

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

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**Addendum No. 001**

**Subject: 2020 Classroom Modernizations**  
**SDP Contract Numbers: B-028 C of 19/20 & B-030 C of 19/20**

**Location: Overbrook Educational Center**  
**6722 Lansdowne Ave, Philadelphia PA 19151**

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**This Addendum, dated March 6, 2020, shall modify and become part of the Contract Documents for the work of this project. Any items not mentioned herein, or affected by, shall be performed strictly in accordance with the original documents.**

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**1. ADD THE ATTACHED LEAD SAFE CERTIFICATION ASSESSMENT REPORT (SCOPE OF WORK DETAIL) TO PART B-TECHNICAL SPECIFICATIONS FOR PAINT AND PLASTER REPAIRS ROOM.**

**LAYOUT DRAWINGS NOT AVAILABLE FOR THIS LOCATION**

**2. REVISIONS TO SPECIFICATIONS**

**A. GENERAL**

**CLARIFICATION** – Any/all scope dictated in the Asbestos Inspection Report specification and/or the Paint and Plaster specification (where applicable) shall utilize the proposed finishes as indicated on the Color Scheme Schedule within the Classroom Modernization drawings. All color selections and locations shall be approved by the architect.

**B. TECHNICAL SPECIFICATIONS**

**SECTION 87100 – DOOR HARDWARE**

1. REVISE Overbrook Educational Center Hardware to read as follows:

HARDWARE SET NO. OV-01

For use on Door Numbers:

1                      2A                      2C                      2D                      208                      210

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
	EA	ALL EXISTING	HARDWARE TO REMAIN		

NOTE:

EXISTING DOOR AND FRAME TO REMAIN  
 VERIFY EXISTING DOOR AND FRAME PREPS FOR COMPATIBILITY OF SPECIFIED HARDWARE  
 PRIOR TO ORDERING, NOTIFY ARCHITECT OF ANY REQUIRED CHANGES

HARDWARE SET NO. OV-02

For use on Door Numbers:

2

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	PANIC HARDWARE	98-L-2SI-17	626	VON
2	EA	PERMANENT LOCK CORE	KEYED TO EXISTING SYSTEM	626	C-R
2	EA	RIM CYLINDER	TO MATCH EXISTING PYRAMID SYSTEM	626	C-R
1	EA	SURFACE CLOSER	4111 EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

HARDWARE SET NO. OV-03

For use on Door Numbers:

1A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	98-L-F-2SI-17	626	VON
2	EA	PERMANENT LOCK CORE	KEYED TO EXISTING SYSTEM	626	C-R
2	EA	RIM CYLINDER	TO MATCH EXISTING PYRAMID SYSTEM	626	C-R
1	EA	SURFACE CLOSER	4111 EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

HARDWARE SET NO. OV-04

For use on Door Numbers:

1B                      1C

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	ND10S SPA	626	SCH
1	EA	OH STOP	90S	630	GLY
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET NO. OV-05

For use on Door Numbers:

2B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	VANDL ENTRANCE LOCK	ND92TD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

HARDWARE SET NO. OV-06

For use on Door Numbers:

32

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	VANDL CLASSROOM SEC	ND95JD06 SPA XN12-035	626	SCH
2	EA	PERMANENT LOCK CORE	KEYED TO EXISTING SYSTEM	626	C-R
1	EA	MOUNTING PLATE	12-2-CW 5 1/8" x 12"	630	DON
1	EA	CUSTOM LOCK STRIKE	IF REQUIRED BY EXISTING FRAME PREPS	626	ACC
1	EA	WALL STOP	WS406/407CCV	630	IVE

HARDWARE SET NO. OV-07

For use on Door Numbers:

1D

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	Door Cord	788-18 LESS WIRES	626	SCE
1	EA	ELEC PANIC HARDWARE	QEL-98-EO 24 VDC	626	VON
1	EA	PERMANENT LOCK CORE	KEYED TO EXISTING SYSTEM	626	C-R
1	EA	RIM CYLINDER	TO MATCH EXISTING PYRAMID SYSTEM	626	C-R
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	POWER SUPPLY	PS902 900-2RS KL900 120/240 VAC	LGR	SCE
	EA	BALANCE OF	EXISTING HARDWARE TO REMAIN		

DOOR OPERATION: -

DOOR NORMALLY CLOSED AND LOCKED

ENTRY BY PUSH-BUTTON /DOOR BELL OR REMOTE RELEASE

FREE EGRESS FROM INSIDE AT ALL TIMES

NOTE:

EXISTING DOOR AND FRAME TO REMAIN

VERIFY EXISTING DOOR AND FRAME PREPS FOR COMPATIBILITY OF SPECIFIED HARDWARE PRIOR TO ORDERING NOTIFY ARCHITECT OF ANY REQUIRED CHANGES

HARDWARE SET NO. OV-08

For use on Door Numbers:

7A                      7B

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	AUTO FLUSH BOLT	FB41T	630	IVE
1	EA	VANDL CLASSROOM SEC	ND95JDCO6 SPA XN12-035	626	SCH
1	EA	PERMANENT LOCK CORE	KEYED TO EXISTING SYSTEM	626	C-R
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	MOUNTING BRACKET	MB	689	IVE
1	EA	SURFACE CLOSER	4111 EDA	689	LCN
1	EA	SURFACE CLOSER	4111 HCUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	FS495	626	IVE

**SECTION 095113 - ACOUSTICAL PANEL CEILINGS**

1. Replace spec in its entirety to include ACT2, to be used in addition with original specified ACT at Overbrook Elementary School.

**SPECIFICATION 262416 – PANELBOARDS**

1. ADD specification in its entirety.

## **SPECIFICATION 275313 – WIRELESS CLOCK SYSTEM**

1. REVISE 2.2.H. to read “H. Basis of Design: Sapling Inc. SMA ~~2000~~ **3000** Series Master Clock (V8.1), Wireless Clock System. [Addendum No. 1].”

## **3. DRAWING REVISIONS**

### **A. COVER SHEETS**

#### **DRAWING CS.1 – COVER SHEET**

1. ADD deed address to read “6730-38 LANSDOWNE AVENUE, PHILADELPHIA, PA 19151-3625.”

#### **DRAWING CS.2 – GENERAL INFORMATION**

1. REVISE Gypsum Wall Board Location Schedule to read at Cementitious Backer Unit “AT WALLS SCHEDULED TO RECEIVE CERAMIC TILE.”

### **B. ARCHITECTURAL DRAWINGS**

#### **DRAWING D1.1 – OVERALL FIRST FLOOR DEMOLITION PLAN**

1. ADD demolition note 5E as indicated on the drawings.
2. ADD demolition note 7A as indicated on the drawings.
3. REVISE plan 1/D1.1 to include additional demolition scope as indicated on the drawings.
4. ADD Staff Break Rm 5 to scope.
5. ADD existing room tag “Lobby-1D” and “Office-1E”.
6. ADD existing mini-split to receive new work in Lobby-1D and Special Education Classroom-2.
7. REVISED demolition note 9N as indicated on drawings.

#### **DRAWING D1.2 – OVERALL SECOND FLOOR DEMOLITION PLAN**

1. ADD existing mini-split to receive new work in 1<sup>st</sup> Grade Classroom-23.
2. REVISED demolition note 9N as indicated on drawings.

#### **DRAWING D1.3 – OVERALL THIRD FLOOR DEMOLITION PLAN**

1. REVISED demolition note 9N as indicated on drawings.

#### **DRAWING A1.1 – OVERALL FIRST FLOOR PLAN**

1. REVISE plan 1/A1.1 to remove Special Education Office #3 and relocate to/replace former Work Room #6 as indicated on the drawings.
2. REVISE “Cubbie Alcove-1A” to read “Alcove-1A”.
3. REMOVE “box-out” stud walls in Alcove-1A.

#### **DRAWING A2.1 – OVERALL FIRST FLOOR REFLECTED CEILING PLAN**

1. REVISE RCP 1/A2.1 to remove Special Education Office #3 and associated revisions as indicated on the drawings.
2. REVISE RCP 1/A2.1 to add a new ceiling to Closet-2A as indicated on the drawings.
3. REVISE 2x4 ceiling grid and tile system to be 2x2 ceiling grid and tile system in rooms 1, 1A, 2, 4, and 7.
4. ADD GWB bulkheads over new cubbie locations in Small Group Instruction-7 and adjoining corridors as indicated on drawings.

#### **DRAWING A6.1 – ROOM FINISH & SIGNAGE SCHEDULE**

1. REVISE Room Finish Schedule – ROOM 208 and 210 – Ceiling Finish to read as: “ACT/PNT”.

2. REVISE Room Finish Schedule – ROOM 1, 1A, 7 – Ceiling Finish to read as: “ACT2/PNT”.
3. REVISE Room Finish Schedule – ROOM 2 – Ceiling Finish to read as: “ACT2”.
4. REVISE Room Finish Schedule – ROOM 2A – Base Finish to read as: “RB/ETR” and Ceiling Finish to read as: “ACT”.
5. REVISE Room Finish Schedule – ROOM 5 – Wall Finish to read as: “PNT/ETR”.
6. REVISE Room Finish Schedule – ROOM 1A Name to read as: “Alcove”.
7. REVISE Room Finish Schedule – ROOM 6 Name to read as: “Special Education Office”.
8. REVISE Room Finish Schedule – ROOM 7 Name to read as: “Small Group Instruction”.
9. REVISE Room Finish Schedule column “COLOR SCHEME” at ROOMS 32, 33, 34 to correspond to Color Scheme “C”.
10. REVISE Room Finish Schedule column “COLOR SCHEME” at ROOMS 208 to correspond to Color Scheme “D”.
11. REVISE Color Scheme Schedule – Color Scheme A to read as: “COLOR SCHEME A – KINDERGARTEN”.
  - a. REVISE item no. 6 to read as: “6. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 51947 BASIL GREEN”
  - b. ADD item no. 8 to read as: “8. VINYL BASE: JOHNSONITE, NO. 469 MYSTIFY”.
12. REVISE Color Scheme Schedule – Color Scheme B to read as: “COLOR SCHEME B – FIRST GRADE AND SPECIAL EDUCATION”.
  - a. REVISE item no. 3 to read as: “3. ACCENT PAINT 'B' TEACHING WALL: SHERWIN WILLIAMS, NO. SW6765 SPA”
  - b. REVISE item no. 5 to read as: “5. VINYL COMPOSITION TILE, ACCENT '1': ARMSTRONG, NO. 51927 FIELD GRAY”
  - c. REVISE item no. 6 to read as: “6. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 57509 LEMON LICK”
  - d. ADD item no. 8 to read as: “8. VINYL BASE: JOHNSONITE, NO. 469 MYSTIFY”.
13. REVISED Color Scheme Schedule – Color Scheme C to read as: “COLOR SCHEME C – SECOND GRADE”.
  - a. ADD Color Scheme Information for Color Scheme C.
14. REVISED Color Scheme Schedule – Color Scheme D to read as: “COLOR SCHEME D – THIRD GRADE”.
  - a. ADD Color Scheme Information for Color Scheme D.
15. REVISED Color Scheme Schedule – General Notes Item No. 7 to read as: “NOT USED”.
16. ADD to COLOR SCHEME SCHEDULE, General Notes: “G. \*\*Rooms not indicated with a color scheme shall receive finishes to match existing SDP color scheme. Contractor shall coordinate with owner.”

#### **DRAWING A6.2 – DOOR SCHEDULE**

1. DELETE door-2B from Door Schedule in its entirety.

### **C. INTERIOR DRAWINGS**

#### **DRAWING I4.2 – LARGE SCALE LAYOUTS & FLOOR PATTERN PLANS – ANNEX FIRST FLOOR**

1. REVISE detail 1/I4.2 ANNEX BUILDING – FIRST FLOOR LARGE SCALE LAYOUTS
  - a. KINDERGARTEN – ROOM 1 – Revise overall layout including relocation of visual display boards.
  - b. SMALL GROUP INSTRUCTION – ROOM 7 –
    - i. Added corner guards, revise visual display board layout, relocate cubbies as shown.
    - ii. Revised Tack Board on Wall Elevation “N” to 719.
  - c. STAFF BREAK – ROOM 5 – Added copier location.

- d. SPECIAL EDUCATION CLASSROOM – ROOM 2 – Revised Tack Board on Wall Elevation “J” to 719.
2. REVISE detail 3/I4.2 ANNEX BUILDING – FIRST FLOOR PATTERN PLANS
  - a. KINDERGARTEN ROOM 1 AND SMALL GROUP INSTRUCTION ROOM 7 – Revise overall floor pattern plans due to floor plan layout revision.
3. ADD “704 MARKERBOARD W/ ALUMINUM FRAME” to I4.2 – GENERAL CASEWORK AND EQUIPMENT SCHEDULE.
4. ADD “719 TACK BOARD W/ ALUMINUM FRAME” to I4.2 – GENERAL CASEWORK AND EQUIPMENT SCHEDULE.

**DRAWING I4.3 – LARGE SCALE LAYOUTS & FLOOR PATTERN PLANS – ANNEX SECOND FLOOR**

1. REVISE detail 1/I4.3, FIRST GRADE – ROOMS 22 & 23 – Revise accent wall location, smart board locations and visual display boards.
2. ADD “702 MARKERBOARD W/ ALUMINUM FRAME” to I4.3 – GENERAL CASEWORK AND EQUIPMENT SCHEDULE.
3. REVISE detail 2/I4.3, FIRST GRADE – ROOMS 22 & 23 – Revise overall floor pattern plans due to teaching wall layout revision.

**DRAWING I4.4 – LARGE SCALE LAYOUTS & FLOOR PATTERN PLANS – ANNEX THIRD FLOOR**

1. REVISE detail 1/I4.4, SECOND GRADE – ROOMS 32 & 33 – Revise accent wall location, smart board locations and visual display boards.
2. REVISE detail 2/I4.4, SECOND GRADE – ROOMS 32 & 33 – Revise overall floor pattern plans due to teaching wall layout revision.

**DRAWING I4.5 – INTERIOR ELEVATIONS & DETAILS – ANNEX BUILDING**

1. REVISE detail B/I4.5 PRIMARY TEACHING WALL LAYOUT 'B' – TYPICAL – Revise to show smart board relocation per the floor plans. Contractor shall reference the note and floor plans for actual sizing of boards, typical.
2. REVISE detail C/I4.5 SECONDARY TEACHING WALL – TYPICAL – Revise to show visual display board size adjustment/relocation of smart board per the floor plans. Contractor shall reference the note and floor plans for actual sizing of boards, typical. Also noted existing mechanical equipment on elevation for contractor coordination for visual display boards.
3. REVISE detail L/I4.5 DISPLAY WALL – KINDERGARTEN 1 – Revise to show visual display board revisions per the floor plans.
4. REVISED detail K/I4.5, to read as: “ALCOVE – Kindergarten 1”.
5. REVISED detail P/I4.5, to read as: “CUBBIES – SGI 7”.
6. REVISE detail M/I4.5 TEACHING WALL – KINDERGARTEN 1 – Revise to show visual display board revisions per the floor plans.
7. REVISED detail J/I4.5, DISPLAY WALL – SPECIAL EDUCATION 2 – Revised Tack Board to 719 and added note to read as: “Coordinate visual display w/ existing mechanical equipment. VIF all locations prior to ordering, typical. – See floor plans for varying locations.
8. REVISED detail N/I4.5, DISPLAY WALL – SGI 7 – Revised Tack Board to 719 and added note to read as: “Coordinate visual display w/ existing mechanical equipment. VIF all locations prior to ordering, typical. – See floor plans for varying locations.

**D. PLUMBING DRAWINGS**

**DRAWING MP0.1 - PLUMBING GENERAL NOTES, SYMBOLS & ABBREVIATIONS**

1. REVISE sheet number.
2. ADD Sprinkler Head symbol to Plumbing Symbols Legend as indicated on the drawings.
3. ADD fin tube radiator schedule as indicated on the drawings.
4. REVISE plumbing drawing list.
5. REVISE plumbing fixture schedule as indicated on the drawings.
6. REVISE plumbing fixture details 1/MP0.1 and 2/MP0.2 as indicated on the drawings.

#### **DRAWING MPD1.1 - PLUMBING FIRST FLOOR DEMOLITION PLAN**

1. REVISE sheet number.
2. ADD Demolition Keyed Notes and floor plan as indicated on the drawings.
3. REVISE scope as indicated on the drawings.

#### **DRAWING MPD1.2 - PLUMBING SECOND FLOOR DEMOLITION PLAN**

1. REVISE sheet number.
2. ADD Demolition Key Note #2 and associated locations as indicated on the drawings.
3. ADD Demolition Keyed Notes as indicated on the drawings.
4. REVISE scope as indicated on the drawings.

#### **DRAWING MPD1.3 - PLUMBING THIRD FLOOR DEMOLITION PLAN**

1. REVISE sheet number.
2. ADD Demolition Key Note #2 and associated locations as indicated on the drawings.
3. ADD Demolition Keyed Notes as indicated on the drawings.
4. REVISE scope as indicated on the drawings.

#### **DRAWING MP1.1 - PLUMBING FIRST FLOOR NEW WORK PLAN**

1. REVISE sheet number.
2. ADD Sheet Key Notes as indicated on the drawings.
3. REVISE scope as indicated on the drawings.

#### **DRAWING MP1.2 - PLUMBING SECOND FLOOR NEW WORK PLAN**

1. REVISE sheet number.
2. ADD Sheet Key Notes as indicated on the drawings.
3. REVISE scope as indicated on the drawings.

#### **DRAWING MP1.3 - PLUMBING THIRD FLOOR NEW WORK PLAN**

1. REVISE sheet number.
2. ADD Sheet Key Notes as indicated on the drawings.
3. REVISE scope as indicated on the drawings.

### **E. ELECTRICAL DRAWINGS**

#### **DRAWING E0.1 – ELECTRICAL GENERAL NOTES, SYMBOLS & ABBREVIATIONS**

1. REVISE room controller basis-of-design to read “GREENGATE – MODEL #RC3D-PL.”
2. ADD Type H to lighting fixture schedule.

#### **DRAWING ED1.1 - ELECTRICAL FIRST FLOOR DEMOLITION PLAN**

1. ADD Keyed Note #10 to read “DISCONNECT AND REMOVE EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED CONTROLS, CONDIT AND WIRING BACK TO SOURCE OF SUPPLY. REFER TO PLUMBING DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.”



2. CLARIFY general note in larger font to read "ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0" OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM."
3. ADD existing to remain receptacles in Staff Break #5.

#### **DRAWING ED1-2 - ELECTRICAL SECOND FLOOR DEMOLITION PLAN**

1. DELETE Key Note #7 from 3 existing data outlets as indicated on the drawings.
2. DELETE Key Note #3 from ceiling mounted speaker as indicated on the drawings.
3. CLARIFY general note in larger font to read "ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0" OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM."

#### **DRAWING ED1-3 - ELECTRICAL THIRD FLOOR DEMOLITION PLAN**

1. DELETE Key Note #7 from 1 existing data outlet as indicated on the drawings.
2. CLARIFY general note in larger font to read "ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0" OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM."

#### **DRAWING E1-1 - ELECTRICAL FIRST FLOOR LIGHTING PLAN**

1. REVISE lighting layout and zones as indicated on the drawings.

#### **DRAWING E1-2 - ELECTRICAL SECOND FLOOR LIGHTING PLAN**

1. REVISE lighting zones as indicated on the drawings.
2. REVISE lighting plan per new 2x2 grid.
3. ADD downlight fixtures to bulkheads.

#### **DRAWING E1-3 - ELECTRICAL THIRD FLOOR LIGHTING PLAN**

1. REVISE lighting zones as indicated on the drawings.

#### **DRAWING E2-1 - ELECTRICAL FIRST FLOOR POWER AND TECHNOLOGY PLAN**

1. ADD general sheet note #6 to read "ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OFF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS."
2. REVISE power layout in Kindergarten Classroom 1 per new room layout.
3. DELETE new data outlet from beside laptop charging receptacle.
4. REVISE location of Panel P1 per new wall configuration.
5. ADD relocated wall mounted speaker in Small Group Instruction 7.
6. DELETE GFI receptacle for water cooler.
7. ADD receptacle for laptop charging in Small Group Instruction 7.
8. REVISE receptacle locations per new smart board layout in Small Group Instruction 7.
9. ADD existing to remain receptacles in Staff Break 5.
10. ADD new data outlet in Staff Break 5 for relocated copier.
11. ADD junction box for connection to relocated hydration station.
12. ADD keyed sheet note 13 to specify scope of work for electrical connection to hydration station.

#### **DRAWING E2-2 - ELECTRICAL SECOND FLOOR POWER AND TECHNOLOGY PLAN**

1. ADD general sheet note #6 to read "ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OFF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS."
2. REVISE receptacle and data layouts per the revised smart board locations.

#### **DRAWING E2-3 - ELECTRICAL THIRD FLOOR POWER AND TECHNOLOGY PLAN**

1. ADD general sheet note #6 to read "ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OFF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS."
2. REVISE receptacle and data layouts per the revised smart board locations.

#### **DRAWING E6-1 - ELECTRICAL PANEL SCHEDULES**

1. REVISE circuit descriptions per the revised power and lighting plans as indicated.

#### **DRAWING E7.1 - ELECTRICAL DETAILS**

1. REVISE 3/E7.1 Typical Classroom Lighting Controller diagram as indicated on the drawings.

### **4.BIDDER QUESTIONS SUBMITTED TO DATE & RESPONSES ARE AS FOLLOWS:**

1. On the website, each school has an EC and GC bid. Who will be responsible for the HVAC and Plumbing work that is included?

**Answer:** Plumbing and HVAC work are the responsibility of the GC.

2. Specifications call for Sapling Master 2000 Clock. Sapling 3000 is normally the school district standard. Manufacturer comment "a 3000 can set up bell schedules where a 2000 cannot. Philly schools does not have intercom systems, so they have no way of ringing bells without the 3000." Should the specs be revised to install a 3000?

**Answer:** Specification 275313 has been revised in this addendum. Refer to specification addendum section, above.

3. The specifications do not contain a specification for the electrical panels. Can you provide?

**Answer:** The specification has been added as part of this addendum.

4. Question does not apply Overbrook Educational Center.

5. Question does not apply Overbrook Educational Center.

6. Drawing D1.1, Demolition Note 9A states "*existing unit ventilator and/or radiator, radiator cover and all associated piping and components to be removed (as applicable) and refinished with electrostatic paint and reinstalled as scheduled. Clean unit ventilator and/or radiator and all associated components prior to reinstallation of cover.*" Is this the responsibility of the GC?

**Answer:** Yes, the refinishing and reinstallation of the unit ventilator/radiator covers in the Annex are the responsibility of the GC. The unit ventilator covers and pipe covers in the main building are new and shall be protected during the work and cleaned prior to occupancy.

7. Question does not apply to Overbrook Educational Center.
8. Question does not apply to Overbrook Educational Center.
9. Drawings don't show S.S. Corner Guard locations. Please Clarify?

**Answer:** Per Specification 102600, Section 2.3.A.7, we have indicated corner guards to be received at three schools; John B. Kelly Elementary per drawings, Overbrook Educational Center per drawings, and Fox Chase Elementary per drawings.

## **ATTACHMENTS**

### **SPECIFICATIONS**

SPECIFICATION 095113      ACOUSTICAL PANEL CEILINGS  
SPECIFICATION 262416      PANELBOARDS

### **DRAWINGS**

DRAWING D1.1      OVERALL FIRST FLOOR DEMOLITION PLAN  
DRAWING D1.2      OVERALL SECOND FLOOR DEMOLITION PLAN  
DRAWING D1.3      OVERALL THIRD FLOOR DEMOLITION PLAN

DRAWING A1.1      OVERALL FIRST FLOOR PLAN  
DRAWING A2.1      OVERALL FIRST FLOOR REFLECTED CEILING PLAN  
DRAWING A6.1      ROOM FINISH AND SIGNAGE SCHEDULE

DRAWING I4.2      LARGE SCALE LAYOUTS & FLOOR PATTERN PLANS – ANNEX FIRST FLOOR  
DRAWING I4.3      LARGE SCALE LAYOUTS & FLOOR PATTERN PLANS – ANNEX SECOND FLOOR  
DRAWING I4.4      LARGE SCALE LAYOUTS & FLOOR PATTERN PLANS – ANNEX THIRD FLOOR  
DRAWING I4.5      INTERIOR ELEVATIONS & DETAILS – ANNEX BUILDING

DRAWING MP0.1      PLUMBING GENERAL NOTES, SYMBOLS & ABBREVIATIONS  
DRAWING MPD1.1      PLUMBING FIRST FLOOR DEMOLITION PLAN  
DRAWING MPD1.2      PLUMBING SECOND FLOOR DEMOLITION PLAN  
DRAWING MPD1.3      PLUMBING SECOND FLOOR DEMOLITION PLAN  
DRAWING MP1.1      PLUMBING FIRST FLOOR NEW WORK PLAN  
DRAWING MP1.2      PLUMBING SECOND FLOOR NEW WORK PLAN  
DRAWING MP1.3      PLUMBING THIRD FLOOR NEW WORK PLAN

DRAWING E0.1      ELECTRICAL GENERAL NOTES, SYMBOLS & ABBREVIATIONS  
DRAWING ED1.1      ELECTRICAL FIRST FLOOR DEMOLITION PLAN  
DRAWING ED1.2      ELECTRICAL SECOND FLOOR DEMOLITION PLAN  
DRAWING ED1.3      ELECTRICAL THIRD FLOOR DEMOLITION PLAN

DRAWING E1.1	ELECTRICAL FIRST FLOOR LIGHTING PLAN
DRAWING E1.2	ELECTRICAL SECOND FLOOR LIGHTING PLAN
DRAWING E1.3	ELECTRICAL THIRD FLOOR LIGHTING PLAN
DRAWING E2.1	ELECTRICAL FIRST FLOOR POWER AND TECHNOLOGY PLAN
DRAWING E2.2	ELECTRICAL SECOND FLOOR POWER AND TECHNOLOGY PLAN
DRAWING E2.3	ELECTRICAL THIRD FLOOR POWER AND TECHNOLOGY PLAN
DRAWING E6.1	ELECTRICAL PANEL SCHEDULES
DRAWING E7.1	ELECTRICAL DETAILS

LEAD SAFE CERTIFICATION ASSESSMENT REPORTS (SCOPE OF WORK DETAIL)

**END OF ADDENDUM #001**

**SECTION 095113 - ACOUSTICAL PANEL CEILINGS [Addendum No. 1]**

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

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

**1.2 SUMMARY**

- A. Section Includes:
  - 1. Mineral-based, factory-painted acoustical ceiling panels.

**1.3 PREINSTALLATION MEETINGS**

- A. Preinstallation Conference: Conduct conference at Project site.

**1.4 ACTION SUBMITTALS**

- A. Product Data: For each type of product.

**1.5 INFORMATIONAL SUBMITTALS**

- A. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
  - 1. Suspended ceiling components.
  - 2. Structural members to which suspension systems will be attached.
  - 3. Size and location of initial access modules for acoustical panels.
  - 4. Items penetrating finished ceiling including, but not limited to, the following:
    - a. Lighting fixtures.
    - b. Air outlets and inlets.
    - c. Speakers.
    - d. Sprinklers.
    - e. Access panels.
  - 5. Perimeter moldings.
- B. Qualification Data: For testing agency.
- C. Product Test Reports: For each acoustical panel ceiling, for tests performed by a qualified testing agency.
- D. Evaluation Reports: For each acoustical panel ceiling suspension system and anchor and fastener type, from ICC-ES.
- E. Field quality-control reports.
- F. Samples for Initial Selection: 12-inch-square Samples of specialty metal ceilings and 12-inch-long Samples of associated suspension system grid; provide full range of available colors and patterns.

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### 1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For finishes to include in maintenance manuals.

### 1.7 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Acoustical Panels: Full-size panels equal to 2 percent of quantity installed, in each pattern and color provided.

### 1.8 QUALITY ASSURANCE

- A. Testing Agency Qualifications: Qualified according to NVLAP for testing indicated.

### 1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver acoustical panels, suspension-system components, and accessories to Project site in original, unopened packages and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.
- B. Before installing acoustical panels, permit them to reach room temperature and stabilized moisture content.
- C. Handle acoustical panels carefully to avoid chipping edges or damaging units in any way.

### 1.10 FIELD CONDITIONS

- A. Environmental Limitations: Do not install acoustical panel or FRP ceilings until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Acoustical ceiling shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
- B. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
  - 1. Flame-Spread Index: Comply with ASTM E 1264 for Class A materials.
  - 2. Smoke-Developed Index: 50 or less.
- C. Fire-Resistance Ratings: Comply with ASTM E 119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
  - 1. Indicate design designations from UL's "Fire Resistance Directory" or from the listings of another qualified testing agency.

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### 2.2 ACOUSTICAL PANELS, GENERAL

- A. Low-Emitting Materials: Acoustical panel ceilings shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
- B. Source Limitations: Obtain each type of acoustical ceiling panel and supporting suspension system from single source from single manufacturer.
- C. Acoustical Panel Standard: Provide manufacturer's standard panels of configuration indicated that comply with ASTM E 1264 classifications as designated by types, patterns, acoustical ratings, and light reflectance unless otherwise indicated.
- D. Acoustical Panel Colors and Patterns: Match appearance characteristics indicated for each product type.
  - 1. Where appearance characteristics of acoustical panels are indicated by referencing pattern designations in ASTM E 1264 and not manufacturers' proprietary product designations, provide products selected by Architect from each manufacturer's full range that comply with requirements indicated for type, pattern, color, light reflectance, acoustical performance, edge detail, and size.

### 2.3 ACOUSTICAL PANELS – TYPE (ACT)

- A. Manufacturers and Products: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include the following:
  - 1. Armstrong World Industries, Inc.; Fine Fissured High Acoustics No.1714.
  - 2. USG Interiors, Inc.; Radar ClimaPlus High-NRC, No. 22441.
- B. Classification: Provide panels complying with ASTM E 1264 for type, form, and pattern as follows:
  - 1. Type and Form: Type III, mineral base with painted finish.
  - 2. Color: White.
  - 3. LR: 0.84.
  - 4. NRC: Not less than 0.70.
  - 5. CAC: Not less than 35.
  - 6. Edge Detail: Square.
  - 7. Thickness: 3/4 inch.
  - 8. Modular Size: Nominal 24 by 48 inches.
- C. Broad Spectrum Antimicrobial Fungicide and Bactericide Treatment: Provide acoustical panels treated with manufacturer's standard antimicrobial formulation that inhibits fungus, mold, mildew, and gram-positive and gram-negative bacteria and showing no mold, mildew, or bacterial growth when tested according to ASTM D 3273 and evaluated according to ASTM D 3274 or ASTM G 21.
- D. Suspension System Type: Applications and types as indicated on Drawings and Paragraph 2.6, B.

### 2.4 ACOUSTICAL PANELS – TYPE (ACT2)

- A. Manufacturers and Products: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include the following:
  - 1. Armstrong World Industries, Inc.; Fine Fissured High Acoustics No.1810.
  - 2. USG Interiors, Inc.; Radar ClimaPlus High-NRC, No. 22441.

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- B. Classification: Provide panels complying with ASTM E 1264 for type, form, and pattern as follows:
1. Type and Form: Type III, mineral base with painted finish.
  2. Color: White.
  3. LR: 0.84.
  4. NRC: Not less than 0.70.
  5. CAC: Not less than 35.
  6. Edge Detail: Square.
  7. Thickness: 3/4 inch.
  8. Modular Size: Nominal 24 by 24 inches.
  9. Location:
    - a. Overbrook Educational Center per drawings.
- C. Broad Spectrum Antimicrobial Fungicide and Bactericide Treatment: Provide acoustical panels treated with manufacturer's standard antimicrobial formulation that inhibits fungus, mold, mildew, and gram-positive and gram-negative bacteria and showing no mold, mildew, or bacterial growth when tested according to ASTM D 3273 and evaluated according to ASTM D 3274 or ASTM G 21.
- D. Suspension System Type: Applications and types as indicated on Drawings and Paragraph 2.6, B.

### 2.5 METAL SUSPENSION SYSTEMS, GENERAL

- A. Metal Suspension-System Standard: Provide manufacturer's standard direct-hung metal suspension systems of types, structural classifications, and finishes indicated that comply with applicable requirements in ASTM C 635.
1. High-Humidity Finish: Comply with ASTM C 635 requirements for "Coating Classification for Severe Environment Performance" where high-humidity finishes are indicated.
- B. Wire Hangers, Braces, and Ties: Provide the following wire types, based on Project requirements:
1. Zinc-Coated, Carbon-Steel Wire: ASTM A 641, Class 1 zinc coating, soft temper.
    - a. Hanger wire shall be 12 gauge/.105 (Diameter Range: .105-.107); Carbon: C1006; Length: 12 feet; Tensile: 54/62,000 KSI; Breaking Load Minimum: 475 pounds; Breaking Load Maximum: 540 pounds; Safe Load Maximum: 275 pounds; Finish: Hot Dip Galvanized; Galvanize Coating: Class I, in accordance with ASTM-641/A.
  2. Stainless-Steel Wire: ASTM A 580, Type 304, nonmagnetic.
    - a. 1/16" air craft cable shall have a minimum breaking strength of 275 pounds.
  3. Nickel-Copper-Alloy Wire: ASTM B 164, nickel-copper-alloy UNS No. N04400.
  4. Size: Select wire diameter so its stress at three times hanger design load (ASTM C 635/C, Table 1, "Direct Hung") will be less than yield stress of wire, but provide not less than 0.106-inch-diameter wire.
- C. Hanger Rods: Mild steel, zinc coated or protected with rust-inhibitive paint.
- D. Angle Hangers: Angles with legs not less than 7/8 inch wide; formed with 0.04-inch-thick, galvanized-steel sheet complying with ASTM A 653, G90 coating designation; with bolted connections and 5/16-inch diameter bolts.
- E. Hold-Down Clips: Provide for all air lock and security applications, including vestibules, restrooms and locker rooms, where occurs; provide manufacturer's standard hold-down clips spaced 24 inches o.c. on all cross tees.



2.6 METAL SUSPENSION SYSTEM

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  - 1. Armstrong World Industries, Inc.
  - 2. USG Interiors, Inc.; Subsidiary of USG Corporation.
- B. Wide-Face, Capped, Double-Web, Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet; prepainted, electrolytically-zinc-coated, or hot-dip galvanized according to ASTM A 653, not less than G30 (Z90) coating designation; with prefinished 15/16-inch-wide metal caps on flanges.
  - 1. Structural Classification: Intermediate duty system.
  - 2. End Condition of Cross Runners: Butt-edge type.
  - 3. Face Design: Flat, flush.
  - 4. Cap Material: Cold-rolled steel.
  - 5. Cap Finish: Painted white.

2.7 METAL EDGE MOLDINGS AND TRIM

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  - 1. Armstrong World Industries, Inc.
  - 2. USG Interiors, Inc.; Subsidiary of USG Corporation.
- B. Extruded-Aluminum Edge Moldings and Trim: Where indicated, provide manufacturer's extruded-aluminum edge moldings and trim of profile indicated or referenced by manufacturer's designations, including splice plates, corner pieces, and attachment and other clips, complying with seismic design requirements and the following:
  - 1. Aluminum Alloy: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with not less than the strength and durability properties of aluminum extrusions complying with ASTM B 221 for Alloy and Temper 6063-T5.
  - 2. Baked-Enamel or Powder-Coat Finish: Minimum dry film thickness of 1.5 mils. Comply with ASTM C 635 and coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, including structural framing to which acoustical panel ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and with requirements for installation tolerances and other conditions affecting performance of acoustical panel ceilings.
- B. Examine acoustical panels before installation. Reject acoustical panels that are wet, moisture damaged, or mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Measure each ceiling area and establish layout of acoustical panels to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width panels at borders, and comply with layout shown on reflected ceiling plans.

3.3 INSTALLATION

- A. General: Install acoustical panel ceilings to comply with ASTM C 636 and seismic design requirements indicated, according to manufacturer's written instructions and CISCA's "Ceiling Systems Handbook."
  - 1. Fire-Rated Assembly: If indicated, install fire-rated ceiling systems according to tested fire-rated design.
- B. Suspend ceiling hangers from building's structural members and as follows:
  - 1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
  - 2. Splay hangers only where required and, if permitted with fire-resistance-rated ceilings, to miss obstructions; offset resulting horizontal forces by bracing, counter-splaying, or other equally effective means.
  - 3. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension-system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices.
  - 4. Secure wire hangers to ceiling-suspension members and to supports above with a minimum of three tight turns. Connect hangers directly either to structures or to inserts, eye screws, or other devices that are secure and appropriate for substrate and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.
  - 5. Secure flat, angle, channel, and rod hangers to structure, including intermediate framing members, by attaching to inserts, eye screws, or other devices that are secure and appropriate for both the structure to which hangers are attached and the type of hanger involved. Install hangers in a manner that will not cause them to deteriorate or fail due to age, corrosion, or elevated temperatures.
  - 6. Do not support ceilings directly from permanent metal forms or floor deck. Fasten hangers to cast-in-place hanger inserts, post-installed mechanical or adhesive anchors, or power-actuated fasteners that extend through forms into concrete.
  - 7. When steel framing does not permit installation of hanger wires at spacing required, install carrying channels or other supplemental support for attachment of hanger wires.
  - 8. Do not attach hangers to steel deck tabs or any other part of steel deck. Attach hangers to structural members only.
  - 9. Space hangers not more than 48 inches o.c. along each member supported directly from hangers unless otherwise indicated; provide hangers not more than 8 inches from ends of each member.
  - 10. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards and publications.
- C. Ceiling Clouds: For ceiling clouds and similar conditions, wires and other suspension components shall be installed as inconspicuously as possible, using minimum quantity of components and at the greatest distance from the perimeter as possible. Paint all suspension members to match color of painted systems and equipment above ceiling plane.
  - 1. Architect shall reject Work not meeting the aesthetic and performance requirements, in which the Installer shall reinstall unsatisfactory components.
- D. Secure bracing wires to ceiling suspension members and to supports with a minimum of four tight turns. Suspend bracing from building's structural members as required for hangers,

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without attaching to permanent metal forms, steel deck, or steel deck tabs. Fasten bracing wires into concrete with cast-in-place or post-installed anchors.

- E. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.
  - 1. Apply acoustical sealant in a continuous ribbon concealed on back of vertical legs of moldings before they are installed.
  - 2. Screw attach moldings to substrate at intervals not more than 16 inches o.c. and not more than 3 inches from ends, leveling with ceiling suspension system to a tolerance of 1/8 inch in 12 feet. Miter corners accurately and connect securely.
  - 3. Do not use exposed fasteners, including pop rivets, on moldings and trim.
- F. Install suspension-system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.
- G. Install acoustical panels with undamaged edges and fit accurately into suspension-system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.
  - 1. Arrange directionally patterned acoustical panels as indicated on Drawings.
  - 2. For square-edged panels, install panels with edges fully hidden from view by flanges of suspension-system runners and moldings.
  - 3. For reveal-edged panels on suspension-system runners, install panels with bottom of reveal in firm contact with top surface of runner flanges.
  - 4. For reveal-edged panels on suspension-system members with box-shaped flanges, install panels with reveal surfaces in firm contact with suspension-system surfaces and panel faces flush with bottom face of runners.
  - 5. Paint cut edges of panel remaining exposed after installation; precisely match color of exposed panel surfaces using coating furnished or recommended in writing for this purpose by acoustical panel manufacturer.
  - 6. Install hold-down clips for all air lock applications, including vestibules, and in areas required by authorities having jurisdiction, and for fire-resistance ratings; space as recommended by panel manufacturer's written instructions unless otherwise indicated.
  - 7. Protect lighting fixtures and air ducts to comply with requirements indicated for fire-resistance-rated assembly.

### 3.4 CLEANING

- A. Clean exposed surfaces of acoustical panel ceilings, including trim, edge moldings, and suspension-system members. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage. Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION 095113

**SECTION 262416 – PANELBOARDS [ Addendum No. 1]**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
  - 1. Lighting and appliance branch-circuit panelboards.

1.3 DEFINITIONS

- A. ATS: Acceptance testing specification.
- B. GFCI: Ground-fault circuit interrupter.
- C. GFEP: Ground-fault equipment protection.
- D. MCCB: Molded-case circuit breaker.
- E. VPR: Voltage protection rating.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of panelboard.
  - 1. Include materials, switching and overcurrent protective devices, SPDs, accessories, and components indicated.
  - 2. Include dimensions and manufacturers' technical data on features, performance, electrical characteristics, ratings, and finishes.
- B. Shop Drawings: For each panelboard and related equipment.
  - 1. Include dimensioned plans, elevations, sections, and details.
  - 2. Show tabulations of installed devices with nameplates, conductor termination sizes, equipment features, and ratings.
  - 3. Detail enclosure types including mounting and anchorage, environmental protection, knockouts, corner treatments, covers and doors, gaskets, hinges, and locks.
  - 4. Detail bus configuration, current, and voltage ratings.
  - 5. Short-circuit current rating of panelboards and overcurrent protective devices.
  - 6. Detail features, characteristics, ratings, and factory settings of individual overcurrent protective devices and auxiliary components.
  - 7. Include wiring diagrams for power, signal, and control wiring.

8. Key interlock scheme drawing and sequence of operations.
9. Include time-current coordination curves for each type and rating of overcurrent protective device included in panelboards. Submit on translucent log-log graph paper; include selectable ranges for each type of overcurrent protective device. Include an Internet link for electronic access to downloadable PDF of the coordination curves.

C. Contractor shall submit a "specifications compliance statement" for each manufactured piece of equipment. Contractor/Supplier shall add "redlined" line-by-line notations to a PDF of the Specifications Section indicating the product or actions required "complies". Contractor/Supplier shall itemize all deviations from the specified requirement on a line-by-line basis. List of exceptions to product specification shall include proposed materials, methods and cost difference where substitutions are allowed. If product does not comply with the specification the Contractor/Supplier shall state what modifications and actions are being implemented to ensure the product shall comply per the substitution section of the contract documents.

#### 1.5 STATEMENT OF COMPLIANCE

A. Contractor shall submit a "specifications compliance statement" for each manufactured piece of equipment. Contractor/Supplier shall add "redlined" notations to a PDF of the Specifications Section indicating the product or actions required "complies". If product does not comply the Contractor/Supplier shall state what modifications and actions are being implemented to ensure the product shall comply per the substitution section of the contract documents.

#### 1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For testing agency.
- B. Panelboard Schedules: For installation in panelboards. Submit final versions after load balancing.

#### 1.7 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For panelboards and components to include in emergency, operation, and maintenance manuals. In addition to items specified in other section for "Operation and Maintenance Data," include the following:
  1. Manufacturer's written instructions for testing and adjusting overcurrent protective devices.
  2. Time-current curves, including selectable ranges for each type of overcurrent protective device that allows adjustments.

#### 1.8 QUALITY ASSURANCE

- A. Manufacturer Qualifications: ISO 9001 or 9002 certified.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Remove loose packing and flammable materials from inside panelboards; install temporary electric heating (250 W per panelboard) to prevent condensation.
- B. Handle and prepare panelboards for installation according to NECA 407.

1.10 FIELD CONDITIONS

A. Environmental Limitations:

- 1. Do not deliver or install panelboards until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work above panelboards is complete, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.
- 2. Rate equipment for continuous operation under the following conditions unless otherwise indicated:
  - a. Ambient Temperature: Not exceeding 23 deg F (minus 5 deg C) to plus 104 deg F (plus 40 deg C).
  - b. Altitude: Not exceeding 6600 feet (2000 m).

B. Service Conditions: NEMA PB 1, usual service conditions, as follows:

- 1. Ambient temperatures within limits specified.
- 2. Altitude not exceeding 6600 feet (2000 m).

C. Interruption of Existing Electric Service: Do not interrupt electric service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary electric service according to requirements indicated:

- 1. Notify Construction Manager no fewer than two days in advance of proposed interruption of electric service.
- 2. Do not proceed with interruption of electric service without Construction Manager's written permission.
- 3. Comply with NFPA 70E.

1.11 WARRANTY

A. Manufacturer's Warranty: Manufacturer agrees to repair or replace panelboards that fail in materials or workmanship within specified warranty period.

- 1. Panelboard Warranty Period: 18 months from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PANELBOARDS COMMON REQUIREMENTS

A. Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in other section for "Seismic Controls for Electrical Systems."

- B. Product Selection for Restricted Space: Drawings indicate maximum dimensions for panelboards including clearances between panelboards and adjacent surfaces and other items. Comply with indicated maximum dimensions.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- D. Comply with NEMA PB 1.
- E. Comply with NFPA 70.
- F. Enclosures: Flush and Surface-mounted, dead-front cabinets.
  - 1. Rated for environmental conditions at installed location.
    - a. Indoor Dry and Clean Locations: NEMA 250, Type 1.
    - b. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 5.
  - 2. Height: 84 inches (2.13 m) maximum.
  - 3. Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover. Trims shall cover all live parts and shall have no exposed hardware.
  - 4. Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
  - 5. Finishes:
    - a. Panels and Trim: Steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
    - b. Back Boxes: Same finish as panels and trim.
- G. Incoming Mains:
  - 1. Location: Top and Bottom.
  - 2. Main Breaker: Main lug interiors up to 400 amperes shall be field convertible to main breaker.
- H. Phase, Neutral, and Ground Buses:
  - 1. Material: Hard-drawn copper, 98 percent conductivity.
    - a. Plating shall run entire length of bus.
    - b. Bus shall be fully rated the entire length.
  - 2. Interiors shall be factory assembled into a unit. Replacing switching and protective devices shall not disturb adjacent units or require removing the main bus connectors.
  - 3. Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
  - 4. Full-Sized Neutral: Equipped with full-capacity bonding strap for service entrance applications. Mount electrically isolated from enclosure. Do not mount neutral bus in gutter.
- I. Conductor Connectors: Suitable for use with conductor material and sizes.

1. Material: Hard-drawn copper, 98 percent conductivity.
  2. Terminations shall allow use of 75 deg C rated conductors without derating.
  3. Size: Lugs suitable for indicated conductor sizes, with additional gutter space, if required, for larger conductors.
  4. Main and Neutral Lugs: Mechanical type, with a lug on the neutral bar for each pole in the panelboard.
  5. Ground Lugs and Bus-Configured Terminators: Mechanical type, with a lug on the bar for each pole in the panelboard.
  6. Feed-Through Lugs: Mechanical type, suitable for use with conductor material. Locate at opposite end of bus from incoming lugs or main device.
  7. Subfeed (Double) Lugs: Mechanical type suitable for use with conductor material. Locate at same end of bus as incoming lugs or main device.
  8. Gutter-Tap Lugs: Mechanical type suitable for use with conductor material and with matching insulating covers. Locate at same end of bus as incoming lugs or main device.
- J. Future Devices: Panelboards or load centers shall have mounting brackets, bus connections, filler plates, and necessary appurtenances required for future installation of devices.
1. Percentage of Future Space Capacity: 20 percent.
- K. Panelboard Short-Circuit Current Rating: Match existing condition Ratings (Field coordinate).
- L. Panelboard Short-Circuit Current Rating: Fully rated to interrupt symmetrical short-circuit current available at terminals. Assembly listed by an NRTL for 100 percent interrupting capacity. However, if the short-circuit & coordination study requires higher AIC rating, then the contractor shall provide higher rated panels without any additional cost to the owners. It is highly recommended that short-circuit & coordination study be prepared prior to ordering the panels.
1. Panelboards and overcurrent protective devices rated 240 V or less shall have short-circuit ratings as shown on Drawings, but not less than 10,000 A rms symmetrical.
  2. Panelboards and overcurrent protective devices rated above 240 V and less than 600 V shall have short-circuit ratings as shown on Drawings, but not less than 14,000 A rms symmetrical.

## 2.2 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Panelboards shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
1. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."

## 2.3 LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Eaton.
  2. East coast Panelboard Inc.
  3. Square D; by Schneider Electric.



- B. Panelboards: NEMA PB 1, lighting and appliance branch-circuit type.
- C. Mains: Circuit breaker or lugs only.
- D. Branch Overcurrent Protective Devices: Bolt-on circuit breakers, replaceable without disturbing adjacent units.
- E. Doors: Door-in-door construction with concealed hinges; secured with multipoint latch with tumbler lock; keyed alike. Outer door shall permit full access to the panel interior. Inner door shall permit access to breaker operating handles and labeling, but current carrying terminals and bus shall remain concealed.

#### 2.4 DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Eaton.
  - 2. East coast Panelboard Inc.
  - 3. Square D; by Schneider Electric.
- B. MCCB: Comply with UL 489, with interrupting capacity to meet available fault currents.
  - 1. Thermal-Magnetic Circuit Breakers:
    - a. Inverse time-current element for low-level overloads.
    - b. Instantaneous magnetic trip element for short circuits.
    - c. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.
  - 2. GFCI Circuit Breakers: Single- and double-pole configurations with Class A ground-fault protection (6-mA trip).
  - 3. Subfeed Circuit Breakers: Vertically mounted.
  - 4. MCCB Features and Accessories:
    - a. Standard frame sizes, trip ratings, and number of poles.
    - b. Breaker handle indicates tripped status.
    - c. UL listed for reverse connection without restrictive line or load ratings.
    - d. Lugs: Mechanical style, suitable for number, size, trip ratings, and conductor materials.
    - e. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads.
    - f. Communication Capability: Circuit-breaker-mounted communication module with functions and features compatible with power monitoring and control system specified in other section for "Electrical Power Monitoring and Control."
    - g. Shunt Trip: 120-V trip coil energized from separate circuit, set to trip at 55 percent of rated voltage.
    - h. Undervoltage Trip: Set to operate at 35 to 75 percent of rated voltage without intentional time delay.
    - i. Auxiliary Contacts: One, SPDT switch with "a" and "b" contacts; "a" contacts mimic circuit-breaker contacts and "b" contacts operate in reverse of circuit-breaker contacts.
    - j. Alarm Switch: Single-pole, normally open contact that actuates only when circuit breaker trips.

- k. Multipole units enclosed in a single housing with a single handle or factory assembled to operate as a single unit.
- l. Handle Padlocking Device: Fixed attachment, for locking circuit-breaker handle in on or off position.
- m. Handle Clamp: Loose attachment, for holding circuit-breaker handle in on position.

## 2.5 IDENTIFICATION

- A. Panelboard Label: Manufacturer's name and trademark, voltage, amperage, number of phases, and number of poles shall be located on the interior of the panelboard door.
- B. Breaker Labels: Faceplate shall list current rating, UL and IEC certification standards, and AIC rating.
- C. Circuit Directory: Computer-generated circuit directory mounted inside panelboard door with transparent plastic protective cover.
  - 1. Circuit directory shall identify specific purpose with detail sufficient to distinguish it from all other circuits.

## 2.6 ACCESSORY COMPONENTS AND FEATURES

- A. Accessory Set: Include tools and miscellaneous items required for overcurrent protective device test, inspection, maintenance, and operation.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verify actual conditions with field measurements prior to ordering panelboards to verify that equipment fits in allocated space in, and comply with, minimum required clearances specified in NFPA 70.
- B. Receive, inspect, handle, and store panelboards according to NECA 407.
- C. Examine panelboards before installation. Reject panelboards that are damaged, rusted, or have been subjected to water saturation.
- D. Examine elements and surfaces to receive panelboards for compliance with installation tolerances and other conditions affecting performance of the Work.
- E. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. Coordinate layout and installation of panelboards and components with other construction that penetrates walls or is supported by them, including electrical and other types of equipment, raceways, piping, encumbrances to workspace clearance requirements, and adjacent

surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.

- B. Comply with NECA 1.
- C. Install panelboards and accessories according to NECA 407.
- D. Equipment Mounting:
  - 1. Attach panelboard to the vertical finished or structural surface behind the panelboard.
  - 2. Comply with requirements for seismic control devices specified in other section for "Seismic Controls for Electrical Systems."
- E. Comply with mounting and anchoring requirements specified in other section for "Seismic Controls for Electrical Systems."
- F. Mount top of trim **90 inches (2286 mm)** above finished floor unless otherwise indicated.
- G. Mount panelboard cabinet plumb and rigid without distortion of box.
- H. Mount recessed panelboards with fronts uniformly flush with wall finish and mating with back box.
- I. Mount surface-mounted panelboards to steel slotted supports **5/8 inch (16 mm)** in depth. Orient steel slotted supports vertically.
- J. Install overcurrent protective devices and controllers not already factory installed.
  - 1. Set field-adjustable, circuit-breaker trip ranges.
  - 2. Tighten bolted connections and circuit breaker connections using calibrated torque wrench or torque screwdriver per manufacturer's written instructions.
- K. Install filler plates in unused spaces.
- L. Arrange conductors in gutters into groups and bundle and wrap with wire ties after completing load balancing.

### 3.3 IDENTIFICATION

- A. Identify field-installed conductors, interconnecting wiring, and components; install warning signs complying with requirements in other section for "Identification for Electrical Systems."
- B. Create a directory to indicate installed circuit loads after balancing panelboard loads; incorporate Owner's final room designations. Obtain approval before installing. Handwritten directories are not acceptable. Install directory inside panelboard door.
- C. Panelboard Nameplates: Label each panelboard with a nameplate complying with requirements for identification specified in other section for "Identification for Electrical Systems."
- D. Device Nameplates: Label each branch circuit device in power panelboards with a nameplate complying with requirements for identification specified in other section for "Identification for Electrical Systems."

- E. Install warning signs complying with requirements in other section for "Identification for Electrical Systems" identifying source of remote circuit.

### 3.4 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.
- B. Perform tests and inspections.
  - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- C. Acceptance Testing Preparation:
  - 1. Test insulation resistance for each panelboard bus, component, connecting supply, feeder, and control circuit.
  - 2. Test continuity of each circuit.
- D. Tests and Inspections:
  - 1. Perform each visual and mechanical inspection and electrical test for low-voltage air circuit breakers stated in NETA ATS, Paragraph 7.6 Circuit Breakers. Perform optional tests. Certify compliance with test parameters.
  - 2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
  - 3. Perform the following infrared scan tests and inspections and prepare reports:
    - a. Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each panelboard. Remove front panels so joints and connections are accessible to portable scanner.
    - b. Instruments and Equipment:
      - 1) Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.
- E. Panelboards will be considered defective if they do not pass tests and inspections.
- F. Prepare test and inspection reports, including a certified report that identifies panelboards included and that describes scanning results, with comparisons of the two scans. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

### 3.5 ADJUSTING

- A. Adjust moving parts and operable components to function smoothly, and lubricate as recommended by manufacturer.
- B. Set field-adjustable circuit-breaker trip ranges as specified in other section for "Coordination Studies."

- C. Load Balancing: After Substantial Completion, but not more than 60 days after Final Acceptance, measure load balancing and make circuit changes. Prior to making circuit changes to achieve load balancing, inform Architect of effect on phase color coding.
  - 1. Measure loads during period of normal facility operations.
  - 2. Perform circuit changes to achieve load balancing outside normal facility operation schedule or at times directed by the Architect. Avoid disrupting services such as fax machines and on-line data processing, computing, transmitting, and receiving equipment.
  - 3. After changing circuits to achieve load balancing, recheck loads during normal facility operations. Record load readings before and after changing circuits to achieve load balancing.
  - 4. Tolerance: Maximum difference between phase loads, within a panelboard, shall not exceed 20 percent.

### 3.6 PROTECTION

- A. Temporary Heating: Prior to energizing panelboards, apply temporary heat to maintain temperature according to manufacturer's written instructions.

END OF SECTION 262416



SEAL:



J. JEFFREY STRAUB  
STATE AND LICENSE NO. RA403652

ARCHITECT

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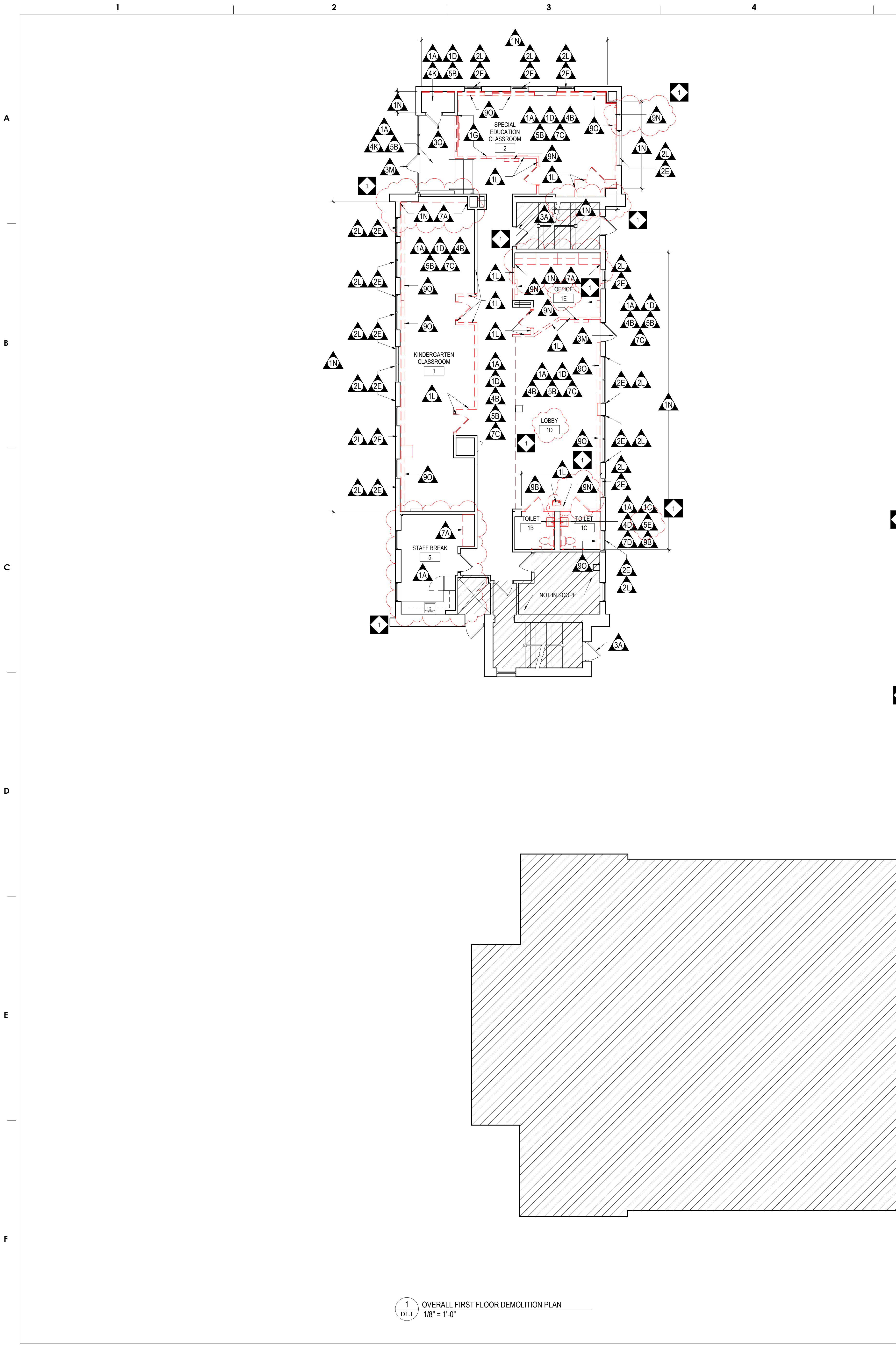
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DEMOLITION LEGEND	
TAG	DEMOLITION NOTE
<b>1 - WALL DEMOLITION &amp; RENOVATION</b>	
1A	EXISTING WALLS SHALL BE SCRAPPED; REMOVE ANY/ALL ABANDONED OR UNUSED CONDUIT, WIRING, FASTENERS, BRACKETS, PROJECTORS AND MOUNTS, PROJECTOR SCREENS, TVS AND MOUNTS, BLOCKING AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. ALL ABANDONED OR UNUSED CONDUIT, WIRING AND PIPING SHALL BE REMOVED TO THE SOURCE OF SUPPLY. PATCH ANY AND ALL PENETRATIONS AND CRACKING THROUGHOUT AND PREPARE WALLS, COLUMNS, EXPOSED PIPING, REGISTERS, HEATERS, CONDUIT AND ASSOCIATED ACCESSORIES TO RECEIVE NEW FINISH MATCHING ADJACENT FINISHED SURFACE AS SCHEDULED.
1C	REMOVE EXISTING CERAMIC TILE WALL FINISH AND WALL BASE DOWN TO EXISTING SUBSTRATE. PREPARE SURFACE TO RECEIVE NEW SCHEDULED FINISH.
1D	REMOVE EXISTING VINYL/RUBBER BASE IN ITS ENTIRETY. PATCH AND REPAIR EXISTING TO REMAIN SURFACE TO RECEIVE NEW SCHEDULED FINISH.
1G	EXISTING PORTION OF WALL SHALL BE REMOVED IN ITS ENTIRETY. PREPARE ADJACENT SURFACE FOR NEW WORK AS SCHEDULED.
1L	REMOVE EXISTING WALL IN ITS ENTIRETY TO EXTENTS INDICATED ON DRAWINGS, INCLUDING BUT NOT LIMITED TO, ALL ASSOCIATED COMPONENTS, CONDUIT, DISPLAY BOARDS, ETC. PREPARE EXISTING ADJACENT MATERIALS FOR NEW WORK AS SCHEDULED.
1N	REMOVE AND DISPOSE OF PLASTER FINISH ON METAL LATH AND/OR BACKER BOARD DOWN TO EXISTING WALL STRUCTURE AS OUTLINED IN THE ASBESTOS INSPECTION REPORT. PREPARE WALLS, COLUMNS, EXPOSED PIPING, REGISTERS, HEATERS, CONDUIT AND ASSOCIATED ACCESSORIES TO RECEIVE NEW WALL AS INDICATED ON DRAWINGS.
<b>2 - WINDOW DEMOLITION &amp; RENOVATION</b>	
2B	EXISTING SOLID SURFACE OR SLATE WINDOW SILL SHALL BE CLEANED AND REMOVED OF ALL EXISTING ADHESIVES. REMOVE ALL MISC./OBSOLETE ITEMS FROM SILL, PATCH ALL PENETRATIONS.
2E	ALL EXISTING WINDOW SHADES AND ASSOCIATED COMPONENTS SHALL BE REMOVED IN THEIR ENTIRETY. PATCH AND PREPARE ADJACENT FINISHES FOR NEW FINISHES AND/OR SHADES.
2L	REMOVE EXISTING WINDOW SILL AND ASSOCIATED TRIM AND PREPARE WINDOW AND ADJACENT SURFACES FOR NEW WORK AS SCHEDULED.
<b>3 - DOOR DEMOLITION &amp; RENOVATION</b>	
3A	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, CONDUIT AND WIRING, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM DOOR AND FRAME ASSEMBLY. ANY/ALL PENETRATIONS IN EXISTING DOOR AND FRAME, INCLUDING OLD HARDWARE PENETRATIONS, SHALL BE PATCHED WITH SAME MATERIAL AS DOOR. SAND AND RETURN TO "LIKE NEW" CONDITION AND PREPARE FOR NEW FINISH AS SCHEDULED. ALL MISCELLANEOUS HARDWARE AND SECURITY GRILLES AND ASSOCIATED BRACKETING SHALL BE REMOVED IN ITS ENTIRETY (WHERE OCCURS). PREPARE DOOR AND/OR FRAME ASSEMBLIES TO RECEIVE NEW INFILL AS SCHEDULED (WHERE OCCURS). PREPARE DOOR FOR NEW HARDWARE AS SCHEDULED. CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS. CONTRACTOR SHALL NOT REMOVE ANY COMPONENTS OF DOOR OR HARDWARE UNTIL ALL COMPONENTS OF NEW ASSEMBLY ARE PHYSICALLY ON SITE, INCLUDING CORES.
3M	EXISTING DOOR, FRAME AND HARDWARE TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, CONDUIT AND WIRING, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM ASSEMBLY. ANY/ALL PENETRATIONS IN EXISTING DOOR AND FRAME, INCLUDING OLD HARDWARE PENETRATIONS, SHALL BE PATCHED WITH SAME MATERIAL AS DOOR. SAND AND RETURN TO "LIKE NEW" CONDITION AND PREPARE FOR NEW FINISH AS SCHEDULED. ALL MISCELLANEOUS HARDWARE AND SECURITY GRILLES AND ASSOCIATED BRACKETING SHALL BE REMOVED IN ITS ENTIRETY (WHERE OCCURS). PREPARE DOOR AND/OR FRAME ASSEMBLIES TO RECEIVE NEW INFILL AS SCHEDULED (WHERE OCCURS). CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS.
3O	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, CONDUIT AND WIRING, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM DOOR AND FRAME ASSEMBLY. ANY/ALL PENETRATIONS IN EXISTING DOOR AND FRAME, INCLUDING OLD HARDWARE PENETRATIONS, SHALL BE PATCHED WITH SAME MATERIAL AS DOOR. SAND AND RETURN TO "LIKE NEW" CONDITION AND PREPARE FOR NEW FINISH AS SCHEDULED. CLEAN HARDWARE TO "LIKE NEW" CONDITION. CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS.
3P	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, CONDUIT AND WIRING, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM DOOR AND FRAME ASSEMBLY. CLEAN DOOR AND HARDWARE TO "LIKE NEW" CONDITION. FRAME SHALL BE STRIPPED, SANDED AND PREPARED FOR NEW FINISH AS SCHEDULED. CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS.
<b>4 - FLOOR DEMOLITION &amp; RENOVATION</b>	
4B	REMOVE EXISTING VINYL TILE FLOORING IN ITS ENTIRETY INCLUDING TRANSITION STRIPS AND SUBFLOOR. CONTRACTOR SHALL LEVEL FLOORING AS REQUIRED TO ACCEPT NEW SUBFLOORING, FINISH AND TRANSITIONS AS SCHEDULED. WHERE FLOOR DRAINS AND/OR PLUMBING CONNECTIONS OCCUR, CONTRACTOR SHALL MODIFY EXISTING CONNECTIONS AS REQUIRED TO ACCEPT NEW FINISH.
4D	REMOVE EXISTING CERAMIC TILE FLOORING DOWN TO EXISTING SUBSTRATE. CONTRACTOR SHALL LEVEL FLOORING AS REQUIRED TO ACCEPT NEW SUBFLOORING, FINISH AND TRANSITIONS AS SCHEDULED. WHERE FLOOR DRAINS AND/OR PLUMBING CONNECTIONS OCCUR, CONTRACTOR SHALL MODIFY EXISTING CONNECTIONS AS REQUIRED TO ACCEPT NEW FINISH.
4G	STRIP WAX ON EXISTING VCT FLOORING AND PREPARE VCT FLOORING TO RECEIVE NEW WAX FINISH AS SCHEDULED.
4K	CLEAN EXISTING TERRAZZO FLOORING, BASE AND STAIRS TO "LIKE-NEW" CONDITION.
<b>5 - CEILING DEMOLITION &amp; RENOVATION</b>	
5B	REMOVE EXISTING SUSPENDED CEILING ASSEMBLY IN ITS ENTIRETY. REMOVE ANY/ALL ABANDONED OR UNUSED CONDUIT, WIRING, FASTENERS, BRACKETS, PROJECTORS AND MOUNTS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. ALL ABANDONED OR UNUSED CONDUIT, WIRING AND PIPING SHALL BE REMOVED TO THE SOURCE OF SUPPLY. PREPARE ADJACENT SURFACES FOR NEW CEILING ASSEMBLY AS SCHEDULED. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
5C	REMOVE EXISTING SUSPENDED CEILING TILE. GRID TO REMAIN. REMOVE ANY/ALL ABANDONED OR UNUSED CONDUIT, WIRING, FASTENERS, BRACKETS, PROJECTORS AND MOUNTS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. ALL ABANDONED OR UNUSED CONDUIT, WIRING AND PIPING SHALL BE REMOVED TO THE SOURCE OF SUPPLY. GRID TO BE CLEANED AND REMOVED OF ALL EXISTING ADHESIVES AND HANGERS AND PREPARED TO RECEIVE NEW TILE. PROVIDE GRID COVERS WHEREVER MISSING OR DAMAGED. ASSUME 50 LF OF GRID WILL REQUIRE REPAIR PER CLASSROOM. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
5E	REMOVE EXISTING PLASTER AND/OR GWB ASSEMBLY IN ITS ENTIRETY. REMOVE ANY/ALL ABANDONED OR UNUSED CONDUIT, WIRING, FASTENERS, BRACKETS, PROJECTORS AND MOUNTS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. ALL ABANDONED OR UNUSED CONDUIT, WIRING AND PIPING SHALL BE REMOVED TO THE SOURCE OF SUPPLY. PREPARE ADJACENT SURFACES FOR NEW CEILING ASSEMBLY AS SCHEDULED. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
<b>7 - EQUIPMENT &amp; RENOVATION</b>	
7A	EXISTING BUILT-IN CASEWORK, BUILT-IN SHELVING AND/OR COAT HOOKS AND ASSOCIATED BLOCKING AND FASTENERS SHALL BE REMOVED IN THEIR ENTIRETY. PATCH AND PREPARE ALL ADJACENT FINISHES FOR NEW WORK AND FINISH AS SCHEDULED.
7C	REMOVE EXISTING DISPLAY BOARDS, WHERE OCCURS, TACK STRIPS, TRIM AND ALL RELATED COMPONENTS. PATCH AND REPAIR ADJACENT FINISHES TO MATCH EXISTING.
7D	REMOVE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, SOAP DISPENSERS, PAPER TOWEL DISPENSERS, MIRRORS, SOAP DISHES, HAND SANITIZERS, CURTAIN RODS, GRAB BARS, ETC FROM ROOM IN THEIR ENTIRETY. RETURN ALL ACCESSORIES TO OWNER. WHERE RECESSED SOAP TRAYS/DISPENSERS OR RECESSED PAPER TOWEL DISPENSERS/WASTE RECEPTACLES OCCUR, REMOVE AND PATCH WALL TO RECEIVE NEW FINISH AS SCHEDULED.
7G	REMOVE EXISTING SMARTBOARD WALL OR FLOOR MOUNTED BRACKETS IN THEIR ENTIRETY, WHERE OCCURS. PATCH AND PREPARE ALL ADJACENT FINISHES FOR NEW WORK AND FINISH AS SCHEDULED.
<b>9 - MEP DEMOLITION &amp; RENOVATION</b>	
9B	REMOVE ALL PLUMBING FIXTURES AND PATCH ANY/ALL PENETRATIONS AND PREPARE SURFACE TO RECEIVE NEW FINISH AND/OR WORK AS SCHEDULED. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
9D	EXISTING UNIT VENTILATOR AND/OR RADIATOR COVER TO REMAIN. CLEAN TO "LIKE NEW" CONDITION.
9I	EXISTING UNIT VENTILATOR GRILL TO BE REMOVED AND REFINISHED WITH ELECTROSTATIC PAINT AND REINSTALLED AS SCHEDULED.
9N	MECHANICAL INDOOR UNIT TO RECEIVE NEW WORK. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.
9O	REMOVE EXISTING RADIATOR AND ALL ASSOCIATED COMPONENTS AS IN THEIR ENTIRETY TO ACCOMMODATE NEW WORK. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.

NOTE:  
REFER TO "GENERAL PROJECT ALTERATION NOTES" ON CS-2 FOR ADDITIONAL INFORMATION.  
REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.



1 OVERALL FIRST FLOOR DEMOLITION PLAN  
D1.1  
1/8" = 1'-0"

LEGEND	
	NOT IN SCOPE

100% DESIGN SUBMISSION  
1/22/2020

10	
9	
8	
7	
6	
5	
4	
3	
2	
1	3/5/2020 ADDENDUM # 1
NO.	DATE REVISION

SCHOOL & LOCATION  
**OVERBROOK EDUCATIONAL CENTER**

MAILING ADDRESS: 6722  
LANSDOWNE AVENUE,  
PHILADELPHIA, PA 19151  
DEED ADDRESS: 6730-38  
LANSDOWNE AVENUE,  
PHILADELPHIA, PA 19151-3625

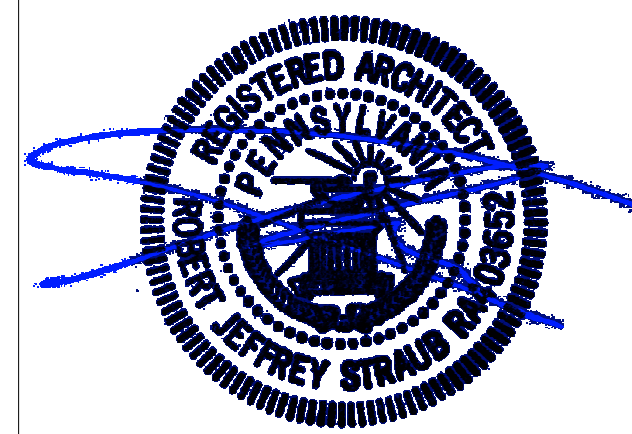
PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**OVERALL FIRST FLOOR DEMOLITION PLAN**

LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY
B-028C OF 2019 / 20	B-030C OF 2019 / 20

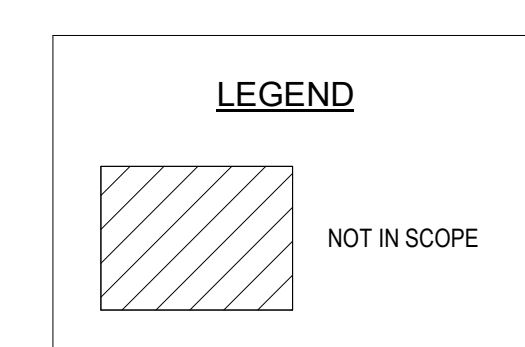
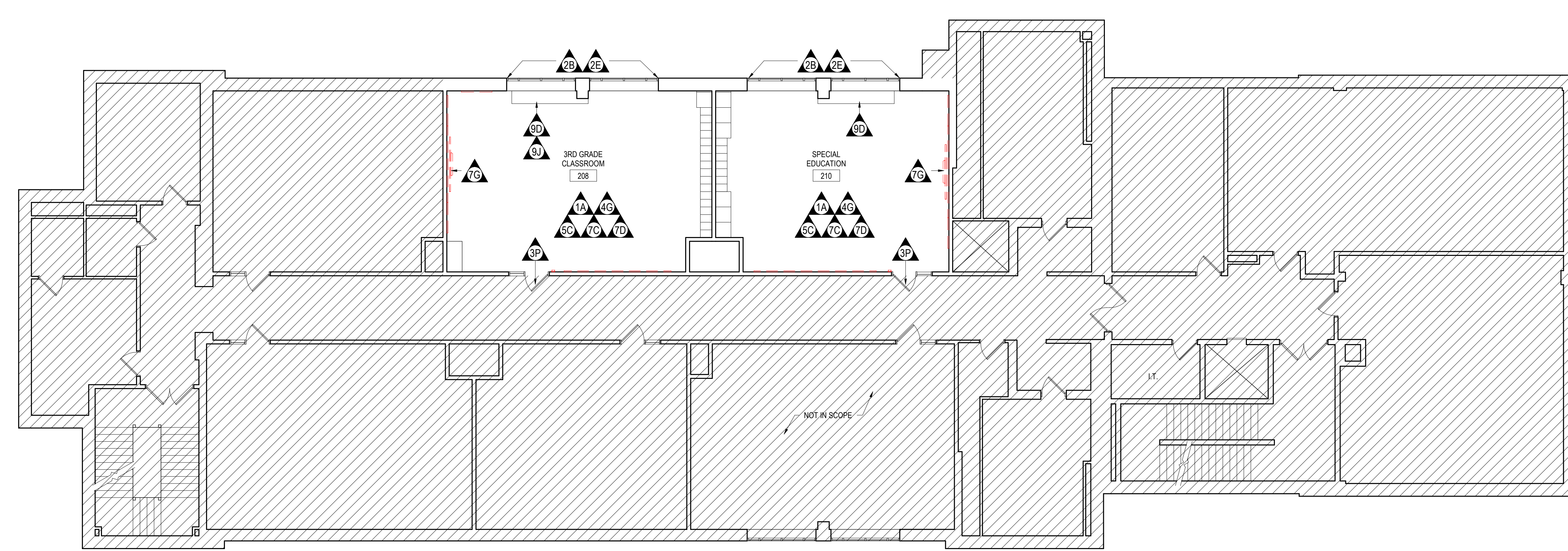
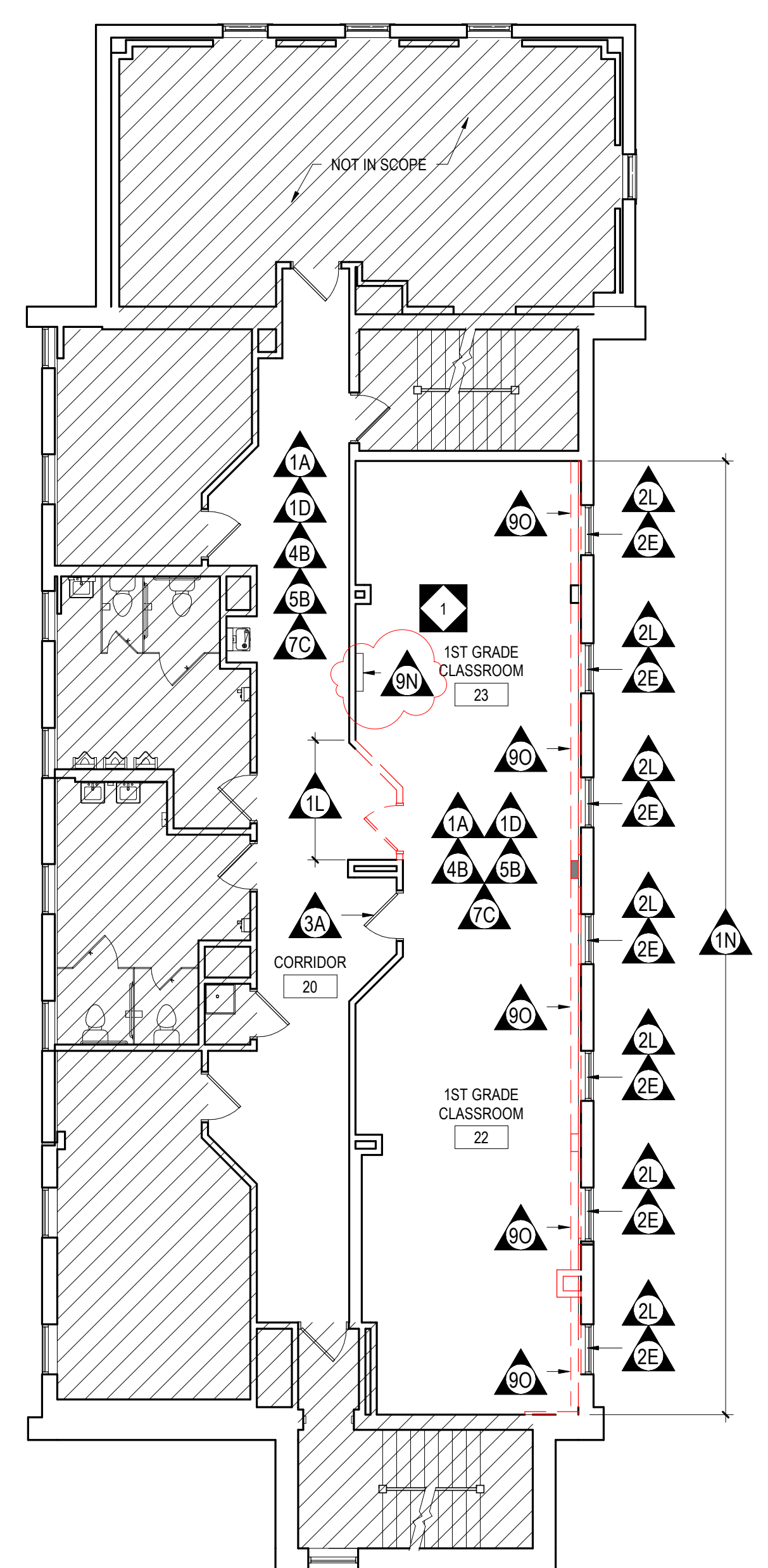
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**D1.1**





TAG	DEMOLITION NOTE
<b>1 - WALL DEMOLITION &amp; RENOVATION</b>	
1A	EXISTING WALLS SHALL BE SCRAPPED; REMOVE ANY/ALL ABANDONED OR UNUSED CONDUIT, WIRING, FASTENERS, BRACKETS, PROJECTORS AND MOUNTS, PROJECTOR SCREENS, TVS AND MOUNTS, BLOCKING AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. ALL ABANDONED OR UNUSED CONDUIT, WIRING AND PIPING SHALL BE REMOVED TO THE SOURCE OF SUPPLY. PATCH ANY AND ALL PENETRATIONS AND CRACKING THROUGHOUT AND PREPARE WALLS, COLUMNS, EXPOSED PIPING, REGISTERS, HEATERS, CONDUIT AND ASSOCIATED ACCESSORIES TO RECEIVE NEW FINISH MATCHING ADJACENT FINISHED SURFACE AS SCHEDULED.
1C	REMOVE EXISTING CERAMIC TILE WALL FINISH AND WALL BASE DOWN TO EXISTING SUBSTRATE. PREPARE SURFACE TO RECEIVE NEW SCHEDULED FINISH.
1D	REMOVE EXISTING VINYL/RUBBER BASE IN ITS ENTIRETY. PATCH AND REPAIR EXISTING TO REMAIN SURFACE TO RECEIVE NEW SCHEDULED FINISH.
1G	EXISTING PORTION OF WALL SHALL BE REMOVED IN ITS ENTIRETY. PREPARE ADJACENT SURFACE FOR NEW WORK AS SCHEDULED.
1L	REMOVE EXISTING WALL IN ITS ENTIRETY TO EXTENTS INDICATED ON DRAWINGS, INCLUDING BUT NOT LIMITED TO, ALL ASSOCIATED COMPONENTS, CONDUIT, DISPLAY BOARDS, ETC. PREPARE EXISTING ADJACENT MATERIALS FOR NEW WORK AS SCHEDULED.
1N	REMOVE AND DISPOSE OF PLASTER FINISH ON METAL LATH AND/OR BACKER BOARD DOWN TO EXISTING WALL STRUCTURE AS OUTLINED IN THE ASBESTOS INSPECTION REPORT. PREPARE WALLS, COLUMNS, EXPOSED PIPING, REGISTERS, HEATERS, CONDUIT AND ASSOCIATED ACCESSORIES TO RECEIVE NEW WALL AS INDICATED ON DRAWINGS.
<b>2 - WINDOW DEMOLITION &amp; RENOVATION</b>	
2B	EXISTING SOLID SURFACE OR SLATE WINDOW SILL SHALL BE CLEANED AND REMOVED OF ALL EXISTING ADHESIVES. REMOVE ALL MISC./OBSOLETE ITEMS FROM SILL, PATCH ALL PENETRATIONS.
2E	ALL EXISTING WINDOW SHADES AND ASSOCIATED COMPONENTS SHALL BE REMOVED IN THEIR ENTIRETY. PATCH AND PREPARE ADJACENT FINISHES FOR NEW FINISHES AND/OR SHADES.
2L	REMOVE EXISTING WINDOW SILL AND ASSOCIATED TRIM AND PREPARE WINDOW AND ADJACENT SURFACES FOR NEW WORK AS SCHEDULED.
<b>3 - DOOR DEMOLITION &amp; RENOVATION</b>	
3A	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, CONDUIT AND WIRING, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM DOOR AND FRAME ASSEMBLY. ANY/ALL PENETRATIONS IN EXISTING DOOR AND FRAME, INCLUDING OLD HARDWARE PENETRATIONS, SHALL BE PATCHED WITH SAME MATERIAL AS DOOR. SAND AND RETURN TO "LIKE NEW" CONDITION AND PREPARE FOR NEW FINISH AS SCHEDULED. ALL MISCELLANEOUS HARDWARE AND SECURITY GRILLES AND ASSOCIATED BRACKETING SHALL BE REMOVED IN ITS ENTIRETY (WHERE OCCURS). PREPARE DOOR AND/OR FRAME ASSEMBLIES TO RECEIVE NEW INFILL AS SCHEDULED (WHERE OCCURS). PREPARE DOOR FOR NEW HARDWARE AS SCHEDULED. CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS. CONTRACTOR SHALL NOT REMOVE ANY COMPONENTS OF DOOR OR HARDWARE UNTIL ALL COMPONENTS OF NEW ASSEMBLY ARE PHYSICALLY ON SITE, INCLUDING CORES.
3M	EXISTING DOOR, FRAME AND HARDWARE TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, CONDUIT AND WIRING, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM ASSEMBLY. ANY/ALL PENETRATIONS IN EXISTING DOOR AND FRAME, INCLUDING OLD HARDWARE PENETRATIONS, SHALL BE PATCHED WITH SAME MATERIAL AS DOOR. SAND AND RETURN TO "LIKE NEW" CONDITION AND PREPARE FOR NEW FINISH AS SCHEDULED. ALL MISCELLANEOUS HARDWARE AND SECURITY GRILLES AND ASSOCIATED BRACKETING SHALL BE REMOVED IN ITS ENTIRETY (WHERE OCCURS). PREPARE DOOR AND/OR FRAME ASSEMBLIES TO RECEIVE NEW INFILL AS SCHEDULED (WHERE OCCURS). CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS.
3O	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, CONDUIT AND WIRING, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM DOOR AND FRAME ASSEMBLY. ANY/ALL PENETRATIONS IN EXISTING DOOR AND FRAME, INCLUDING OLD HARDWARE PENETRATIONS, SHALL BE PATCHED WITH SAME MATERIAL AS DOOR. SAND AND RETURN TO "LIKE NEW" CONDITION AND PREPARE FOR NEW FINISH AS SCHEDULED. CLEAN HARDWARE TO "LIKE NEW" CONDITION. CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS.
3P	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, CONDUIT AND WIRING, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM DOOR AND FRAME ASSEMBLY. CLEAN DOOR AND HARDWARE TO "LIKE NEW" CONDITION. FRAME SHALL BE STRIPPED, SANDED AND PREPARED FOR NEW FINISH AS SCHEDULED. CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS.
<b>4 - FLOOR DEMOLITION &amp; RENOVATION</b>	
4B	REMOVE EXISTING VINYL TILE FLOORING IN ITS ENTIRETY INCLUDING TRANSITION STRIPS AND SUBFLOOR. CONTRACTOR SHALL LEVEL FLOORING AS REQUIRED TO ACCEPT NEW SUBFLOORING, FINISH AND TRANSITIONS AS SCHEDULED. WHERE FLOOR DRAINS AND/OR PLUMBING CONNECTIONS OCCUR, CONTRACTOR SHALL MODIFY EXISTING CONNECTIONS AS REQUIRED TO ACCEPT NEW FINISH.
4D	REMOVE EXISTING CERAMIC TILE FLOORING DOWN TO EXISTING SUBSTRATE. CONTRACTOR SHALL LEVEL FLOORING AS REQUIRED TO ACCEPT NEW SUBFLOORING, FINISH AND TRANSITIONS AS SCHEDULED. WHERE FLOOR DRAINS AND/OR PLUMBING CONNECTIONS OCCUR, CONTRACTOR SHALL MODIFY EXISTING CONNECTIONS AS REQUIRED TO ACCEPT NEW FINISH.
4G	STRIP WAX ON EXISTING VCT FLOORING AND PREPARE VCT FLOORING TO RECEIVE NEW WAX FINISH AS SCHEDULED.
4K	CLEAN EXISTING TERRAZZO FLOORING, BASE AND STAIRS TO "LIKE-NEW" CONDITION.
<b>5 - CEILING DEMOLITION &amp; RENOVATION</b>	
5B	REMOVE EXISTING SUSPENDED CEILING ASSEMBLY IN ITS ENTIRETY. REMOVE ANY/ALL ABANDONED OR UNUSED CONDUIT, WIRING, FASTENERS, BRACKETS, PROJECTORS AND MOUNTS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. ALL ABANDONED OR UNUSED CONDUIT, WIRING AND PIPING SHALL BE REMOVED TO THE SOURCE OF SUPPLY. PREPARE ADJACENT SURFACES FOR NEW CEILING ASSEMBLY AS SCHEDULED. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
5C	REMOVE EXISTING SUSPENDED CEILING TILE. GRID TO REMAIN. REMOVE ANY/ALL ABANDONED OR UNUSED CONDUIT, WIRING, FASTENERS, BRACKETS, PROJECTORS AND MOUNTS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. ALL ABANDONED OR UNUSED CONDUIT, WIRING AND PIPING SHALL BE REMOVED TO THE SOURCE OF SUPPLY. GRID TO BE CLEANED AND REMOVED OF ALL EXISTING ADHESIVES AND HANGERS AND PREPARED TO RECEIVE NEW TILE. PROVIDE GRID COVERS WHEREVER MISSING OR DAMAGED. ASSUME 50 LF OF GRID WILL REQUIRE REPAIR PER CLASSROOM. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
5E	REMOVE EXISTING PLASTER AND/OR GWB ASSEMBLY IN ITS ENTIRETY. REMOVE ANY/ALL ABANDONED OR UNUSED CONDUIT, WIRING, FASTENERS, BRACKETS, PROJECTORS AND MOUNTS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. ALL ABANDONED OR UNUSED CONDUIT, WIRING AND PIPING SHALL BE REMOVED TO THE SOURCE OF SUPPLY. PREPARE ADJACENT SURFACES FOR NEW CEILING ASSEMBLY AS SCHEDULED. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
<b>7 - EQUIPMENT &amp; RENOVATION</b>	
7A	EXISTING BUILT-IN CASEWORK, BUILT-IN SHELVING AND/OR COAT HOOKS AND ASSOCIATED BLOCKING AND FASTENERS SHALL BE REMOVED IN THEIR ENTIRETY. PATCH AND PREPARE ALL ADJACENT FINISHES FOR NEW WORK AND FINISH AS SCHEDULED.
7C	REMOVE EXISTING DISPLAY BOARDS, WHERE OCCURS, TACK STRIPS, TRIM AND ALL RELATED COMPONENTS. PATCH AND REPAIR ADJACENT FINISHES TO MATCH EXISTING.
7D	REMOVE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, SOAP DISPENSERS, PAPER TOWEL DISPENSERS, MIRRORS, SOAP DISHES, HAND SANITIZERS, CURTAIN RODS, GRAB BARS, ETC FROM ROOM IN THEIR ENTIRETY. RETURN ALL ACCESSORIES TO OWNER. WHERE RECESSED SOAP TRAYS/DISPENSERS OR RECESSED PAPER TOWEL DISPENSERS/WASTE RECEPTACLES OCCUR, REMOVE AND PATCH WALL TO RECEIVE NEW FINISH AS SCHEDULED.
7G	REMOVE EXISTING SMARTBOARD WALL OR FLOOR MOUNTED BRACKETS IN THEIR ENTIRETY, WHERE OCCURS. PATCH AND PREPARE ALL ADJACENT FINISHES FOR NEW WORK AND FINISH AS SCHEDULED.
<b>9 - MEP DEMOLITION &amp; RENOVATION</b>	
9B	REMOVE ALL PLUMBING FIXTURES AND PATCH ANY/ALL PENETRATIONS AND PREPARE SURFACE TO RECEIVE NEW FINISH AND/OR WORK AS SCHEDULED. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
9D	EXISTING UNIT VENTILATOR AND/OR RADIATOR COVER TO REMAIN. CLEAN TO "LIKE NEW" CONDITION.
9I	EXISTING UNIT VENTILATOR GRILL TO BE REMOVED AND REFINISHED WITH ELECTROSTATIC PAINT AND REINSTALLED AS SCHEDULED.
9N	MECHANICAL INDOOR UNIT TO RECEIVE NEW WORK. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.
9O	REMOVE EXISTING RADIATOR AND ALL ASSOCIATED COMPONENTS AS IN THEIR ENTIRETY TO ACCOMMODATE NEW WORK. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.

NOTE:  
REFER TO "GENERAL PROJECT ALTERATION NOTES" ON SS-2 FOR ADDITIONAL INFORMATION.  
REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.



1 OVERALL SECOND FLOOR DEMOLITION PLAN  
D1.2 1/8" = 1'-0"

100% DESIGN SUBMISSION  
1/22/2020

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1	3/5/2020	ADDENDUM # 1
NO.	DATE	REVISION

SCHOOL & LOCATION  
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MAILING ADDRESS: 6722  
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DEED ADDRESS: 6730-38  
LANSDOWNE AVENUE,  
PHILADELPHIA, PA 19151-3625

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**OVERALL SECOND FLOOR DEMOLITION PLAN**

LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY
B-028C	OF 2019 / 20
B-030C	OF 2019 / 20
DRAWING NO.	
<b>D1.2</b>	



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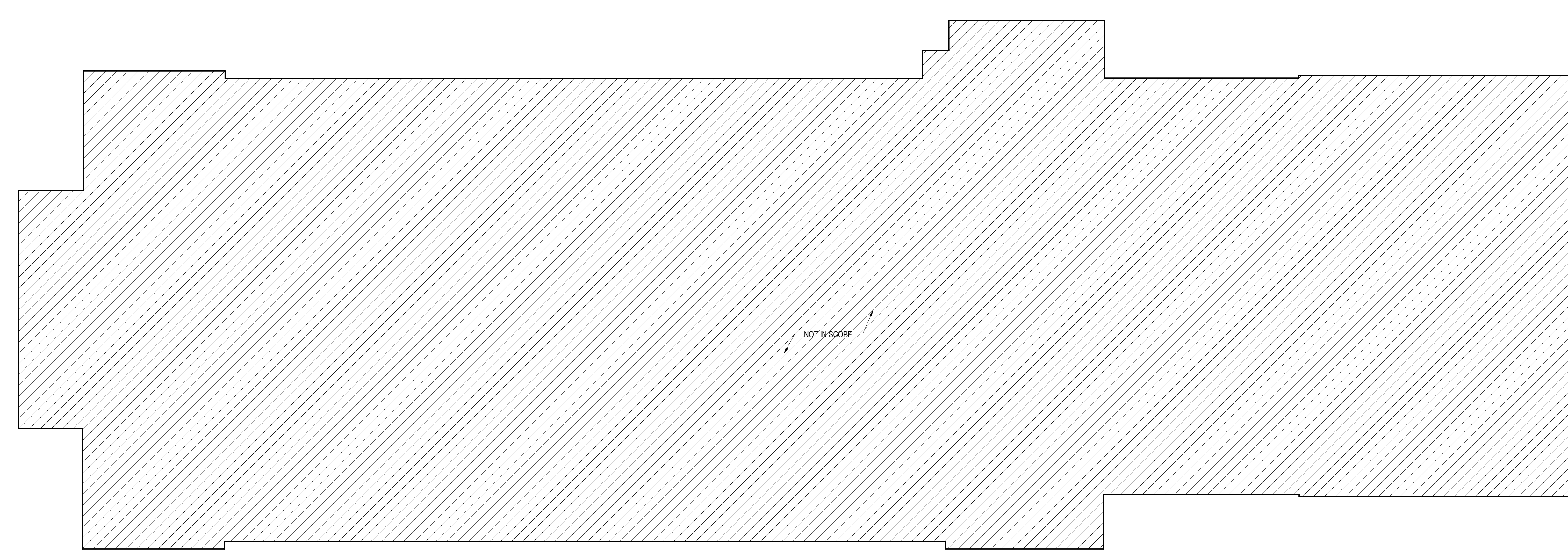
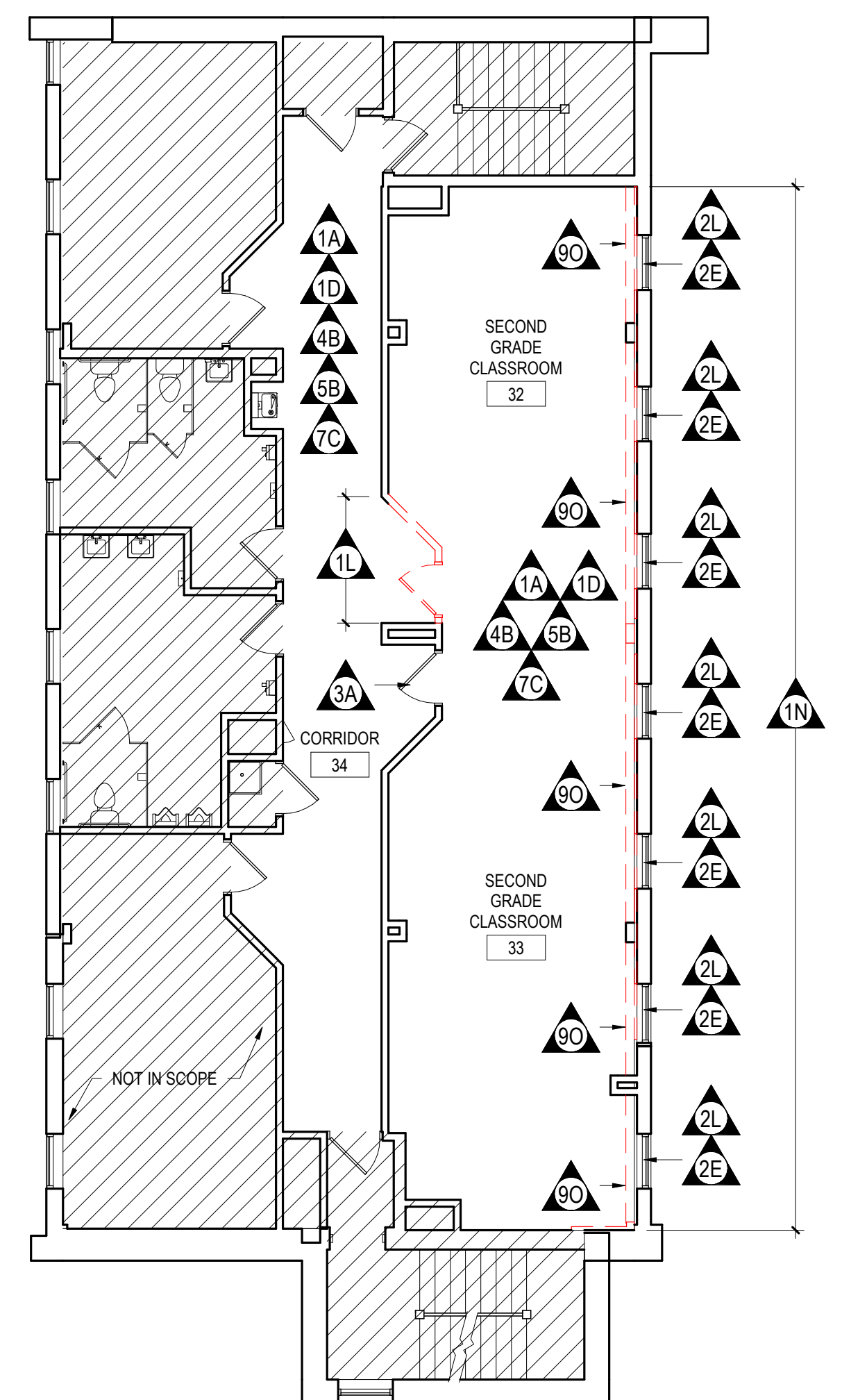
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DEMOLITION LEGEND

DEMOLITION NOTE

TAG	DEMOLITION NOTE
<b>1 - WALL DEMOLITION &amp; RENOVATION</b>	
1A	EXISTING WALLS SHALL BE SCRAPPED; REMOVE ANY/ALL ABANDONED OR UNUSED CONDUIT, WIRING, FASTENERS, BRACKETS, PROJECTORS AND MOUNTS, PROJECTOR SCREENS, TVS AND MOUNTS, BLOCKING AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. ALL ABANDONED OR UNUSED CONDUIT, WIRING AND PIPING SHALL BE REMOVED TO THE SOURCE OF SUPPLY. PATCH ANY AND ALL PENETRATIONS AND CRACKING THROUGHOUT AND PREPARE WALLS, COLUMNS, EXPOSED PIPING, REGISTERS, HEATERS, CONDUIT AND ASSOCIATED ACCESSORIES TO RECEIVE NEW FINISH MATCHING ADJACENT FINISHED SURFACE AS SCHEDULED.
1C	REMOVE EXISTING CERAMIC TILE WALL FINISH AND WALL BASE DOWN TO EXISTING SUBSTRATE. PREPARE SURFACE TO RECEIVE NEW SCHEDULED FINISH.
1D	REMOVE EXISTING VINYL/RUBBER BASE IN ITS ENTIRETY. PATCH AND REPAIR EXISTING TO REMAIN SURFACE TO RECEIVE NEW SCHEDULED FINISH.
1G	EXISTING PORTION OF WALL SHALL BE REMOVED IN ITS ENTIRETY. PREPARE ADJACENT SURFACE FOR NEW WORK AS SCHEDULED.
1L	REMOVE EXISTING WALL IN ITS ENTIRETY TO EXTENTS INDICATED ON DRAWINGS, INCLUDING BUT NOT LIMITED TO, ALL ASSOCIATED COMPONENTS, CONDUIT, DISPLAY BOARDS, ETC. PREPARE EXISTING ADJACENT MATERIALS FOR NEW WORK AS SCHEDULED.
1N	REMOVE AND DISPOSE OF PLASTER FINISH ON METAL LATH AND/OR BACKER BOARD DOWN TO EXISTING WALL STRUCTURE AS OUTLINED IN THE ASBESTOS INSPECTION REPORT. PREPARE WALLS, COLUMNS, EXPOSED PIPING, REGISTERS, HEATERS, CONDUIT AND ASSOCIATED ACCESSORIES TO RECEIVE NEW WALL AS INDICATED ON DRAWINGS.
<b>2 - WINDOW DEMOLITION &amp; RENOVATION</b>	
2B	EXISTING SOLID SURFACE OR SLATE WINDOW SILL SHALL BE CLEANED AND REMOVED OF ALL EXISTING ADHESIVES. REMOVE ALL MISC./OBSOLETE ITEMS FROM SILL, PATCH ALL PENETRATIONS.
2E	ALL EXISTING WINDOW SHADES AND ASSOCIATED COMPONENTS SHALL BE REMOVED IN THEIR ENTIRETY. PATCH AND PREPARE ADJACENT FINISHES FOR NEW FINISHES AND/OR SHADES.
2L	REMOVE EXISTING WINDOW SILL AND ASSOCIATED TRIM AND PREPARE WINDOW AND ADJACENT SURFACES FOR NEW WORK AS SCHEDULED.
<b>3 - DOOR DEMOLITION &amp; RENOVATION</b>	
3A	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, CONDUIT AND WIRING, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM DOOR AND FRAME ASSEMBLY. ANY/ALL PENETRATIONS IN EXISTING DOOR AND FRAME, INCLUDING OLD HARDWARE PENETRATIONS, SHALL BE PATCHED WITH SAME MATERIAL AS DOOR. SAND AND RETURN TO "LIKE NEW" CONDITION AND PREPARE FOR NEW FINISH AS SCHEDULED. ALL MISCELLANEOUS HARDWARE AND SECURITY GRILLES AND ASSOCIATED BRACKETING SHALL BE REMOVED IN ITS ENTIRETY (WHERE OCCURS). PREPARE DOOR AND/OR FRAME ASSEMBLIES TO RECEIVE NEW INFILL AS SCHEDULED (WHERE OCCURS). PREPARE DOOR FOR NEW HARDWARE AS SCHEDULED. CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS. CONTRACTOR SHALL NOT REMOVE ANY COMPONENTS OF DOOR OR HARDWARE UNTIL ALL COMPONENTS OF NEW ASSEMBLY ARE PHYSICALLY ON SITE, INCLUDING CORES.
3M	EXISTING DOOR, FRAME AND HARDWARE TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, CONDUIT AND WIRING, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM ASSEMBLY. ANY/ALL PENETRATIONS IN EXISTING DOOR AND FRAME, INCLUDING OLD HARDWARE PENETRATIONS, SHALL BE PATCHED WITH SAME MATERIAL AS DOOR. SAND AND RETURN TO "LIKE NEW" CONDITION AND PREPARE FOR NEW FINISH AS SCHEDULED. ALL MISCELLANEOUS HARDWARE AND SECURITY GRILLES AND ASSOCIATED BRACKETING SHALL BE REMOVED IN ITS ENTIRETY (WHERE OCCURS). PREPARE DOOR AND/OR FRAME ASSEMBLIES TO RECEIVE NEW INFILL AS SCHEDULED (WHERE OCCURS). CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS.
3O	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, CONDUIT AND WIRING, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM DOOR AND FRAME ASSEMBLY. ANY/ALL PENETRATIONS IN EXISTING DOOR AND FRAME, INCLUDING OLD HARDWARE PENETRATIONS, SHALL BE PATCHED WITH SAME MATERIAL AS DOOR. SAND AND RETURN TO "LIKE NEW" CONDITION AND PREPARE FOR NEW FINISH AS SCHEDULED. CLEAN HARDWARE TO "LIKE NEW" CONDITION. CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS.
3P	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, CONDUIT AND WIRING, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM DOOR AND FRAME ASSEMBLY. CLEAN DOOR AND HARDWARE TO "LIKE NEW" CONDITION. FRAME SHALL BE STRIPPED, SANDED AND PREPARED FOR NEW FINISH AS SCHEDULED. CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS.
<b>4 - FLOOR DEMOLITION &amp; RENOVATION</b>	
4B	REMOVE EXISTING VINYL TILE FLOORING IN ITS ENTIRETY INCLUDING TRANSITION STRIPS AND SUBFLOOR. CONTRACTOR SHALL LEVEL FLOORING AS REQUIRED TO ACCEPT NEW SUBFLOORING, FINISH AND TRANSITIONS AS SCHEDULED. WHERE FLOOR DRAINS AND/OR PLUMBING CONNECTIONS OCCUR, CONTRACTOR SHALL MODIFY EXISTING CONNECTIONS AS REQUIRED TO ACCEPT NEW FINISH.
4D	REMOVE EXISTING CERAMIC TILE FLOORING DOWN TO EXISTING SUBSTRATE. CONTRACTOR SHALL LEVEL FLOORING AS REQUIRED TO ACCEPT NEW SUBFLOORING, FINISH AND TRANSITIONS AS SCHEDULED. WHERE FLOOR DRAINS AND/OR PLUMBING CONNECTIONS OCCUR, CONTRACTOR SHALL MODIFY EXISTING CONNECTIONS AS REQUIRED TO ACCEPT NEW FINISH.
4G	STRIP WAX ON EXISTING VCT FLOORING AND PREPARE VCT FLOORING TO RECEIVE NEW WAX FINISH AS SCHEDULED.
4K	CLEAN EXISTING TERRAZZO FLOORING, BASE AND STAIRS TO "LIKE-NEW" CONDITION.
<b>5 - CEILING DEMOLITION &amp; RENOVATION</b>	
5B	REMOVE EXISTING SUSPENDED CEILING ASSEMBLY IN ITS ENTIRETY. REMOVE ANY/ALL ABANDONED OR UNUSED CONDUIT, WIRING, FASTENERS, BRACKETS, PROJECTORS AND MOUNTS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. ALL ABANDONED OR UNUSED CONDUIT, WIRING AND PIPING SHALL BE REMOVED TO THE SOURCE OF SUPPLY. PREPARE ADJACENT SURFACES FOR NEW CEILING ASSEMBLY AS SCHEDULED. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
5C	REMOVE EXISTING SUSPENDED CEILING TILE. GRID TO REMAIN. REMOVE ANY/ALL ABANDONED OR UNUSED CONDUIT, WIRING, FASTENERS, BRACKETS, PROJECTORS AND MOUNTS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. ALL ABANDONED OR UNUSED CONDUIT, WIRING AND PIPING SHALL BE REMOVED TO THE SOURCE OF SUPPLY. GRID TO BE CLEANED AND REMOVED OF ALL EXISTING ADHESIVES AND HANGERS AND PREPARED TO RECEIVE NEW TILE. PROVIDE GRID COVERS WHEREVER MISSING OR DAMAGED. ASSUME 50 LF OF GRID WILL REQUIRE REPAIR PER CLASSROOM. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
5E	REMOVE EXISTING PLASTER AND/OR GWB ASSEMBLY IN ITS ENTIRETY. REMOVE ANY/ALL ABANDONED OR UNUSED CONDUIT, WIRING, FASTENERS, BRACKETS, PROJECTORS AND MOUNTS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. ALL ABANDONED OR UNUSED CONDUIT, WIRING AND PIPING SHALL BE REMOVED TO THE SOURCE OF SUPPLY. PREPARE ADJACENT SURFACES FOR NEW CEILING ASSEMBLY AS SCHEDULED. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
<b>7 - EQUIPMENT &amp; RENOVATION</b>	
7A	EXISTING BUILT-IN CASEWORK, BUILT-IN SHELVING AND/OR COAT HOOKS AND ASSOCIATED BLOCKING AND FASTENERS SHALL BE REMOVED IN THEIR ENTIRETY. PATCH AND PREPARE ALL ADJACENT FINISHES FOR NEW WORK AND FINISH AS SCHEDULED.
7C	REMOVE EXISTING DISPLAY BOARDS, WHERE OCCURS, TACK STRIPS, TRIM AND ALL RELATED COMPONENTS. PATCH AND REPAIR ADJACENT FINISHES TO MATCH EXISTING.
7D	REMOVE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, SOAP DISPENSERS, PAPER TOWEL DISPENSERS, MIRRORS, SOAP DISHES, HAND SANITIZERS, CURTAIN RODS, GRAB BARS, ETC FROM ROOM IN THEIR ENTIRETY. RETURN ALL ACCESSORIES TO OWNER. WHERE RECESSED SOAP TRAYS/DISPENSERS OR RECESSED PAPER TOWEL DISPENSERS/WASTE RECEPTACLES OCCUR, REMOVE AND PATCH WALL TO RECEIVE NEW FINISH AS SCHEDULED.
7G	REMOVE EXISTING SMARTBOARD WALL OR FLOOR MOUNTED BRACKETS IN THEIR ENTIRETY, WHERE OCCURS. PATCH AND PREPARE ALL ADJACENT FINISHES FOR NEW WORK AND FINISH AS SCHEDULED.
<b>9 - MEP DEMOLITION &amp; RENOVATION</b>	
9B	REMOVE ALL PLUMBING FIXTURES AND PATCH ANY/ALL PENETRATIONS AND PREPARE SURFACE TO RECEIVE NEW FINISH AND/OR WORK AS SCHEDULED. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
9D	EXISTING UNIT VENTILATOR AND/OR RADIATOR COVER TO REMAIN. CLEAN TO "LIKE NEW" CONDITION.
9I	EXISTING UNIT VENTILATOR GRILL TO BE REMOVED AND REFINISHED WITH ELECTROSTATIC PAINT AND REINSTALLED AS SCHEDULED.
9N	MECHANICAL INDOOR UNIT TO RECEIVE NEW WORK. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.
9O	REMOVE EXISTING RADIATOR AND ALL ASSOCIATED COMPONENTS AS IN THEIR ENTIRETY TO ACCOMMODATE NEW WORK. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.

NOTE:  
REFER TO "GENERAL PROJECT ALTERATION NOTES" ON CS-2 FOR ADDITIONAL INFORMATION.  
REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.



1 OVERALL THIRD FLOOR DEMOLITION PLAN  
D1.3 1/8" = 1'-0"

**LEGEND**

NOT IN SCOPE

100% DESIGN SUBMISSION  
1/22/2020

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1	3/5/2020	ADDENDUM # 1
NO.	DATE	REVISION

SCHOOL & LOCATION  
**OVERBROOK EDUCATIONAL CENTER**  
MAILING ADDRESS: 6722  
LANSLOWNE AVENUE,  
PHILADELPHIA, PA 19151  
DEED ADDRESS: 6730-38  
LANSLOWNE AVENUE,  
PHILADELPHIA, PA 19151-3625

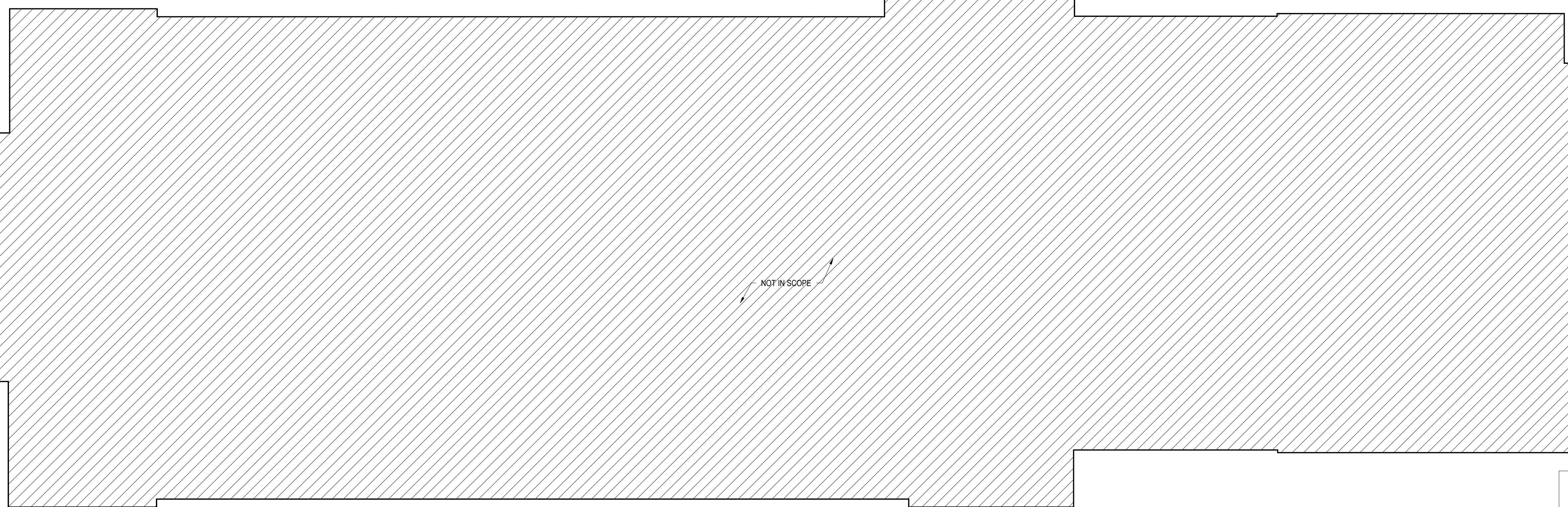
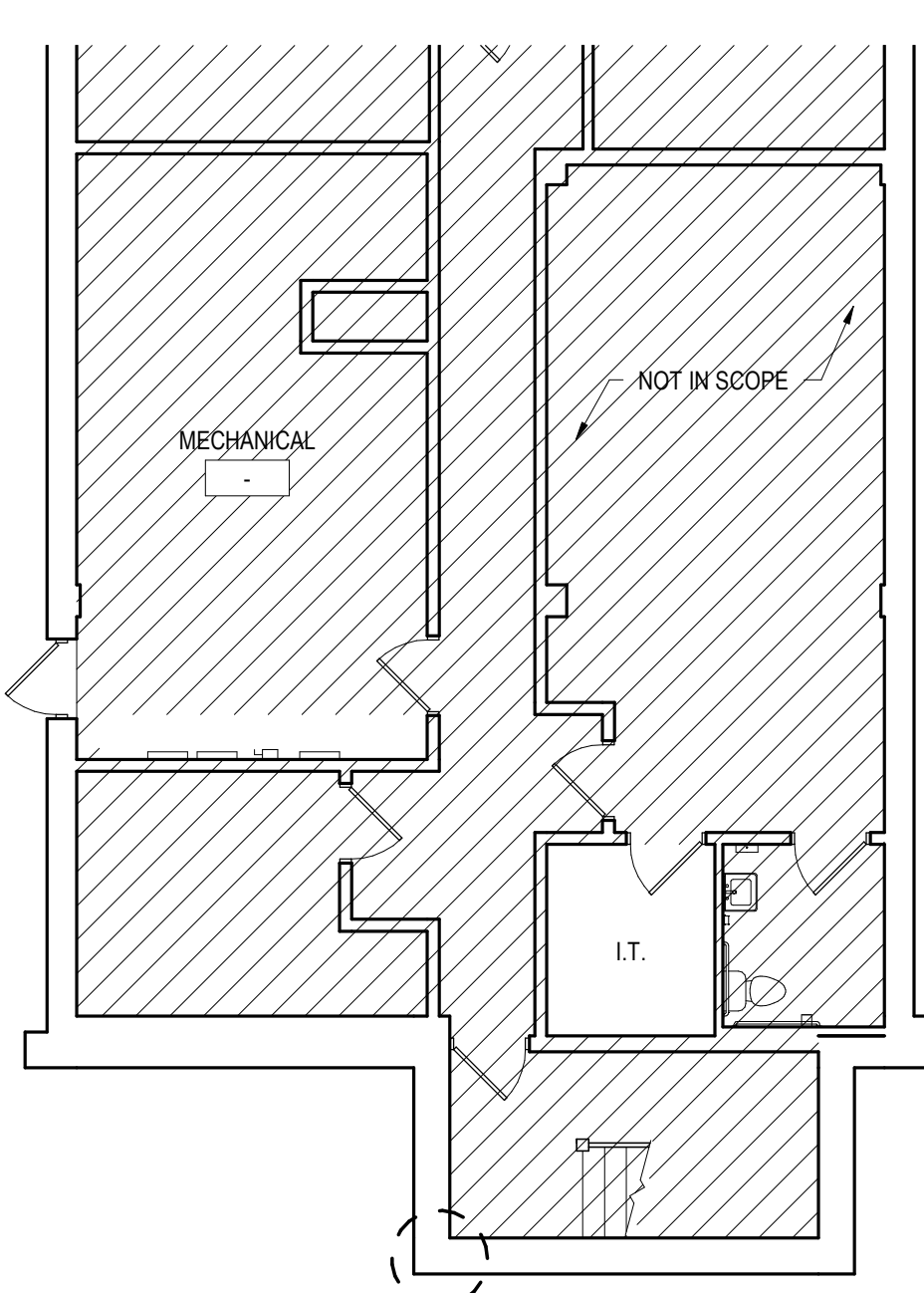
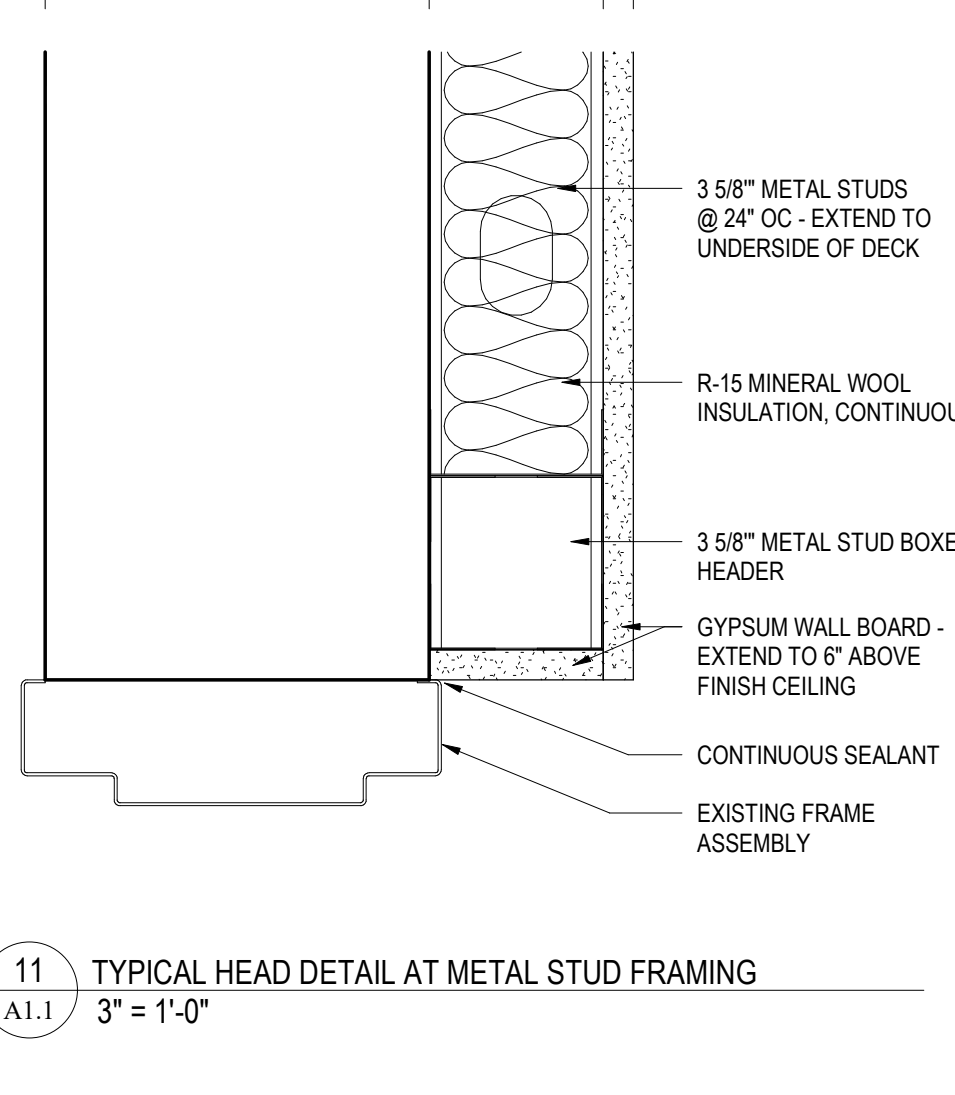
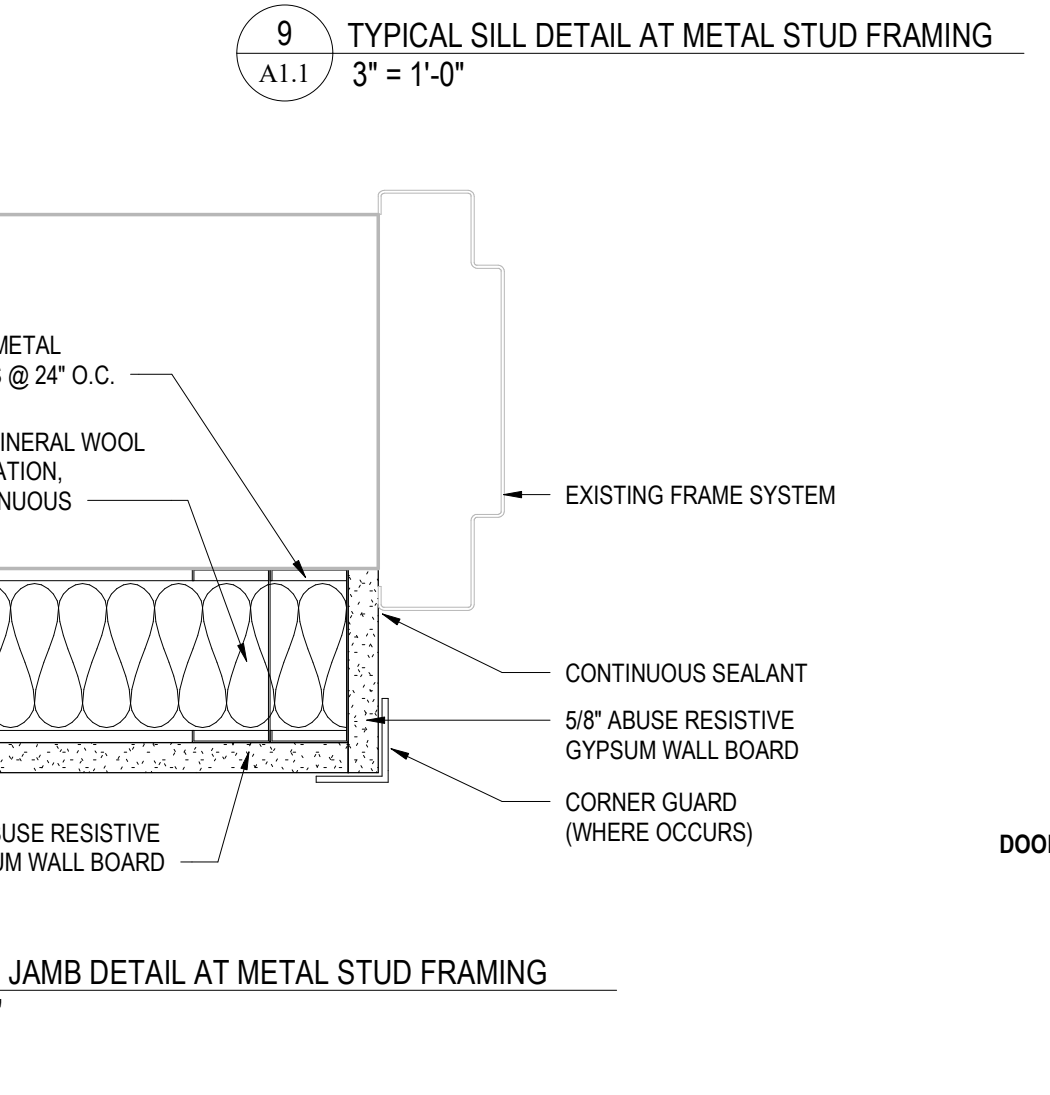
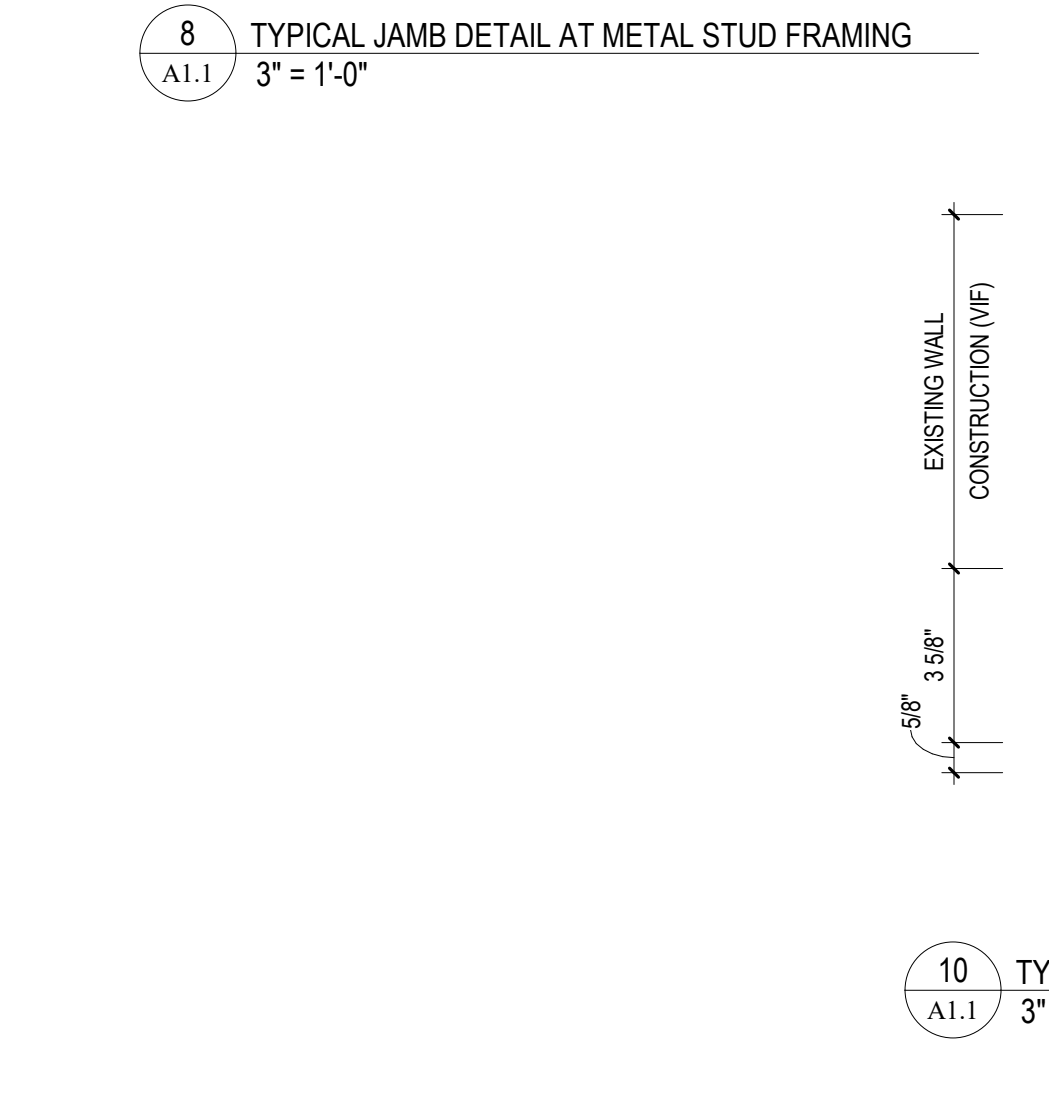
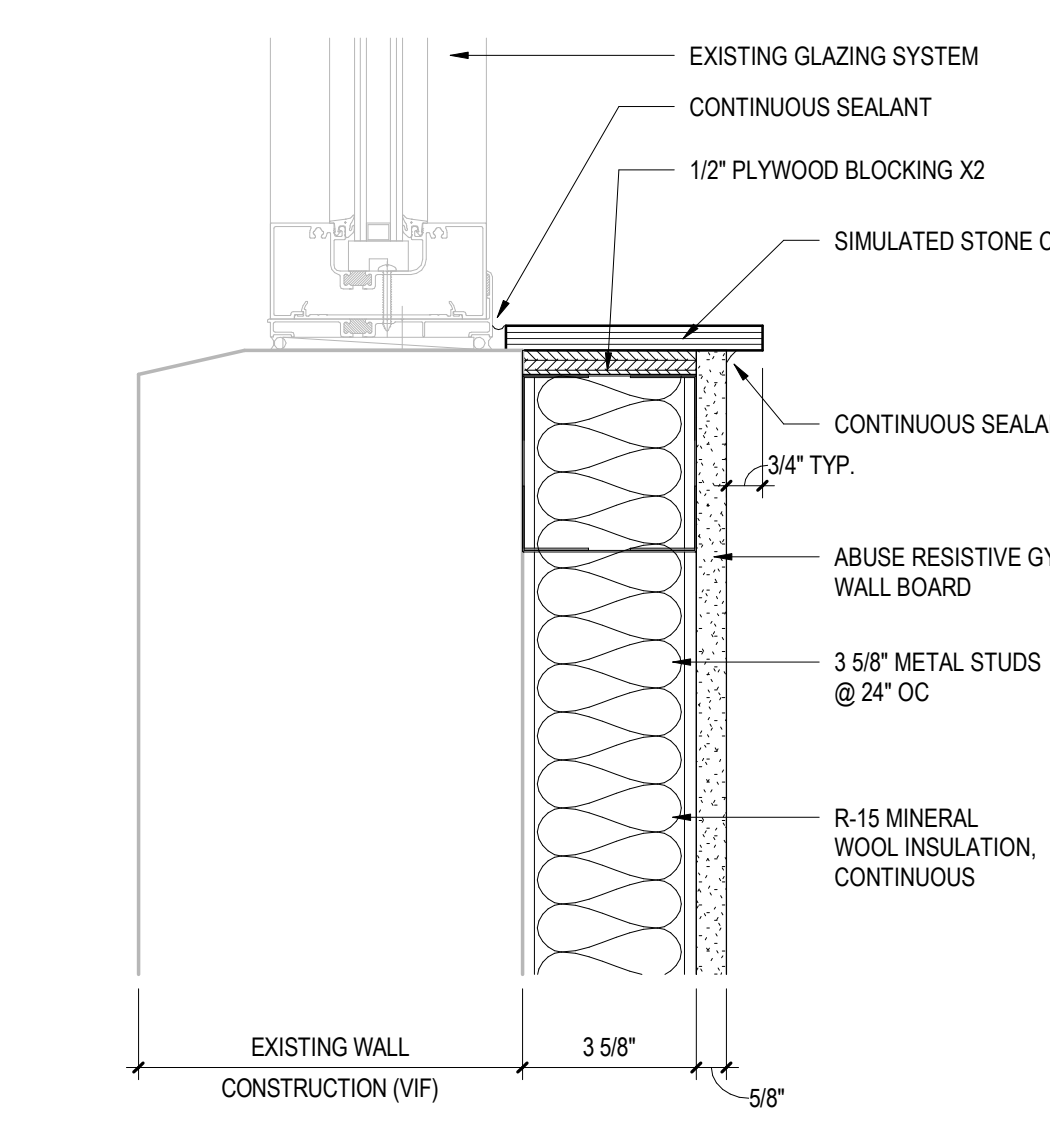
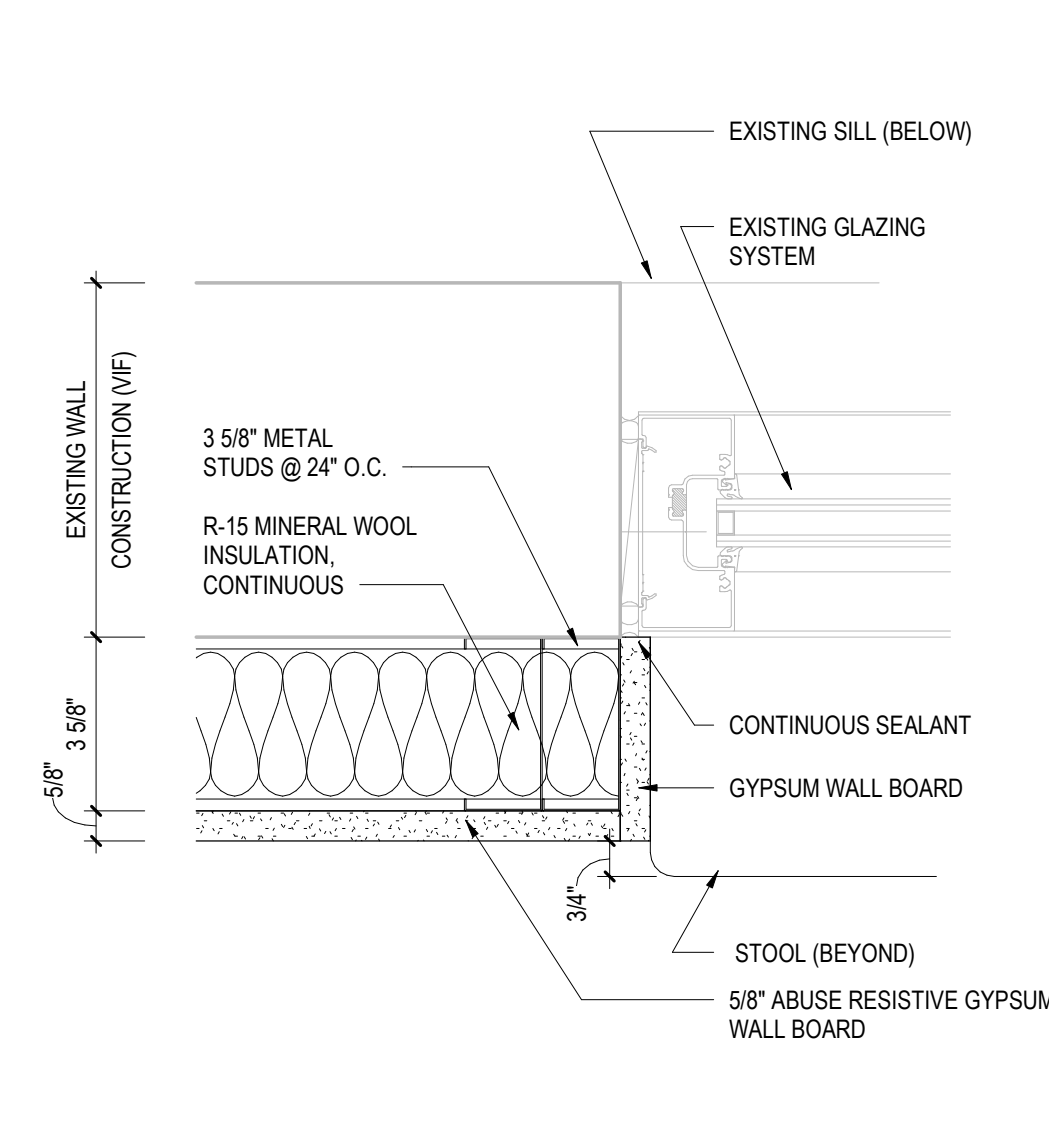
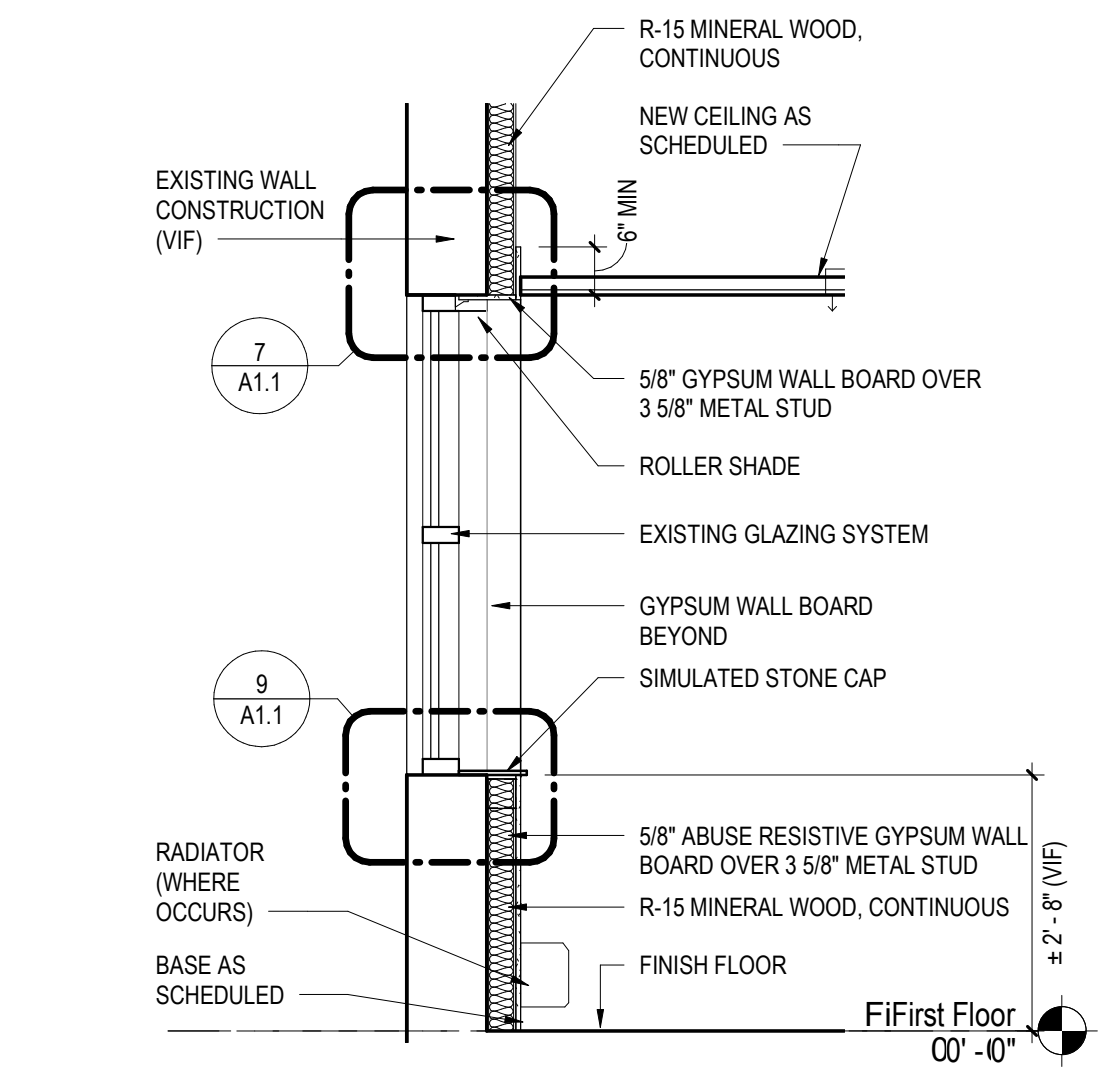
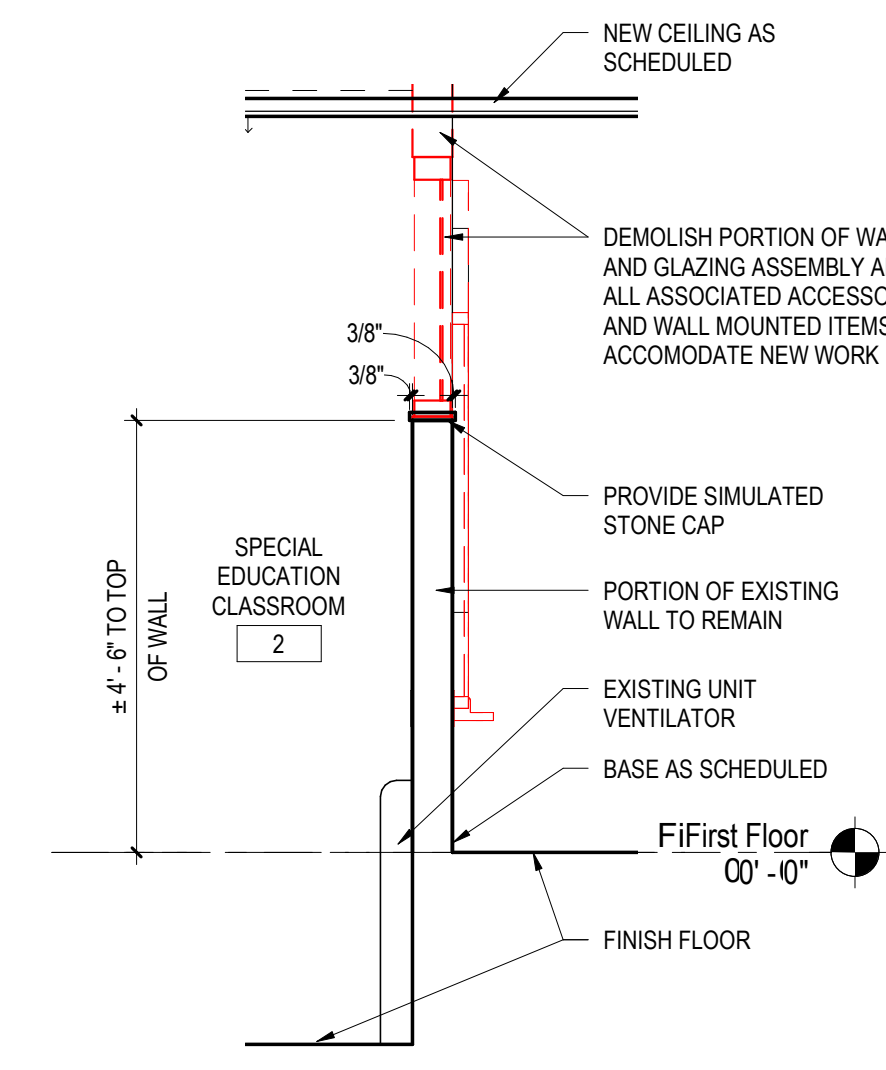
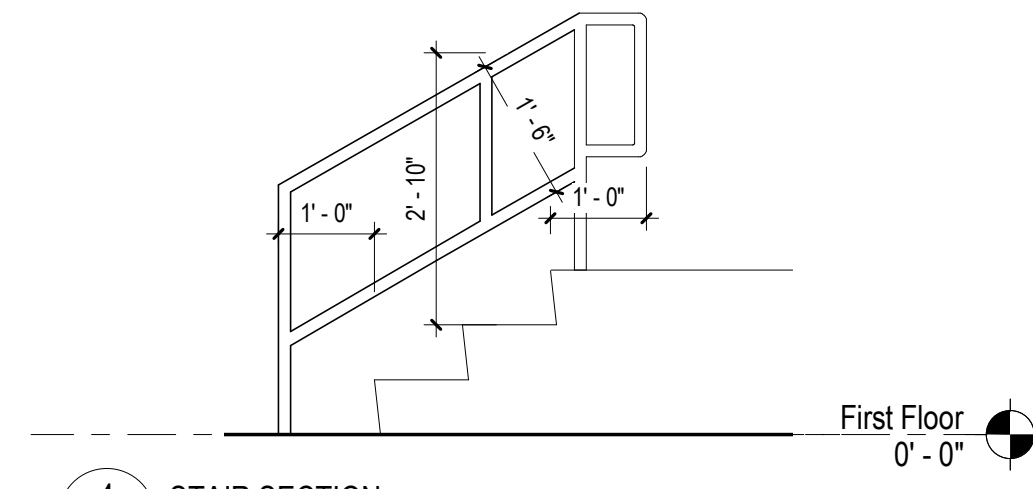
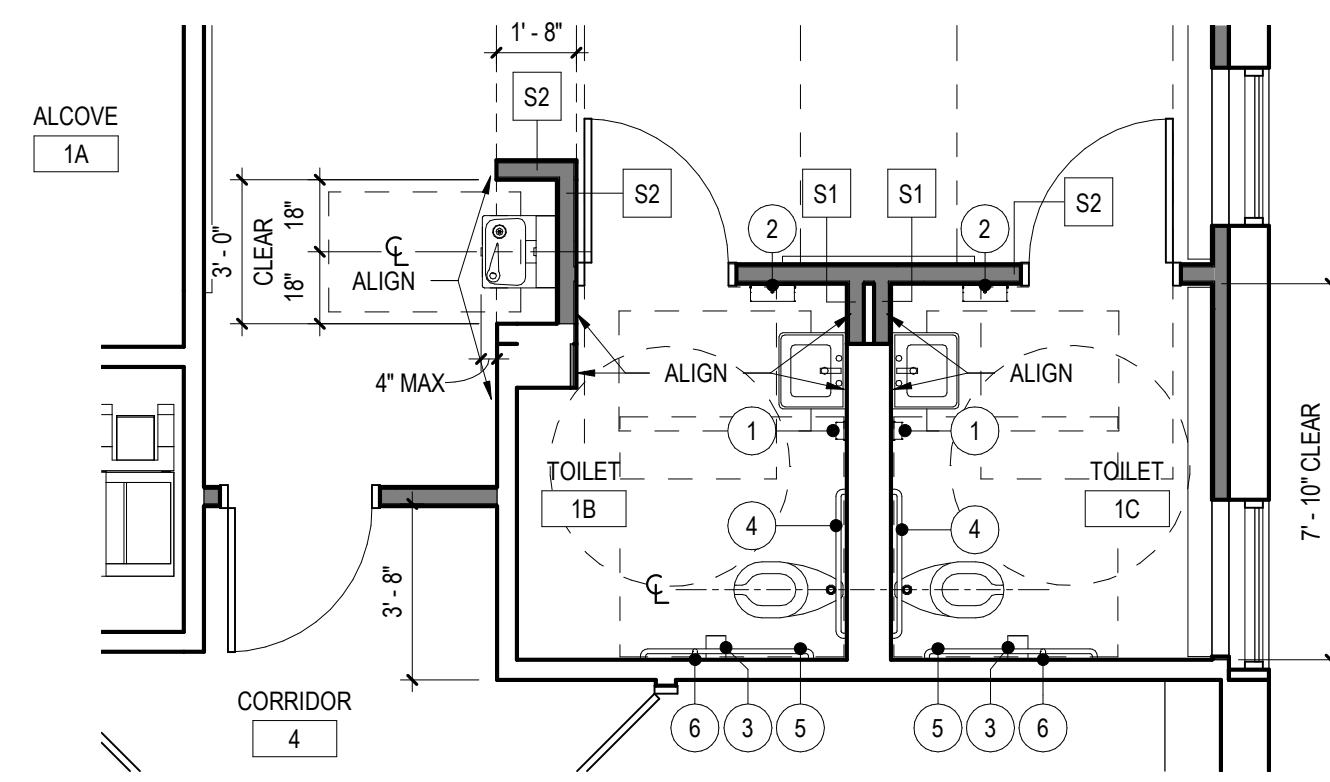
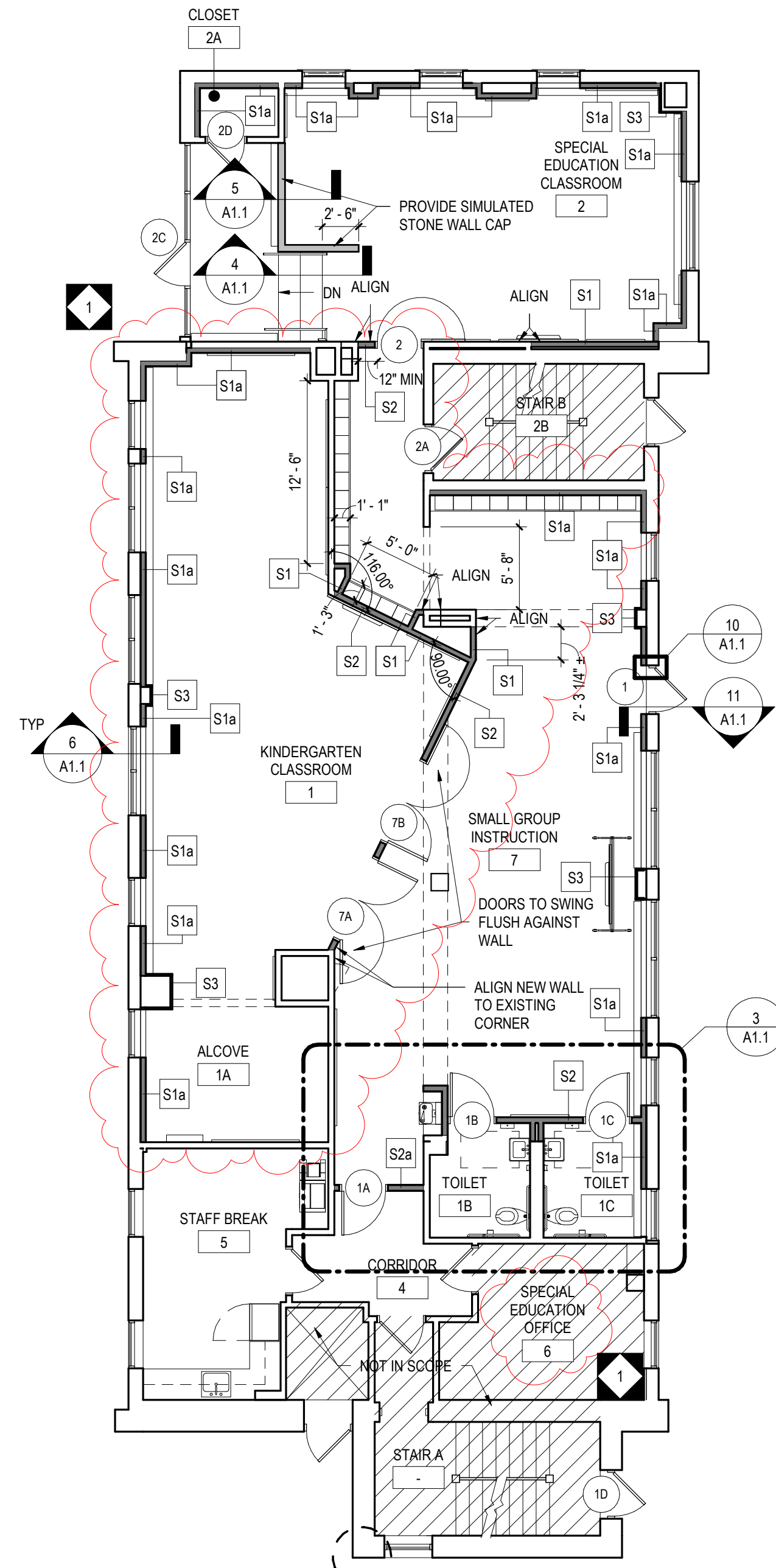
PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**OVERALL THIRD FLOOR DEMOLITION PLAN**

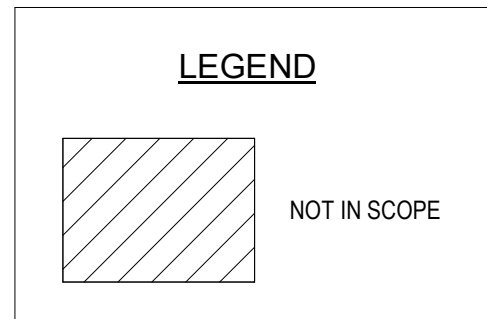
LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY
B-028C	OF 2019 / 20
B-030C	OF 2019 / 20
DRAWING NO.	D1.3



TOILET ACCESSORY SCHEDULE				
No.	DESCRIPTION	MOUNTING	MANUFACTURER	MODEL
1	SOAP DISPENSER	44" MAXIMUM AFF TO PUSH BUTTON	KIMBERLY-CLARK - SDP SUPPLIED & GC INSTALLED	32145
2	SURFACE MOUNTED PAPER TOWEL DISPENSER	48" MAXIMUM TO OUTLET OF DISPENSER	KIMBERLY-CLARK - GC SUPPLIED & INSTALLED	29734
3	SURFACE MOUNTED TOILET PAPER DISPENSER	TISSUE ACCESS @ 19" MIN AFF	KIMBERLY-CLARK - GC SUPPLIED & INSTALLED	09507
4	36" GRAB BAR (HORIZONTAL)	33" MIN - 36" MAX AFF TO TOP OF GRIPPING SURFACE	BOBRICK	B-5506 x 36
5	42" GRAB BAR (HORIZONTAL)	33" MIN - 36" MAX AFF TO TOP OF GRIPPING SURFACE	BOBRICK	B-5506 x 42
6	18" GRAB BAR (VERTICAL)	39" MIN - 41" MAX AFF TO BOTTOM OF GRAB BAR	BOBRICK	B-5506 x 18



- GENERAL NOTES:**
- REFER TO SHEET CS 2 FOR ADDITIONAL INFORMATION.
  - ACCESSIBLE FIXTURES ARE INDICATED WITH THE REQUIRED CLEAR FLOOR SPACE CLEARANCES FOR ALL ACCESSIBLE ROUTES & MANEUVERING CLEARANCES.
  - PLUMBING FIXTURE ROUGH-IN DIMENSIONS & TOILET PARTITION LAYOUT DIMENSIONS ARE FROM THE WALL FINISH MATERIAL.
  - PROVIDE WOOD BLOCKING IN STUD WALLS FOR ALL TOILET ACCESSORIES.
  - TOILET PARTITION DIMENSIONS ARE TO THE PANEL CENTERLINE UNLESS NOTED OTHERWISE. MINIMUM CLEAR DIMENSIONS MUST BE PROVIDED WHERE NOTED.
  - COORDINATE ALL WALL FINISHES WITH THE ROOM FINISH SCHEDULE.
  - CONTRACTOR TO CONFIRM WITH THE OWNER'S REPRESENTATIVE THE LOCATION OF ALL SURFACE-MOUNTED TOILET ROOM ACCESSORIES PRIOR TO INSTALLATION.
  - COORDINATE LOCATION OF MEP EQUIPMENT, DEVICES, OUTLET BOXES, ETC. WITH OTHER EQUIPMENT AND FINISH SCHEDULE PRIOR TO INSTALLATION.
  - UNLESS NOTED OTHERWISE, ALL FLOOR DRAINS SHALL BE SET 1/4" MAXIMUM BELOW FINISH FLOOR. DISH FINISH FLOOR A MINIMUM OF 24" RADIUS TO TOP OF FLOOR DRAIN. REFER TO PLUMBING DRAWINGS.
  - REFER TO 14 DRAWINGS FOR ADDITIONAL BUILT-IN CASEWORK DOOR HARDWARE LOCATION AND INFORMATION.



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**100% DESIGN SUBMISSION**  
1/22/2020

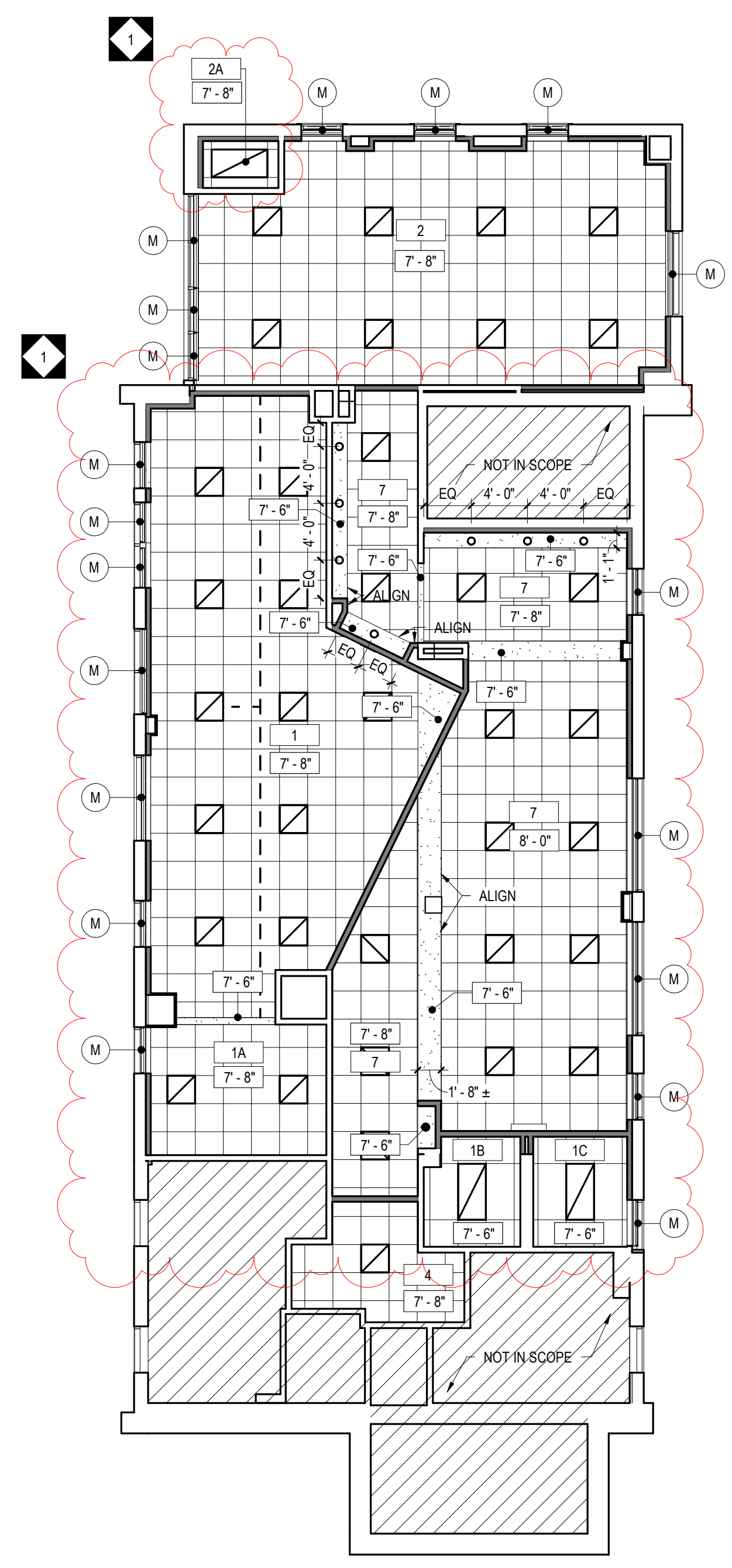
NO.	DATE	REVISION
1	3/5/2020	ADDENDUM # 1

SCHOOL & LOCATION  
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PHILADELPHIA, PA 19151-3625

PROJECT TITLE  
**CLASSROOM MODERNIZATION**  
DRAWING TITLE  
**OVERALL FIRST FLOOR PLAN**

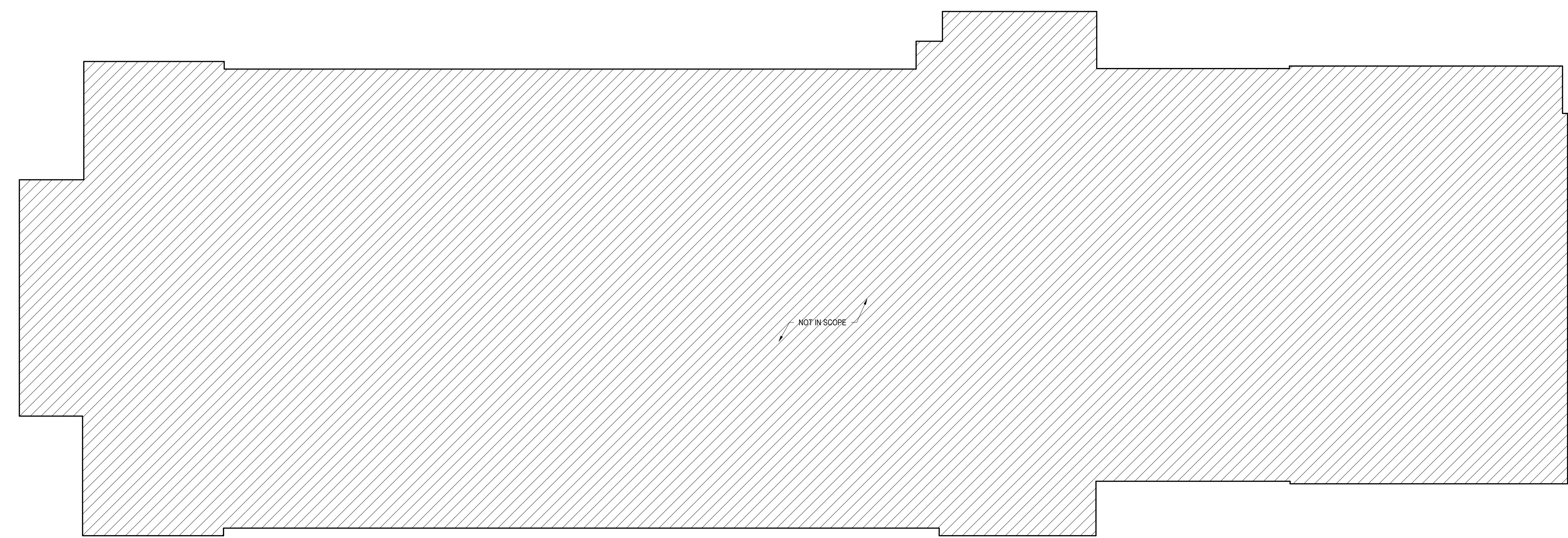
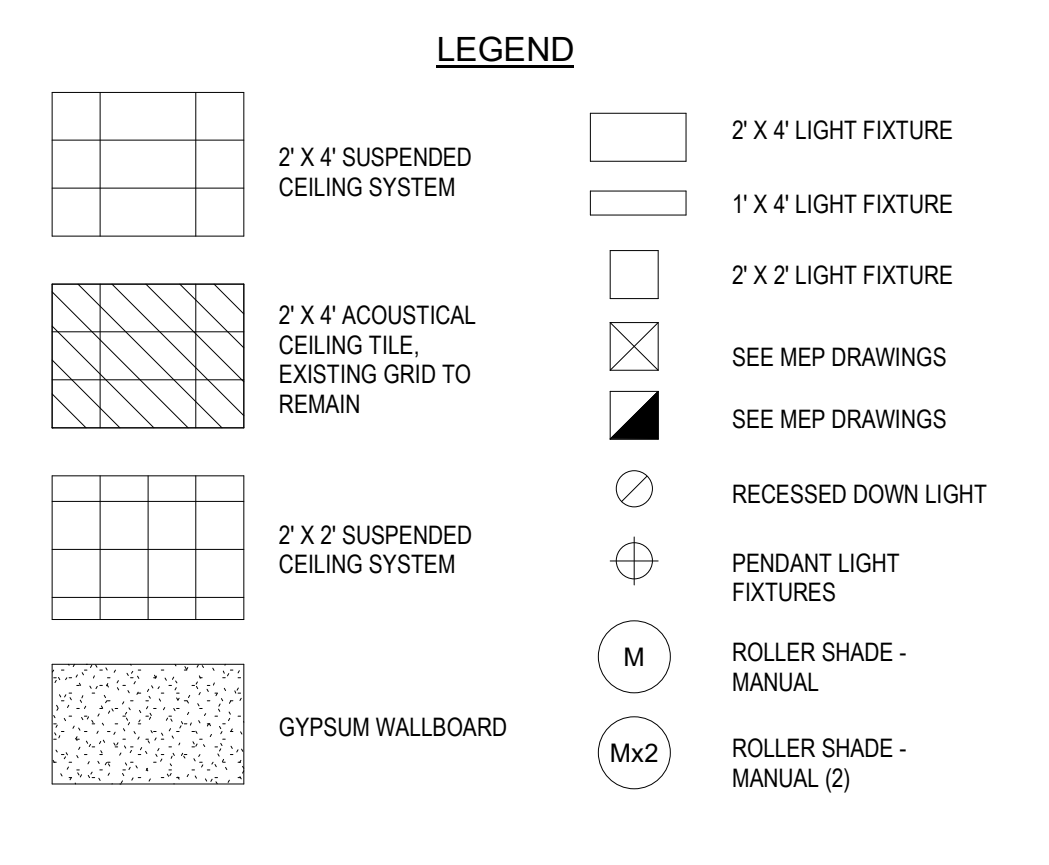
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B-028C OF 2019 / 20	B-030C OF 2019 / 20
DRAWING NO. <b>A1.1</b>	



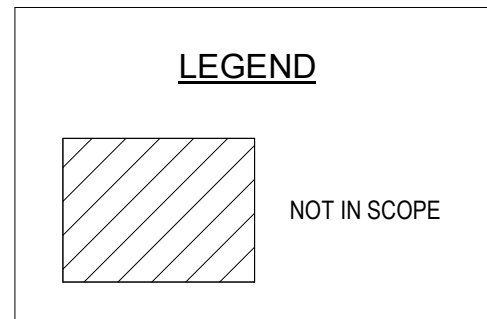


**REFLECTED CEILING PLAN GENERAL NOTES:**

- UNLESS NOTED OTHERWISE, GYPSUM BULKHEADS TO BE 3/8" METAL STUDS AT 16" O/C WITH 5/8" GWB EACH SIDE, EXTENDING MIN. 1" BELOW ADJACENT CEILING.
- CEILING GRID SHALL BE COORDINATED WITH MEP EQUIPMENT AND DEVICES.
- UNLESS NOTED OTHERWISE, ALL VISIBLE STRUCTURAL STEEL, ROOF/FLOOR DECK, DUCTWORK, PIPING, CONDUIT, HANGER WIRES, ETC. AT EXPOSED LOCATIONS OR ABOVE CEILING CLOUDS SHALL BE PAINTED.
- REFER TO ROOM FINISH SCHEDULE FOR CEILING TYPES.
- ALL VISIBLE HANGER WIRES, STRUCTURE AND BRACING AT EXPOSED CEILING GRID OR CEILING CLOUD LOCATIONS SHALL BE INSTALLED PLUMB AND LEVEL. PAINT ALL TO MATCH ADJACENT SURFACES.
- FOR WINDOWS THAT REQUIRE TWO OR MORE ROLLER SHADES, EACH ROLLER SHADE SHALL TERMINATE AT THE CENTER OF THE WINDOW MULLION. REFER TO HOLLOW METAL AND ALUMINUM FRAME ELEVATIONS FOR DIMENSIONS AND WINDOW MULLION DESIGN AND ROLLER SHADE BRAKES. VERIFY IN FIELD FOR MANUFACTURING OR INSTALLATION OF ANY PARTS.
- REFER TO SHEET CS.2 FOR ADDITIONAL INFORMATION.



1 OVERALL FIRST FLOOR REFLECTED CEILING PLAN  
1/8" = 1'-0"



JEFFREY STRAUB  
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**100% DESIGN SUBMISSION**  
1/22/2020

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1	3/5/2020	ADDENDUM # 1
NO.	DATE	REVISION

SCHOOL & LOCATION  
**OVERBROOK EDUCATIONAL CENTER**  
MAILING ADDRESS: 6722  
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PROJECT TITLE  
**CLASSROOM MODERNIZATION**

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

LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY
B-028C	OF 2019 / 20
B-030C	OF 2019 / 20
DRAWING NO.	
<b>A2.1</b>	



SIGNAGE SCHEDULE - MAIN BUILDING											
ROOM#	ORIGINAL ARCHITECTURAL ROOM NAME	ROOM#	SIGN TO READ	SIGN TYPE				DIRECTIONAL ARROW		QTY	REMARKS
				TYPE	ADA	FEMALE	MALE	TRANSGENDER	LEFT ARROW		
Second Floor											
208	3RD GRADE CLASSROOM	208	--	1A						1	1A AT DOOR #208
210	SPECIAL EDUCATION	210	--	1A						1	1A AT DOOR #210

SIGNAGE SCHEDULE - ANNEX											
ROOM#	ORIGINAL ARCHITECTURAL ROOM NAME	ROOM#	SIGN TO READ	SIGN TYPE				DIRECTIONAL ARROW		QTY	REMARKS
				TYPE	ADA	FEMALE	MALE	TRANSGENDER	LEFT ARROW		
First Floor											
1	KINDERGARTEN CLASSROOM	1	--	1A						1	1A AT DOOR #7A
1A	ALCOVE	--	--							0	
1B	TOILET	--	TOILET	2A		•	•			1	2A AT DOOR #1B
1C	TOILET	--	TOILET	2A		•	•			1	2A AT DOOR #1C
2	SPECIAL EDUCATION CLASSROOM	2	--	1A						1	1A AT DOOR #2
2A	CLOSET	--	--							0	
4	CORRIDOR	--	--							0	
5	STAFF BREAK	5	--	1A						1	1A AT ROOM #5
6	SPECIAL EDUCATION OFFICE	6	--	1A						1	1A AT ROOM #6
7	SMALL GROUP INSTRUCTION	7	--	1A						1	1A AT OPENING
Second Floor											
20	CORRIDOR	--	--							0	
22	1ST GRADE CLASSROOM	22/23	--	1A						1	1A AT DOOR #22
23	1ST GRADE CLASSROOM	--	--							0	
Third Floor											
32	SECOND GRADE CLASSROOM	--	--							0	
33	SECOND GRADE CLASSROOM	32/33	--	1A						1	1A AT DOOR #32
34	CORRIDOR	--	--							0	

**A101**  
NAME  
BRAILLE (NUMBER & NAME)

TYPE 1A | SIZE: 8"x4"  
NOT TO SCALE

RESTROOM  
BRAILLE

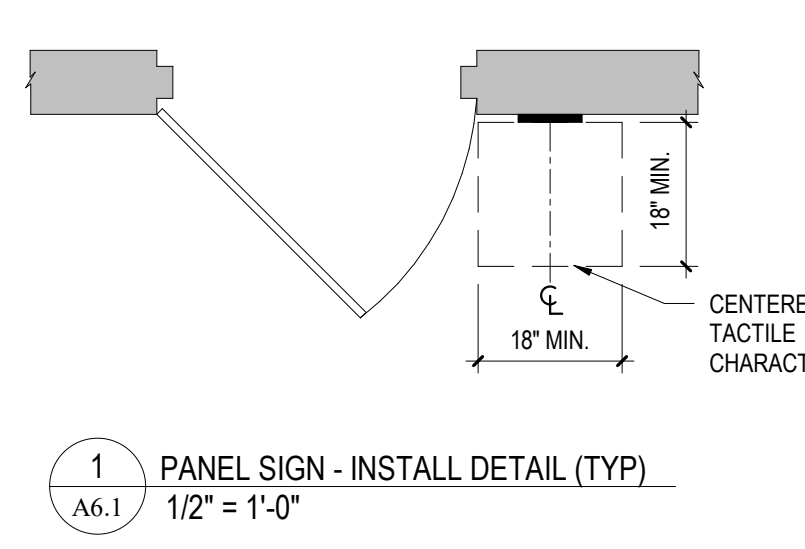
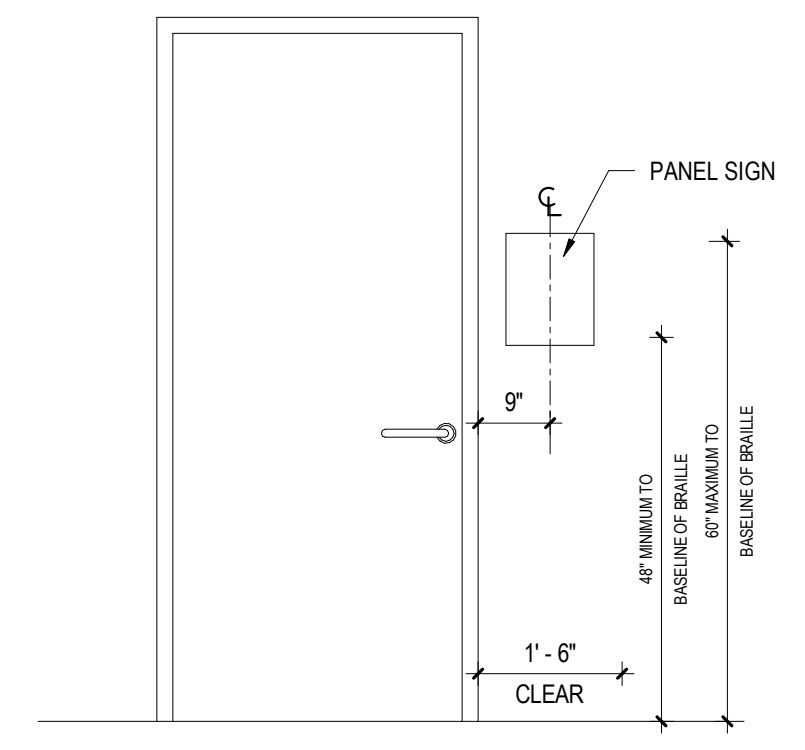
TYPE 2A | SIZE: 8"x10"  
NOT TO SCALE

ACCESSIBLE ENTRANCE  
BRAILLE

TYPE 4B | SIZE: 8"x10"  
NOT TO SCALE

DO NOT DRINK  
BRAILLE

TYPE 4C | SIZE: 8"x10"  
NOT TO SCALE



ROOM FINISH SCHEDULE - MAIN BUILDING											
NUMBER	NAME	COLOR SCHEME	FLOOR	BASE	WALLS			CEILING FINISH	REMARKS		
					WALL FINISH	WAINSCOT FINISH	HEIGHT				
Second Floor											
208	3RD GRADE CLASSROOM	D	ETR	ETR	PNT			ACT/PNT	R53, R76, R77		
210	SPECIAL EDUCATION	B	ETR	ETR	PNT			ACT/PNT	R53, R76, R77		

ROOM FINISH SCHEDULE - ANNEX											
NUMBER	NAME	COLOR SCHEME	FLOOR	BASE	WALLS			CEILING FINISH	REMARKS		
					WALL FINISH	WAINSCOT FINISH	HEIGHT				
First Floor											
1	KINDERGARTEN CLASSROOM	A	VCT	VB	PNT			ACT2/PNT	R53, R77		
1A	ALCOVE	A	VCT	VB	PNT			ACT2/PNT			
1B	TOILET	G	PT	CT	EPX1	CT	7'-0"	ACT	R52		
1C	TOILET	G	PT	CT	EPX1	CT	7'-0"	ACT	R52		
2	SPECIAL EDUCATION CLASSROOM	B	VCT/RBR3/ETR	VB/ETR	PNT			ACT2	R1, R53		
2A	CLOSET	B	ETR	RB/ETR	PNT			ACT			
4	CORRIDOR	A	VCT	VB	PNT			ACT			
5	STAFF BREAK	**	ETR	ETR	PNT/ETR			ETR			
6	SPECIAL EDUCATION OFFICE	--	ETR	ETR	ETR			ETR			
7	SMALL GROUP INSTRUCTION	A	VCT	VB	PNT			ACT2/PNT	R53, R77		
Second Floor											
20	CORRIDOR	B	VCT	VB	PNT			ACT			
22	1ST GRADE CLASSROOM	B	VCT	VB	PNT			ACT	R53		
23	1ST GRADE CLASSROOM	B	VCT	VB	PNT			ACT	R53		
Third Floor											
32	SECOND GRADE CLASSROOM	C	VCT	VB	PNT			ACT	R53		
33	SECOND GRADE CLASSROOM	C	VCT	VB	PNT			ACT	R53		
34	CORRIDOR	C	VCT	VB	PNT			ACT			

### COLOR SCHEME SCHEDULE

**COLOR SCHEME A - KINDERGARTEN CLASSROOMS-ORANGE & GREEN**

- WALL PAINT: SHERWIN WILLIAMS, NO. SW7044 AMAZING GRAY
- ACCENT PAINT 'A' STORAGE: SHERWIN WILLIAMS, NO. SW9171 FELTED WOOL
- ACCENT PAINT 'B' TEACHING WALL: SHERWIN WILLIAMS, NO. SW6880 OSAGE ORANGE
- VINYL COMPOSITION TILE, FIELD: ARMSTRONG, NO. 51803 PEARL WHITE
- VINYL COMPOSITION TILE, ACCENT '1': ARMSTRONG, NO. 51866 LITTLE GREEN APPLE
- VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 51947 BASIL GREEN
- VERTICAL CASEWORK WOOD FINISH: **COLOR TO BE SELECTED BY OWNER.**
- VINYL BASE: JOHNSONITE, NO. 469 MYSTIFY

SEE ENLARGED FLOOR PLANS FOR FLOOR PATTERNS AND ACCENT WALL COLOR LOCATIONS.

**COLOR SCHEME B - FIRST GRADE & SPECIAL EDUCATION CLASSROOMS-BLUE & RED**

- WALL PAINT: SHERWIN WILLIAMS, NO. SW7044 AMAZING GRAY
- ACCENT PAINT 'A' STORAGE: SHERWIN WILLIAMS, NO. SW9171 FELTED WOOL
- ACCENT PAINT 'B' TEACHING WALL: SHERWIN WILLIAMS, NO. SW6765 SPA
- VINYL COMPOSITION TILE, FIELD: ARMSTRONG, NO. 51803 PEARL WHITE
- VINYL COMPOSITION TILE, ACCENT '1': ARMSTRONG, NO. 51927 FIELD GRAY
- VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 57509 LEMON LICK
- VERTICAL CASEWORK WOOD FINISH: **COLOR TO BE SELECTED BY OWNER.**
- VINYL BASE: JOHNSONITE, NO. 469 MYSTIFY

SEE ENLARGED FLOOR PLANS FOR FLOOR PATTERNS AND ACCENT WALL COLOR LOCATIONS.

**COLOR SCHEME C - SECOND GRADE CLASSROOMS-BLUE & ORANGE**

- WALL PAINT: SHERWIN WILLIAMS, NO. SW6233 SAMOVAR SILVER
- ACCENT PAINT 'A' STORAGE: SHERWIN WILLIAMS, NO. SW9143 CADET
- ACCENT PAINT 'B' TEACHING WALL: SHERWIN WILLIAMS, NO. SW6767 AQUARIUM
- VINYL COMPOSITION TILE, FIELD: ARMSTRONG, NO. 51860 SOFT COOL GRAY
- VINYL COMPOSITION TILE, ACCENT '1': ARMSTRONG, NO. 51927 FIELD GRAY
- VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 57516 SCREAMIN' PUMPKIN
- VERTICAL CASEWORK WOOD FINISH: **COLOR TO BE SELECTED BY OWNER.**
- VINYL BASE: JOHNSONITE, NO. 262 DRIZZLE

SEE ENLARGED FLOOR PLANS FOR FLOOR PATTERNS AND ACCENT WALL COLOR LOCATIONS.

**COLOR SCHEME D - THIRD GRADE CLASSROOMS-BLUE & YELLOW**

- WALL PAINT: SHERWIN WILLIAMS, NO. SW6233 SAMOVAR SILVER
- ACCENT PAINT 'A' STORAGE: SHERWIN WILLIAMS, NO. SW9143 CADET
- ACCENT PAINT 'B' TEACHING WALL: SHERWIN WILLIAMS, NO. SW6903 CHEERFUL
- VINYL COMPOSITION TILE, FIELD: ARMSTRONG, NO. 51860 SOFT COOL GRAY
- VINYL COMPOSITION TILE, ACCENT '1': ARMSTRONG, NO. 57517 BODACIOUS BLUE
- VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 59230 VICTORIA BLUE
- VERTICAL CASEWORK WOOD FINISH: **COLOR TO BE SELECTED BY OWNER.**
- VINYL BASE: JOHNSONITE, NO. 262 DRIZZLE

SEE ENLARGED FLOOR PLANS FOR FLOOR PATTERNS AND ACCENT WALL COLOR LOCATIONS.

**COLOR SCHEME E**  
NOT USED

**COLOR SCHEME F**  
NOT USED

**COLOR SCHEME G**  
BATHROOMS

- WALL PAINT: SHERWIN WILLIAMS, NO. SW7029 AGREEABLE GRAY
- PORCELAIN FLOOR TILE: DALTILE, EVER PORCELAIN, COLOR: EV03 ARCTIC UNPOLISHED
- CERAMIC WALL TILE, FIELD: DALTILE, SEMI-GLOSS GLAZED TILE, Q182 SUEDE GRAY
- CERAMIC WALL TILE, ACCENT '1': DALTILE, SEMI-GLOSS GLAZED TILE, Q151 TOTALLY TANGERINE
- CERAMIC WALL TILE, ACCENT '2': DALTILE, SEMI-GLOSS GLAZED TILE, Q097 ORANGE BURST
- GROUT COLOR FOR WALLS: MAPEI, COLOR: 00 WHITE
- GROUT COLOR FOR FLOORS: MAPEI, COLOR: 27 SILVER

SEE ENLARGED PLANS FOR ACCENT WAINSCOT COLOR LOCATIONS.

**GENERAL NOTES:**  
THE FOLLOWING MATERIALS ARE TO BE APPLIED AT ALL LOCATIONS WHERE SPECIFIED UNLESS OTHERWISE NOTED.

- TACK BOARDS: CLARIDGE FABRICORK, KL498 WINTHROPE
- ROLLER WINDOW SHADES: MERMET, GREENSCREEN REVIVE, 5% OPEN, COLOR: 0.22 STONE
- SOLID SURFACE COUNTERTOP & SIDE/BACK SPLASH: CORIAN, COLOR: DEEP CAVIAR
- CEILING PAINT: SHERWIN WILLIAMS, NO. SW7006 EXTRA WHITE
- PREVIOUSLY PAINTED WOOD COMPONENTS: DOORS, TRIM, BASE, CHAIR RAIL, CROWN MOULDING, VISUAL DISPLAY TRIM, WINDOW SILLS: SHERWIN WILLIAMS, NO. SW7068 GRIZZLE GRAY
- PREVIOUSLY STAINED WOOD COMPONENTS: WOOD DOORS, WOOD TRIM, WOOD BASE, VISUAL DISPLAY BOARD TRIM, ETC.; **COLOR TO MATCH EXISTING AND FIELD VERIFIED BY ARCHITECT/OWNER.**
- NOT USED.
- PREVIOUSLY PAINTED METAL TIERED COAT HOOKS & PREVIOUSLY PAINTED STUDENT CUBBIES SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR.
- RUBBER TILE FLOOR (RBR3): JOHNSONITE, NO. 469 MYSTIFY

- NOTES:**
- IF ROOM IS NOT INDICATED TO RECEIVE A FLOOR PATTERN, FIELD COLOR VCT SHALL BE USED.
  - VCT ORIENTATION SHALL BE MATCHED TO EXISTING ADJACENT ROOM.
  - ARCHITECT REQUIRES AN ON-SITE MOCK-UP FOR EACH PAINT COLOR. PROVIDE A MINIMUM 8'x10' AREA. A DOOR FRAME. CONTRACTOR MUST RECEIVE ARCHITECT'S APPROVAL BEFORE ORDERING.
  - VERTICAL AND HORIZONTAL PLANES OF SOFFIT AND BULKHEAD SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR, UNLESS OTHERWISE NOTED.
  - COORDINATE ROOM FINISH SCHEDULE AND COLOR SCHEME SCHEDULE WITH DEMOLITION NOTES.
  - ALL EXPOSED MECHANICAL, PLUMBING, & HVAC COMPONENTS SHALL BE PAINTED THE ADJACENT WALL COLOR. ITEMS INCLUDING BUT NOT LIMITED TO: PIPING, CONDUIT, VENTS, LOUVERS, GRILLES, RADIATORS, RADIATOR COVERS, ELECTRICAL PANELS, METAL ACCESS PANELS, METAL LOCKERS SHALL BE PAINTED ADJACENT WALL COLOR.
  - \*ROOMS NOT INDICATED WITH A COLOR SCHEME SHALL RECEIVE FINISHES TO MATCH EXISTING SDP COLOR SCHEME. CONTRACTOR SHALL COORDINATE WITH OWNER.

#### GENERAL NOTE IN REFERENCE TO SIGNAGE DRAWINGS

- INSTALL SIGNS LEVEL, PLUMB, AND AT THE HEIGHT INDICATED, WITH SIGN SURFACES FREE FROM DISTORTION OR OTHER DEFECTS IN APPEARANCE.
- TACTILE CHARACTERS SHALL BE 48 INCHES MINIMUM ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
- WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE ALONGSIDE THE DOOR AT THE LATCH SIDE, WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF, WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THE SIGN SHALL BE TO THE RIGHT OF THE RIGHT HAND DOOR, WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR TO THE RIGHT SIDE OF DOUBLE DOORS. SIGNS SHALL BE ON THE NEAREST ADJACENT WALL.
- SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR AREA 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.
  - EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD OPEN DEVICES.
- GENERAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING NUMBERING FOR ELECTRICAL PANELS.
- IN ADDITION TO THE SIGNAGE SCHEDULE PLEASE PROVIDE THE FOLLOWING SIGN TYPES:
  - SIGN TYPE 4B AT EXTERIOR DOORS: 1 (NO ARROW)
  - SIGN TYPE 4C ABOVE SINKS AT: 1C AND 1B

ROOM FINISH SCHEDULE LEGEND	
FLOOR FINISH	
PT	PORCELAIN TILE
RBR	RUBBER TILE
VCT	VINYL COMPOSITION TILE
FLOOR REMARKS	
R1:	PROVIDE TACTILE-WARNING TILE (RBR3) AT LOCATION AS INDICATED ON FLOOR PATTERN PLANS.
R2-R5:	NOT USED
BASE FINISH	
CT	CERAMIC TILE
VB	VINYL
BASE REMARKS	
R26-R50:	NOT USED
WALL FINISH	
CT	CERAMIC TILE
EPX	EPOXY PAINT
PNT	PAINT
WALL REMARKS	
R51:	NOT USED
R52:	SEE INTERIOR ELEVATIONS FOR VARYING WALL MATERIALS.
R53:	PROVIDE ACCENT WALL.
R54-R75:	NOT USED
CEILING FINISH	
ACT	ACOUSTICAL CEILING TILE
EPX	EPOXY PAINT
PNT	PAINTED GYPSUM WALLBOARD/PLASTER
CEILING REMARKS	
R76:	REFER TO DEMOLITION PLANS FOR EXTENT OF WORK.
R77:	SEE REFLECTED CEILING PLANS FOR VARYING CEILING MATERIALS AND HEIGHTS.
R78-R100:	NOT USED
GENERAL NOTES	
1:	REFER TO SPECIFICATIONS FOR DETAILED DESCRIPTION OF FINISH SYSTEM TYPES.
2:	REFER TO WALL TYPES FOR MASONRY LOCATIONS AND DETAILS.
3:	GYPSUM WALLBOARD BULKHEADS AND SOFFITS SHALL BE PAINTED.
4:	ALL HOLLOW METAL DOOR AND FRAMES, INTERIOR AND EXTERIOR, SHALL BE PAINTED.
5:	ALL INTERIOR FERROUS METAL SHALL BE PAINTED INCLUDING INTELS, RAILINGS, GRILLES AND LOUVERS. (DOES NOT INCLUDE FACTORY OR PRE-FINISHED ITEMS)
6:	SEE I4 DRAWINGS FOR MATERIAL TRANSITIONS & FLOOR PATTERN PLANS.
7:	ETR = EXISTING TO REMAIN
8:	EXIST = EXISTING



NO.	DATE	REVISION
1	3/5/2020	ADDENDUM # 1

#### 100% DESIGN SUBMISSION

1/22/2020

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SCHOOL & LOCATION	
<b>OVERBROOK EDUCATIONAL CENTER</b>	
MAILING ADDRESS: 6722 LANSLOWNE AVENUE, PHILADELPHIA, PA 19151	
DEED ADDRESS: 6730-38 LANSLOWNE AVENUE, PHILADELPHIA, PA 19151-3625	

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**ROOM FINISH & SIGNAGE SCHEDULE**

LOCATION NO.	FILE NO.

DRAWN BY	CHECKED BY

B-028C OF 2019 / 20  
B-030C OF 2019 / 20

DRAWING NO.  
**A6.1**







SEAL:



JEFFREY STRAUB  
STATE AND LICENSE NO: RA03662

ARCHITECT

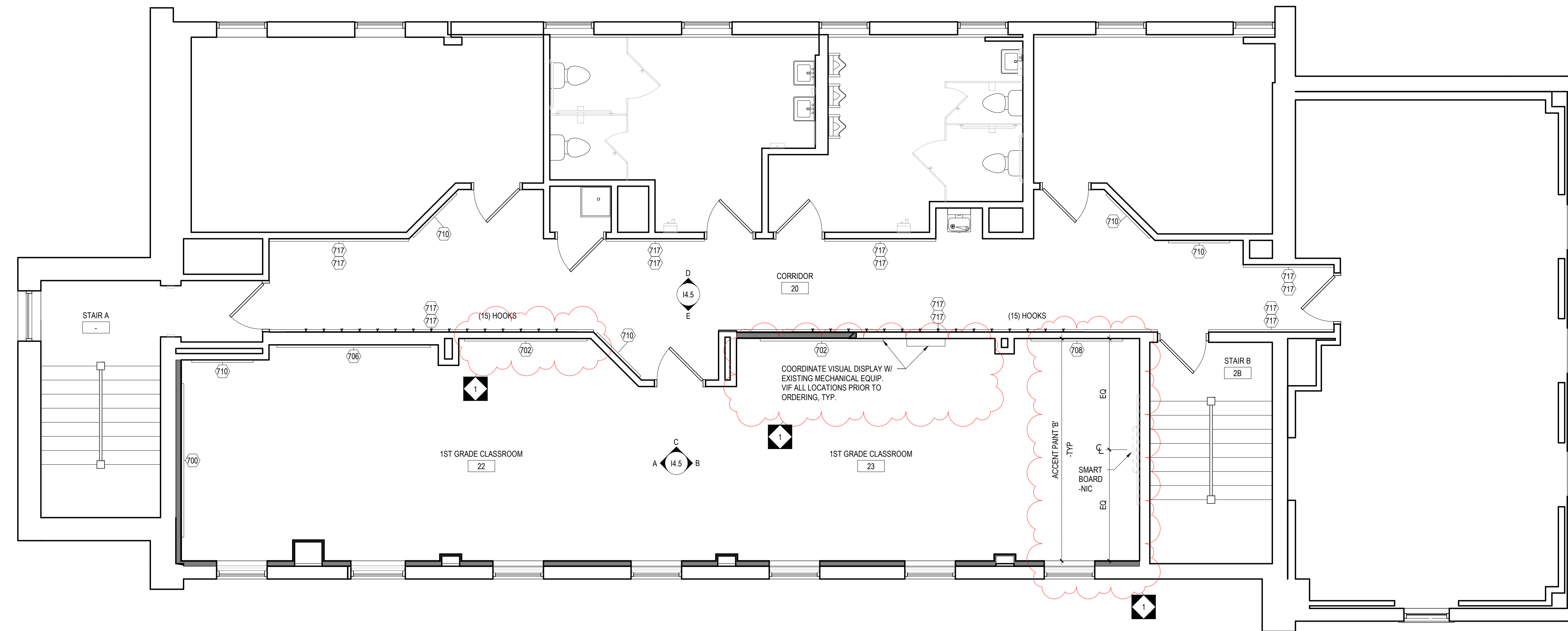
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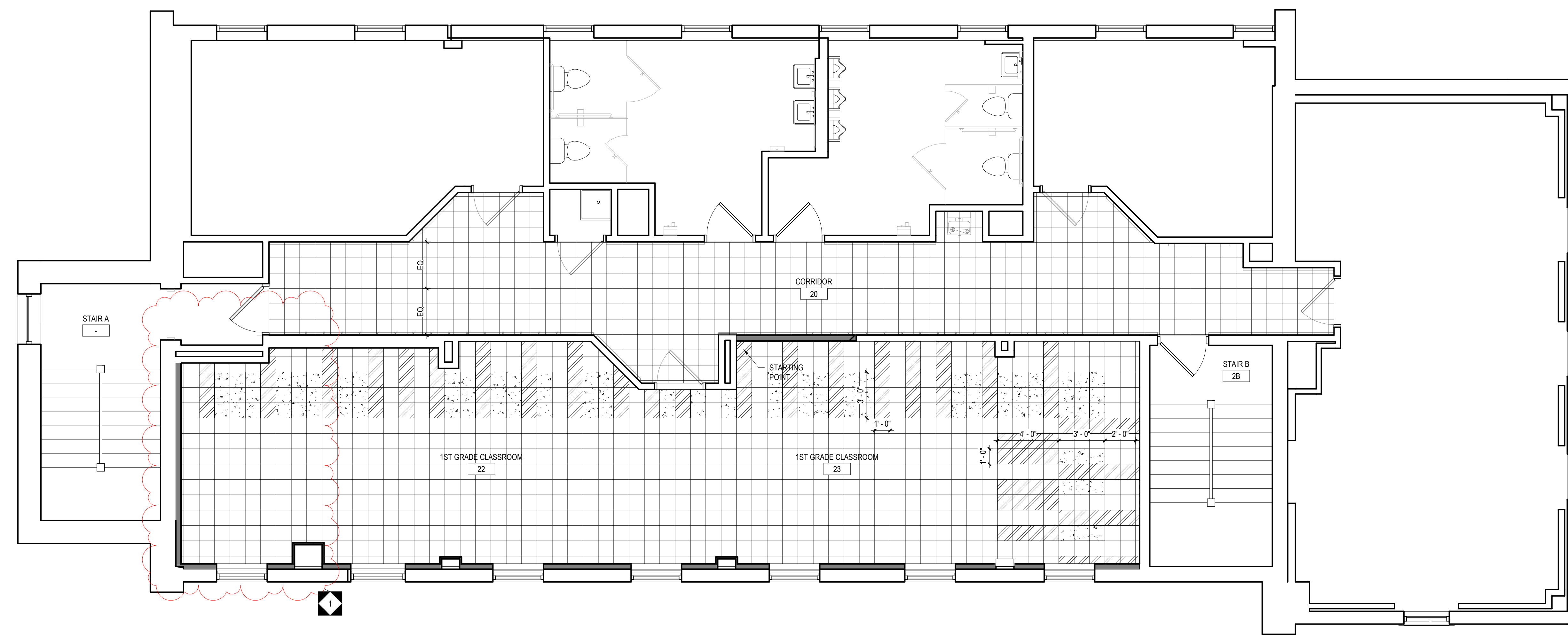


1 ANNEX BUILDING - SECOND FLOOR LARGE SCALE LAYOUTS  
1/4" = 1'-0"

GRADE 1-3 MOUNTING HEIGHT SCHEDULE	
MARKER BOARD	2'-6" AFF TO BOTTOM EDGE
TACK BOARD	2'-6" AFF TO BOTTOM EDGE
WALL CABINETS	SEE TYPICAL SECTION DETAIL
SMART-BOARD	CENTERED ON THE WALL

NOTE: WHERE NEW MARKER BOARD OR TACK BOARD IS BEING MOUNTED NEXT TO OR ON THE SAME WALL AS AN EXISTING TACK BOARD OR MARKER BOARD MATCH EXISTING HEIGHT.

14.3 - GENERAL CASEWORK AND EQUIPMENT SCHEDULE					
NO	DESCRIPTION	MANUFACTURER	MODEL	DIMENSIONS	
700	MARKERBOARD W/ALUMINUM FRAME	SEE SPECIFICATIONS	SEE SPECIFICATIONS	10'-0"W x 4'-0"H	
702	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 4'-0"H	
706	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	10'-0"W x 4'-0"H	
708	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 4'-0"H	
710	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	4'-0"W x 4'-0"H	
717	TACK STRIP	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	WIDTH TO FIT x 2"H	



2 ANNEX BUILDING - SECOND FLOOR PATTERN PLANS  
1/4" = 1'-0"

GENERAL NOTE IN REFERENCE TO ALL FLOOR PATTERN DRAWINGS

- DRAWING IS FOR FLOOR PATTERN USE ONLY.
- CONTRACTOR SHALL PROVIDE TRANSITION STRIPS BETWEEN MATERIALS AS OUTLINED IN DRAWINGS.
- PROVIDE FLASH PATCHING FOR CONTINUOUS TRANSITION OF ADJOINING MATERIAL.

FLOOR PATTERN LEGEND	
[Blank Box]	= FIELD:
[Diagonal Lines]	= ACCENT 1:
[Dotted Pattern]	= ACCENT 2:

FLOOR TRANSITION SCHEDULE	
VCT TO WD	JOHNSONITE NO. SSR-XX-B (1/8")
PT TO VCT	MARBLE
PT TO WD	MARBLE

SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

EXISTING FLOOR TRANSITION SCHEDULE (WHERE OCCURS)	
CT TO WD	MARBLE
CT TO VCT	MARBLE
WD TO WD	WOOD
WD TO SCONC	WOOD
VCT TO VAT	JOHNSONITE NO. SSR-XX-B (1/8")
VCT TO WD	JOHNSONITE NO. SSR-XX-B (1/8")
VCT TO SCONC	JOHNSONITE NO. SSR-XX-B (1/8")

SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

100% DESIGN SUBMISSION  
1/22/2020

NO.	DATE	REVISION
1	3/5/2020	ADDENDUM # 1
2		
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SCHOOL & LOCATION  
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MAILING ADDRESS: 6722  
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PHILADELPHIA, PA 19151-3625

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**LARGE SCALE LAYOUTS & FLOOR PATTERN PLANS - ANNEX SECOND FLOOR**

LOCATION NO. FILE NO.  
DRAWN BY CHECKED BY

B-028C OF 2019 / 20  
B-030C OF 2019 / 20

DRAWING NO.  
**14.3**

SEAL:



J. JEFFREY STRAUB  
STATE AND LICENSE NO: RA03652

ARCHITECT

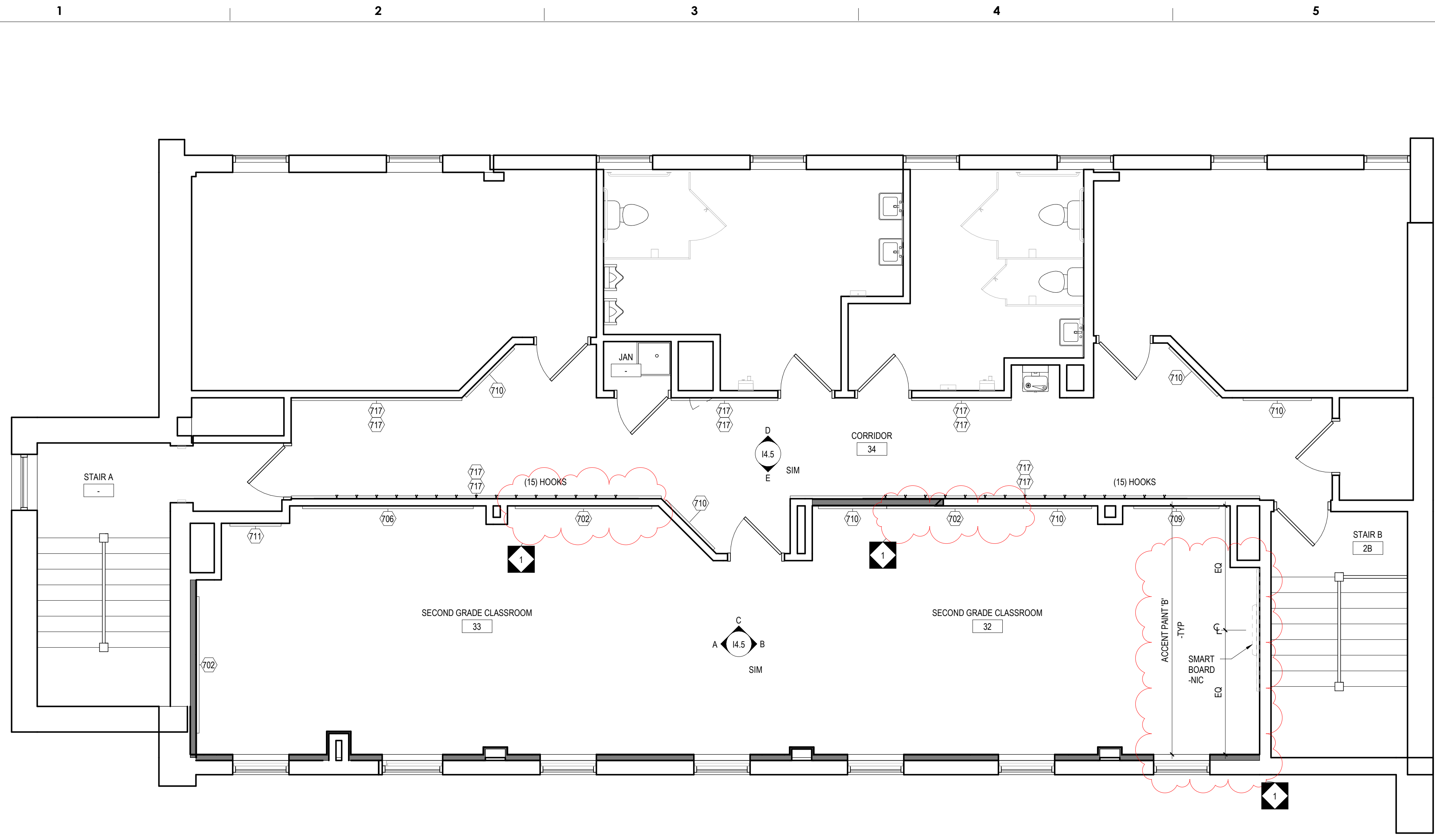
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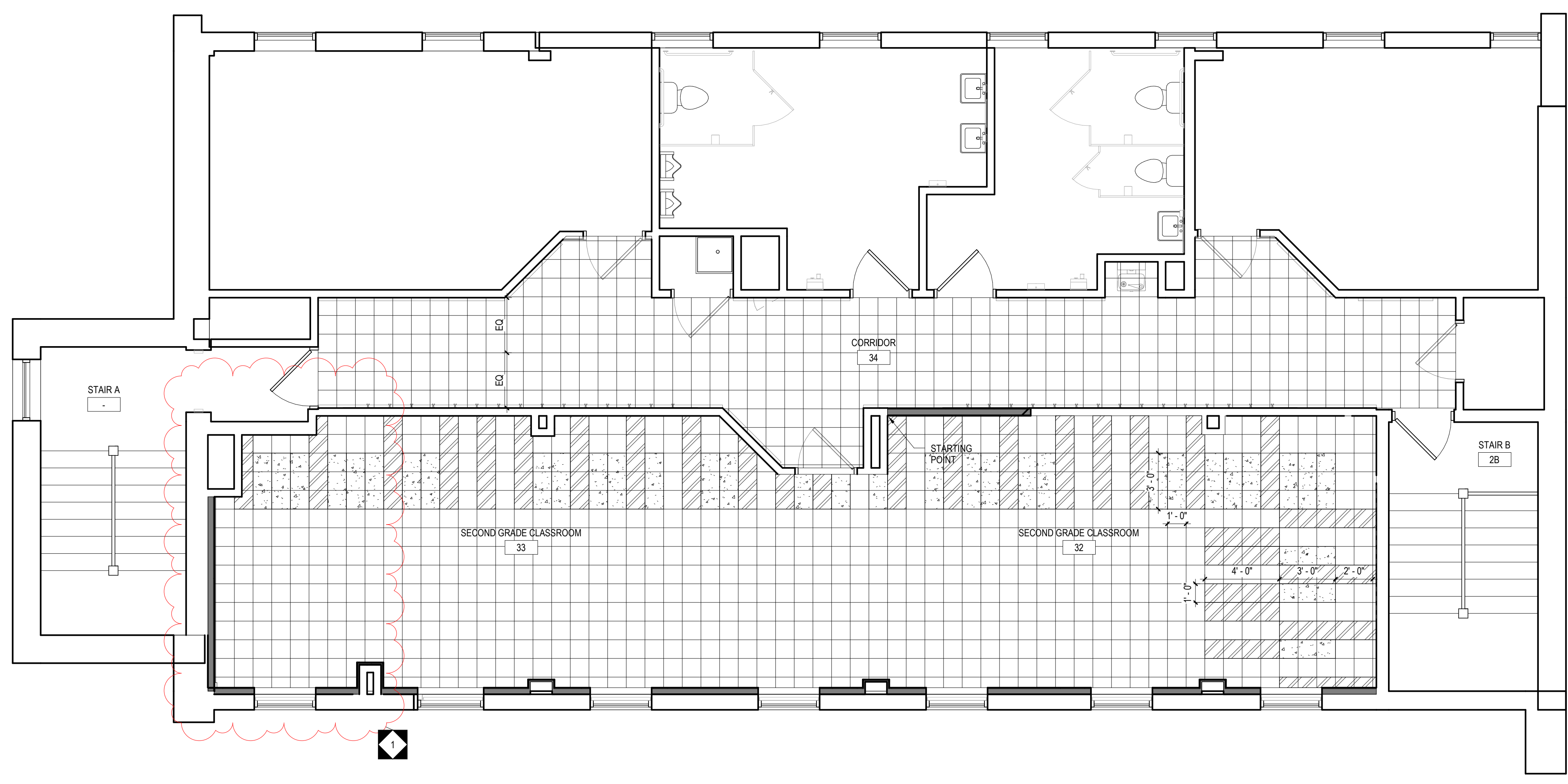


1 ANNEX BUILDING - THIRD FLOOR LARGE SCALE LAYOUTS  
1/4" = 1'-0"

GRADE 1-3 MOUNTING HEIGHT SCHEDULE	
MARKER BOARD	2'-6" AFF TO BOTTOM EDGE
TACK BOARD	2'-6" AFF TO BOTTOM EDGE
WALL CABINETS	SEE TYPICAL SECTION DETAIL
SMART-BOARD	CENTERED ON THE WALL

NOTE: WHERE NEW MARKER BOARD OR TACK BOARD IS BEING MOUNTED NEXT TO OR ON THE SAME WALL AS AN EXISTING TACK BOARD OR MARKER BOARD MATCH EXISTING HEIGHT.

14.4 - GENERAL CASEWORK AND EQUIPMENT SCHEDULE				
NO	DESCRIPTION	MANUFACTURER	MODEL	DIMENSIONS
702	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 4'-0"H
706	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	10'-0"W x 4'-0"H
709	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	5'-0"W x 4'-0"H
710	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	4'-0"W x 4'-0"H
711	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	3'-0"W x 4'-0"H
717	TACK STRIP	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	WIDTH TO FIT x 2"H



2 ANNEX BUILDING - THIRD FLOOR PATTERN PLANS  
1/4" = 1'-0"

GENERAL NOTE IN REFERENCE TO ALL FLOOR PATTERN DRAWINGS

- DRAWING IS FOR FLOOR PATTERN USE ONLY.
- CONTRACTOR SHALL PROVIDE TRANSITION STRIPS BETWEEN MATERIALS AS OUTLINED IN DRAWINGS.
- PROVIDE FLASH PATCHING FOR CONTINUOUS TRANSITION OF ADJOINING MATERIAL.

FLOOR PATTERN LEGEND	
[Blank Box]	= FIELD:
[Diagonal Hatching]	= ACCENT 1:
[Dotted Hatching]	= ACCENT 2:

FLOOR TRANSITION SCHEDULE	
VCT TO WD	JOHNSONITE NO. SSR-XX-B (1/8")
PT TO VCT	MARBLE
PT TO WD	MARBLE

SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

EXISTING FLOOR TRANSITION SCHEDULE (WHERE OCCURS)	
CT TO WD	MARBLE
CT TO VCT	MARBLE
WD TO WD	WOOD
WD TO SCONC	WOOD
VCT TO VAT	JOHNSONITE NO. SSR-XX-B (1/8")
VCT TO WD	JOHNSONITE NO. SSR-XX-B (1/8")
VCT TO SCONC	JOHNSONITE NO. SSR-XX-B (1/8")

SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

100% DESIGN SUBMISSION  
1/22/2020

NO.	DATE	REVISION
1	3/5/2020	ADDENDUM # 1

SCHOOL & LOCATION  
**OVERBROOK EDUCATIONAL CENTER**  
MAILING ADDRESS: 6722 LANSLOWNE AVENUE, PHILADELPHIA, PA 19151  
DEED ADDRESS: 6730-38 LANSLOWNE AVENUE, PHILADELPHIA, PA 19151-3625

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**LARGE SCALE LAYOUTS & FLOOR PATTERN PLANS - ANNEX THIRD FLOOR**

LOCATION NO.	FILE NO.

DRAWN BY	CHECKED BY

DRAWING NO.  
**14.4**





ARCHITECT

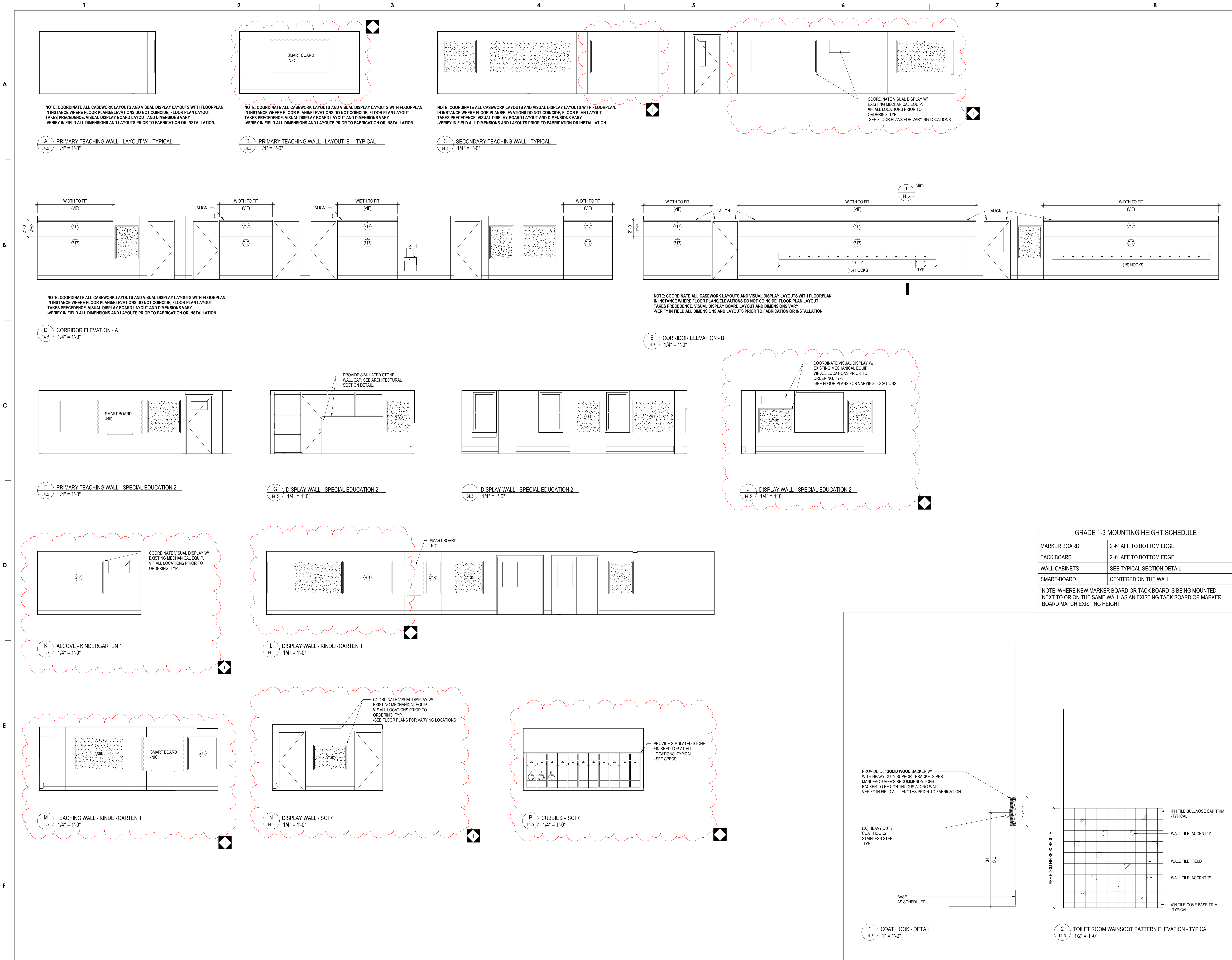
CRABTREE, ROHRBAUGH & ASSOCIATES  
401 E. Winding Hill Road  
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Phone: 717-458-0272

Email: jharder@cro-architects.com  
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MEP ENGINEERS

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Phone: 443-309-6036

Email: deepak@setty.com  
Attn: Deepak Ajmani



GRADE 1-3 MOUNTING HEIGHT SCHEDULE	
MARKER BOARD	2'-6" AFF TO BOTTOM EDGE
TACK BOARD	2'-6" AFF TO BOTTOM EDGE
WALL CABINETS	SEE TYPICAL SECTION DETAIL
SMART-BOARD	CENTERED ON THE WALL

NOTE: WHERE NEW MARKER BOARD OR TACK BOARD IS BEING MOUNTED NEXT TO OR ON THE SAME WALL AS AN EXISTING TACK BOARD OR MARKER BOARD MATCH EXISTING HEIGHT.

100% DESIGN SUBMISSION  
1/22/2020

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1	3/5/2020	ADDENDUM # 1
NO.	DATE	REVISION

SCHOOL & LOCATION  
**OVERBROOK EDUCATIONAL CENTER**  
MAILING ADDRESS: 6722 LANSLOWNE AVENUE, PHILADELPHIA, PA 19151  
DEED ADDRESS: 6730-38 LANSLOWNE AVENUE, PHILADELPHIA, PA 19151-3625

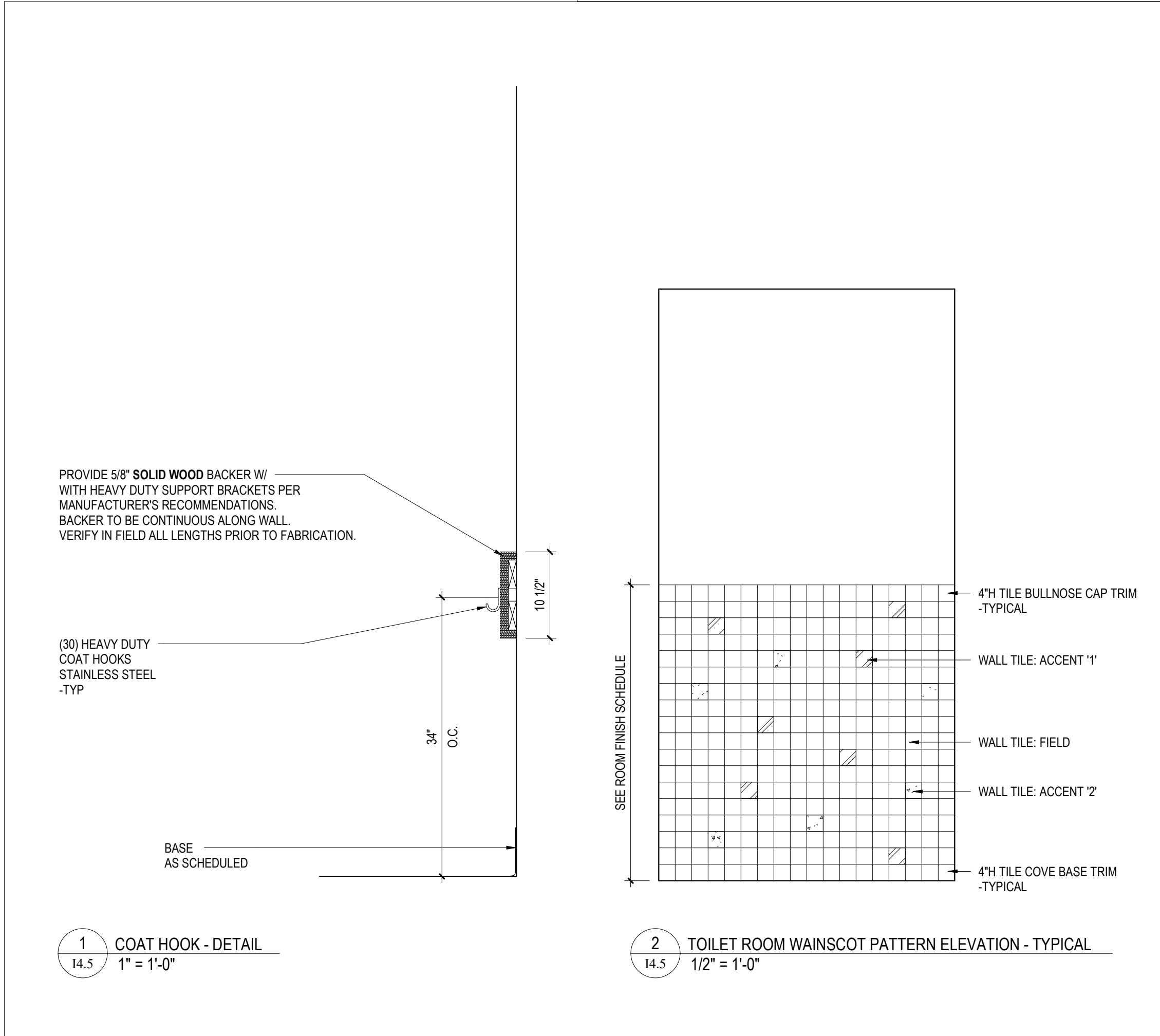
PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**INTERIOR ELEVATIONS & DETAILS - ANNEX BUILDING**

LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY

B-028C OF 2019 / 20  
B-030C OF 2019 / 20

DRAWING NO.  
**14.5**



1 COAT HOOK - DETAIL  
14.5 1/2" = 1'-0"

2 TOILET ROOM WAINSCOT PATTERN ELEVATION - TYPICAL  
14.5 1/2" = 1'-0"



COMcheck Software Version 4.1.1.0  
Interior Lighting Compliance Certificate

Project Information  
Energy Code: 2018 IECC  
Project Name: OVERBROOK EDUCATIONAL CENTER  
Alteration

Construction Site: 6722 LANSOWNE AVENUE, PHILADELPHIA, PA 19133  
Client/Agent: CRAIGTREE, ROHRBAUGH & ASSOCIATES, INC., 401 E. WINDING HILL ROAD, MECHANICSBURG, PA 17055  
Designer/Contractor: DEEPAK AGNISETTY, 335 South Charles Street, SUITE 101, BALTIMORE, MD 21201

Allowed Interior Lighting Power table with columns: Area Category, Floor Area (sq ft), Allowed Watts / ft2, Allowed Watts (ft x ft)

Proposed Interior Lighting Power table with columns: Fixture ID, Description / Lamp / Wattage Per Lamp / Ballast, Lamp/Watt, # of Fixtures, Watts

Summary table for proposed interior lighting power with columns: Fixture ID, Description / Lamp / Wattage Per Lamp / Ballast, Lamp/Watt, # of Fixtures, Watts

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application.

Signatures for Name, Title, and Date

ELECTRICAL GENERAL NOTES

- 1. INSTALLATION OF ALL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING REGULATIONS, CODES, ETC.
A. LOCAL CODES AND ORDINANCES
B. PENNSYLVANIA UNIFORM CONSTRUCTION CODE (PA UCC)
C. PHILADELPHIA EXISTING BUILDING CODE (2018)
D. INTERNATIONAL BUILDING CODE (IBC 2018)
E. PHILADELPHIA ENERGY CONSERVATION CODE
F. PHILADELPHIA FIRE CODE
G. PHILADELPHIA ELECTRICAL CODE
H. PHILADELPHIA PERFORMANCE CODE
I. PENNSYLVANIA DEPARTMENT OF EDUCATION REGULATION
J. NATIONAL ELECTRICAL CODE (NEC 2017) NFPA 70.

BRANCH CIRCUIT WIRE SIZING

Table showing wire sizing for 20 AMPERE SINGLE PHASE CIRCUITS (1, 4) with columns: Length of Run (ft), Home Run Size (AWG), Circuit Wire Size (AWG)

- 1. WIRING FOR BRANCH CIRCUITS PROTECTED BY 20 AMPERE OVERCURRENT PROTECTIVE DEVICES SHALL BE SIZED IN ACCORDANCE WITH THE ABOVE TABLE (UNLESS OTHERWISE NOTED).
2. HOMERUN LENGTH SHALL BE FROM THE PANELBOARD TO THE CLOSEST OUTLET, DEVICE OR FIXTURE ON THE CIRCUIT.
3. CIRCUIT LENGTH SHALL BE FROM THE CLOSEST TO THE FARTHEST OUTLET, DEVICE OR FIXTURE.
4. PROVIDE CODE COMPLIANT MEANS OF REDUCING CONDUCTOR SIZE AS NEEDED FOR TERMINATIONS, PROVIDE ADDITIONAL JUNCTION BOXES, SPLICES, LUGS, ETC. AS NEEDED.
5. LENGTH OF RUN REFERS TO THE LENGTH OF THE HOMERUN OR THE LENGTH OF THE CIRCUIT, (WITH EACH DEFINED IN NOTES 2 & 3).

ELECTRICAL GENERAL DEMOLITION NOTES

- 1. GENERAL:
A. THE GENERAL EXTENT OF EXISTING ELECTRICAL WORK TO BE DISMANTLED AND REMOVED OR REUSED ARE INDICATED ON THE DRAWINGS.
B. ALL COMPONENTS ASSOCIATED WITH SYSTEMS AND EQUIPMENT TO BE REMOVED MAY NOT BE SPECIFICALLY INDICATED. REMOVE ALL ASSOCIATED ELECTRICAL ACCESSORIES AND COMPONENTS INCLUDING BUT NOT LIMITED TO HANGERS, WIRING, CONDUIT, BOXES AND ALL ADDITIONAL MISCELLANEOUS ITEMS RELATED TO THE EXISTING EQUIPMENT INDICATED TO BE REMOVED OR RELOCATED.
C. ABANDON ALL CONDUITS CONCEALED IN CONCRETE WALLS OR SLABS. REMOVE ALL WIRING FROM ABANDONED CONDUITS BACK TO SOURCE OF SUPPLY.
D. ALL EXISTING ABANDONED RECESSED EMPTY BACKBOXES LOCATED IN WALL WITHIN THE SCOPE OF WORK SHALL BE PROVIDED WITH NEW COVER PLATES, PROVIDE TOUCH-UP PAINT AND FINISH PAINTING AS REQUIRED IN THE AREAS AS AFFECTED. NEW FINISH AND QUALITY TO MATCH ADJACENT AREAS CONSTRUCTION.

GENERAL LIGHTING FIXTURE SCHEDULE NOTES

- 1. PROVIDE FIXTURES WITH ALL NECESSARY ACCESSORIES TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.
2. COORDINATE WITH ARCHITECT FOR ALL FIXTURE FINISHES, LENS ACCESSORIES, CEILING TYPE AND MOUNTING REQUIREMENTS.
3. ALL DIMMER SWITCHES MUST BE COMPATIBLE WITH DIMMABLE DRIVERS. CONTRACTOR TO ENSURE ALL DIMMER SWITCHES ARE RATED TO ACCOMMODATE THE LOAD REQUIREMENTS OF ASSOCIATED LIGHTING CIRCUIT.
4. ALL APPLICABLE LIGHT FIXTURES, SWITCHES, DRIVERS AND ASSOCIATED ACCESSORIES MUST BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM SERVING THE SPACE.

ELECTRICAL LEGEND

(STANDARD SYMBOLS ONLY. ALL SYMBOLS MAY NOT BE APPLICABLE TO THIS PROJECT)

Legend defining symbols for: 1. REFER TO DETAIL ON DRAWING E7.1 FOR TYPICAL DEVICE MOUNTING HEIGHTS; TYPICAL INTERIOR LIGHTING FIXTURES; WALL-MOUNTED DUPLEX OR QUAD RECEPTACLE; CEILING-MOUNTED DUPLEX OR QUAD RECEPTACLE; WALL MOUNTED DATA OUTLET; WALL MOUNTED TELEPHONE OUTLET; WIRELESS ACCESS POINT; WALL MOUNTED CATV OUTLET; 20A, 1P, 120V SINGLE POLE TOGGLE SWITCH; 3-WAY SWITCH; SWITCH WITH PILOT LIGHT; FAN CONTROL SWITCH; LOW VOLTAGE 2 BUTTON SWITCH; LOW VOLTAGE 2 BUTTON SWITCH WITH RAISE-LOWER; OLD ABANDONED PUBLIC ADDRESS CALL BUTTON SWITCH; ROOM CONTROLLER; KEYED DRAWING NOTE; SURFACE MOUNTED SPECIAL PURPOSE RECEPTACLE; WALL/CEILING MOUNTED PUBLIC ADDRESS SPEAKER; WALL MOUNTED WIRED CLOCK SYSTEM OUTLET; WALL MOUNTED WIRELESS CLOCK BATTERY OPERATED; WALL/CEILING MOUNTED LOW VOLTAGE VACANCY SENSOR SWITCH; FIRE ALARM PULL STATION; WALL MOUNTED FIRE ALARM COMBINATION AUDIO (HORN)/VSUAL DEVICE.

ABBREVIATIONS

(NOTE: ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS)

Table of abbreviations: A: AMPERE, ADA: AMERICANS WITH DISABILITIES ACT, AFF: ABOVE FINISHED FLOOR, AL: ALUMINUM, AWG: AMERICAN WIRE GAUGE, CB: CONDUIT, CB: CIRCUIT BREAKER, CU: COPPER, D: EXISTING TO BE DEMOLISHED, DFA: DOWN FROM ABOVE, DISC: DISCONNECT SWITCH, DWG: DRAWING, E, EX: EXISTING TO REMAIN, EM: DEVICE OR EMERGENCY CIRCUIT ELECTRICAL METALLIC TUBING, FAAP: FIRE ALARM ANNUNCIATOR PANEL, FAC: FIRE ALARM CONTROL PANEL, FALT: FIRE ALARM TERMINAL CABINET, FLA: FULL LOAD AMPS, G: GROUND, GF/GFCI: GROUND FAULT INTERRUPTER, GRN: GALVANIZED RESISTIVE CONDUIT, HP: HORSE POWER, KVA: KILOWATT-AMPS, KW: KILOWATT, MCB: MAIN CIRCUIT BREAKER, MLO: MAIN LUGS ONLY, MDP: MAIN DISTRIBUTION PANEL, N: NEW, NEC: NATIONAL ELECTRICAL CODE, NFSS: NON FUSED SAFETY SWITCH, NTS: NOT TO SCALE, P: POLE, PH: PHASE, PIN: PANEL, RR: REMOVE AND RELOCATE, SN: SOLID NEUTRAL SWITCHBOARD, XFMR: TRANSFORMER, TYP: TYPICAL, UON: UNLESS OTHERWISE NOTED, V: VOLTS, W: WATTS, WP: WEATHERPROOF

LEGEND

--- ITEMS SHOWN DASHED INDICATE EXISTING TO BE REMOVED OR RELOCATED
--- ITEMS SHOWN LIGHT LINES INDICATE EXISTING TO REMAIN
--- ITEMS SHOWN THICK LINES INDICATE NEW TO BE PROVIDED

LIGHT FIXTURE SUBSCRIPT

HP-2 LIGHT FIXTURES MAY BE INDICATED WITH FOLLOWING SUBSCRIPTS:
A UPPER CASE SUBSCRIPT INDICATES LIGHT FIXTURE IDENTIFICATION TAG
a LOWER CASE SUBSCRIPT INDICATES LIGHTING ZONE IDENTIFICATION
HP-2 PANEL NAME AND CIRCUIT NUMBER SERVING LIGHT FIXTURE

INTERIOR LIGHTING FIXTURE SCHEDULE table with columns: TYPE, SYMBOL, DESCRIPTION, MANUFACTURER, CATALOG NUMBER, LAMP, VOLTAGE, LUMENS, COLOR RENDERING INDEX (CRI), REMARKS

ELECTRICAL - DRAWING LIST

Table with columns: SHEET, DRAWING, TITLE. Lists sheets E0.1 through E7.1 and their corresponding titles.

440 NORTH BROAD STREET PHILADELPHIA, PA 19130 - 4015 (215) 400 - 4730 (215) 400 - 4731 (fax) www.phildist.org

SEAL:



CORRAD DELACRUZ STATE AND LICENSE NO. PE09048

ARCHITECT

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100% DESIGN SUBMISSION 1/22/2020

Table with columns: NO., DATE, REVISION. Shows a single revision for drawing E0.1 dated 03/05/2020.

SCHOOL & LOCATION OVERBROOK EDUCATIONAL CENTER

6722 LANSOWNE AVENUE, PHILADELPHIA, PA 19151

PROJECT TITLE CLASSROOM MODERNIZATION

DRAWING TITLE

ELECTRICAL GENERAL NOTES, SYMBOLS & ABBREVIATIONS

Table with columns: LOCATION NO., FILE NO., DRAWN BY, CHECKED BY. Shows NRS and DAT as drawn and checked by.

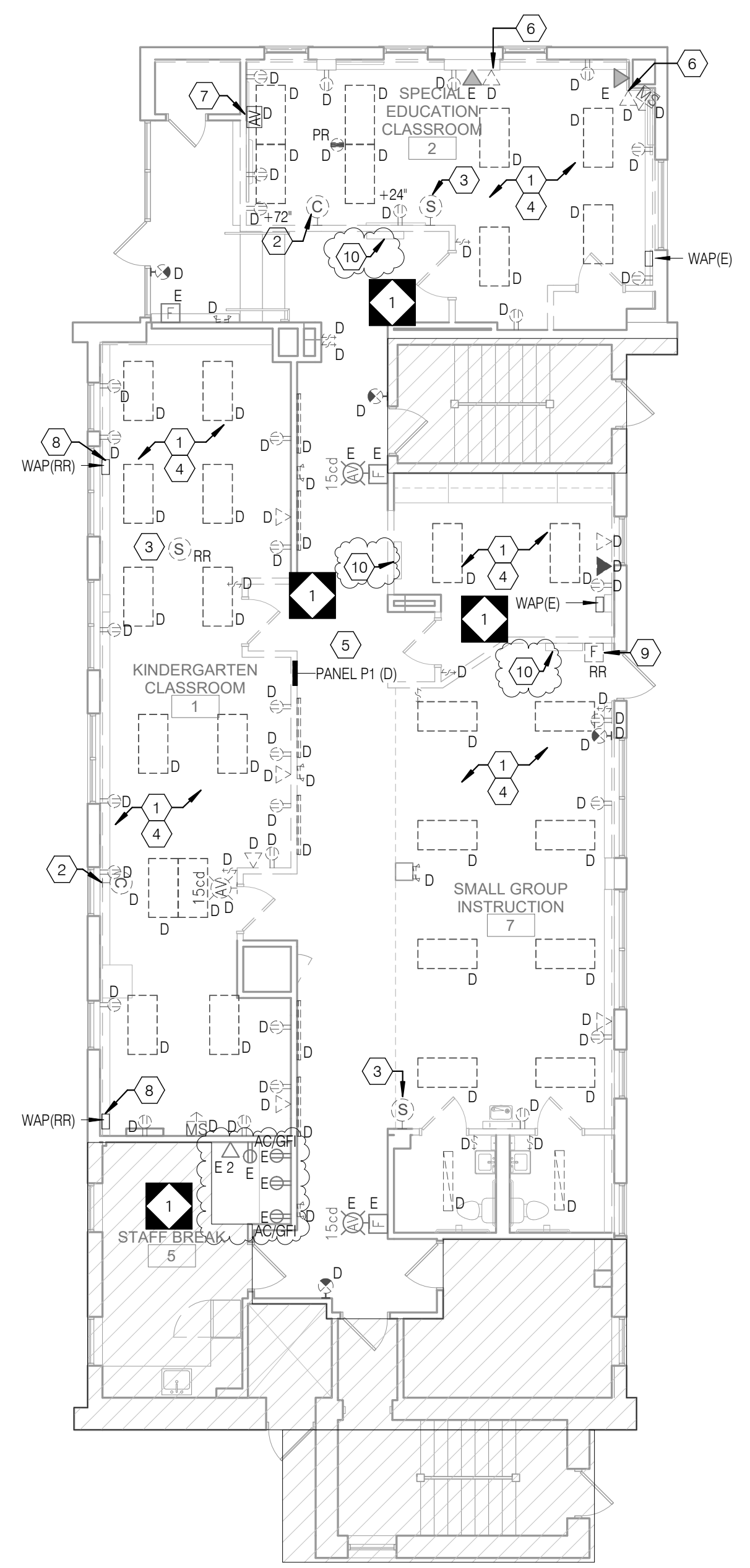
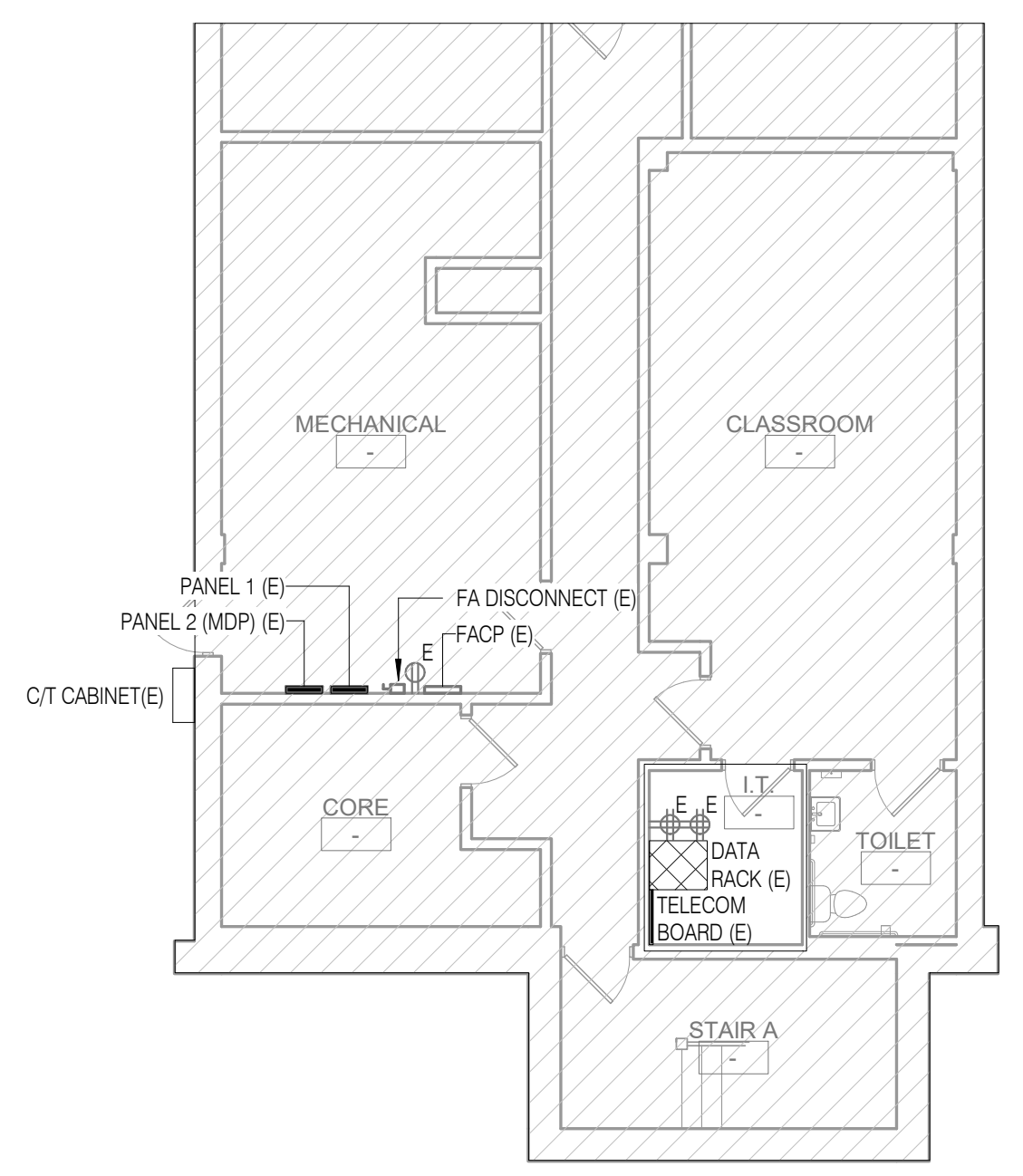
Table with columns: OF, DATE. Shows 039C OF 2018 / 19 and 040C OF 2018 / 19.

DRAWING NO.

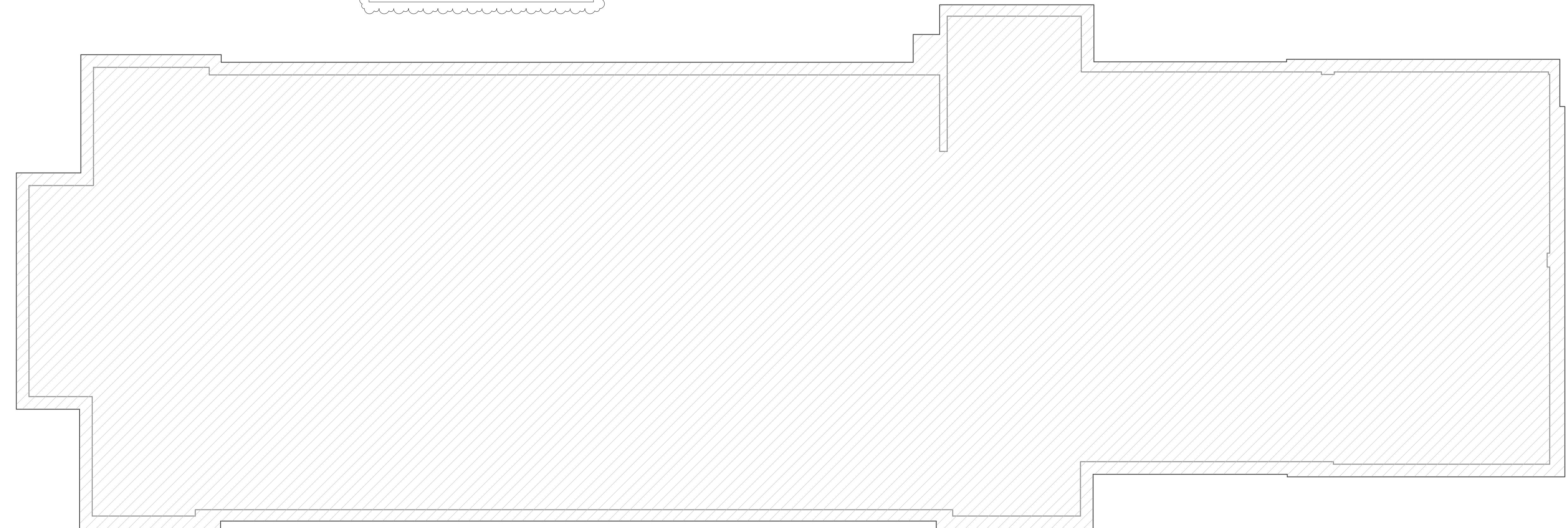
E0.1



2 ELECTRICAL BASEMENT DEMOLITION PLAN  
ED1.1 1/8" = 1'-0"



ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0" OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM.

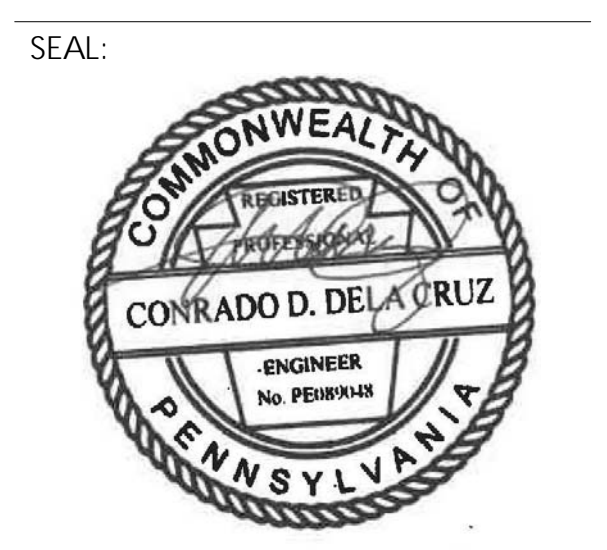


**GENERAL SHEET NOTES**

- REFER TO DRAWING EA 1 FOR ELECTRICAL GENERAL NOTES, GENERAL DEMOLITION NOTES, LEGEND AND ABBREVIATIONS.
- UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES SHOWN ON THE DEMOLITION PLANS WITH DASHED LINES INDICATE AN EXISTING DEVICE TO BE DEMOLISHED.
- ALL EXISTING DEVICES TO REMAIN SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
- THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED.

**KEYED SHEET NOTES**

- ALL LIGHTING FIXTURES, CONTROLS AND ASSOCIATED WIRING TO BE REMOVED BACK TO SOURCE OF TERMINATION SERVING THIS CLASSROOM. PREPARE FOR CONNECTION OF EXISTING CIRCUIT TO THE NEW FIXTURES UNDER NEW WORK. CONTRACTOR SHALL REUSE THE EXISTING WIRING AND CONDUIT IN PLACE WHERE POSSIBLE. PROVIDE NEW WIRING/CONDUIT AS REQUIRED.
- DISCONNECT AND REMOVE ALL EXISTING SYNCHRONOUS CLOCK, CONDUIT/RACEWAY AND WIRING ASSOCIATED WITH THIS SYSTEMS TO ITS ENTIRETY WITHIN THE ROOM. PROVIDE NEW BLANK COVER PLATE, PATCH AND PAINT AROUND COVER PLATE AND ALONG THE REMOVED CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH ADJACENT EXISTING WALL CONSTRUCTION.
- REMOVE AND RELOCATE EXISTING PUBLIC ADDRESS SPEAKER. CONTRACTOR TO FIELD TEST AND VERIFY FUNCTIONALITY OF EXISTING PUBLIC ADDRESS SPEAKER. PROVIDE NEW PUBLIC ADDRESS SPEAKER IF REQUIRED. NEW TO MATCH EXISTING SPECIFICATIONS.
- DISCONNECT AND REMOVE EXISTING RECEPTACLE, ASSOCIATED WIRING AND CONDUIT/RACEWAY. PATCH AND PAINT ALONG THE REMOVED BACK BOX AND CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH ADJACENT EXISTING WALL CONSTRUCTION.
- DEMOLISH EXISTING PANELBOARD 'P1' AND REPLACE IN NEW LOCATION. CONTRACTOR TO UTILIZE, INTERCEPT AND EXTEND ALL EXISTING ACTIVE FEEDER AND BRANCH CIRCUIT WIRING/CONDUIT OF SAME SIZE VIA NEW NEW JUNCTION BOX OR PULL BOX AND CONNECT IT TO NEW PANELBOARD 'P1'. REFER TO NEW WORK DRAWINGS FOR NEW PANEL LOCATION AND ADDITIONAL INFORMATION.
- DISCONNECT AND REMOVE EXISTING DATA OUTLETS AND COVER PLATE ALONG WITH ASSOCIATED CATS CABLE. EXISTING CONDUIT TO REMAIN IN PLACE. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- DISCONNECT AND REMOVE EXISTING AUDIO VISUAL OUTLET, ASSOCIATED CABLE AND CONDUIT/RACEWAY IN ITS ENTIRETY WITHIN THE ROOM. PATCH AND PAINT ALONG THE REMOVED BACKBOX AND CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH EXISTING WALL CONSTRUCTION.
- REMOVE AND RELOCATE EXISTING WIRELESS ACCESS POINT TO ACCOMMODATE NEW CONSTRUCTION. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- REMOVE AND RELOCATE EXISTING FIRE ALARM PULL STATION TO ACCOMMODATE NEW CONSTRUCTION. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- DISCONNECT AND REMOVE EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED CONTROLS, CONDUIT AND WIRING BACK TO SOURCE OF SUPPLY. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



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Attn: Deepak Ajimane

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1/22/2020

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1	03/05/2020	ADDENDUM #1
NO.	DATE	REVISION

SCHOOL & LOCATION  
**OVERBROOK EDUCATIONAL CENTER**

6722 LANSDOWNE AVENUE,  
PHILADELPHIA, PA 19151

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**ELECTRICAL FIRST FLOOR DEMOLITION PLAN**

LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY
NBS	DAT
B-039C	OF 2018 / 19
B-040C	OF 2018 / 19

DRAWING NO.  
**ED1.1**

1 ELECTRICAL FIRST FLOOR DEMOLITION PLAN  
ED1.1 1/8" = 1'-0"

SEAL:



CONRAD DELACRUZ  
STATE AND LICENSE NO. PE09048

**ARCHITECT**

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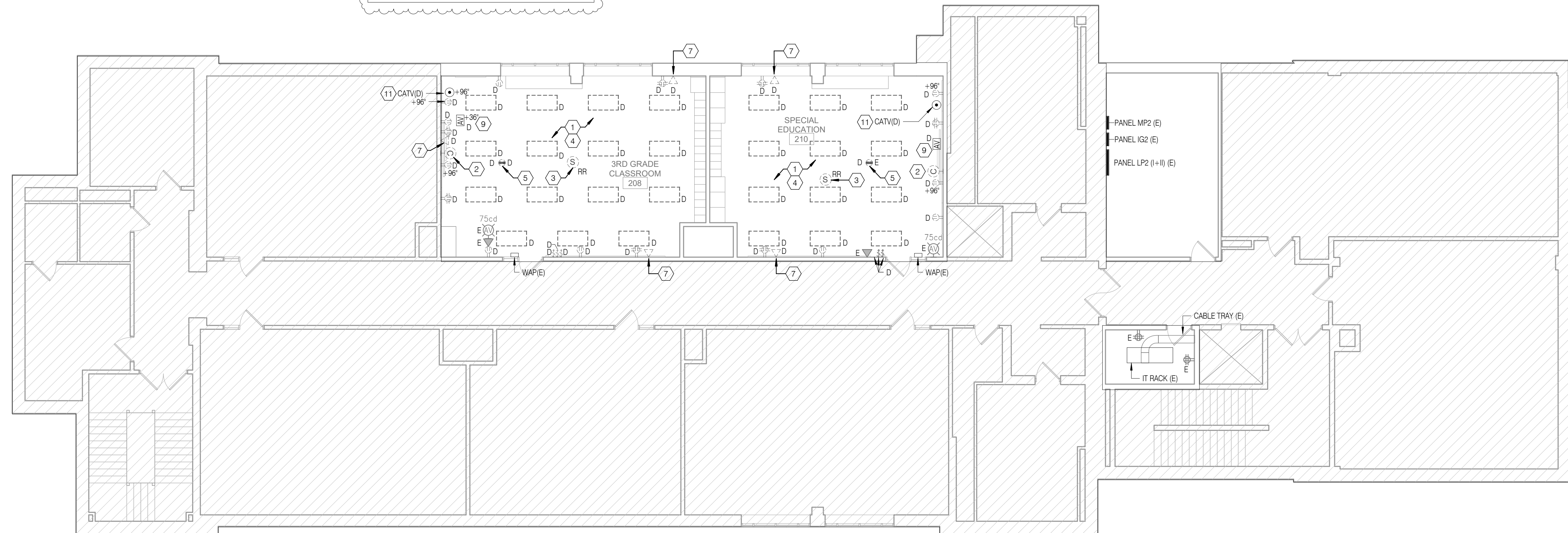
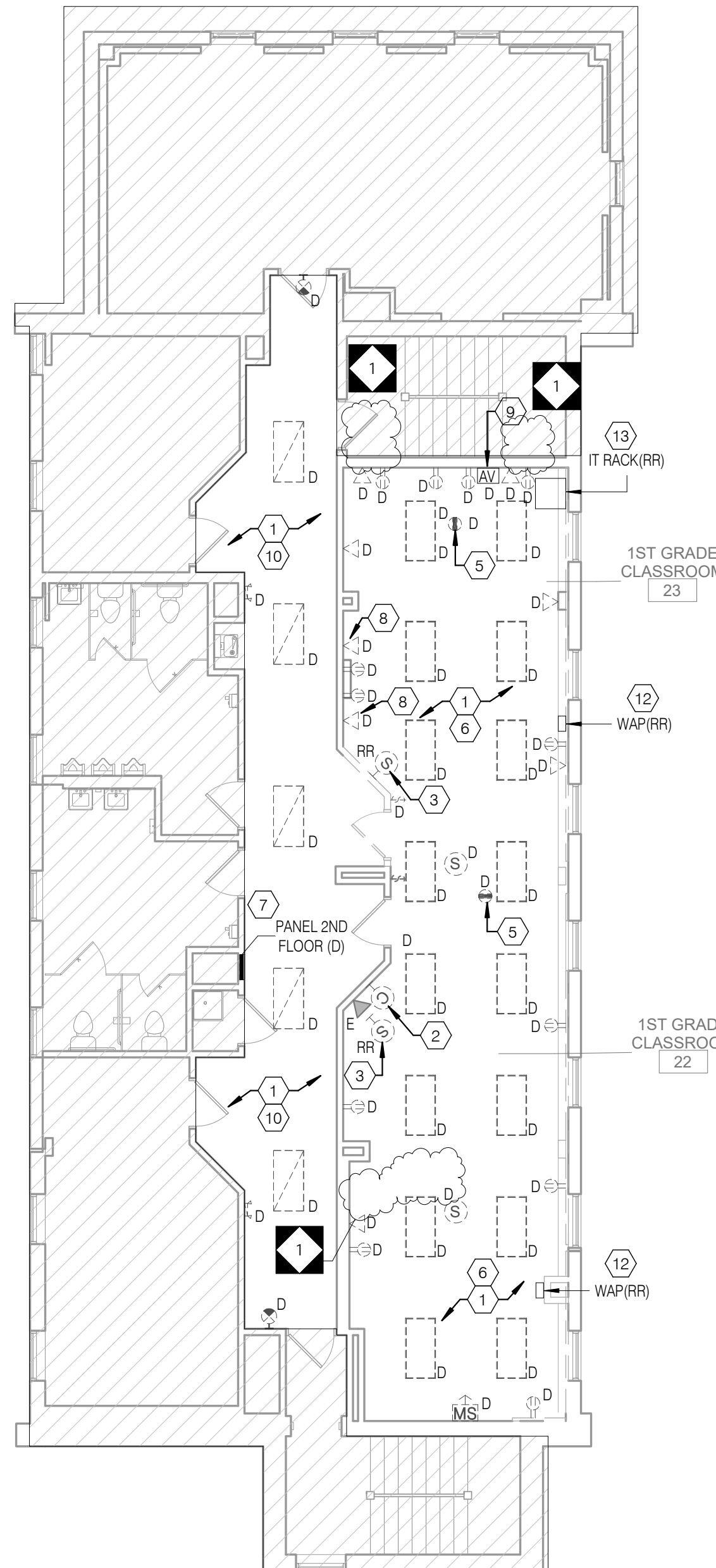
**GENERAL SHEET NOTES**

- REFER TO DRAWING E01 FOR ELECTRICAL GENERAL NOTES, GENERAL DEMOLITION NOTES, LEGEND AND ABBREVIATIONS.
- UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES SHOWN ON THE DEMOLITION PLANS WITH DASHED LINES INDICATE AN EXISTING DEVICE TO BE DEMOLISHED.
- ALL EXISTING DEVICES TO REMAIN SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
- THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED.

**KEYED SHEET NOTES**

- ALL LIGHTING FIXTURES, CONTROLS AND ASSOCIATED WIRING TO BE REMOVED BACK TO SOURCE OF TERMINATION SERVING THIS ROOM. PREPARE FOR CONNECTION OF EXISTING CIRCUIT TO THE NEW FIXTURES UNDER NEW WORK. CONTRACTOR SHALL REUSE THE EXISTING WIRING AND CONDUIT IN PLACE WHERE POSSIBLE. PROVIDE NEW WIRING/CONDUIT AS REQUIRED.
- DISCONNECT AND REMOVE ALL EXISTING SYNCHRONOUS CLOCK, CONDUIT/RACEWAY AND WIRING ASSOCIATED WITH THIS SYSTEMS TO ITS ENTIRETY WITHIN THE ROOM. PROVIDE NEW BLANK COVER PLATE, PATCH AND PAINT AROUND COVER PLATE AND ALONG THE REMOVED CONDUIT/RACEWAY ROUTE, NEW FINISH TO MATCH ADJACENT EXISTING WALL CONSTRUCTION.
- REMOVE AND RELOCATE EXISTING PUBLIC ADDRESS SPEAKER. CONTRACTOR TO FIELD TEST AND VERIFY FUNCTIONALITY OF EXISTING PUBLIC ADDRESS SPEAKER. PROVIDE NEW PUBLIC ADDRESS SPEAKER IF REQUIRED, NEW TO MATCH EXISTING SPECIFICATIONS.
- DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES WITH COVER PLATE IN THIS CLASSROOM. EXISTING CIRCUIT TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- CEILING MOUNTED DUPLEX PROJECTOR OUTLET TO BE DEMOLISHED. REMOVE ALL ASSOCIATED WIRING AND CONDUIT ALONG WITH PROJECTOR BACK TO SOURCE OF SUPPLY. PROVIDE NEW CEILING TILE IN PLACE. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPE SPECIFICATIONS AND ADDITIONAL INFORMATION.
- DISCONNECT AND REMOVE EXISTING RECEPTACLE, ASSOCIATED WIRING AND CONDUIT/RACEWAY. PATCH AND PAINT ALONG THE REMOVED BACK BOX AND CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH ADJACENT EXISTING WALL CONSTRUCTION.
- DEMOLISH EXISTING PANELBOARD \*P2\* AND REPLACE IN PLACE. CONTRACTOR TO UTILIZE, INTERCEPT AND EXTEND ALL EXISTING ACTIVE FEEDER AND BRANCH CIRCUIT WIRING/CONDUIT OF SAME SIZE VIA NEW NEW JUNCTION BOX OR PULL BOX AND CONNECT IT TO NEW PANELBOARD \*P2\*. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.
- DISCONNECT AND REMOVE EXISTING DATA OUTLETS AND COVER PLATE ALONG WITH ASSOCIATED CAT5 CABLE. EXISTING CONDUIT TO REMAIN IN PLACE. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- DISCONNECT AND REMOVE EXISTING AUDIO VISUAL OUTLET, ASSOCIATED CABLE AND CONDUIT/RACEWAY IN ITS ENTIRETY WITHIN THE ROOM. PATCH AND PAINT ALONG THE REMOVED BACKBOX AND CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH EXISTING WALL CONSTRUCTION.
- UNLESS OTHERWISE NOTED, ALL ELECTRICAL OUTLETS AND FIRE ALARM DEVICES SERVING THIS AREA ARE EXISTING TO REMAIN.
- DISCONNECT AND REMOVE EXISTING CATV OUTLET, ASSOCIATED CABLE AND CONDUIT/RACEWAY IN ITS ENTIRETY WITHIN THE ROOM. PATCH AND PAINT ALONG THE REMOVED BACKBOX AND CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH EXISTING WALL CONSTRUCTION.
- REMOVE AND RELOCATE EXISTING WIRELESS ACCESS POINT TO ACCOMMODATE NEW CONSTRUCTION. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- REMOVE AND RELOCATE EXISTING IT RACK TO ACCOMMODATE NEW CONSTRUCTION. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.

ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0" OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM.



100% DESIGN SUBMISSION  
1/22/2020

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1	03/05/2020	ADDENDUM #1
NO.	DATE	REVISION

SCHOOL & LOCATION  
**OVERBROOK EDUCATIONAL CENTER**

6722 LANSDOWNE AVENUE,  
PHILADELPHIA, PA 19151

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**ELECTRICAL SECOND FLOOR DEMOLITION PLAN**

LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY
NBS	DAT
B-039C OF 2018 / 19	B-040C OF 2018 / 19

DRAWING NO.  
**ED1.2**

1 ELECTRICAL SECOND FLOOR DEMOLITION PLAN  
ED1.2 1/8" = 1'-0"

SEAL:



CONRAD DELACRUZ  
STATE AND LICENSE NO. PE09048

**ARCHITECT**

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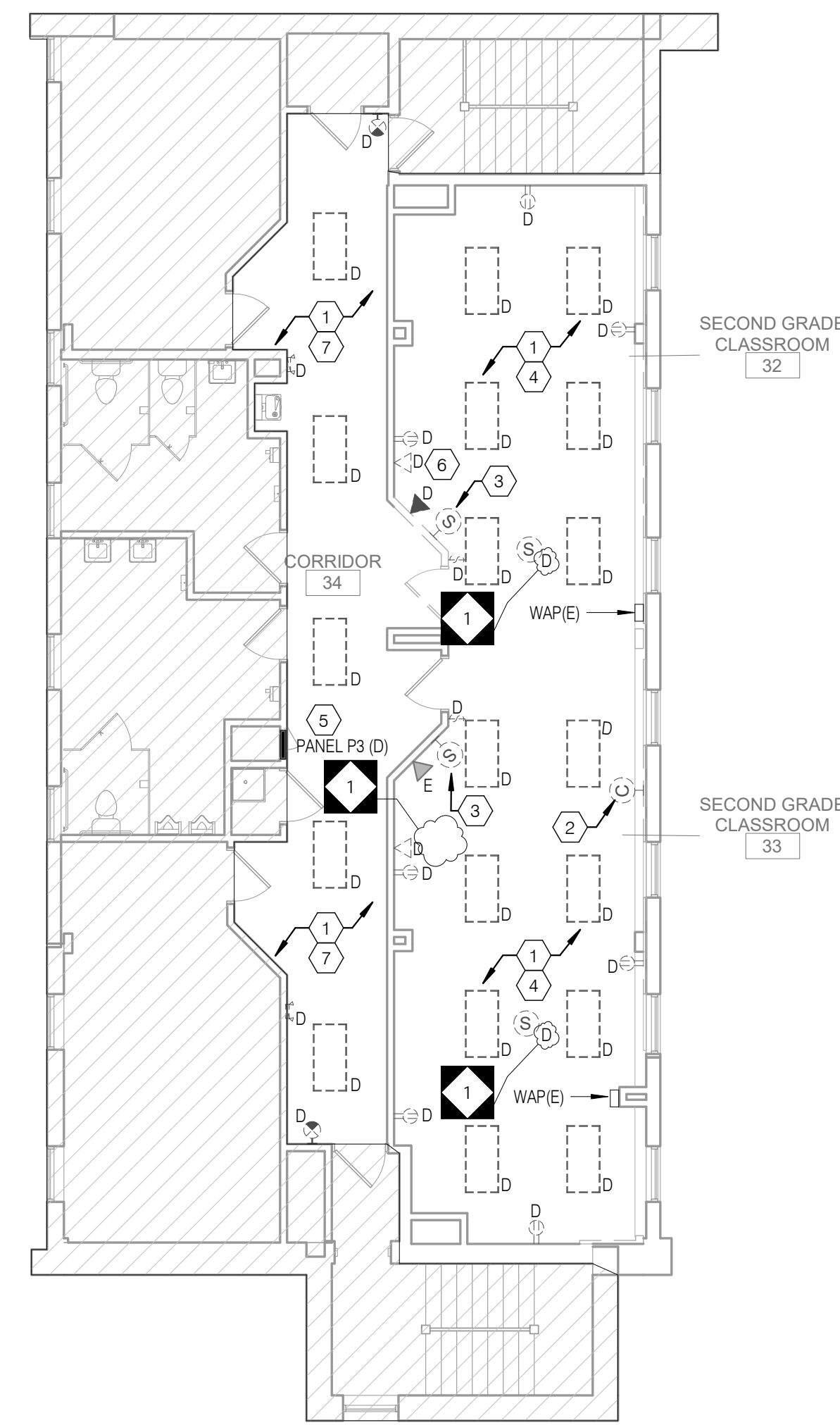
Email: deepak.at@setty.com  
Attn: Deepak Ajimane

**GENERAL SHEET NOTES**

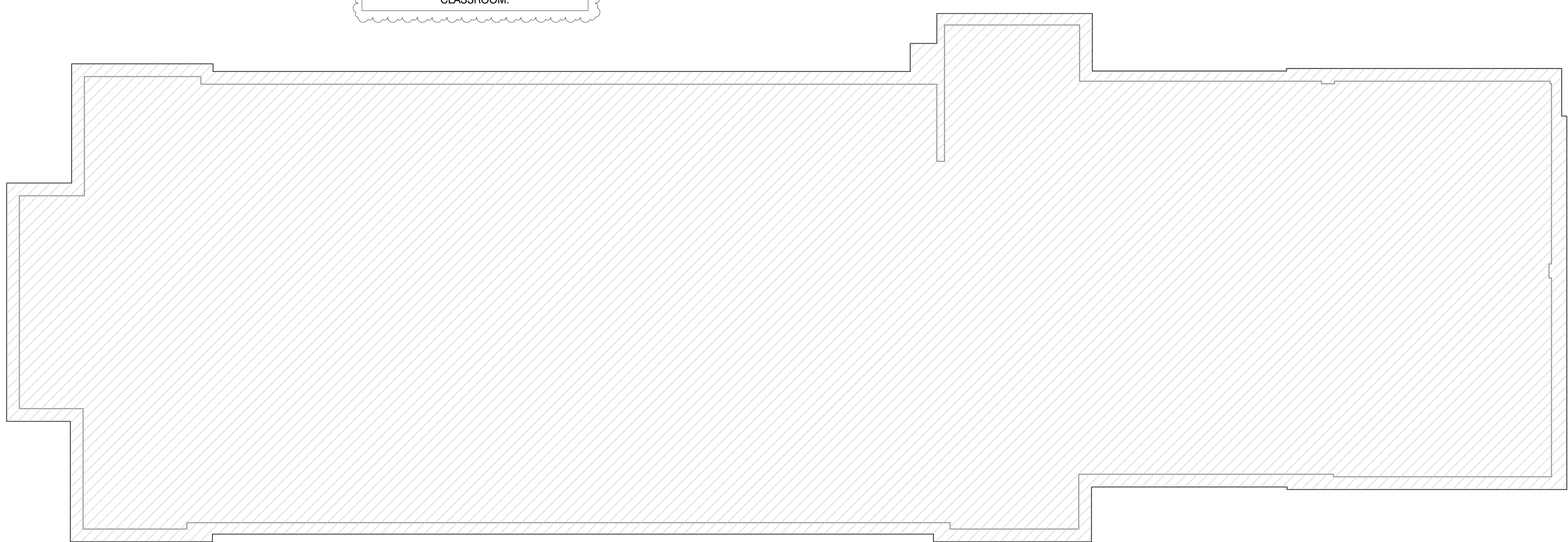
- REFER TO DRAWING ED-1 FOR ELECTRICAL GENERAL NOTES, GENERAL DEMOLITION NOTES, LEGEND AND ABBREVIATIONS.
- UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES SHOWN ON THE DEMOLITION PLANS WITH DASHED LINES INDICATE AN EXISTING DEVICE TO BE DEMOLISHED.
- ALL EXISTING DEVICES TO REMAIN SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
- THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED.

**KEYED SHEET NOTES**

- ALL LIGHTING FIXTURES, CONTROLS AND ASSOCIATED WIRING TO BE REMOVED BACK TO SOURCE OF TERMINATION SERVING THIS CLASSROOM. PREPARE FOR CONNECTION OF EXISTING CIRCUIT TO THE NEW FIXTURES UNDER NEW WORK. CONTRACTOR SHALL REUSE THE EXISTING WIRING AND CONDUIT IN PLACE WHERE POSSIBLE. PROVIDE NEW WIRING/CONDUIT AS REQUIRED.
- DISCONNECT AND REMOVE ALL EXISTING SYNCHRONOUS CLOCK, CONDUIT/RACEWAY AND WIRING ASSOCIATED WITH THIS SYSTEMS TO ITS ENTIRETY WITHIN THE ROOM. PROVIDE NEW BLANK COVER PLATE, PATCH AND PAINT AROUND COVER PLATE AND ALONG THE REMOVED CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH ADJACENT EXISTING WALL CONSTRUCTION.
- REMOVE AND RELOCATE EXISTING PUBLIC ADDRESS SPEAKER. CONTRACTOR TO FIELD TEST AND VERIFY FUNCTIONALITY OF EXISTING PUBLIC ADDRESS SPEAKER. PROVIDE NEW PUBLIC ADDRESS SPEAKER IF REQUIRED. NEW TO MATCH EXISTING SPECIFICATIONS.
- DISCONNECT AND REMOVE EXISTING RECEPTACLE, ASSOCIATED WIRING AND CONDUIT/RACEWAY. PATCH AND PAINT ALONG THE REMOVED BACK BOX AND CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH ADJACENT EXISTING WALL CONSTRUCTION.
- DEMOLISH EXISTING PANELBOARD \*P3\* AND REPLACE IN PLACE. CONTRACTOR TO UTILIZE, INTERCEPT AND EXTEND ALL EXISTING ACTIVE FEEDER AND BRANCH CIRCUIT WIRING/CONDUIT OF SAME SIZE VIA NEW NEW JUNCTION BOX OR PULL BOX AND CONNECT IT TO NEW PANELBOARD \*P3\*. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.
- DISCONNECT AND REMOVE EXISTING DATA OUTLETS AND COVERPLATE ALONG WITH ASSOCIATED CAT5 CABLE. EXISTING CONDUIT TO REMAIN IN PLACE. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- DISCONNECT AND REMOVE EXISTING AUDIO VISUAL OUTLET, ASSOCIATED CABLE AND CONDUIT/RACEWAY IN ITS ENTIRETY WITHIN THE ROOM. PATCH AND PAINT ALONG THE REMOVED BACKBOX AND CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH EXISTING WALL CONSTRUCTION.
- UNLESS OTHERWISE NOTED, ALL ELECTRICAL OUTLETS AND FIRE ALARM DEVICES SERVING THIS AREA ARE EXISTING TO REMAIN.



ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0" OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM.



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NO.	DATE	REVISION

SCHOOL & LOCATION  
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6722 LANSDOWNE AVENUE,  
PHILADELPHIA, PA 19151

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**ELECTRICAL THIRD FLOOR DEMOLITION PLAN**

LOCATION NO.	FILE NO.
DRAWN BY NBS	CHECKED BY DAT
B-039C OF 2018 / 19	B-040C OF 2018 / 19

DRAWING NO.  
**ED1.3**

SEAL:



CONRAD DELACRUZ  
STATE AND LICENSE NO. PE09048

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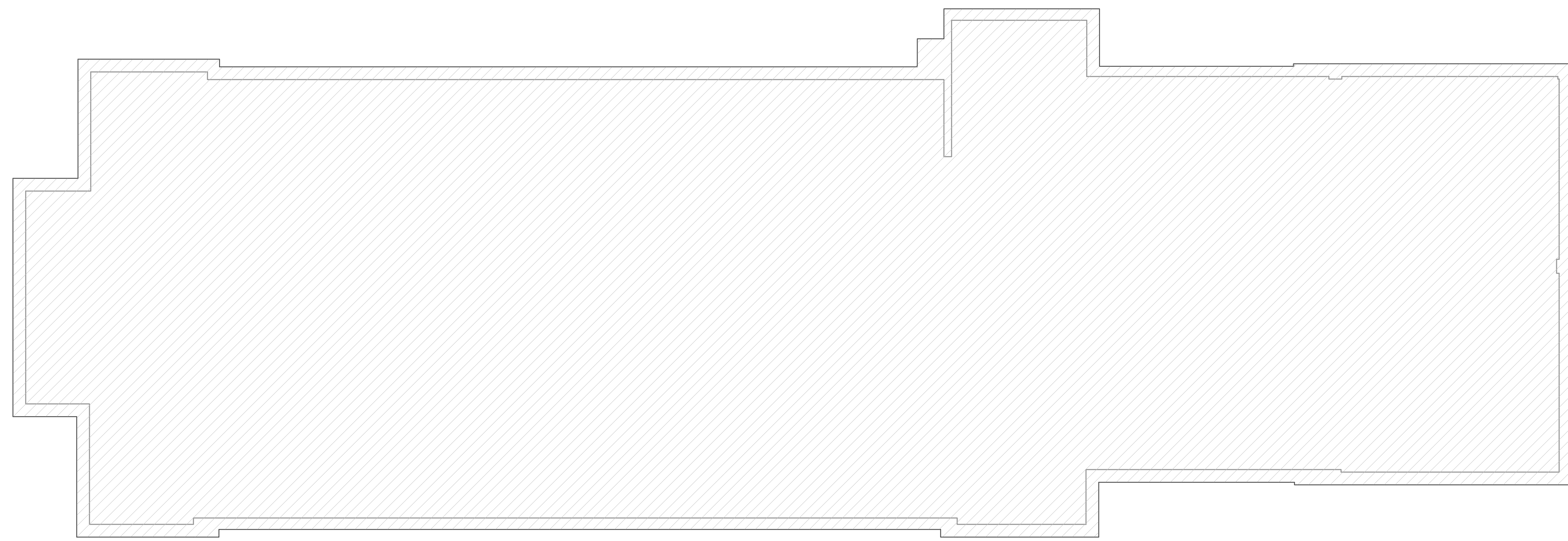
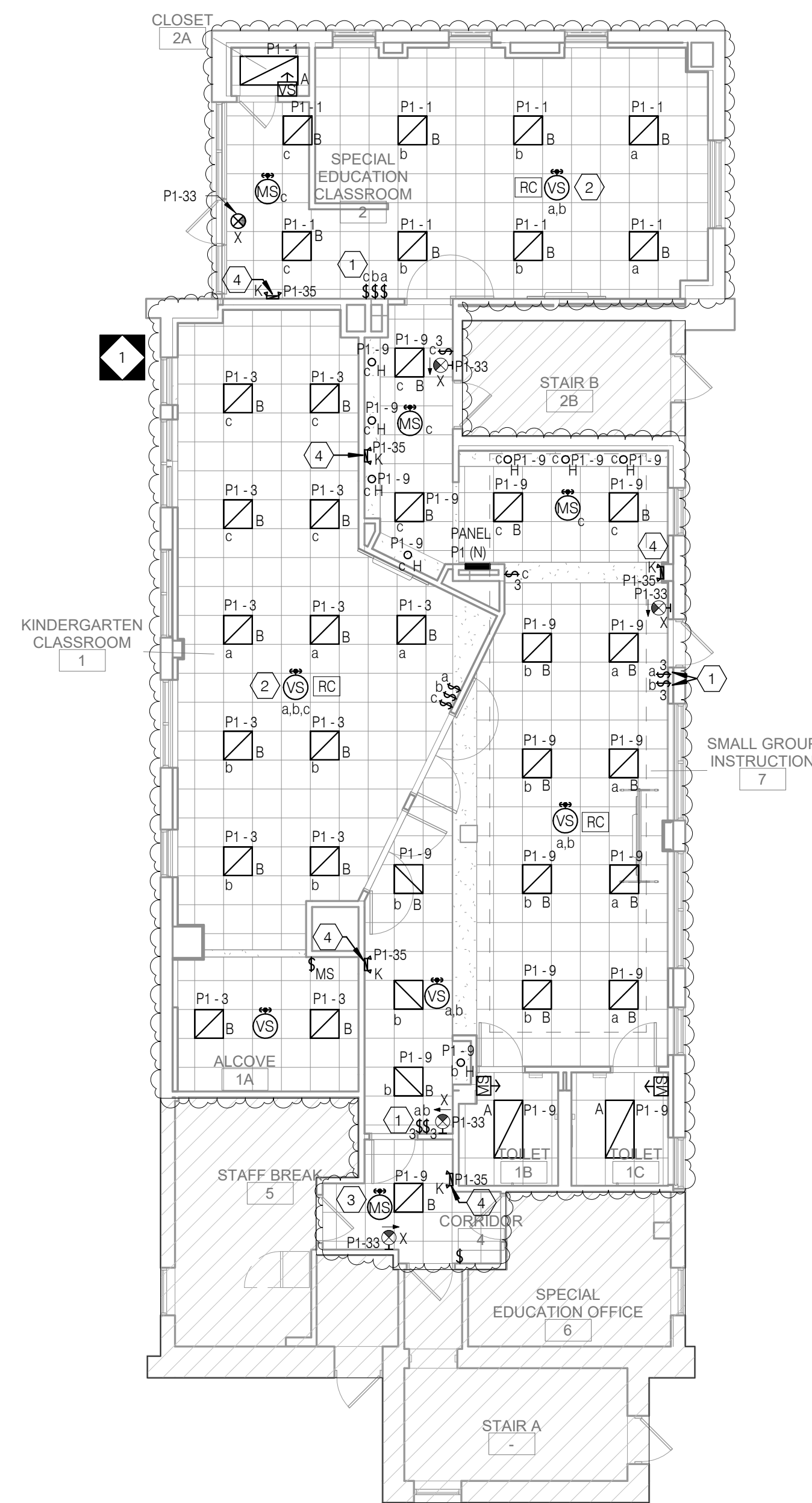
Email: deepak.ah@setty.com  
Attn: Deepak Ajmane

**GENERAL SHEET NOTES**

- REFER TO DRAWING E0.1 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND LIGHTING FIXTURE SCHEDULE AND DRAWING E7.1 FOR DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF LIGHTING FIXTURES AND CONTROL DEVICES.
- AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES IN THE CONTRACT AREA AND RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURES. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.

**KEYED SHEET NOTES**

- PROVIDE NEW DIMMER SWITCHES WITH COVER PLATE IN NEW BACKBOX. COORDINATE EXACT CONNECTION REQUIREMENTS WITH LIGHTING MANUFACTURER PRIOR TO INSTALLATION. CONTRACTOR TO FIELD VERIFY SOURCE OF THE EXISTING LIGHTING CIRCUIT PRIOR TO COMMENCING NEW LIGHTING INSTALLATION. CIRCUIT NUMBER SHOWN FOR REFERENCE ONLY. PROVIDE NEW OCCUPANCY SENSOR AND ROOM CONTROLLER AS SHOWN. REWIRE THE LIGHT FIXTURES, SWITCHES AND ROOM CONTROLLER TO ACCOMMODATE NEW LIGHTING FIXTURES LAYOUT AND CONTROLS AS REQUIRED. REFER TO DETAIL #3 ON DWG E7.1 FOR WIRING DIAGRAM.
- CONTRACTOR TO FIELD VERIFY SOURCE OF THE EXISTING LIGHTING CIRCUIT PRIOR TO COMMENCING NEW LIGHTING INSTALLATION. CIRCUIT NUMBER IS SHOWN FOR REFERENCE ONLY. PROVIDE NEW TOGGLE SWITCH WITH COVERPLATE AND NEW LIGHTING FIXTURES IN EXISTING BACKBOXES. EXISTING WIRING TO REMAIN IN PLACE.
- CONNECT AHEAD OF LOCAL SWITCH SERVING AREA.



1 ELECTRICAL FIRST FLOOR LIGHTING PLAN  
E1.1 1/8" = 1'-0"

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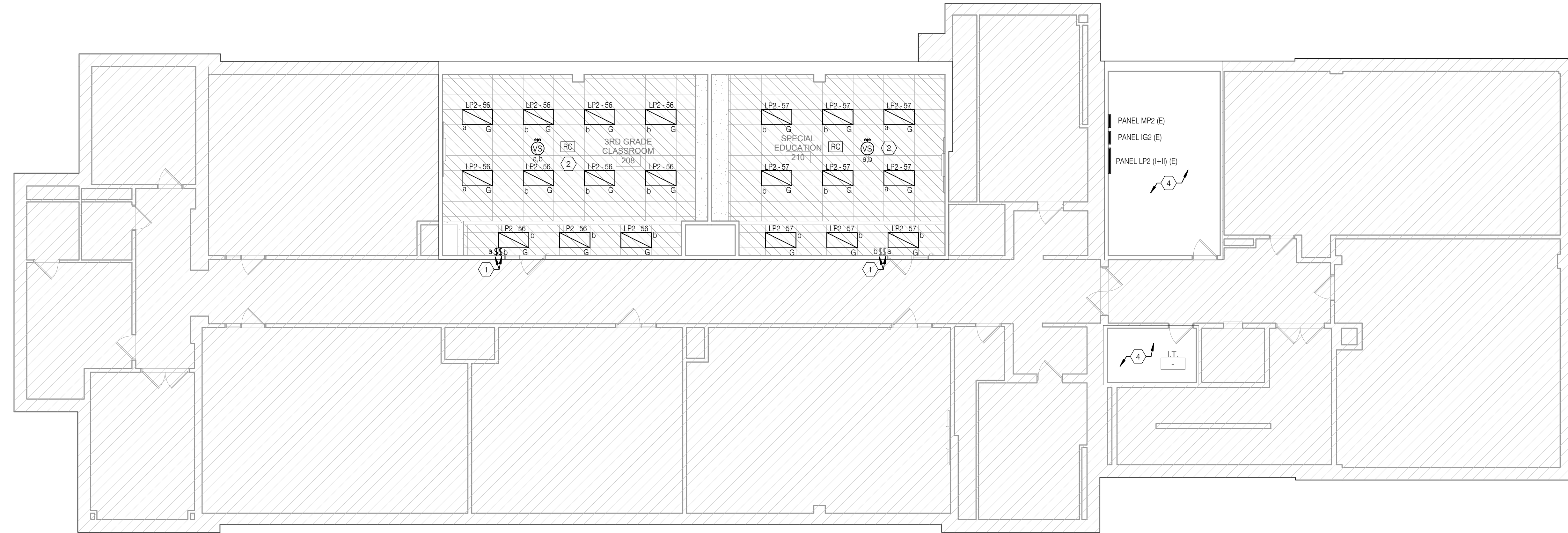
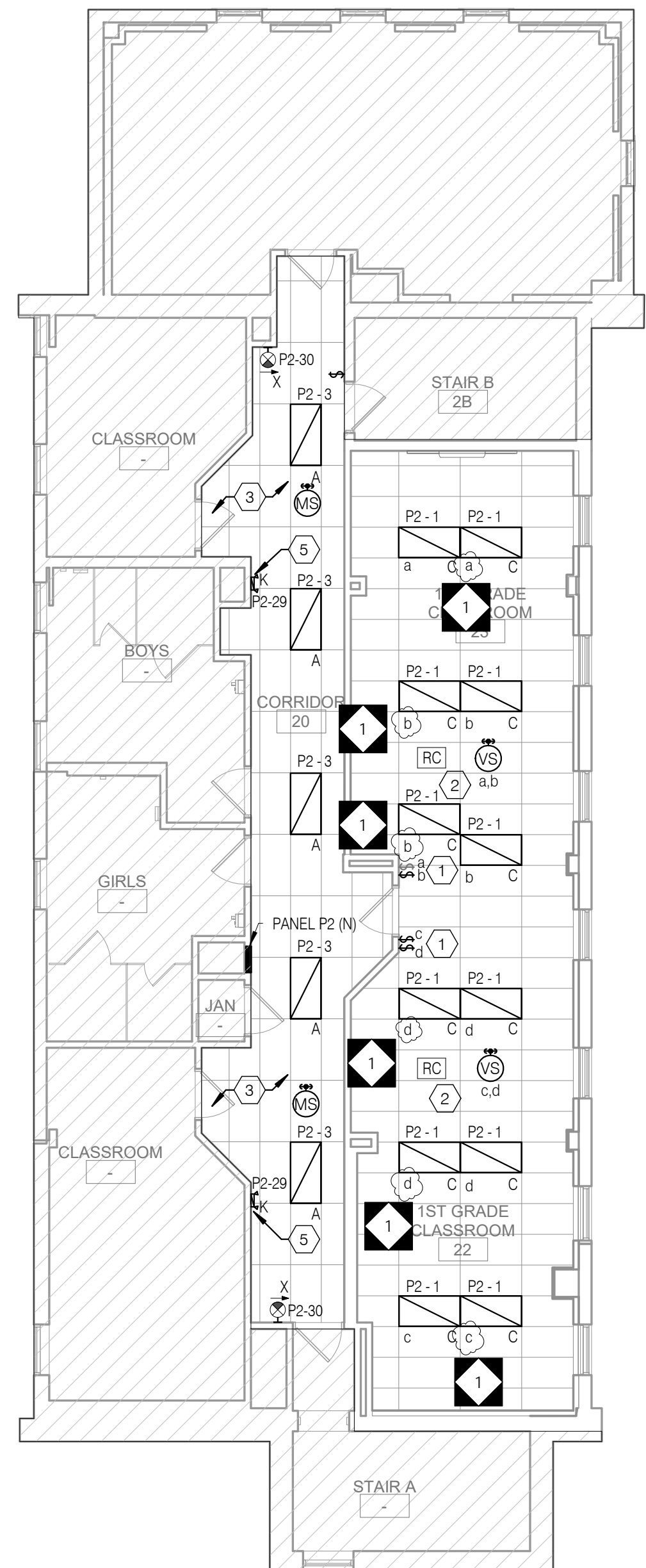
PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**ELECTRICAL FIRST FLOOR LIGHTING PLAN**

LOCATION NO.	FILE NO.
DRAWN BY NBS	CHECKED BY DAT
B-039C OF 2018 / 19	B-040C OF 2018 / 19

DRAWING NO.  
**E1.1**





**GENERAL SHEET NOTES**

- REFER TO DRAWINGS E0.1 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND LIGHTING FIXTURE SCHEDULE AND DRAWING E7.1 FOR DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF LIGHTING FIXTURES AND CONTROL DEVICES.
- AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES IN THE CONTRACT AREA AND RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURES. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.

**KEYED SHEET NOTES**

- PROVIDE NEW DIMMER SWITCHES WITH COVER PLATE IN NEW SURFACE MOUNTED BACKBOX. COORDINATE EXACT CONNECTION REQUIREMENTS WITH LIGHTING MANUFACTURER PRIOR TO INSTALLATION.
- CONTRACTOR TO FIELD VERIFY SOURCE OF THE EXISTING LIGHTING CIRCUIT PRIOR TO COMMENCING NEW LIGHTING INSTALLATION. CIRCUIT NUMBER SHOWN FOR REFERENCE ONLY. PROVIDE NEW OCCUPANCY SENSOR AND ROOM CONTROLLER AS SHOWN. REWIRE THE LIGHT FIXTURES, SWITCHES AND ROOM CONTROLLER TO ACCOMMODATE NEW LIGHTING FIXTURES LAYOUT AND CONTROLS AS REQUIRED. REFER TO DETAIL #3 ON DWG E7.1 FOR WIRING DIAGRAM.
- CONTRACTOR TO FIELD VERIFY SOURCE OF THE EXISTING LIGHTING CIRCUIT PRIOR TO COMMENCING NEW LIGHTING INSTALLATION. CIRCUIT NUMBER IS SHOWN FOR REFERENCE ONLY. PROVIDE NEW TOGGLE SWITCH WITH COVER PLATE AND NEW LIGHTING FIXTURES IN EXISTING BACKBOXES. EXISTING WIRING TO REMAIN IN PLACE.
- EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS SERVING THIS AREA ARE EXISTING TO REMAIN.
- CONNECT AHEAD OF LOCAL SWITCH SERVING AREA.



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SCHOOL & LOCATION  
**OVERBROOK EDUCATIONAL CENTER**

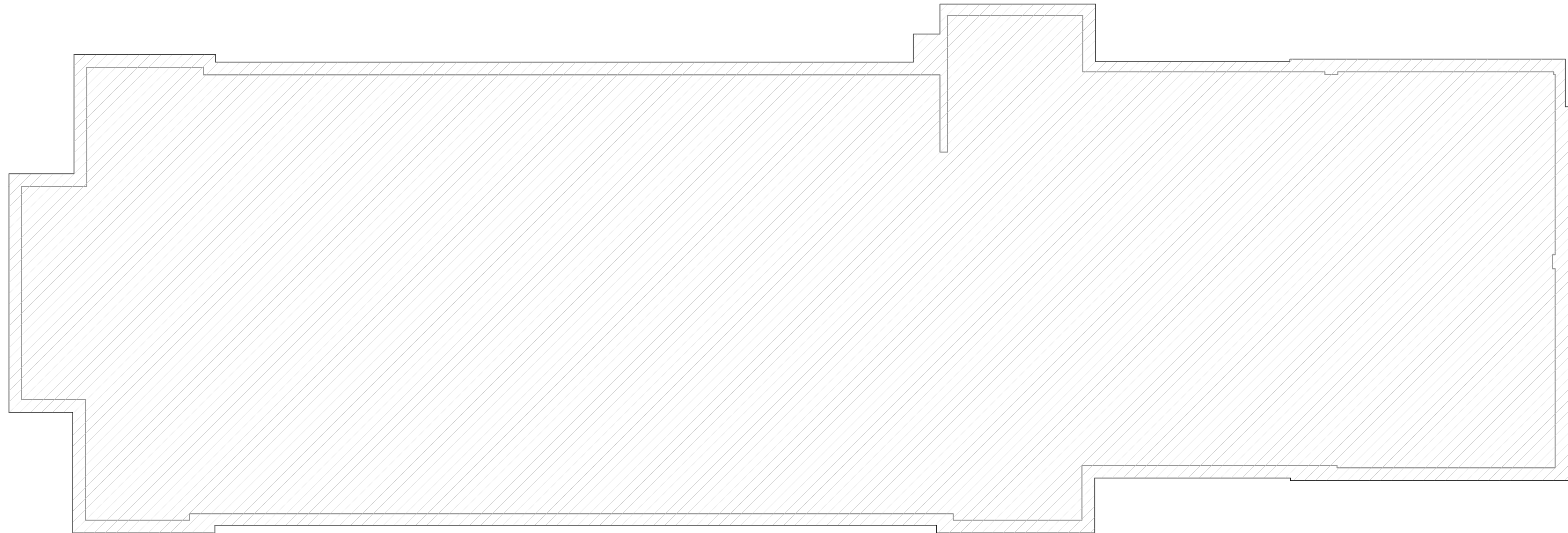
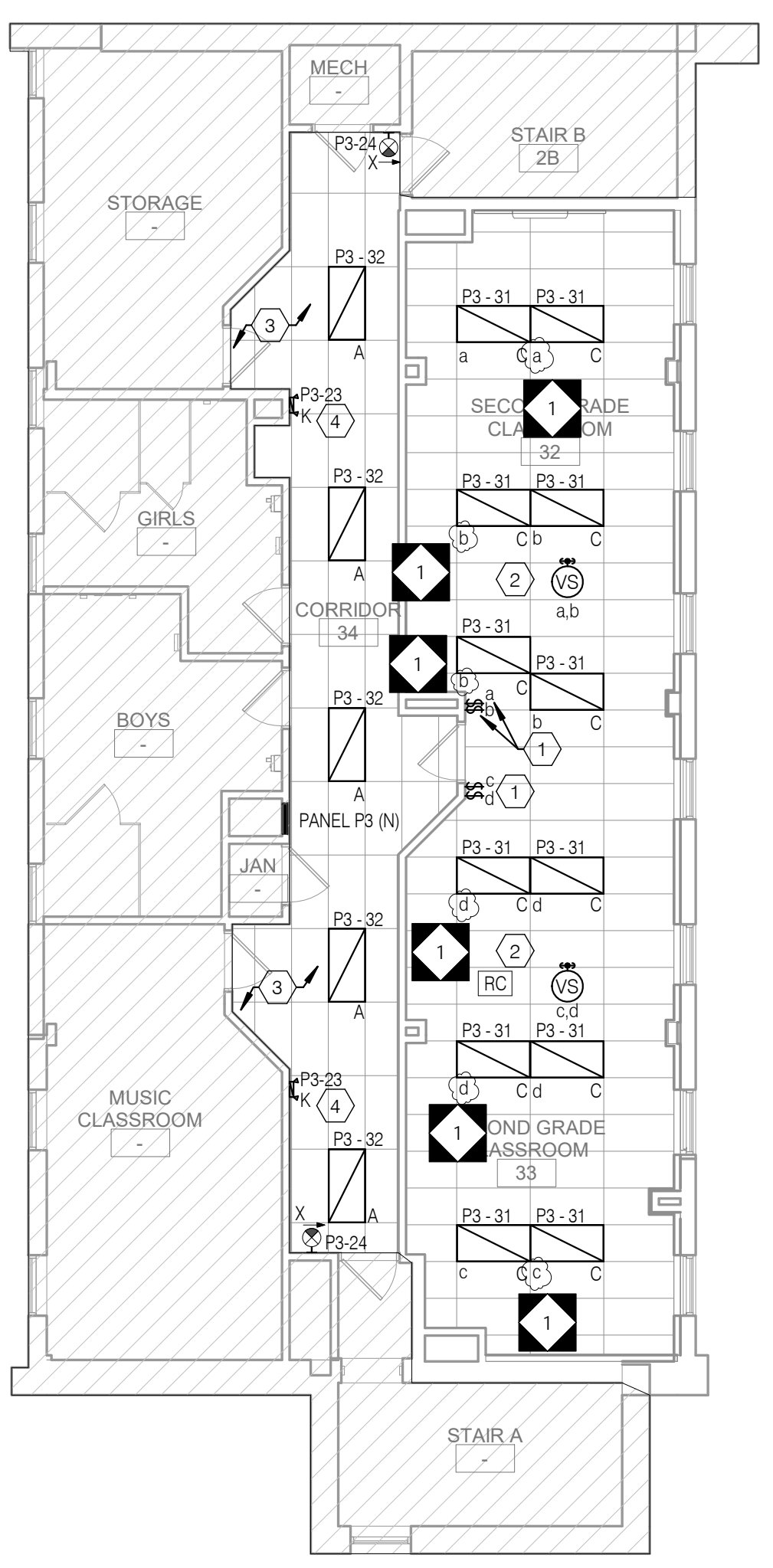
6722 LANSDOWNE AVENUE,  
PHILADELPHIA, PA 19151

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**ELECTRICAL SECOND FLOOR LIGHTING PLAN**

LOCATION NO.	FILE NO.
DRAWN BY NBS	CHECKED BY DAT
B-039C OF 2018 / 19	B-040C OF 2018 / 19

DRAWING NO.  
**E1.2**



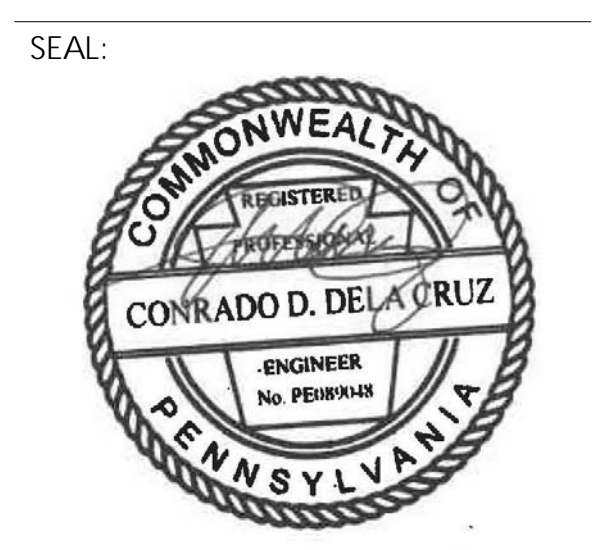
**GENERAL SHEET NOTES**

- REFER TO DRAWING E0.1 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND LIGHTING FIXTURE SCHEDULE AND DRAWING E7.1 FOR DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF LIGHTING FIXTURES AND CONTROL DEVICES.
- AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES IN THE CONTRACT AREA AND RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURES. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.

**KEYED SHEET NOTES**

- PROVIDE NEW DIMMER SWITCHES WITH COVER PLATE IN EXISTING BACKBOX. COORDINATE EXACT CONNECTION REQUIREMENTS WITH LIGHTING MANUFACTURER PRIOR TO INSTALLATION.
- CONTRACTOR TO FIELD VERIFY SOURCE OF THE EXISTING LIGHTING CIRCUIT PRIOR TO COMMENCING NEW LIGHTING INSTALLATION. CIRCUIT NUMBER SHOWN FOR REFERENCE ONLY. PROVIDE NEW OCCUPANCY SENSOR AND ROOM CONTROLLER AS SHOWN. REWIRE THE LIGHT FIXTURES, SWITCHES AND ROOM CONTROLLER TO ACCOMMODATE NEW LIGHTING FIXTURES LAYOUT AND CONTROLS AS REQUIRED. REFER TO DETAIL #3 ON DWG E7.1 FOR WIRING DIAGRAM.
- CONTRACTOR TO FIELD VERIFY SOURCE OF THE EXISTING LIGHTING CIRCUIT PRIOR TO COMMENCING NEW LIGHTING INSTALLATION. CIRCUIT NUMBER IS SHOWN FOR REFERENCE ONLY. PROVIDE NEW TOGGLE SWITCH WITH COVERPLATE AND NEW LIGHTING FIXTURES IN EXISTING BACKBOXES. EXISTING WIRING TO REMAIN IN PLACE.
- CONNECT AHEAD OF LOCAL SWITCH SERVING AREA.

1 ELECTRICAL THIRD FLOOR LIGHTING PLAN  
1/8" = 1'-0"



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STATE AND LICENSE NO. PE089048

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PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**ELECTRICAL THIRD FLOOR LIGHTING PLAN**

LOCATION NO.	FILE NO.
DRAWN BY NBS	CHECKED BY DAT
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DRAWING NO.  
**E1.3**

SEAL:



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STATE AND LICENSE NO. PE09048

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**GENERAL SHEET NOTES**

- REFER TO DRAWING E01 FOR ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- REFER TO ARCHITECTURAL DRAWINGS, ELEVATION & DETAILS FOR EXACT LOCATION OF ELECTRICAL DEVICES.
- ALL RECEPTACLES, TELEDATA OUTLETS WITH ASSOCIATED WIRING, CONDUIT, RACEWAYS, ETC SHALL BE SURFACE MOUNTED ON EXISTING WALLS AND FLUSH MOUNTED ON NEW WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES.
- ALL THE RECEPTACLES AND DATA OUTLETS WITHIN THE SCOPE OF WORK AREAS THAT ARE EXISTING TO REMAIN SHALL BE PROVIDED WITH NEW DEVICES. NEW DEVICE COLOR SHALL BE WHITE.
- ALL NEW 15- AND 20-AMPERE, 125- AND 250-VOLT NON-LOCKING TYPE RECEPTACLES SHALL BE TAMPER RESISTANT AS PER NEC ARTICLE 407.
- ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS.

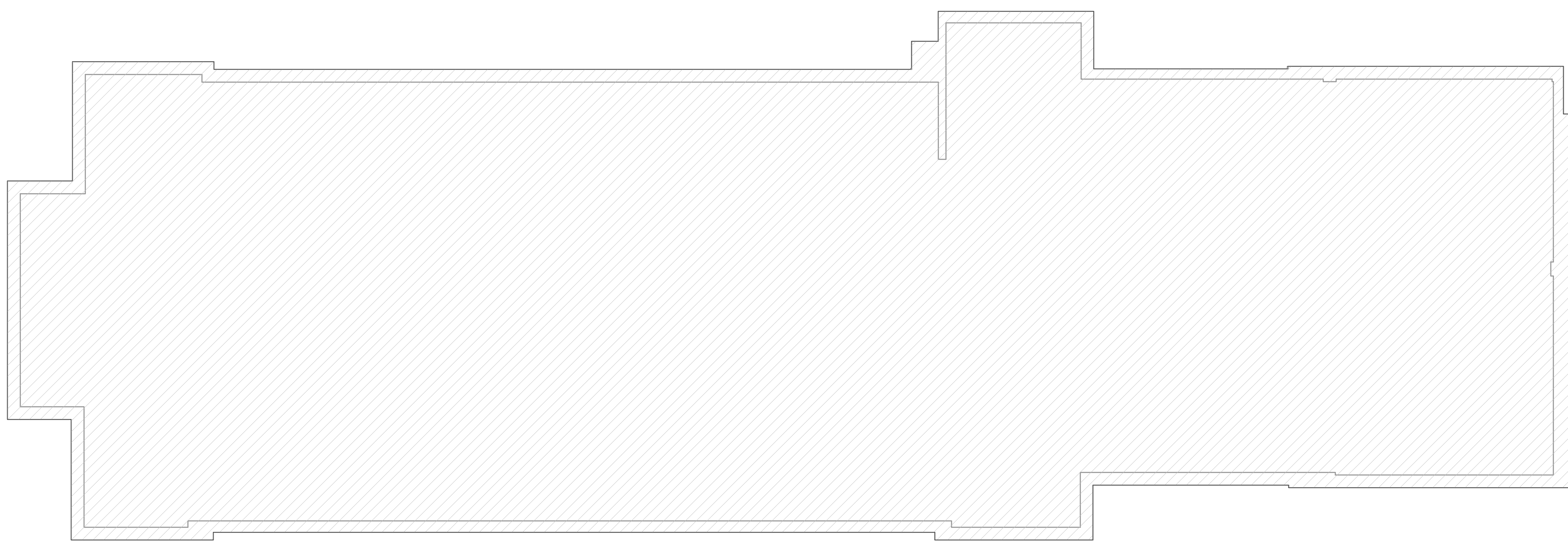
**KEYED SHEET NOTES**

- CONTRACTOR TO COORDINATE IN FIELD FOR EXACT LOCATION OF RECEPTACLE, DATA OUTLET, AND ASSOCIATED CONDUIT/RACEWAY SERVING THE INTERACTIVE SMARTBOARD TO AVOID CONFLICT WITH BASE PLATE. REFER TO ARCHITECTURAL DRAWING AS 1 DETAIL #1 AND #2 FOR EXACT LOCATION AND MOUNTING HEIGHT.
- PROVIDE NEW TAMPER RESISTANT DEDICATED DUPLEX RECEPTACLE FOR LAPTOP CHARGING STATION.
- NEW LOCATION OF RELOCATED PA SPEAKER. COORDINATE IN FIELD FOR EXACT LOCATION.
- PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT.
- CONTRACTOR TO FIELD TEST FUNCTIONALITY OF EXISTING TELEPHONE OUTLETS AND REPLACE AS REQUIRED. NEW TO MATCH EXISTING IN KIND MAKE AND TYPE.
- CONTRACTOR TO PROVIDE NEW TELEPHONE OUTLET. COORDINATE WITH SDP FOR NEW WALL MOUNTED TELEPHONE. NEW TO MATCH EXISTING BASE BUILDING STANDARD IN MAKE AND TYPE.
- PROVIDE NEW CAT6 CABLE, DATA OUTLETS WITH COVERPLATE AND RECONNECT TO EXISTING PATCH PANEL.
- NEW PANELBOARD "P1". CONTRACTOR TO UTILIZE, INTERCEPT, AND EXTEND ALL ACTIVE FEEDER AND BRANCH CIRCUIT WIRING/CONDUIT OF SAME SIZE VIA NEW JUNCTION BOX OR PULL BOX AND CONNECT IT TO THE NEW PANEL BOARD.
- CONTRACTOR TO PROVIDE 30dbd AUDIO VISUAL FIRE ALARM DEVICE AND TIE INTO EXISTING BUILDING FIRE ALARM RISER. NEW TO MATCH EXISTING BASE BUILDING STANDARDS.
- NEW LOCATION OF EXISTING WIRELESS ACCESS POINT. CONTRACTOR TO EXTEND EXISTING WIRING/CONDUIT AS REQUIRED TO NEW LOCATION. COORDINATE WITH ARCHITECT FOR EXACT LOCATION.
- NEW LOCATION OF EXISTING FIRE ALARM PULL STATION. CONTRACTOR TO EXTEND EXISTING WIRING/CONDUIT AS REQUIRED TO NEW LOCATION.
- PROVIDE JUNCTION BOX FOR NEW BUZZER AND CAMERA SYSTEM. COORDINATE WITH DOOR MANUFACTURER FOR NEW HARDWARE SPECIFICATIONS AND CONNECTION REQUIREMENTS.
- PROVIDE JUNCTION BOX FOR RELOCATED HYDRATION STATION. CONNECT TO EXISTING CIRCUIT PREVIOUSLY SERVING HYDRATION STATION. CIRCUIT NUMBER SHOWN FOR REFERENCE ONLY. COORDINATE WITH PLUMBING DRAWINGS FOR EXACT CONNECTION REQUIREMENTS.



**2** ELECTRICAL BASEMENT POWER PLAN  
E2.1 1/8" = 1'-0"

**1** ELECTRICAL FIRST FLOOR POWER PLAN  
E2.1 1/8" = 1'-0"



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PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**ELECTRICAL FIRST FLOOR POWER AND TECHNOLOGY PLAN**

LOCATION NO.	FILE NO.
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NBS	DAT
B-039C	OF 2018 / 19
B-040C	OF 2018 / 19

DRAWING NO.  
**E2.1**

SEAL:



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STATE AND LICENSE NO. PE099148

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PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**ELECTRICAL SECOND FLOOR POWER AND TECHNOLOGY PLAN**

LOCATION NO.	FILE NO.
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NBS	DAT
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DRAWING NO.

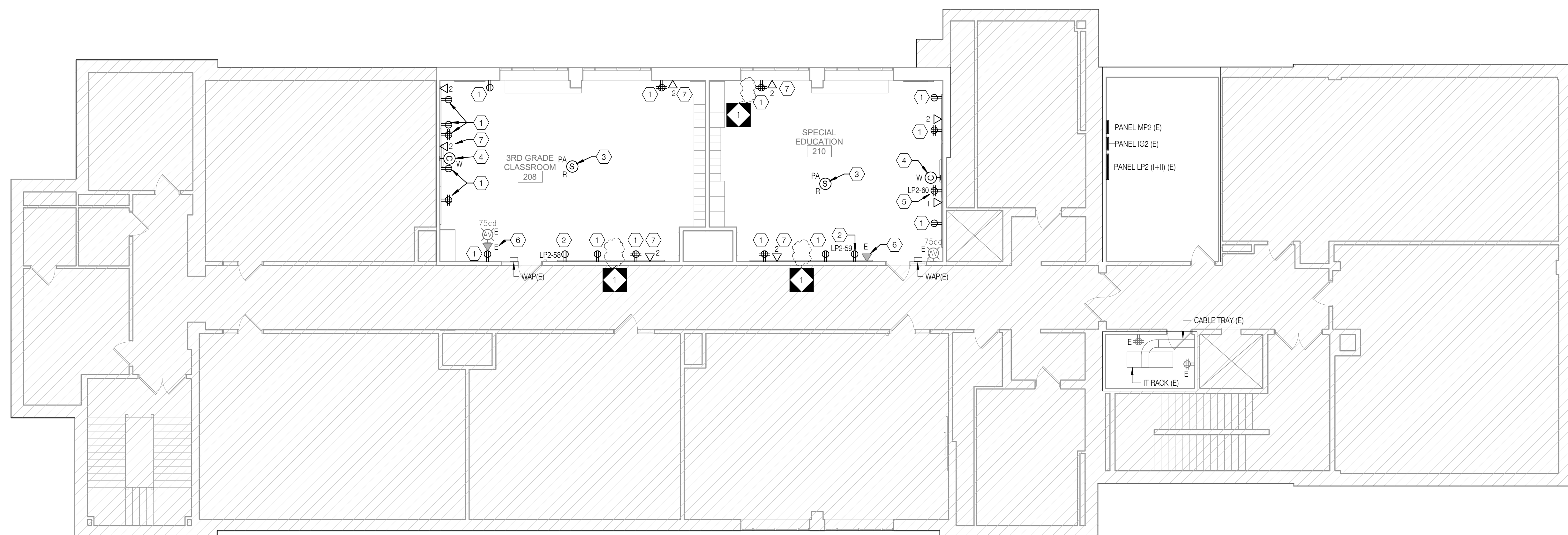
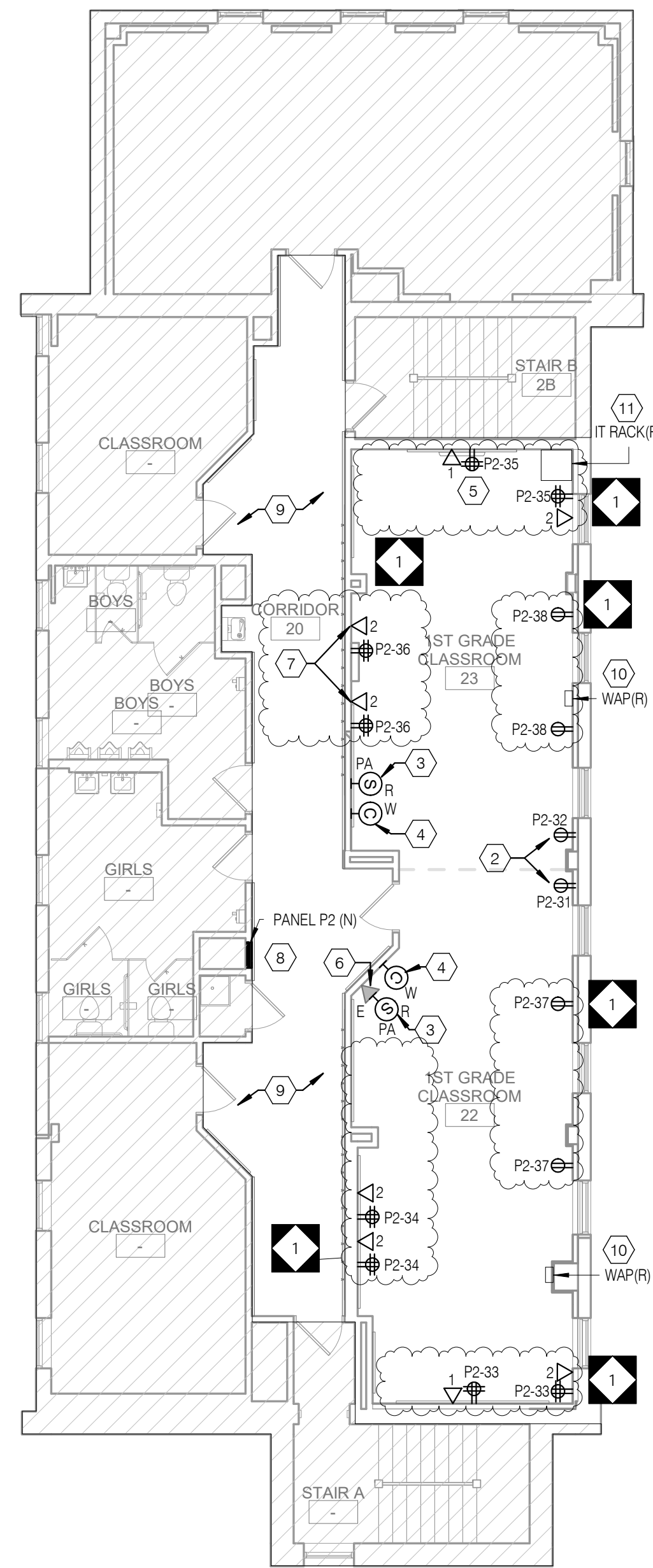
**E2.2**

**GENERAL SHEET NOTES**

- REFER TO DRAWING E0.1 FOR ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- REFER TO ARCHITECTURAL DRAWINGS, ELEVATION & DETAILS FOR EXACT LOCATION OF ELECTRICAL DEVICES.
- ALL RECEPTACLES, TELEPHONE OUTLETS WITH ASSOCIATED WIRING, CONDUIT, RACEWAYS, ETC SHALL BE SURFACE MOUNTED ON EXISTING WALLS AND FLUSH MOUNTED ON NEW WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES.
- ALL THE RECEPTACLES AND DATA OUTLETS WITHIN THE SCOPE OF WORK AREAS THAT ARE EXISTING TO REMAIN SHALL BE PROVIDED WITH NEW DEVICES. NEW DEVICE COLOR SHALL BE WHITE.
- ALL NEW 15- AND 20-AMPERE, 125- AND 250-VOLT NON-LOCKING TYPE RECEPTACLES SHALL BE TAMPER RESISTANT AS PER NEC 404.12.
- ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS.

**KEYED SHEET NOTES**

- PROVIDE NEW TAMPER RESISTANT RECEPTACLE WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.
- PROVIDE NEW TAMPER RESISTANT DEDICATED DUPLEX RECEPTACLE FOR LAPTOP CART CHARGING STATION.
- NEW LOCATION OF RELOCATED PA SPEAKER. COORDINATE IN FIELD FOR EXACT LOCATION.
- PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT.
- CONTRACTOR TO COORDINATE IN FIELD FOR EXACT LOCATION OF RECEPTACLE, DATA OUTLET, AND ASSOCIATED CONDUIT/RACEWAY SERVING THE INTERACTIVE SMARTBOARD TO AVOID CONFLICT WITH BASE PLATE. REFER TO ARCHITECTURAL DRAWING AS 1 DETAIL #1 AND # 2 FOR EXACT LOCATION AND MOUNTING HEIGHT.
- CONTRACTOR TO FIELD TEST FUNCTIONLITY OF EXISTING TELEPHONE OUTLETS AND REPLACE AS REQUIRED. NEW TO MATCH EXISTING IN KIND MAKE AND TYPE.
- PROVIDE NEW CAT6 CABLE, DATA OUTLETS WITH COVERPLATE AND RECONNECT TO EXISTING PATCH PANEL.
- NEW PANELBOARD #22. CONTRACTOR TO UTILIZE, INTERCEPT, AND EXTEND ALL ACTIVE FEEDER AND BRANCH CIRCUIT WIRING/CONDUIT OF SAME SIZE VIA NEW JUNCTION BOX OR FULL BOX AND CONNECT IT TO THE NEW PANEL BOARD.
- UNLESS OTHERWISE NOTED, ALL ELECTRICAL, OUTLETS AND FIRE ALARM DEVICES SERVING THIS AREA ARE EXISTING TO REMAIN.
- NEW LOCATION OF EXISTING WIRELESS ACCESS POINT. CONTRACTOR TO EXTEND EXISTING WIRING/CONDUIT AS REQUIRED TO NEW LOCATION. COORDINATE WITH ARCHITECT FOR EXACT LOCATION.
- NEW LOCATION OF EXISTING IT RACK. CONTRACTOR TO EXTEND EXISTING WIRING/CONDUIT AS REQUIRED TO NEW LOCATION. COORDINATE WITH ARCHITECT FOR EXACT LOCATION.



1 ELECTRICAL SECOND FLOOR POWER PLAN  
E2.2  
1/8" = 1'-0"



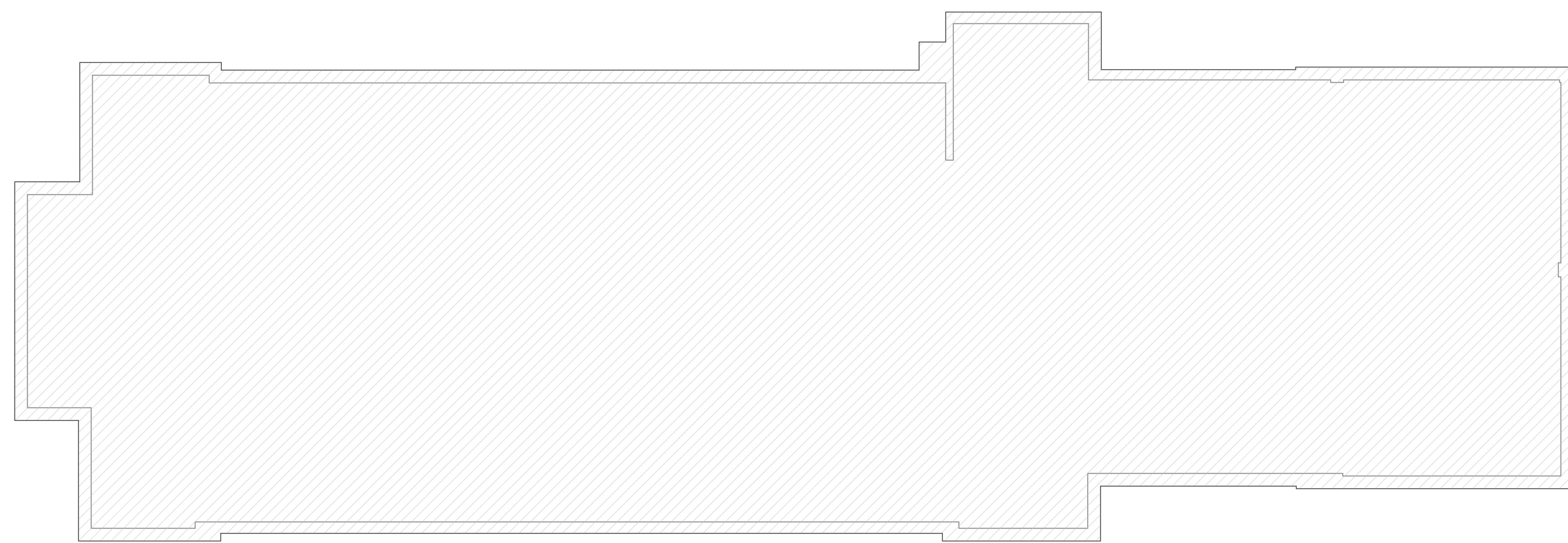
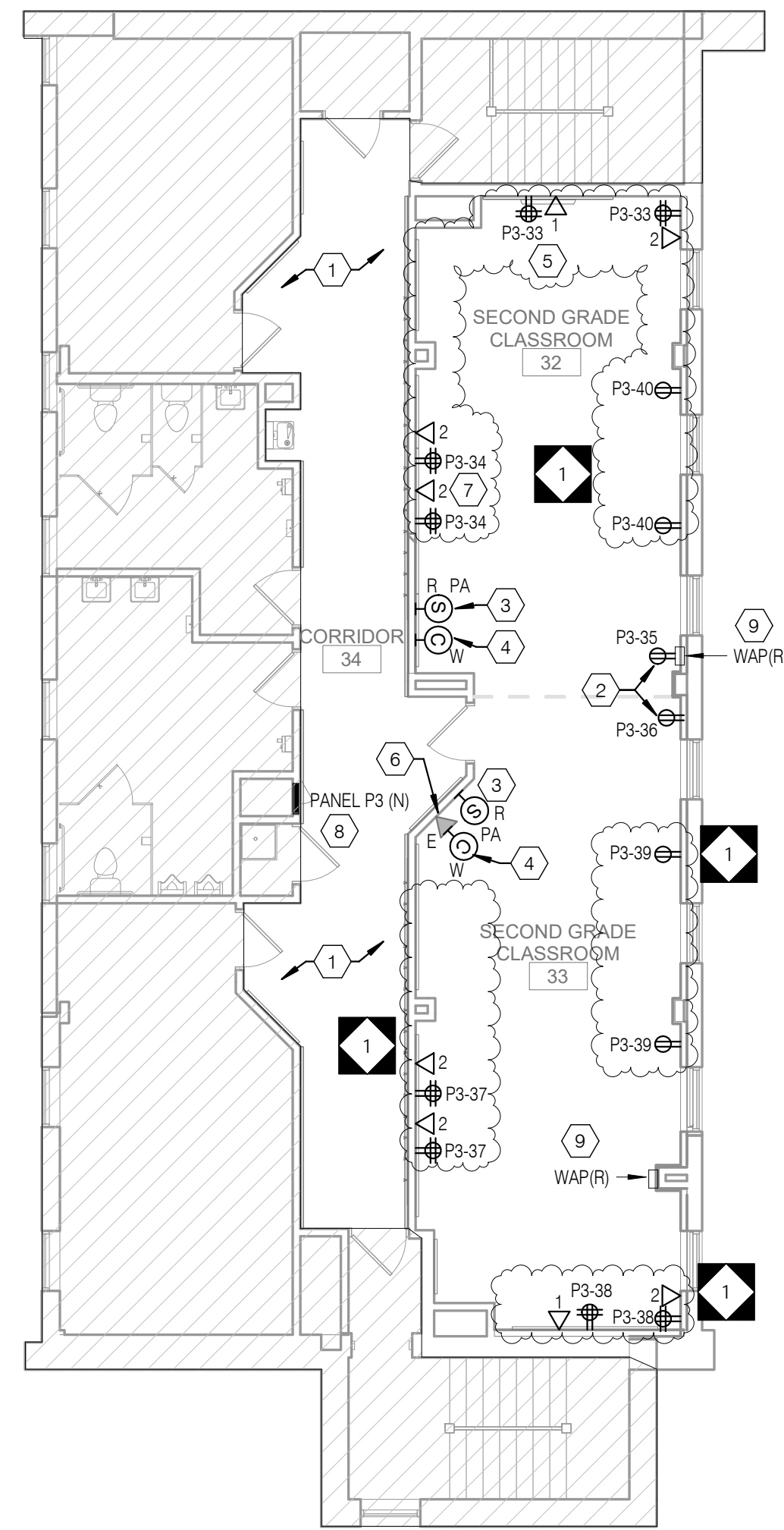


**GENERAL SHEET NOTES**

- REFER TO DRAWING E0.1 FOR ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- REFER TO ARCHITECTURAL DRAWINGS, ELEVATIONS & DETAILS FOR EXACT LOCATION OF ELECTRICAL DEVICES.
- ALL RECEPTACLES, TELEPHONE OUTLETS WITH ASSOCIATED WIRING, CONDUIT, RACEWAYS, ETC SHALL BE SURFACE MOUNTED ON EXISTING WALLS AND FLUSH MOUNTED ON NEW WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES.
- ALL THE RECEPTACLES AND DATA OUTLETS WITHIN THE SCOPE OF WORK AREAS THAT ARE EXISTING TO REMAIN SHALL BE PROVIDED WITH NEW DEVICES. NEW DEVICE COLOR SHALL BE WHITE.
- ALL NEW 15- AND 20-AMPERE, 125- AND 250-VOLT NON-LOCKING TYPE RECEPTACLES SHALL BE TAMPER RESISTANT AS PER NEC 408.12.
- ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS.

**KEYED SHEET NOTES**

- UNLESS OTHERWISE NOTED, ALL ELECTRICAL OUTLETS AND FIRE ALARM DEVICES SERVING THIS AREA ARE EXISTING TO REMAIN.
- PROVIDE NEW TAMPER RESISTANT DEDICATED DUPLEX RECEPTACLE FOR LAPTOP CART CHARGING STATION.
- NEW LOCATION OF RELOCATED PA SPEAKER. COORDINATE IN FIELD FOR EXACT LOCATION.
- PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT.
- CONTRACTOR TO COORDINATE IN FIELD FOR EXACT LOCATION OF RECEPTACLE, DATA OUTLET, AND ASSOCIATED CONDUIT/RACEWAY SERVING THE INTERACTIVE SMARTBOARD TO AVOID CONFLICT WITH BASE PLATE. REFER TO ARCHITECTURAL DRAWING AS 1 DETAIL #1 AND #2 FOR EXACT LOCATION AND MOUNTING HEIGHT.
- CONTRACTOR TO TEST FUNCTIONALITY OF EXISTING TELEPHONE OUTLETS AND REPLACE AS REQUIRED. NEW TO MATCH EXISTING IN KIND MAKE AND TYPE.
- PROVIDE NEW CAT6 CABLE. DATA OUTLETS WITH COVERPLATE AND RECONNECT TO EXISTING PATCH PANEL.
- NEW PANELBOARD: CONTRACTOR TO UTILIZE INTERCEPT, AND EXTEND ALL ACTIVE FEEDER AND BRANCH CIRCUIT WIRING/CONDUIT OF SAME SIZE VIA NEW JUNCTION BOX OR PULL BOX AND CONNECT IT TO THE NEW PANEL BOARD.
- NEW LOCATION OF EXISTING WIRELESS ACCESS POINT. CONTRACTOR TO EXTEND EXISTING WIRING/CONDUIT AS REQUIRED TO NEW LOCATION. COORDINATE WITH ARCHITECT FOR EXACT LOCATION.



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1/22/2020

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NO.	DATE	REVISION

SCHOOL & LOCATION  
**OVERBROOK EDUCATIONAL CENTER**

6722 LANSDOWNE AVENUE,  
PHILADELPHIA, PA 19151

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**ELECTRICAL THIRD FLOOR POWER AND TECHNOLOGY PLAN**

LOCATION NO.	FILE NO.
DRAWN BY NBS	CHECKED BY DAT
B-039C OF 2018 / 19	B-040C OF 2018 / 19

DRAWING NO.

**E2.3**

PANELBOARD: P3 (N) LOCATION: CORRIDOR 34 VOLTAGE: 120/240V, 1PH, 3 WIRE MOUNTING: RECESSED TYPE 1 A.I.C. RATING: 10 K SPECIAL: MAIN DEVICE: 100 A BUS AMPS: 100 A

PANELBOARD: P2 (N) LOCATION: CORRIDOR 20 VOLTAGE: 120/240V, 1PH, 3 WIRE MOUNTING: RECESSED TYPE 1 A.I.C. RATING: 10 K SPECIAL: MAIN DEVICE: 100 A BUS AMPS: 100 A

PANELBOARD: P1 (N) LOCATION: SMALL GROUP INSTR. 7 VOLTAGE: 120/240V, 1PH, 3 WIRE MOUNTING: RECESSED TYPE 1 A.I.C. RATING: 10 K SPECIAL: MAIN DEVICE: 100 A BUS AMPS: 100 A

PANELBOARD: LP2(E) LOCATION: 2ND FLOOR ELEC. RM VOLTAGE: 208Y/120 V, 3 Ø 4 W. MOUNTING: Surface Type 1 A.I.C. RATING: 10K SPECIAL: MAIN DEVICE: 225 A BUS AMPS: 225 A



Revision table with columns for NO., DATE, REVISION, and ADDENDUM #1

SCHOOL & LOCATION OVERBROOK EDUCATIONAL CENTER

6722 LANSDOWNE AVENUE, PHILADELPHIA, PA 19151

PROJECT TITLE CLASSROOM MODERNIZATION

DRAWING TITLE

ELECTRICAL PANEL SCHEDULES

Table with columns for LOCATION NO., FILE NO., DRAWN BY, CHECKED BY, DATE, and REVISION

DRAWING NO. E6.1

KEY PANELS table with columns for 'P3', 'P2', 'P1', and 'LP2'

PANEL BOARD SCHEDULE NOTES

- 1. TURN ALL SPARE CIRCUIT BREAKERS TO 'OFF' POSITION AT COMPLETION OF WORK.
2. PROVIDE TYPED SCHEDULE FOR PANEL BOARDS UTILIZED AT COMPLETION OF PROJECT INDICATING ACTUAL AS-BUILT CONDITIONS.
3. NEW CIRCUIT BREAKER (IF PROVIDED) MUST BE COMPATIBLE WITH EXISTING PANELBOARD (AS LISTED, MANUFACTURED BY THE PANELBOARD MANUFACTURER AND WHICH HAVE AN AIC RATING TO MATCH THE EXISTING PANEL RATING).
4. ALL SPARE CIRCUIT BREAKERS NUMBER MADE AVAILABLE AFTER DEMOLITION ARE BASED ON THE EXISTING DOCUMENTS AND MAY BE INACCURATE. THE ACTUAL CIRCUIT NUMBERS MAY BE DIFFERENT AND SHALL BE VERIFIED IN FIELD DURING CONSTRUCTION.
5. PROVIDE ARC FLASH WARNING LABELS FOR ALL NEW PANEL BOARDS.

A B C D E F

SEAL:



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STATE AND LICENSE NO. PE09918

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A

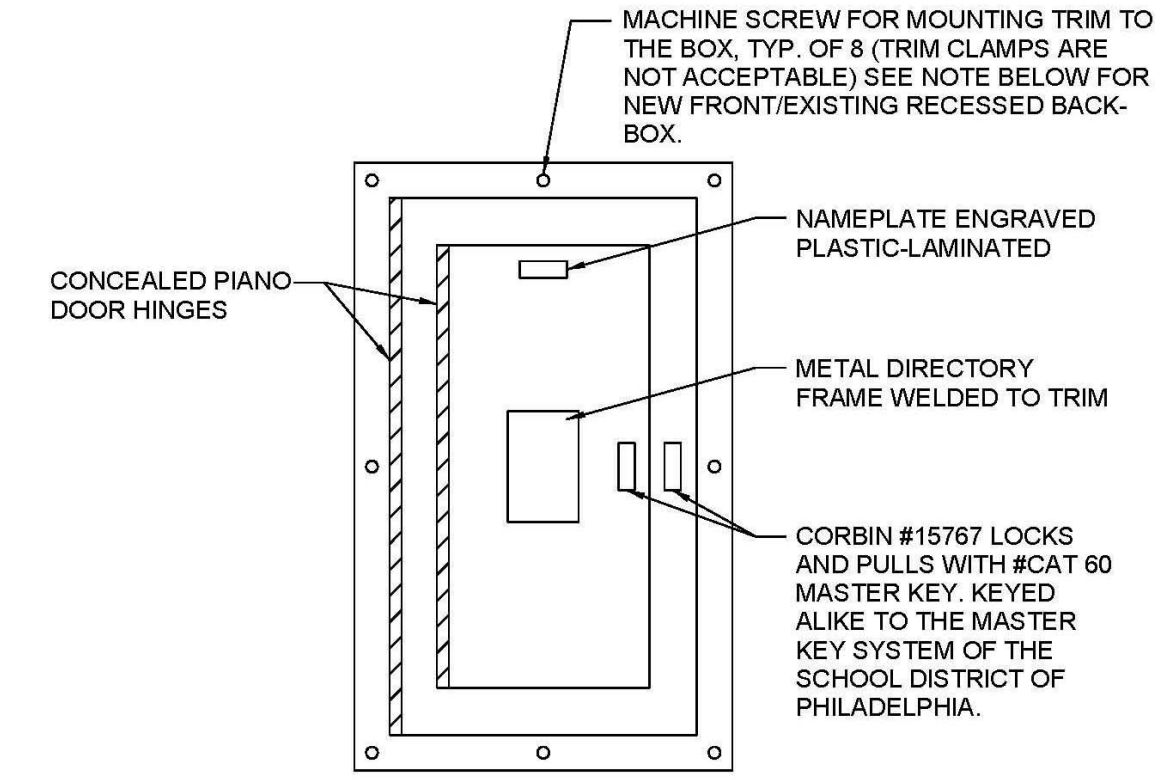
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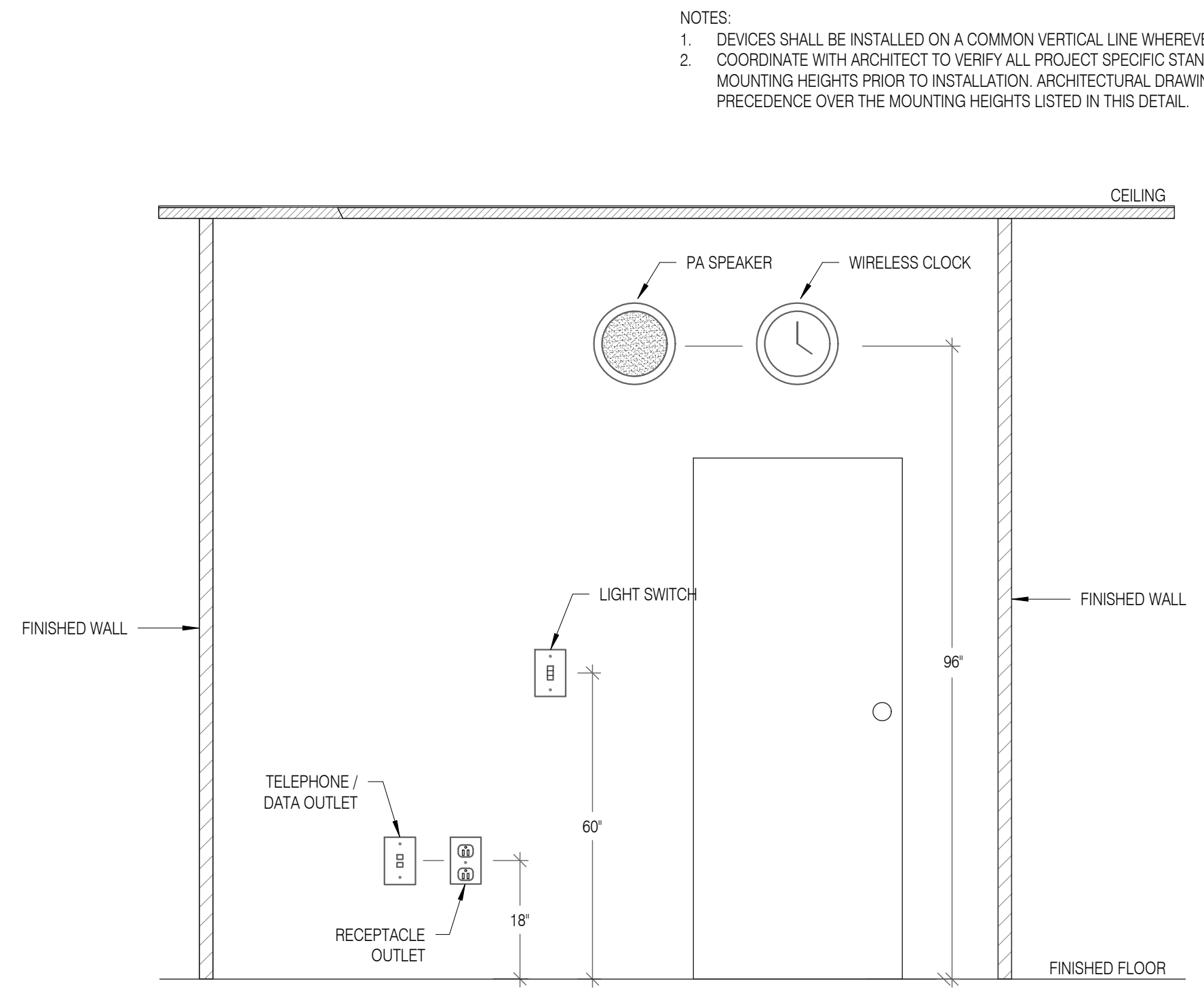
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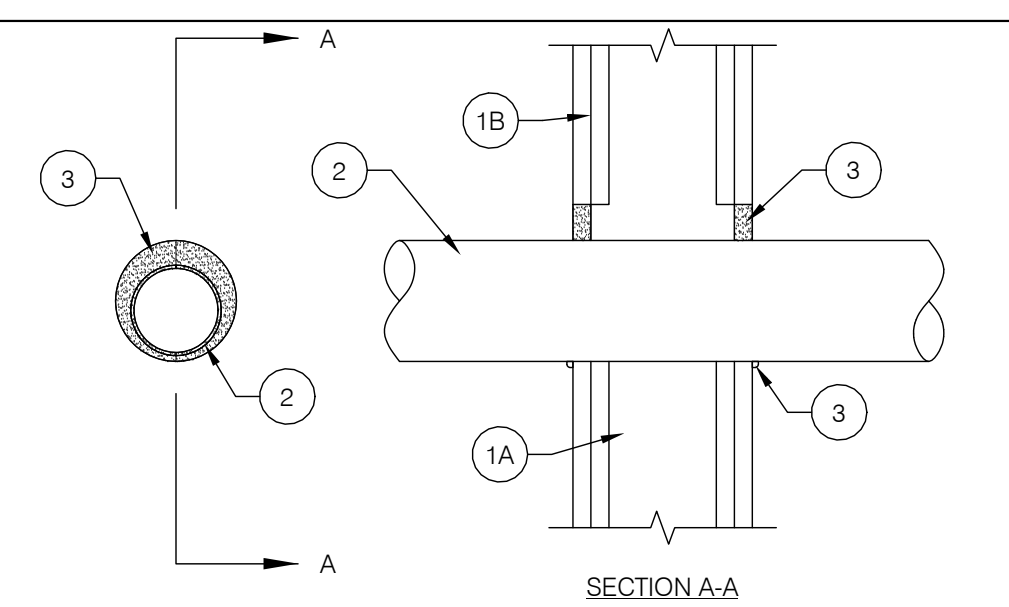
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4 PANELBOARD FRONT STANDARD  
E7.1 NTS



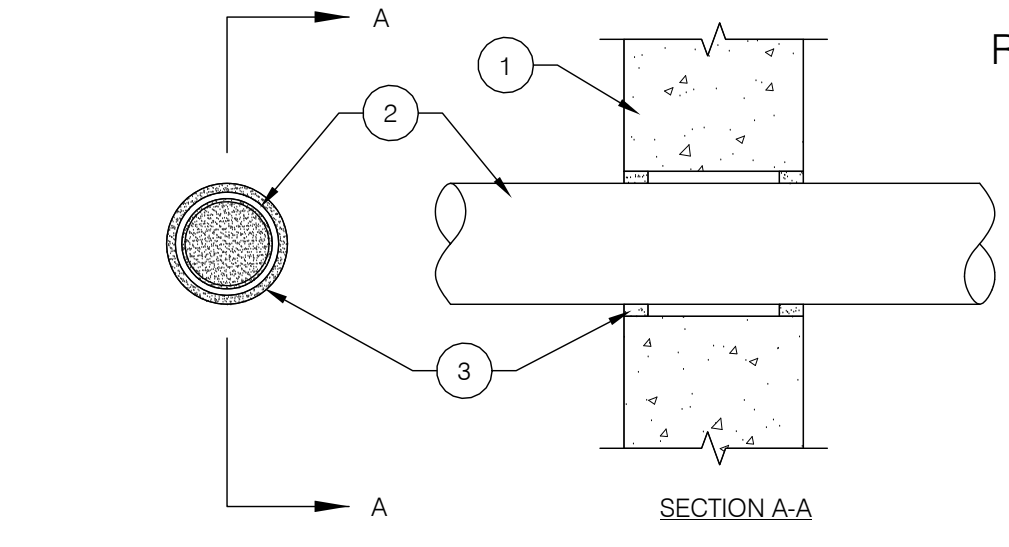
2 TYPICAL DEVICE MOUNTING HEIGHTS DETAIL  
E7.1 NTS



**GYPSUM WALLBOARD**  
F RATINGS - 1 AND 2 HR  
T RATING - 0 HR  
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT  
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT

1. WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL US90 OR L400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
  - 1.1. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE AND SPACED MAX 24 IN. OC.
  - 1.2. GYPSUM BOARD\* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IN WOOD STUD WALLS IS 8 IN. MAX DIAM OF OPENING IN STEEL STUD WALLS IS 14 IN. THE HOURLY F RATING OF THE FIRE STOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED WITHIN THE FIRE STOP SYSTEM. THE SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE A MIN 0 IN. (POINT CONTACT) TO A MAX 2 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
  - 2.1. STEEL PIPE - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 5 (OR HEAVIER STEEL PIPE).
  - 2.2. IRON PIPE - NOM 12 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
  - 2.3. CONDUIT - NOM 4 IN. DIAM (OR SMALLER) ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT.
  - 2.4. COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
  - 2.5. COPPER PIPE - NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
3. FILL VOID OR CAVITY MATERIAL\* - CAULK - MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 3/8 IN. DIAM BEAD OF FILL MATERIAL APPLIED AT POINT CONTACT LOCATION AT THE PENETRANT/GYPSUM BOARD INTERFACE ON BOTH SIDES OF WALL.

PENETRATIONS THROUGH STRUCTURE SHALL MAINTAIN FIRE RESISTANCE AND COMPLY WITH SECTION 713.4 OF THE IBC 2018. ALL ANNULAR SPACES BETWEEN RATED STRUCTURE/ENCLOSURE SHALL BE FILLED WITH APPROVED MATERIAL COMPLYING WITH REQUIREMENTS OF UL 1479.



**REINFORCED CONCRETE**  
F RATING - 2 HR  
T RATING - 0 HR

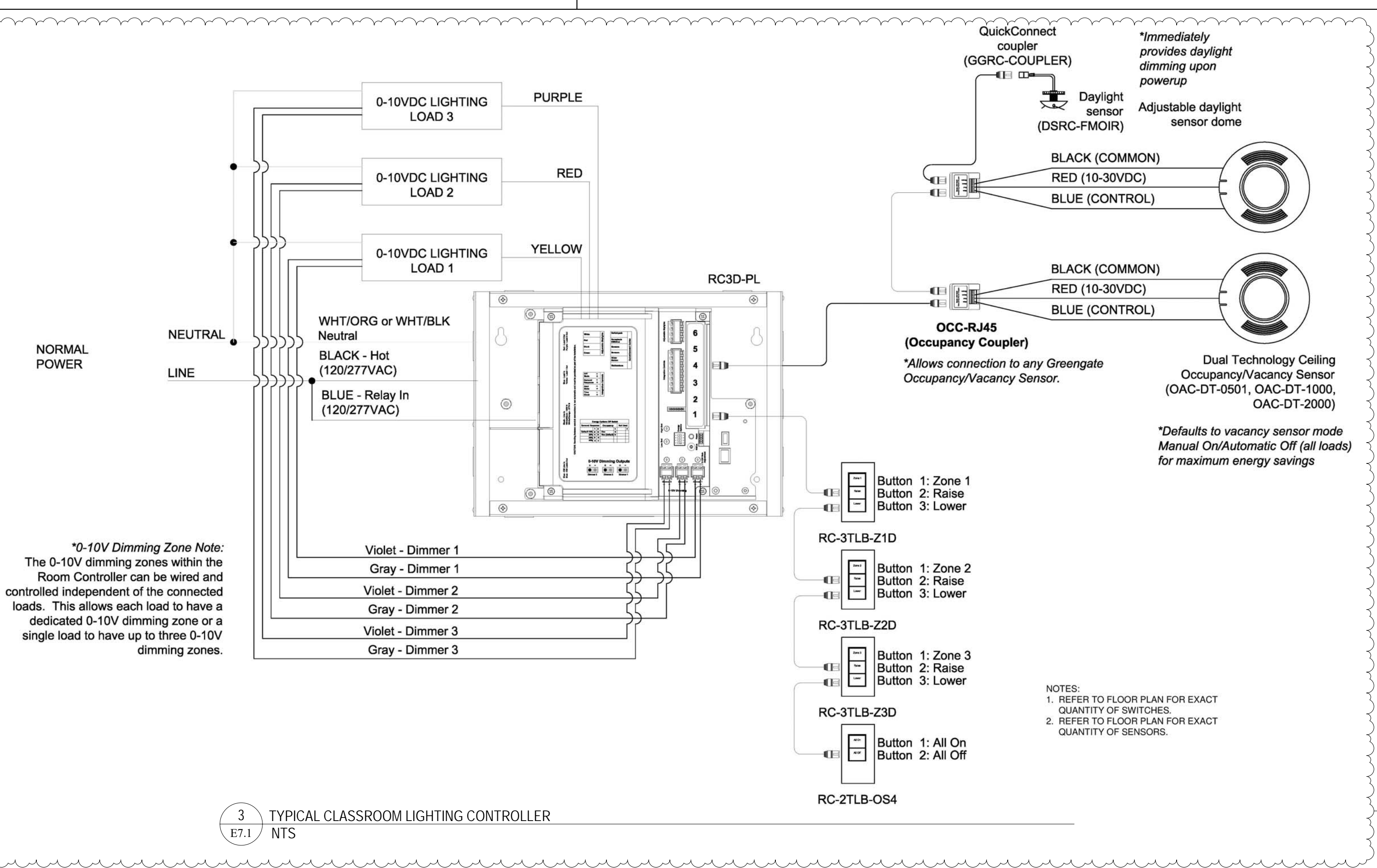
1. WALL ASSEMBLY - MIN 8 IN. (192 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*. MAX DIAM OF OPENING IS 25 IN. (635 MM). SEE CONCRETE BLOCKS (CAZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR THE NAMES OF MANUFACTURERS.
2. THROUGH PENETRANT - ONE METALLIC PIPE, TUBING OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPES, TUBING OR CONDUITS AND PERIPHERY OF OPENING IS DEPENDENT UPON THE TYPE AND MAX DIAM OF THE THROUGH PENETRANT AS TABULATED BELOW. PIPE, TUBING OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, TUBING OR CONDUITS MAY BE USED:
  - 2.1. STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
  - 2.2. IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
  - 2.3. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
  - 2.4. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
  - 2.5. CONDUIT - NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. (152 MM) DIAM GALV STEEL CONDUIT OR NOM 1 IN. DIAM FLEXIBLE STEEL CONDUIT.

TYPE OF THROUGH PENETRANT	MAX DIAM OF THROUGH PENETRANT, IN. (MM)	MIN & MAX ANNULAR SPACE, IN. (MM)
STEEL OR IRON PIPE	4 (102)	0.1-1/2 (38)
STEEL TUBING OR CONDUIT	4 (102)	0.1-1/2 (38)
STEEL CONDUIT	6 (152)	1/8 (3), 1/2 (13)
STEEL OR IRON PIPE	24 (610)	1/8 (3), 1/2 (13)
COPPER TUBING OR PIPE	6 (152)	1/8 (3), 1/2 (13)

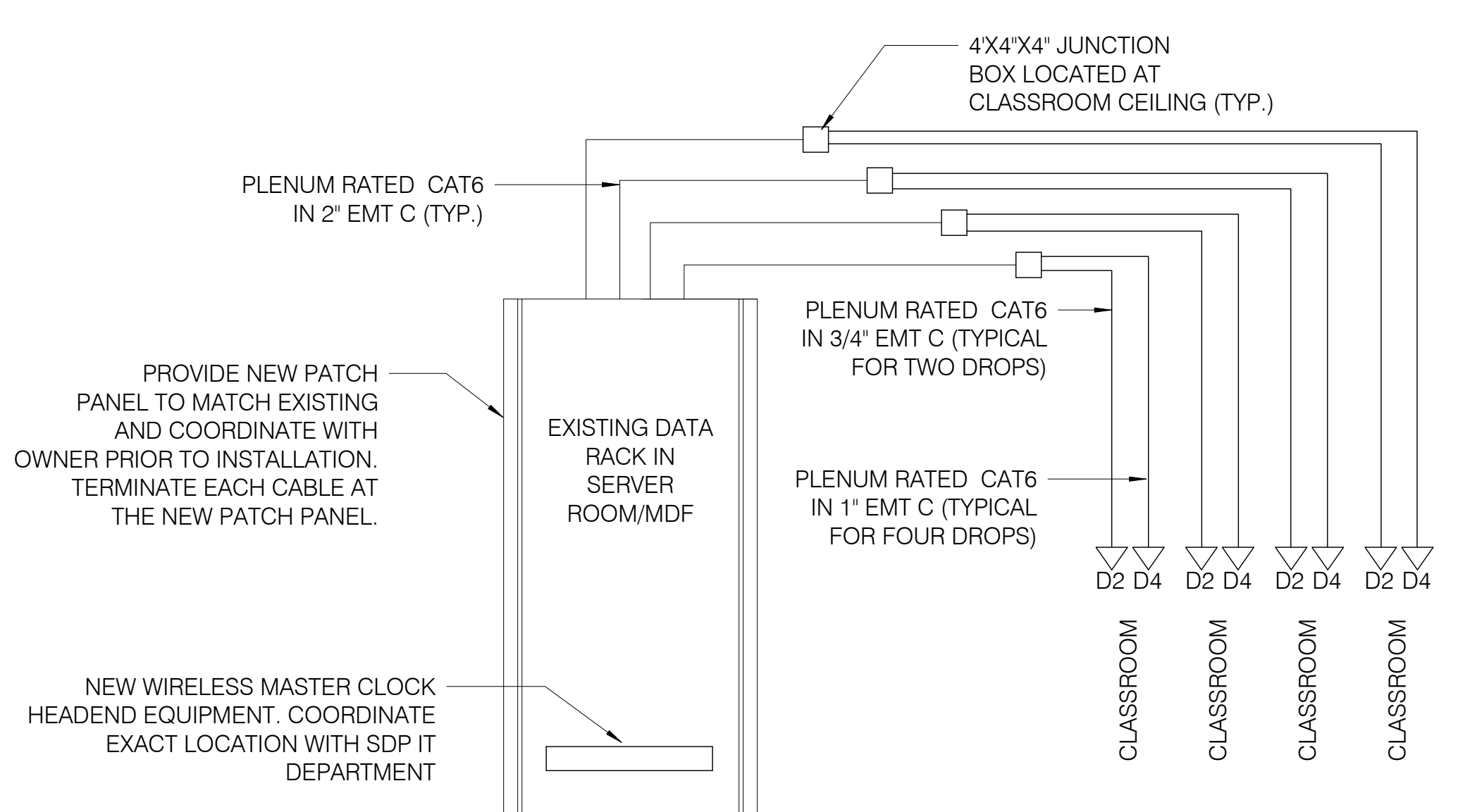
3. FILL VOID OR CAVITY MATERIAL\* - SEALANT - MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN THROUGH PENETRANT AND CONCRETE. A MIN 3/8 IN. (10 MM) DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/THROUGH PENETRANT INTERFACE ON BOTH SURFACES OF WALL.

PENETRATIONS THROUGH STRUCTURE SHALL MAINTAIN FIRE RESISTANCE AND COMPLY WITH SECTION 713.4 OF THE IBC 2018. ALL ANNULAR SPACES BETWEEN RATED STRUCTURE/ENCLOSURE SHALL BE FILLED WITH APPROVED MATERIAL COMPLYING WITH REQUIREMENTS OF UL 1479.

1 THROUGH-PENETRATION FIRE STOP DETAIL  
E7.1 NTS

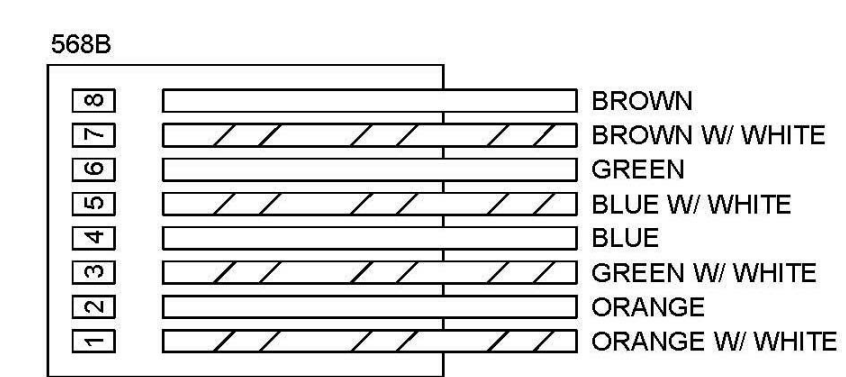


3 TYPICAL CLASSROOM LIGHTING CONTROLLER  
E7.1 NTS



6 PARTIAL DATA RISER DIAGRAM  
E7.1 NTS

- NOTES:
1. ELECTRICAL CONTRACTOR TO TEST EACH INDIVIDUAL DATA DROP AFTER TERMINATION AND PROVIDE A REPORT OF ALL DROPS TO SDP IT DEPARTMENT. SDP IT DEPARTMENT WILL BE RESPONSIBLE FOR FINAL CONNECTION AND ACTIVATION.
  2. FOR EXACT NUMBER AND LOCATION OF DATA OUTLETS SEE NEW WORK POWER FLOOR PLANS.
  3. FOR ALL COMMUNICATION REQUIREMENT SEE SPECIFICATION 271300 (COMMUNICATION SYSTEM).
  4. REFER TO SHEET E2.1 FOR EXACT LOCATION OF MDF ROOM.



- NOTE
1. ALL RJ45 TERMINATION POINTS SHALL BE CONFIGURED TO THE EIA/TIA 568B STANDARD UNLESS SPECIFICALLY DIRECTED OTHERWISE BY SDP AUTHORIZED REPRESENTATIVE.

5 RJ45 TERMINATION DETAIL  
E7.1 NTS

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NO.	DATE	REVISION

SCHOOL & LOCATION  
**OVERBROOK EDUCATIONAL CENTER**

6722 LANSDOWNE AVENUE,  
PHILADELPHIA, PA 19151

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

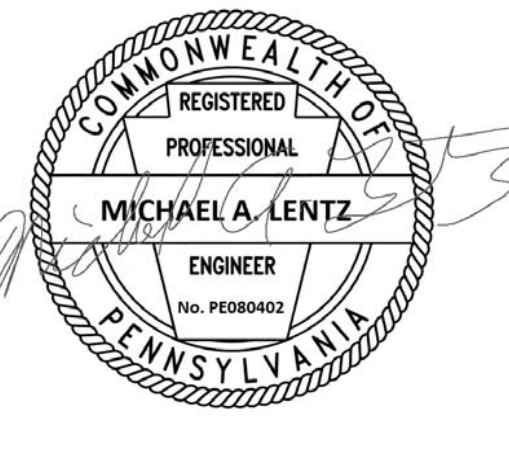
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**ELECTRICAL DETAILS**

LOCATION NO.	FILE NO.
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B-039C OF 2018 / 19	B-040C OF 2018 / 19

DRAWING NO.  
**E7.1**



SEAL:



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STATE AND LICENSE NO. PE080402

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**GENERAL PLUMBING NOTES**

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL PLUMBING CODE AND THE AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND TAXES.
- CONTRACTOR SHALL MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ENGINEER OF RECORD.
- CONTRACTOR ASSUMES RESPONSIBILITY FOR PROPER ARRANGEMENT OF PIPE, FITTINGS, ETC., TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANNER. CONTRACTOR SHALL FOLLOW EQUIPMENT MANUFACTURER'S DETAILED INSTRUCTIONS AND THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ALL WORK. NO EQUIPMENT INSTALLATION OR CONNECTIONS SHALL BE MADE IN A MANNER THAT VOIDS THE MANUFACTURER'S WARRANTY.
- DO NOT CUT STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ARCHITECT/ENGINEER, AND PERFORM CUTTING IN A MANNER AS DIRECTED BY ARCHITECT/ENGINEER.
- PROVIDE SLEEVES FOR ALL FLOOR PENETRATIONS WITH TOP OF SLEEVE 2" ABOVE FINISHED FLOOR.
- PLUMBING CONTRACTOR TO FURNISH AND INSTALL ALL PLUMBING FIXTURES COMPLETELY AS SPECIFIED ON DRAWINGS.
- PROVIDE SHUT-OFF VALVES ON ALL EQUIPMENT AND ANGLE STOPS IN HOT AND COLD WATER PIPING TO ALL PLUMBING FIXTURES.
- FLOOR TO BE SLOPED 1/8" TO FLOOR DRAINS. TOP OF DRAIN TO BE FLUSH WITH FINISHED FLOOR.
- MIXING VALVES SHALL BE USED TO TEMPER HOT WATER AT ALL PUBLIC LAVATORIES AND HAND WASHING FACILITIES. SET AT 105 DEGREES F.
- CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL VALVES AND MECHANICAL EQUIPMENT.
- MAINTAIN WORK AREA CLEAN AT ALL TIMES DURING CONSTRUCTION. AFTER COMPLETING INSTALLATION OF WORK, CLEAN ALL FIXTURES OF ALL RUBBISH, PLASTER, DIRT AND OTHER DEBRIS.
- TEST ALL SYSTEMS. ALL FIXTURES SHALL OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. REPORT ANY DEFICIENCIES TO THE ARCHITECT/ENGINEER.
- ALL POTABLE WATER PIPING SHALL BE DISINFECTED AND FLUSHED IN FULL ACCORDANCE WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.
- ALL PIPING SYSTEMS SHALL BE TESTED AT DESIGN PRESSURES FOR A PERIOD OF TIME AS PRESCRIBED BY THE LOCAL AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL REFER TO CONSTRUCTION DOCUMENT DRAWINGS, EQUIPMENT, LAYOUT DRAWINGS, AND ALL OTHER RELATED DRAWINGS AS REQUIRED FOR DIMENSIONS, DETAILS, ETC. PLUMBING LAYOUT SHOWN ON THIS DRAWING IS FOR GENERAL ARRANGEMENT ONLY. CONTRACTOR SHALL COORDINATE ALL WORK WITH FIELD CONDITIONS AND ALL OTHER TRADES INVOLVED AS REQUIRED. DO NOT SCALE DIMENSIONS FROM THIS DRAWING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AS REQUIRED.
- CONTRACTOR SHALL REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CUT SHEETS AS REQUIRED FOR INSTALLATION OF EQUIPMENT.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING, FITTINGS, VALVES, PARTS AND ACCESSORIES REQUIRED FOR PROPER INSTALLATION AND OPERATION OF PLUMBING SYSTEM, INCLUDING ALL FITTINGS AND DEVICES REQUIRED BY CODE, SUCH AS CHECK VALVES, VACUUM BREAKERS, SAFETY RELIEF VALVES, VACUUM RELIEF, ETC. ALL FLOOR DRAINS, WHERE REQUIRED BY CODES AND REGULATIONS, SHALL BE PROVIDED WITH TRAP-PRIMER VALVE AND FITTINGS.
- ALL PIPING SHALL BE HUNG, FIRMLY ANCHORED, AND SUPPORTED IN ACCORDANCE WITH MSS SP-58 MSS SP-69.
- VALVES AND FITTINGS SHALL BE OF THE SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED.
- CONTRACTOR SHALL SLEEVE ALL PIPING CROSSING THROUGH OR UNDERNEATH STRUCTURAL MEMBERS. NOTIFY ARCHITECT AND ENGINEERS PRIOR TO PROCEEDINGS WITH WORK TO ASSURE STRUCTURAL SUPPORT WILL NOT BE AFFECTED.
- DOMESTIC WATER SHALL BE SLOPED TO DRAIN POINTS.
- ALL SANITARY DRAINAGE PIPING 3" AND LARGER SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN UNLESS OTHERWISE NOTED.
- ALL SANITARY DRAINAGE PIPING 2" AND LESS SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/4" FALL PER 1'-0" OF RUN UNLESS OTHERWISE NOTED.
- ALL STORM DRAINAGE PIPE SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN UNLESS OTHERWISE NOTED.
- ALL ILLUSTRATED DRAINAGE PIPING IS BELOW THE FLOOR ON WHICH IT IS DRAWN UNLESS OTHERWISE NOTED. ALL DOMESTIC WATER AND VENT PIPING ILLUSTRATED IS ABOVE OR AT THE CEILING ON WHICH IT IS DRAWN UNLESS OTHERWISE NOTED.
- PROVIDE PRODUCTS AND FIXTURES AS SPECIFIED OR THEIR EQUIVALENT PROVIDED BY A/E.
- HOT WATER PIPING SHALL BE IN ACCORDANCE WITH SECTION C404.5 OF THE INTERNATIONAL ENERGY CONSERVATION CODE.
- ALL PIPINGS PASSING THROUGH BUILDING EXPANSION JOINTS SHALL BE PROVIDED WITH ADEQUATE FLEXIBLE CONNECTIONS TO ACCOMMODATE THE ANTICIPATED MOVEMENT. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT SIZE AND LOCATION.
- ALL EXISTING PLUMBING PIPES WHERE NEW PIPES ADDED NOT MENTIONED TO REMAIN, CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION, SIZE, AND WORKING CONDITION OF ALL EXISTING PIPES. A SURVEY NEED TO BE CONDUCTED AND REPLACE WITH NEW AS NEEDED.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING WATER PIPES LOCATION, SIZE, AND CONDUCT STERILIZE, FLUSHED FOR CHLORINE FREE, DEBRIS AND CONTAMINANTS TO AVOID ANY HARMFUL SITUATIONS.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING SANITARY DRAINS AND ALL ASSOCIATED PIPES NEED TO CLEAN FOR DEBRIS AND CONTAMINANTS TO AVOID ANY BLOCKAGES.

**ABBREVIATIONS**

- AAV AIR ADMITTANCE VALVE
- ABV ABOVE
- AD AREA DRAIN
- ADA AMERICAN DISABILITY ACT
- AFF ABOVE FINISHED FLOOR
- AP ACCESS PANEL
- ARCH ARCHITECTURAL
- ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS
- ASPE AMERICAN SOCIETY OF PLUMBING ENGINEERS
- ASSE AMERICAN SOCIETY OF SANITARY ENGINEERS
- BLDG BUILDING
- BLW BELOW
- BTUH BRITISH THERMAL UNIT
- BTUH BRITISH THERMAL UNIT PER HOUR
- CF COFFEE MAKER
- CLG CEILING
- CO CLEAN OUT
- CONT CONTINUATION
- CW COLD WATER
- DFU DRAINAGE FIXTURE UNIT
- DIA DIAMETER
- DMR DISTRIBUTED METER ROOM
- DN DOWN
- DWG DRAWING
- DWH DOMESTIC WATER HEATER
- DF DRINKING FOUNTAIN
- DW DISHWASHER
- E EXISTING
- EA EACH
- EQUIP EQUIPMENT
- ETP ELECTRONIC TRAP PRIMER
- ETR EXISTING TO REMAIN
- F WATER FILTER
- FCO FLOOR CLEAN OUT
- FD FLOOR DRAIN
- FL FLOOR
- FS FLOW SWITCH
- FT FEET
- FM FORCED MAIN
- GAL GALLON
- GPM GALLONS PER MINUTE
- HB HOSE BIB
- HDP HIGH DENSITY POLYETHYLENE
- HP HORSE POWER
- HW HOT WATER SUPPLY
- HWR HOT WATER RETURN
- IC ICE MAKER
- IN INCH
- INV INVERT
- IW INDIRECT WASTE
- LAV LAVATORY
- MAX MAXIMUM
- MBH THOUSAND BTU PER HOUR
- MECH MECHANICAL
- MFR MANUFACTURER
- MGCV MASTER GAS CONTROL VALVE
- MIN MINIMUM
- MS MOP SINK
- MTD MOUNTED
- N NEW
- NC NORMALLY CLOSED
- NFWH NON FREEZE WALL HYDRANT
- NG NATURAL GAS
- NOT IN CONTRACT
- NO NUMBER
- NO NORMALLY OPEN
- NT ACID NEUTRALIZATION TANK
- OSD OPEN SITE DRAIN
- P PUMP
- PDI PLUMBING AND DRAINAGE INSTITUTE
- PH PHASE (ELECTRICAL)
- PRV PRESSURE REDUCING VALVE
- PSI POUNDS PER SQUARE INCH
- RCV RISER CONTROL VALVE
- RF REFRIGERATOR MACHINE
- RPM REVOLUTIONS PER MINUTE
- SA SHOCK ABSORBER
- SAN SANITARY/WASTE PIPE
- SF SQUARE FEET
- SFU SUPPLY FIXTURE UNIT
- SS STAINLESS STEEL
- SS SERVICE SINK
- STRUC STRUCTURAL
- TD TRENCH DRAIN
- TEMP TEMPERATURE
- TMV THERMOSTATIC MIXING VALVE
- TP TRAP PRIMER TUBE
- TW TEMPERED WATER
- TYP TYPICAL
- UR URINAL
- V VENT PIPE
- VTR VENT THRU ROOF
- W WATT
- WC WATER CLOSET
- WCO WALL CLEANOUT
- WTR WATER
- W WITH
- W/O WITHOUT

**PLUMBING SYMBOLS**

- ANNOTATIONS**
- (W 1) DOMESTIC WATER RISER DESIGNATION
  - (S 1) SANITARY WATER RISER DESIGNATION
  - (V 1) VENT RISER DESIGNATION
  - REVISION NUMBER
  - POINT OF DEMOLITION
  - POINT OF CONNECTION
  - PIPE SIZE
  - PIPE SIZE/NOTE
- DETAIL ANNOTATIONS**
- 2 DETAIL NUMBER
  - P-701 WHERE THE DETAIL IS DRAWN
  - 2 DETAIL NUMBER
  - P-110, P-701 WHERE THE DETAIL IS DRAWN
  - P-701 WHERE THE DETAIL REFERENCED
- PIPE REPRESENTATION**
- EXISTING CW
  - EXISTING HW
  - EXISTING HWR
  - EXISTING SAN
  - EXISTING VENT
  - EXISTING STORM
  - DEMOLITION CW
  - DEMOLITION HW
  - DEMOLITION HWR
  - DEMOLITION SAN
  - DEMOLITION VENT
  - DEMOLITION STORM
  - NEW CW
  - NEW HW
  - NEW HWR
  - NEW SAN
  - NEW SAN BELOW GROUND
  - NEW VENT
  - NEW STORM
  - ID INDIRECT DRAINAGE PIPE
  - TP TRAP PRIMER TUBE

**DRAINS**

- FD FLOOR DRAIN
- FCO FLOOR CLEAN OUT
- GCO GRADE CLEAN OUT
- FS FLOOR SINK DRAIN
- OSD OPEN SITE DRAIN
- FFD FUNNEL FLOOR DRAIN

**MISCELLANEOUS**

- CO HORIZONTAL CLEANOUT
- HB HOSE BIB
- M WATER METER
- F WATER FILTER
- VACUUM BREAKER
- TEMPERATURE AND PRESSURE RELIEF VALVE
- TRAP PRIMER
- DIRT LEG
- BREAK PIPE BELOW
- SPRINKLER HEAD

**PIPE VALVES AND ACCESSORIES**

- REDUCED PRESSURE ZONE BACKFLOW PREVENTER (ASSE1013)
- DOUBLE CHECK VALVE BACKFLOW PREVENTER (ASSE 1015,1048)
- BALL VALVE
- CHECK VALVE
- SOLENOID VALVE
- GATE VALVE
- PRESSURE REDUCING VALVE
- THERMOSTATIC MIXING VALVE
- PLUG VALVE
- BALANCING VALVE
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTER (ASSE 1024)
- BACK WATER VALVE
- PUMP
- WATER HAMMER ARRESTOR ('A' = PDI SIZE)
- PRESSURE GAUGE
- THERMOMETER GAUGE
- AQUASTAT VALVE
- STRAINER

**PIPE FITTINGS**

- REDUCER/INCREASER
- CAPPED CONNECTION
- PIPE UNION
- ELBOW TURNED UP
- ELBOW TURNED DOWN
- TEE UP
- TEE DOWN
- SHUT-OFF VALVE IN RISER

**GENERAL PLUMBING DEMOLITION NOTES**

- WHERE EXISTING PLUMBING FIXTURES ARE INDICATED TO BE REMOVED, REMOVE EXISTING FIXTURE, TRIM, AND ALL ASSOCIATED PIPING AND HARDWARE. REMOVE SERVICE BRANCHES BACK TO NEAREST MAIN AND CAP. DEAD LEGS SHALL NOT EXCEED 2'-0" IN LENGTH.
- DEMOLITION SHALL BE PERFORMED IN SUCH A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES OR EQUIPMENT INDICATED TO REMAIN. WHERE SURFACES MUST BE REMOVED TO COMPLETE DEMOLITION, THE CONTRACTOR SHALL REPLACE AND REPAIR THE SURFACES BACK TO THE ORIGINAL CONDITION.
- WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH DEMOLITION.
- ALL REMOVED FIXTURES AND TRIM SHALL REMAIN THE PROPERTY OF THE OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM SITE SAID FIXTURES AS DIRECTED BY THE OWNER.
- THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION REQUIRED WITH SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION. WHERE SYSTEMS MUST REMAIN IN SERVICE DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE MEANS AND METHODS OF ISOLATING THE SYSTEMS TO BE REMOVED WITH THE SYSTEMS TO REMAIN IN SERVICE. MEANS AND METHODS SHALL INCLUDE TEMPORARY CAPS AND ISOLATION VALVES.

**DESIGN CRITERIA**

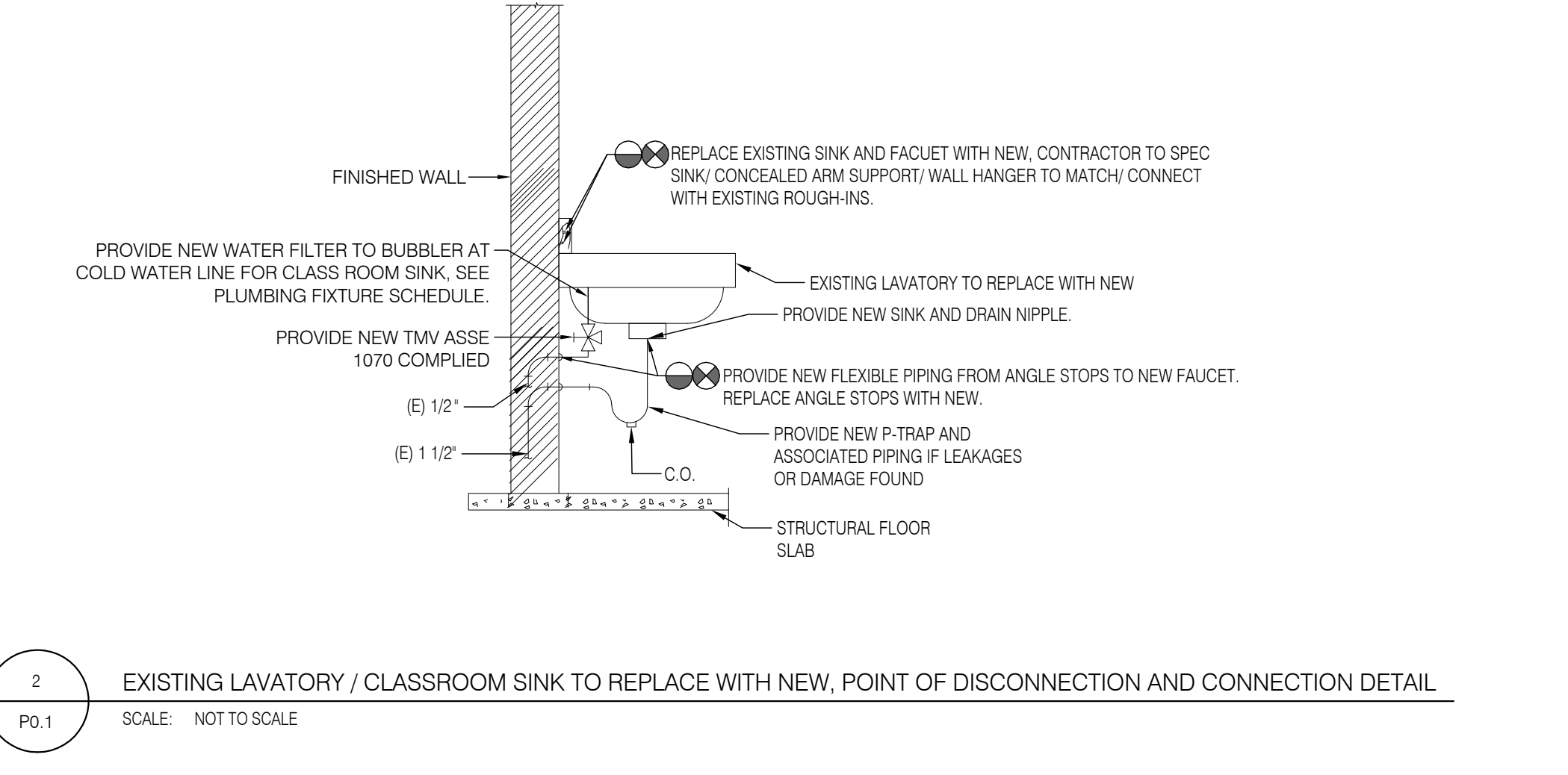
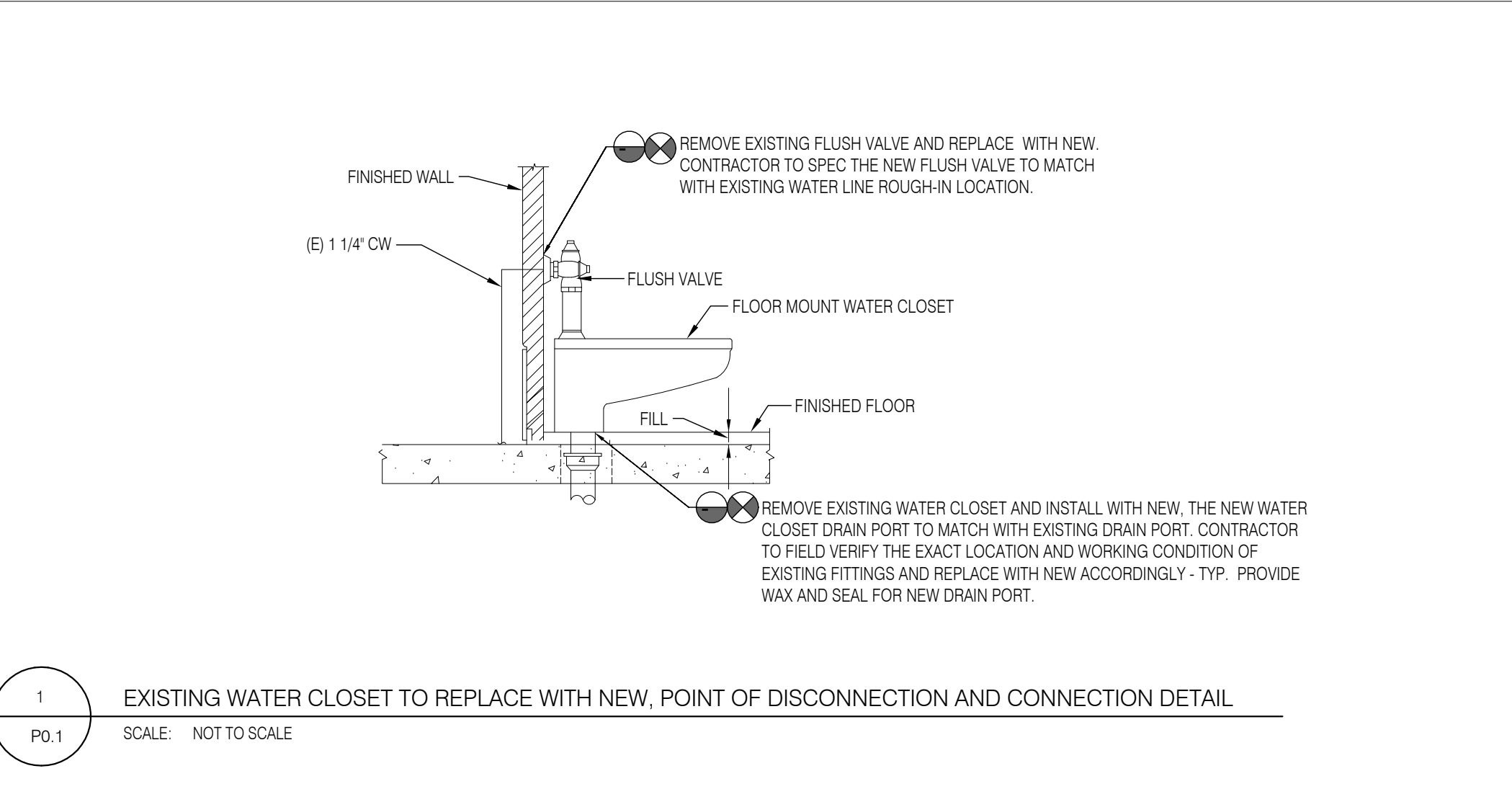
- PENNSYLVANIA UNIFORM CONSTRUCTION CODE (PA UCC)
- 2018 PHILADELPHIA EXISTING BUILDING CODE
- 2018 INTERNATIONAL BUILDING CODE
- 2018 PHILADELPHIA PLUMBING CODE
- AS PER LOCAL AUTHORITIES

**PLUMBING FIXTURE SCHEDULE**

ID	FIXTURE	MANUFACTURER	MODEL	FAUCET/VALVE	DESCRIPTION	MOUNTING	NOTES	PLUMBING FIXTURE ROUGH-IN
F-1	WATER CLOSET	AMERICAN STANDARD	MADERA 2858.16	MANUAL FLOW/ISE	VITREOUS CHINA, HIGH EFFICIENCY ADJUSTABLE TAIL PIECE 1.28 GPF FLUSH VALVE	FLOOR	FLOOR MOUNTED 16" FROM FINISHED FLOOR TO TOP RIM. WATER SENSE LABLE COMPLIED FLUSH VALVE.	CONNECT TO EXISTING ROUGH-INS
F-2	LAVATORY	AMERICAN STANDARD	LUCERNE 0369.915	MONTERREY	CENTERSET LAVATORY FAUCET ON 8" CENTERS, POP-UP DRAIN BODY WITH 1-1/4" TAIL PIECE, WITH 1.5 GPM FLOW RATE, TWO HANDLE WIDESPREAD FAUCET	WALL	ADA TYPE FIXTURE AND FAUCET, WATER SENSE COMPLIED FAUCET.	CONNECT TO EXISTING ROUGH-INS
F-3	DRINKING FOUNTAIN	ELKAY	LMABFDL		FILTERED NON-REFRIGERATED LIGHT GRAY GRANITE TYPE DRINKING FOUNTAIN	WALL		PLUMBING ROUGHINS SAME SIZE AS EXISTING DRINKING FOUNTAIN

**FIN TUBE RADIATOR SCHEDULE**

LOCATION	HEATING CAPACITY	UNIT HEIGHT (IN)	DIMENSIONS		EWT (F)	BOD
	BTU/HRT		FLOOR (IN)	UNIT DEPTH (IN)		
Annex Building, Floors 1-3	640	14-3/16	4	4-5/8	170	JDV3 DURAVANE II



**100% DESIGN SUBMISSION**

1/22/2020

NO.	DATE	REVISION
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1	03/05/2020	ADDENDUM #1

**SCHOOL & LOCATION**

**OVERBROOK EDUCATIONAL CENTER**

6722 LANSDOWNE AVENUE, PHILADELPHIA, PA 19151

**PROJECT TITLE**

**CLASSROOM MODERNIZATION**

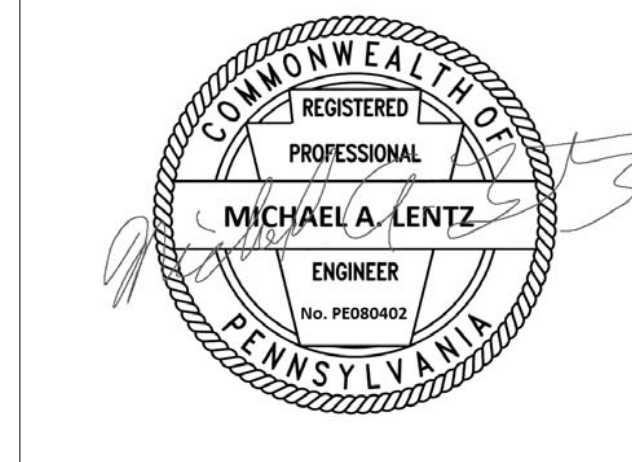
**DRAWING TITLE**

**PLUMBING GENERAL NOTES, SYMBOLS & ABBREVIATIONS**

LOCATION NO. FILE NO.  
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B-028C OF 2019 / 20  
B-030C OF 2019 / 20

DRAWING NO. **MP0.1**

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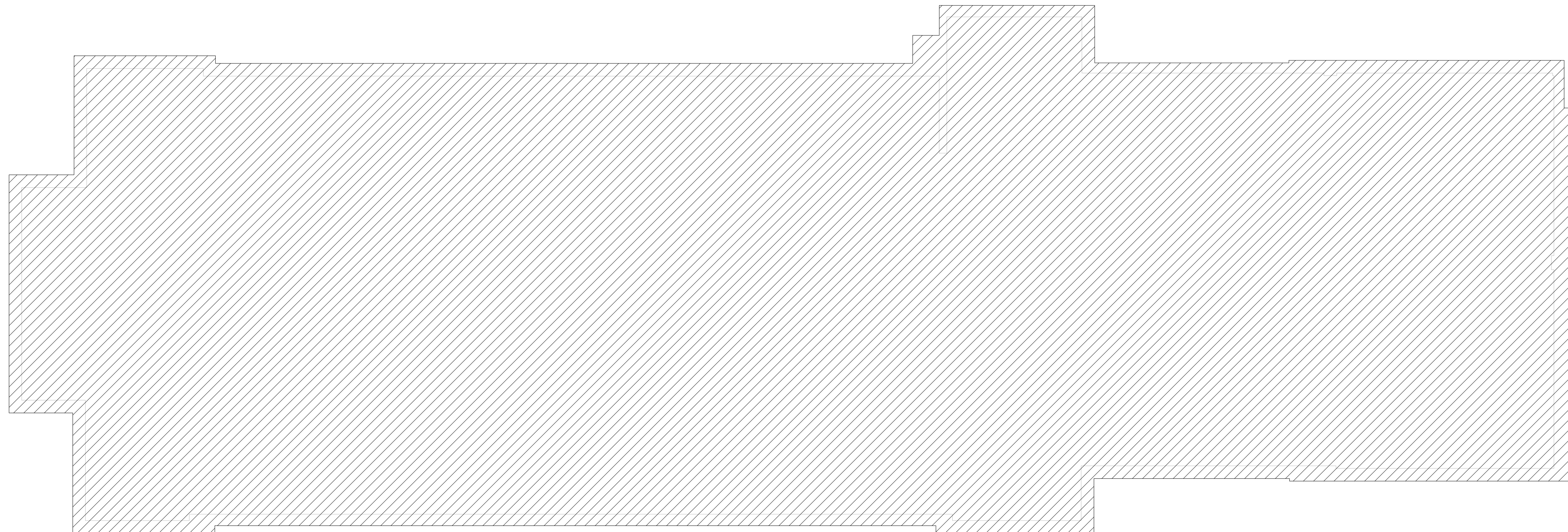
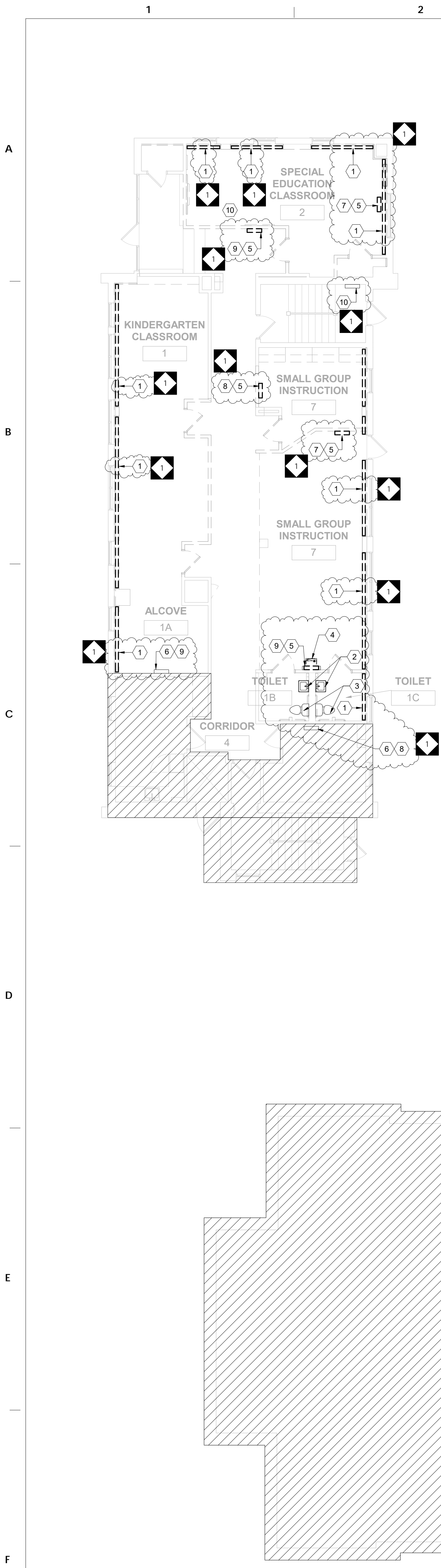
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**GENERAL NOTES**

1. ANY INTERRUPTIONS OF EXISTING SERVICES OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE BUILDING OPERATION.
2. THESE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK AND REMOVAL OF MATERIALS/COMPONENTS NOT REQUIRED FOR THE NEW AND RENOVATED SYSTEMS.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PLUMBING FIXTURES AND EXACT SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO DEMOLITION.
4. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR STORAGE OR DISPOSAL OF EXISTING PLUMBING FIXTURES/EQUIPMENTS THAT ARE BEING REMOVED.
5. CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING ITEMS TO REMAIN AND RESTORE THE UTILITIES BACK TO THEIR ORIGINAL FUNCTION.
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7. PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES IN THE AREA OF WORK.
8. CONTRACTOR TO PROVIDE ADDITIONAL FITTINGS/TRIMS WHILE CONNECTING NEW FIXTURES TO THE EXISTING PLUMBING ROUGH INS.
9. MECHANICAL CONTRACTOR SHALL RECOVER ALL REFRIGERANT FROM SYSTEMS PRIOR TO DEMOLITION. RECHARGE ALL SYSTEMS AT THE COMPLETION OF THE WORK.

**DEMOLITION KEY NOTES**

1. REMOVE ALL PERIMETER FINNED TUBE RADIATION ON THE CLASSROOMS. PREPARE PIPING FOR INSTALLATION OF NEW FINNED TUBE RADIATION AND ENCLOSURE TO MATCH EXISTING.
2. EXISTING SINK AND FAUCET TO BE REMOVED. PREPARE ALL PLUMBING ROUGH INS FOR NEW FIXTURES/VALVE INSTALLATION. COORDINATE WITH OWNER FOR STORAGE OR DISPOSAL OF FIXTURE. CONTRACTOR TO FIELD VERIFY THE NEW FIXTURES ROUGH-INS TO MAKE SURE THE EXISTING ROUGH-INS/ CARRIAGES/ FLOOR/WALL FLUSH/ ALL ASSOCIATED FITTINGS ARE COMPATIBLE WITH NEW FIXTURES. CONTRACTOR TO ADD/ TRIM ROUGH-INS TO FIT WITH NEW FIXTURES. SEE DETAIL IN MPD-1 SHEET.
3. EXISTING WATER CLOSET TO BE REMOVED. PREPARE ALL PLUMBING ROUGH INS FOR NEW FIXTURES/VALVE INSTALLATION. COORDINATE WITH OWNER FOR STORAGE OR DISPOSAL OF FIXTURE. CONTRACTOR TO FIELD VERIFY THE NEW FIXTURES ROUGH-INS TO MAKE SURE THE EXISTING ROUGH-INS/ CARRIAGES/ FLOOR/WALL FLUSH/ ALL ASSOCIATED FITTINGS ARE COMPATIBLE WITH NEW FIXTURES. CONTRACTOR TO ADD/ TRIM ROUGH-INS TO FIT WITH NEW FIXTURES. SEE DETAIL IN MPD-1 SHEET.
4. REMOVE EXISTING DRINKING FOUNTAIN. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION, CUT AND CAP ALL EXISTING PIPING BACK TO WALL/ CEILING BELOW FLOOR TILL MAIN PIPING SO THAT NO DEAD LEGS ARE CREATED.
5. DISCONNECT EXISTING MECHANICAL INDOOR UNIT. PREPARE EXISTING PIPING FOR RECONNECTION. ALLOW FOR 15'-0" OF REFRIGERANT AND CONDENSATE DRAINAGE PIPING FOR ALL DUCTLESS SPLIT SYSTEMS.
6. EXISTING MECHANICAL INDOOR UNIT TO REMAIN.
7. SANYO#KMS1812
8. SANYO#KMS0712
9. SANYO#KMS0912
10. EXISTING CABINET UNIT HEATER TO REMAIN.



1 PLUMBING FIRST FLOOR DEMOLITION PLAN  
MPD1.1 1/8" = 1'-0" 0 4 8 16'

100% DESIGN SUBMISSION  
1/22/2020

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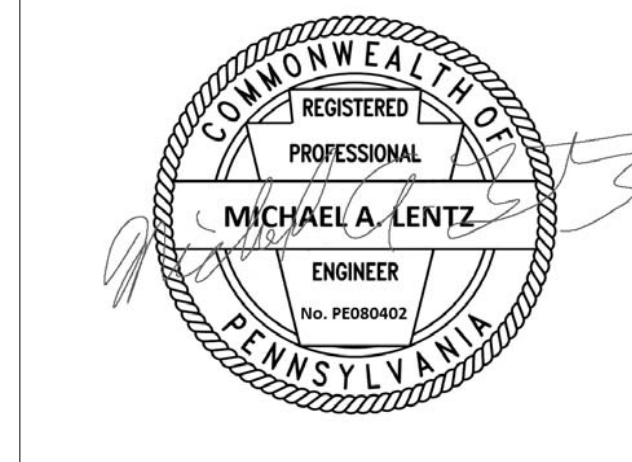
PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**PLUMBING FIRST FLOOR DEMOLITION PLAN**

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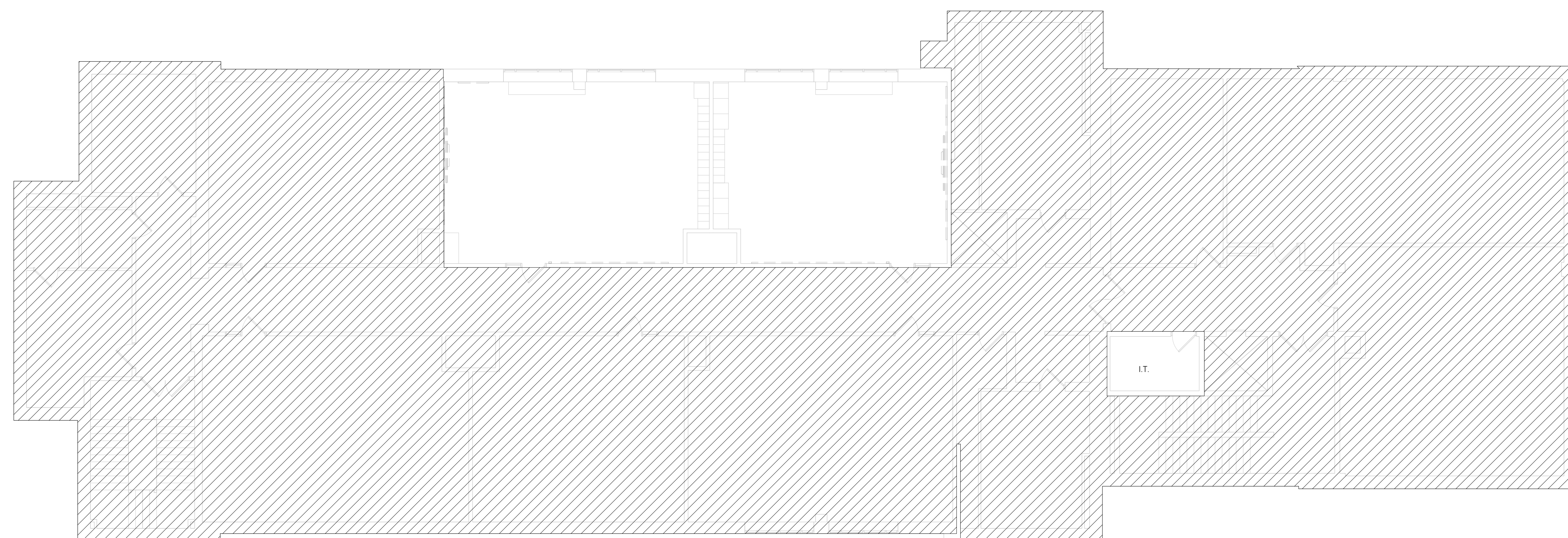
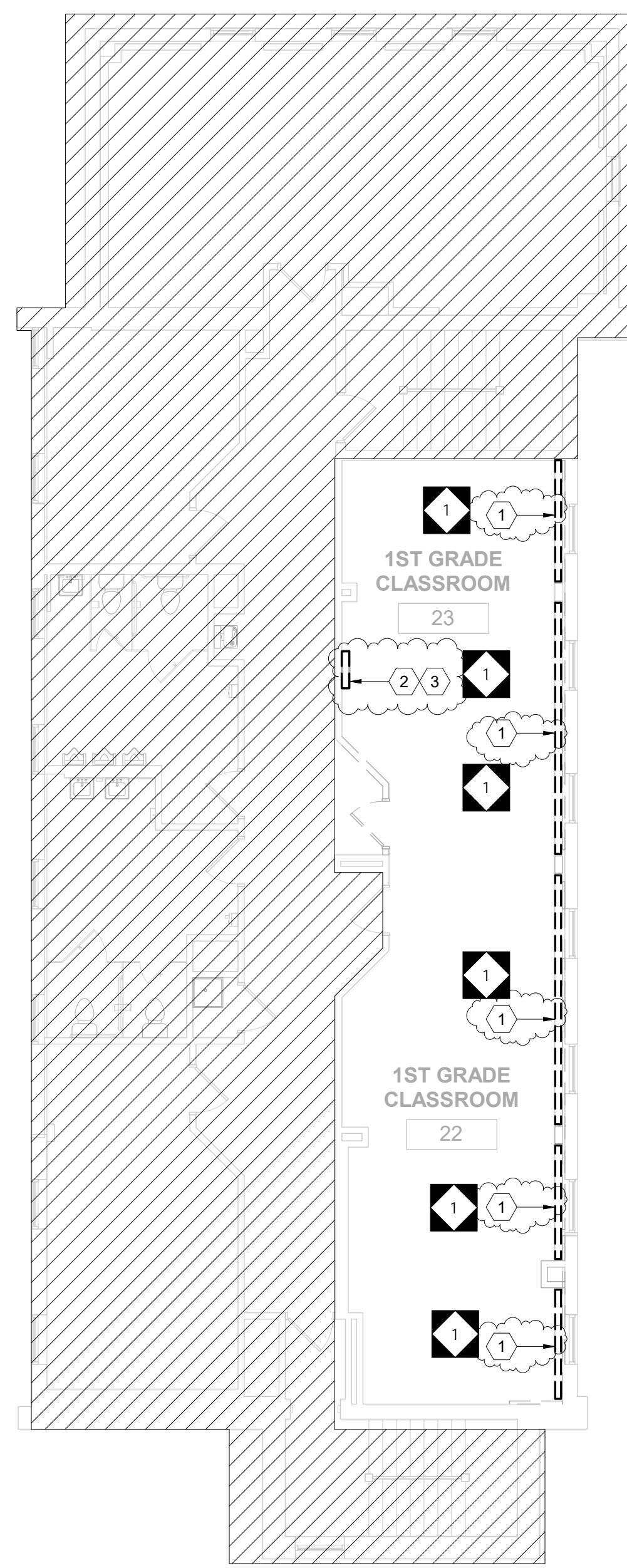
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**DEMOLITION KEY NOTES**

1. REMOVE ALL PERIMETER FINNED TUBE RADIATION ON THE CLASSROOMS. PREPARE PIPING FOR INSTALLATION OF NEW FINNED TUBE RADIATION AND ENCLOSURE TO MATCH EXISTING.
2. DISCONNECT EXISTING MECHANICAL INDOOR UNIT. PREPARE EXISTING PIPING FOR RECONNECTION. ALLOW FOR 16'-0" OF REFRIGERANT AND CONDENSATE DRAINAGE PIPING FOR ALL DUCTLESS SPLIT SYSTEMS.
3. SANYO#KMS1822



1 PLUMBING SECOND FLOOR DEMOLITION PLAN  
MPD1.2 1/8" = 1'-0" 0 4 8 16'

**100% DESIGN SUBMISSION**  
1/22/2020

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PROJECT TITLE  
**CLASSROOM MODERNIZATION**

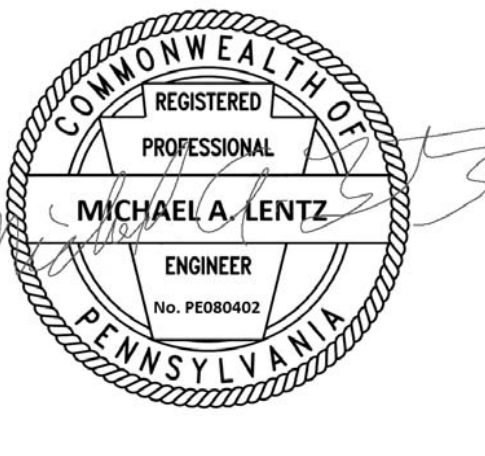
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**PLUMBING SECOND FLOOR DEMOLITION PLAN**

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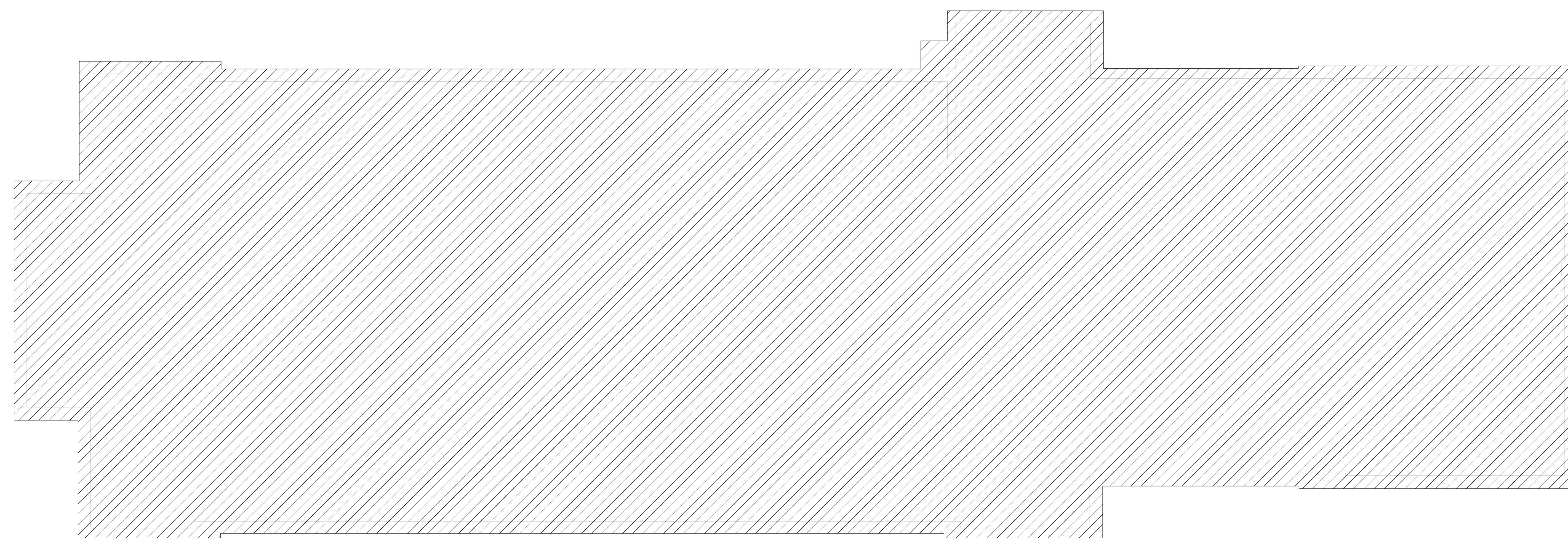
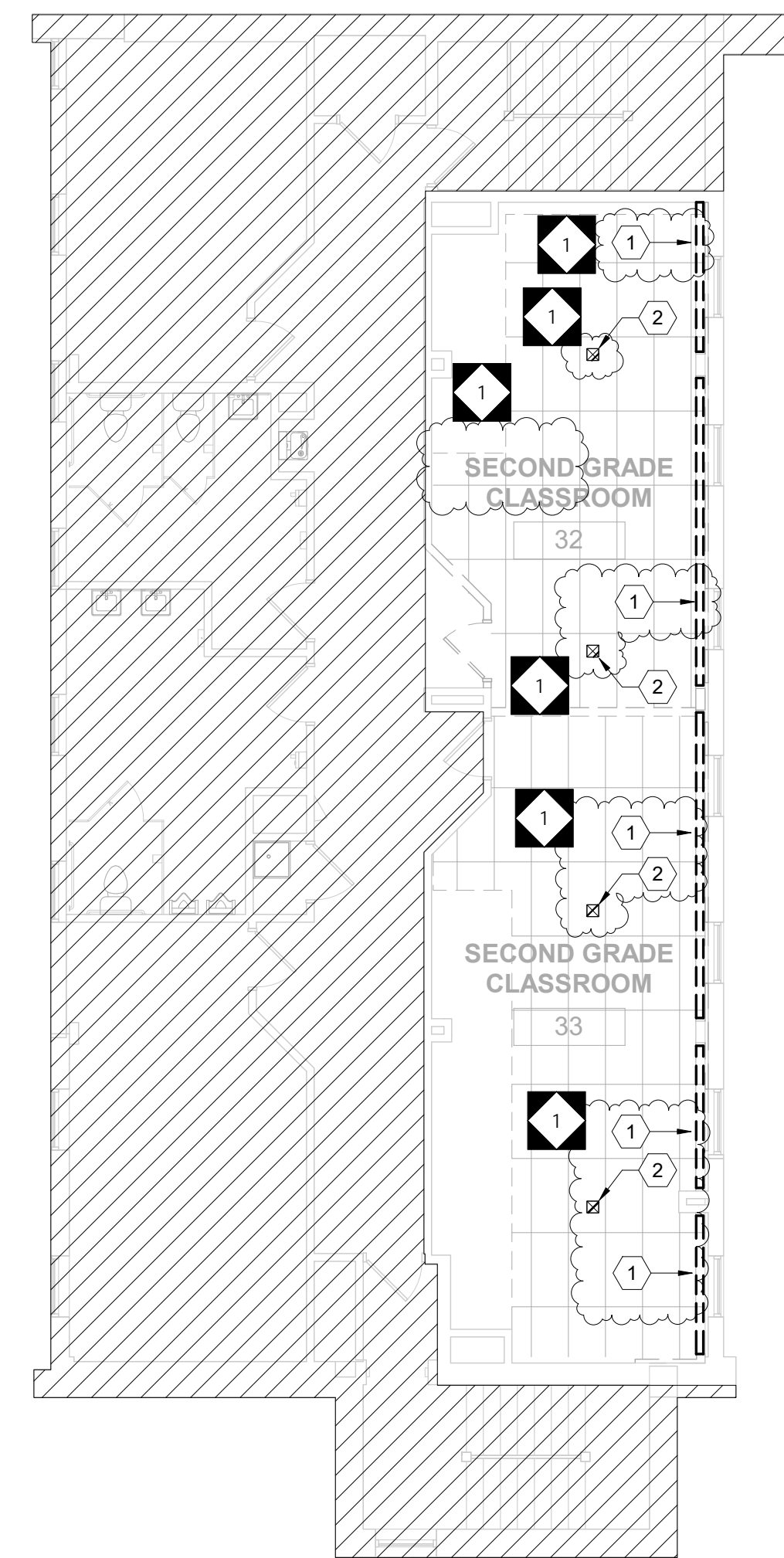
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**# DEMOLITION KEY NOTES**

1. REMOVE ALL PERIMETER FINNED TUBE RADIATION ON THE CLASSROOMS. PREPARE PIPING FOR INSTALLATION OF NEW FINNED TUBE RADIATION AND ENCLOSURE TO MATCH EXISTING.
2. REMOVE EXISTING SUPPLY DIFFUSER FOR FUTURE USE.



1 PLUMBING THIRD FLOOR DEMOLITION PLAN  
MPD1.3 1/8" = 1'-0"  
0 4' 8' 16'

**100% DESIGN SUBMISSION**  
1/22/2020

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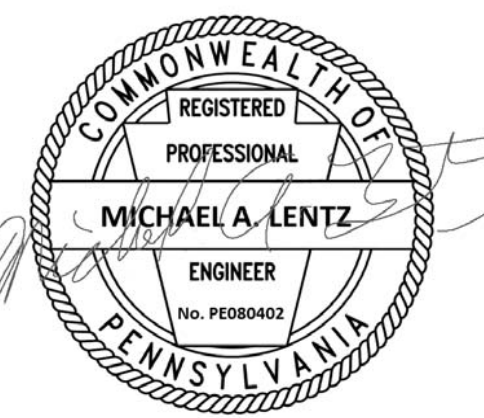
PROJECT TITLE  
**CLASSROOM MODERNIZATION**

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**PLUMBING THIRD FLOOR DEMOLITION PLAN**

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DRAWING NO.  
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**SHEET KEY NOTES**

1. NEW DRINKING FOUNTAIN, CONNECT NEW WATER AND VENT LINES OF SAME SIZE AS EXISTING DRINKING FOUNTAIN TO NEAREST EXISTING RESPECTIVE LINES AT CEILING SPACE. CONNECT NEW SANITARY DRAIN OF SAME SIZE AS EXISTING DRINKING FOUNTAIN BELOW SLAB TO NEAREST SANITARY LINE. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING PIPING.
2. EXISTING WATER CLOSET AND FLUSH VALVE TO BE REPLACED WITH NEW WATER CLOSET PER PLUMBING FIXTURE SCHEDULE. CONTRACTOR TO FIELD VERIFY THE WATER CLOSET. THE NEW FIXTURE SELECTION SHOULD BE COMPATIBLE TO MOUNT/INSTALL TO EXISTING FLOOR MOUNT SPECIFICATIONS AND CARRIAGE. THE EXISTING WATER, DRAIN AND VENT PIPE TO REMAIN. THE NEW FIXTURE ROUGH-INS TO CONNECT TO EXISTING ROUGH-INS. CONTRACTOR TO TRIM/ADD/REPAIR/REPLACE EXISTING DRAIN AND VENT PIPING TO MATCH NEW FIXTURE AND FIXTURE ROUGH-INS AND CONNECT NEW WATER, DRAIN AND VENT PIPING BACK WATER CLOSET. CONTRACTOR TO CLEAN AND CLEAR FOR ANY DEBRIS AND CHECK FOR LEAKS. PROVIDE NEW WAX AND SEAL AT DRAIN PORT. PROVIDE AN EXTENDER ON TOILET FLANGE TO ACCOMMODATE THE HEIGHT FOR THE NEW CERAMIC TILE.
3. EXISTING LAVATORY AND FAUCET TO BE REPLACED WITH NEW PER PLUMBING FIXTURE SCHEDULE. CONTRACTOR TO FIELD VERIFY THE LAVATORY. THE NEW FIXTURE SELECTION SHOULD BE COMPATIBLE TO MOUNT/INSTALL TO EXISTING WALL MOUNT SPECIFICATIONS AND CARRIAGE. THE EXISTING DRAIN AND VENT PIPE TO REMAIN. THE NEW FIXTURE ROUGH-INS TO CONNECT TO EXISTING ROUGH-INS. CONTRACTOR TO TRIM/ADD/REPAIR/REPLACE EXISTING WATER, DRAIN AND VENT PIPING TO MATCH NEW FIXTURE AND FIXTURE ROUGH-INS AND CONNECT NEW WATER DRAIN AND VENT PIPING BACK SINK. CONTRACTOR TO CLEAN AND CLEAR FOR ANY DEBRIS AND CHECK FOR LEAKS IN EXISTING PIPING.
4. NEW FINNED TUBE RADIATION (MANUFACTURER: VULCAN RADIATOR MODEL: JDV3 14) AND ENCLOSURE TO MATCH EXISTING. CONTRACTOR TO IDENTIFY AND QUANTIFY THE NEW SYSTEMS.
5. EXISTING MECHANICAL INDOOR UNIT REINSTALLED IN PLACE.
6. RELOCATED MECHANICAL INDOOR UNIT FROM CORRIDOR.
7. RELOCATED MECHANICAL INDOOR UNIT FROM OFFICE.
8. RELOCATED MECHANICAL INDOOR UNIT FROM ADJACENT WALL.
9. EXISTING MECHANICAL INDOOR UNIT TO REMAIN.
10. SANYO#KMS1812
11. SANYO#KMS0712
12. SANYO#KMS0912
13. ALLOW FOR 15'-0" OF REFRIGERANT AND CONDENSATE DRAINAGE PIPING FOR ALL DUCTLESS SPLIT SYSTEMS. ADD INSULATION TO PIPING TO MATCH EXISTING.
14. EXISTING CABINET UNIT HEATER TO REMAIN.

**100% DESIGN SUBMISSION**  
1/22/2020

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1	03/05/2020	ADDENDUM #1
NO.	DATE	REVISION

SCHOOL & LOCATION  
**OVERBROOK EDUCATIONAL CENTER**

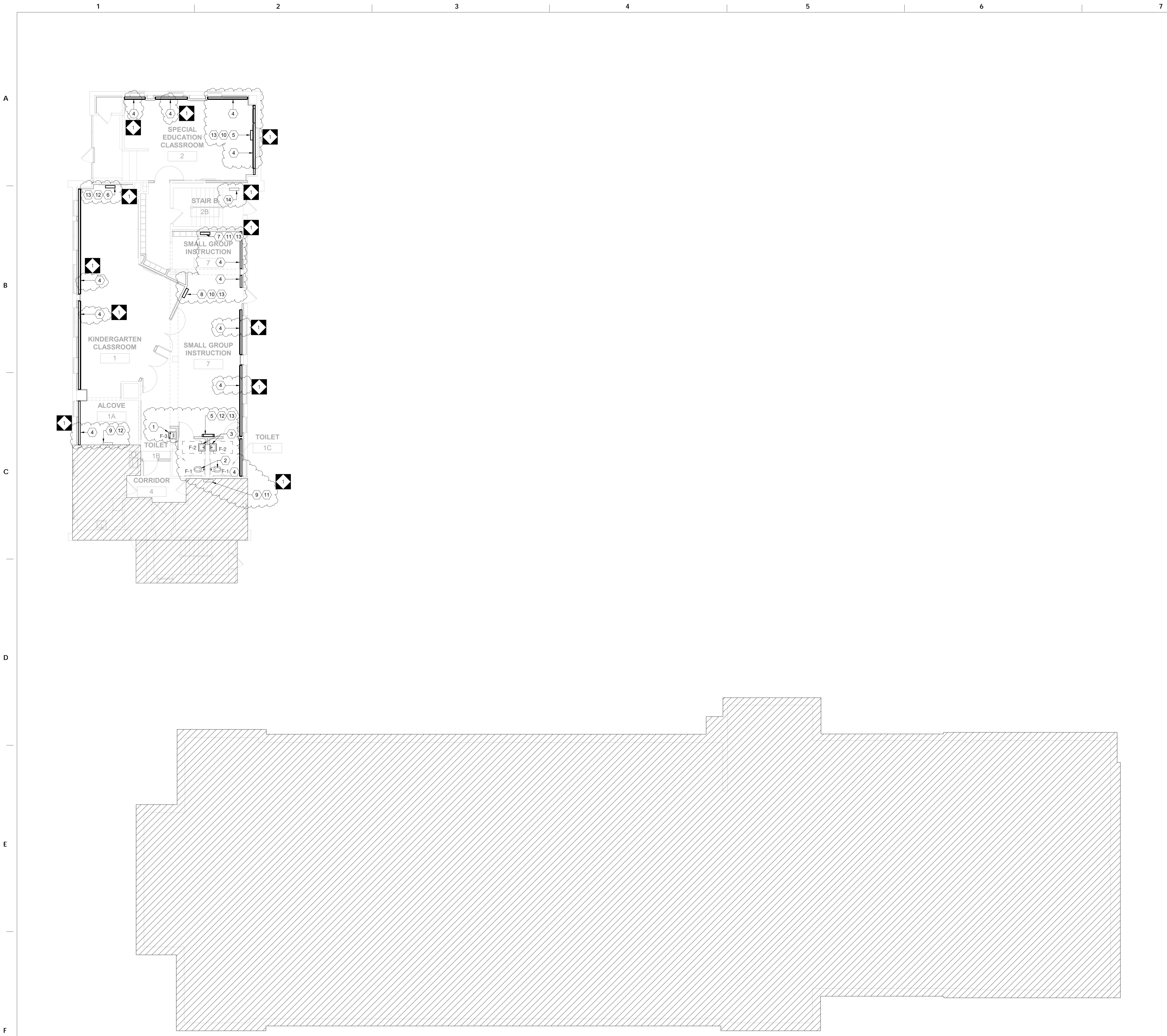
6722 LANSDOWNE AVENUE,  
PHILADELPHIA, PA 19151

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

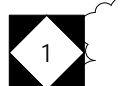
DRAWING TITLE  
**PLUMBING FIRST FLOOR NEW WORK PLAN**

LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY
B-028C	OF 2019 / 20
B-030C	OF 2019 / 20

DRAWING NO.  
**MP1.1**



1 PLUMBING FIRST FLOOR NEW WORK PLAN  
MP1.1 1/8" = 1'-0" 0 4 8 16'





SEAL:



MICHAEL A. LENTZ  
STATE AND LICENSE NO. PE080402

**ARCHITECT**

CRABTREE, ROHRBAUGH & ASSOCIATES  
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SETTY  
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Phone: 667-309-6036

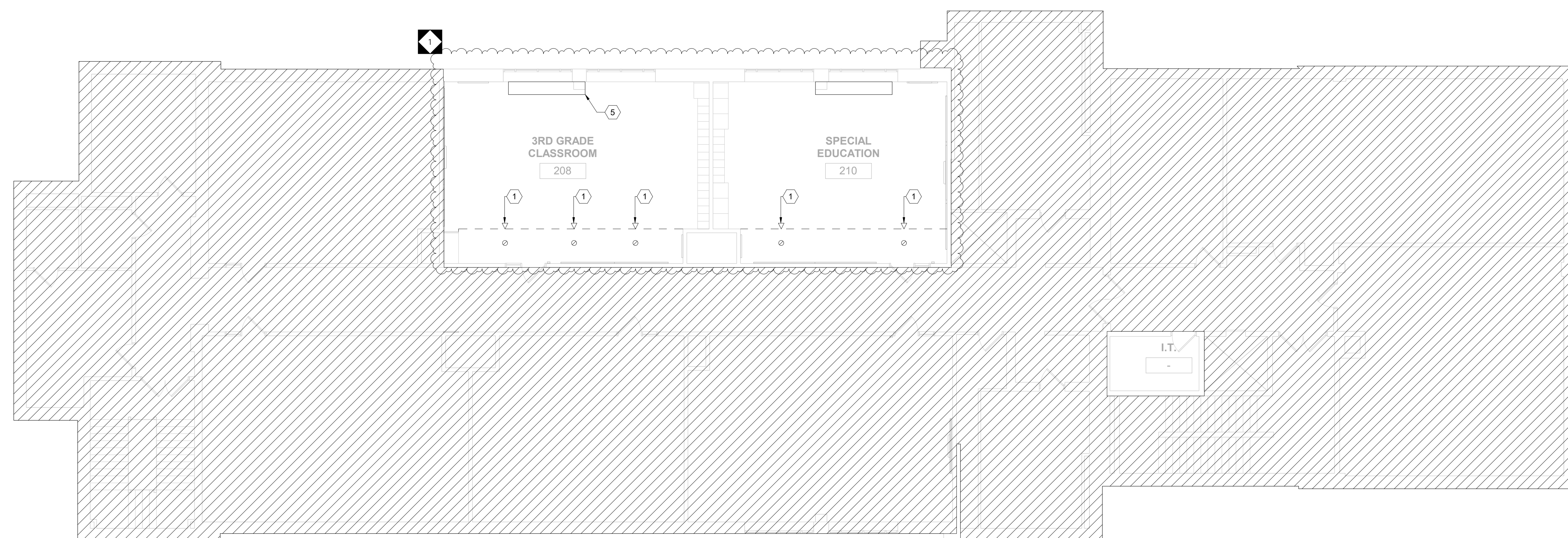
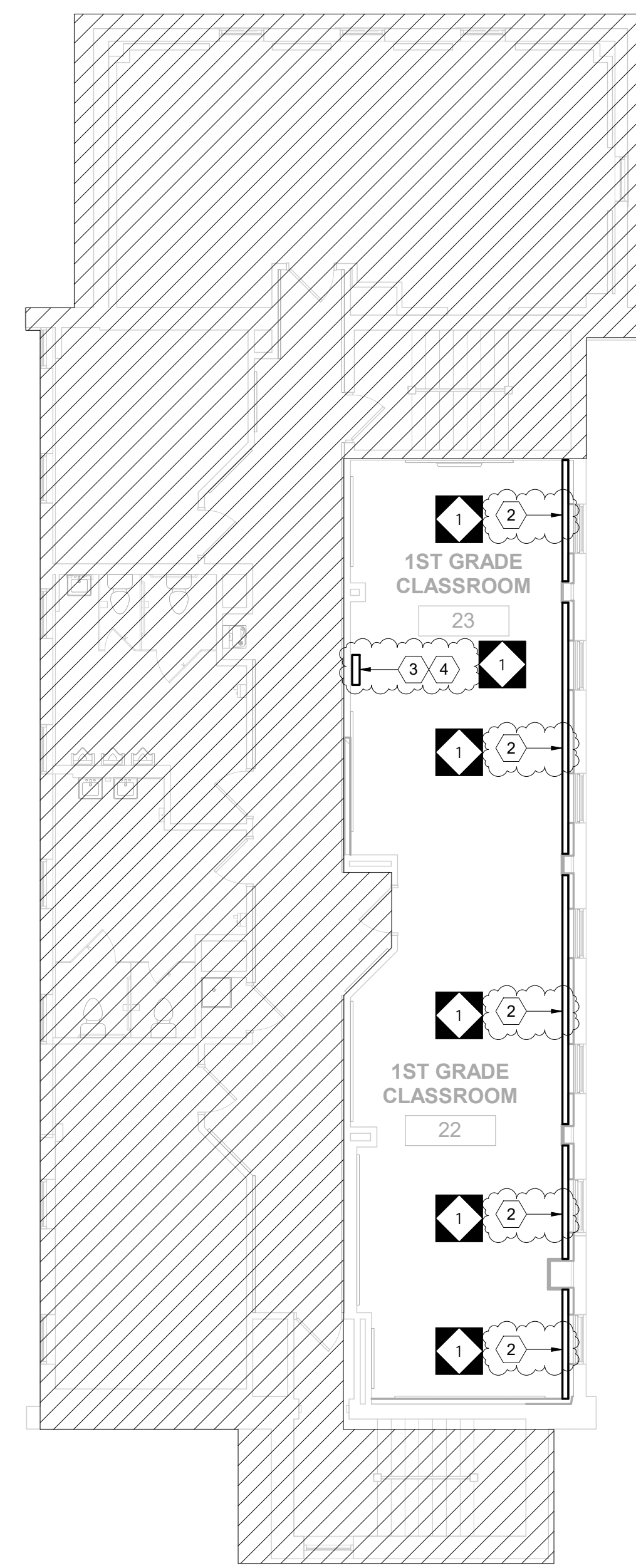
Email: deepak.ah@setty.com  
Attn: Deepak Ajmane

**GENERAL NOTES**

1. ANY INTERRUPTIONS OF EXISTING SERVICES OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE BUILDING OPERATION.
2. THESE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK AND REMOVAL OF MATERIALS/COMPONENTS NOT REQUIRED FOR THE NEW AND RENOVATED SYSTEMS.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PLUMBING FIXTURES AND EXACT SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO DEMOLITION.
4. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR STORAGE OR DISPOSAL OF EXISTING PLUMBING FIXTURES/EQUIPMENTS THAT ARE BEING REMOVED.
5. CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING ITEMS TO REMAIN AND RESTORE THE UTILITIES BACK TO THEIR ORIGINAL FUNCTION.
6. ANY DAMAGES TO THE EXISTING ELEMENTS OR ANY ITEMS NOT IN SCOPE OF WORK SHALL BE REPAIRED AND BROUGHT TO EXISTING CONDITION WITHOUT ANY ADDITIONAL COST.
7. PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES IN THE AREA OF WORK.
8. CONTRACTOR TO PROVIDE ADDITIONAL FITTINGS/TRIMS WHILE CONNECTING NEW FIXTURES TO THE EXISTING PLUMBING ROUGH INS.
9. MECHANICAL CONTRACTOR SHALL RECOVER ALL REFRIGERANT FROM SYSTEMS PRIOR TO DEMOLITION. RECHARGE ALL SYSTEMS AT THE COMPLETION OF THE WORK.

**SHEET KEY NOTES**

1. INSTALL NEW ESCUTCHEONS AT EXISTING SIDEWALL SPRINKLER HEADS. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION OF SPRINKLER HEADS. RE-SUPPORT THE EXISTING PIPING TO BRING THE SIDEWALL HEADS FLUSH WITH THE SOFFIT.
2. NEW FINNED TUBE RADIATION (MANUFACTURER: VULCAN RADIATOR, MODEL: JDV3 14) AND ENCLOSURE TO MATCH EXISTING. CONTRACTOR TO IDENTIFY AND QUANTIFY THE NEW SYSTEMS.
3. EXISTING MECHANICAL INDOOR UNIT REINSTALLED IN PLACE.
4. SANIYG#RMS1822
5. EXISTING CLASSROOM UNIT VENTILATOR. WIREBRUSH GRILLE. PRIME AND PAINT TO MATCH.



1 PLUMBING SECOND FLOOR NEW WORK PLAN  
MP1.2 1/8" = 1'-0" 0 4' 8' 16'

100% DESIGN SUBMISSION  
1/22/2020

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1	03/05/2020	ADDENDUM #1
NO.	DATE	REVISION

SCHOOL & LOCATION  
**OVERBROOK EDUCATIONAL CENTER**

6722 LANSDOWNE AVENUE,  
PHILADELPHIA, PA 19151

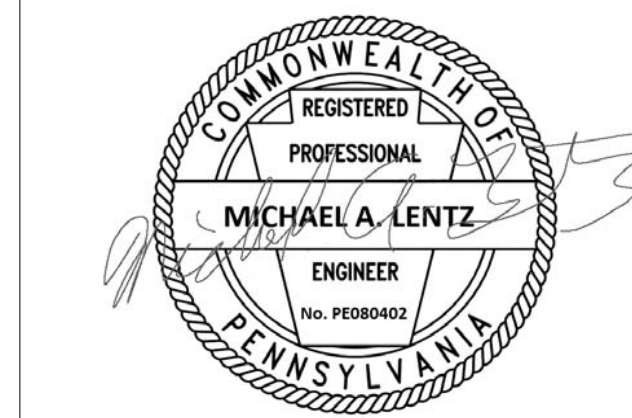
PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**PLUMBING SECOND FLOOR NEW WORK PLAN**

LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY
B-028C OF 2019 / 20	
B-030C OF 2019 / 20	

DRAWING NO.  
**MP1.2**

SEAL:



MICHAEL A. LENTZ  
STATE AND LICENSE NO. PE080402

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Email: jharder@cra-architects.com  
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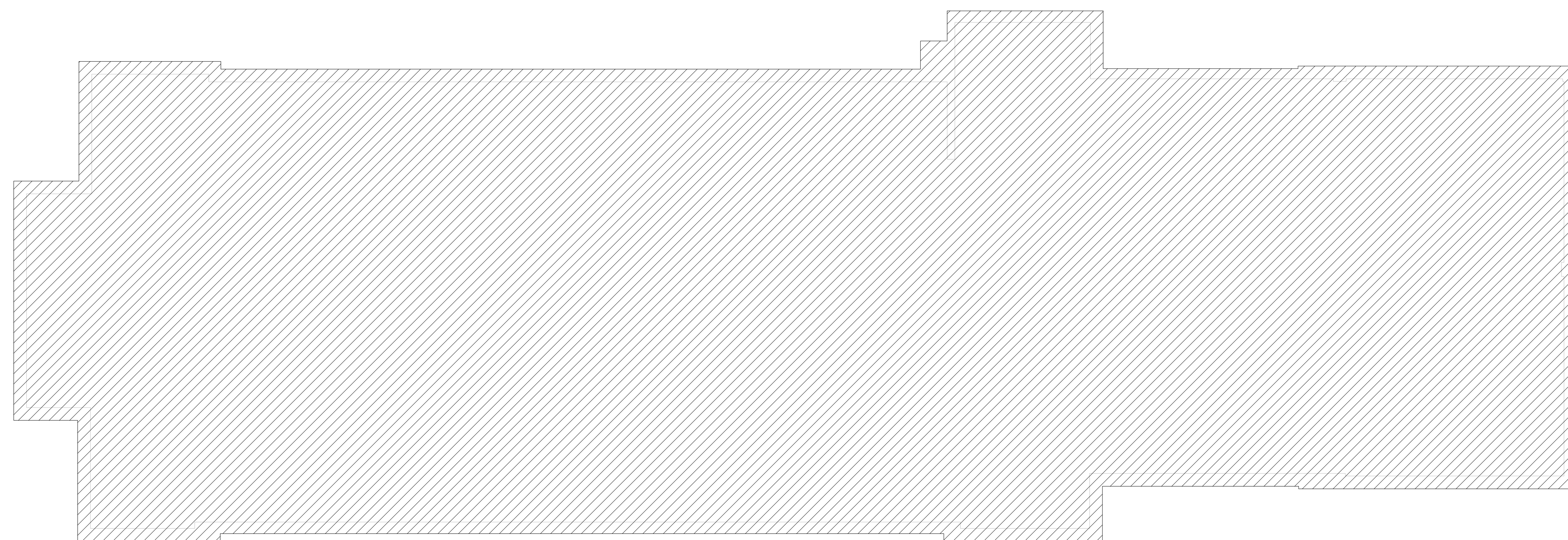
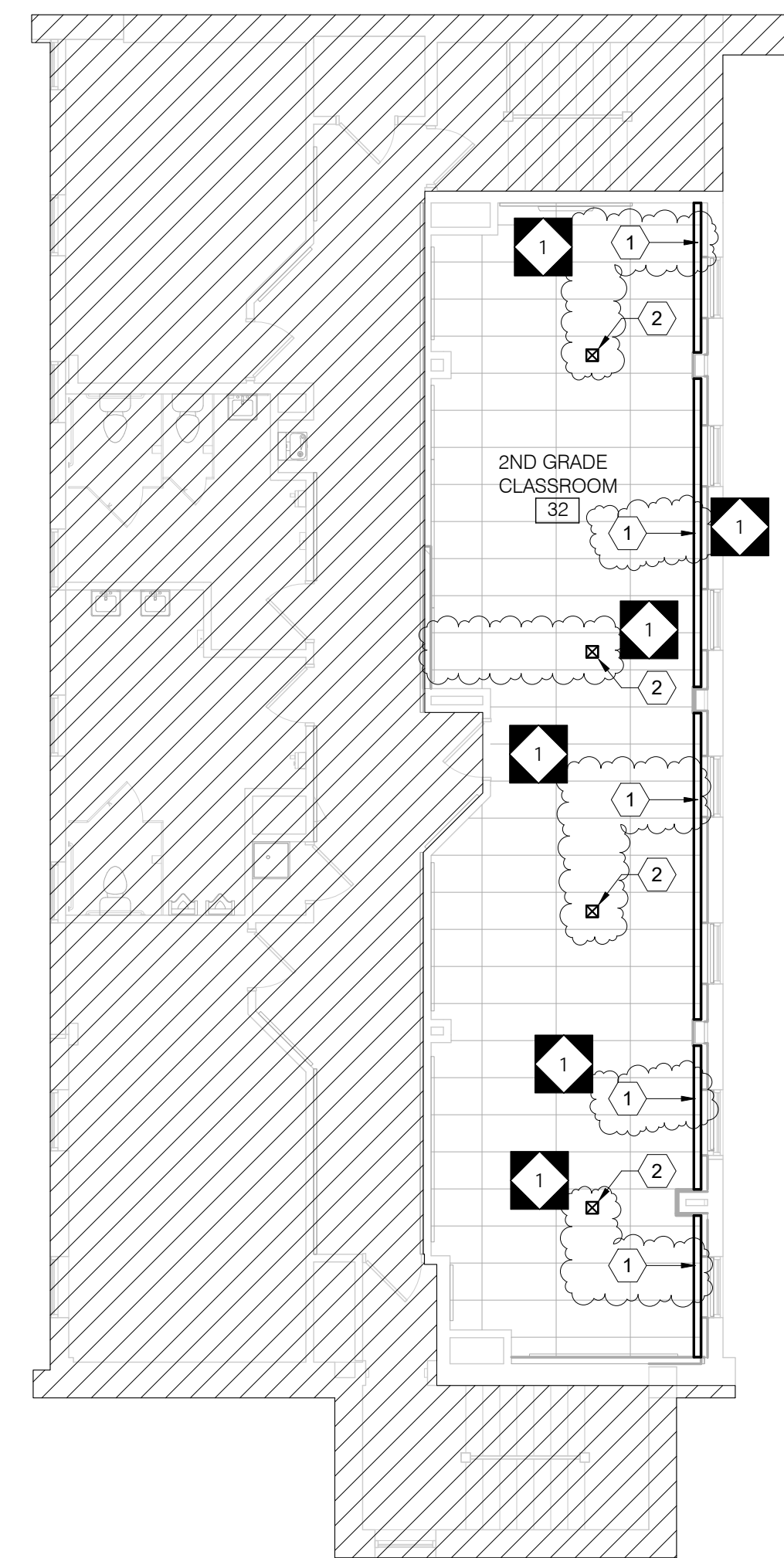
Email: deepak.setty@setty.com  
Attn: Deepak Ajmane

**GENERAL NOTES**

1. ANY INTERRUPTIONS OF EXISTING SERVICES OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE BUILDING OPERATION.
2. THESE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK AND REMOVAL OF MATERIALS/COMPONENTS NOT REQUIRED FOR THE NEW AND RENOVATED SYSTEMS.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PLUMBING FIXTURES AND EXACT SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO DEMOLITION.
4. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR STORAGE OR DISPOSAL OF EXISTING PLUMBING FIXTURES/EQUIPMENTS THAT ARE BEING REMOVED.
5. CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING ITEMS TO REMAIN AND RESTORE THE UTILITIES BACK TO THEIR ORIGINAL FUNCTION.
6. ANY DAMAGES TO THE EXISTING ELEMENTS OR ANY ITEMS NOT IN SCOPE OF WORK SHALL BE REPAIRED AND BROUGHT TO EXISTING CONDITION WITHOUT ANY ADDITIONAL COST.
7. PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES IN THE AREA OF WORK.
8. CONTRACTOR TO PROVIDE ADDITIONAL FITTINGS/TRIMS WHILE CONNECTING NEW FIXTURES TO THE EXISTING PLUMBING ROUGH INS.
9. MECHANICAL CONTRACTOR SHALL RECOVER ALL REFRIGERANT FROM SYSTEMS PRIOR TO DEMOLITION. RECHARGE ALL SYSTEMS AT THE COMPLETION OF THE WORK.

**SHEET KEY NOTES**

1. NEW FINNED TUBE RADIATION (MANUFACTURER: VULCAN RADIATOR, MODEL: JDS 14) AND ENCLOSURE TO MATCH EXISTING. CONTRACTOR TO IDENTIFY AND QUANTIFY THE NEW SYSTEMS.
2. CLEAN AND REINSTALL SUPPLY DIFFUSER TO EXISTING DUCTWORK.



1 PLUMBING THIRD FLOOR NEW WORK PLAN  
MP1.3 1/8" = 1'-0" 0 4' 8' 16'

**100% DESIGN SUBMISSION**  
1/22/2020

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1	03/05/2020	ADDENDUM #1
NO.	DATE	REVISION

SCHOOL & LOCATION  
**OVERBROOK EDUCATIONAL CENTER**

6722 LANSDOWNE AVENUE,  
PHILADELPHIA, PA 19151

PROJECT TITLE  
**CLASSROOM MODERNIZATION**

DRAWING TITLE  
**PLUMBING THIRD FLOOR NEW WORK PLAN**

LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY
B-028C OF 2019 / 20	
B-030C OF 2019 / 20	

DRAWING NO.  
**MP1.3**



4480	2ND FL: N. 68th Street Side Stairwell		W2	Sheetrock	Blue	Flaking	2 SF	0.2	Negative	N/A	N/A	N/A	N/A	N/A
4480	2ND FL: N. 68th Street Side Stairwell		W4	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Tan	Flaking	10 SF
4480	2ND FL: N. 68th Street Side Stairwell		Floor	Metal	Tan	Flaking	20 SF	0	Negative	N/A	N/A	N/A	N/A	N/A
4480	2ND FL: N. 68th Street Side Stairwell		Floor	N/A	N/A	N/A	N/A	N/A	N/A	Newel posts	Metal	Tan	Flaking	10 SF
4480	2ND FL: N. 68th Street Side Stairwell Entrance		W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Tan	Flaking	20 SF
4480	2nd Floor Hallway		W1	Sheetrock	White	Flaking	10 SF	0.1	Negative	N/A	N/A	N/A	N/A	N/A
4480	2nd Floor Hallway		W3	Sheetrock	White	Flaking	10 SF	0.1	Negative	N/A	N/A	N/A	N/A	N/A
4480	2nd Floor Hallway		W4	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Tan	Flaking	10 SF
4480	Room 21		W1	Sheetrock	White	Flaking	2 SF	0.1	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 21		W3	Plaster	White	Flaking	10 SF	-0.4	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 21		W3	N/A	N/A	N/A	N/A	N/A	N/A	Radiator	Metal	Tan	Chipping	2 SF
4480	Room 21		W4	Plaster	White	Moisture	10 SF	0	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 22 & Room 23 (combined)		W1	Sheetrock	White	Flaking	20 SF	0.1	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 22 & Room 23 (combined)		W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Tan	Flaking	5 SF
4480	Room 22 & Room 23 (combined)		W2	Plaster	White	Flaking	5 SF	0	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 22 & Room 23 (combined)		W3	Plaster	White	Flaking	15 SF	-0.3	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 22 & Room 23 (combined)		W3	N/A	N/A	N/A	N/A	N/A	N/A	Radiator	Metal	Tan	Chipping	20 SF
4480	Room 22 & Room 23 (combined)		W4	Plaster	White	Flaking	5 SF	0	Negative	N/A	N/A	N/A	N/A	N/A
4480	Janitors Closet across from Room 22		NO DAMAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4480	Girls Restroom across from Room 22		W3	Sheetrock	White	Flaking	3 SF	0.3	Negative	N/A	N/A	N/A	N/A	N/A
4480	Boys Restroom across from Room 23		NO DAMAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4480	Room 24		W3	N/A	N/A	N/A	N/A	N/A	N/A	Radiator	Metal	Tan	Flaking	5 SF
4480	2ND FL: N. 67th Street Side Stairwell		Floor	Metal	Tan	Flaking	25 SF	0	Negative	N/A	N/A	N/A	N/A	N/A
4480	2ND FL: N. 67th Street Side Stairwell		Floor	N/A	N/A	N/A	N/A	N/A	N/A	Newel posts	Metal	Tan	Flaking	10 SF
4480	Room 25		W3	Plaster	Blue	Moisture	10 SF	-0.2	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 25		W3	N/A	N/A	N/A	N/A	N/A	N/A	Radiator	Metal	Blue	Chipping	15 SF
4480	Room 25		W4	Sheetrock	Blue	Flaking	5 SF	-0.2	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 25		W4	N/A	N/A	N/A	N/A	N/A	N/A	Radiator	Metal	Blue	Chipping	5 SF
4480	3RD FL: N. 67th Street Side Stairwell		Floor	Metal	Tan	Flaking	20 SF	0.1	Negative	N/A	N/A	N/A	N/A	N/A
4480	3RD FL: N. 67th Street Side Stairwell		Floor	N/A	N/A	N/A	N/A	N/A	N/A	Newel posts	Metal	Tan	Chipping	10 SF
4480	3RD FL: N. 67th Street Side Stairwell		W4	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Tan	Chipping	5 SF
4480	N. 67th Street Side Stairwell Entrance Vestibule		W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Tan	Flaking	10 SF
4480	3rd Floor Hallway		W1	Sheetrock	White	Flaking	10 SF	0	Negative	N/A	N/A	N/A	N/A	N/A
4480	3rd Floor Hallway		W3	Sheetrock	White	Flaking	10 SF	0.1	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 31		W1	Sheetrock	White	Flaking	2 SF	-0.1	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 31		W2	Sheetrock	White	Flaking	2 SF	0.2	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 31		W3	Plaster	White	Flaking	5 SF	-0.3	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 31		W3	N/A	N/A	N/A	N/A	N/A	N/A	Radiator	Metal	Tan	Flaking	5 SF
4480	Room 31		W4	Sheetrock	White	Cracking	10 SF	-0.1	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 32 & Room 33 (combined)		W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Tan	Flaking	10 SF
4480	Room 32 & Room 33 (combined)		W1	Sheetrock	White	Flaking	10 SF	-0.1	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 32 & Room 33 (combined)		W3	Plaster	White	Flaking	20 SF	-0.2	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 32 & Room 33 (combined)		W3	N/A	N/A	N/A	N/A	N/A	N/A	Radiator	Metal	Tan	Flaking	25 SF
4480	Janitors Closet across from Room 22		W2	Plaster	White	Flaking	5 SF	0.2	Negative	N/A	N/A	N/A	N/A	N/A
4480	Janitors Closet across from Room 22		W3	Plaster	White	Flaking	10 SF	0.1	Negative	N/A	N/A	N/A	N/A	N/A
4480	Janitors Closet across from Room 22		W4	Plaster	White	Flaking	2 SF	-0.4	Negative	N/A	N/A	N/A	N/A	N/A
4480	Janitors Closet across from Room 22		Ceiling	Plaster	White	Flaking	2 SF	0.2	Negative	N/A	N/A	N/A	N/A	N/A
4480	Girls Restroom across from Room 33		W3	Plaster	White	Cracking	5 SF	0.1	Negative	N/A	N/A	N/A	N/A	N/A
4480	Boys Restroom across from Room 32		NO DAMAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4480	Room 34		W1	Plaster	White	Flaking	5 SF	-0.2	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 34		W3	Plaster	White	Cracking	5 SF	0.1	Negative	N/A	N/A	N/A	N/A	N/A
4480	Room 34		W3	N/A	N/A	N/A	N/A	N/A	N/A	Radiator	Metal	Tan	Flaking	5 SF
4480	Room 34		W4	N/A	N/A	N/A	N/A	N/A	N/A	Radiator	Metal	Tan	Flaking	5 SF
4480	Mechanical Room with Air Handling Unit		NO DAMAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4480	3RD FL: N. 68th Street Side Stairwell		W1	Sheetrock	White	Flaking	5 SF	-0.3	Negative	N/A	N/A	N/A	N/A	N/A
4480	3RD FL: N. 68th Street Side Stairwell		W3	Sheetrock	White	Flaking	10 SF	-0.3	Negative	N/A	N/A	N/A	N/A	N/A
4480	3RD FL: N. 68th Street Side Stairwell		W4	Plaster	White	Flaking	15 SF	-0.1	Negative	N/A	N/A	N/A	N/A	N/A
4480	3RD FL: N. 68th Street Side Stairwell		W4	N/A	N/A	N/A	N/A	N/A	N/A	Door/FRAME	Metal	Tan	Flaking	25 SF
4480	3RD FL: N. 68th Street Side Stairwell		Floor	Metal	Tan	Flaking	20 SF	0	Negative	N/A	N/A	N/A	N/A	N/A



4480	Lobby adjacent to Gymnasium		W4	Plaster	Multi	Chipping	3	15.9						
4480	Custodial Closet in Lobby		W2	Plaster	Tan	Chipping	2	0.1						
4480	Custodial Closet in Lobby		W4	Plaster	Tan	Chipping	2	0.1		Door Frame	Metal	Green	Chipping	3
4480	Restroom in Lobby		W1							Door Frame	Metal	Green	Chipping	3
4480	Gymnasium		W1	Plaster	Tan	Chipping	35	0						
4480	Gymnasium		W2	Plaster	Tan	Chipping	50	0						
4480	Gymnasium		W3	Plaster	Tan	Chipping	20	0.1		Columns	Wood	White	Chipping	15
4480	Gymnasium		W4	Plaster	Tan	Chipping	20	0.1						
4480	Gymnasium		Ceiling	Plaster	Tan	Chipping	50	0.1						
4480	Stage		W1	Plaster	Black	Chipping	20	-0.3						
4480	Stage		W2	Plaster	Black	Chipping	10	0.1						
4480	Stage		W3	Plaster	Black	Chipping	10	0.1						
4480	Stage		W4	Plaster	Black	Chipping	5	0.1						
4480	Stage		Ceiling	Plaster	Black	Chipping	40	0.1						
4480	Hallway Behins Stage Area		W1	Plaster	Yellow	Chipping	2	-0.1						
4480	Hallway Behins Stage Area		W2	Plaster	Yellow	Chipping	5	0.1						
4480	Hallway Behins Stage Area		W3	Plaster	Yellow	Chipping	5	0.1						
4480	Hallway Behins Stage Area		W4	Plaster	Yellow	Chipping	5	0.1						
4480	Hallway from Nurse to Main Office		W3	Plaster	Yellow	Chipping	5	0						
4480	Hallway from Nurse to Main Office		W1	Plaster	Yellow	Chipping	5	0		Door Frame	Metal	Green	Chipping	6
4480	Nurses Office		W3	Plaster	White	Chipping	2	0						
4480	Exam Room					None								
4480	Nurses Restroom					None								
4480	Conference Room		W2	Plaster	White	Chipping	2	-0.2						
4480	Conference Room		W3	Plaster	White	Chipping	2	-0.2						
4480	Principals Office					None								
4480	Main Office Work Room					None								
4480	Main Office		W3	Plaster	White	Chipping	5	-0.1						
4480	Faculty Lounge - Room 201		W4	Plaster	Tan	Chipping	10	-0.1						
4480	Faculty Lounge - Room 201		W1	Plaster	Tan	Chipping	4	0.2						
4480	Storage at Room 201		W3	Plaster	Yellow	Chipping	2	-0.2						
4480	Hallway at Room 201		W2	Plaster	Tan	Chipping	10	0						
4480	Hallway from 206 to 210		W1	Plaster	Tan	Chipping	74	0		Columns	Plaster	Purple	Chipping	56
4480	Hallway from 206 to 210		W3	Plaster	Tan	Chipping	40	0		Columns	Plaster	Purple	Chipping	4
4480	Hallway from 206 to 210		W3							Door	Metal	Blue	Chipping	6
4480	Room 220		W1	Plaster	Tan	Chipping	18	0.2		Door Frame	Metal	Blue	Chipping	8
4480	Room 220		W3	Plaster	Tan	Chipping	24	0.1						
4480	Room 220		W4	Plaster	Tan	Chipping	4	0.1						
4480	Room 221		W2	Plaster	Tan	Chipping	4	0.1						
4480	Utility Room		W1							Door Frame	Metal	Blue	Chipping	6
4480	Data Closet		W3							Door Frame	Metal	Blue	Chipping	5
4480	Custodial Closet		W2	Plaster	Tan	Chipping	50	0.1						
4480	Custodial Closet		W4	Plaster	Tan	Chipping	10	0.1						
4480	Custodial Closet		W3							Door Frame	Metal	Blue	Chipping	4
4480	Room 210		W1	Plaster	Tan	Chipping	2	0						
4480	Room 211		W1	Plaster	Tan	Chipping	16	0		Door Frame	Metal	Blue	Chipping	4
4480	Room 209		W1	Plaster	Tan	Chipping	25	-0.2						
4480	Room 208		W1	Plaster	Tan	Chipping	10	-0.1		Door Frame	Metal	Blue	Chipping	6



















(mg/cm2)	Component XRF	(describe location)	Quantity (sf)	Moved	Moisture	Needed (yes or	Comments/ Description/ Notes
N/A	N/A						
0.1	Negative						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
0.1	Negative						
0.1	Negative						
N/A	N/A						
N/A	N/A						
N/A	N/A						
0.3	Negative						
N/A	N/A						
N/A	N/A						
0	Negative						
N/A	N/A						
N/A	N/A						
0.1	Negative						
0.1	Negative						
0.1	Negative						
N/A	N/A						
0.5	Negative						
0	Negative						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
0.1	Negative						
0.2	Negative						
0	Negative						
N/A	N/A						
0	Negative						
0.1	Negative						
N/A	N/A						
N/A	N/A						
N/A	N/A						
0.1	Negative						
N/A	N/A						
-0.2	Negative						
N/A	N/A						
N/A	N/A						
0	Negative						
N/A	N/A						

N/A	N/A						
0.3	Negative						
N/A	N/A						
0	Negative						
0.2	Negative						
N/A	N/A						
N/A	N/A						
0.3	Negative						
N/A	N/A						
N/A	N/A						
0	Negative						
N/A	N/A						
N/A	N/A						
0.1	Negative						
N/A	N/A						
N/A	N/A						
0.1	Negative						
N/A	N/A						
N/A	N/A						
N/A	N/A						
-0.2	Negative						
N/A	N/A						
0	Negative						
N/A	N/A						
0.2	Negative						
N/A	N/A						
0	Negative						
N/A	N/A						
0.1	Negative						
0	Negative						
0	Negative						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
-0.3	Negative						
N/A	N/A						
0.2	Negative						
N/A	N/A						
N/A	N/A						
0	Negative						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
0	Negative						
0	Negative						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
0.1	Negative						
N/A	N/A						

0	Negative						
0.1							
0.1							
-0.1							
0.1							
-0.1							
0							
0							
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