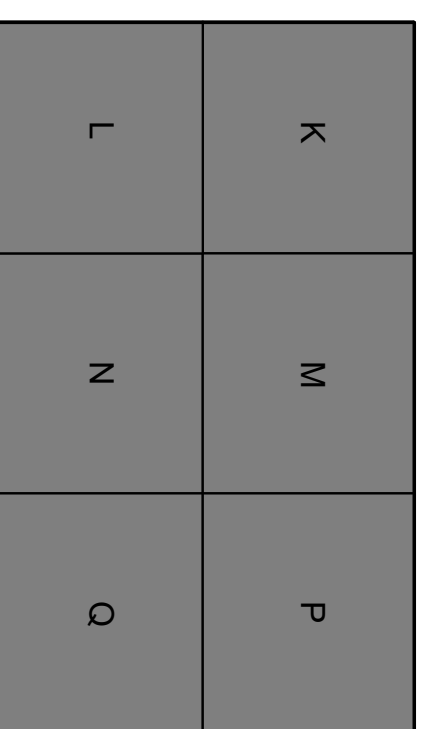


**LEVEL 01 - HVAC PLAN LOWER**

**KEY PLAN**



Audelek Does/VEG114 VEGA Americas, Mason Phase II Expansion/MEP23, 23007218.00, RVEG-C-0002 Mason Mfg Exp, C-1

**M201**

Project Manager  
M. WALSH

Drawn  
T. WAREHALL

Checked  
S. TOSSEY

Issue/Revision/Date  
02/26/2024

Project Number  
23007218.00

VEGA MASON EXPANSION  
MASON RESEARCH AND DEVELOPMENT PARK  
MASON, OH

**LEVEL 01 - HVAC PLAN OVERALL**

**BHDP**

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BHDP ARCHITECTURE  
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PHONE 513.271.1634

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STRUCTURAL Engineer: Schaefer, 537 East Pete Rose Way, Suite 400, Cincinnati, OH 45202; 513.542.3300  
MEP Engineer: IMEG, 11499 Chester Rd. Suite 501, Cincinnati, OH 45246; 513.782.4920

3	BULLETIN NO. 3	08/21/2024
2	BULLETIN NO. 2	07/11/2024
1	ISSUED FOR CONSTRUCTION	03/22/2024
0	ISSUED FOR PERMIT	02/26/2024
No.	Issue/Revision/Submission	Date

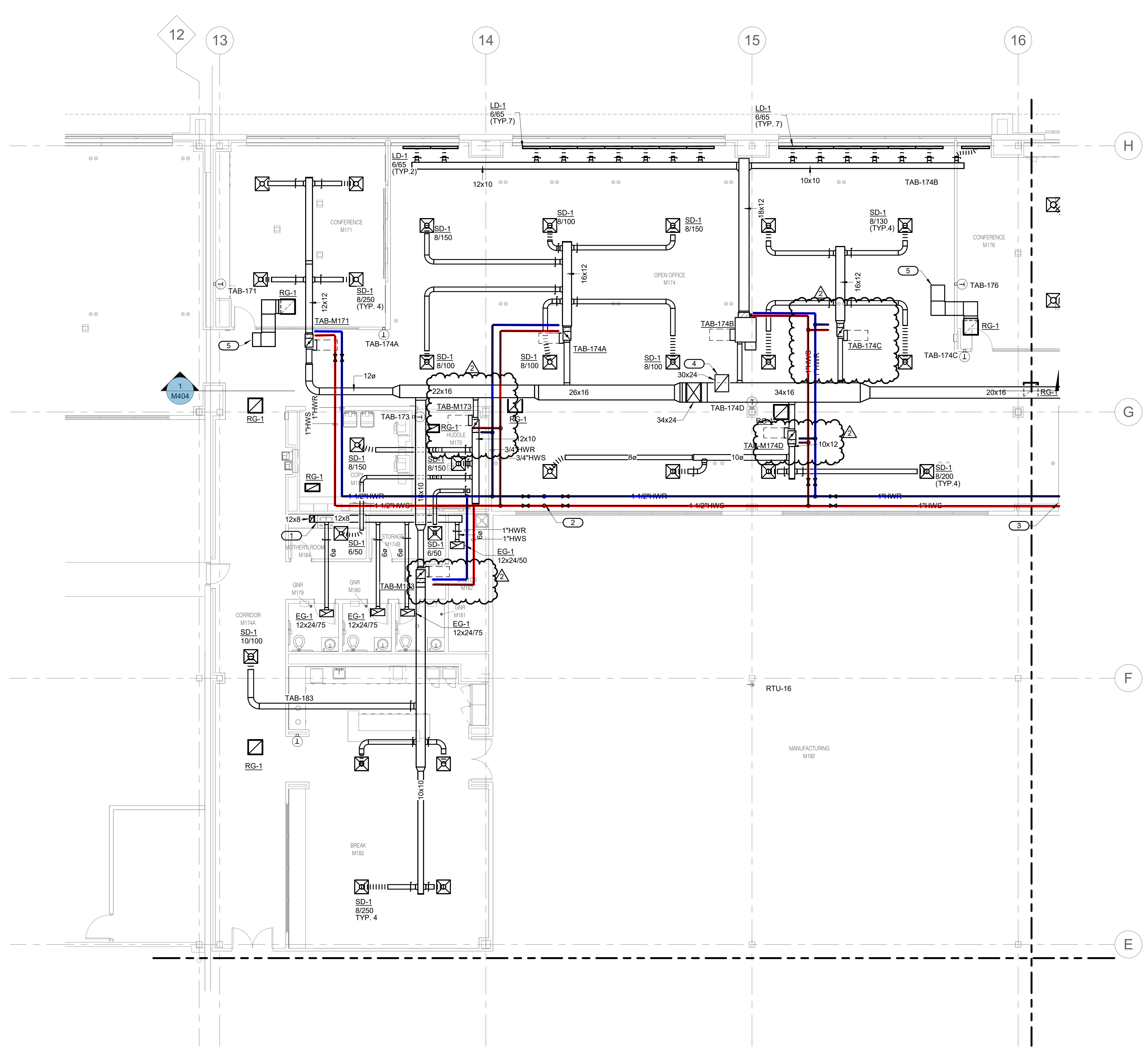
**IMEG**

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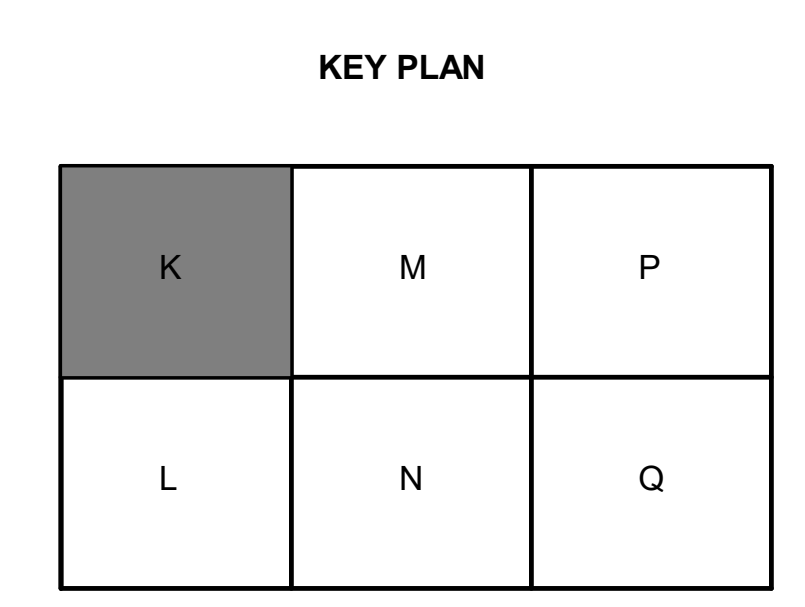
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**1 LEVEL 01 - HVAC PLAN - MANUFACTURING AREA K - LOWER**  
1/8" = 1'-0"

- SHEET NOTES:**
- REFER TO M001 FOR GENERAL NOTES AND NOTATIONS
  - ALL BRANCH DUCT WORK TO MATCH INLET SIZES OF THE DIFFUSER UNLESS OTHERWISE NOTED
  - ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES TO HAVE BALANCE DAMPERS.
  - REFER TO SECTIONS SHEET M400 - M403 FOR APPROXIMATE MOUNTING HEIGHTS IN THIS AREA. COORDINATE WITH OTHER TRADES.
- KEYNOTES:** ( # )
- 12"x12" EXHAUST AIR DUCT UP TO EE-16 ON ROOF ABOVE. REFER TO SHEET M202L FOR CONTINUATION.
  - 1-1/2" HOT WATER SUPPLY AND RETURN FROM ABOVE. REFER TO SHEET M202L FOR CONTINUATION.
  - 1" HOT WATER SUPPLY AND RETURN TO EAST PART OF OFFICE AREA. REFER TO SHEET M201M FOR CONTINUATION.
  - RETURN DUCT OPEN TO PLENUM. SEE SECTION FOR MORE INFORMATION.
  - PROVIDE WITH 24X10 SOUND LINED TRANSFER BOOT TO CORRIDOR.



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PROJECT NUMBER: 23007218.00

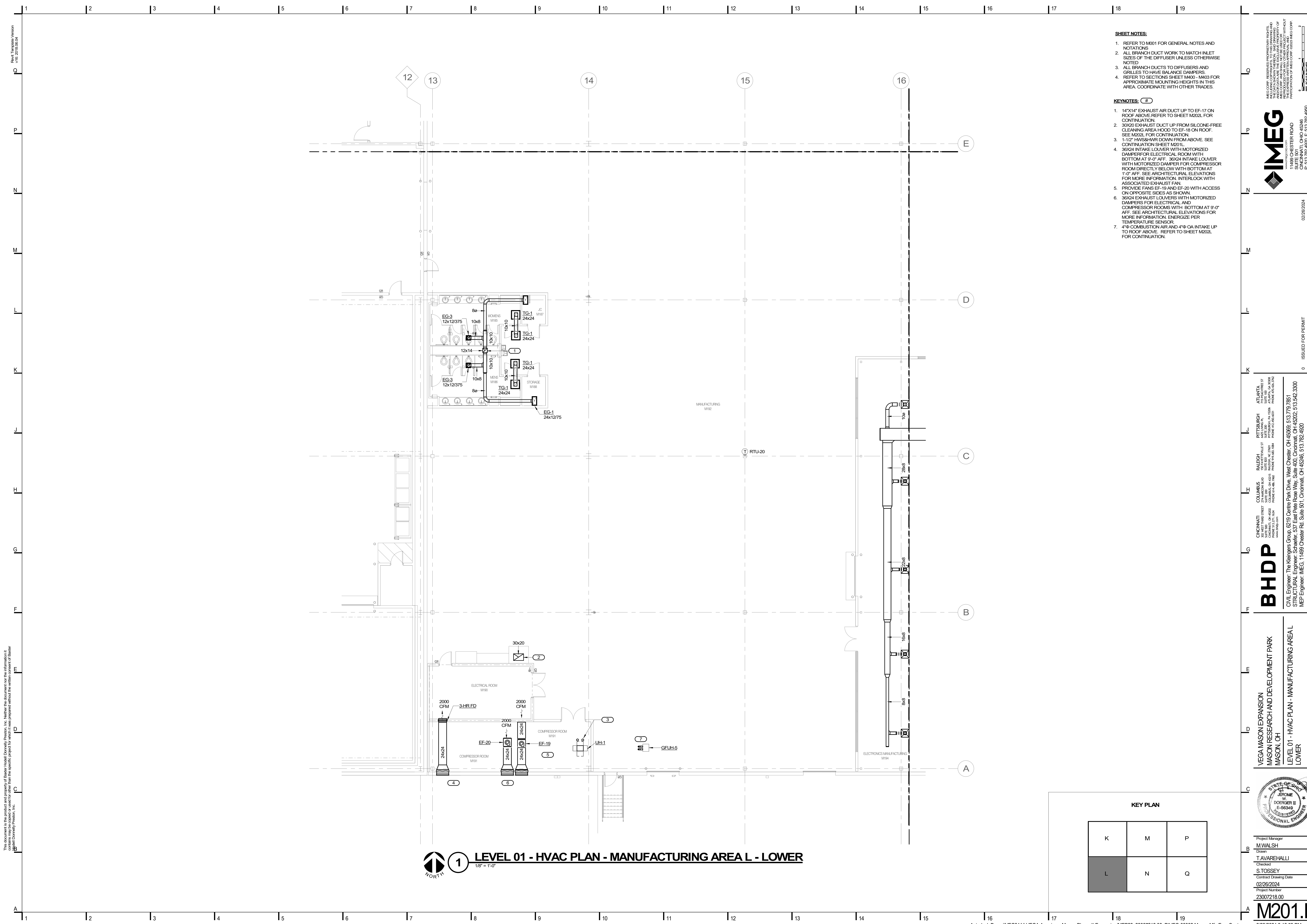
**BHDP ARCHITECTURE**  
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**VEGA MASON EXPANSION**  
MASON RESEARCH AND DEVELOPMENT PARK  
MASON, OH  
LEVEL 01 - HVAC PLAN - MANUFACTURING AREA K  
LOWER

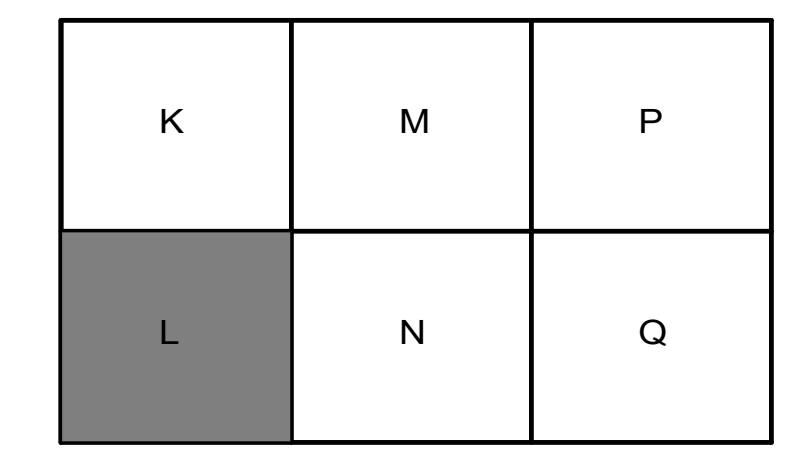
Project Manager: M.WALSH  
Drawn: T.AVAREHALLI  
Checked: S.STOSSEY  
Submitted Drawing Date: 02/26/2024  
Project Number: 23007218.00

**M201.K**



**1** LEVEL 01 - HVAC PLAN - MANUFACTURING AREA L - LOWER  
1/8" = 1'-0"

**KEY PLAN**



- SHEET NOTES:**
- REFER TO M001 FOR GENERAL NOTES AND NOTATIONS
  - ALL BRANCH DUCT WORK TO MATCH INLET SIZES OF THE DIFFUSER UNLESS OTHERWISE NOTED
  - ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES TO HAVE BALANCE DAMPERS.
  - REFER TO SECTIONS SHEET M400 - M403 FOR APPROXIMATE MOUNTING HEIGHTS IN THIS AREA. COORDINATE WITH OTHER TRADES.

- KEYNOTES: (7)**
- 14"x14" EXHAUST AIR DUCT UP TO EF-17 ON ROOF ABOVE. REFER TO SHEET M202L FOR CONTINUATION.
  - 30x24 EXHAUST DUCT UP FROM SILCONE-FREE CLEANING AREA HOOD TO EF-18 ON ROOF. SEE M202L FOR CONTINUATION.
  - 1-1/2" HVISH-HWR DOWN FROM ABOVE. SEE CONTINUATION SHEET M201L.
  - 30x24 INTAKE LOUVER WITH MOTORIZED DAMPER FOR ELECTRICAL ROOM WITH BOTTOM AT 9'-0" AFF. 30x24 INTAKE LOUVER WITH MOTORIZED DAMPER FOR COMPRESSOR ROOM DIRECTLY BELOW WITH BOTTOM AT 1'-0" AFF. SEE ARCHITECTURAL ELEVATIONS FOR MORE INFORMATION. INTERLOCK WITH ASSOCIATED EXHAUST FAN.
  - PROVIDE FANS EF-19 AND EF-20 WITH ACCESS ON OPPOSITE SIDES AS SHOWN.
  - 30x24 EXHAUST LOUVERS WITH MOTORIZED DAMPERS FOR ELECTRICAL AND COMPRESSOR ROOMS WITH BOTTOM AT 9'-0" AFF. SEE ARCHITECTURAL ELEVATIONS FOR MORE INFORMATION. ENERGIZE PER TEMPERATURE SENSOR.
  - 4"Ø COMBUSTION AIR AND 4"Ø OA INTAKE UP TO ROOF ABOVE. REFER TO SHEET M202L FOR CONTINUATION.

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PROJECT #2307218.00

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MEP Engineer: IMEG, 11499 Chester Rd, Suite 501, Cincinnati, OH 45246, 513.782.4920

VEGA MASON EXPANSION  
MASON RESEARCH AND DEVELOPMENT PARK  
MASON, OH  
LEVEL 01 - HVAC PLAN - MANUFACTURING AREA L  
LOWER

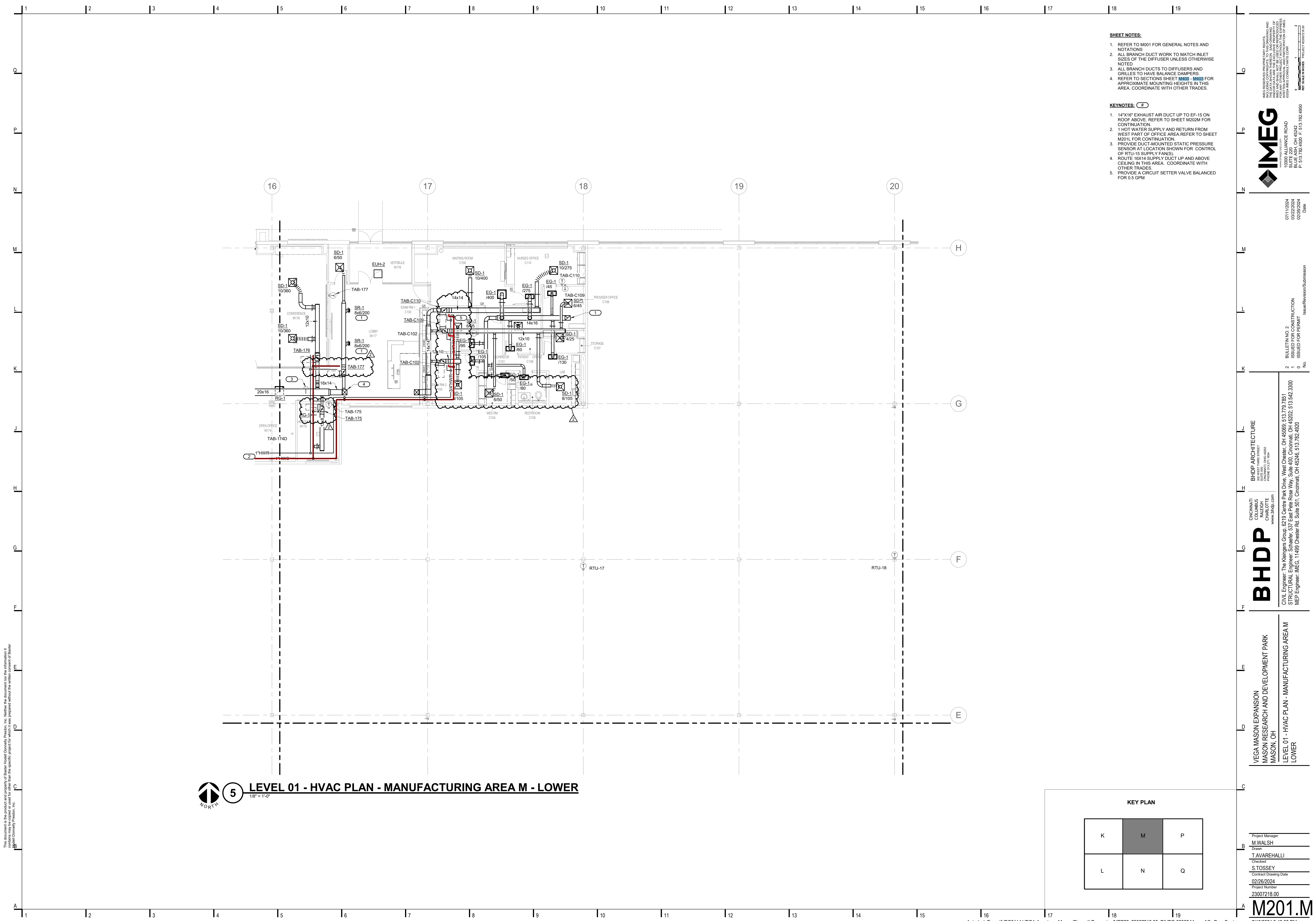
Project Manager  
M.WALSH  
Drawn  
T.AVAREHALLI  
Checked  
S.TOSSEY  
Contract Drawing Date  
02/26/2024  
Project Number  
2307218.00

**M201.L**

Autodesk Docs://VEG0114 VEGA Americas, Mason Phase II Expansion/MEP23\_23007218.00\_RVEG-00002 Mason Mfg Exp\_C.rvt

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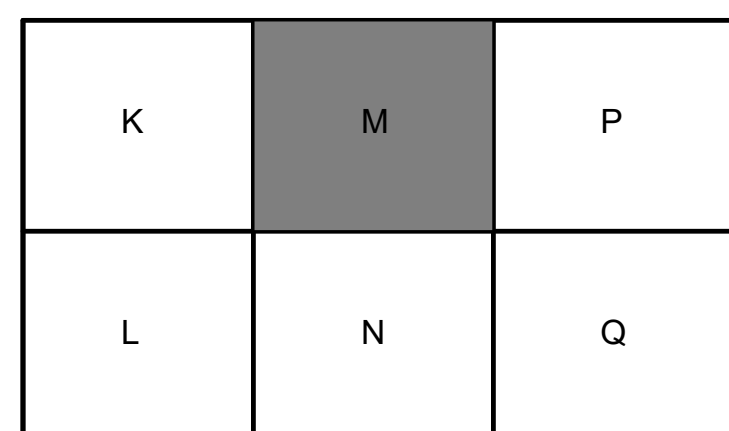
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**5 LEVEL 01 - HVAC PLAN - MANUFACTURING AREA M - LOWER**  
 1/8" = 1'-0"



**KEY PLAN**



- SHEET NOTES:**
- REFER TO M001 FOR GENERAL NOTES AND NOTATIONS
  - ALL BRANCH DUCT WORK TO MATCH INLET SIZES OF THE DIFFUSER UNLESS OTHERWISE NOTED
  - ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES TO HAVE BALANCE DAMPERS.
  - REFER TO SECTIONS SHEET M200 - M203 FOR APPROXIMATE MOUNTING HEIGHTS IN THIS AREA. COORDINATE WITH OTHER TRADES.
- KEYNOTES:** (7)
- 14"x16" EXHAUST AIR DUCT UP TO EF-15 ON ROOF ABOVE. REFER TO SHEET M202M FOR CONTINUATION.
  - 1 HOT WATER SUPPLY AND RETURN FROM WEST PART OF OFFICE AREA. REFER TO SHEET M201L FOR CONTINUATION.
  - PROVIDE DUCT-MOUNTED STATIC PRESSURE SENSOR AT LOCATION SHOWN FOR CONTROL OF RTU-15 SUPPLY FAN(S).
  - ROUTE 16X14 SUPPLY DUCT UP AND ABOVE CEILING IN THIS AREA. COORDINATE WITH OTHER TRADES.
  - PROVIDE A CIRCUIT SETTER VALVE BALANCED FOR 0.5 GPM

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DATE: 02/26/2024  
 NO. 02/26/2024

ISSUED FOR PERMIT  
 02/26/2024

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 STRUCTURAL ENGINEER: Schaefer, 537 East Pale Rose Way, Suite 400, Cincinnati, OH 45202, 513.542.3300  
 MEP ENGINEER: IMEG, 11498 Chester Rd, Suite 501, Cincinnati, OH 45246, 513.782.4920

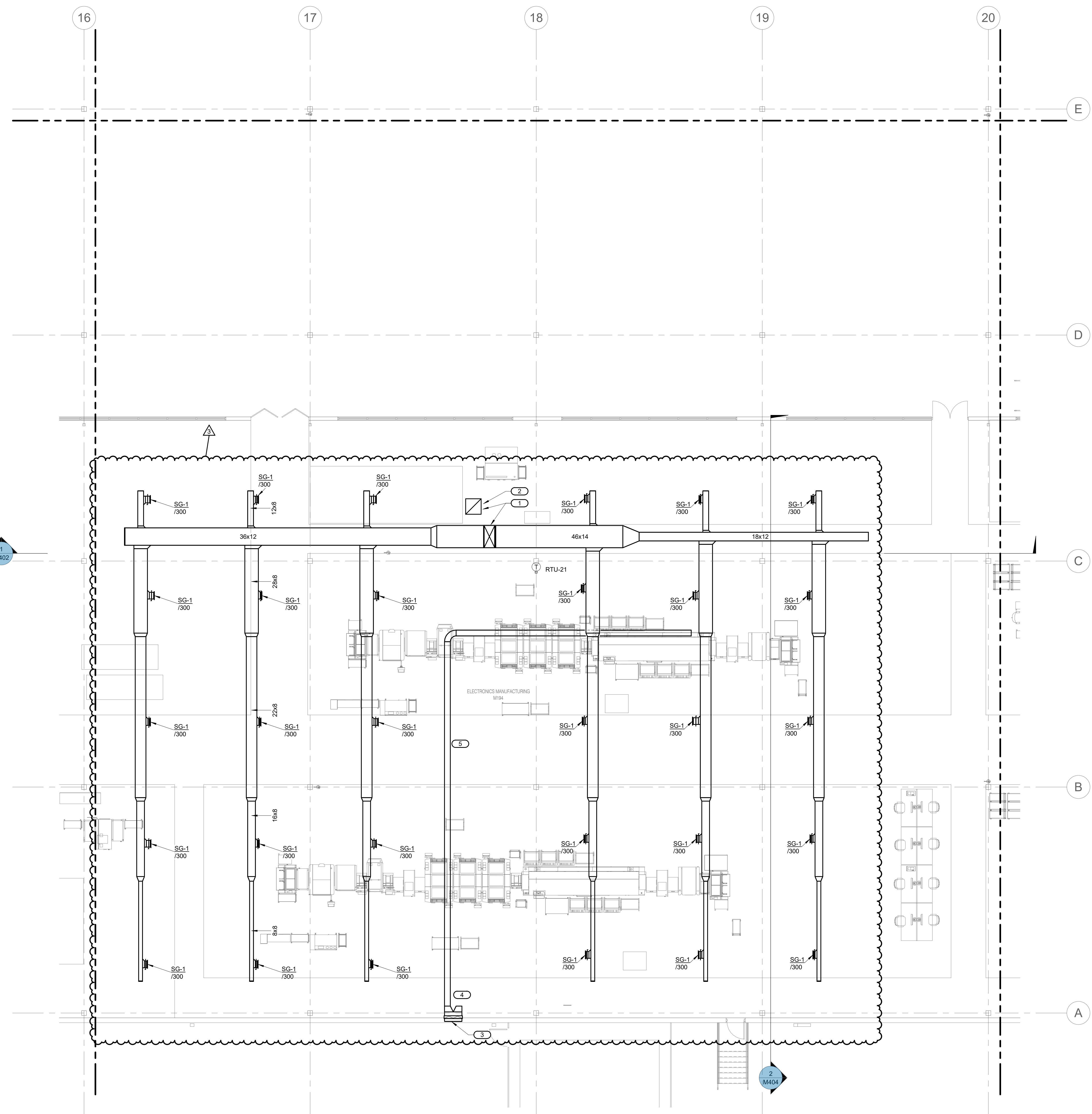
VEGA MASON EXPANSION  
 MASON RESEARCH AND DEVELOPMENT PARK  
 MASON, OH  
 LEVEL 01 - HVAC PLAN - MANUFACTURING AREA M  
 LOWER

Project Manager: M. WALSH  
 Drawn: T. AVAREHALLI  
 Checked: S. STOSSEY  
 Scale/Date: 02/26/2024  
 Project Number: 23007218.00

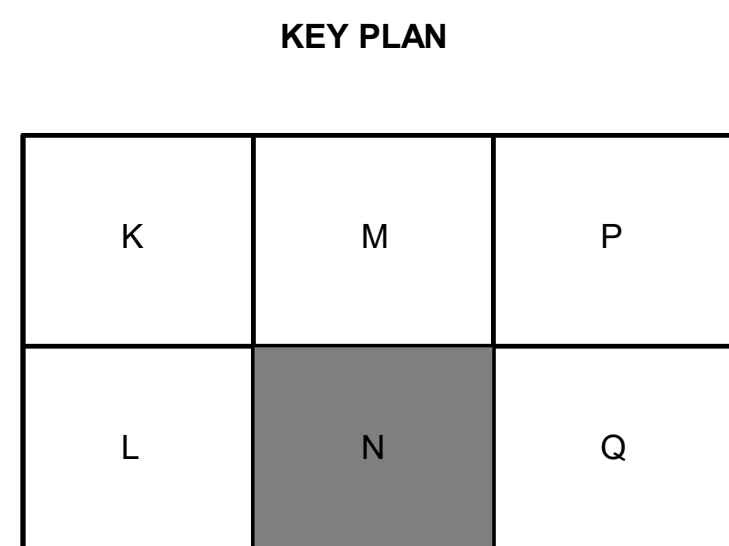
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**1** LEVEL 01 - HVAC PLAN - MANUFACTURING AREA N - LOWER  
1/8" = 1'-0"



- SHEET NOTES:**
- REFER TO M001 FOR GENERAL NOTES AND NOTATIONS
  - ALL BRANCH DUCT WORK TO MATCH INLET SIZES OF THE DIFFUSER UNLESS OTHERWISE NOTED
  - ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES TO HAVE BALANCE DAMPERS.
  - REFER TO SECTIONS SHEET M400 - M403 FOR APPROXIMATE MOUNTING HEIGHTS IN THIS AREA. COORDINATE WITH OTHER TRADES.
- KEYNOTES:**
- SUPPLY / RETURN DUCT UP TO RTU-21 LOCATED ON ROOF. REFER TO SHEETS M202
  - RETURN AIR DUCT SHALL PENETRATE DOWN INTO ELECTRONICS MANUFACTURING M194 AND TERMINATE +/- 12" BELOW MEZZANINE FLOOR. PROVIDE WITH SOUND LINED RETURN BOOT.
  - 36x24 EXHAUST LOUVER WITH MOTORIZED DAMPER FOR EXHAUST OF REFLOW OVEN. SEE ARCHITECTURAL DRAWINGS FOR LOUVER ELEVATION.
  - ROUTE EXHAUST DUCT WITH BOTTOM AT 10'-0" A.F.F. EXTEND DUCT TO EXHAUST CONNECTION POINT ON REFLOW OVEN. LOCATE TIE-IN AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

Project Manager  
M. WALSH  
Drawn  
T. AVAREHALLI  
Checked  
S. TOSSEY  
Contract Drawing Date  
02/26/2024  
Project Number  
23007218.00

VEGA MASON EXPANSION  
MASON RESEARCH AND DEVELOPMENT PARK  
MASON, OH  
LEVEL 01 - HVAC PLAN - MANUFACTURING AREA  
LOWER

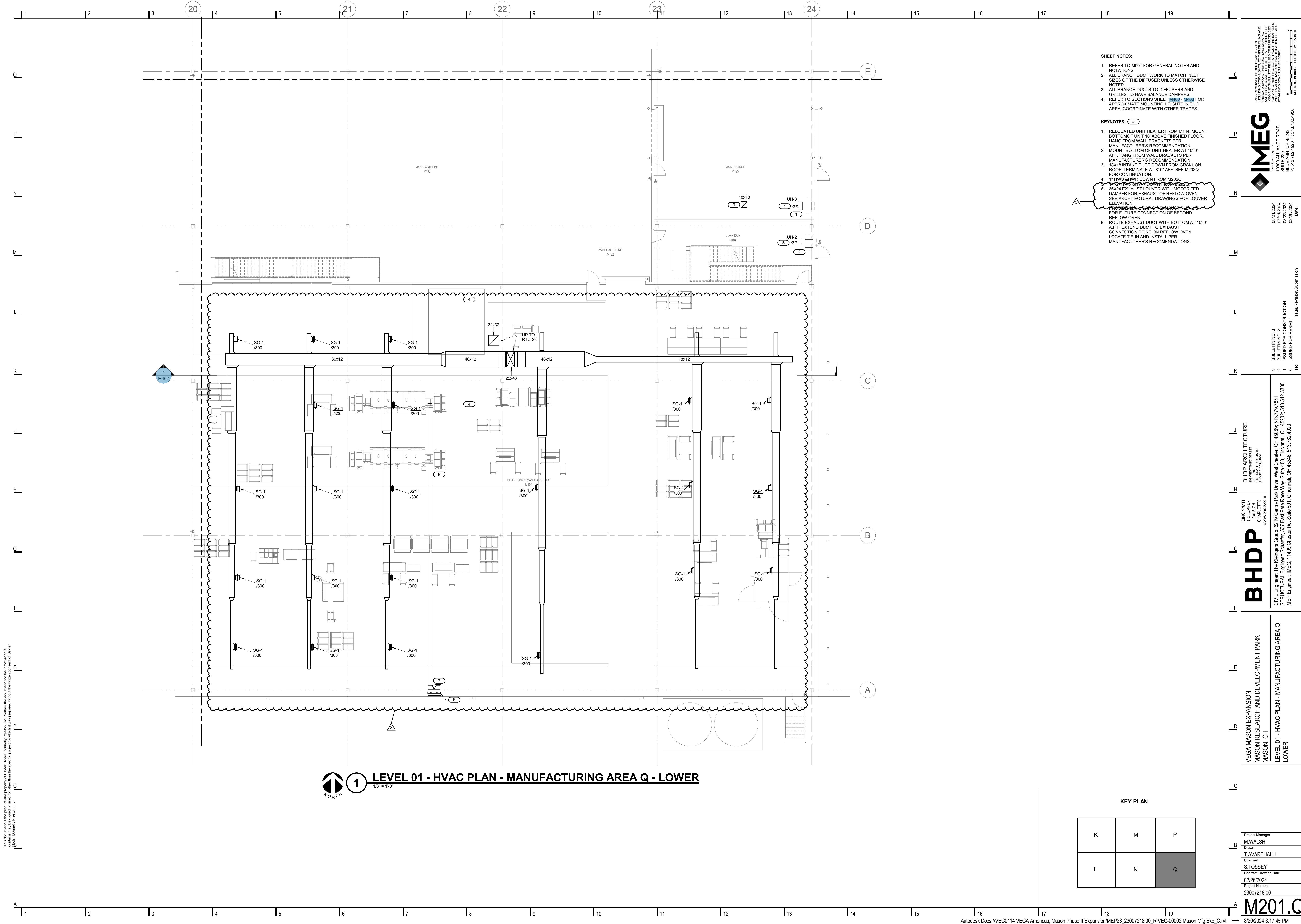
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09/22/2024  
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02/26/2024  
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No.

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  - ALL BRANCH DUCT WORK TO MATCH INLET SIZES OF THE DIFFUSER UNLESS OTHERWISE NOTED
  - ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES TO HAVE BALANCE DAMPERS.
  - REFER TO SECTIONS SHEET M400 - M403 FOR APPROXIMATE MOUNTING HEIGHTS IN THIS AREA. COORDINATE WITH OTHER TRADES.

- KEYNOTES: ( # )**
- RELOCATED UNIT HEATER FROM M144. MOUNT BOTTOM OF UNIT 10' ABOVE FINISHED FLOOR. HANG FROM WALL BRACKETS PER MANUFACTURER'S RECOMMENDATION.
  - MOUNT BOTTOM OF UNIT HEATERS AT 10'-0" AFF. HANG FROM WALL BRACKETS PER MANUFACTURER'S RECOMMENDATION.
  - 18X18 INTAKE DUCT DOWN FROM GRS-1 ON ROOF. TERMINATE AT 8'-0" AFF. SEE M202Q FOR CONTINUATION. 1" HVLS SHWR DOWN FROM M202Q.
  - 36X24 EXHAUST LOUVER WITH MOTORIZED DAMPER FOR EXHAUST OF REFLOW OVEN. SEE ARCHITECTURAL DRAWINGS FOR LOUVER ELEVATION.
  - FOR FUTURE CONNECTION OF SECOND REFLOW OVEN.
  - ROUTE EXHAUST DUCT WITH BOTTOM AT 10'-0" A.F.F. EXTEND DUCT TO EXHAUST CONNECTION POINT ON REFLOW OVEN. LOCATE TIE-IN AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



09/21/2024  
 02/22/2024  
 02/26/2024  
 02/26/2024  
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 RALEIGH, CHARLOTTE, NC  
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 STRUCTURAL Engineer: Schaefer, 537 East Pelee Rose Way, Suite 400, Cincinnati, OH 45202, 513.542.3300  
 MEP Engineer: IMEG, 11498 Chester Rd, Suite 501, Cincinnati, OH 45246, 513.782.4920

**1 LEVEL 01 - HVAC PLAN - MANUFACTURING AREA Q - LOWER**  
 1/8" = 1'-0"

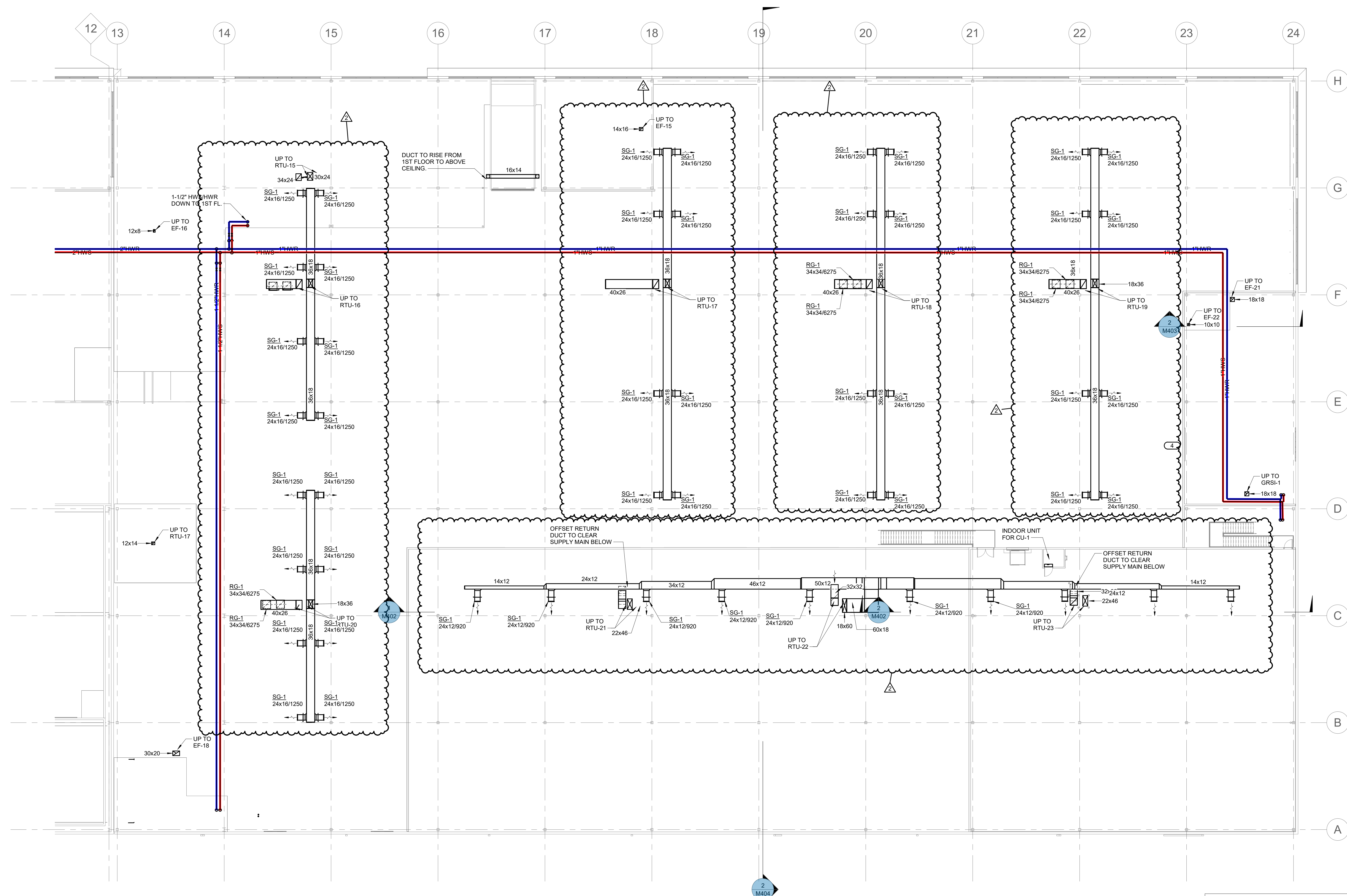
**KEY PLAN**

K	M	P
L	N	Q

Project Manager  
 M.WALSH  
 Drawn  
 T.AVAREHALLI  
 Checked  
 S.STOSSEY  
 Submit Drawing Date  
 02/26/2024  
 Project Number  
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**4** LEVEL 02 - HVAC PLAN UPPER  
1/16" = 1'-0"

**KEY PLAN**

K	M	P
L	N	Q



18/01/2024  
03/22/2024  
02/26/2024

2 BLUE PLAN 3  
1 ISSUED FOR CONSTRUCTION  
0 ISSUED FOR PERMIT

No. Issue/Revision/Submission

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**BHDP ARCHITECTURE**  
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COLUMBUS, OH 43215  
PHONE 614.377.1851

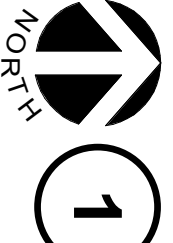
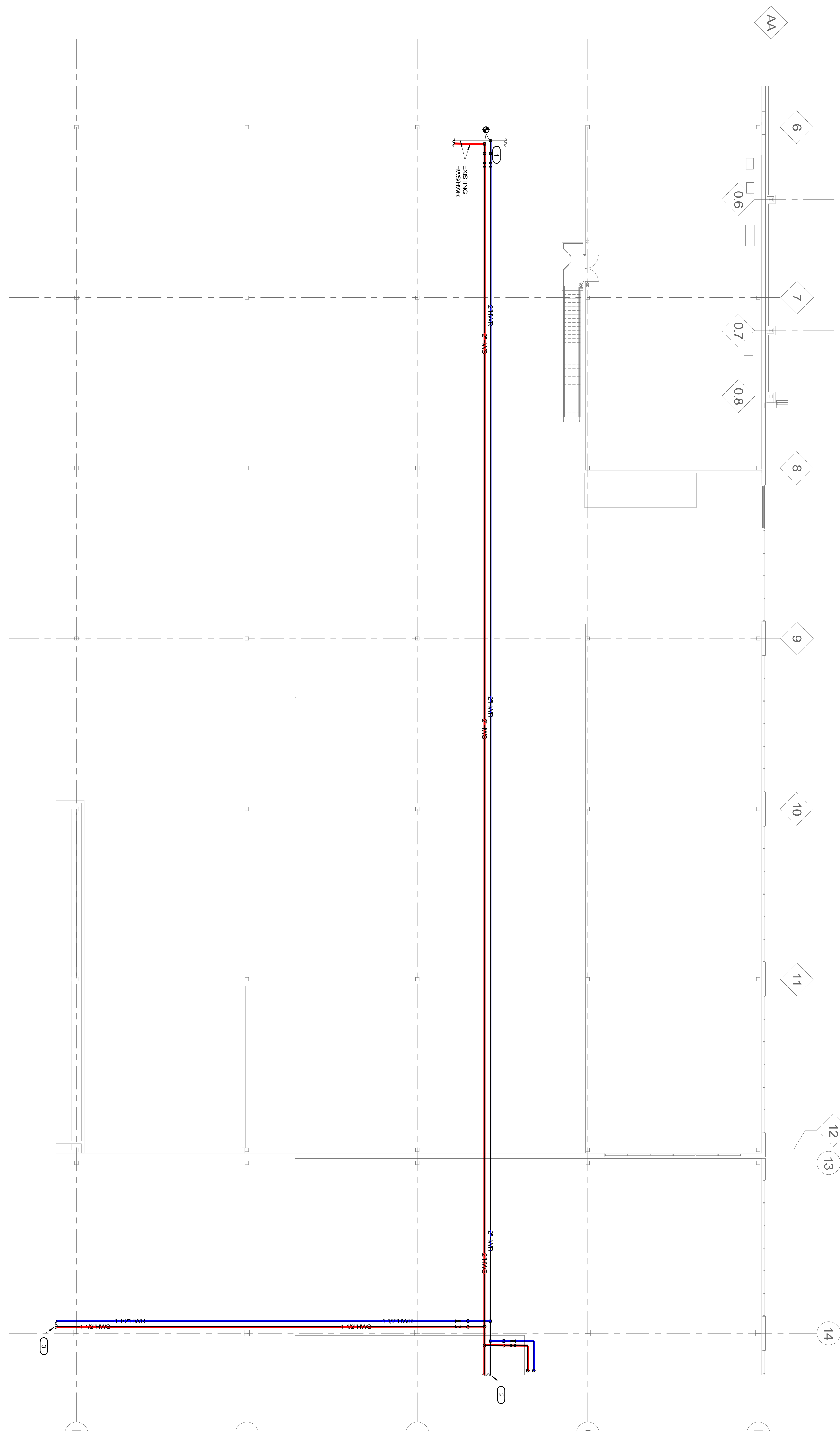
CIVIL Engineer: The Kleingers Group, 6219 Centre Park Drive, West Chester, OH 45389, 513.779.7851  
STRUCTURAL Engineer: Schaefer, 537 East Pelee Road, Suite 400, Cincinnati, OH 45202, 513.542.3300  
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VEGA MASON EXPANSION  
MASON RESEARCH AND DEVELOPMENT PARK  
MASON, OH

LEVEL 02 - UPPER LEVEL HVAC PLAN

Project Manager  
M. WALSH  
Drawn  
T. AVAREHALLI  
Checked  
S. STOSSEY  
Submitted Drawing Date  
02/26/2024  
Project Number  
23007218.00

**M202**  
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1

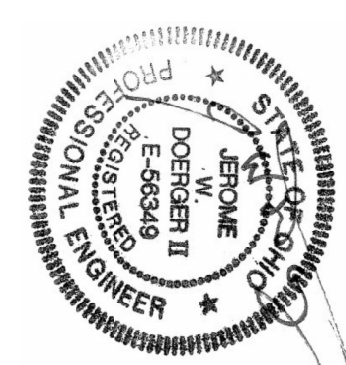
**MECHANICAL PLAN-LEVEL 2 EXISTING BUILDING (NO DUCTWORK SHOWN FOR CLARITY)**

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  3. REFER TO M202 FOR CONTINUATION.

- KEYNOTES:**
1. EXTEND NEW 2" PIPER UNLESS OTHERWISE NOTED.
  2. CONNECTION WITH BALL VALVE FOR SHUT-OFF. OPERATE BALL VALVE IN THE OPEN POSITION.
  3. SEE M202-K FOR CONTINUATION.

**KEY PLAN**

K	M	P
L	N	Q



**VEGA MASON EXPANSION**  
**MASON RESEARCH AND DEVELOPMENT PARK**  
**MASON, OH**  
**EXISTING MANUFACTURING BLDG-HVAC PLAN**

**BHDP**

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 MEP Engineer: IMEG, 11499 Chester Rd. Suite 501, Cincinnati, OH 45246, 513.782.4920

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02/26/2024  
 Date

**IMEG**

11499 CHESTER ROAD  
 SUITE 501  
 CINCINNATI, OHIO 45246  
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 PROJECT #2307218.00

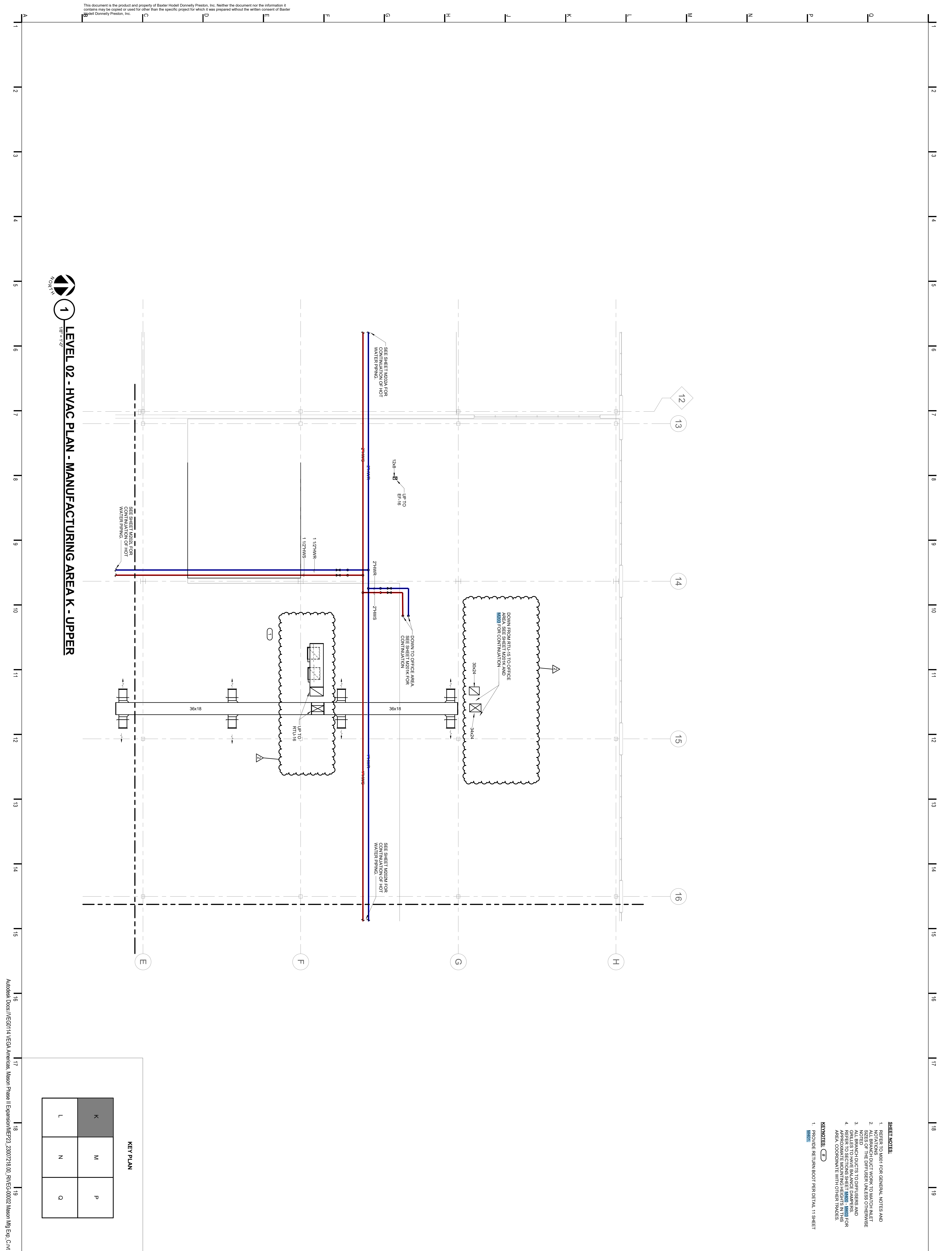
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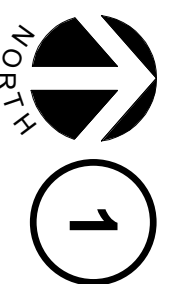
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**LEVEL 02 - HVAC PLAN - MANUFACTURING AREA K - UPPER**



- SHEET NOTES:**
- REFER TO M202.1 FOR GENERAL NOTES AND NOTATIONS
  - ALL BRANCH DUCTWORK TO MATCH INLET NOTED
  - ALL BRANCH DUCTS TO DIFFUSERS AND APPROXIMATE MOUNTING HEIGHTS IN THIS AREA COORDINATE WITH OTHER TRADES
  - PROVIDE RETURN BOOT PER DETAIL 11 SHEET

**KEY PLAN**

K	M	P
L	N	Q

**M202.K**

Project Number: 23007218.00  
 Issue Date: 02/26/2024  
 Project Name: Audodesk Does/VEGA Americas Mason Phase II Expansion/MEP23\_23007218.00\_RV/VEG-0002 Mason Mfg Exp. C.rvt

**VEGA MASON EXPANSION**  
 MASON RESEARCH AND DEVELOPMENT PARK  
 MASON, OH

**LEVEL 02 - HVAC PLAN - MANUFACTURING AREA K UPPER**

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 MEP Engineer: IMEG, 11499 Chester Rd. Suite 501, Cincinnati, OH 45246, 513.782.4920

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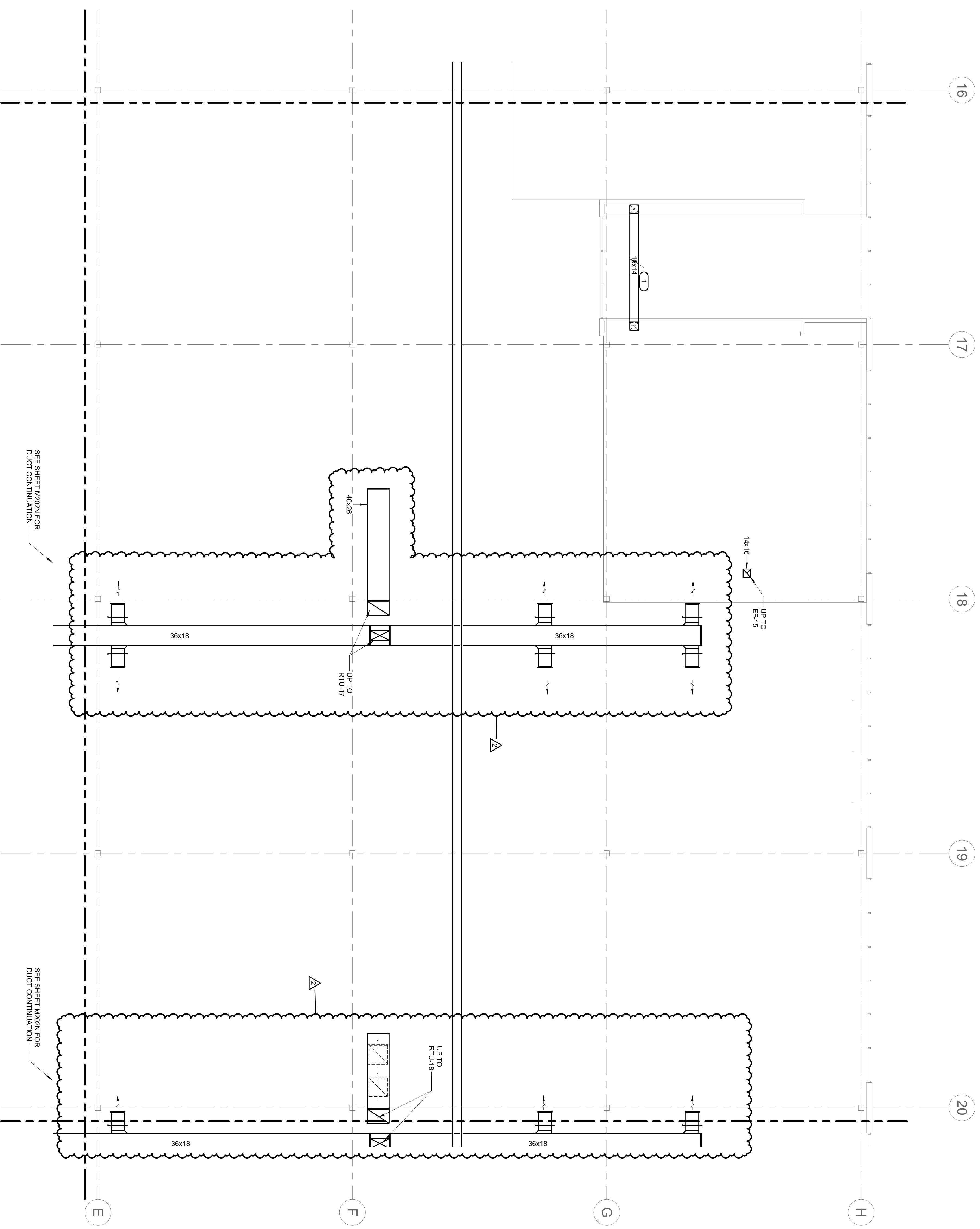
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REF. SCALE IN INCHES PROJECT #23007218.00





**1** LEVEL 02 - HVAC PLAN - MANUFACTURING AREA M - UPPER

- SHEET NOTES:**
1. REFER TO M001 FOR GENERAL NOTES AND SPECIFICATIONS.
  2. ALL BRANCH DUCTWORK TO MATCH INLET SIZES OF THE DIFFUSER UNLESS OTHERWISE NOTED.
  3. ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES TO HAVE RAISED EXHAUSTERS AND APPROXIMATE MOUNTING HEIGHTS FOR AREA COORDINATE WITH OTHER TRADES.
- KEYNOTES:**
1. SUPPLY/DUCT ROUTED ABOVE CEILING BELOW IN LOBBY AREA.

**KEY PLAN**

K	M
L	N
	P
	Q

**M202.M**

Project Manager: M. WALSH  
 Designer: T. WAREHALL  
 Checker: S. TOSSEY  
 Issue Date: 02/26/2024  
 Project Number: 23007218.00

VEGA MASON EXPANSION  
 MASON RESEARCH AND DEVELOPMENT PARK  
 MASON, OH  
 LEVEL 02 - HVAC PLAN - MANUFACTURING AREA M  
 UPPER



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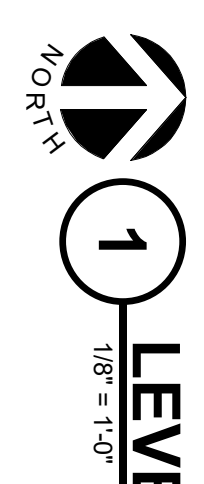
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08/21/2024  
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 Date



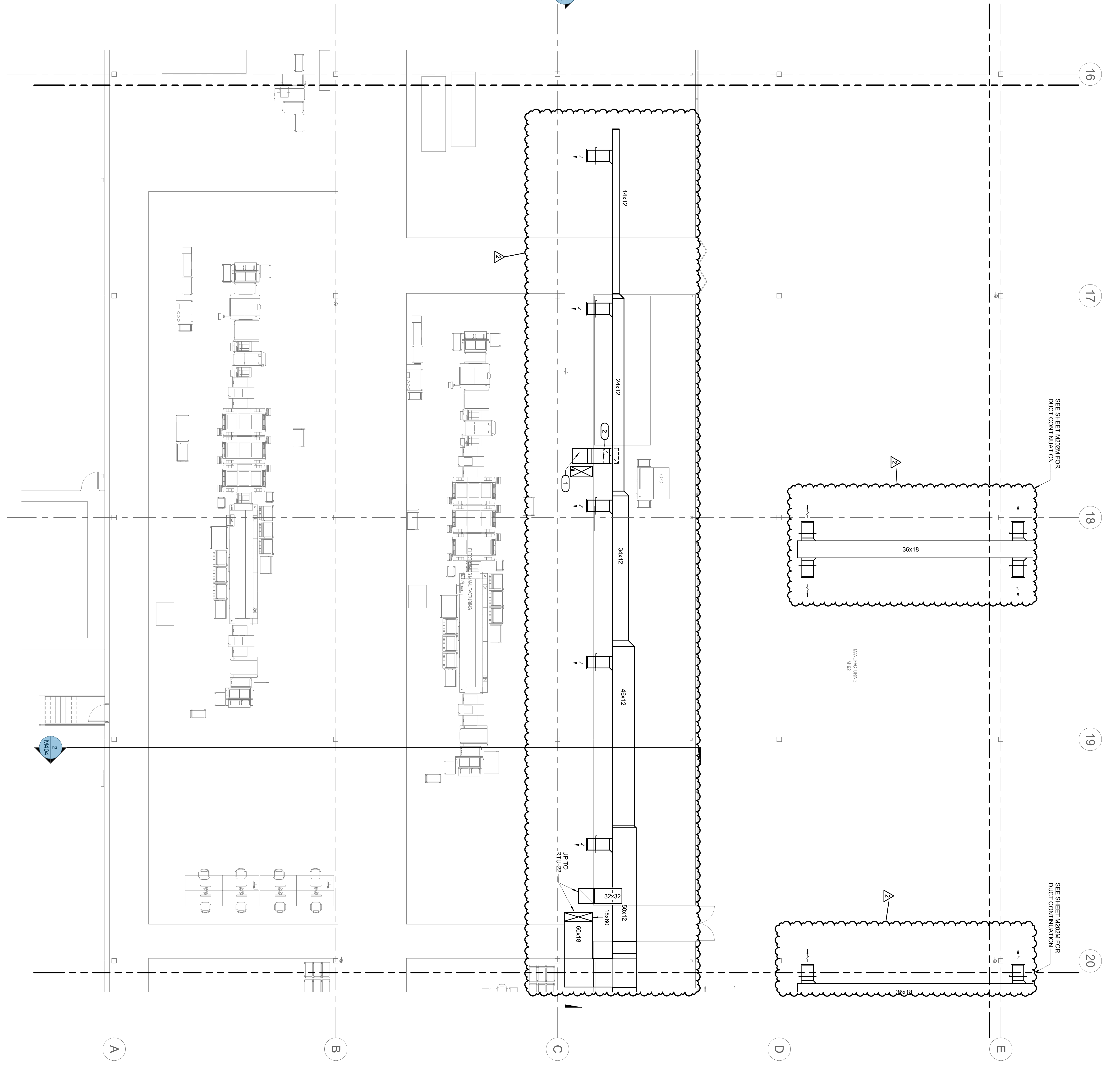
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1

LEVEL 02 - HVAC PLAN - MANUFACTURING AREA N - UPPER

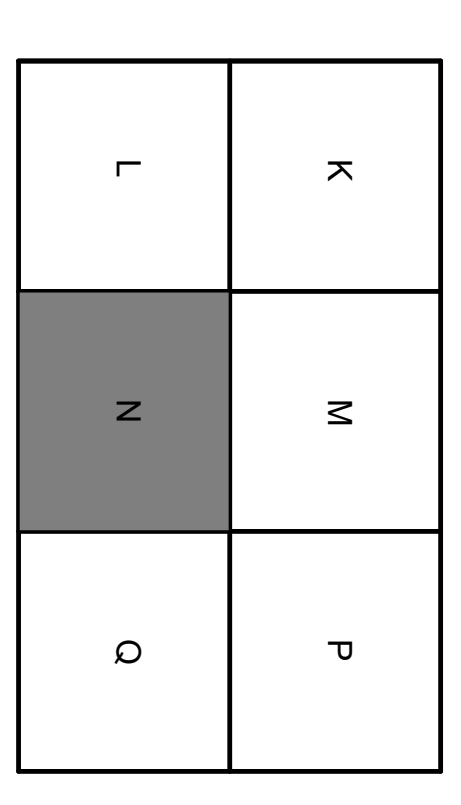


SEE SHEET M2021N FOR DUCT CONTINUATION

SEE SHEET M2021N FOR DUCT CONTINUATION

- SHEET NOTES:**
- REFER TO M201 FOR GENERAL NOTES AND ALL BRANCH DUCTWORK TO MATCH INLET SIZES OF THE DIFFUSER UNLESS OTHERWISE NOTED.
  - ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES TO HAVE BALANCE DAMPERS AND APPROXIMATE MOUNTING HEIGHTS IN THIS AREA COORDINATE WITH OTHER TRADES.
- REMARKS:**
- RTU/21 SUPPLY AND RETURN MAINS CONTINUE TO SHEET M2021N FOR CONTINUATION.
  - RETURN DUCT OFFSETS AT 45° ON MEZZANINE LEVEL TO CLEAN SUPPLY DUCT ON FLOOR BELOW.

KEY PLAN



VEGA MASON EXPANSION  
MASON RESEARCH AND DEVELOPMENT PARK  
MASON, OH  
LEVEL 02 - HVAC PLAN - MANUFACTURING AREA N  
UPPER



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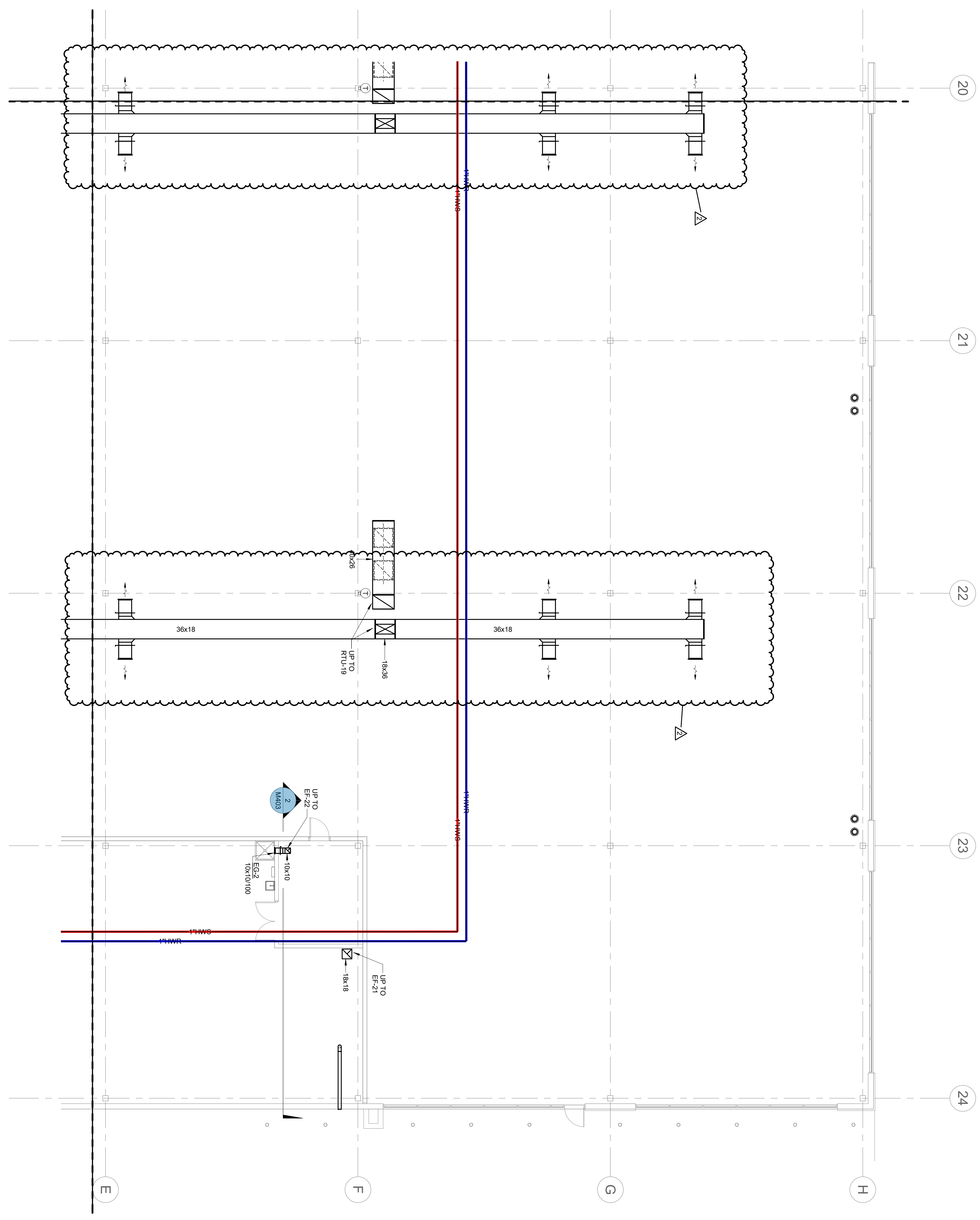
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8/20/2024 3:18:21 PM

M2021N

Project Manager: M. WALSH  
Designer: T. WAREHALI  
Checked: S. TOSSEY  
Issue Date: 02/26/2024  
Project Number: 23007218.00

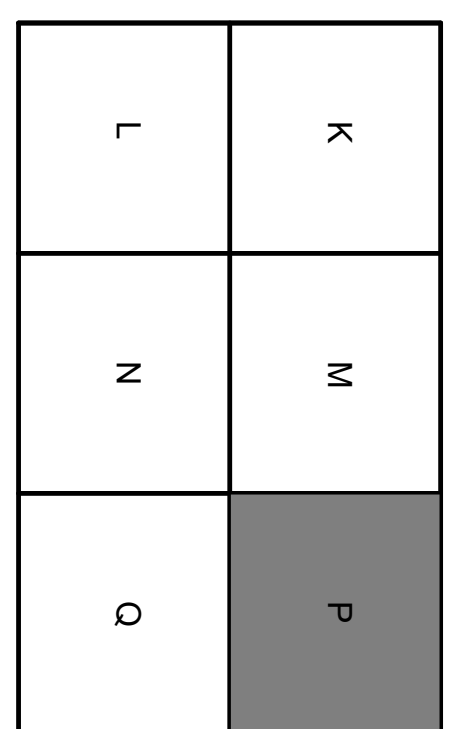


**1** LEVEL 02 - HVAC PLAN - MANUFACTURING AREA P - UPPER  
1/8" = 1'-0"



- SHEET NOTES:**
1. REFER TO M001 FOR GENERAL NOTES AND NOTATIONS.
  2. NOT WORK TO MATCH UNLESS SPECIFIED OTHERWISE.
  3. REFER TO SECTIONS SHEET M001 - M003 FOR AREA COORDINATE WITH OTHER TRADES.
  4. REFER TO SECTIONS SHEET M001 - M003 FOR AREA COORDINATE WITH OTHER TRADES.

**KEY PLAN**



Autodesk Docs/VEGA Americas Mason Phase II Expansion/MEP23\_23007218.00\_RV/VEG-0002 Mason Mfg Exp. C.rvt

**M202.P**

Project Manager: M. WALSH  
 Designer: T. WAREHALLI  
 Checker: S. STOSSEY  
 Issue Date: 02/26/2024  
 Project Number: 23007218.00

VEGA MASON EXPANSION  
 MASON RESEARCH AND DEVELOPMENT PARK  
 MASON, OH  
 LEVEL 02 - HVAC PLAN - MANUFACTURING AREA P  
 UPPER

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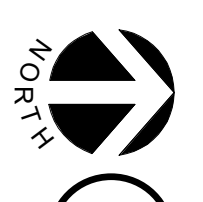
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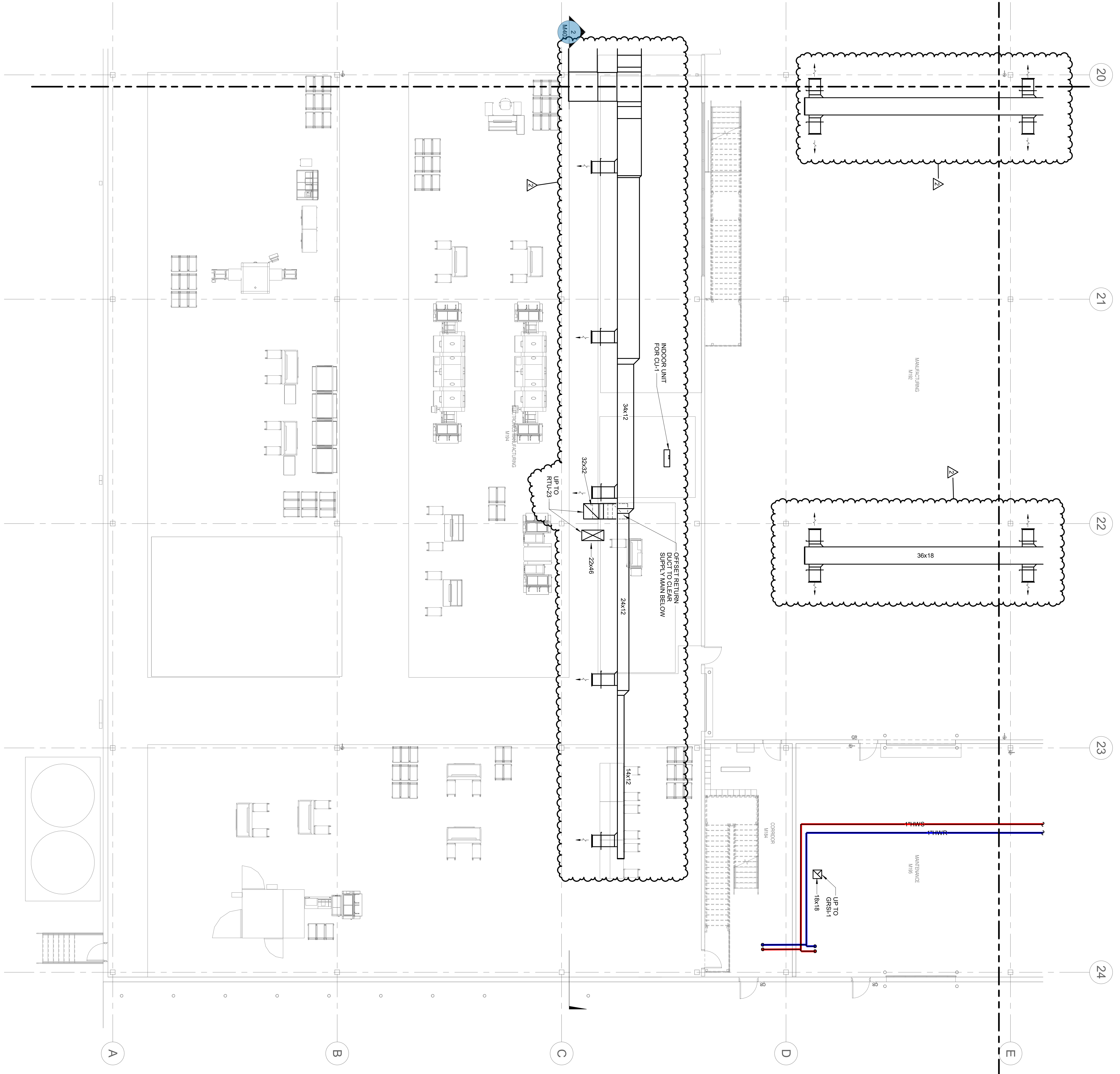
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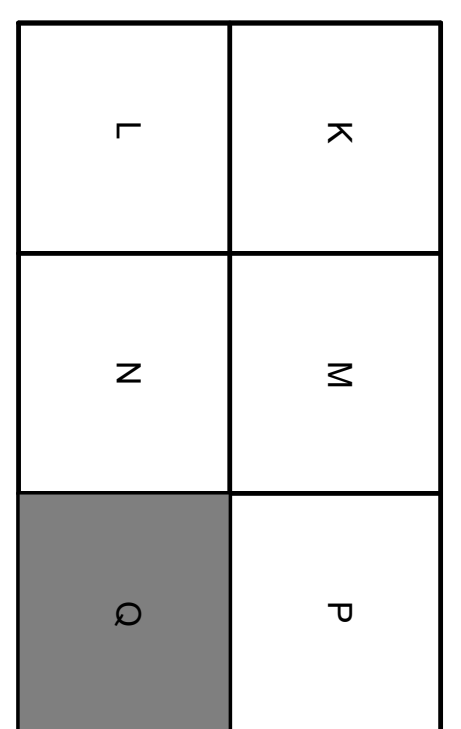
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LEVEL 02 - HVAC PLAN - MANUFACTURING AREA Q - UPPER



- SHEET NOTES**
1. REFER TO M01 FOR GENERAL NOTES AND NOTATIONS
  2. ALL BRANCH DUCT WORK TO MATCH ALLEYS
  3. ALL BRANCH DUCTS TO OFFERSERS AND NOTED
  4. ALL BRANCH DUCTS TO OFFERSERS AND NOTED
  5. REFER TO SECTIONS SHEET M202.0 - M202.0 FOR APPROXIMATE MOUNTING HEIGHTS IN THIS AREA. COORDINATE WITH OTHER TRADES.

**KEY PLAN**



Autodesk, Docs/VEGA Americas, Mason Phase II Expansion/MEP23, 23007218.00, RVE/GC-0002, Mason Mfg Exp, C.V.I.

**M202.0**

Project Manager: M. WALSH  
 Designer: T. VAREHALLI  
 Checker: S. TOSSEY  
 Date: 02/26/2024  
 Project Number: 23007218.00

VEGA MASON EXPANSION  
 MASON RESEARCH AND DEVELOPMENT PARK  
 MASON, OH  
 LEVEL 02 - HVAC PLAN - MANUFACTURING AREA Q  
 UPPER



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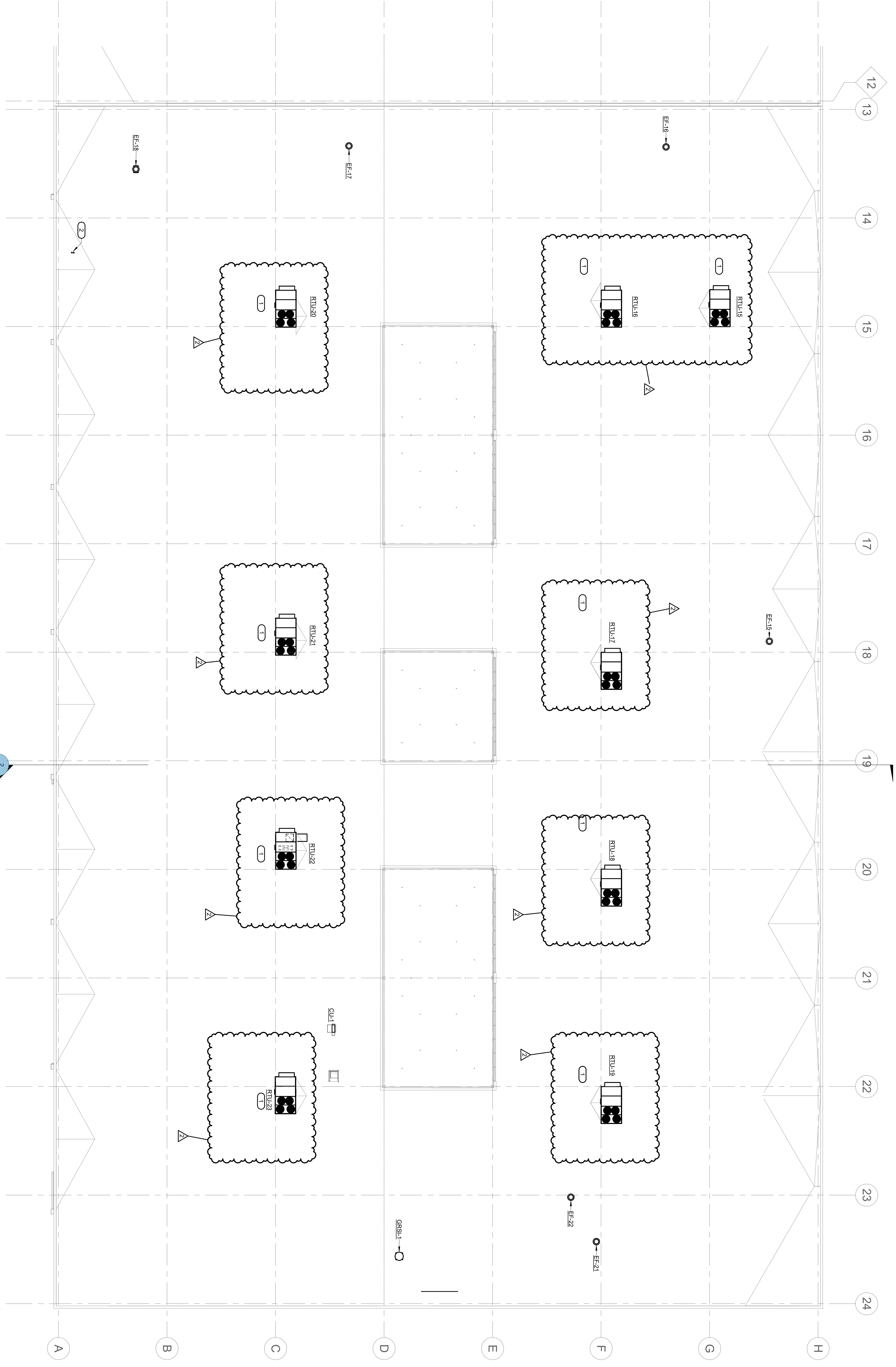
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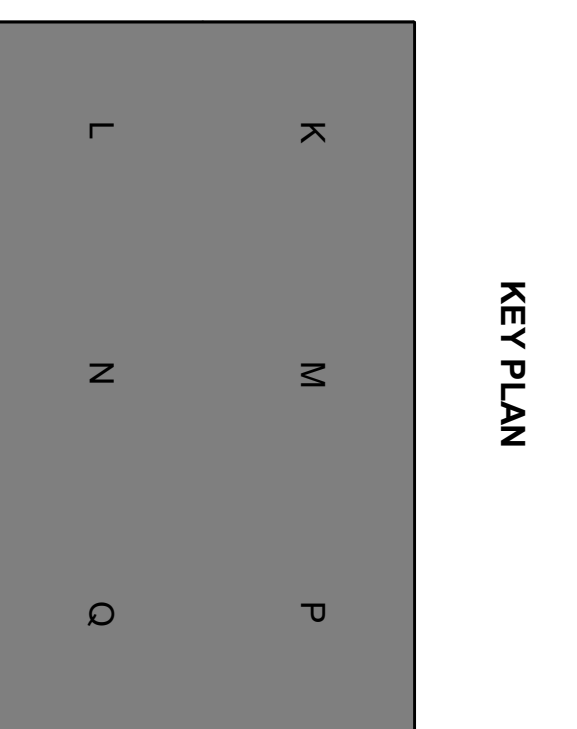
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**1** ROOF - HVAC PLAN



- SHEET NOTES:**
1. REFER TO M001 FOR GENERAL NOTES AND NOTATIONS
  2. ALL BRANCH DUCTWORK TO MATCH INLET NOTED BY THE DUCTWORK OTHERWISE
  3. ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES TO HAVE BALANCE DAMPERS.
- KEYNOTES:**
1. REFER TO SHEETS M202, M203, AND M204 FOR DUCTWORK
  2. REFER TO SHEETS M202, M203, AND M204 FOR CONTINUATION, TERMINATE DUCTWORK WITH GOOSENECK AS SHOWN IN DETAIL, TO ON RECOMMENDATIONS, ENSURE DUCTWORK TERMINATION AS PER AT LEAST 3'-0" FROM EXTENSION PARAMETER.



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

A B C D E F G H

Autodesk Docs/VEGA America Mason Phase II Expansion/MEP23\_23007218.00\_RV/VEGA-0002 Mason Mfg Eng. C.rvt

**M203**

23007218.00

02/26/2024

02/26/2024

23007218.00

VEGA MASON EXPANSION  
MASON RESEARCH AND DEVELOPMENT PARK  
MASON, OH

ROOF - HVAC PLAN

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