

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes terms like A.F.F., A.F.L., A.V., AC, ACT, AD, ADL, ADJ, ADJCT, ADJN, AL, ALU, ANC, APC, APPROX, ARCH, AUTO, AV, AVF, AXFL, AXSNL, B, B.O., BD, BLDG, BLDK, BM, BOM, BRG, BRK, BSM, BT, CAB, CAT, C.C., CFM, CDM, CHNL, CIRC, CL, CLNG, CLR, CLM, COL, COM, COND, CONP, CONN, CONST.

Table with 2 columns: Abbreviation and Full Name. Includes terms like C (continued), D, DE, DIM, DIMN, DNG, DR, DTL, DWG, E, E.A., E.O., E.S., E.T., E.W., E.X., E.Y., E.Z., F, F.A., F.B., F.C., F.D., F.E., F.G., F.H., F.I., F.J., F.K., F.L., F.M., F.N., F.O., F.P., F.Q., F.R., F.S., F.T., F.U., F.V., F.W., F.X., F.Y., F.Z.

Table with 2 columns: Abbreviation and Full Name. Includes terms like G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z.

Table with 2 columns: Abbreviation and Full Name. Includes terms like AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ.

Table with 2 columns: Abbreviation and Full Name. Includes terms like BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ.

Table with 2 columns: Abbreviation and Full Name. Includes terms like CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ.

Table with 2 columns: Abbreviation and Full Name. Includes terms like DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ.

Table with 2 columns: Abbreviation and Full Name. Includes terms like EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ.

Table with 2 columns: Abbreviation and Full Name. Includes terms like FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ.

Table with 2 columns: Abbreviation and Full Name. Includes terms like GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ.

Table with 2 columns: Abbreviation and Full Name. Includes terms like HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ.

Table with 2 columns: Abbreviation and Full Name. Includes terms like IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ.

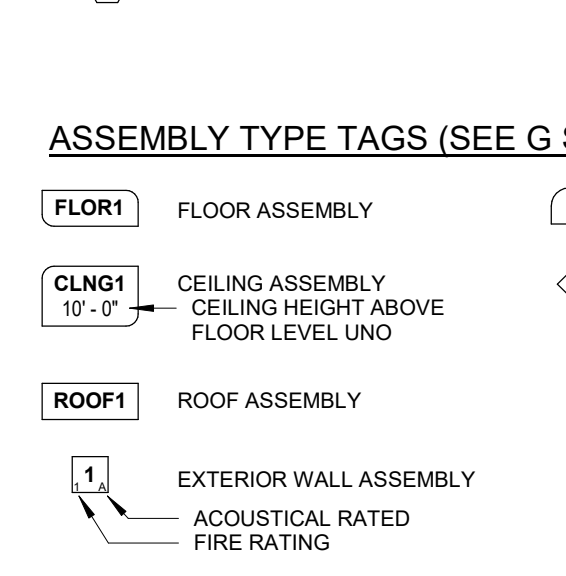
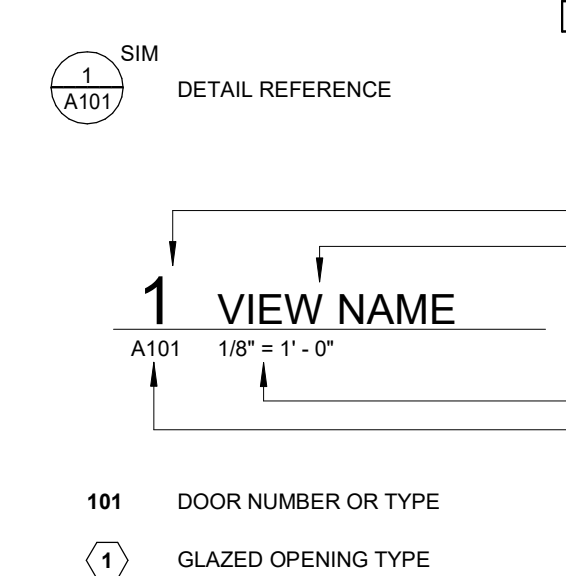
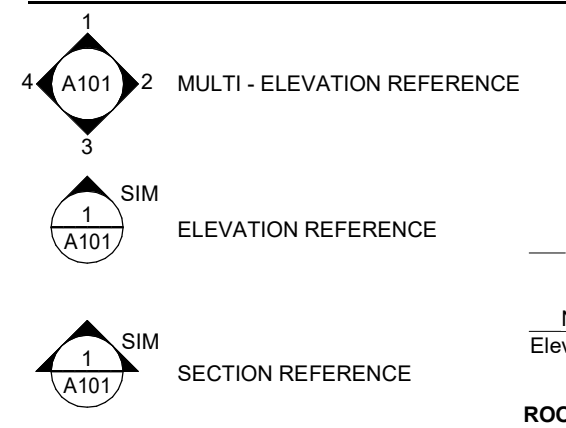
Table with 2 columns: Abbreviation and Full Name. Includes terms like JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ.

Table with 2 columns: Abbreviation and Full Name. Includes terms like KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ.

Table with 2 columns: Abbreviation and Full Name. Includes terms like LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ.

Table with 2 columns: Abbreviation and Full Name. Includes terms like MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ.

DRAFTING SYMBOLS



SHEET INDEX

Table listing sheet numbers and names: GENERAL, SHEET NAME, SHEET NO., SHEET NAME. Includes sheets like G000, G001, G002, etc.

SHEET INDEX

Table listing sheet numbers and names: ARCHITECTURAL, SHEET NO., SHEET NAME. Includes sheets like A010, A011, A012, etc.

SHEET INDEX

Table listing sheet numbers and names: MECHANICAL, SHEET NO., SHEET NAME. Includes sheets like M001, M002, M003, etc.

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MATERIAL / PRODUCT ID LIST

Table with 4 columns: ID, DESCRIPTION, Spec Data, and Notes. Lists materials like ACP-1.1, ACP-1.2, ACP-1.3, etc.

MATERIAL / PRODUCT ID LIST

Table with 4 columns: ID, DESCRIPTION, Spec Data, and Notes. Lists materials like ACP-1.4, ACP-1.5, ACP-1.6, etc.

MATERIAL / PRODUCT ID LIST

Table with 4 columns: ID, DESCRIPTION, Spec Data, and Notes. Lists materials like ACP-1.7, ACP-1.8, ACP-1.9, etc.

MATERIAL / PRODUCT ID LIST

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MATERIAL / PRODUCT ID LIST

Table with 4 columns: ID, DESCRIPTION, Spec Data, and Notes. Lists materials like ACP-1.13, ACP-1.14, ACP-1.15, etc.

MATERIAL / PRODUCT ID LIST

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MATERIAL / PRODUCT ID LIST

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MATERIAL / PRODUCT ID LIST

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MATERIAL / PRODUCT ID LIST

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MATERIAL / PRODUCT ID LIST

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MATERIAL / PRODUCT ID LIST

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MATERIAL / PRODUCT ID LIST

Table with 4 columns: ID, DESCRIPTION, Spec Data, and Notes. Lists materials like ACP-1.34, ACP-1.35, ACP-1.36, etc.

MATERIAL / PRODUCT ID LIST

Table with 4 columns: ID, DESCRIPTION, Spec Data, and Notes. Lists materials like ACP-1.37, ACP-1.38, ACP-1.39, etc.

MATERIAL / PRODUCT ID LIST

Table with 4 columns: ID, DESCRIPTION, Spec Data, and Notes. Lists materials like ACP-1.40, ACP-1.41, ACP-1.42, etc.

Bentonville Public Library Expansion
405 S Main Street
Bentonville, AR 72712

Print Name: Matthew Krukowski
Date: 1/18/2023
License No: 10100

BID SET - ADDENDUM 3

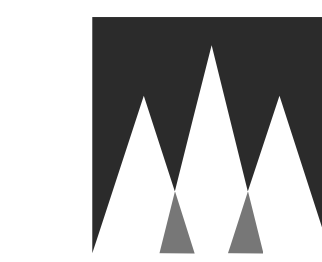
Table with 2 columns: Mark Date and Description. Lists items like 1/18/2023 LARGE SCALE DEVELOPMENT SUBMITTAL.

ISSUE / REVISION

Table with 2 columns: Mark Date and Description. Lists items like 1/18/2023 BID SET - ADDENDUM 1.

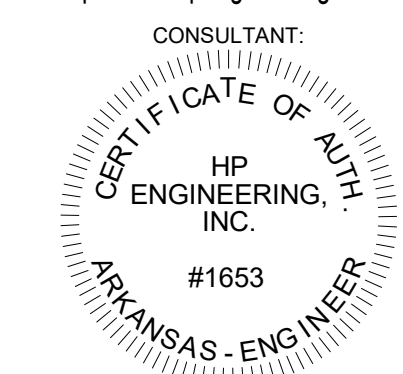
SHEET INDEX, MATERIAL IDS AND SYMBOLS





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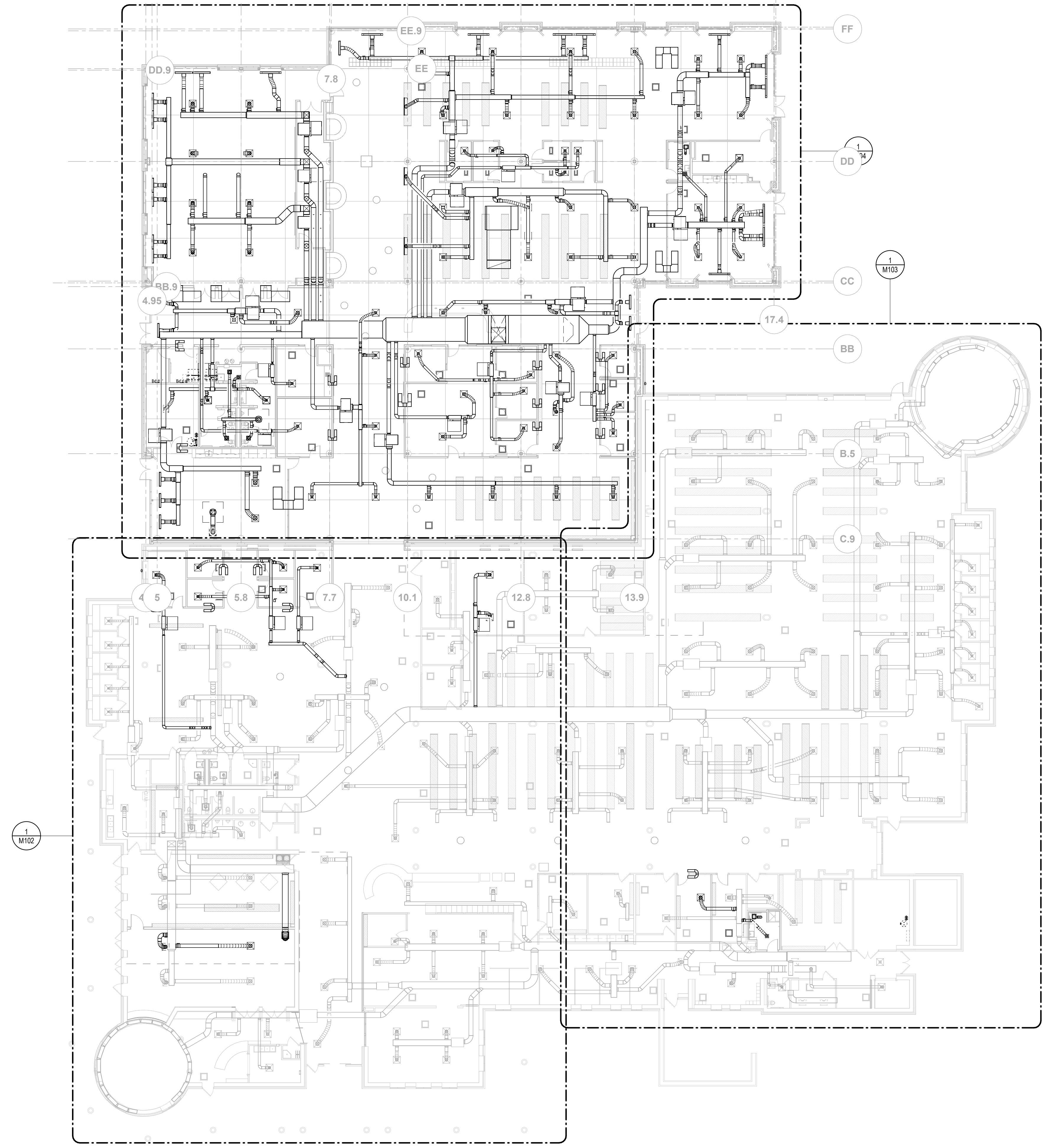
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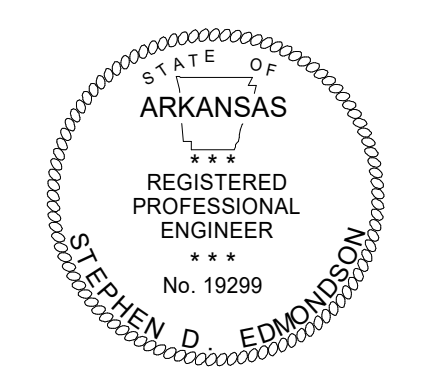
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NOTE:
 ALL DUCTWORK AND AIR DEVICES SHOWN HALF-TONE IS EXISTING TO REMAIN.



Project No. 2021037
**Bentonville Public Library
 Expansion**
 405 S Main Street
 Bentonville, AR 72712

Engineer Seal



Signature: *Stephen Edmondson*
 Print Name: Stephen Edmondson
 Date: 01-06-2023 License No.: 19299

BID SET

ISSUE / REVISION

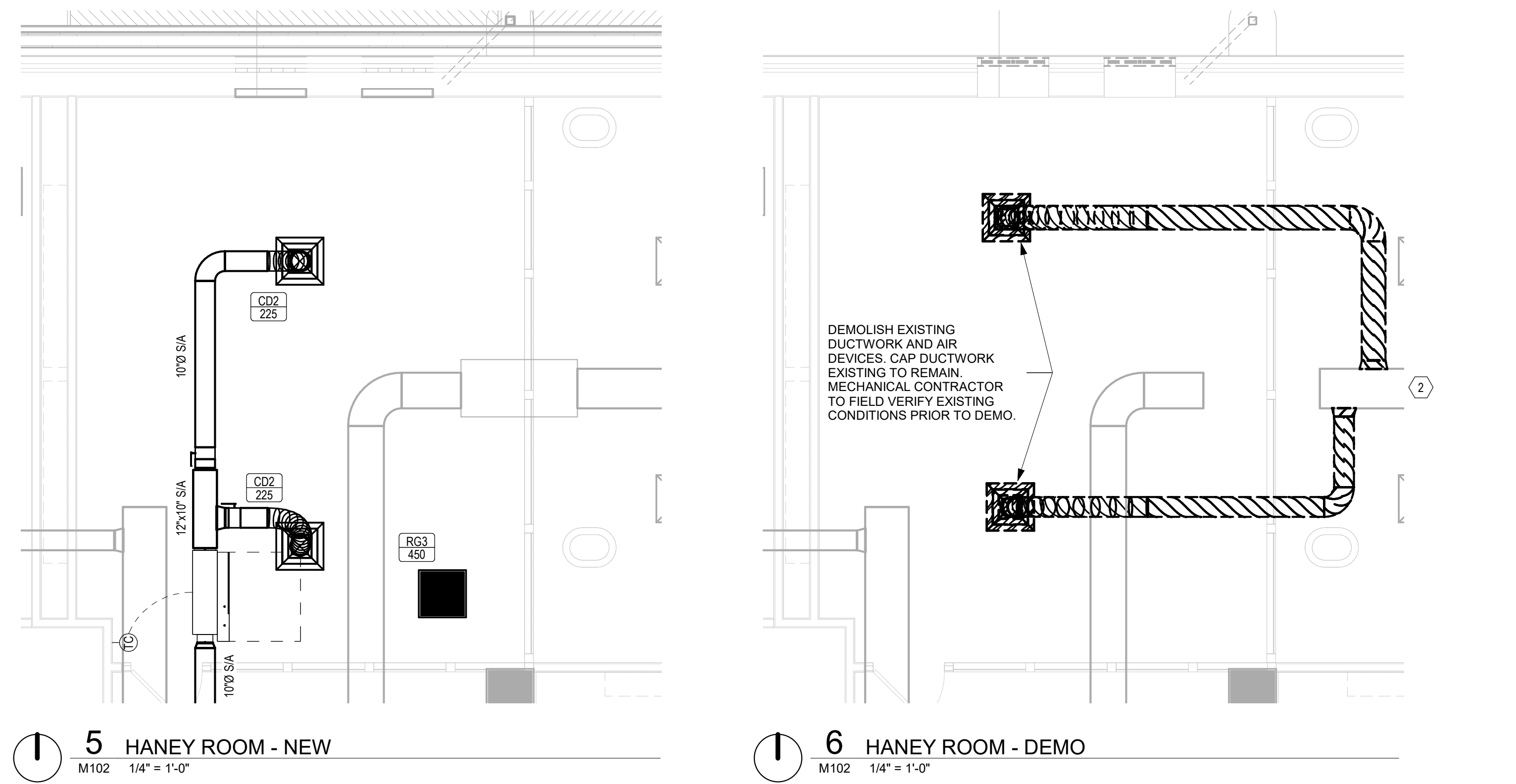
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	06/22/2022	DESIGN DEVELOPMENT PRICING
	8/12/2022	DD VE OPTION B
	10/13/2022	PRE APP SET
	10/28/2022	LARGE SCALE DEVELOPMENT SUBMITTAL
	10/31/2022	CD PRICING SET
	11/14/2022	SECOND LSD SUBMITTAL
	11/28/2022	THIRD LSD SUBMITTAL
	12/21/2022	PERMIT SET
	1/6/2023	BID SET

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**MECHANICAL
 OVERALL PLAN**

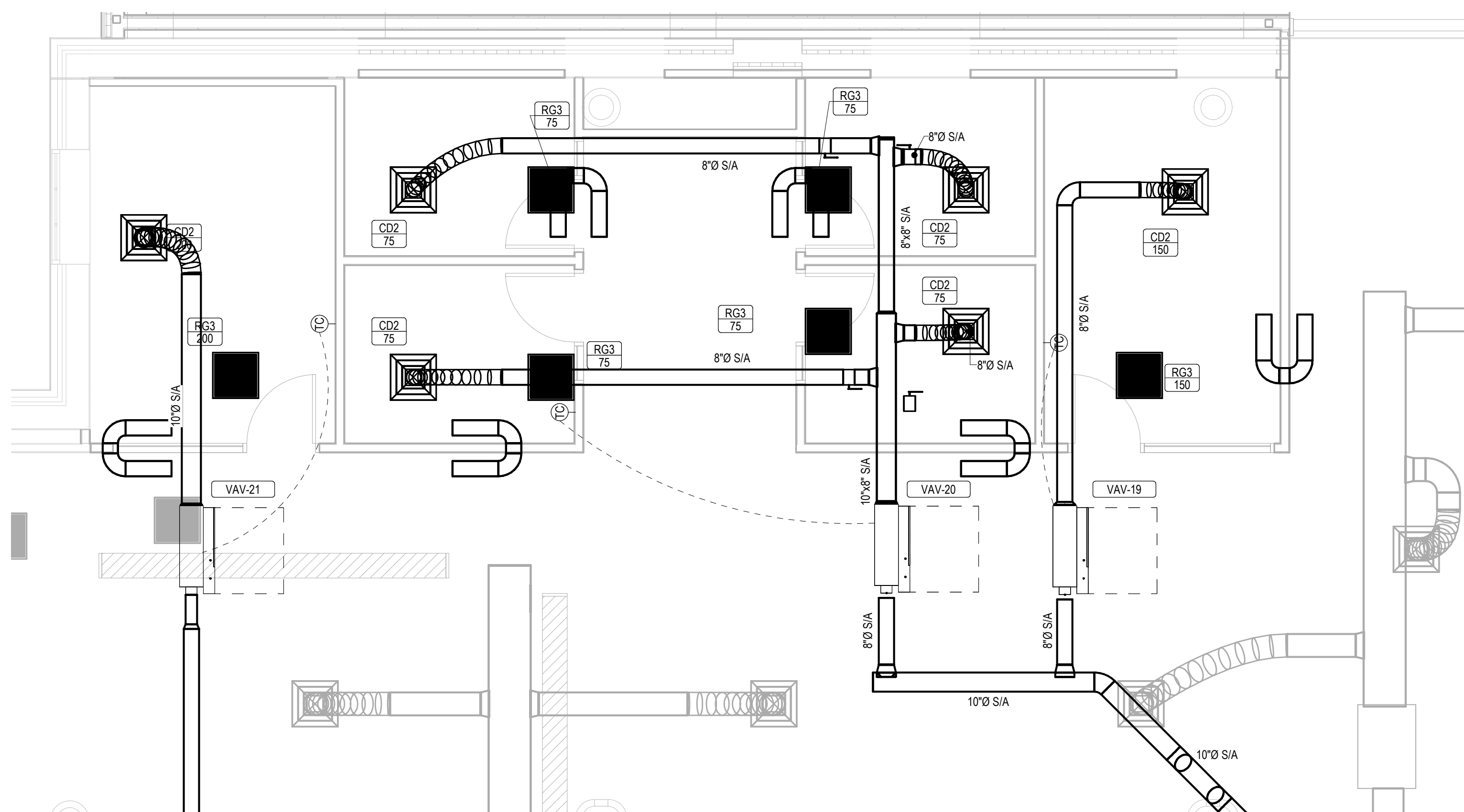
M101

1 OVERALL MECHANICAL PLAN
 M101 1/16" = 1'-0"

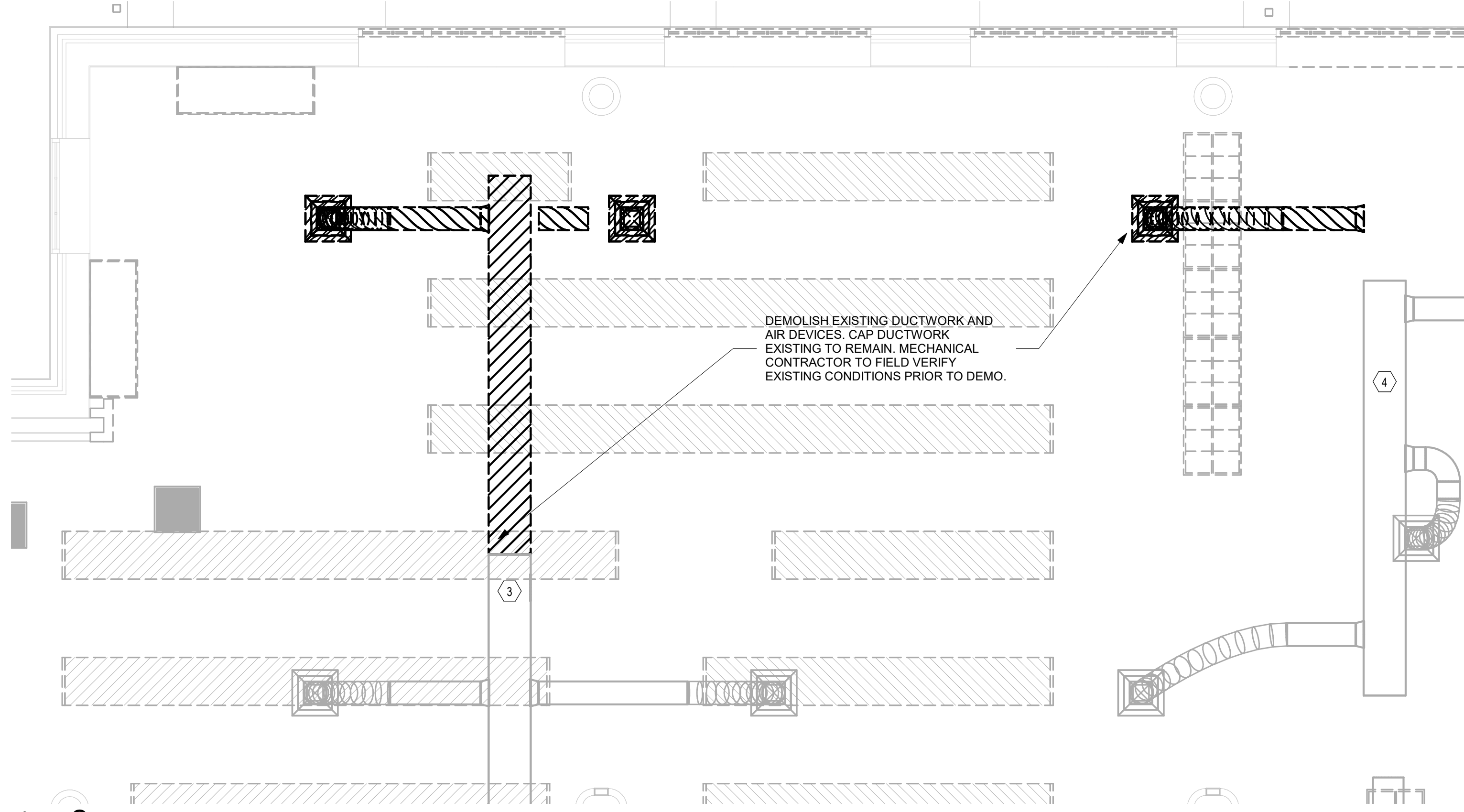


5 HANEY ROOM - NEW
M102 1/4" = 1'-0"

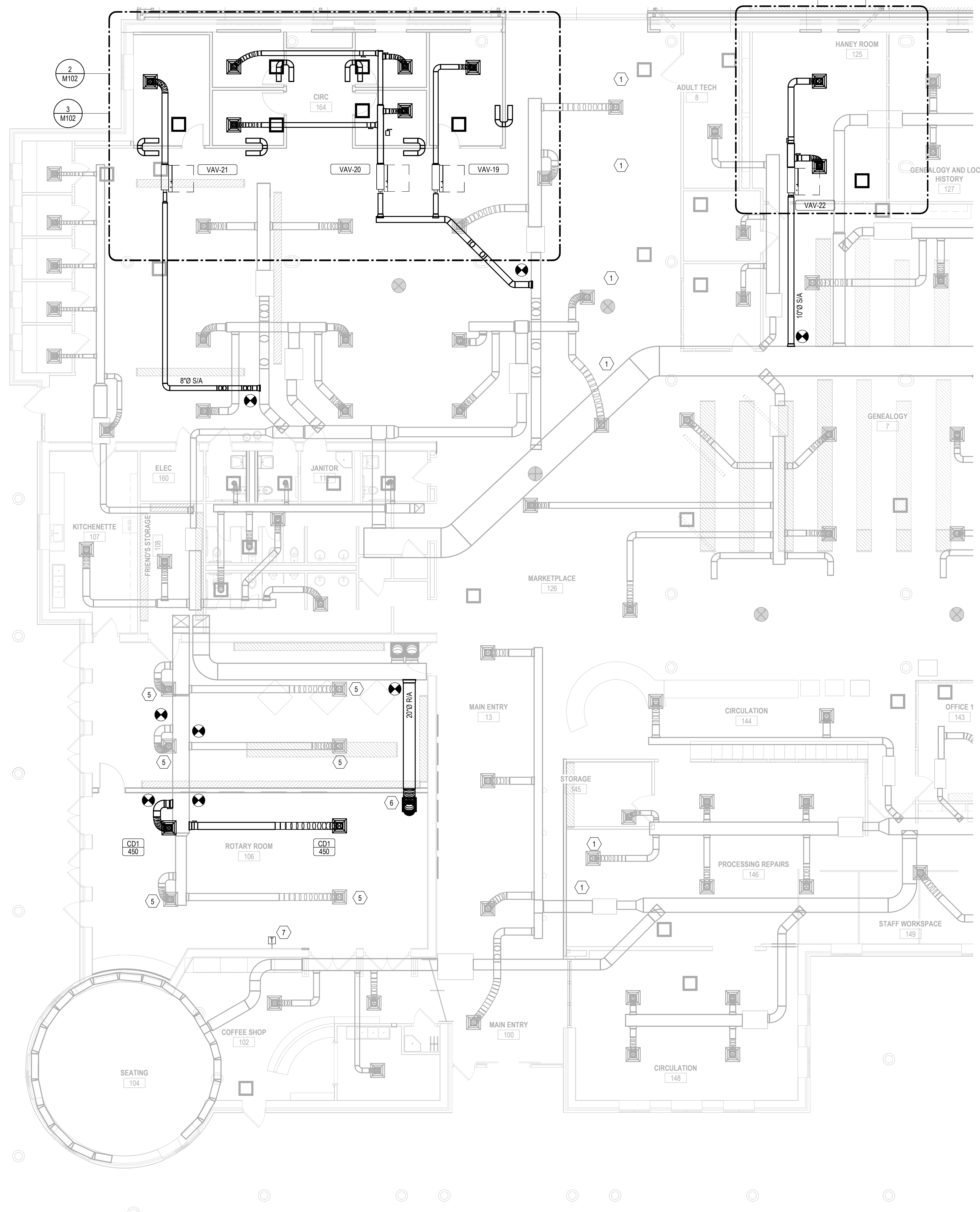
6 HANEY ROOM - DEMO
M102 1/4" = 1'-0"



3 MEETING ROOMS - NEW
M102 1/4" = 1'-0"



2 MEETING ROOMS - DEMO
M102 1/4" = 1'-0"



1 MECHANICAL PLAN - EXISTING WEST
M102 1/8" = 1'-0"

- KEYNOTES**
- EXISTING AIR DEVICE TO BE RELOCATED IN NEW CEILING.
 - NEW MAX CFM OF EXISTING VAV BOX TO BE 1450 CFM. BALANCE EXISTING AIR DEVICES SERVED FROM THIS VAV BOX TO 375 CFM EACH.
 - NEW MAX CFM OF EXISTING VAV BOX TO BE 1000 CFM. BALANCE EXISTING AIR DEVICES SERVED FROM THIS VAV BOX TO 500 CFM EACH.
 - NEW MAX CFM OF EXISTING VAV BOX TO BE 1500 CFM. BALANCE EXISTING AIR DEVICES SERVED FROM THIS VAV BOX TO 500 CFM EACH.
 - EXISTING AIR DEVICE TO REMAIN. REBALANCE TO 450 CFM.
 - CONNECT NEW AIR DEVICE AND BRANCH DUCTWORK TO EXISTING TRUNK DUCT. BALANCE NEW AIR DEVICE TO 1800 CFM.
 - EXISTING THERMOSTAT TO REMAIN.

- NOTES**
- ALL DUCTWORK AND AIR DEVICES SHOWN HALF TONE IS EXISTING TO REMAIN.
 - SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR DEVICE LAYOUTS. NOTIFY ARCH OF ANY DISCREPANCIES.

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Project No. 2021037
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 405 S Main Street
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Engineer Seal
 STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 STEPHEN D. EDMONDSON
 No. 19299

Signature: *Stephen Edmondson*
 Print Name: Stephen Edmondson
 Date: 01-06-2023 License No.: 19299

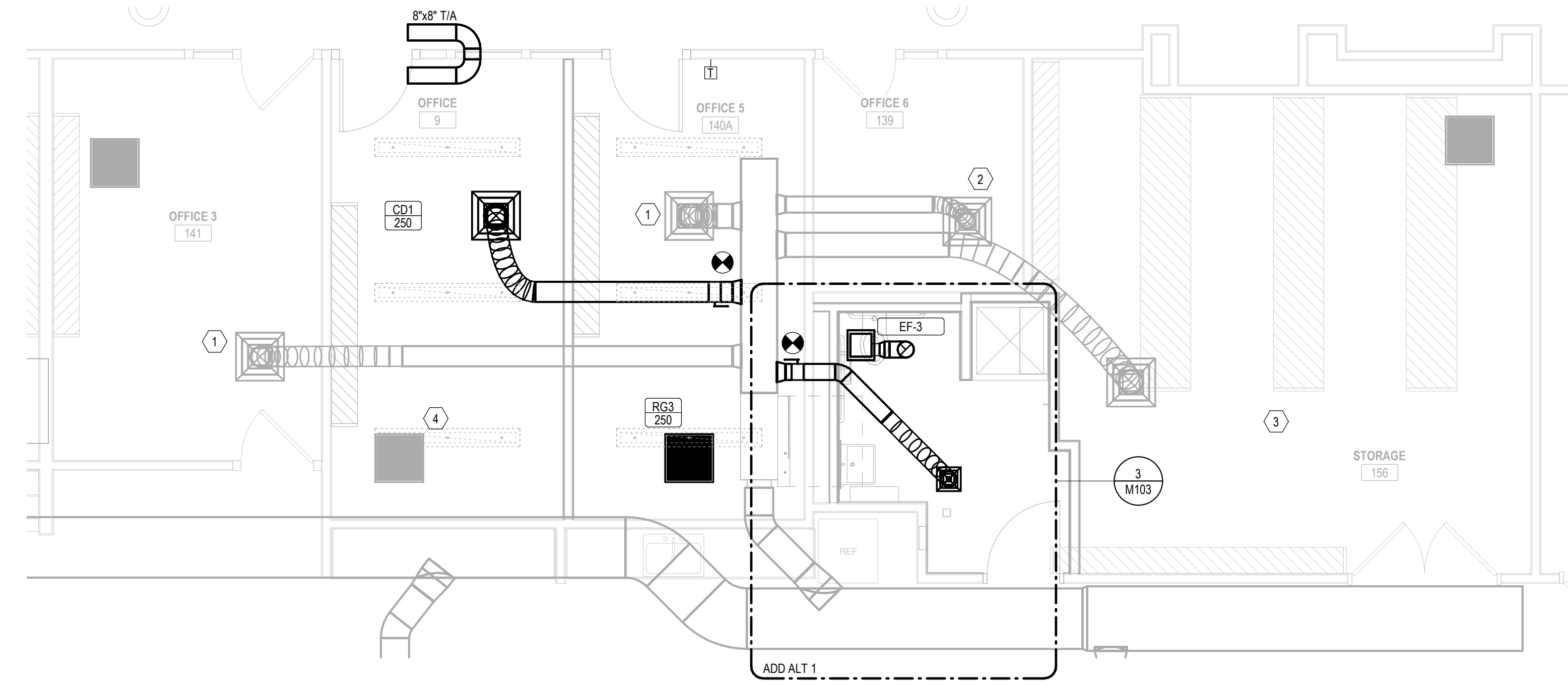
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ISSUE / REVISION

Mark	Date	Description
12/16/2021	12/16/2021	SCHEMATIC DESIGN PRICING
06/22/2022	06/22/2022	DESIGN DEVELOPMENT PRICING
8/1/2022	8/1/2022	DD VE OPTION B
10/13/2022	10/13/2022	PRE APP SET
10/28/2022	10/28/2022	LARGE SCALE DEVELOPMENT SUBMITTAL
10/31/2022	10/31/2022	CD PRICING SET
11/14/2022	11/14/2022	SECOND LSD SUBMITTAL
11/28/2022	11/28/2022	THIRD LSD SUBMITTAL
12/21/2022	12/21/2022	PERMIT SET
1/6/2023	1/6/2023	BID SET

MECHANICAL PLAN - EXISTING WEST

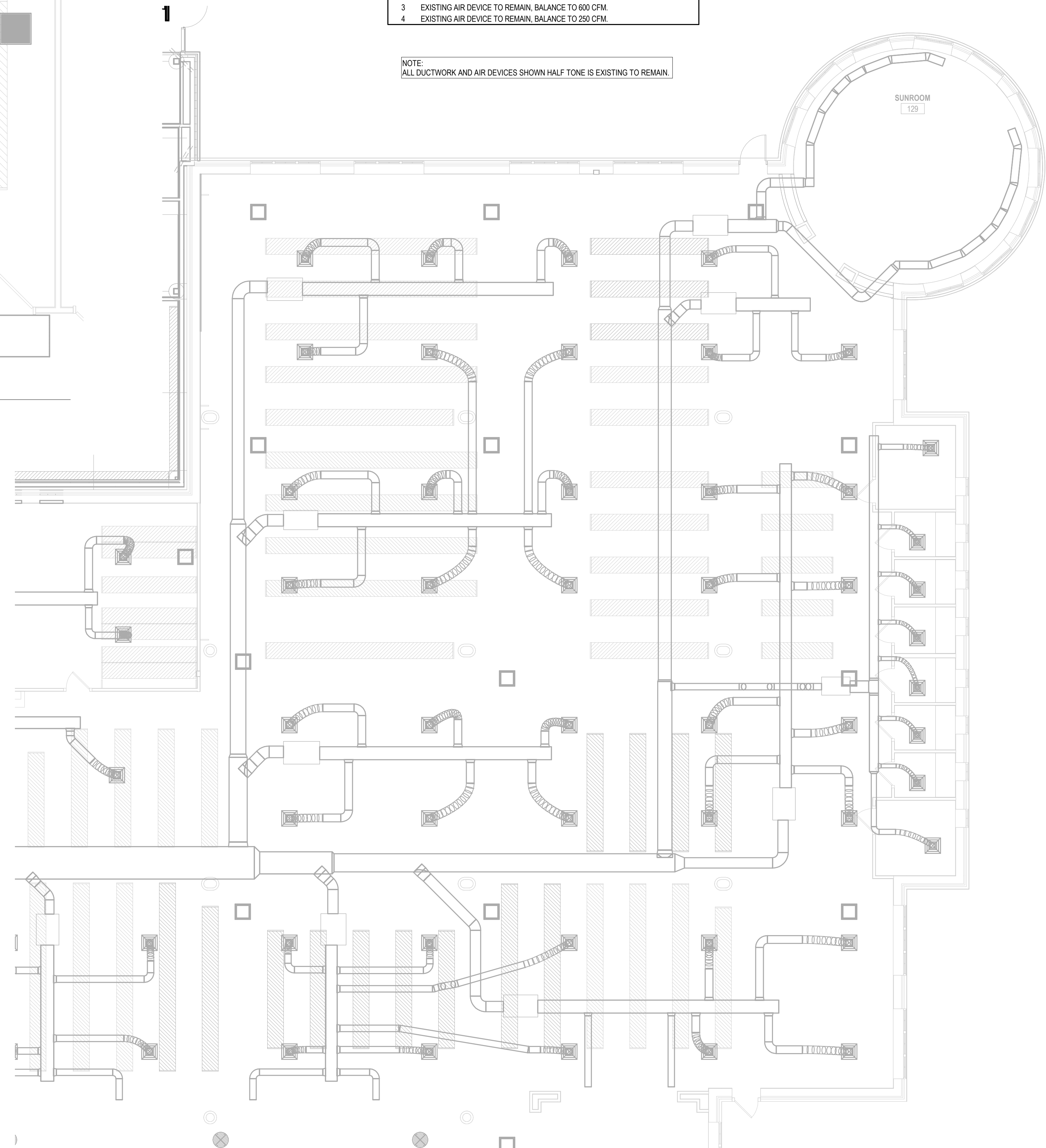
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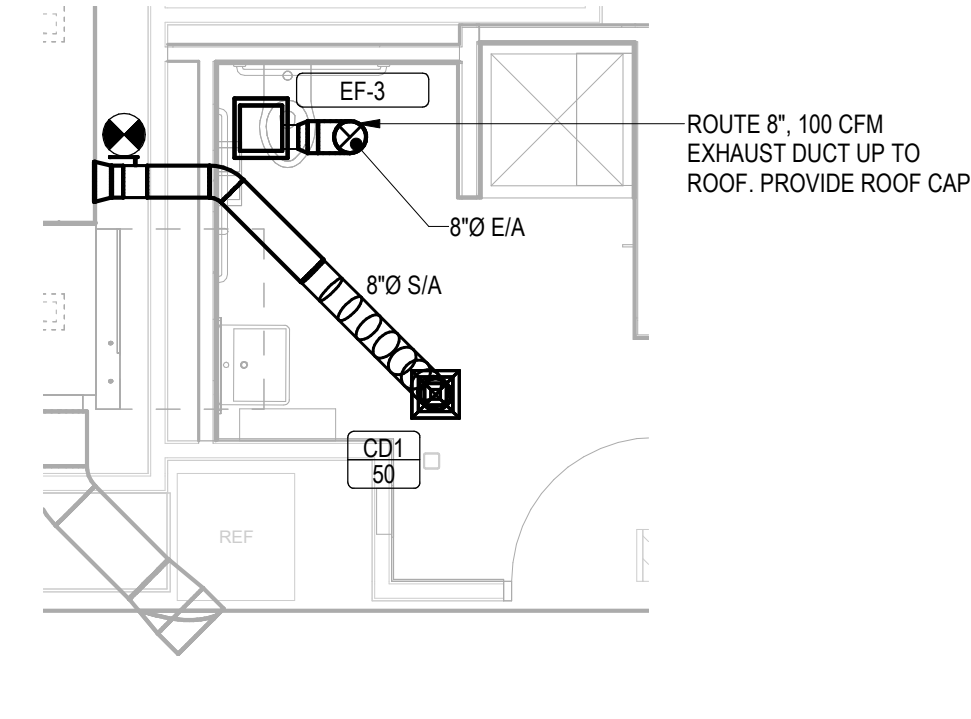
KEYNOTES

- 1 EXISTING AIR DEVICE TO REMAIN, BALANCE TO 250 CFM.
- 2 EXISTING AIR DEVICE TO REMAIN, BALANCE TO 100 CFM.
- 3 EXISTING AIR DEVICE TO REMAIN, BALANCE TO 600 CFM.
- 4 EXISTING AIR DEVICE TO REMAIN, BALANCE TO 250 CFM.

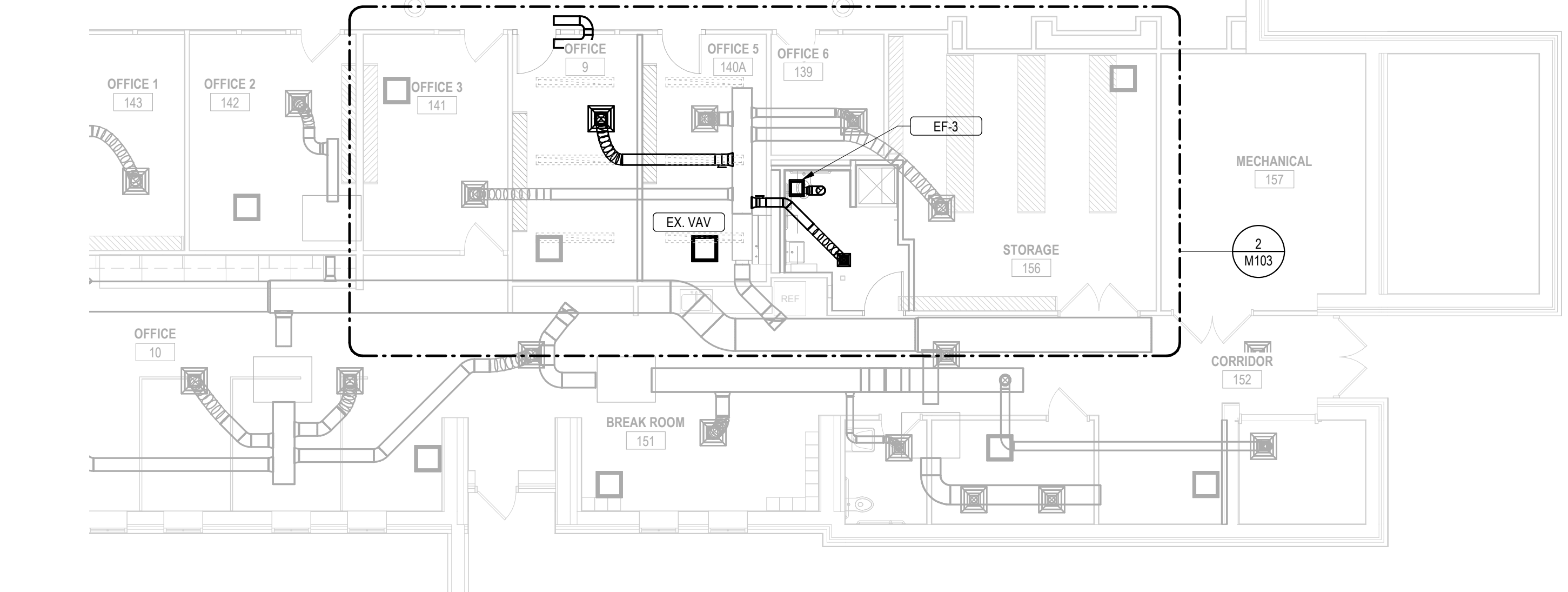
NOTE:
ALL DUCTWORK AND AIR DEVICES SHOWN HALF TONE IS EXISTING TO REMAIN.



2 OFFICES - NEW
M103 1/4" = 1'-0"



3 RESTROOM - ADD ALT 1
M103 1/4" = 1'-0"



1 MECHANICAL PLAN - EXISTING EAST
M103 1/8" = 1'-0"

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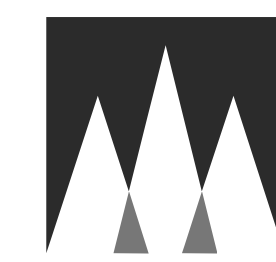
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	6/22/2022	DESIGN DEVELOPMENT PRICING
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	10/13/2022	PRE APP SET
	10/28/2022	LARGE SCALE DEVELOPMENT SUBMITTAL
	10/31/2022	CD PRICING SET
	11/14/2022	SECOND LSD SUBMITTAL
	11/28/2022	THIRD LSD SUBMITTAL
	12/21/2022	PERMIT SET
	1/6/2023	BID SET
	1/18/2023	ADDENDUM #1
	1/19/2023	ADDENDUM #2

MECHANICAL PLAN - EXISTING EAST

M103



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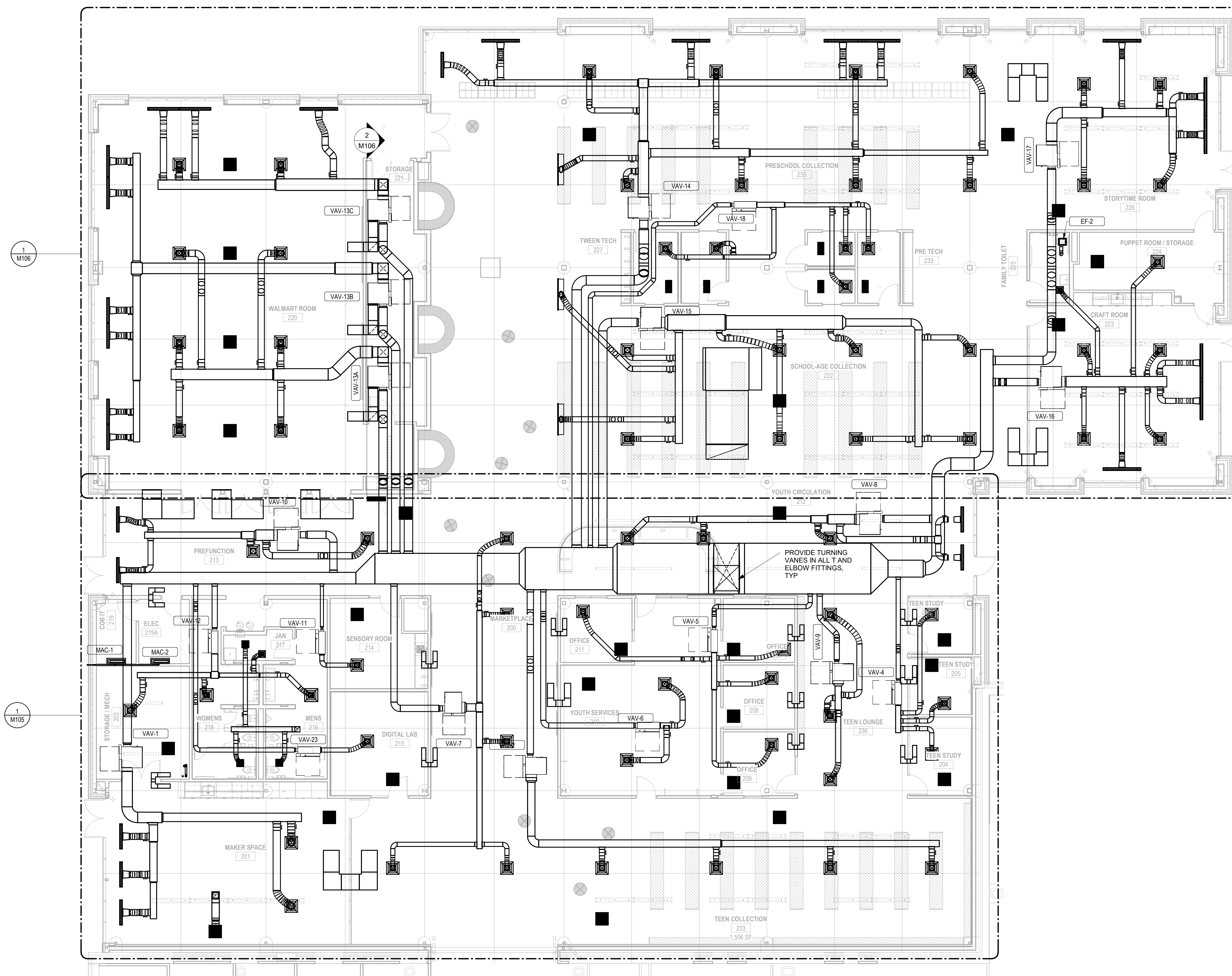
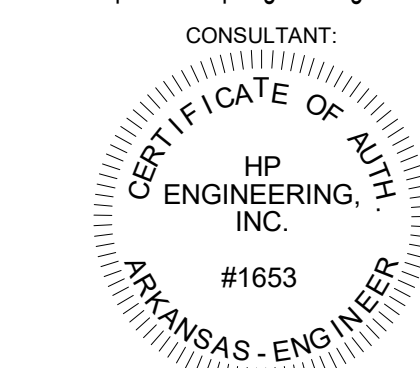
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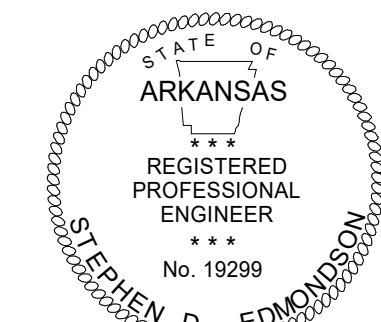


1 MECHANICAL PLAN - ADDITION
M104 1/8" = 1'-0"

**Bentonville Public Library
Expansion**
405 S Main Street
Bentonville, AR 72712

Project No. 2021037

Engineer Seal



Signature: *Stephen Edmondson*

Print Name: Stephen Edmondson

Date: 01-18-2023 License No.: 19299

BID SET

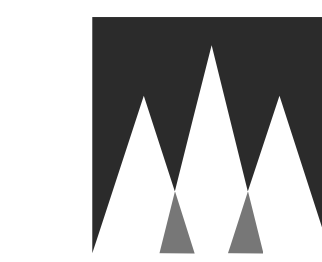
ISSUE / REVISION

Mark	Date	Description
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	6/22/2022	DESIGN DEVELOPMENT PRICING
	8/1/2022	DD VE OPTION B
	10/13/2022	PRE APP SET
	10/28/2022	LARGE SCALE DEVELOPMENT SUBMITTAL
	10/31/2022	CD PRICING SET
	11/14/2022	SECOND LSD SUBMITTAL
	11/28/2022	THIRD LSD SUBMITTAL
	12/21/2022	PERMIT SET
	1/8/2023	BID SET
	1/18/2023	ADDENDUM #1
	1/19/2023	ADDENDUM #2

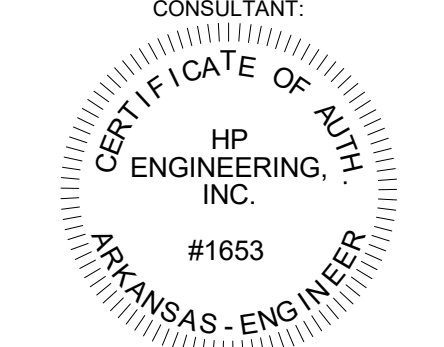
Issued: 03/01/2023

**MECHANICAL PLAN -
ADDITION**

M104

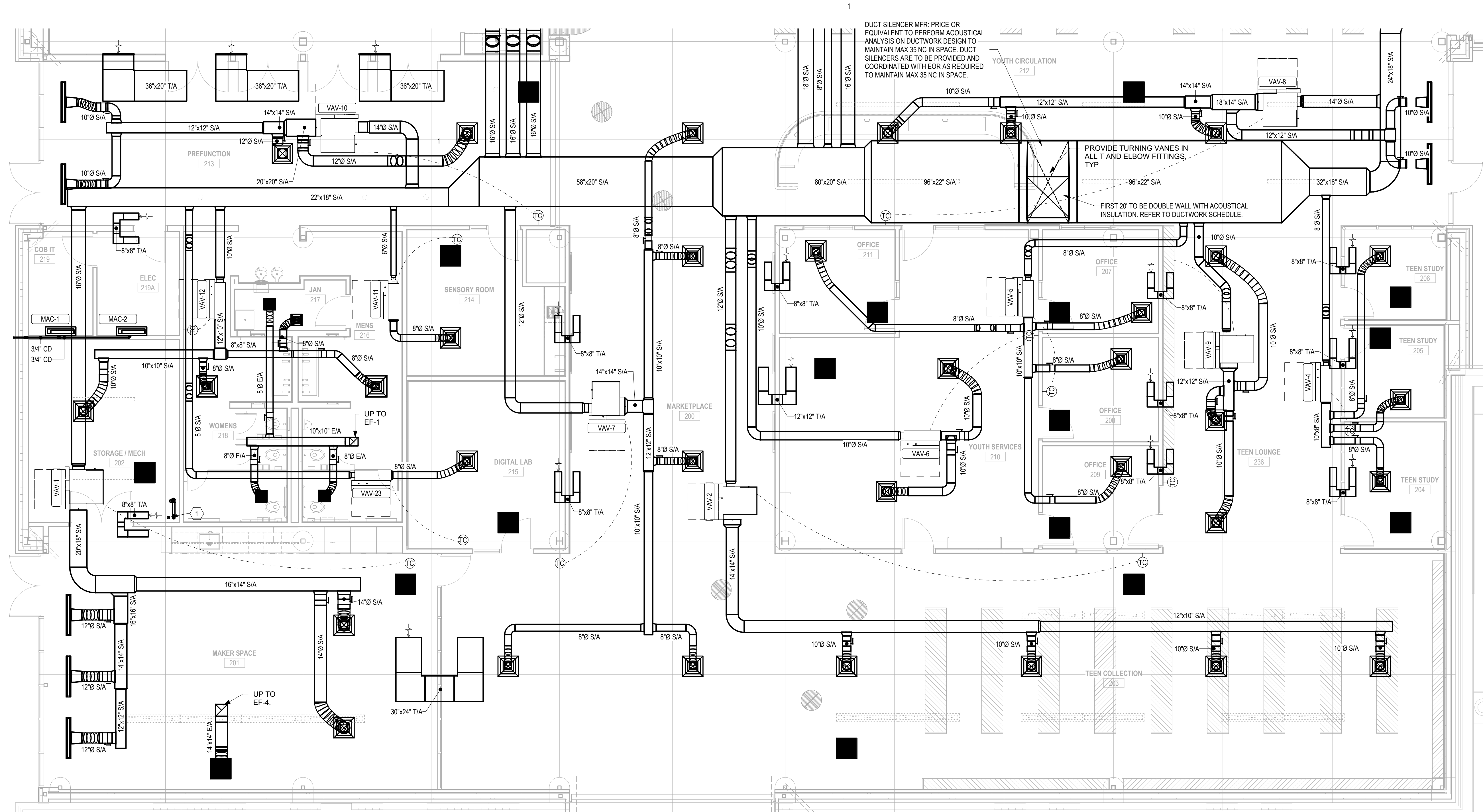


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KEYNOTES
 1 FUME EXHAUST AND COMBUSTION AIR DUCT UP TO ROOF TO MANUFACTURER'S CONCENTRIC VENT KIT. SIZE AND INSTALL PER MANUFACTURER'S INSTRUCTION.



1 MECHANICAL PLAN - ADDITION SOUTH
 M105 3/16" = 1'-0"

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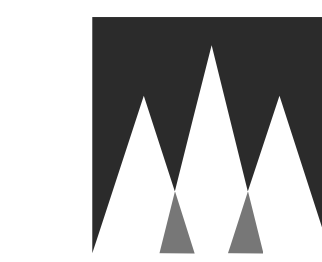
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 Signature: *Stephen D. Edmondson*
 Print Name: Stephen Edmondson
 Date: 01-18-2023 License No.: 19299

BID SET

ISSUE / REVISION

Mark	Date	Description
12/16/2021	12/16/2021	SCHEMATIC DESIGN PRICING
6/22/2022	6/22/2022	DESIGN DEVELOPMENT PRICING
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1/6/2023	1/6/2023	BID SET
1/18/2023	1/18/2023	ADDENDUM #1
1/19/2023	1/19/2023	ADDENDUM #2

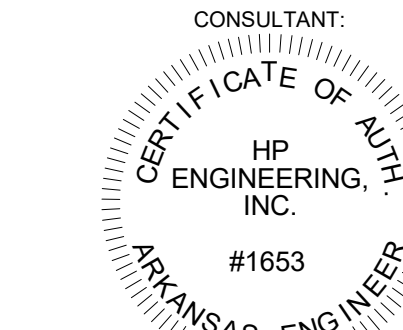
MECHANICAL PLAN -
 ADDITION ENLARGED
M105



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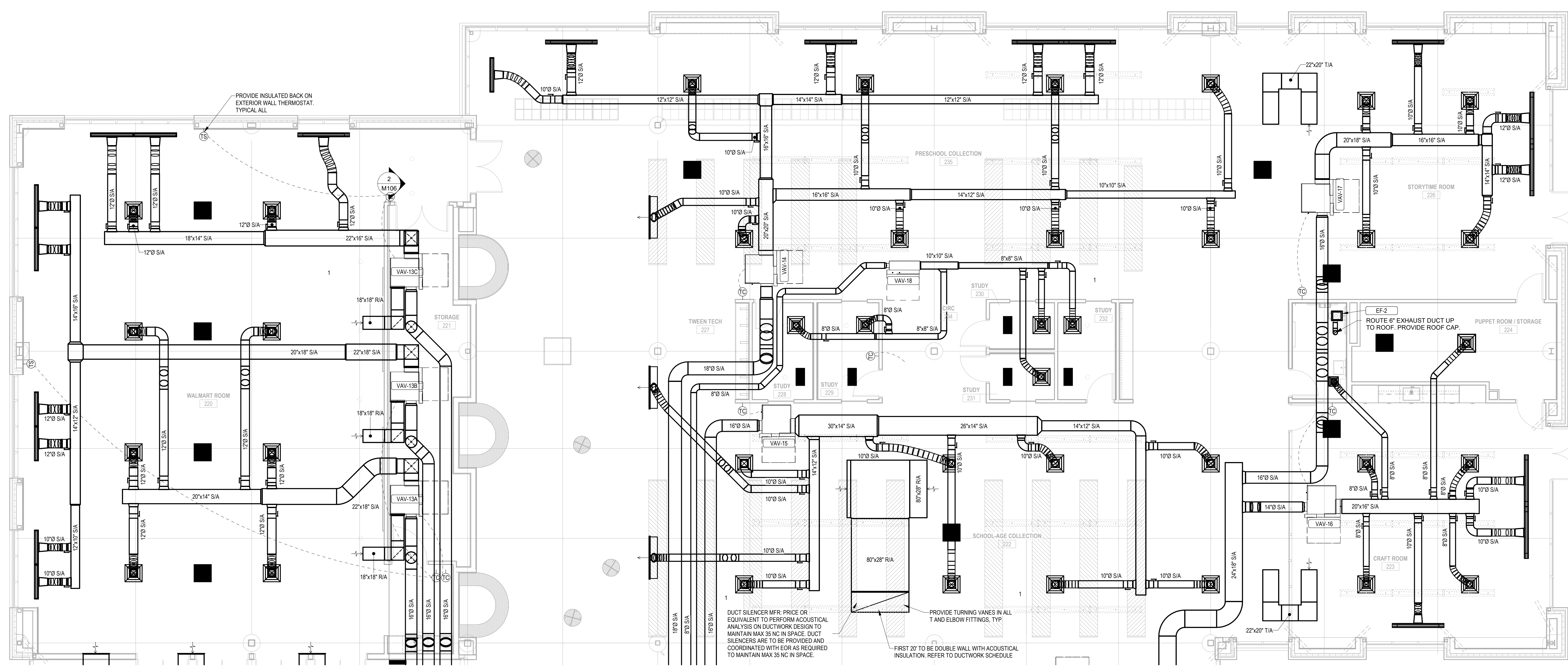
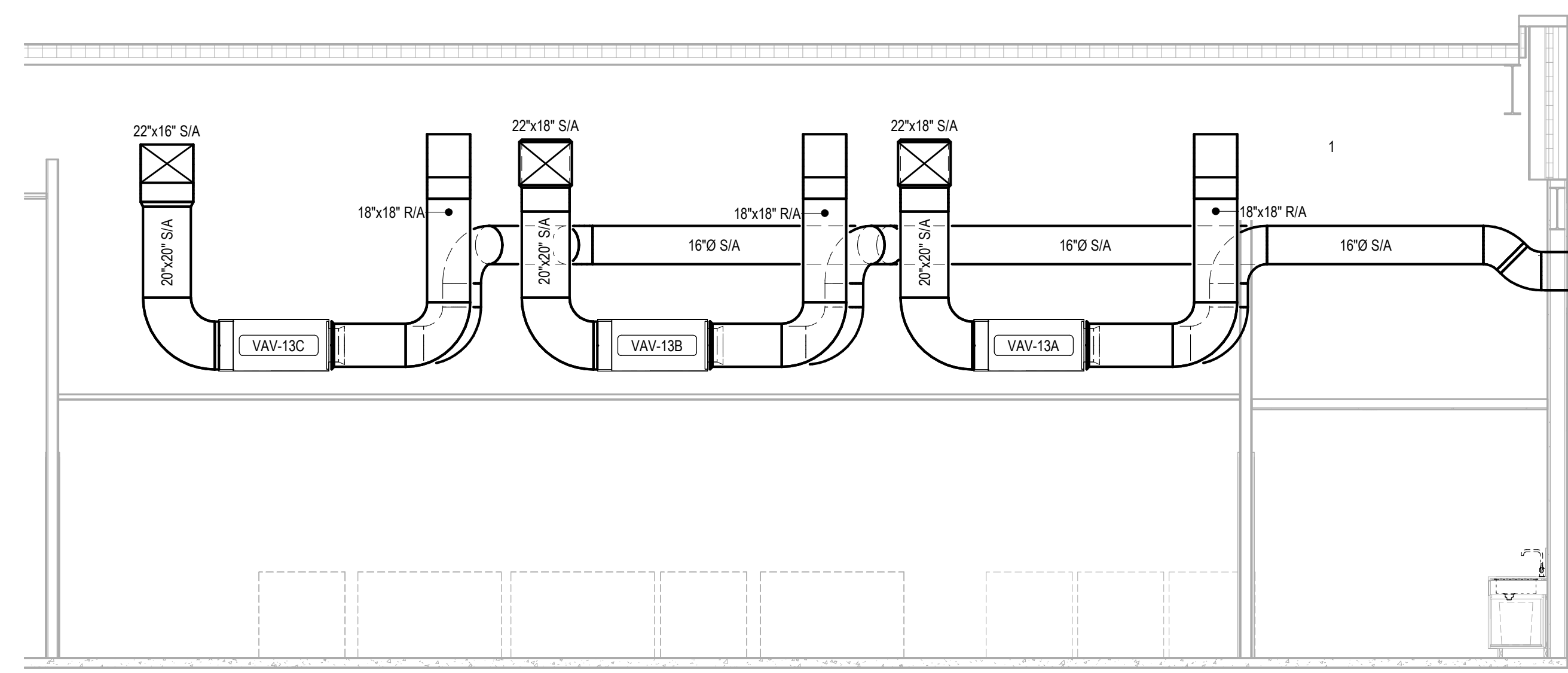
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2 WARMART ROOM VAV DUCTWORK
M106 1/4" = 1'-0"



PROVIDE INSULATED BACK ON EXTERIOR WALL THERMOSTAT. TYPICAL ALL.

DUCT SILENCER MFR. PRICE OR EQUIVALENT TO PERFORM ACOUSTICAL ANALYSIS ON DUCTWORK DESIGN TO MAINTAIN MAX 35 NC IN SPACE. DUCT SILENCERS ARE TO BE PROVIDED AND COORDINATED WITH EOR AS REQUIRED TO MAINTAIN MAX 35 NC IN SPACE.

PROVIDE TURNING VANES IN ALL T AND ELBOW FITTINGS, TYP.
FIRST 20' TO BE DOUBLE WALL WITH ACOUSTICAL INSULATION REFER TO DUCTWORK SCHEDULE

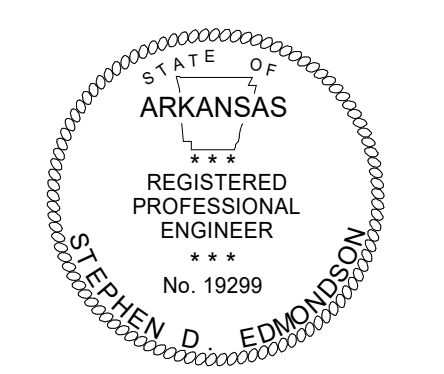
EF-2
ROUTE 6" EXHAUST DUCT UP TO ROOF. PROVIDE ROOF CAP.

1 MECHANICAL PLAN - ADDITION NORTH
M106 3/16" = 1'-0"

**Bentonville Public Library
Expansion**
405 S Main Street
Bentonville, AR 72712

Project No. 2021037

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Print Name: Stephen Edmondson
Date: 01-18-2023 License No. 19299

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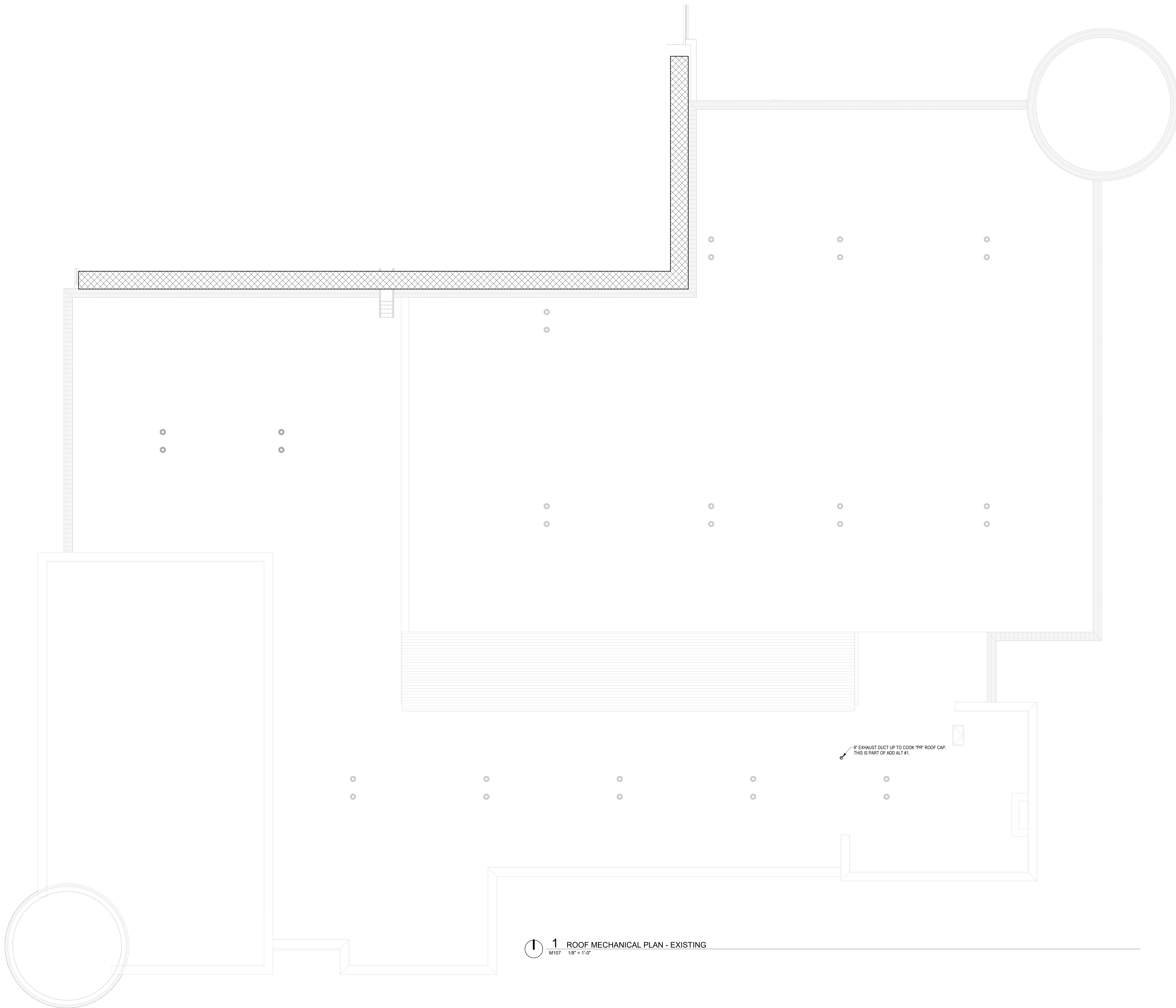
ISSUE / REVISION

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1/6/2023	1/6/2023	BID SET
1/18/2023	1/18/2023	ADDENDUM #1
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MECHANICAL PLAN -
ADDITION ENLARGED

M106



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 ARKANSAS - ENGINEER

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Project No. 2021037
**Bentonville Public Library
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 405 S Main Street
 Bentonville, AR 72712

Engineer Seal

 Signature: *Stephen Edmondson*
 Print Name: Stephen Edmondson
 Date: 01-18-2023 License No. 19299

BID SET

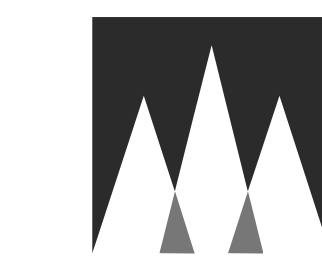
ISSUE / REVISION

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	1/6/2023	BID SET
	1/18/2023	ADDENDUM #1
	1/19/2023	ADDENDUM #2

1 ROOF MECHANICAL PLAN - EXISTING
 M107 1/8" = 1'-0"

MECHANICAL ROOF PLAN - EXISTING
M107

Drawn: DSI Group/PAE, Rev: 01/18/2023, 11:50 AM, 1/18/2023 11:50 AM, Autodesk AutoCAD 2022, Bentley ProjectWise, Microsoft Office 2019, Revit 2021



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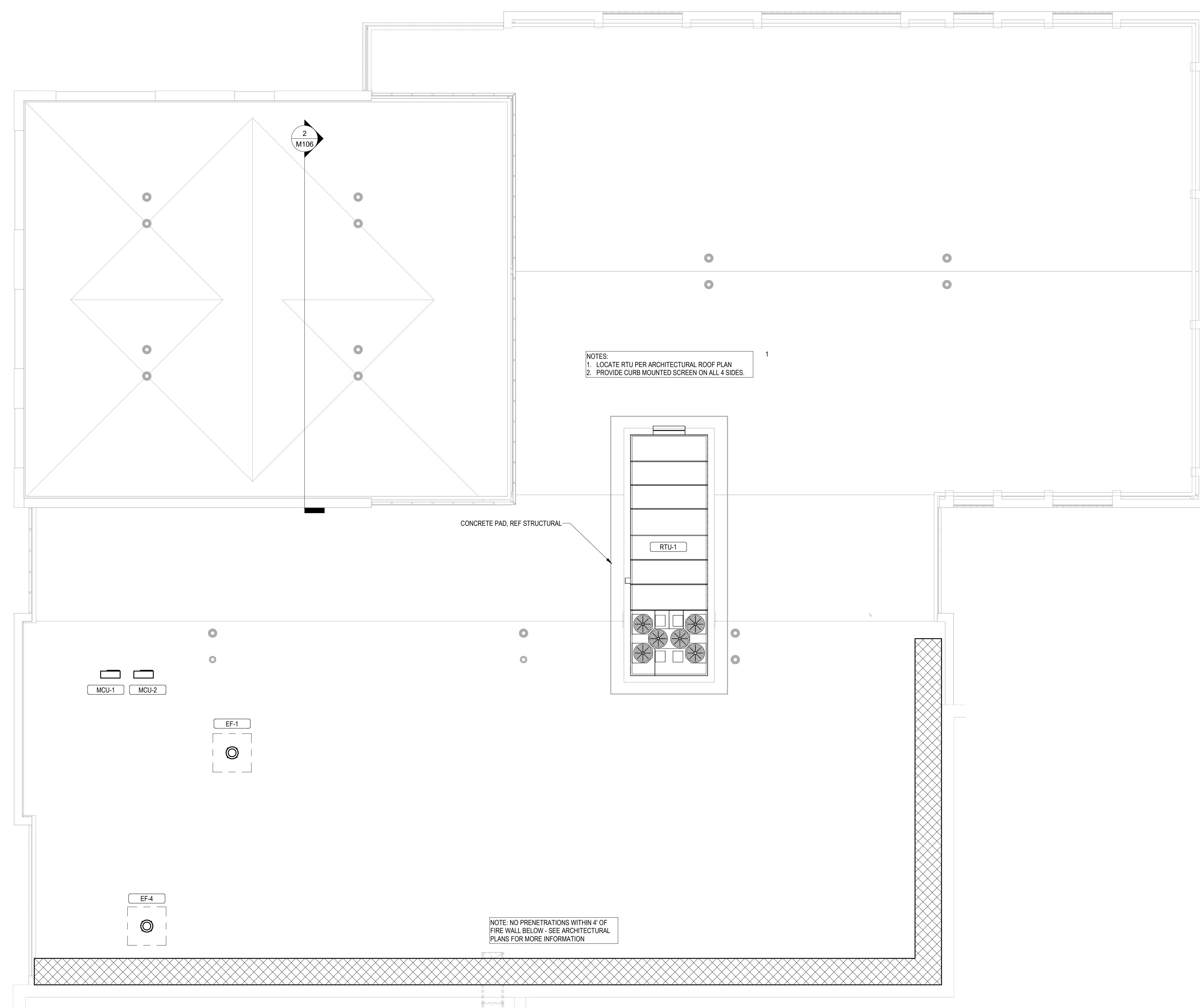
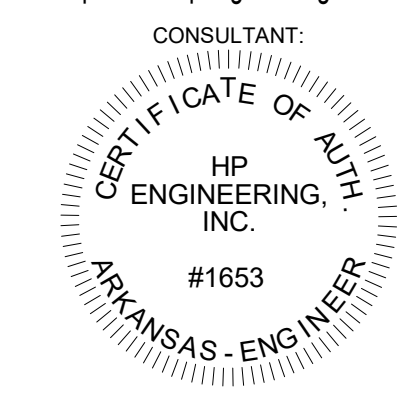
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NOTES:
1. LOCATE RTU PER ARCHITECTURAL ROOF PLAN
2. PROVIDE CURB MOUNTED SCREEN ON ALL 4 SIDES.

CONCRETE PAD, REF STRUCTURAL

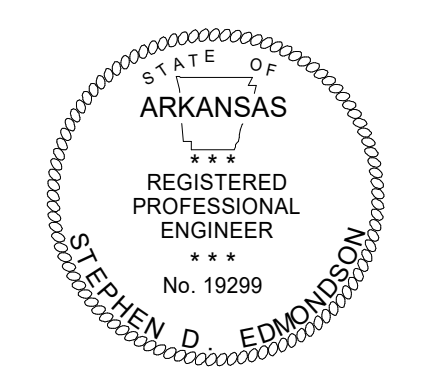
NOTE: NO PENETRATIONS WITHIN 4' OF
PIRE WALL BELOW - SEE ARCHITECTURAL
PLANS FOR MORE INFORMATION

1 ROOF MECHANICAL PLAN
M108 1/8" = 1'-0"

**Bentonville Public Library
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Bentonville, AR 72712

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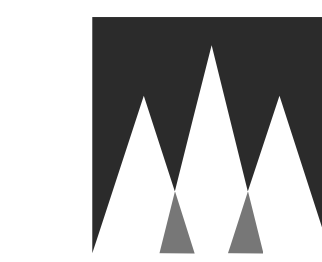
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	1/19/2023	ADDENDUM #2

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MECHANICAL ROOF PLAN - ADDITION
M108



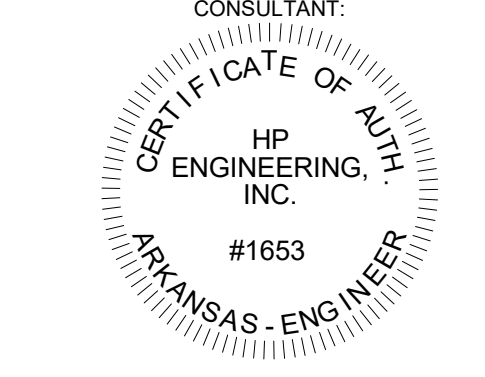
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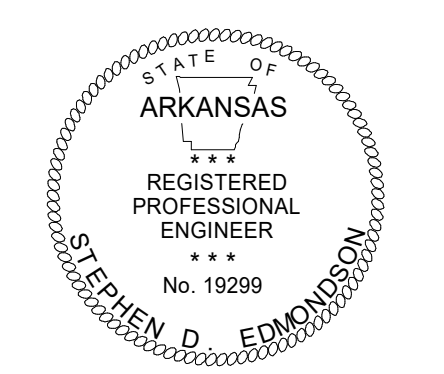
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Project No. 2021027

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Print Name: Stephen Edmondson
Date: 01-18-2023 License No. 19299

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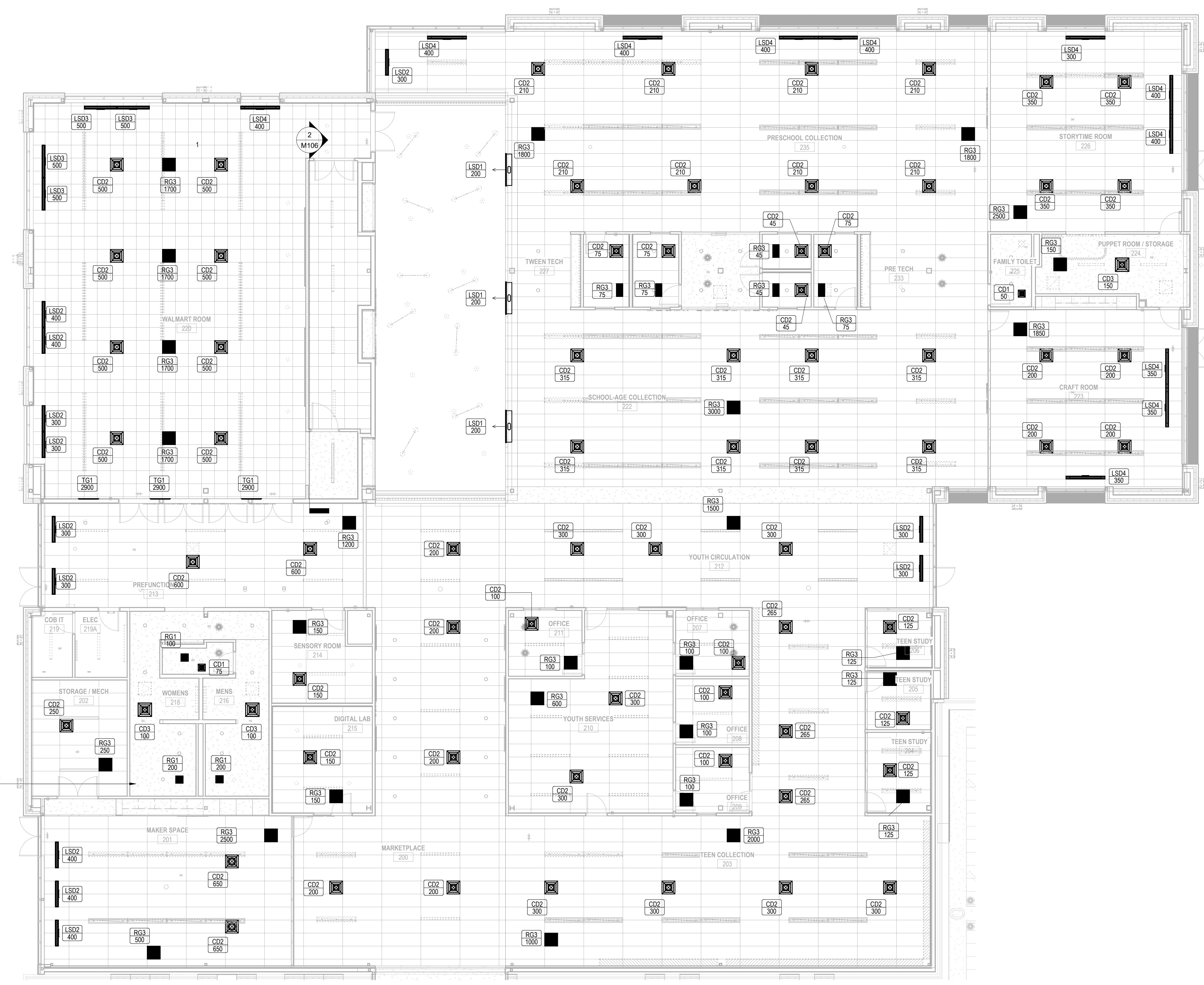
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	1/19/2023	ADDENDUM #2

Issued: 01/18/2023

PROVIDE ACCESS PANELS IN GYP CEILING FOR WAX BOXES. TYPICAL FOR ALL GYP CEILINGS.

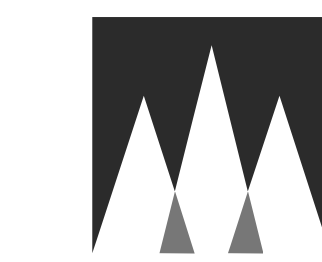
1 ADDITION RCP
M109 1/8" = 1'-0"



Drawn: DLT/Engineering, Inc. Checked: P. Edmondson, Inc. 1/18/2023 12:15:04 AM. Autodesk Revit 2022. Autodesk Revit 2022. Bentley ProjectWise 2022. HP Engineering, Inc.

M109

MECHANICAL RCP - ADDITION

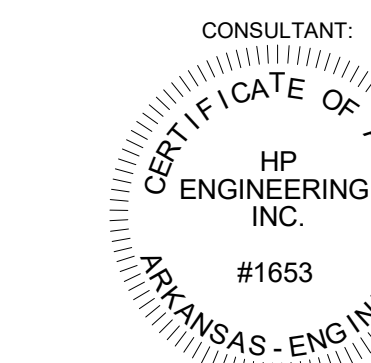


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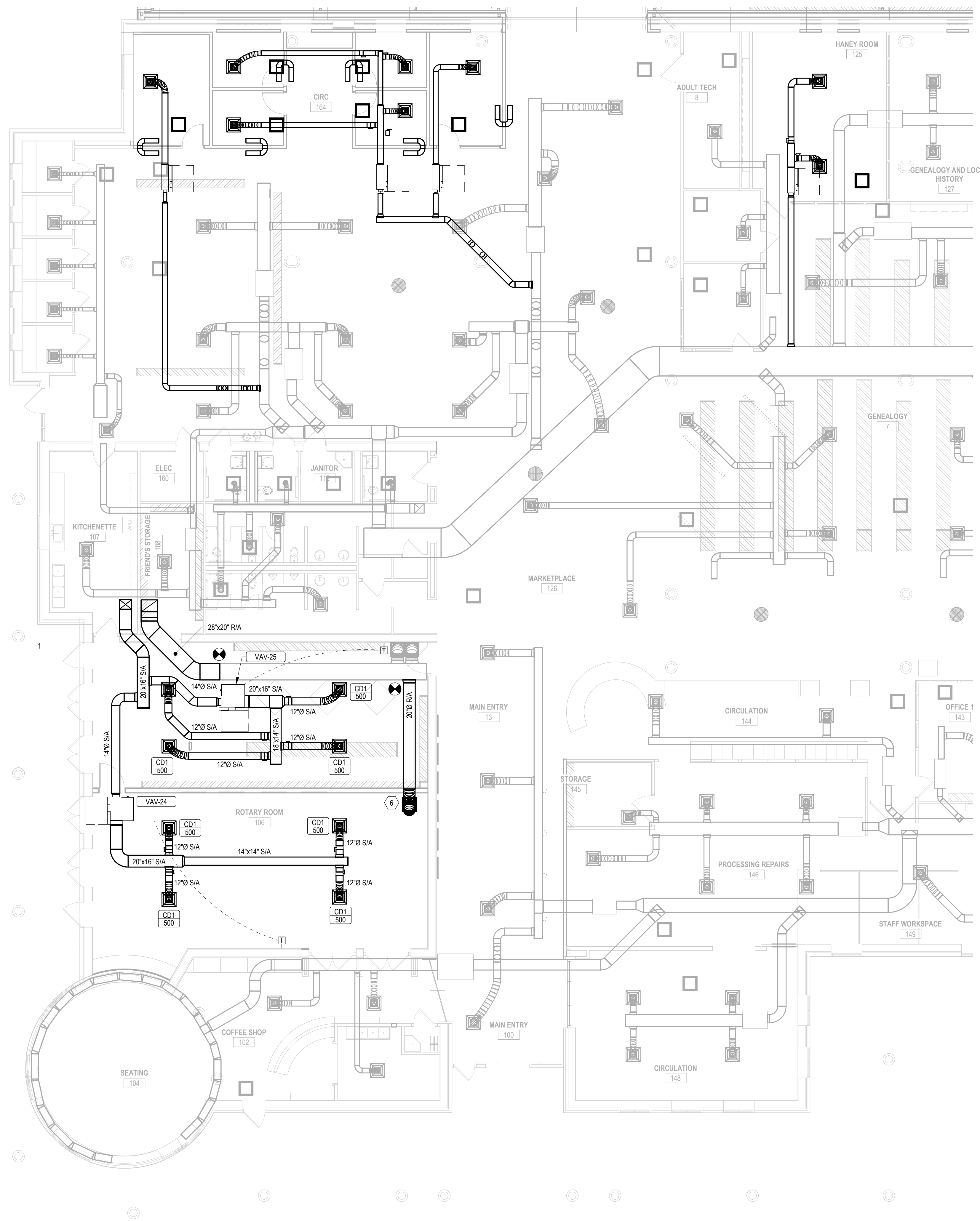
MEP Engineer

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- KEYNOTES**
- EXISTING AIR DEVICE TO BE RELOCATED IN NEW CEILING.
 - NEW MAX CFM OF EXISTING VAV BOX TO BE 160 CFM. BALANCE EXISTING AIR DEVICES SERVED FROM THIS VAV BOX TO 375 CFM EACH.
 - NEW MAX CFM OF EXISTING VAV BOX TO BE 1000 CFM. BALANCE EXISTING AIR DEVICES SERVED FROM THIS VAV BOX TO 800 CFM EACH.
 - NEW MAX CFM OF EXISTING VAV BOX TO BE 1500 CFM. BALANCE EXISTING AIR DEVICES SERVED FROM THIS VAV BOX TO 500 CFM EACH.
 - EXISTING AIR DEVICE TO REMAIN, REBALANCE TO 450 CFM.
 - CONNECT NEW AIR DEVICE AND BRANCH DUCTWORK TO EXISTING TRUNK DUCT. BALANCE NEW AIR DEVICE TO 1800 CFM.
 - EXISTING THERMOSTAT TO REMAIN.

- NOTES**
- ALL DUCTWORK AND AIR DEVICES SHOWN HALF TONE IS EXISTING TO REMAIN.
 - SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR DEVICE LAYOUTS. NOTIFY ARCH OF ANY DISCREPANCIES.



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 Registered Professional Engineer
 No. 19299
 License No. 19299

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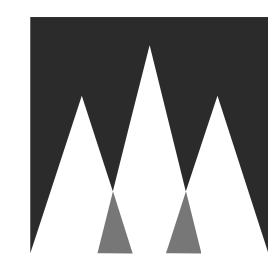
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1/18/2023	1/18/2023	ADDENDUM #1
1/19/2023	1/19/2023	ADDENDUM #2

1 MECHANICAL PLAN - EXISTING WEST - BID ALT. #3
 M110 1/8" = 1'-0"

**MECHANICAL PLAN -
 EXISTING WEST - BID
 ALT #3**

M110



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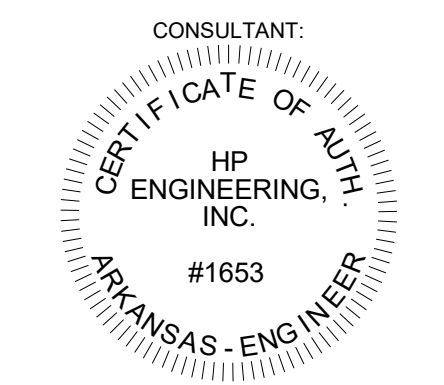
Structural Engineer

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MEP Engineer

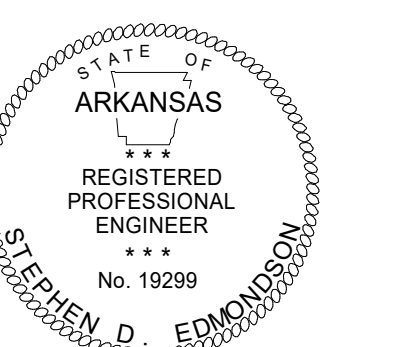
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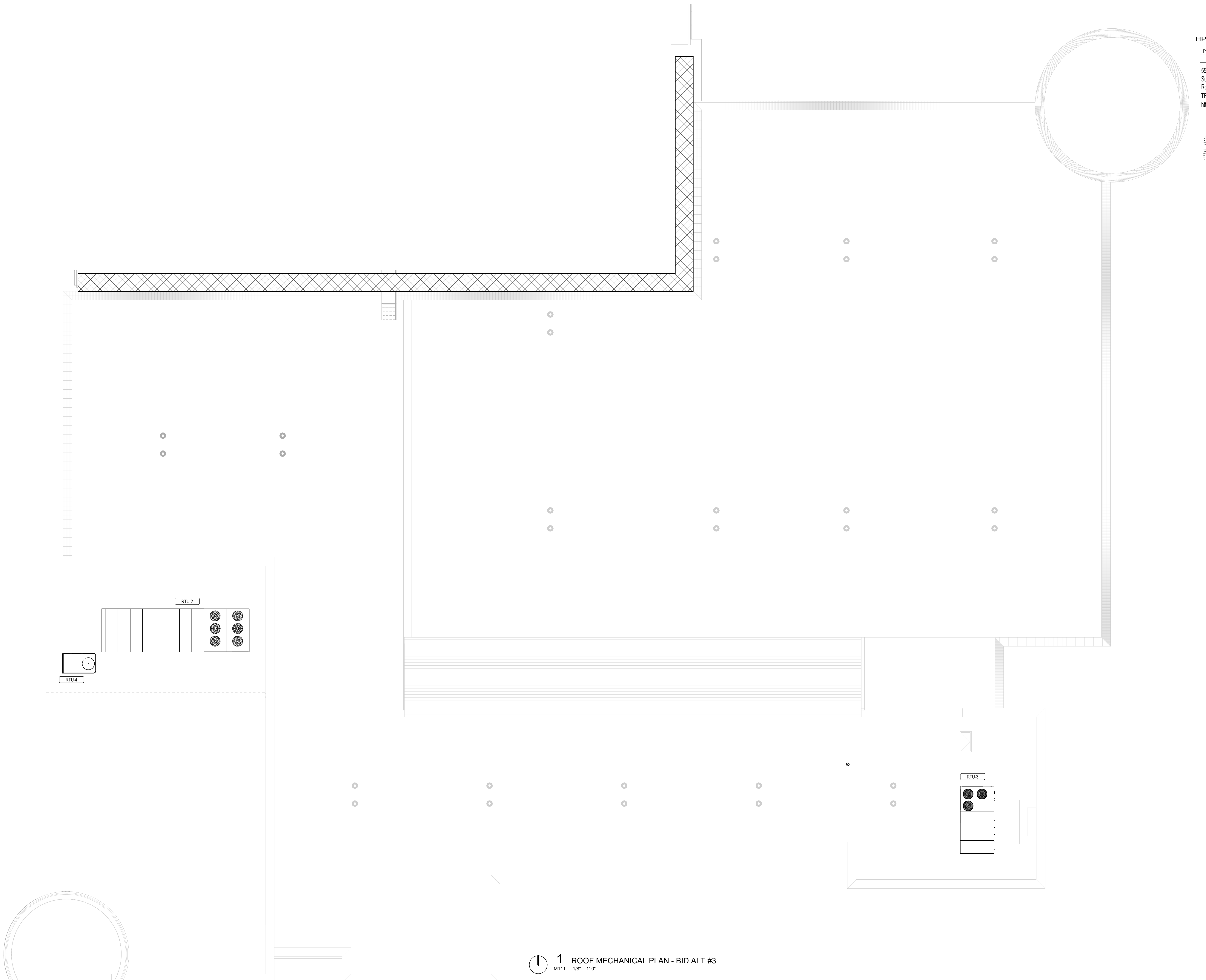
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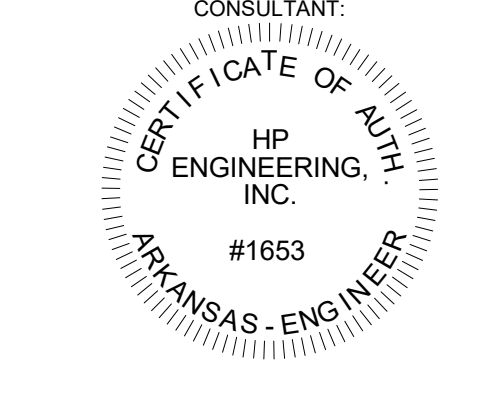
**MECHANICAL ROOF
PLAN - BID ALT #3**

M111

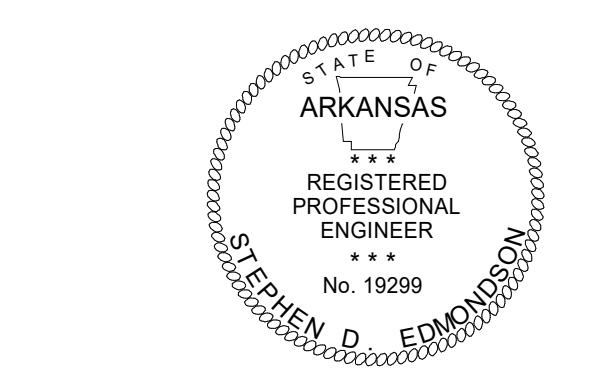
1 ROOF MECHANICAL PLAN - BID ALT #3
M111 1/8" = 1'-0"



HP Engineering, Inc. 1/19/2023 11:24 AM
Autodesk Revit 2022.2.1 (64-bit) - Bentonville Public Library Expansion - Mechanical - Roof - Bid Alt #3



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Bentonville, AR 72712



Signature: Stephen Edmondson
Print Name: Stephen Edmondson
Date: 03-20-2023 License No.: 19299

Table with 2 columns: Mark Date, Description. Includes dates from 12/10/2021 to 3/22/2023 and descriptions like 'SCHEMATIC DESIGN PRICING', 'DD V ELECTION B', etc.

BID ALT #3 - ROOFTOP UNIT SCHEDULE. Table with columns: ID, MANUFACTURER, MODEL NO., ARRANGEMENT, SUPPLY AIRFLOW, AIRFLOW, DCV, ESP, QTY, POWER, NOMINAL CAP, TOTAL, SENSIBLE, EAT(1b), EAT(2b), LAT(1b), LAT(2b), INCLUDE ECONOMIZER, GAS BURNER, FUEL TYPE, EAT(1b), EAT(2b), LAT(1b), LAT(2b), NUMBER OF COMPRESSORS, SUMMER AMBIENT DBT, EER, UNIT WEIGHT, VOLT, PH, MCA, MOCP, NOTES.

BID ALT #3 - FAN POWERED VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE. Table with columns: ID, MANUFACTURER, MODEL NO., NECK SIZE, TYPE, PRIMARY AIRFLOW, FAN, MOTOR, HEATING COIL, HEATING ELEMENT, UNIT WEIGHT, FLA, MCA, MOCP, VOLT, PH.

WALL MOUNTED HEAT PUMP SCHEDULE. Table with columns: ID, MANUFACTURER, MODEL NO., TYPE, DESIGN AIRFLOW, TONNAGE, COOLING CAPACITY, HEATING CAPACITY, UNIT WEIGHT, MCA, MOCP, VOLT, PH.

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE. Table with columns: ID, DESCRIPTION, MANUFACTURER, MODEL, FACE SIZE, NECK SIZE, HEIGHT, INSTALLATION, SPECIFICATION.

MECHANICAL PIPING & INSULATION SCHEDULE. Table with columns: SERVICE, PIPING TYPE, INSULATION TYPE, INSULATION THICKNESS.

MECHANICAL DUCTWORK & INSULATION SCHEDULE. Table with columns: SERVICE, DUCT TYPE, INSULATION TYPE, INSULATION THICKNESS.

ROOFTOP UNIT SCHEDULE. Table with columns: ID, MANUFACTURER, MODEL NO., ARRANGEMENT, SUPPLY AIRFLOW, AIRFLOW, DCV, FAN HP, AIRFLOW, ESP, QTY, POWER, NOMINAL CAP, TOTAL, SENSIBLE, EAT(1b), EAT(2b), LAT(1b), LAT(2b), INCLUDE ECONOMIZER, GAS BURNER, FUEL TYPE, EAT(1b), EAT(2b), LAT(1b), LAT(2b), COMPRESSOR, NUMBER OF COMPRESSORS, MODULATING GAS HEAT, SUMMER AMBIENT DBT, WINTER AMBIENT DBT, EER, UNIT WEIGHT, VOLT, PH, MCA, MOCP.

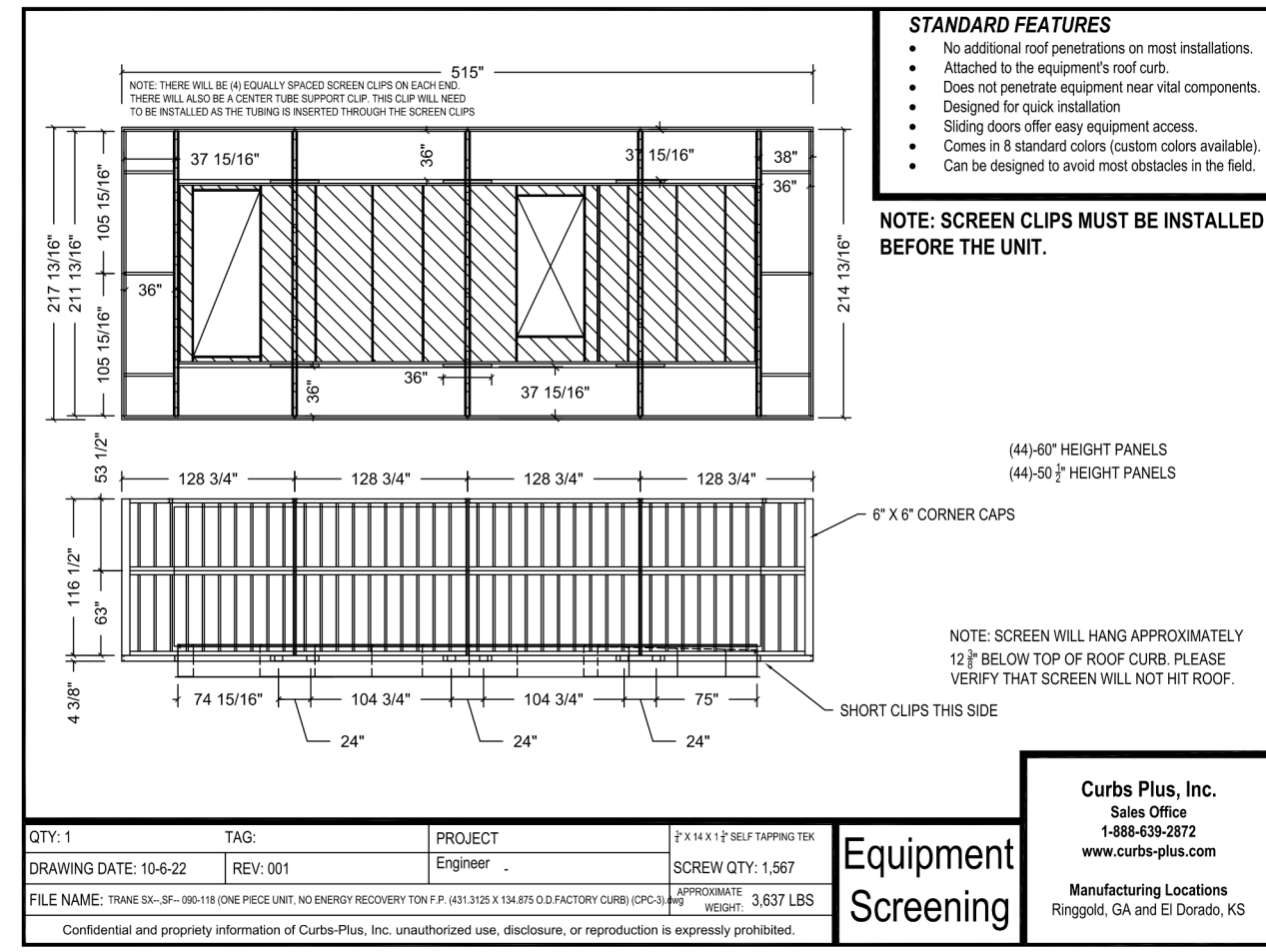
EXHAUST FAN SCHEDULE. Table with columns: ID, MANUFACTURER, MODEL NO., TYPE, AIRFLOW, VELOCITY, PRESS, DRIVE TYPE, MOTOR, SOUND PRESS, UNIT WEIGHT, VOLT, PH, REMARKS, NOTES.

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE. Table with columns: ID, MANUFACTURER, MODEL NO., NECK SIZE, TYPE, PRIMARY AIRFLOW, EXTERIOR ZONE, HEATING COIL, HEATING ELEMENT, UNIT WEIGHT, FLA, MCA, MOCP, VOLT, PH.

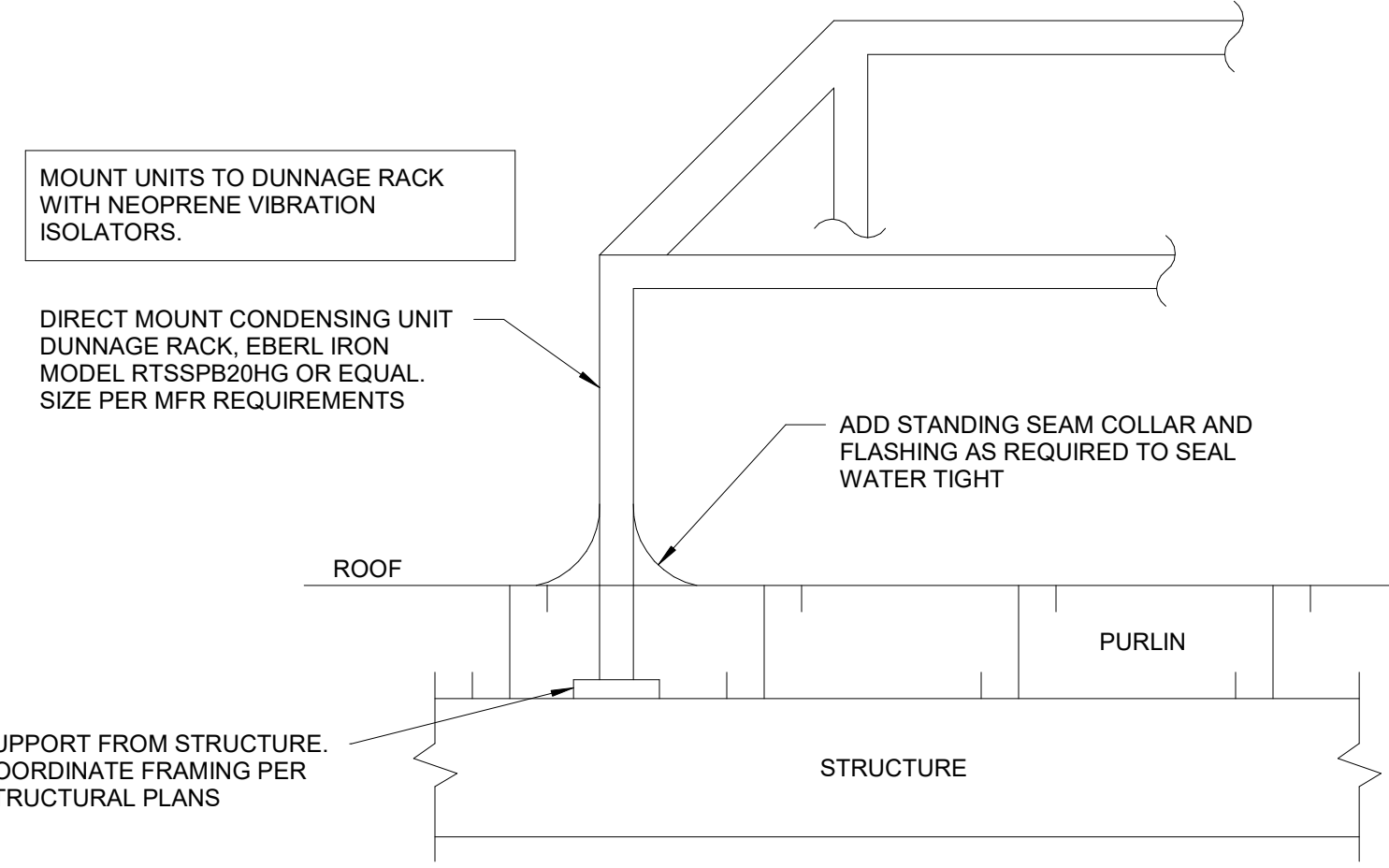
LINEAR SLOT DIFFUSER SCHEDULE. Table with columns: ID, DESCRIPTION, MANUFACTURER, MODEL, MATERIAL, FINISH, SYSTEM, WIDTH, QTY, NOM LENGTH, INSULATED, LOW PROFILE, SIZE, Oval, Round, THROW SYMBO, BORDER TYPE, DAMPER DESCRIPTION, SPECIFICATION.

FAN POWERED VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE. Table with columns: ID, MANUFACTURER, MODEL NO., NECK SIZE, TYPE, PRIMARY AIRFLOW, AIRFLOW, PRESS, MOTOR, EXTERIOR ZONE, CAP, DESIGN FLOW, EAT(1b), EAT(2b), QTY, POWER, SCR, NC, UNIT WEIGHT, FLA, MCA, MOCP, VOLT, PH.

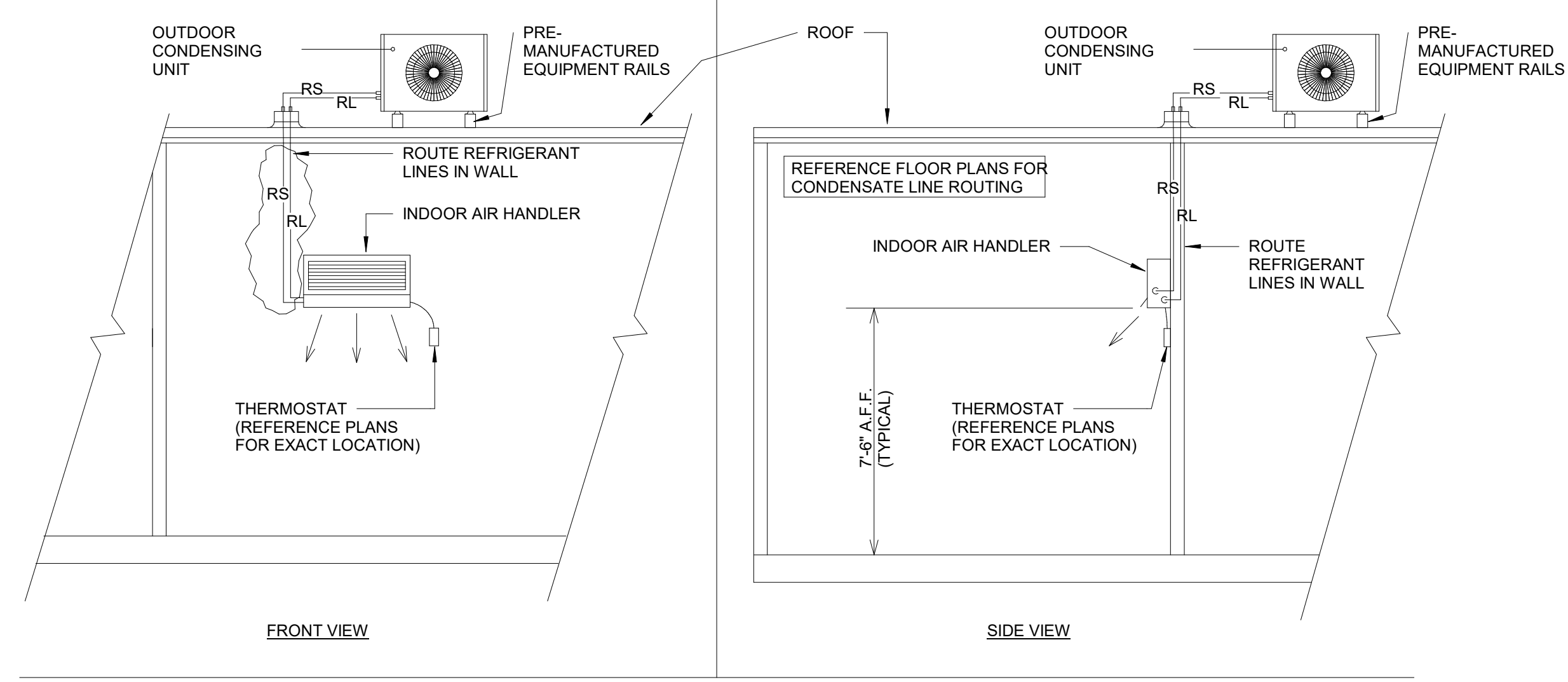
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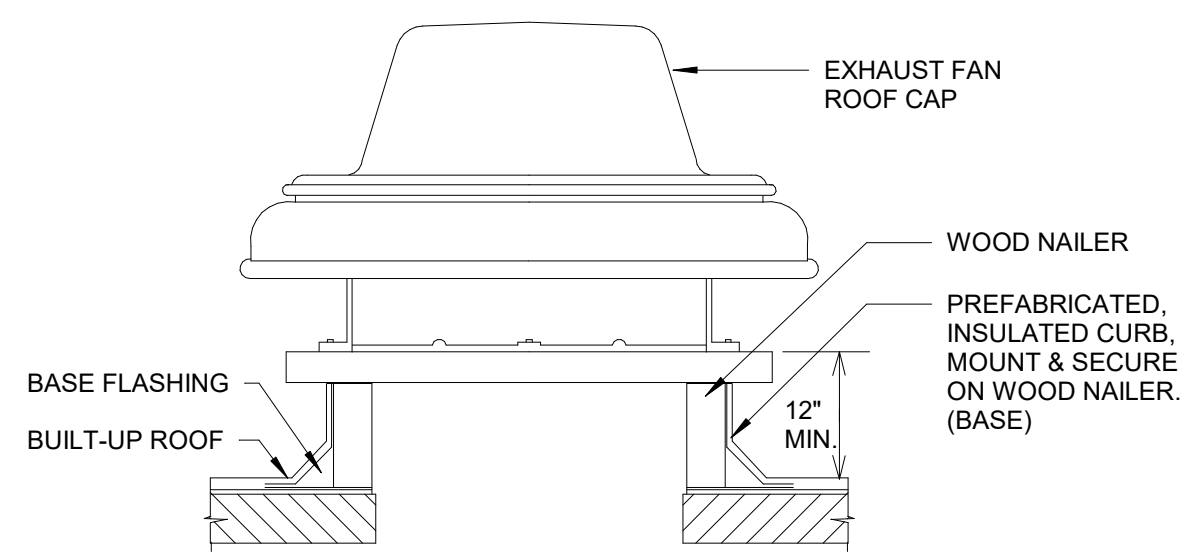
13 RTU-1 CURB SCREENING
M202 SCALE: NOT TO SCALE



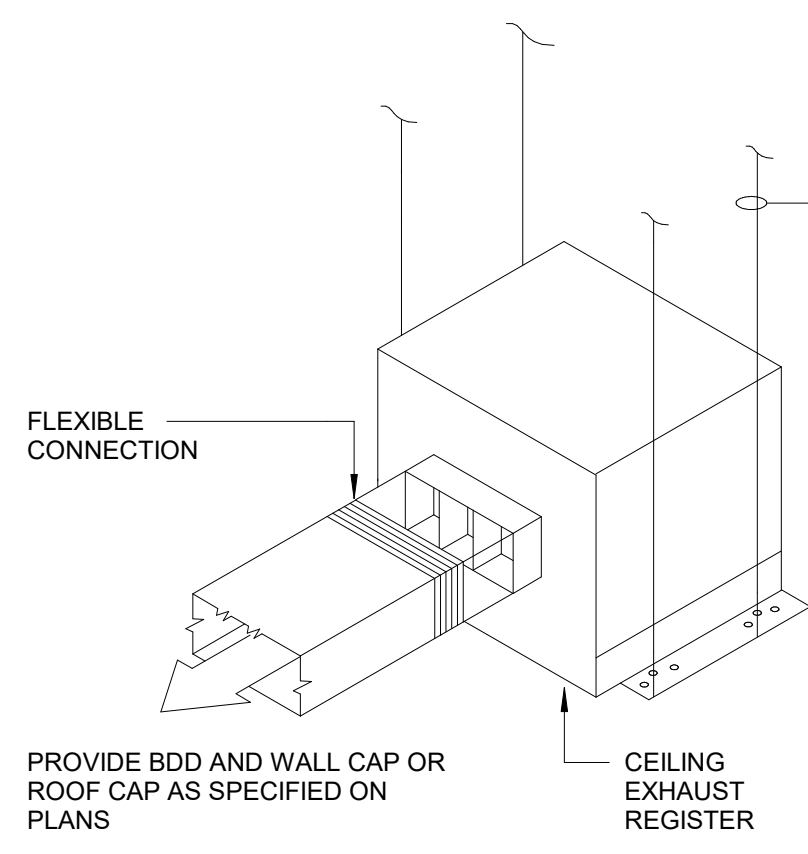
12 ROOF TOP CONDENSOR MOUNTING
M202 SCALE: N.T.S.



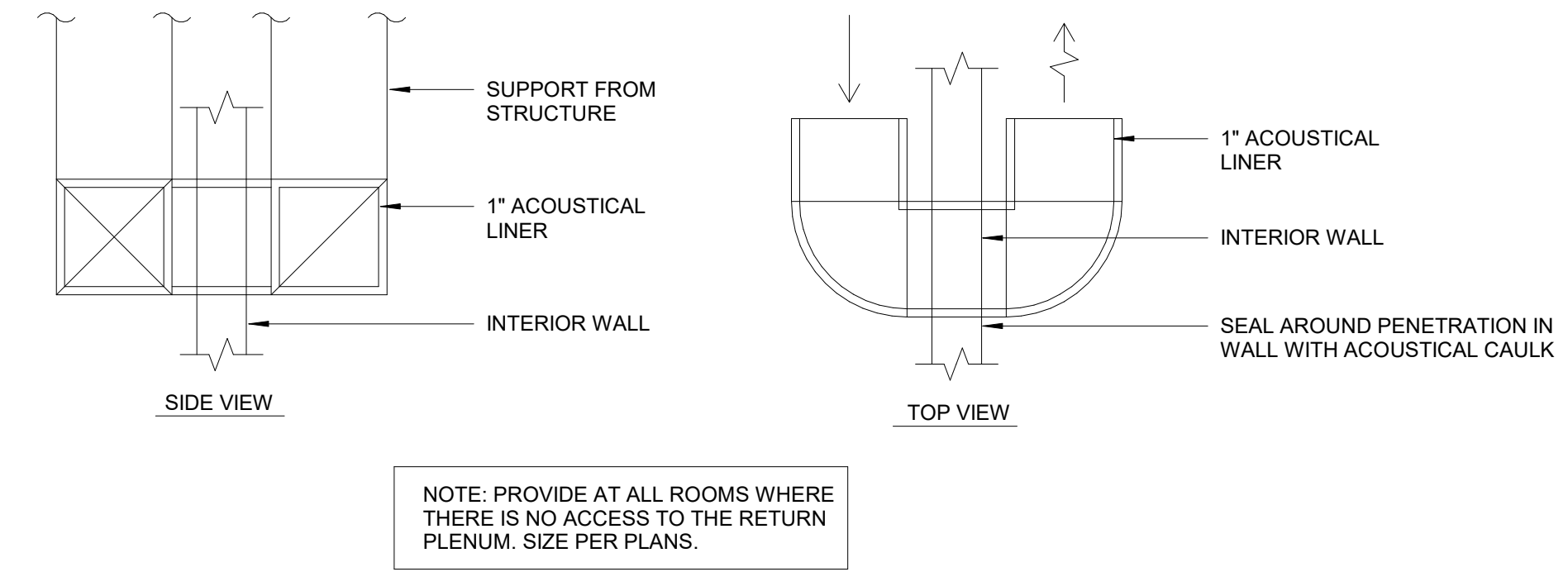
11 DUCTLESS SPLIT SYSTEM WITH ROOF-MOUNTED CONDENSING UNIT
M202 SCALE: N.T.S.



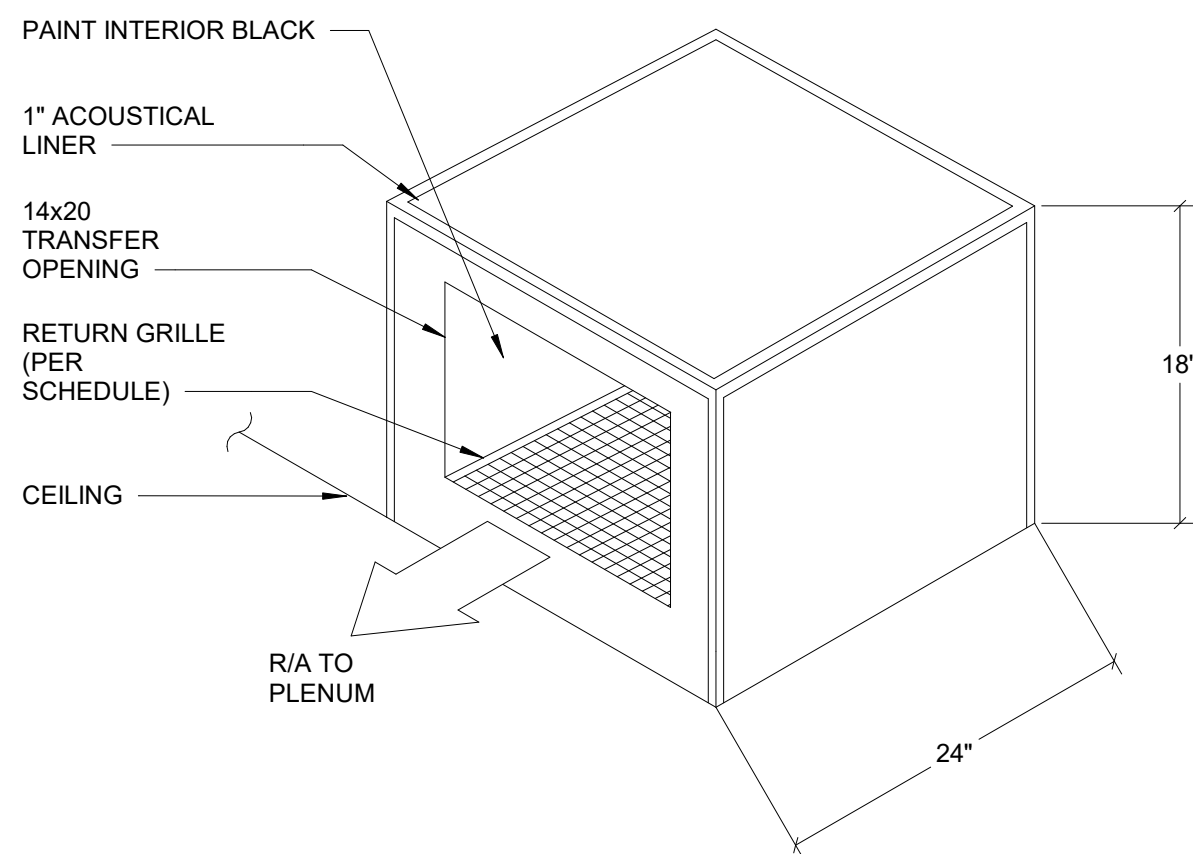
10 EXHAUST FAN ROOF CAP DETAIL
M202 SCALE: N.T.S.



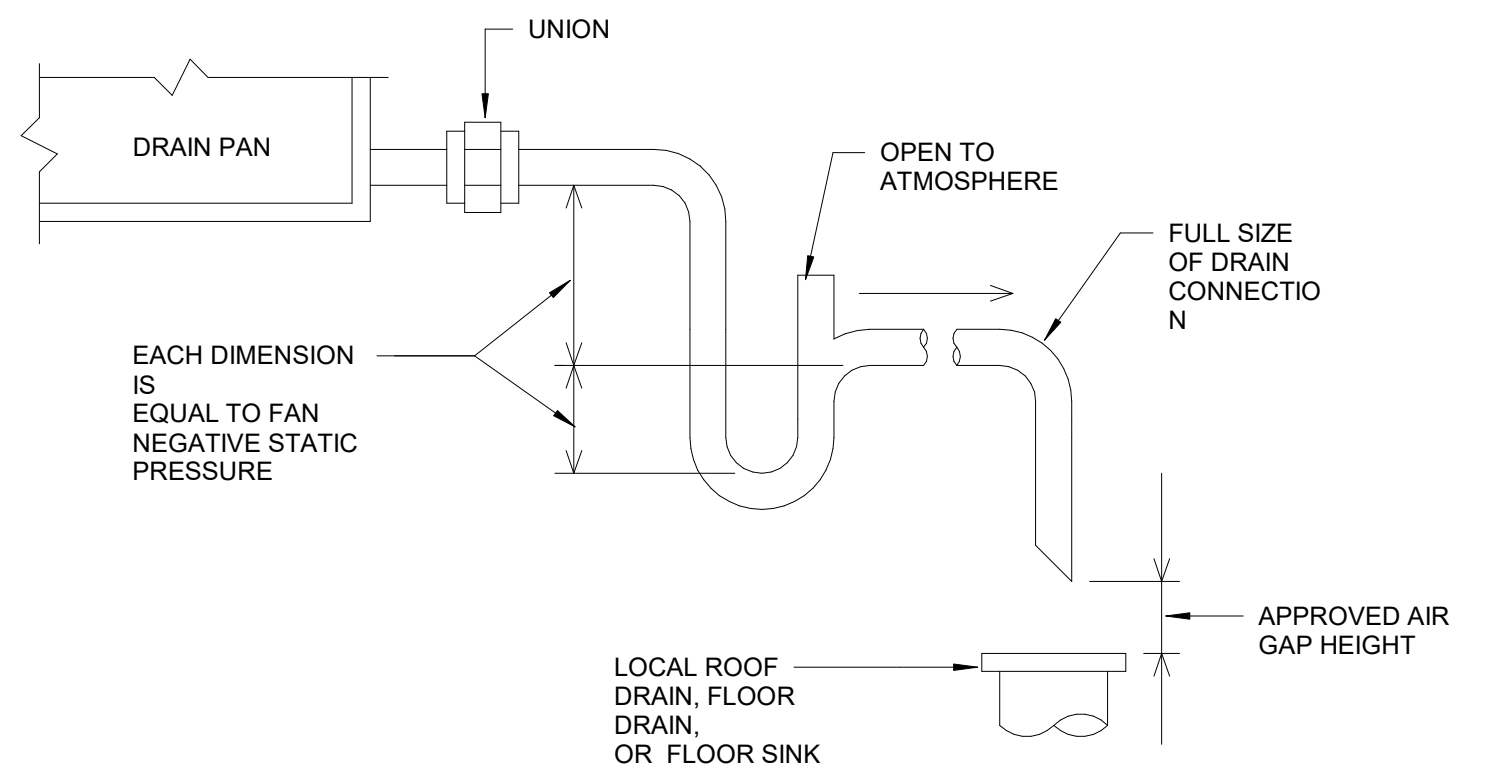
9 CEILING EXHAUST FAN DETAIL
M202 SCALE: N.T.S.



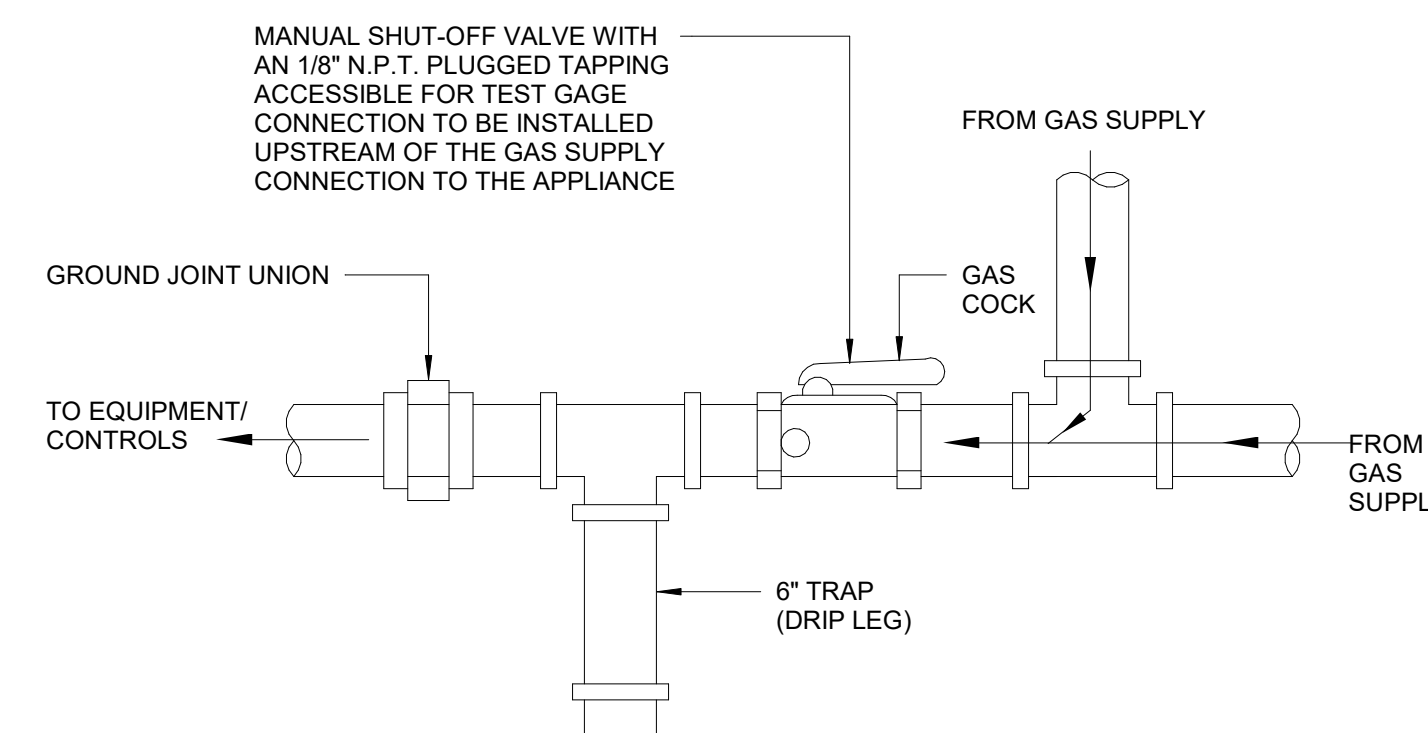
8 LINED ACOUSTICAL BOOT DETAIL
M202 SCALE: N.T.S.



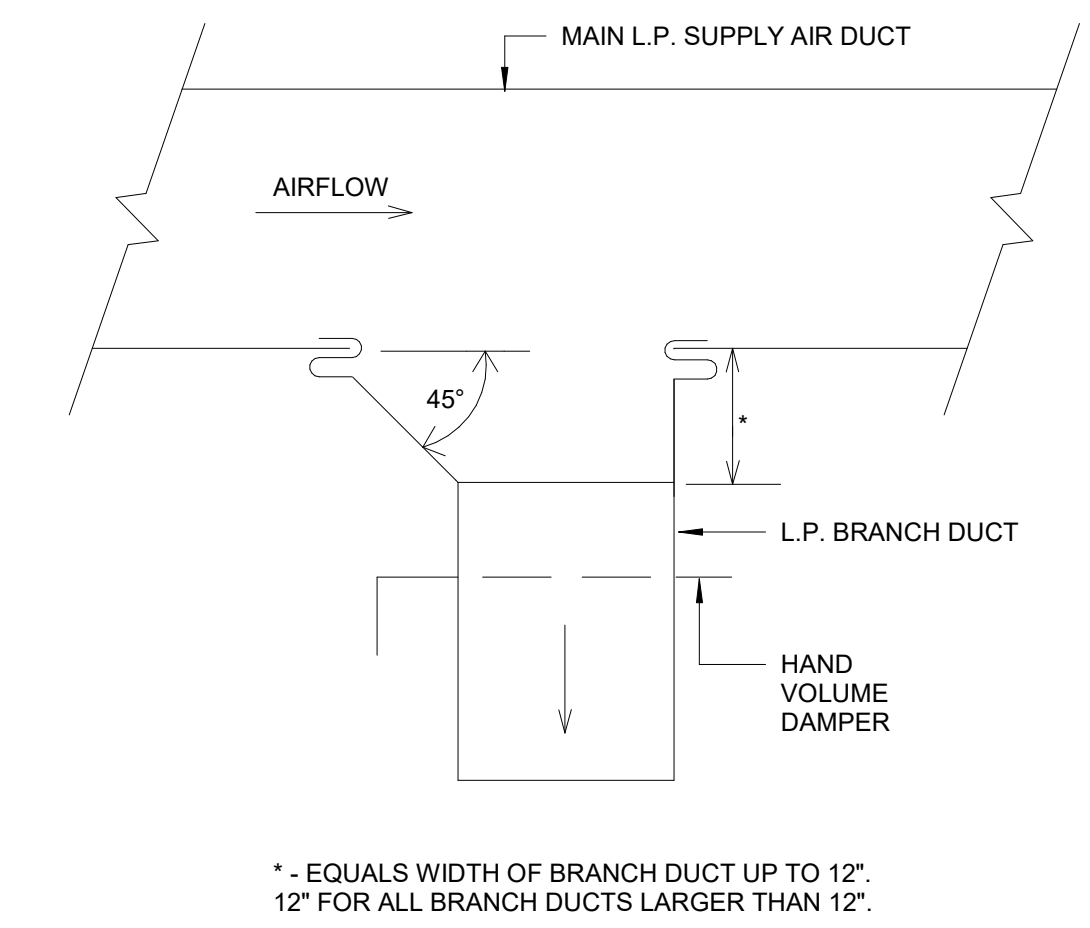
7 ACOUSTICAL CAP AT RETURN GRILLE DETAIL
M202 SCALE: N.T.S.



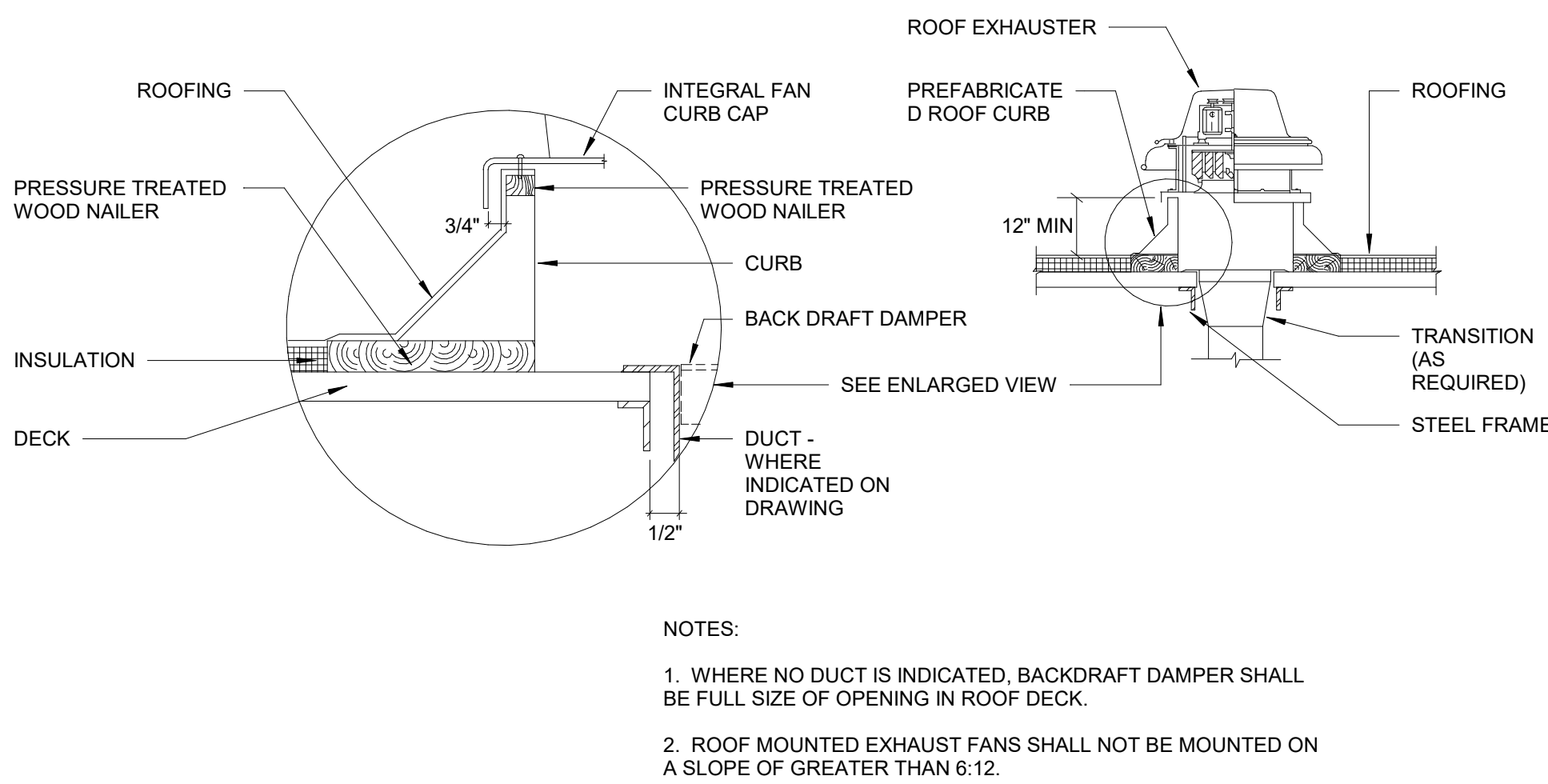
6 CONDENSATE DRAIN DETAIL
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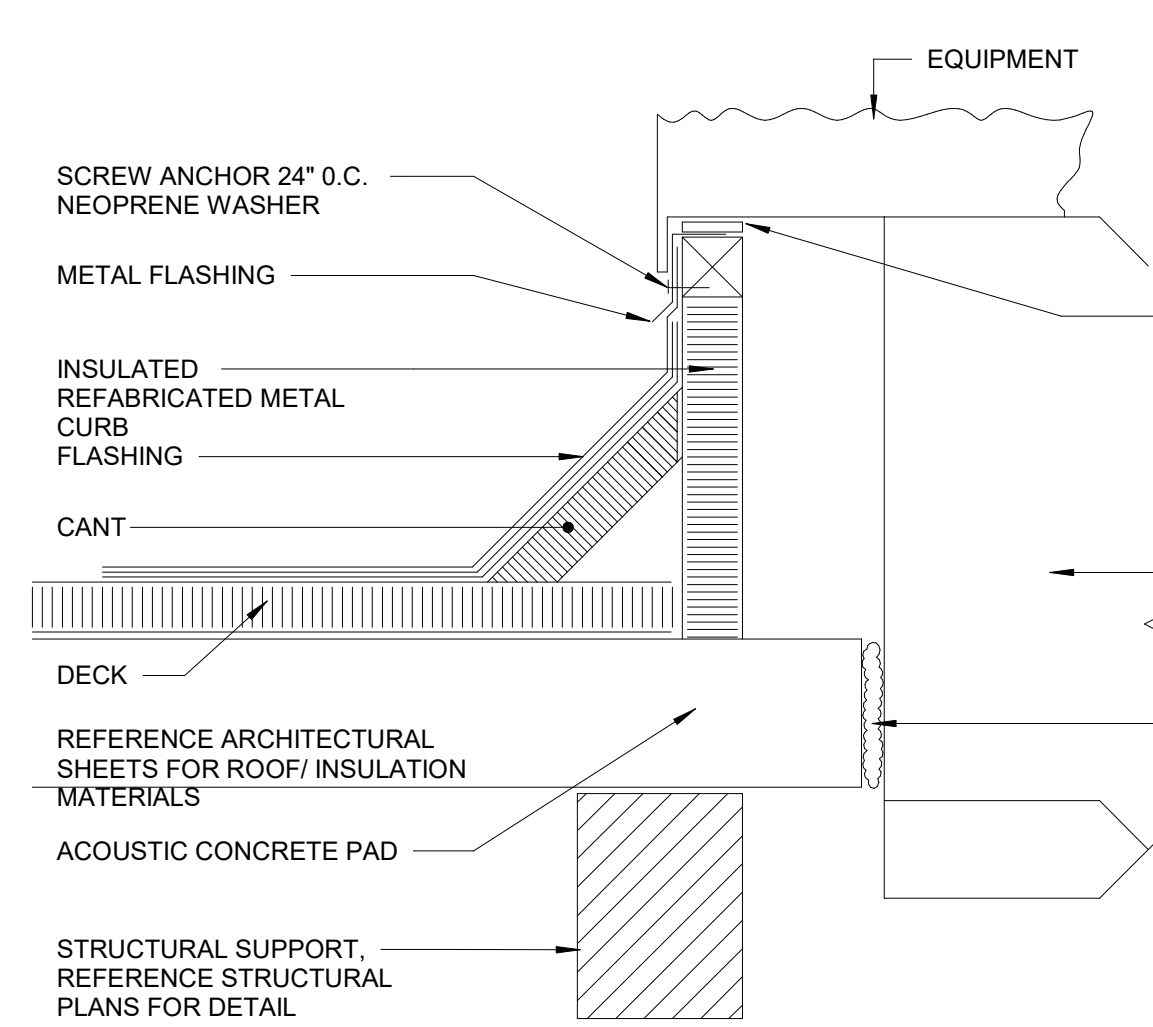
5 GAS CONNECTION TO EQUIPMENT
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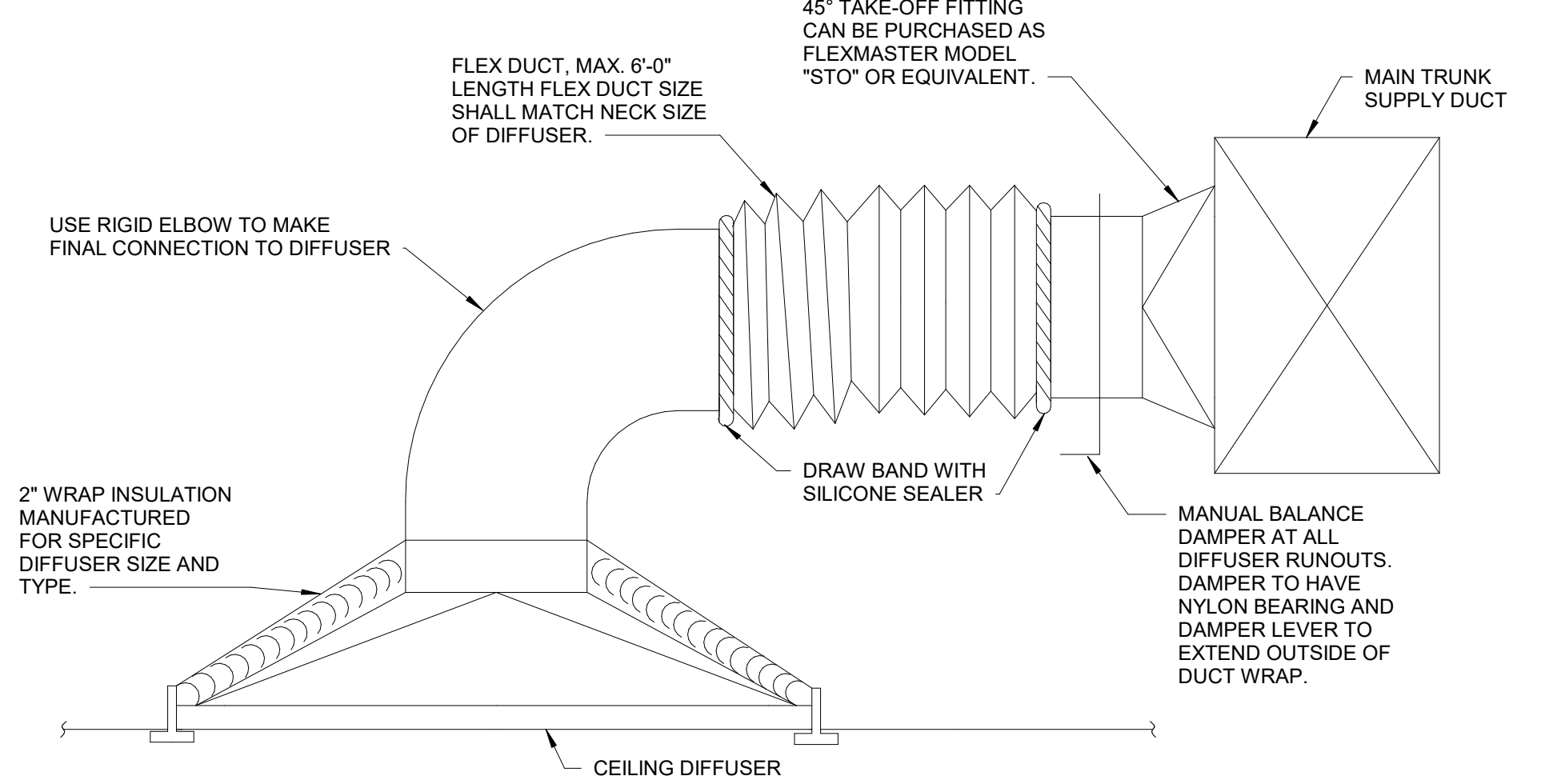
4 TYPICAL SUPPLY AIR BRANCH DUCT TAKE-OFF
M202 SCALE: N.T.S.



3 ROOF MOUNTED EXHAUST FAN DETAIL
M202 SCALE: N.T.S.



2 ROOF TOP EQUIPMENT CURB DETAIL
M202 SCALE: N.T.S.



1 TYPICAL DIFFUSER CONNECTION WITH INSULATION
M202 SCALE: N.T.S.

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Project No. 2021027

**Bentonville Public Library
Expansion**
405 S Main Street
Bentonville, AR 72712

Engineer Seal

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
STEPHEN D. EDMONDSON
No. 19299

Signature: *Stephen Edmondson*

Print Name: Stephen Edmondson

Date: 01-18-2023 License No.: 19299

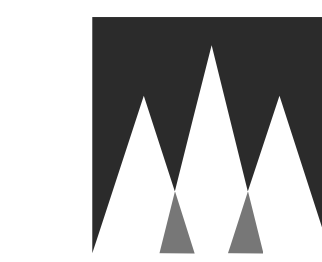
BID SET

ISSUE / REVISION

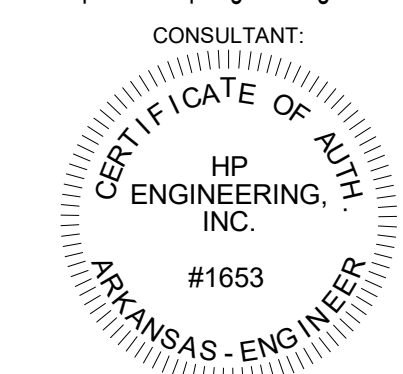
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	10/13/2022	PRE APP SET
	10/28/2022	LARGE SCALE DEVELOPMENT SUBMITTAL
	10/31/2022	CD PRICING SET
	11/14/2022	SECOND LSD SUBMITTAL
	11/28/2022	THIRD LSD SUBMITTAL
	12/21/2022	PERMIT SET
	1/8/2023	BID SET
	1/18/2023	ADDENDUM #1

MECHANICAL DETAILS

M202



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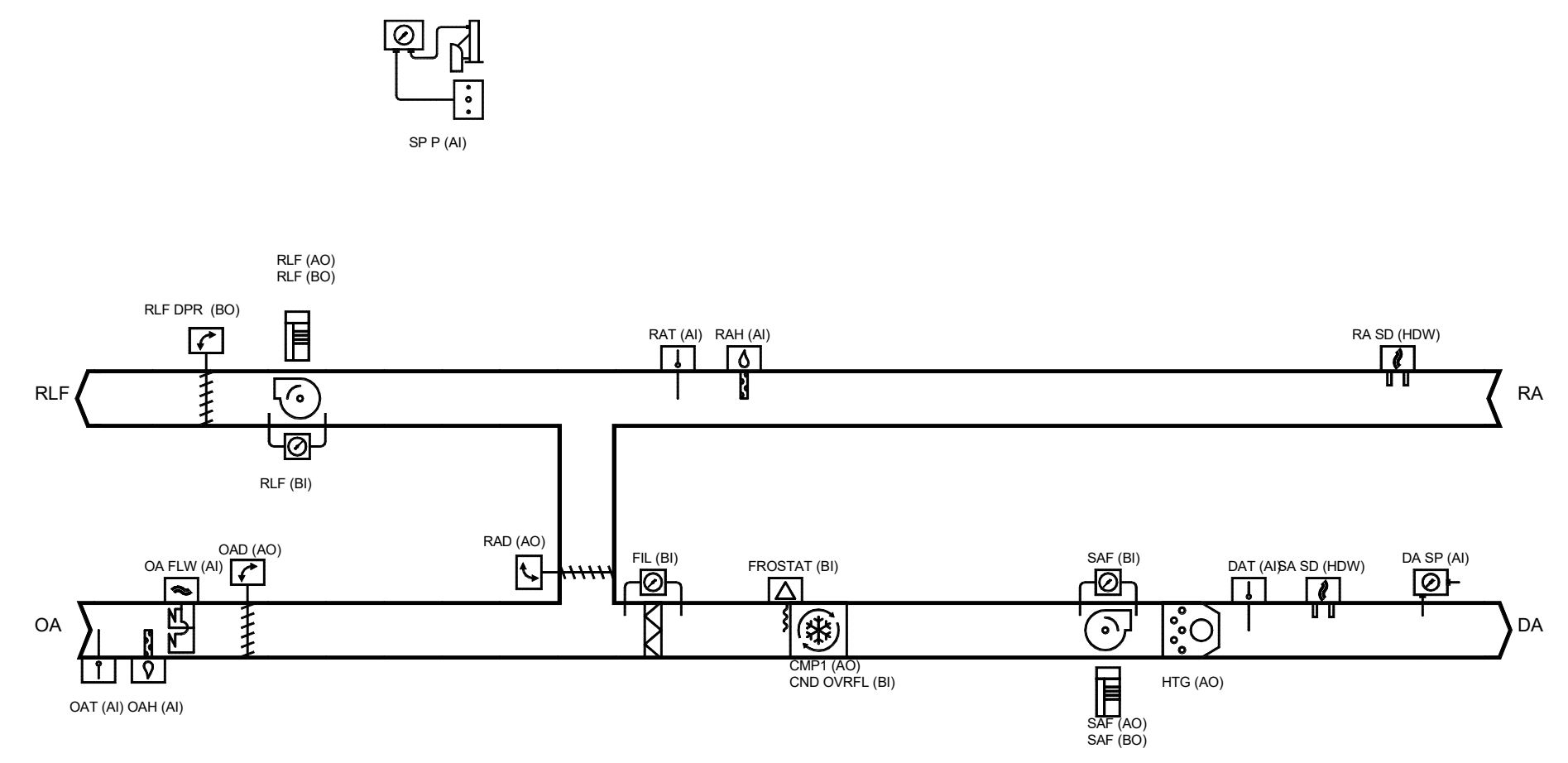
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Flow Diagram: EXPANSION PACKAGED RTU



Sequence of Operation: EXPANSION PACKAGED RTU

Building Automation System Interface:
 The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up/Pre-Cool, Occupied/Unoccupied and Heat/Cool modes. The BAS shall also send the discharge air temperature setpoint and the duct static pressure setpoint. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints.

Occupied:
 During occupied periods, the supply fan shall run continuously and the mixed air dampers shall open to maintain minimum ventilation requirements. The unit controller shall control the supply fan speed to maintain the current supply duct static pressure setpoint (adj.). The gas heat shall be enabled and controlled to maintain the active discharge air temperature setpoint. If economizing is enabled, the outdoor air or mixed air dampers shall modulate to maintain the discharge air temperature setpoint and the relief air damper shall track the mixed air dampers. If the discharge air temperature sensor fails, the DX cooling shall be disabled, the gas heat shall be disabled, and an alarm shall annunciate at the BAS.

Unoccupied:
 When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall be commanded on, the outside air damper shall close and the gas heat shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop and the gas heat shall be disabled. When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall be commanded on, the outside air damper shall open if economizing is enabled and remain closed if economizing is disabled and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F minus the Unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop, the DX cooling shall be disabled and the outside air damper shall close.

Occupied Bypass:
 The BAS shall monitor the status of the ON and CANCEL buttons of the space temperature sensors. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Heat/Cool Mode:
COOLING: The unit controller shall use the discharge air temperature sensor and discharge air temperature cooling setpoint to determine when to initiate requests for cooling. Discharge air setpoint shall be maintained by controlling the cooling as required.
HEATING: The unit controller shall use the discharge air temperature sensor and discharge air temperature heating setpoint to determine when to initiate requests for heating. Discharge air setpoint shall be maintained by controlling the heating as required. During Unoccupied Heating or Morning Warm-Up Mode, the unit heat request shall be communicated to the system VAVs prior to commencing heating operation to allow VAV units to open. The variable speed drive shall be commanded to 100% and the heat shall be staged on and off to satisfy the zone temperature setpoint.

Discharge Air Temperature Reset Control:
 The discharge air temperature setpoint shall be reset to the optimal setpoint communicated by the BAS. The BAS shall reset the discharge air temperature setpoint based on the current outside air temperature, but shall override this reset function and return the discharge air temperature setpoint to 55.0 deg. F (adj.) if more than two (adj.) zones begin to overheat. Also, the BAS shall override this reset function whenever outdoor dew point is higher than 60.0 deg. F (adj.) or indoor humidity is higher than 60% RH (adj.). If the discharge air temperature drops below the minimum limit, a low temperature alarm shall annunciate and the unit shall shut down. If the discharge air temperature rises above the maximum limit, a high temperature alarm shall annunciate.

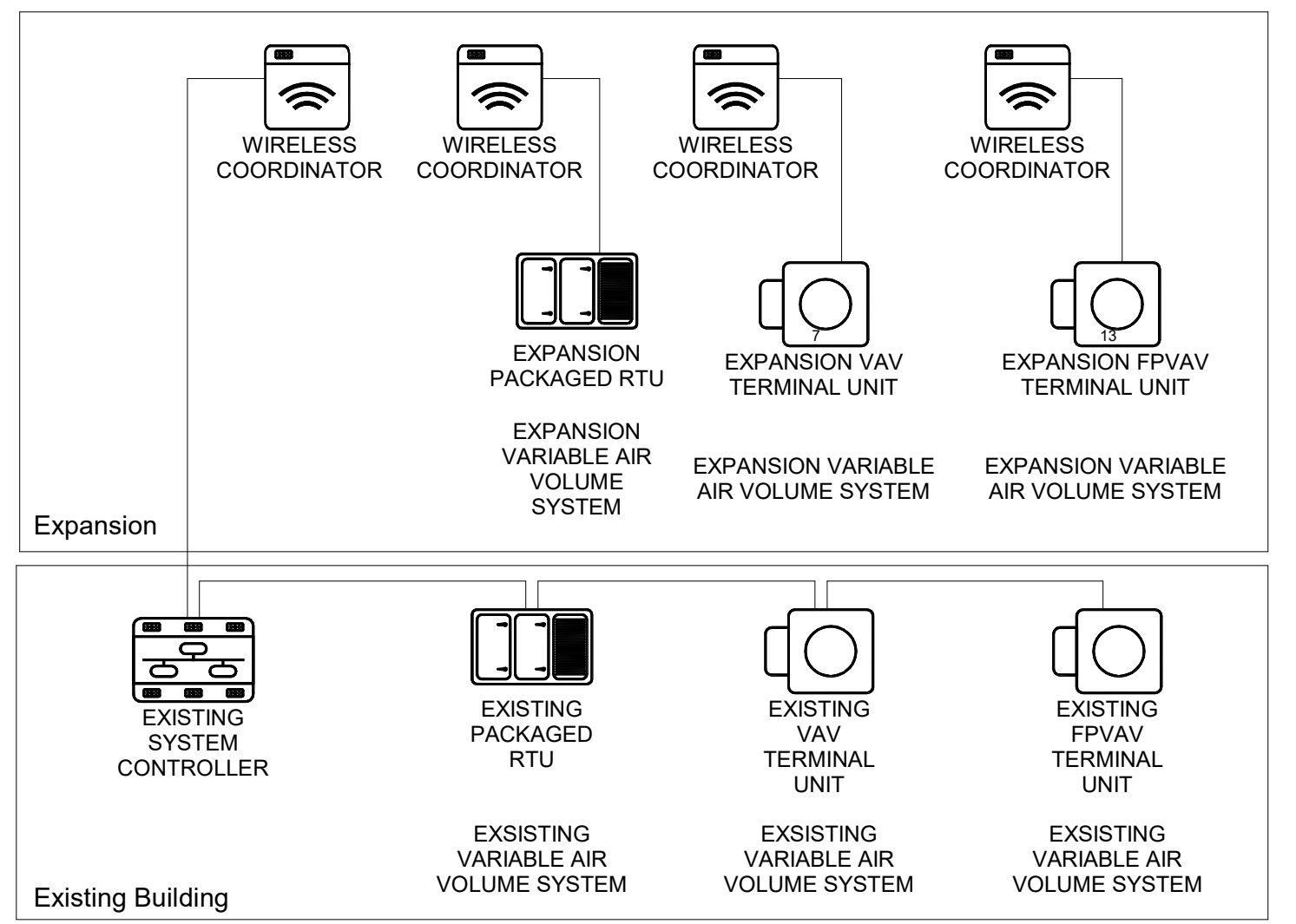
Supply Fan:
 The supply fan shall be enabled while in the occupied mode and cycled on during the unoccupied mode.

Supply Duct Static Pressure Control:
 During the occupied mode the unit controller shall modulate the output to the variable speed drive as required to maintain the supply duct static pressure setpoint of 1.5 inches of W.C. (adj.). If the supply duct static pressure falls below 1.3 inches of W.C. (adj.) the unit controller shall increase the output to the variable speed drive to maintain setpoint. If the supply duct static pressure rises above 1.7 inches of W.C. (adj.) the unit controller shall decrease the output to the variable speed drive to maintain setpoint. Upon a call for heating or cooling in the unoccupied mode the unit controller shall modulate the speed of the variable speed drive to 100%.

Static Pressure High Limit:
 If for any reason the supply air pressure exceeds the supply air pressure high limit, the supply fan shall shut down. The unit shall be allowed to restart three times after a 15 minute off period. If the overpressurization condition occurs on the fourth restart, the unit shall shut down and a manual reset diagnostic is displayed at the remote panel and/or the BAS system.

Relief Air and Building Pressure Control:
 A differential pressure transducer shall actively monitor the difference in pressure between the building (indoors) and outdoors. If the building pressure increases above the differential pressure setpoint, the unit controller shall open the relief air damper, turn on the relief air fan and modulate the relief air fan variable speed drive to control building pressure to the differential pressure setpoint. If the building pressure decreases below the differential pressure setpoint, the associated controller shall deactivate the relief air fan variable speed drive.
 A differential pressure switch shall monitor the differential pressure across the relief air fan. If the switch is detected to be open for 40 consecutive seconds after a request for relief fan operation a fan failure alarm shall annunciate at the BAS and the relief fan shall stop. A manual reset shall be required.

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Optimal Start:
 The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Morning Warm-Up Mode:
 During optimal start, if the average space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and fans. The outside air damper shall remain closed. When the space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

Pre-Cool Mode:
 During optimal start, if the average space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the fan and cooling or economizer. The outside air damper shall remain closed, unless economizing. When the space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Optimal Stop:
 The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint. Outside air damper shall remain enabled to provide minimum ventilation.

Economizer:
ENABLE (Comparative Enthalpy): Outside air (OA) enthalpy shall be compared with Return air (RA) enthalpy point. The economizer shall enable when OA enthalpy is less than RA enthalpy - 2.0 BTU/LB. The economizer shall disable when OA enthalpy is greater than RA enthalpy.
OPERATION: The supply air sensor shall measure the dry bulb temperature of the air leaving the evaporator coil while economizing. When economizing is enabled and the unit is operating in the cooling mode, the economizer damper shall be modulated between its minimum position and 100% to maintain the discharge air temperature setpoint. The economizer damper shall modulate toward minimum position in the event the discharge air temperature falls below the discharge low limit temperature setpoint. Compressors shall be delayed from operating until the economizer has opened to 100%.

Ventilation Control:
 When in the occupied mode, the flow-measuring outdoor-air and damper shall modulate to maintain the current ventilation airflow setpoint. The ventilation airflow setpoint shall be reset to the optimal ventilation setpoint communicated by the BAS. The BAS shall reset the ventilation setpoint based on the current ventilation needs of the VAV terminals.

Filter Status:
 A differential pressure switch shall monitor the differential pressure across the filter(s) when the fan is running. If the switch closes during normal operation a dirty filter alarm shall annunciate at the BAS.

Smoke Detector Shutdown:
 The unit shall shut down in response to a signal from the smoke detector indicating the presence of smoke. The smoke detector shall be interlocked to the unit through the dry contacts of the smoke detector. A manual reset of the smoke detector shall be required to restart the unit.

Condensate Overflow Shutdown:
 The unit shall shut down in response to a signal from the condensate overflow sensor. The sensor shall be interlocked to the unit cooling controller for immediate shutdown of cooling.

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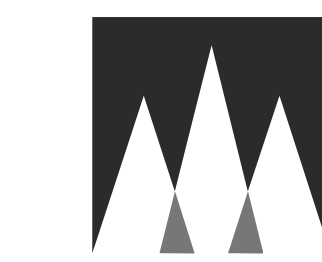
Engineer Seal

Signature: *Stephen D. Edmondson*
 Print Name: Stephen Edmondson
 Date: 01-06-2023 License No.: 19299

BID SET

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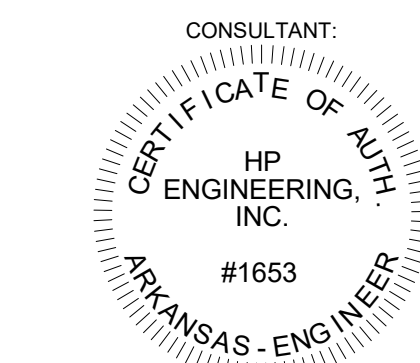
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	11/28/2022	THIRD LSD SUBMITTAL
	12/21/2022	PERMIT SET
	1/6/2023	BID SET



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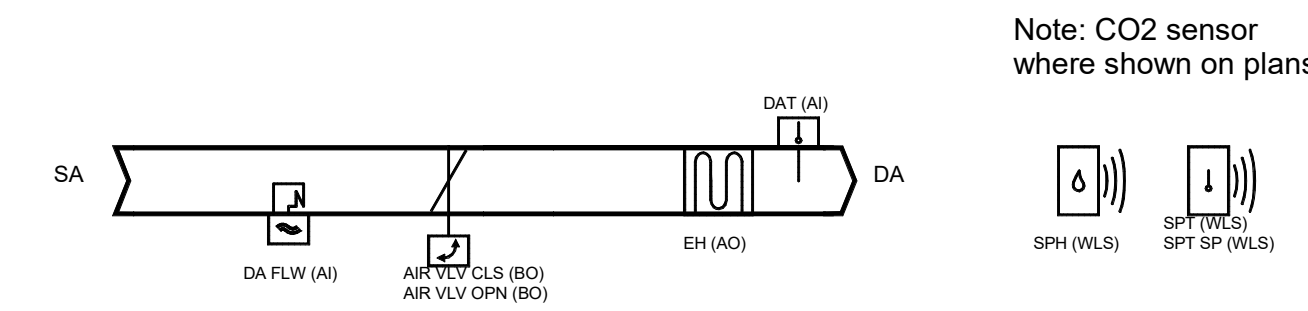
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Flow Diagram: EXPANSION VAV TERMINAL UNIT [QTY: 7]



Sequence of Operation: EXPANSION VAV TERMINAL UNIT [QTY: 7]

Building Automation System Interface:

The Building Automation System (BAS) shall send the controller Occupied, and Unoccupied commands. The BAS may also send a Heat/Cool mode, priority shutdown commands, space temperature and/or space temperature setpoint. If communication is lost with the BAS, the controller shall operate using its local setpoints.

Occupied:

Normal operating mode for occupied spaces or daytime operation. When the unit is in the occupied mode the VAV shall maintain the space temperature at the active occupied heating or cooling setpoint. Applicable ventilation and airflow setpoints shall be enforced. The occupied mode shall be the default mode of the VAV.

Unoccupied:

Normal operating mode for unoccupied spaces or nighttime operation. When the unit is in unoccupied mode the VAV controller shall maintain the space temperature at the stored unoccupied heating or cooling setpoint regardless of the presence of a hardwired or communicated setpoint. When the space temperature exceeds the active unoccupied setpoint the VAV shall modulate fully closed.

Occupied Bypass:

Mode used to temporarily place the unit into the occupied operation. Tenants shall be able to override the unoccupied mode from the space sensor. The override shall last for a maximum of 4 hours (adj.). The tenants shall be able to cancel the override from the space sensor at any time. During the override the unit shall operate in occupied mode.

Heat/Cool Mode:

The Heat/Cool mode shall be set by a communicated value or automatically by the VAV. In standalone or auto mode the VAV shall compare the primary air temperature with the configured auto changeover setpoint to determine if the air is "hot" or "cold". Heating mode implies the primary air temperature is hot. Cooling mode implies the primary air temperature is cold."

Heat/Cool Setpoint:

The space temperature setpoint shall be determined either by a local (e.g., thumbwheel) setpoint, the VAV default setpoint or a communicated value. The VAV shall use the locally stored default setpoints when neither a local setpoint nor communicated setpoint is present. If both a local setpoint and communicated setpoint exist, the VAV shall use the communicated value.

Cooling Mode:

When the unit is in cooling mode, the VAV controller shall maintain the space temperature at the active cooling setpoint by modulating the airflow between the active cooling minimum airflow setpoint to the maximum cooling airflow setpoint. The VAV shall use the measured space temperature and the active cooling setpoint to determine the requested cooling capacity of the unit. The outputs will be controlled based on the unit configuration and the requested cooling capacity. When in the Occupied Mode, the controller shall use the measured space temperature and the active cooling setpoint to determine the requested cooling capacity of the unit. The outputs shall be controlled based on the unit configuration and the requested cooling capacity.

Heating Mode:

When the unit is in heating mode, the VAV controller shall maintain the space temperature at the active heating setpoint by modulating the airflow between the active heating minimum airflow setpoint to the maximum heating airflow setpoint. The VAV controller shall use the measured space temperature and the active heating setpoint to determine the requested heating capacity of the unit. The outputs will be controlled based on the unit configuration and the requested heating capacity.

Local Reheat Control:

Reheat will only be allowed when the primary air temperature is 5.0 deg. F below the configured reheat enable setpoint of 70.0 deg. F (adj.). The reheat shall be enabled when the space temperature drops below the active heating setpoint and the minimum airflow requirements are met. During reheat the VAV shall operate at its minimum heating airflow setpoint and energize the heat as follows:

Electric Silicon Controlled Rectifier Reheat (SCR):

If the space temperature is at the heating setpoint, the electric heater shall modulate as required to maintain space temperature at the active heating setpoint while the VAV operates at its minimum heating airflow setpoint. If the discharge air temperature reaches the design heating discharge air temperature setpoint (adj.), the VAV shall modulate airflow between the minimum heating airflow setpoint and the maximum heating airflow setpoint as required to maintain space temperature at the active heating setpoint, while the electric heater modulates to maintain discharge air temperature at the design heating discharge air temperature setpoint. If the airflow reaches the maximum heating airflow setpoint, the VAV shall modulate the electric heater as required to maintain space temperature at the active heating setpoint, while the VAV operates at its maximum heating airflow setpoint

Demand Control Ventilation:

When the unit is in unoccupied mode, the ventilation airflow setpoint will be zero. When the unit is in occupied mode, the ventilation airflow setpoint shall equal the design outdoor airflow (see VAV schedule).

The current ventilation airflow setpoint shall be communicated to the BAS for control of the system outdoor-air intake.

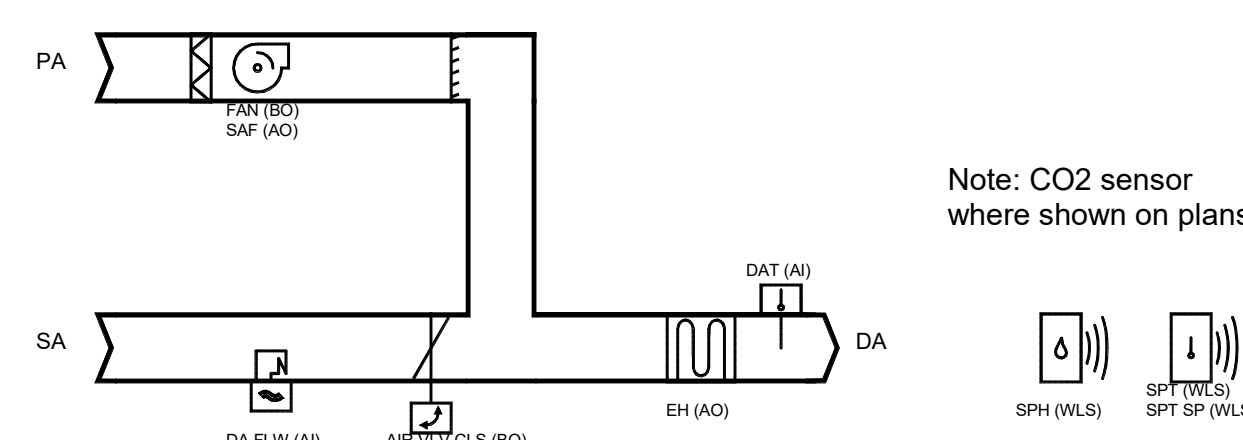
Space Sensor Failure:

If there is a fault with the operation of the zone sensor an alarm shall be announced at the BAS. Space sensor failure shall cause the VAV to drive the damper to minimum air flow if the VAV is in the occupied mode, or drive it closed if the VAV is in the unoccupied mode.

Space Humidity Monitoring:

The VAV Box will monitor the space humidity.

Flow Diagram: EXPANSION FPVAV TERMINAL UNIT [QTY: 13]



Sequence of Operation: EXPANSION FPVAV TERMINAL UNIT [QTY: 13]

Building Automation System Interface:

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Occupied:

Normal operating mode for occupied spaces or daytime operation. When the unit is in the occupied mode the VAV shall maintain the space temperature at the active occupied heating or cooling setpoint. Applicable ventilation and airflow setpoints shall be enforced. The occupied mode shall be the default mode of the VAV.

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Normal operating mode for unoccupied spaces or nighttime operation. When the unit is in unoccupied mode the VAV controller shall maintain the space temperature at the stored unoccupied heating or cooling setpoint regardless of the presence of a hardwired or communicated setpoint. When the space temperature exceeds the active unoccupied setpoint the VAV shall modulate fully closed.

Occupied Bypass:

Mode used to temporarily place the unit into the occupied operation. Tenants shall be able to override the unoccupied mode from the space sensor. The override shall last for a maximum of 4 hours (adj.). The tenants shall be able to cancel the override from the space sensor at any time. During the override the unit shall operate in occupied mode.

Heat/Cool Mode:

The Heat/Cool mode shall be set by a communicated value or automatically by the VAV. In standalone or auto mode the VAV shall compare the primary air temperature with the configured auto changeover setpoint to determine if the air is "hot" or "cold". Heating mode implies the primary air temperature is hot. Cooling mode implies the primary air temperature is cold."

Heat/Cool Setpoint:

The space temperature setpoint shall be determined either by a local (e.g., thumbwheel) setpoint, the VAV default setpoint or a communicated value. The VAV shall use the locally stored default setpoints when neither a local setpoint nor communicated setpoint is present. If both a local setpoint and communicated setpoint exist, the VAV shall use the communicated value.

Heating Mode:

When the unit is in heating mode, the VAV controller shall maintain the space temperature at the active heating setpoint by modulating the airflow between the active heating minimum airflow setpoint to the maximum heating airflow setpoint. The VAV controller shall use the measured space temperature and the active heating setpoint to determine the requested heating capacity of the unit. The outputs will be controlled based on the unit configuration and the requested heating capacity.

Intermittent Fan Control:

During all occupied modes, when the unit is in cooling mode, as the space temperature falls below the active cooling setpoint, the fan will work in conjunction with Reheat Sequence, and the VAV damper shall modulate to its minimum cooling airflow setpoint. Upon a continued drop in temperature, the terminal fan shall be energized and modulates between the minimum and maximum fan airflow setpoints to maintain space temperature at the active heating setpoint. If the fan reaches its maximum fan airflow setpoint, the VAV controller shall initiate Reheat (as described below) to maintain space temperature at the active heating setpoint, while the fan continues to operate at the maximum fan airflow setpoint. During the unoccupied mode, the VAV damper shall modulate fully closed. The terminal fan and heat (as described below) shall cycle as needed to maintain space temperature above the unoccupied heating setpoint.

Local Reheat Control:

Reheat will only be allowed when the primary air temperature is 5.0 deg. F below the configured reheat enable setpoint of 70.0 deg. F (adj.). The reheat shall be enabled when the space temperature drops below the active heating setpoint and the minimum airflow requirements are met. During reheat the VAV shall operate at its minimum heating airflow setpoint and energize the heat as follows:

Electric Silicon Controlled Rectifier Reheat (SCR):

If the space temperature is at the heating setpoint, the electric heater shall modulate as required to maintain space temperature at the active heating setpoint while the VAV operates at its minimum heating airflow setpoint. If the discharge air temperature reaches the design heating discharge air temperature setpoint (adj.), the VAV shall modulate airflow between the minimum heating airflow setpoint and the maximum heating airflow setpoint as required to maintain space temperature at the active heating setpoint, while the electric heater modulates to maintain discharge air temperature at the design heating discharge air temperature setpoint. If the airflow reaches the maximum heating airflow setpoint, the VAV shall modulate the electric heater as required to maintain space temperature at the active heating setpoint, while the VAV operates at its maximum heating airflow setpoint

Demand Control Ventilation:

When the unit is in unoccupied mode, the ventilation airflow setpoint will be zero. When the unit is in occupied mode, the ventilation airflow setpoint shall equal the design outdoor airflow (see VAV schedule).

The current ventilation airflow setpoint shall be communicated to the BAS for control of the system outdoor-air intake.

Space Sensor Failure:

If there is a fault with the operation of the zone sensor an alarm shall be announced at the BAS. Space sensor failure shall cause the VAV to drive the damper to minimum air flow if the VAV is in the occupied mode, or drive it closed if the VAV is in the unoccupied mode. The parallel fan shall be disabled along with the reheat.

Space Humidity Monitoring:

The VAV Box will monitor the space humidity.

Bentonville Public Library
Expansion
405 S Main Street
Bentonville, AR 72712

Project No. 20210037

Engineer Seal



Signature: Stephen Edmondson

Print Name: Stephen Edmondson

Date: 01-06-2023 License No.: 19299

BID SET

ISSUE / REVISION

Mark	Date	Description
	12/10/2021	SCHEMATIC DESIGN PRICING
	06/22/2022	DESIGN DEVELOPMENT PRICING
	8/12/2022	DD V OPTION B
	10/13/2022	PRE APP SET
	10/28/2022	LARGE SCALE DEVELOPMENT SUBMITTAL
	10/31/2022	CD PRICING SET
	11/14/2022	SECOND LSO SUBMITTAL
	11/28/2022	THIRD LSO SUBMITTAL
	12/21/2022	PERMIT SET
	1/6/2023	BID SET