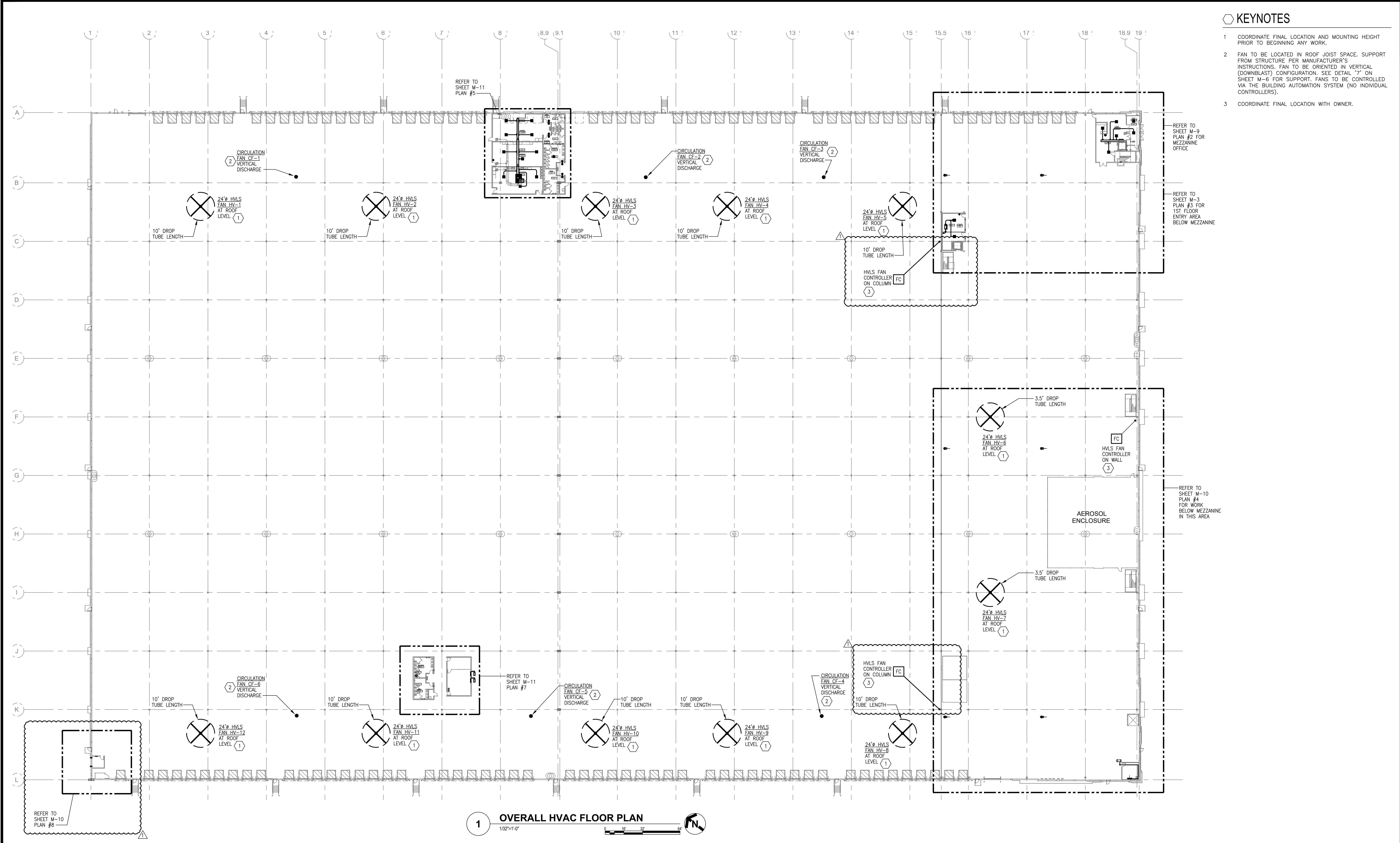


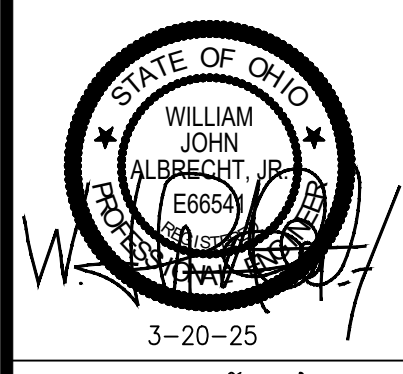
BA 2025 Project: Kessler 250228\Engineering\Design\DWG Files\PROJECT KEVLAR BLVD TI MECH.dwg 10/22/2025 1:34 PM



1 OVERALL HVAC FLOOR PLAN
1/32"=1'-0"

- KEYNOTES**
- COORDINATE FINAL LOCATION AND MOUNTING HEIGHT PRIOR TO BEGINNING ANY WORK.
 - FAN TO BE LOCATED IN ROOF JOIST SPACE, SUPPORT FROM STRUCTURE PER MANUFACTURER'S INSTRUCTIONS. FAN TO BE ORIENTED IN VERTICAL (DOWNBLAST) CONFIGURATION. SEE DETAIL '7' ON SHEET M-6 FOR SUPPORT. FANS TO BE CONTROLLED VIA THE BUILDING AUTOMATION SYSTEM (NO INDIVIDUAL CONTROLLERS).
 - COORDINATE FINAL LOCATION WITH OWNER.

DATE	ISSUE/REVISION
3-21-25	CKB PERMIT SET
7-3-25	CKB UPDATED H.V.L.S. FAN CONTROLLER LOCATIONS
10-22-25	CKB ADDED FIRE COMMAND CENTER



MODEL, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.



OVERALL HVAC PLAN
HVAC RENOVATIONS FOR:
PROJECT KEVLAR/BJ'S TI
180 KENMORE BLVD.
COMMERCIAL POINT, OHIO 43116

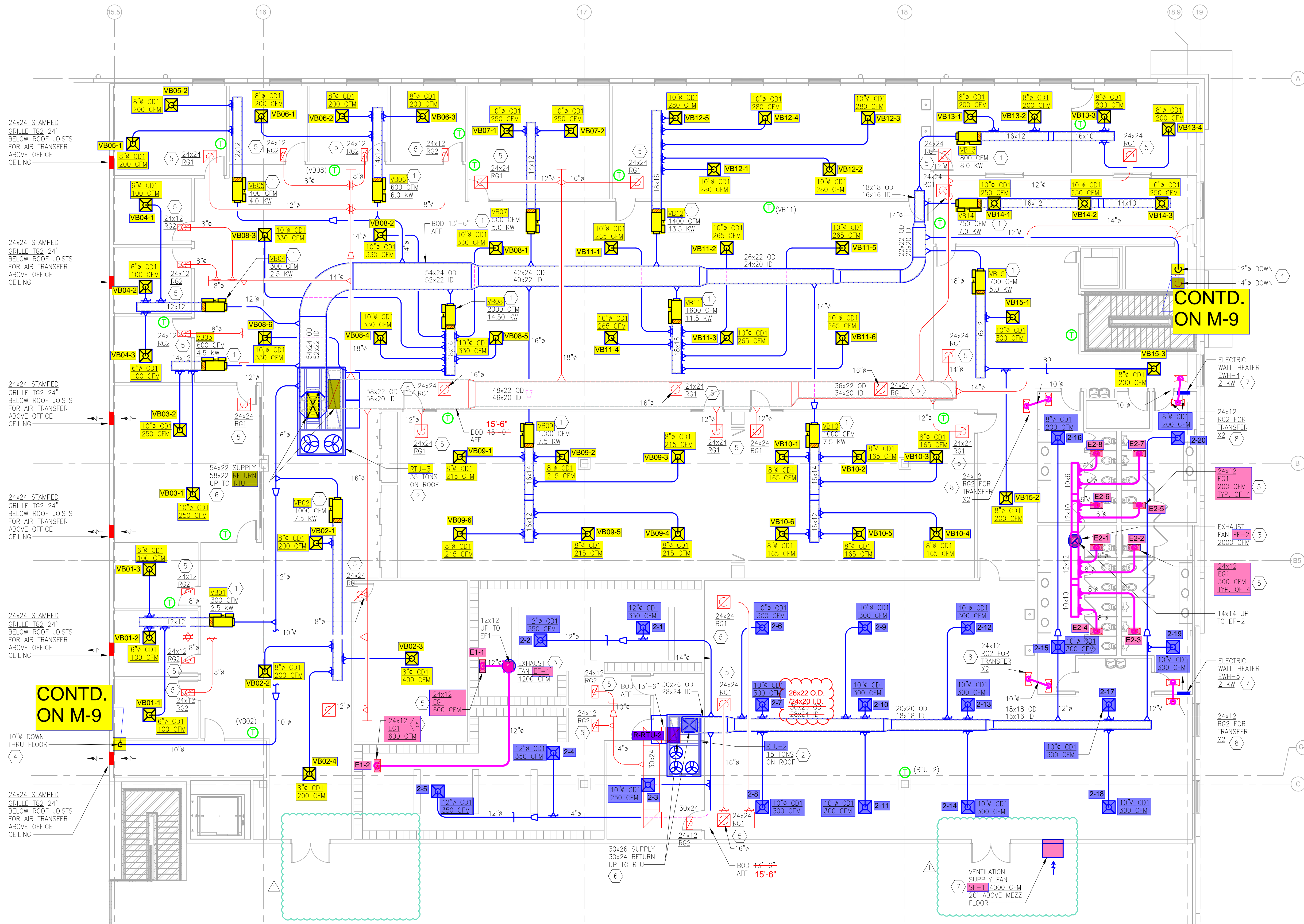
JOB NO.: 25028
SCALE: AS NOTED
DATE: 3-20-25
DRAWN BY: CKB
APPROVED BY: CSL
DRAWING NUMBER:
M-8
REVISION NO.: 2

GENERAL NOTES

- A ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK TO BE INTERNALLY LINED (1" THICK). ALL VAV BOX DISCHARGE DUCTWORK SIZES SHOWN ARE OUTSIDE DIMENSION. FREE AREA WILL BE 2" SMALLER IN EACH DIRECTION.
- B ALL ROUND DUCTWORK TO UTILIZE WRAPPED INSULATION.
- C COORDINATE ALL EXHAUST FAN LOCATIONS, DUCT DROPS AND AIR DEVICES LOCATIONS WITH FIRE PROTECTION PIPING AND ESFR/SPRINKLER HEADS.
- D THERMOSTATS TO BE MOUNTED AT 60" AFF.

KEYNOTES

- 1 INSTALL VAV BOX MAINTAINING CODE REQUIRED CLEARANCE IN FRONT OF DUCT HEATER ACCESS DOOR SWING AND VAV BOX CONTROL PANEL.
- 2 RTU ON ROOF CURB. SEE SHEETS M-12 AND M-13 FOR GAS PIPING AND INSTALLATION DETAILS FOR RTU. PROVIDE SMOKE DETECTOR IN RETURN DUCT NEAR UNIT. COORDINATE WITH ELECTRICAL CONTRACTOR.
- 3 EXHAUST FAN ON ROOF CURB. TRANSITION DUCT TO FAN CONNECTION. PROVIDE GRAVITY DAMPER TRAY AT FAN INLET.
- 4 SEE SHEET M-10 FOR CONTINUATION BELOW. COORDINATE DUCT ROUTINGS AND REQUIRED FLOOR OPENINGS WITH ALL OTHER TRADES PRIOR TO ROUTING ANY DUCT IN THIS AREA.
- 5 PROVIDE PLENUM BOX ON TOP OF GRILLE FOR DUCT CONNECTION.
- 6 TRANSITION DUCTS AS REQUIRED AT UNIT CONNECTION. RETURN DUCT TO UTILIZE 1" INTERNAL INSULATION FOR FIRST (2) SECTIONS OF VERTICAL DUCT OFF UNIT CONNECTION. SUPPLY DUCT TO UTILIZE 1" INTERNAL INSULATION FOR ENTIRE RUN AS SHOWN.
- 7 MOUNT RECESSED INTO WALL.
- 8 PROVIDE PLENUM BOX ON GRILLE FOR DUCT CONNECTION. ROUTE 10" TRANSFER DUCT BETWEEN GRILLES AS SHOWN.

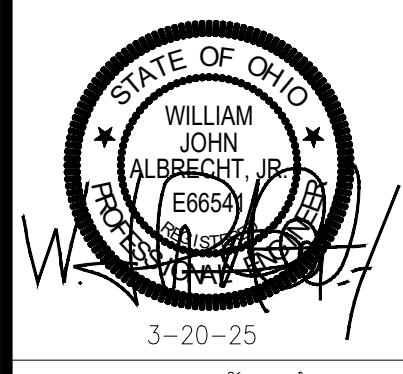


CONT.
ON M-9

CONT.
ON M-9

2 ENLARGED MEZZANINE OFFICE HVAC PLAN
1/8"=1'-0"

DATE: 3-21-25 BY: CKB PERMIT SET



MODEL: CONSULTING HAS REVIEWED THIS PLAN FOR CONFORMANCE WITH THE MECHANICAL CODES OF THE STATE OF OHIO. THIS REVIEW IS LIMITED TO THE MECHANICAL ASPECTS OF THE PLAN AND DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED HEREON. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS PLAN OR FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THIS PLAN WITHOUT THE CONSULTANT'S WRITTEN PERMISSION.



ENLARGED HVAC FLOOR PLAN
HVAC RENOVATIONS FOR:
PROJECT KEVLAR/BJS TT
180 KENMORE BLVD.
COMMERCIAL POINT, OHIO 43116

JOB NO.: 25028
SCALE: AS NOTED
DATE: 3-20-25
DRAWN BY: CKB
APPROVED BY: CSL
DRAWING NUMBER:
M-9
REVISION NO.: 0

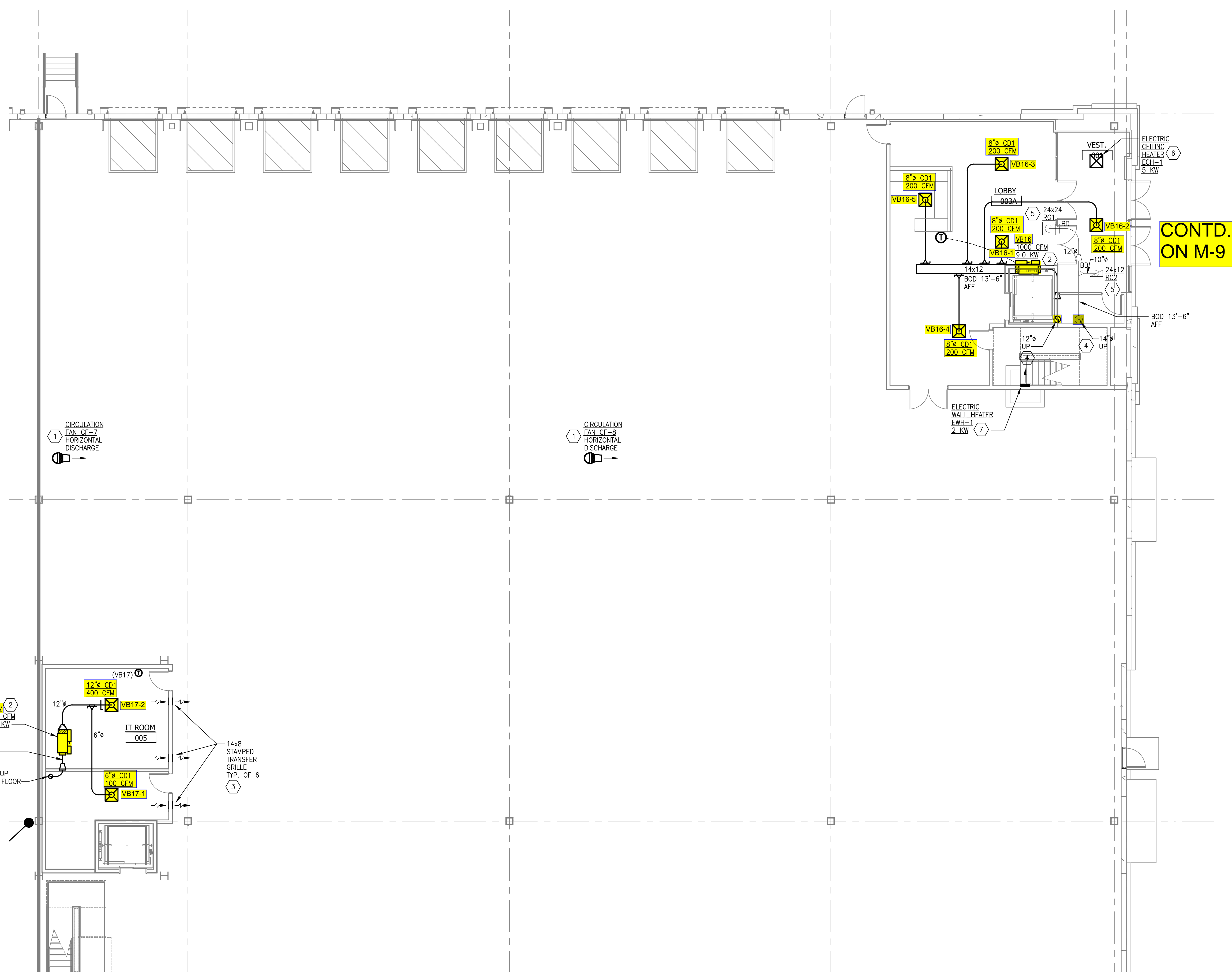
BA_2025\Project_Kevlar_25028\Engineering\Design\DWG_Electrical\PROJECT_REV\LAB_Bls_TL_MECH.dwg 6/5/2025 7:59 AM

GENERAL NOTES

- A ALL RECTANGULAR SUPPLY DUCTWORK TO BE INTERNALLY LINED (1" THICK). ALL VAV BOX DISCHARGE DUCTWORK SIZES SHOWN ARE OUTSIDE DIMENSION. FREE AREA WILL BE 2" SMALLER IN EACH DIRECTION.
- B ALL ROUND DUCTWORK TO UTILIZE WRAPPED INSULATION.
- C COORDINATE ALL EXHAUST FAN LOCATIONS, DUCT DROPS AND AIR DEVICES LOCATIONS WITH FIRE PROTECTION PIPING AND ESFR/SPRINKLER HEADS.
- D THERMOSTATS TO BE MOUNTED AT 60" AFF.

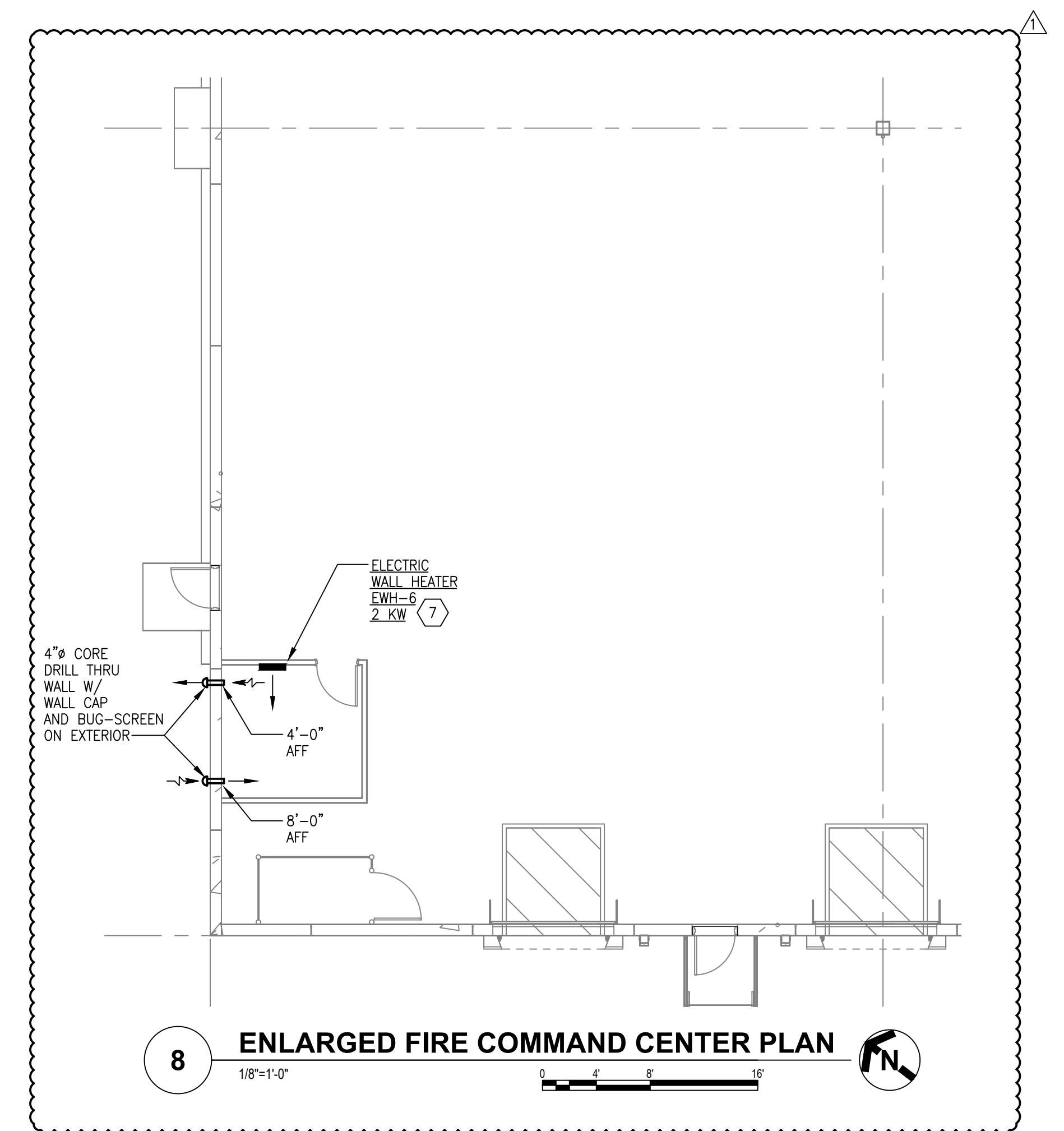
KEYNOTES

- 1 INSTALL FAN AT 30° DOWNWARD ANGLE TO PUSH AIR TOWARDS THE OUTSIDE WALL. SUPPORT FAN FROM MEZZ STRUCTURE PER MANUFACTURER'S INSTRUCTIONS. SEE SECTION 'A' ON SHEET M-13 FOR CLARITY.
- 2 INSTALL VAV BOX MAINTAINING CODE REQUIRED CLEARANCE IN FRONT OF DUCT HEATER ACCESS DOOR SWING AND VAV BOX CONTROL PANEL.
- 3 MOUNT ON EITHER SIDE OF WALL 7'-6" AFF. ENSURE AREA BETWEEN GRILLES IN WALL IS CLEAR FROM OBSTRUCTION TO ALLOW FOR AIR TRANSFER.
- 4 SEE SHEET M-9 FOR CONTINUATION ABOVE.
- 5 PROVIDE PLENUM BOX ON TOP OF RETURN GRILLE FOR DUCT CONNECTION.
- 6 INSTALL IN CEILING PER MANUFACTURER'S INSTRUCTIONS.
- 7 MOUNT RECESSED INTO WALL.



3 ENLARGED 1ST FLOOR HVAC PLAN
1/8"=1'-0"

CONTD. ON M-9



8 ENLARGED FIRE COMMAND CENTER PLAN
1/8"=1'-0"

ISSUE/REVISION	DATE	BY
PERMIT SET	3-21-25	CKB
ADDED FIRE COMMAND CENTER DETAILS	10-22-23	CKB

STATE OF OHIO
WILLIAM JOHNS
ALBRECHT, JR.
REGISTERED PROFESSIONAL ENGINEER
3-20-25

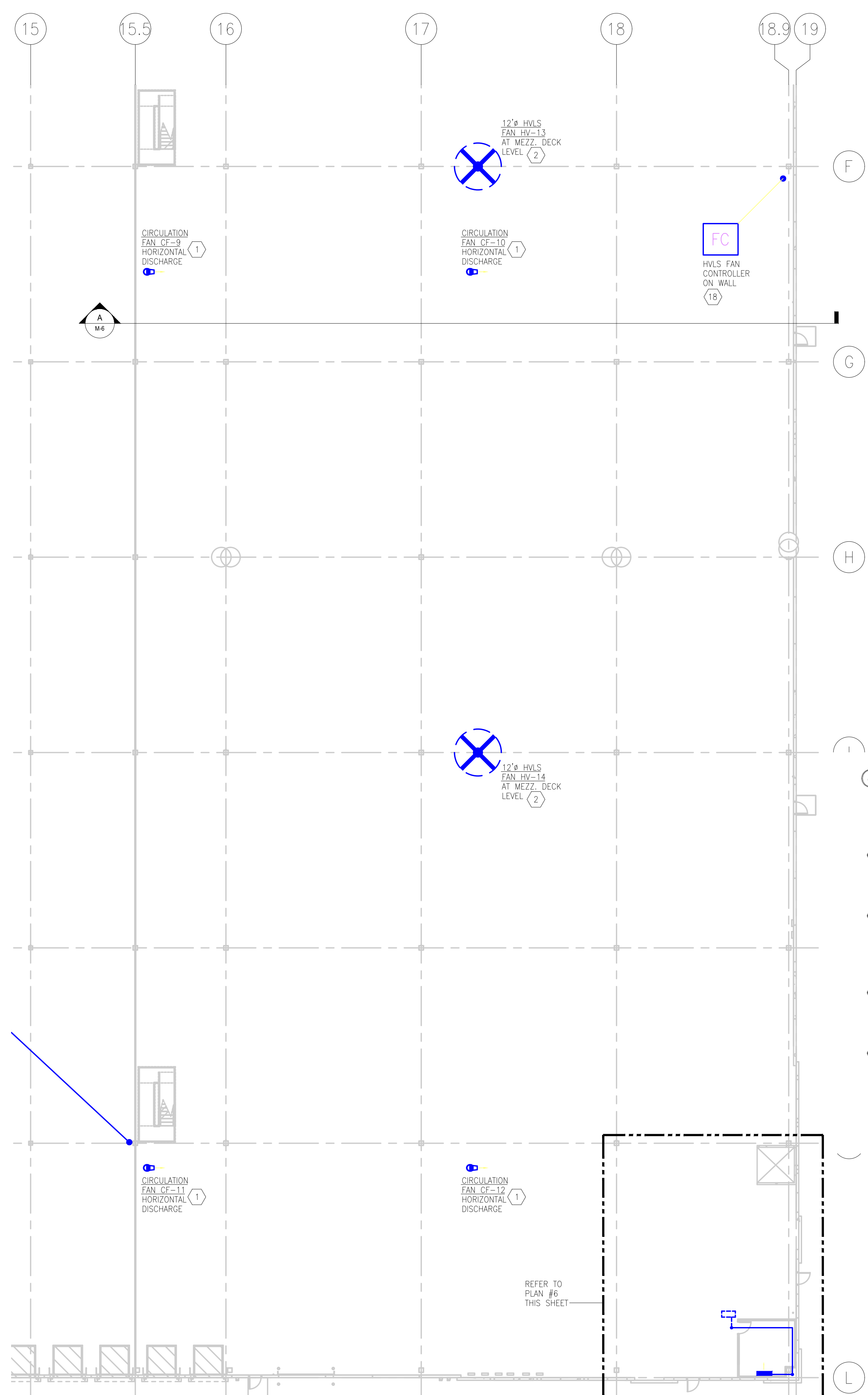
MODEL CONSTRUCTION THAT SHALL NOT BE USED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF PERFECTION GROUP. THE INFORMATION CONTAINED HEREIN IS FOR THE EXCLUSIVE USE OF THE CLIENT AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PERFECTION GROUP.

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PERFECTION GROUP

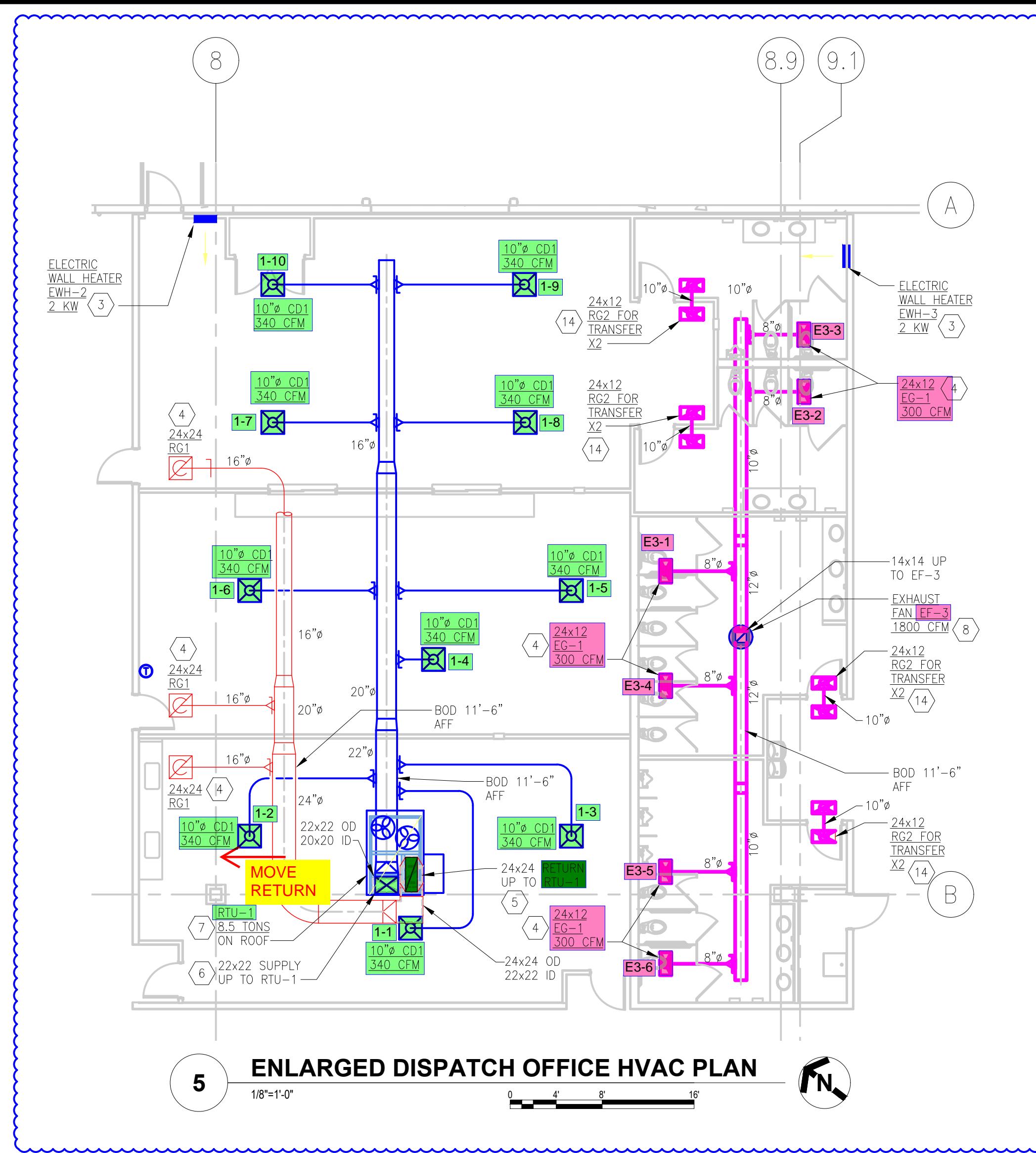
ENLARGED HVAC FLOOR PLAN
HVAC RENOVATIONS FOR:
PROJECT KEVLAR/BJs TI
180 KENMORE BLVD.
COMMERCIAL POINT, OHIO 43116

JOB NO.: 25028
SCALE: AS NOTED
DATE: 3-20-25
DRAWN BY: CKB
APPROVED BY: CSL
DRAWING NUMBER:
M-10
REVISION NO.: 1

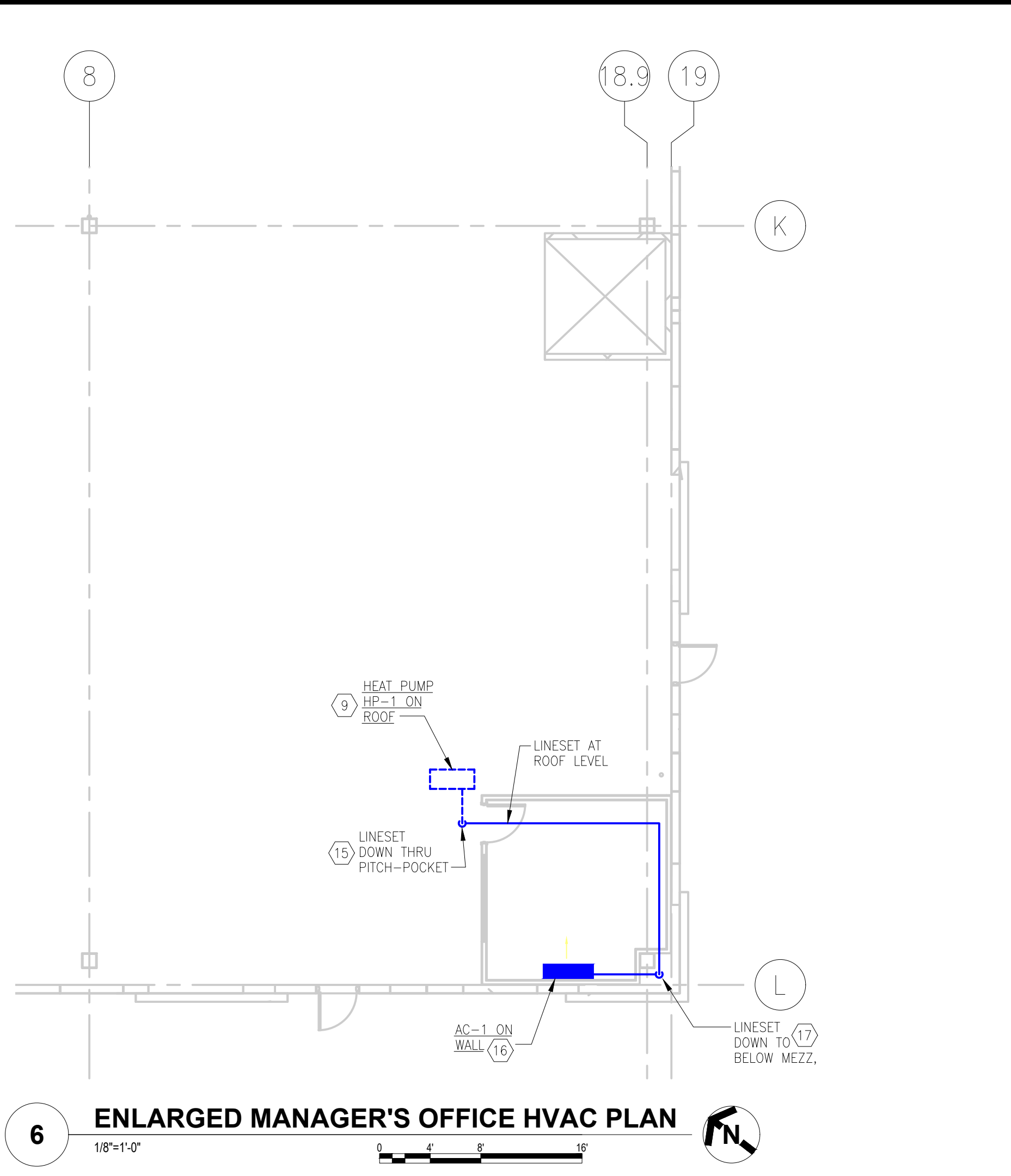
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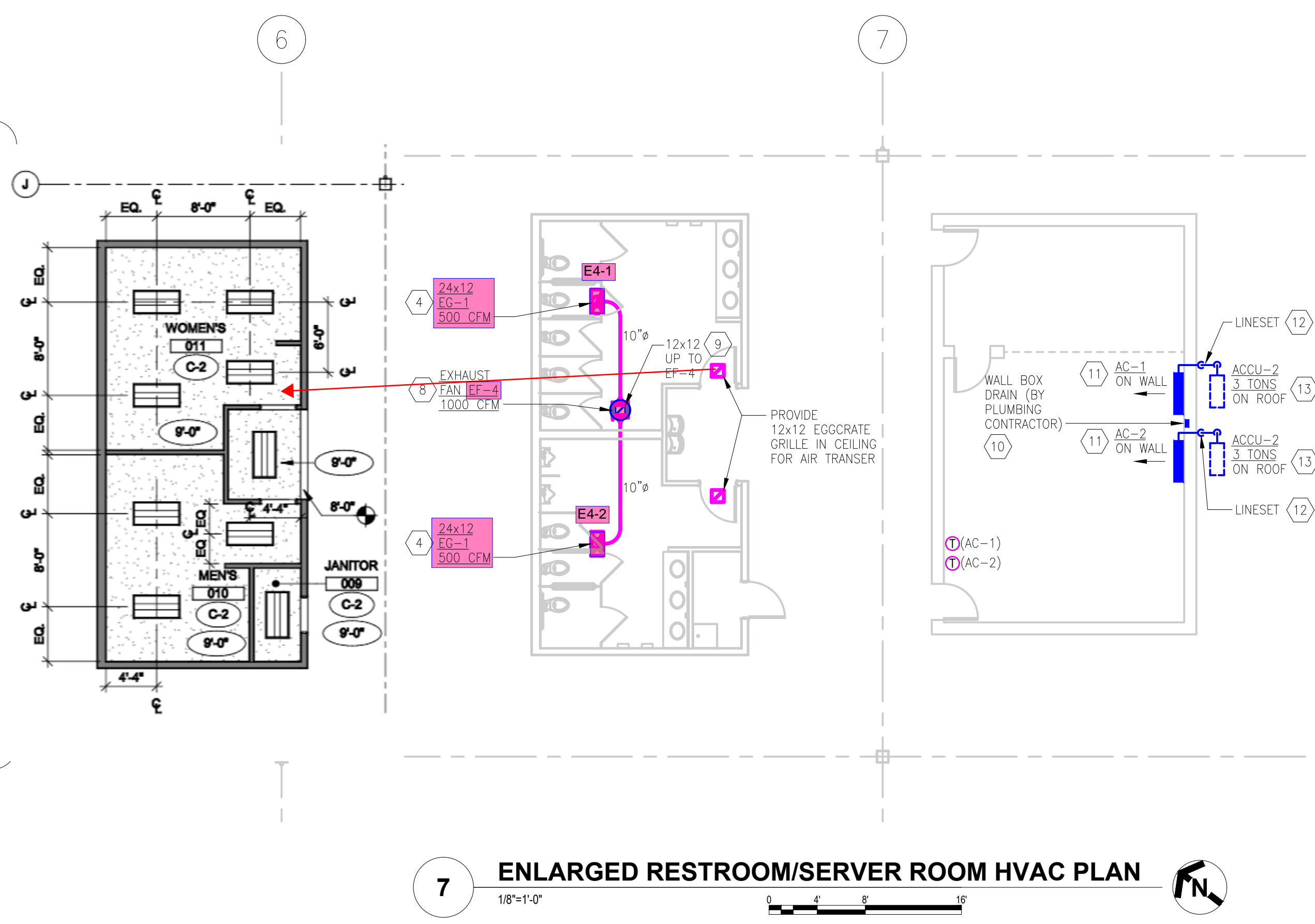
4 ENLARGED CIRCULATION FAN PLAN - BELOW MEZZANINE
1/8"=1'-0"



5 ENLARGED DISPATCH OFFICE HVAC PLAN
1/8"=1'-0"



6 ENLARGED MANAGER'S OFFICE HVAC PLAN
1/8"=1'-0"



7 ENLARGED RESTROOM/SERVER ROOM HVAC PLAN
1/8"=1'-0"

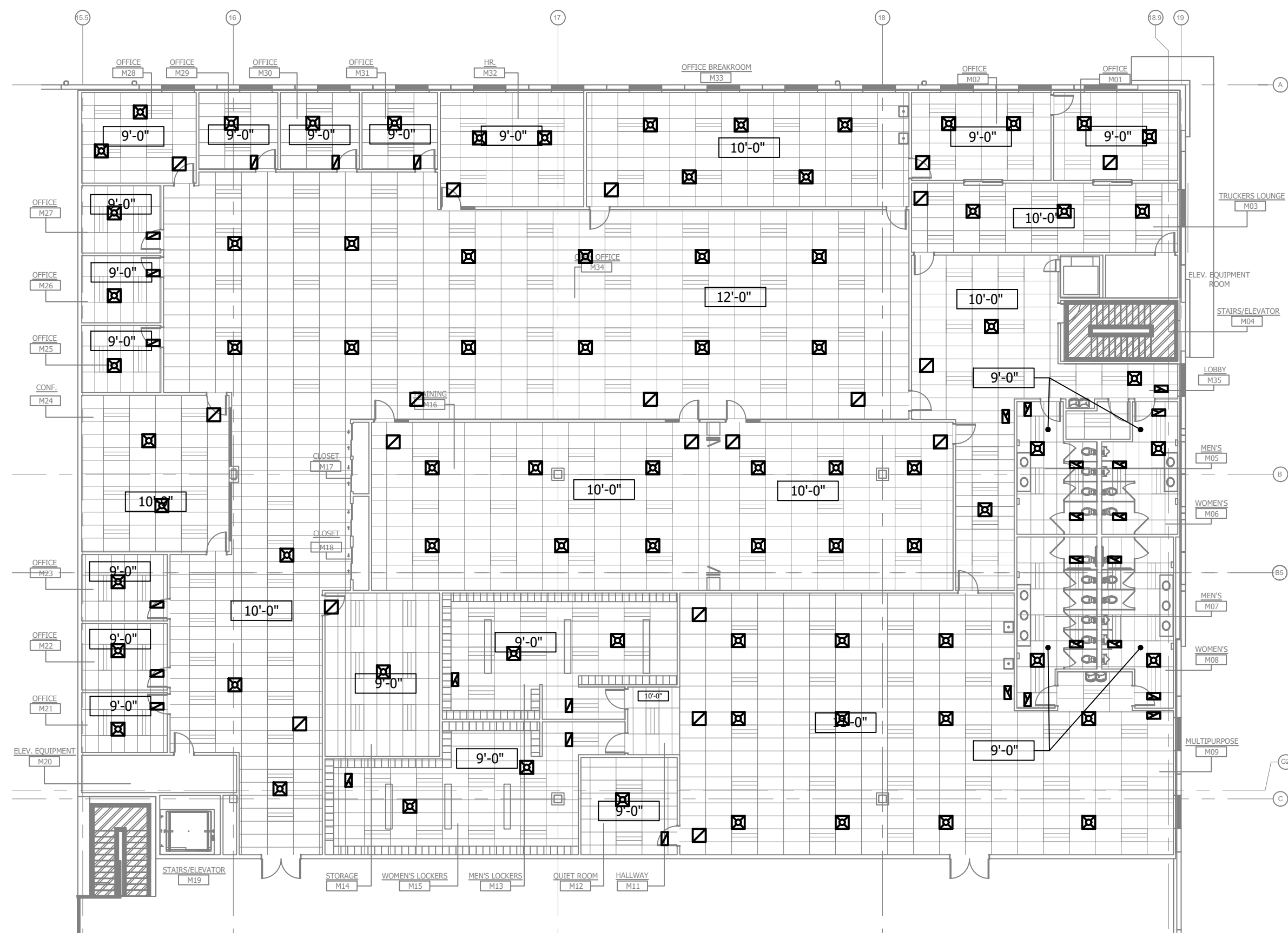
GENERAL NOTES

- A ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK TO BE INTERNALLY LINED (1" THICK). ALL VAV BOX DISCHARGE DUCTWORK SIZES SHOWN ARE OUTSIDE DIMENSION. FREE AREA WILL BE 2" SMALLER IN EACH DIRECTION.
- B ALL ROUND DUCTWORK TO UTILIZE WRAPPED INSULATION.
- C COORDINATE ALL EXHAUST FAN LOCATIONS, DUCT DROPS AND AIR DEVICES LOCATIONS WITH FIRE PROTECTION PIPING AND ESFR/SPRINKLER HEADS.
- D THERMOSTATS TO BE MOUNTED AT 60" AFF.

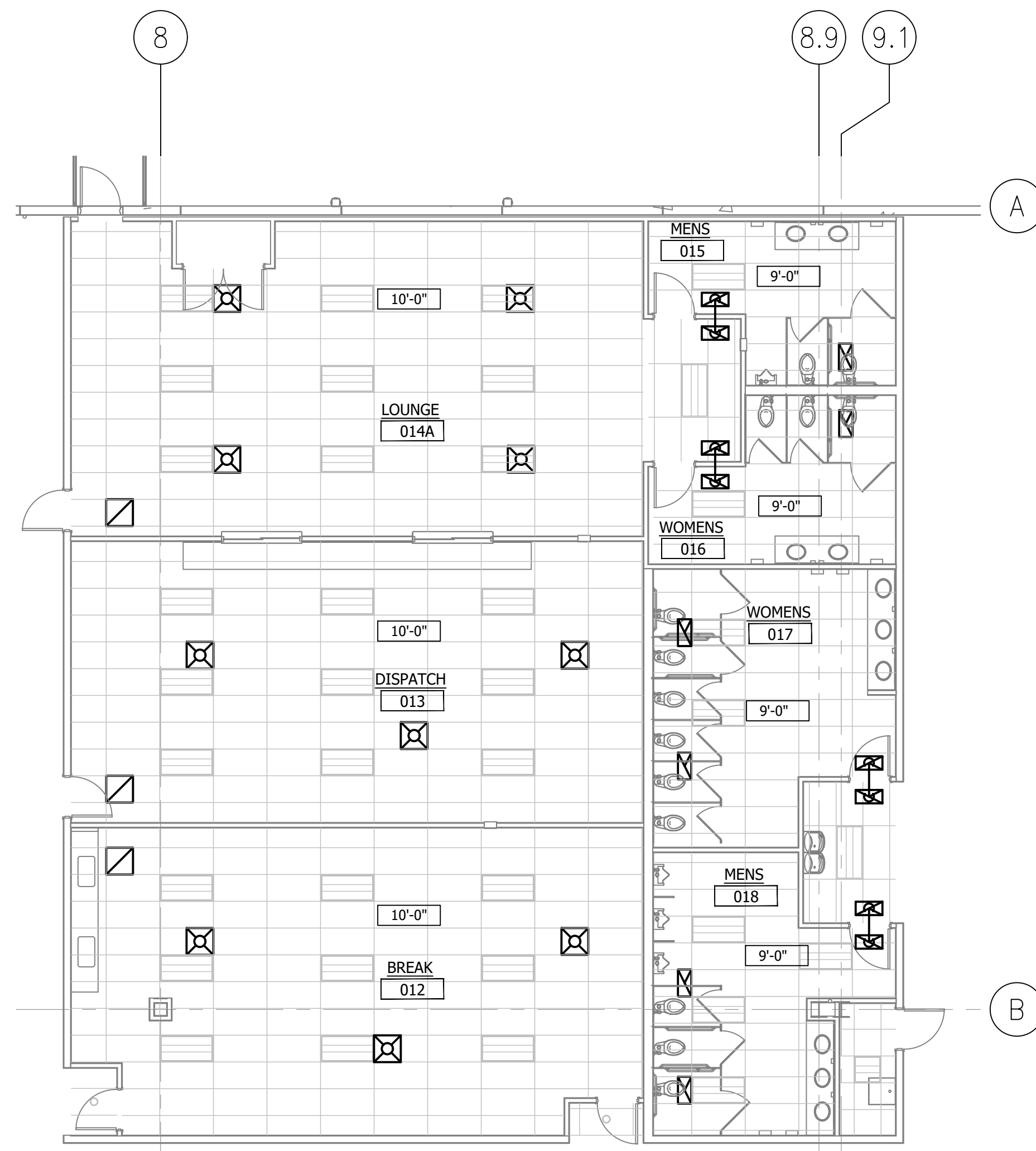
KEYNOTES

- 1 INSTALL FAN AT 30° DOWNWARD ANGLE TO PUSH AIR TOWARDS THE OUTSIDE WALL. SUPPORT FAN FROM MEZZ STRUCTURE PER MANUFACTURER'S INSTRUCTIONS. SEE SECTION 'A' ON SHEET M-13 FOR CLARITY. FANS TO BE CONTROLLED VIA THE BUILDING AUTOMATION SYSTEM (NO INDIVIDUAL CONTROLLERS).
- 2 COORDINATE FINAL LOCATION PRIOR TO BEGINNING WORK. FAN MUST BE INSTALLED TO ALLOW FOR MIN. 20'-0" CLEAR HEIGHT UNDER MEZZANINE.
- 3 MOUNT RECESSED INTO WALL.
- 4 PROVIDE PLENUM BOX ON TOP OF GRILLE FOR DUCT CONNECTION.
- 5 TRANSITION DUCT AS REQUIRED AT UNIT CONNECTION. RETURN DUCT TO UTILIZE 1" INTERNAL INSULATION. FOR FIRST (2) SECTIONS OF VERTICAL DUCT OFF UNIT CONNECTION.
- 6 TRANSITION DUCT AS REQUIRED AT UNIT CONNECTION. RECTANGULAR SUPPLY DUCT TO UTILIZE 1" INTERNAL INSULATION FOR VERTICAL DROP. ROUND HORIZONTAL SUPPLY DUCTS TO BE WRAPPED.
- 7 RTU ON ROOF CURB. SEE SHEETS M-12 AND M-13 FOR GAS PIPING AND INSTALLATION DETAILS FOR RTU. PROVIDE SMOKE DETECTOR IN RETURN DUCT NEAR UNIT. COORDINATE WITH ELECTRICAL CONTRACTOR.
- 8 EXHAUST FAN ON ROOF CURB. TRANSITION DUCT TO FAN CONNECTION. PROVIDE GRAVITY DAMPER TRAY AT FAN INLET.
- 9 MOUNT ON ROOF RAILS.
- 10 COORDINATE LOCATION WITH PLUMBING CONTRACTOR. ROUTE AC-1,2 CONDENSATE DRAINS TO WALL BOX. TERMINATE WITH INDIRECT CONNECTION AT WALL BOX.
- 11 MOUNT ON WALL 8'-0" AFF.
- 12 ROUTE BETWEEN ACCU AND AC UNIT AS REQUIRED. PENETRATE ROOM THRU WALL TO AC UNIT.
- 13 MOUNT ON ROOF RAILS. ROUTE LINESET AND POWER/CONTROL CABLE BETWEEN AC UNIT AND ACCU AS REQUIRED.
- 14 PROVIDE PLENUM BOX ON GRILLE FOR DUCT CONNECTION. ROUTE 10" TRANSFER DUCT BETWEEN GRILLES AS SHOWN.
- 15 FLASH PITCH POCKET TO ROOF. COORDINATE WITH ROOFER.
- 16 MOUNT AT 8'-0" MIN. MOUNT CONTROLLER ON WALL NEAR DOOR. ROUT CONDENSATE OUT THRU WALL NEAR GRADE. TERMINATE ON SPLASH BLOCK.
- 17 ROUTE TO AC-1 ABOVE CEILING.
- 18 COORDINATE FINAL LOCATION WITH OWNER.

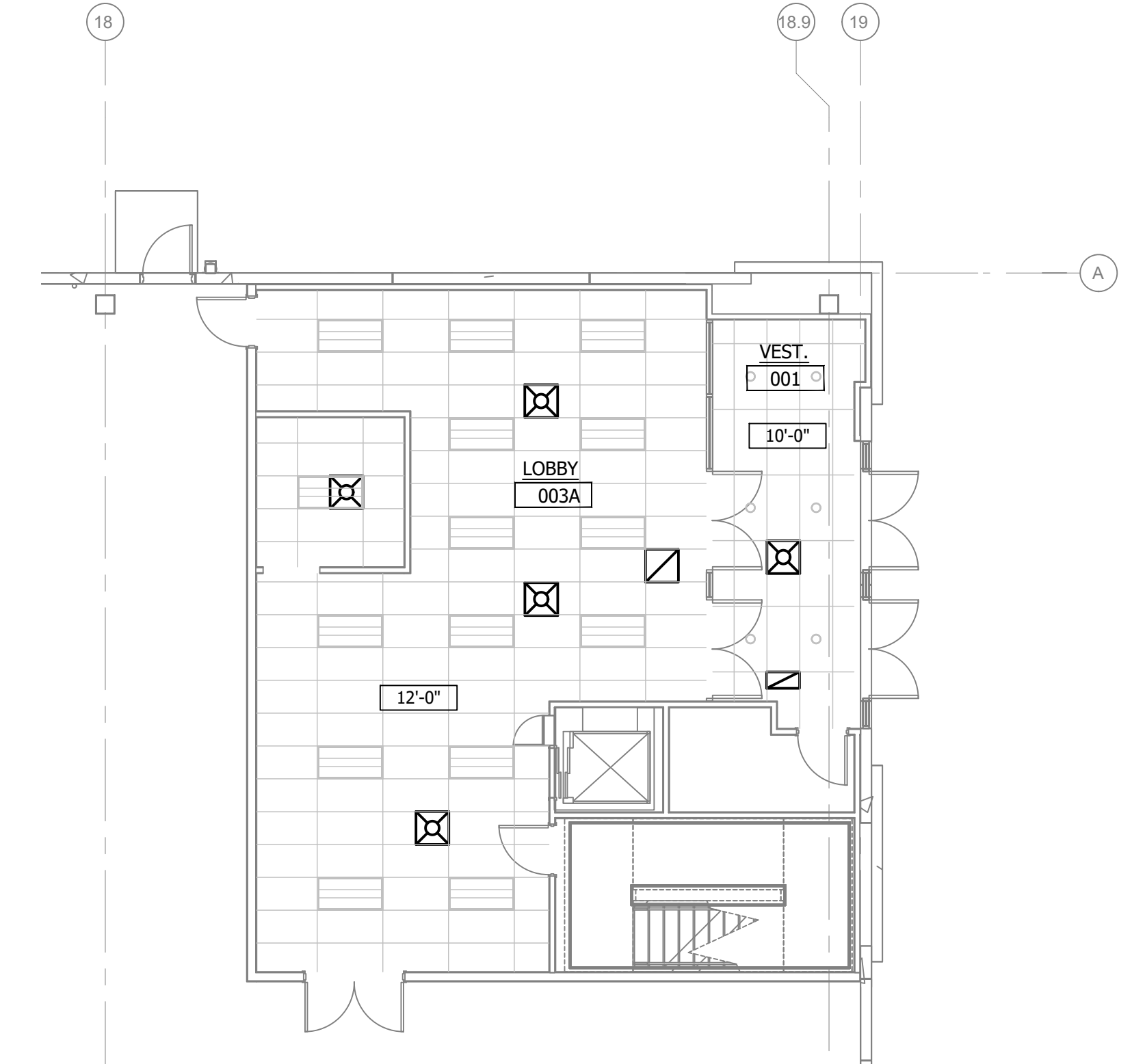
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<p>ESTD 1951</p> <p>PERFECTION GROUP</p>	
<p>ENLARGED HVAC FLOOR PLANS</p> <p>HVAC RENOVATIONS FOR: PROJECT KEVLAR/Bldg TI 180 KENMORE BLVD. COMMERCIAL POINT, OHIO 43116</p>	
<p>JOB NO.: 25028 SCALE: AS NOTED DATE: 3-20-25 DRAWN BY: CKB APPROVED BY: CSL DRAWING NUMBER: M-11 REVISION NO.: 1</p>	



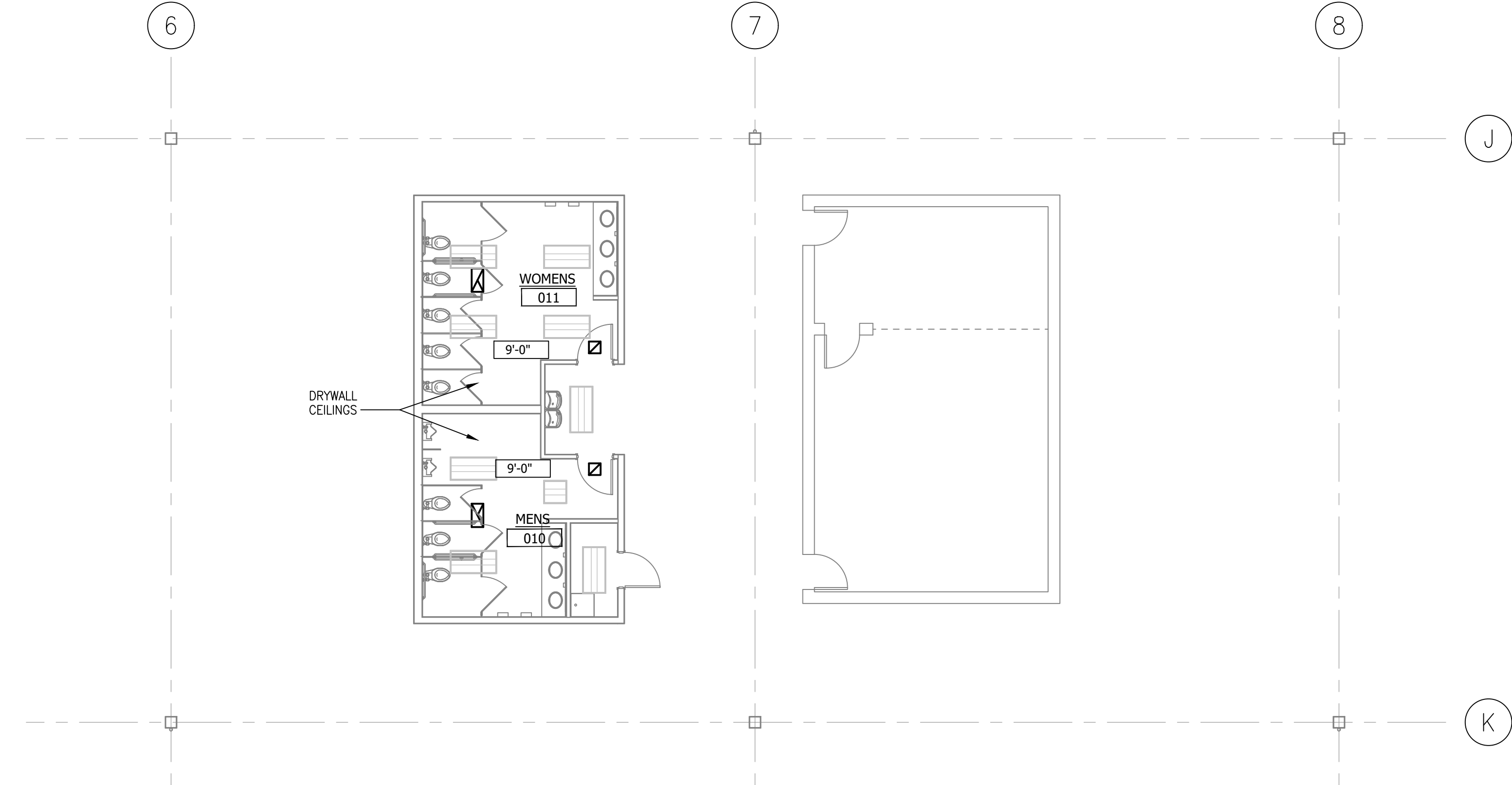
11 MEZZANINE OFFICE CEILING AND ROOM NUMBER PLAN
1/16"=1'-0"



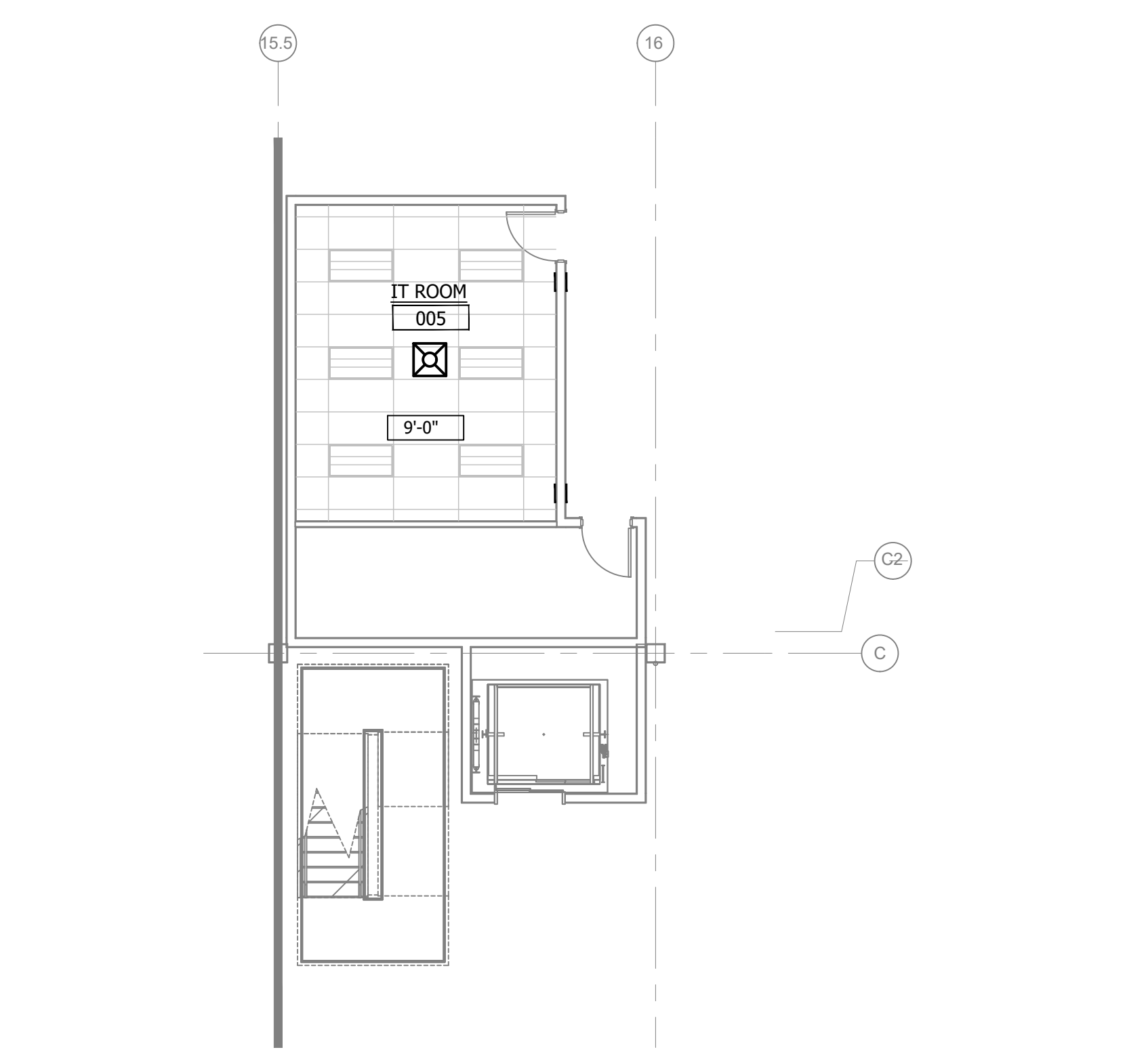
12 DISPATCH OFFICE CEILING AND ROOM NUMBER PLAN
1/8"=1'-0"



13 1ST FLOOR ENTRY CEILING AND ROOM NUMBER PLAN
1/8"=1'-0"



15 RESTROOM CEILING AND ROOM NUMBER PLAN
1/8"=1'-0"



13 1ST FLOOR ENTRY CEILING AND ROOM NUMBER PLAN
1/8"=1'-0"

DATE	BY	ISSUE/REVISION
3-21-25	CKB	PERMIT SET



NOTE: CONSULT THE ORIGINAL SET OF PLANS FOR ALL DIMENSIONS AND CONDITIONS. ANY CHANGES TO THE ORIGINAL SET OF PLANS SHALL BE APPROVED BY THE ARCHITECT AND THE ENGINEER OF RECORD. ANY CHANGES TO THE ORIGINAL SET OF PLANS SHALL BE APPROVED BY THE ARCHITECT AND THE ENGINEER OF RECORD. ANY CHANGES TO THE ORIGINAL SET OF PLANS SHALL BE APPROVED BY THE ARCHITECT AND THE ENGINEER OF RECORD.



CEILING AND ROOM NUMBER PLANS
HVAC RENOVATIONS FOR:
PROJECT KEVLAR/BJs TI
180 KENMORE BLVD.
COMMERCIAL POINT, OHIO 43116

JOB NO.: 25028
SCALE: AS NOTED
DATE: 3-20-25
DRAWN BY: CKB
APPROVED BY: CSL
DRAWING NUMBER:
M-16
REVISION NO.: 0

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