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Project Number: 022-2545

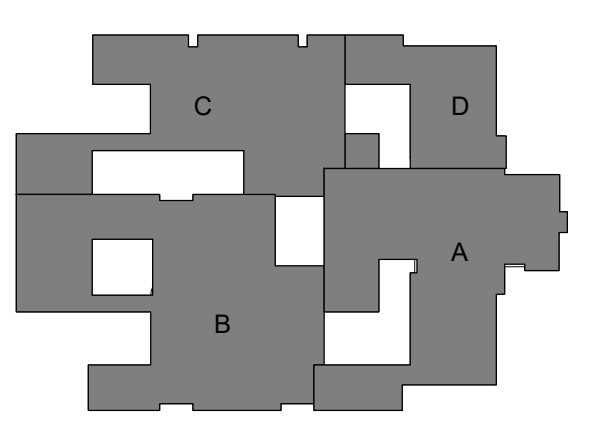


ISSUE FOR CONSTRUCTION

No.	Date	Description

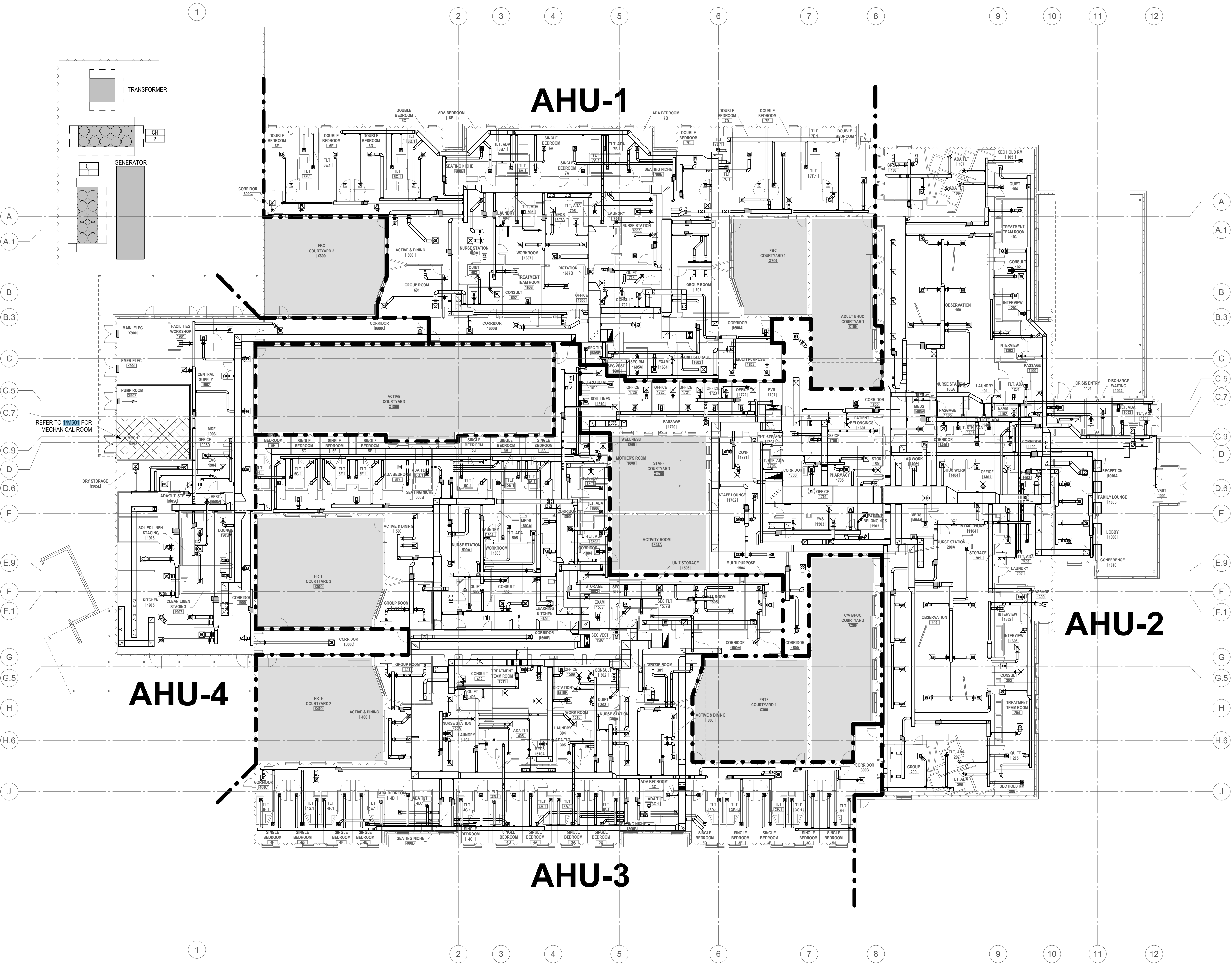
Cabarrus County  
Regional  
Behavioral Health  
Center

DHSR Number: MHL-5188



Bid Package 3

**GENERAL NOTES - MECH**  
A. REFER TO GENERAL NOTES ON M001 FOR ADDITIONAL INFORMATION.



**1 MECHANICAL FLOOR PLAN OVERALL - HVAC**  
1/16" = 1'-0"

**LEVEL 1 - HVAC**

DATE JULY 12, 2024 SHEET  
SCALE As indicated  
DRAWN RD / BES  
PROJ. NO. 2022-A002.01  
**M200**

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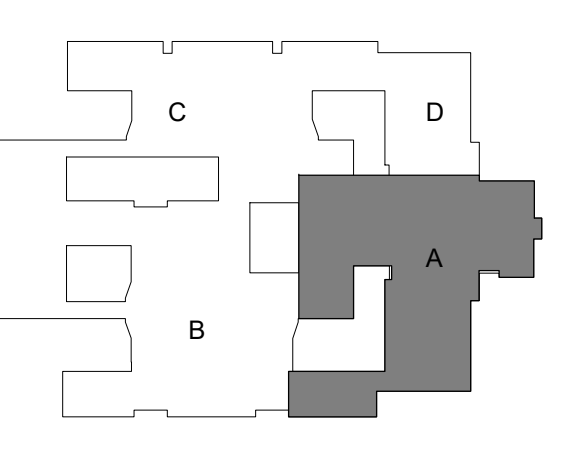


ISSUE FOR CONSTRUCTION

No.	Date	Description
1	09/05/2024	BP3 Addendum 2
2	01/17/2025	BP3 Bulletin 2
3	03/28/2025	BP3 Bulletin 4

Cabarrus County Regional Behavioral Health Center

DHSR Number: MHL-5188



Bid Package 3

LEVEL 1 - AREA A - HVAC

DATE: JULY 12, 2024 SHEET  
SCALE: As Indicated  
DRAWN: RD / BES  
PROJ. NO.: 2022-2002.01  
**M201A**

### GENERAL NOTES - MECH

A. REFER TO GENERAL NOTES ON **M001** FOR ADDITIONAL INFORMATION.

### SECURITY DIFFUSER / GRILLE INFO

REFER TO ARCHITECTURAL RISK LEVEL PLAN FOR ROOM SECURITY LEVELS.  
REFER TO AIR DEVICE SCHEDULE FOR DIFFUSER/GRILLE SPECIFICATION INFORMATION.  
SECURITY LEVEL 1: STANDARD PERFORATED CEILING DIFFUSERS / GRILLES (S2-5, R2-5, E2-5)  
SECURITY LEVEL 2: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)  
SECURITY LEVEL 3: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)  
SECURITY LEVEL 4: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)  
SECURITY LEVEL 5: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)

### NOTES BY SYMBOL "□" "◇" "△":

- MH01 EXHAUST DUCT UP TO FLOOR ABOVE. REFER TO **M023** FOR CONTINUATION.
- MH02 SUPPLY DUCT DOWN FROM FLOOR ABOVE. REFER TO **M023** FOR CONTINUATION.
- MH03 RETURN DUCT UP TO FLOOR ABOVE. REFER TO **M023** FOR CONTINUATION.
- MH09 PROVIDE AND INSTALL LINT TRAP COMPARABLE TO CONTINENTAL FAN LT100 ABOVE CEILING PER MANUFACTURERS INSTRUCTIONS. ENSURE ADEQUATE ACCESS FROM BELOW IN ADJACENT ROOM AND LABEL ACCESS ON CEILING.



# 1 MECHANICAL FLOOR PLAN - AREA A - HVAC

1/8" = 1'-0"

3/26/2025 9:47:18 AM



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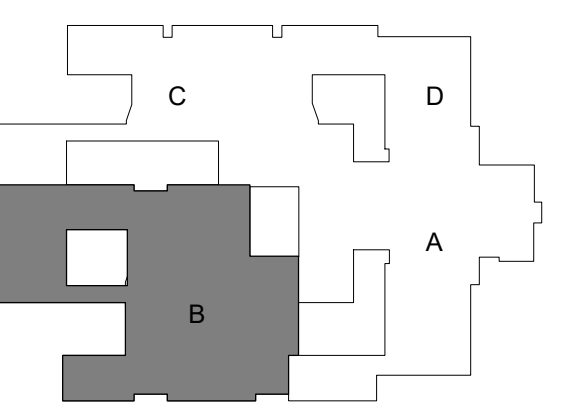


### ISSUE FOR CONSTRUCTION

No.	Date	Description
1	09/05/2024	BP3 Addendum 2
2	03/28/2025	BP3 Bulletin 4

## Cabarrus County Regional Behavioral Health Center

DHSR Number: MHL-5188



Bid Package 3

## LEVEL 1 - AREA B - HVAC

DATE: JULY 12, 2024 SHEET  
 SCALE: As Indicated  
 DRAWN: RD / BES  
 PROJ. NO.: 2022-A002.01

### GENERAL NOTES - MECH

A. REFER TO GENERAL NOTES ON M001 FOR ADDITIONAL INFORMATION.

### SECURITY DIFFUSER / GRILLE INFO

REFER TO ARCHITECTURAL RISK LEVEL PLAN FOR ROOM SECURITY LEVELS.

REFER TO AIR DEVICE SCHEDULE FOR DIFFUSER/GRILLE SPECIFICATION INFORMATION.

SECURITY LEVEL 1: STANDARD PERFORATED CEILING DIFFUSERS / GRILLES (S2-5, R2-5, E2-5)

SECURITY LEVEL 2: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)

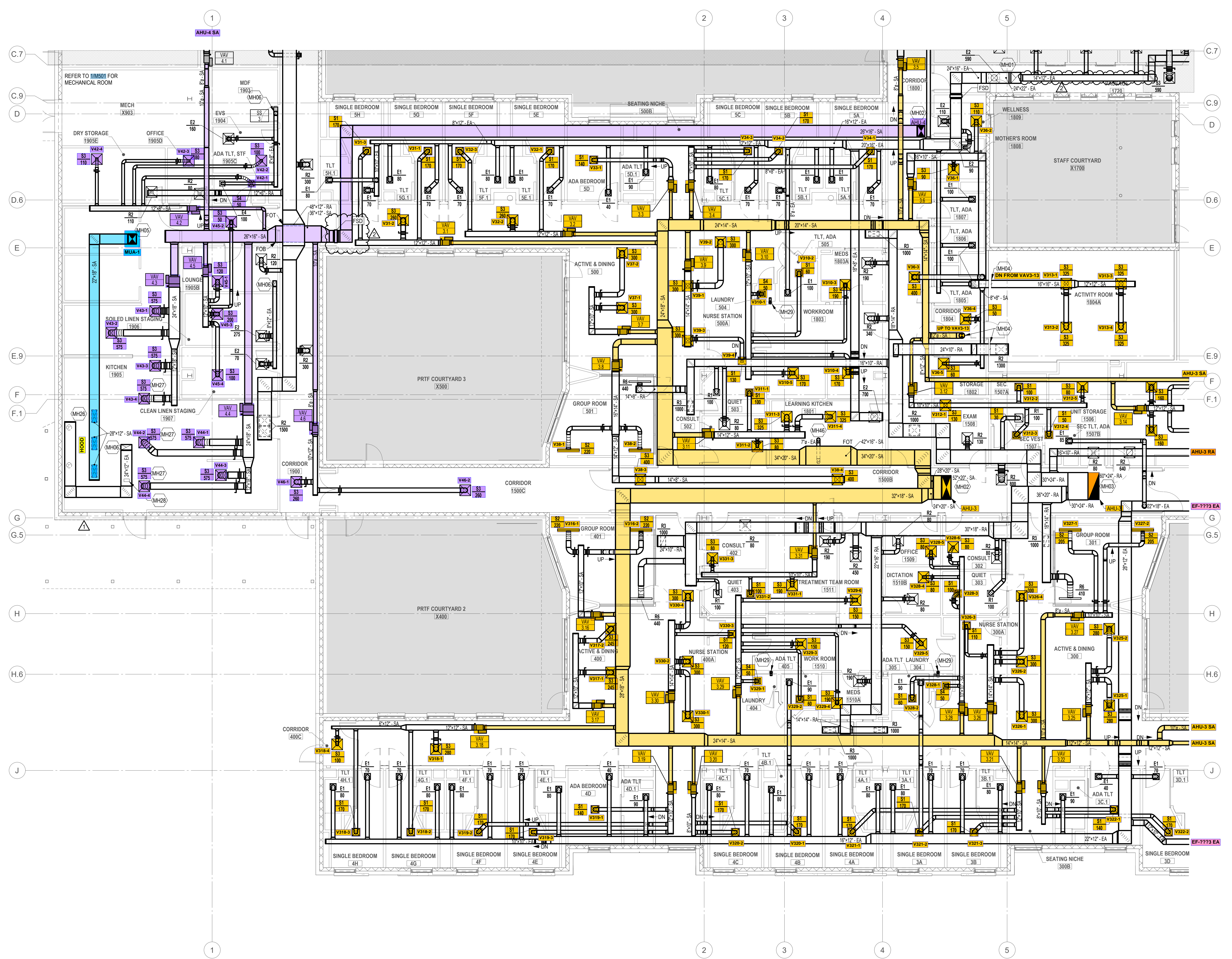
SECURITY LEVEL 3: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)

SECURITY LEVEL 4: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)

SECURITY LEVEL 5: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)

### NOTES BY SYMBOL "□" "◇" "△":

- MH01 EXHAUST DUCT UP TO FLOOR ABOVE. REFER TO M002.3 FOR CONTINUATION.
- MH02 SUPPLY DUCT DOWN FROM FLOOR ABOVE. REFER TO M002.3 FOR CONTINUATION.
- MH03 RETURN DUCT UP TO FLOOR ABOVE. REFER TO M002.3 FOR CONTINUATION.
- MH04 DUCT ENTERS EXITS PENTHOUSE TO SERVE ACTIVITY ROOM 1804A.
- MH05 SUPPLY DUCT DOWN FROM FLOOR ABOVE. REFER TO M001 FOR CONTINUATION.
- MH06 EXHAUST DUCT UP TO FLOOR ABOVE. REFER TO M001 FOR CONTINUATION.
- MH26 KITCHEN HOOD SHALL BE PROVIDED BY THE KITCHEN VENDOR. PROVIDE SUPPLY/EXHAUST DUCT DROPS TO FROM HOOD SIZES SHOWN. REFER TO KITCHEN VENDOR DRAWINGS FOR ADDITIONAL INFORMATION AND DETAILS.
- MH27 AIR DEVICE TO BE PROVIDED WITH THREE-WAY DISCHARGE. ORIENTATE THE DEVICE TO AVOID DISCHARGING TOWARD THE KITCHEN HOOD.
- MH28 PROVIDE GREASE DUCT CLEANOUT PER IMC 506.3.8.
- MH29 PROVIDE AND INSTALL LINT TRAP COMPARABLE TO CONTINENTAL FAN LT100 ABOVE CEILING PER MANUFACTURERS INSTRUCTIONS. ENSURE ADEQUATE ACCESS FROM BELOW IN ADJACENT ROOM AND LABEL ACCESS ON CEILING.
- MH46 7" EXHAUST DUCT TO CONNECT FROM KITCHEN HOOD BELOW AND TAKE UP THROUGH ROOF AND TERMINATED FOLLOWING ALL MANUFACTURERS INSTRUCTIONS.



# MECHANICAL FLOOR PLAN - AREA B - HVAC

1/8" = 1'-0"

3/28/2025 9:49:32 AM

### GENERAL NOTES - MECH

A. REFER TO GENERAL NOTES ON **M001** FOR ADDITIONAL INFORMATION.

### SECURITY DIFFUSER / GRILLE INFO

REFER TO ARCHITECTURAL RISK LEVEL PLAN FOR ROOM SECURITY LEVELS.

REFER TO AIR DEVICE SCHEDULE FOR DIFFUSER/GRILLE SPECIFICATION INFORMATION.

SECURITY LEVEL 1: STANDARD PERFORATED CEILING DIFFUSERS / GRILLES (S2-5, R2-5, E2-5)

SECURITY LEVEL 2: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)

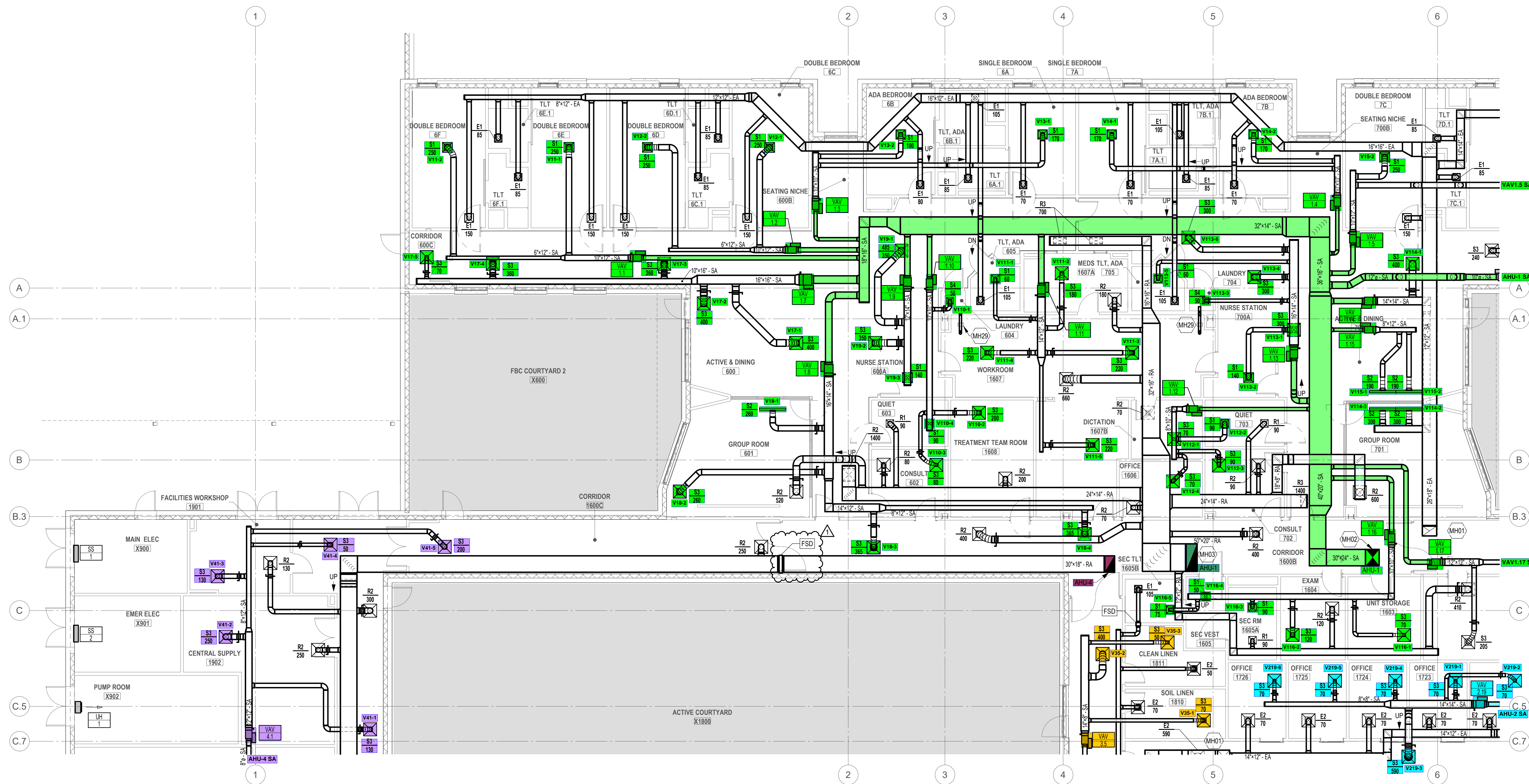
SECURITY LEVEL 3: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)

SECURITY LEVEL 4: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)

SECURITY LEVEL 5: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)

### NOTES BY SYMBOL "□" "◇" "△":

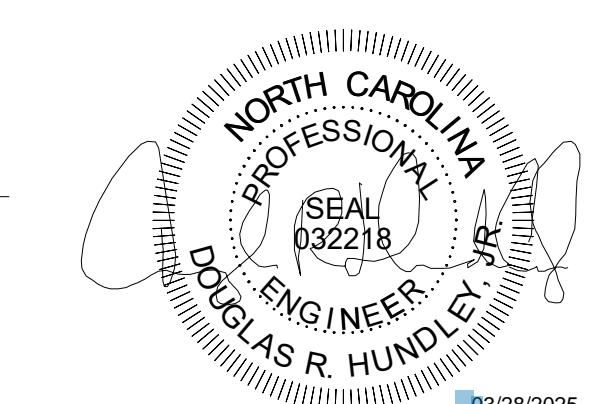
- MH01 EXHAUST DUCT UP TO FLOOR ABOVE. REFER TO **M202B** FOR CONTINUATION.
- MH02 SUPPLY DUCT DOWN FROM FLOOR ABOVE. REFER TO **M202B** FOR CONTINUATION.
- MH03 RETURN DUCT UP TO FLOOR ABOVE. REFER TO **M202B** FOR CONTINUATION.
- MH09 PROVIDE AND INSTALL LINT TRAP COMPARABLE TO CONTINENTAL FAN LT100 ABOVE CEILING PER MANUFACTURERS INSTRUCTIONS. ENSURE ADEQUATE ACCESS FROM BELOW IN ADJACENT ROOM AND LABEL ACCESS ON CEILING.



human eXperience

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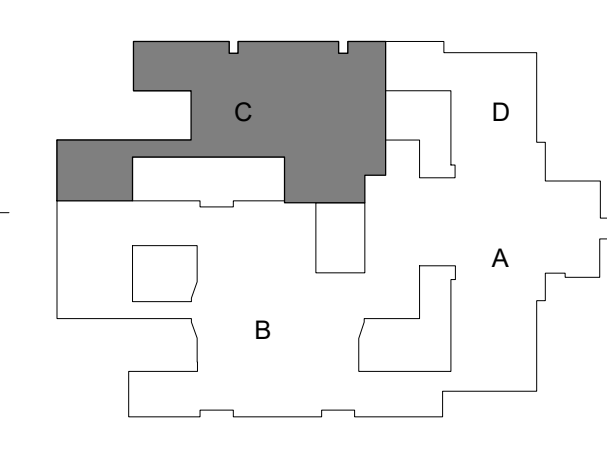


ISSUE FOR CONSTRUCTION

No.	Date	Description
1	03/28/2025	BP3 Bulletin 4

Cabarrus County  
Regional  
Behavioral Health  
Center

DHSR Number: MHL-5188



Bid Package 3

**LEVEL 1 -  
AREA C -  
HVAC**

DATE JULY 12, 2024 SHEET  
SCALE As Indicated  
DRAWN RD / BES  
PROJ. NO. 2022-A002.01

**M201C**

**1 MECHANICAL FLOOR PLAN - AREA C - HVAC**  
1/8" = 1'-0"

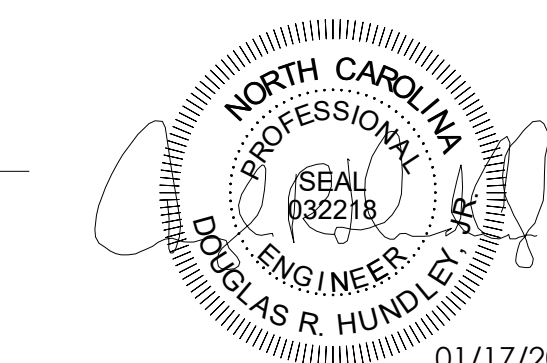
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human eXperience

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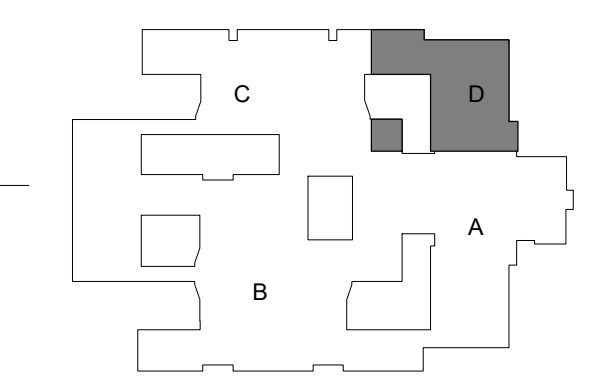
01/17/2025

ISSUE FOR CONSTRUCTION

No.	Date	Description
2	09/05/2024	BP3 Addendum 2
3	01/17/2025	BP3 Bulletin 2

Cabarrus County  
Regional  
Behavioral Health  
Center

DHSR Number: MHL-5188



Bid Package 3

LEVEL 1 -  
AREA D -  
HVAC

DATE July 12, 2024 SHEET  
SCALE As Indicated  
DRAWN RY/BS **M201D**  
PROJ. NO. 2022-A002.01



1 MECHANICAL FLOOR PLAN - AREA D - HVAC  
1/8" = 1'-0"

**GENERAL NOTES - MECH**  
A. REFER TO GENERAL NOTES ON M001 FOR ADDITIONAL INFORMATION.

**SECURITY DIFFUSER / GRILLE INFO**  
REFER TO ARCHITECTURAL RISK LEVEL PLAN FOR ROOM SECURITY LEVELS.  
REFER TO AIR DEVICE SCHEDULE FOR DIFFUSER/GRILLE SPECIFICATION INFORMATION.  
SECURITY LEVEL 1: STANDARD PERFORATED CEILING DIFFUSERS / GRILLES (S2-S5, R2-S5, E2-S5)  
SECURITY LEVEL 2: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)  
SECURITY LEVEL 3: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)  
SECURITY LEVEL 4: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)  
SECURITY LEVEL 5: SECURITY DIFFUSERS / GRILLES (S1, R1, E1)

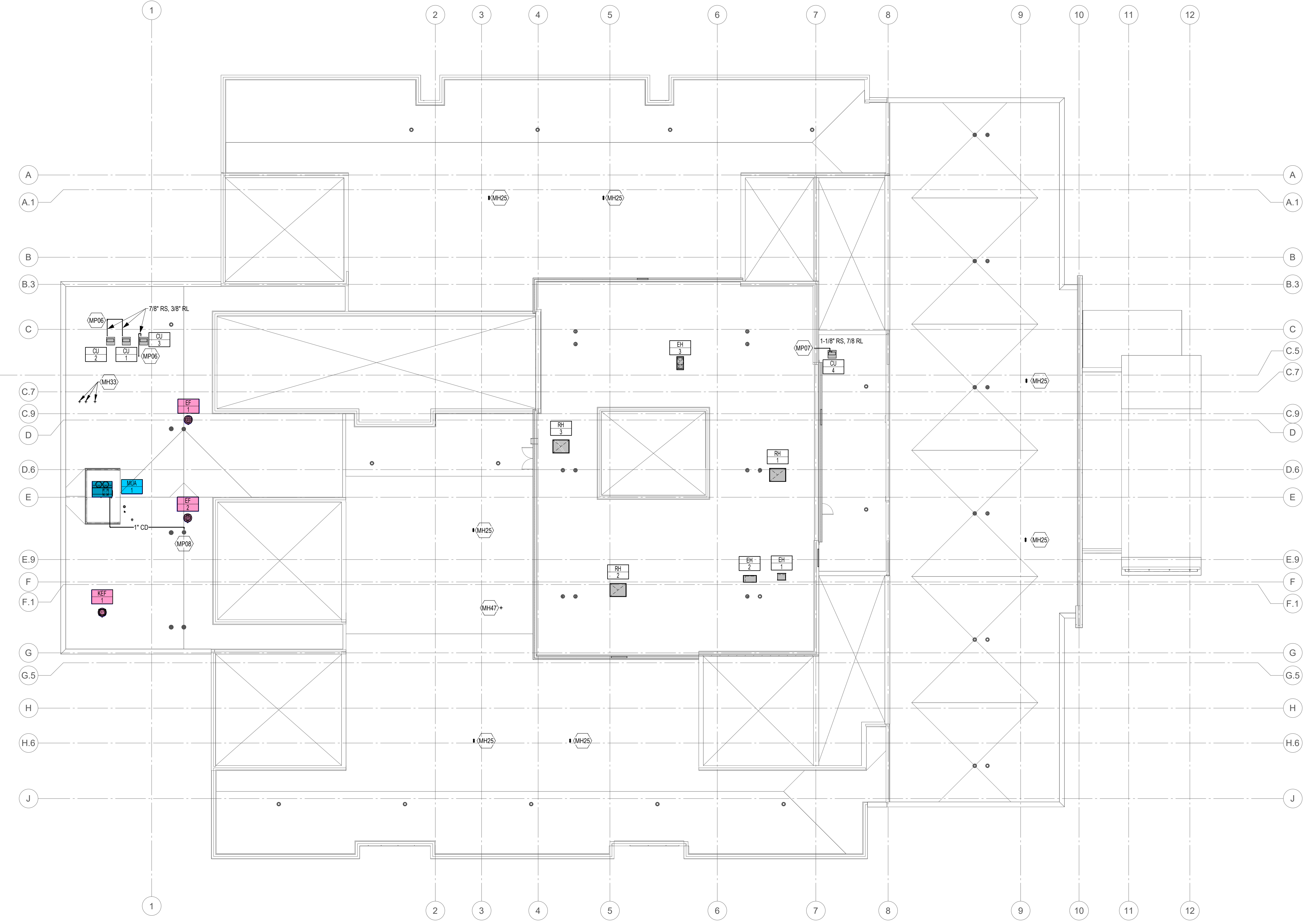
**NOTES BY SYMBOL "○" "◇" "△":**  
MH2 SUPPLY DUCT DOWN FROM FLOOR ABOVE. REFER TO M002.3 FOR CONTINUATION.  
MH3 RETURN DUCT UP TO FLOOR ABOVE. REFER TO M002.3 FOR CONTINUATION.  
MH29 PROVIDE AND INSTALL LIFT TRAP COMPARABLE TO CONTINENTAL FAN LT100 ABOVE CEILING PER MANUFACTURERS INSTRUCTIONS. ENSURE ADEQUATE ACCESS FROM BELOW IN ADJACENT ROOM AND LABEL ACCESS ON CEILING.

**GENERAL NOTES - MECH**

A. REFER TO GENERAL NOTES ON **M001** FOR ADDITIONAL INFORMATION.

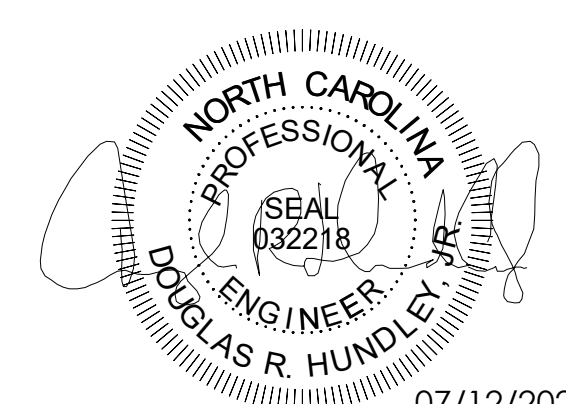
**NOTES BY SYMBOL "□":**

- MH25 LAUNDRY EXHAUST UP FROM BELOW. REFER TO **315M00** FOR REFERENCE DETAIL.
- MH33 6" FLUE UP FROM BELOW. REFER TO **315M01** FOR ADDITIONAL INFORMATION.
- MH47 LEARNING KITCHEN EXHAUST UP FROM BELOW. REFER TO **M201B** FOR CONTINUATION.
- MP06 7/8" SUCTION AND 3/8" LIQUID REFRIGERANT PIPING FROM INDOOR UNIT UP THROUGH ROOF. REFER TO **315M00** FOR ADDITIONAL INFORMATION.
- MP07 1-1/8" SUCTION AND 7/8" LIQUID REFRIGERANT PIPING FROM INDOOR UNIT IN PENTHOUSE THROUGH EXTERIOR WALL. REFER TO **315M00** FOR ADDITIONAL INFORMATION.
- MP08 ROUTE CONDENSATE TO OPEN RECEPTACLE AT THIS LOCATION. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION.



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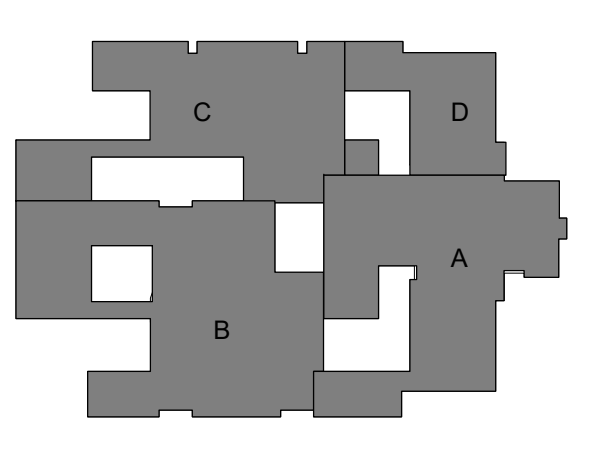
07/12/2024

ISSUE FOR CONSTRUCTION

No.	Date	Description

Cabarrus County Regional Behavioral Health Center

DHSR Number: MHL-5188



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**ROOF PLAN - MECHANICAL**

DATE: JULY 12, 2024 SHEET: **M401**  
SCALE: As Indicated  
DRAWN: RD / BES  
PROJ. NO.: 2022-2002-01

**1 MECHANICAL ROOF PLAN - HVAC**  
1/16" = 1'-0"

7/10/2024 4:43:40 PM



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09/05/2024

ISSUE FOR CONSTRUCTION

Table with 3 columns: No., Date, and Description. Row 1: 2, 09/05/2024, BP3 Addendum 2.

Cabarrus County Regional Behavioral Health Center

DHSR Number: MHL-5188

Bid Package 3

PENTHOUSE PLAN - MECHANICAL

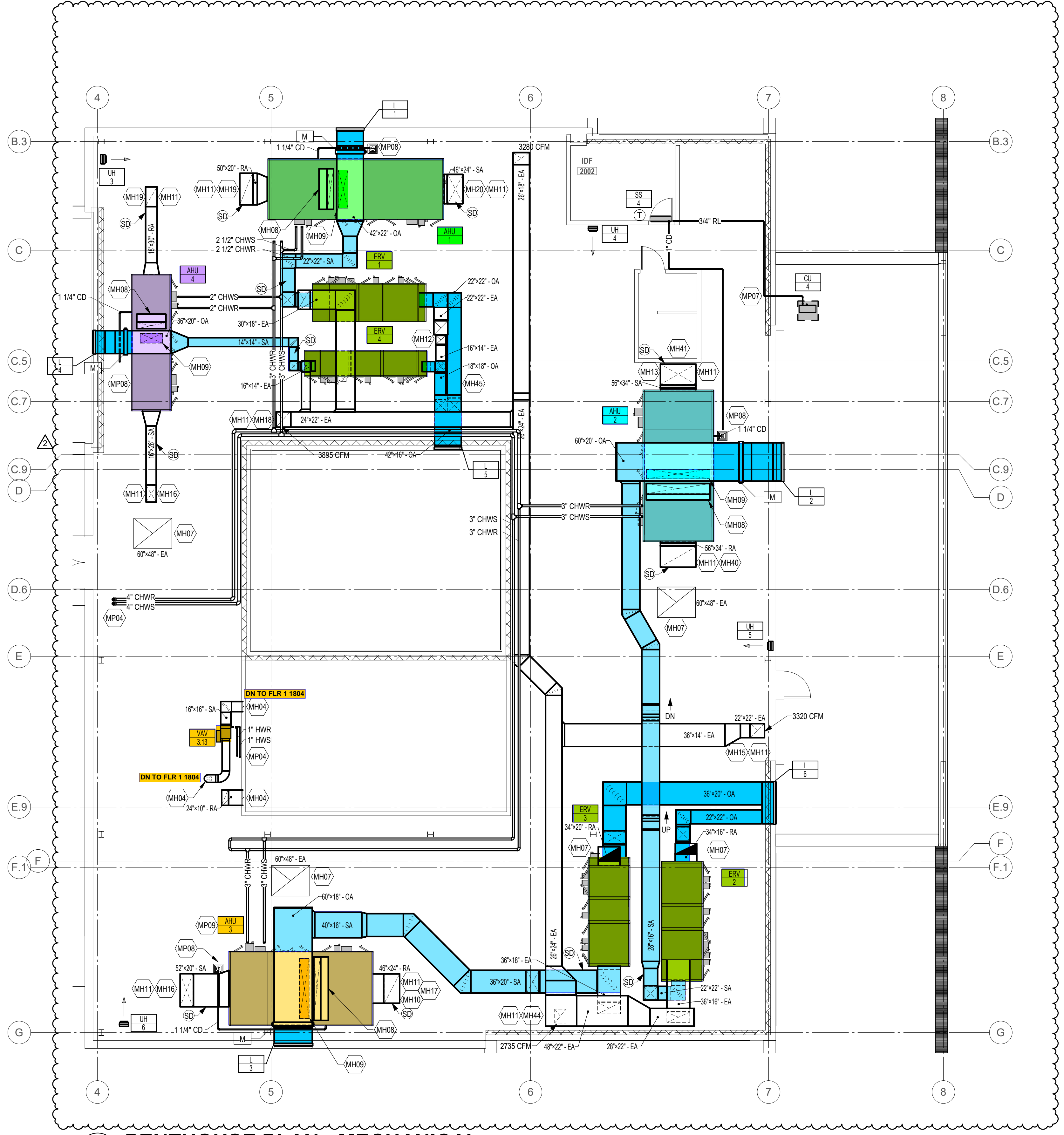
DATE: JULY 12, 2024 SHEET: M202.3

GENERAL NOTES - MECH

A. REFER TO GENERAL NOTES ON M000 FOR ADDITIONAL INFORMATION.

NOTES BY SYMBOL " " "

- MH04 DUCT ENTERS/EXITS PENTHOUSE TO SERVE ACTIVITY ROOM 1804A.
MH07 EXHAUST DUCT UP TO RELIEF HOOD ABOVE. REFER TO M000 FOR CONTINUATION.
MH08 EXTEND FULL SIZE EXHAUST DUCT UP 1' AND ELBOW 1'-6" OVER TO PROVIDE PATH FOR RELIEF AIR DURING ECONOMIZING MODE.
MH09 EXTEND FULL SIZE DUCT UP FROM OUTDOOR AIR INTAKE TO DUCT ABOVE.
MH10 RETURN DUCT TRANSITIONS FROM 46" X 24" TO 60" X 24" IN VERTICAL TRANSITION BEFORE FLOOR PENETRATION.
MH11 PROVIDE FIRE AND SMOKE DAMPER AT FLOOR PENETRATION. ENSURE DAMPER ACTUATOR IS ACCESSIBLE FROM PENTHOUSE.
MH12 JOIN BOTH EXHAUST DUCTS IN VERTICAL. TAKE UP AND CONNECT INTO SHARED RELIEF HOOD. REFER TO M000 FOR CONTINUATION.
MH13 SUPPLY DUCT DOWN TO FLOOR BELOW. REFER TO M200A FOR CONTINUATION.
MH15 EXHAUST DUCT UP FROM FLOOR BELOW. REFER TO M200A FOR CONTINUATION.
MH16 SUPPLY DUCT DOWN TO FLOOR BELOW. REFER TO M200B FOR CONTINUATION.
MH17 RETURN DUCT UP FROM FLOOR BELOW. REFER TO M200B FOR CONTINUATION.
MH18 EXHAUST DUCT UP FROM FLOOR BELOW. REFER TO M200B FOR CONTINUATION.
MH19 RETURN DUCT UP FROM FLOOR BELOW. REFER TO M200C FOR CONTINUATION.
MH20 SUPPLY DUCT DOWN TO FLOOR BELOW. REFER TO M200C FOR CONTINUATION.
MH40 RETURN DUCT TRANSITIONS FROM 56" X 34" TO 72" X 24" IN VERTICAL TRANSITION BEFORE FLOOR PENETRATION.
MH41 SUPPLY DUCT TRANSITIONS FROM 56" X 44" TO 66" X 20" IN VERTICAL TRANSITION BEFORE FLOOR PENETRATION.
MH44 22" X 18" EXHAUST DUCT UP FROM FLOOR BELOW TO CONNECT INTO BOTTOM OF ELBOW CONNECTOR HERE. NO TURNING VANES ON THIS ELBOW. REFER TO M000B FOR CONTINUATION.
MH45 42" X 16" DUCT TO TAP OFF OF LOUVER AND CONTINUE INTO PENTHOUSE UNTIL BOTH ERV OA CONNECTIONS TAP INTO BOTTOM AND THEN TERMINATE AND CAP.
MP04 PIPING DOWN TO/UP FROM FLOOR BELOW. REFER TO M000B FOR CONTINUATION.
MP07 1-1/8" SUCTION AND 7/8" LIQUID REFRIGERANT PIPING FROM INDOOR UNIT IN PENTHOUSE THROUGH EXTERIOR WALL. REFER TO ISMB001 FOR ADDITIONAL INFORMATION.
MP08 ROUTE CONDENSATE TO OPEN RECEPTACLE AT THIS LOCATION. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION.
MP09 PROVIDE 3-WAY CONTROL VALVE ON THIS AHU INSTEAD OF 2-WAY VALVE.



1 PENTHOUSE PLAN - MECHANICAL
1/8" = 1'-0"