



ADDENDUM NO.: 01
PROJECT NAME: Lincoln Park High School Renovation Project
PROJECT NO.: 05085
CONTRACT NO.: C1582
DATE OF ISSUE: April 27, 2017

NOTICE OF CHANGES, MODIFICATIONS, OR CLARIFICATIONS TO CONTRACT DOCUMENTS

The following changes, modifications, or clarifications are hereby incorporated and made an integral part of the Contract Documents. Unless clearly expressed otherwise by this Addendum, all terms and conditions defined in the original Contract Documents shall continue in full force and effect and shall have the same meaning in this Addendum.

ITEM NO. 1: CHANGE TO KEY DATES
None.

ITEM NO. 2: REVISIONS TO BOOK 1 – PBC INSTRUCTIONS TO BIDDERS

Change 1. In Section III.K.3. Community Hiring Requirement, REMOVE 'At least 5%' and REPLACE WITH 'At least 7.5%' (Page 9 of 107)

Change 2. In Section III.Q. Basis of Award, REMOVE paragraph in its entirety and REPLACE WITH 'Award will be made to the Bidder submitting the lowest Award Criteria Figure whose corresponding Total Base Bid is within the Available Funds for this Project and is otherwise responsive to all the requirements of the Contract Documents. Firms are required to submit pricing for Base Work plus Alternate #1, Base Work plus Alternate #2, and Base Work plus Alternate #3 to be considered responsive. The firm submitting the lowest, responsive bid, within the Available Funds will be deemed the low bidder. The Commission will notify the low bidder of their status for attendance at the Pre-Award Meeting on the date and time as described in §II.A.18 of this Book. "Available Funds" is described as the total Project budget less the budgeted planning, design, management, and supervision costs.

ITEM NO. 2: CLARIFICATIONS TO BOOK 1 – PBC INSTRUCTIONS TO BIDDERS

Clarification 1. Award Criteria Figure Formulas are required to support each Bid Form, if making EEO commitments.

ITEM NO. 3: REVISIONS TO BOOK 2 – PBC STANDARD TERMS AND CONDITIONS

None.

ITEM NO. 4: REVISIONS TO BOOK 3 – TECHNICAL SPECIFICATIONS

Change 1. Book 3 – Volume 1 – Section 01 50 10 – COMMISSION REPRESENTATIVE FIELD OFFICE.

Change 2. Book 3 – Volume 1 – Section 10 14 03 – INTERIOR SIGNAGE: DELETE lines 1.1 A.1, 1.1 A.2, 1.1 A.3, 1.1 A.4, 1.1 A.5 & 1.1 A.6. Line 1.1 A.7 remains.

Change 3. Book 3 – Volume 3 – Appendix A. Environmental Project Manual

New Appendix A Environmental Project Manual Scope Sheets:

- a. Page 17: Main Building 1st Floor Room “110”
- b. Page 18: Main Building 1st Floor Stairwell “111S”
- c. Page 19: Main Building 1st Floor Stairwell “113S”
- d. Page 22: Main Building 1st Floor Room “130A”
- e. Page 23: Main Building 1st Floor Room “132B”
- f. Page 27: Main Building 2nd Floor Stairwell “232S1”

Scope Sheets Replacing Previous Appendix A Environmental Project Manual Scope Sheets:

- a. Pages 1-2 will replace Page 21 in original scope sheets (Main Building Basement Room “034A”)
- b. Pages 3-4 will replace Page 22 in original scope sheets (Main Building Basement Room “034B”)
- c. Pages 5-6 will replace Page 25 in original scope sheets (Main Building Basement Room “041A”)
- d. Pages 7-8 will replace Page 26 in original scope sheets (Main Building Basement Room “041B”)
- e. Pages 9-10 will replace Page 29-30 in original scope sheets (Main Building Basement Corridor “B-0”)
- f. Page 11 will replace Page 31 in original scope sheets (Main Building Basement Corridor “F-0”)
- g. Pages 12-13 will replace Page 32-33 in original scope sheets (Main Building Basement Air Tunnel “00A”)
- h. Pages 14-15 will replace Page 34-35 in original scope sheets (Main Building Basement Air Tunnel “00C”)
- i. Page 16 will replace Page 57 in original scope sheets (Main Building 1st Floor Room “108, 108A, 108B, 108C, 108D”)
- j. Pages 20-21 will replace Pages 88-89 in original scope sheets (Main Building 1st Floor Room “122”)
- k. Page 24 will replace Page 138 in original scope sheets (Main Building 2nd Flr “221”)
- l. Page 25 will replace Page 151 in original scope sheets (Main Building 2nd Flr “231”)
- m. Page 26 will replace Page 152 in original scope sheets (Main Building 2nd Flr “232”)
- n. Pages 28-29 will replace Page 226 in original scope sheets (Annex Building 1st Floor Stairwell “164S”)
- o. Pages 30-31 will replace Page 254 in original scope sheets (Annex Building 1st Floor Corridors “1E, 1EN, 1ES, 1N, 1S, 1W, 1WN, 1WS”)
- p. Pages 32-33 will replace Page 255 in original scope sheets (Annex Building 1st Floor Vestibule to Rooms 156, 158)

(Note: Not all additional scope sheets include environmental issues.)

ITEM NO. 5: REVISIONS TO DRAWINGS

- Change No. 1** On Sheet A2.02: **ADD:** New storage cabinets; countertops; electrical power & data; door #219-1 in Computer Classroom 221, as per attached drawings: ADD 1 A01, ADD 1 A02, ADD 1 E01, ADD 1 ED01.
- Change No. 2** On Sheet A3.07, **DELETE:** Detail 4/A3.07. **ADD:** Attached revised detail drawing ADD 1 A03.
- Change No. 3** Sheet A1.05, Serving 165B, **ADD:** new in-line exhaust fan above Serving Area 165B ceiling with exhaust duct, through wall louver, new wall opening and lintel; ACT soffit and soffit fascia as per attached drawings: ADD 1 A04, MA2.02, MA5.00, MA5.01, E2.04.
- Change No. 4** Sheets A1.01, A5.01 Corridor B-0 **ADD:** the following note: “Grind and strip paint from the existing concrete floor. Patch and infill all floor depressions. Grind and level all high spots. Abrade existing floor surface so as to obtain proper adhesion with leveling underlayment.”
- Change No. 5** Sheet A2.00 Detail 1/A2.00 WEIGHT RM 013. **ADD:** Keynote 3.01.
- Change No. 6** Sheet MA2.02 **REVISE:** Location of Exhaust Fan E-25.
- Change No. 7** Sheet MA5.00 **REVISE:** Select exhaust fans to direct drive configuration.
- Change No. 8** Sheet MA5.01 **REVISE:** Louver Schedule for Exhaust Fan E-25.

- Change No. 9 Sheet M0.01
a. ADD: Keynotes for patching of air tunnel walls.
b. REVISE: Temperature Control Compressor keynote.
- Change No. 10 Sheet M1.00 DELETE: Void keynotes at Temperature Control Compressor.
- Change No. 11 Sheet M1.01 ADD: Locations for patching of air tunnel walls.
- Change No. 12 Sheet M2.03 REVISE: Control damper tag at AHU-1.
- Change No. 13 Sheet M6.00
a. REVISE: select exhaust fans to direct drive configuration.
b. ADD: Configuration for automatic dampers.
c. ADD: Information for Temperature Control Compressor.
- Change No. 14 Sheet M6.01 ADD: Manufacturer, Model and flow information to Heating Coil Schedule.
- Change No. 15 Sheet M6.02 ADD: Compressed Air Piping Diagram and Piping Diagram for Unit Ventilator.
- Change No. 16 Sheet M8.00 NEW: Drawing with photo documentation of existing conditions.
- Change No. 17 Sheet M8.01 NEW: Drawing with photo documentation of existing conditions.
- Change No. 18 Sheet E1.01 ADD: Lighting for Annex Building - First Floor
- Change No. 19 Sheet E2.03 ADD: Locations of existing panel RP-252 and panel RP-253.
- Change No. 20 Sheet E2.04 ADD: Lighting for Annex Building - First Floor.
- Change No. 21 Sheet E2.04 REVISE: Exhaust Fan E-25 location.
- Change No. 22 Sheet P0.02 ADD: Removal and replacement of vertical storm water pipe located in Basement.
- Change No. 23 Sheet P0.03 ADD: Removal and replacement of fire protection piping and sprinklers in Distance Learning 219.
- Change No. 24 Sheet P1.02 ADD: Removal and replacement of vertical storm water pipe located in Basement.
- Change No. 25 Sheet P1.03 ADD: Removal and replacement of vertical storm water pipe located in Basement.

ITEM NO. 6: REQUESTS FOR INFORMATION

RFI-1.

Question: If we choose not to provide cost for Alternates #1, 2, 3, and 4 but we are low bid for Base Bid and PBC/Owner chooses to go with Alternate #1. Will the Project be awarded to us, or will it go automatically to the Low Bidder that had Base + Alt #1.

Response: [PBC has revised its Basis of Award. Please refer to Item No. 2. Change No. 2 of this Addendum.](#)

RFI-2.

Question: Regarding Room 108, is there more than (1) layer of tile? Room is not shown hatched on ACM-2.

Response: [Yes. There is more than 1 layer of Vinyl Floor Tile \(VFT\) in Room 108. Although Room 108 was not hatched in the ACM-2 drawing, the scope of work to remove all layers of ACM is identified on the revised Environmental Scope Sheet #16 included in this Addendum.](#)

RFI-3.

Question: Regarding Room 101 - How deep do we remove flooring?

Response: [Flooring to be removed to substrate.](#)

RFI-4.

Question: What is the extent of the floor tile removal in Corridor C2?

Response: [Corridor C2 floor tile to be removed down to substrate, in accordance with Architectural Drawing A1.03A.](#)

RFI-5.

Question: Regarding Basement in Main Building - Will pipe to be abated be marked?

Response: [The Environmental Consultant has identified the ACM pipe insulation in the Basement of the Main Building. Please refer to Environmental Scope Sheets #9 and #11.](#)

- RFI-6.**
Comment: Please confirm it is acceptable to provide a new 8' marker board along with the Epson - Brightlink 585WI Interactive WXGA 3LCD wherever Key Note 10.04 is shown. If not, please provide detailed specifications on the new interactive white board (Make and Model #) to be provided with projector.
Response: Confirmed.
- RFI-7.**
Statement: Please clarify both the interior and exterior signage Scope of Work.
Response: Furnish and install exterior and interior signage in accordance with SECTION 10 14 03 (as revised in this Addendum, Item No. 4 Revisions to Book 3 – Technical Specifications Change 1.) and SECTION 10 14 07 of the original Issue for Bid drawings. New signs are to be installed where noted by Keynote 10.01.
- RFI-8.**
Question: Would you be able to send over Planholders list or direct me to where I can find them?
Response: Planholder lists can typically be found on the designated printer's online planrooms for the project. Additionally, only Bidders who were in attendance at the Mandatory Tech Review meeting and who signed in are deemed eligible to bid. The attendance sign-in sheets reflecting who those firms were is available on the Project Page at www.pbcchicago.com, in the 'What's New' section. Lincoln Park's designated printer is Cross Rhodes Print and Technologies and their online planroom link is: <https://www.x-rhodesplanroom.com/public.php>
- RFI-9.**
Question: Regarding the Lincoln Park HS Reno bid forms, does each alternate bid require its own award criteria formula sheet?
Response: Yes. Please refer to ITEM NO. 2: CLARIFICATIONS TO BOOK 1 – PBC INSTRUCTIONS TO BIDDERS of this Addendum.
- RFI-10.**
Question: Just to verify, what information is needed on the respondent's line at the bottom of each page?
Response: Respondents must enter the Respondent's Firm Name on the line at the lower, left-hand side of the document. Firms may utilize a company stamp in lieu of type-written or hand-written entry.
- RFI-11.**
Question: Room 108 is not marked on drawings.
Response: Please refer to Architectural Drawing A1.02.
- RFI-12.**
Question: Regarding Kitchen Room (133B), what work is to be performed in that room and what work is to be done on the incinerator?
Response: Contractor is to remove clay tile and flue. Please refer to Keynote 2.18 and 3.02 for Clay Tile Removal and Keynote 2.15 and 7.14B for Flue Removal.
- RFI-13.**
Question: Regarding Weight Room on 2nd floor, will school remove equipment?
Response: No. Contractor responsible to remove, relocate, and reassemble to new weight room located in the Basement of the Main Building. The school will not remove existing equipment.
- RFI-14.**
Question: Regarding Room 217, what finishes are required for the walls?
Response: Please refer to Architectural Drawing A2.02.
- RFI-15.**
Question: Regarding Room 217, what type of flooring to be installed?
Response: Please refer to Architectural Drawing A2.02.

- RFI-16.
Question: Regarding discrepancies in the Scope of Work, what supersedes - drawings or specifications?
Response: EC Scope Sheets supersede EC Drawings and Architectural Drawings supersede EC Scope Sheets.
- RFI-17.
Question: Regarding Room 221 - Computer Lab - Who is handling the removal of the table and chairs?
Response: Contractor responsible to remove, store, relocate, and reinstall furniture. Contractor to coordinate with PBC when work is to commence in the room.
- RFI-18.
Question: Will IT equipment, including printers, computers, plotters, etc. be locked and maintained by CPS?
Response: CPS will handle the IT equipment. Contractor to coordinate with CPS to facilitate all Work activities.
- RFI-19.
Question: (Regarding) Rooms 217B and 217C, what are to be done with them?
Response: Please refer to Architectural Drawing A2.02 for extent of scope.
- RFI-20.
Question: What is the extent of the Lighting Scope? What products will be fixed or remain for lighting renovation?
Response: Please refer to Electrical Drawings for extent of lighting Scope of Work.
- RFI-21.
Question: Regarding protection of murals, what differentiates one wall from receiving new finishes? Do the drawings call out what murals need to be protected?
Response: Please refer to Floor Plans in A Series Drawings for Wall Finishes and Protection of Existing Murals.
- RFI-22.
Question: Regarding the painting scope of work (in basement of the Main Building), does the ceiling get painted?
Response: Yes, the ceiling in the basement shall be painted with the exception of the red, Life Safety items which must remain red. Please refer to Keynote 9.03A.
- RFI-23.
Question: Regarding basement scope of work, what ceiling piping is removed?
Response: Please refer to Plumbing Drawings P0.01.
- RFI-24.
Question: Regarding new weight room in basement, who will remove debris?
Response: Contractor responsible for the proper handling and disposing of all existing debris in room.
- RFI-25.
Question: Regarding new weight room (in basement of the Main Building), what is the extent of the excavation work?
Response: Please refer to Architectural Drawing A2.00 for extent of excavation Scope of Work.
- RFI-26.
Question: Is there a Summer School Program this summer?
Response: Please refer to Project Phasing Plan G2.00 for extent of Summer Programming. Contractor to account for all project constraints in its Project Schedule.
- RFI-27.
Question: Is a dumpster allowed on site? And is there a specific location where we need to place it?
Response: Please refer to Phasing Plan. Contractor to coordinate all temporary facilities in accordance with Project Phasing Plan G2.00. Location to be determined by the Contractor, with approval by the PBC.

RFI-28.

Question: Will PBC require a trailer?

Response: PBC will not require a Contractor-provided trailer on the site; However, Contractor is to refer to SECTION 01 50 10 for Commission Representative Field Office Requirements.

RFI-29.

Question: Regarding electrical panels to be replaced, may we obtain pictures of or a list of manufacturers for existing panels to be replaced?

Response: There are many different manufacturers of panelboards throughout the Main Building and Annex including but not limited to Square D, Cregier, ITE,, General Electric, and Eaton. For any new panelboards, please refer to Section 26 24 16, Paragraph 2.1 for approved manufacturers.

ITEM NO. 7: REQUESTS FOR SUBSTITUTIONS

RFS-1.

Request: We would like the opportunity to bid Florock Resinous Flooring as an equal to the products specified for the above named project (see Subject). SECTION 09 97 23-CONCRETE FLOOR COATINGS - Please advise where and to whom I can send a submittal packet for approval.

Response: PBC does not process Requests for Substitutions during the Bidding Period. Contractors are to submit Requests for Substitutions per Book 2. Standard Terms and Conditions for Construction Contracts, Section 13.06 Substitution of Products and Materials.

List of Attachments and Drawings:

(Available at Cross Rhodes Online Planroom: <http://www.x-rhodesplanroom.com/>)

This Addendum includes the following attached Documents:

1. Section 01 50 10 – COMMISSION REPRESENTATIVE FIELD OFFICE
2. Appendix A Environmental Project Manual

This Addendum includes the following attached Architectural Drawings:

1. ADD 1 – A01.
2. ADD 1 – A02.
3. ADD 1 – A03.
4. ADD 1 – A04.

This Addendum includes the following attached Mechanical Sheets:

1. M0.01 PROJECT DEMOLITION AND NEW WORK KEY NOTES
2. M1.00 BASEMENT MECHANICAL DEMO PLAN – AREA A
3. M1.01 BASEMENT MECHANICAL DEMO PLAN – AREA B
4. MA2.02 ANNEX 1ST FLOOR MECHANICAL NEW WORK PLAN – AREA A
5. M2.03 ENLARGED AHU-1 PLANS AND SECTIONS
6. MA5.00 MECHANICAL SCHEDULES AND DETAILS
7. MA5.01 MECHANICAL SCHEDULES AND DETAILS
8. M6.00 MECHANICAL SCHEDULES
9. M6.01 MECHANICAL SCHEDULES AND DETAILS
10. M6.02 MECHANICAL SCHEDULES AND DETAILS
11. M8.00 MECHANICAL PHOTOS
12. M8.01 MECHANICAL PHOTOS

This Addendum includes the following attached Electrical Sheets:

1. ADD 1 – E01
2. ADD 1 – ED01
3. E1.01 OVERALL PLANS – MAIN AND ANNEX BUILDINGS
4. E2.03 SECOND FLOOR ENLARGED PLANS – ANNEX BUILDING
5. E2.04 BASMENT ENLARGED PLANS – ANNEX BUILDING

This Addendum includes the following attached Plumbing Sheets:

1. P0.02 MAIN AND ANNEX BUILDING PLUMBING BASEMENT PLANS - PARTIAL
2. P0.03 PARTIAL 1ST AND 2ND FLOOR PLUMBING/FIRE PROTECTION PLANS – DEMO & NEW
3. P1.02 PARTIAL ROOF PLAN - AREA B
4. P1.03 PARTIAL ROOF PLAN – AREA C

END OF ADDENDUM NO. 01

SECTION 01 50 10

COMMISSION REPRESENTATIVE FIELD OFFICE

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings
- B. Book 1: Project Information, Instructions to Bidders, and Execution Documents
- C. Book 2: Standard Terms and Conditions for Construction Contracts
- D. Book 3: Technical Specifications (Volume 1 through 3)

1.2 COMMISSION REPRESENTATIVE'S FIELD OFFICE

- A. Commission Representative's Field office will be located in the existing building. Contractor to maintain and clean the office.
- B. Provide appropriate signage on the outside of the Commission Representative Field Office.
- C. Provide weekly janitorial service for the Commission Representative's Field Office.
- D. Pay all expenses in connection with the Commission Representative's Field Office, including but not limited to, the installation and use of telephone / data service, pest control, janitorial services, equipment, set up and take down. Contractor will provide all paper, toner, etc. for printers. HVAC filters shall be replaced every month.
- E. Furnish the following equipment and furniture.
 - 1. (2) - 60" x 30" desks with two 2 drawer (one file and one miscellaneous) pedestal file cabinets and 2 non folding chairs with upholstered seat and back.
 - 2. (2) - 2 drawer lateral file cabinets.
 - 3. (1) - layout table with minimum top size of 36" x 48". An adjustable height drafting stool with upholstered seat and back shall be provided.
 - 4. (2) - 8' x 3' conference tables and 20 folding chairs.
 - 5. (1) - equipment cabinet with lock of minimum inside dimensions of 44" high x 24" wide x 30" deep. The walls shall be of steel with a 3/32" minimum thickness with concealed hinges and enclosed lock constructed to prevent entry by force.
 - 6. (1) 1200 watt Microwave oven
 - 7. (2) - wall mounted mail holders

8. (1) - first aid cabinet fully equipped and maintained on monthly basis.
 9. (1) - 5 gallon hot and cold water dispenser with cup dispenser, cups and bottled drinking water supply service.
 10. (1) – Portable heating and air conditioner.
 11. (1) - 6 cubic feet refrigerator with freezer compartment.
 12. (1) - plan rack with (12) 42” capacity hanging clamps.
 13. (1) - fire extinguisher.
 14. (1) - digital camera (minimum 6.0 mega-pixel capability) with software and cables. Include rechargeable batteries and battery charger compatible with the type used in camera.
 15. Printer: Provide a multifunction color printer (fax, copy, scan and print) the latest version with toner cartridges, paper, and a maintenance service contract for the duration of project.
 - a. Canon Color Laser Multifunction Image CLASS C5000-Series or equal (Dual Tray - 8-1/2” x 11” and 11” x 17” format) with scanning capability (PDF format)
 - b. Provide required toner cartridge throughout duration of the project.
 - c. Provide (24lb) 8 ½” x 11” and 11” x 17” format paper throughout the duration of the project.
 16. Network: Provide Local Area Network (LAN) and a Wireless Area Network (WAN) communication and Internet access for Commission Representative Computers with all associated equipment, drops, patch cords, power cords, etc., for the duration of the project through final acceptance. Network the printer/scanner to all Commission Representatives computers to enable direct printing and scanning to and from any computer.
 17. Internet Access: Provide an unlimited Internet access account to achieve a minimum of 50MB per second download speed.
- F. The Commission Representative’s field office and all furnishing and equipment will remain the property of the Contractor at the completion of the Project.

1.3 SUBMITTALS – SECTION INTENTIONALLY LEFT BLANK

PART 2 PRODUCTS

- 2.1 Provide new materials and equipment. Undamaged, previously used materials and equipment in serviceable condition may be used if approved by Architect. Provide materials suitable for use intended.

PART 3 EXECUTION

- 3.2 The proposed location of the Commission Representatives field office and the pedestrian gate for access to the fenced site is indicated on the drawings.
- 3.3 Locate field office for easy and safe access.
- 3.4 Maintain support facilities until near substantial completion or as directed by Architect and Commission Representative.
- 3.5 Construct and maintain safe temporary walkways to office trailers and sanitary facilities.

END OF SECTION

Room ID/Name: Main Building Room 034A (Fan #2)

ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	Pipe and Mudded Joint Packing on Elbows, Fittings and/or Valves (MJP on E/V/F). Except fiberglass.							<p>Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.</p> <p>Note: Patch and Repair damaged ACM pipe / duct insulation that remains, if any.</p> <p>Damage includes any rips, tears, separations, open ends, gauges or other damage that renders material(s) in a condition that does not completely contain asbestos fibers.</p>	<p>Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p> <p>Note: ACM Removal shall be conducted by a licensed Abatement Contractor under full containment method.</p>

LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Metal	Plenum / Housing							<p>Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement</p> <p>LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.</p>	<p>Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p>

Room ID/Name: Main Building Room 034A (Fan #2) (Continued...)

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster / Brick	Walls							Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Main Building Room 034B (Fan #2)

ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	Pipe and Mudded Joint Packing on Elbows, Fittings and/or Valves (MJP on E/V/F). Except fiberglass.							<p>Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.</p> <p>Note: Patch and Repair damaged ACM pipe / duct insulation that remains, if any.</p> <p>Damage includes any rips, tears, separations, open ends, gauges or other damage that renders material(s) in a condition that does not completely contain asbestos fibers.</p>	<p>Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p> <p>Note: ACM Removal shall be conducted by a licensed Abatement Contractor under full containment method.</p>

LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Metal	Plenum / Housing							<p>Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement</p> <p>LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.</p>	<p>Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p>

Room ID/Name: Main Building Room 034B (Fan #2) (Continued...)

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster / Brick	Walls							Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Main Building Room 041A (Fan #1)

ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	Pipe and Mudded Joint Packing on Elbows, Fittings and/or Valves (MJP on E/V/F). Except fiberglass.							<p>Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.</p> <p>Note: Patch and Repair damaged ACM pipe / duct insulation that remains, if any.</p> <p>Damage includes any rips, tears, separations, open ends, gauges or other damage that renders material(s) in a condition that does not completely contain asbestos fibers.</p>	<p>Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p> <p>Note: ACM Removal shall be conducted by a licensed Abatement Contractor under full containment method.</p>

LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Metal	Plenum / Housing							<p>Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement</p> <p>LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.</p>	<p>Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p>

Room ID/Name: Main Building Room 041A (Fan #1) (Continued...)

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster / Brick	Walls							Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Main Building Room 041B (Fan #1)

ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	Pipe and Mudded Joint Packing on Elbows, Fittings and/or Valves (MJP on E/V/F). Except fiberglass.							<p>Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.</p> <p>Note: Patch and Repair damaged ACM pipe / duct insulation that remains, if any.</p> <p>Damage includes any rips, tears, separations, open ends, gauges or other damage that renders material(s) in a condition that does not completely contain asbestos fibers.</p>	<p>Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p> <p>Note: ACM Removal shall be conducted by a licensed Abatement Contractor under full containment method.</p>

LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Metal	Plenum / Housing							<p>Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement</p> <p>LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.</p>	<p>Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p>

Room ID/Name: Main Building Room 041B (Fan #1) (Continued...)

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster / Brick	Walls							Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Main Building Corridor B-0

ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	Pipe and Duct Insulation & Mudded Joint Packing on Elbows, Fittings and/or Valves (MJP on E/V/F). Except fiberglass.							<p>Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.</p> <p>Note: Patch and Repair damaged ACM pipe / duct insulation that remains, if any.</p> <p>Damage includes any rips, tears, separations, open ends, gauges or other damage that renders material(s) in a condition that does not completely contain asbestos fibers.</p>	<p>Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p> <p>Note 1: ACM Removal shall be conducted by a licensed Asbestos Abatement Contractor under full containment method.</p> <p>Note 2: Scraping and Painting of LBP paint on ACM pipes shall be conducted by a licensed Asbestos & Lead Abatement Contractor under full containment method</p>

LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Brick	Walls & Ceiling		X	X	X	X		<p>Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement</p> <p>LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.</p>	<p>Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p>

Room ID/Name: Main Building Corridor B-0 (Continued...)

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X						Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Main Building Corridor F-0

ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	Pipe and Duct Insulation & Mudded Joint Packing on Elbows, Fittings and/or Valves (MJP on E/V/F). Except fiberglass.						X	<p>Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.</p> <p>Note: Patch and Repair damaged ACM pipe / duct insulation that remains, if any.</p> <p>Damage includes any rips, tears, separations, open ends, gauges or other damage that renders material(s) in a condition that does not completely contain asbestos fibers.</p>	<p>Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p> <p>Note 1: ACM Removal shall be conducted by a licensed Asbestos Abatement Contractor under full containment method.</p> <p>Note 2: Scraping and Painting of LBP paint on ACM pipes shall be conducted by a licensed Asbestos & Lead Abatement Contractor under full containment method</p>

LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Walls & Ceiling	X	X	X	X	X		<p>Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement</p> <p>LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.</p>	<p>Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p>

Room ID/Name: Main Building Air Tunnel 00A

ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	Pipe and Duct Insulation & Mudded Joint Packing on Elbows, Fittings and/or Valves (MJP on E/V/F). Except fiberglass.							<p>Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.</p> <p>Note: Patch and Repair damaged ACM pipe / duct insulation that remains, if any.</p> <p>Damage includes any rips, tears, separations, open ends, gauges or other damage that renders material(s) in a condition that does not completely contain asbestos fibers.</p>	<p>Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p> <p>Note 1: ACM Removal shall be conducted by a licensed Asbestos Abatement Contractor under full containment method.</p> <p>Note 2: Scraping and Painting of LBP paint on ACM pipes shall be conducted by a licensed Asbestos & Lead Abatement Contractor under full containment method</p>

LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Wood	Door Systems							<p>Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement</p> <p>LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.</p>	<p>Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p>
Metal	Reheat Boxes								

Room ID/Name: Main Building Air Tunnel 00A (Continued...)

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Concrete	Walls	X	X	X	X			Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Main Building Air Tunnel 00C

ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	Pipe and Duct Insulation & Mudded Joint Packing on Elbows, Fittings and/or Valves (MJP on E/V/F). Except fiberglass.							<p>Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.</p> <p>Note: Patch and Repair damaged ACM pipe / duct insulation that remains, if any.</p> <p>Damage includes any rips, tears, separations, open ends, gauges or other damage that renders material(s) in a condition that does not completely contain asbestos fibers.</p>	<p>Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p> <p>Note 1: ACM Removal shall be conducted by a licensed Asbestos Abatement Contractor under full containment method.</p> <p>Note 2: Scraping and Painting of LBP paint on ACM pipes shall be conducted by a licensed Asbestos & Lead Abatement Contractor under full containment method</p>

LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Wood	Door Systems							<p>Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement</p> <p>LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.</p>	<p>Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).</p>
Metal	Reheat Boxes								

Room ID/Name: Main Building Air Tunnel 00C (Continued...)

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Concrete	Walls	X	X	X	X			Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Main Building Room 108, 108A, 108B, 108C, and 108D

ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	All Layers of Vinyl Floor Tile, Mastic, Plywood, Felt Paper and/or any other Layers of ACM or non-ACM material between floor tiles and substrate.						X	Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM Removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.	Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s). Note: ACM Removal shall be conducted by a licensed Abatement Contractor under full containment method.

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
CMU	Walls & Ceiling	X	X	X	X	X		Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).
Wood / Metal	Door System								

Room ID/Name: Main Building Room 110

ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	All Layers of Vinyl Floor Tile, Mastic, Plywood, Felt Paper and/or any other Layers of ACM or non-ACM material between floor tiles and substrate.						X	Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM Removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.	Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s). Note: ACM Removal shall be conducted by a licensed Abatement Contractor under full containment method.

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Walls & Ceiling	X	X	X	X	X		Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).
Wood	Window Sill & Window Casing								

Room ID/Name: Main Building Stairs 111S

LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Walls and Ceiling	X	X	X	X	X		Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).
Metal	Riser, Spindle, Handrail and Radiator Door								

Room ID/Name: Main Building Stairs 113S

LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Walls and Ceiling	X	X	X	X	X		Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).
Metal	Riser, Spindle, Handrail Radiator, Door, and Window Guard								

Room ID/Name: Main Building Room 122

ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	All Layers of Vinyl Floor Tile, Mastic, Plywood, Felt Paper and/or any other Layers of ACM or non-ACM material between floor tiles and substrate.						X	Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM Removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.	Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s). Note: ACM Removal shall be conducted by a licensed Abatement Contractor under full containment method.

LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Walls (Yellow Color)	X	X	X	X			Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).
Brick	Walls	X		X				LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.	

Room ID/Name: Main Building Room 122 (Continued...)

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Walls and Ceiling (White Color)	X	X	X	X	X		Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).
Wood	Window Casing & Sill								

Room ID/Name: Main Building Room 130A

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Glazed Block	Walls	X		X	X			Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Main Building Room 132B

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Ceiling					X		Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Main Building Room 221

NON-ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	All Layers of Vinyl Floor Tile, Mastic, Plywood, Felt Paper and/or any other Layers of ACM or non-ACM material between floor tiles and substrate.						X	Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM Removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.	Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s). Note: ACM Removal shall be conducted by a licensed Abatement Contractor under full containment method.

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Walls	X	X	X	X			Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Main Building 231 (Gymnasium)

LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Wood	Window Casing, Frame & Guard							Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Walls and Ceiling	X	X	X	X	X		Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Main Building 232 (Gymnasium)

LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Wood	Window Casing, Frame & Guard							Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Walls and Ceiling	X	X	X	X	X		Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Main Building Stairs 232S1

LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Metal	Newel Post, Riser, Stringer, Handrail & Window Guard							Refer to Section 02 83 19.13: Lead-Based Paint Mitigation/Abatement LBP Mitigation and/or Abatement and/or Remove and Dispose as LBP waste as needed for completion of scope of work, as indicated in the contract documents and architectural drawings.	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Walls & Ceiling	X	X	X	X	X		Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Annex Building Stairs 164S

ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	All Layers of Vinyl Floor Tile, Mastic, and/or any other Layers of ACM or non-ACM material between floor tiles and substrate.						X	Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM Removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.	Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s). Note: ACM Removal shall be conducted by a licensed Abatement Contractor under full containment method.

NON-ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	Ceiling Tile					X			Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Annex Building Stairs 164S (Continued...)

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
CMU	Walls	X	X	X	X			Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).
Metal	Newel Post, Riser, Stringer, Handrail & Window Guard								
Any	Ceiling Tile					X			Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Annex Building Corridors 1E, 1EN, 1ES, 1N, 1S, 1W, 1WN, 1WS

ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	All Layers of Vinyl Floor Tile, Mastic, and/or any other Layers of ACM or non-ACM material between floor tiles and substrate.						X	Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM Removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.	Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s). Note: ACM Removal shall be conducted by a licensed Abatement Contractor under full containment method.

NON-ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	Ceiling Tile					X			Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

Room ID/Name: Annex Building Corridors 1E, 1EN, 1ES, 1N, 1S, 1W, 1WN, 1WS (Continued...)

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
CMU	Walls	X	X	X	X			Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).
Metal	Door Frames								

Room ID/Name: Annex Building Vestibule to Rooms 156 & 158

ACM Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	All Layers of Vinyl Floor Tile, Mastic, and/or any other Layers of ACM or non-ACM material between floor tiles and substrate.						X	Refer to Section 02 82 14: Asbestos Abatement Interiors. ACM Removal and disposal, as needed for completion of scope of work, as indicated in the contract documents.	Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s). Note: ACM Removal shall be conducted by a licensed Abatement Contractor under full containment method.

NON-ACM Areas:



Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Any	Ceiling Tile					X			Refer to contract documents, architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).

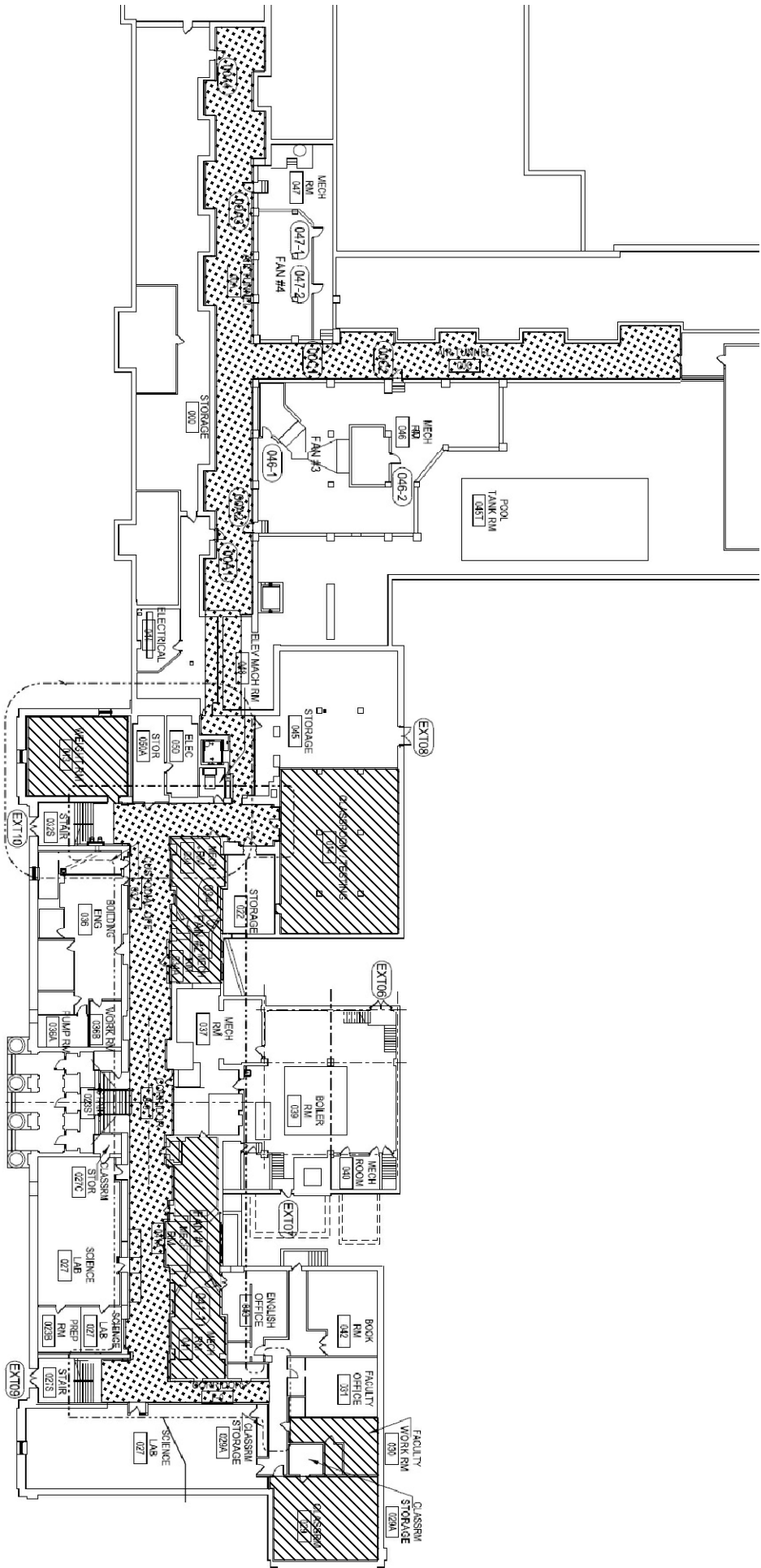
Room ID/Name: Annex Building Vestibule to Rooms 156 & 158 (Continued...)

NON-LBP Areas:

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
CMU	Walls	X	X	X	X			Refer to Section 01 56 11: General Dust, Fume and Odor Control	Refer to Contract Documents and architect's drawings, specifications, and/or photos for scope and extent of work, exact location(s) and/or number(s) and/or size(s).
Metal	Door Frames								



- LEGEND**
-  ASBESTOS ALL LAYERS OF VINYL FLOOR TILE, MASTIC AND UNDERLAYMENT
 -  ASBESTOS PIPE INSULATIONS & MUDDIED JOINT PACKING (EXCEPT FIBERGLASS)



BASEMENT PLAN



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SHEET #	1 OF 1	REVISIONS	DWG. NO.
DRAWN DATE	3/27/2017	1	ACM-1
DRAWN BY	J.DURAN	2	
APPR.	J.SHAH	3	

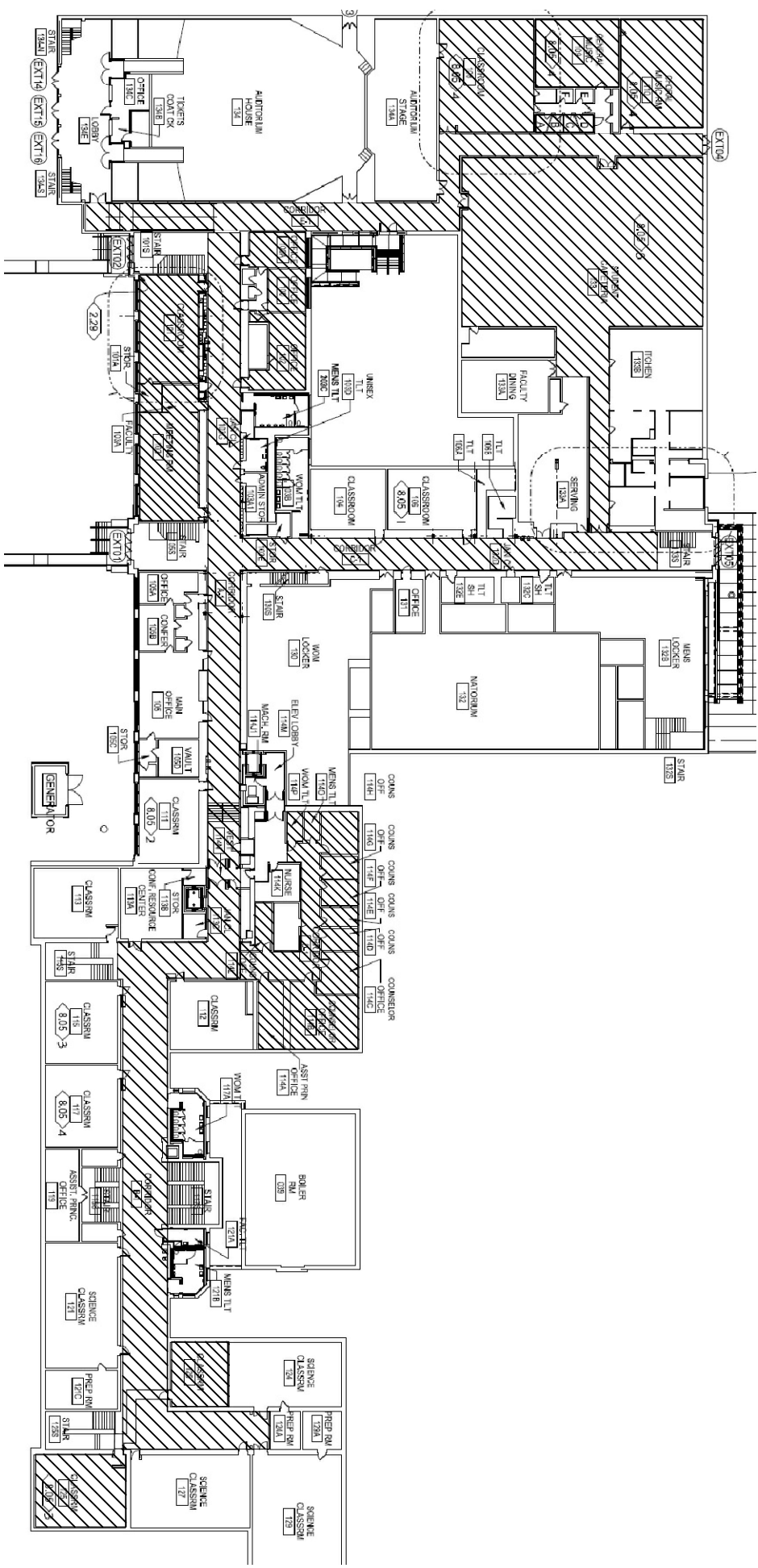


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SHEET #	1 OF 1	REVISIONS	DWG NO.
DRAWN DATE	3/27/2017	1	ACM-2
DRAWN BY	J.DURAN	2	
APPR.	J.SHAH	3	

FIRST FLOOR PLAN



LEGEND
 ASBESTOS ALL LAYERS OF VINYL
 FLOOR TILE, MASTIC AND
 UNDERLAYMENT



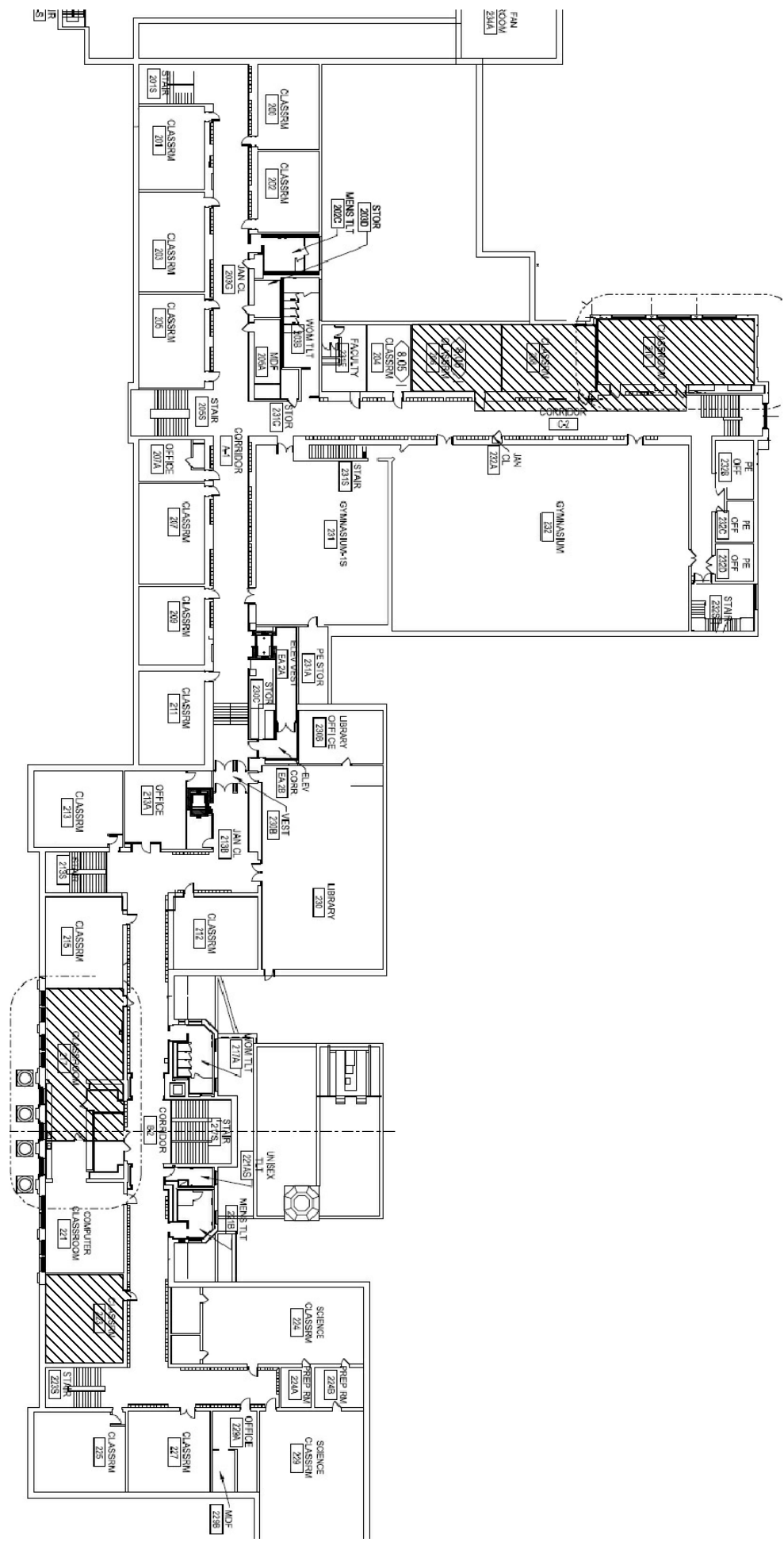


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LINCOLN PARK HIGH SCHOOL
 2001 NORTH ORCHARD STREET
 CHICAGO, IL 60614

SHEET #	1 OF 1	REVISIONS	DWG. NO.
DRAWN DATE	3/27/2017	1	ACM-3
DRAWN BY	J.DURAN	2	
APPR.	J.SHAH	3	

SECOND FLOOR PLAN



LEGEND
 ASBESTOS ALL LAYERS OF VINYL
 FLOOR TILE MASTIC AND
 UNDERLAYMENT



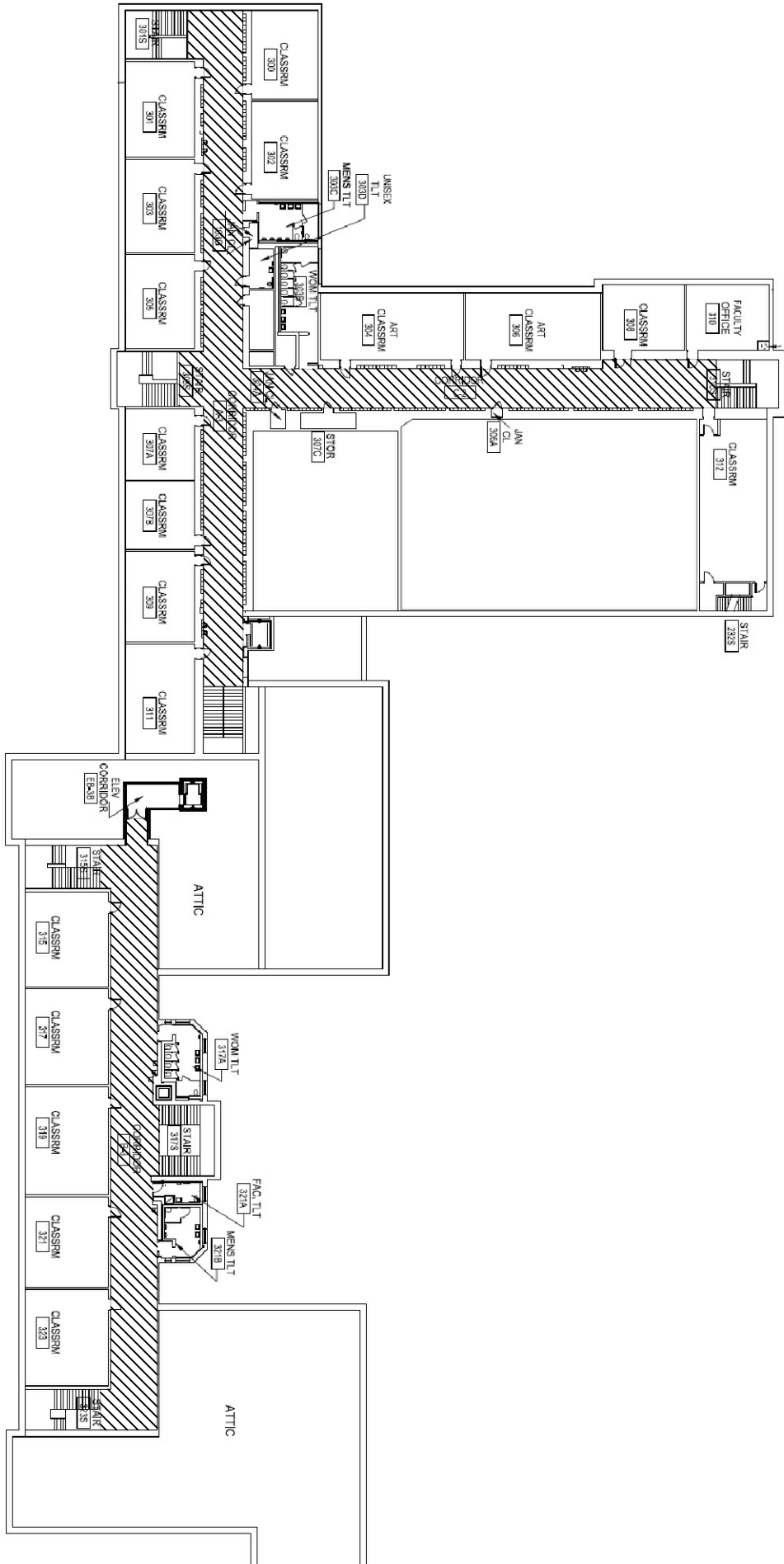


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LINCOLN PARK HIGH SCHOOL
 2001 NORTH ORCHARD STREET
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SHEET #	1 OF 1	REVISIONS	DWG. NO.
DRAWN DATE	3/27/2017	1	ACM-4
DRAWN BY	J.DURAN	2	
APPR.	J.SHAH	3	

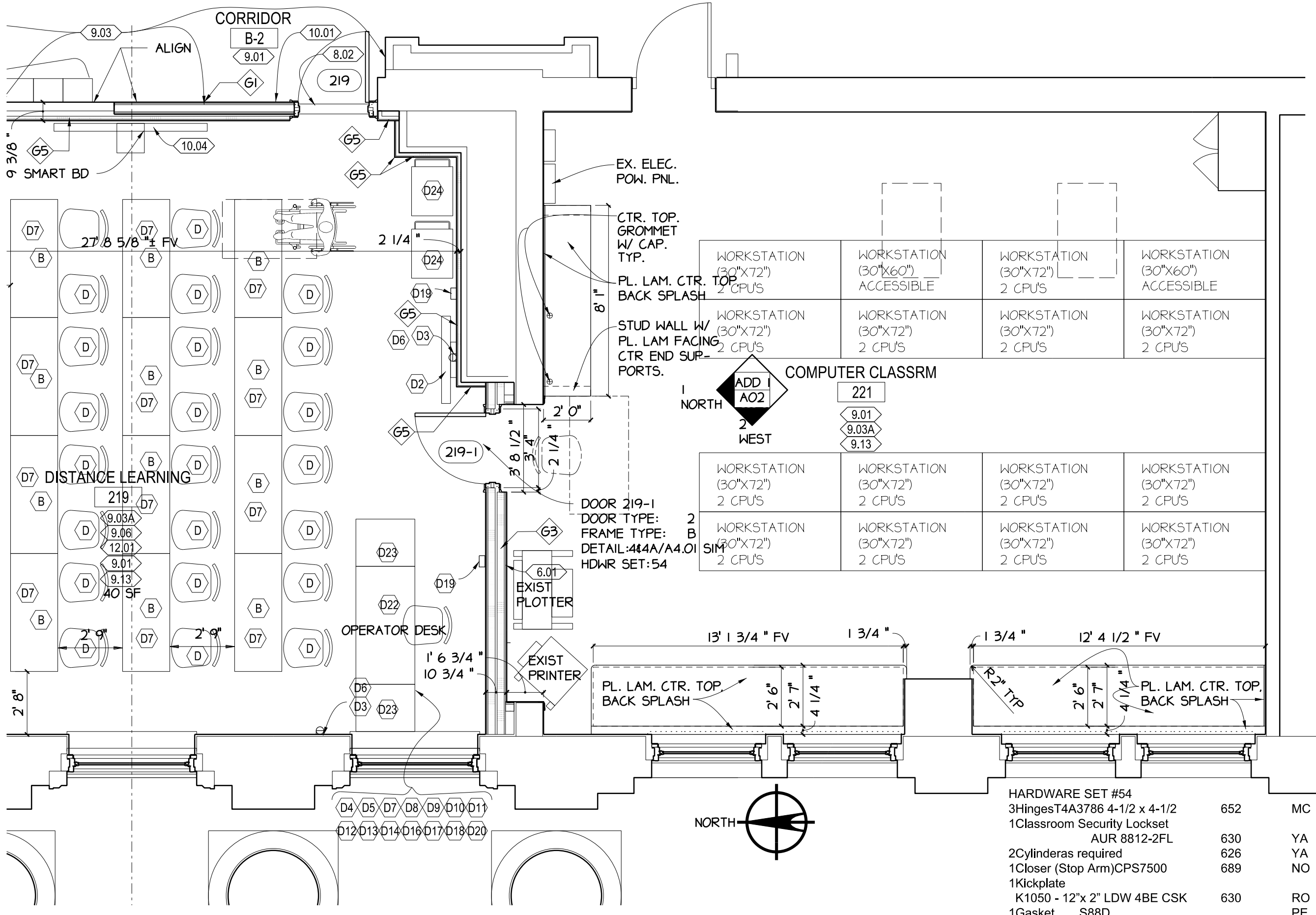
THIRD FLOOR PLAN



LEGEND

ASBESTOS ALL LAYERS OF VINYL
 FLOOR TILE MASTIC AND
 UNDERLAYMENT





COMPUTER CLASSRM 221

WORKSTATION (30"x72") 2 CPU'S	WORKSTATION (30"x60") ACCESSIBLE	WORKSTATION (30"x72") 2 CPU'S	WORKSTATION (30"x60") ACCESSIBLE
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WORKSTATION (30"x72") 2 CPU'S	WORKSTATION (30"x72") 2 CPU'S	WORKSTATION (30"x72") 2 CPU'S	WORKSTATION (30"x72") 2 CPU'S

HARDWARE SET #54

3HingesT4A3786 4-1/2 x 4-1/2	652	MC
1Classroom Security Lockset AUR 8812-2FL	630	YA
2Cylinders required	626	YA
1Closer (Stop Arm)CPS7500	689	NO
1Kickplate K1050 - 12"x 2" LDW 4BE CSK	630	RO
1Gasket S88D		PE

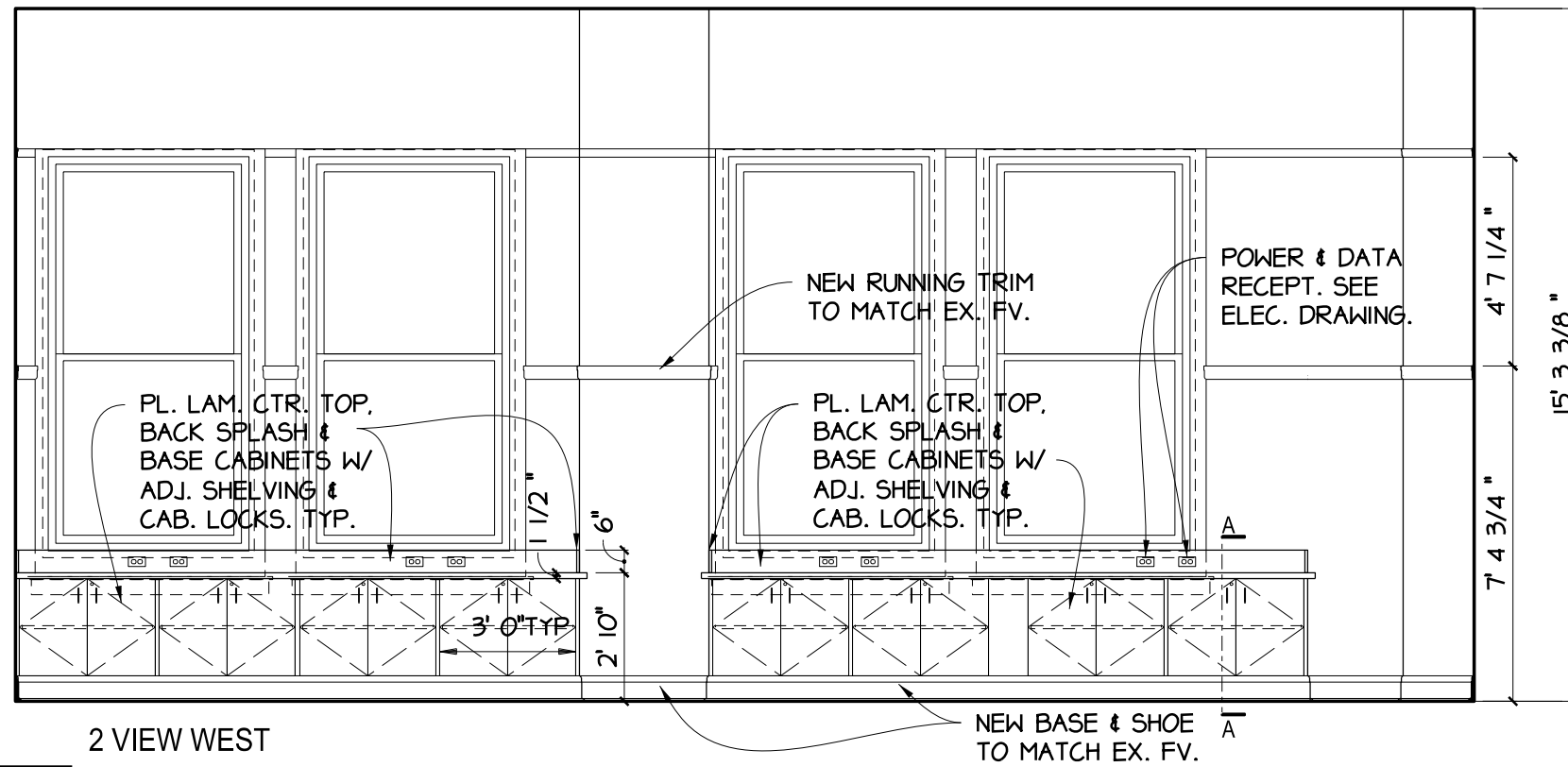
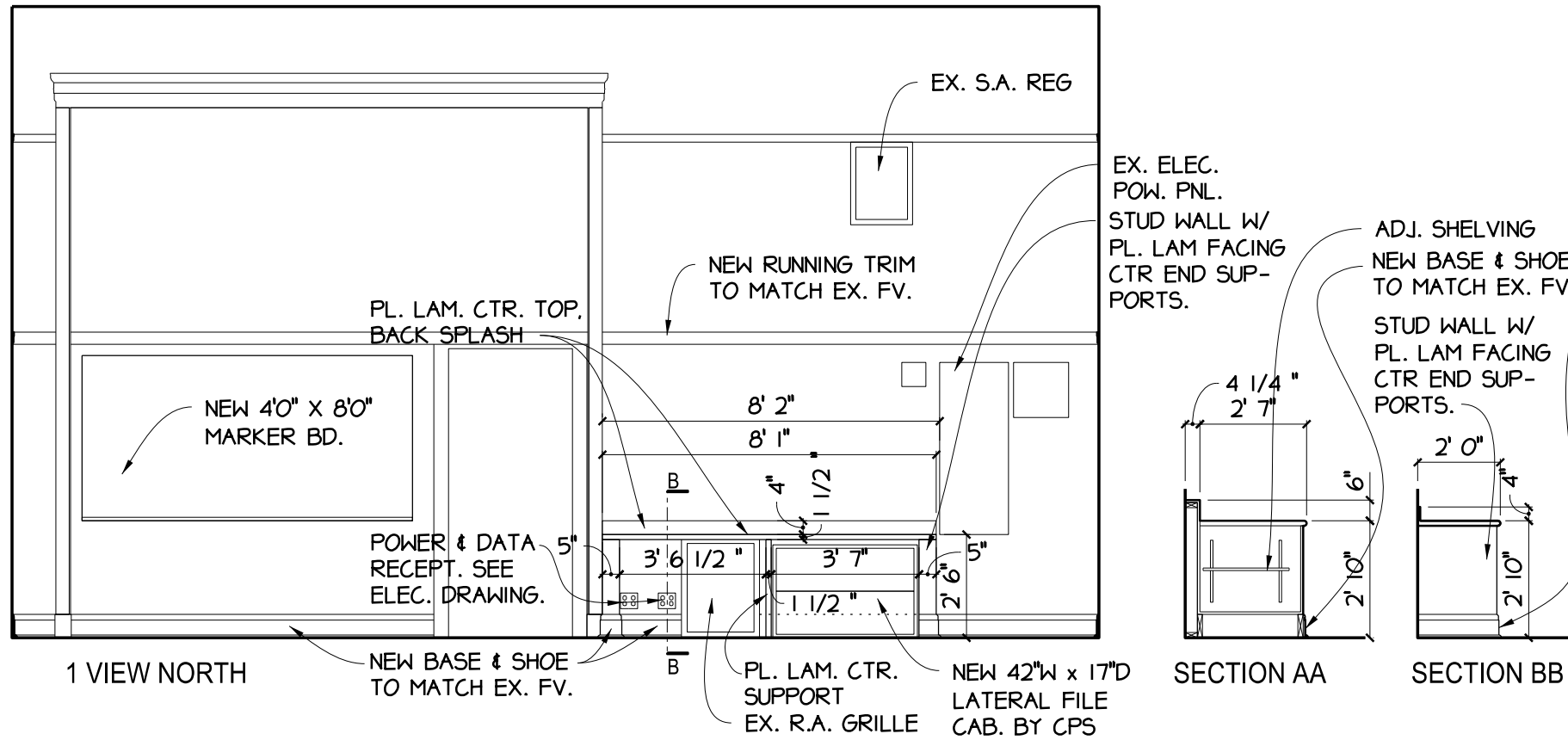
LINCOLN PARK HIGH SCHOOL
 MAJOR CAPITAL RENOVATION
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COMPUTER CLASSROOM 221

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**ADD 1
A01**

Project #: 16-289
 Dwg File:



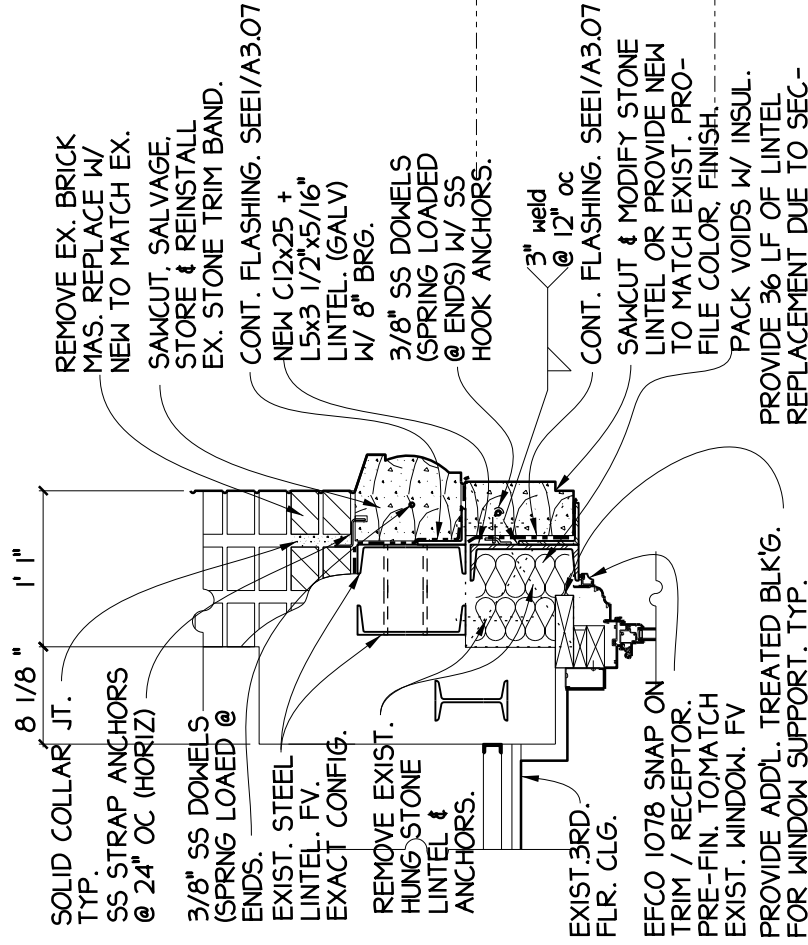
9 COMP. CLASSROOM 221 CABINETS.
 A2.02 SCALE: 1/4" = 1' 0"

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COMPUTER CLASSROOM 221

ADD 1
 A02
 Project #: 16-289
 Dwg File:

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MASONRY LINTEL REPAIR

SCALE: 3/4"=1'0"

4
A3.07

ADD 1
A03

REVISED 4/A3.07 DETAIL

Project #: 16-289

Dwg File:

Drawn By: SWWB Ltd.

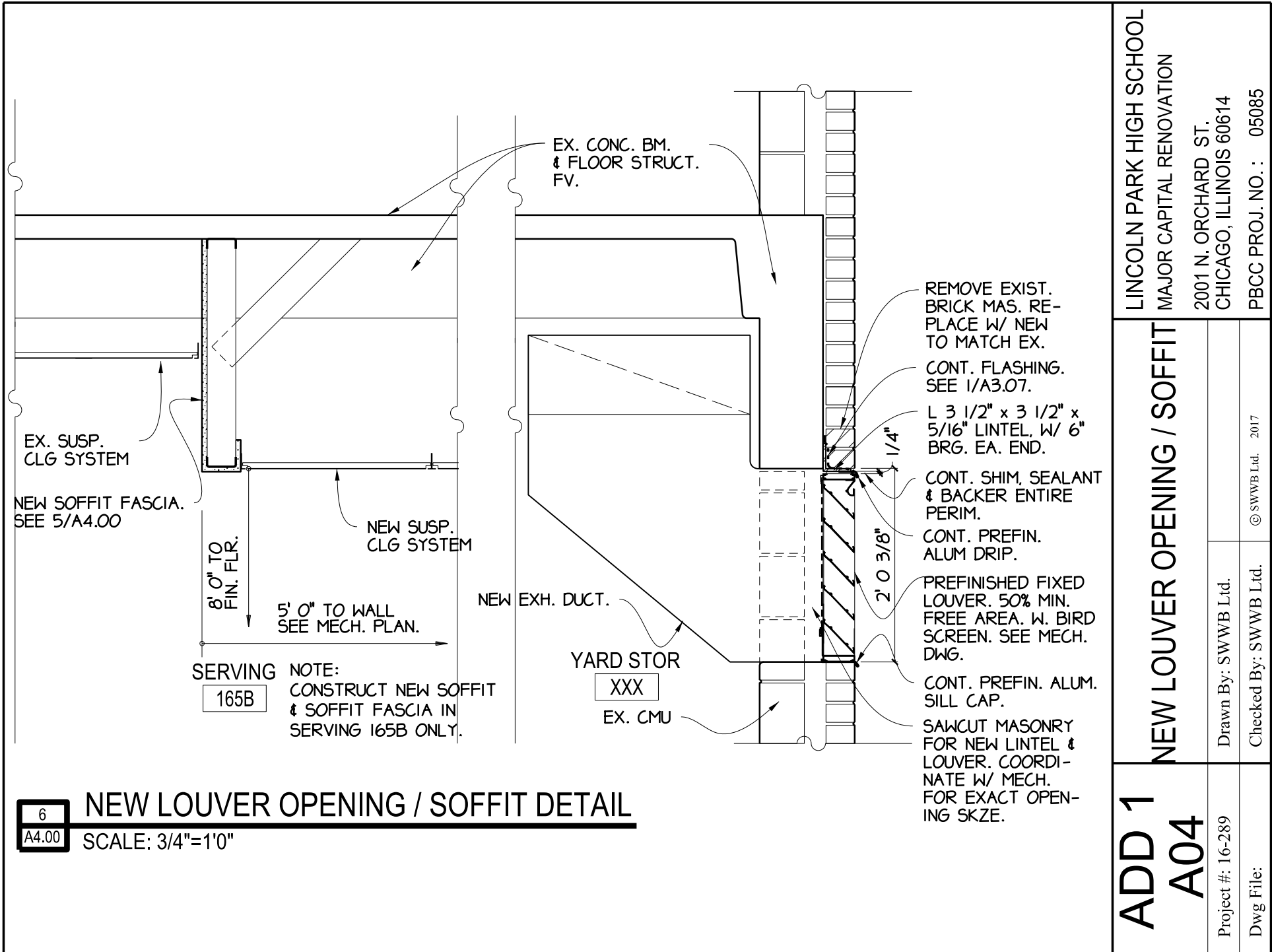
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MAJOR CAPITAL RENOVATION

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NEW LOUVER OPENING / SOFFIT

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ADD 1
A04

Project #: 16-289
 Dwg File:

6
 A4.00

NEW LOUVER OPENING / SOFFIT DETAIL

SCALE: 3/4"=1'0"

MAIN BUILDING DEMOLITION KEY NOTES

A - 400 HP STEAM BOILERS

- (1) NOT USED.
(2) NOT USED.
(3) NOT USED.
(4) NOT USED.
(5) ALTERNATE M1: DISCONNECT AND REMOVE BURNER.
(6) NOT USED.
(7) NOT USED.
(8) NOT USED.
(9) DISCONNECT AND REMOVE 3" BOILER RELIEF PIPES AT POINTS SHOWN.

B - AUXILIARIES

- (1) REPACK BOILER ISOLATION VALVES.
(2) DISCONNECT AND REMOVE STEAM GRAVITY CONDENSATE PIPING.
(3) NOT USED.
(4) NOT USED.
(5) DISCONNECT ALL POWER AND UTILITIES FROM TEMPERATURE CONTROL, AIR COMPRESSOR UNIT AND ASSOCIATED AIR DRYER, REMOVE AIR COMPRESSOR, AIR DRYER, AND ASSOCIATED LOCALIZED PIPING.
(6) DISCONNECT AND REMOVE ALL GRAVITY STEAM CONDENSATE TRAPS IN CONJUNCTION WITH STEAM GRAVITY CONDENSATE PIPING THAT IS BEING REPLACED AND IN CONJUNCTION WITH COIL REPLACEMENT.
(7) NOT USED.
(8) SCRAPE AND CLEAN THE SURFACES OF THE EXISTING STEAM VENTS, PRIME AND PAINT WITH HIGH TEMPERATURE ENAMEL PAINT.
(9) REPAIR STEAM LEAK IN 1ST FLR. NE ENTRY (OUTSIDE OF CHORAL MUSIC ROOM).

C - AHU-1 (BASEMENT)

FOR ADDITIONAL KEYNOTES SEE ENLARGED PLANS.
(1) DISCONNECT AND REMOVE RELIEF DAMPERS AND ACTUATORS. (ATTIC/ROOF)

D - AHU-2 (BASEMENT)

FOR ADDITIONAL KEYNOTES SEE ENLARGED PLANS.
(1) DISCONNECT AND REMOVE RELIEF DAMPERS AND ACTUATORS (ATTIC / ROOF).

F - AHU-4 (BASEMENT) ALTERNATE M-1 FOR ALL "L" WORK LISTED BELOW

- (1) DISCONNECT AND CLEAN 25 HP MOTOR. REMOVE FAN BELTS.
(2) NOT USED.
(3) CLEAN AND DEGREASE FAN. DECREASE FAN BEARINGS AND REGREASE. (QTY:2)
(4) PRESSURE WASH THE PREHEAT REHEAT COILS.
(5) CLEAN AND DECREASE THE OUTSIDE AIR DAMPERS (2) LUBRICATE SHAFTS, ADJUST AND LUBRICATE LINKAGES, ADJUST DAMPER BLADES IF REQUIRED, DAMPERS TO BE EXERCISED TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(6) DISCONNECT AND REMOVE RETURN AIR DAMPER AND ACTUATORS.
(7) DISCONNECT AND REMOVE BY PASS DAMPERS, AND ACTUATORS LOCATED UNDER THE PREHEAT COILS. CAP PNEUMATIC LINES AIRTIGHT.
(8) DISCONNECT AND REMOVE EXISTING SINGLE BLADE RELIEF DAMPER AND ACTUATOR.
(9) CLEAN & LUBRICATE ALL ZONE DAMPERS (QTY:11) DISCONNECT AND REMOVE ACTUATORS. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(10) REMOVE FILTERS. EXISTING FILTER RACK TO REMAIN.
(11) CLEAN AND SEAL THE AIR PLENUM. SCRAPE PLASTER PLENUMS AND SHEET METAL PLENUMS.
(12) NOT USED.
(13) NOT USED.
(14) NOT USED.

F - AHU-5 (BASEMENT)

- (1) ALTERNATE M1: DISCONNECT AND REMOVE FAN. REMOVE FAN, DRIVE, BAS AND DISCHARGE DUCTWORK. FILL IN WALL OPENING FOR EXISTING SHAFT.
(2) ALTERNATE M2: DISCONNECT AND REMOVE PREHEAT COIL. REMOVE ASSOCIATED STEAM SUPPLY AND CONDENSATE PIPING BACK TO AND INCLUDING SHUT OFF VALVES AT MAINS. REMOVE COIL SAVING AND MISC. SUPPORTS.
(3) DISCONNECT AND REMOVE OUTSIDE AIR DAMPERS AND ACTUATORS. (ROOF / ATTIC)
(4) RETURN AIR DAMPERS SHALL BE CLEANED, REMOVE ACTUATORS, SHAFTS AND LINKAGES SHALL BE LUBRICATED. (ATTIC)
(5) DISCONNECT AND REMOVE BY PASS DAMPERS AND ACTUATORS
(6) DISCONNECT AND REMOVE RELIEF DAMPER AND ACTUATOR (ATTIC)
(7) REMOVE FILTERS FROM RACK.
(8) CLEAN PLENUM, SEAL ALL OPENINGS.
(9) FIRE STOP EXISTING PIPE / CONDUIT / CABLE PENETRATIONS.

G - AIR TUNNEL (SERVED BY AHU-5)

- (1) ALTERNATE M1-PRESSURE WASH 11 REHEAT BOXES
(2) ALTERNATE M1-CLEAN & LUBRICATE ZONE DAMPERS, SHAFTS AND LINKAGES (QTY:37) DISCONNECT AND REMOVE ACTUATORS.
(3) ALTERNATE M1-PRESSURE WASH AIR TUNNEL FLOOR. SEAL ALL OPENINGS
(4) NOT USED
(5) DISCONNECT AND REMOVE STEAM TRAPS, STRAINERS AND UNIONS IN EACH REHEAT BOX IN CONJUNCTION WITH TUNNEL CONDENSATE PIPING REPLACEMENT
(6) PROVIDE WEATHER TIGHT SEALING OF PIPING AND CONDUITS THAT PENETRATE TUNNEL WALL
(7) REMOVE EXISTING BLOCKING AND PROVIDE WEATHER TIGHT SEALING OF PIPING AND CONDUITS THAT PENETRATE TUNNEL WALL

H - PACKAGED UNIT AHU-3

- (1) ALTERNATE M1: CLEAN AND DECREASE FAN. DECREASE FAN BEARINGS AND REGREASE (QTY:2)
(2) ALTERNATE M1: DISCONNECT AND REMOVE FAN BELTS. REINSTALL FAN GUARD
(3) ALTERNATE M1: PRESSURE WASH STEAM COIL
(4) DISCONNECT AND REMOVE OUTSIDE AIR DAMPER AND ACTUATOR. RETURN & EXHAUST AIR DAMPERS SHALL BE CLEANED, REMOVE ACTUATORS. SHAFTS AND LINKAGES SHALL BE LUBRICATED. PROVIDE NEW 18x16 DUCT ACCESS DOORS AT DAMPERS FOR SERVICING.
(5) ALTERNATE M1: REMOVE FILTERS IN FILTER RACK
(6) ALTERNATE M1: DISCONNECT & REMOVE FLEXIBLE CONNECTIONS IN FAN PLENUM.
(7) ALTERNATE M1: CLEAN & LUBRICATE ZONE DAMPERS, SHAFTS AND LINKAGES (QTY:6) TEST ALL PNEUMATIC ACTUATORS. DISCONNECT AND REMOVE FAULTY ACTUATORS.
(8) NOT USED.

J - AUDITORIUM PACKAGED UNIT (S-3)

- (1) ALTERNATE M1: CLEAN AND DECREASE 20 HP MOTOR.
(2) ALTERNATE M1: CLEAN AND DECREASE FAN. DECREASE FAN BEARINGS AND REGREASE. REMOVE FAN BELTS.
(3) ALTERNATE M1: PRESSURE WASH STEAM HEAT COIL
(4) DISCONNECT & REMOVE OUTSIDE AIR DAMPERS AND ACTUATORS (QTY:3) AND ASSOCIATED WALL LOUVER.
(5) RETURN AIR DAMPERS SHALL BE CLEANED AND DECREASED, SHAFTS LUBRICATED, LINKAGES ADJUSTED AND LUBRICATED. DAMPER BLADES SHALL BE ADJUSTED AS REQUIRED. DISCONNECT & REMOVE DAMPER ACTUATOR.
(6) ALTERNATE M1: BYPASS DAMPER (LOCATED ABOVE THE COIL) TO BE CLEANED, LINKAGES ADJUSTED AND DAMPERS LUBRICATED.
(7) DISCONNECT & REMOVE EXHAUST AIR DAMPERS AND ACTUATORS.
(8) ALTERNATE M1: REMOVE FILTERS
(9) DISCONNECT AND REMOVE RETURN/EXHAUST FAN MOTOR (7.5 HP) REMOVE FAN BELTS. CLEAN AND DECREASE RETURN FAN. DECREASE AND REGREASE BEARINGS.
(10) ALTERNATE M1: REMOVE EXTERNAL INSULATION IN OA PLENUM, MIXING BOX AND AHU SECTIONS UPSTREAM OF HEATING COIL.
(11) DISCONNECT AND REMOVE EXISTING ACTUATOR AND 9'-4'x7'-0" OUTSIDE AIR LOUVER.

K - LUNCH ROOM PACKAGED UNIT (S-4)

- (1) ALTERNATE M1: REMOVE FAN BELTS
(2) ALTERNATE M1: REMOVE BEARINGS
(3) ALTERNATE M1: PRESSURE WASH STEAM COIL
(4) REFURBISH FACE & BY PASS DAMPER. CLEAN AND DECREASE DAMPER. LUBRICATE SHAFTS, ADJUST AND LUBRICATE LINKAGES. ADJUST DAMPER BLADES IF REQUIRED. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(5) REMOVE FILTERS IN FILTER RACK
(6) ALTERNATE M1: DISCONNECT & REMOVE FLEXIBLE CONNECTIONS AT THE O.A. PLENUM. REMOVE EXTERNAL INSULATION ON AHU.
(7) ALTERNATE M1: REMOVE EXTERNAL INSULATION ON OA PLENUM AND AHU SECTIONS UPSTREAM OF HEATING COIL.
(8) DISCONNECT AND REMOVE EXISTING O.A. DAMPER AND ACTUATOR AND EXISTING 10'-0"x5'-0" OUTSIDE AIR LOUVER.

L - STAGE PACKAGED AIR HANDLING UNIT REFURBISHMENT (S-5) ALTERNATE M-1 FOR ALL "L" WORK LISTED BELOW

- (1) CLEAN AND DECREASE FAN. DECREASE FAN BEARINGS AND REGREASE.
(2) REMOVE FAN BELTS
(3) PRESSURE WASH STEAM COIL
(4) REFURBISH RETURN DAMPER/DISCONNECT AND REMOVE OUTSIDE AIR INTAKE DAMPER AND ACTUATOR. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(5) REMOVE FILTERS IN FILTER RACKS.
(6) REPAIR STEAM SUPPLY PIPE LEAK
(7) REMOVE EXTERNAL INSULATION ON THE OA PLENUM & MIXING BOX.
(8) DISCONNECT AND REMOVE EXISTING 5'-0"x 7'-0" OUTSIDE AIR LOUVER. REMOVE EXISTING OUTSIDE AIR PLENUM IN CONJUNCTION WITH THE OUTSIDE AIR LOUVER REPLACEMENT.

M - UNIT VENTILATORS ALTERNATE M-2 FOR ALL "M" WORK LISTED BELOW

- (1) EXISTING 2005 MCGUAY UNIT VENTILATOR, CONTRACTOR SHALL FULLY INSPECT EACH UNIT VENTILATOR AND ALERT CONSTRUCTION MANAGER OF ANY DEFICIENCIES PRIOR TO PROCEEDING WITH FULL SERVICING OF THE UNIT. CONTRACTOR SHALL INSPECT THE UNIT TO VERIFY PROPER FAN OPERATION, PROPER OPERATION OF ALL CONTROL COMPONENTS THROUGH ALL SEQUENCES (F&B DAMPER, ECONOMIZER DAMPERS, FREEZE/STAT, CONTROL VALVES, ACTUATORS, FAN SWITCH, FILTER SWITCH & LIGHT, THERMOSTAT, ETC), DRAIN PAN CONDITION INCLUDING PROPER DRAINAGE, CONDITION OF ALL DAMPERS & DAMPER BLADE SEALS, AND THE INTEGRITY OF ALL ASSOCIATED HYDRONIC COMPONENTS. PROVIDE AN ITEMIZED LIST OF ANY DEFICIENCIES FOUND AND SUBMIT FOR CONSTRUCTION MANAGER'S REVIEW. AFTER CONFIRMING THAT THE UNIT VENTILATOR IS FULLY OPERATIONAL, PROVIDE A COMPLETE SERVICE AND CLEANING.
A. COMPLETELY CLEAN THE UNIT INCLUDING ALL FANS, COILS, DRAIN PAN, DAMPERS, AND INTERIOR CASING IN ACCORDANCE WITH SPECIFICATION 23 01 30.5.1
B. REMOVE THE FAN DECK AND DISASSEMBLE AS REQUIRED FOR PROPER CLEANING, DECREASE, CLEAN AND LUBRICATE ALL BEARINGS MAKING SURE TO REMOVE ALL OLD LUBRICATION FROM WITHIN THE BEARINGS AND TO CLEAN UP ANY EXCESS LUBRICATION FOR THE EXTERIOR OF THE BEARINGS AND UNIT COMPONENTS.

- C. REFURBISH ALL DAMPERS INCLUDING OUTSIDE AIR, RETURN AIR AND RELIEF (LOCATED REMOTELY), COMPLETELY CLEAN AND DECREASE THE DAMPER ASSEMBLY AND STRAIGHTEN ANY BLADES AS REQUIRED. LUBRICATE ALL BEARINGS AND LINKAGES. REPLACE ANY DAMAGED BLADE SEALS ON THE OUTSIDE AIR AND RELIEF DAMPERS. LUBRICATE, EXERCISE AND ADJUST ALL LINKAGES TO ACHIEVE SMOOTH OPERATION AND TIGHT CLOSURE.
D. REMOVE AND REPLACE THE EXISTING AIR FILTERS WITH NEW MERV-8 FILTERS SIZED TO FIT THE EXISTING UNIT.
(1) DISCONNECT & REMOVE UNIT VENTILATOR AND ASSOCIATED THERMOSTAT. CLEAN O.A. LOUVER AND BIRDSCREEN.

N - EXHAUST FANS, HOODS, GOOSENECKS, CONDENSING UNITS, STEAM VENT (ONLY WHERE ROOF IS BEING REPLACED)

SEE NOTES ON ROOF MECHANICAL DEMO PLANS

R - MISCELLANEOUS

- (1) FILL IN WALL OPENING WHERE EXISTING PIPE IS REMOVED.
(2) DISCONNECT AND REMOVE SUPPLY DUCTWORK AND EXHAUST DUCTWORK WITHIN CRAWL SPACE BELOW POOL.



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CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM IMANUEL



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Melvin Cohen & Assoc.
Chicago, Illinois
Mechanical, Electrical, Plumbing and FP Engineer

Altamano, Inc.
Chicago, Illinois
Landscape Architect

MAIN BUILDING NEW WORK KEY NOTES

A - 400 HP STEAM BOILERS

- (1) ALTERNATE M1: REPLACE EXISTING BOILER BURNERS FOR BOTH BOILERS. PROVIDE NEW BURNERS IN COMPLIANCE WITH SPECIFICATION 23 01 51.
(2) RECONITION BOILER NUMBER 1 AS FOLLOWS:
A. REPLACE (32) TUBES WITH A WALL LOSS OF 41% AND HIGHER AS IDENTIFIED IN THE BOILER CONDITION LIFE ASSESSMENT REPORT BY BOILER INSPECTION SERVICES COMPANY DATED FEBRUARY 2017.
(3) RECONITION BOILER NUMBER 2 AS FOLLOWS:
A. REPLACE (42) TUBES WITH A WALL LOSS OF 40% AND HIGHER AS IDENTIFIED IN THE BOILER CONDITION LIFE ASSESSMENT REPORT BY BOILER INSPECTION SERVICES COMPANY DATED FEBRUARY 2017.
B. REPAIR THE LEAK IN THE PIPING AT THE LOW WATER CUT-OFF.
(4) PERFORM THE FOLLOWING WORK ON BOTH BOILERS:
A. PRESSURE WASH THE WATERSIDE OF THE BOILER AND REMOVE ANY SCALE OR SOLID DEPOSITS ON THE TUBES AND SHELL. CLEAN OUT ALL SEDIMENT AND DEBRIS FROM THE BOTTOM OF THE BOILER.
B. CLEAN ALL SCALE AND DEPOSITS FROM THE WATERSIDE OF THE BOILER'S TUBES, FURNACE SHEET AND TUBE SHEETS.
C. REMOVE ALL BLACK SOOT THAT HAS ACCUMULATED ON THE SHELL OF THE FURNACE SHEET. TUNE UP THE EXISTING BURNER (OR NEW AS PART OF ALTERNATE M1) IN ACCORDANCE WITH THE "BURNER SET-UP" SPECIFIED IN SECTION 23 01 51.
D. REPAIR CRACKED REFRACTORY AROUND THE BURNER AND THE FRONT OF THE TUBESHEET DOORS.
E. CALIBRATE THE MAIN PRESSURE GAUGE AND AUXILIARY PRESSURE GAUGES TO A MASTER GAUGE TRACEABLE TO THE NATIONAL STANDARD.
F. CALIBRATE THE SAFETY RELIEF VALVES.
G. CLEAN THE FLOAT BOWL OF THE LOW WATER FUEL CUT OFF DEVICE.
H. REPAIR THE LEAK IN THE PACKING GLAND OF THE MAIN STEAM ISOLATION VALVE.
I. PROVIDE ALL GASKETS, SEALS, HAND HOLES, HARDWARE, ETC. AS REQUIRED TO PERFORM THE LISTED SERVICING. UPON COMPLETION PERFORM ALL TESTING IN ACCORDANCE WITH SPECIFICATION 230151.

- (75) THRU (10) NOT USED
(11) PROVIDE 3 FULL SIZE BOILER RELIEF PIPING UP THROUGH ROOF.

B - AUXILIARIES

- (1) NOT USED
(2) PROVIDE NEW STEAM GRAVITY CONDENSATE PIPING
(3) NOT USED
(4) REBUILD (4) FOUR EXISTING FEEDWATER PUMPS ASSOCIATED WITH THE EXISTING KEWANEE MJ12L4 FEEDWATER SYSTEM. DISASSEMBLE, CLEAN AND INSPECT EACH PUMP, ALERT OWNER OF ANY DEFICIENCIES WITH PUMPS BEFORE PROCEEDING WITH REBUILD. PROVIDE ALL NEW SEALS, BEARINGS, COUPLINGS AND GASKETS.
(5) PROVIDE NEW POWER AND UTILITIES FROM TEMPERATURE CONTROL, AIR COMPRESSOR UNIT. PROVIDE NEW AIR COMPRESSOR.
(6) PROVIDE NEW GRAVITY STEAM CONDENSATE TRAPS IN CONJUNCTION WITH STEAM GRAVITY CONDENSATE PIPING THAT IS INDICATED TO BE REPLACED AND IN CONJUNCTION WITH COIL REPLACEMENTS.
(7) REPAIR STEAM LEAK IN PIPING TO EXISTING CABINET UNIT HEATER. PROVIDE NEW PIPING AND FITTINGS AS REQUIRED.

C - AHU-1 (BASEMENT)

FOR ADDITIONAL KEYNOTES, SEE ENLARGED PLANS.

- (1) PROVIDE NEW RELIEF DAMPERS AND ACTUATORS. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSE AFTER INSTALLATION.

D - AHU-2 (BASEMENT)

FOR ADDITIONAL KEYNOTES, SEE ENLARGED PLANS.

- (1) PROVIDE NEW RELIEF DAMPERS AND ACTUATORS. EXERCISE DAMPERS WITHOUT BINDING FROM FULL OPEN TO FULL CLOSE AFTER INSTALLATION.

F - AHU-4 (BASEMENT) ALTERNATE M1 FOR ALL "L" WORK LISTED BELOW

- (1) PROVIDE NEW FAN BELTS.
(2) NOT USED.
(3) PROVIDE NEW RETURN AIR DAMPER AND ACTUATORS. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(4) PROVIDE NEW BY PASS DAMPERS AND ACTUATORS UNDER EXISTING PREHEAT COILS.
(5) PROVIDE NEW RELIEF DAMPER AND ACTUATORS. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(6) REPLACE EXISTING PNEUMATIC ZONE DAMPER ACTUATORS. PROVIDE CONTROL ZONE VERIFICATION PER TESTING OF EXISTING EQUIPMENT ON M.O.O.
(7) PROVIDE NEW MERV 8 FILTERS IN EXISTING FILTER RACK.
(8) NOT USED.
(9) PROVIDE NEW FREEZE STATS, SMOKE DETECTORS AND AVERAGING THERMOSTATS

F - AHU-5 (BASEMENT)

- (1) ALTERNATE M1-PROVIDE NEW SUPPLY FANS AND VFD'S.
(2) ALTERNATE M2-PROVIDE NEW PREHEAT COIL. PROVIDE NEW SUPPORT GRILLAGE TO MOUNT NEW COILS TO EXISTING STRUCTURE. PROVIDE METAL SPRING TO DIRECT ALL AIRFLOW THROUGH THE COIL PIPE TO EXISTING STEAM AND CONDENSATE MAINS ACCORDING TO THE "STEAM HEATING COIL PIPING DIAGRAM" DETAIL.
(3) PROVIDE NEW OUTSIDE AIR DAMPERS AND ACTUATORS. (ATTIC) EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(4) PROVIDE NEW RETURN AIR ACTUATORS. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(5) PROVIDE NEW BY PASS DAMPERS AND ACTUATORS UNDER THE PREHEAT COIL. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(6) PROVIDE NEW RELIEF DAMPER AND ACTUATOR. (ATTIC) EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(7) ALTERNATE M2: PROVIDE NEW MERV-8 FILTERS IN EXISTING RACK.
(8) ALTERNATE M2-PROVIDE NEW FREEZE STATS, SMOKE DETECTORS AND AVERAGING THERMOSTATS. SEE CONTROL DRAWINGS. NOT ALL CONTROLS INDICATED IN PLANS.
(9) PROVIDE NEW SMOKE DETECTORS.

G - AIR TUNNEL (SERVED BY AHU-5)

- (1) ALTERNATE M1: PROVIDE NEW ACTUATORS AT EACH REHEAT ZONE DAMPER. PROVIDE CONTROL ZONE VERIFICATION PER TESTING OF EXISTING EQUIPMENT ON M.O.O.
(2) ALTERNATE M2: PROVIDE CONTROL VALVES ON LPS TO REHEAT BOX COILS AND AVERAGING TEMPERATURE SENSORS POSITIONED ACROSS THE FULL FACE OF THE COILS. PROVIDE ALL ASSOCIATED VALVING AS INDICATED IN THE "REHEAT BOX STEAM HEATING COIL PIPING DIAGRAM" DETAIL.
(3) PROVIDE NEW STEAM TRAPS, STRAINERS AND UNIONS IN EACH REHEAT BOX IN CONJUNCTION WITH TUNNEL CONDENSATE PIPING REPLACEMENT

H - PACKAGED UNIT AHU-3

- (1) ALTERNATE M1: PROVIDE NEW FAN BELTS.
(2) PROVIDE NEW RETURN AND EXHAUST AIR DAMPER ACTUATORS. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(3) PROVIDE NEW MERV 8 FILTERS IN EXISTING FILTER RACK
(4) PROVIDE NEW FLEXIBLE CONNECTIONS IN FAN PLENUM.
(5) PROVIDE NEW ACTUATORS.
(6) PROVIDE NEW OUTSIDE AIR DAMPER AND ACTUATOR. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(7) PATCH OVER THE BOTTOM 40" OF THE EXISTING 78x24 O.A. PLENUM. SEAL ALL EDGES OF THE PATCH TO THE WALLS OF THE EXISTING PLENUM.

J - AUDITORIUM PACKAGED UNIT (S-3)

- (1) PROVIDE NEW OUTSIDE AIR DAMPERS AND ACTUATORS AND WALL LOUVER. UTILIZE NORTH 1/3 OF O.A. DAMPERS FOR MINIMUM O.A. OPERATION.
(2) PROVIDE NEW RETURN AIR DAMPER ACTUATOR. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(3) ALTERNATE M1: PROVIDE NEW MERV 8 FILTERS IN EXISTING FILTER RACK.
(4) PROVIDE NEW RETURN/EXHAUST FAN MOTOR (7.5 HP) PROVIDE NEW FAN BELTS.
(5) ALTERNATE M1: PROVIDE NEW EXTERNAL INSULATION ON OA PLENUM, MIXING BOX EXTERNAL FACE & BYPASS AND AHU SECTIONS UPSTREAM OF HEATING COIL.
(6) ALTERNATE M1: PROVIDE NEW ACCESS DOORS TO FACILITATE SERVICING AND CLEANING OF UNIT. PROVIDE (2) 18x18 ACCESS DOORS IN FAN SECTION IMMEDIATELY DOWNSTREAM OF THE HEATING COIL, AND (2) 24x14 ACCESS DOORS IN THE DISCHARGE SIDE OF THE FACE & BYPASS.

- (7) PROVIDE NEW EXHAUST AIR DAMPER AND ACTUATOR. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(8) PROVIDE NEW FAN BELTS

K - LUNCH ROOM PACKAGED UNIT (S-4)

- (1) ALTERNATE M1-PROVIDE NEW FAN BELTS
(2) ALTERNATE M1-PROVIDE NEW BEARINGS
(3) PROVIDE NEW FRESH AIR INTAKE DAMPER AND ACTUATORS. PROVIDE NEW WALL LOUVER.
(4) ALTERNATE M1: PROVIDE NEW MERV 8 FILTERS IN EXISTING FILTER RACK
(5) ALTERNATE M1-PROVIDE NEW FLEXIBLE CONNECTIONS ON THE O.A. PLENUM. PROVIDE NEW EXTERNAL INSULATION ON O.A. PLENUM, EXTERNAL FACE & BYPASS AND AHU SECTIONS UPSTREAM OF HEATING COIL.
(6) ALTERNATE M1-PROVIDE NEW ACCESS PANEL TO FACILITATE SERVICING AND CLEANING OF UNIT. PROVIDE (2) 18x14 ACCESS DOORS IN FAN SECTION IMMEDIATELY DOWNSTREAM OF THE HEATING COIL, AND (2) 24x12 ACCESS DOORS IN THE DISCHARGE SIDE OF THE EXTERNAL FACE & BYPASS.
(7) ALTERNATE M1-PROVIDE NEW EXTERNAL INSULATION ON OA PLENUM AND AHU SECTIONS UPSTREAM OF HEATING COIL.

L - STAGE PACKAGED AIR HANDLING UNIT REFURBISHMENT (S-5) ALTERNATE M1 FOR ALL "L" WORK LISTED BELOW

- (1) PROVIDE NEW FAN BELTS
(2) PROVIDE NEW RETURN DAMPER ACTUATOR PROVIDE NEW OUTSIDE AIR INTAKE DAMPER AND ACTUATOR. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(3) PROVIDE NEW MERV 8 FILTERS IN EXISTING FILTER RACKS.
(4) PROVIDE NEW ACTUATOR SERVING NEW CONTROL DAMPERS. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSED POSITION.
(5) PROVIDE NEW FLEXIBLE CONNECTIONS ON THE FAN PLENUM. PROVIDE NEW INSULATION.
(6) PROVIDE NEW 24x24 DUCT ACCESS DOORS ON BOTTOM OF NEW O.A. PLENUM.
(7) PROVIDE NEW EXTERNAL INSULATION ON THE OA PLENUM, MIXING BOX AND AHU SECTIONS UPSTREAM OF THE HEATING COIL.
(8) PROVIDE NEW 36x12 ACCESS DOOR INTO BOTTOM OF UNIT DOWNSTREAM OF THE HEATING COIL, AND IN THE BOTTOM OF THE FILTER BOX TO FACILITATE SERVICING AND CLEANING OF THE UNIT.
(9) PROVIDE NEW OUTSIDE AIR LOUVER AND PLENUM WITH DAMPER ACCESS DOORS IN CONJUNCTION WITH LOUVER REPLACEMENT.

M - UNIT VENTILATORS ALTERNATE M2 FOR ALL "M" WORK LISTED BELOW

- (1) PROVIDE NEW UNIT VENTILATOR AND ASSOCIATED VALVING. REPLACE ALL PIPING UP TO AND INCLUDING ASSOCIATED SHUT OFF VALVES AND ALL PIPING LOCATED WITHIN THE CONFINES OF THE UNIT ENCLOSURE. SEAL NEW UNIT WEATHERTIGHT TO EXISTING WALL LOUVER OPENING. PROVIDE NEW WALL THERMOSTAT AT LOCATION OF EXISTING.

N - EXHAUST FANS, HOODS, GOOSENECKS, CONDENSING UNITS, STEAM VENTS (ONLY WHERE ROOF IS BEING REPLACED)

SEE NOTES ON ROOF NEW WORK PLANS

R - MISCELLANEOUS

- (1) REPLACE EXISTING FAILING DUCTWORK WITH SAME SIZE AS EXISTING. RECONNECT TO EXISTING. REINSULATE IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS FOR UNCONDITIONED SPACES.

WORKING ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THE BUILDING OR ADJACENT MATERIALS. THEY ARE AVAILABLE TO THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DESTROY ASBESTOS-CONTAINING MATERIALS PRIOR TO THE WORK BY A LICENSED ASBESTOS WORKER OR CONDUCT SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

Table with 3 columns: Mark, Description, Date. Includes ADDENDUM NO. 1 dated 04/24/17.

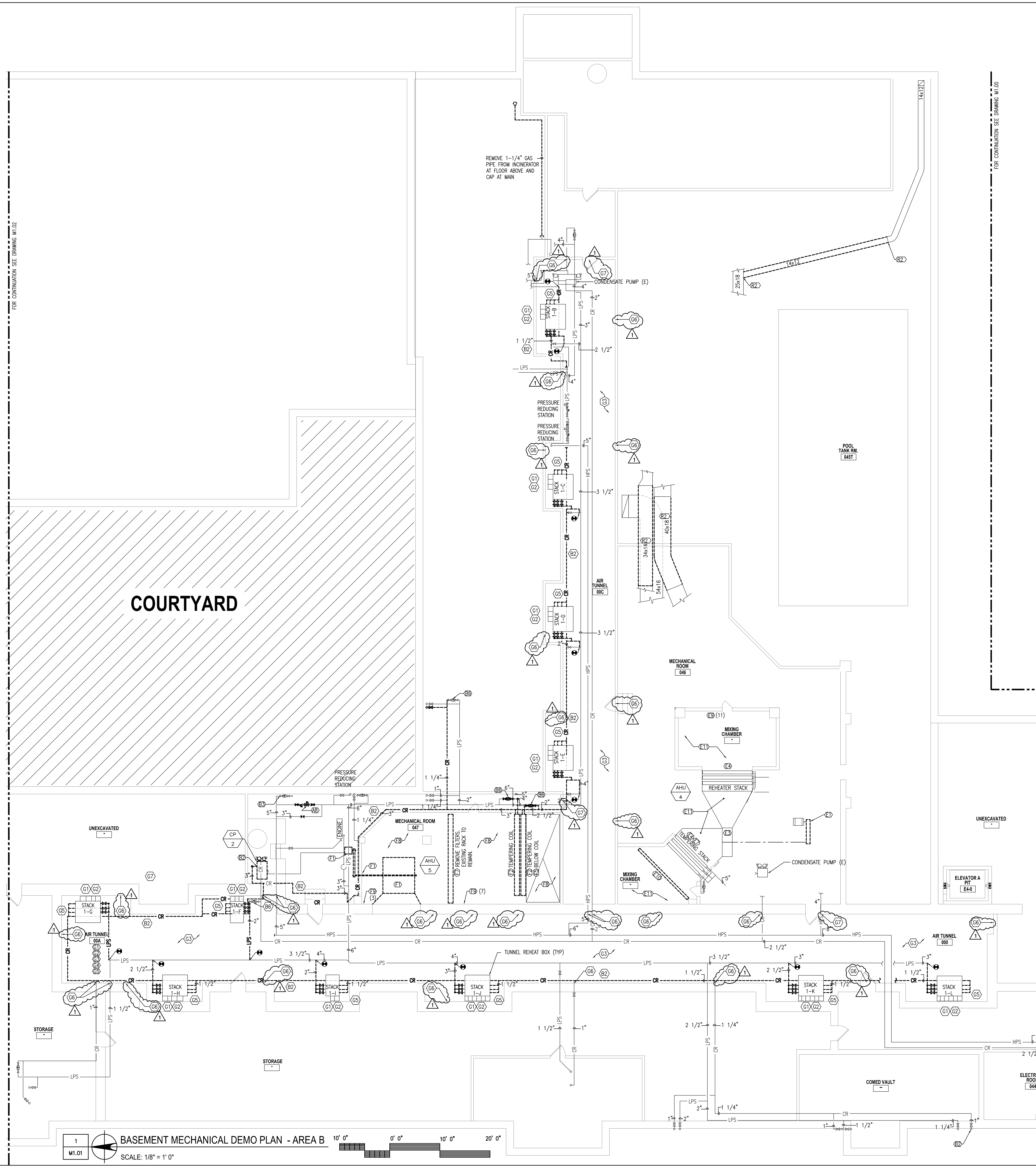
PBCC Project No.: 05085

SWWB Project No.: 16-289 (MCA# 4676)

PROJECT DEMOLITION AND NEW WORK KEY NOTES

Sheet

M0.01



FOR CONTINUATION SEE DRAWING M1.02

FOR CONTINUATION SEE DRAWING M1.03

COURTYARD

1 M1.01 BASEMENT MECHANICAL DEMO PLAN - AREA B
SCALE: 1/8" = 1' 0"



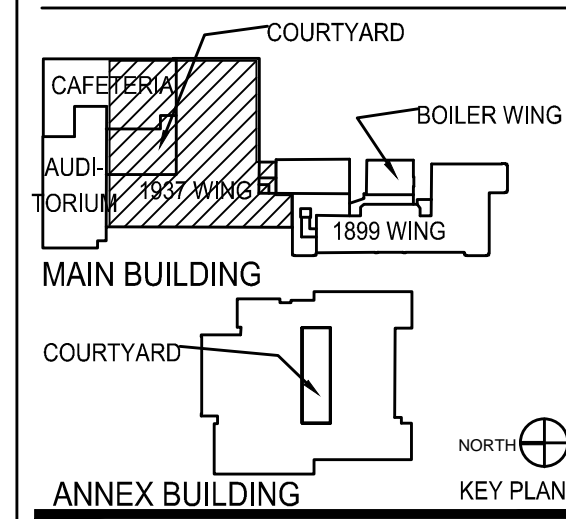
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Altamanu, Inc.
Chicago, Illinois
Landscape Architect



ANNEX BUILDING
WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS ABANDONMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THEY ARE A LICENSED ASBESTOS WORKER OR CONDUCT SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

Mark	Description	Date
OUT TO BID		04.12.17
ADDENDUM NO. 1		04.24.17

PBCC Project No.: 05085

SWWB Project No.: 16-289 (MCA# 4676)

BASEMENT MECHANICAL DEMO PLAN - AREA B

Sheet **M1.01**

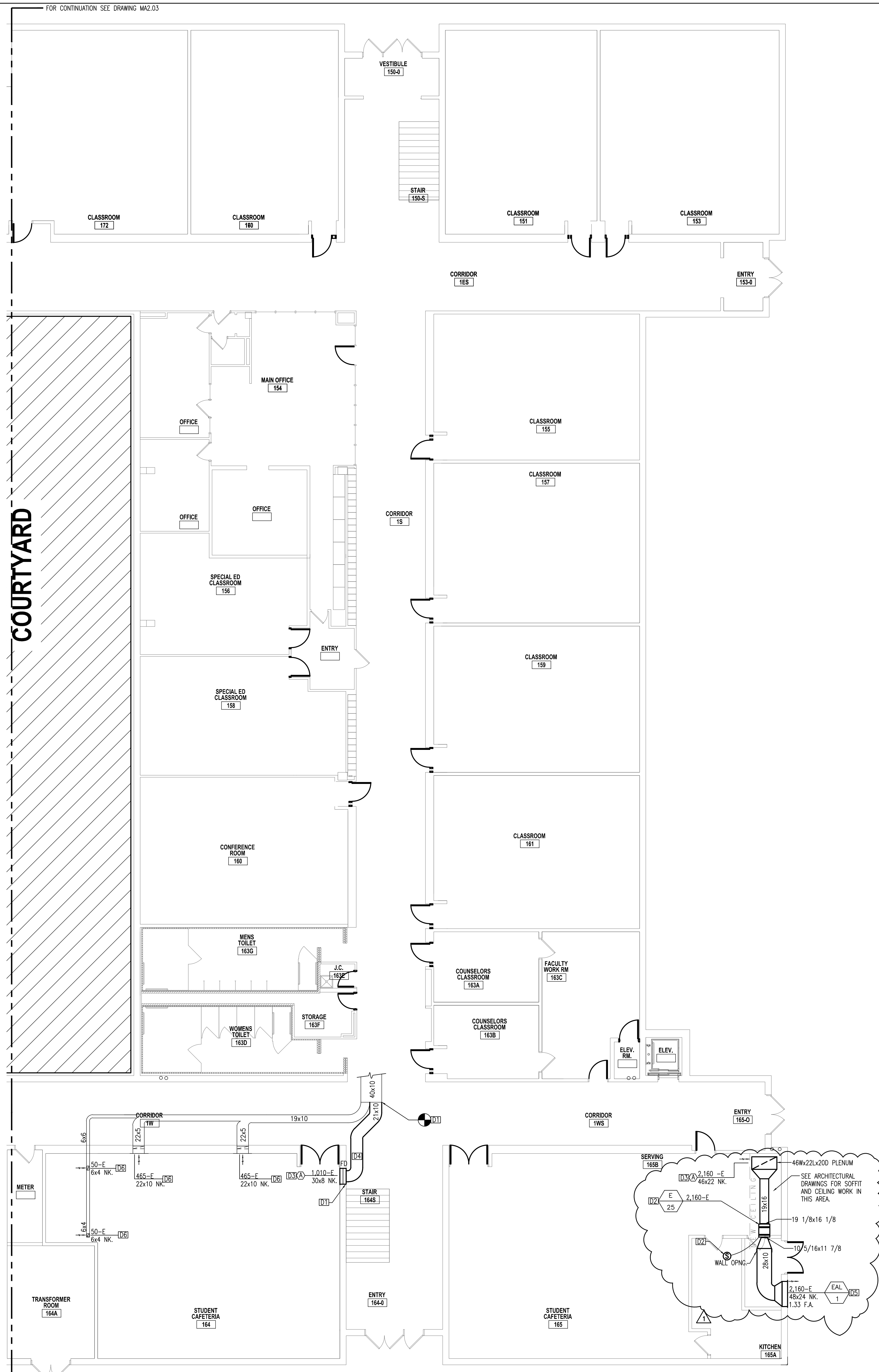
NEW WORK KEY NOTES

- A-100 BHP STEAM BOILERS (2) IN BASEMENT:**
- A1 REPLACE ALL TUBES.
 - A2 PRESSURE WASH THE WATERSIDE OF THE BOILER AND REMOVE ANY SCALE OR SOLID DEPOSITS ON THE TUBES AND SHELL. CLEAN OUT ALL SEDIMENT AND DEBRIS FROM THE BOTTOM OF THE BOILER.
 - A3 CLEAN ALL SCALE AND DEPOSITS FROM THE FIRESIDE OF THE BOILER'S TUBES, FURNACE SHEET AND TUBE SHEETS.
 - A4 REPAIR CRACKED REFRACTORY AROUND THE BURNER AND IN THE FLOOR AND SIDES.
 - A5 CALIBRATE THE MAIN PRESSURE GAUGE AND AUXILIARY PRESSURE GAUGES TO A MASTER GAUGE TRACEABLE TO THE NATIONAL STANDARD.
 - A6 CALIBRATE THE SAFETY RELIEF VALVES.
 - A7 CLEAN THE FLOAT BOWL OF THE LOW WATER FUEL CUT OFF DEVICE.
 - A8 REPAIR THE LEAK IN THE PACKING GLAND OF THE MAIN STEAM ISOLATION VALVE.
 - A9 REMOVE BOILER INSULATION. REMOVE DAMAGED FIRE BRICKS FROM BOILER.
 - A10 PROVIDE ALL GASKETS, SEALS, HAND HOLES, HARDWARE, ETC. AS REQUIRED TO PERFORM THE LISTED SERVICING. UPON COMPLETION PERFORM ALL TESTING IN ACCORDANCE WITH SPECIFICATION 23 01 51.

- B-AUXILIARIES:**
- B1 PROVIDE NEW GAS BOOSTER PUMP (CLOSEST TO BOILER).
 - B2 PROVIDE NEW CONDENSATE RETURN PUMP PACKAGE.
 - B3 PROVIDE NEW STEAM TRAPS IN CONJUNCTION WITH NEW CONDENSATE RETURN PIPING IN CRAWL SPACE BELOW FLOOR. ALSO PROVIDE NEW STEAM TRAPS IN UNIT VENTILATORS.

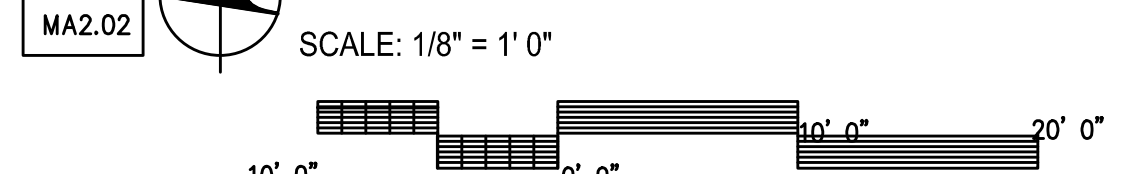
C-EXHAUST FANS, HOODS, GOOSENECKS, CONDENSING UNITS, STEAM VENTS (ONLY WHERE ROOF IS BEING REPLACED):
SEE NOTES ON ROOF PLANS

- D-CAFETERIA EXHAUST:**
- D1 PROVIDE NEW EXHAUST DUCTWORK AS SHOWN. NEW WALL OPENING TO BE COORDINATED WITH ARCHITECT.
 - D2 PROVIDE NEW EXHAUST FAN AND SUPPORTS. EXISTING CEILING TO BE LOWERED TO ACCOMMODATE NEW DUCT AND FAN. PROVIDE WALL SWITCH AT LOCATION SHOWN.
 - D3 PROVIDE NEW EXHAUST GRILLES IN EXISTING T-BAR CEILING WITH FIRE DAMPER. BALANCE TO C.F.M. LISTED. NEW WALL OPENING TO BE COORDINATED WITH ARCHITECT.
 - D4 PROVIDE NEW EXHAUST DUCTWORK, ROUTE AS HIGH AS POSSIBLE.
 - D5 PROVIDE NEW WALL OPENING AND PROVIDE NEW EXHAUST LOUVER. NEW WALL OPENING TO BE COORDINATED WITH ARCHITECT.
 - D6 EXISTING EXHAUST GRILLE, BALANCE TO NEW C.F.M.
 - D7 PROVIDE NEW WALL SWITCH AT LOCATION SHOWN.



COURTYARD

1 ANNEX 1ST FLOOR MECHANICAL NEW WORK PLAN - AREA A



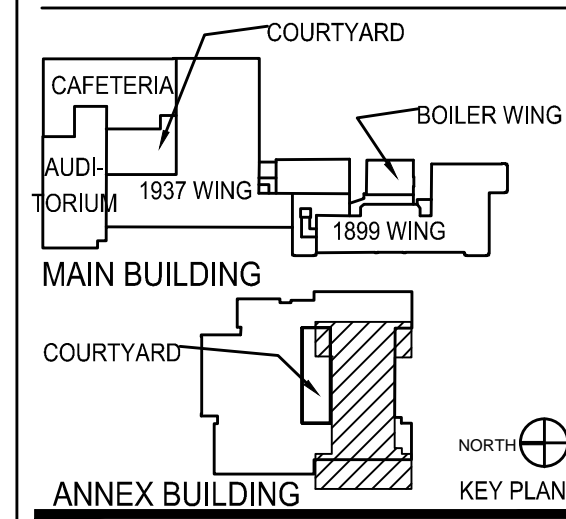
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Landscape Architect



ANNEX BUILDING

Mark	Description	Date
OUT TO BID		04.12.17
ADDENDUM NO. 1		04.24.17

PBCC Project No.: 05085

SWWB Project No.: 16-289 (MCA# 4676)

Title
ANNEX 1ST FLOOR MECHANICAL NEW WORK PLAN - AREA A

Sheet
MA2.02

INTAKE/EXHAUST EQUIPMENT SCHEDULE														
TAG	TYPE	LOCATION	SERVICE	CFM	MAX. S.P. IN/NG	THROAT AREA SQ. FT.	THROAT SIZE INCH	THROAT VELOCITY	LOUVER VELOCITY	DAMPER MOTORIZED	EXISTING DUCT SIZE INCH	CURB O.D. INCH	DATA INCH	REMARKS
											EXISTING	NEW		
LP 1	LOUVER PH	ROOF "G"	AHU-1/2 RELIEF	-	-	-	-	-	-	MOTORIZED	-	76.5	-	2 & 6
LP 2	LOUVER PH	ROOF "F"	AHU-1/2 RELIEF	-	-	-	-	-	-	MOTORIZED	-	55.0	-	2 & 6
LP 3	LOUVER PH	ROOF "F"	AHU-1/2 RELIEF	-	-	-	-	-	-	MOTORIZED	-	38.0	-	2 & 6
LP 4	LOUVER PH	ROOF "B"	AHU-5 RELIEF	-	-	-	-	-	-	MOTORIZED	-	54.0	-	2 & 6
LP 5	LOUVER PH	ROOF "F"	AHU-3	-	-	-	-	-	-	MOTORIZED	-	90x44	-	EXIST. TO REMAIN
LP 6	LOUVER PH	ROOF "B"	AHU-5 RELIEF	-	-	-	-	-	-	MOTORIZED	-	54.0	-	2 & 6
LP 7	LOUVER PH	ROOF "B"	AHU-5 RELIEF	-	-	-	-	-	-	MOTORIZED	-	54.0	-	2 & 6
LP 8	LOUVER PH	ROOF "B"	AHU-5 RELIEF	-	-	-	-	-	-	MOTORIZED	-	54.0	-	2 & 6
EG 1	GOOSENECK	ROOF "K"	TOILET	-	-	-	-	-	-	EXISTING	-	15.0	-	2 & 6
EG 2	GOOSENECK	ROOF "B"	-	-	-	-	-	-	-	EXISTING	-	52.0	-	2 & 6
EG 4	GOOSENECK	ROOF "B"	-	-	-	-	-	-	-	EXISTING	-	45.5	-	2 & 6
EG 5	GOOSENECK	ROOF "B"	-	-	-	-	-	-	-	EXISTING	-	31.5	-	2 & 6
EG 6	GOOSENECK	ROOF "C"	THEATRE CLASSROOM	50	-	.25	6x6	100	100	EXISTING	-	-	-	3
EV 1	LOUVER PH	ROOF "B"	GENERAL BUILDING VENTILATION	2,520	0.028	12.3	42x42	205	-	EXISTING	-	32.5	47.5x47.5	COOK TRE 53.75x53.75 171 1, 3, 4 & 5
EV 2	LOUVER PH	ROOF "B"	GENERAL BUILDING VENTILATION	2,520	0.028	12.3	42x42	205	-	EXISTING	-	32.5	47.5x47.5	COOK TRE 53.75x53.75 171 1, 3, 4 & 5
EV 3	LOUVER PH	ROOF "B"	GENERAL BUILDING VENTILATION	2,520	0.028	12.3	42x42	205	-	EXISTING	-	32.5	47.5x47.5	COOK TRE 53.75x53.75 171 1, 3, 4 & 5
EV 4	LOUVER PH	ROOF "B"	GENERAL BUILDING VENTILATION	2,520	0.028	12.3	42x42	205	-	EXISTING	-	40.0	47.5x47.5	COOK TRE 53.75x53.75 171 1, 3, 4 & 5
EV 5	LOUVER PH	ROOF "B"	GENERAL BUILDING VENTILATION	2,520	0.028	12.3	42x42	205	-	EXISTING	-	32.5	47.5x47.5	COOK TRE 53.75x53.75 171 1, 3, 4 & 5
IV 6	LOUVER PH	ROOF "B"	GENERAL BUILDING VENTILATION	2,855	0.028	12.3	42x42	230	-	EXISTING	-	40.0	47.5x47.5	COOK TRE 53.75x53.75 171 1, 3, 4 & 5
IV 7	LOUVER PH	ROOF "B"	GENERAL BUILDING VENTILATION	2,855	0.028	12.3	42x42	230	-	EXISTING	-	40.0	47.5x47.5	COOK TRE 53.75x53.75 171 1, 3, 4 & 5
EV 8	LOUVER PH	ROOF "B"	GENERAL BUILDING VENTILATION	2,520	0.028	12.3	42x42	205	-	EXISTING	-	40.0	47.5x47.5	COOK TRE 53.75x53.75 171 1, 3, 4 & 5
EV 9	LOUVER PH	ROOF "B"	GENERAL BUILDING VENTILATION	2,520	0.028	12.3	42x42	205	-	EXISTING	-	32.5	47.5x47.5	COOK TRE 53.75x53.75 171 1, 3, 4 & 5
EV 10	LOUVER PH	ROOF "B"	GENERAL BUILDING VENTILATION	2,520	0.028	12.3	42x42	205	-	EXISTING	-	32.0	47.5x47.5	COOK TRE 53.75x53.75 171 1, 3, 4 & 5
LP 9	LOUVER PH	ROOF "B"	E-3 EXHAUST	-	-	-	-	-	-	MOTORIZED	-	-	-	2 & 6

REMARKS:

- NEW LOUVERED PENTHOUSE TO REPLACE EXISTING INTAKE/RELIEF. SEE PLAN KEY NOTES.
- EXISTING INTAKE/RELIEF TO REMAIN. REMOVE AND REINSTALL DURING ROOFING WORK. SEE PLAN NOTES.
- PROVIDE NEW ROOF CURB TO EXTEND 14" ABOVE FINISHED ROOF. COORDINATE CURB AND HOOD SIZE TO ACCOMMODATE EXISTING DUCTWORK/ROOF OPENINGS.
- ALUMINUM INSECT SCREEN.
- TOP CAP INSULATION-TOP CAP SCREWED FOR QUICK REMOVAL.
- REPLACE EXISTING CURB WITH NEW 14" HIGH CURB ABOVE FINISHED ROOF AND SIZED TO ACCOMMODATE EXISTING HOOD BASE.

AIR COMPRESSOR SCHEDULE														
MARK	LOCATION	SYSTEM AND/OR SERVICE	QUANTITY	STANDARD AIR INTAKE SCFM	ON/OFF CYCLE			RECEIVER SIZE GAL	MOTOR			MANUFACTURER	MODEL	REMARKS
					ON	OFF	PSI		HP	VOLT	PHASE			
COMP-1	PUMP ROOM 37	BUILDING PNEUMATIC SYSTEM	1	24	50	70	80	7-1/2	240	3	700	ANEST MATA	OPT-2.5(H)-80	ALL

REMARKS:

1. AIR REFRESHMENT AIR DRYER (ANEST MATA AIR ENGINEERING #PAC33 NA MB W/ BE0031 DRAIN)
2. FLEX HOSE CONNECTION.
3. AUTOMATIC DRAIN VALVE.
4. NEOPRENE ISOLATION.
5. PREFILTER: #AM330C-NO4D
6. FINAL FILTER: AND330C-NO4D

DUPLIX CONDENSATE PUMP SCHEDULE													
TAG NO.	SYSTEM CAPACITY PER PUMP		DISCHARGE PRESSURE (PSIG)	MOTOR			RECEIVER CAPACITY (GAL)	ELECTRICAL			MANUFACTURER AND MODEL	REMARKS	
	(GPM)	(FT)		(QTY)	(HP)	(RPM)		VOLTS	PH	HZ			
CP-1	22	250	15	2	1/2	2	3500	25	240	3	60	DOMESTIC PUMPS 25VCD-3	1, 2, 3 & 4
CP-2	22	210	20	2	1/2	2	3500	23	208	3	60	DOMESTIC PUMPS 23CB22-20	1, 2, & 3

REMARKS:

1. DUPLIX PUMPS AND MOTORS.
2. TEMPERATURE INDICATION.
3. SIGHT GLASS.
4. VACUUM PUMP, 17 CFM, 5.5 IN. HG. PER PUMP.

FAN SCHEDULE																							
TAG	LOCATION	SERVICE	CFM	E.S.P. IN WC	FAN DATA				MOTOR DATA				EXISTING		NEW		UNIT WT LBS.	EXISTING SQUARE CURB	SOUND DATA		REMARKS		
					FAN TYPE	CLASS	RPM	DRIVE	BHP	HP	VOLT	PH	HZ	MANUFACTURER	MODEL	MANUFACTURER			MODEL	MAX SONES		MAX dB	
EF 1	ROOF "G"	EXISTING	3,500	1-1/4	--	--	--	--	--	--	--	--	--	GREENHECK	SWB-15	--	--	--	25'x25'	--	--	2 & 6	
FHE 1	ROOF "G"	EXISTING	1,250	3/4	--	--	--	--	--	--	--	--	--	GREENHECK	SWB-12	--	--	--	22'x22'	--	--	2 & 6	
FE 1	ROOF "G"	EXISTING	1,250	3/4	--	--	--	--	--	--	--	--	--	TWIN CITY	TFE-SW	--	--	--	23'x23'	--	--	2 & 6	
FE 2	ROOF "G"	EXISTING	1,250	3/4	--	--	--	--	--	--	--	--	--	CARNES	VUBK-12MA1A	--	--	--	22.5'x22.5'	--	--	2 & 6	
LE 2	ROOF "G"	EXISTING	3,500	1-1/4	--	--	--	--	--	--	--	--	--	GREENHECK	SWB-12-7	--	--	--	17'x17'	--	--	2 & 6	
LE 1	ROOF "F"	EXISTING	3,500	1-1/4	--	--	--	--	--	--	--	--	--	TWIN CITY	TFE-SW	--	--	--	19.5'x19.5'	--	--	2 & 6	
FE 3	ROOF "F"	EXISTING	3,500	1-1/4	--	--	--	--	--	--	--	--	--	GREENHECK	SWB-15-10	--	--	--	23'x23'	--	--	2 & 6	
EF 2	ROOF "F"	EXISTING	1,250	3/4	--	--	--	--	--	--	--	--	--	TWIN CITY	TFE-SW	--	--	--	23'x23'	--	--	2 & 6	
FHE 1	ROOF "F"	EXISTING	1,250	3/4	--	--	--	--	--	--	--	--	--	TWIN CITY	TFE-SW	--	--	--	19.5'x19.5'	--	--	2 & 6	
TEF 5	ROOF "L"	EXISTING	3,596	1/2	--	--	--	--	3/4	208	3	60	GREENHECK	GB-180-7	--	--	--	29.5'x29.5'	--	--	2 & 6		
EF 3	ROOF "B"	SEE VENTILATION SCHEDULE	280	3/4	CENT.	1	1,702	DIRECT	085	1/8	110	1	60	PENN	AW-35	COOK	ACED-EC 100C17DEC	47	19.5' x 19.5'	7.4	55	1, 3, 4 & 15	
EF 4	ROOF "B"	SEE VENTILATION SCHEDULE	50	3/4	CENT.	1	1,192	DIRECT	3W	1/6	110	1	60	--	--	COOK	ACED EC 70C17DEC	39	23.5' x 23.5'	1.7	37	1, 3, 4 & 15	
E 4	ROOF "C"	SEE VENTILATION SCHEDULE	13,850	1 1/2	CENT. BLOWER	1	427	BELT	4.69	5	208	3	60	--	H360	COOK	490 CPA-A	1,419	36" x 68"	---	65	1 & 5	
E 17	ROOF "C"	SEE VENTILATION SCHEDULE	3,200	1/2	CENT.	1	564	BELT	.568	3/4	208	3	60	--	272BCR	COOK	ACEB 245C6B	192	42" x 42"	6.9	54	1, 3, 4 & 5	
E 18	ROOF "C"	SEE VENTILATION SCHEDULE	2,550	1/2	CENT.	1	665	BELT	.397	1/2	208	3	60	--	272BCR	COOK	ACEB 210C5B	166	40.5" x 40.5"	6.9	54	1, 3, 4 & 5	
E 19	ROOF "C"	SEE VENTILATION SCHEDULE	1,750	1/2	CENT.	1	1,074	DIRECT	268	1/3	110	1	60	--	221BCR	COOK	ACED 150C10D	68	32" x 32"	9.7	59	1, 3, 4, 5 & 15	
E 20	ROOF "C"	SEE VENTILATION SCHEDULE	1,000	1/2	CENT.	1	1,255	DIRECT	133	1/6	110	1	60	--	161BCR	COOK	ACED VF 120C17D	68	28.5" x 28.5"	8.3	57	1, 3, 4, 5 & 15	
E 21	ROOF "C"	SEE VENTILATION SCHEDULE	500	1/2	CENT.	1	1,411	DIRECT	084	1/8	110	1	60	--	101CR	COOK	ACED VF 101C17D	61	22" x 22"	7.7	56	1, 3, 4, 5 & 15	
E 22	ROOF "D"	SEE VENTILATION SCHEDULE	100	1/2	CENT.	1	1,357	DIRECT	23W	1/6	110	1	60	--	71CR	COOK	ACED EC 90C17DEC	44	20" x 20"	4.8	48	1, 3, 4 & 15	
E 23	ROOF "C"	SEE VENTILATION SCHEDULE	625	1/2	CENT.	1	1,697	DIRECT	142W	1/4	110	1	60	--	--	COOK	ACED EC 100C17DEC	45	---	9.2	59	8 - 12, 15	
CF 1	CEILING	SEE VENTILATION SCHEDULE	50	1/4	CENT.	1	1,233	DIRECT	---	19W	110	1	60	--	--	COOK	GC-242	21	---	.6	28	10 & 11	
AHU 2	BASEMENT	SUPPLY	30,250	1.75	SWSI	1	550	BELT	12.8	20	208	3	60	--	--	COOK	490CA-SWSI	3500	---	---	72	1, 7, 8 & 14	
AHU 1	BASEMENT	SUPPLY	45,610	---	SWSI (2)OUTLET	---	---	BELT	---	30	208	3	60	--	--	---	---	---	---	---	---	---	8, 15 & 18
AHU 5A	BASEMENT	SUPPLY	25,350	1.75	SWSI	II	753	BELT	12.6	15	208	3	60	--	--	COOK	402CA SWS1	2500	---	---	76	1, 7, 8, 14 & 17	
AHU 5B	BASEMENT	SUPPLY	25,350	1.75	SWSI	II	753	BELT	12.6	15	208	3	60	--	--	COOK	402CA SWS1	2500	---	---	76	1, 7, 8, 14 & 17	
E 3	PENTHOUSE	EXISTING EXHAUST	33,880	7/8	UTILITY	---	---	BELT	---	10	208	3	60	--	--	---	---	---	---	---	---	---	15 & 16

REMARKS:

1. NEW FAN TO REPLACE EXISTING. SEE PLAN KEY NOTES.
2. EXISTING FAN TO REMAIN. REMOVE AND REINSTALL DURING ROOFING WORK. SEE PLAN KEY NOTES.
3. STD. DISCONNECT, HINGED SUB BASE & BELT TENSIONER.
4. FAN WITH 14" HIGH CURB ABOVE ROOF. COORDINATE CURBS SIZE TO ACCOMMODATE EXISTING DUCTWORK/ROOF OPENING. PROVIDE CURB ADAPTOR AS REQUIRED.
5. WEATHER PROOF ENCLOSURE, VIBRATION ISOLATORS, EPOXY COATING, DRAIN. 14" HIGH CURBS ABOVE ROOF. TOP HORIZONTAL DISCHARGE.
6. REPLACE EXISTING CURB WITH NEW 14" HIGH CURBS ABOVE FINISHED ROOF & SIZED TO ACCOMMODATE EXISTING FAN BASE.
7. AIRFOIL FAN, VIBRATION ISOLATORS, VARIABLE FREQUENCY DRIVE.
8. TFC MOTOR WITH VARIABLE FREQUENCY DRIVE (VFD).
9. NEW FAN AND NEW ROOF OPENING.
10. GRAVITY BACKDRAFT DAMPER.
11. FAN SWITCH, DISCONNECT AND BIRD SCREEN.
12. FAN TIMER CONTROL. SEE PLAN. (1 HOUR TIMER).
13. FAN TIMER CONTROL. SEE SEQUENCE (12 HOUR TIMER).
14. ARRANGEMENT 3 TOP HORIZONTAL WITH MOUNTING BASE AND SPRING ISOLATORS. FACTORY SPLITS FOR DISASSEMBLY AND DELIVERY. CONTRACTOR SHALL RE-ASSEMBLE WHEN LOCATED IN FINAL POSITION. PROVIDE WITH OSHA BELT GUARD, INLET SAFETY GUARD FLANGED OUTLET. COORDINATE CW/CCW WITH PLANS. (MAX DELIVERY OPENING AVAILABLE: AHU-2=48"Wx84"H, AHU-5=40"Wx84"H).
15. REMOVE AND REPLACE EXISTING MOTOR, MOTOR PULLEY AND BELTS. EXISTING FAN TO REMAIN. DISASSEMBLE AND CLEAN FAN WHEEL AND HOUSING. CLEAN BEARINGS AND RE-LUBRICATE. RE-BALANCE FAN TO ACHIEVE SCHEDULED AIRFLOW. REPLACE SHEAVES AS REQUIRED. DO NOT OVERLOAD MOTOR.
16. 1160 RPM SINGLE SPEED.
17. ALTERNATE M1. REFER TO PROJECT MANUAL.
18. ALTERNATE M2. REFER TO PROJECT MANUAL.
19. INTEGRAL SPEED CONTROL (FOR BALANCING)

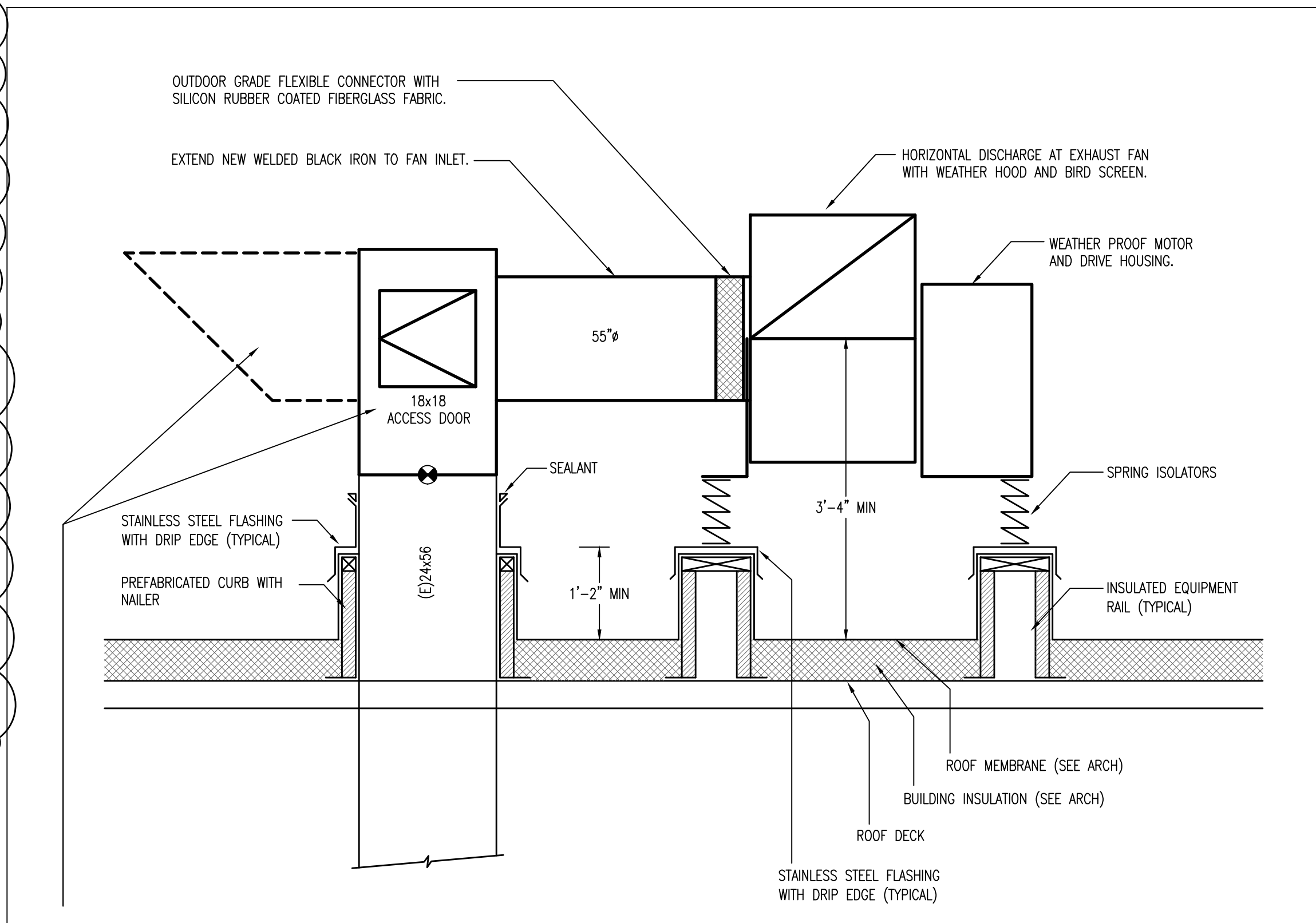
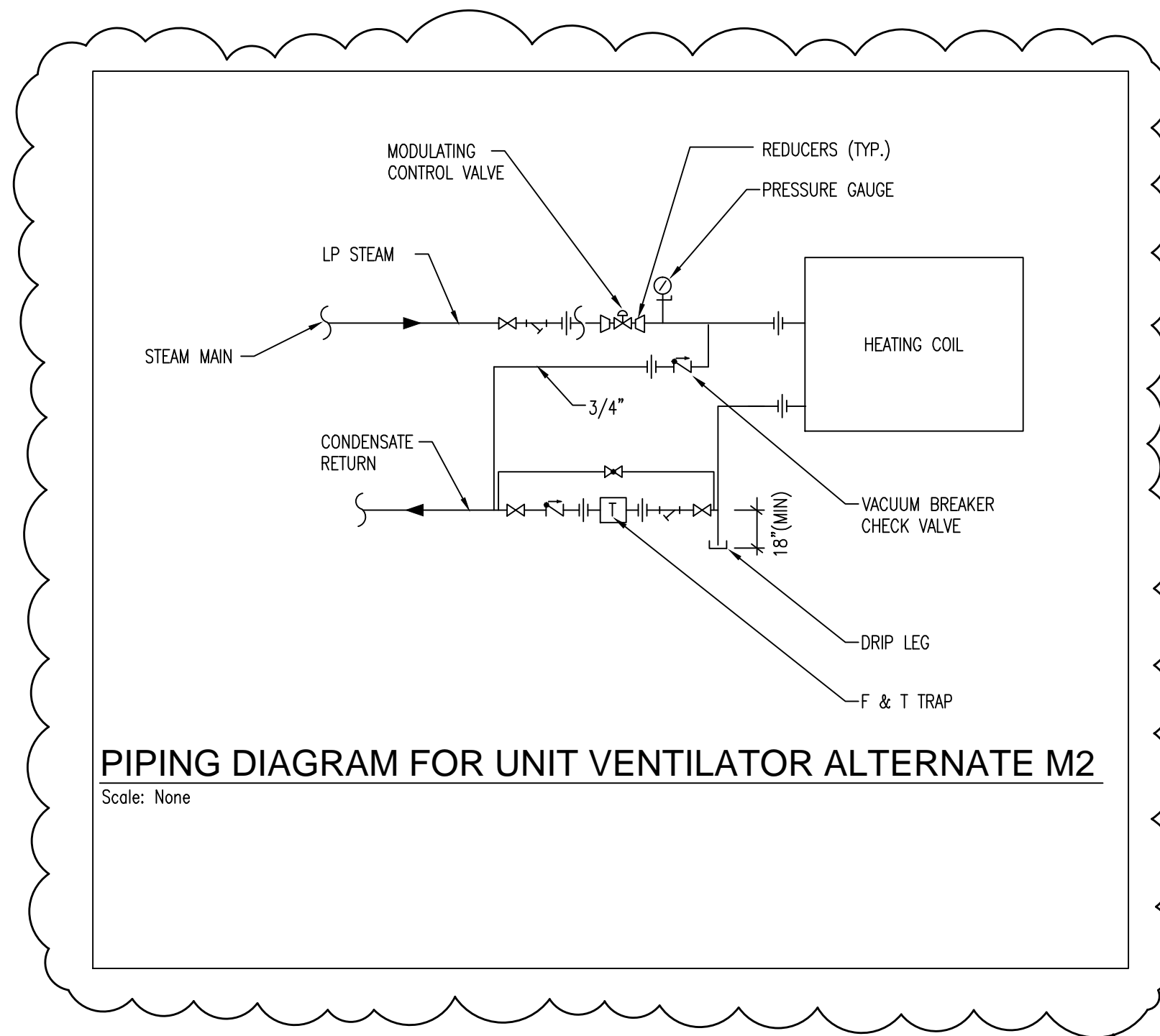
ANY INDICATION OF A SPECIFIC HORSEPOWER, VOLTAGE/PHASE SHALL NOT RELIEVE THE RESPONSIBILITY OF THIS CONTRACTOR TO VERIFY THE EXISTING HORSEPOWER, EXISTING VOLTAGE/PHASE PRIOR TO SUBMITTING SHOP DRAWINGS FOR THE NEW EXHAUST FAN AND PRIOR TO DOING ANY WORK. CONTRACTOR SHALL SUBMIT A HORSEPOWER, VOLTAGE/PHASE COORDINATION FORM TO THE ENGINEER PRIOR TO SUBMITTING SHOP DRAWINGS.

CONTROL DAMPER SCHEDULE											
TAG	EQUIPMENT TAG	TYPE	DESIGN FLOW RATE (CFM)	SIZE	CONTROL DATA			REMARKS			
					HP	VOLTS	FAIL POSITION				
D-A	LP-1	OPPOSED	22,800	60x56	PNEUMATIC	--	CLOSED	AHU-1 RELIEF			
D-B	LP-2	OPPOSED	11,400	46x46	PNEUMATIC	--	CLOSED	AHU-1 RELIEF			
D-C	LP-3	OPPOSED	11,400	40x40	PNEUMATIC	--	CLOSED	AHU-1/AHU-2 RELIEF			
D-D	LP-4	OPPOSED	16,900	54x54	PNEUMATIC	120	CLOSED	AHU-5 RELIEF			
D-E	--	OPPOSED	18,825	60x56	PNEUMATIC	--	CLOSED	AHU-2 RELIEF			
D-F	LP-6	OPPOSED	22,170	54x54	PNEUMATIC	--	CLOSED	AHU-4 RELIEF			
D-G	LP-7	OPPOSED	16,900	54x54	PNEUMATIC	120	CLOSED	AHU-5 RELIEF			
D-H	LP-8	OPPOSED	16,900	54x54	PNEUMATIC	120	CLOSED	AHU-5 RELIEF			
D-K	P-2	OPPOSED	50,700	64x69	PNEUMATIC	--	CLOSED	AHU-5 O.A., QUANTITY 2			
D-1A	AHU-1	PARALLEL	29,810	62x24	PNEUMATIC	--	CLOSED	PH BYPASS, QUANTITY 2			
D-1B	AHU-1	PARALLEL	15,800	62x32	PNEUMATIC	--	CLOSED	PH BYPASS			
D-1C	AHU-1	OPPOSED	22,800	58x70	PNEUMATIC	--	CLOSED	O.A.			
D-1D	AHU-1	OPPOSED	22,800	58x70	PNEUMATIC	--	CLOSED	O.A.			
D-1E	AHU-1	PARALLEL	45,610	48x44	PNEUMATIC	--	OPEN	R.A.			
D-1F	AHU-1	OPPOSED	22,800	36x30	PNEUMATIC	--	OPEN	AHU-1 CORRIDOR RELIEF			

NOTE:

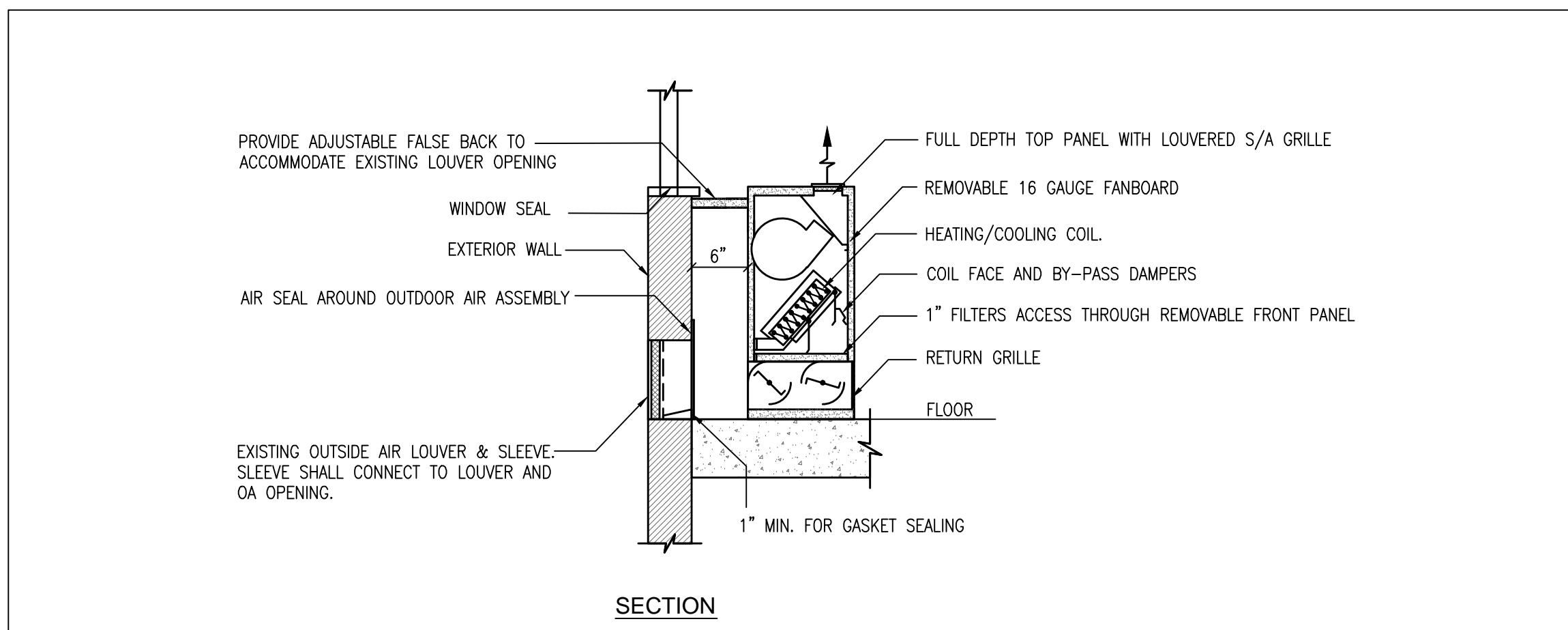
1. COORDINATE CONTROL TYPE AND VOLTAGE WITH EXISTING ON SITE.
2. FIELD VERIFY ALL DAMPER SIZES.

CONTROL DAMPER SCHEDULE											
TAG	EQUIPMENT TAG	TYPE	DESIGN FLOW RATE (CFM)	SIZE	CONTROL DATA			REMARKS			
					HP	VOL					



REMOVE AND REPLACE EXISTING PLENUM AND FIRE BYPASS WITH NEW. PRIME AND PAINT ALL EXPOSED KITCHEN EXHAUST DUCTWORK (NEW AND EXISTING) WITH HIGH TEMPERATURE ENAMEL.

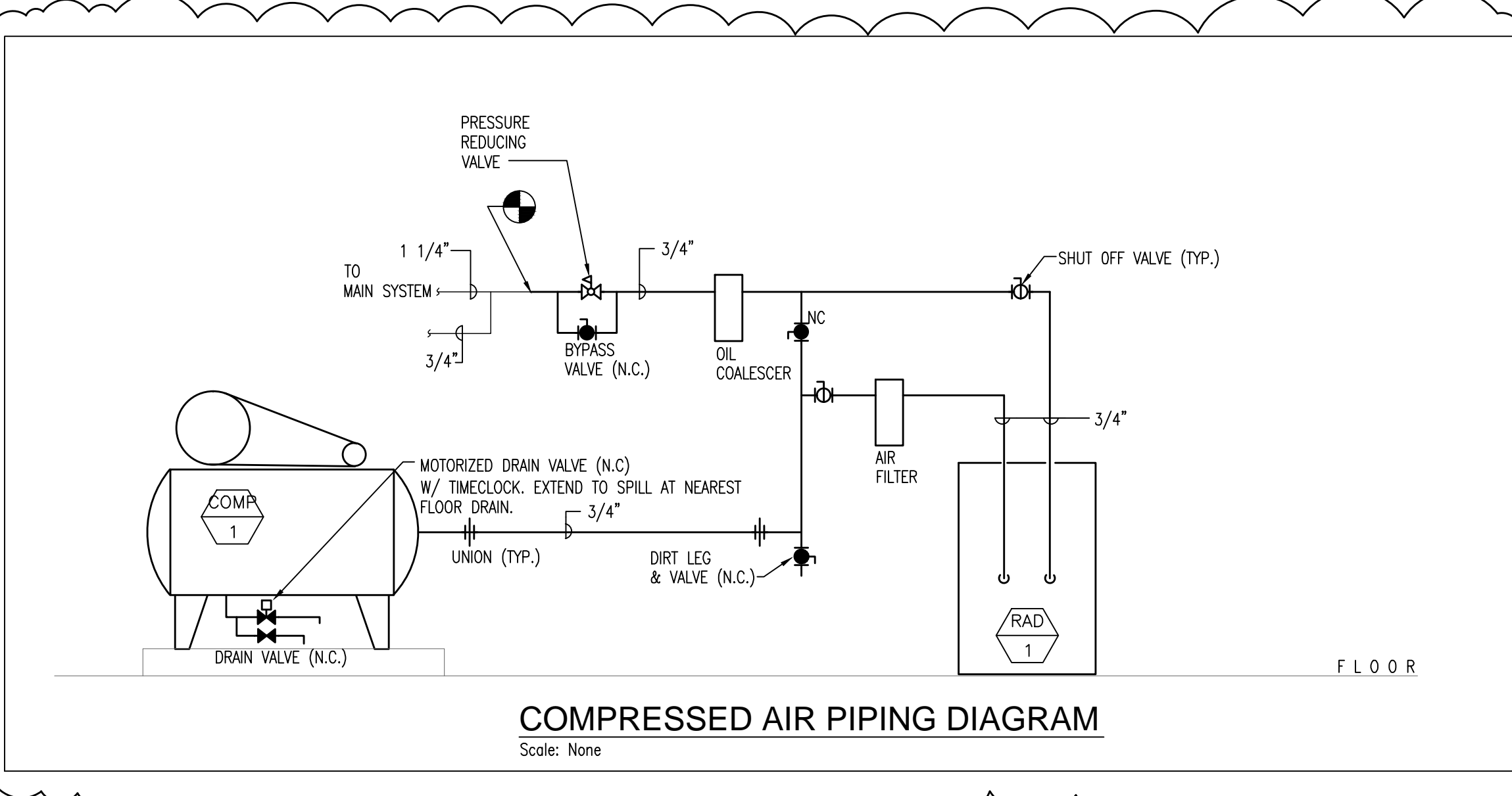
EXHAUST FAN E-4 DETAIL
Scale: None



TYPICAL SCHEMATIC UNIT VENTILATOR DETAIL ALTERNATE M2
Scale: None

DIFFUSER, GRILLE AND REGISTER SCHEDULE										
TAG	MANUFACTURER	MODEL	TYPE	FACE SIZE	NECK SIZE	SERVICE	MATERIAL	BORDER TYPE	MAX. N.C.	NOTES
Ⓐ	TITUS	300RL	GRILLE	1 3/4" LARGER	SEE DRAWING	SUPPLY	STEEL	SURFACE	25	1, 2
Ⓑ	TITUS	350RL	GRILLE	1 3/4" LARGER	SEE DRAWING	RETURN/EXHAUST	STEEL	SURFACE	25	1, 2

NOTES/OPTIONS:
1. FINISH AND OR COLOR AS SELECTED BY ARCHITECT.
2. PROVIDE OPPOSED BLADE DAMPER.



COMPRESSED AIR PIPING DIAGRAM
Scale: None

VENTILATION SCHEDULE															
ROOM NO.	ROOM NAME	CATEGORY	FLOOR AREA SQ. FT.	ORDINANCE REQUIREMENTS				ACTUAL PROVIDED				EQUIPMENT		REMARKS	
				NATURAL LIGHT AND VENTILATION	MECHANICAL VENTILATION	(RO) RELIEF OPENING REQ.	NATURAL LIGHT AND VENTILATION	MECHANICAL VENTILATION	TAG OF EQUIPMENT SUPPLYING AIR TO THE ROOM	TAG OF EQUIPMENT EXHAUSTING AIR FROM THE ROOM					
FIRST FLOOR															
100B	TOILET	TOILET	18	---	---	0	50	---	---	---	0	50	EXISTING	E-20	
108B	TOILET	TOILET	97	---	---	0	200	---	---	---	0	200	EXISTING	E-20	
106A	TOILET	TOILET	153	---	---	0	305	---	---	---	0	305	EXISTING	E-20	
140	MECH. RM.	INACTIVE	145	---	---	0	0	---	---	---	0	0	EXISTING	E-20	
143	TOILET	TOILET	18	---	---	0	50	---	---	---	0	50	EXISTING	E-20	
144	MENS	TOILET	23	---	---	0	50	---	---	---	0	50	EXISTING	E-20	
147	LOCKER	LOCKER	30	---	---	0	50	---	---	---	0	50	EXISTING	E-20	
130	JANITOR	JANITOR	20	---	---	0	50	---	---	---	0	50	EXISTING	E-20	
133A	SERVING RM.	DINING NO. CKG.	960	---	---	1,440	1,440	---	---	---	1,440	2,550	EXISTING	E-18	
127A	DISHWASHING	KITCHEN	127	---	---	155	510	---	---	---	155	1,750	EXISTING	E-19	
133B	KITCHEN	KITCHEN	1,125	---	---	1,350	4,500	---	---	---	1,350	13,850	EXISTING	E-4	
146	DISHWASHING	KITCHEN	96	---	---	115	385	---	---	---	115	500	EXISTING	E-21	
103C	JANITOR	JANITOR	42	---	---	0	85	---	---	---	0	90	EXISTING	EF-3	
103G	JANITOR	JANITOR	41	---	---	0	85	---	---	---	0	90	EXISTING	EF-3	
108	THEATRE CLASSROOM	CLASSROOM	1,230	98.4	49.2	1,845	920	NR	NR	---	730	1,125	625	UNIT VENT	E-17, E-23
122	MUSIC ROOM	CLASSROOM	725	---	---	1,085	545	---	---	---	1,085	545	EXISTING	E-17	
110	CHOIR ROOM	MUSIC	1,075	---	---	1,620	810	---	---	---	1,620	810	EXISTING	E-17	
108A	REHEARSAL	MUSIC	34	---	---	50	50	---	---	---	50	260	EXISTING	E-17	
108B	REHEARSAL	MUSIC	32	---	---	50	50	---	---	---	50	260	EXISTING	E-17	
108C	REHEARSAL	MUSIC	31	---	---	50	50	---	---	---	50	260	EXISTING	E-17	
108D	REHEARSAL	MUSIC	37	---	---	50	50	---	---	---	50	260	EXISTING	E-17	
108E	REHEARSAL	MUSIC	36	---	---	50	50	---	---	---	50	260	EXISTING	E-17	
108F	REHEARSAL	MUSIC	32	---	---	50	50	---	---	---	50	260	EXISTING	E-17	
108G	REHEARSAL	MUSIC	32	---	---	50	50	---	---	---	50	285	EXISTING	E-17	
100B	TOILET	TOILET	27	---	---	50	50	---	---	---	50	50	EXISTING	EF-4	
SECOND FLOOR															
250G	JANITOR	JANITOR	23	---	---	0	50	---	---	---	0	50	EXISTING	EF-3	
THIRD FLOOR															
305C	JANITOR	JANITOR	24	---	---	0	50	---	---	---	0	50	EXISTING	EF-3	

CHICAGO BUILDING CODE - TABLE 18-28-403.3
SECTION 18-28-403.1 - NOT LESS THAN 33 1/3 % OF CODE REQUIRED AIR SHALL BE TAKEN FROM OUT OF DOORS.

VENTILATION SCHEDULE (FOR SUPPLY FAN REPLACEMENT)															
ROOM NO.	ROOM NAME	CATEGORY	FLOOR AREA SQ. FT.	ORDINANCE REQUIREMENTS				ACTUAL PROVIDED				EQUIPMENT		REMARKS	
				NATURAL LIGHT AND VENTILATION	MECHANICAL VENTILATION	(RO) RELIEF OPENING REQ.	NATURAL LIGHT AND VENTILATION	MECHANICAL VENTILATION	TAG OF EQUIPMENT SUPPLYING AIR TO THE ROOM	TAG OF EQUIPMENT EXHAUSTING AIR FROM THE ROOM					
---	CLASSROOM	CLASSROOM	7,428	---	---	11,145	5,570	---	---	---	---	---	---	AHU-2	
---	LIBRARY	LIBRARY	3,206	---	---	3,850	1,925	---	---	---	---	---	---	AHU-2	
---	OFFICE	OFFICE	4,168	---	---	2,500	1,250	---	---	---	---	---	---	AHU-2	
---	WORK AREA	WORK AREA	150	---	---	180	180	---	---	---	---	---	---	AHU-2	
---	WEIGHT ROOM	FITNESS	800	---	---	1600	1200	---	---	---	---	---	---	AHU-2	
---	COMMON	COMMON	18,640	---	---	NR	NR	---	---	---	---	---	---	---	
TOTAL			34,392	---	---	19,275	10,125	---	---	---	30,225	EXISTING	---	---	
REMARKS:															
---	CLASSROOM	CLASSROOM	19,584	---	---	29,380	14,690	---	---	---	---	---	---	AHU-5	
---	OFFICE	OFFICE	4,553	---	---	2,735	1,365	---	---	---	---	---	---	AHU-5	
---	COMMON	COMMON	37,536	---	---	NR	NR	---	---	---	---	---	---	---	
TOTAL			61,673	---	---	32,115	16,055	---	---	---	50,700	EXISTING	---	---	

SUPPLY FANS FOR AHU-2 AND AHU-5 ARE BEING REPLACED WITH NEW FANS OF EQUAL CAPACITY TO THE EXISTING FANS. NO CHANGES ARE BEING MADE TO THE INDIVIDUAL ROOM DISTRIBUTION UNLESS SPECIFICALLY NOTED ELSE WHERE IN THE DRAWINGS, INCLUDING DETAILED ROOM VENTILATION SCHEDULES. THE SCHEDULE ABOVE IS TO DEMONSTRATE CODE COMPLIANCE FOR THE REPLACEMENT FAN CAPACITIES.

LOUVER SCHEDULE													
TAG	LOCATION	SERVING SYSTEM	SERVICE	CFM	MIN FREE AREA SQ.FT.	FREE AREA%	MAX FPM THRU FREE AREA	PD IN W.C.	LOUVER DIMENSION	MANUFACTURER	MODEL	REMARKS	
OAL-1	MECH RM 234A	S-3	O.A.	30,000	34.0	53	882	0.15	112 x 84 x 4	INDUSTRIAL LOUVERS	458XP	SEE BELOW	
OAL-2	MECH RM 234A	S-4	O.A.	15,000	18.6	53	810	0.125	120 x 42 x 4	INDUSTRIAL LOUVERS	458XP	SEE BELOW	
OAL-3	MECH RM 234A	S-5	O.A.	3,800	3.84	64	990	0.2	60 x 24 x 4	INDUSTRIAL LOUVERS	458XP	SEE BELOW	
OAL-4	BSMT. FAN ROOM	AHU-1	O.A.	22,800	15.8	56	1443	-	58 x 70 x 4	INDUSTRIAL LOUVERS	458XP	SEE BELOW	
OAL-5	BSMT. FAN ROOM	AHU-1	O.A.	22,800	15.8	56	1443	-	58 x 70 x 4	INDUSTRIAL LOUVERS	458XP	SEE BELOW	
OAL-6	BSMT. FAN ROOM	AHU-2	O.A.	15,113	16.5	53	916	0.15	58 x 76 x 4	INDUSTRIAL LOUVERS	458XP	SEE BELOW	
OAL-7	BSMT. FAN ROOM	AHU-2	O.A.	15,113	16.5	53	916	0.15	58 x 76 x 4	INDUSTRIAL LOUVERS	458XP	SEE BELOW	

REMARKS:
1. COORDINATE FINAL SIZE WITH WALL OPENING. SECURE TO STRUCTURE AND SEAL WEATHER TIGHT. PROVIDE INSULATED BLANK-OFF AT ANY UNUSED LOUVER AREA.



LINCOLN PARK HIGH SCHOOL RENOVATION
2001 N. ORCHARD STREET
CHICAGO, ILLINOIS 60614
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMMANUEL



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Chicago, Illinois
Mechanical, Electrical, Plumbing and FP Engineer

Altamano, Inc.
Chicago, Illinois
Landscape Architect

WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. ANY ASBESTOS WORK SHALL BE PERFORMED IN THE SCHOOL OR REPAIR WORK SHALL BE PERFORMED BY A LICENSED ASBESTOS WORKER OR CONTRACTOR. SUCH WORK IS ACCORDING WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

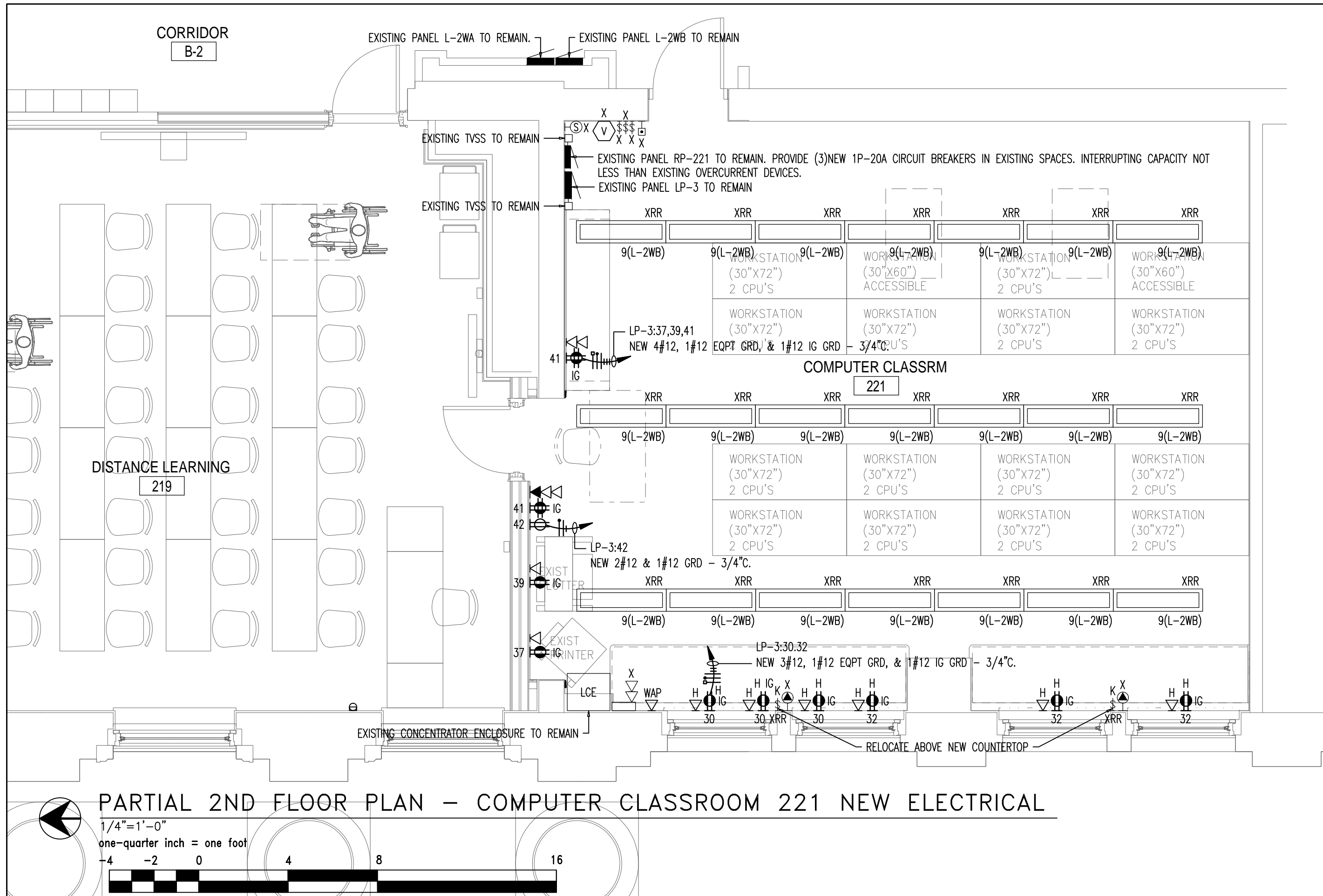
Mark	Description	Date
OUT TO BID		04.12.17
⚠	ADDENDUM NO. 1	04.24.17

PBCC Project No.: 05085

SWWB Project No.: 16-289 (MCA# 4676)
Title

MECHANICAL SCHEDULES AND DETAILS

Sheet
M6.02



LINCOLN PARK HIGH SCHOOL
 MAJOR CAPITAL RENOVATION
 2001 N. ORCHARD ST.
 CHICAGO, ILLINOIS 60614
 PBCC PROJ. NO. : 05085

COMPUTER CLASSROOM 221

Drawn By: MCA
 Checked By: MCA

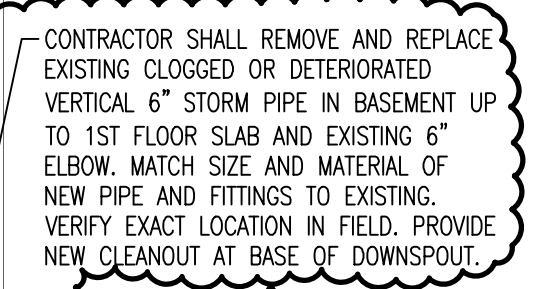
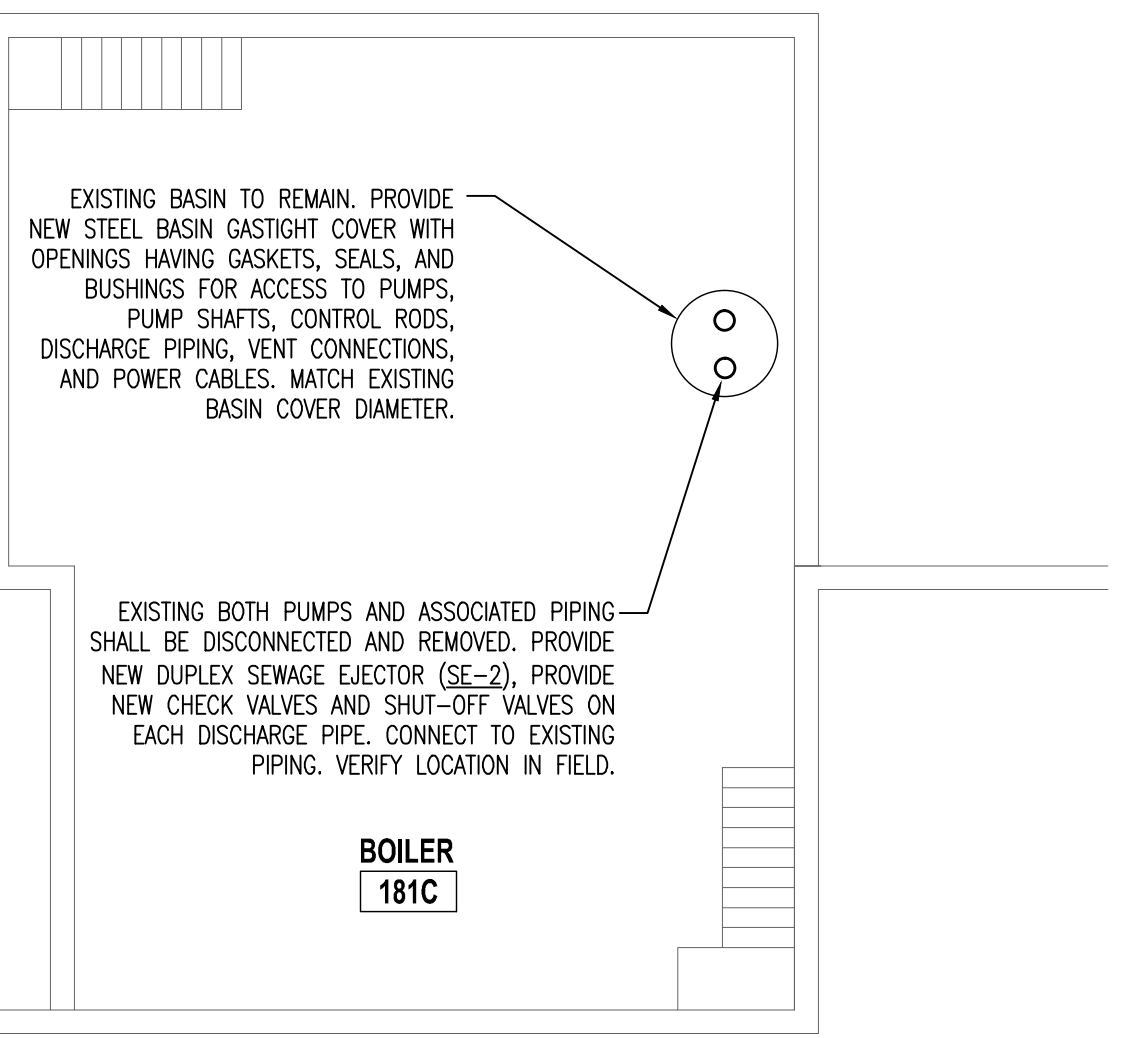
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Project #: 16-289
 Dwg File: MCA#4676

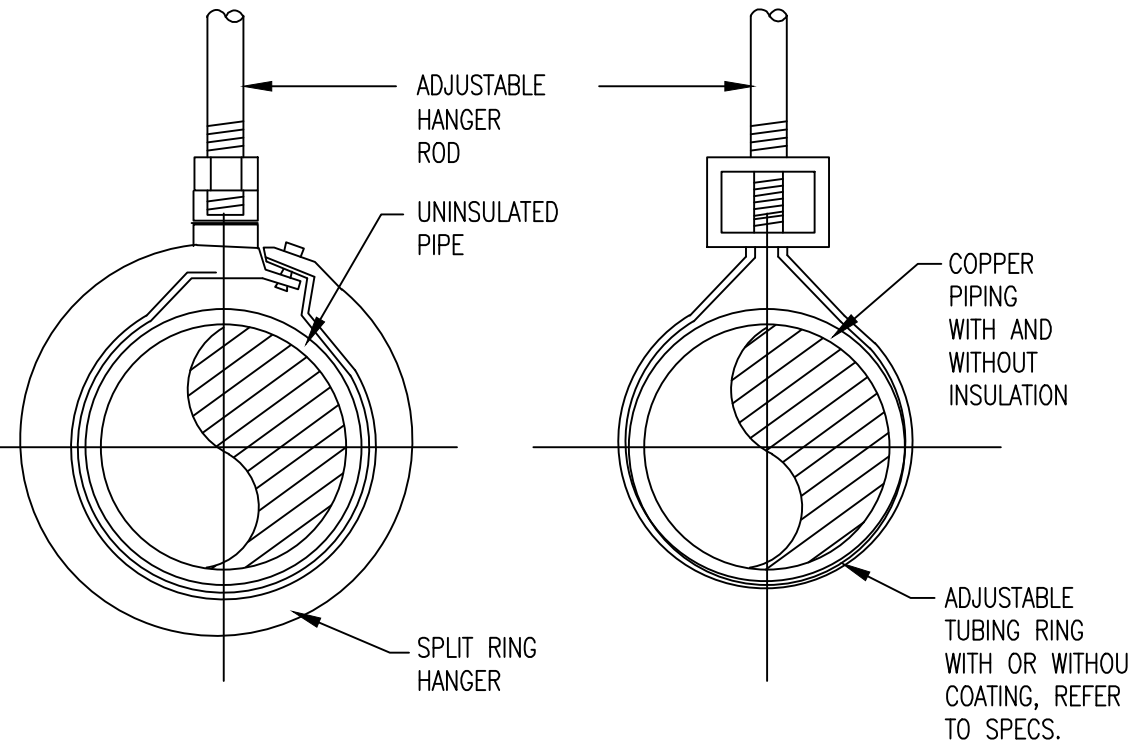
PLAN KEYED NOTE:

- ① DISCONNECT AND REMOVE EXISTING CHECK VALVE. PROVIDE NEW 2" SILENT CHECK VALVE. NEW CHECK VALVE SHALL BE PLACED NOT MORE THAN 48" ABOVE THE BASIN COVER. MOUNT NEW CHECK VALVE AT A 45 DEGREE ANGLE. REFER TO DETAIL ON THIS DRAWING.

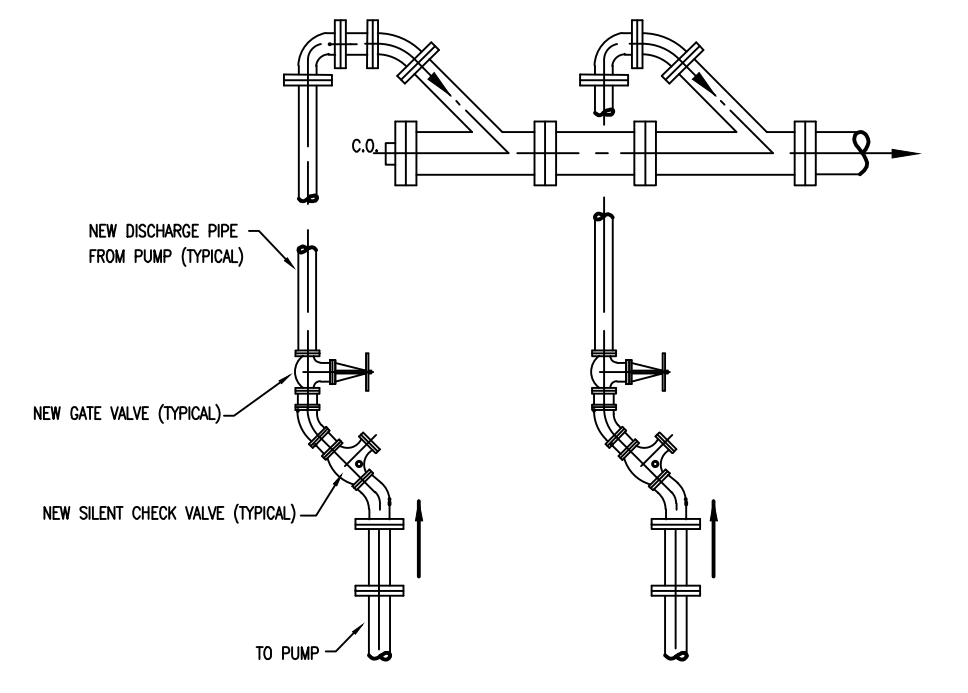
PUMP SCHEDULE								
PUMP No.	TYPE	GPM	TDH FEET	MOTOR			REMARKS	MANUFACTURER
				V/PH/HZ	HP	RPM		
SE-2	WET-PISTON MOUNTED, VERTICAL SEWAGE EJECTOR	30	33	208/3/60	3/4	1750	HEAVY-DUTY VERTICAL SUSPENDED SUBMERGED TYPE CENTRIFUGAL PUMPS WITH ONE PIECE CAST IRON CASE AND 2-INCH DISCHARGE. THE CONTROLS SHALL CONSIST OF A NEMA-1 UL L LABELED DUPLEX CONTROL PANEL WITH A MAIN DOOR-INTERLOCKED DISCONNECT, CIRCUIT BREAKERS, STARTERS, OIL BLOCKS, H-D-A SWITCHES, RUN LIGHTS, TRANSFORMER, AND ALARM BELL AND LIGHT, WITH SILENCE BUTTON AND REMOTE ALARM CONTACTS, FLOAT SWITCHES. A NEMA-1 PEDESTAL MOUNTED FLOAT ALTERNATOR TO CONTROL PUMP ON, OVERRIDE AND ALTERNATIVE OPERATION SHALL BE MOUNTED ON THE NEW STEEL BASIN COVER.	CRANE PUMPS AND SYSTEM, TRAMCO PUMP CO.



ANNEX BUILDING BASEMENT PLUMBING PIPING PLAN-PARTIAL
 SCALE: 1/8" = 1' 0"
 10' 0" 0' 0" 20' 0"



PIPING HANGERS DETAIL
 NOT TO SCALE



SUMP PUMPS PIPING REPLACEMENT DETAIL
 NOT TO SCALE

MAIN BUILDING BASEMENT PLUMBING PIPING PLAN-PARTIAL
 SCALE: 1/8" = 1' 0"
 10' 0" 0' 0" 20' 0"

NOTE: CONTRACTOR SHALL VERIFY IN FIELD EXACT LOCATIONS AND EXTENT OF PIPING REPLACEMENT WORK. MAKE NEW CONNECTIONS TO EXISTING PIPING WITH NEW PIPING SYSTEM AS SHOWN. PROVIDE DIELECTRIC FITTING AS REQUIRED.

REPLACE ALL EXISTING BROKEN, CRACKED, OR CORRODED WASTE AND VENT PIPING FROM FLOOR DRAINS WITH NEW PIPING. MATCH SIZE AND MATERIAL OF NEW PIPING TO EXISTING. CUT ALL UNUSED PIPES CLOSE TO MAINS. PROVIDE PLUGS OR CAPS TO UNUSED OPENINGS. MAKE ALL FINAL CONNECTIONS, COMPLETE IN PLACE, READY FOR OPERATION.

REMOVE AND REPLACE APPROXIMATELY 3 FEET OF EXISTING CORRODED PIPE. RECONNECT TO EXISTING BRANCH PIPE AND CAP.

RECONNECT EXISTING 2" PIPE TO NEW 8" PIPE. PROVIDE DIELECTRIC FITTING AS REQUIRED.

CONTRACTOR SHALL REMOVE AND REPLACE EXISTING CLOGGED OR DETERIORATED HORIZONTAL 8" STORM PIPE IN BASEMENT. MATCH SIZE AND MATERIAL OF NEW PIPE TO EXISTING. PROVIDE NEW PIPE HANGERS AND SUPPORTS. RECONNECT TO EXISTING PIPING OR BASIN AS REQUIRED. VERIFY EXACT LOCATION IN FIELD.

CONTRACTOR SHALL REMOVE AND REPLACE EXISTING CLOGGED OR DETERIORATED VERTICAL 6" STORM PIPE IN BASEMENT UP TO 1ST FLOOR SLAB AND EXISTING 6" ELBOW. MATCH SIZE AND MATERIAL OF NEW PIPE AND FITTINGS TO EXISTING. VERIFY EXACT LOCATION IN FIELD. PROVIDE NEW CLEANOUT AT BASE OF DOWNSPOUT.

RESUPPORT EXISTING PIPE WITH NEW HANGERS AND SUPPORTS AS REQUIRED.

PROVIDE NEW FITTING AND RECONNECT NEW AND EXISTING PIPE. MAKE ALL FINAL CONNECTIONS COMPLETE IN PLACE, READY FOR OPERATION.

REMOVE AND REPLACE HOT WATER AND PIPING IN AIR TUNNEL. RECONNECT ALL EXISTING BRANCH PIPES TO NEW PIPE. PROVIDE NEW VALVES. PROVIDE NEW INSULATION ON NEW PIPING. RESTORE EXISTING INSULATION DISTURBED DURING PIPE REPLACEMENT.

REMOVE AND REPLACE WATER PIPING IN AIR TUNNEL. RECONNECT ALL EXISTING BRANCH PIPES TO NEW PIPE. PROVIDE NEW VALVES. PROVIDE NEW INSULATION ON NEW PIPING. RESTORE EXISTING INSULATION DISTURBED DURING PIPE REPLACEMENT.



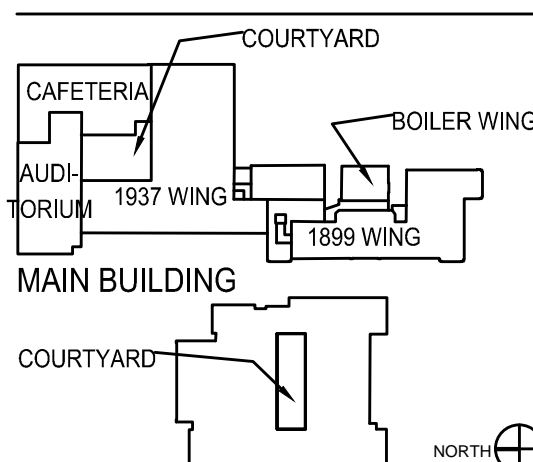
LINCOLN PARK HIGH SCHOOL RENOVATION
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 CHICAGO, ILLINOIS 60614
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 Chicago, Illinois
 Mechanical, Electrical, Plumbing and FP Engineer

Altamanu, Inc.
 Chicago, Illinois
 Landscape Architect



ANNEX BUILDING KEY PLAN
 WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS WORKER SHALL BE AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THE PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

Mark	Description	Date
	OUT TO BID	04.12.17
▲	ADDENDUM NO. 1	04.24.17

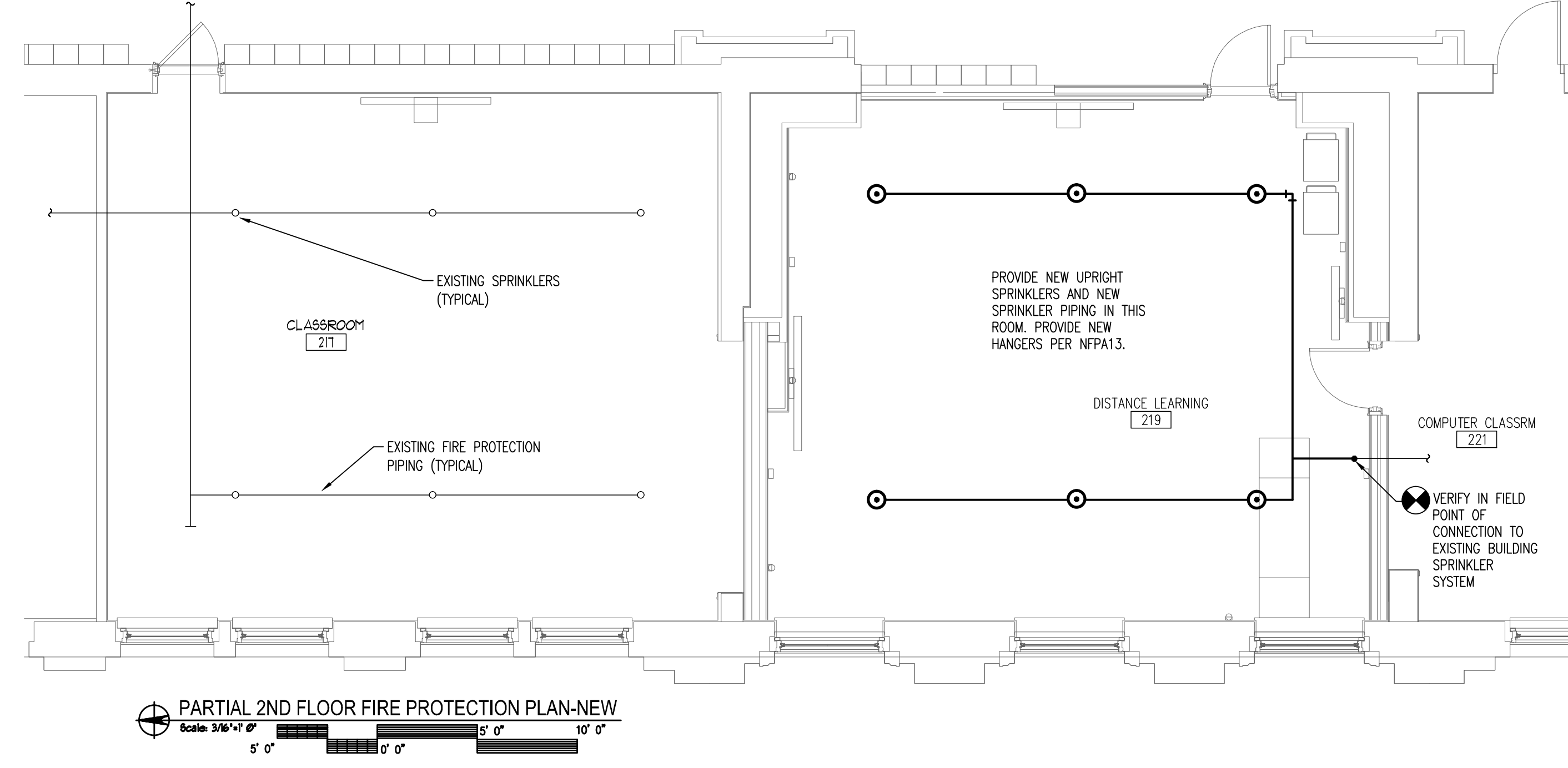
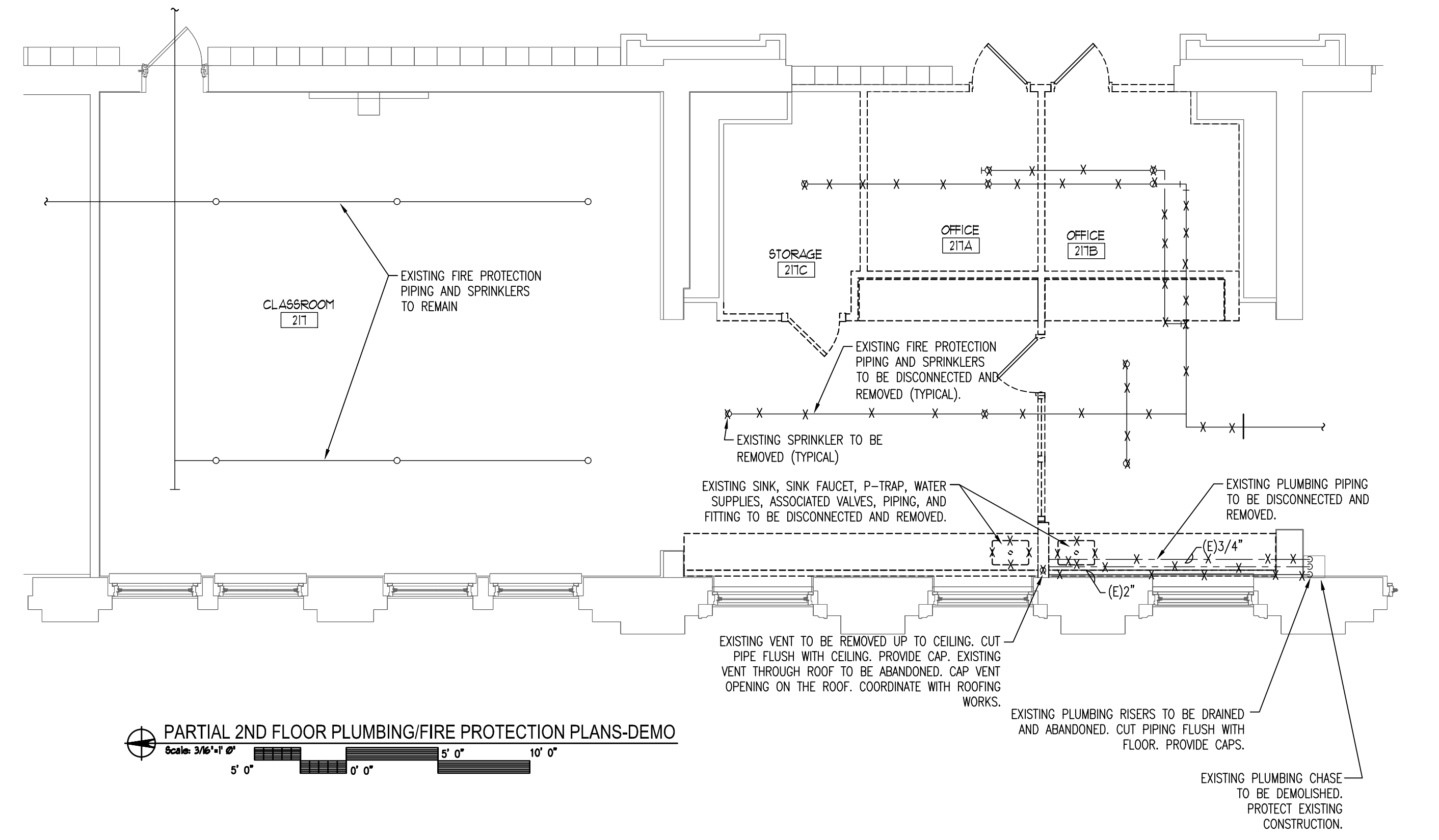
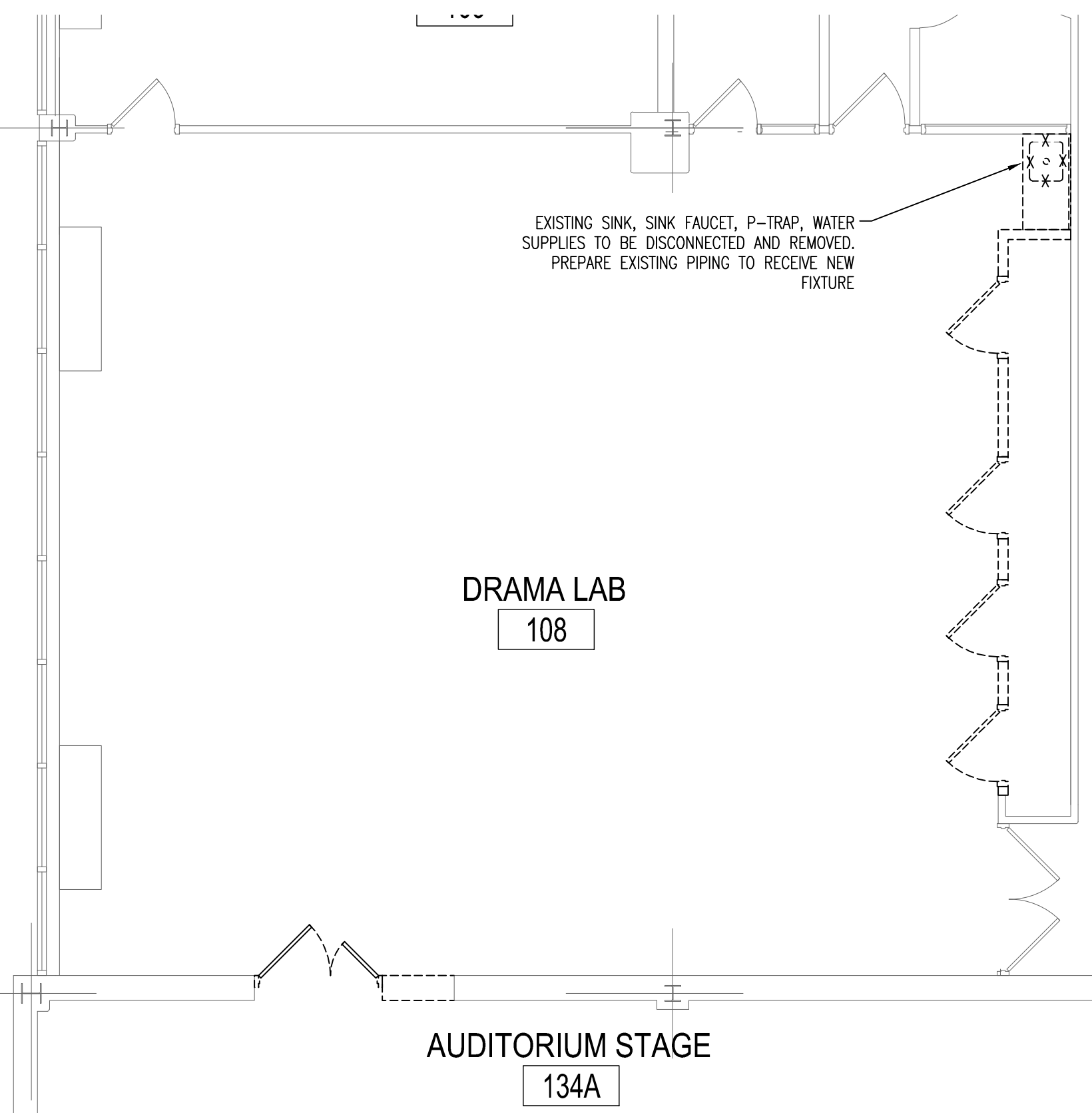
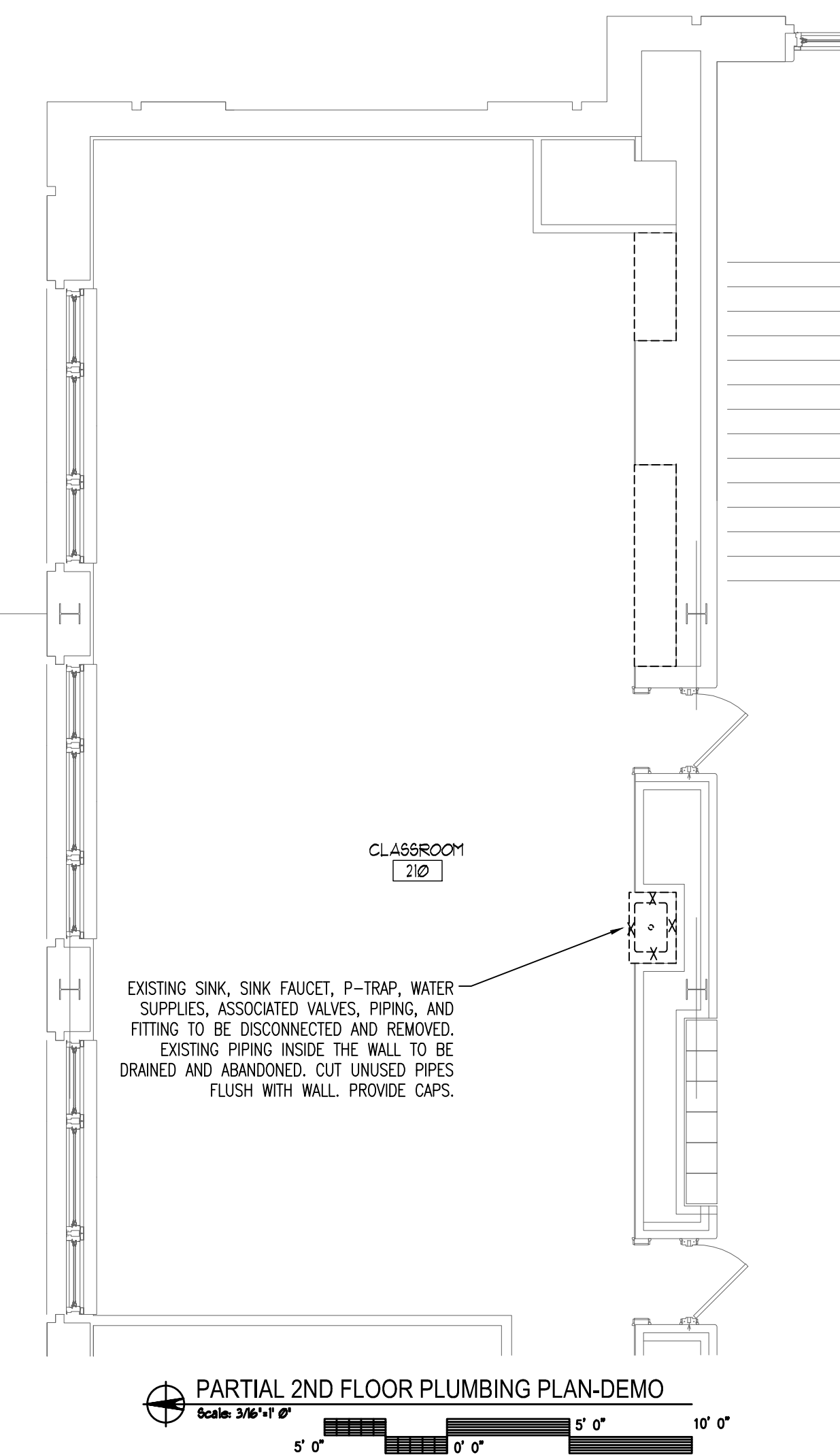
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SWWB Project No.: 16-289 (MCA# 4676)

Title
MAIN AND ANNEX BUILDING PLUMBING BASEMENT PLANS-PARTIAL

Sheet

P0.02



AUTOMATIC SPRINKLER SCHEDULE							
SYMBOL	MANUFACTURE MODEL NO.	TYPE	COVERAGE	TEMP.	FINISH SPRK.	FINISH CANOPY	REMARKS
⊙	VIKING #K300	UPRIGHT	STANDARD	155°	BRASS	-	QUICK RESPONSE

THE FIRE PROTECTION SYSTEM SHALL BE HYDRAULICALLY CALCULATED AS FOLLOWS:
 CLASSES: 0.12 GPM PER SQ.FT. OVER MOST HYDRAULICALLY REMOTE 1500 SQ.FT. MAXIMUM AREA PER SPRINKLER NOT TO EXCEED 225 SQ.FT.

SPRINKLER SYSTEM PIPING & HANGER SCHEDULE							
PIPE DIAMETER	MIN. PIPE SIZE	HANGER TYPE	MIN. ROD SIZE	ATTACHMENT METHOD	MIN. TRAPEZE SIZE	MAX SPACING	MAX. EOBL UNSUPPORTED LENGTH
1" & 1.25"	SCH. 40	SWIVEL	3/8"	C-CLAMP/ ANCHOR BOLT	2"	12'-0"	3'-0" & 4'-0"
1.5"-2"	SCH. 40	SWIVEL	3/8"	C-CLAMP/ ANCHOR BOLT	2"	15'-0"	5'-0"

- SCHEDULE IS TYPICAL - APPROVED DEVIATIONS ARE PERMITTED ONLY IF ALLOWED BY AUTHORITY HAVING JURISDICTION.
- GALVANIZED PIPING: SCH. 40 ONLY AND/OR FM APPROVED FOR 300 PSI & ASTM A653.
- BASED ON 6'-6" MAX. SPAN FOR TRAPEZE MEMBER & FOLLOWS MINIMUM SPEC. PIPE SCHEDULE
- EXPANSION SHIELDS IN CONCRETE MAX SPACING IS 10'-0" FOR PIPE SIZES > 4"
- LIMITED TO PER PIPE SECTION AND PER TWO BRANCH LINES MAX.
- MAXIMUM UNSUPPORTED ARMORER LENGTH IS 24" (COPPER 12').

- ### GENERAL PLUMBING DEMOLITION NOTES (APPLY TO ALL DEMOLITION DRAWINGS)
- DEMOLITION INFORMATION SHOWN ON THE CONTRACT DOCUMENTS IS INTENDED TO BE SCHEMATIC IN NATURE AND MAY NOT ILLUSTRATE ALL MISCELLANEOUS WORK NECESSARY TO COMPLETE THE DEMOLITION AND NEW WORK. REFER TO ARCHITECTURAL DRAWINGS FOR INTENT OF FINAL CONSTRUCTION.
 - DEMOLITION INFORMATION SHOWN ON THE CONTRACT DOCUMENTS IS BASED ON A CURSORY REVIEW OF THE EXISTING CONDITIONS. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS.
 - ALL PLUMBING FIXTURES REQUIRED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY.
 - THE DEMOLITION SCOPE OF WORK SHALL INCLUDE PATCHING TO MATCH EXISTING CONSTRUCTION OF ALL HOLES LEFT BY THE DEMOLITION WORK ON EXPOSED SURFACES.
 - THIS CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DANGEROUS OR NON-CONFORMING CONDITIONS PRIOR TO PROCEEDING. EXISTING CONDITIONS SHOWN ARE CORRECT TO THE BEST KNOWLEDGE OF THE ARCHITECT/ENGINEER. IF ACTUAL CONDITIONS VARY, NOTIFY THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING IN AFFECTED AREAS. WHERE EXISTING UTILITIES SHOWN ARE REQUIRED TO BE CAPPED, REMOVED, OR ALTERED WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE PUBLIC UTILITY COMPANIES AND GOVERNMENTAL DEPARTMENTS. APPROPRIATE AUTHORITIES / AGENCIES SHALL BE NOTIFIED PRIOR TO BEGINNING ANY WORK.
 - THIS CONTRACTOR IS RESPONSIBLE FOR CLEAN UP AND REMOVAL FROM THE SITE OF ALL CONSTRUCTION DEBRIS, SALVAGE MATERIAL, ETC., ON A DAILY BASIS AND AT THE COMPLETION OF THE WORK. ANY OF SAID MATERIALS, DEVICES, OR EQUIPMENT CPS REQUESTS TO BE RETAINED SHALL BE RELOCATED TO AN AREA DESIGNATED BY CPS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL PLUMBING DEMOLITION/REMOVAL WORK AND FINISHING REQUIREMENTS.
 - PERFORM ALL CUTTING, CORING, AND PATCHING REQUIRED TO COMPLETE THE WORK. PERFORM ALL DEMOLITION AND REMOVAL OF DEBRIS RESULTING THEREFROM AND REQUIRED TO COMPLETE THE WORK. PATCH AND PAINT EXISTING FINISHED SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS TEXTURE AND THICKNESS USING EXPERIENCED INSTALLERS. RESTORE TO ORIGINAL CONDITION AFTER INSTALLATION.
 - PROTECT ALL EXISTING PIPING, EQUIPMENT, AND FIXTURES TO REMAIN DURING DEMOLITION AND NEW WORK CONSTRUCTION PERIOD.
 - VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO SUBMITTING PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
 - ALL EQUIPMENT AND MATERIALS SHALL BE REMOVED FROM THE PREMISES. MATERIALS AND EQUIPMENT BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF.
 - PROVIDE SAFEGUARDS, INCLUDING WARNING SIGNS, BARRICADES, TEMPORARY FENCES, WARNING LIGHTS, AND OTHER SIMILAR ITEMS THAT ARE REQUIRED FOR PROTECTION OF ALL PERSONNEL DURING DEMOLITION AND REMOVAL OPERATIONS.
 - SEQUENCE OF ALL DEMOLITION WORK SHALL BE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS, DRAWINGS AND/OR AS DIRECTED BY THE CONSTRUCTION MANAGER.
 - OPENINGS THROUGH FLOORS AND WALLS WHERE PIPING OR EQUIPMENT HAS BEEN REMOVED SHALL BE SEALED TO MAINTAIN ANY FIRE RATINGS AND TO SEAL OFF COLD, SMOKE AND TOXIC FUMES.
 - THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING INSTALLATIONS NOT PERTINENT TO THE CONTRACT. THE COST OF REPAIRS TO SUCH DAMAGED WORK SHALL BE CHARGED AGAINST THE CONTRACTOR.
 - PROVIDE ALL CUTTING, CORING, PATCHING, AND FIRE SEALING AS REQUIRED FOR DEMOLITION WORK.
 - EXISTING FIXTURES AND/OR EQUIPMENT TO BE DISCONNECTED AND REMOVED FROM SITE, INCLUDING PIPING, INSULATION, VALVES, CONCRETE BASES, UNUSED CONNECTIONS, ETC. WITH ALL PIPING AND/OR CONNECTIONS CAPPED WITHIN CHASE WALL, FLOOR OR CEILING SPACE. THIS CONTRACTOR SHALL PERFORM MINOR RESTORATION, CUTTING, PATCHING AND PAINTING OF EXISTING SURFACES WHICH IS NOT INCLUDED IN THE GENERAL CONTRACTOR'S WORK. COORDINATE MAJOR RESTORATION, CUTTING, PATCHING AND PAINTING WHICH IS INCLUDED IN THE GENERAL CONTRACTOR'S WORK.
 - ALL PIPING BEING REMOVED MUST BE TAKEN BACK TO WITHIN 2 FEET OF MAIN SOURCE LEAVING NO DEAD ENDS.
 - PLUMBING DEMOLITION WORK SHALL INCLUDE PIPING, EQUIPMENT, VALVES, ACCESSORIES, ETC. IN SUPPORT OF MECHANICAL EQUIPMENT BEING REMOVED.
 - CONTRACTOR SHALL COMPLY WITH ALL STATE PLUMBING CODE, COUNTY, AND CITY RULES, REGULATIONS, AND ORDINANCES HAVING JURISDICTION OVER THE DEMOLITION WORK INDICATED.
 - CONTRACTOR SHALL FIELD VERIFY EXACT PIPE LOCATIONS, SIZES AND FIXTURE LOCATIONS.
 - ALL WORK SHALL BE PHASED TO MINIMIZE DISRUPTION OF ALL EXISTING FACILITY OPERATIONS. PROVIDE TEMPORARY PIPE CAPS AND CONNECTIONS AS REQUIRED TO MAINTAIN OPERATION OF EXISTING PLUMBING SYSTEMS. SHUTDOWN OF EXISTING SERVICES SHALL BE COORDINATED WITH CPS AND SHALL OCCUR AT SUCH A TIME AS IS CONVENIENT FOR CPS.
 - WHERE DEMOLITION OF FIXTURE AND REMOVAL OF PIPING OR OTHER ACCESSORY LEAVES AN OPENING IN THE FLOOR, WALL OR CEILING, THE SAME SHALL BE PATCHED TO MATCH EXISTING ADJACENT SURFACE(S).
 - CONTRACTOR SHALL PROTECT ALL EXISTING BUILDING COMPONENTS FROM DAMAGE AT ALL TIMES. DAMAGE TO EXISTING BUILDING COMPONENTS RESULTING FROM DEMOLITION OR CONSTRUCTION WORK BEING PERFORMED SHALL BE REMEDIATED AT THE CONTRACTOR'S EXPENSE.
 - EXPOSED EXISTING PIPING NOT TO REMAIN IN USE SHALL BE REMOVED. DISCONNECT ABANDONED WATER PIPING FROM DISTRIBUTION SYSTEM AND DRAIN DOWN. CAP OR PLUG ALL UNUSED OPENINGS.



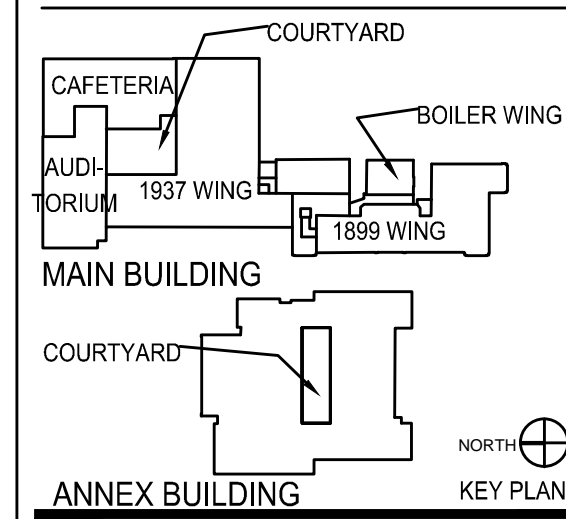
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WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. ANY ASBESTOS MATERIALS FOUND BY ANY PERSON SHALL BE IMMEDIATELY REPORTED TO THE PROJECT MANAGER. NO PERSON SHALL REMOVE OR DISTURB ASBESTOS MATERIALS UNLESS THE PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

Mark	Description	Date
OUT	OUT TO BID	04.12.17
ADD	ADDENDUM NO. 1	04.24.17

PBCC Project No.: 05085

SWWB Project No.: 16-289 (MCA# 4676)

Part: PARTIAL 1ST AND 2ND FLOOR PLUMBING/FIRE PROTECTION PLANS - DEMO&NEW

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