

NOTE: NOT EVERY KEYNOTE IS APPLICABLE TO EVERY SHEET.

MECHANICAL INSTALLATION KEYNOTES

Table with 2 columns: Keynote ID and Description. Includes items 230001 through 230903 regarding boiler installation, exhaust fans, ductwork, and controls.

MECHANICAL INSTALLATION KEYNOTES

Table with 2 columns: Keynote ID and Description. Includes items 230904 through 233702 regarding fan controls, chilled water pumps, hydronic systems, and diffusers.

NOTE: NOT EVERY KEYNOTE IS APPLICABLE TO EVERY SHEET.

MECHANICAL DEMOLITION KEYNOTES

Table with 2 columns: Keynote ID and Description. Includes items 022301 through 022312 regarding removal of exhaust fans, boilers, ductwork, and controls.

MECHANICAL DEMOLITION KEYNOTES

Table with 2 columns: Keynote ID and Description. Includes items 022313 through 022326 regarding removal of temperature sensors, grilles, and diffusers.

ABBREVIATIONS

Table of abbreviations for HVAC and electrical systems, including terms like AMPS, ATC, APD, A.F.F., CFM, CO, COND., DRAIN, etc.

PIPE ABBREVIATIONS

Table of pipe abbreviations for various systems such as CHILLED WATER RETURN, CHILLED WATER SUPPLY, COMBUSTION FLUE, etc.

GENERAL NOTES

- 1. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH STATE OF INDIANA MECHANICAL CODE. LATEST APPLICABLE EDITION...
2. IF NON-DESIGN BASE EQUIPMENT IS SELECTED...
3. DO NOT SCALE DRAWINGS FOR DIMENSIONS...
4. KEY NOTES ARE MEANT AS A GENERAL GUIDE...
5. CONTRACTOR IS RESPONSIBLE FOR ALL WORK IDENTIFIED ON ALL DRAWINGS...
6. CONTRACTOR SHALL PROVIDE ACCESS DOORS...
7. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE...
8. DUCTWORK:
A. ALL LISTED DUCTWORK DIMENSIONS ARE CLEAR AIR FLOW DIMENSIONS.
B. ALL DUCTS IN FINISHED ROOMS AND SPACES SHALL BE CONCEALED...
C. FIELD VERIFY LOCATION OF BEAMS, GENERAL STRUCTURE LIGHTING...
D. MAXIMUM LENGTH OF FLEX DUCT SHALL BE 5'-0" FLEX DUCT SHALL NOT BE USED...
E. VOLUME DAMPERS SHALL BE INSTALLED IN ALL BRANCH DUCTS.
F. THE ELBOWS FOR DUCTWORK SHALL HAVE TURNING VANES UNLESS NOTED OTHERWISE.
G. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR AIR DEVICE LOCATIONS.
H. ALL AIR DEVICES IN CMU WALLS SHALL MATCH BLOCK COURSING.
I. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATED WALLS, FLOORS AND SMOKE BARRIERS...
9. ALL STRUCTURAL OPENINGS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWING...
10. ALL HANGER SYSTEMS FOR PIPING, DIFFUSERS, GRILLES AND EQUIPMENT SHALL BE SECURED TO BUILDING STRUCTURAL SYSTEM.
11. COORDINATE ALL WORK WITH EXISTING WORK TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS...
12. CONNECTION TO EQUIPMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATION.
13. ALL MECHANICAL EQUIPMENT REQUIRING NATURAL GAS SHALL BE FURNISHED WITH PRESSURE REGULATOR...
14. HVAC EQUIPMENT SHALL BE CONNECTED TO BUILDING MANAGEMENT SYSTEM.
15. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.
16. ALL CONTROL SETPOINTS AND SETTINGS SHALL BE USER ADJUSTABLE.
17. ALL EXISTING CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES SHALL BE REMOVED AND REPLACED ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS...
18. FOR VARIABLE AIR VOLUME BOXES, DIVISION 23 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 277 V TRANSFORMERS AND CONTROL WIRING DOWNSTREAM OF 277-24V STEP DOWN TRANSFORMER...
19. ALL HVAC CONTROL WIRING SHALL BE PROVIDED WITH DIVISION 23 CONTRACTOR UNLESS OTHERWISE NOTED...
20. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SELECTIVE DEMOLITION ACTIVITIES...
21. FOR THE DURATION OF THE PROJECT, IF ANY EXISTING ITEM IS DAMAGED DURING CONSTRUCTION, IT SHALL BE REPAIRED AND RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
22. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED, INCLUDING ASSOCIATED REPAIR AND FINISHING TO MATCH ADJACENT SURFACES.
23. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY ENVIRONMENTAL CONTROL MEASURES INCLUDING ACCEPTABLE AIR QUALITY CONTROL MEASURES, DUST CONTROL, EROSION CONTROL AND OTHER MEASURES REQUIRED FOR PROTECTION OF THE PROPERTY DURING SELECTIVE DEMOLITION AND CONSTRUCTION ACTIVITIES.
24. CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATING CONTRACT DRAWINGS WITH FIELD CONDITIONS AND WORK ASSOCIATED WITH EACH TRADE.
25. CONTRACTOR SHALL COORDINATE DEMOLITION ACTIVITIES WITH NEW WORK TO VERIFY DIMENSIONS AND EXTENT OF REMOVALS PRIOR TO BEGINNING OF WORK.
26. CONTRACTOR IS RESPONSIBLE FOR REMOVAL, STORAGE AND REINSTALLATION OF REMAINING WALL MOUNTED DEVICES INTENDED FOR REUSE.
27. ALL DEMOLITION WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE STATE OF INDIANA, LOCAL BUILDING CODES, OSHA AND NFPA.
28. OWNER RESERVES THE RIGHT TO SALVAGE ANY EQUIPMENT OR MATERIAL INDICATED TO BE DEMOLISHED.
29. PLANS ARE FOR DIAGRAMMATIC PURPOSES ONLY, BASED ON LIMITED SITE OBSERVATIONS. CONTRACTOR TO REMOVE ANY UNUSED/ABANDONED DUCTWORK, EQUIPMENT, PIPING (GAS, REFRIGERANT ETC.), ASSOCIATED ACCESSORIES WHETHER INDICATED ON THE PLANS OR NOT. CONTRACTOR TO VERIFY EXTENT OF DEMOLITION ON THE FIELD AND COORDINATE WITH THE ENGINEER (AT NO ADDITIONAL COST TO THE OWNER) PATCH WALLS AND/OR FLOOR TO MATCH ADJACENT CONDITIONS.

GENERAL DEMOLITION NOTES

- 1. REFER TO DRAWINGS OF ALL OTHER DISCIPLINES FOR ADDITIONAL REMOVALS AND SELECTIVE DEMOLITION ACTIVITIES.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SELECTIVE DEMOLITION ACTIVITIES...
3. FOR THE DURATION OF THE PROJECT, IF ANY EXISTING ITEM IS DAMAGED DURING CONSTRUCTION, IT SHALL BE REPAIRED AND RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED, INCLUDING ASSOCIATED REPAIR AND FINISHING TO MATCH ADJACENT SURFACES.
5. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY ENVIRONMENTAL CONTROL MEASURES INCLUDING ACCEPTABLE AIR QUALITY CONTROL MEASURES, DUST CONTROL, EROSION CONTROL AND OTHER MEASURES REQUIRED FOR PROTECTION OF THE PROPERTY DURING SELECTIVE DEMOLITION AND CONSTRUCTION ACTIVITIES.
6. CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATING CONTRACT DRAWINGS WITH FIELD CONDITIONS AND WORK ASSOCIATED WITH EACH TRADE.
7. CONTRACTOR SHALL COORDINATE DEMOLITION ACTIVITIES WITH NEW WORK TO VERIFY DIMENSIONS AND EXTENT OF REMOVALS PRIOR TO BEGINNING OF WORK.
8. CONTRACTOR IS RESPONSIBLE FOR REMOVAL, STORAGE AND REINSTALLATION OF REMAINING WALL MOUNTED DEVICES INTENDED FOR REUSE.
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SYMBOLS

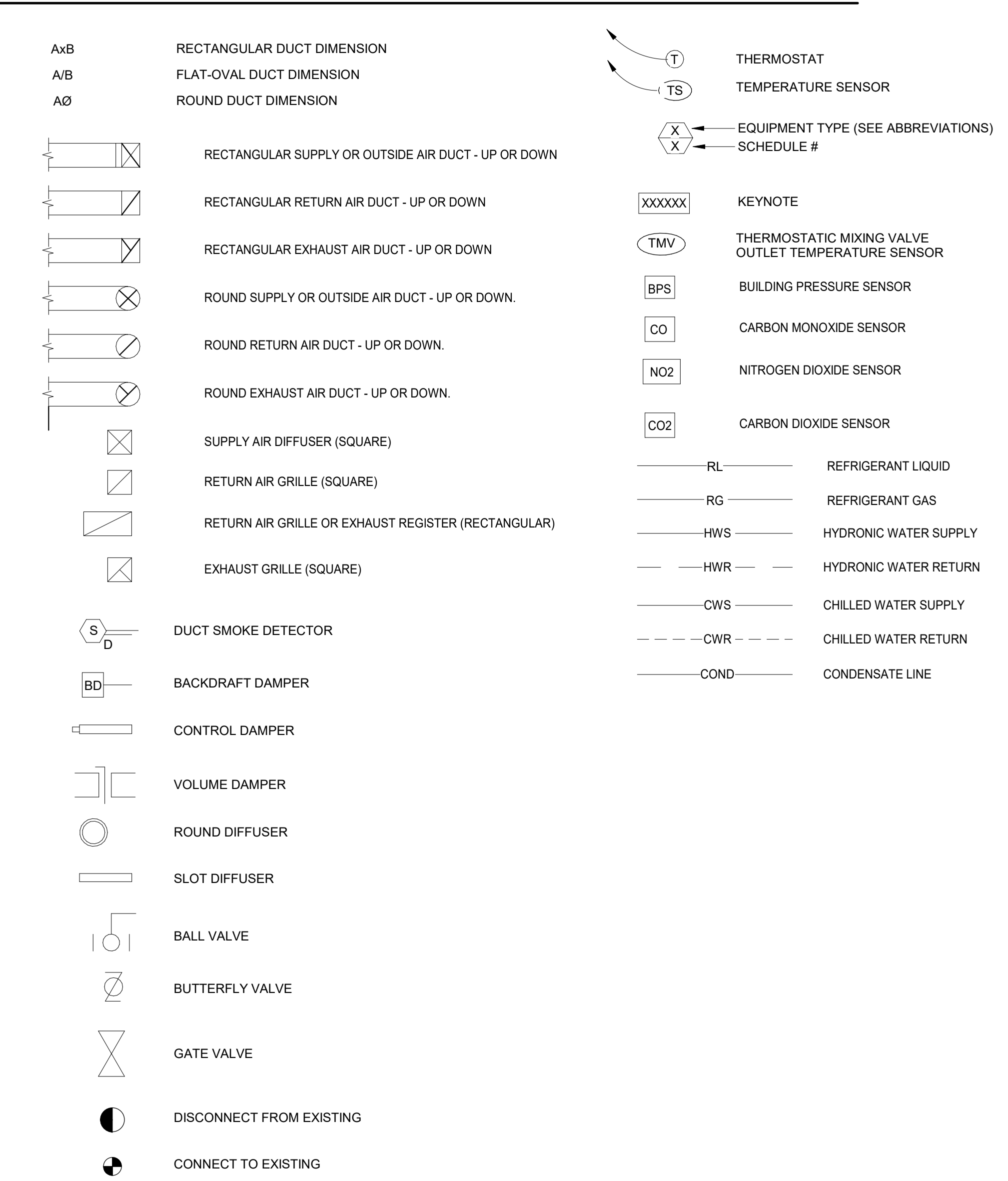


Table titled 'HVAC BASIS OF DESIGN (NEW DUCTLESS SPLITS/FPV 6-5)' showing outdoor and indoor conditions for summer and winter.

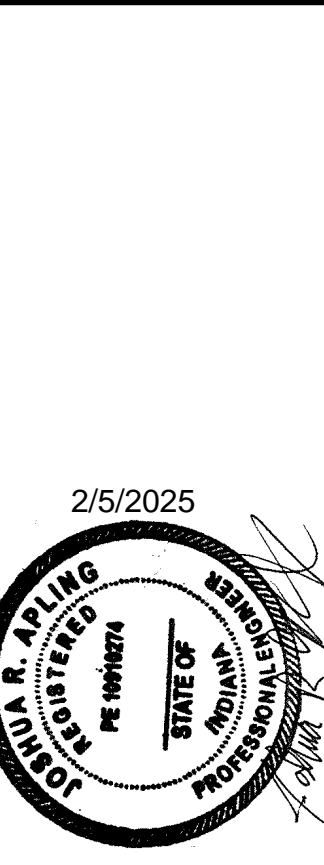


Table with columns for DATE, REVISION, NO., and DRAWING NUMBER. Includes drawing number 2363-1104-90.

Table with columns for DRAWING, DESIGNED, APPROVED, DATE, and PROJECT NUMBER. Includes project number 2363-1104-90.

PORTER COUNTY BOARD OF COMMISSIONERS
PORTER COUNTY SHERIFF'S OFFICE & JAIL
FACILITY IMPROVEMENTS
2755 STATE ROAD 49
GENERAL INFORMATION

DRAWING NUMBER
MO.1
MECHANICAL

NOTE: ELEMENTS ON THIS DRAWING ARE IDENTIFIED BY VARIOUS COLORS; IF THIS NOTE IS NOT RED, THIS DRAWING IS NOT IN COLOR AND NEEDS TO BE REPRINTED IN COLOR.

GENERAL NOTES

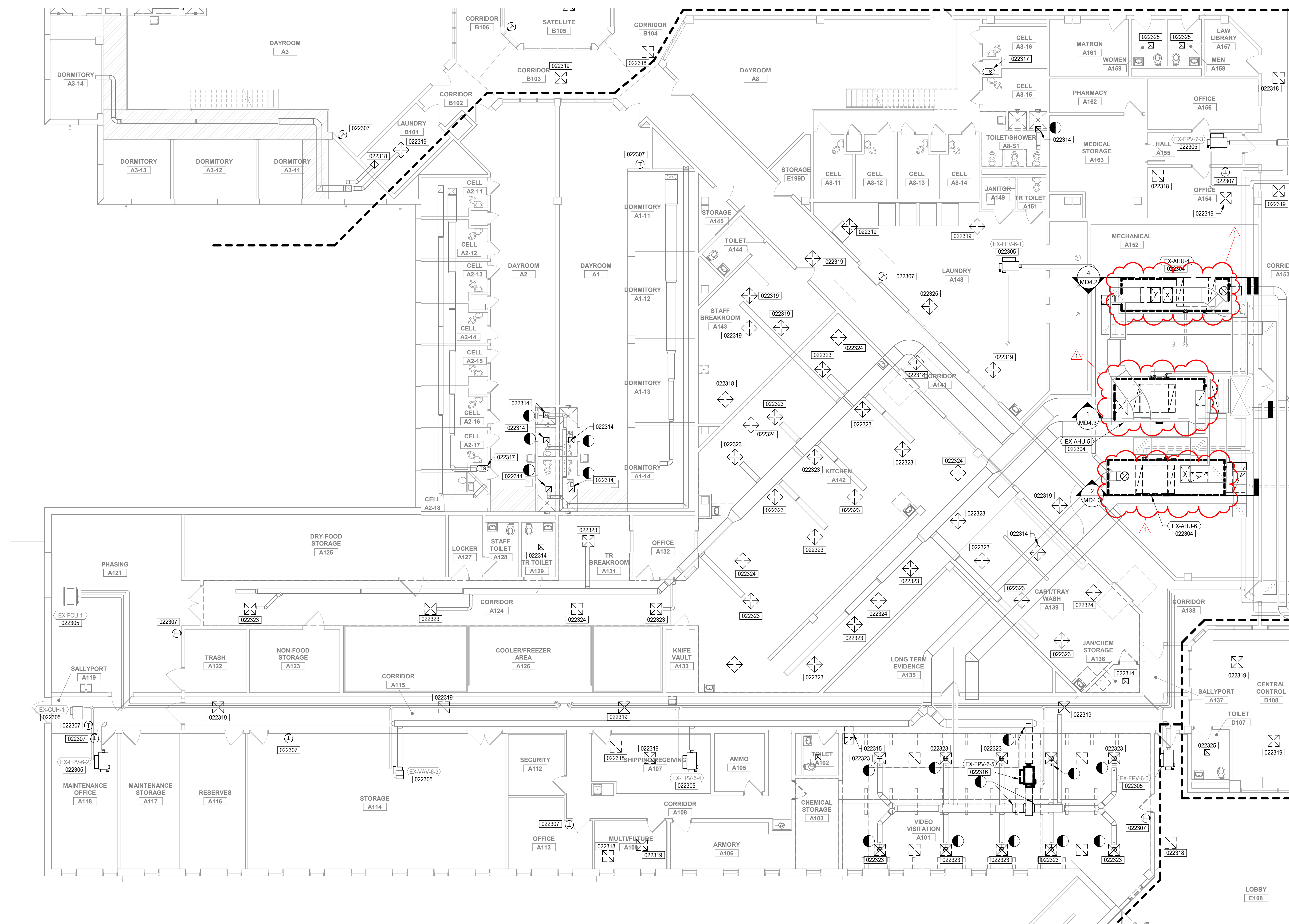
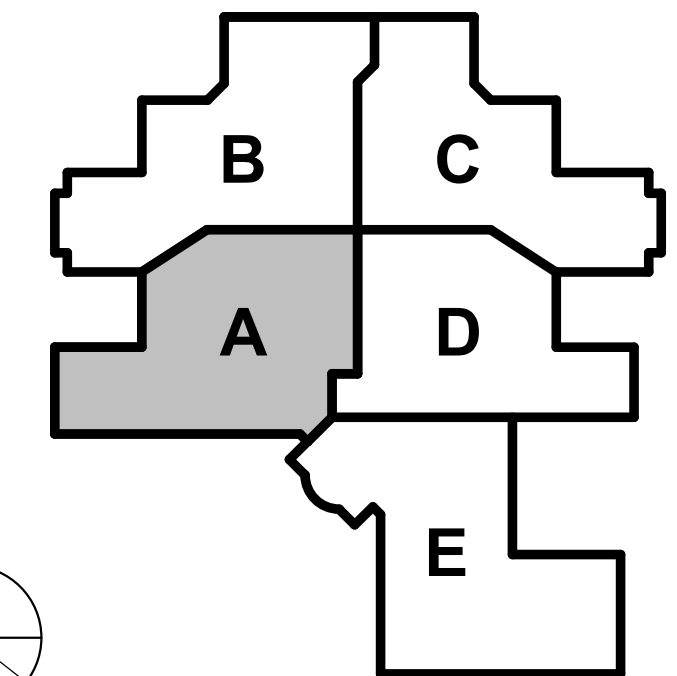
- A. REFER TO SHEETS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.
- B. DUCT AND PIPING LAYOUT ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS AND FITTINGS AS REQUIRED.
- C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENING AS REQUIRED ON SITE.
- D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.
- E. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
- F. REFER TO DETAILS SHEETS FOR ADDITIONAL INFORMATION ON INSTALLATION METHODS.
- G. ALL EXISTING CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES SHALL BE REMOVED AND REPLACED ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.
- H. PROVIDE NEW CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.

KEYNOTES

- 022304 REMOVE AIR HANDLING UNIT COMPLETE, INCLUDING DUCTWORK AS INDICATED. PIPING AS INDICATED. **REMOVE EX-AHJ-4, EX-AHJ-5, EX-AHJ-6, AND EX-FPV-6-1. EQUIPMENT PAD EXISTING TO REMAIN REFER TO MD4-X SERIES FOR MORE INFORMATION.**
- 022305 REMOVE EXISTING CONTROLS TO UNIT COMPLETE. REMOVE ALL ASSOCIATED TUBING OR WIRING SERVING UNIT CONTROLS. REMOVE UNIT FROM CONTROLS FRONT END.
- 022307 REMOVE EXISTING THERMOSTAT AND WIRING. CONTRACTOR TO FIELD VERIFY THERMOSTAT LOCATIONS.
- 022314 DISCONNECT AND REMOVE EXHAUST GRILLE FROM DUCTWORK. TEMPORARILY COVER DUCT OPENING.
- 022315 REMOVE EXISTING TRANSFER AIR DUCT AND ASSOCIATED GRILLE. PATCH WALL TO MATCH EXISTING CONDITIONS.
- 022316 DISCONNECT AND REMOVE EXISTING VAV BOX FROM DUCTWORK. TEMPORARILY COVER DUCT OPENINGS.
- 022317 REMOVE EXISTING TEMPERATURE SENSOR AND WIRING FROM RETURN DUCTWORK. CONTRACTOR TO FIELD VERIFY EXISTING TEMPERATURE SENSOR LOCATION.
- 022318 TEMPORARILY DISCONNECT AND REMOVE RETURN GRILLE FROM CEILING. SALVAGE GRILLE FOR REINSTALLATION. ALTERNATE BID: REMOVE EXISTING RETURN GRILLE FOR REPLACEMENT.
- 022319 TEMPORARILY DISCONNECT AND REMOVE SUPPLY DIFFUSER FROM DUCTWORK AND CEILING. TEMPORARILY COVER DUCT OPENING. SALVAGE DIFFUSER FOR REINSTALLATION. ALTERNATE BID: REMOVE EXISTING SUPPLY DIFFUSER FOR REPLACEMENT. TEMPORARILY COVER DUCT OPENING.
- 022323 DISCONNECT AND REMOVE EXISTING SUPPLY DIFFUSER FOR REPLACEMENT. TEMPORARILY COVER DUCT OPENING.
- 022324 REMOVE EXISTING RETURN GRILLE FOR REPLACEMENT.
- 022325 TEMPORARILY DISCONNECT AND REMOVE EXHAUST GRILLE FROM DUCTWORK. TEMPORARILY COVER DUCT OPENING. SALVAGE GRILLE FOR REINSTALLATION. ALTERNATE BID: REMOVE EXISTING EXHAUST GRILLE FOR REPLACEMENT. TEMPORARILY COVER DUCT OPENING.

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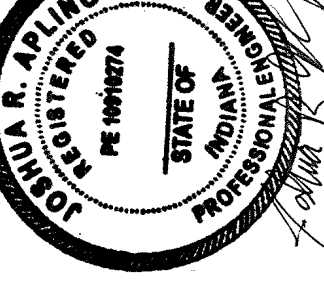
KEYPLAN



FIRST FLOOR MECHANICAL DEMOLITION PLAN - AREA A
 SCALE: 1/8" = 1'-0"

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2/5/2025



NO.	REVISION	DATE
1	ADDENDUM #01	02/05/2025

DRAWN: CSH
 DESIGNED: CSH
 APPROVED: JRA
 DATE: JANUARY 9, 2025

PROJECT NUMBER
2363-1104-90

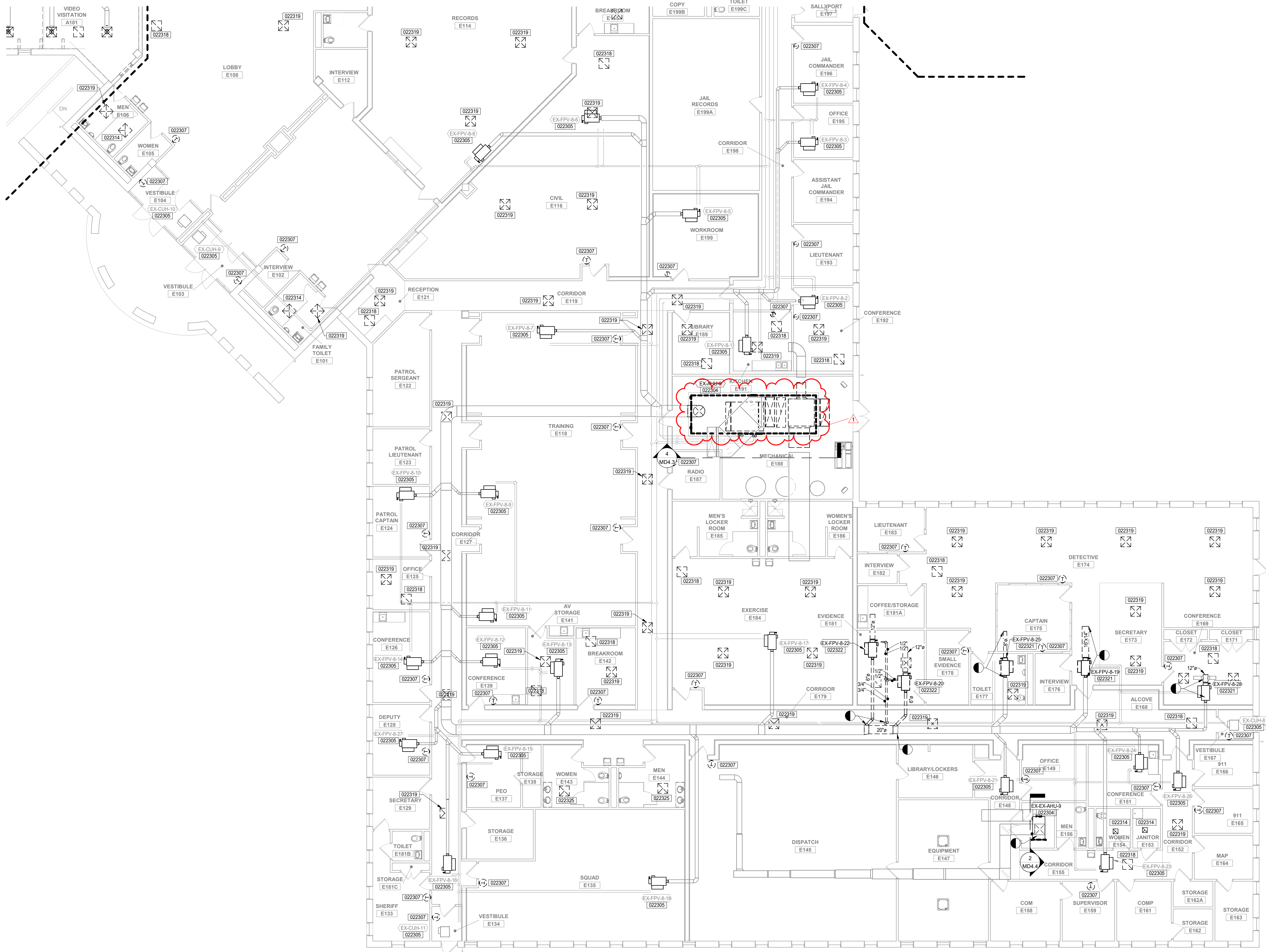
SHEET NUMBER

MD2.1A

MECHANICAL

**PORTER COUNTY BOARD OF COMMISSIONERS
 PORTER COUNTY SHERIFF'S OFFICE & JAIL
 FACILITY IMPROVEMENTS**
 2755 STATE ROAD 49

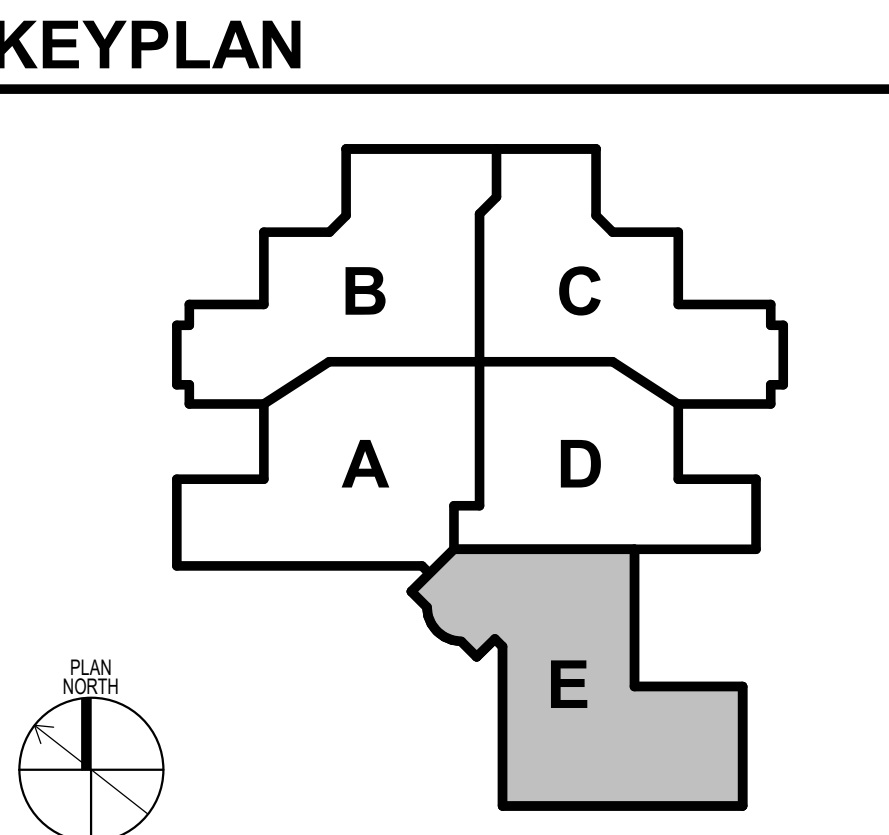
FIRST FLOOR MECHANICAL DEMOLITION PLAN - AREA A



- ### GENERAL NOTES
- A. REFER TO SHEETS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.
 - B. DUCT AND PIPING LAYOUT ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS AND FITTINGS AS REQUIRED.
 - C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENING AS REQUIRED ON SITE.
 - D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.
 - E. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
 - F. REFER TO DETAILS SHEETS FOR ADDITIONAL INFORMATION ON INSTALLATION METHODS.
 - G. ALL EXISTING CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES SHALL BE REMOVED AND REPLACED ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.
 - H. PROVIDE NEW CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.

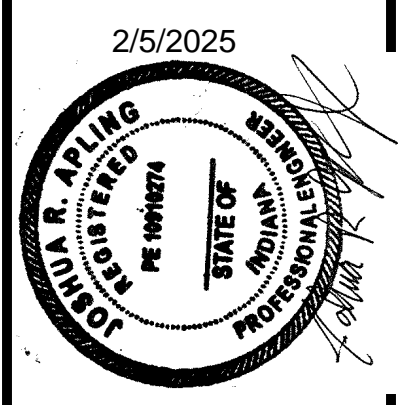
- ### KEYNOTES
- 022304 REMOVE AIR HANDLING UNIT COMPLETE, INCLUDING DUCTWORK AS INDICATED. PIPING AS INDICATED. CONTROL VALVES AND PANELS TO REMAIN. EQUIPMENT PAD EXISTING TO REMAIN REFER TO MDA-4 SERIES FOR MORE INFORMATION.
 - 022305 REMOVE EXISTING CONTROLS TO UNIT COMPLETE. REMOVE ALL ASSOCIATED TUBING OR WIRING SERVING UNIT CONTROLS. REMOVE UNIT FROM CONTROLS FRONT END.
 - 022307 REMOVE EXISTING THERMOSTAT AND WIRING. CONTRACTOR TO FIELD VERIFY THERMOSTAT LOCATIONS.
 - 022314 DISCONNECT AND REMOVE EXHAUST GRILLE FROM DUCTWORK. TEMPORARILY COVER DUCT OPENING.
 - 022318 TEMPORARILY DISCONNECT AND REMOVE RETURN GRILLE FROM CEILING. SALVAGE GRILLE FOR REINSTALLATION. ALTERNATE BID: REMOVE EXISTING RETURN GRILLE FOR REPLACEMENT.
 - 022319 TEMPORARILY DISCONNECT AND REMOVE SUPPLY DIFFUSER FROM DUCTWORK AND CEILING. TEMPORARILY COVER DUCT OPENING. SALVAGE DIFFUSER FOR REINSTALLATION. ALTERNATE BID: REMOVE EXISTING SUPPLY DIFFUSER FOR REPLACEMENT. TEMPORARILY COVER DUCT OPENING.
 - 022321 REMOVE FPV. REMOVE EXISTING CONTROLS TO UNIT COMPLETE. REMOVE ALL ASSOCIATED TUBING OR WIRING SERVING UNIT CONTROLS. REMOVE UNIT FROM CONTROLS FRONT END. TEMPORARILY COVER DUCT OPENING UNTIL NEW FPV IS INSTALLED.
 - 022322 FPV UNIT TO BE TEMPORARILY REMOVED AND RELOCATED. REMOVE EXISTING CONTROLS TO UNIT COMPLETE. REMOVE ALL ASSOCIATED TUBING OR WIRING SERVING UNIT CONTROLS. REMOVE UNIT FROM CONTROLS FRONT END. REFER TO DRAWING M2.1E FOR NEW INSTALL LOCATION.
 - 022325 TEMPORARILY DISCONNECT AND REMOVE EXHAUST GRILLE FROM DUCTWORK. TEMPORARILY COVER DUCT OPENING. SALVAGE GRILLE FOR REINSTALLATION. ALTERNATE BID: REMOVE EXISTING EXHAUST GRILLE FOR REPLACEMENT. TEMPORARILY COVER DUCT OPENING.

NOTE:
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FIRST FLOOR MECHANICAL DEMOLITION PLAN - AREA E
SCALE: 1/8" = 1'-0"

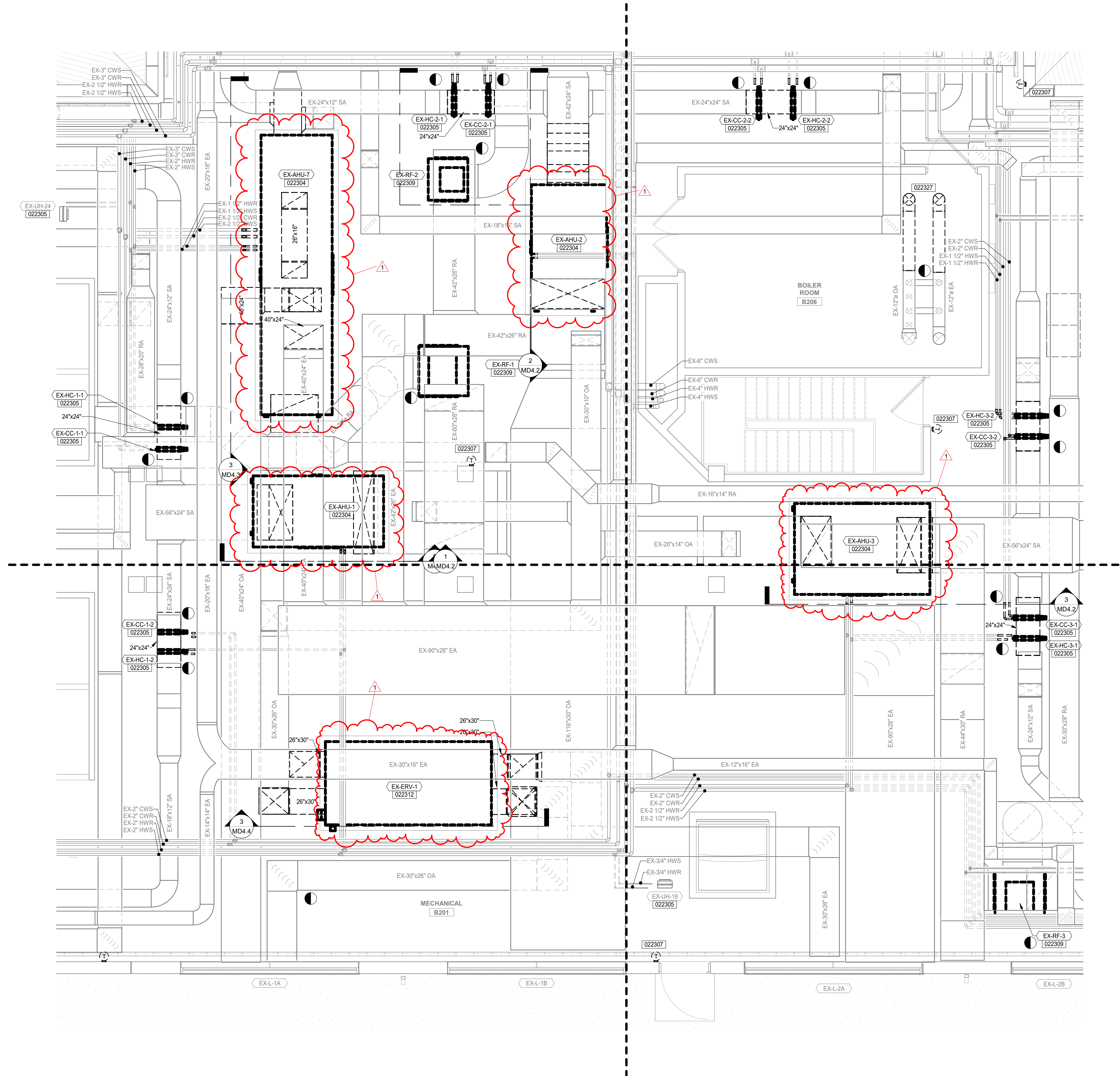


DATE	REVISION
02/25/2025	1 ADDENDUM (R1)

NO.	CHKD.	SJR.
1	CSH	JRA

DATE	PROJECT NUMBER
JANUARY 6, 2025	2363-1104-90

PORTER COUNTY BOARD OF COMMISSIONERS
PORTER COUNTY SHERIFF'S OFFICE & JAIL
FACILITY IMPROVEMENTS
2755 STATE ROAD 49
FIRST FLOOR MECHANICAL DEMOLITION PLAN - AREA E
SHEET NUMBER
MD2.1E
MECHANICAL



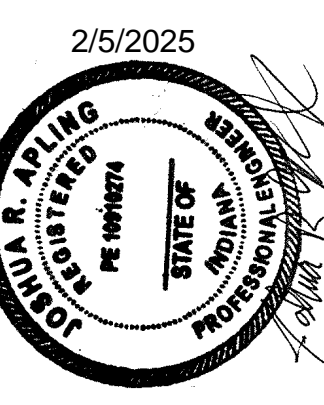
1 ENLARGED MECHANICAL DEMOLITION PLAN - MECHANICAL ROOM B201
SCALE: 1/4" = 1'-0"

GENERAL NOTES

- A. REFER TO SHEETS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.
- B. DUCT AND PIPING LAYOUT ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS AND FITTINGS AS REQUIRED.
- C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENING AS REQUIRED ON SITE.
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KEYNOTES

- 022304 REMOVE AIR HANDLING UNIT COMPLETE, INCLUDING DUCTWORK AS INDICATED. PIPING AS INDICATED. **CONTRACTOR TO REMOVE COMPLETE EQUIPMENT PAD EXISTING TO REMAIN. REFER TO MD4-X SERIES FOR MORE INFORMATION.**
- 022305 REMOVE EXISTING CONTROLS TO UNIT COMPLETE. REMOVE ALL ASSOCIATED TUBING OR WIRING SERVING UNIT CONTROLS. REMOVE UNIT FROM CONTROLS FRONT END.
- 022307 REMOVE EXISTING THERMOSTAT AND WIRING. CONTRACTOR TO FIELD VERIFY THERMOSTAT LOCATIONS.
- 022309 REMOVE EXISTING RETURN FAN COMPLETE, INCLUDING DUCTWORK AS INDICATED, CONTROLS, AND ACCESSORIES COMPLETE.
- 022312 REMOVE EXISTING ERV AND ASSOCIATED DUCTWORK AS INDICATED. REMOVE FROM CONTROLS FRONT END.
- 022327 REMOVE EXHAUST FLUE AND INTAKE FROM EXISTING WATER HEATERS AS INDICATED. GAP DUCTWORK AT ROOF PENETRATION FOR RECONNECTION.



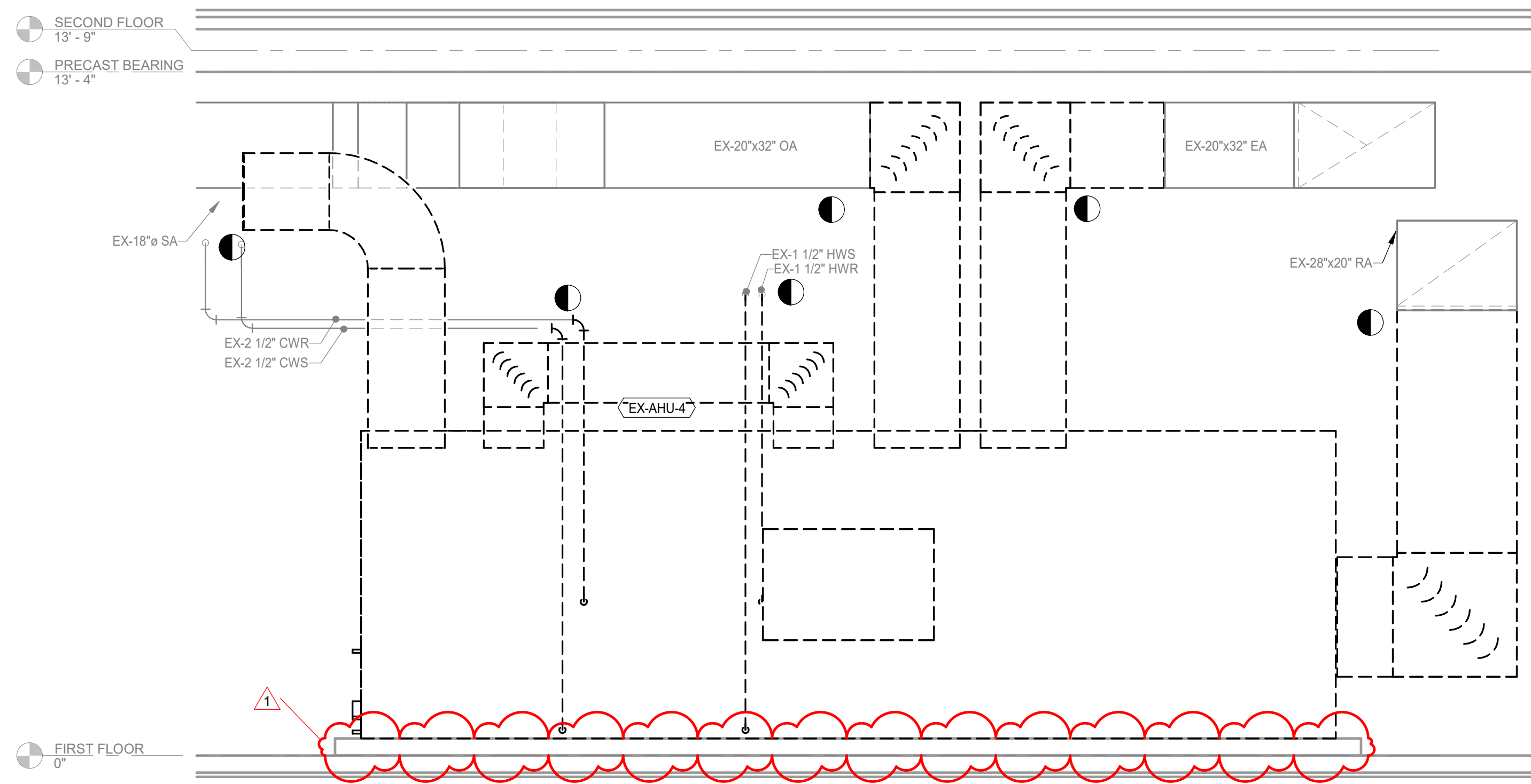
DATE	REVISION	NO.	CHKD.	SJR.
02/25/2025 <td>1 ADDENDUM B01 <td></td> <td></td> <td></td> </td>	1 ADDENDUM B01 <td></td> <td></td> <td></td>			

DRAWN: CSH	DESIGNED: CSH	PROJECT NUMBER
APPROVD: JRA	DATE: JANUARY 6, 2025	2363-1104-90

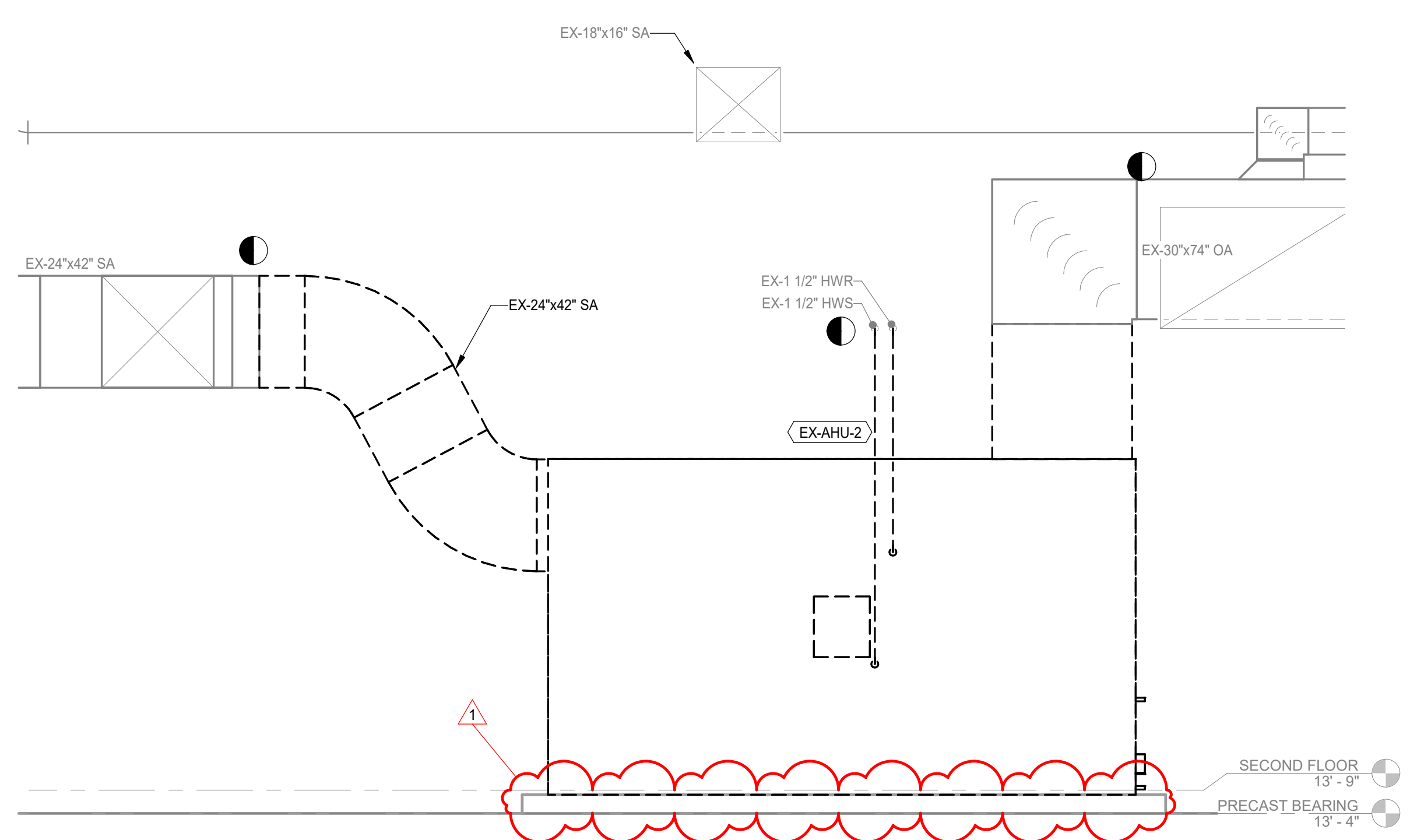
PORTER COUNTY BOARD OF COMMISSIONERS
PORTER COUNTY SHERIFF'S OFFICE & JAIL
FACILITY IMPROVEMENTS
2755 STATE ROAD 49
ENLARGED MECHANICAL REMOVAL PLAN

SHEET NUMBER
MD4.1
MECHANICAL

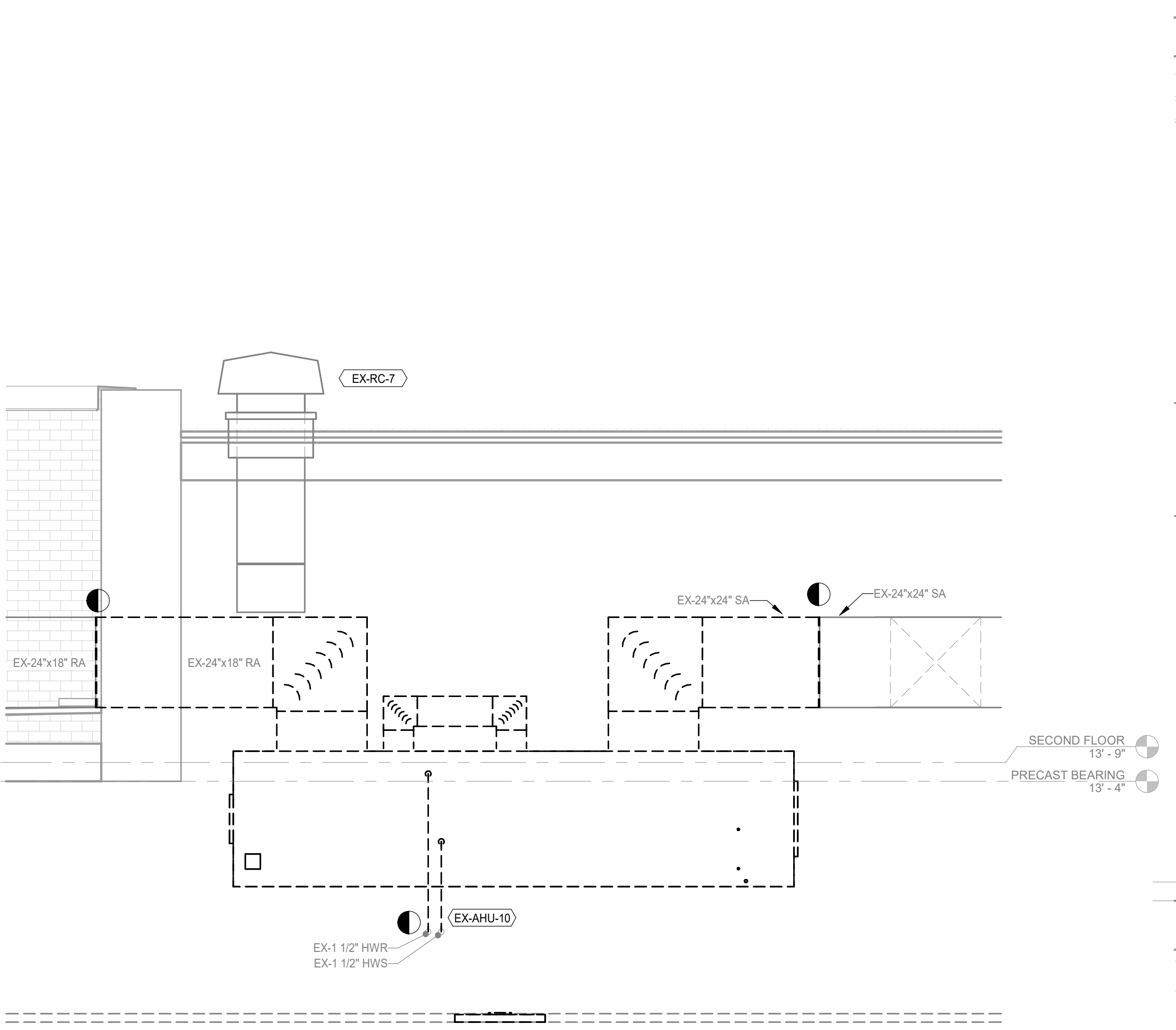
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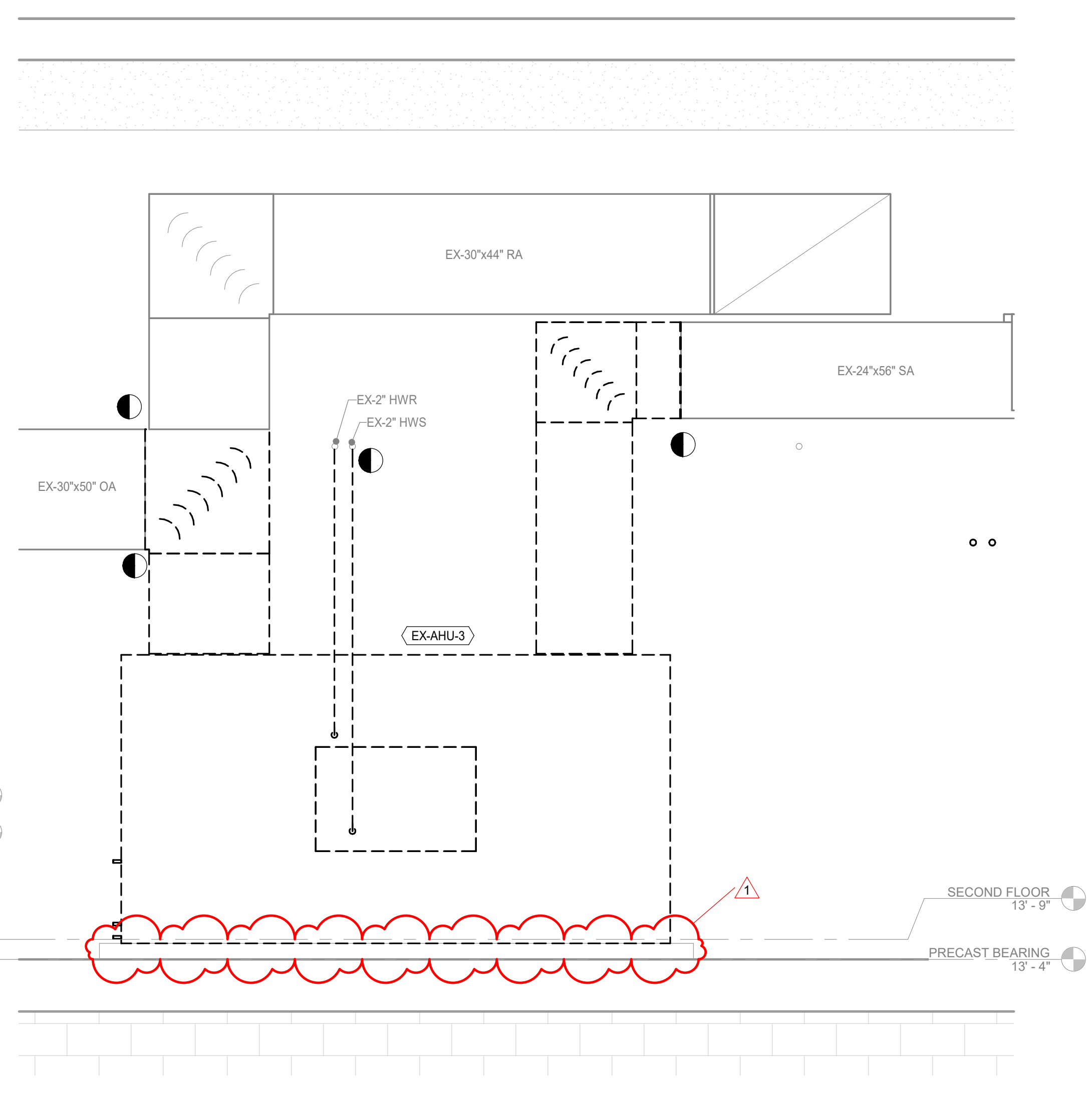
4 AHU-4 REMOVAL SECTION
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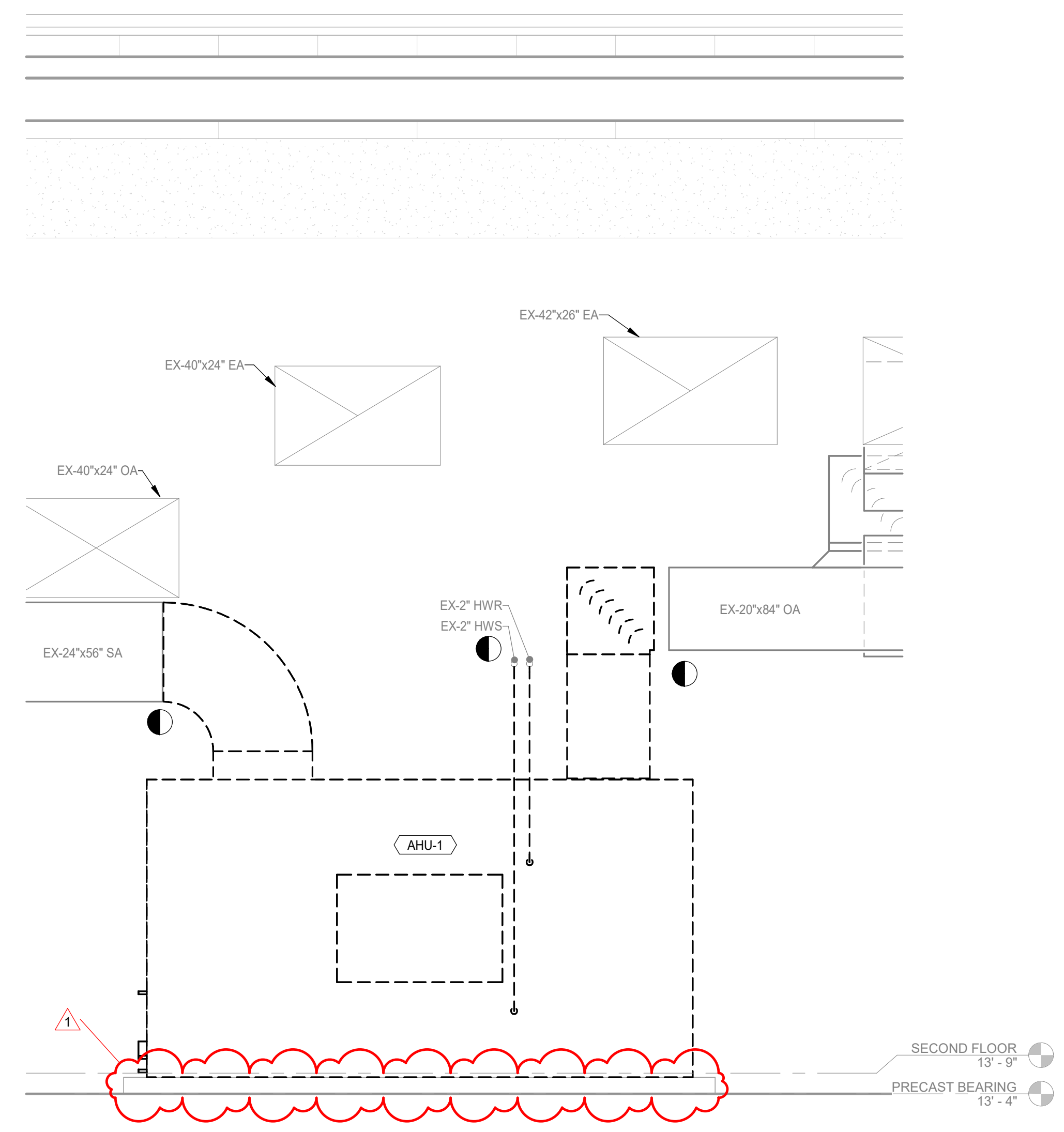
2 AHU-2 REMOVAL SECTION
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5 AHU-10,11,12,13 REMOVAL SECTION
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3 AHU-3 REMOVAL SECTION
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1 AHU-1 REMOVAL SECTION
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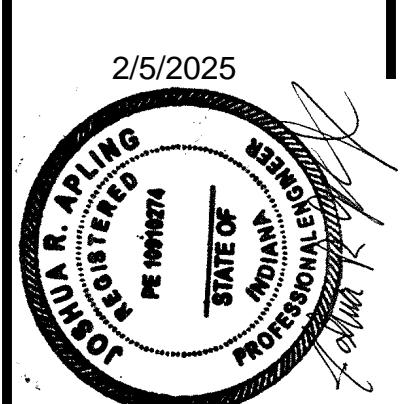
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NO.	REVISION	DATE
1	ADDENDUM #01	02/05/2025

DRAWN: CSH	CHKD: SJE	DATE: JANUARY 6, 2025	PROJECT NUMBER: 2363-1104-90
DESIGNED: CSH	APPRVD: JRA		

PORTER COUNTY BOARD OF COMMISSIONERS PORTER COUNTY SHERIFF'S OFFICE & JAIL FACILITY IMPROVEMENTS 2755 STATE ROAD 49	MECHANICAL
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MD4.2

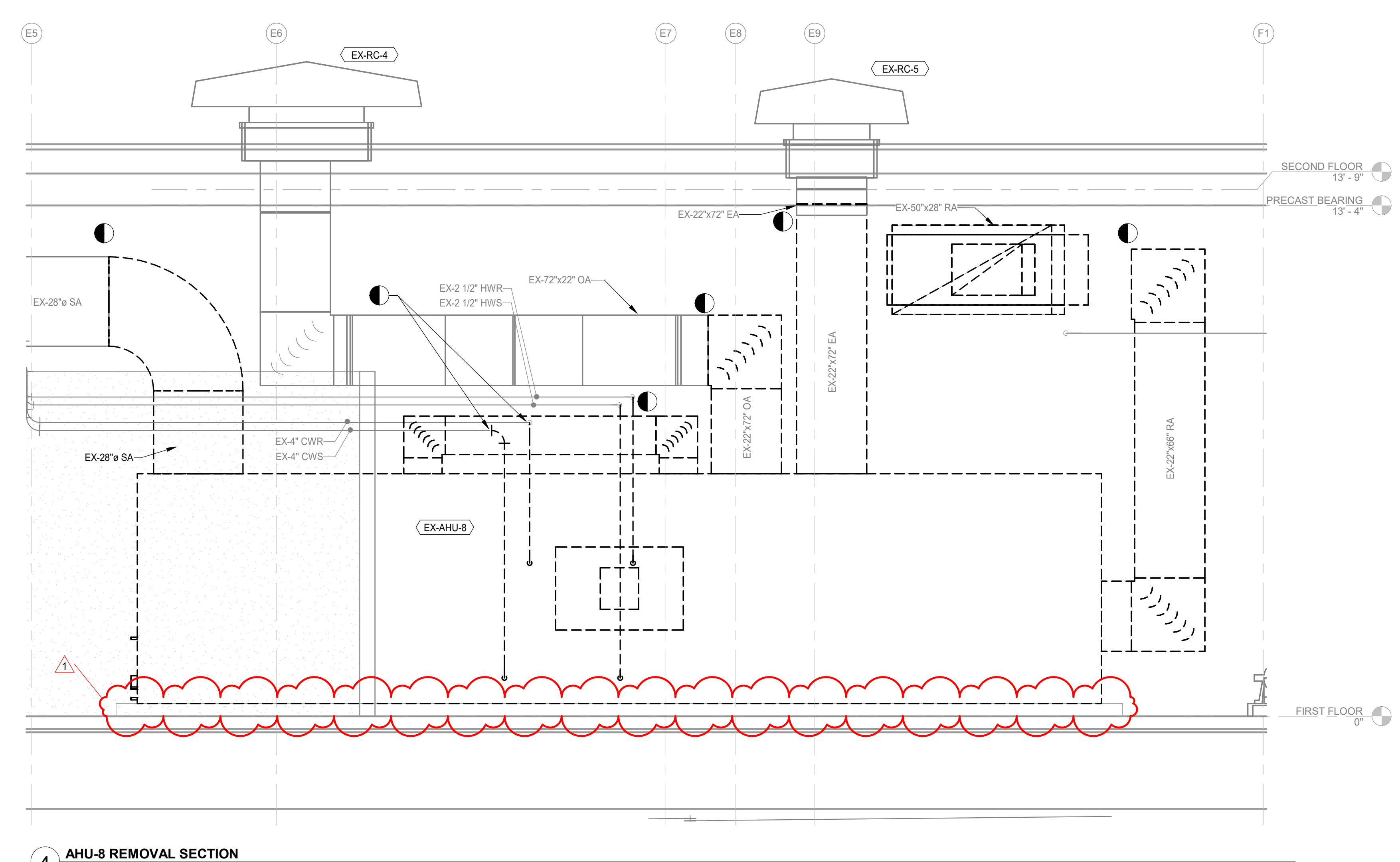


NO.	REVISION	DATE
1	ADDENDUM #01	02/05/2025

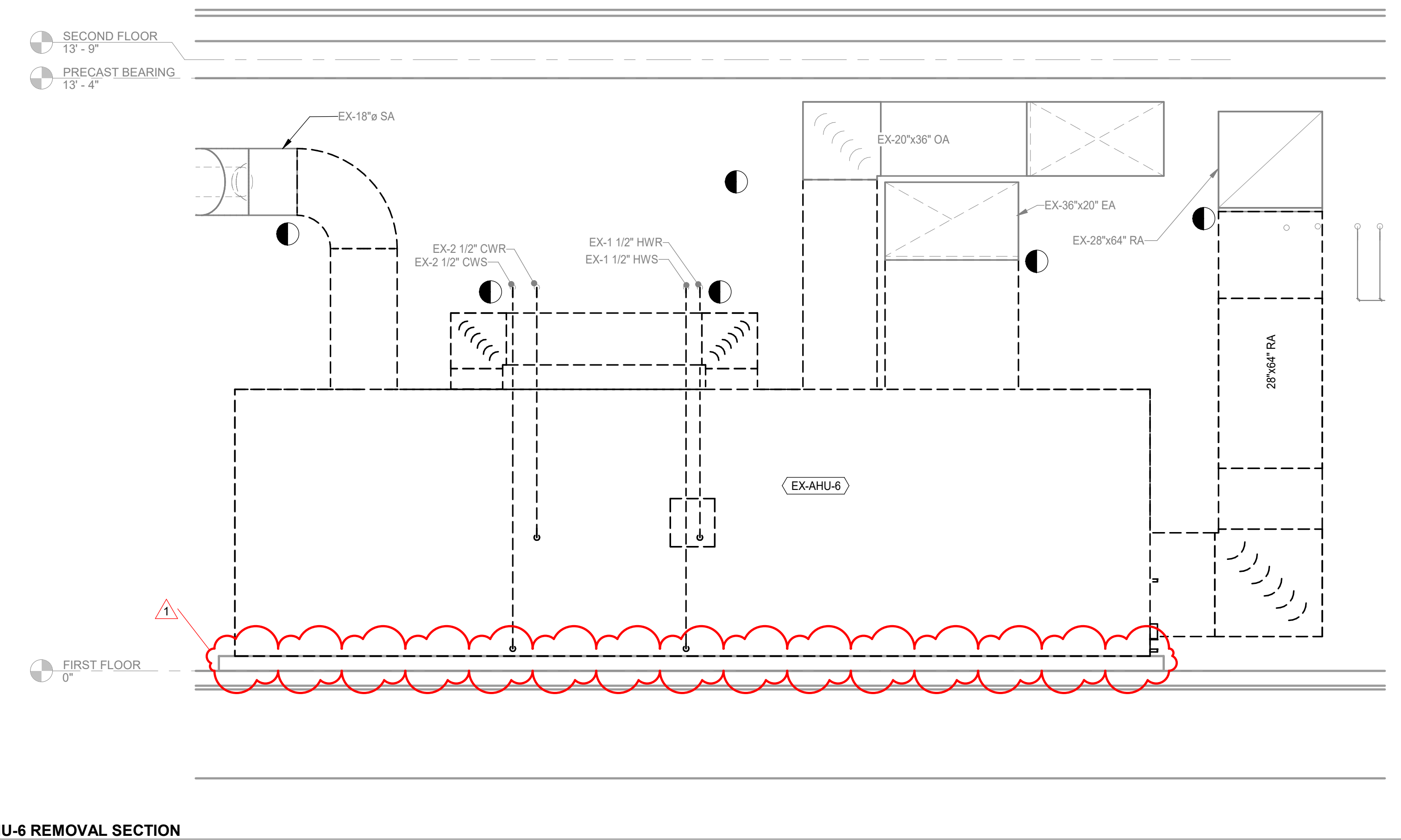
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DESIGNED: CSH	
APPROVD: JRA	
DATE: JANUARY 8, 2025	
PROJECT NUMBER	2363-1104-90

PORTER COUNTY BOARD OF COMMISSIONERS
 PORTER COUNTY SHERIFF'S OFFICE & JAIL
 FACILITY IMPROVEMENTS
 2755 STATE ROAD 49

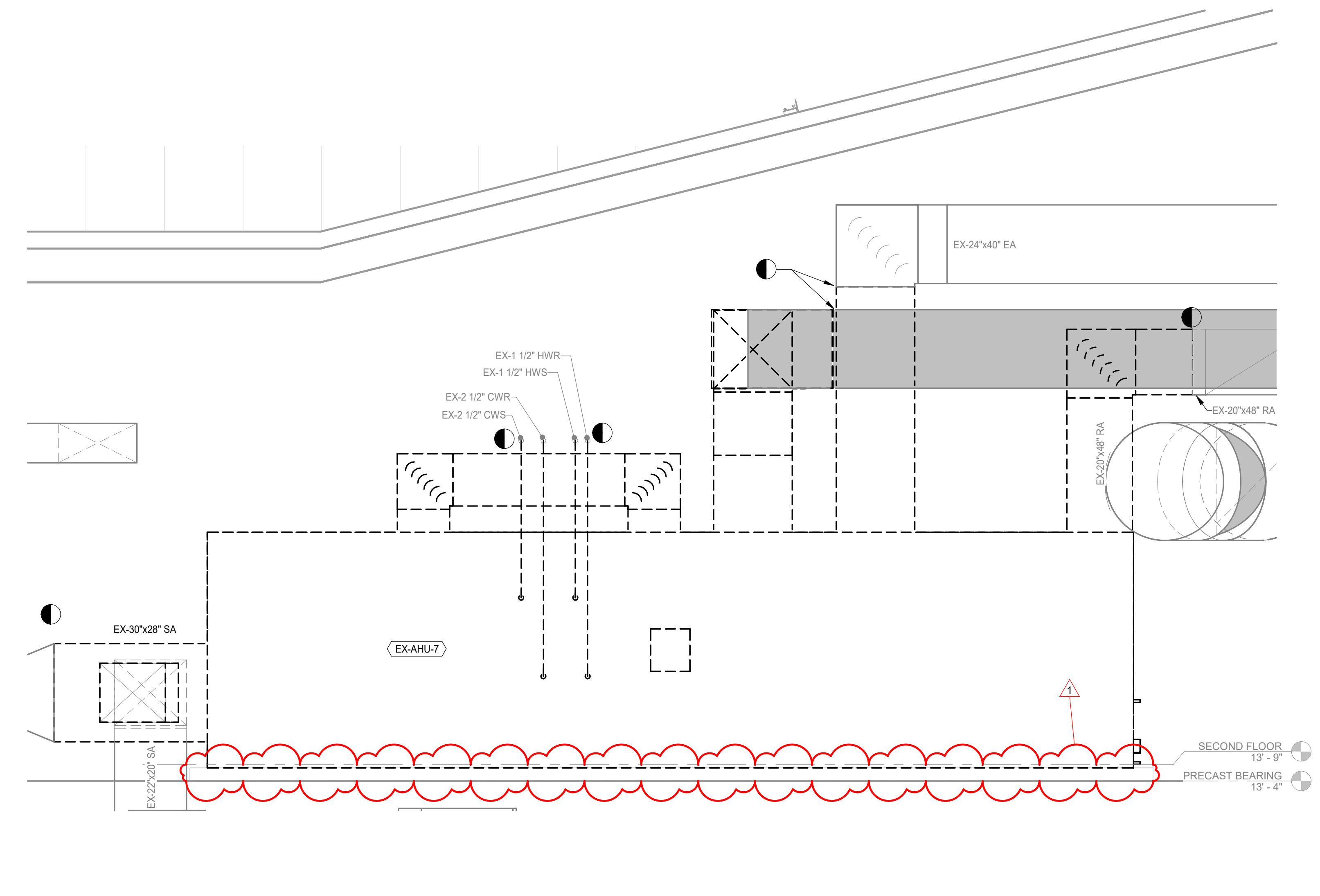
MECHANICAL
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MD4.3
 AHU REMOVAL SECTIONS II



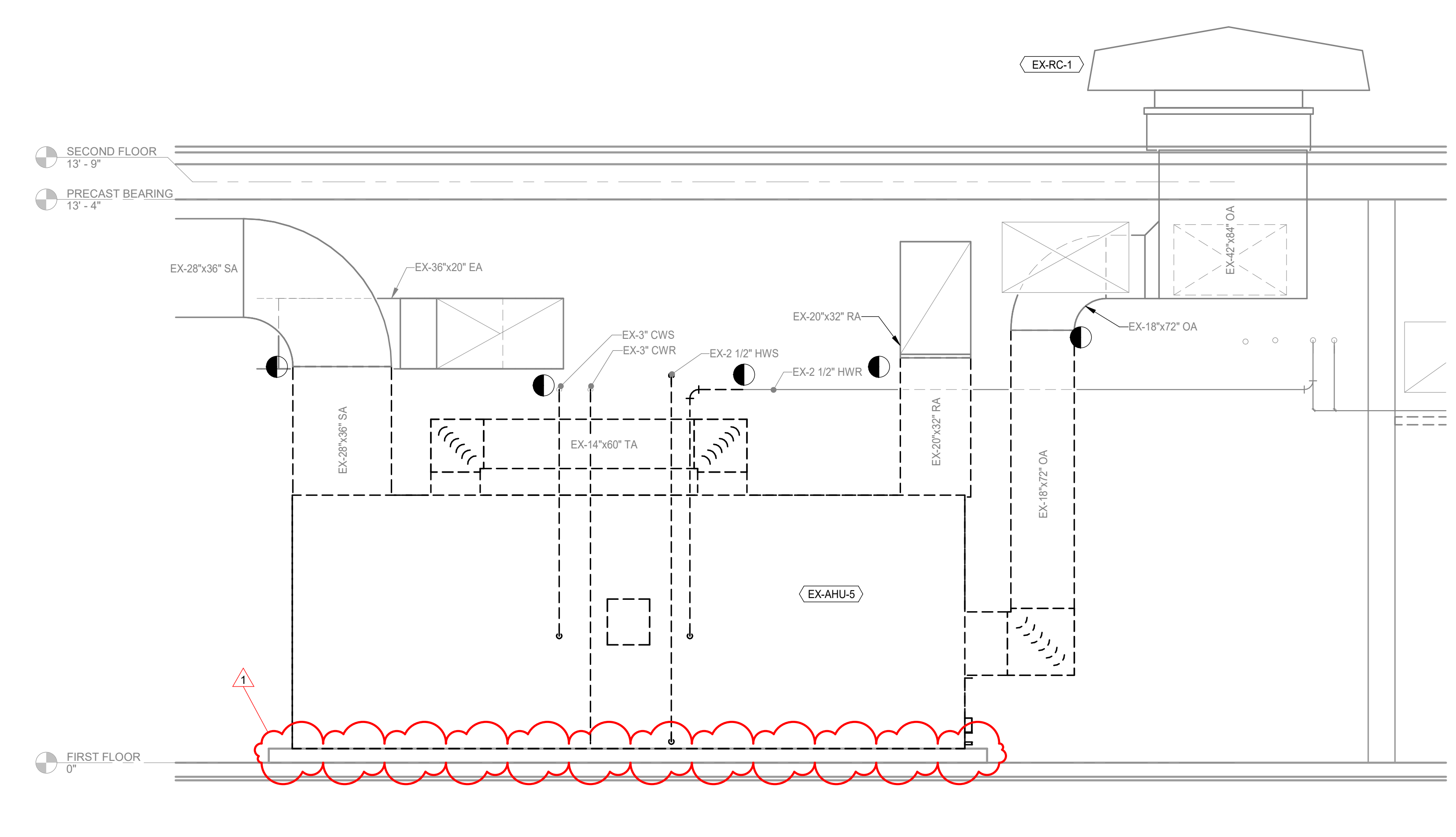
4 AHU-8 REMOVAL SECTION
 SCALE: 1/2" = 1'-0"



2 AHU-6 REMOVAL SECTION
 SCALE: 1/2" = 1'-0"

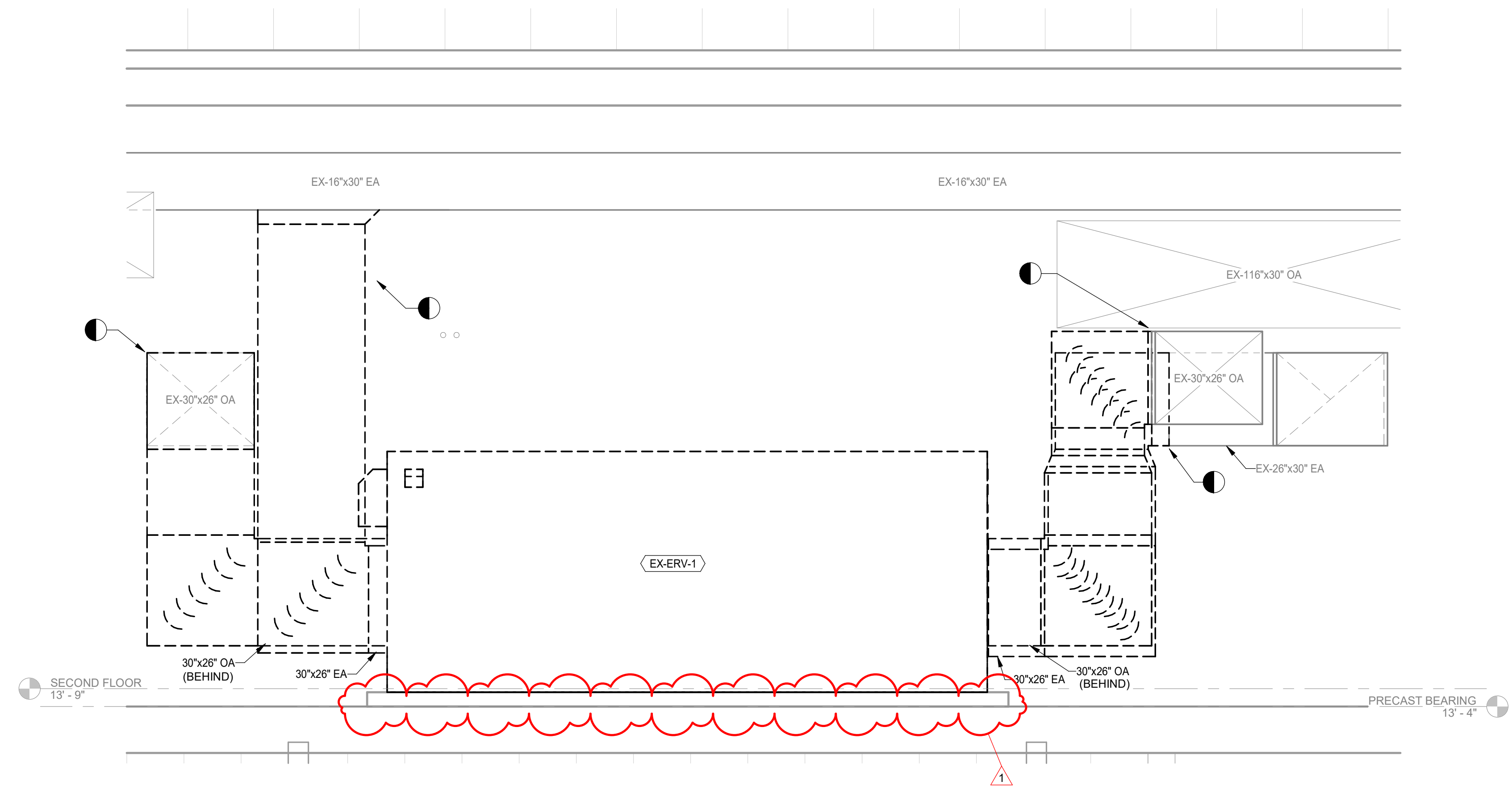


3 AHU-7 REMOVAL SECTION
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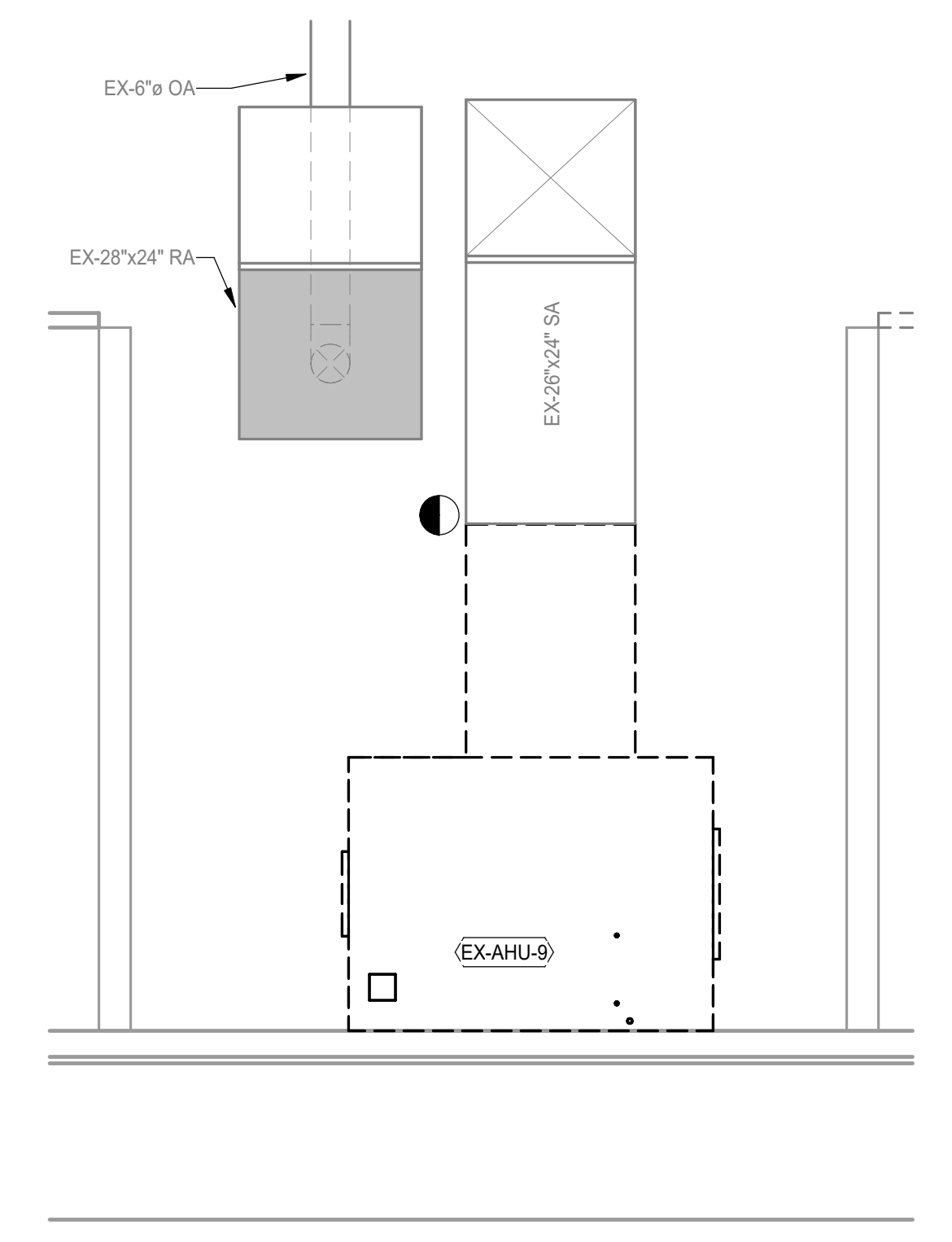


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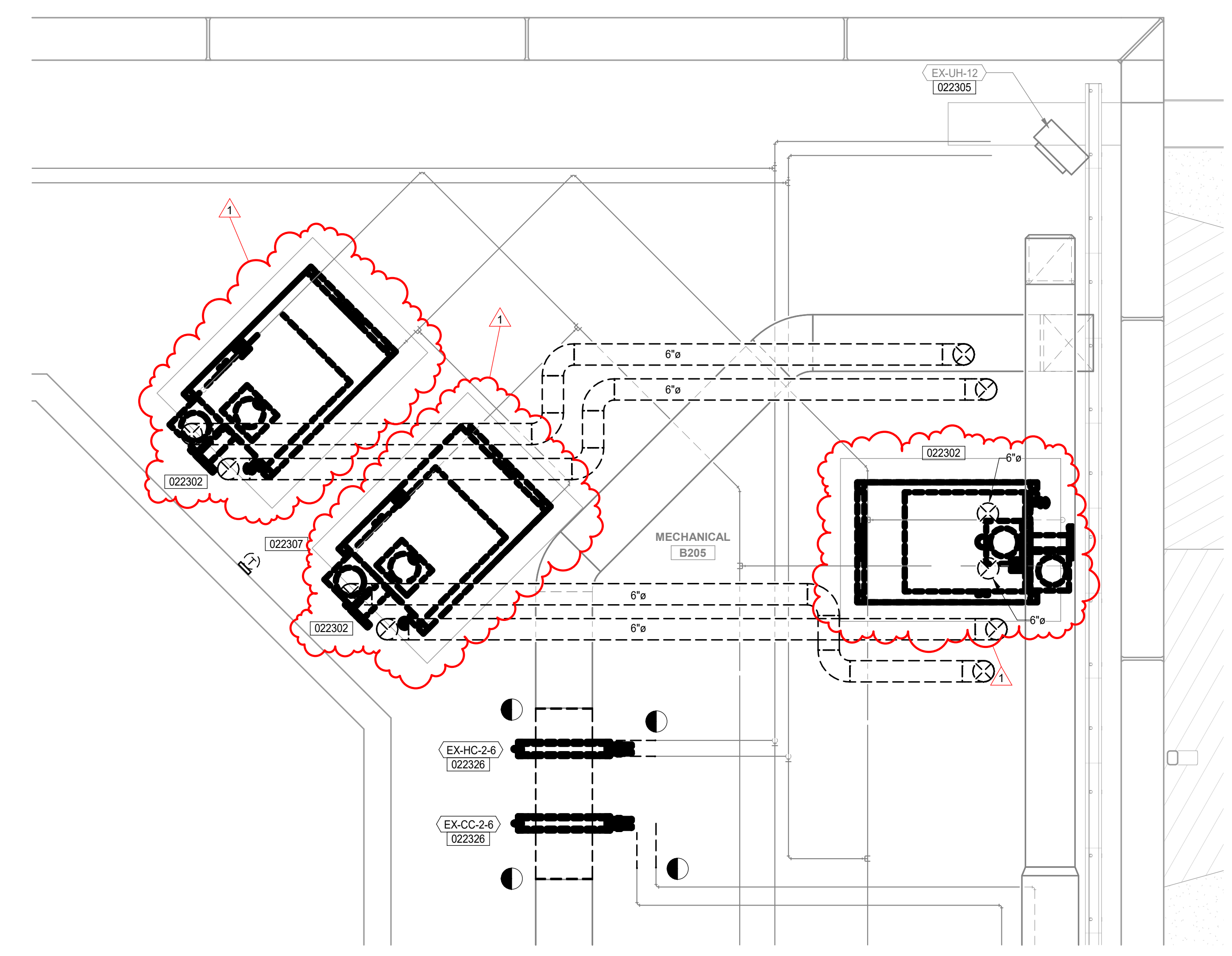
NOTE:
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 COLOR.



3 ERV-1 REMOVAL SECTION
SCALE: N.T.S.



2 AHU-9 REMOVAL SECTION
SCALE: N.T.S.



1 ENLARGED MECHANICAL DEMOLITION PLAN - MECHANICAL ROOM B205
SCALE: 1/2" = 1'-0"

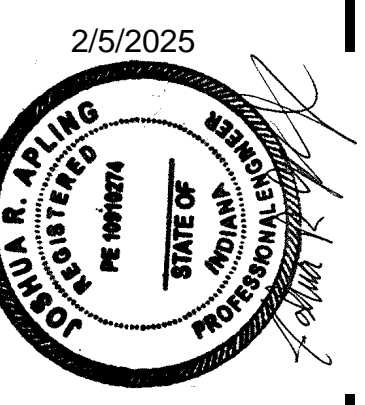
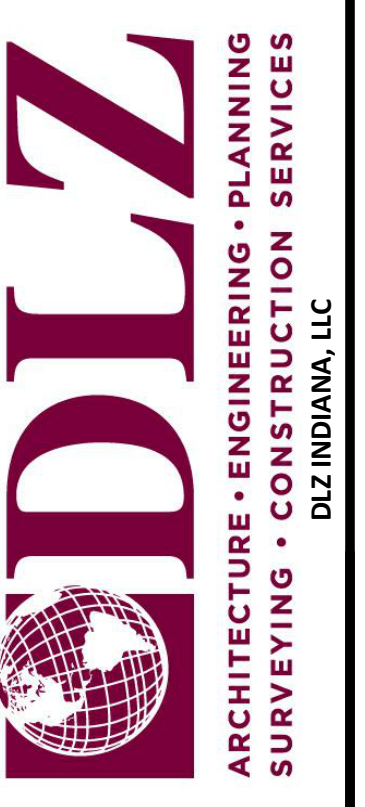
GENERAL NOTES

- A. REFER TO SHEETS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.
- B. DUCT AND PIPING LAYOUT ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS AND FITTINGS AS REQUIRED.
- C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENING AS REQUIRED ON SITE.
- D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.
- E. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
- F. REFER TO DETAILS SHEETS FOR ADDITIONAL INFORMATION ON INSTALLATION METHODS.
- G. ALL EXISTING CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES SHALL BE REMOVED AND REPLACED ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.
- H. PROVIDE NEW CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.

KEYNOTES

- 022302 REMOVE EXISTING BOILER AND ALL ASSOCIATED ACCESSORIES INCLUDING PUMPS. REMOVE EXISTING FLUE AND INTAKE AS INDICATED. REMOVE PIPING AS INDICATED. REMOVE FROM CONTROLS FRONT END. EQUIPMENT PAD EXISTING TO REMAIN.
- 022305 REMOVE EXISTING CONTROLS TO UNIT COMPLETE. REMOVE ALL ASSOCIATED TUBING OR WIRING SERVING UNIT CONTROLS. REMOVE UNIT FROM CONTROLS FRONT END.
- 022307 REMOVE EXISTING THERMOSTAT AND WIRING. CONTRACTOR TO FIELD VERIFY THERMOSTAT LOCATIONS.
- 022326 DISCONNECT AND REMOVE EXISTING DUCT MOUNTED COIL. REMOVE PIPING AND DUCTWORK TRANSITIONS TO UNIT. REMOVE EXISTING CONTROLS TO UNIT COMPLETE. REMOVE ALL ASSOCIATED WIRING SERVING CONTROLS. REMOVE UNIT FROM CONTROLS FRONT END.

NOTE:
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DATE	02/25/2025
REVISION	1 ADDENDUM B01
NO.	1
DRAWN: CSH	CHKD: SJS
DESIGNED: CSH	APPROVD: JRA
DATE: JANUARY 6, 2025	PROJECT NUMBER: 2363-1104-90

PORTER COUNTY BOARD OF COMMISSIONERS
 PORTER COUNTY SHERIFF'S OFFICE & JAIL
 FACILITY IMPROVEMENTS
 2755 STATE ROAD 49
 ENLARGED MECHANICAL REMOVAL PLAN AND AHU REMOVAL SECTIONS

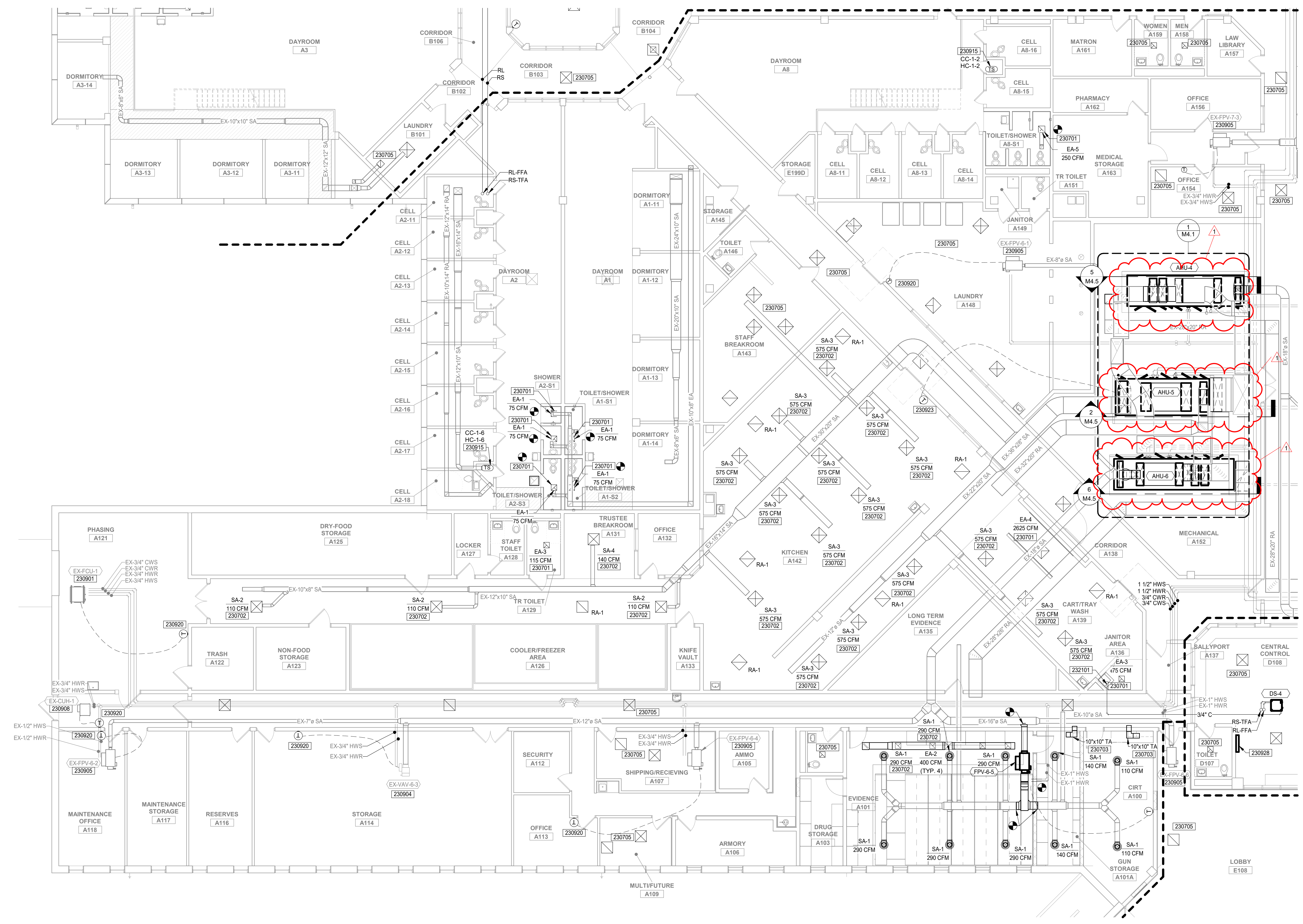
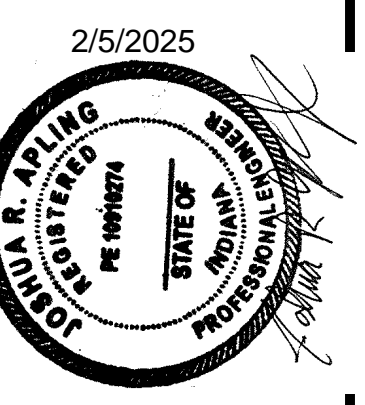
SHEET NUMBER
MD4.4
MECHANICAL

GENERAL NOTES

- A. REFER TO SHEETS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.
- B. DUCT AND PIPING LAYOUT ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS AND FITTINGS AS REQUIRED.
- C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENING AS REQUIRED ON SITE.
- D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.
- E. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
- F. REFER TO DETAILS SHEETS FOR ADDITIONAL INFORMATION ON INSTALLATION METHODS.
- G. ALL EXISTING CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES SHALL BE REMOVED AND REPLACED ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.
- H. PROVIDE NEW CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.

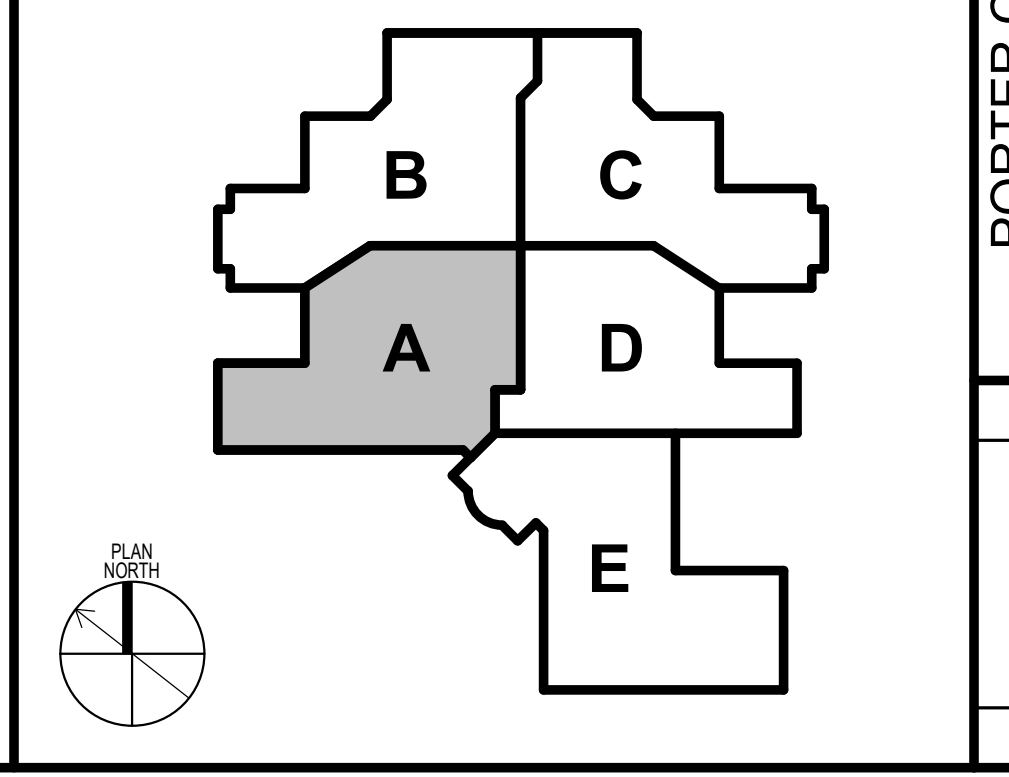
KEYNOTES

- 230701 CONNECT NEW GRILLE TO EXISTING EXHAUST DUCTWORK. LOCATE GRILLE TO ADJUST DUCTWORK AS MINIMALLY AS POSSIBLE.
- 230702 CONNECT NEW DIFFUSER TO EXISTING DUCTWORK. LOCATE DIFFUSER TO ADJUST DUCTWORK AS MINIMALLY AS POSSIBLE.
- 230703 PROVIDE ELBOW WITHOUT TURNING VANES FOR TRANSFER AIR DUCT.
- 230705 REINSTALL EXISTING DIFFUSERS AND GRILLES AND CONNECT TO EXISTING DUCTWORK IN ENTIRE SPACE. ALTERNATE BID: CONNECT NEW DIFFUSERS AND GRILLES TO EXISTING DUCTWORK. PROVIDE DIFFUSER OR GRILLE AS INDICATED ON AIR TERMINAL SCHEDULE.
- 230901 PROVIDE NEW CONTROLS FOR THE FAN COIL UNIT AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM AS PER 307.1.
- 230904 PROVIDE NEW CONTROLS FOR THE SHUTOFF TYPE VAV BOX AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 1M7.1.
- 230905 PROVIDE NEW CONTROLS FOR FAN POWERED TYPE VAV BOX AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 2M7.1.
- 230908 PROVIDE NEW CONTROLS FOR HYDRONIC UNIT HEATER AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 7M7.1.
- 230915 PROVIDE TEMPERATURE SENSOR INSIDE RETURN DUCTWORK. SENSOR TO CONTROL THE UNITS INDICATED.
- 230920 PROVIDE THERMOSTAT IN SAME LOCATION AS EXISTING. MATCH EXISTING WALL CONDITIONS AROUND THERMOSTAT IF DIMENSIONS DO NOT MATCH.
- 230923 PROVIDE NEW THERMOSTAT WITH SECURITY COVER. LOCATION INDICATED IS PLACEHOLDER. CONTRACTOR TO FIELD VERIFY THERMOSTAT LOCATION AND REPLACE EXISTING AT SAME LOCATION.
- 230928 PROVIDE NEW FIREFIGHTER SMOKE CONTROL PANEL IN CENTRAL CONTROL. CONTRACTOR TO CONFIRM LOCATION WITH EXISTING EQUIPMENT.
- 232101 ROUTE CONDENSATE LINE DOWN TO MOP SINK.



NOTE:
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KEYPLAN



FIRST FLOOR MECHANICAL INSTALLATION PLAN
SCALE: 1/8" = 1'-0"

DATE	REVISION	NO.	CHKD.	SJR.
02/25/2025	1	ADDENDUM B01		

DRAWN: CSH
 DESIGNED: CSH
 APPROVED: JRA
 DATE: JANUARY 6, 2025

PROJECT NUMBER
2363-1104-90

**PORTER COUNTY BOARD OF COMMISSIONERS
 PORTER COUNTY SHERIFF'S OFFICE & JAIL
 FACILITY IMPROVEMENTS**

2755 STATE ROAD 49
FIRST FLOOR MECHANICAL INSTALLATION PLAN - AREA A

SHEET NUMBER
M2.1A

MECHANICAL

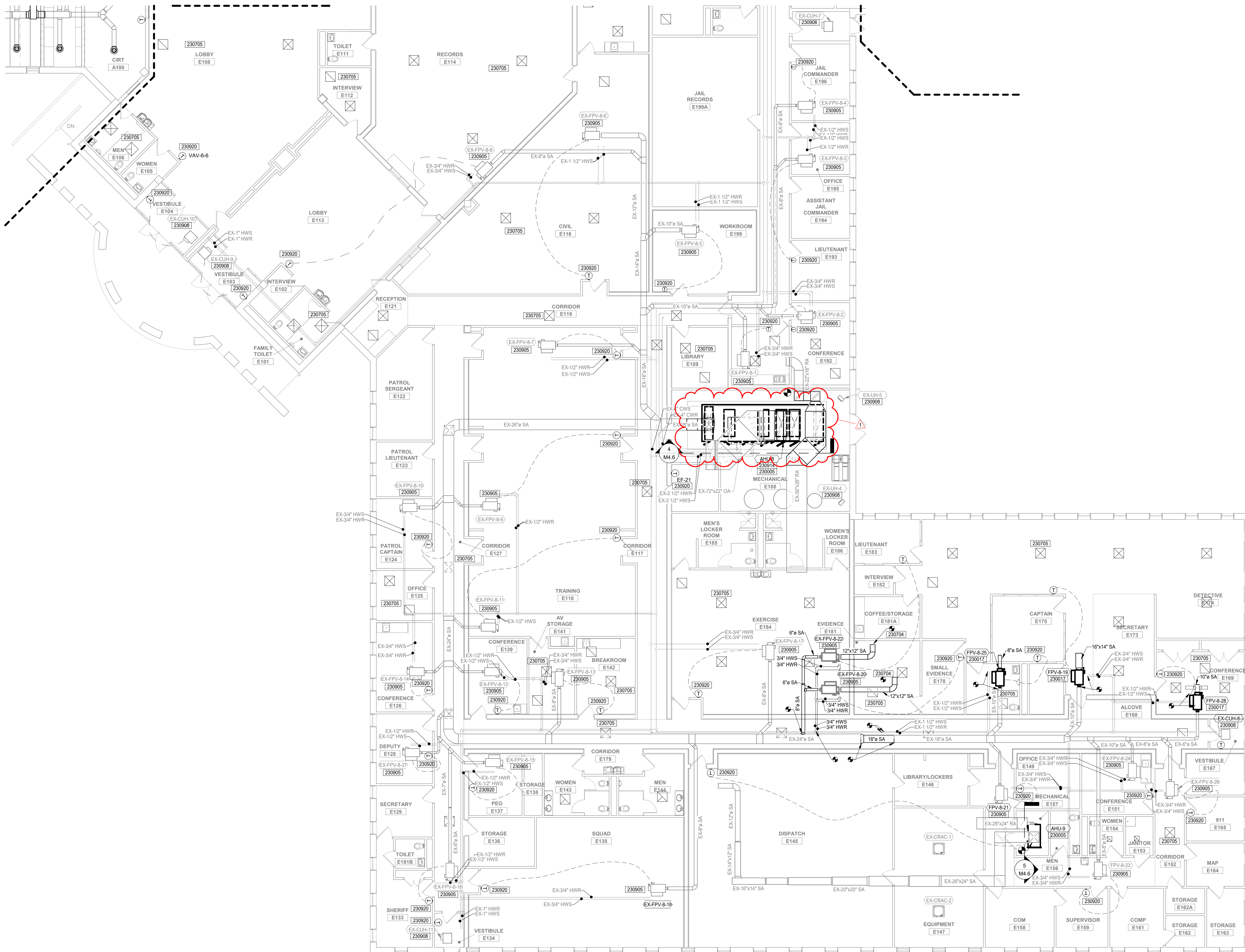
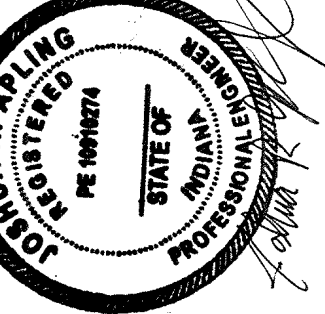
GENERAL NOTES

- A. REFER TO SHEETS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.
- B. DUCT AND PIPING LAYOUT ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS AND FITTINGS AS REQUIRED.
- C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENING AS REQUIRED ON SITE.
- D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.
- E. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
- F. REFER TO DETAILS SHEETS FOR ADDITIONAL INFORMATION ON INSTALLATION METHODS.
- G. ALL EXISTING CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES SHALL BE REMOVED AND REPLACED ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.
- H. PROVIDE NEW CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.

KEYNOTES

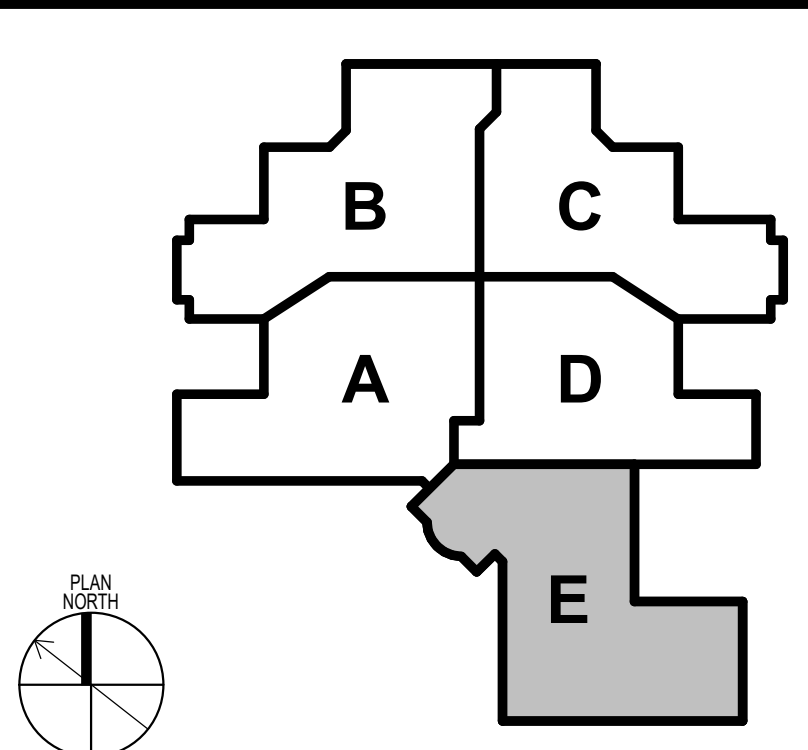
- 230005 INSTALL NEW AHU IN PLACE OF EXISTING AHU. CONNECT TO EXISTING DUCTWORK AND PIPING AS SHOWN. RESIZE EQUIPMENT PAD AS NECESSARY TO MAINTAIN 6" SPACE AROUND PERIMETER OF EQUIPMENT. REFER TO M SERIES FOR MORE INFORMATION.
- 230017 CONNECT NEW VAV BOX TO EXISTING DUCTWORK AND PIPING. PROVIDE NEW CONTROLS FOR FAN POWERED TYPE VAV BOX AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 2M7.1.
- 230704 INSTALL NEW DUCTWORK FROM FPV TO EXISTING. YIELD VERIFY TO MATCH TO EXISTING DUCTWORK SIZE.
- 230705 REINSTALL EXISTING DIFFUSERS AND GRILLES AND CONNECT TO EXISTING DUCTWORK IN ENTIRE SPACE. ALTERNATE BID: CONNECT NEW DIFFUSERS AND GRILLES TO EXISTING DUCTWORK. PROVIDE DIFFUSER OR GRILLE AS INDICATED ON AIR TERMINAL SCHEDULE.
- 230905 PROVIDE NEW CONTROLS FOR FAN POWERED TYPE VAV BOX AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 2M7.1.
- 230908 PROVIDE NEW CONTROLS FOR HYDRONIC UNIT HEATER AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 7M7.1.
- 230914 PROVIDE NEW CONTROLS FOR VAV AHU AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 2M7.5.
- 230920 PROVIDE THERMOSTAT IN SAME LOCATION AS EXISTING. MATCH EXISTING WALL CONDITIONS AROUND THERMOSTAT IF DIMENSIONS DO NOT MATCH.

2/5/2025



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KEYPLAN



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DATE	02/05/2025
REVISION	
NO.	1
DESCRIPTION	ADDENDUM B1
DATE	JANUARY 6, 2025
PROJECT NUMBER	2363-1104-90
PORTER COUNTY BOARD OF COMMISSIONERS PORTER COUNTY SHERIFF'S OFFICE & JAIL FACILITY IMPROVEMENTS	
2355 STATE ROAD 49	
FIRST FLOOR MECHANICAL INSTALLATION PLAN - AREA E	
M2.1E	
MECHANICAL	

DATE	REVISION	NO.	CHKD.	SJR.
02/05/2025	1	ADDENDUM B01		

DRAWN: CSH	DESIGNED: CSH	DATE: JANUARY 9, 2025
APPROVED: JRA		

PROJECT NUMBER	2363-1104-90
PROJECT NAME	PORTER COUNTY BOARD OF COMMISSIONERS PORTER COUNTY SHERIFF'S OFFICE & JAIL FACILITY IMPROVEMENTS 2755 STATE ROAD 49
SHEET NUMBER	M2.2B
MECHANICAL	

GENERAL NOTES

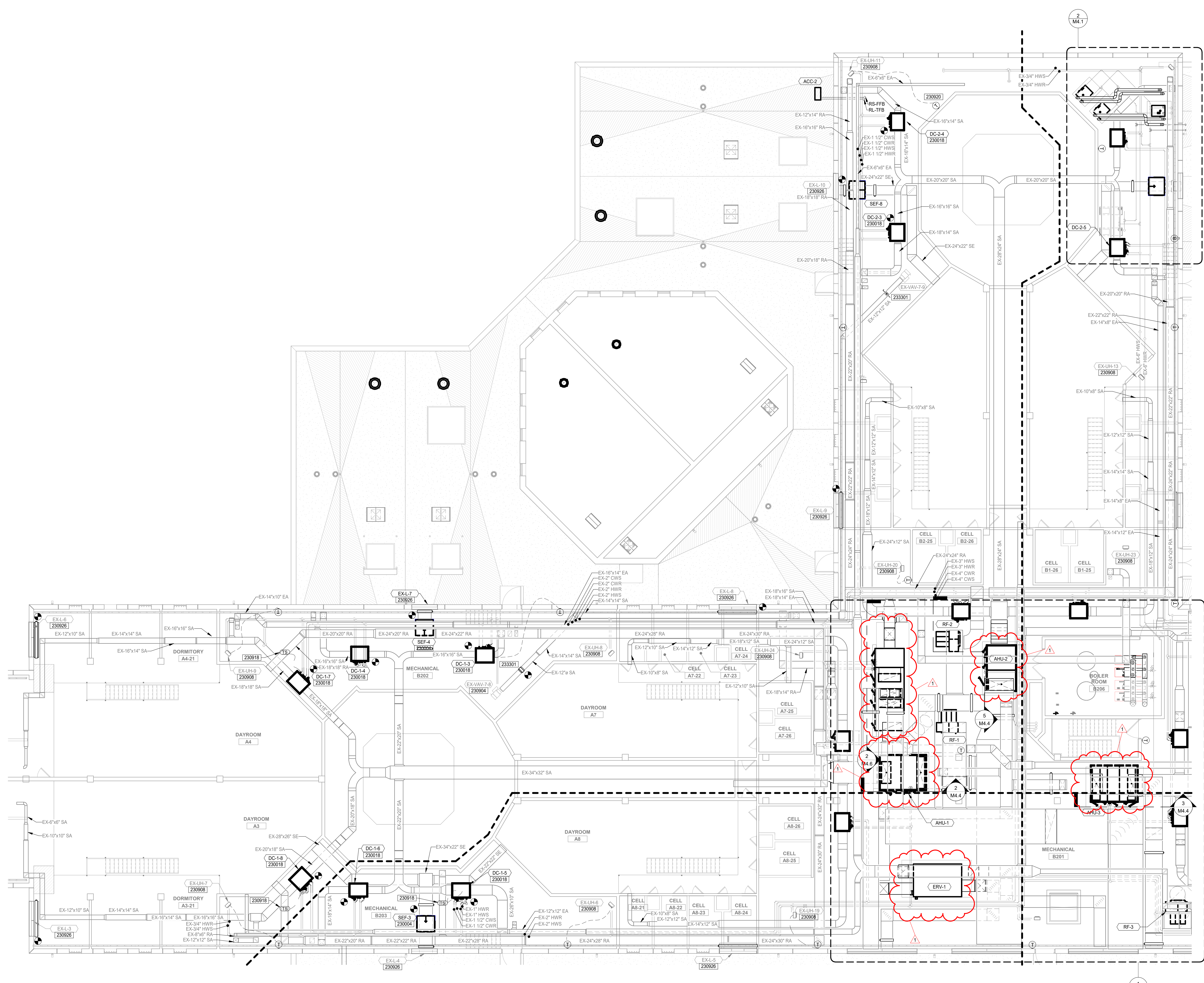
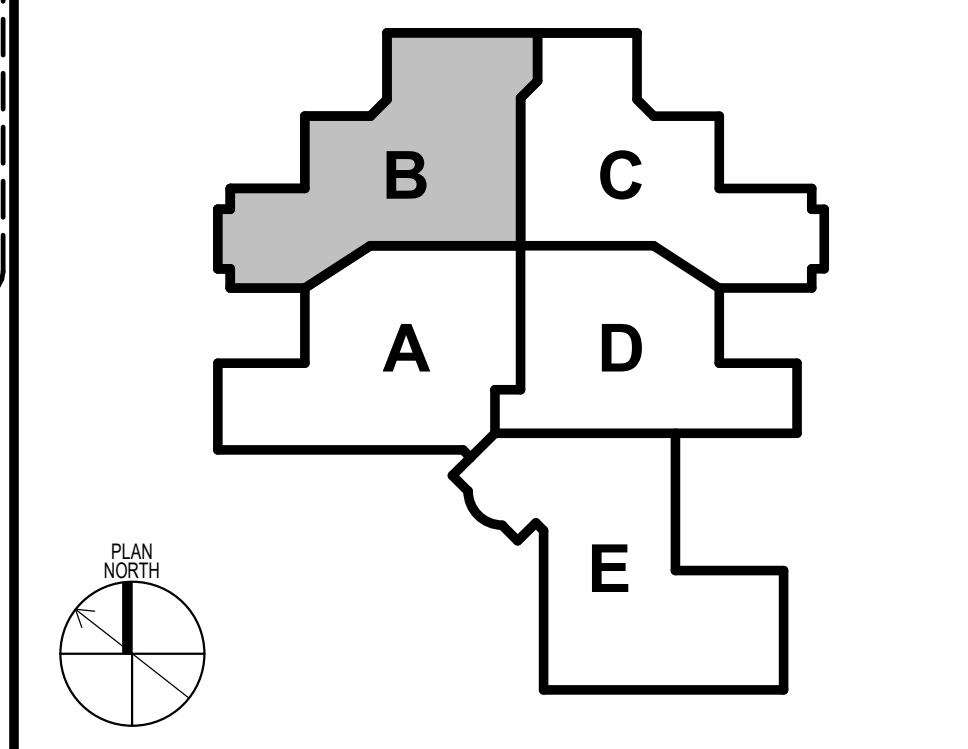
- REFER TO SHEETS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.
- DUCT AND PIPING LAYOUT ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS AND FITTINGS AS REQUIRED.
- COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENING AS REQUIRED ON SITE.
- COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.
- DO NOT SCALE DRAWINGS FOR DIMENSIONS.
- REFER TO DETAILS SHEETS FOR ADDITIONAL INFORMATION ON INSTALLATION METHODS.
- ALL EXISTING CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES SHALL BE REMOVED AND REPLACED ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.
- PROVIDE NEW CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.

KEYNOTES

- INSTALL NEW SMOKE EXHAUST FAN IN PLACE OF EXISTING SMOKE EXHAUST FAN. PROVIDE CURB ADAPTER AS NEEDED. SYSTEM COMPONENTS, CONTROLS, AND WIRING TO MEET REQUIREMENT OF UL-864. CONNECT TO EXISTING DUCTWORK. INTERFACE WITH NEW EMS INTERFACES AS PER CONTROLS SCHEMATIC M7.2.
- CONNECT NEW DUCT MOUNTED COIL BOX TO EXISTING DUCTWORK AND PIPING. PROVIDE DUCT MOUNTED ACCESS DOOR UPSTREAM OF BOX. PROVIDE NEW CONTROLS FOR DUCT MOUNTED COILS AS PER CONTROLS SCHEMATIC M7.2.
- PROVIDE NEW CONTROLS FOR THE SHUTOFF TYPE VAV BOX AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 1M7.1.
- PROVIDE NEW CONTROLS FOR HYDRONIC UNIT HEATER AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 7M7.1.
- PROVIDE TEMPERATURE SENSOR INSIDE RETURN DUCTWORK. REPAIR OR REPLACE INSULATION AFFECTED BY TEMPERATURE SENSOR INSTALLATION. SENSOR TO CONTROL THE UNITS INDICATED.
- PROVIDE THERMOSTAT IN SAME LOCATION AS EXISTING. MATCH EXISTING WALL CONDITIONS AROUND THERMOSTAT IF DIMENSIONS DO NOT MATCH.
- PROVIDE NEW CONTROLS FOR EXISTING LOUVERS. REFER TO M7.7/M7.8 FOR CONTROLS.
- PROVIDE NEW SMOKE DAMPER ON DUCT UPSTREAM OF VAV BOX. REFER TO M7.7/M7.8 FOR CONTROLS.

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KEYPLAN



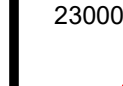
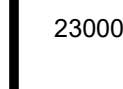

1 SECOND FLOOR MECHANICAL INSTALLATION PLAN
 SCALE: 1/8" = 1'-0"
 NORTH

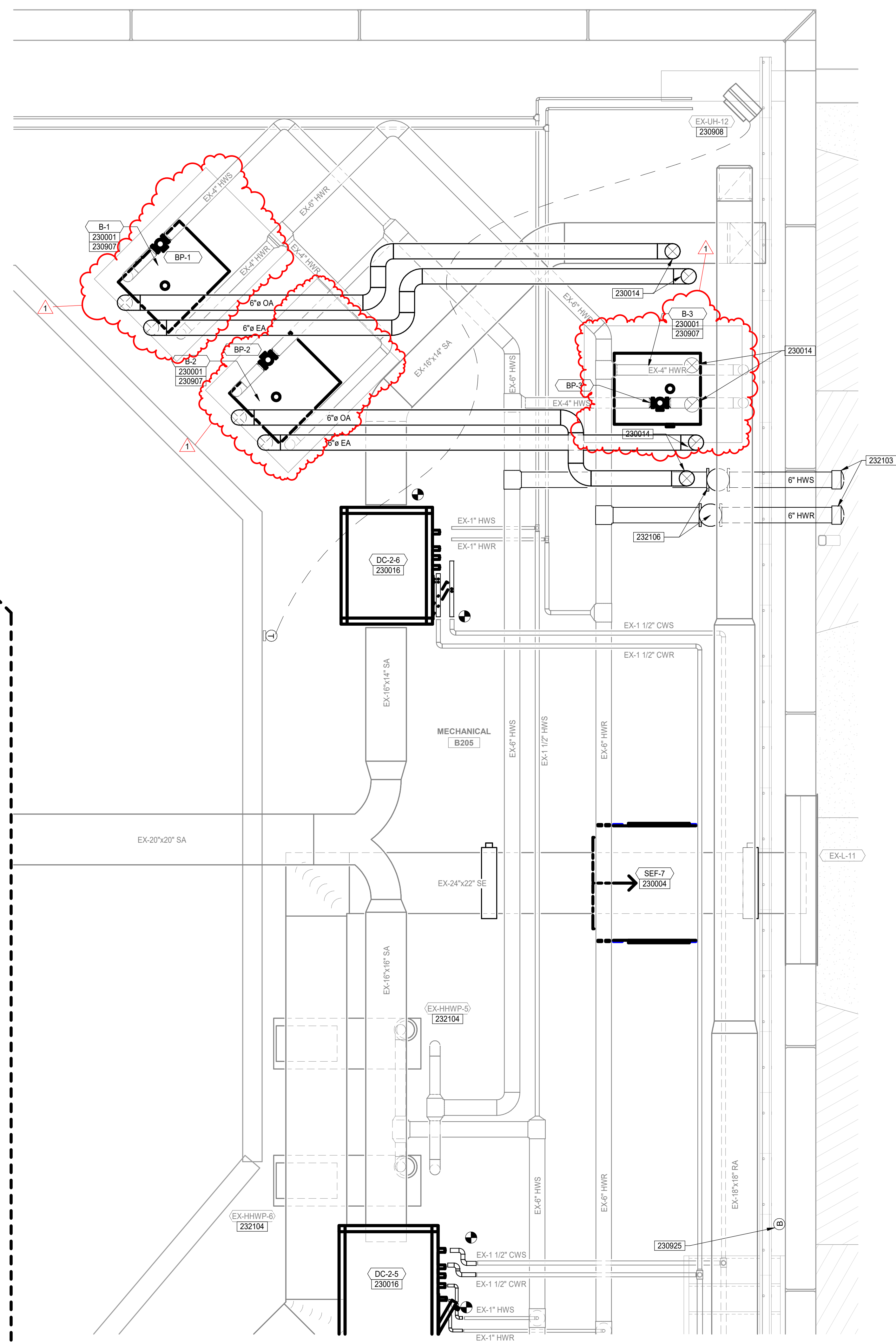
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GENERAL NOTES

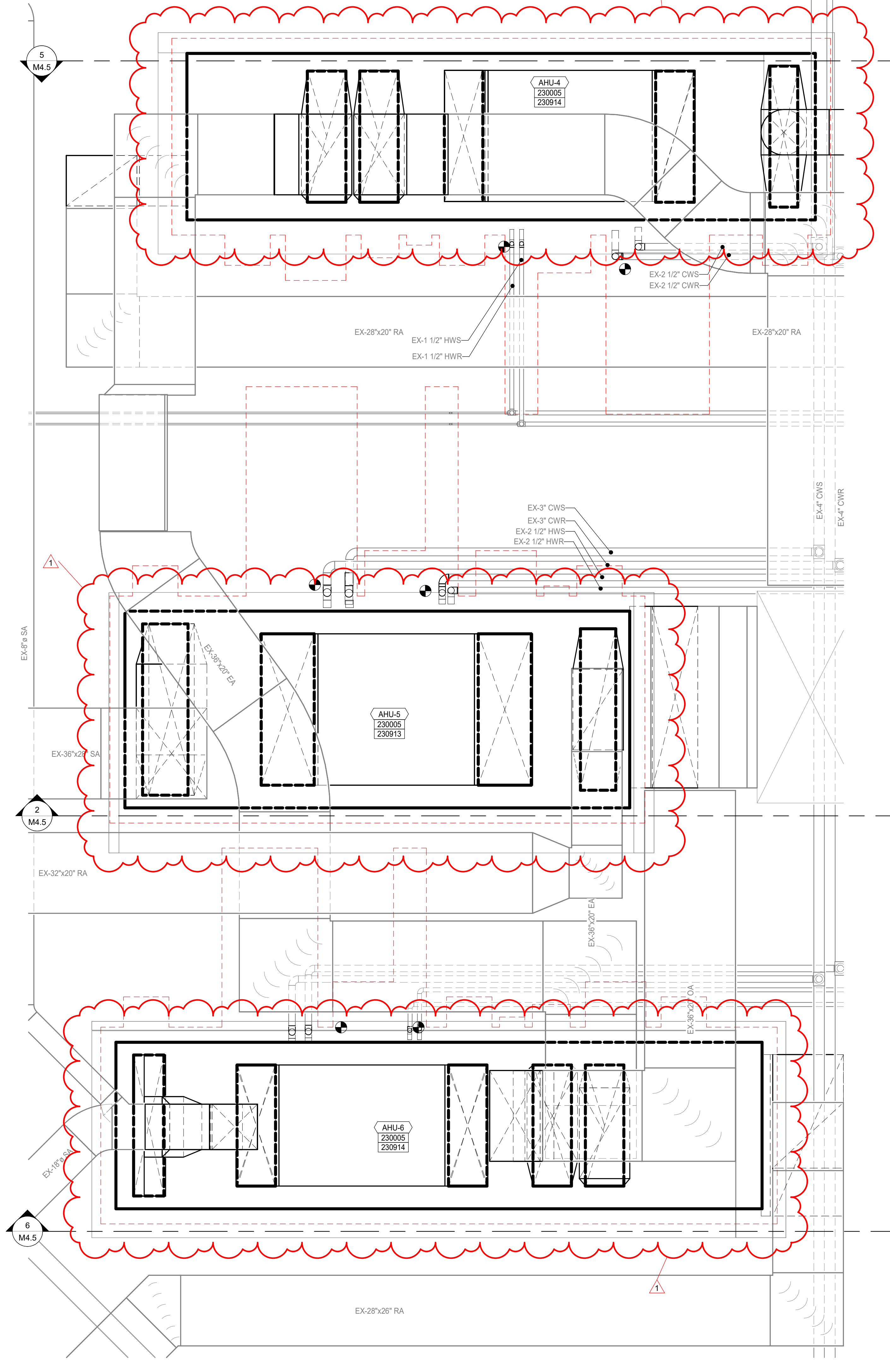
- A. REFER TO SHEETS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.
- B. DUCT AND PIPING LAYOUT ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS AND FITTINGS AS REQUIRED.
- C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENING AS REQUIRED ON SITE.
- D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.
- E. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
- F. REFER TO DETAILS SHEETS FOR ADDITIONAL INFORMATION ON INSTALLATION METHODS.
- G. ALL EXISTING CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES SHALL BE REMOVED AND REPLACED ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.
- H. PROVIDE NEW CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.

KEYNOTES

- 230001  INSTALL NEW BOILERS IN PLACE OF EXISTING UNITS. RESIZE EQUIPMENT PAD AS NECESSARY TO MAINTAIN 6" SPACE AROUND PERIMETER OF EQUIPMENT. REBALANCE EXISTING RISE PUMPS.
- 230004  INSTALL NEW SMOKE EXHAUST FAN IN PLACE OF EXISTING SMOKE EXHAUST FAN. PROVIDE CURB ADAPTER AS NEEDED. SYSTEM COMPONENTS, CONTROLS, AND WIRING TO MEET REQUIREMENT OF UL-864. CONNECT TO EXISTING DUCTWORK. INTERFACE WITH NEW BMS INTERFACE AS PER CONTROLS ON SHEETS M7.7 AND M7.8.
- 230005  INSTALL NEW AHU IN PLACE OF EXISTING AHU. CONNECT TO EXISTING DUCTWORK AND PIPING AS SHOWN. REBALANCE EQUIPMENT PAD AS NECESSARY TO MAINTAIN 6" SPACE AROUND PERIMETER OF EQUIPMENT. REFER TO M.4 SERIES FOR MORE INFORMATION.
- 230014 REUSE EXISTING PENETRATIONS FROM PREVIOUS BOILER FLUES FOR NEW FLUES / COMBUSTION AIR INTAKES.
- 230016 INSTALL NEW DUCT MOUNTED COILS IN PLACE OF EXISTING. CONNECT TO EXISTING PIPING AND DUCTWORK. PROVIDE DUCT TRANSITIONS AS NECESSARY TO CONNECT TO EQUIPMENT. PROVIDE NEW CONTROLS AS PER DETAIL 5/M7.2.
- 230907 PROVIDE NEW CONTROLS FOR HYDRONIC HOT WATER SYSTEM AND INTERFACE WITH NEW BUILDING MANAGEMENT SYSTEM. REFER TO 1.2/M7.4 FOR ADDITIONAL INFORMATION.
- 230908 PROVIDE NEW CONTROLS FOR HYDRONIC UNIT HEATER AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 7/M7.1.
- 230913 PROVIDE NEW CONTROLS FOR CONSTANT VOLUME AHU AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 1/M7.5.
- 230914 PROVIDE NEW CONTROLS FOR VAV AHU AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 2/M7.5.
- 230925 PROVIDE NEW EMERGENCY BOILER SHUTOFF BUTTON NEAR EXIT. MOUNT BUTTON 4'-8" A.F.F. PER IFC SECTION 606. PROVIDE CONTROLS TO ALLOW FOR EMERGENCY SHUTOFF THROUGH CENTRAL WORKSTATION.
- 232103 PROVIDE STUB-OUT WITH SHUTOFF VALVES FOR EMERGENCY HEATING HOT WATER CONNECTION. CAP OPEN ENDS.
- 232104 REBALANCE PUMPS AFTER INSTALLATION OF NEW BOILERS AND AIR HANDLING UNITS.
- 232106 SHUTOFF VALVE.



2 ENLARGED MECHANICAL INSTALLATION PLAN - MECHANICAL ROOM B205
 SCALE: 1/2" = 1'-0"
 NORTH



1 MECH INSTALLATION PLAN - MECH ROOM A152
 SCALE: 1/2" = 1'-0"
 NORTH

NOTE:
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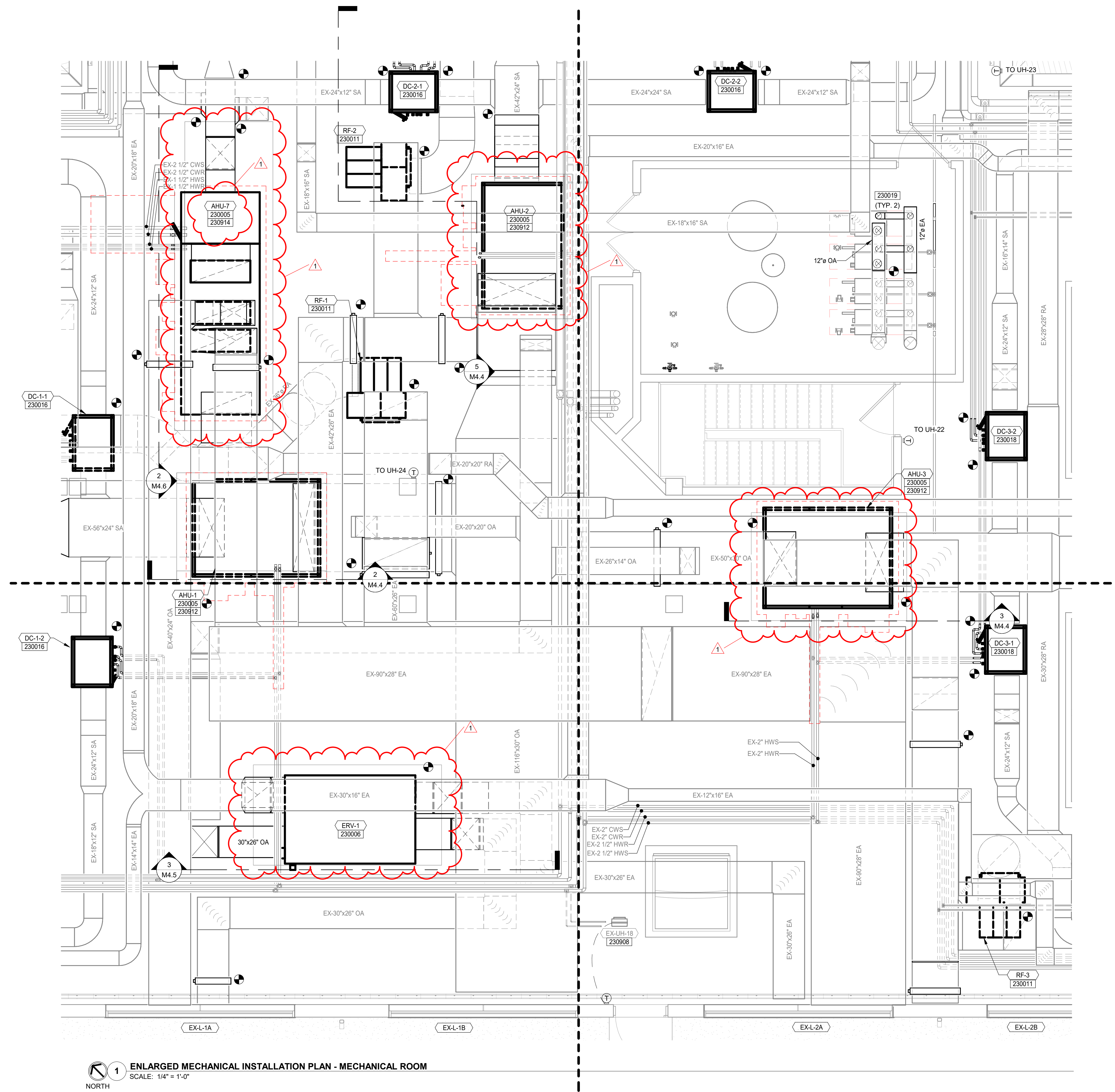
NO.	REVISION	DATE
1	ADDENDUM B01	02/05/2025

NO.	CHKD.	SJR.
DESIGNED:	CSH	
APPROVD:	JRA	
DATE:	JANUARY 6, 2025	

PORTER COUNTY BOARD OF COMMISSIONERS
 PORTER COUNTY SHERIFF'S OFFICE & JAIL
 FACILITY IMPROVEMENTS
 2755 STATE ROAD 49
 PROJECT NUMBER
2363-1104-90

ENLARGED PLANS
 SHEET NUMBER
M4.1
 MECHANICAL

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ENLARGED MECHANICAL INSTALLATION PLAN - MECHANICAL ROOM
SCALE: 1/4" = 1'-0"
NORTH

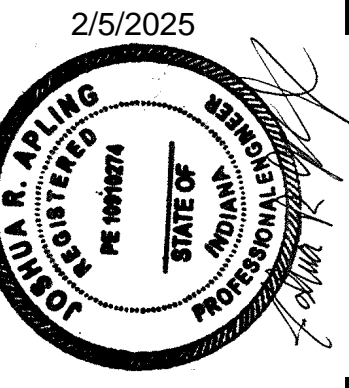
GENERAL NOTES

- A. REFER TO SHEETS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.
- B. DUCT AND PIPING LAYOUT ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS AND FITTINGS AS REQUIRED.
- C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENING AS REQUIRED ON SITE.
- D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.
- E. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
- F. REFER TO DETAILS SHEETS FOR ADDITIONAL INFORMATION ON INSTALLATION METHODS.
- G. ALL EXISTING CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES SHALL BE REMOVED AND REPLACED ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.
- H. PROVIDE NEW CONTROLS INCLUDING SENSORS, CONTROL VALVES, ACTUATORS, PANELS, VFD'S, AND OTHER APPURTENANCES ACCORDING TO SCHEMATICS ON CONTROL DRAWINGS.

KEYNOTES

- 230005 ▲ INSTALL NEW AHU IN PLACE OF EXISTING AHU. CONNECT TO EXISTING DUCTWORK AS SHOWN. RESIZE EQUIPMENT PAD AS NECESSARY TO MAINTAIN 6" SPACE AROUND PERIMETER OF EQUIPMENT. REFER TO M4.2 FOR MORE INFORMATION.
- 230006 INSTALL NEW ERV IN PLACE OF EXISTING ERV. CONNECT TO EXISTING DUCTWORK AS SHOWN. INTERFACE WITH NEW BMS SYSTEM AS PER CONTROLS ON SHEET 4/M7.2.
- 230011 INSTALL NEW RETURN FAN IN PLACE OF EXISTING RETURN FAN. CONNECT TO EXISTING DUCTWORK AS SHOWN. INTERFACE WITH NEW BMS SYSTEM AS PER CONTROLS ON 1/M7.2.
- 230016 INSTALL NEW DUCT MOUNTED COILS IN PLACE OF EXISTING. CONNECT TO EXISTING DUCTWORK AND DUCTWORK. PROVIDE DUCT TRANSITIONS AS NECESSARY TO CONNECT TO EQUIPMENT. PROVIDE NEW CONTROLS AS PER DETAIL 5/M7.2.
- 230018 CONNECT NEW DUCT MOUNTED COIL BOX TO EXISTING DUCTWORK AND PIPING. PROVIDE DUCT MOUNTED ACCESS DOOR UPSTREAM OF BOX. PROVIDE NEW CONTROLS FOR DUCT MOUNTED COILS AS PER CONTROLS SCHEMATIC 5/M7.2.
- 230019 CONNECT WATER HEATER EXHAUST FLUE AND INTAKE TO EXISTING EXHAUST/INTAKE DUCTWORK. REUSE EXISTING ROOF PENETRATIONS. SIZE AND INSTALL FLUE AND INTAKE AS PER MANUFACTURER RECOMMENDATIONS.
- 230908 PROVIDE NEW CONTROLS FOR HYDRONIC UNIT HEATER AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 7/M7.1.
- 230912 PROVIDE NEW CONTROLS FOR CONSTANT VOLUME AHU AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 1/M7.2.
- 230914 PROVIDE NEW CONTROLS FOR VAV AHU AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. REFER TO DETAIL 2/M7.5.

NOTE:
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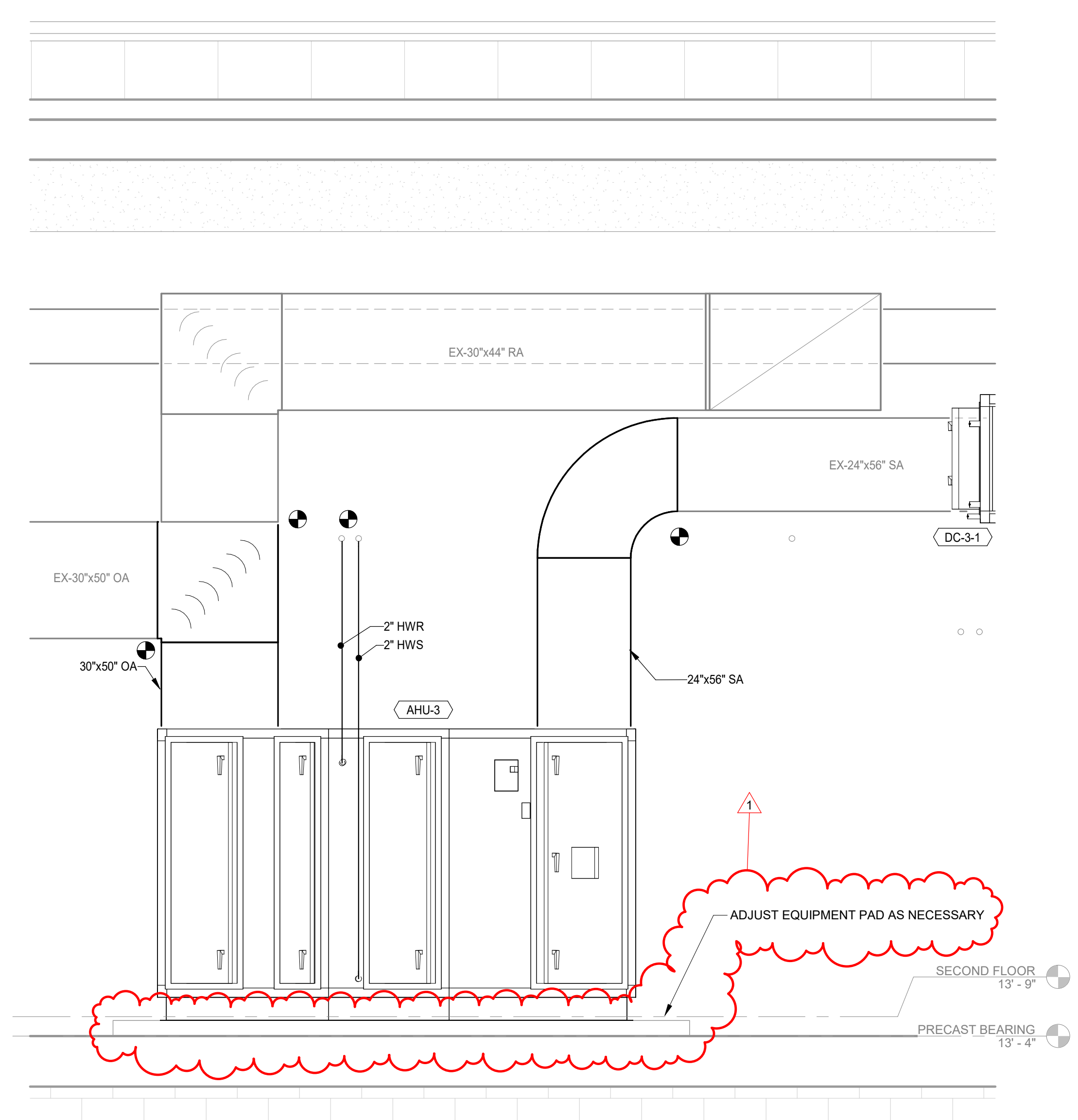
NO.	REVISION	DATE
1	ADDENDUM B01	02/05/2025

NO.	CHKD.	SJR.
1	DESIGNED: CSH	
	APPROVD: JRA	
	DATE: JANUARY 6, 2025	

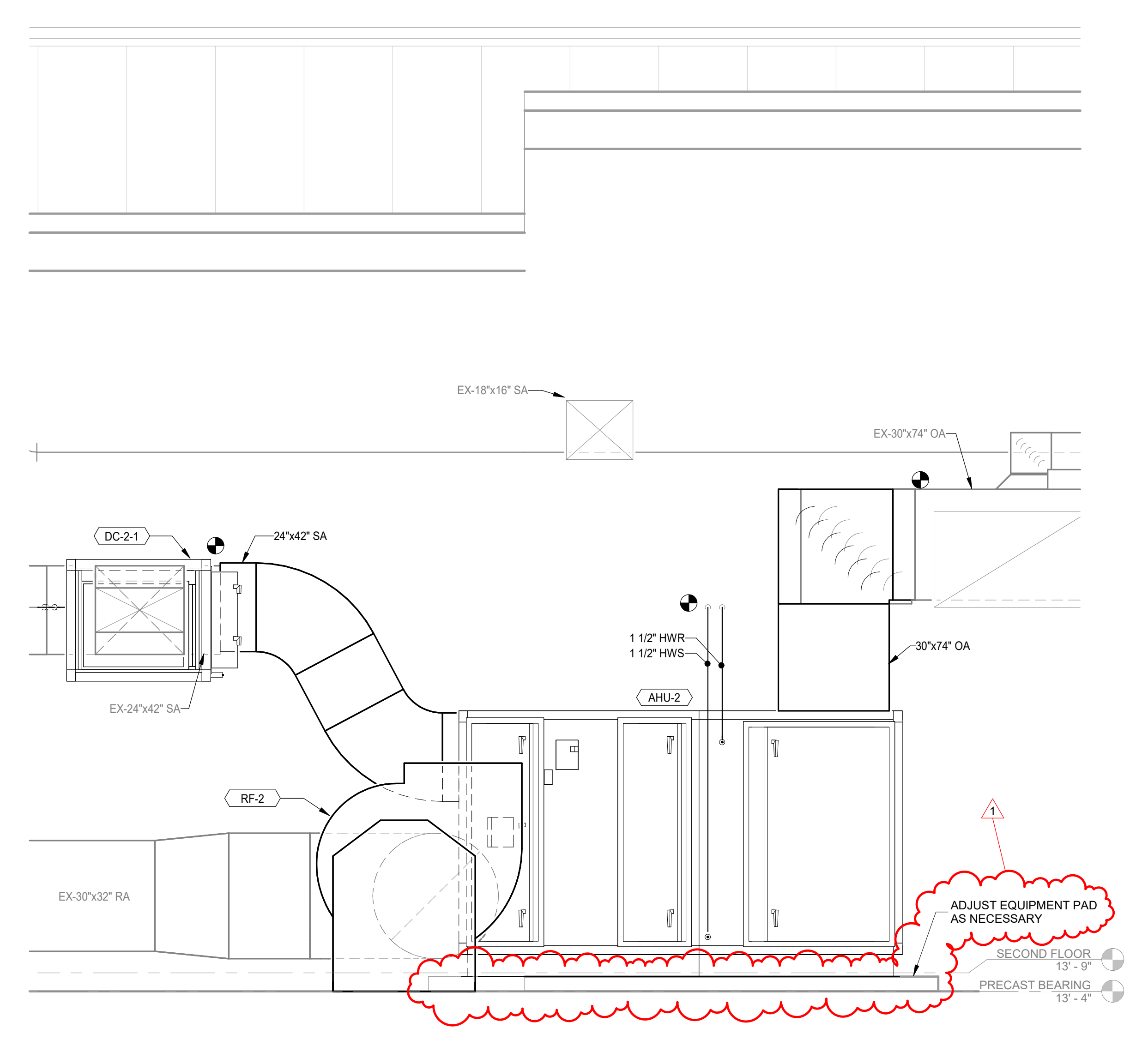
PROJECT NUMBER
2363-1104-90

PORTER COUNTY BOARD OF COMMISSIONERS
PORTER COUNTY SHERIFF'S OFFICE & JAIL
FACILITY IMPROVEMENTS
2755 STATE ROAD 49
ENLARGED PLANS II

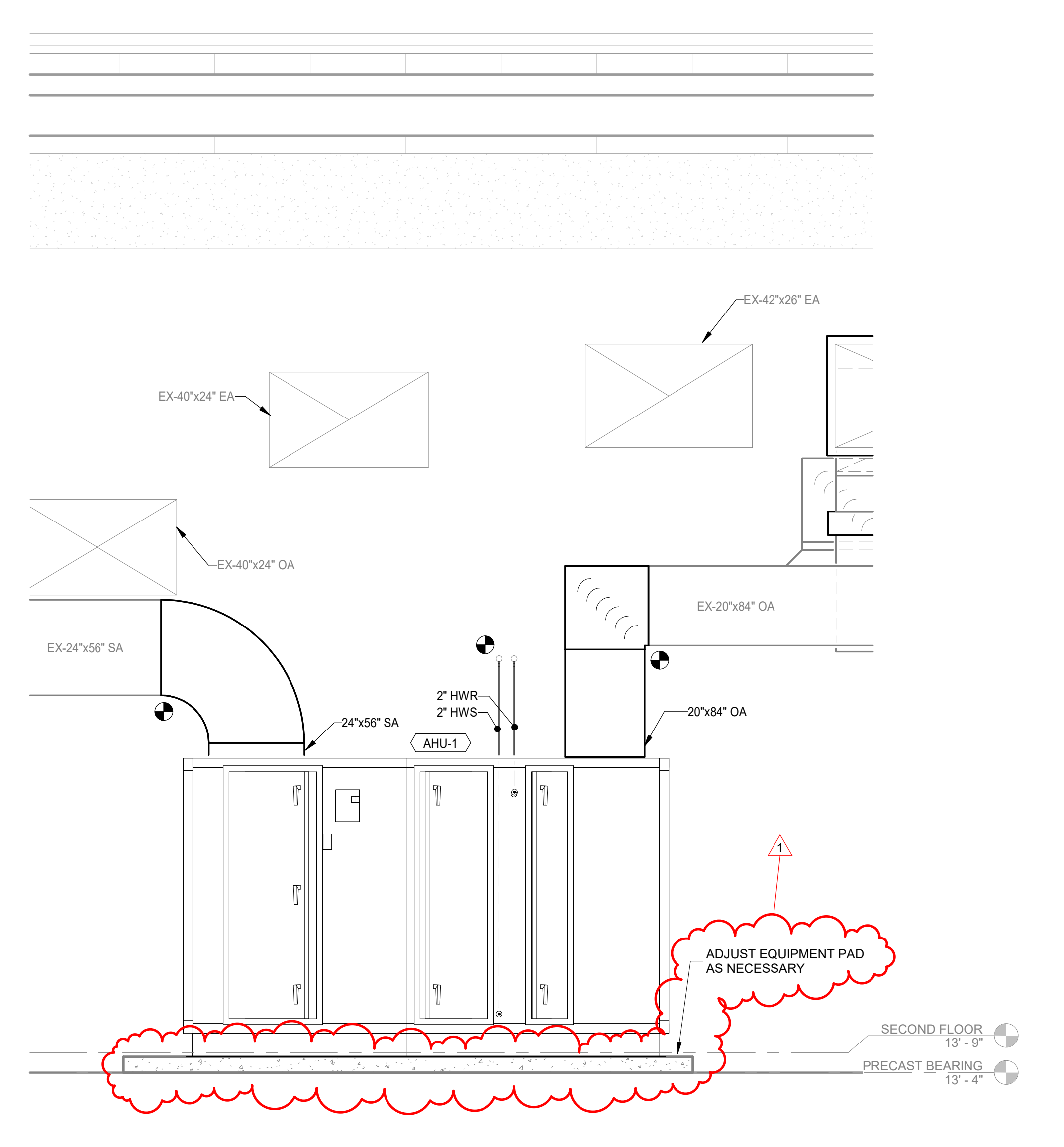
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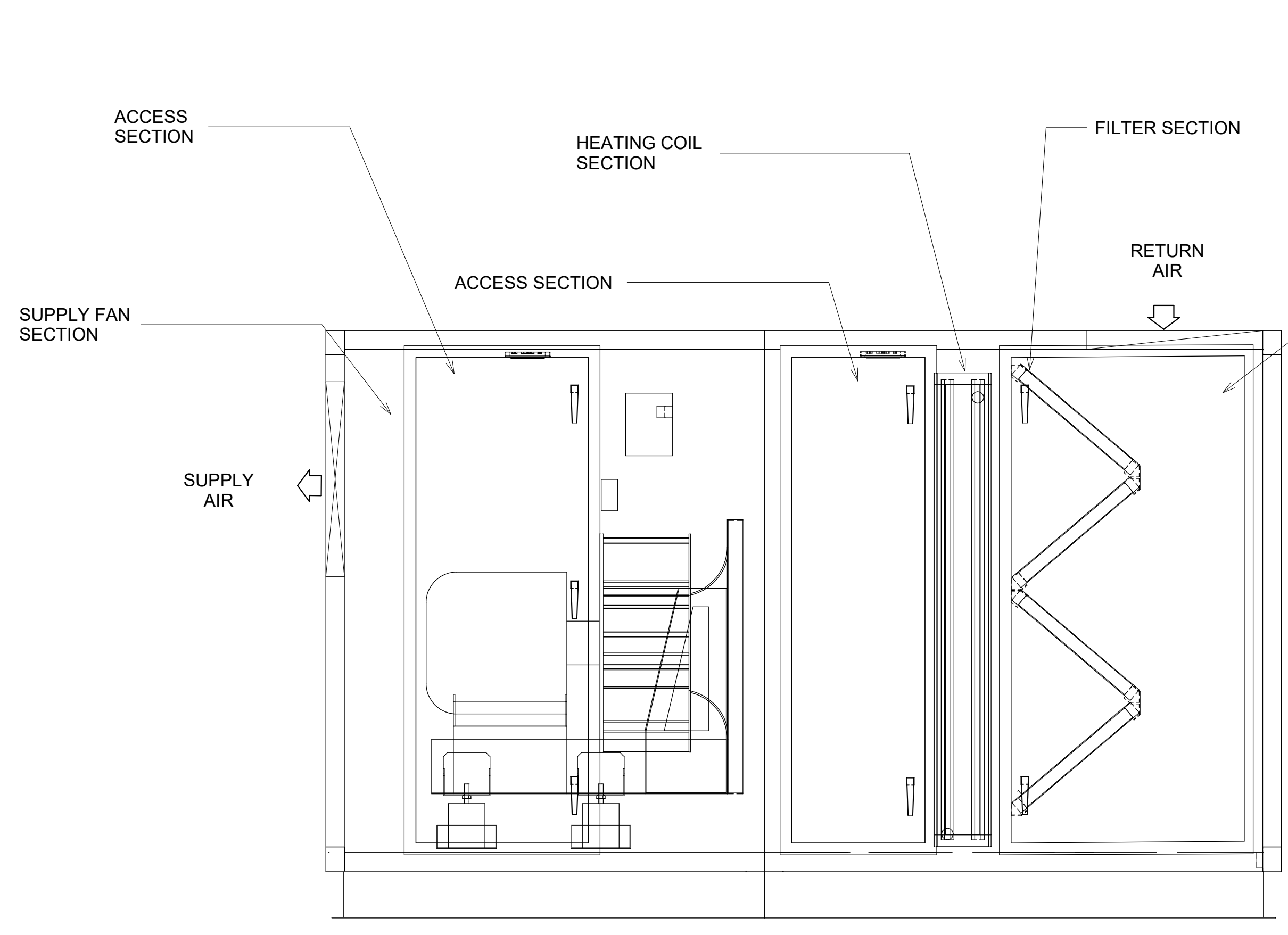
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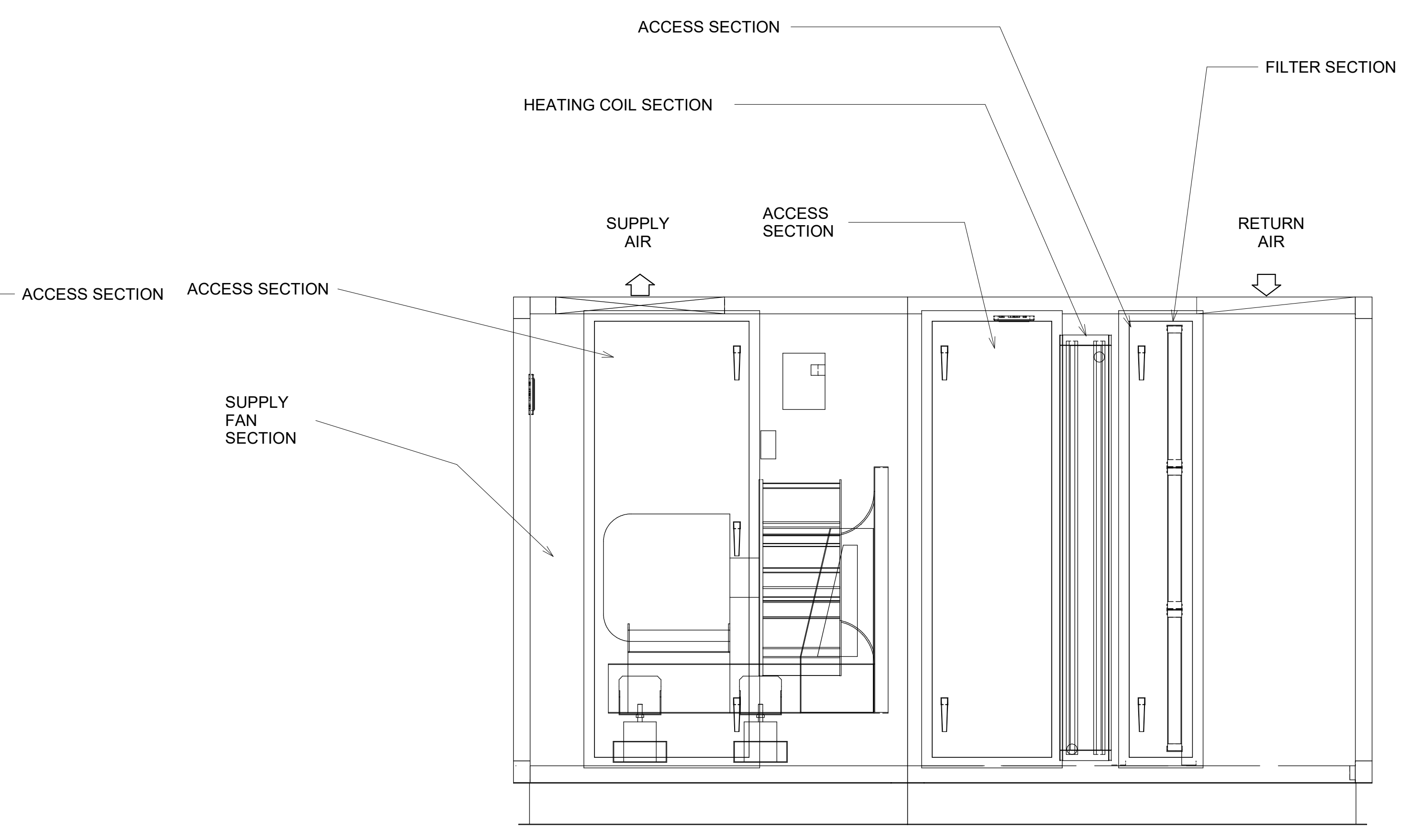
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2 AHU-1 SECTION
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4 AHU-2 SECTION
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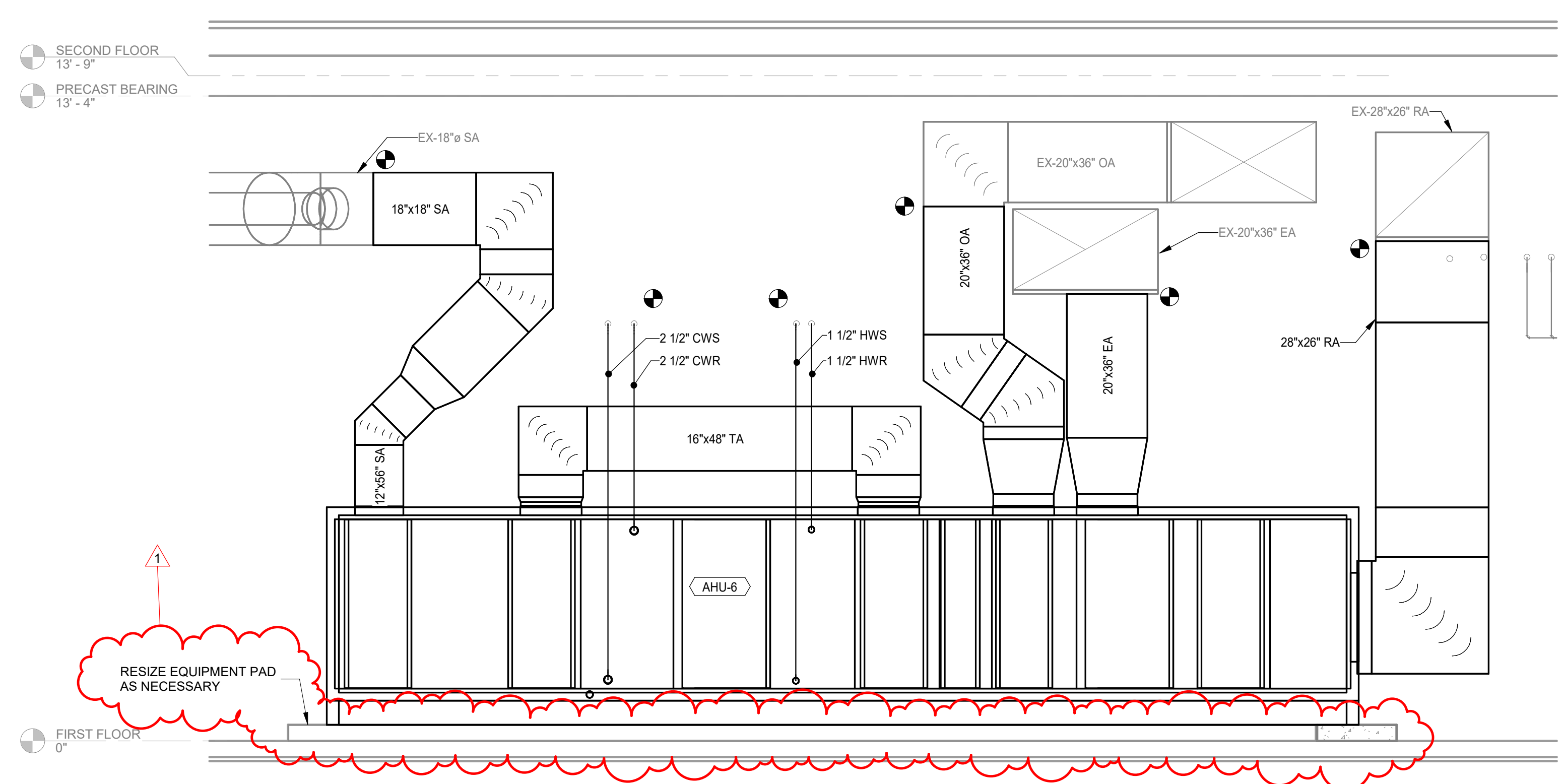
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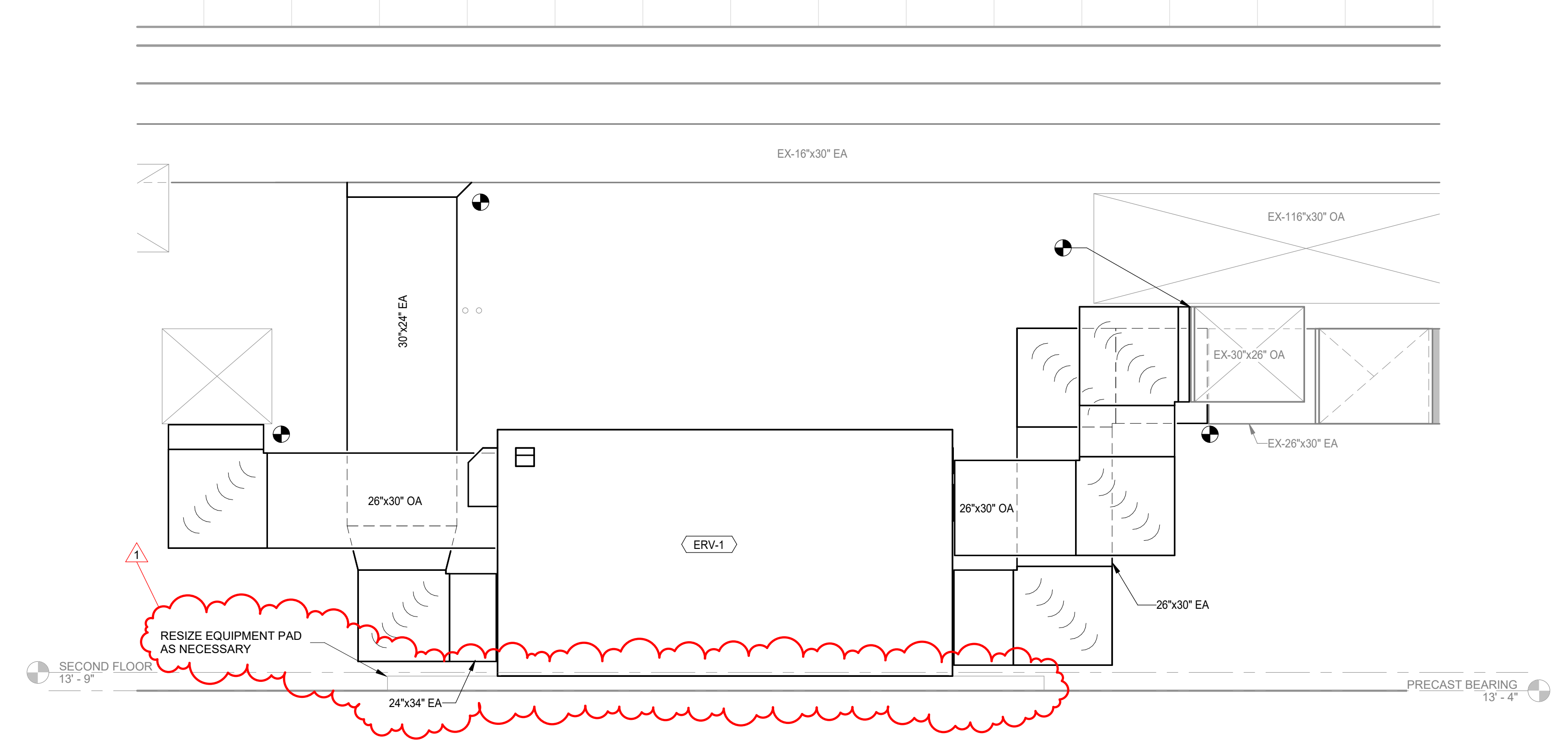
NO.	REVISION	DATE
1	ADDENDUM B01	02/05/2025

DRAWN: CSH
 DESIGNED: CSH
 APPROVED: JRA
 DATE: JANUARY 6, 2025
 PROJECT NUMBER: 2363-1104-90
 PROJECT: PORTER COUNTY BOARD OF COMMISSIONERS
 PORTER COUNTY SHERIFF'S OFFICE & JAIL
 FACILITY IMPROVEMENTS
 2755 STATE ROAD 49
 AHU SECTIONS

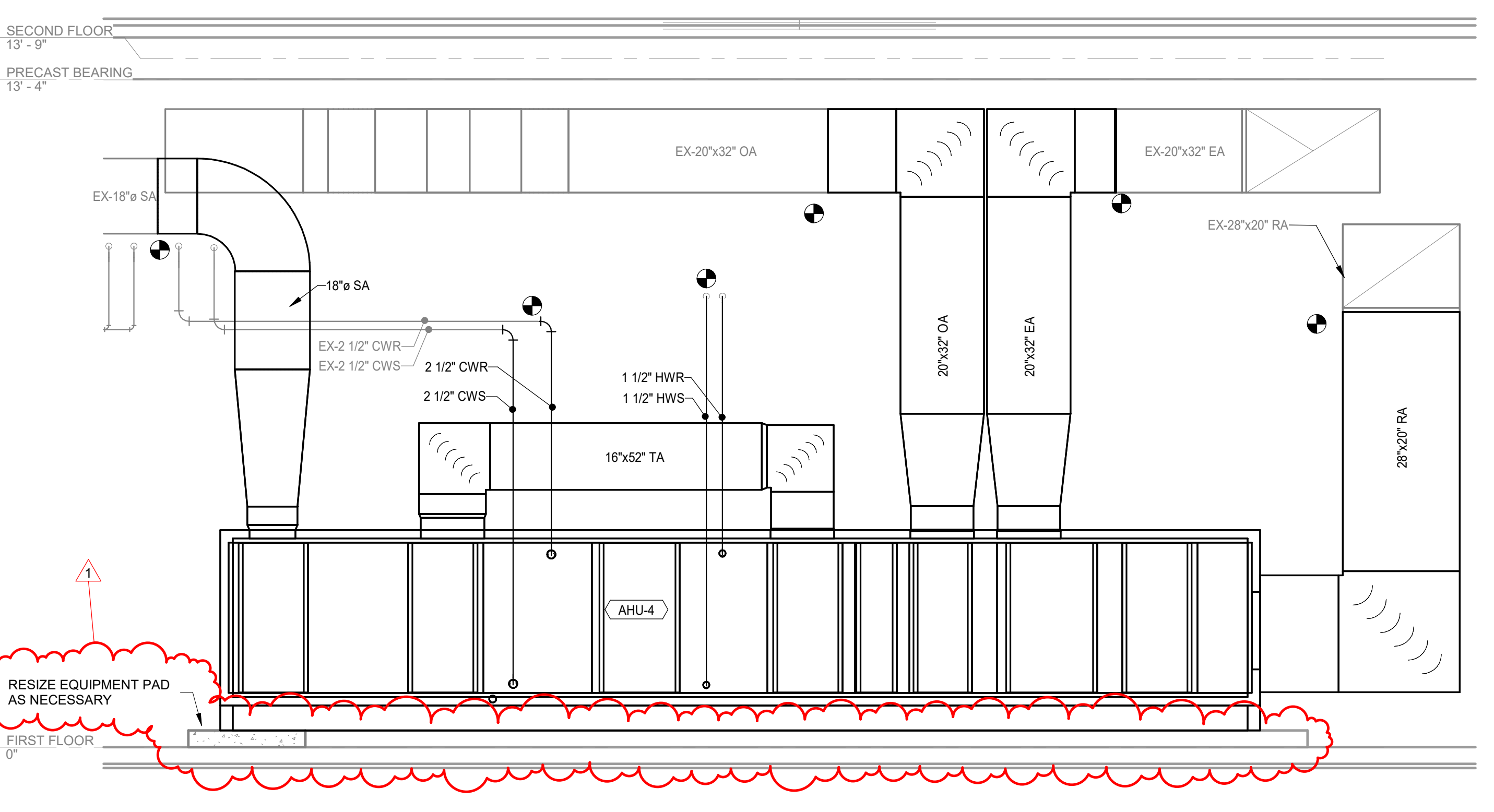
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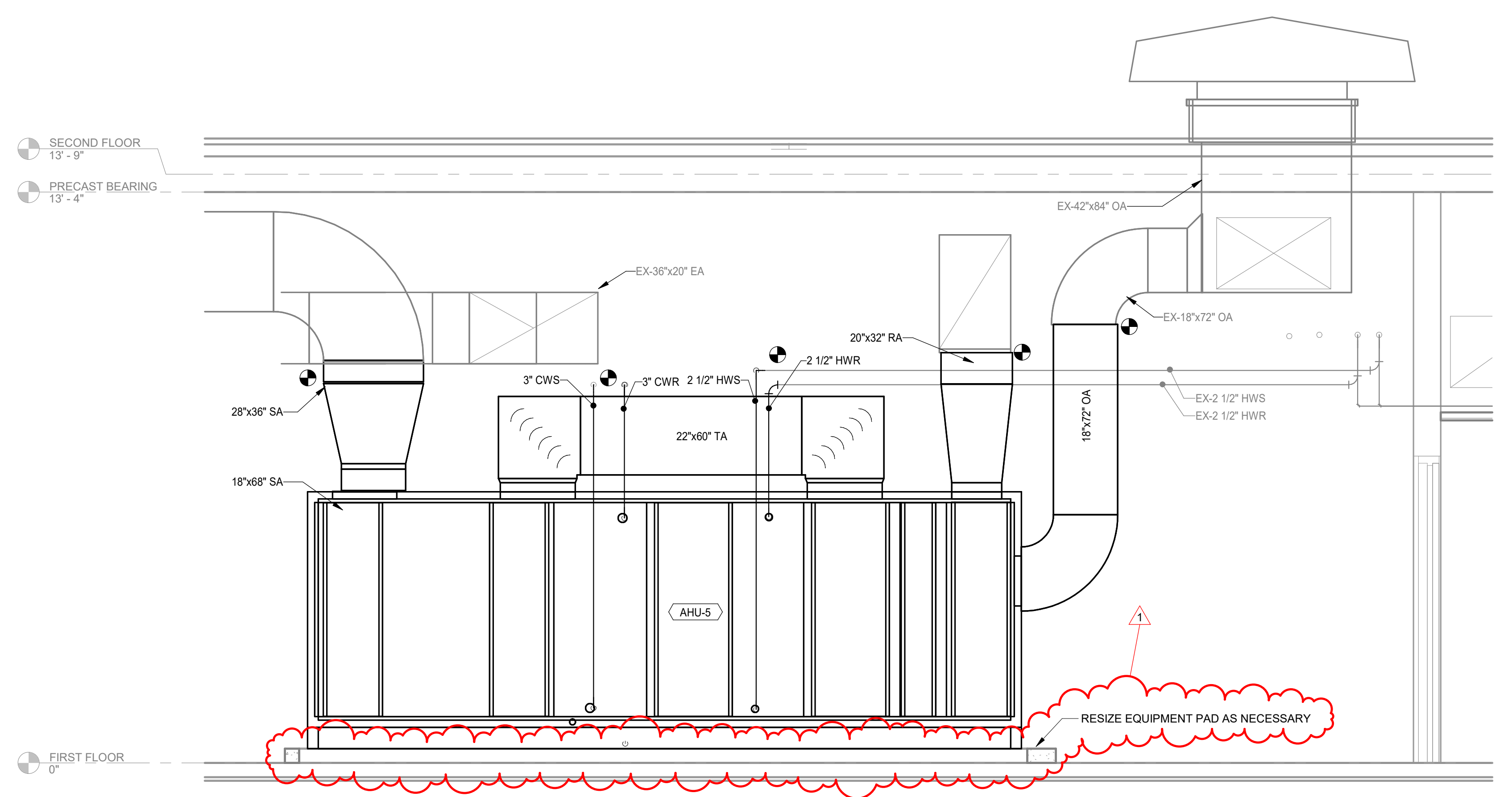
6 AHU-6 SECTION
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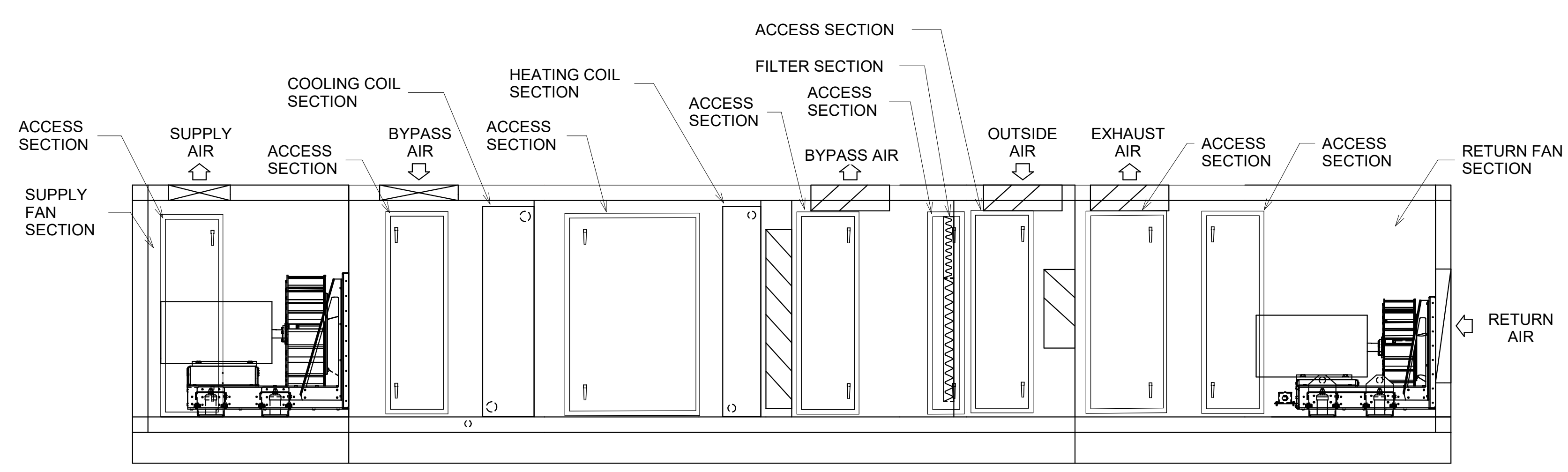
3 ERV-1 SECTION
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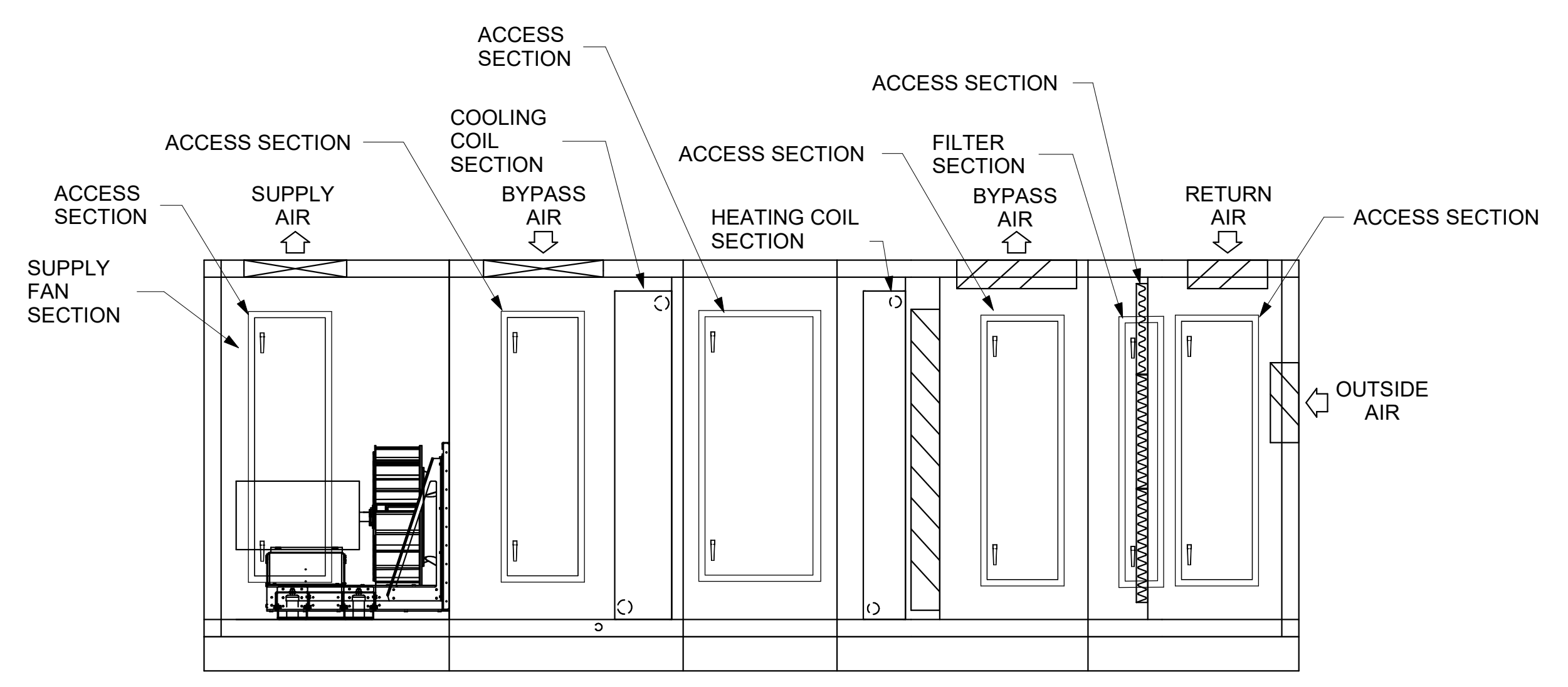
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2 AHU-5 SECTION
 SCALE: N.T.S.



4 AHU-4.6 SECTION
 SCALE: N.T.S.



1 AHU-5 SECTION
 SCALE: N.T.S.

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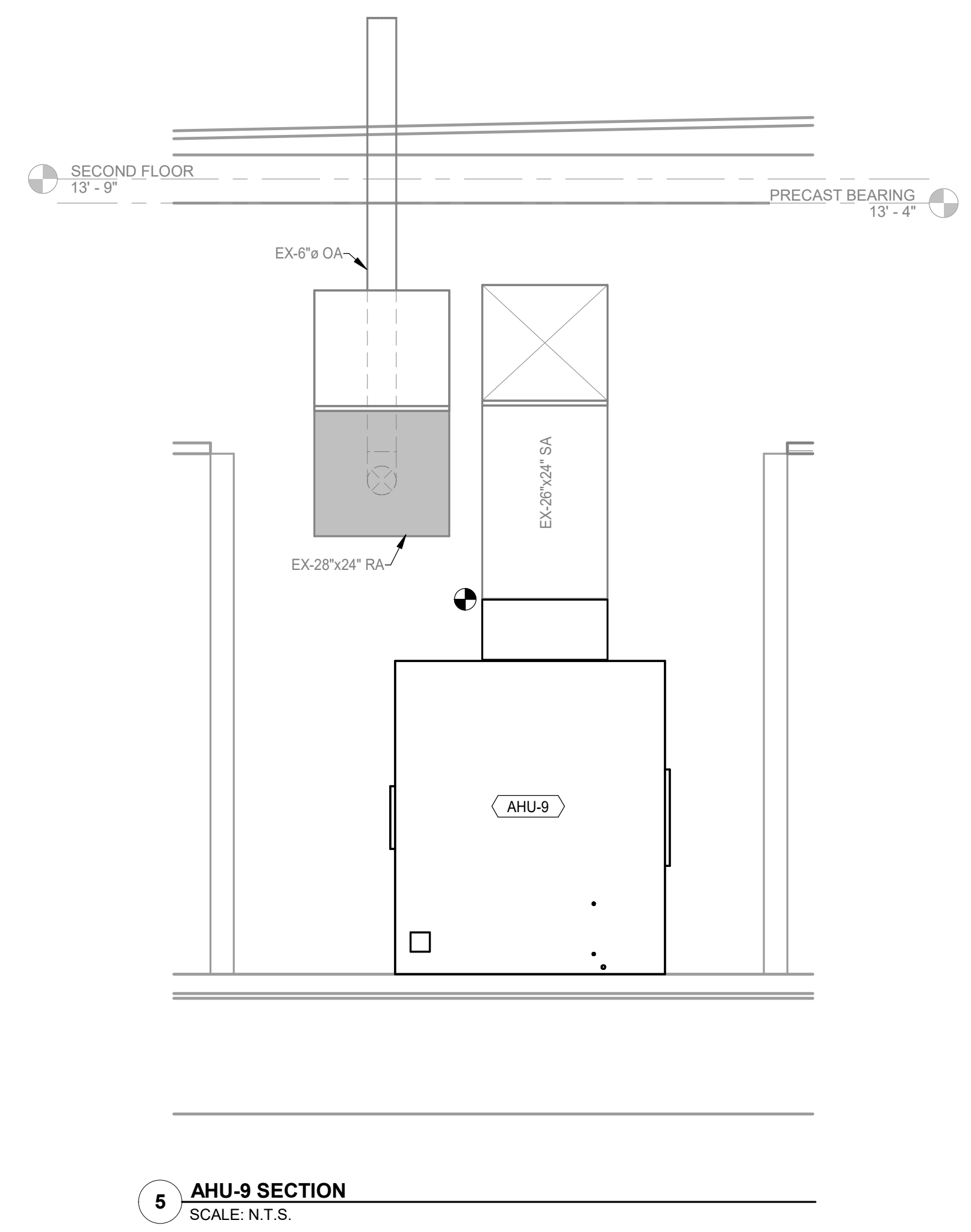
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NO.	REVISION	DATE
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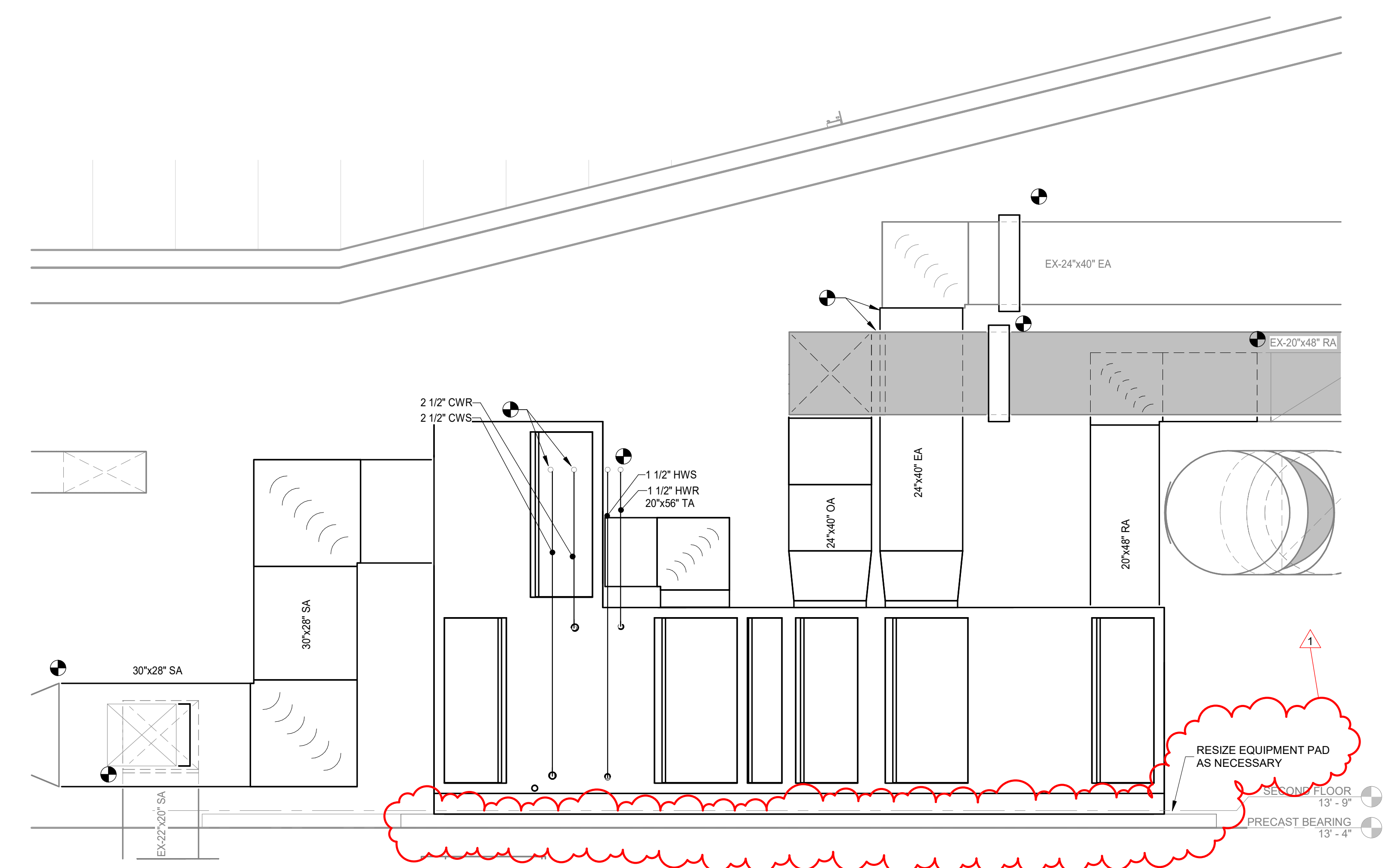
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DESIGNED: CSH	APPROVD: JRA		

PORTER COUNTY BOARD OF COMMISSIONERS PORTER COUNTY SHERIFF'S OFFICE & JAIL FACILITY IMPROVEMENTS 2755 STATE ROAD 49	MECHANICAL
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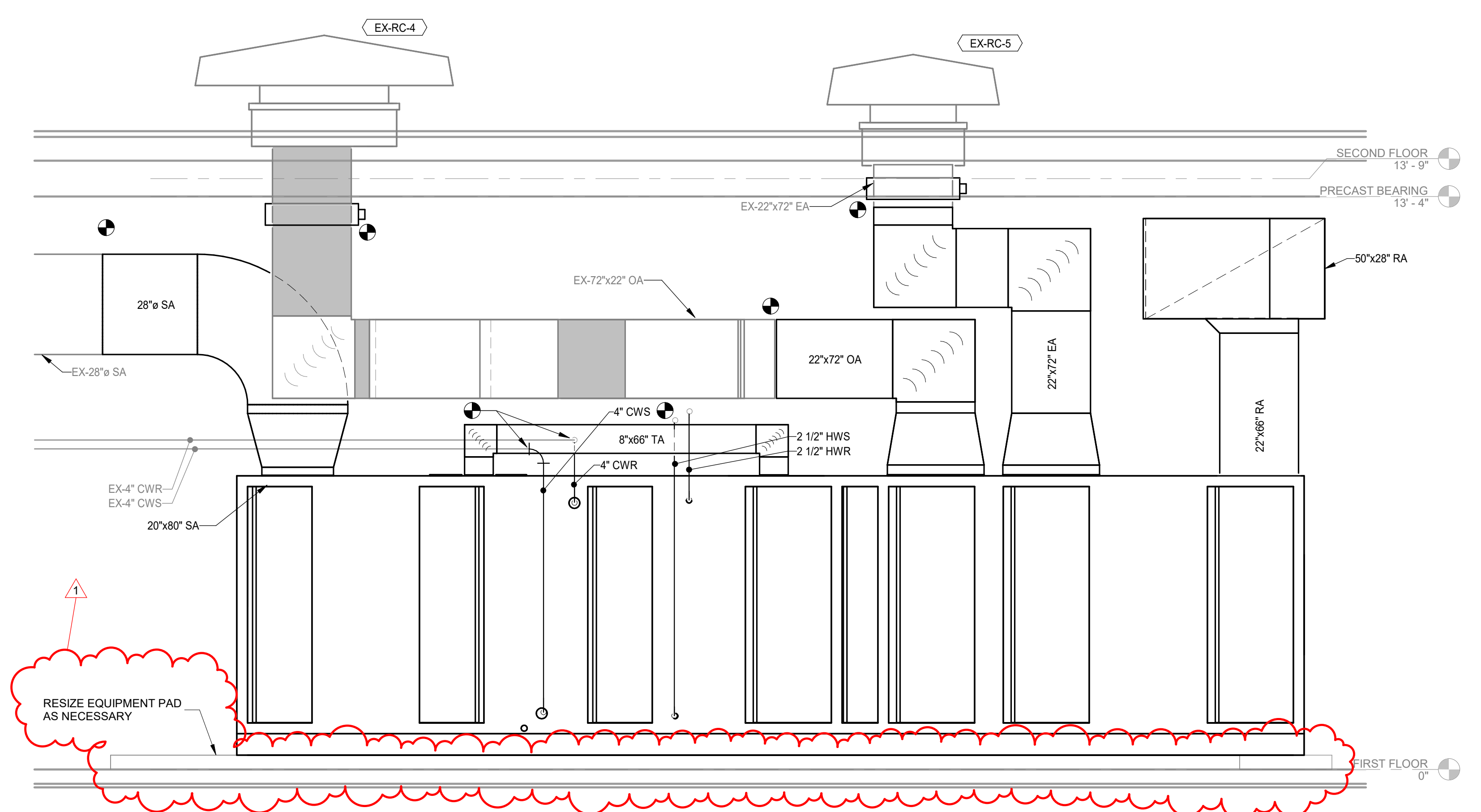
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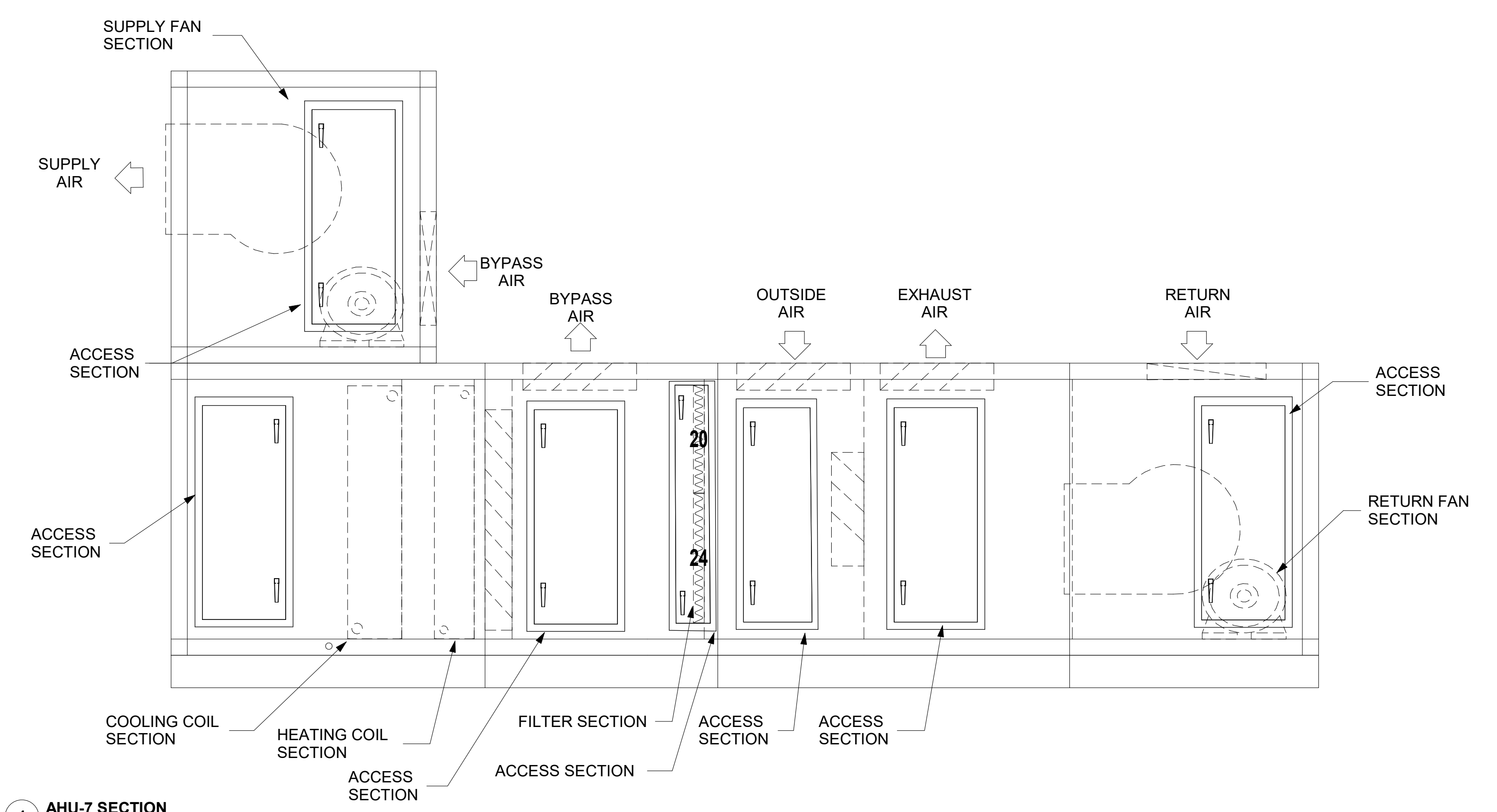
5 AHU-9 SECTION
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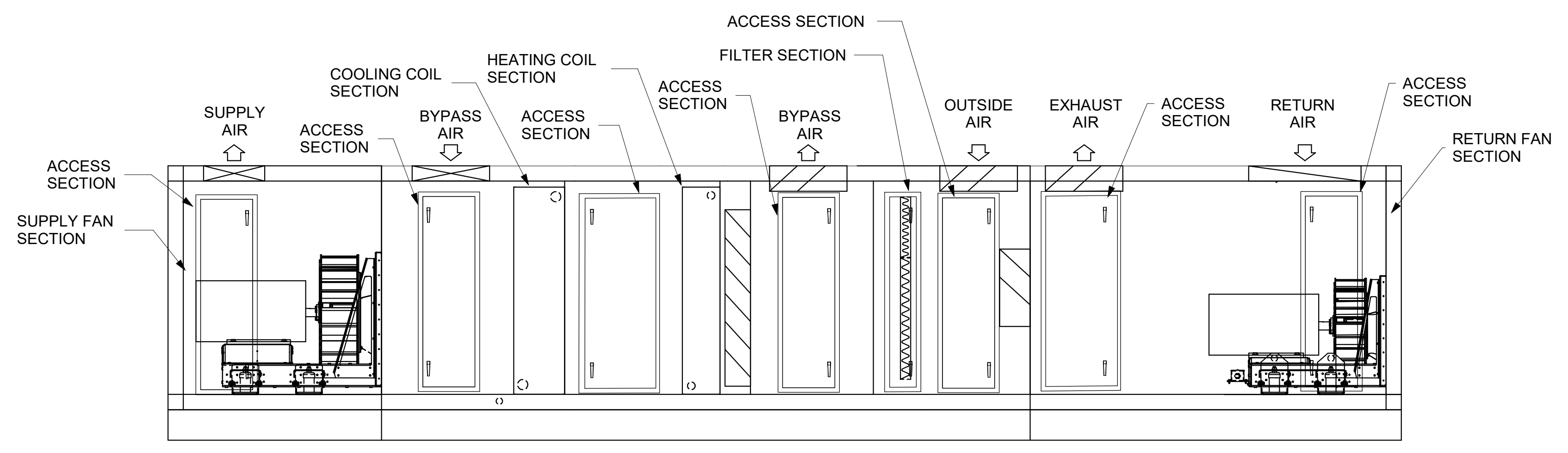
2 AHU-7 SECTION
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4 AHU-8 SECTION
 SCALE: N.T.S.



1 AHU-7 SECTION
 SCALE: N.T.S.



3 AHU-8 SECTION
 SCALE: N.T.S.

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NO.	REVISION	DATE
1	ADDENDUM B01	02/05/2025

DRAWN: CSH	CHKD: SJS	DATE: JANUARY 6, 2025	PROJECT NUMBER: 2363-1104-90
DESIGNED: CSH	APPRVD: JRA		

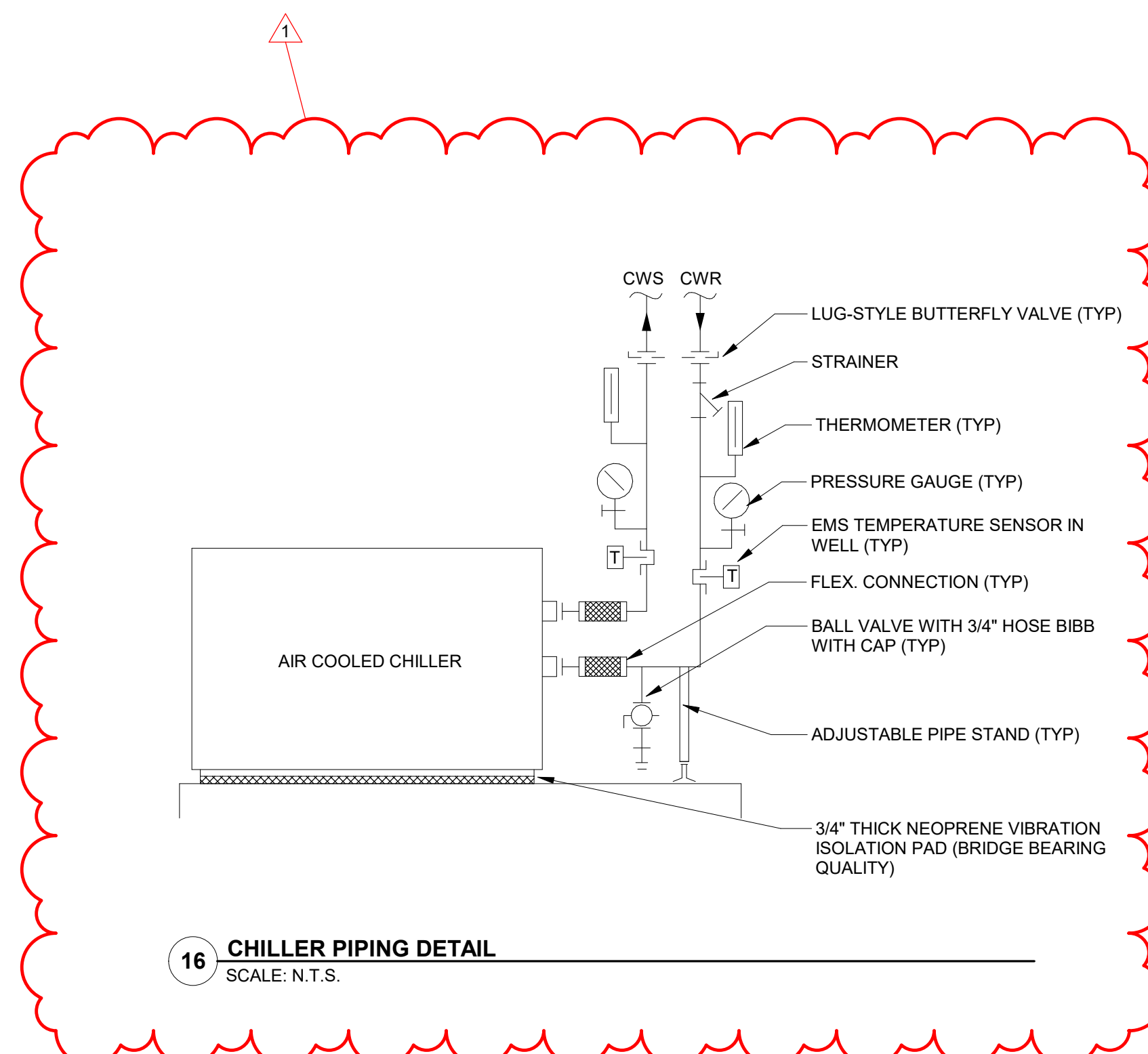
PORTER COUNTY BOARD OF COMMISSIONERS PORTER COUNTY SHERIFF'S OFFICE & JAIL FACILITY IMPROVEMENTS 2755 STATE ROAD 49	MECHANICAL
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DATE	REVISION	NO.	CHKD.	SJR
02/05/2025 <td>1 <td>ADDENDUM A01 <td></td> <td></td> </td></td>	1 <td>ADDENDUM A01 <td></td> <td></td> </td>	ADDENDUM A01 <td></td> <td></td>		

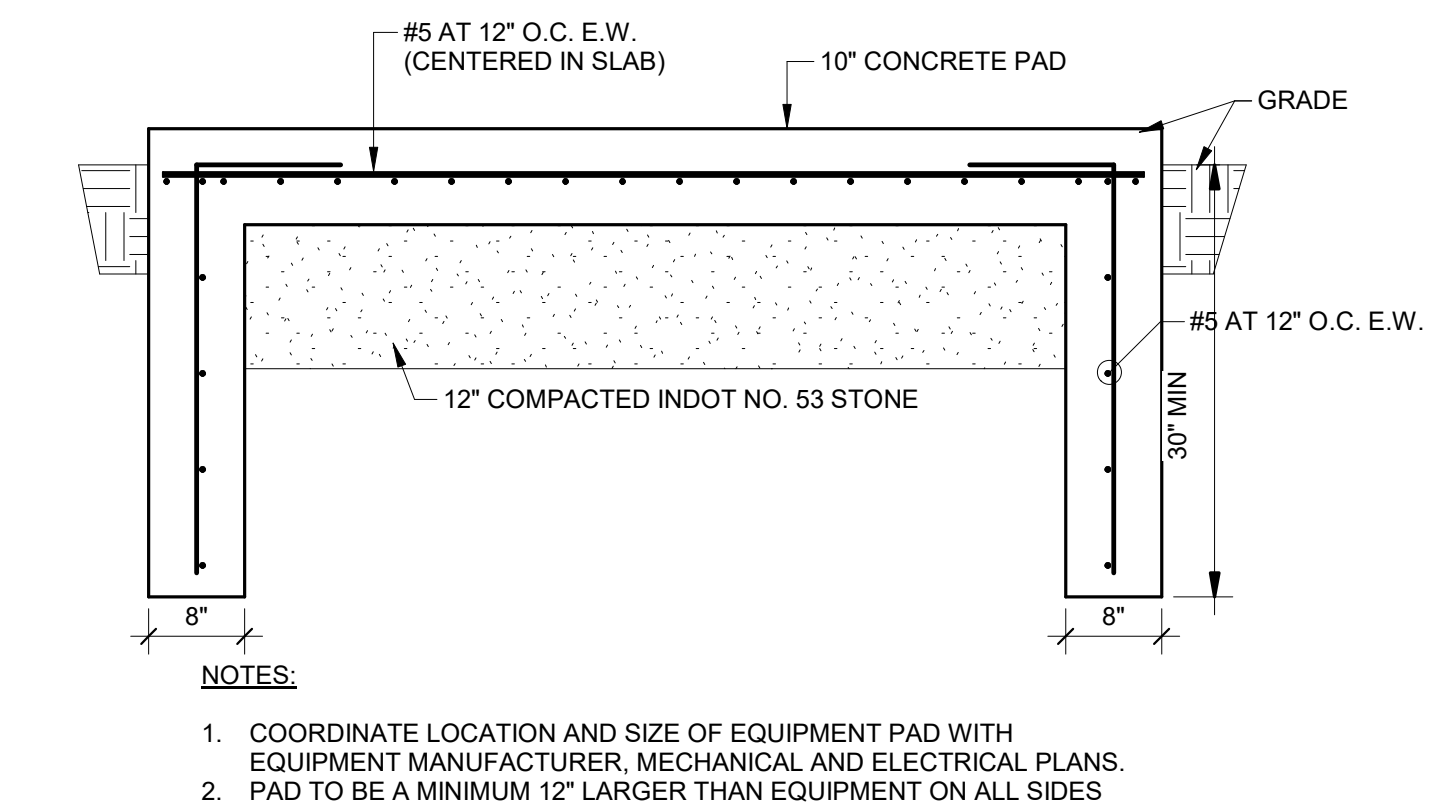
DESIGNED: CSH	DATE: JANUARY 6, 2025	PROJECT NUMBER: 2363-1104-90
APPROVED: JRA		

PORTER COUNTY BOARD OF COMMISSIONERS
 PORTER COUNTY SHERIFF'S OFFICE & JAIL
 FACILITY IMPROVEMENTS
 2755 STATE ROAD 49
 MECHANICAL DETAILS - 1

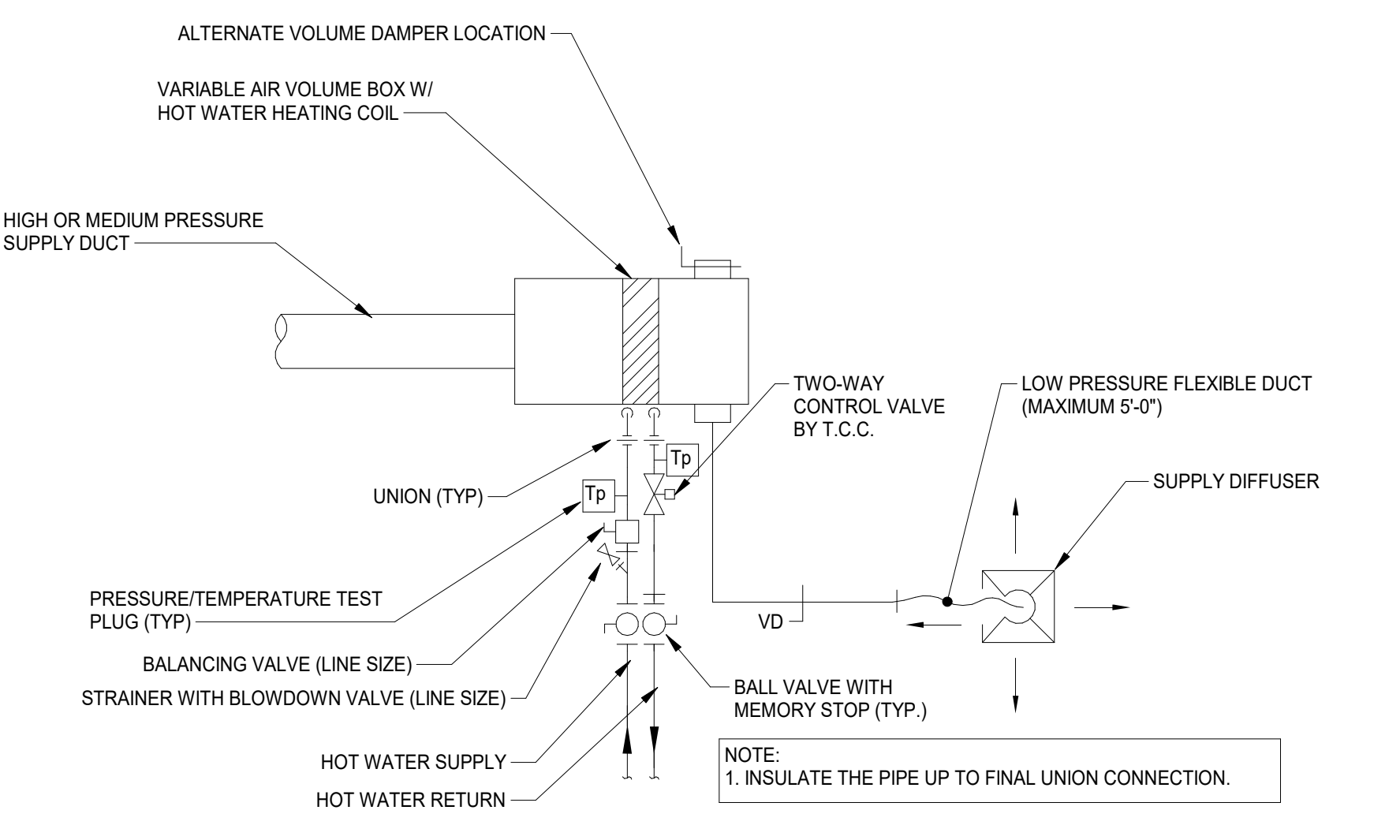
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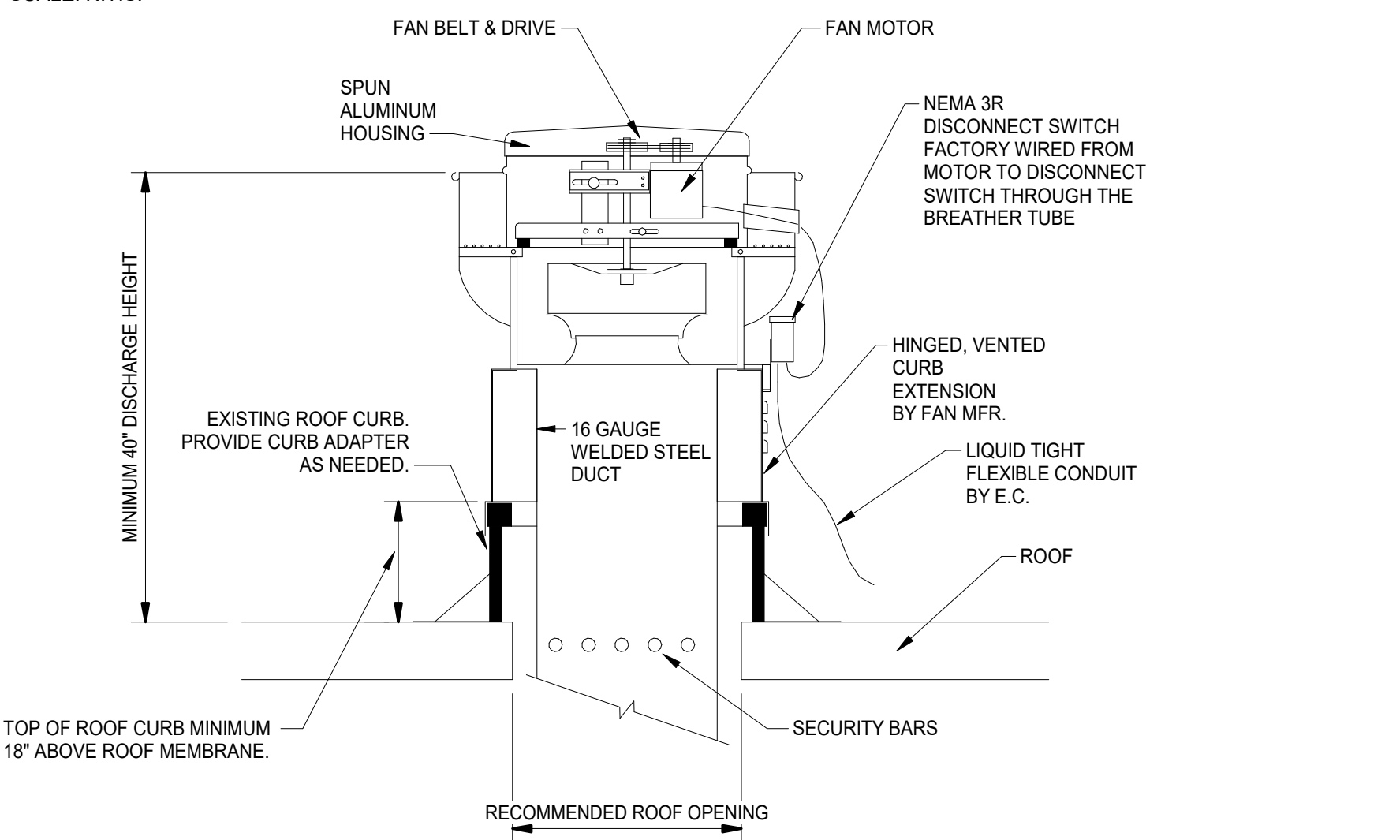
16 CHILLER PIPING DETAIL
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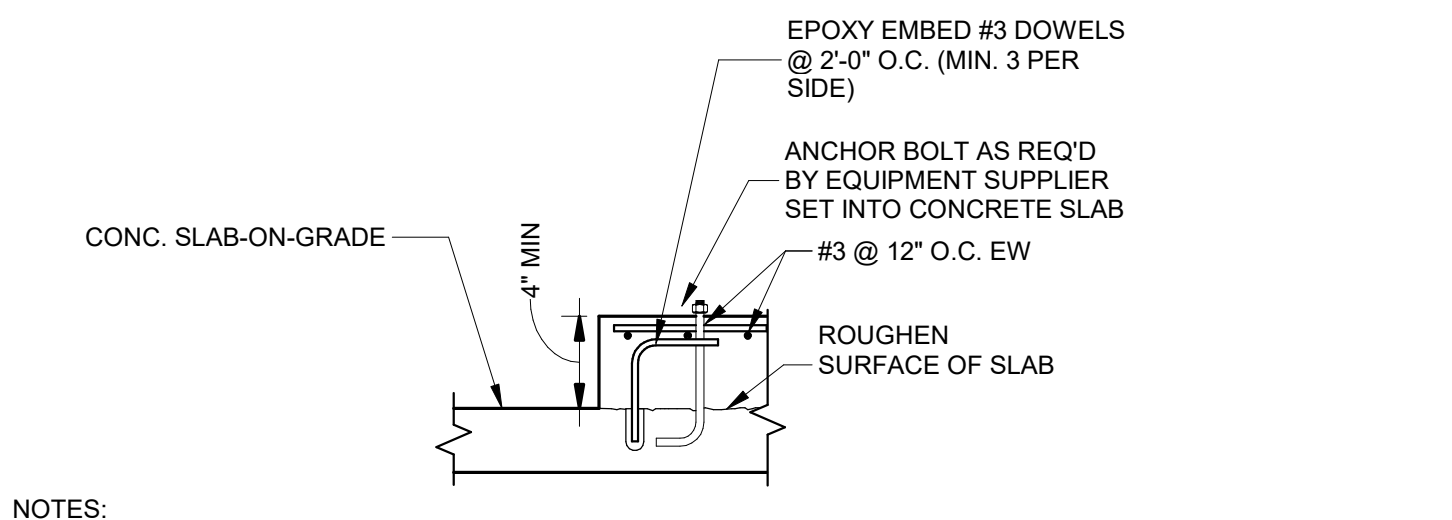
14 TYPICAL EXTERIOR EQUIPMENT PAD DETAIL
SCALE: N.T.S.



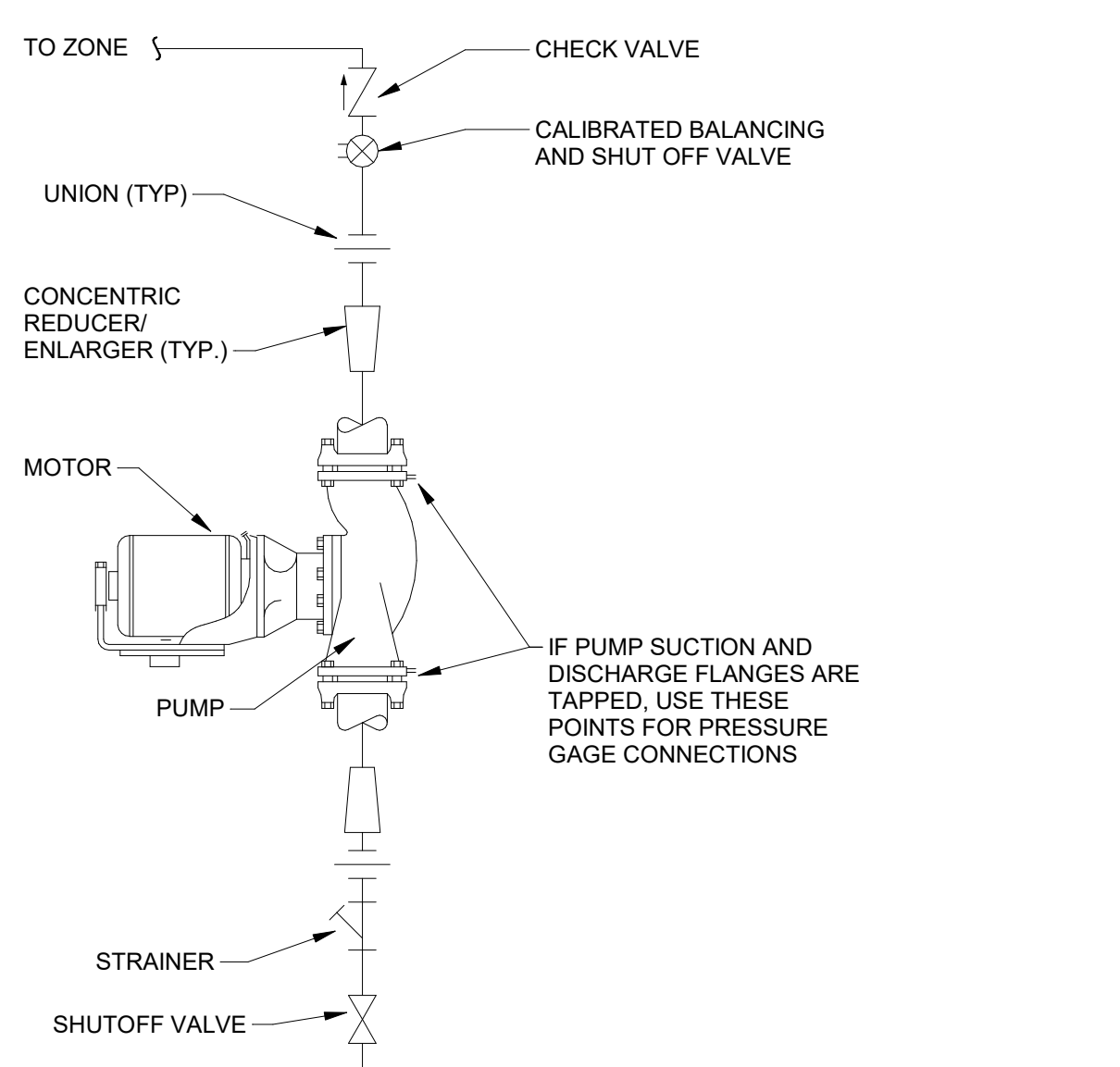
11 VAV BOX DETAIL
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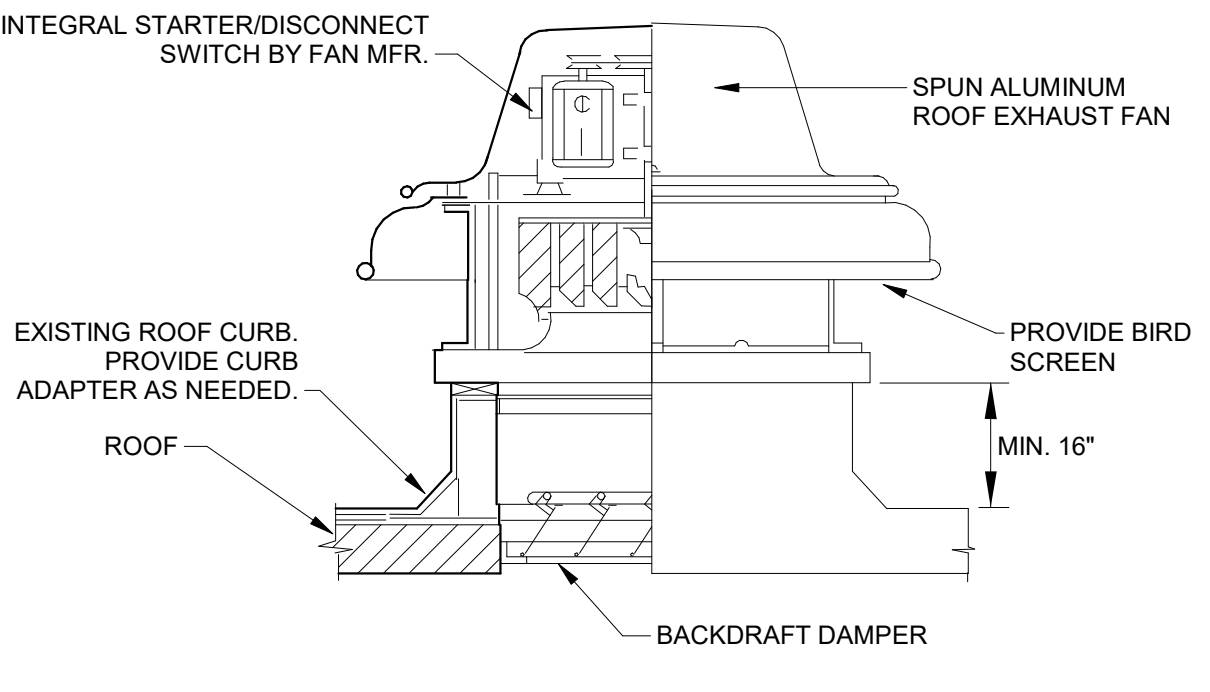
10 SMOKE EXHAUST FAN DETAIL - FLAT ROOF
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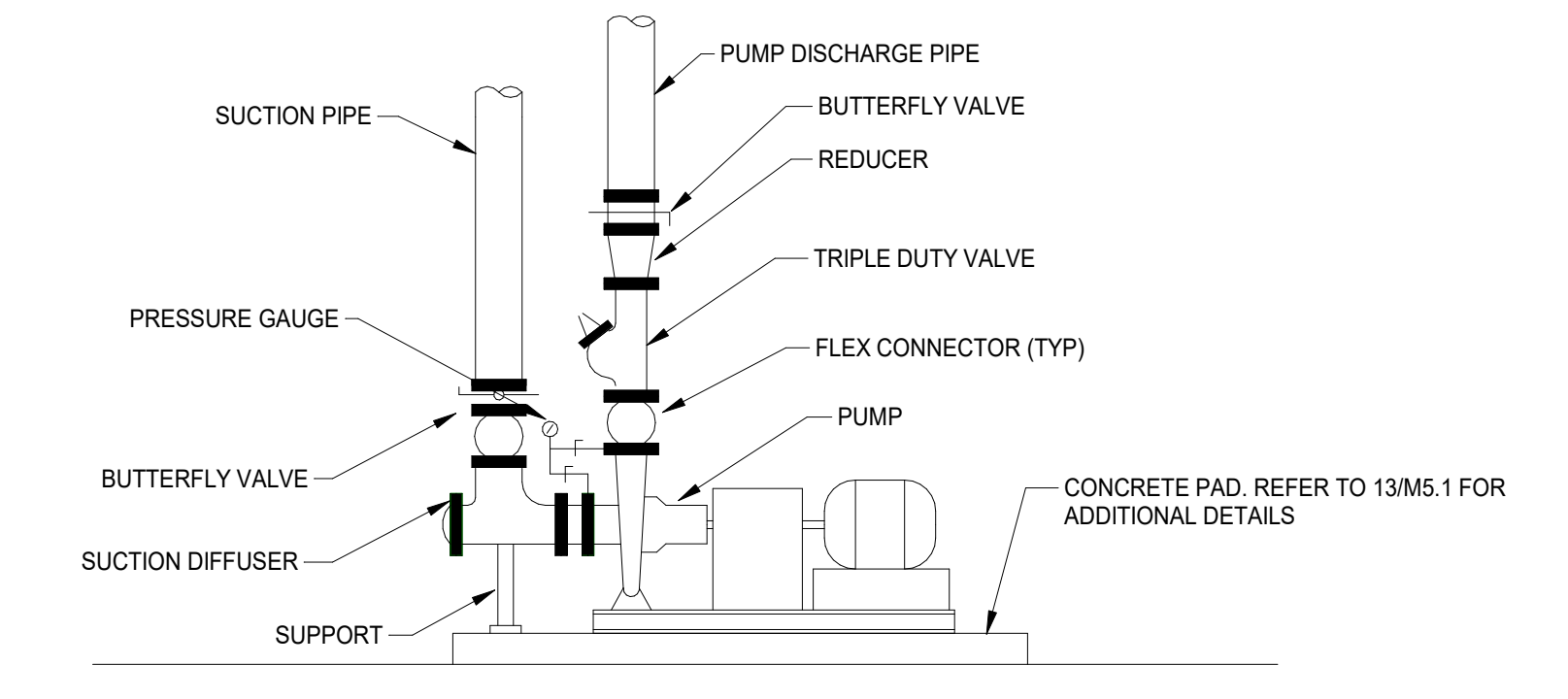
15 TYPICAL INTERIOR CONCRETE HOUSEKEEPING PAD REINFORCING DETAIL
SCALE: N.T.S.



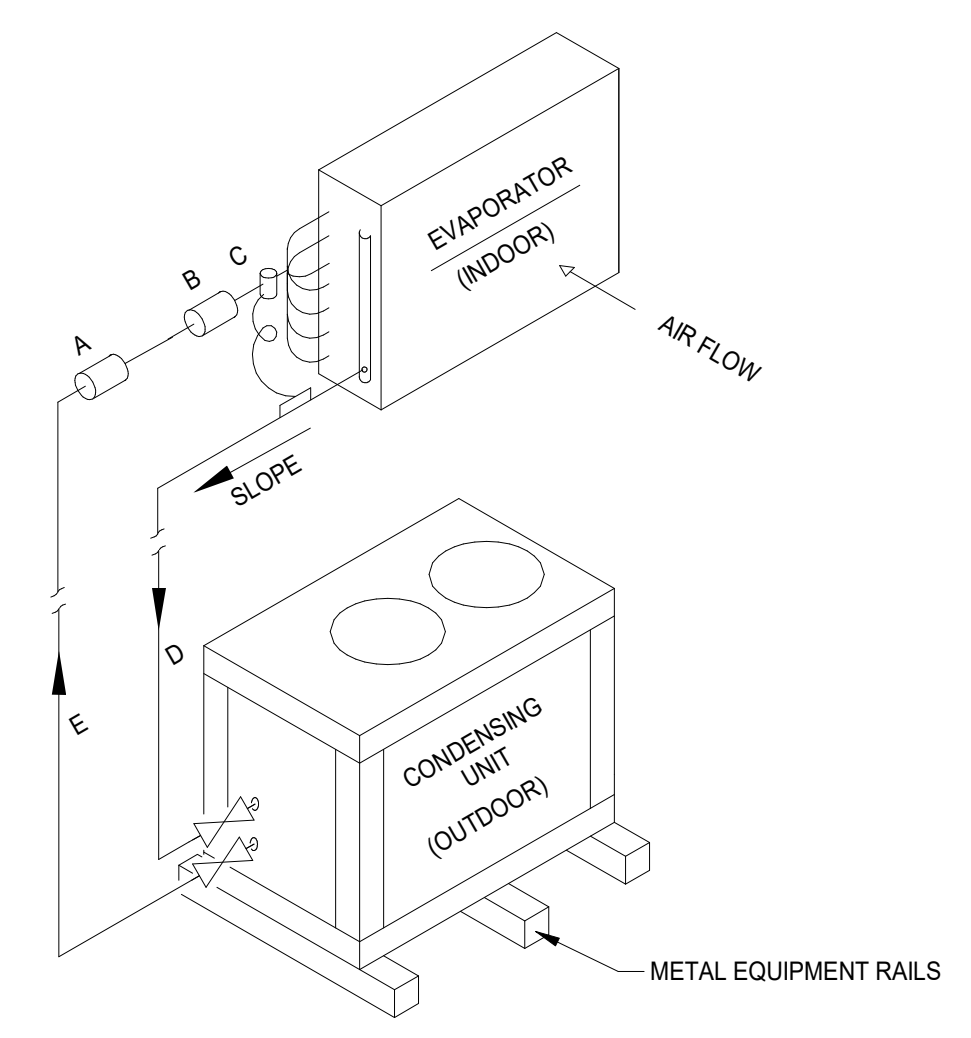
9 EXHAUST FAN DETAIL
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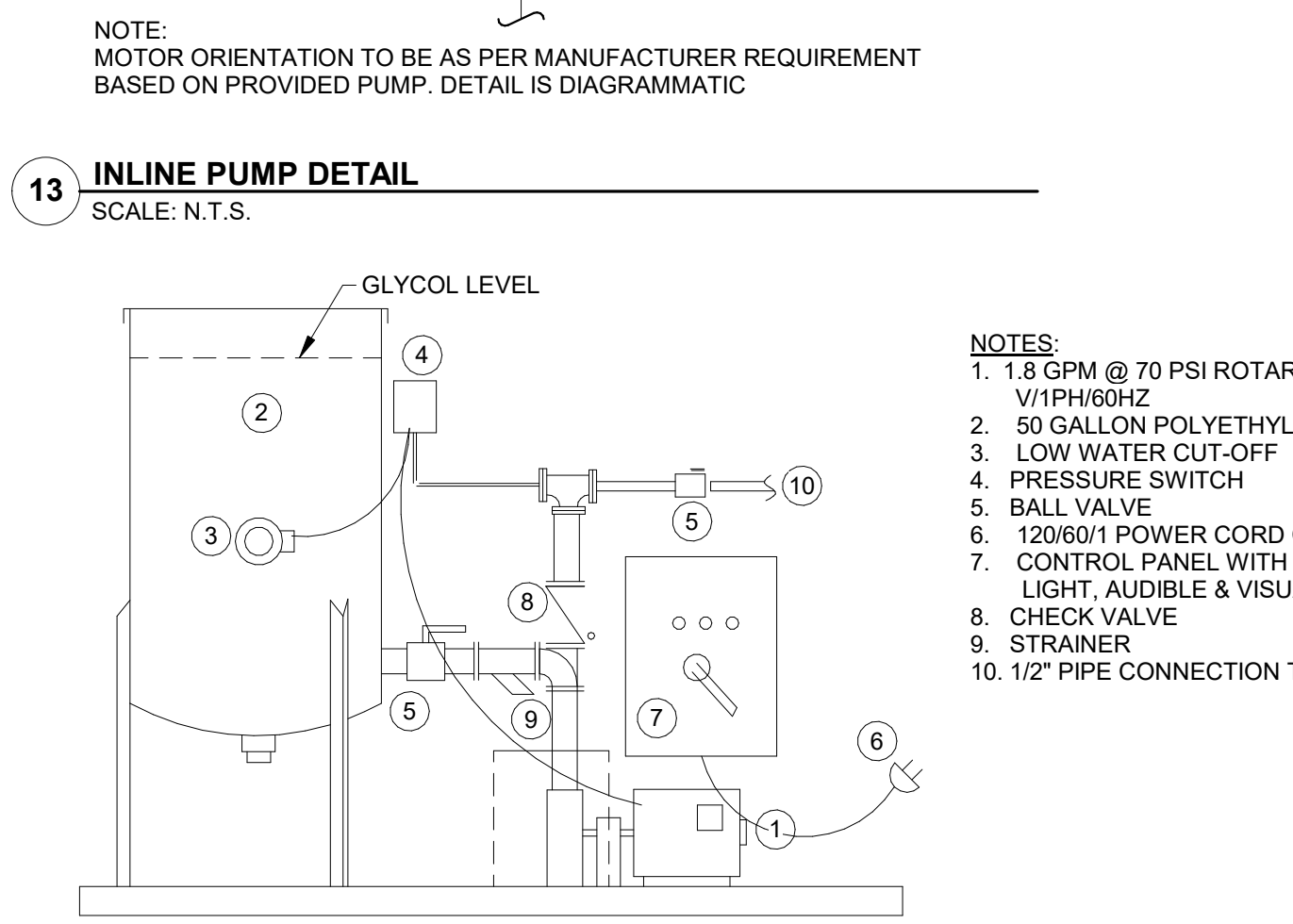
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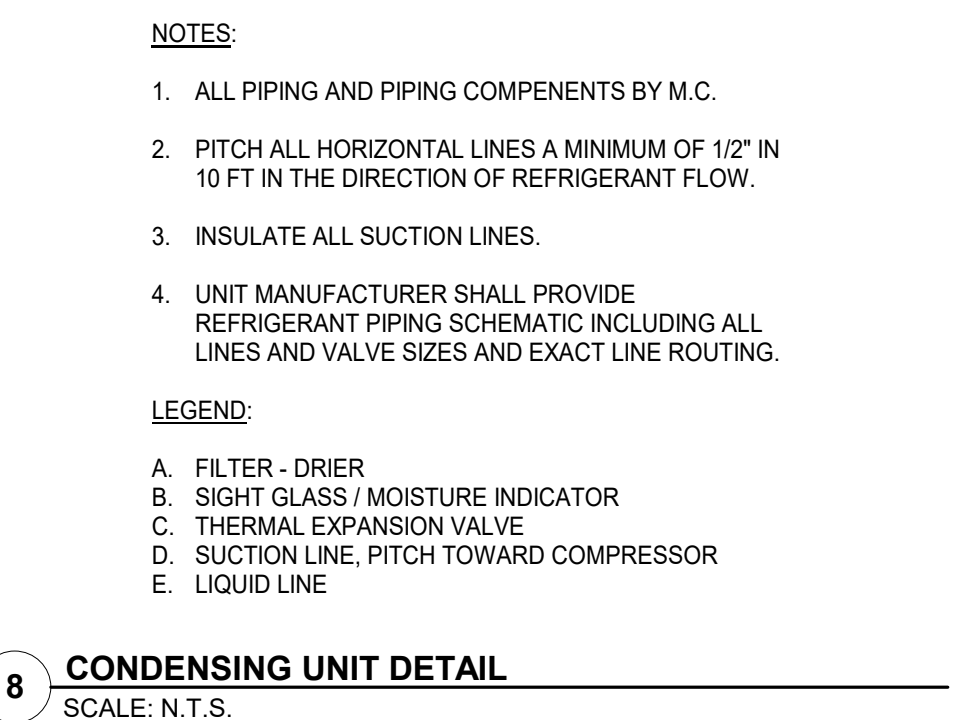
5 BASEMOUNTED PUMP DETAIL
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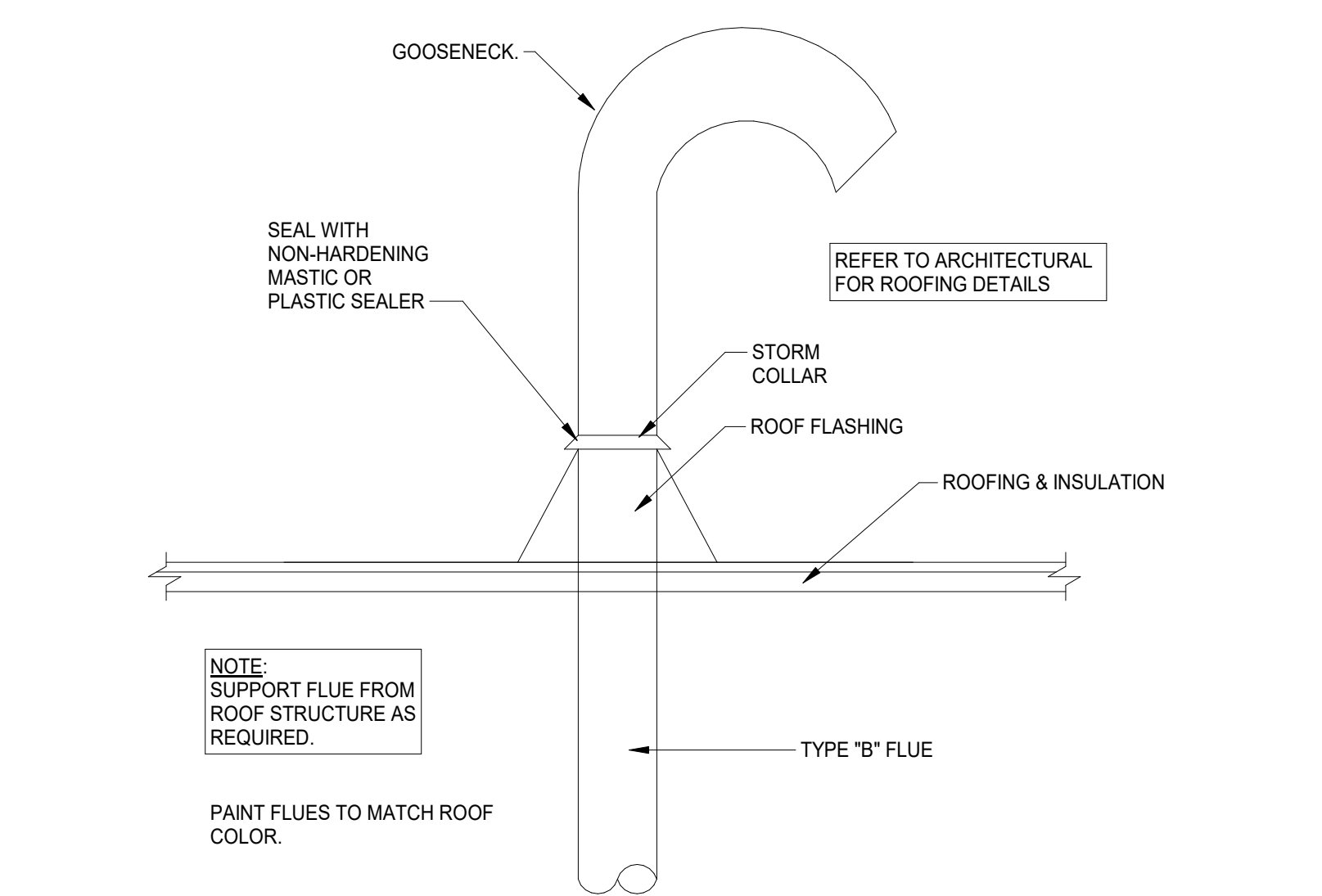
4 COOLING COIL DRAIN TRAP DETAIL
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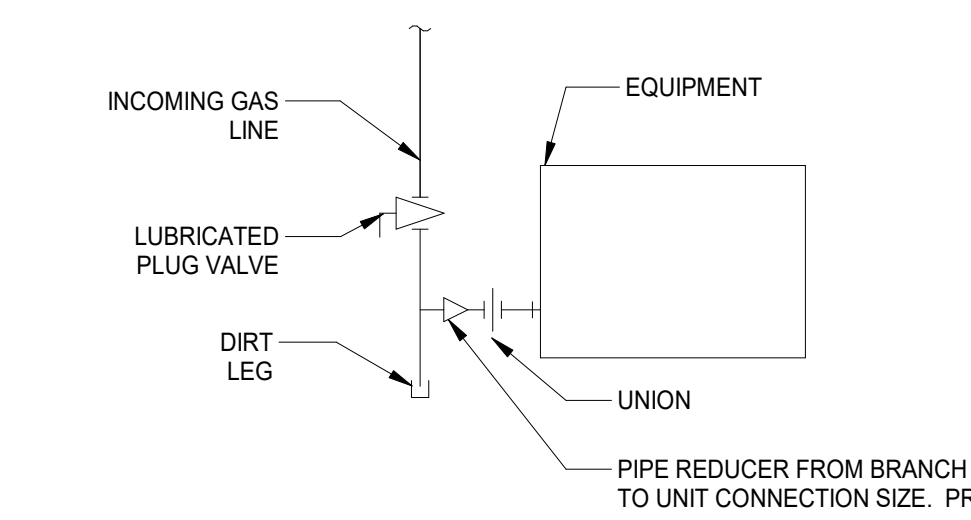
13 INLINE PUMP DETAIL
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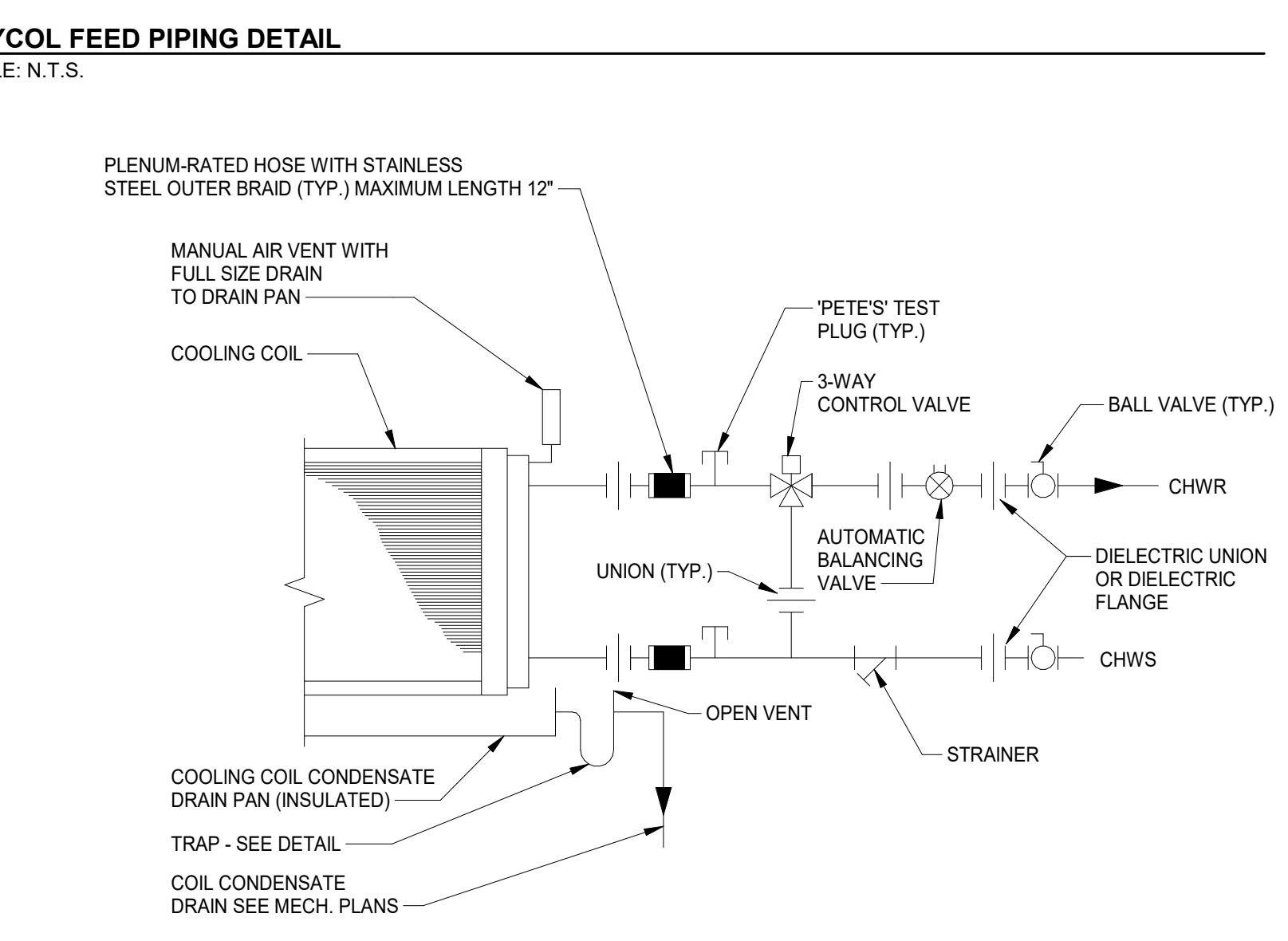
8 CONDENSING UNIT DETAIL
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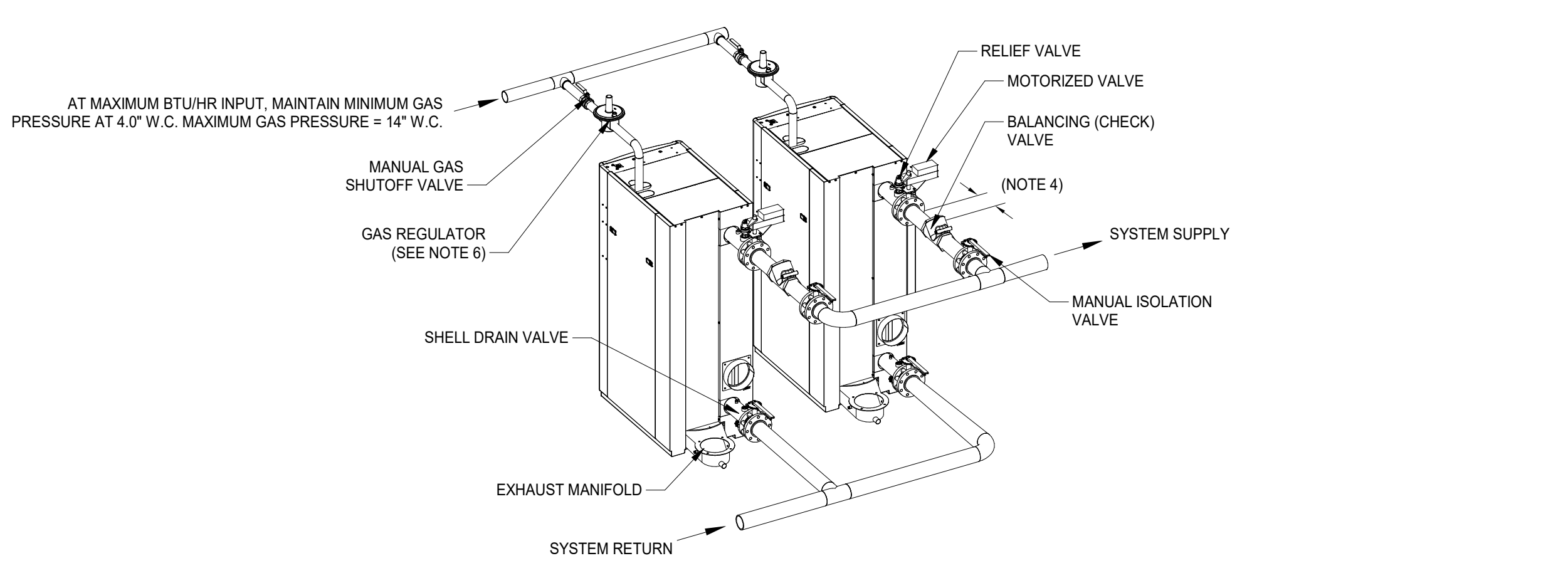
3 FLUE THRU ROOF
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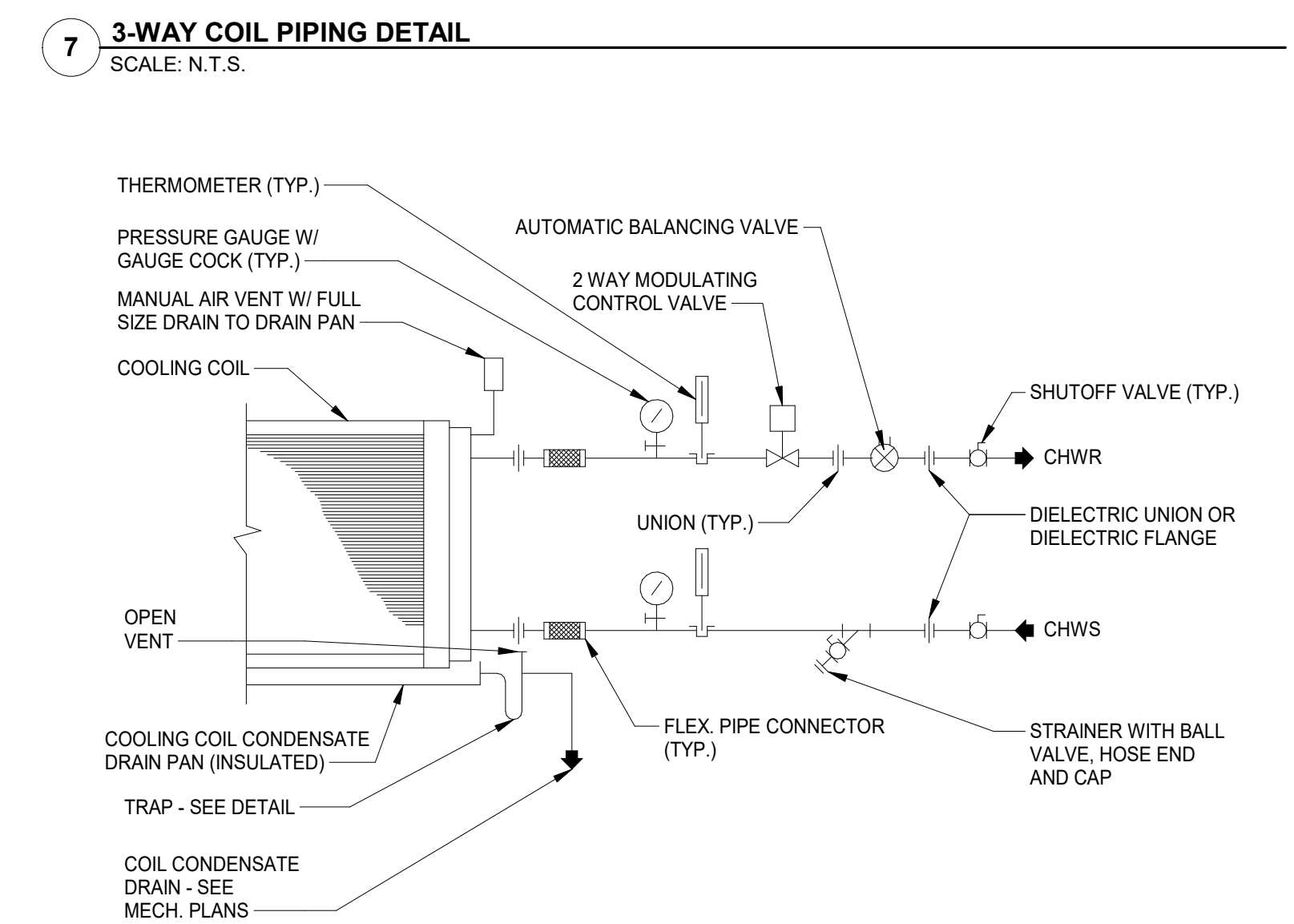
2 GAS EQUIPMENT CONNECTION DETAIL
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7 3-WAY COIL PIPING DETAIL
SCALE: N.T.S.



1 BOILER DETAIL
SCALE: N.T.S.

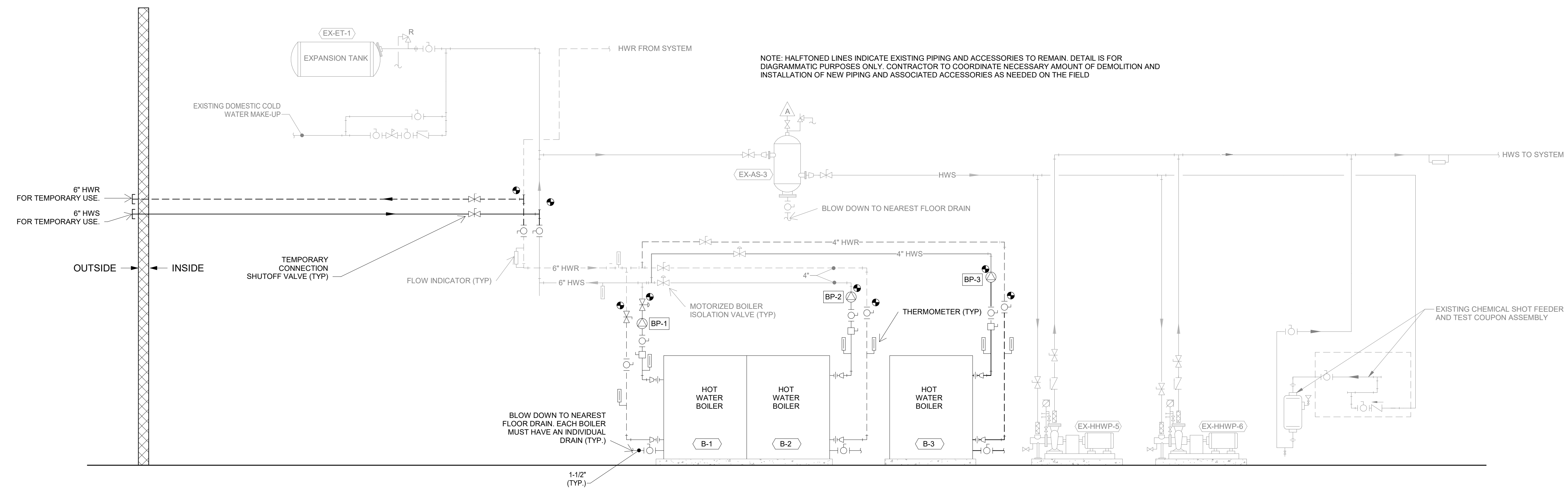


6 2-WAY COIL PIPING DETAIL
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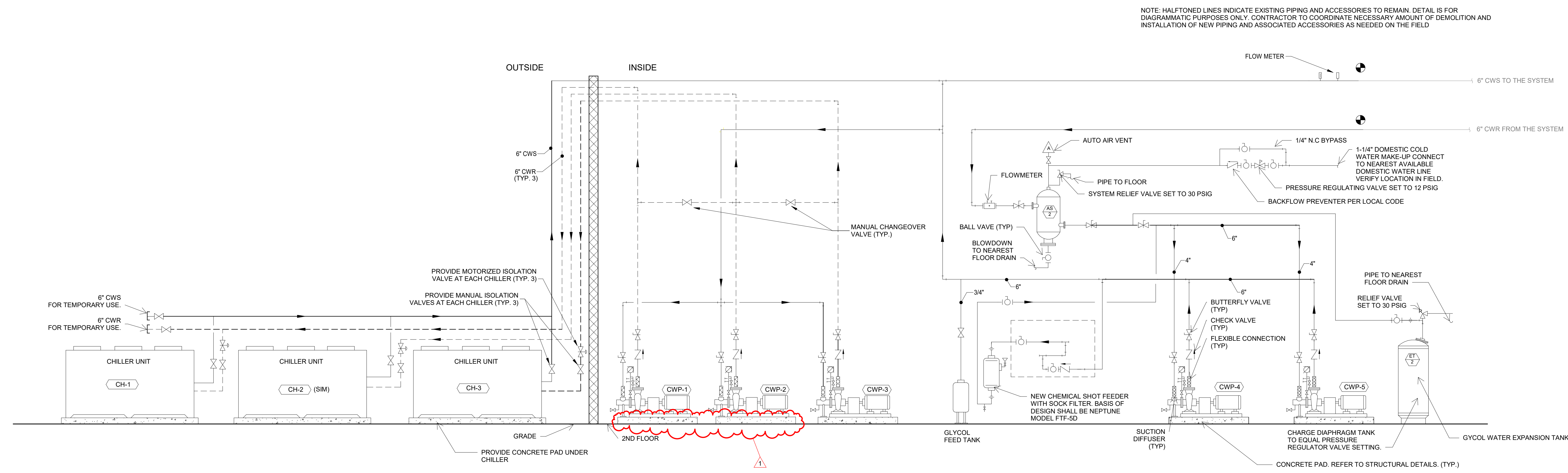
NOTES:

- FOR ACTUAL SIZES AND LOCATIONS OF PIPING AND OTHER CONNECTIONS TO THE HEATER, SEE DRAWINGS.
- SHELL DRAIN VALVE AND CONDENSATE HOSE SHOULD BE ARRANGED TO PERMIT THE FLUIDS TO DRAIN FREELY, BY GRAVITY, TO A FLOOR DRAIN. RELIEF VALVE DISCHARGE SHOULD BE PIPED TO THE NEAREST FLOOR DRAIN. WHEN NO FLOOR DRAIN IS AVAILABLE, THE RELIEF VALVE DISCHARGE SHOULD BE PIPED VERTICALLY TO A HEIGHT 18" ABOVE THE FLOOR.
- LOCATE WATER INLET AND OUTLET FITTINGS (i.e. UNIONS, ELBOWS, ETC.) A MINIMUM OF 6" FROM HEATER FITTINGS, TO PREVENT INTERFERENCE WITH REMOVAL OF BOILER PANELS AND COVERS. ALL PIPING AND ELECTRIC CONNECTIONS (SERVICE SWITCHES, CONDUIT BOXES) SHOULD LIKEWISE BE 6" AWAY FROM SIDE PANELS.
- THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES AND AUTHORITIES SHOULD BE CONSULTED.
- WHEN AVAILABLE GAS PRESSURE IS GREATER THAN 14" W.C., A LOCK-UP STYLE REGULATOR MUST BE INSTALLED DOWNSTREAM OF THE MANUAL SHUTOFF VALVE TO BRING THE GAS PRESSURE DOWN TO 14" W.C. OR LESS.
- WHEN USING THE AERCO CONDENSATE NEUTRALIZER TANK, FOR PROPER CONDENSATE DRAINAGE, THE NEUTRALIZER TANK MUST BE INSTALLED IN A PIT OR THE BOILER AND THE AERCO CONDENSATE TRAP MUST BE ELEVATED HIGHER THAN 4" ABOVE THE FLOOR. SEE CONDENSATE TANK INSTRUCTIONS TID-0074 FOR DETAILS.

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2 HYDRONIC PIPING DIAGRAM COMPLETE
SCALE: N.T.S.



1 CHILLED WATER PIPING DIAGRAM COMPLETE
SCALE: N.T.S.

NO.	REVISION	DATE
1	ADDENDUM #01	02/05/2025

DRAWN: CSH	CHKD: SJS	PROJECT NUMBER
DESIGNED: CSH	APPROVD: JRA	2363-1104-90
DATE: JANUARY 6, 2025		

DRAWING NUMBER
M5.2
MECHANICAL

NOTE:
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PORTER COUNTY BOARD OF COMMISSIONERS
PORTER COUNTY SHERIFF'S OFFICE & JAIL
FACILITY IMPROVEMENTS
2755 STATE ROAD 49
MECHANICAL DETAILS - 2

