360-WH WASP2 HIGH BAY SENSOR LENS, 360° COVERAGE AREA
2RD	(23) NXRCFX2-2RD-UNV NX ROOM CONTROLLER, FX, 2 RELAY, 0 - 10V DIMMING, POWER MONITORING, UNIVERSAL VOLTAGE	●	(21) WSPSM24V HCS WASP2 FL. HIGH BAY SENSOR WITH DAYLIGHTING, SURFACE MNT, 24VDC (POWER PACK REQUIRED), FORM C RELAY

NOTES:

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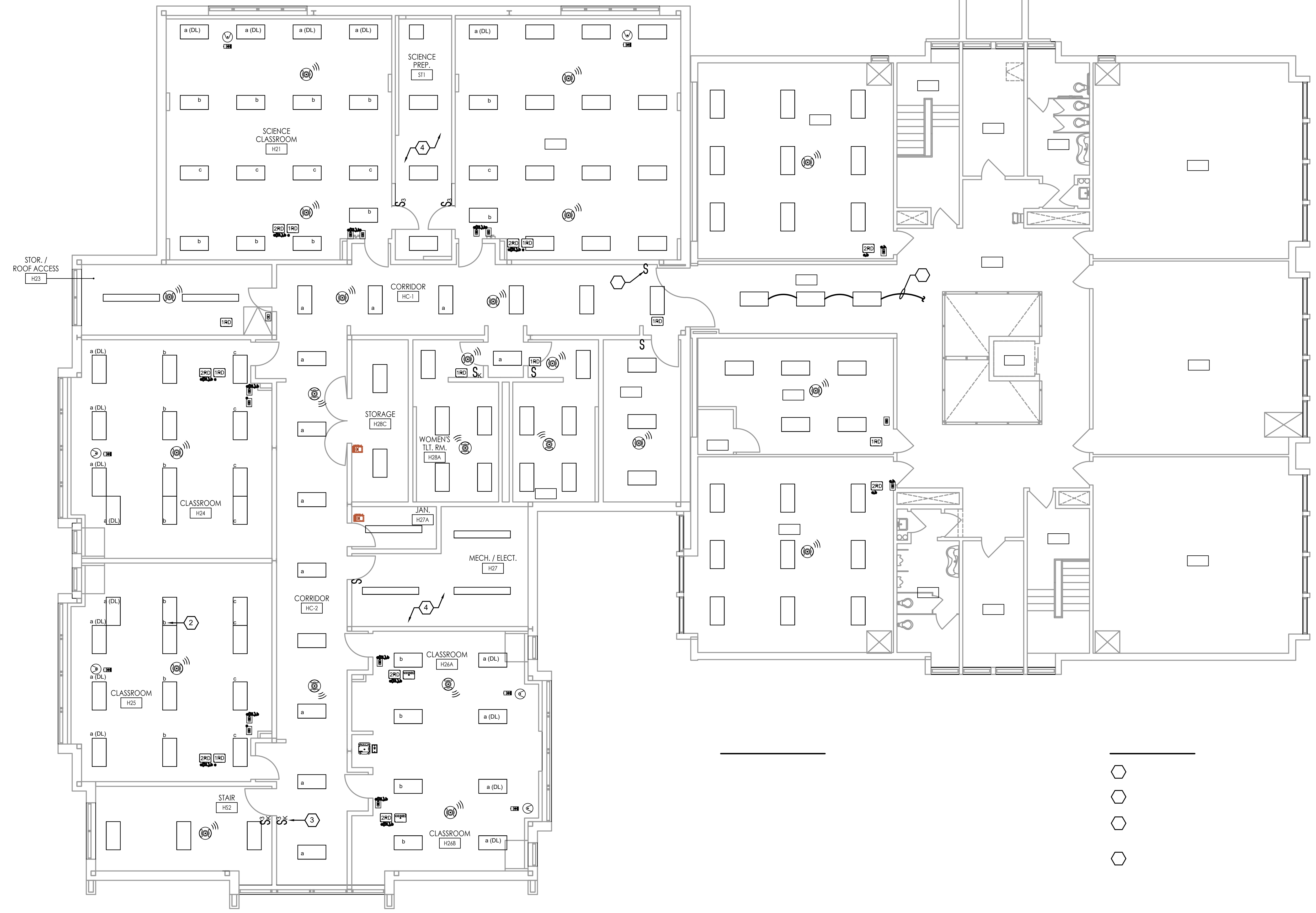
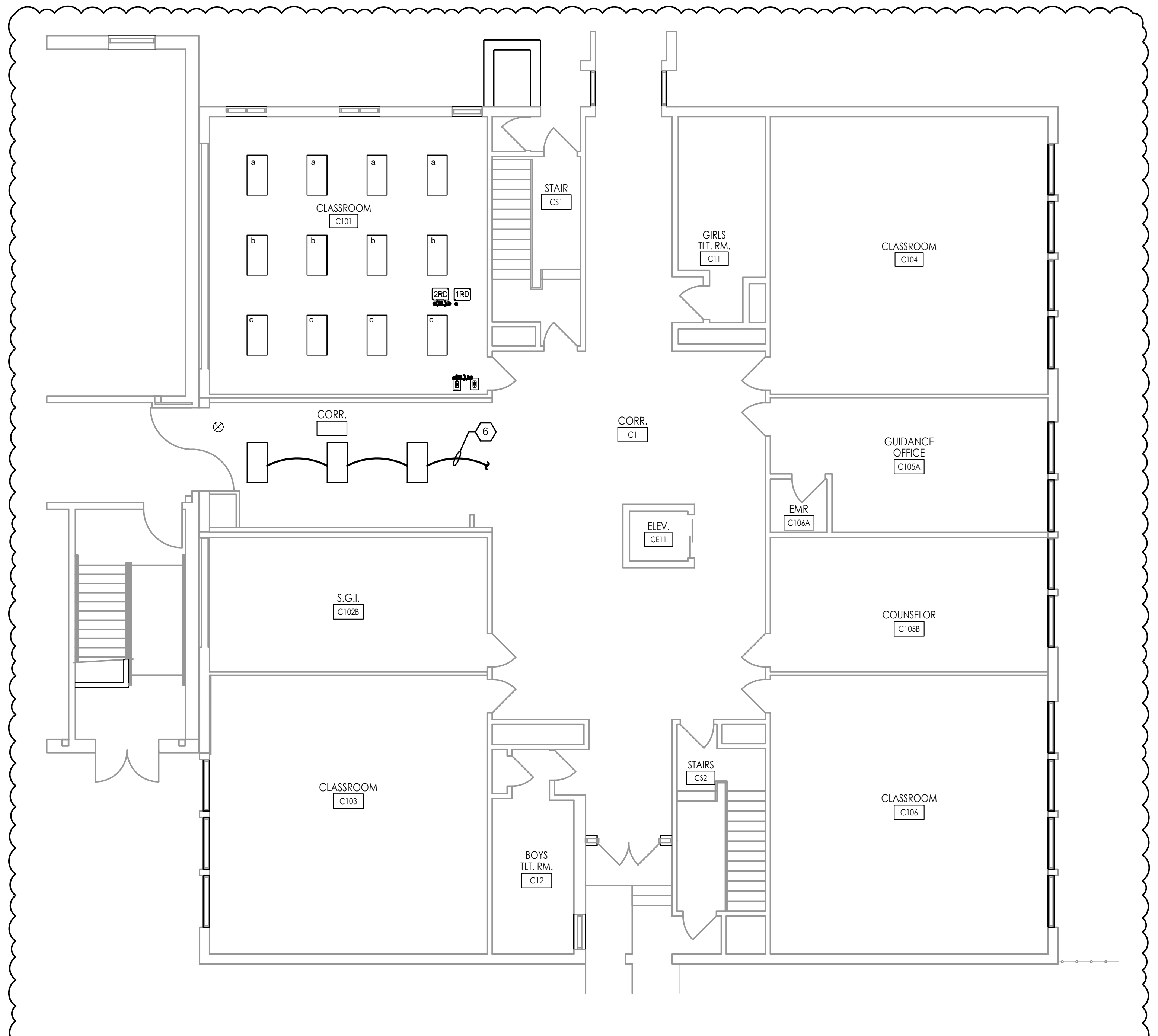


SECOND FLOOR LIGHTING CONTROLS PLAN - BLOCK A

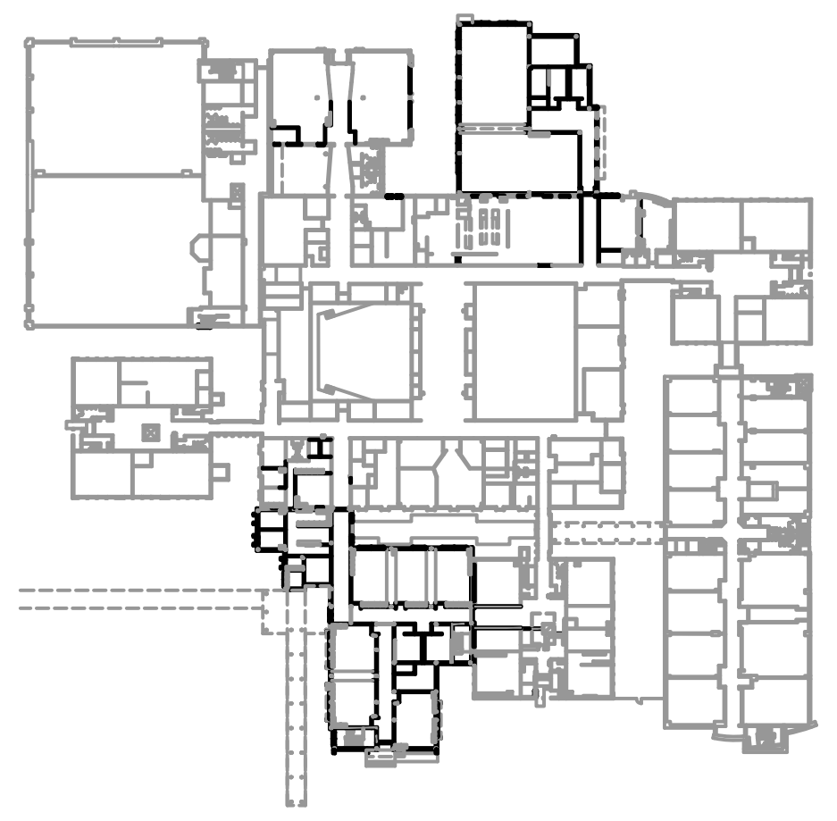
SCALE: 1/8" = 1'-0"

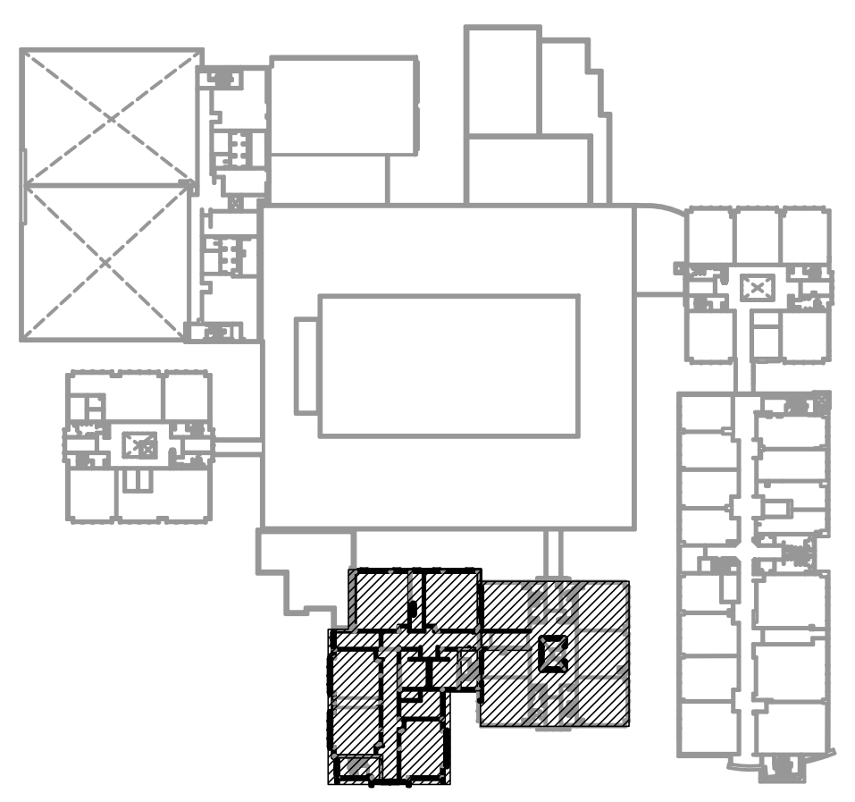


PART FIRST FLOOR PLAN - BASE BID

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

REFER TO DRAWING E5.3 FOR ALTERNATE BID PLAN.





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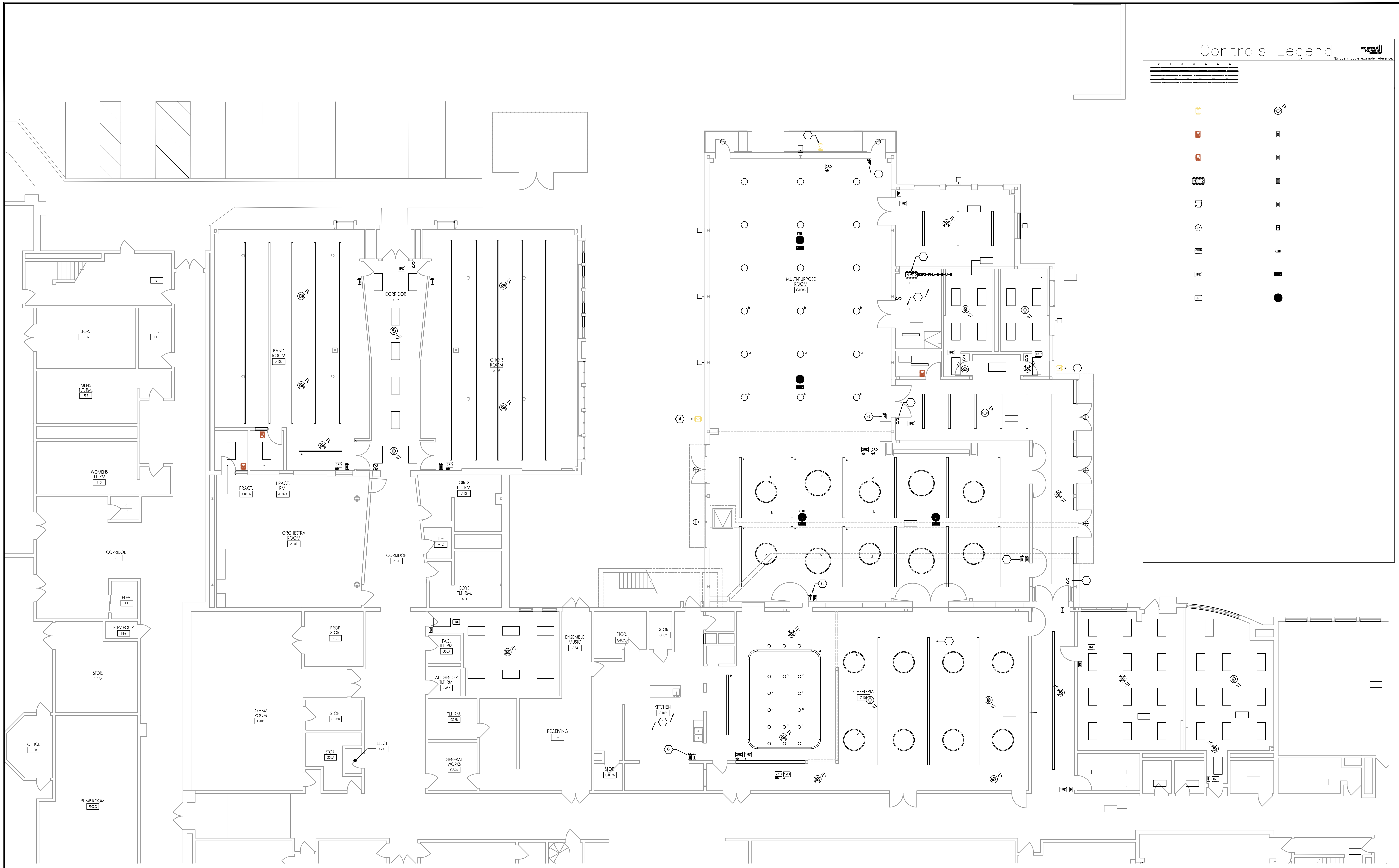

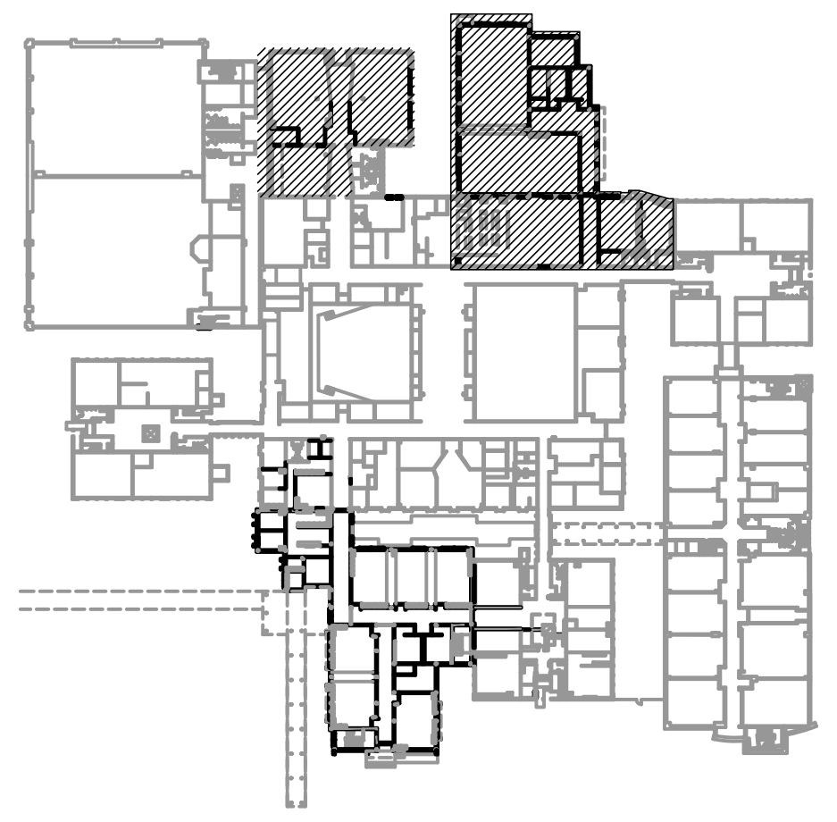

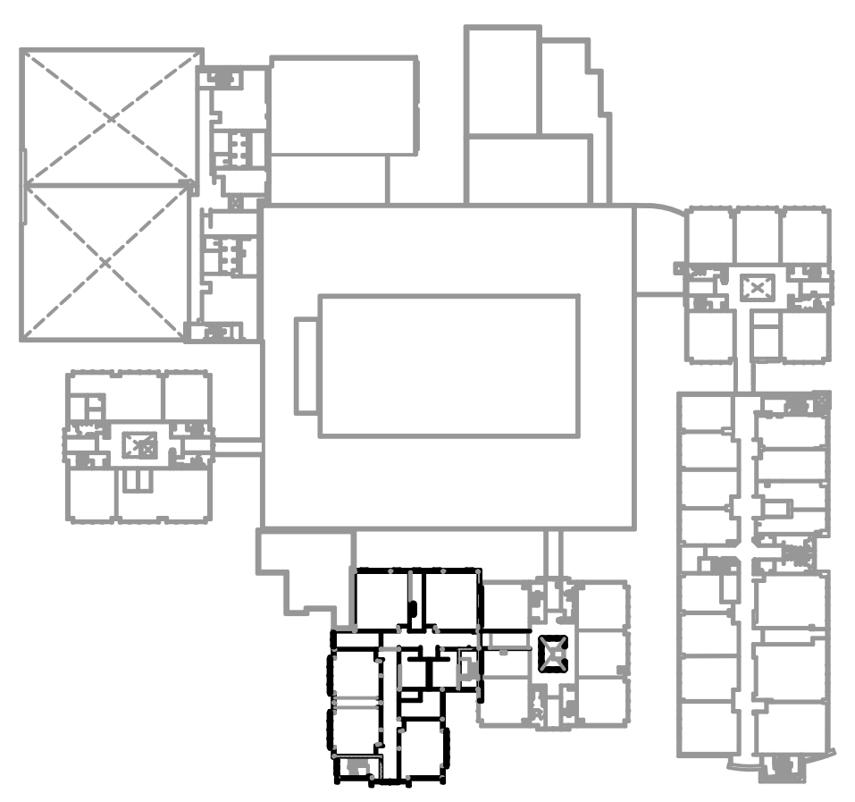

SHEET NOTES

1. COORDINATE ALL LIGHTING FIXTURE AND WIRING DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. UNLESS SHOWN ON THIS PLAN AS NEW, ALL OTHER LIGHTING AND CONTROLS SHALL BE EXISTING TO REMAIN.
3. ALL CORRIDOR LIGHTING SHALL BE CONTROLLED VIA TIMECLOCK WITH OCCUPANCY SENSOR OVERRIDE. PROVIDE KEY SWITCHES FOR LOCAL CONTROL BY AUTHORIZED PERSONNEL ONLY.

KEY NOTES

1. ROOMS AND SPACES WITH PANELBOARDS AND MECHANICAL EQUIPMENT SHALL HAVE NO AUTOMATIC LIGHTING CONTROLS.
2. LOWER CASE LETTER DESIGNATES SWITCHING ARRANGEMENT (TYPICAL).
3. PROVIDE CONTROL PANEL FOR EXTERIOR AND CORRIDOR LIGHTING TIMECLOCK CONTROL. FIELD VERIFY EXACT LOCATION.
4. PHOTOCELL FOR EXTERIOR LIGHTING CONTROL.
5. PROVIDE KEY SWITCHES IFOR MANUAL OVERRIDE OF RESTROOM, STAIRWELL AND CORRIDOR LIGHTING FIXTURES FOR USE BY AUTHORIZED PERSONNEL ONLY. (TYPICAL).
6. CAFETERIA AND GYMNASIUM SWITCH LOCATIONS TO BE FIELD VERIFIED WITH THE OWNER. SWITCHES SHOULD BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.

FIRST FLOOR LIGHTING CONTROLS PLAN - BLOCK B

SCALE: 1/8" = 1'-0"
REFER TO DRAWINGS E5.3 AND E5.4 FOR CONTROL LEGEND

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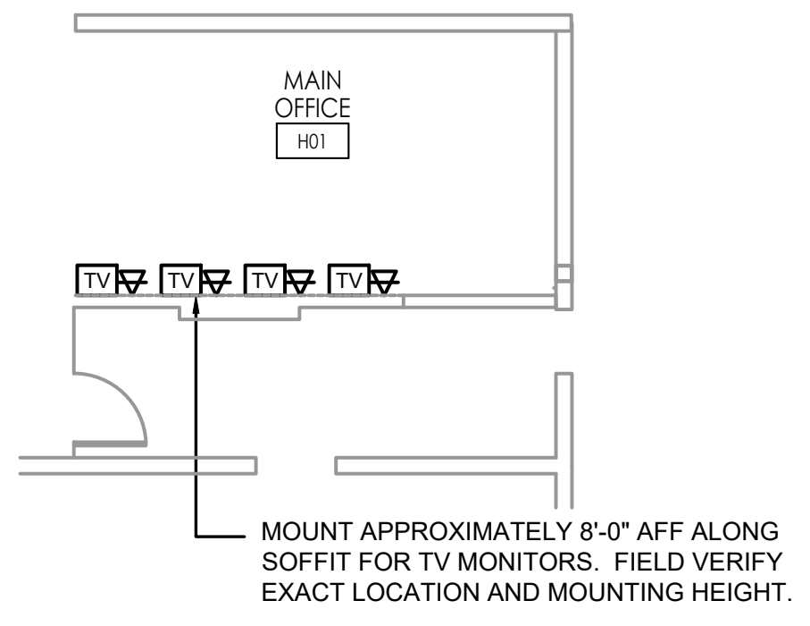


MOUNT APPROXIMATELY 8'-0" AFF ALONG SOFFIT FOR TV MONITORS. FIELD VERIFY EXACT LOCATION AND MOUNTING HEIGHT.

FIRST FLOOR MAIN OFFICE SOFFIT

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

SHEET NOTES

1. COORDINATE ALL WIRING DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. REFER TO SYMBOL LIST ON DRAWING E1.0 FOR ADDITIONAL INFORMATION.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
4. UNLESS SHOWN AS DEMOLITION ON DEMOLITION PLANS, OR AS NEW ON THIS SHEET, EXISTING LOW VOLTAGE DEVICES SHALL BE EXISTING TO REMAIN.

KEY NOTES

1 DATA, TELEPHONE AND HDMI JUNCTION BOXES AT TEACHER'S AV CABINET LOCATION. REFER TO SYMBOL LIST.

2 2" CONDUIT SLEEVE(S) INTO ROOM. PROVIDE QUANTITY AS SHOWN (TYPICAL).

3 LOCAL AUDIO SYSTEM WITH HDMI CABLES TO CEILING TEACHING SPEAKER, REMOTE MICROPHONE WITH VOLUME CONTROL AND SOURCE SETTING, AND SHORT THROW PROJECT.

4 CEILING MOUNTED WIRELESS ACCESS (WIFI) ROUTER LOCATION.

5 DATA OUTLET FOR SHORT THROW PROJECTOR MOUNTED 78" AFF (TYPICAL).

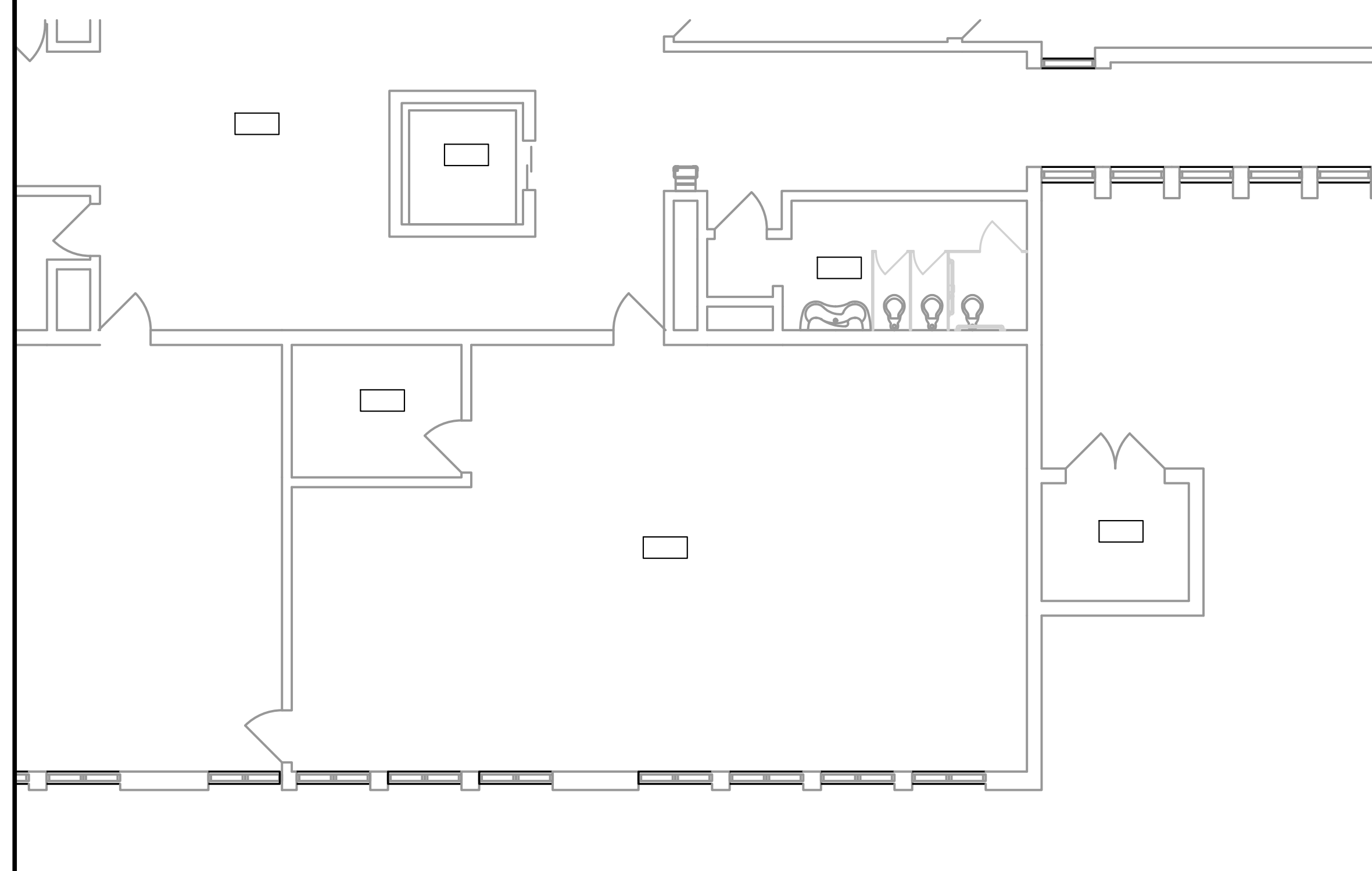
6 CLOCK/SPEAKER LOCATION. REFER TO SYMBOL LIST (TYPICAL).

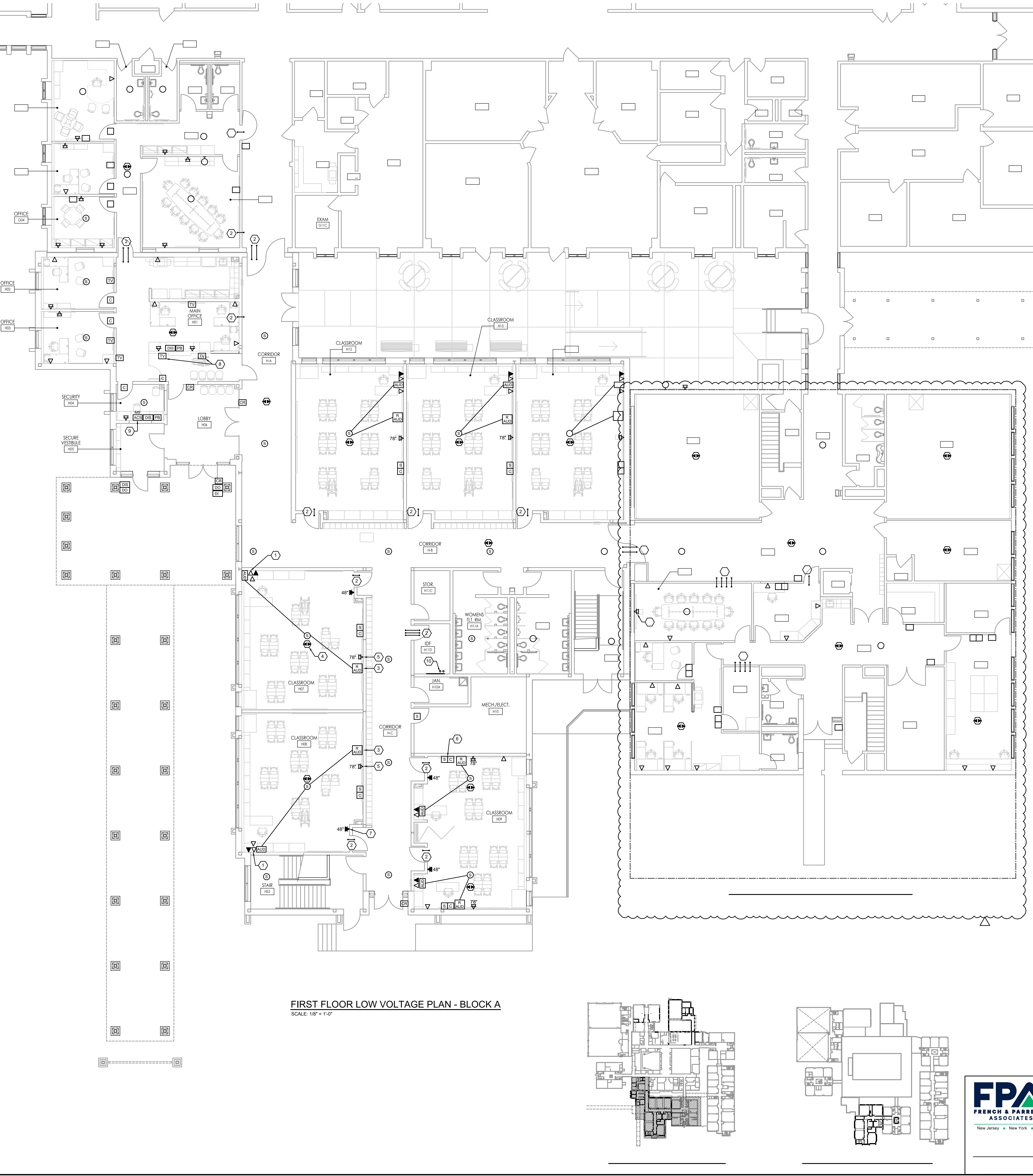
7 TELEPHONE MOUNTED AT 48" AFF (TYPICAL).

8 TV MOUNTED ON SOFFIT. COORDINATE EXACT HEIGHT WITH ARCHITECT.

9 AREA OF REFUGE MASTER STATION. LOCATE IN MAIN OFFICE OR SECURITY OFFICE. FIELD COORDINATE EXACT LOCATION WITH THE OWNER PRIOR TO ROUGH-IN. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

10 TWO (2) 4" CONDUIT SLEEVES UP TO SECOND FLOOR.





FIRST FLOOR LOW VOLTAGE PLAN - BLOCK A

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

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KEY NOTES

⟨1⟩ DATA, TELEPHONE AND HDMI JUNCTION BOX AT TEACHER'S AV CABINET LOCATION. REFER TO SYMBOL LIST.

⟨2⟩ 2" CONDUIT SLEEVE(S) INTO ROOM. PROVIDE QUANTITY AS SHOWN (TYPICAL).

⟨3⟩ LOCAL AUDIO SYSTEM WITH HDMI CABLES TO CEILING TEACHING SPEAKER, REMOTE MICROPHONE WITH VOLUME CONTROL AND SOURCE SETTING, AND SHORT THROW PROJECT.

⟨4⟩ CEILING MOUNTED WIRELESS ACCESS (WIFI) ROUTER LOCATION.

⟨5⟩ DATA OUTLET FOR SHORT THROW PROJECTOR MOUNTED 78" AFF (TYPICAL).

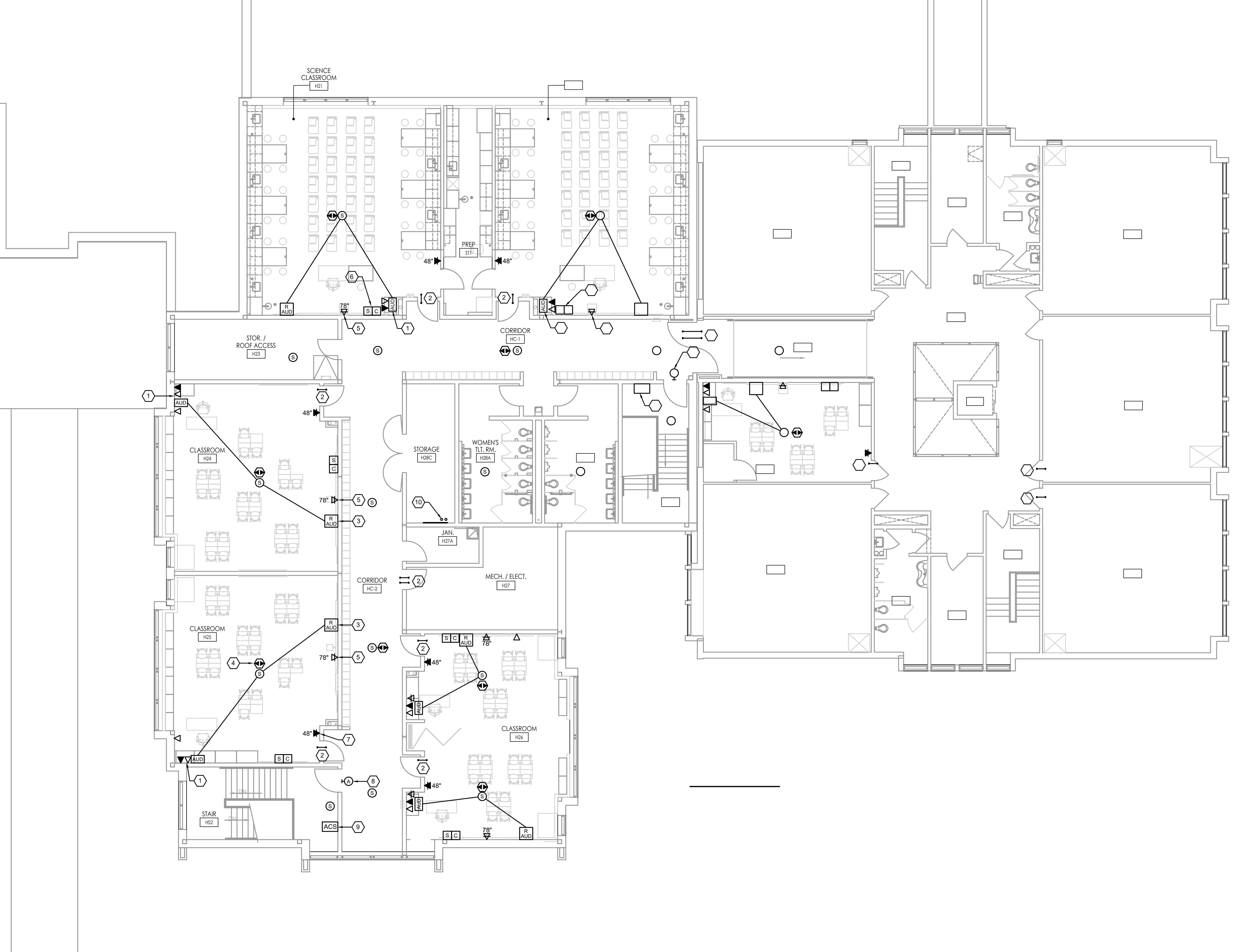
⟨6⟩ CLOCK/SPEAKER LOCATION. REFER TO SYMBOL LIST (TYPICAL).

⟨7⟩ TELEPHONE MOUNTED AT 48" AFF (TYPICAL).

⟨8⟩ ILLUMINATED "AREA OF REFUGE" SIGN. CONNECT TO TO EXISTING CORRIDOR LIGHTING CIRCUIT SERVING THIS AREA AHEAD OF SWITCHING AND/OR LIGHTING CONTROLS - 2#12 & 1#12EG IN 3/4" EMT CONDUIT.

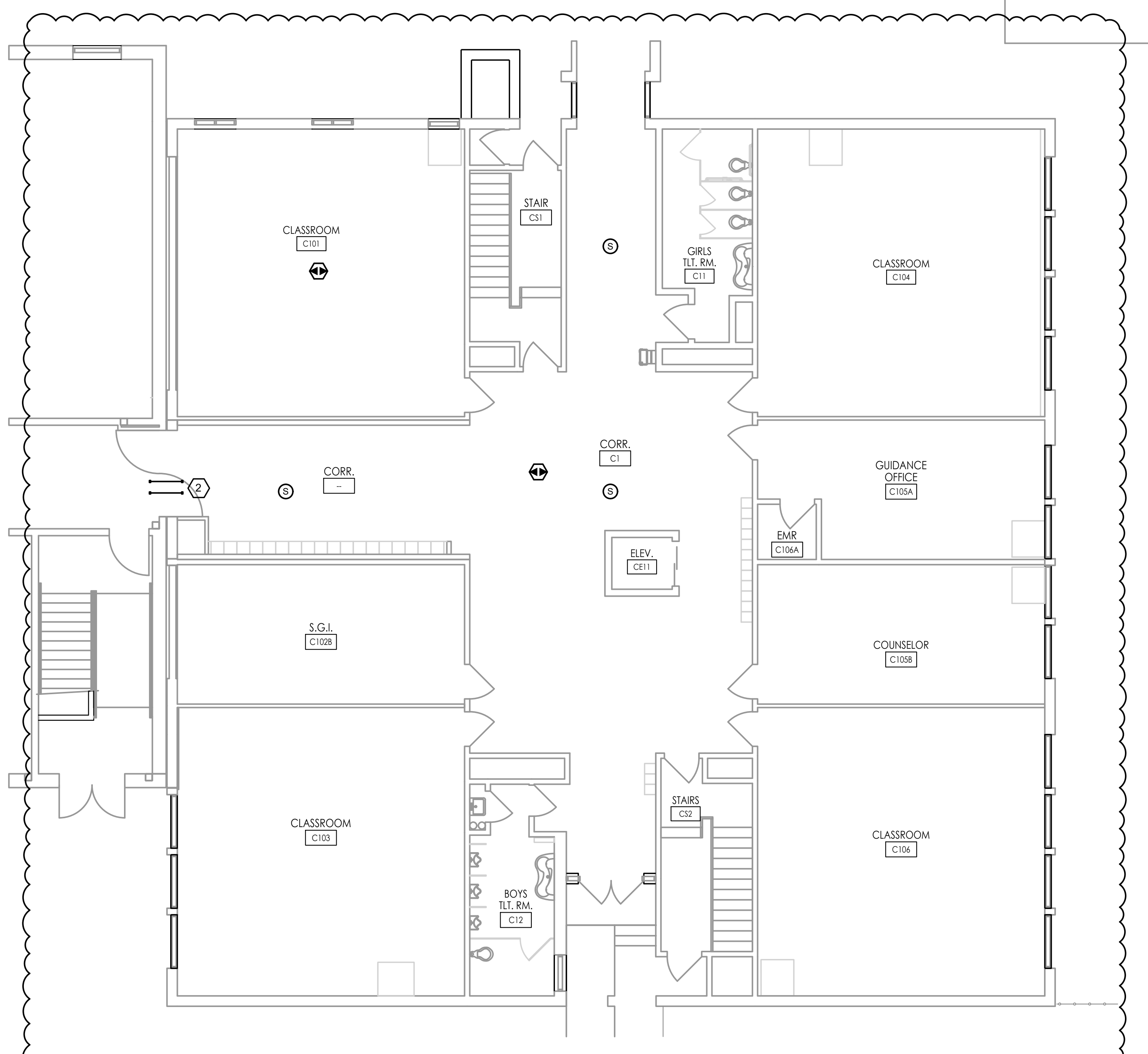
⟨9⟩ AREA OF REFUGE CALL STATION. REFER TO DETAIL SHEETS.

⟨10⟩ TWO (2) 4" CONDUIT SLEEVES DOWN TO FIRST FLOOR.



SECOND FLOOR LOW VOLTAGE PLAN - BLOCK A

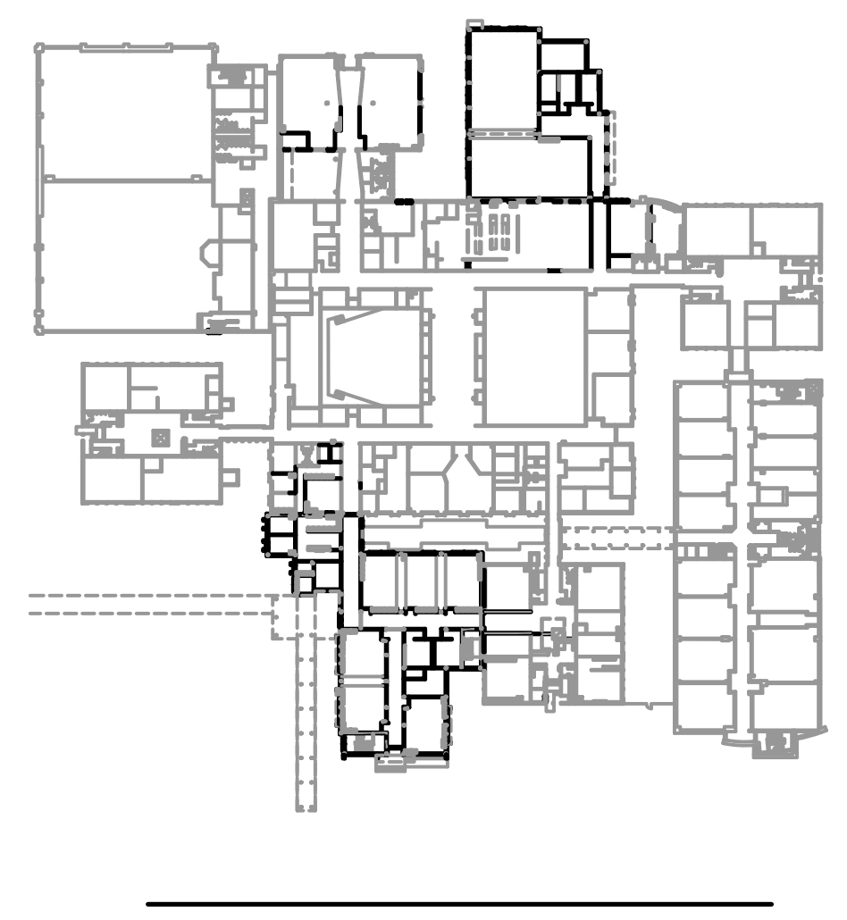
SCALE: 1/8" = 1'-0"

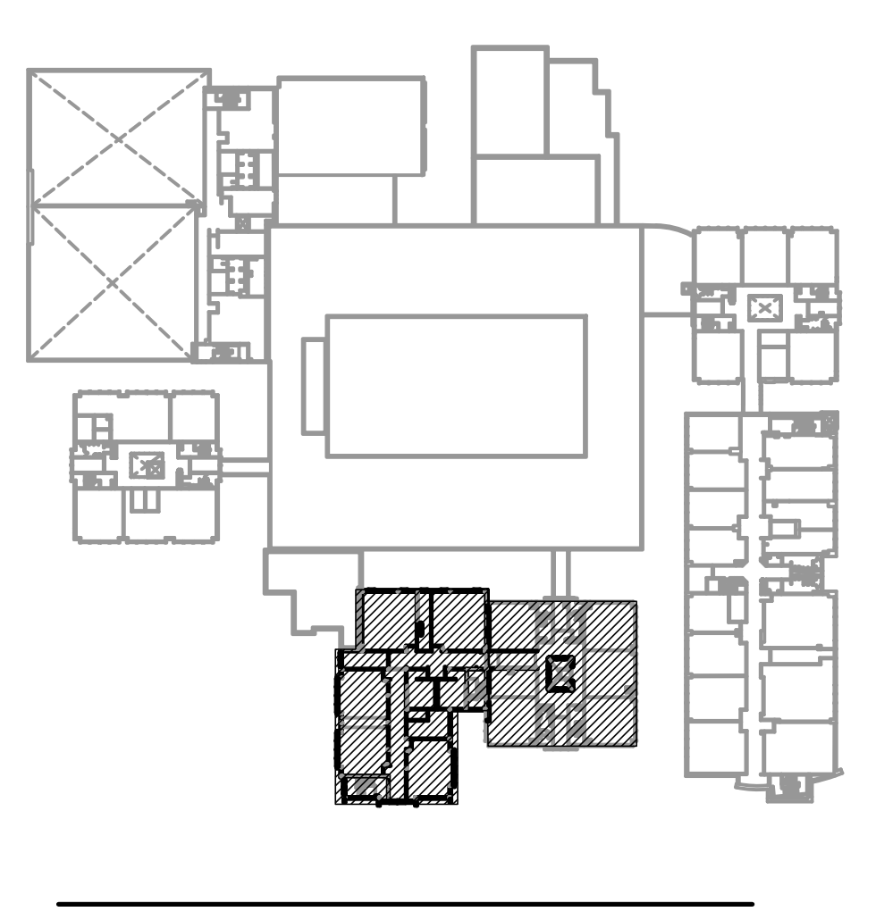


PART FIRST FLOOR PLAN - BASE BID

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

REFER TO DRAWING E6.0 FOR ALTERNATE BID PLAN.





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SHEET NOTES

1. DEVICES MARKED "ETR" ARE EXISTING TO REMAIN. DEVICES MARKED "REL" ARE RELOCATED. REFER TO DEMOLITION PLANS FOR ORIGINAL LOCATIONS.
2. UNLESS SHOWN AS NEW OR RELOCTED ON THIS PLAN, ALL OTHER FIRE ALARM DEVICES, PANELS, DETECTORS, ETC. SHALL BE EXISTING TO REMAIN.

KEY NOTES

1 NEW FIRE ALARM REMOTE ANNUNCIATOR PANEL.

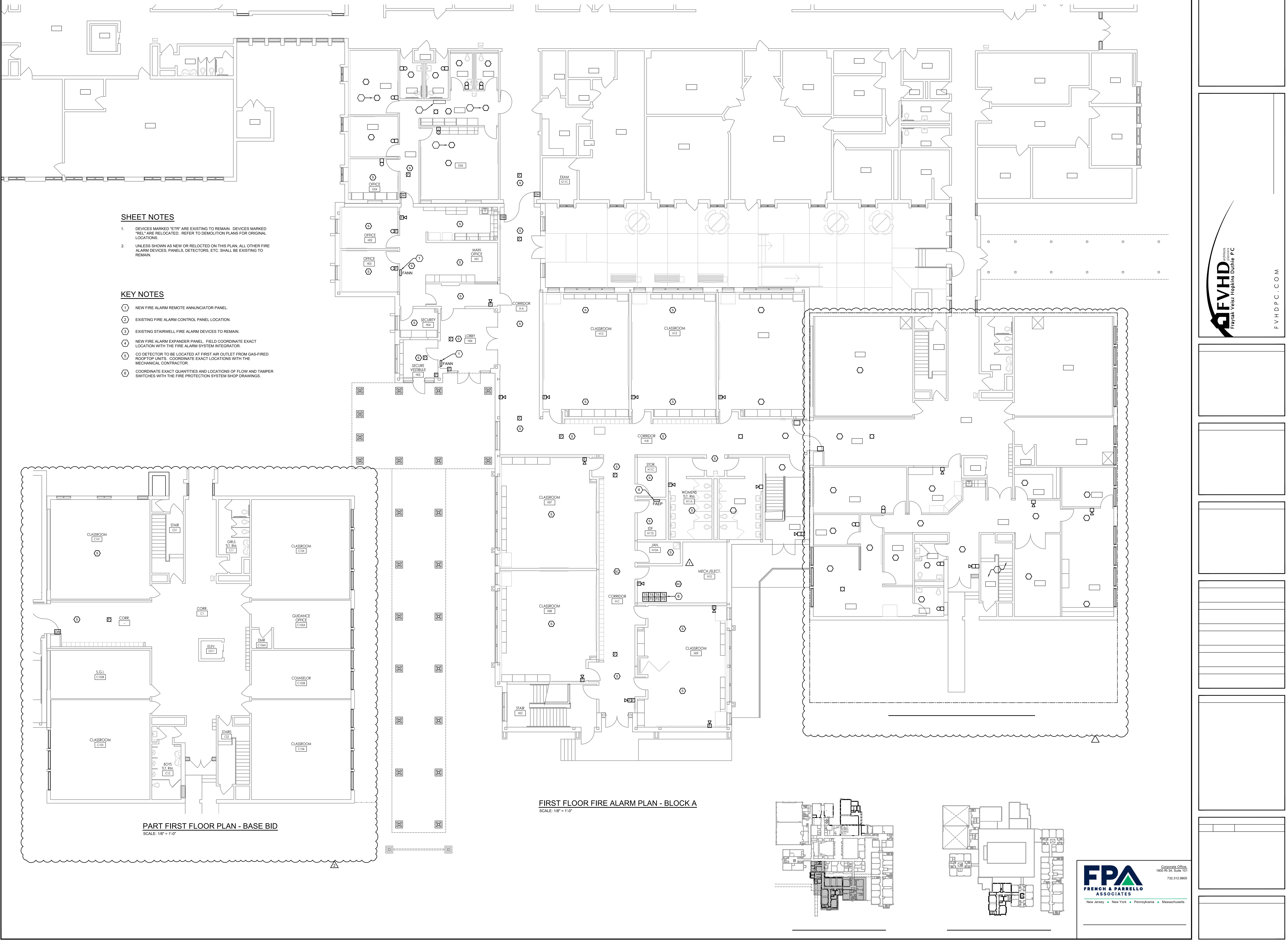
2 EXISTING FIRE ALARM CONTROL PANEL LOCATION.

3 EXISTING STAIRWELL FIRE ALARM DEVICES TO REMAIN.

4 NEW FIRE ALARM EXPANDER PANEL. FIELD COORDINATE EXACT LOCATION WITH THE FIRE ALARM SYSTEM INTEGRATOR.

5 CO DETECTOR TO BE LOCATED AT FIRST AIR OUTLET FROM GAS-FIRED ROOFTOP UNITS. COORDINATE EXACT LOCATIONS WITH THE MECHANICAL CONTRACTOR.

6 COORDINATE EXACT QUANTITIES AND LOCATIONS OF FLOW AND TAMPER SWITCHES WITH THE FIRE PROTECTION SYSTEM SHOP DRAWINGS.



PART FIRST FLOOR PLAN - BASE BID

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

FIRST FLOOR FIRE ALARM PLAN - BLOCK A

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

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EXISTING MAIN MDS SECTION #D1
(EXISTING)

PRINCETON MIDDLE SCHOOL
RATING: 480/277V, 3 PH, 4W, 4000A
JOB: NO.: 23463.003
LOCATION: MAIN ELECTRIC ROOM

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	EXISTING LOAD	3		400	EXISTING	0.0								
							0.0							
								0.0						
2	EXISITNG PANEL U5PA	3		600	EXISTING	0.0								
							0.0							
								0.0						
3	EXISTING PANEL MP-U5	3		400	EXISTING	0.0								
							0.0							
								0.0						
4	**EXISTING MDP-2A**	**3**	**168.3**	**1200**	**EXISTING**	168.3								
			177.8				177.8							
			164.2					164.2						
	EXISTING SERVICE HIGHEST PEAK DEMAND KW	**3**	**269.4**			269.4								
			269.4				269.4							
			269.4					269.4						
					TOTAL (PHASE):	464.9	474.5	460.9						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 4000A
INTERRUPTING RATING: 65KA SYM.
FED FROM: UTILITY COMPANY TRANSFORMER

TOTAL CONNECTED LOAD.: 1400.3 KVA
1686.3 AMPS

NOTES
1. EXISTING 2000A SQUARE D QED SWITCHBOARD SECTION
2. ALL NEW CIRCUIT BREAKERS SHALL MATCH EXISTING PANEL MANUFACTURER AND SHORT CIRCUIT RATING.
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. CONTRACTOR SHALL FIELD VERIFY ALL PANEL SPARES AND SPACES

EXISTING MAIN MDS SECTION #D2
(EXISTING)

PRINCETON MIDDLE SCHOOL
RATING: 480/277V, 3 PH, 4W, 4000A
JOB: NO.: 23463.003
LOCATION: MAIN ELECTRIC ROOM

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	EXISTING PANEL MLRP IN CLOSET B101 VIA TRANSFORMER	3		100	EXISTING	0.0			EXISTING	100		3	EXISTING PANEL U5E (OLD GYM)	2
							0.0							
								0.0						
3	EXISTING PANEL U5A	3		200	EXISTING	0.0								
							0.0							
								0.0						
4	EXISTING PANEL U5C	3		400	EXISTING	0.0								
							0.0							
								0.0						
5	EXISTING PANELS KP-SV & DB-U1 VIA TRANSFORMER T3	3		400	EXISTING	0.0								
							0.0							
								0.0						
6	EXISTING PANEL U5B (ROOM G24)	3		200	EXISTING	0.0								
							0.0							
								0.0						
7	**EXISTING PANEL U5D**	**3**	**27.3**	**200**	**EXISTING**	27.3								
			27.3				27.3							
			27.3					27.3						
					TOTAL (PHASE):	27.3	27.3	27.3						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 4000A
INTERRUPTING RATING: 65KA SYM.
FED FROM: UTILITY COMPANY TRANSFORMER

NOTES
1. EXISTING 2000A SQUARE D QED SWITCHBOARD SECTION
2. ALL NEW CIRCUIT BREAKERS SHALL MATCH EXISTING PANEL MANUFACTURER AND SHORT CIRCUIT RATING.
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. CONTRACTOR SHALL FIELD VERIFY ALL PANEL SPARES AND SPACES

EXISTING MDP-2A
(EXISTING)

PRINCETON MIDDLE SCHOOL
RATING: 480/277V, 3 PH, 4W, 1200A
JOB: NO.: 23463.003
LOCATION: MAIN ELECTRIC ROOM

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
	MAIN CIRCUIT BREAKER	3		1200		0.0								
							0.0							
								0.0						
1	**NEW PANEL HPH1 (H WING MECH / ELEC RM H10)**	**3**	**56.1**	**400**	**4#600 MCM & 1#3EG IN 4"C**	56.1			EXISTING	125		3	EXISTING PANEL LP1A	2
			64.3				64.3							
			51.2					51.2						
3	**NEW PANEL HPH2 (H WING MECH / ELEC RM H10)**	**3**	**55.5**	**400**	**4#600 MCM & 1#3EG IN 4"C**	112.1			**4#600 MCM & 1#3EG IN 4"C**	**400**	**56.6**	**3**	**NEW PANEL HPG (G WING MECH/ELEC RM G108D)**	4
			56.1				113.5				**57.5**			
			54.7					113.0			**58.3**			
5	EXISTING PANEL EM-1A VIA ATS-1A	3		400	EXISTING	0.0			EXISTING	400		3	EXISTING PANEL HV-1A	6
							0.0							
								0.0						
7	EXISTING PANEL HV-2A	3		600	EXISTING	0.0								
							0.0							
								0.0						
8	EXISTING PANEL LVDP-1A VIA TRANSFORMER LVDP-1A	3		500	EXISTING	0.0								
							0.0							
								0.0						
					TOTAL (PHASE):	168.3	177.8	164.2						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 1200A
INTERRUPTING RATING: 65KA SYM.
FED FROM: MAIN DISTRIBUTION SWITCHBOARD

NOTES
1. EXISTING EATON POW-R-LINE
2. ALL NEW CIRCUIT BREAKERS SHALL MATCH EXISTING PANEL MANUFACTURER AND SHORT CIRCUIT RATING.
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. CONTRACTOR SHALL FIELD VERIFY ALL PANEL SPARES AND SPACES

EXISTING PANEL PPAC
(EXISTING)

PRINCETON MIDDLE SCHOOL
RATING: 208/120V, 3 PH, 4W, 225A
JOB: NO.: 23463.003
LOCATION: 2ND FLOOR CORR C2

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	EXISTING LOAD	3		35	EXISTING	0.0			EXISTING	35		3	EXISTING LOAD	2
3							0.0							4
5								0.0						6
7	EXISTING LOAD	3		35	EXISTING	0.0			EXISTING	35		3	EXISTING LOAD	8
9							0.0							10
11								0.0						12
13	EXISTING LOAD	2		15	EXISTING	0.0			EXISTING	15		2	EXISTING LOAD	14
15							0.0							16
17	EXISTING LOAD	2		30	EXISTING			0.0	EXISTING	20		1	EXISTING LOAD	18
19						0.0			EXISTING	20		1	EXISTING LOAD	20
21	EXISTING LOAD	1		20	EXISTING		0.0		EXISTING	20		1	EXISTING LOAD	22
23	EXISTING LOAD	1		15	EXISTING			0.0	EXISTING	15		1	EXISTING LOAD	24
25	EXISTING LOAD	1		15	EXISTING	0.0			EXISTING	15		1	EXISTING LOAD	26
27	EXISTING LOAD	1		15	EXISTING		0.0		EXISTING	15		1	EXISTING LOAD	28
29	EXISTING LOAD	1		20	EXISTING			0.0	EXISTING	20		1	EXISTING LOAD	30
31	**NEW EWC & RECPTACLES**	**1**	**0.8**	**20**	**2#12 & 1#12EG IN 3/4"C**	0.8			EXISTING	35		3	EXISTING LOAD	32
33	**NEW AV CABINET QUAD**	**1**	**0.4**	**20**	**2#12 & 1#12EG IN 3/4"C**		0.4							34
35	**NEW RECEPTACLES**	**1**	**1.1**	**20**	**2#12 & 1#12EG IN 3/4"C**			1.1						36
37	SPARE	1		20		0.0			EXISTING	35		3	EXISTING LOAD	38
39	SPARE	1		20			0.0							40
41	SPARE	1		20				0.0						42
					TOTAL (PHASE):	0.8	0.4	1.1						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 225A
INTERRUPTING RATING: EXISTING KA SYM.
FED FROM: EXISTING PANEL U5PB

NOTES
1. EXISTING SQUARE D NQOD PANEL.
2. ALL NEW CIRCUIT BREAKERS SHALL MATCH EXISTING PANEL MANUFACTURER AND SHORT CIRCUIT RATING.
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. CONTRACTOR SHALL FIELD VERIFY ALL PANEL SPARES AND SPACES

EXISTING PANEL KP-SV
(EXISTING)

PRINCETON MIDDLE SCHOOL
RATING: 208/120V, 3 PH, 4W, 100A
JOB: NO.: 23463.003
LOCATION: SERVING LINE

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	EXISTING LOAD	1		20	EXISTING	1.1			**2#12 & 1#12EG IN 3/4"C**	**20**	**1.1**	**1**	**MOTORIZED COILING DOORS**	2
3	EXISTING LOAD	1		20	EXISTING		0.0		EXISTING	20		2	EXISTING LOAD	4
5	EXISTING LOAD	1		20	EXISTING			0.0						6
7	EXISTING LOAD	1		20	EXISTING	0.0			EXISTING	20		1	EXISTING LOAD	8
9	EXISTING LOAD	1		20	EXISTING		0.0		EXISTING	20		1	EXISTING LOAD	10
11	EXISTING LOAD	1		20	EXISTING			0.0	EXISTING	20		1	EXISTING LOAD	12
13	**CASHIER REEL CORD**	**1**	**0.4**	**20**	**2#12 & 1#12EG IN 3/4"C**	0.4			EXISTING	20		1	EXISTING LOAD	14
15	EXISTING LOAD	1		20	EXISTING		0.0		EXISTING	20		1	EXISTING LOAD	16
17	EXISTING LOAD	1		20	EXISTING			0.0	EXISTING	20		1	EXISTING EWC	18
19	**MILK COOLER**	**1**	**1.2**	**20**	**2#12 & 1#12EG IN 3/4"C**	1.2			EXISTING	20		2	EXISTING STEAM TABLE	20
21	**OPEN DISPLAY CASE**	**1**	**1.6**	**20**	**2#12 & 1#12EG IN 3/4"C**		1.6							22
23	**OPEN DISPLAY CASE**	**1**	**1.6**	**20**	**2#12 & 1#12EG IN 3/4"C**			2.7	**2#12 & 1#12EG IN 3/4"C**	**20**	**1.1**	**1**	**RELOCATED ICE MACHINE**	24
25	EXISTING FREEZER	3		20	EXISTING	0.0				30		1	SPARE	26
27							0.0			30		1	SPARE	28
29								0.0		30		1	SPARE	30
	MAIN CIRCUIT BREAKER	3		100	EXISTING	0.0								
							0.0							
								0.0						
					TOTAL (PHASE):	2.6	1.6	2.7						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN LUGS ONLY
INTERRUPTING RATING: EXISTING KA SYM.
FED FROM: EXITING BLOCK B MDS- SECTION D2

NOTES
1. EXISTING SQUARE D NQOD PANELBOARD.
2. ALL NEW CIRCUIT BREAKERS SHALL MATCH EXISTING PANEL MANUFACTURER AND SHORT CIRCUIT RATING.
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. CONTRACTOR SHALL FIELD VERIFY ALL PANEL SPARES AND SPACES

NEW PANEL HPG
(NEW)

PRINCETON MIDDLE SCHOOL
RATING: 480/277V, 3 PH, 4W, 400A
JOB: NO.: 23463.003
LOCATION: MECH-ELEC G108D

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	PANEL RPG VIA 45 KVA TRANSFORMER T-G	3	15.7	70	4#4 & 1#8EG IN 1-1/4"C	26.7			4#6 & 1#10EG IN 1-1/4"C	60	11.0	3	ENERGY RECOVERY ERU-1	2
3			16.6				27.6				11.0			4
5			17.4					28.4			11.0			6
7	WATER HEATER WH--3	3	4.5	25	4#10 & 1#10EG IN 3/4"C	8.9			4#10 & 1#10EG IN 3/4"C	25	4.4	3	ROOFTOP UNIT RTU-G2	8
9			4.5				8.9				4.4			10
11			4.5					8.9			4.4			12
13	SPARE	1		20	2#12 & 1#12EG IN 3/4"C	4.4			4#8 & 1#10EG IN 1"C	50	4.4	3	ROOFTOP UNIT RTU-G108A	14
15	SPARE	1		20	2#12 & 1#12EG IN 3/4"C		4.4				4.4			16
17	SPARE	1		20	2#12 & 1#12EG IN 3/4"C			4.4			4.4			18
19	SPARE	1		20	2#12 & 1#12EG IN 3/4"C	5.1			4#10 & 1#10EG IN 3/4"C	25	5.1	3	ROOFTOP UNIT RTU-G33	20
21	SPARE	1		20	2#12 & 1#12EG IN 3/4"C		5.1				5.1			22
23	SPARE	1		20	2#12 & 1#12EG IN 3/4"C			5.1			5.1			24
25	SPARE	1		20	2#12 & 1#12EG IN 3/4"C	5.0			2#10 & 1#10EG IN 3/4"C	30	5.0	1	UNIT HEATER EUH-B	26
27	SPARE	1		20	2#12 & 1#12EG IN 3/4"C		3.8		2#12 & 1#12EG IN 3/4"C	20	3.8	1	CABINET HEATER ECH-A	28
29	SPARE	1		20	2#12 & 1#12EG IN 3/4"C			3.8	2#12 & 1#12EG IN 3/4"C	20	3.8	1	CABINET HEATER ECH-A	30
31	SPARE	1		20	2#12 & 1#12EG IN 3/4"C	3.8			2#12 & 1#12EG IN 3/4"C	20	3.8	1	CABINET HEATER ECH-A	32
33	SPARE	1		20	2#12 & 1#12EG IN 3/4"C		5.0		2#10 & 1#10EG IN 3/4"C	30	5.0	1	CABINET HEATER ECH-B	34
35	SPARE	1		20	2#12 & 1#12EG IN 3/4"C			5.0	2#10 & 1#10EG IN 3/4"C	30	5.0	1	CABINET HEATER ECH-B	36
37	SPARE	1		20	2#12 & 1#12EG IN 3/4"C	2.6			4#12 & 1#12EG IN 3/4"C	15	2.6	3	MUSIC G34 UV-B	38
39	SPARE	1		20	2#12 & 1#12EG IN 3/4"C		2.6				2.6			40
41	SPARE	1		20	2#12 & 1#12EG IN 3/4"C			2.6			2.6			42
					TOTAL (PHASE):	56.6	57.5	58.3						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 300A
INTERRUPTING RATING: 65KA SYM.
FED FROM: EXISTING PANEL MDP-2A

TOTAL CONNECTED LOAD.: 172.4 KVA
207.6 AMPS

NOTES
1. ALL NEW PANELS SHALL BE FURNISHED WITH INTEGRAL SURGE PROTECTION.
2. ALL BUSING TO BE COPPER WITH BOLT ON CIRCUIT BREAKERS.
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.

NEW PANEL RPG
(NEW)

PRINCETON MIDDLE SCHOOL
RATING: 208/120V, 3 PH, 4W, 225A
JOB: NO.: 23463.003
LOCATION: MECH-ELEC G108D

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	0.56 0.56	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	GYM RECEPTACLES	1	0.7	20	2#12 & 1#12EG IN 3/4"C	1.7			2#12 & 1#12EG IN 3/4"C	20	1.0	1	MOTORIZED SHADES	2
3	GYM RECEPTACLES	1	0.9	20	2#12 & 1#12EG IN 3/4"C		1.9		2#12 & 1#12EG IN 3/4"C	20	1.0	1	MOTORIZED SHADES	4
5	EWC & RECEPTACLES	1	1.4	20	2#12 & 1#12EG IN 3/4"C			2.0	2#12 & 1#12EG IN 3/4"C	20	0.6	1	MOTORIZED SHADES	6
7	MOTORIZED BACKSTOPS	1	1.4	20	2#12 & 1#12EG IN 3/4"C	2.0			2#12 & 1#12EG IN 3/4"C	20	0.6	1	MOTOR SHADES / CTRL PNL	8
9	MOTORIZED BACKSTOPS	1	1.4	20	2#12 & 1#12EG IN 3/4"C		1.9		2#12 & 1#12EG IN 3/4"C	20	0.5	1	SHADE CONTROL PANEL	10
11	PORTER GYM CONTROL RELAY	1	1.0	20	2#12 & 1#12EG IN 3/4"C			2.2	2#12 & 1#12EG IN 3/4"C	20	1.2	1	MICROWAVE	12
13	PORTER GYM CONTROL RELAY	1	1.0	20	2#12 & 1#12EG IN 3/4"C	1.7			2#12 & 1#12EG IN 3/4"C	20	0.7	1	RECEPTACLES	14
15	MOTORIZED ROOM DIVIDER	1	1.4	20	2#12 & 1#12EG IN 3/4"C		2.2		2#12 & 1#12EG IN 3/4"C	20	0.8	1	UC REFRIGERATOR	16
17	CAFETERIA RECEPT	1	0.9	20	2#12 & 1#12EG IN 3/4"C			1.4	2#12 & 1#12EG IN 3/4"C	20	0.5	1	RECEPTACLES	18
19	CAFETERIA RECEPT	1	0.9	20	2#12 & 1#12EG IN 3/4"C	1.3			2#12 & 1#12EG IN 3/4"C	20	0.4	1	PROJECTOR & SCREEN	20
21	RECEPTACLES	1	1.1	20	2#12 & 1#12EG IN 3/4"C		2.3		2#12 & 1#12EG IN 3/4"C	20	1.2	1	MICROWAVE	22
23	COPIER	1	1.0	20	2#12 & 1#12EG IN 3/4"C			1.9	2#12 & 1#12EG IN 3/4"C	20	0.9	1	RECEPTACLES	24
25	RECEPTACLES	1	0.4	20	2#12 & 1#12EG IN 3/4"C	1.3			2#12 & 1#12EG IN 3/4"C	20	0.9	1	WASHING MACHINE	26
27	MICROWAVE	1	1.0	20	2#12 & 1#12EG IN 3/4"C		1.2		2#12 & 1#12EG IN 3/4"C	20	0.2	1	IRON RECEPTACLE	28
29	MICROWAVE	1	1.0	20	2#12 & 1#12EG IN 3/4"C			1.4	2#12 & 1#12EG IN 3/4"C	20	0.4	1	AV CABINET QUAD	30
31	REFRIGERATOR	1	1.2	20	2#12 & 1#12EG IN 3/4"C	1.7			2#12 & 1#12EG IN 3/4"C	20	0.5	1	GFI RECEPTACLES	32
33	DISHWASHER (GFI BKR)	1	0.9	20	2#12 & 1#12EG IN 3/4"C		2.1		2#12 & 1#12EG IN 3/4"C	20	1.2	1	REFRIGERATOR	34
35	ELECTRIC DRYER (GFI BKR)	2	2.5	30	3#10 & 1#10EG IN 3/4"C			3.2	2#12 & 1#12EG IN 3/4"C	20	0.7	1	ROOFTOP RECEPTACLES	36
37			2.5			3.0			2#12 & 1#12EG IN 3/4"C	20	0.5	1	EXHAUST FAN EF-4	38
39	ELECTRIC RANGE	2	2.5	30	3#10 & 1#10EG IN 3/4"C		3.2		2#12 & 1#12EG IN 3/4"C	20	0.7	1	EXHAUST FAN EF-5	40
41			2.5					3.2	2#12 & 1#12EG IN 3/4"C	20	0.7	1	EXHAUST FAN EF-6	42
43	ATC PANEL	1	0.5	20	2#12 & 1#12EG IN 3/4"C	1.2			2#12 & 1#12EG IN 3/4"C	20	0.7	1	FUTURE RADON FANS	44
45	SPARE	1		20			0.1		2#12 & 1#12EG IN 3/4"C	20	0.1	1	HWR-2 PUMP	46
47	SPARE	1		20				0.3	2#12 & 1#12EG IN 3/4"C	20	0.3	1	VAV BOXES & MOD	48
49	SPARE	1		20		0.6			2#12 & 1#12EG IN 3/4"C	20	0.6	1	EF-10 & UH-A	50
51	SPARE	1		20			1.3		4#12 & 1#12EG IN 3/4"C	20	1.3	3	UNIT HEATER EUH-A	52
53	SPARE	1		20				1.3			1.3			54
55	SPARE	1		20		1.3					1.3			56
57	SPARE	1		20			0.6		3#12 & 1#12EG IN 3/4"C	20	0.6	2	PUMP P-6	58
59	SPARE	1		20				0.6			0.6			60
					TOTAL (PHASE):	15.7	16.6	17.4						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 150A
INTERRUPTING RATING: 65KA SYM.
FED FROM: NEW PANEL HPG

TOTAL CONNECTED LOAD.: 49.8 KVA
138.3 AMPS

NOTES
1. SINGLE SECTION PANELBOARD ALL NEW PANELBOARDS SHALL BE PROVIDED WITH INTEGRAL SURGE PROTECTION.
2. ALL BUSSING SHALL BE COPPER WITH BOLT ON BREAKERS ONLY
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.

NEW PANEL ST1
(NEW)

PRINCETON MIDDLE SCHOOL
RATING: 208/120V, 3 PH, 4W, 100A
JOB: NO.: 23463.003
LOCATION: PREP ROOM ST1

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	LAB H21 RECEPTACLES	1	0.4	20	2#12 & 1#12EG IN 3/4"C	0.7			2#12 & 1#12EG IN 3/4"C	20	0.4	1	LAB H20 RECEPTACLES	2
3	LAB H21 RECEPTACLES	1	0.4	20	2#12 & 1#12EG IN 3/4"C		0.9		2#12 & 1#12EG IN 3/4"C	20	0.5	1	LAB H20 RECEPTACLES	4
5	LAB H21 RECEPTACLES	1	0.5	20	2#12 & 1#12EG IN 3/4"C			1.0	2#12 & 1#12EG IN 3/4"C	20	0.5	1	LAB H20 RECEPTACLES	6
7	LAB H21 RECEPTACLES	1	0.5	20	2#12 & 1#12EG IN 3/4"C	1.1			2#12 & 1#12EG IN 3/4"C	20	0.5	1	LAB H20 RECEPTACLES	8
9	LAB H21 RECEPTACLES	1	0.4	20	2#12 & 1#12EG IN 3/4"C		0.7		2#12 & 1#12EG IN 3/4"C	20	0.4	1	LAB H20 RECEPTACLES	10
11	LAB H21 RECEPTACLES	1	0.5	20	2#12 & 1#12EG IN 3/4"C			0.9	2#12 & 1#12EG IN 3/4"C	20	0.4	1	LAB H20 RECEPTACLES	12
13	LAB H21 RECEPTACLES	1	0.5	20	2#12 & 1#12EG IN 3/4"C	1.0			2#12 & 1#12EG IN 3/4"C	20	0.5	1	LAB H20 RECEPTACLES	14
15	PREP ROOM RECEPT	1	0.5	20	2#12 & 1#12EG IN 3/4"C		0.5		2#12 & 1#12EG IN 3/4"C	20		1	SPARE	16
17	FUME HOOD	1	1.9	20	2#12 & 1#12EG IN 3/4"C			1.9	2#12 & 1#12EG IN 3/4"C	20		1	SPARE	18
19	GLASS WASHER	1	1.2	20	2#12 & 1#12EG IN 3/4"C	1.2			2#12 & 1#12EG IN 3/4"C	20		1	SPARE	20
21	REFRIGERATOR	1	0.9	20	2#12 & 1#12EG IN 3/4"C		0.9		2#12 & 1#12EG IN 3/4"C	20		1	SPARE	22
23	WASHER / DRYER UNIT	1	1.2	20	2#12 & 1#12EG IN 3/4"C			1.2	2#12 & 1#12EG IN 3/4"C	20		1	SPARE	24
					TOTAL (PHASE):	4.0	3.1	5.0						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN LUGS ONLY
INTERRUPTING RATING: 65KA SYM.
FED FROM: NEW PANEL RPH2

TOTAL CONNECTED LOAD.: 12.1 KVA
33.5 AMPS

NOTES
1. ALL NEW PANELS SHALL BE FURNISHED WITH INTEGRAL SURGE PROTECTION.
2. ALL BUSSING TO BE COPPER WITH BOLT ON BREAKERS ONLY. ALL BREAKERS SHALL BE GFCI TYPE.
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.
6. PROVIDE SHUNT TRIP RELAYS TO SHUT DOWN CIRCUITS UPON ACTIVIATION OF THE EMERGENCY POWER OFF PUSHBUTTONS.

EXISTING PANEL U5D
(EXISTING)

PRINCETON MIDDLE SCHOOL
RATING: 480/277V, 3 PH, 4W, 225A
JOB: NO.: 23463.003
LOCATION: ELECTRIC G30

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	EXISTING CLOSET LIGHTING	1		20	EXISTING	0.0				20		1	SPARE	2
3	EXISTING ROOM G36A LTG	1		20	EXISTING		0.0			20		1	SPARE	4
5	EXISTING CORRIDRO LIGHTING	1		20	EXISTING			0.0	EXISTING	20		1	EXISTING KITCHEN LTG	6
7	EXISTING CORRIDOR 'A' LTG	1		20	EXISTING	0.0			EXISTING	20		1	EXIST STORAGE G31 & G32 LTG	8
9	**ROOFTOP UNIT RTU-A101**	**3**	**4.4**	**25**	**4#10 & 1#10EG IN 3/4"C**		10.9		**4#8 & 1#10EG IN 3/4"C**	**35**	**6.4**	**3**	**ROOFTOP UNIT RTU-A102**	10
11			**4.4**					10.9			**6.4**			12
13			**4.4**			10.9					**6.4**			14
15	SPARE	1		20			6.4		**4#8 & 1#10EG IN 3/4"C**	**35**	**6.4**	**3**	**ROOFTOP UNIT RTU-A103**	16
17	SPARE	1		20				6.4			**6.4**			18
19	SPARE	1		20		6.4					**6.4**			20
21	SPARE	1		20			0.0			20		1	SPARE	22
23	SPARE	1		20				0.0		20		1	SPARE	24
25	EXISTING U5DL TRANSFORMER	3	10.0	60	EXISTING	10.0			EXISTING	60		3	EXISTING DRAMA ROOM DIMMER RACK	26
27			10.0				10.0							28
29			10.0					10.0						30
					TOTAL (PHASE):	27.3	27.3	27.3						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN LUGS ONLY
INTERRUPTING RATING: EXISTING KA SYM.
FED FROM:

TOTAL CONNECTED LOAD.: 81.8 KVA
98.5 AMPS

NOTES
1. EXISTING SQUARE D NQOD PANELBOARD
2. ALL NEW CIRCUIT BREAKERS SHALL MATCH EXISTING PANEL MANUFACTURER AND SHORT CIRCUIT RATING.
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. CONTRACTOR SHALL FIELD VERIFY ALL PANEL SPARES AND SPACES

KEY NOTES

1. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPARE(S) TO MATCH EXISTING PANELBOARD MANUFACTURER AND SHORT CIRCUIT RATING.
2. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE(S) TO MATCH EXISTING PANELBOARD MANUFACTURER AND SHORT CIRCUIT RATING.
3. PANEL SHOWN FOR REFERENCE ONLY.

NEW PANEL HPH1
(NEW)

PRIB2:P48NCETON MIDDLE SCHOOL
RATING: 480/277V, 3 PH, 4W, 400A
JOB: NO.: 23463.003
LOCATION: MECH-ELEC H10

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	PANEL HPH2	3		200	4#3/0 & 1#6EG IN 2"C	14.8			4#4 & 1#8EG IN 1-1/4"C	70	14.8	3	PANEL RPH1 VIA 45 KVA TRANSFORMER T-H1	2
3							16.8				16.8			4
5								16.4			16.4			6
7	MAIN OFFICE AREA LTG	1	1.5	20	2#12 & 1#12EG IN 3/4"C	6.5			2#10 & 1#10EG IN 3/4"C	30	5.0	1	CABINET HEATER ECH-B	8
9	CLASSROOM LIGHTING	1	0.9	20	2#12 & 1#12EG IN 3/4"C		4.4		4#12 & 1#12EG IN 3/4"C	20	3.5	3	CLASSROOM H12 UV-A	10
11	CORRIDOR & STAIR LTG	1	1.7	20	2#12 & 1#12EG IN 3/4"C			5.2			3.5			12
13	CLASSROOM LIGHTING	1	1.7	20	2#12 & 1#12EG IN 3/4"C	5.2					3.5			14
15	EXTERIOR LIGHTING	1	0.7	20	2#12 & 1#12EG IN 3/4"C		4.2		4#12 & 1#12EG IN 3/4"C	20	3.5	3	CLASSROOM H13 UV-A	16
17	WATER HTR WH-5 (ALT BID)	1	5.5	30	2#10 & 1#10EG IN 3/4"C			9.0			3.5			18
19	WATER HTR WH-6 (ALT BID)	1	5.5	30	2#10 & 1#10EG IN 3/4"C	9.0					3.5			20
21	WATER HEATER WH-4	1	13.3	60	2#6 & 1#10EG IN 1"C		16.8		4#12 & 1#12EG IN 3/4"C	20	3.5	3	CLASSROOM H14 UV-A	22
23	SPARE	1		20				3.5			3.5			24
25	SPARE	1		20		3.5					3.5			26
27	SPARE	1		20			3.5		4#12 & 1#12EG IN 3/4"C	20	3.5	3	CLASSROOM H07 UV-A	28
29	SPARE	1		20				3.5			3.5			30
31	SPARE	1		20		3.5					3.5			32
33	SPARE	1		20			3.5		4#12 & 1#12EG IN 3/4"C	20	3.5	3	CLASSROOM H08 UV-A	34
35	SPARE	1		20				3.5			3.5			36
37	SPARE	1		20		3.5					3.5			38
39	SPARE	1		20			5.0		2#8 & 1#10EG IN 3/4"C	40	5.0	1	CABINET HEATER ECH-C	40
41	SPARE	1		20				5.0	2#10 & 1#10EG IN 3/4"C	30	5.0	1	CAB HTR ECH-B (ALT BID)	42
43	SPARE	1		20		5.0			2#10 & 1#10EG IN 3/4"C	30	5.0	1	UNIT HEATER EUH-B	44
45	SPARE	1		20			2.6		4#12 & 1#12EG IN 3/4"C	15	2.6	3	CLASSROOM H09 UV-B	46
47	SPARE	1		20				2.6			2.6			48
49	SPARE	1		20		2.6					2.6			50
51	SPARE	1		20			2.6		4#12 & 1#12EG IN 3/4"C	15	2.6	3	CLASSROOM H09 UV-B	52
53	SPARE	1		20				2.6			2.6			54
55	SPARE	1		20		2.6					2.6			56
57	SPARE	1		20			5.0		2#8 & 1#10EG IN 3/4"C	40	5.0	1	CABINET HEATER ECH-C	58
59	SPARE	1		20				0.0		20		1	SPARE	60
					TOTAL (PHASE):	56.1	64.3	51.2						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 300A
INTERRUPTING RATING: 65KA SYM.
FED FROM: EXISTING PANEL MDP-2A

TOTAL CONNECTED LOAD.: 171.6 KVA
206.7 AMPS

NOTES
1. SINGLE SECTION PANELBOARD ALL NEW PANELBOARDS SHALL BE PROVIDED WITH INTEGRAL SURGE PROTECTION.
2. ALL BUSSING SHALL BE COPPER WITH BOLT ON BREAKERS ONLY
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.

NEW PANEL RPH1
(NEW)

PRINCETON MIDDLE SCHOOL
RATING: 208/120V, 3 PH, 4W, 225A
JOB: NO.: 23463.003
LOCATION: MECH-ELEC H10

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	OFFICE RECEPTACLES	1	0.9	20	2#12 & 1#12EG IN 3/4"C	1.0			2#12 & 1#12EG IN 3/4"C	20	0.1	1	UNDERCABINET LIGHTING	2
3	EWC & RECEPTACLES	1	1.1	20	2#12 & 1#12EG IN 3/4"C		2.2		2#12 & 1#12EG IN 3/4"C	20	1.1	1	CLASSROOM RECETPACLES	4
5	WORK ROOM RECEPTACLES	1	0.5	20	2#12 & 1#12EG IN 3/4"C			0.9	2#12 & 1#12EG IN 3/4"C	20	0.4	1	AV CABINET RECEPT	6
7	OFFICE RECEPTACLES	1	0.7	20	2#12 & 1#12EG IN 3/4"C	1.1			2#12 & 1#12EG IN 3/4"C	20	0.4	1	AV CABINET RECEPT	8
9	OFFICE RECEPTACLES	1	0.9	20	2#12 & 1#12EG IN 3/4"C		1.3		2#12 & 1#12EG IN 3/4"C	20	0.4	1	AV CABINET RECEPT	10
11	OFFICE RECEPTACLES	1	1.1	20	2#12 & 1#12EG IN 3/4"C			1.6	2#12 & 1#12EG IN 3/4"C	20	0.5	1	PROJECTOR RECEPTACLES	12
13	OFFICE RECEPTACLES	1	0.9	20	2#12 & 1#12EG IN 3/4"C	2.0			2#12 & 1#12EG IN 3/4"C	20	1.1	1	CLASSROOM RECETPACLES	14
15	CONFERENCE RM RECEPT	1	0.9	20	2#12 & 1#12EG IN 3/4"C		2.0		2#12 & 1#12EG IN 3/4"C	20	1.1	1	CLASSROOM RECETPACLES	16
17	COPIER	1	1.2	20	2#12 & 1#12EG IN 3/4"C			2.8	2#12 & 1#12EG IN 3/4"C	20	1.6	1	EWC & RECEPTACLES	18
19	RECEPTACLES	1	0.5	20	2#12 & 1#12EG IN 3/4"C	1.4			2#12 & 1#12EG IN 3/4"C	20	0.9	1	RECEEPTACLES	20
21	REFRIGERATOR	1	1.2	20	2#12 & 1#12EG IN 3/4"C		1.6		2#12 & 1#12EG IN 3/4"C	20	0.4	1	AV CABINET RECEPT	22
23	DISHWASHER	1	0.9	20	2#12 & 1#12EG IN 3/4"C			1.3	2#12 & 1#12EG IN 3/4"C	20	0.4	1	AV CABINET RECEPT	24
25	MAIN OFFICE RECEPTACLES	1	0.9	20	2#12 & 1#12EG IN 3/4"C	1.3			2#12 & 1#12EG IN 3/4"C	20	0.4	1	AV CABINET RECEPT	26
27	MAIN OFFICE RECEPTACLES	1	0.9	20	2#12 & 1#12EG IN 3/4"C		1.3		2#12 & 1#12EG IN 3/4"C	20	0.4	1	AV CABINET RECEPT	28
29	LOBBY RECEPTACLES	1	0.9	20	2#12 & 1#12EG IN 3/4"C			2.0	2#12 & 1#12EG IN 3/4"C	20	1.1	1	CLASSROOM RECETPACLES	30
31	EXTERIOR RECEPTACLES	1	0.7	20	2#12 & 1#12EG IN 3/4"C	1.8			2#12 & 1#12EG IN 3/4"C	20	1.1	1	CLASSROOM RECETPACLES	32
33	CONFERENCE RM RECEPT	1	0.9	20	2#12 & 1#12EG IN 3/4"C		1.3		2#12 & 1#12EG IN 3/4"C	20	0.4	1	PROJECTOR RECEPTACLES	34
35	OFFICE RECEPTACLES	1	0.7	20	2#12 & 1#12EG IN 3/4"C			1.1	2#12 & 1#12EG IN 3/4"C	20	0.4	1	PROJECTOR RECEPTACLES	36
37	OFFICE RECEPTACLES	1	0.9	20	2#12 & 1#12EG IN 3/4"C	1.6			2#12 & 1#12EG IN 3/4"C	20	0.7	1	CLASSROOM RECETPACLES	38
39	OFFICE RECEPTACLES	1	0.9	20	2#12 & 1#12EG IN 3/4"C		1.6		2#12 & 1#12EG IN 3/4"C	20	0.7	1	CLASSROOM RECETPACLES	40
41	RECEPTACLES	1	0.5	20	2#12 & 1#12EG IN 3/4"C			1.4	2#12 & 1#12EG IN 3/4"C	20	0.9	1	VAV BOXES	42
43	COPIER	1	1.2	20	2#12 & 1#12EG IN 3/4"C	2.4			2#12 & 1#12EG IN 3/4"C	20	1.2	1	MAIN OFFICE TV MONTIORS	44
45	RECEPTACLES	1	0.9	20	2#12 & 1#12EG IN 3/4"C		1.2		2#12 & 1#12EG IN 3/4"C	20	0.3	1	EF-8, EF-9, CP-FCU & MOD'S	46
47	HELP DESK OFFICE	1	0.9	20	2#12 & 1#12EG IN 3/4"C			1.4	2#12 & 1#12EG IN 3/4"C	15	0.5	1	UNIT HEATER UH-A	48
49	KITCHENETTE RECEPT	1	0.2	20	2#12 & 1#12EG IN 3/4"C	0.6			2#12 & 1#12EG IN 3/4"C	15	0.5	1	UNIT HEATER UH-A	50
51	KITCHENETTE RECEPT	1	0.2	20	2#12 & 1#12EG IN 3/4"C		0.7		2#12 & 1#12EG IN 3/4"C	20	0.5	1	ATC PANEL	52
53	IT WORKSHOP RECEPT	1	0.5	20	2#12 & 1#12EG IN 3/4"C			1.2	2#12 & 1#12EG IN 3/4"C	20	0.7	1	WATER HEATER WH-1 & HWR-1	54
55	SPARE	1		20		0.6			2#12 & 1#12EG IN 3/4"C	20	0.6	1	WATER HEATER WH-2	56
57	SPARE	1		20			2.8		3#6 & 1#10EG IN 1"C	60	2.8	2	FCU-5 / CU-5	58
59	SPARE	1		20				2.8			2.8			60
61	SPARE	1		20		1.0			3#12 & 1#12EG IN 3/4"C	15	1.0	2	EDH-2	62
63	SPARE	1		20			1.0				1.0			64
65	SPARE	1		20				0.0		20		1	SPARE	66
67	SPARE	1		20		0.0				20		1	SPARE	68
69	SPARE	1		20			0.0			20		1	SPARE	70
71	SPARE	1		20				0.0		20		1	SPARE	72
					TOTAL (PHASE):	14.8	16.8	16.4						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 150A
INTERRUPTING RATING: 65KA SYM.
FED FROM: NEW PANEL HPH1

TOTAL CONNECTED LOAD.: 48.1 KVA
133.7 AMPS

NOTES
1. SINGLE SECTION PANELBOARD ALL NEW PANELBOARDS SHALL BE PROVIDED WITH INTEGRAL SURGE PROTECTION.
2. ALL BUSSING SHALL BE COPPER WITH BOLT ON BREAKERS ONLY
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.

NEW PANEL HPH2
(NEW)

PRINCETON MIDDLE SCHOOL
RATING: 480/277V, 3 PH, 4W, 400A
JOB: NO.: 23463.003
LOCATION: MECH-ELEC H27

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	CORR & COMMON AREA LTG	1	1.4	20	2#12 & 1#12EG IN 3/4"C	13.4			4#1 & 1#8EG IN 2"C	125	12.0	3	PANEL RPH2 VIA 75 KVA TRANSFORMER T-H2	2
3	CLASSROOM LIGHTING	1	1.6	20	2#12 & 1#12EG IN 3/4"C		13.9				12.3			4
5	CLASSROOM LIGHTING	1	1.1	20	2#12 & 1#12EG IN 3/4"C			12.5			11.4			6
7	CLASSROOM H24 UV-A	3	3.5	20	4#12 & 1#12EG IN 3/4"C	7.9			4#10 & 1#10EG IN 3/4"C	25	4.4	3	ROOFTOP UNIT RTU-3	8
9			3.5				7.9				4.4			10
11			3.5					7.9			4.4			12
13	CLASSROOM H25 UV-A	3	3.5	20	4#12 & 1#12EG IN 3/4"C	7.9			4#10 & 1#10EG IN 3/4"C	25	4.4	3	ROOFTOP UNIT RTU-4	14
15			3.5				7.9				4.4			16
17			3.5					7.9			4.4			18
19	SPARE	1		20	2#12 & 1#12EG IN 3/4"C	7.1			4#8 & 1#10EG IN 1"C	40	7.1	3	ENERGY RECOVERY ERU-2	20
21	SPARE	1		20	2#12 & 1#12EG IN 3/4"C		7.1				7.1			22
23	SPARE	1		20	2#12 & 1#12EG IN 3/4"C			7.1			7.1			24
25	SPARE	1		20	2#12 & 1#12EG IN 3/4"C	4.4			4#10 & 1#10EG IN 3/4"C	25	4.4	3	ROOFTOP UNIT RTU-2	26
27	SPARE	1		20	2#12 & 1#12EG IN 3/4"C		4.4				4.4			28
29	SPARE	1		20	2#12 & 1#12EG IN 3/4"C			4.4			4.4			30
31	SPARE	1		20	2#12 & 1#12EG IN 3/4"C	4.4			4#10 & 1#10EG IN 3/4"C	25	4.4	3	ROOFTOP UNIT RTU-1	32
33	SPARE	1		20	2#12 & 1#12EG IN 3/4"C		4.4				4.4			34
35	SPARE	1		20	2#12 & 1#12EG IN 3/4"C			4.4			4.4			36
37	SPARE	1		20	2#12 & 1#12EG IN 3/4"C	5.0			2#10 & 1#10EG IN 3/4"C	30	5.0	1	CABINET HEATER ECH-B	38
39	SPARE	1		20	2#12 & 1#12EG IN 3/4"C		5.0		2#10 & 1#10EG IN 3/4"C	30	5.0	1	UNIT HEATER EUH-B	40
41	SPARE	1		20	2#12 & 1#12EG IN 3/4"C			5.0	2#10 & 1#10EG IN 3/4"C	30	5.0	1	CABINET HEATER ECH-B	42
43	SPARE	1		20	2#12 & 1#12EG IN 3/4"C	2.6			4#12 & 1#12EG IN 3/4"C	15	2.6	3	CLASSROOM H26 UV-B	44
45	SPARE	1		20	2#12 & 1#12EG IN 3/4"C		2.6				2.6			46
47	SPARE	1		20	2#12 & 1#12EG IN 3/4"C			2.6			2.6			48
49	SPARE	1		20	2#12 & 1#12EG IN 3/4"C	2.6			4#12 & 1#12EG IN 3/4"C	15	2.6	3	CLASSROOM H26 UV-B	50
51	SPARE	1		20	2#12 & 1#12EG IN 3/4"C		2.6				2.6			52
53	SPARE	1		20	2#12 & 1#12EG IN 3/4"C			2.6			2.6			54
55	SPARE	1		20	2#12 & 1#12EG IN 3/4"C	0.0				20		1	SPARE	56
57	SPARE	1		20	2#12 & 1#12EG IN 3/4"C		0.0			20		1	SPARE	58
59	SPARE	1		20	2#12 & 1#12EG IN 3/4"C			0.0		20		1	SPARE	60
					TOTAL (PHASE):	55.5	56.1	54.7						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 400A
INTERRUPTING RATING: 65KA SYM.
FED FROM: NEW PANEL HPH1

TOTAL CONNECTED LOAD.: 166.2 KVA
200.2 AMPS

NOTES
1. SINGLE SECTION PANELBOARD ALL NEW PANELBOARDS SHALL BE PROVIDED WITH INTEGRAL SURGE PROTECTION.
2. ALL BUSSING SHALL BE COPPER WITH BOLT ON BREAKERS ONLY
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.

NEW PANEL RPH2
(NEW)

PRINCETON MIDDLE SCHOOL
RATING: 208/120V, 3 PH, 4W, 225A
JOB: NO.: 23463.003
LOCATION: MECH-ELEC H27

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	PREP ROOM PANEL ST1	3	4.0	60	4#6 & 1#10EG IN 1-1/4"C	4.5			2#12 & 1#12EG IN 3/4"C	20	0.5	1	RECEPTACLES	2
3			3.1				4.5		2#12 & 1#12EG IN 3/4"C	20	1.4	1	EWC & RECEPTACLES	4
5			5.0					6.3	2#12 & 1#12EG IN 3/4"C	20	1.3	1	RECEPTACLES	6
7	AV CABINET QUAD	1	0.4	20	2#12 & 1#12EG IN 3/4"C	1.6			2#12 & 1#12EG IN 3/4"C	20	1.3	1	RECEPTACLES	8
9	AV CABINET QUAD	1	0.4	20	2#12 & 1#12EG IN 3/4"C		1.3		2#12 & 1#12EG IN 3/4"C	20	0.9	1	RECEPTACLES	10
11	AV CABINET QUAD	1	0.4	20	2#12 & 1#12EG IN 3/4"C			1.3	2#12 & 1#12EG IN 3/4"C	20	0.9	1	RECEPTACLES	12
13	AV CABINET QUAD	1	0.4	20	2#12 & 1#12EG IN 3/4"C	0.7			2#12 & 1#12EG IN 3/4"C	20	0.4	1	RECEPTACLES	14
15	PROJECTOR RECEPTACLES	1	0.6	20	2#12 & 1#12EG IN 3/4"C		1.1		2#12 & 1#12EG IN 3/4"C	15	0.5	1	EXHAUST FAN EF-1	16
17	PROJECTOR RECEPTACLES	1	0.6	20	2#12 & 1#12EG IN 3/4"C			1.5	2#12 & 1#12EG IN 3/4"C	20	0.9	1	ROOF RECEPTACLES	18
19	ATC PANEL	1	0.5	20	2#12 & 1#12EG IN 3/4"C	0.9			2#12 & 1#12EG IN 3/4"C	15	0.4	1	EXHAUST FAN EF-7	20
21	SPARE	1		20			0.6		3#12 & 1#12EG IN 3/4"C	15	0.6	2	FUME HOOD FHEF-1	22
23	SPARE	1		20				0.6			0.6			24
25	SPARE	1		20		0.5			2#12 & 1#12EG IN 3/4"C	15	0.5	1	EXHAUST FAN EF-2	26
27	SPARE	1		20			1.2		2#12 & 1#12EG IN 3/4"C	20	1.2	1	EXHAUST FAN EF-3	28
29	SPARE	1		20				0.0		20		1	SPARE	30
31	SPARE	1		20		0.0				20		1	SPARE	32
33	SPARE	1		20			0.0			20		1	SPARE	34
35	SPARE	1		20				0.0		20		1	SPARE	36
37	SPARE	1		20		0.0				20		1	SPARE	38
39	SPARE	1		20			0.0			20		1	SPARE	40
41	SPARE	1		20				0.2	2#12 & 1#12EG IN 3/4"C	20	0.2	1	EF-11 & MOD	42
43	SPARE	1		20		1.9			2#12 & 1#12EG IN 3/4"C	20	1.9	1	BOILER B-1	44
45	SPARE	1		20			1.9		2#12 & 1#12EG IN 3/4"C	20	1.9	1	BOILER B-2	46
47	SPARE	1		20				0.5	2#12 & 1#12EG IN 3/4"C	20	0.5	1	VAV BOXES & MOD	48
49	SPARE	1		20		1.3			3#12 & 1#12EG IN 3/4"C	15	1.3	2	DUCT HEATER EDH-1	50
51	SPARE	1		20			1.3				1.3			52
53	SPARE	1		20				0.6	3#12 & 1#12EG IN 3/4"C	15	0.6	2	BOILER PUMP P-1	54
55	SPARE	1		20		0.6					0.6			56
57	SPARE	1		20			0.6		3#12 & 1#12EG IN 3/4"C	15	0.6	2	BOILER PUMP P-2	58
59	SPARE	1		20				0.6			0.6			60
					TOTAL (PHASE):	12.0	12.3	11.4						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 225A
INTERRUPTING RATING: 65KA SYM.
FED FROM: NEW PANEL HPH2

TOTAL CONNECTED LOAD.: 35.7 KVA
99.3 AMPS

NOTES
1. SINGLE SECTION PANELBOARD ALL NEW PANELBOARDS SHALL BE PROVIDED WITH INTEGRAL SURGE PROTECTION.
2. ALL BUSSING SHALL BE COPPER WITH BOLT ON BREAKERS ONLY
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.

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EXISTING PANEL EM1A
(EXISTING)

PRINCETON MIDDLE SCHOOL
RATING: 480/277V, 3 PH, 4W, 400A
JOB: NO.: 23463.003
LOCATION: BASMENT BLOCK B

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	EXISTING SUMP PUMPS #3 & #4	3	3.0	20	EXISTING	3.0				20		3	SPARE	2
3			3.0				3.0							4
5			3.0					3.0						6
7	SPARE	3		30		4.0			EXISTING	30	4.0	3	EXISTING PANEL LSLU5 VIA TRANSFORMER T-1	8
9							5.6				5.6			10
11								4.7			4.7			12
13	EXISTING PANEL EMLV1A VIA TRANSFORMER EM	3	12.9	70	EXISTING	15.9			EXISTING	20	3.0	1	EXISTING CAFETERIA LTG	14
15			12.9				13.9		EXISTING	20	1.0	1	EXISTING MAIN ELEC RM LTG	16
17			8.9					11.9	EXISTING	20	3.0	1	EXISTING CAFETERIA LTG	18
19	SPARE	1		20		0.0				20		1	SPARE	20
21	SPARE	1		20			3.0		EXISTING	20	3.0	1	EXISTING CAFETERIA LTG	22
23	SPARE	1		20				0.0		20		1	SPARE	24
25	SPARE	1		20		0.0				20		1	SPARE	26
27	**NEW PANEL EMH (H-WING LIFE SAFETY PANEL)**	**3**	**12.4**	**70**	**4#4 & 1#8EG IN 1-1/4"C**		12.4		#N/A			1	SPACE	28
29			**8.8**					8.8	#N/A			1	SPACE	30
31			**7.6**			7.6			#N/A			1	SPACE	32
33	**NEW PANEL EMG (G-WING LIFE SAFETY PANEL)**	**3**	**5.1**	**70**	**4#4 & 1#8EG IN 1-1/4"C**		5.1		#N/A			1	SPACE	34
35			**4.4**					4.4	#N/A			1	SPACE	36
37			**5.0**			5.0			#N/A			1	SPACE	38
39	SPACE	1			#N/A		0.0		#N/A			1	SPACE	40
41	SPACE	1			#N/A			0.0	#N/A			1	SPACE	42
	SPARE (FIELD VERIFY)	3		350		0.0								
							0.0							
								0.0						
					TOTAL (PHASE):	35.4	42.9	32.7						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 400A
INTERRUPTING RATING: EXISTING KA SYM.
FED FROM: MDS-2A AND ATS-1A

TOTAL CONNECTED LOAD.: 111.1 KVA
133.8 AMPS

NOTES
1. EXISTING SIEMENS TYPE P4 PANELBOARD
2. ALL NEW CIRCUIT BREAKERS SHALL MATCH EXISTING PANEL MANUFACTURER AND SHORT CIRCUIT RATING.
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. CONTRACTOR SHALL FIELD VERIFY ALL PANEL SPARES AND SPACES

EXISTING PANEL EMLV1A #1
(EXISTING)

PRINCETON MIDDLE SCHOOL
RATING: 208/120V, 3 PH, 4W, 225A
JOB: NO.: 23463.003
LOCATION: BASMENT BLOCK B

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	EXIST SUMP CONTROLLER #1&2	1	1.0	20	EXISTING	1.0				15		3	SPARE	2
3	EXISTING SUMP PUMP #1	1	1.0	20	EXISTING		1.0							4
5	EXISTING SUMP PUMP #2	1	1.0	20	EXISTING			1.0						6
7	EXIST SUMP CONTROLLER #5&6	1	1.0	20	EXISTING	2.4			EXISTING	20	1.4	3	EXISTING WALK-IN FREEZER	8
9	EXISTING SUMP PUMP #5	1	1.0	20	EXISTING		2.4				1.4			10
11	EXISTING SUMP PUMP #6	1	1.0	20	EXISTING			2.4			1.4			12
13	EXISTING IDF G101B	1	1.0	20	EXISTING	2.0			EXISTING	20	1.0	1	EXISTING ROOF FAN KITCHEN	14
15	EXISTING CONDENSATE G101B	1	1.0	20	EXISTING		2.5		EXISTING	20	1.5	1	EXISTING REACH-IN FREEZER	16
17	SPARE	1		20				1.5	EXISTING	20	1.5	1	EXISTING REACH-IN FREEZER	18
19	SPARE	1		20		1.5			EXISTING	20	1.5	1	EXIST WALK-IN EVAPORATOR	20
21	SPARE	1		20			1.0		**3#12 & 1#12EG IN 3/4"C**	**20**	**1.0**	**2**	**NEW GENSET BLOCK HEATER**	22
23	SPARE	1		20				1.0			**1.0**			24
25	SPARE	1		20		1.0			**2#12 & 1#12EG IN 3/4"C**	**20**	**1.0**	**1**	**NEW GENSET STRIP HTR**	26
27	SPARE	1		20			1.0		**2#12 & 1#12EG IN 3/4"C**	**20**	**1.0**	**1**	**NEW GENSET BATTERY CHGR**	28
29	SPARE	1		20				0.0		20		1	SPARE	30
31	SPARE	1		20		0.0				20		1	SPARE	32
33	SPARE	1		20			0.0			20		1	SPARE	34
35	SPARE	1		20				0.0		20		1	SPARE	36
37	EXISTING AC ROOM G101B	2		30	EXISTING	0.0			EXISTING	20		2	EXISTING GENSET JACKET HEATER - FUTURE SPARE	38
39							0.0							40
41	SPACE	1			#N/A			0.0	EXISTING	20		1	EXIST GENSET BATT CHARGER	42
					TOTAL (PHASE):	7.9	7.9	5.9						

1

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 150A
INTERRUPTING RATING: EXISTING KA SYM.
FED FROM: EXISTING PANEL EM1A

TOTAL CONNECTED LOAD.: 34.6 KVA
96.2 AMPS

NOTES
1. EXISTING SQUARE D NQOD PANELBOARD
2. ALL NEW CIRCUIT BREAKERS SHALL MATCH EXISTING PANEL MANUFACTURER AND SHORT CIRCUIT RATING.
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. CONTRACTOR SHALL FIELD VERIFY ALL PANEL SPARES AND SPACES

NEW PANEL EMG (G-WING)
(NEW)

PRINCETON MIDDLE SCHOOL
RATING: 480/277V, 3 PH, 4W, 100A
JOB: NO.: 23463.003
LOCATION: ELEC/MECH G108D

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	NEW PANEL EMGR VIA 15 KVA TRANSFORMER T-EMG	3	1.3	25	4#10 & 1#10EG IN 3/4"C	4.7			2#12 & 1#12EG IN 3/4"C	20	3.5	1	NEW GYM LIGHTING	2
3			3.4				4.4		2#12 & 1#12EG IN 3/4"C	20	1.1	1	GYM CORRIDORS, ETC.	4
5			3.0					5.0	2#12 & 1#12EG IN 3/4"C	20	2.0	1	NEW CAFETERIAL LTG	6
7	PIPE TUNNEL LIGHTING	1		20	2#12 & 1#12EG IN 3/4"C	0.4			2#12 & 1#12EG IN 3/4"C	20	0.4	1	EXTERIOR LIGHTING	8
9	SPARE	1		20			0.0			20		1	SPARE	10
11	SPARE	1		20				0.0		20		1	SPARE	12
13	SPARE	1		20		0.0				20		1	SPARE	14
15	SPARE	1		20			0.0			20		1	SPARE	16
17	SPARE	1		20				0.0		20		1	SPARE	18
19	SPARE	1		20		0.0				20		1	SPARE	20
21	SPARE	1		20			0.0			20		1	SPARE	22
23	SPARE	1		20				0.0		20		1	SPARE	24
25	SPARE	1		20		0.0				20		1	SPARE	26
27	SPARE	1		20			0.0			20		1	SPARE	28
29	SPARE	1		20				0.0		20		1	SPARE	30
					TOTAL (PHASE):	5.1	4.4	5.0						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 70A
INTERRUPTING RATING: 65KA SYM.
FED FROM: EXISTING PNAEL EM1A

TOTAL CONNECTED LOAD.: 14.5 KVA
17.4 AMPS

NOTES
1. ALL NEW PANELS SHALL BE FURNISHED WITH INTEGRAL SURGE PROTECTION.
2. ALL BUSSING TO BE COPPER WITH BOLT ON BREAKERS ONLY
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.

NEW PANEL EMGR (G-WING)
(NEW)

PRINCETON MIDDLE SCHOOL
RATING: 208/120V, 3 PH, 4W, 100A
JOB: NO.: 23463.003
LOCATION: ELEC/MECH G108D

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	IDF ROOM #A12 QUAD	1	0.4	20	2#12 & 1#12EG IN 3/4"C	0.9			2#12 & 1#12EG IN 3/4"C	20	0.5	1	CHARGING STATION RECEPT	2
3	IDF ROOM #A12 UPS	1	1.5	20	2#12 & 1#12EG IN 3/4"C		2.0		2#12 & 1#12EG IN 3/4"C	20	0.5	1	CHARGING STATION RECEPT	4
5	IDF ROOM G-1A UPS	1	1.5	20	2#12 & 1#12EG IN 3/4"C			1.7	2#12 & 1#12EG IN 3/4"C	20	0.2	1	CONDENSATE PUMP	6
7	IDF ROOM G-1A QUAD	1	0.4	20	2#12 & 1#12EG IN 3/4"C	0.4				20		1	SPARE	8
9	3#12 & 1#12EG IN 3/4"C	30	1.3	2	FCU-2 / CU-2		1.3			20		1	SPARE	10
11			1.3					1.3		20		1	SPARE	12
13	SPARE	1		20		0.0				20		1	SPARE	14
15	SPARE	1		20			0.0			20		1	SPARE	16
17	SPARE	1		20				0.0		20		1	SPARE	18
19	SPARE	1		20		0.0				20		1	SPARE	20
21	SPARE	1		20			0.0			20		1	SPARE	22
23	SPARE	1		20				0.0		20		1	SPARE	24
					TOTAL (PHASE):	1.3	3.4	3.0						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 60A
INTERRUPTING RATING: 65KA SYM.
FED FROM: EXISTING PNAEL EM1A

TOTAL CONNECTED LOAD.: 7.6 KVA
21.2 AMPS

NOTES
1. ALL BUSSING TO BE COPPER WITH BOLT ON BREAKERS ONLY
2. ALL RECEPTACLES CIRCUITED TO THIS PANEL SHALL BE COLOR "RED".
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.
6. ALL NEW PANELS SHALL BE FURNISHED WITH INTEGRAL SURGE PROTECTION.

KEY NOTES

1 PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPARES TO MATCH EXISTING PANELBOARD MANUFACTURER AND SHORT CIRCUIT RATING.

NEW PANEL EMH (H-WING)
(NEW)

PRINCETON MIDDLE SCHOOL
RATING: 480/277V, 3 PH, 4W, 100A
JOB: NO.: 23463.003
LOCATION: ELEC/MECH H10

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	NEW PANEL EMHR VIA 30 KVA TRANSFORMER T-EMH	3	8.3	45	4#8 & 1#10EG IN 1"C	9.7			2#12 & 1#12EG IN 3/4"C	20	1.4	1	IT OFFICE LIGHTING	2
3			6.1				6.1			20		1	SPARE	4
5			4.9					4.9		20		1	SPARE	6
7	NEW DUPLEX SANITARY LIFT STATION & CONTROL PANEL	3	2.7	20	4#10 & 1#10EG IN 1"C	2.7				20		1	SPARE	8
9			2.7				2.7			20		1	SPARE	10
11			2.7					2.7		20		1	SPARE	12
13	SPARE	1		20		0.0				20		1	SPARE	14
15	SPARE	1		20			0.0			20		1	SPARE	16
17	SPARE	1		20				0.0		20		1	SPARE	18
19	SPARE	1		20		0.0				20		1	SPARE	20
21	SPARE	1		20			0.0			20		1	SPARE	22
23	SPARE	1		20				0.0		20		1	SPARE	24
25	SPARE	1		20		0.0				20		1	SPARE	26
27	SPARE	1		20			0.0			20		1	SPARE	28
29	SPARE	1		20				0.0		20		1	SPARE	30
					TOTAL (PHASE):	12.4	8.8	7.6						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 70A
INTERRUPTING RATING: 65KA SYM.
FED FROM: EXISTING PNAEL EM1A

TOTAL CONNECTED LOAD.: 28.7 KVA
34.6 AMPS

NOTES
1. ALL NEW PANELS SHALL BE FURNISHED WITH INTEGRAL SURGE PROTECTION.
2. ALL BUSSING TO BE COPPER WITH BOLT ON BREAKERS ONLY
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.

NEW PANEL EMHR (H-WING)
(NEW)

PRINCETON MIDDLE SCHOOL
RATING: 208/120V, 3 PH, 4W, 100A
JOB: NO.: 23463.003
LOCATION: ELEC/MECH G108D

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	NURSE REFRIGERATOR	1	1.2	20	2#12 & 1#12EG IN 3/4"C	1.6			4#8 & 1#10EG IN 1"C	50	0.4	3	PANE EM-MDF	2
3	NURSE ICE MAKER	1	1.2	20	2#12 & 1#12EG IN 3/4"C		1.2				0.0			4
5	2ND FLOOR BACKBOARD	1	0.4	20	2#12 & 1#12EG IN 3/4"C			0.4			0.0			6
7	1ST FLOOR BACKBOARD	1	0.4	20	2#12 & 1#12EG IN 3/4"C	2.4			3#6 & 1#10EG IN 1"C	60	2.0	2	FCU-1 / CU-1	8
9	MAIN OFFICE INTERCOM QUAD	1	0.5	20	2#12 & 1#12EG IN 3/4"C		2.5				2.0			10
11	MAIN OFFICE SOUND QUAD	1	0.5	20	2#12 & 1#12EG IN 3/4"C			2.3	3#8 & 1#10EG IN 1"C	40	1.8	2	FCU-3 / CU-3 (ALTERNATE BID)	12
13	MAIN OFFICE FIRE ALARM	1	0.5	20	2#12 & 1#12EG IN 3/4"C	2.3					1.8			14
15	SECURITY OFFICE RECEPT	1	0.5	20	2#12 & 1#12EG IN 3/4"C		2.4		3#10 & 1#10EG IN 3/4"C	30	1.8	2	FCU-4 / CU-4	16
17	IDF ROOM H11D QUAD	1	0.4	20	2#12 & 1#12EG IN 3/4"C			2.2			1.8			18
19	IDF ROOM H11D UPS	1	1.5	20	2#12 & 1#12EG IN 3/4"C	2.0			2#12 & 1#12EG IN 3/4"C	20	0.5	1	CONDENSATE PUMPS	20
21	SPARE	1		20			0.0			20		1	SPARE	22
23	SPARE	1		20				0.0		20		1	SPARE	24
25	SPARE	1		20		0.0				20		1	SPARE	26
27	SPARE	1		20			0.0			20		1	SPARE	28
29	SPARE	1		20				0.0		20		1	SPARE	30
					TOTAL (PHASE):	8.3	6.1	4.9						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 100A
INTERRUPTING RATING: 65KA SYM.
FED FROM: NEW PANEL EMH

TOTAL CONNECTED LOAD.: 19.2 KVA
53.4 AMPS

NOTES
1. ALL BUSSING TO BE COPPER WITH BOLT ON BREAKERS ONLY
2. ALL RECEPTACLES CIRCUITED TO THIS PANEL SHALL BE COLOR "RED".
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.
6. ALL NEW PANELS SHALL BE FURNISHED WITH INTEGRAL SURGE PROTECTION.

NEW PANEL EM-MDF
(NEW)

PRINCETON MIDDLE SCHOOL
RATING: 208/120V, 3 PH, 4W, 100A
JOB: NO.: 23463.003
LOCATION: ELEC/MECH G108D

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	MDP RACK QUAD	1	0.4	20	2#12 & 1#12EG IN 3/4"C	0.4				20		1	SPARE	2
3	SPARE	1		20			0.0			20		1	SPARE	4
5	SPARE	1		20				0.0		20		1	SPARE	6
7	SPARE	1		20		0.0				20		1	SPARE	8
9	SPARE	1		20			0.0			20		1	SPARE	10
11	SPARE	1		20				0.0		20		1	SPARE	12
13	SPARE	1		20		0.0				20		1	SPARE	14
15	SPARE	1		20			0.0			20		1	SPARE	16
17	SPARE	1		20				0.0		20		1	SPARE	18
					TOTAL (PHASE):	0.4	0.0	0.0						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN LUGS ONLY
INTERRUPTING RATING: 65KA SYM.
FED FROM: NEW PANEL EMHR

TOTAL CONNECTED LOAD.: 0.4 KVA
1.0 AMPS

NOTES
1. ALL NEW PANELS SHALL BE FURNISHED WITH INTEGRAL SURGE PROTECTION.
2. ALL BUSSING TO BE COPPER WITH BOLT ON BREAKERS ONLY
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.

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P-1	BOILER PUMP	460V-3Ø	3.0		4.8	6.0	15	SEE PANEL SCHEDULES	30	3	15	NEMA 1	NO	
P-2	BOILER PUMP	460V-3Ø	3.0		4.8	6.0	15	SEE PANEL SCHEDULES	30	3	15	NEMA 1	NO	
P-3	FREEZE PROTECTION PUMPS	208V-1Ø	1/2		5.4	6.8	15	SEE DRAWING KEY NOTE	30	2	15	NEMA 1	NO	
P-4	FREEZE PROTECTION PUMPS	208V-1Ø	1/2		5.4	6.8	15	SEE DRAWING KEY NOTE	30	2	15	NEMA 1	NO	
P-5	FREEZE PROTECTION PUMPS	208V-1Ø	1/2		5.4	6.8	15	SEE DRAWING KEY NOTE	30	2	15	NEMA 1	NO	
P-6	FREEZE PROTECTION PUMPS	208V-1Ø	1/2		5.4	6.8	15	SEE PANEL SCHEDULES	30	2	15	NEMA 1	NO	
EDH-1	ELECTRIC DUCT HEATER	208V-1Ø		2.5		12.0	15.0	SEE PANEL SCHEDULES	30	2	15	NEMA 1	NO	
EDH-2	ELECTRIC DUCT HEATER	208V-1Ø		2.0		9.6	15.0	SEE PANEL SCHEDULES	30	2	15	NEMA 1	NO	
VAV-X	TYPICAL VAV BOX	120V-1Ø						SEE PANEL SCHEDULES	⟨9⟩			NEMA 1	NO	
FCU-1	FAN COIL UNIT	208V-1Ø				-	-	SEE PANEL SCHEDULES	⟨5⟩	-	-	NEMA 1	NO	POWERED BY CU-1
FCU-2	FAN COIL UNIT	208V-1Ø				-	-	SEE PANEL SCHEDULES	⟨5⟩	-	-	NEMA 1	NO	POWERED BY CU-2
FCU-3	FAN COIL UNIT - ALTERNATE BID	208V-1Ø				-	-	SEE PANEL SCHEDULES	⟨5⟩	-	-	NEMA 1	NO	POWERED BY CU-3
FCU-4	FAN COIL UNIT	208V-1Ø				-	-	SEE PANEL SCHEDULES	⟨5⟩	-	-	NEMA 1	NO	POWERED BY CU-4
FCU-5	FAN COIL UNIT	208V-1Ø				-	-	SEE PANEL SCHEDULES	⟨5⟩	-	-	NEMA 1	NO	POWERED BY CU-5
CU-1	CONDENSING UNIT	208V-1Ø				34.0	60	SEE PANEL SCHEDULES	60	2	60	NEMA 3R	NO	INTERLOCK WITH FCU-1
CU-2	CONDENSING UNIT	208V-1Ø				16.0	30	SEE PANEL SCHEDULES	30	2	30	NEMA 3R	NO	INTERLOCK WITH FCU-2
CU-3	CONDENSING UNIT - ALTERNATE BID	208V-1Ø				22.0	40	SEE PANEL SCHEDULES	60	2	40	NEMA 3R	NO	INTERLOCK WITH FCU-3
CU-4	CONDENSING UNIT	208V-1Ø				16.0	30	SEE PANEL SCHEDULES	30	2	30	NEMA 3R	NO	INTERLOCK WITH FCU-4
CU-5	CONDENSING UNIT	208V-1Ø				34.0	60	SEE PANEL SCHEDULES	60	2	60	NEMA 3R	NO	INTERLOCK WITH FCU-4
CP-FCU	CONDENSATE PUMP	120V-1Ø	1/30		1.5	1.9	15	SEE PANEL SCHEDULES	⟨8⟩	-	-	NEMA 1	NO	
EF-1	EXHAUST FAN	115V-1Ø	1/6		4.4	5.5	15	SEE PANEL SCHEDULES	⟨10⟩			NEMA 3R	NO	
EF-2	EXHAUST FAN	115V-1Ø	1/6		4.4	5.5	15	SEE PANEL SCHEDULES	⟨10⟩			NEMA 3R	NO	
EF-3	EXHAUST FAN	115V-1Ø	1/2		9.8	12.3	20	SEE PANEL SCHEDULES	⟨10⟩			NEMA 3R	NO	
EF-4	EXHAUST FAN	115V-1Ø	1/6		4.4	5.5	15	SEE PANEL SCHEDULES	⟨10⟩			NEMA 3R	NO	
EF-5	EXHAUST FAN	115V-1Ø	1/4		5.8	7.3	15	SEE PANEL SCHEDULES	⟨10⟩			NEMA 3R	NO	
EF-6	EXHAUST FAN	115V-1Ø	1/4		5.8	7.3	15	SEE PANEL SCHEDULES	⟨10⟩			NEMA 3R	NO	
EF-7	EXHAUST FAN	115V-1Ø	1/10		3.0	3.8	15	SEE PANEL SCHEDULES	⟨10⟩			NEMA 3R	NO	
EF-8	EXHAUST FAN - ALTERNATE BID	115V-1Ø			1.5	1.9	15	SEE PANEL SCHEDULES	⟨10⟩			NEMA 3R	NO	
EF-9	EXHAUST FAN	115V-1Ø			104 WATTS	130 WATTS	15	SEE PANEL SCHEDULES	⟨10⟩			NEMA 3R	NO	
EF-10	EXHAUST FAN	115V-1Ø			104 WATTS	130 WATTS	15	SEE PANEL SCHEDULES	⟨10⟩			NEMA 3R	NO	
EF-11	EXHAUST FAN	115V-1Ø			104 WATTS	130 WATTS	15	SEE PANEL SCHEDULES	⟨10⟩			NEMA 3R	NO	
FHEF-1	FUME HOOD EXHAUST FAN	208V-1Ø	1/2		5.4	6.8	15	SEE PANEL SCHEDULES	30	2	15	NEMA 3R	NO	
UH-A	HOT WATER UNIT HEATER	115V-1Ø			-	3.9	15	SEE PANEL SCHEDULES	⟨7⟩			NEMA1	NO	
EUH-A	ELECTRIC UNIT HEATER	208V-3Ø		3.8	10.9	13.6	20	SEE PANEL SCHEDULES	⟨7⟩			NEMA1	NO	
EUH-B	ELECTRIC UNIT HEATER	277V-1Ø		5.0	18.1	22.6	30	SEE PANEL SCHEDULES	⟨7⟩			NEMA1	NO	
ECH-A	ELECTRIC CABINET HEATER	277V-1Ø		3.8	13.7	17.1	25	SEE PANEL SCHEDULES	⟨7⟩			NEMA1	NO	
ECH-B	ELECTRIC CABINET HEATER	277V-1Ø		5.0	18.1	22.6	30	SEE PANEL SCHEDULES	⟨7⟩			NEMA1	NO	
ECH-C	ELECTRIC CABINET HEATER	277V-1Ø		6.0	21.6	27.1	40	SEE PANEL SCHEDULES	⟨7⟩			NEMA1	NO	
WH-1	GAS WATER HEATER	120V-1Ø			5.0	6.3	15	SEE PANEL SCHEDULES	30	1	15	NEMA1	NO	
WH-2	GAS WATER HEATER	120V-1Ø			5.0	6.3	15	SEE PANEL SCHEDULES	30	1	15	NEMA1	NO	
WH-3	ELECTRIC WATER HEATER	460V-3Ø		13.5	16.2	20.3	25	SEE PANEL SCHEDULES	30	3	25	NEMA1	NO	
WH-4	ELECTRIC WATER HEATER	277V-1Ø		13.3	48.0	60.0	60	SEE PANEL SCHEDULES	100	1	60	NEMA1	NO	
WH-5	ELECTRIC WATER HEATER - ALTERNATE BID	277V-1Ø		5.5	19.8	24.8	30	SEE PANEL SCHEDULES	30	1	30	NEMA1	NO	
WH-6	ELECTRIC WATER HEATER - ALTERNATE BID	277V-1Ø		5.5	19.8	24.8	30	SEE PANEL SCHEDULES	30	1	30	NEMA1	NO	
HWR-1	HOT WATER RETURN PUMP	120V-1Ø			92 WATTS		15	SEE PANEL SCHEDULES	⟨10⟩			NEMA 1	NO	
HWR-2	HOT WATER RETURN PUMP	120V-1Ø			52 WATTS		15	SEE PANEL SCHEDULES	⟨10⟩			NEMA 1	NO	
CIVIL PLANS	SEWAGE LIFT STATION	460V-3Ø	TWO (2) 3 HP		(2) 4.8	(2) 6.0	20	SEE PANEL SCHEDULES	30	3	20	NEMA 3R	CONFIRM	⟨11⟩

NOTES:

1. READ ACROSS TO THE RIGHT FROM C/B TRIP TO DESIRED VOLTAGE CHARACTERISTICS AND NEXT GREATER DISTANCE THAN CIRCUIT IN QUESTION.
2. READ DOWN TO MINIMUM WIRE SIZE.
3. DISTANCES ARE TO THE CENTER OF CONCENTRATED LOAD SUCH AS CLASSROOM LIGHTING OR THE MIDPOINT OF DISTRIBUTED LOAD SUCH AS CORRIDOR LIGHTING.
4. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INCREASED IN SIZE PROPORTIONATELY PER N.E.C.

EQUIPMENT SCHEDULE KEY NOTES

⟨1⟩ DATA FROM SPECIFIED MANUFACTURER. REFER TO MECHANICAL DRAWINGS

⟨2⟩ QUANTITY AND SIZE OF POWER CONDUCTORS BASED ON DATA FROM SPECIFIED MANUFACTURER. PROVIDE GROUND WIRE IN ACCORDANCE WITH THE PROJECT GENERAL NOTES THIS SHEET.

⟨3⟩ WHERE A FUSE SIZE IS NOT ENTERED IN COLUMN TITLED "FUSE AMPS", THE DISCONNECT MAY BE UNFUSED.

⟨4⟩ EQUIPMENT FURNISHED AND INSTALLED UNDER OTHER SPECIFICATION DIVISIONS, WIRED AND CONNECTED UNDER DIVISION 16, UNLESS NOTED OTHERWISE. DISCONNECT SWITCHES FURNISHED UNDER DIVISION 15.

⟨5⟩ INDOOR UNIT FED VIA OUTDOOR CONDENSING UNIT. PROVIDE ALL WIRING AS REQUIRED TO MAKE A COMPLETE AND OPERATIONAL INSTALLATION.

⟨6⟩ PROVIDE DUCT SMOKE DETECTOR(S).

⟨7⟩ UNIT TO BE PROVIDED WITH INTEGRAL DISCONNECT SWITCH.

⟨8⟩ PROVIDE HARD WIRED 120V POWER FOR CONDENSATE PUMPS - 2#12 MC. CIRCUIT AS SHOWN OR TO THE NEAREST RECEPTACLE CIRCUIT SERVING THE AREA LOCATED.

⟨9⟩ REFER TO MECHANICAL SCHEDULES AND FLOOR PLANS FOR VAV BOX NUMBERS AND LOCATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER TO CONTROL TRANSFORMER FURNISHED WITH THE UNIT.

⟨10⟩ PROVIDE MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION.

⟨11⟩ LIFT STATION SHOWN WITH SINGLE POINT POWER CONNECTION TO LIFT STATION CONTROL PANEL. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS WITH THE SYSTEM SHOP DRAWINGS, AND PROVIDE ALL REQUIRED POWER, CIRCUIT BREAKERS, ALARM CIRCUIT, TELE/DATA, ETC. FOR A COMPLETE AND OPERATIONAL INSTALLATION.

EQUIPMENT SCHEDULE GENERAL NOTES

1. REFER TO CIVIL ENGINEERING, MECHANICAL, AND PLUMBING PLANS FOR EXACT LOCATIONS OF EQUIPMENT.

2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL 120V POWER WIRING AND CIRCUIT BREAKERS REQUIRED FOR THE INSTALLATION OF MECHANICAL EQUIPMENT, INCLUDING POWER FOR ALL MOTOR OPERATED DAMPER ACTUATORS, VAV BOXES, ETC. STARTERS AND POWER DISCONNECT SWITCHES SHALL BE BY THE MECHANICAL CONTRACTOR. REFER TO MECHANICAL SPECIFICATION SECTIONS AND COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXTENT OF WORK REQUIRED.

3. DUCT SMOKE DETECTORS SHALL BE PROVIDED AT ALL UNITS OVER 2000 CFM AND MOUNTED ON THE SUPPLY AND RETURN DUCT. DETECTORS SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. COORDINATE EXACT QUANTITY AND LOCATIONS WITH THE MECHANICAL CONTRACTOR AND MECHANICAL DRAWINGS.

F V H D P C . C O M

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