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

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.

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:

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2A</td>
<td>2C</td>
<td>2D</td>
<td>208</td>
<td>210</td>
</tr>
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</table>

Provide each SGL door(s) with the following:

<table>
<thead>
<tr>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>CATALOG NUMBER</th>
<th>FINISH</th>
<th>MFR</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>ALL EXISTING HARDWARE TO REMAIN</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>2</td>
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Provide each SGL door(s) with the following:

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

HARDWARE SET NO. OV-03

For use on Door Numbers:

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
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Provide each SGL door(s) with the following:

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<th>DESCRIPTION</th>
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<th>FINISH</th>
<th>MFR</th>
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<tbody>
<tr>
<td>3</td>
<td>HINGE</td>
<td>5BB1HW 4.5 X 4.5 NRP</td>
<td>652</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>FIRE EXIT HARDWARE</td>
<td>98-L-F-2SI-17</td>
<td>626</td>
<td>VON</td>
</tr>
<tr>
<td>2</td>
<td>PERMANENT LOCK CORE</td>
<td>KEYED TO EXISTING SYSTEM</td>
<td>626</td>
<td>C-R</td>
</tr>
<tr>
<td>2</td>
<td>RIM CYLINDER</td>
<td>TO MATCH EXISTING PYRAMID SYSTEM</td>
<td>626</td>
<td>C-R</td>
</tr>
<tr>
<td>1</td>
<td>SURFACE CLOSER</td>
<td>4111 EDA</td>
<td>689</td>
<td>LCN</td>
</tr>
<tr>
<td>1</td>
<td>KICK PLATE</td>
<td>8400 10&quot; X 2&quot; LDW B-CS</td>
<td>630</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>WALL STOP</td>
<td>WS406/407CCV</td>
<td>630</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>GASKETING</td>
<td>188SBK PSA</td>
<td>BK</td>
<td>ZER</td>
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### HARDWARE SET NO. OV-04

For use on Door Numbers:

1B, 1C

Provide each SGL door(s) with the following:

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<th>DESCRIPTION</th>
<th>CATALOG NUMBER</th>
<th>FINISH</th>
<th>MFR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HINGE</td>
<td>5BB1 4.5 X 4.5</td>
<td>652</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>PASSAGE SET</td>
<td>ND10S SPA</td>
<td>626</td>
<td>SCH</td>
</tr>
<tr>
<td>1</td>
<td>OH STOP</td>
<td>90S</td>
<td>630</td>
<td>GLY</td>
</tr>
<tr>
<td>3</td>
<td>SILENCER</td>
<td>SR64</td>
<td></td>
<td></td>
</tr>
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</table>

### HARDWARE SET NO. OV-05

For use on Door Numbers:

2B

Provide each SGL door(s) with the following:

<table>
<thead>
<tr>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>CATALOG NUMBER</th>
<th>FINISH</th>
<th>MFR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HINGE</td>
<td>5BB1 4.5 X 4.5</td>
<td>652</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>VANDL ENTRANCE LOCK</td>
<td>ND92TD SPA</td>
<td>626</td>
<td>SCH</td>
</tr>
<tr>
<td>1</td>
<td>FSIC CORE</td>
<td>23-030</td>
<td>626</td>
<td>SCH</td>
</tr>
<tr>
<td>1</td>
<td>WALL STOP</td>
<td>WS406/407CCV</td>
<td></td>
<td></td>
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<td>1</td>
<td>GASKETING</td>
<td>188SBK PSA</td>
<td>BK</td>
<td>ZER</td>
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### HARDWARE SET NO. OV-06

For use on Door Numbers:

32

Provide each SGL door(s) with the following:

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<th>QTY</th>
<th>DESCRIPTION</th>
<th>CATALOG NUMBER</th>
<th>FINISH</th>
<th>MFR</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>HINGE</td>
<td>5BB1 4.5 X 4.5 NRP</td>
<td>652</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>VANDL CLASSROOM SEC</td>
<td>ND95JDCO6 SPA XN12-035</td>
<td>626</td>
<td>SCH</td>
</tr>
<tr>
<td>2</td>
<td>PERMANENT LOCK CORE</td>
<td>KEYED TO EXISTING SYSTEM</td>
<td>626</td>
<td>C-R</td>
</tr>
<tr>
<td>1</td>
<td>MOUNTING PLATE</td>
<td>12-2-CW 5 1/8&quot; x 12&quot;</td>
<td>630</td>
<td>DON</td>
</tr>
<tr>
<td>1</td>
<td>CUSTOM LOCK STRIKE</td>
<td>IF REQUIRED BY EXISTING FRAME PREPS</td>
<td>626</td>
<td>ACC</td>
</tr>
<tr>
<td>1</td>
<td>WALL STOP</td>
<td>WS406/407CCV</td>
<td>630</td>
<td>IVE</td>
</tr>
</tbody>
</table>
HARDWARE SET NO. OV-07

For use on Door Numbers:

1D

Provide each SGL door(s) with the following:

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

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

Provide each PR door(s) with the following:

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

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 1st 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”.

Page 5 of 12
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.
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.
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:

   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.
   3. LR: 0.84.
   4. NRC: Not less than 0.70.
   5. CAC: Not less than 35.
   6. Edge Detail: Square.

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:

   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.
3. LR: 0.84.
4. NRC: Not less than 0.70.
5. CAC: Not less than 35.
6. Edge Detail: Square.
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.


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.

ACOUSTICAL PANEL CEILINGS
Addendum No. 1 - 09 5113 PAGE 4 OF 7
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.

2. End Condition of Cross Runners: Butt-edge type.
3. Face Design: Flat, flush.

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,
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
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” line-by-line 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. 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:
      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.

I. Conductor Connectors: Suitable for use with conductor material and sizes.
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).


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.


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
OVERALL FIRST FLOOR REFLECTED CEILING PLAN

LEGEND

1. UNLESS NOTED OTHERWISE, GYPSUM BULKHEADS TO BE 3 5/8" METAL STUDS AT 16" O/C WITH 5/8" GWB EACH SIDE, EXTENDING MIN. 1" BELOW ADJACENT CEILING.
2. CEILING GRID SHALL BE COORDINATED WITH MEP EQUIPMENT AND DEVICES.
3. 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.
4. REFER TO ROOM FINISH SCHEDULE FOR CEILING TYPES.
5. 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.
6. 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.
7. REFER TO SHEET CS.2 FOR ADDITIONAL INFORMATION.

1' X 4' LIGHT FIXTURE
PENDANT LIGHT FIXTURES
ROLLER SHADE - MANUAL
2' X 4' SUSPENDED CEILING SYSTEM
2' X 2' SUSPENDED CEILING SYSTEM
GYPSUM WALLBOARD
2' X 4' LIGHT FIXTURE
2' X 2' LIGHT FIXTURE
SEE MEP DRAWINGS
SEE MEP DRAWINGS
RECESSED DOWN LIGHT
2' X 4' ACOUSTICAL CEILING TILE, EXISTING GRID TO REMAIN
ROLLER SHADE - MANUAL (2)

NOT IN SCOPE

3/5/2020

ADDENDUM # 1
### General Notes

1. **Mural:** A mural shall be painted in each room with a specific theme related to the subject matter engaged within that room.
2. **Signage:** Signage shall be provided for all rooms as per the schedule below.
3. **Lighting:** Lighting fixtures shall be provided in accordance with the specifications.
4. **Flooring:** All flooring shall be of high-quality material that is easy to clean and maintain.
5. **Ceiling:** Ceiling height shall be maintained as per the standards set by the local authorities.

### Signage Schedule - Main Building

<table>
<thead>
<tr>
<th>Room</th>
<th>Sign to Read</th>
<th>Sign Type</th>
<th>Directional Arrow</th>
<th>Arrow</th>
<th>City</th>
<th>Remarks</th>
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### Signage Schedule - Annex

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<th>Room</th>
<th>Sign to Read</th>
<th>Sign Type</th>
<th>Directional Arrow</th>
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### ROOF FINISH SCHEDULE - MAIN BUILDING

<table>
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<tr>
<th>Number</th>
<th>Name</th>
<th>Color Scheme</th>
<th>Floor Base</th>
<th>Wall Finish</th>
<th>Windows Finish</th>
<th>Ceiling Finish</th>
<th>Rearms</th>
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### ROOF FINISH SCHEDULE - ANNEX

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<tr>
<th>Number</th>
<th>Name</th>
<th>Color Scheme</th>
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### General Note

In reference to signage drawings:

- Signage shall be of a high-quality material that is durable and weather-resistant.
- Signage shall be clearly visible and legible from a distance.
- Signage shall be located in accordance with the specified locations.

### Room Finish & Signage Schedule

<table>
<thead>
<tr>
<th>Room</th>
<th>Finish Schedule</th>
<th>Signage Schedule</th>
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### Color Scheme Schedule

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<th>Designation</th>
<th>Description</th>
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### General Note

In reference to color scheme:

- Color schemes shall be selected based on the specified color combinations.
- Color schemes shall be coordinated with the overall theme of the educational center.

### Room Finish

- **Base Finish:** All base finishes shall be of high-quality material that is easy to clean.
- **Wall Finish:** All wall finishes shall be of high-quality material that is easy to clean.
- **Ceiling Finish:** Ceiling finishes shall be of high-quality material that is easy to clean.

### Overbrook Educational Center

- **Location:** Overbrook, Philadelphia, PA
- **Architect:** XYZ Associates
- **Owner:** Philadelphia School District
- **Date:** October 2023

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*Disclaimer: The above information is for demonstration purposes only and may not accurately reflect the actual specifications of the Overbrook Educational Center project.*
ELECTRICAL GENERAL NOTES

1. REFER TO DETAIL ON DRAWING E7.1 FOR TYPICAL DEVICE MOUNTING HEIGHTS.
2. PAGE 16
3. WALL MOUNTED DUPLEX OR QUAD RECEPTACLE, 20A, 125V, NEMA 5-20R OUTLETS MAY HAVE THE FOLLOWING SUBSCRIPTS:
   A) SAFETY GROUNDED
   B) SAFE GROUNDED

ELECTRICAL LEGEND

A. APPLIANCE OUTLET
B. APPLIANCE OUTLET WITH GROUND FAULT INTERRUPTER
C. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
D. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
E. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
F. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
G. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
H. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
I. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
J. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
K. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
L. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
M. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
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S. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
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U. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
V. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
W. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
X. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
Y. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION
Z. APPLIANCE OUTLET WITH GROUND FAULT PROTECTION

ELECTRICAL DEMOLITION NOTES

A. THE GENERAL CONTRACTOR IS NOT RESPONSIBLE FOR DISCONNECTING OR REMOVING ELECTRICAL METER EQUIPMENT. THE OWNER OR THEIR DESIGNEE IS RESPONSIBLE FOR DISCONNECTING OR REMOVING THE ELECTRICAL METER EQUIPMENT.
B. CONTRACTOR SHALL ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION, PER CONSTRUCTION DOCUMENTS AND FACTORY APPLICATION.
C. ADEQUATELY PACKAGED AND PROTECTED LABELS, AND OTHER INFORMATION NEEDED FOR DISTINCT IDENTIFICATION; ADEQUATELY PACKAGED AND PROTECTED LABELS, AND OTHER INFORMATION NEEDED FOR DISTINCT IDENTIFICATION;
D. PROVIDE CIRCUIT BREAKERS, WIRING, CONDUIT, ETC. REQUIRED TO RECONNECT EXISTING-TO-REMAIN ELECTRICAL EQUIPMENT. APPROVED DEVIATIONS MAY BE MADE TO PROVIDE REQUIRED ACCESSIBILITY.
E. THE EXISTING MATERIALS AND EQUIPMENT DAMAGED DURING THE COURSE OF THE CONSTRUCTION PROCESS SHALL BE REPLACED WITH MATERIALS AND EQUIPMENT CONFORMING TO EXISTING SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER.
F. REPLACE OR REPLACE ALL EXISTING ELECTRICAL MATERIALS AND EQUIPMENT AS REQUIRED TO ENSURE ACTUAL ERECTION WILL PROCEED WITHOUT INTERFERENCE. COORDINATION IS OF PARAMOUNT IMPORTANCE AND NO REQUESTS FOR ADDITIONAL PAYMENT WILL BE CONSIDERED WHERE REQUEST IS BASED ON INTERFERENCE.

GENERAL LIGHTING FIXTURE SCHEDULE NOTES

A. LIGHT FIXTURES MAY BE INDICATED WITH THE FOLLOWING SUBSCRIPTS:
   A) APPROVED MATERIALS
   B) APPROVED DEVIATIONS

WIRE SIZING CHART NOTES:

A. PROTECT FROM DAMAGE ALL EXISTING EQUIPMENT, DEVICES AND MATERIALS TO REMAIN. ANY EXISTING MATERIALS AND EQUIPMENT DAMAGED DURING THE COURSE OF THE CONSTRUCTION PROCESS SHALL BE REPLACED WITH MATERIALS AND EQUIPMENT CONFORMING TO EXISTING SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER.

EQUIPMENT. APPROVED DEVIATIONS MAY BE MADE TO PROVIDE REQUIRED ACCESSIBILITY.

CIRCUIT WIRING AND CONDUIT INFRASTRUCTURE AS REQUIRED TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.

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EQUIPMENT. APPROVED DEVIATIONS MAY BE MADE TO PROVIDE REQUIRED ACCESSIBILITY.

CIRCUIT WIRING AND CONDUIT INFRASTRUCTURE AS REQUIRED TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.
1. Refer to Drawing E0.1 for electrical general notes, general demolition notes, legend and abbreviations.

2. Unless otherwise noted, all electrical devices shown on the demolition plans with dashed lines.

3. All existing devices to remain shall be protected from damage throughout the construction process.

4. 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 wiring/conduit as required.

5. Disconnect and remove all existing synchronous panel P1 (D) blank cover plate, patch and paint around cover plate and along the removed conduit/raceway route, new finish to match adjacent existing wall construction. Contractor to field test and verify functionality of existing public address speaker. Provide new public address speaker if required, new to match existing specifications.

6. Disconnect and remove existing receptacle, associated wiring and conduit/raceway. Patch and paint along the finish to match adjacent existing wall construction.

7. Disconnect and remove existing data outlets and 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.

8. Remove and relocate existing wireless access point to accommodate new construction. Refer to new work plan for additional information.

9. Remove and relocate existing fire alarm pull station to accommodate new construction. Refer to new work plan for additional information.

10. 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.

Electrical contractor to provide allowance for removal of 10'-0" of surface mounted raceway/conduit and conductors in each classroom.
2. UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES SHOWN ON THE DEMOLITION PLANS WITH DASHED LINES INDICATE AN EXISTING DEVICE TO BE DEMOLISHED.

3. ALL EXISTING DEVICES TO REMAIN SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.

4. THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN.

1. ALL LIGHTING FIXTURES, CONTROLS AND ASSOCIATED WIRING TO BE REMOVED BACK TO SOURCE OF TERMINATION SERVING EXISTING PUBLIC ADDRESS SPEAKER. PROVIDE NEW PUBLIC ADDRESS SPEAKER IF REQUIRED, NEW TO MATCH EXISTING EXISTING PANELBOARD "P2" AND REPLACE IN PLACE. CONTRACTOR TO UTILIZE, INTERCEPT AND EXTEND ALL EXISTING ACTIVE FEEDER AND BRANCH CIRCUIT WIRING/CONDUIT TO REMAIN IN PLACE. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.

2. 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:

3. CEILING MOUNTED DUPLEX PROJECTOR OUTLET TO BE PROVIDE NEW CEILING TILE IN PLACE. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPE SPECIFICATIONS AND ADDITIONAL INFORMATION.

4. DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES WITH 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.

5. 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.

6. DISCONNECT AND REMOVE EXISTING RECEPTACLE, 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.

7. 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.

8. DISCONNECT AND REMOVE EXISTING DATA OUTLETS AND 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.

9. 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.

10. 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.

11. 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.

12. 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.

13. DISCONNECT AND REMOVE EXISTING IT RACK TO ACCOMMODATE NEW CONSTRUCTION. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
1. REFER TO DRAWING E0.1 FOR ELECTRICAL GENERAL NOTES, GENERAL DEMOLITION NOTES, LEGEND AND ABBREVIATIONS.

2. UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES SHOWN ON THE DEMOLITION PLANS WITH DASHED LINES INDICATE AN EXISTING DEVICE TO BE DEMOLISHED.

3. ALL EXISTING DEVICES TO REMAIN SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.

4. THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED.

1. 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.

2. 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.

3. 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.

4. 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.

5. 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.

6. DISCONNECT AND REMOVE EXISTING DATA OUTLETS AND COVEPLATE ALONG WITH ASSOCIATED CAT5 CABLE, EXISTING CONDUIT TO REMAIN IN PLACE. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.

7. 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.

8. UNLESS OTHERWISE NOTED, ALL ELECTRICAL OUTLETS AND FIRE ALARM DEVICES SERVING THIS AREA ARE EXISTING TO REMAIN.
1. REFER TO DRAWING E0.1 FOR GENERAL NOTES, LEGEND, DRAWING E7.1 FOR DETAILS.

2. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND CLOSET ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF LIGHTING FIXTURES AND CONTROL DEVICES.

3. 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.

4. PROVIDE NEW DIMMER SWITCHES WITH COVER PLATE IN NEW BACKBOX. COORDINATE EXACT CONNECTION REQUIREMENTS WITH LIGHTING MANUFACTURER PRIOR TO INSTALLATION.

2. CONTRACTOR TO FIELD VERIFY SOURCE OF THE EXISTING LIGHTING CIRCUIT PRIOR TO COMMENCING NEW LIGHTING INSTALLATION. CIRCUIT NUMBER SHOWN FOR REFERENCE ONLY. PROVIDE NEW TOGGLE SWITCH WITH COVERPLATE AND NEW LIGHTING FIXTURE/S IN EXISTING BACKBOXES. EXISTING WIRING TO REMAIN IN PLACE.

3. 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 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.

4. CONNECT AHEAD OF LOCAL SWITCH SERVING AREA.

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**SEAL:**

---

**CONRAD DELA CRUZ**

STATE AND LICENSE NO: PE089048

**MECHANICSBURG, PA 17055**

**Phone:** 717-458-0272

**Email:** jharder@cra-architects.com

**Attn:** Jessie Harder

**401 E. Winding Hill Road CRABTREE, ROHRBAUGH & ASSOCIATES**

**Mechanicsburg, PA 17055**

**Email:** deepak.at@setty.com

**Attn:** Deepak Ajjimane

**575 SOUTH CHARLES STREET, SUITE 403**

**Baltimore, MD 21201**

**Email:** andrew.elliott@setty.com

**Attn:** Andrew Elliott
1. REFER TO DRAWING E0.1 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND LIGHTING FIXTURE SCHEDULE AND DRAWING E7.1 FOR DETAILS.
2. 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.
3. 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.

1. PROVIDE NEW DIMMER SWITCHES WITH COVER PLATE IN NEW SURFACE MOUNTED BACKBOX. COORDINATE EXACT CONNECTION REQUIREMENTS WITH LIGHTING MANUFACTURER PRIOR TO INSTALLATION.

2. 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.

3. 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 FIXTURE/S IN EXISTING BACKBOXES. EXISTING WIRING TO REMAIN IN PLACE.

4. EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS SERVING THIS AREA ARE EXISTING TO REMAIN.

5. CONNECT AHEAD OF LOCAL SWITCH SERVING AREA.
1. REFER TO DRAWING E0.1 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND LIGHTING Fixture SCHEDULE AND DRAWING E7.1 FOR DETAILS.

2. 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.

3. 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.

1. PROVIDE NEW DIMMER SWITCHES WITH COVER PLATE IN EXISTING BACKBOX. COORDINATE EXACT CONNECTION REQUIREMENTS WITH LIGHTING MANUFACTURER PRIOR TO INSTALLATION.

2. 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.

3. 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/S IN EXISTING BACKBOXES. EXISTING WIRING TO REMAIN IN PLACE.

4. CONNECT AHEAD OF LOCAL SWITCH SERVING AREA.
1. REFER TO DRAWING E0.1 FOR ELECTRICAL GENERAL NOTES.
2. REFER TO ARCHITECTURAL DRAWINGS, ELEVATION & DETAILS FOR EXACT LOCATION OF ELECTRICAL DEVICES.
3. ALL RECEPTACLES, TELE/DATA OUTLETS WITH ASSOCIATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES.
4. ALL THE RECEPTACLES AND DATA OUTLETS WITHIN THE SCOPE TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER.
6. ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED TO AVOID CONFLICT WITH BASE PLATE. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATION AND MOUNTING HEIGHT.
7. PROVIDE NEW CAT6 CABLE, DATA OUTLETS WITH COVERPLATE AND RECONNECT TO EXISTING PATCH PANEL.
8. NEW PANELBOARD "P1". CONTRACTOR TO UTILIZE, INTERCEPT, WIRING/CONDUIT OF SAME SIZE VIA NEW JUNCTION BOX OR PULL BOX AND CONNECT IT TO THE NEW PANEL BOARD.
9. NEW LOCATION OF EXISTING WIRELESS ACCESS POINT. CONTRACTOR TO EXTEND EXISTING WIRING/CONDUIT AS REQUIRED TO NEW LOCATION. COORDINATE WITH ARCHITECT FOR EXACT LOCATION.
10. NEW LOCATION OF EXISTING FIRE ALARM PULL STATION. CONTRACTOR TO EXTEND EXISTING WIRING/CONDUIT AS REQUIRED TO NEW LOCATION. COORDINATE WITH DOOR MANUFACTURER FOR NEW SYSTEM. COORDINATE WITH PLUMBING DRAWINGS FOR EXACT CONNECTION REQUIREMENTS.
12. PROVIDE JUNTION BOX FOR REOCATED HYDRATION STATION.
13. PROVIDE CAT5E CABLE FOR BATTERY OPERATED WIRELESS CLOCK.
1. REFER TO DRAWING E0.1 FOR ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS.

2. FOR EXACT LOCATION OF ELECTRICAL DEVICES.

3. ALL RECEPTACLES, TELE/DATA 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.

4. 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.


6. ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OF EACH CLASSROOM.

7. PROVIDE NEW CAT6 CABLE, DATA OUTLETS WITH COVERPLATE AND RECONNECT TO EXISTING PATCH PANEL.

8. NEW PANELBOARD "P2". CONTRACTOR TO UTILIZE, INTERCEPT, FIRE ALARM DEVICES SERVING THIS AREA ARE EXISTING TO REMAIN.

9. UNLESS OTHERWISE NOTED, ALL ELECTRICAL OUTLETS AND TELEPHONE OUTLETS AND REPLACE AS REQUIRED. NEW TO MATCH EXISTING IN KIND MAKE AND TYPE.

10. NEW LOCATION OF EXISTING WIRELESS ACCESS POINT.

11. NEW LOCATION OF EXISTING IT RACK. CONTRACTOR TO COORDINATE IN FIELD FOR EXACT LOCATION.

12. 5. CONTRACTOR TO FIELD TEST FUNCTIONALITY OF EXISTING RECEPTACLES AND DATA OUTLETS AND REPLACE AS REQUIRED.
1. REFER TO DRAWING E0.1 FOR ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. REFER TO ARCHITECTURAL DRAWINGS, ELEVATION & DETAILS FOR EXACT LOCATION OF ELECTRICAL DEVICES.
3. ALL RECEPTACLES, TELE/DATA 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.
4. 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.
6. 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.

1. UNLESS OTHERWISE NOTED, ALL ELECTRICAL OUTLETS AND FIRE ALARM DEVICES SERVING THIS AREA ARE EXISTING TO REMAIN.
2. PROVIDE NEW TAMPER RESISTANT DEDICATED DUPLEX RECEPTACLE FOR LAPTOP CART CHARGING STATION.
3. NEW LOCATION OF RELOCATED PA SPEAKER. COORDINATE IN FIELD FOR EXACT LOCATION.
4. PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT.
5. 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 A5.1 DETAIL #1 AND # 2 FOR EXACT LOCATION AND MOUNTING HEIGHT.
6. CONTRACTOR TO FIELD TEST FUNCTIONALITY OF EXISTING TELEPHONE OUTLETS AND REPLACE AS REQUIRED. NEW TO MATCH EXISTING IN KIND MAKE AND TYPE.
7. PROVIDE NEW CAT6 CABLE, DATA OUTLETS WITH COVERPLATE AND RECONNECT TO EXISTING PATCH PANEL.
8. NEW PANELBOARD "P3". 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.
9. 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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#### Notes

1. Turn all spare circuit breakers to "OFF" position at completion of work.
2. New Circuit Breaker (if provided) must be compatible with existing panelboard (UL listed, manufactured by rating to match the existing panel rating).

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#### Office of Capital Programs

440 North Broad Street

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#### Lighting RM 22/23 (E)

- 20 A
- 1
- 0.3
- 0.2
- 2
- 1

#### Lighting Corridor (E)

- 20 A
- 1
- 0.7
- 0.2
- 4
- 1

#### Lighting (E)

- 20 A
- 1
- 5
- 0.6
- 0.2
- 6
- 1

#### Existing Load

- 20 A
- 1
- 0.6
- 0.2
- 14
- 1

#### Laptop Charging RM 1

- 20 A
- 1
- 0.6
- 0.2
- 20
- 1

#### Laptop Charging RM 22

- 20 A
- 1
- 0.6
- 0.2
- 20
- 1

#### LGTS Stairs (E)

- 20 A
- 1
- 0.6
- 0.0
- 22
- 1

#### LGTS Exit (E)

- 20 A
- 1
- 0.6
- 0.6
- 34
- 2

#### LGTS Em (E)

- 20 A
- 1
- 0.6
- 0.6
- 38
- 1

#### A/C Corridor/Offices (E)

- 20 A
- 1
- 0.6
- 0.4
- 1

#### A/C Upstairs Comp. RM

- 20 A
- 1
- 0.6
- 0.2
- 1

#### A/C Kitch. (E)

- 20 A
- 1
- 0.6
- 0.6
- 2
- 1

#### Rec. Library (E)

- 20 A
- 1
- 0.3
- 0.2
- 2
- 1

#### Rec. Kitchen (E)

- 20 A
- 1
- 0.6
- 0.6
- 2
- 1

#### Rec. Comp. RM (E)

- 20 A
- 1
- 0.6
- 0.2
- 1
- 2

#### Rec. Water Cooler (E)

- 20 A
- 1
- 0.6
- 0.9
- 2
- 1

#### Lighting (E)

- 20 A
- 1
- 0.6
- 0.2
- 1

#### Rec. Hand Dryer (E)

- 20 A
- 1
- 0.2
- 0.2
- 20
- 1

#### Rec. RM 1

- 20 A
- 1
- 0.6
- 0.2
- 32
- 1

#### Rec. RM 7

- 20 A
- 1
- 0.6
- 0.6
- 32
- 1

#### Rec. RM 22 (E)

- 20 A
- 1
- 0.2
- 0.2
- 24
- 1

#### Rec. RM 23

- 20 A
- 1
- 0.4
- 0.4
- 24
- 1

#### Rec. (E)

- 20 A
- 1
- 0.6
- 0.6
- 38
- 1

#### Rec. Water Cooler (E)

- 20 A
- 1
- 0.6
- 0.9
- 26
- 1

#### Rec. RM 207 SWT A (E)

- 20 A
- 1
- 0.9
- 1.0
- 4
- 1

#### Rec. RM 207 SWT B,C (E)

- 20 A
- 1
- 0.6
- 1.6
- 8
- 1

#### Rec. RM 210 (E)

- 20 A
- 1
- 0.6
- 1.6
- 8
- 1

#### Rec. Toilets 213, 216, 215 (E)

- 20 A
- 1
- 0.5
- 0.5
- 12
- 1

#### Rec. 208 (E)

- 20 A
- 1
- 0.9
- 0.9
- 22
- 1

#### Rec. RM 220 (E)

- 20 A
- 1
- 0.5
- 0.1
- 42
- 1

#### Rec. RM 221 (E)

- 20 A
- 1
- 0.3
- 0.3
- 46
- 1

#### Rec. RM 222 (E)

- 20 A
- 1
- 2.0
- 0.5
- 49
- 1

#### Rec. RM 223 (E)

- 20 A
- 1
- 2.0
- 0.5
- 50
- 1

#### Rec. RM 224 (E)

- 20 A
- 1
- 2.0
- 0.5
- 51
- 1

#### Rec. RM 225 (E)

- 20 A
- 1
- 2.0
- 0.5
- 52
- 1

#### Rec. RM 226 (E)

- 20 A
- 1
- 2.0
- 0.5
- 53
- 1

#### Rec. RM 227 (E)

- 20 A
- 1
- 2.0
- 0.5
- 54
- 1

#### Rec. RM 228 (E)

- 20 A
- 1
- 2.0
- 0.5
- 55
- 1

#### Rec. RM 229 (E)

- 20 A
- 1
- 2.0
- 0.5
- 56
- 1

#### Rec. RM 230 (E)

- 20 A
- 1
- 2.0
- 0.5
- 57
- 1

#### Rec. RM 231 (E)

- 20 A
- 1
- 2.0
- 0.5
- 58
- 1

#### Rec. RM 232 (E)

- 20 A
- 1
- 2.0
- 0.5
- 59
- 1

#### Rec. RM 233 (E)

- 20 A
- 1
- 2.0
- 0.5
- 60
- 1

---

#### Total Load:

- 6 kVA
- 5 kVA

#### Estimated Demand:

- 108 A
- 93 A

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#### Design Submission:

- 12453 VA
- 11453 VA

---

#### MEP Engineers:

- Phone: 717-458-0272
- Email: jharder@cra-architects.com
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 U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN 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. 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 96" 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:

2.2. IRON PIPE - NOM 12 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

2.3. CONDUIT - NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) STEEL TELEPHONE / DATA OUTLET.

2.4. COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

2.5. COPPER PIPE - NOM 6 IN. (152 MM) 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. ALL ANNULAR SPACES BETWEEN RATED STRUCTURE/ENCLOSURE SHALL BE FILLED WITH APPROVED MATERIAL COMPLYING WITH REQUIREMENTS OF UL 1479.
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 education 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. To remain and restore the utilities back to their original function.

5. 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.

6. 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.

7. Contractor to provide additional fittings/trims while connecting new fixtures to the existing plumbing rough-ins.

8. Mechanical contractor shall recover all refrigerant from systems prior to demolition. Recharge all systems at the completion of the work.

9. Coordinate with owner for storage or disposal of existing plumbing fixtures/valve installation.

10. Existing cabinet unit heater to remain.
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.

10. REMOVE ALL PERIMETER FINNED TUBE RADIATION ON THE CLASSROOMS, PREPARE PIPING FOR INSTALLATION OF NEW FINNED TUBE RADIATION AND ENCLOSURE TO MATCH EXISTING.

11. 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.
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.

10. REMOVE ALL PERIMETER FINNED TUBE RADIATION ON THE CLASSROOMS, PREPARE PIPING FOR INSTALLATION OF NEW FINNED TUBE RADIATION AND ENCLOSURE TO MATCH EXISTING.

11. REMOVE EXISTING SUPPLY DIFFUSER FOR FUTURE USE.
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. NEW WORK AND REMOVAL OF MATERIALS/COMPONENTS NOT REQUIRED FOR THE NEW AND RENOVATED SYSTEMS.

3. 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 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.

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.

1. NEW DRINKING FOUNTAIN, CONNECT NEW WATER AND VENT LINES OF SAME SIZE AS EXISTING DRINKING FOUNTAIN TO EXISTING ROUGH-INS. CONNECT NEW SANITARY DRAIN OF SAME SIZE AS EXISTING DRINKING FOUNTAIN BELOW SLAB TO NEAREST SANITARY LINE.

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 COMPATIBLE TO MOUNT/INSTALL 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 SINK. 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 ACCOMODATE THE HEIGHT FOR THE NEW CERAMIC TILE.

3. EXISTING LAVATORY AND FAUCET TO BE REPLACED WITH NEW FIXTURE SELECTION SHOULD 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, PROVIDE NEW WAX AND SEAL AT DRAIN PORT. PROVIDE AN EXTENDER ON TOILET FLANGE TO ACCOMODATE THE HEIGHT FOR THE NEW CERAMIC TILE.

4. NEW FINNED TUBE RADIATION (MANUFACTURER: VULCAN RADIATOR. MODEL: JDV3 14) AND ENCLOSURE TO MATCH EXISTING. CONTRACTOR TO IDENTIFY AND QUANTIFY THE NEW.

7. RELOCATED MECHANICAL INDOOR UNIT FROM OFFICE.

8. RELOCATED MECHANICAL INDOOR UNIT FROM ADJACENT WALL.

9. EXISTING MECHANICAL INDOOR UNIT TO REMAIN.
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.

10. 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.

11. NEW FINNED TUBE RADIATION (MANUFACTURER: VULCAN RADIATOR. MODEL: JDV3 14) AND ENCLOSURE TO MATCH EXISTING. CONTRACTOR TO IDENTIFY AND QUANTIFY THE NEW SYSTEMS.

12. EXISTING MECHANICAL INDOOR UNIT REINSTALLED IN PLACE.

13. SANYO#KMS18225. EXISTING CLASSROOM UNIT VENTILATOR. WIREBRUSH GRILLE. PRIME AND PAINT TO MATCH.
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.

1. New finned tube radiation (manufacturer: Vulcan Radiator. Model: JDV3 14) and enclosure to match existing. Contractor to identify and quantify the new systems.

2. Clean and reinstall supply diffuser to existing ductwork.
Lead Safe Certification for Overbrook Education Center

Name of Inspector: Charles Rhodes

Inspection Dates: through 4ULCS 4480

Inspection Company: Batta Environmental

ULCS#  Component (see) Material Color Primary Damage Component Damage (mg/cm2) Component terms Substrate Material Color and Plaster Damage Component Damage

4480  Hallway outside of the Boiler Room and 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  Boiler Room W3 Concrete White Flaking 50 SF 0.1 Negative N/A N/A N/A N/A N/A N/A N/A N/A

4480  Boiler Room W4 Brick White Flaking 5 SF -0.1 Negative N/A N/A N/A N/A N/A N/A N/A N/A

4480  Classroom 11 W1 Sheetrock White Flaking 3 SF -0.2 Negative N/A N/A N/A N/A N/A N/A N/A

4480  Classroom 11 W3 Concrete White Flaking 30 SF -0.4 Negative N/A N/A N/A N/A N/A N/A N/A

4480  IT Closet inside Classroom 11 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  Restroom inside Classroom 11 W2 Concrete White Flaking 5 SF -0.4 Negative N/A N/A N/A N/A N/A N/A N/A

4480  Classroom 12 Celing Plaster Tan Flaking 10 SF 0.1 Negative N/A N/A N/A N/A N/A N/A N/A

4480  Hallway between Classroom 12 and Cafeteria Celing Plaster Tan Flaking 10 SF 0.1 Negative N/A N/A N/A N/A N/A N/A N/A

4480  N. 67th Street Side Stairwell W1 N/A N/A N/A N/A N/A N/A N/A Door Metal Yellow Flaking 3 SF

4480  N. 67th Street Side Stairwell W1 N/A N/A N/A N/A N/A N/A N/A Door Frame Metal Tan Flaking 10 SF

4480  N. 67th Street Side Stairwell Floor Metal Tan Flaking 20 SF 9 Negative N/A N/A N/A N/A N/A N/A N/A

4480  N. 67th Street Side Stairwell N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

4480  Cafeteria Celing Plaster Tan Flaking 2 SF 0.1 Negative N/A N/A N/A N/A N/A N/A N/A

4480  N. 68th Street Side Stairwell W1 N/A N/A N/A N/A N/A N/A N/A Door Metal Tan Flaking 5 SF

4480  N. 68th Street Side Stairwell Floor Metal Tan Flaking 20 SF -2 Negative N/A N/A N/A N/A N/A

4480  N. 68th Street Side Stairwell W3 Sheetrock White Flaking 2 SF 0.1 Negative N/A N/A N/A N/A N/A N/A N/A

4480  N. 68th Street Side Stairwell Entrance Vestibule W1 N/A N/A N/A N/A N/A N/A N/A Door Metal Tan Flaking 10 SF

4480  Kitchen W1 Sheetrock White Flaking 10 SF -0.4 Negative N/A N/A N/A N/A N/A N/A N/A

4480  Kitchen W3 Plaster White Flaking 10 SF -0.4 Negative N/A N/A N/A N/A N/A N/A N/A

4480  Kitchen W3 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

4480  Office across from Kitchen W1 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

4480  Office across from Kitchen W3 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

4480  Main Open Area W1 Plaster White Cracking 10 SF 0.2 Negative N/A N/A N/A N/A N/A N/A N/A

4480  Main Open Area W1 N/A N/A N/A N/A N/A N/A N/A Door Metal Grey Flaking 5 SF

4480  Main Open Area W1 N/A N/A N/A N/A N/A N/A N/A Door Frame Metal Tan Flaking 25 SF

4480  Main Open Area W2 Sheetrock White Flaking 20 SF 9 Negative N/A N/A N/A N/A N/A N/A N/A

4480  Main Open Area W4 Sheetrock White Flaking 20 SF -2 Negative N/A N/A N/A N/A N/A N/A N/A

4480  Kindergarten Classroom 1 W1 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

4480  Kindergarten Classroom 1 W1 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

4480  Kindergarten Classroom 1 W2 Sheetrock White Flaking 5 SF -0.1 Negative N/A N/A N/A N/A N/A N/A N/A

4480  Kindergarten Classroom 1 W3 Sheetrock White Cracking 10 SF 0.1 Negative N/A N/A N/A N/A N/A N/A N/A

4480  Kindergarten Classroom 1 W4 Sheetrock White Flaking 20 SF -0.2 Negative N/A N/A N/A N/A N/A N/A N/A

4480  Restroom Closer to Kitchen in Kindergarten 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  Restroom along Wisdom Way in Kindergarten 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  Office beside N. 67th Street Side Stairwell W1 N/A N/A N/A N/A N/A N/A N/A Door Frame Metal Tan Flaking 5 SF

4480  Office beside N. 67th Street Side Stairwell W3 N/A N/A N/A N/A N/A N/A N/A Radiator Metal Tan Chipping 5 SF

4480  N. 67th Street Side Stairwell W3 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

4480  N. 67th Street Side Stairwell Floor Metal Tan Flaking 20 SF 0 Negative N/A N/A N/A N/A N/A N/A

4480  Special Education Classroom 2 W1 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

4480  Special Education Classroom 2 W1 Sheetrock White Flaking 30 SF 0 Negative N/A N/A N/A N/A N/A N/A

4480  Special Education Classroom 2 W2 Sheetrock White Flaking 5 SF -0.1 Negative N/A N/A N/A N/A N/A N/A

4480  Special Education Classroom 2 W3 Sheetrock White Flaking 10 SF -0.4 Negative N/A N/A N/A N/A N/A N/A

4480  Special Education Classroom 2 W3 N/A N/A N/A N/A N/A N/A N/A Radiator Metal Tan Chipping 5 SF

4480  Special Education Classroom 2 W4 Sheetrock White Flaking 2 SF -0.2 Negative N/A N/A N/A N/A N/A N/A

4480  Landdowne Avenue Entrance Vestibule W1 N/A N/A N/A  {10 SF 0.1 Negative N/A N/A N/A N/A N/A N/A

4480  Landdowne Avenue Entrance Vestibule W3 Sheetrock White Flaking 5 SF -0.2 Negative N/A N/A N/A N/A N/A N/A

4480  Landdowne Avenue Entrance Vestibule W2 Sheetrock White Flaking 5 SF -0.2 Negative N/A N/A N/A N/A N/A N/A

4480  Landdowne Avenue Entrance Vestibule W1 Sheetrock White Flaking 5 SF -0.1 Negative N/A N/A N/A N/A N/A N/A

4480  Closet inside the Lansdowne Avenue Entrance No Damage N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

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**Methodology:**

1. **Material:** The primary material types include plaster, concrete, and sheetrock.
2. **Component Damage:** Indicates the type of damage, such as flaking, cracking, and chipping.
3. **Component:** Describes the specific area, e.g., boiler rooms, stairwells, restrooms.
4. **Primary Damage:** Lists the primary type of damage present.
5. **Component Damage (mg/cm²):** Specifies the severity level of the damage.
6. **Component terms:** Provides additional details about the damage, such as floor, door, or radiator.

**Inspection Company:** Batta Environmental

**Lead Safe Certification for Overbrook Education Center**
<table>
<thead>
<tr>
<th>Element 1 - Main Building</th>
<th>Wall Type</th>
<th>Color</th>
<th>Condition</th>
<th>Size</th>
<th>Flooring</th>
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<td>Plaster</td>
<td>Yellow</td>
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<td>Hallway adjacent to Basement Restrooms</td>
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<td>Blue</td>
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<td>Hallway to Cafeteria</td>
<td>Plaster</td>
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<td>Chipping</td>
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<td>Music Room</td>
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<td>Plaster</td>
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<td>Lobby adjacent to Gymnasium</td>
<td>Plaster</td>
<td>Multi</td>
<td>Chipping</td>
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<td>Room Description</td>
<td>Wall Position</td>
<td>Material</td>
<td>Color</td>
<td>Condition</td>
<td>Notes</td>
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<tr>
<td>Lobby adjacent to Gymnasium</td>
<td>W4</td>
<td>Plaster</td>
<td>Multi</td>
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<td>Custodial Closet in Lobby</td>
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<td>W1</td>
<td>Door</td>
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<td>Chipping</td>
</tr>
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<td>Custodial Closet in Lobby</td>
<td>W2</td>
<td>Door</td>
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<td>Chipping</td>
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<td>Custodial Closet in Lobby</td>
<td>W3</td>
<td>Door</td>
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<td>Green</td>
<td>Chipping</td>
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<td>W4</td>
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<td>Metal</td>
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<tr>
<td>Hallway behind Stage Area</td>
<td>W1</td>
<td>Plaster</td>
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<td>Chipping</td>
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<tr>
<td>Hallway behind Stage Area</td>
<td>W2</td>
<td>Plaster</td>
<td>Yellow</td>
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<td>Hallway behind Stage Area</td>
<td>W3</td>
<td>Plaster</td>
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<td>Chipping</td>
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<td>Hallway behind Stage Area</td>
<td>W4</td>
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<tr>
<td>Hallway from Nurse to Main Office</td>
<td>W1</td>
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<td>Chipping</td>
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<td>Hallway from Nurse to Main Office</td>
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<td>Hallway from Nurse to Main Office</td>
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<td>Nurses Office</td>
<td>W3</td>
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<td>W1</td>
<td>Plaster</td>
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<td>Chipping</td>
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<td>Plaster</td>
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<td>Chipping</td>
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<tr>
<td>Main Office Work Room</td>
<td>W3</td>
<td>Plaster</td>
<td>White</td>
<td>Chipping</td>
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<tr>
<td>Main Office Work Room</td>
<td>W1</td>
<td>Plaster</td>
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<td>Chipping</td>
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<tr>
<td>Main Office Work Room</td>
<td>W2</td>
<td>Plaster</td>
<td>White</td>
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<td>5</td>
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<tr>
<td>Faculty Lounge - Room 201</td>
<td>W4</td>
<td>Plaster</td>
<td>Tan</td>
<td>Chipping</td>
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<td>Faculty Lounge - Room 201</td>
<td>W1</td>
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<td>Chipping</td>
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<td>Faculty Lounge - Room 201</td>
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<td>Storage at Room 201</td>
<td>W2</td>
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<td>Storage at Room 201</td>
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<td>Hallway at Room 201</td>
<td>W1</td>
<td>Plaster</td>
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<td>Hallway at Room 201</td>
<td>W2</td>
<td>Plaster</td>
<td>Tan</td>
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<tr>
<td>Hallway from 206 to 210</td>
<td>W1</td>
<td>Plaster</td>
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<td>Hallway from 206 to 210</td>
<td>W2</td>
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<td>Hallway from 206 to 210</td>
<td>W3</td>
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<td>Chipping</td>
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<td>Hallway from 206 to 210</td>
<td>W4</td>
<td>Plaster</td>
<td>Tan</td>
<td>Chipping</td>
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<td>Hallway from 206 to 210</td>
<td>W1</td>
<td>Door</td>
<td>Metal</td>
<td>Blue</td>
<td>Chipping</td>
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<tr>
<td>Hallway from 206 to 210</td>
<td>W2</td>
<td>Door</td>
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<td>Blue</td>
<td>Chipping</td>
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<td>Hallway from 206 to 210</td>
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<td>Door</td>
<td>Metal</td>
<td>Blue</td>
<td>Chipping</td>
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<td>Hallway from 206 to 210</td>
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<td>Utility Room</td>
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<td>Room/Location</td>
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<td>W2</td>
<td>W3</td>
<td>W4</td>
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<td>Plaster Tan</td>
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<td>Room 206</td>
<td>Plaster Tan</td>
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<tr>
<td>Stairwell adjacent to 301 (5A)</td>
<td>Plaster Yellow Chipping</td>
<td>5</td>
<td>12.9</td>
<td>Door Frame</td>
<td>Metal</td>
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<td>Room 301</td>
<td>Plaster Yellow Chipping</td>
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<tr>
<td>Room 304</td>
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<td>Room 305</td>
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<td>Room 307</td>
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<td>Door Frame</td>
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<tr>
<td>Hallway from 304 to 308</td>
<td>Plaster Yellow Chipping</td>
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<td>-0.1</td>
<td>Columns Plaster Purple Chipping</td>
<td>Incl. w/ Walls</td>
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<td>Room 308</td>
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<td>Room 309</td>
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<td>Computer Lab</td>
<td>Plaster White Chipping</td>
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<td>Door Frame</td>
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<tr>
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<td>Door Frame</td>
<td>Metal</td>
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<td>Main Lobby</td>
<td>Plaster Green Chipping</td>
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<td>Door Frame</td>
<td>Metal</td>
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<td>Main Lobby</td>
<td>Plaster Green Chipping</td>
<td>5</td>
<td>0</td>
<td>Door Frame</td>
<td>Metal</td>
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<tr>
<td>Main Lobby</td>
<td>Plaster Green Chipping</td>
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<td>0</td>
<td>Door Frame</td>
<td>Metal</td>
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<td>Gym Office</td>
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<td>Door Frame</td>
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<td>Stage/ Gym Storage</td>
<td>Plaster Tan Chipping</td>
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<td>Door Frame</td>
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<tr>
<td>Storage adjacent to stage entrance</td>
<td>Plaster Yellow Chipping</td>
<td>5</td>
<td>0</td>
<td>Door Frame</td>
<td>Metal</td>
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<tr>
<td>Storage adjacent to stage entrance</td>
<td>Plaster Yellow Chipping</td>
<td>15</td>
<td>0.3</td>
<td>Door Frame</td>
<td>Metal</td>
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<td>Main Lobby</td>
<td>Plaster Green Chipping</td>
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<td>Door Frame</td>
<td>Metal</td>
</tr>
<tr>
<td>Storage adjacent to stage entrance</td>
<td>Plaster Yellow Chipping</td>
<td>5</td>
<td>0</td>
<td>Door Frame</td>
<td>Metal</td>
</tr>
<tr>
<td>Stairwell adjacent to 301 (5A)</td>
<td>Plaster Yellow Chipping</td>
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<td>12.9</td>
<td>Door Frame</td>
<td>Metal</td>
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<tr>
<td>Hallway from 304 to 308</td>
<td>Plaster Yellow Chipping</td>
<td>30</td>
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<td>Door Frame</td>
<td>Metal</td>
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<tr>
<td>Storage adjacent to stage entrance</td>
<td>Plaster Yellow Chipping</td>
<td>5</td>
<td>0</td>
<td>Door Frame</td>
<td>Metal</td>
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<tr>
<td>Stairwell adjacent to 301 (5A)</td>
<td>Plaster Yellow Chipping</td>
<td>5</td>
<td>12.9</td>
<td>Door Frame</td>
<td>Metal</td>
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<td>Main Lobby</td>
<td>Plaster Green Chipping</td>
<td>5</td>
<td>0</td>
<td>Door Frame</td>
<td>Metal</td>
</tr>
<tr>
<td>Main Lobby</td>
<td>Plaster Green Chipping</td>
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<td>0</td>
<td>Door Frame</td>
<td>Metal</td>
</tr>
<tr>
<td>Main Lobby</td>
<td>Plaster Green Chipping</td>
<td>5</td>
<td>0</td>
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