

MEMORANDUM

To: All Interested Vendors

From: Dan Jones

Procurement Buyer

Date: March 8, 2023

Subject: Addendum No. 5

ITB 22-043 – HVAC Replacement – Main Library

New Estimate, Alternate Bid, Updated Drawings, Pre-Bid Meeting, New Deadline

Part I. Estimate

The estimated cost of \$7,700,000.00 including allowances, found on page 3.section E of the ITB has been revised to \$9,500,00.00 including allowances.

Part II. Alternate Bid

Bidder should provide alternate pricing for all scope associated with the demolition and replacement of AHU5 and AHU6. Include the relocation of the air cooled chiller power out of the AHU2 penthouse. The "Fillable Bid Form" has been updated to reflect the alternate bid structure.

Part III. Updated Drawings

H204A - HVAC ROOF NEW WORK PLAN - AREA A

Revise general note 2 requiring contactor be responsible for installing temporary ductwork to withstand high winds. Revise coded note 1 removing the requirement to support temporary ductwork overhead.

H204B - HVAC ROOF NEW WORK PLAN - AREA B

Revise general note 2 requiring contactor be responsible for installing temporary ductwork to withstand high winds. Revise temporary RTU requirements coded note 1. Revise coded note 3 removing the requirement to support temporary ductwork overhead.

H204C - HVAC ROOF NEW WORK PLAN - AREA C

Revise general note 2 requiring contactor be responsible for installing temporary ductwork to withstand high winds. Revise coded note 1 removing the requirement to support temporary ductwork overhead.

S101 – STRUCTURAL NOTES AND ROOF FRAMING PLAN A

Note#4 removed. Note #5 changed to Note #4 – Steel frame out of units does not apply.





S102 - STRUCTURAL NOTES AND ROOF FRAMING PLAN B

Note#4 removed. Note #5 changed to Note #4 – Steel frame out of units does not apply.

S103 - STRUCTURAL NOTES AND ROOF FRAMING PLAN C

Note#4 removed. Note #5 changed to Note #4 – Steel frame out of units does not apply.

Refer to Addendum #1; Questions and Answers number 11:

"Note: Any roofing contractor certified to install/repair Sika Sarnifil PVC roofing can perform the work of the project."

Updated Drawings are attached below.

IV. Pre-Bid Meeting

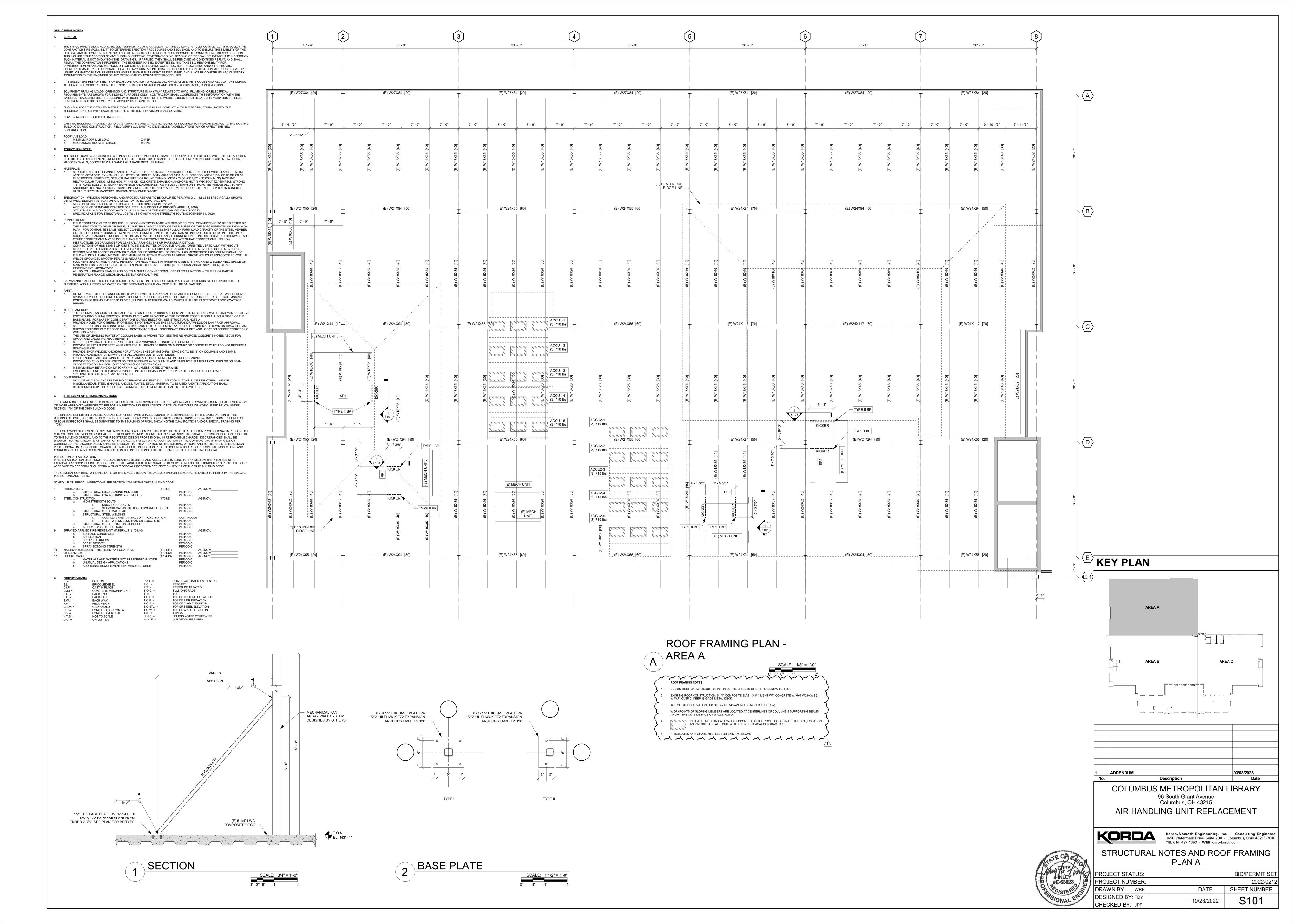
A pre-bid nmeeting is scheduled for Thursday, March 9, 2023 at 9:00 am to allow potential bidders the opportunity to ask any final questions. Please rsvp to procurement@columbuslibrary.org.

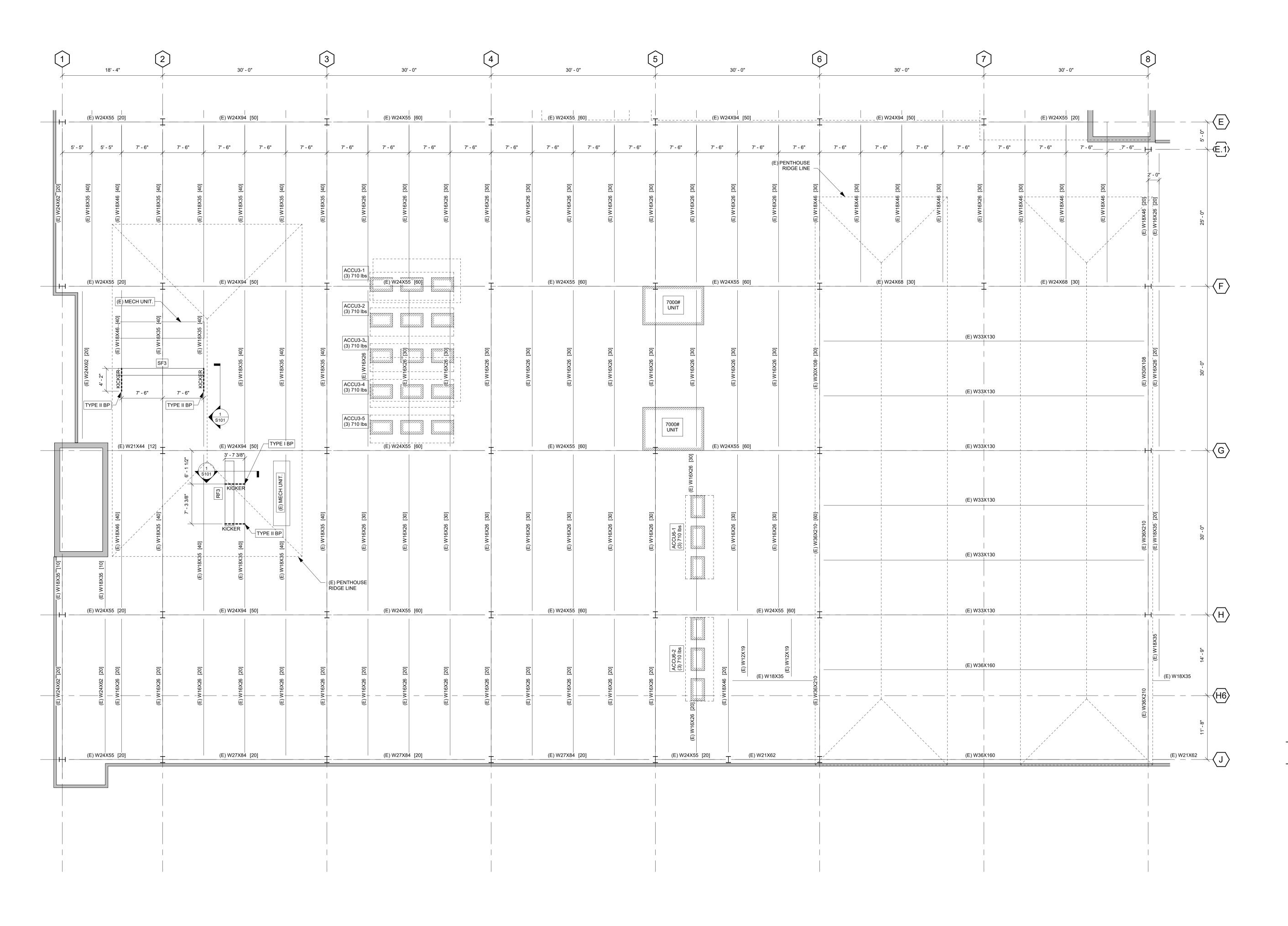
V. Due Date

Bid are due Tuesday, March 14, at 12:00 pm NOON.

BIDDERS ARE REQUIRED TO ACKNOWLEDGE THE RECEIPT OF THIS MEMORANDUM (ADDENDUM NO. 5) ON THE ACKNOWLEDGEMENT OF ADDENDA FORM IN THE ITB DOCUMENTS.



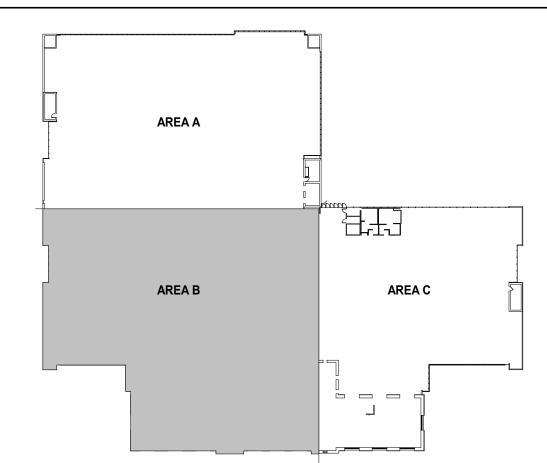




ROOF FRAMING PLAN -

DESIGN ROOF SNOW LOADS = 20 PSF PLUS THE EFFECTS OF DRIFTING SNOW PER OBC. EXISTING ROOF CONSTRUCTION: 5-1/4" COMPOSITE SLAB - 3-1/4" LIGHT WT. CONCRETE W/ 6X6-W2.9XW2.9 W.W.F. OVER 2" DEEP 18 GAGE METAL DECK. TOP OF STEEL ELEVATION (T.O.STL.) = EL. 143'-4" UNLESS NOTED THUS: (+/-). WORKPOINTS OF SLOPING MEMBERS ARE LOCATED AT CENTERLINES OF COLUMNS & SUPPORTING BEAMS INDICATES MECHANICAL LOADS SUPPORTED ON THE ROOF. COORDINATE THE SIZE, LOCATION AND WEIGHTS OF ALL UNITS WITH THE MECHANICAL CONTRACTOR. 5. *- INDICATES A572 GRADE 50 STEEL FOR EXISTING BEAMS

KEY PLAN

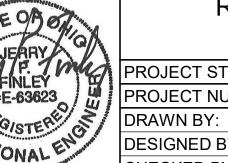


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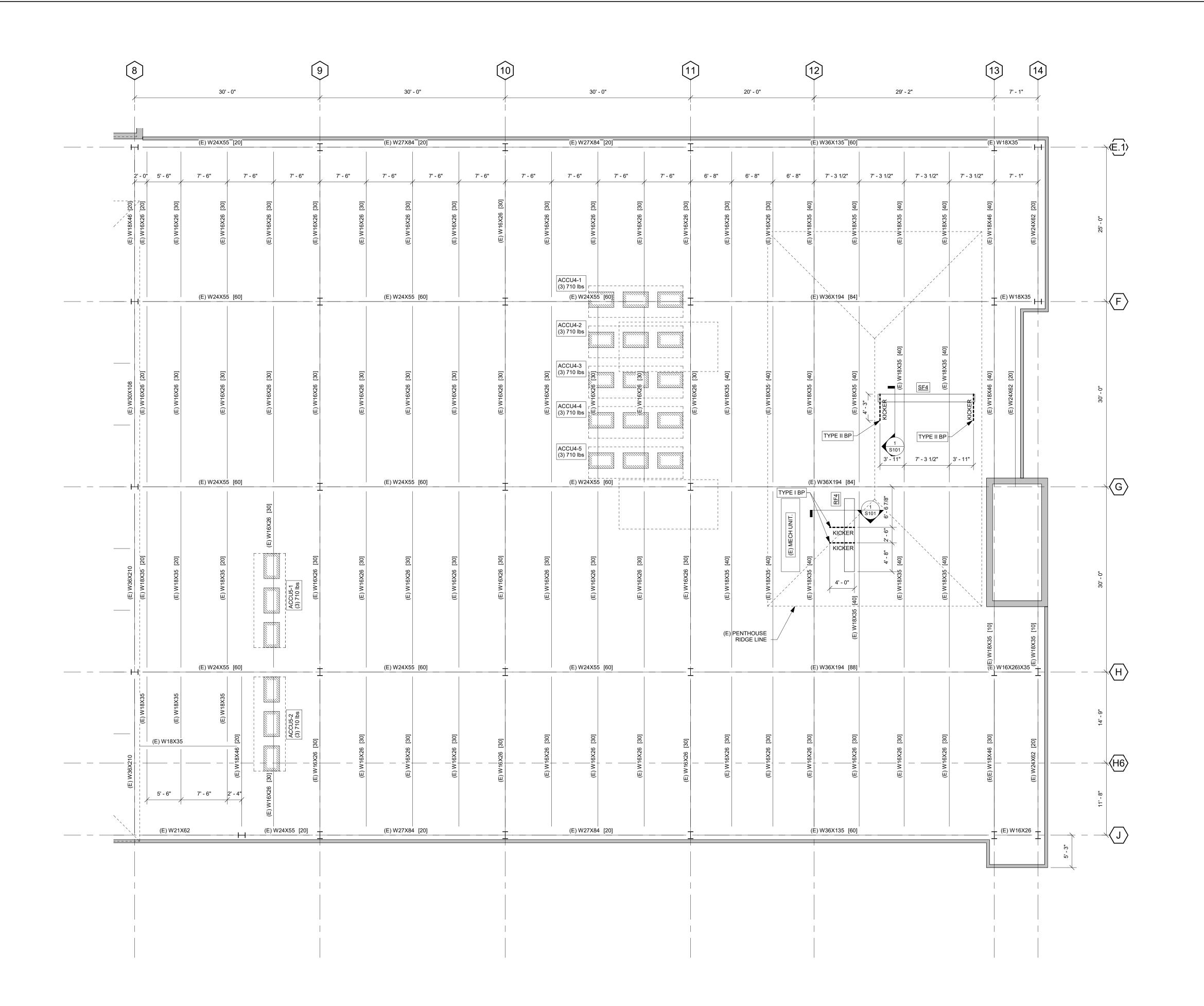
COLUMBUS METROPOLITAN LIBRARY 96 South Grant Avenue Columbus, OH 43215

AIR HANDLING UNIT REPLACEMENT

Korda/Nemeth Engineering, Inc. - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - WEB www.korda.com ROOF FRAMING PLAN - AREA B



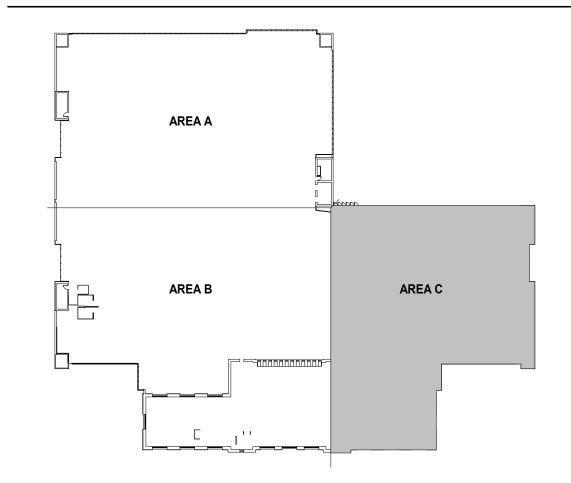
10000001	PROJECT STATUS:		BID/PERMIT SET
	PROJECT NUMBER:		2022-0212
	DRAWN BY: WRH	DATE	SHEET NUMBER
	DESIGNED BY: TDY	10/28/2022	S102
	CHECKED BY: JPF	10/20/2022	3102





DESIGN ROOF SNOW LOADS = 20 PSF PLUS THE EFFECTS OF DRIFTING SNOW PER OBC. EXISTING ROOF CONSTRUCTION: 5-1/4" COMPOSITE SLAB - 3-1/4" LIGHT WT. CONCRETE W/ 6X6-W2.9XW2.9 W.W.F. OVER 2" DEEP 18 GAGE METAL DECK. TOP OF STEEL ELEVATION (T.O.STL.) = EL. 143'-4" UNLESS NOTED THUS: (+/-). WORKPOINTS OF SLOPING MEMBERS ARE LOCATED AT CENTERLINES OF COLUMNS & SUPPORTING BEAMS AND AT THE OUTSIDE FACE OF WALLS, U.N.O. INDICATES MECHANICAL LOADS SUPPORTED ON THE ROOF. COORDINATE THE SIZE, LOCATION AND WEIGHTS OF ALL UNITS WITH THE MECHANICAL CONTRACTOR. 5. * - INDICATES A572 GRADE 50 STEEL FOR EXISTING BEAMS Ammunum Manda

KEY PLAN

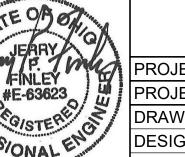


No.	Description	Date
1	ADDENDUM	03/08/2023

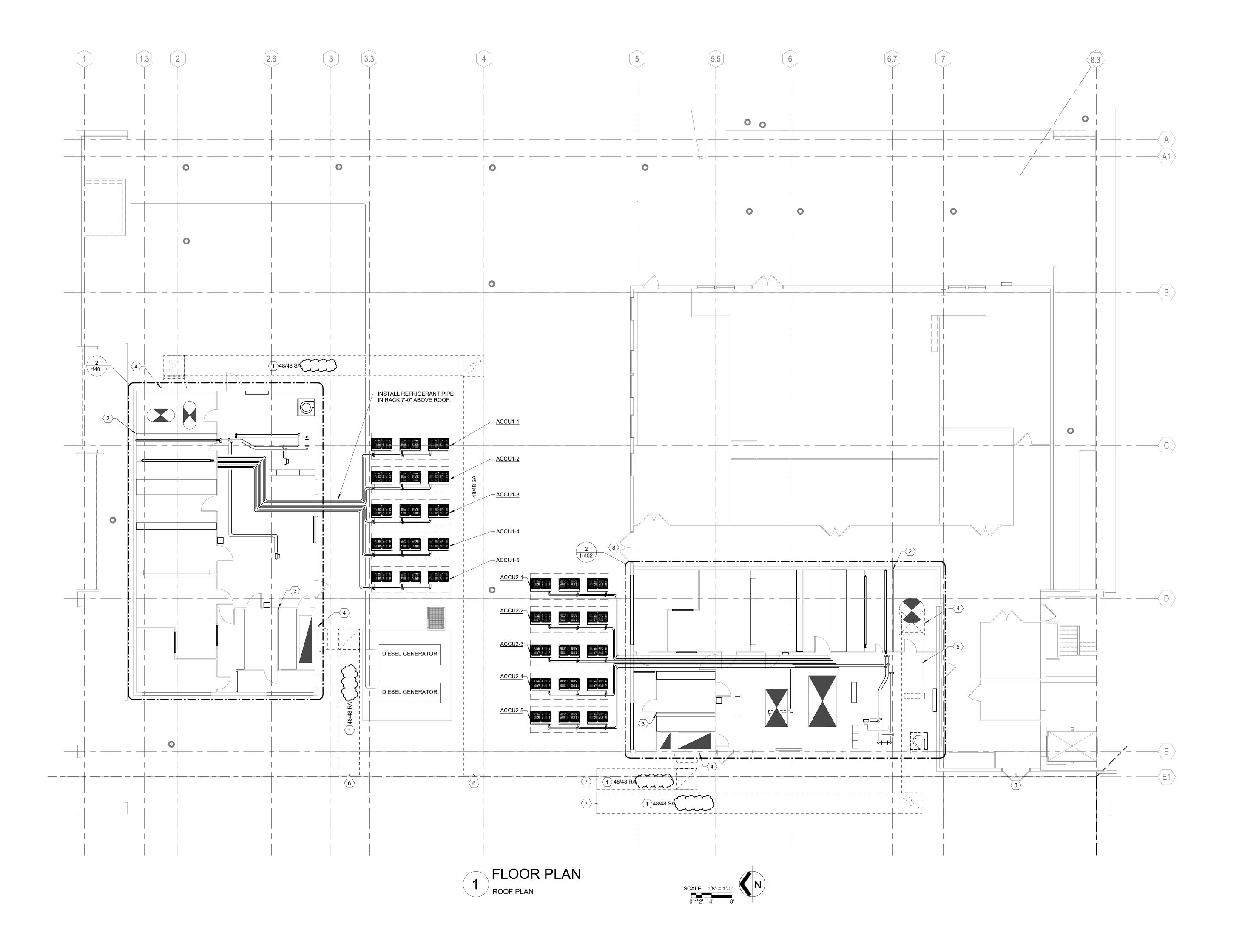
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PROJECT STATUS:		BID/PERMIT SET
PROJECT NUMBER:		2022-0212
DRAWN BY: WRH	DATE	SHEET NUMBER
DESIGNED BY: TDY	10/28/2022	S103
CHECKED BY: JPF	10/20/2022	3103



GENERAL/PHASING NOTES:

1. TEMPORARY HEATING AND COOLING IS REQUIRED WHILE EACH AHU IS BEING REFURBISHED. UNITS SHALL BE REFURBISHED ONE AT A TIME. CONSTRUCTION SHALL TAKE PLACE DURING THE MONTHS OF NOVEMBER THROUGH MARCH. TEMPORARY UNITS <u>RTU1</u> AND <u>RTU2</u> WILL PROVIDE A REDUCED AIRFLOW SUFFICIENT TO MEET THE HEATING AND COOLING DEMANDS IN THE WINTER MONTHS OF CONSTRUCTION

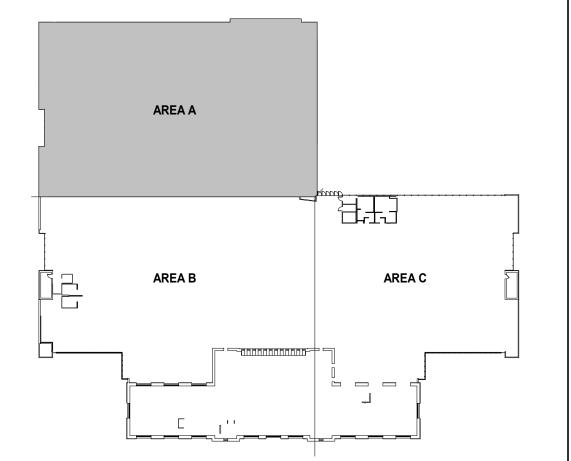
2. DUCTWORK SHALL BE INSULATED DOUBLE WALL RIGID DUCTWORK. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT DUCTWORK REMAINS IN PLACE DURING HEAVY WINDS. 3. REPAIR AND PAINT TEMPORARY DUCT OPENINGS IN AHU WALLS TO PRE-CONSTRUCTION CONDITION.

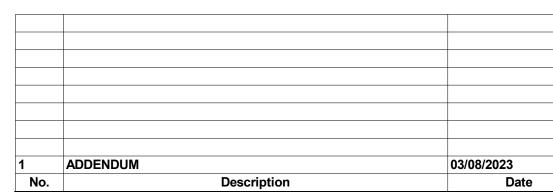
CODED NOTES:

1. INSTALL TEMPORARY SUPPLY AND RETURN MAINS ON ROOF. 2. BUILD FULL SIZE TEMPORARY WALL TO ISOLATE THE SUPPLY PLENUM FROM THE REMAINDER OF THE AHU WHILE THE AHU IS UNDER CONSTRUCTION. REMOVE TEMPORARY WALL WHEN WORK IS COMPLETE.

- 3. BUILD FULL SIZE TEMPORARY WALL TO ISOLATE THE RETURN PLENUM FROM THE REMAINDER OF THE AHU WHILE THE AHU IS UNDER CONSTRUCTION. REMOVE TEMPORARY WALL WHEN WORK IS COMPLETE.
- 4. 60/60 CONNECTION TO AIR HANDLING UNIT.
- ROUTE SUPPLY DUCT ACROSS ROOF OF <u>AHU2</u>. CONNECT TO SUPPLY PLENUM THROUGH ROOF WITH 60/60 TRANSITION.
- 6. EXTEND TEMPORARY SUPPLY AND RETURN MAINS SERVING AHU1 TO THE POINT OF CONNECTION AT RTU1 AND RTU2 AND RF7. REMOVE TEMPORARY DUCTWORK WHEN WORK IS COMPLETE.
- 7. EXTEND TEMPORARY SUPPLY AND RETURN MAINS SERVING AHU2 TO THE POINT OF CONNECTION AT <u>RTU1</u> AND <u>RTU2</u> AND <u>RF7</u>. REMOVE TEMPORARY DUCTWORK WHEN WORK IS COMPLETE.
- 8. DO NOT IMPEDE EGRESS PATH IN FRONT OF PENTHOUSE DOORS.

KEY PLAN





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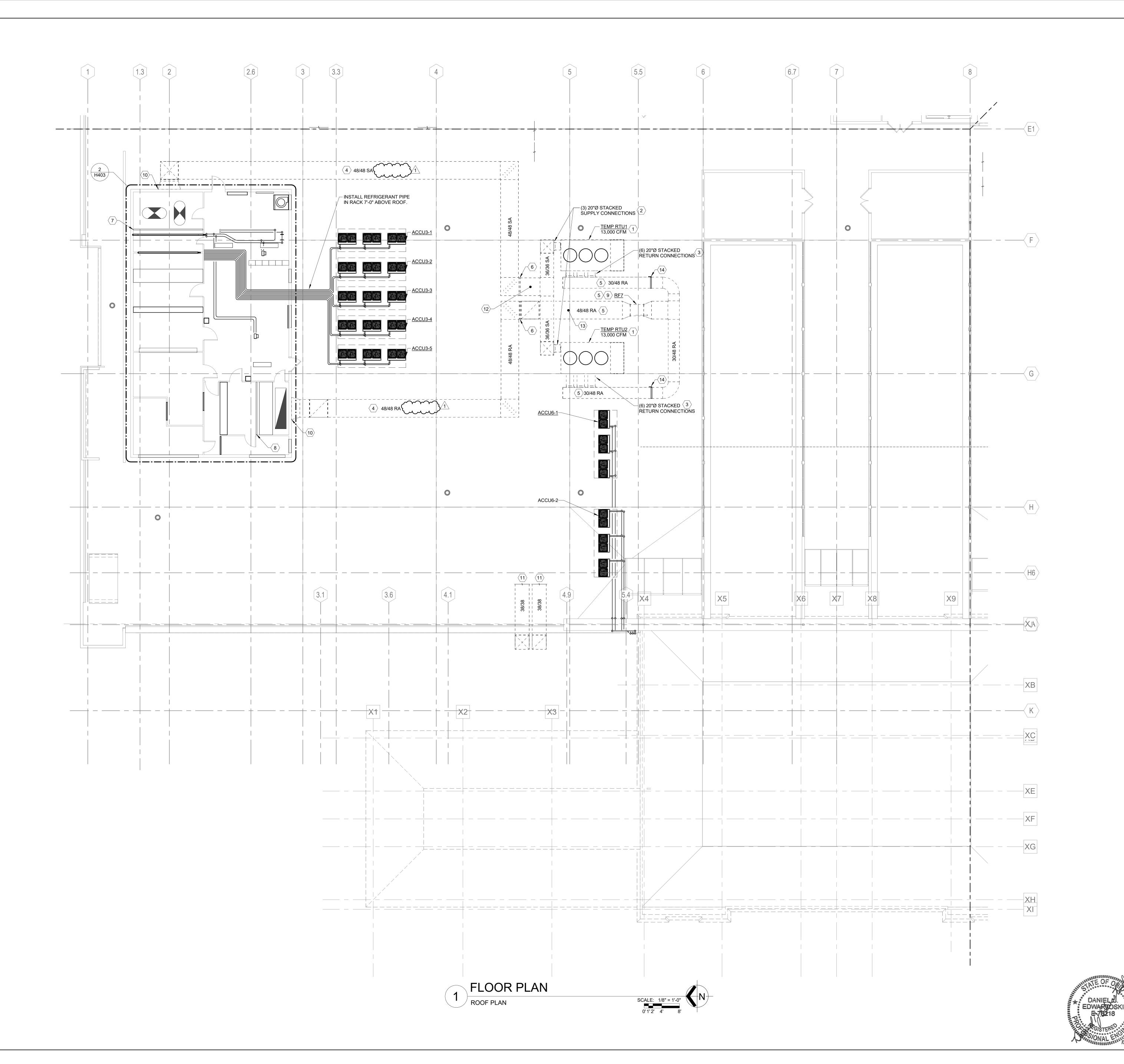
AIR HANDLING UNIT REPLACEMENT

CHECKED BY: Stephen Wilmoth

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1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - WEB www.korda.com HVAC ROOF NEW WORK PLAN - AREA A

10/28/2022

BID/PERMIT SET PROJECT STATUS: PROJECT NUMBER: SHEET NUMBER DRAWN BY: Dave Balch DESIGNED BY: Dan Edwartoski H204A



GENERAL/PHASING NOTES:

1. TEMPORARY HEATING AND COOLING IS REQUIRED WHILE EACH AHU IS BEING REFURBISHED. UNITS SHALL BE REFURBISHED ONE AT A TIME. CONSTRUCTION SHALL TAKE PLACE DURING THE MONTHS OF NOVEMBER THROUGH MARCH. TEMPORARY UNITS <u>RTU1</u> AND <u>RTU2</u> WILL PROVIDE A REDUCED AIRFLOW SUFFICIENT TO MEET THE

CONSTRUCTION. DUCTWORK SHALL BE INSULATED DOUBLE WALL RIGID DUCTWORK. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT DUCTWORK REMAINS IN PLACE DURING HEAVY WINDS. 3. REPAIR AND PAINT TEMPORARY DUCT OPENINGS IN AHU WALLS TO

HEATING AND COOLING DEMANDS IN THE WINTER MONTHS OF

PRE-CONSTRUCTION CONDITION.

CODED NOTES:

13,500 CFM, 2.5 ESP, 90 KW 3-STAGE HEAT. TWO TEMPORARY UNITS ARE REQUIRED TO RUN SIMULTANEOUSLY. REMOVE TEMPORARY UNITS WHEN WORK IS COMPLETE. 2. (3) 20"Ø SUPPLY CONNECTIONS HARD DUCTED TO VERTICAL SUPPLY

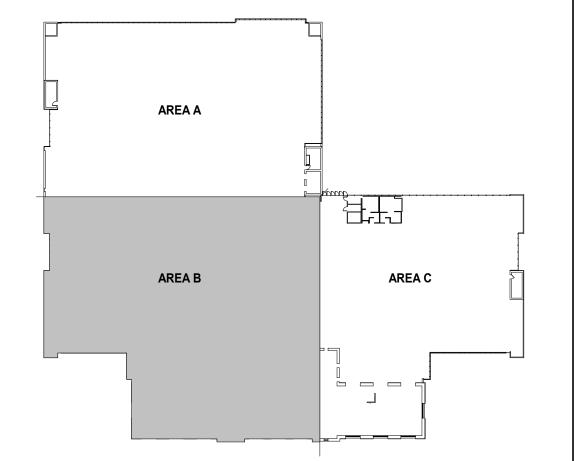
3. (6) 20"Ø RETURN CONNECTIONS HARD DUCTED TO RETURN MAIN. 4. INSTALL TEMPORARY SUPPLY AND RETURN MAINS ON ROOF.

- 5. INSTALL RETURN MAIN, RETURN FAN RF7 AND BRANCH DUCTWORK TO RTU1 AND RTU2 LOW AT ROOF LEVEL. ENSURE A SERVICE PATH TO THE RTU1 AND RTU2 CONTROL PANELS. REMOVE TEMPORARY DUCTWORK WHEN WORK IS COMPLETE.
- 6. POINT OF CONNECTION TO TEMPORARY SUPPLY AND RETURN MAINS. CONNECT TEMPORARY DUCTS SERVING AHU1, AHU2, AHU3, AHU4, AHU5 AND AHU6 AT THIS LOCATION. REMOVE TEMPORARY DUCTWORK WHEN WORK IS COMPLETE.

BUILD FULL SIZE TEMPORARY WALL TO ISOLATE THE SUPPLY PLENUM

- FROM THE REMAINDER OF THE AHU WHILE THE AHU IS UNDER CONSTRUCTION. REMOVE TEMPORARY WALL WHEN WORK IS
- 8. BUILD FULL SIZE TEMPORARY WALL TO ISOLATE THE RETURN PLENUM FROM THE REMAINDER OF THE AHU WHILE THE AHU IS UNDER CONSTRUCTION. REMOVE TEMPORARY WALL WHEN WORK IS COMPLETE.
- 9. INSTALL RETURN FAN ON ISOLATION RAILS.
- 10. 60/60 CONNECTION TO AIR HANDLING UNIT.
- 11. EXTEND TEMPORARY SUPPLY AND RETURN MAINS SERVING AHU6 TO THE POINT OF CONNECTION AT RTU1 AND RTU2 AND RF7. REMOVE TEMPORARY DUCTWORK WHEN WORK IS COMPLETE.
- 12. INSTALL DISCHARGE AIR TEMPERATURE SENSOR AND DUCT STATIC PRESSURE SENSOR IN THIS SEGMENT OF DUCT. REBALANCE SYSTEM UPON INSTALLATION OF TEMPORARY DUCTWORKS TO EACH AHU.
- 13. INSTALL RETURN AIR TEMPERATURE SENSOR AND DUCT STATIC PRESSURE SENSOR IN THIS SEGMENT OF DUCT. REBALANCE SYSTEM UPON INSTALLATION OF TEMPORARY DUCTWORKS TO EACH AHU.
- 14. HIGH VELOCITY BALANCE DAMPER.

KEY PLAN



No.	Description	Date
1	ADDENDUM	03/08/2023

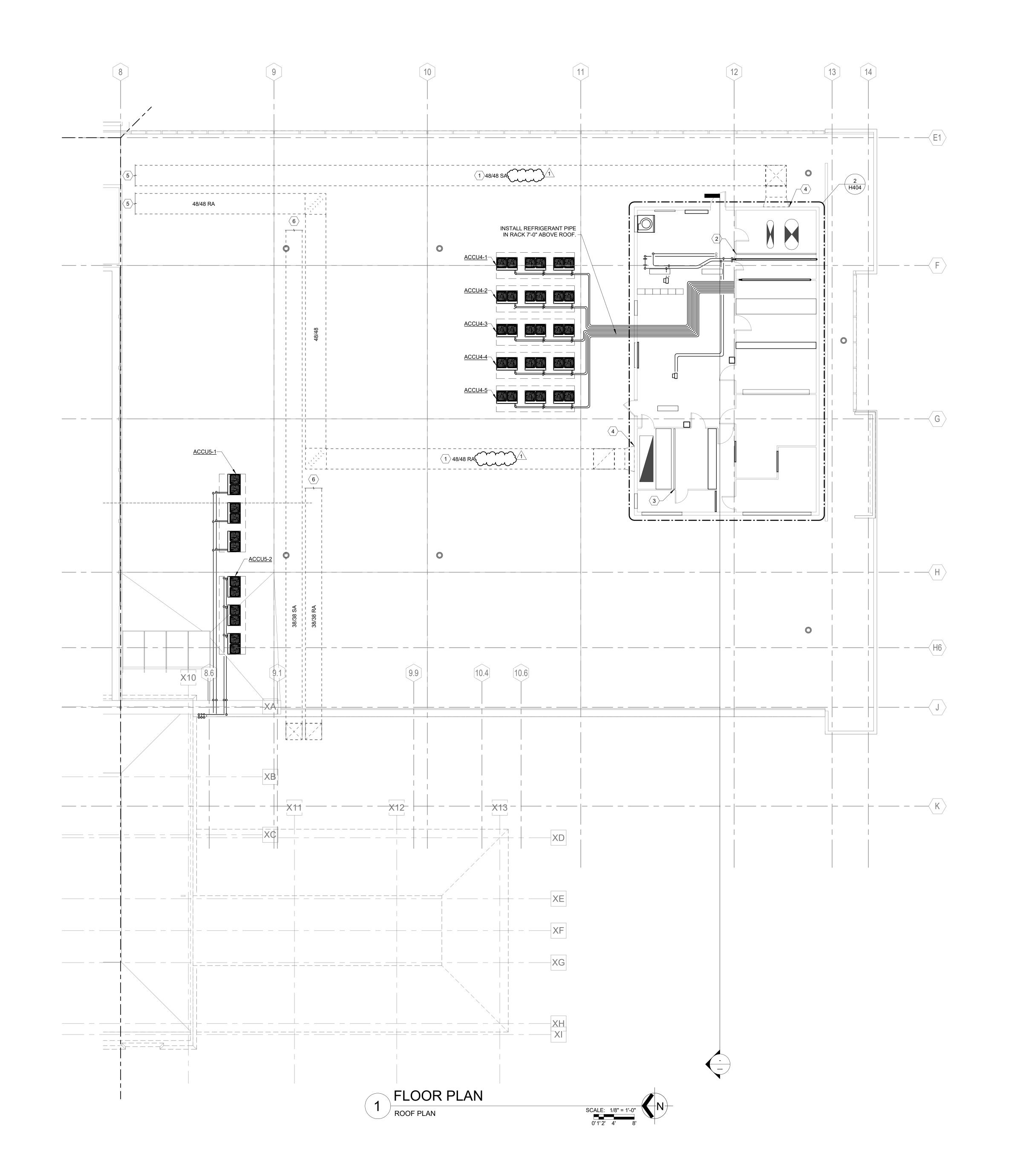
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HVAC ROOF NEW WORK PLAN - AREA B

BID/PERMIT SET PROJECT STATUS: PROJECT NUMBER: SHEET NUMBER DRAWN BY: Dave Balch DESIGNED BY: Dan Edwartoski H204B 10/28/2022 CHECKED BY: Stephen Wilmoth



GENERAL/PHASING NOTES:

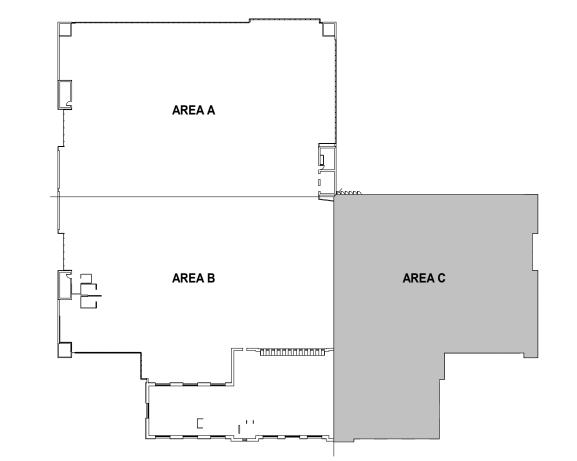
CONSTRUCTION.

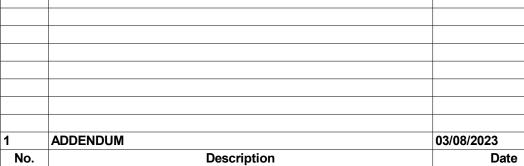
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- DUCTWORK SHALL BE INSULATED DOUBLE WALL RIGID DUCTWORK. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT DUCTWORK REMAINS IN PLACE DURING HEAVY WINDS. 3. REPAIR AND PAINT TEMPORARY DUCT OPENINGS IN AHU WALLS TO PRE-CONSTRUCTION CONDITION.

1. INSTALL TEMPORARY SUPPLY AND RETURN MAINS ON ROOF. BUILD FULL SIZE TEMPORARY WALL TO ISOLATE THE SUPPLY PLENUM FROM THE REMAINDER OF THE AHU WHILE THE AHU IS UNDER CONSTRUCTION. REMOVE TEMPORARY WALL WHEN WORK IS COMPLETE.

- 3. BUILD FULL SIZE TEMPORARY WALL TO ISOLATE THE RETURN PLENUM FROM THE REMAINDER OF THE AHU WHILE THE AHU IS UNDER CONSTRUCTION. REMOVE TEMPORARY WALL WHEN WORK IS COMPLETE.
- 4. 60/60 CONNECTION TO AIR HANDLING UNIT.
- 5. EXTEND TEMPORARY SUPPLY AND RETURN MAINS SERVING AHU4 TO THE POINT OF CONNECTION AT RTU1 AND RTU2 AND RF7. STACK DUCTS AS REQUIRED TO MAINTAIN SERVICE PATH BETWEEN AHU2 AND THIRD FLOOR CLERESTORY. REMOVE TEMPORARY DUCTWORK WHEN WORK IS COMPLETE.
- 6. EXTEND TEMPORARY SUPPLY AND RETURN MAINS SERVING AHU5 TO THE POINT OF CONNECTION AT RTU1 AND RTU2 AND RF7. REMOVE TEMPORARY DUCTWORK WHEN WORK IS COMPLETE.

KEY PLAN



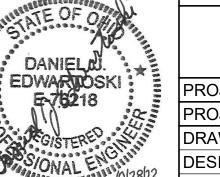


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HVAC ROOF NEW WORK PLAN - AREA C



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DRAWN BY: Dave Balch	DATE	SHEET NUMBER
DESIGNED BY: Dan Edwartoski	10/28/2022	H204C
CHECKED BY: Stephen Wilmoth	10/20/2022	11ZU4C
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