

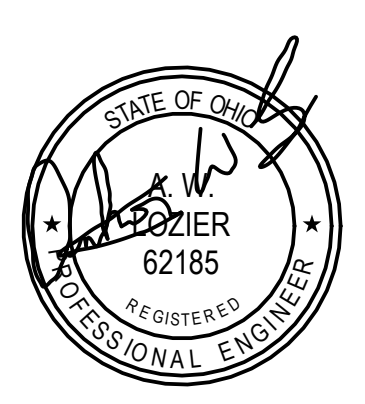
GENERAL NOTES:

- A. ALL WORK SHALL BE INSTALLED WITHIN STRICT COMPLIANCE OF THE 2024 OHIO BUILDING CODE AND THE 2024 OHIO MECHANICAL CODE.
- B. DO NOT SCALE THE DRAWINGS. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET, FITTING, AND COMPONENT. DO NOT USE THE PLANS FOR THE EXACT LOCATION OF EQUIPMENT, FIXTURES, DUCTWORK, OR PIPING. ARCHITECTURAL ITEMS SUCH AS WALLS AND OVERALL DIMENSIONS OF BUILDING COMPONENTS ARE TO BE OBTAINED FROM ARCHITECTURAL DRAWINGS WHEN AVAILABLE.
- C. ALL WORK IS TO BE ACCOMPLISHED WITHIN STRICT COMPLIANCE WITH THE PROJECT SCHEDULE AND THE PROJECT PHASING REQUIREMENTS.
- D. PRIOR TO BID, THE MECHANICAL CONTRACTOR SHALL PERFORM A DETAILED WALK-THROUGH FIELD INSPECTION REVIEWING EXISTING CONDITIONS, STRUCTURE, DEVICE/EQUIPMENT LOCATIONS, AND SHALL MAKE ALL NECESSARY ALLOWANCES FOR ALL REQUIRED DEMOLITION AND NEW WORK PER CONSTRUCTION DOCUMENTATION.
- E. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY.
- F. CONTRACTOR SHALL CAREFULLY COORDINATE DUCTWORK AND PIPING PATHWAYS AND LOCATIONS WITH OTHER TRADES AND EXISTING CONDITIONS. ALL DUCTWORK AND PIPING SHALL BE INSTALLED AS TIGHT TO THE STRUCTURE AS POSSIBLE. CONNECTIONS TO THE SUPPLY AIR DEVICES MAY BE MADE WITH FLEXIBLE DUCTWORK. REFER TO THE DETAIL DRAWINGS FOR FLEXIBLE DUCT CONNECTIONS. ALL CONDITIONS SHALL BE FIELD VERIFIED BEFORE ORDERING EQUIPMENT OR FABRICATED MATERIAL.
- G. CONTRACTOR SHALL PROVIDE ALL ROOF OR WALL NON-COMBUSTIBLE FRAMING AS REQUIRED TO INSTALL EQUIPMENT, PIPING AND DUCTWORK. COORDINATE NEW WORK WITH OTHER TRADES PRIOR TO BEGINNING CONSTRUCTION. NO WORK IS TO BE INSTALLED OR FABRICATED UNTIL AFTER THE PROJECT COORDINATION HAS BEEN APPROVED BY THE OWNER'S REPRESENTATIVE.
- H. INSTALL A MANUAL BALANCE DAMPER IN ALL BRANCH DUCTS, INCLUDING ALL SUPPLY AND EXHAUST GRILLES.
- I. INSTALL A SHUT OFF VALVE IN ALL PIPING BRANCHES.
- J. ALL SQUARE THROATED ELBOWS SHALL HAVE AIRFOIL TURNING VANES AND SHALL ONLY BE USED WHEN RADIUS ELBOWS WILL NOT FIT.
- K. ALL ROUND BRANCH DUCT CONNECTIONS SHALL BE MADE WITH BELLMOUTH FITTINGS OR ANGLED TEES. STRAIGHT SPIN-IN TAP COLLARS SHALL NOT BE ACCEPTABLE.
- L. ALL DAMPERS AND CONTROL COMPONENTS THAT ARE LOCATED ABOVE CEILINGS SHALL BE INSTALLED WHERE COMPLETELY ACCESSIBLE. CONTRACTOR SHALL PROVIDE ACCESS PANELS AS REQUIRED.
- M. ALL VALVES AND CONTROL COMPONENTS THAT ARE LOCATED ABOVE CEILINGS SHALL BE INSTALLED WHERE COMPLETELY ACCESSIBLE. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED.
- N. ALL NEW VARIABLE AIR VOLUME TERMINAL UNITS ARE TO BE INSTALLED WHERE COMPONENTS ARE COMPLETELY ACCESSIBLE. CONTRACTOR SHALL COORDINATE TO PROVIDE THE VAV UNIT WITH A CONTROL ENCLOSURE AND PIPE CONNECTIONS ON THE MOST ACCESSIBLE SIDE OF THE UNIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CORRECT LEFT TO RIGHT HAND CONFIGURATION. REFER TO THE APPLICABLE DETAIL FOR ADDITIONAL REQUIREMENTS.
- O. UNLESS OTHERWISE NOTED, ALL DUCTWORK SHALL BE FABRICATED FROM GALVANIZED STEEL METAL, INSTALLED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR GAUGE, REINFORCEMENT, AND SUPPORT. 2" W.G. PRESSURE CLASS FOR ALL DUCTWORK. ALL JOINTS AND SEAMS SHALL BE SEALED AND FASTENED AND MADE AIRTIGHT IN ACCORDANCE OF CHAPTER 13 OF THE OBC.
- P. CONTRACTOR SHALL TAKE OVERALL CFM MEASUREMENTS ON ALL EXISTING DUCTWORK TO REMAIN PRIOR TO COMMENCING ANY WORK. INFORMATION GATHERED SHALL BE UTILIZED FOR REBALANCING SYSTEM. CONTRACTOR SHALL REBALANCE ALL SYSTEMS AT THE CONCLUSION OF THE PROJECT.
- Q. CONTRACTOR TO VERIFY EXISTING SUPPLY AND RETURN PIPING SYSTEM, SIZE, AND PIPE TYPE PRIOR TO MAKING CONNECTIONS.
- R. DUCTWORK CONNECTION TO DIFFUSER TO BE THE SAME SIZE AS THE DIFFUSER NECK SIZE.
- S. DUCTWORK AND PIPING SHALL BE SUPPORTED INDEPENDENT OF CEILING, CONDUIT, PLUMBING, ETC.
- T. IN AREAS WHERE CEILINGS ARE NOT BEING REPLACED, AND CONTRACTOR HAS WORK ABOVE CEILINGS, CONTRACTOR SHALL PATCH AND REPAIR CEILINGS TO MATCH EXISTING.
- U. CONTRACTOR SHALL COORDINATE ALL REQUIRED WALL PENETRATIONS FOR DUCT AND PIPE WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION OF NEW WALLS. ALL DUCT AND PIPE PENETRATIONS SHALL BE IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING REQUIRED FOR DUCT AND PIPE PENETRATIONS THROUGH WALLS.
- V. CONTRACTOR SHALL COORDINATE ALL REQUIRED ROOF OPENINGS FOR PIPING AND DUCTWORK WITH THE GENERAL CONTRACTOR.
- W. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL STEEL FRAMING AS REQUIRED TO INSTALL ROOF MOUNTED EQUIPMENT CURBS.
- X. CONTRACTOR SHALL INSTALL ALL PIPING, VALVES, INSULATION, SUPPORTS, ETC. AS INDICATED OR AS REQUIRED TO ALLOW OPERATION AND USE OF ALL AREAS AND ALL SYSTEMS REQUIRED FOR OCCUPIED USE DURING CONSTRUCTION.
- Y. UL LISTED FIRESTOPPING SHALL BE USED AT ANY PENETRATION THROUGH A FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR LOCATIONS OF RATED ASSEMBLIES. CONTRACTOR SHALL USE UL LISTED FIRESTOP SYSTEM METHODS FOR "THROUGH-PENETRATION ASSEMBLIES." TYPICAL OF ALL FIRE RATED WALLS.

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ISSUED	DATE
GMP/PERMIT RESPONSE	01/10/2025

MECHANICAL LEGEND: (not all may apply)

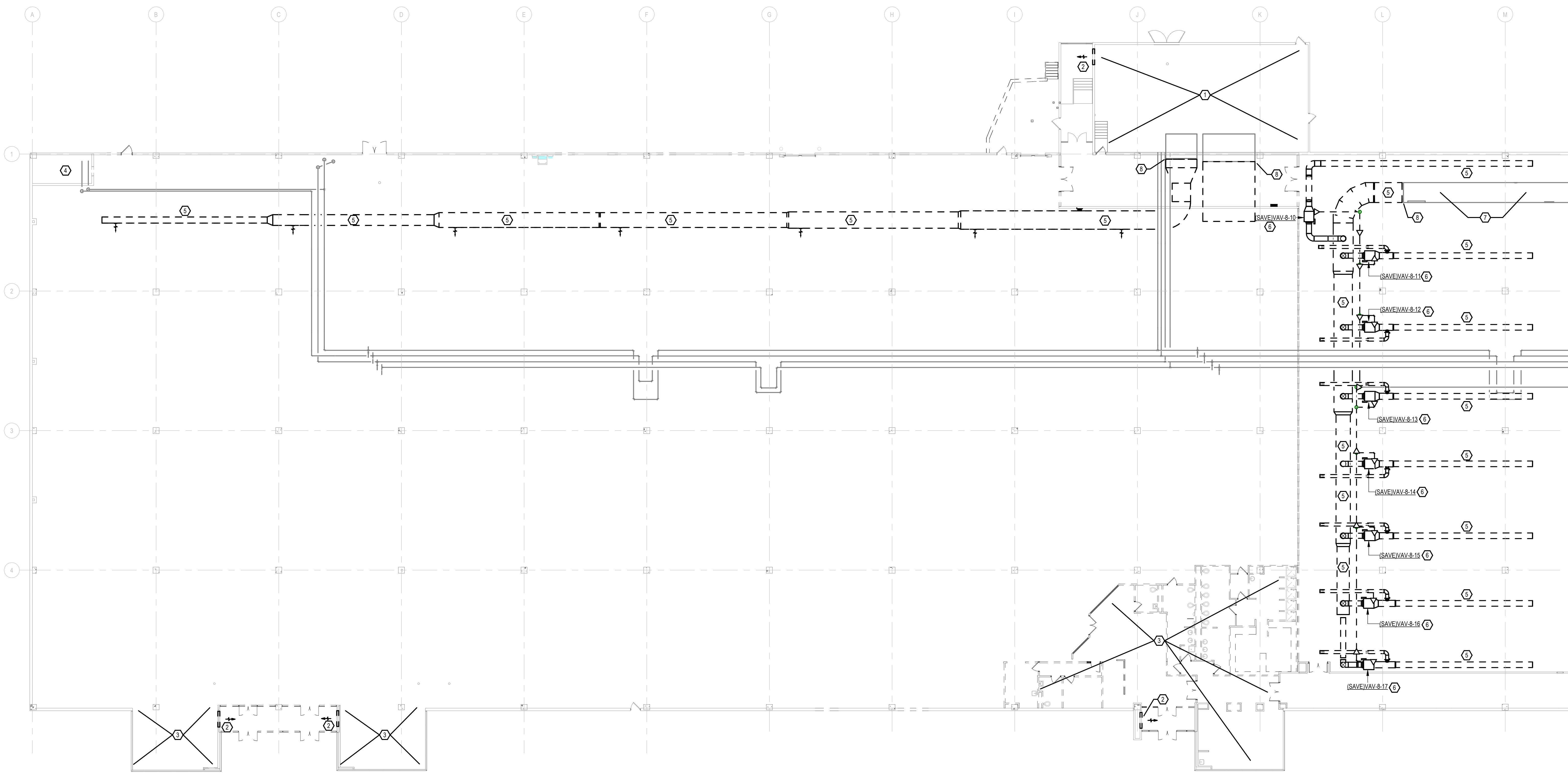
GENERAL ABBREVIATIONS:

AAD	AUTOMATIC AIR DAMPER	CA	COMPRESSED AIR	EC	ELECTRICAL CONTRACTOR	GPH	GALLONS PER HOUR	MOC	MAX OVERCURRENT PROTECTION	RCP	RECIRCULATION PUMP	TI	TEMPERATURE INDICATOR
ABV	AUTOMATIC AIR VENT	CAF	COMBUSTION AIR FAN	EDH	ELECTRIC DUCT HEATER	GPM	GALLONS PER MINUTE	MOW	MAKEUP WATER	RD	ROOF DRAIN	TMV	THERMOSTATIC MIXING VALVE
AB	AIR BLENDER	CCW	COUNTER CLOCKWISE	EF	EXHAUST FAN					REF	REFERENCE	TSP	TOTAL STATIC PRESSURE
AC	AIR CONDITIONING UNIT	CD	CEILING DIFFUSER	EL	ELEVATION	HORIZ	HORIZONTAL	N/A	NOT APPLICABLE	RECD	REQUIRED	TSTAT	THERMOSTAT
ACC	AIR COOLED CONDENSER	CFM	CUBIC FEET PER MINUTE	ELEC	ELECTRICAL	HP	HORSEPOWER	NC	NORMALLY CLOSED / NOISE CRITERIA	REV	REVISED (RON)	TAV	THERMAL EXPANSION VALVE
ACCU	AIR COOLED CONDENSING UNIT	CHV	CHECK VALVE	EG	EXHAUST GRILLE	HR	HOUR	NG	NATURAL GAS	RH	RETURN GRILLE	TYP	TYPICAL
AD	ACCESS DOOR	CH	CHILLER	EQ	EQUAL	HT	HEAT TRACE	NIC	NOT IN CONTRACT	RM	ROOM	TW	TEMPERED WATER
ADL	ADDITIONAL	CHWP	CHILLED WATER PUMP	EQUIP	EQUIPMENT	HVAC	HEATING, VENTILATING AND A/C	NO	NORMALLY OPEN	RTU	ROOFTOP UNIT		
ADJ	ADJUSTABLE	CHWR	CHILLED WATER RETURN	EQUIV	EQUIVALENT	HWP	HOT WATER PUMP	NOM	NOMINAL	RPM	REVOLUTIONS PER MINUTE	UGJDD	UNDERGROUND
AF	AIR FILTER	CHWS	CHILLED WATER SUPPLY	ER	EXHAUST REGISTER	HWR	HOT WATER RETURN	NTS	NOT TO SCALE	RR	RETURN REGISTER	UH	UNIT HEATER
AFV	ABOVE FINISHED FLOOR	CI	CAST IRON	ERV	ENERGY RECOVERY VENTILATOR	HWS	HOT WATER SUPPLY			RTU	ROOFTOP UNIT	UN	UNLESS OTHERWISE NOTED
AHU	AIR HANDLING UNIT	CO	CLEANOUT	ESP	EXTERNAL STATIC PRESSURE	HX	HEAT EXCHANGER	OA	OUTSIDE AIR	RV	RELIEF VENT	UNO	UNLESS NOTED OTHERWISE
ALT	ALTERNATE	COL	COLUMN	OAH	OUTSIDE AIR HOOD			OAH	OUTSIDE AIR HOOD	VA	VENTILATION AIR	VAC	VACUUM
ALUM	ALUMINUM	CONN	CONNECTION	OAL	OUTSIDE AIR LOUVER	IA	INSTRUMENT AIR	OC	ON CENTER	SJA	SUPPLY AIR	VAV	VARIABLE AIR VOLUME
AMP	AMPERE	CJ	CJUT	OC	ON CENTER	IE	INVERT ELEVATION	OC	ON CENTER	SCHW	SCHEDULE	VD	VOLUME DAMPER
AP	ACCESS PANEL	CUH	CUBIC INCH	OC	OCCUPANCY SENSOR	IN	INCH	OSY	OUTSIDE SCREW AND YOKE	SECT	SECTION	VD	VOLUME DAMPER
APPROX	APPROXIMATE	CU FT	CUBIC FEET	EXP	EXPANSION	KEC	KITCHEN EQUIPMENT CONTRACTOR	OZ	OUNCE	SF	SUPPLY FAN	VFD	VARIABLE FREQUENCY DRIVE
ARCH	ARCHITECTURAL	CW	CLOCKWISE	*F	DEGREE FAHRENHEIT	KH	KITCHEN HOOD	PC	PLUMBING CONTRACTOR	SG	SOUND LIVING	VOL	VOLUME
AUTO	AUTOMATIC	CWP	CONDENSING WATER PUMP	FD	FLOOR DRAIN	KV	KITCHEN VENT	PERM	PERIMETER	SHWP	SUPPLY HOT WATER PUMP	VRF	VARIABLE REFRIGERANT FLOW TERMINAL UNIT
AVG	AVERAGE	CWS	CONDENSING WATER SUPPLY	FF	FINISHED FLOOR	KW	KILOWATT	PF	PHASE	SH	SHEET	VRP	VARIABLE REFRIGERANT FLOW HEAT PUMP
BAS	BUILDING AUTOMATION SYSTEM	CWR	CONDENSING WATER RETURN	PC	PLUMBING CONTRACTOR	LAT	LEAVING AIR TEMPERATURE	PH	PHASE	SM	SURFACE MOUNT	W	WITH
BB	BALANCED BACKRAFT DAMPER	DB	DRY BULB TEMPERATURE	PERM	PERIMETER	LB	POUND	PH	PHASE	SPT	STATIC PRESSURE TRANSMITTER	WO	WITHOUT
BE	BOTTOM ELEVATION	DDC	DIRECT DIGITAL CONTROL	FF	FINISHED FLOOR	LD	LINEAR DIFFUSER	PH	PHASE	SQ	SQUARE FOOT (FEET)	WB	WET BULB TEMPERATURE
BFP	BACKFLOW PREVENTER	DET	DETAL	FOT	FUEL OIL RETURN	LW	LEAVING WATER TEMPERATURE	PH	PHASE	SQ IN	SQUARE INCHES	WC	WATER COLUMN
BLP	BRAKE HORSEPOWER	DN	DOWN	FOS	FUEL OIL SUPPLY	LWT	LEAVING WATER TEMPERATURE	PH	PHASE	SR	SUPPLY REGISTER	WG	WATER GAUGE
BLD	BUILDING	DN	DOWN	FOS	FUEL OIL SUPPLY	LWT	LEAVING WATER TEMPERATURE	PH	PHASE	SS	STAINLESS STEEL	WP	WEATHER-PROOF
BLR	BOILER	DN	DOWN	FOS	FUEL OIL SUPPLY	LWT	LEAVING WATER TEMPERATURE	PH	PHASE	STD	STANDARD	XP	EXPLOSION-PROOF
BOD	BOTTOM OF DUCT	DPR	DAMPER	FPC	FIRE PROTECTION CONTRACTOR	MATL	MATERIAL	MAV	MANUAL AIR VENT	STL	STEEL		
BOP	BOTTOM OF PIPE	DPT	DEW POINT TEMPERATURE	PPM	POUNDS PER MINUTE	MBS	MAXIMUM BTU'S PER HOUR, THOUSAND	MAX	MAXIMUM	STRUC	STRUCTURAL		
BOT	BOTTOM	DR	DRAIN	PPVAV	FAN POWERED VAV	MCH	MECHANICAL	MCA	MECHANICAL CONTRACTOR				
BP	BOOSTER PUMP	DWG	DRAWING	PSI	PRESSURE REDUCING VALVE	MIC	MECHANICAL	MCA	MECHANICAL CONTRACTOR				
BTU	BRITISH THERMAL UNIT			PSI	PRESSURE REDUCING VALVE	MIC	MECHANICAL	MCA	MECHANICAL CONTRACTOR				
BTUH	BTUS PER HOUR	EA	EACH / EXHAUST AIR	PSIA	POUND PER SQUARE INCH ABSOLUTE	MISC	MISCELLANEOUS	MISC	MISCELLANEOUS				
BV	BALL VALVE	EAH	EXHAUST AIR HOOD	PSIG	POUND PER SQUARE INCH GAUGE								
BWV	BACKWATER VALVE	EAL	EXHAUST AIR LOUVER	PSI	POUND PER SQUARE INCH								
		EAT	ENTERING AIR TEMPERATURE	PVC	POLYVINYL CHLORIDE								

MECHANICAL SYMBOLS:

	BALANCING VALVE		END CAP		AIR FLOW DIRECTION		THERMOSTAT
	CIRCUIT SENSOR (VENTURI)		FLANGED CONNECTION		PARALLEL BLADE DAMPER		HUMIDISTAT
	GATE VALVE		REDUCER		FIRE DAMPER		CARBON MONOXIDE SENSOR
	BALANCING VALVE		PRESSURE-TEMPERATURE TEST STATION (PTTS)		SMOKE DAMPER		CARBON DIOXIDE SENSOR
	BUTTERFLY VALVE		THERMOMETER		COMBINATION FIRE / SMOKE DAMPER		DUCT SMOKE DETECTOR
	GLOBE VALVE		AIR VENT (A = AUTOMATIC, M = MANUAL)		TEMPERATURE TRANSMITTER		FLEXIBLE PIPE
	BALL VALVE		WATER FLOW TRANSMITTER		BALANCED BACKRAFT DAMPER		POINT OF CONNECTION / REMOVAL
	CHECK VALVE		SUPPLY DIFFUSER		AUTOMATIC AIR DAMPER		DUCT SLOPE UP IN THE DIRECTION OF AIR FLOW
	PLUG VALVE		RETURN DIFFUSER		MANUAL DAMPER		DUCT SLOPE DOWN IN THE DIRECTION OF AIR FLOW
	GAS COCK		EXHAUST DIFFUSER		STATIC PRESSURE TRANSMITTER		EXISTING DUCT OR PIPING TO BE REMOVED
	TEMPERATURE REGULATING VALVE		PENUM SLOT DIFFUSER		CONTROL SYMBOL (A = ANALOG, D = DIGITAL, I = INPUT, O = OUTPUT)		CHWR - CHILLED WATER RETURN
	PRESSURE RELIEF VALVE		DUCT TAP				NEW DUCT OR PIPING
	RELIEF VALVE						EXISTING DUCT OR PIPING TO BE REMOVED
	3-WAY VALVE						HWR - HOT WATER RETURN
							RECTANGULAR DUCT SIZE (S = SUPPLY, R = RETURN, E = EXHAUST, OA = OUTSIDE AIR)
							ROUND DUCT SIZE (S = SUPPLY, R = RETURN, E = EXHAUST, OA = OUTSIDE AIR)
							AIR GRILLE DESIGNATION, SIZE, AND CFM (S = SUPPLY, R = RETURN, E = EXHAUST, OA = OUTSIDE AIR)
							INSULATED DUCTWORK (DIMENSIONS INDICATED ARE SHEET METAL DIMENSIONS)
							DUCT TURN UP / DOWN
							PIPE ELBOW UP / DOWN
							PIPE TEE DOWN

SHEET TITLE: **MECHANICAL LEGEND & ABBREVIATIONS**
 SCALE: 1/8" = 1'-0"
 DRAWN BY: ELEVATOR
 DATE: 01/10/2025
 SHEET: M000

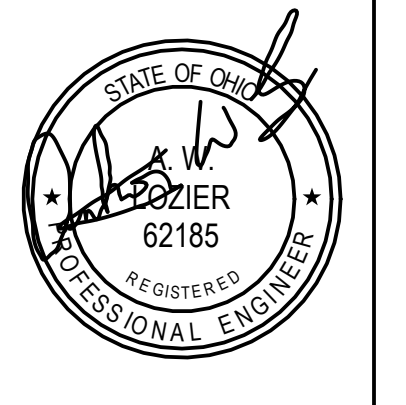


CODED NOTES:

1. EXISTING AHU-9 TO REMAIN. CONTRACTOR TO VERIFY WORKING CONDITION OF UNIT AND COMPONENTS AND PROVIDE SERVICE AS REQUIRED.
2. EXISTING RECESSED CABINET UNIT HEATER TO BE DEMOLISHED AND ARE TO BE REPLACED WITH NEW (SEE NEW WORK PLAN). EXISTING PIPING CONNECTIONS TO REMAIN FOR NEW UNIT.
3. ALL EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK, CONTROLS, AIR DEVICES, ETC. IN THIS AREA TO BE DEMOLISHED U.N.O.
4. EXISTING UNIT HEATER IN RISER ROOM TO REMAIN AND SHALL STAY FULLY FUNCTIONAL DURING CONSTRUCTION.
5. DEMOLISH DUCTWORK AND AIR DEVICES AS INDICATED.
6. EXISTING VAV BOX AND ASSOCIATED CONTROL COMPONENTS TO BE REMOVED AND SAVED FOR REUSE (SEE NEW WORK PLAN). CONTRACTOR TO DEMOLISH EXISTING HOT WATER BRANCH PIPING AS REQUIRED AND CAP AT MAIN. PREP EXISTING PIPING FOR RECONNECTION TO NEW VAVS (SEE NEW WORK PLAN).
7. EXISTING DUCT MAIN TO BE RAISED. REFER TO NEW WORK PLAN FOR MORE DETAIL.
8. STOP DEMOLITION AT THIS POINT. PREP DUCTWORK END FOR RECONNECTION. SEE NEW WORK PLAN.

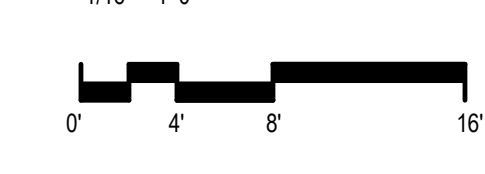
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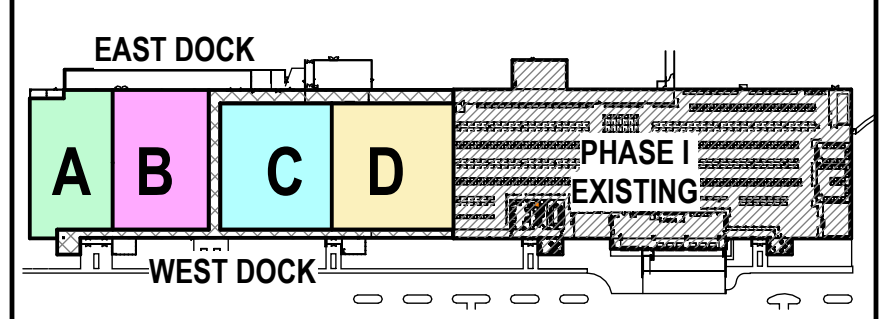


ISSUED	DATE
GMP/PERMIT RESPONSE	01/10/2025

FIRST FLOOR MECHANICAL DEMOLITION PLAN
 1/16" = 1'-0"

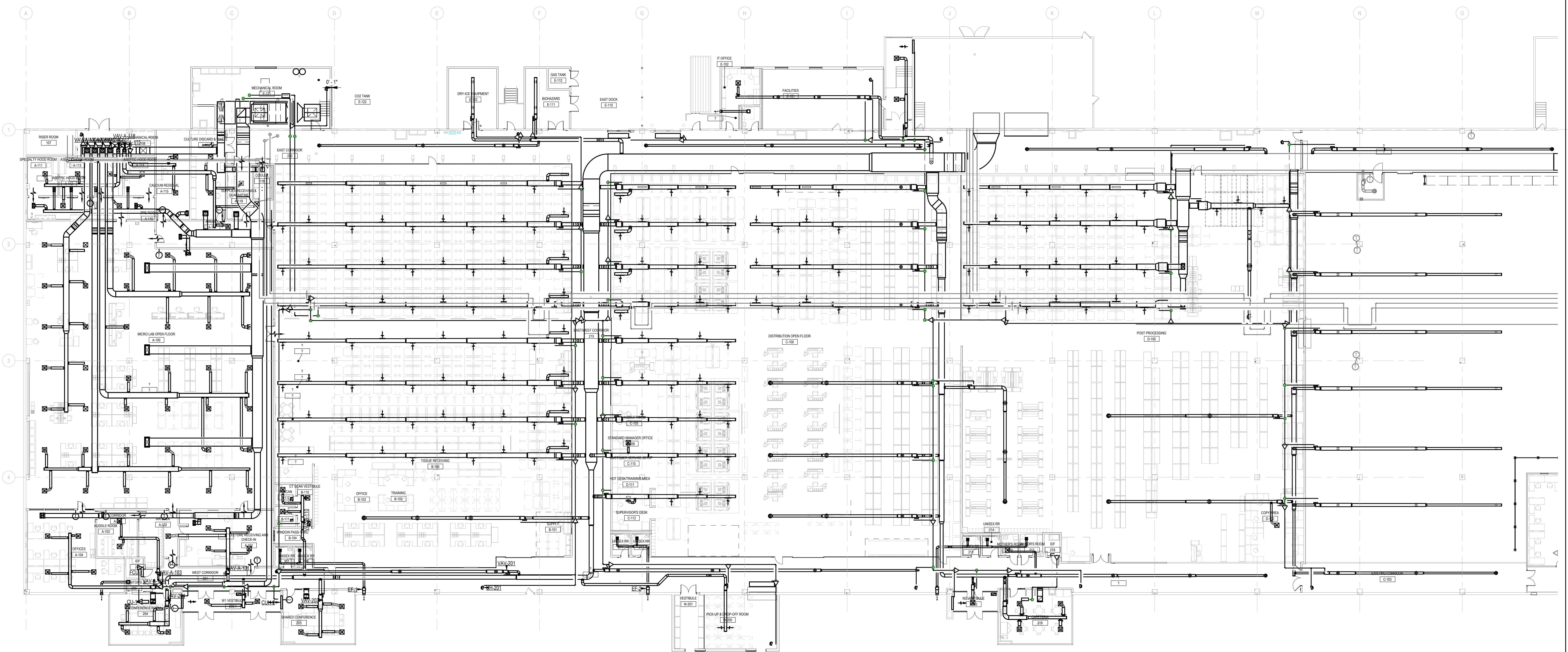


KEY PLAN

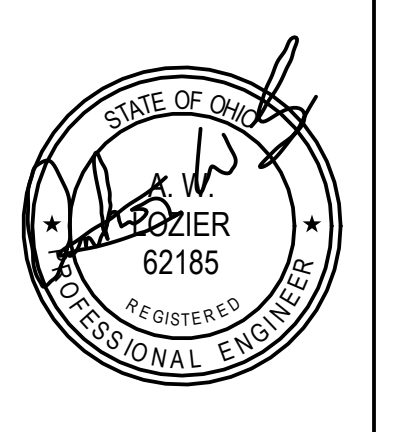
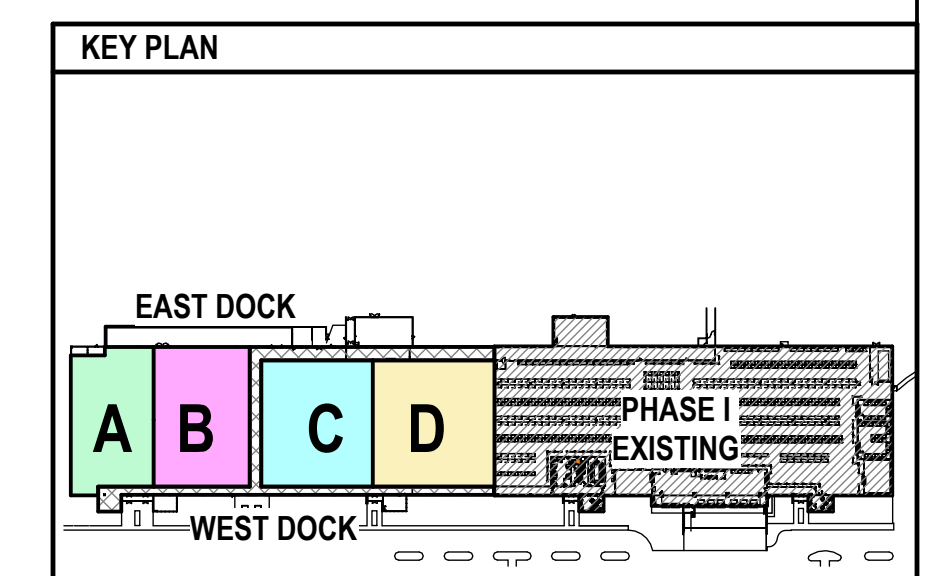


SHEET TITLE	COMM. No.
FIRST FLOOR MECHANICAL DEMO PLAN - AREA A	6-1607
SCALE	DATE
1/16" = 1'-0"	01/10/2025
DRAWN BY	SHEET
ELEVAV	MD111

MD111



OVERALL PLAN - MECHANICAL
 1/16" = 1'-0"
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 MH100

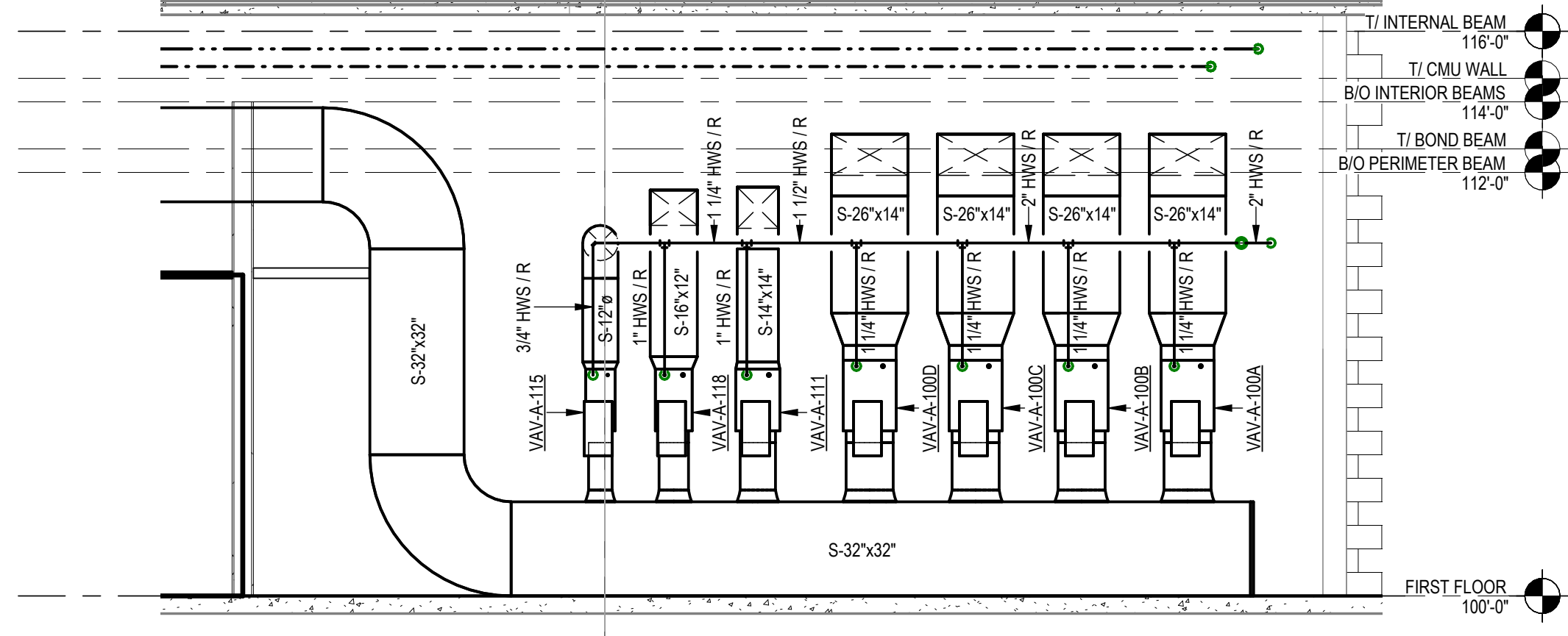


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GMP/PERMIT RESPONSE	01/10/2025

SHEET TITLE
SHEET METAL PLAN - PHASE 2 OVERALL

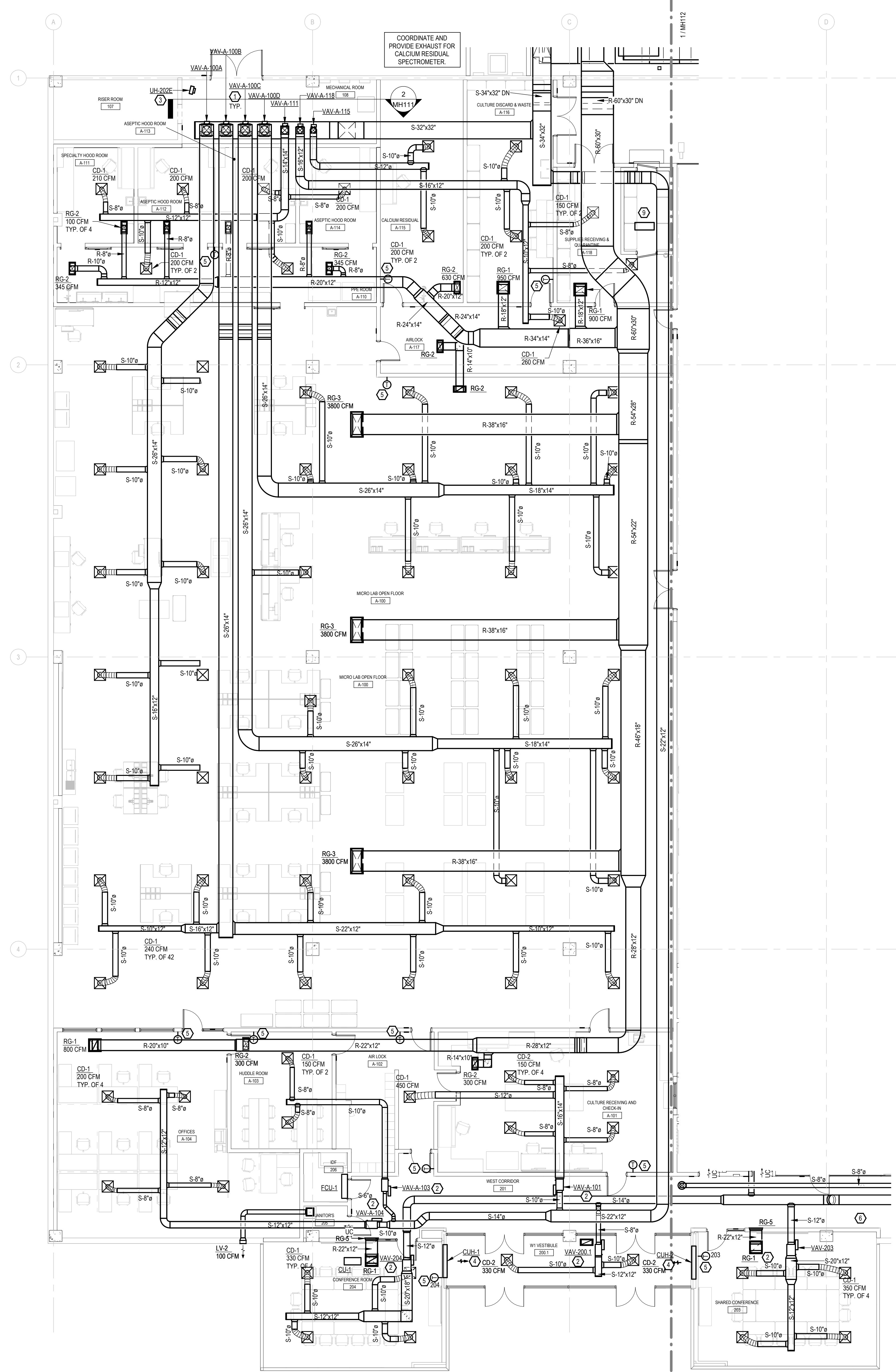
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1/16" = 1'-0"	E-1007
DRAWN BY	DATE
ELEVAV	01/10/2025
SHEET	
MH100	

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MECHANICAL ROOM 108 SECTION VIEW
1/4" = 1'-0"

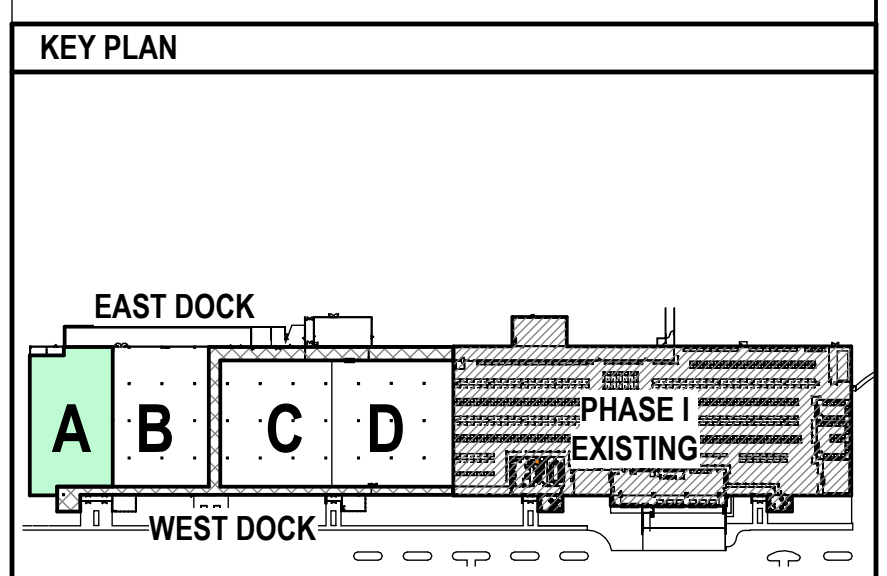
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AREA A SHEET METAL PLAN -
MICRO LAB
1/8" = 1'-0"

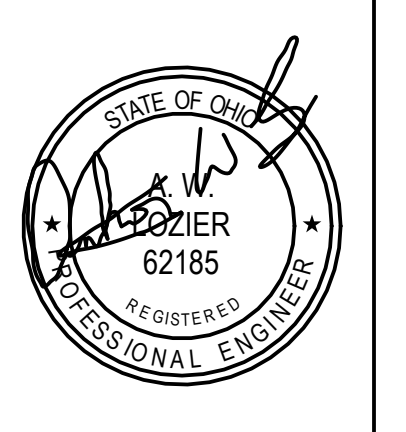
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- CODED NOTES:**
1. PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM ADJACENT WALL.
 2. PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM ADJACENT WALL.
 3. PROVIDE NEW HOT WATER UNIT HEATER SUSPENDED SECURELY FROM STRUCTURE ABOVE.
 4. PROVIDE NEW HOT WATER CABINET UNIT HEATER SECURELY FASTENED TO ADJACENT WALL.
 5. NEW VAV THERMOSTAT. MOUNT AT 5'-0" AFF.
 6. PROVIDE NEW INLINE EXHAUST FAN SUSPENDED FROM STRUCTURE PER MANUFACTURER'S INSTALLATION GUIDELINES. FAN MUST REMAIN ACCESSIBLE FOR SERVICING.
 7. PROVIDE NEW WALL LOUVER. COORDINATE MOUNTING REQUIREMENTS WITH EXISTING WALL. REFER TO SCHEDULE FOR MORE INFORMATION.
 8. PROVIDE NEW HOT WATER AIR HEATED AIR CURTAIN. COORDINATE INSTALLATION LOCATION WITH ROLL UP DOOR ASSEMBLY AND INSTALL PER MANUFACTURER'S GUIDELINES.
 9. COOLER EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO REFRIGERATION DRAWINGS FOR INFORMATION. INSTALLED AND PROVIDED BY OTHERS.
 10. EXISTING VAV TERMINAL UNIT TO BE RELOCATED TO NEW LOCATION AS SHOWN IN DRAWING.
 11. EXTEND AND CONNECT NEW DUCTWORK TO THE EXISTING DUCTWORK AS REQUIRED. EXISTING DUCT INSULATION IS TO BE REPAIRED AS NECESSARY AT THE POINT OF CONNECTION (IF REQUIRED).
 12. PROVIDE NEW FLOOR MOUNTED AHU. REFER TO SCHEDULE FOR MORE INFORMATION.



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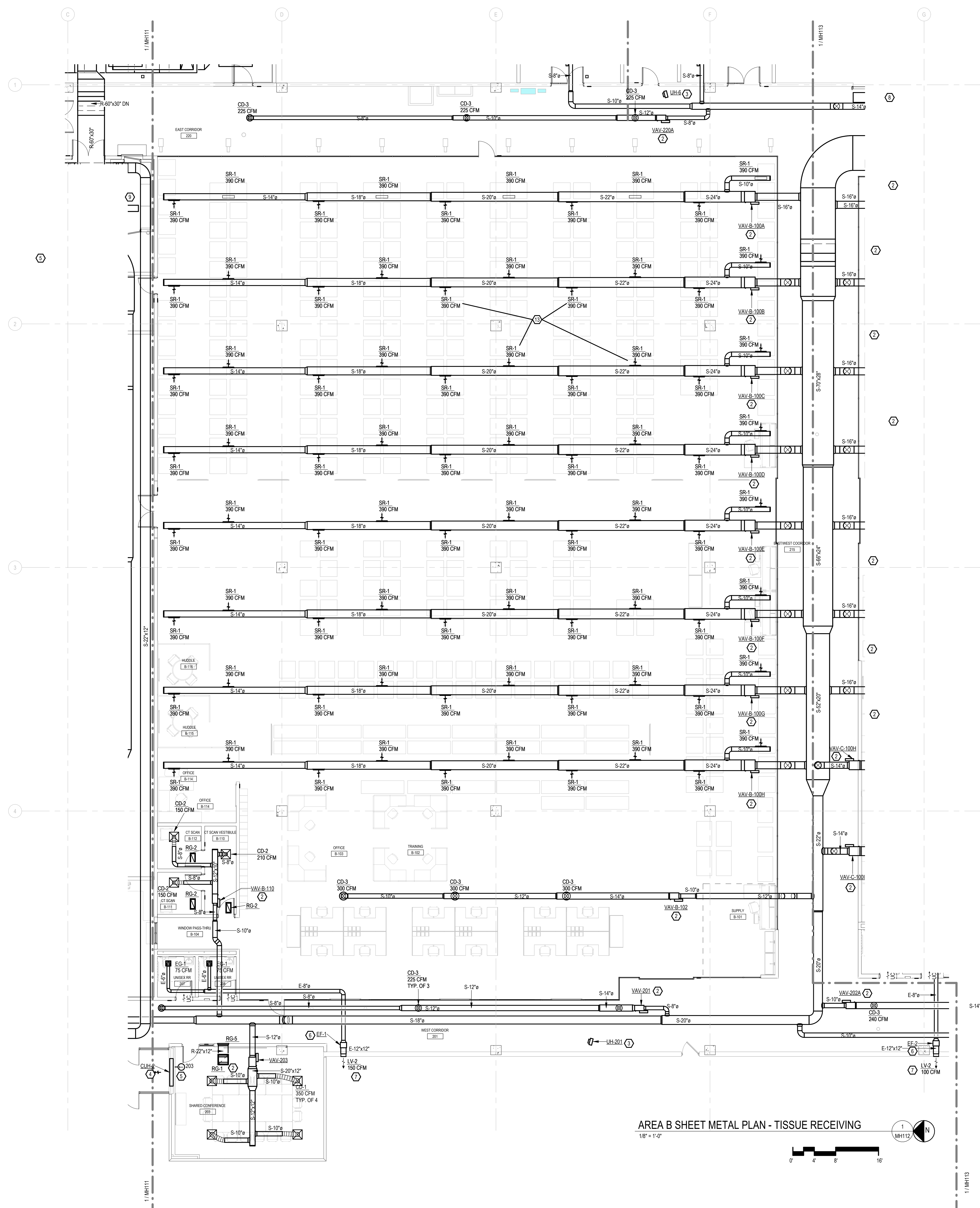
SHEET TITLE
ENLARGED SHEET METAL PLAN - AREA A

SCALE
As Indicated

DRAWN BY
ELEVAR

DATE
01/10/2025

SHEET NO.
MH111



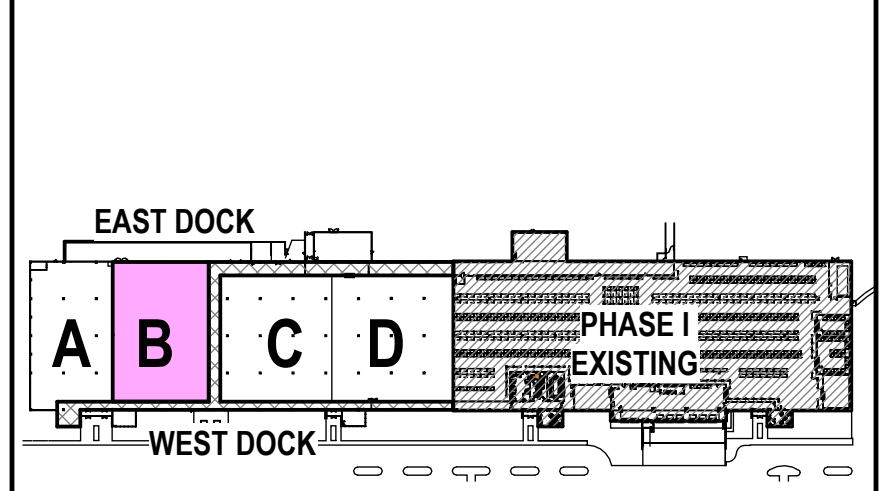
AREA B SHEET METAL PLAN - TISSUE RECEIVING



CODED NOTES:

1. PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM ADJACENT WALL.
2. PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM STRUCTURE ABOVE.
3. PROVIDE NEW HOT WATER UNIT HEATER SUSPENDED SECURELY FROM STRUCTURE ABOVE.
4. PROVIDE NEW HOT WATER CABINET UNIT HEATER SECURELY FASTENED TO ADJACENT WALL.
5. NEW VAV THERMOSTAT. MOUNT AT 5'-0" AFF.
6. PROVIDE NEW INLINE EXHAUST FAN SUSPENDED FROM STRUCTURE PER MANUFACTURER'S INSTALLATION GUIDELINES. FAN MUST REMAIN ACCESSIBLE FOR SERVICING.
7. PROVIDE NEW WALL LOUVER. COORDINATE MOUNTING REQUIREMENTS WITH EXISTING WALL. REFER TO SCHEDULE FOR MORE INFORMATION.
8. PROVIDE NEW HOT WATER AIR HEATED AIR CURTAIN. COORDINATE INSTALLATION LOCATION WITH ROLL UP DOOR ASSEMBLY AND INSTALL PER MANUFACTURER'S GUIDELINES.
9. COOLER EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO REFRIGERATION DRAWINGS FOR INFORMATION. INSTALLED AND PROVIDED BY OTHERS.
10. EXISTING VAV TERMINAL UNIT TO BE RELOCATED TO NEW LOCATION AS SHOWN IN DRAWING.
11. EXTEND AND CONNECT NEW DUCTWORK TO THE EXISTING DUCTWORK AS REQUIRED. EXISTING DUCT INSULATION IS TO BE REPAIRED AS NECESSARY AT THE POINT OF CONNECTION (IF REQUIRED).
12. PROVIDE NEW FLOOR MOUNTED AHU. REFER TO SCHEDULE FOR MORE INFORMATION.
13. SUPPLY GRILLE TO BE ROTATED ON DUCT AT 45° TOWARD THE FLOOR. TYPICAL IN FREEZER/COOLER AREAS.

KEY PLAN



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ISSUED	DATE
GMP/PERMIT RESPONSE	01/10/2025

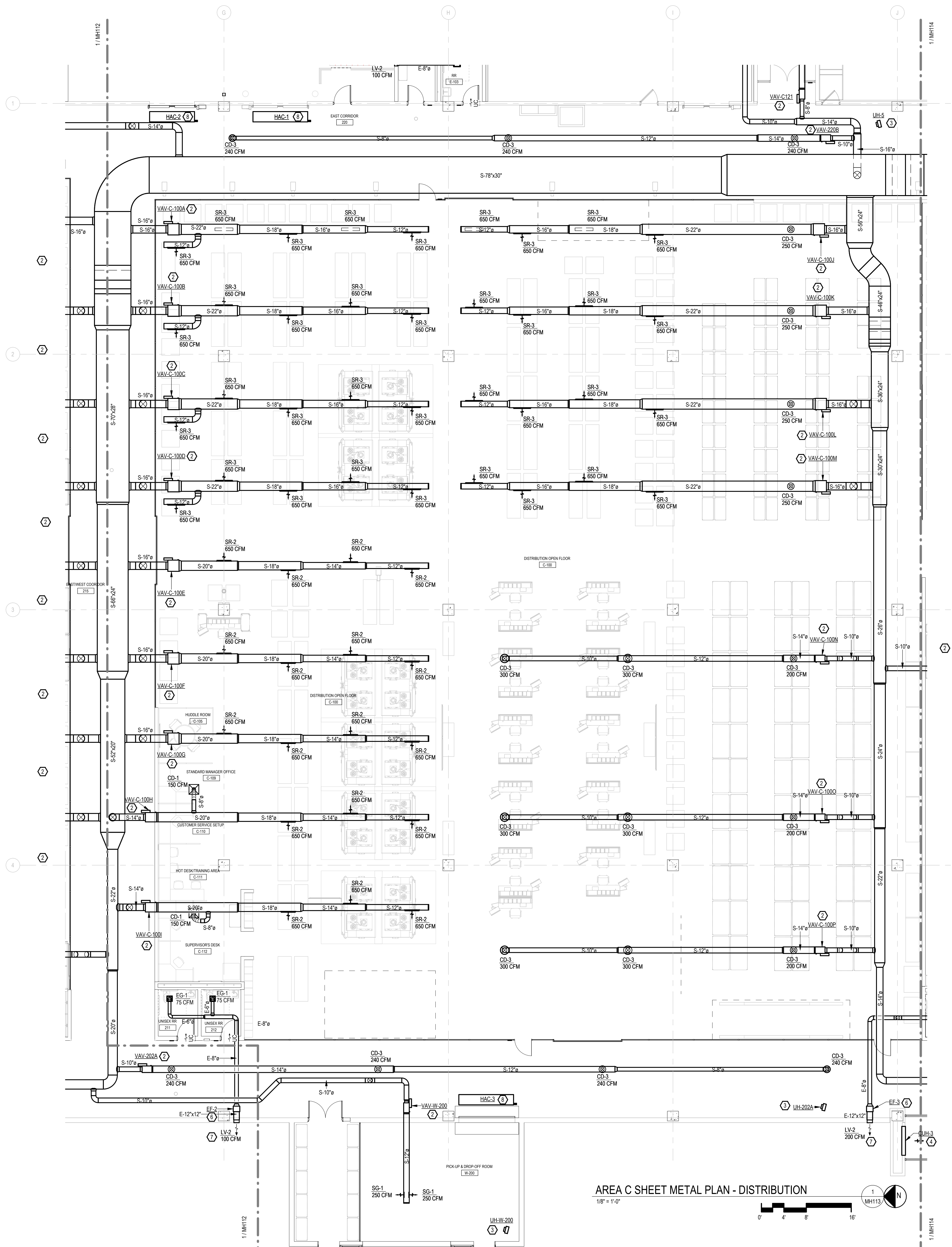
SHEET TITLE
 ENLARGED SHEET METAL PLAN - AREA B

SCALE: 1/8" = 1'-0"
 DRAWN BY: ELEVAVAR
 SHEETS: 01/10/2025

COMM No: E-1607
 DATE: 01/10/2025

MH112

13/02/2025 10:46 AM



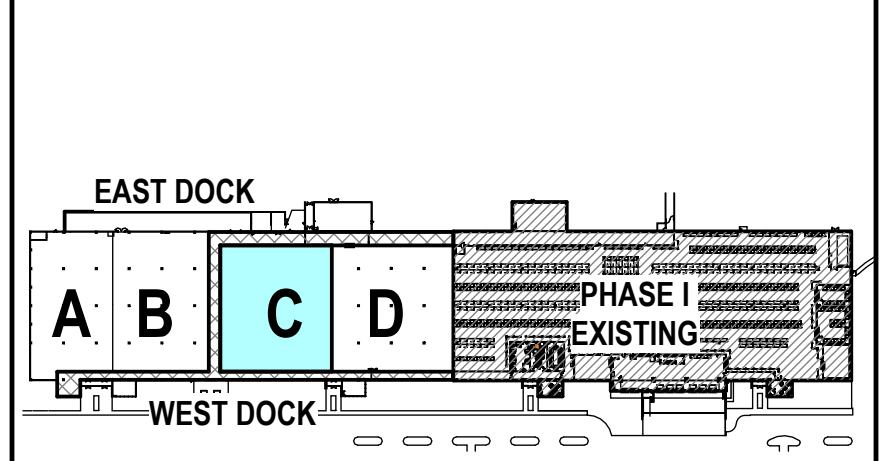
AREA C SHEET METAL PLAN - DISTRIBUTION
1/8" = 1'-0"



CODED NOTES:

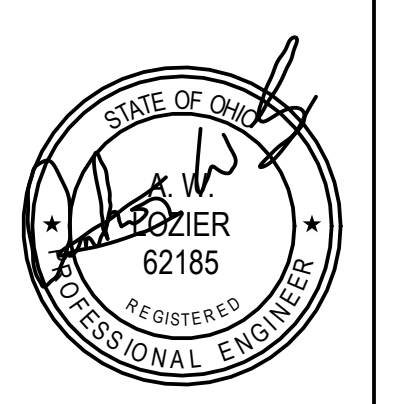
1. PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM ADJACENT WALL.
2. PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM STRUCTURE ABOVE.
3. PROVIDE NEW HOT WATER UNIT HEATER SUSPENDED SECURELY FROM STRUCTURE ABOVE.
4. PROVIDE NEW HOT WATER CABINET UNIT HEATER SECURELY FASTENED TO ADJACENT WALL.
5. NEW VAV THERMOSTAT. MOUNT AT 5'-0" AFF.
6. PROVIDE NEW INLINE EXHAUST FAN SUSPENDED FROM STRUCTURE PER MANUFACTURER'S INSTALLATION GUIDELINES. FAN MUST REMAIN ACCESSIBLE FOR SERVICING.
7. PROVIDE NEW WALL LOUVER. COORDINATE MOUNTING REQUIREMENTS WITH EXISTING WALL. REFER TO SCHEDULE FOR MORE INFORMATION.
8. PROVIDE NEW HOT WATER AIR HEATED AIR CURTAIN. COORDINATE INSTALLATION LOCATION WITH ROLL UP DOOR ASSEMBLY AND INSTALL PER MANUFACTURER'S GUIDELINES.
9. COOLER EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO REFRIGERATION DRAWINGS FOR INFORMATION. INSTALLED AND PROVIDED BY OTHERS.
10. EXISTING VAV TERMINAL UNIT TO BE RELOCATED TO NEW LOCATION AS SHOWN IN DRAWING.
11. EXTEND AND CONNECT NEW DUCTWORK TO THE EXISTING DUCTWORK AS REQUIRED. EXISTING DUCT INSULATION IS TO BE REPAIRED AS NECESSARY AT THE POINT OF CONNECTION (IF REQUIRED).
12. PROVIDE NEW FLOOR MOUNTED AHU. REFER TO SCHEDULE FOR MORE INFORMATION.

KEY PLAN



Solita DESIGN GROUP
555 CARR ST.
CINCINNATI, OH 45203
P: (513) 721-0600 F: (513) 721-0611

SOLVITA
950 FORRER BLVD
KETTERING, OHIO 45420
2900 COLLEGE DRIVE, KETTERING, OHIO 45420
P: (937) 461-3220

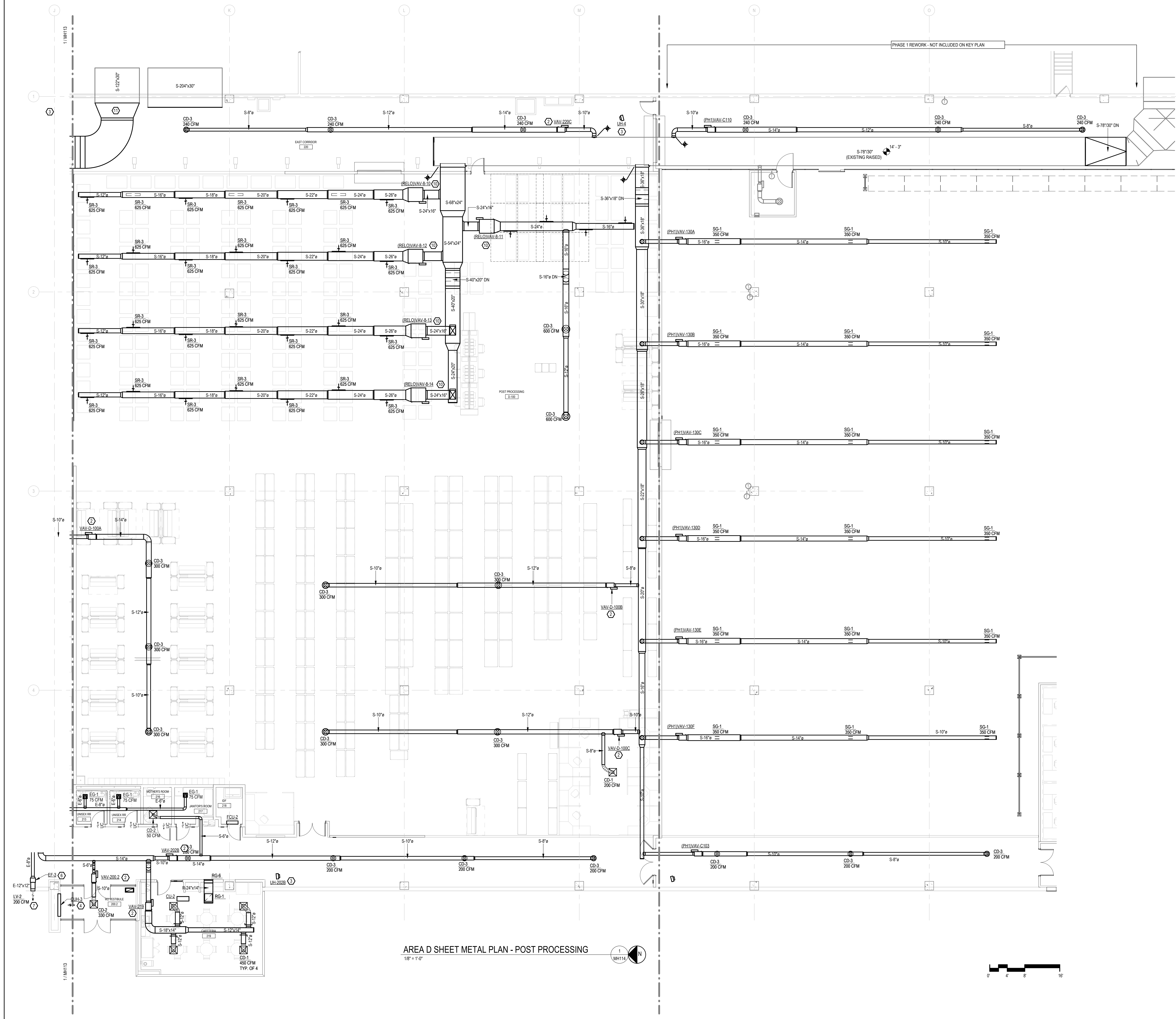


ISSUED	DATE
GMP/PERMIT RESPONSE	01/10/2025

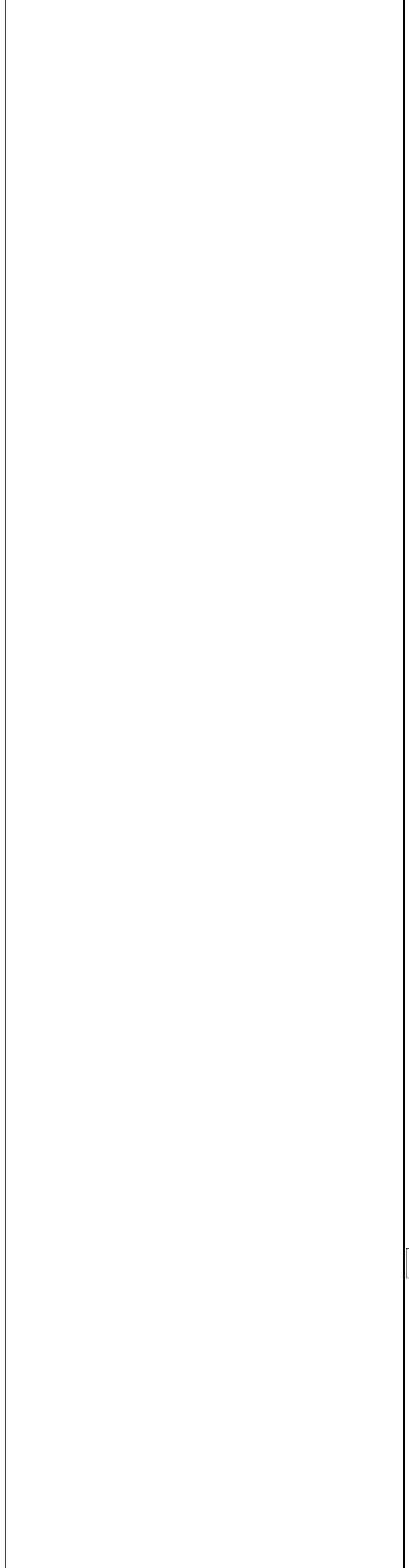
SHEET TITLE
ENLARGED SHEET METAL PLAN - AREA C

SCALE: 1/8" = 1'-0"
DRAWN BY: ELEVVAR
DATE: 01/10/2025

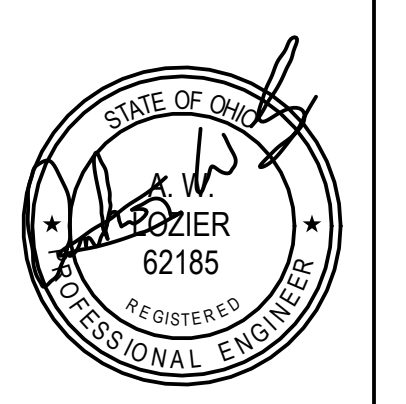
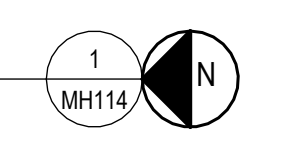
COMM. NO.: E-1687
SHEET: MH113



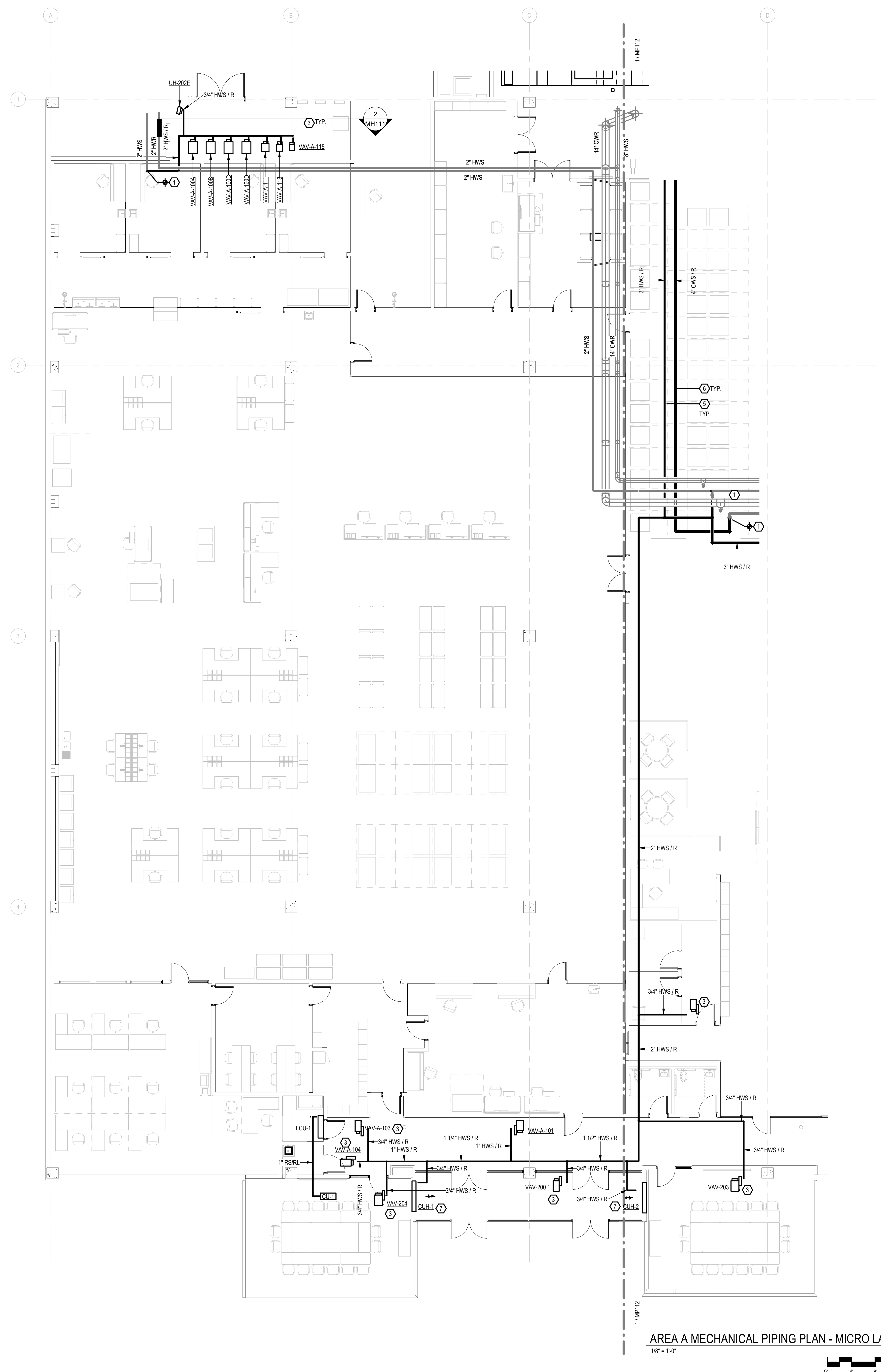
- CODED NOTES:**
1. PROVIDE NEW INLINE EXHAUST FAN SUSPENDED FROM STRUCTURE PER MANUFACTURERS INSTALLATION GUIDELINES. FAN MUST REMAIN ACCESSIBLE FOR SERVICING.
 2. PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM STRUCTURE ABOVE.
 3. PROVIDE NEW HOT WATER UNIT HEATER SUSPENDED SECURELY FROM STRUCTURE ABOVE.
 4. PROVIDE NEW HOT WATER CABINET UNIT HEATER SECURELY FASTENED TO ADJACENT WALL.
 5. NEW VAV THERMOSTAT. MOUNT AT 5'-0" AFF.
 6. PROVIDE NEW INLINE EXHAUST FAN SUSPENDED FROM STRUCTURE PER MANUFACTURERS INSTALLATION GUIDELINES. FAN MUST REMAIN ACCESSIBLE FOR SERVICING.
 7. PROVIDE NEW WALL LOUVER. COORDINATE MOUNTING REQUIREMENTS WITH EXISTING WALL. REFER TO SCHEDULE FOR MORE INFORMATION.
 8. PROVIDE NEW HOT WATER AIR HEATED AIR CURTAIN. COORDINATE INSTALLATION LOCATION WITH ROLL UP DOOR ASSEMBLY AND INSTALL PER MANUFACTURER'S GUIDELINES.
 9. COOLER EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO REFRIGERATION DRAWINGS FOR INFORMATION. INSTALLED AND PROVIDED BY OTHERS.
 10. EXISTING VAV TERMINAL UNIT TO BE RELOCATED TO NEW LOCATION AS SHOWN IN DRAWING.
 11. EXTEND AND CONNECT NEW DUCTWORK TO THE EXISTING DUCTWORK AS REQUIRED. EXISTING DUCT INSULATION IS TO BE REPAIRED AS NECESSARY AT THE POINT OF CONNECTION (IF REQUIRED).
 12. PROVIDE NEW FLOOR MOUNTED AHU. REFER TO SCHEDULE FOR MORE INFORMATION.



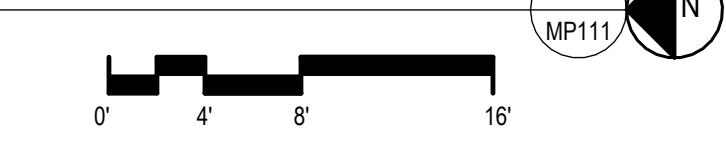
AREA D SHEET METAL PLAN - POST PROCESSING
1/8" = 1'-0"



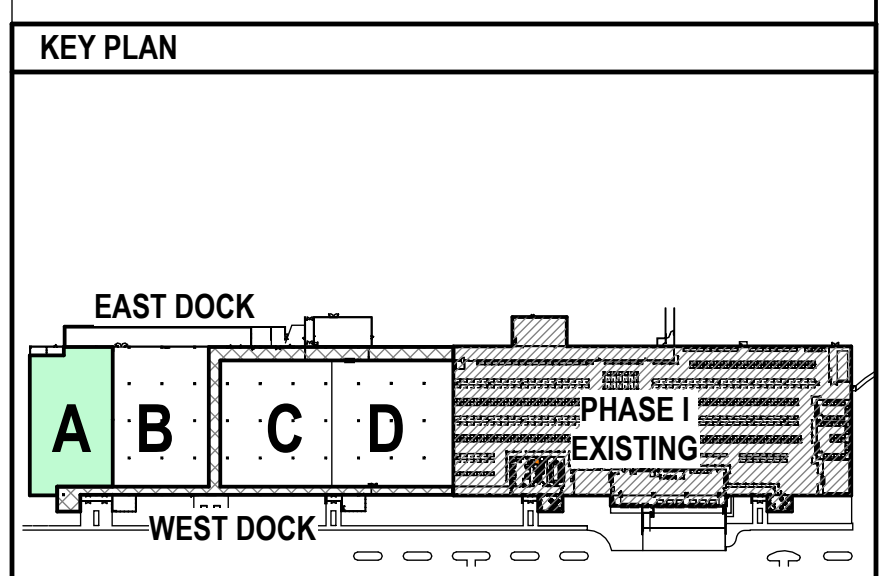
ISSUED	DATE
GMP/PERMIT RESPONSE	01/10/2025



AREA A MECHANICAL PIPING PLAN - MICRO LAB
 1/8" = 1'-0"



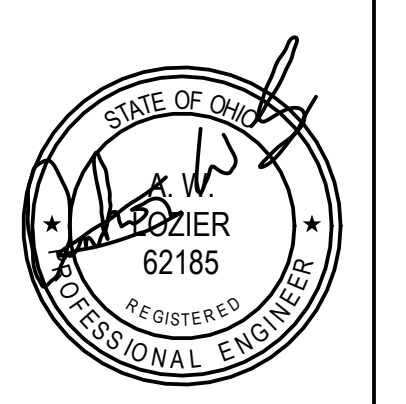
- CODED NOTES:**
1. EXTEND AND CONNECT NEW PIPING TO EXISTING AS REQUIRED.
 2. NOT USED
 3. CONNECT HWS/R PIPING AS REQUIRED TO VAV BOX REHEAT COIL. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
 4. NOT USED
 5. HWS/R PIPING SHOWN AS SINGLE LINE. PIPES SHALL RUN PARALLEL TO EACH OTHER. COORDINATE EXACT ROUTING IN FIELD.
 6. CHWS/R PIPING SHOWN AS SINGLE LINE. PIPES SHALL RUN PARALLEL TO EACH OTHER. COORDINATE EXACT ROUTING IN FIELD.
 7. NOT USED



Solvita DESIGN GROUP
 555 CARR ST.
 CINCINNATI, OH 45203
 P: (513) 721-0600 F: (513) 721-0611

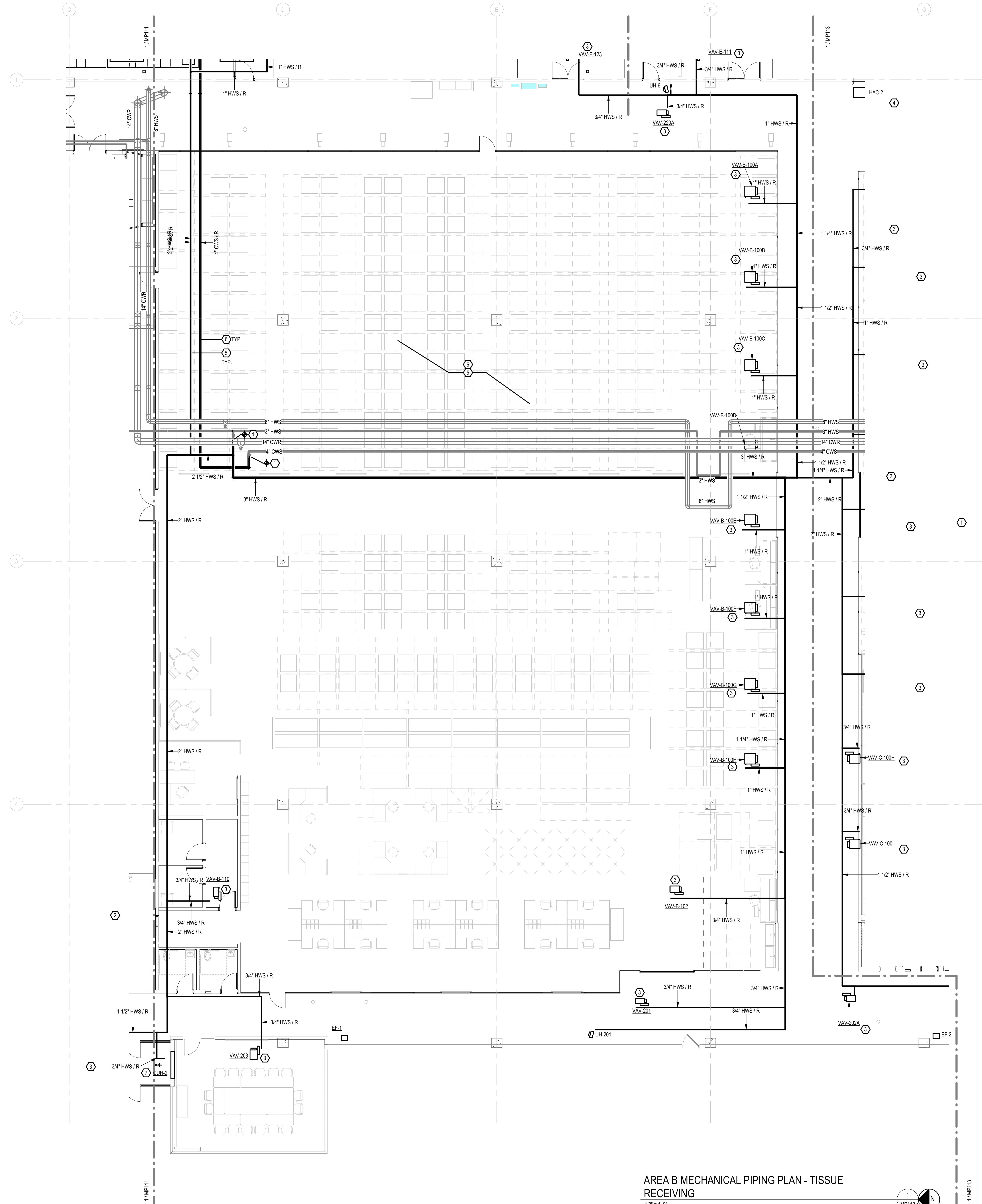
Solvita DESIGN GROUP
 349 SOUTH MAIN STREET
 DAYTON, OH 45402-2715
 P: (937) 461-3220

SOLVITA - 950 FORRER BLVD RENOVATION - PHASE 2
 950 FORRER BLVD
 KETTERING, OHIO 45420
SOLVITA
 2900 COLLEGE DRIVE, KETTERING, OHIO 45420



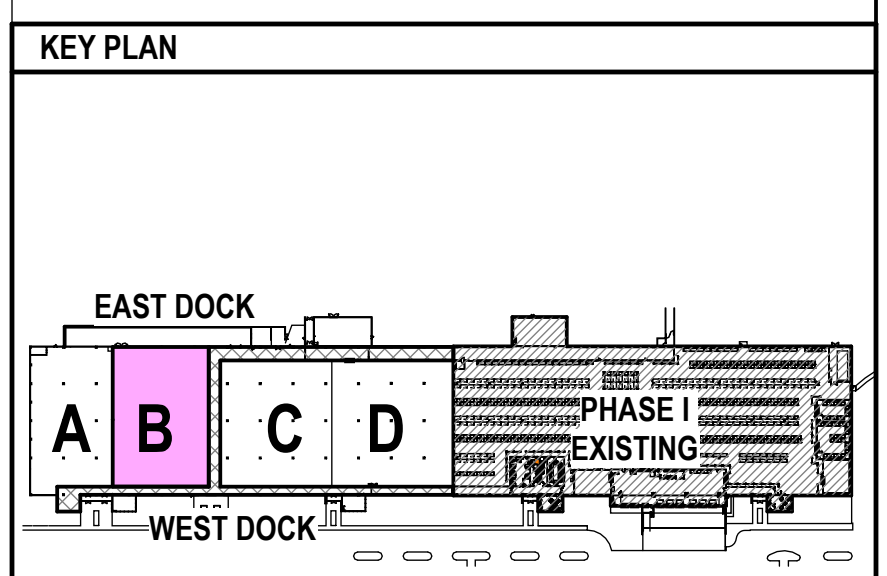
ISSUED	DATE
GMP/PERMIT RESPONSE	01/10/2025

SHEET TITLE
ENLARGED MECHANICAL PIPING PLAN - AREA A
 SCALE 1/8" = 1'-0" COMM. No. E-13687
 DRAWN BY DATE
 ELEVAR 01/10/2025
 SHEET: **MP111**



- CODED NOTES:**
1. EXTEND AND CONNECT NEW PIPING TO EXISTING AS REQUIRED.
 2. NOT USED
 3. CONNECT HWS/R PIPING AS REQUIRED TO VAV BOX REHEAT COIL. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
 4. NOT USED
 5. HWS/R PIPING SHOWN AS SINGLE LINE. PIPES SHALL RUN PARALLEL TO EACH OTHER. COORDINATE EXACT ROUTING IN FIELD.
 6. CWS/R PIPING SHOWN AS SINGLE LINE. PIPES SHALL RUN PARALLEL TO EACH OTHER. COORDINATE EXACT ROUTING IN FIELD.
 7. NOT USED

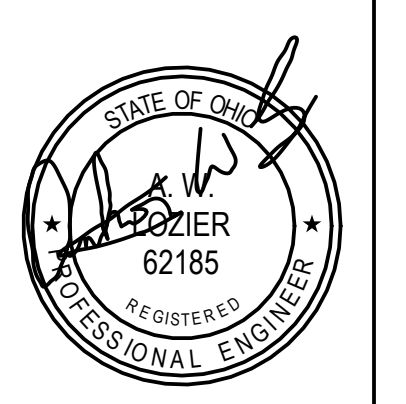
AREA B MECHANICAL PIPING PLAN - TISSUE RECEIVING
 1/8" = 1'-0"
 0 4 8 16'
 1/8" MP112
 1/8" MP113



SOLVITA DESIGN GROUP
 555 CARR ST.
 CINCINNATI, OH 45203
 P: (513) 721-0600 F: (513) 721-0611

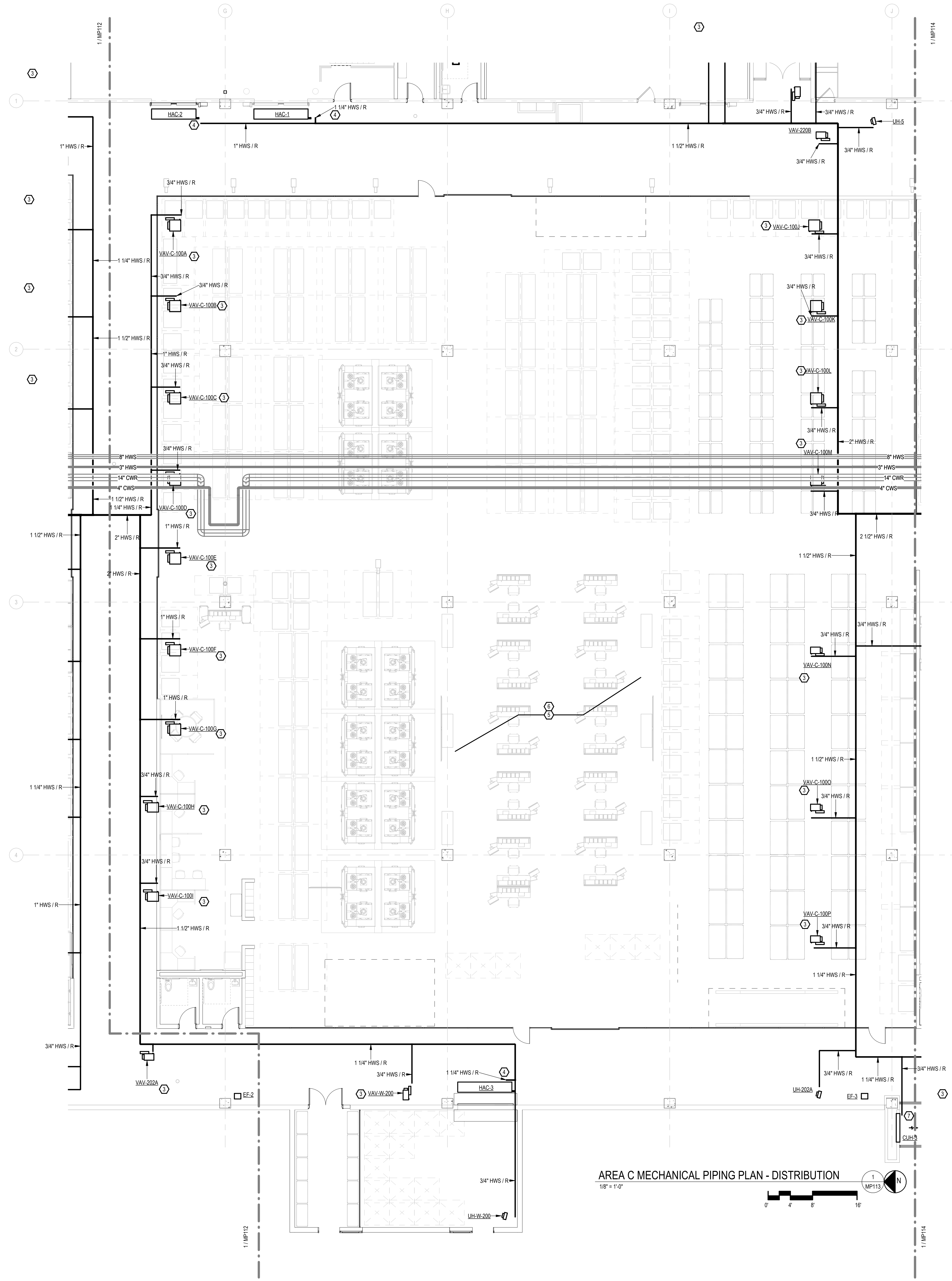
Solvita
 349 SOUTH MAIN STREET
 DAYTON, OH 45402-2715
 P: (937) 461-3220

SOLVITA - 950 FORRER BLVD RENOVATION - PHASE 2
 950 FORRER BLVD
 KETTERING, OHIO 45420
SOLVITA
 2900 COLLEGE DRIVE, KETTERING, OHIO 45420



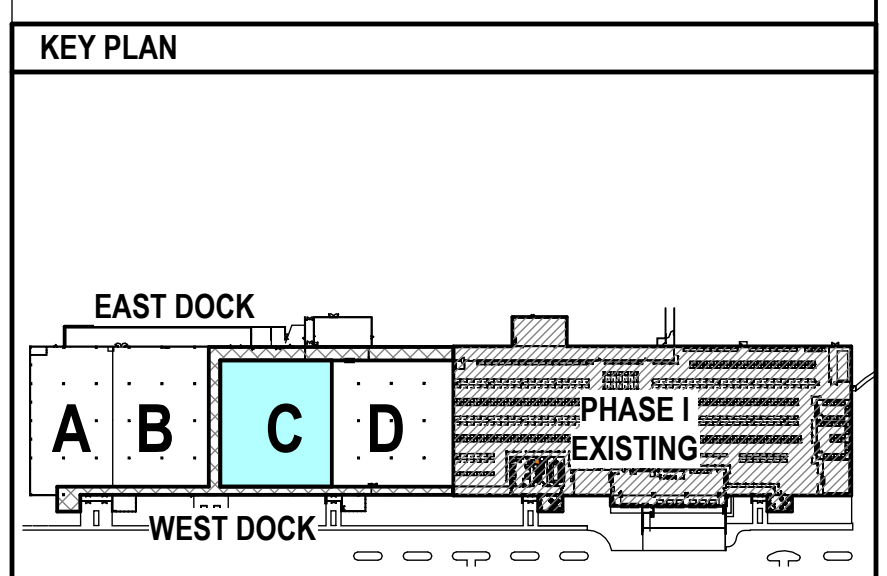
ISSUED	DATE
GMP/PERMIT RESPONSE	01/10/2025

SHEET TITLE: **ENLARGED MECHANICAL PIPING PLAN - AREA B**
 SCALE: 1/8" = 1'-0"
 DRAWN BY: ELEVVAR
 DATE: 01/10/2025
 SHEET: **MP112**



AREA C MECHANICAL PIPING PLAN - DISTRIBUTION
1/8" = 1'-0"

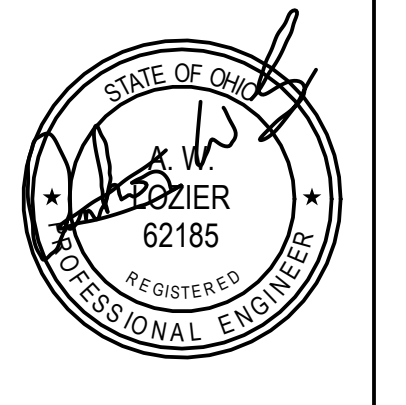
- CODED NOTES:**
1. EXTEND AND CONNECT NEW PIPING TO EXISTING AS REQUIRED.
 2. NOT USED
 3. CONNECT HWS/R PIPING AS REQUIRED TO VAV BOX REHEAT COIL. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
 4. CONNECT HWS/R PIPING AS REQUIRED TO AIR CURTAIN HOT WATER COIL. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
 5. HWS/R PIPING SHOWN AS SINGLE LINE. PIPES SHALL RUN PARALLEL TO EACH OTHER. COORDINATE EXACT ROUTING IN FIELD.
 6. CWS/R PIPING SHOWN AS SINGLE LINE. PIPES SHALL RUN PARALLEL TO EACH OTHER. COORDINATE EXACT ROUTING IN FIELD.
 7. EXTEND AND CONNECT NEW HWS/R PIPING TO EXISTING CABINET UNIT HEATER PIPING AS REQUIRED.



elevator
DESIGN GROUP
555 CARR ST.
CINCINNATI, OH 45203
P: (513) 721-0600 F: (513) 721-0611

Solita
DESIGN GROUP
349 SOUTH MAIN STREET
DAYTON, OH 45402-2715
P: (937) 461-3220

SOLVITA - 950 FORRER BLVD RENOVATION - PHASE 2
950 FORRER BLVD
KETERING, OHIO 45420
SOLVITA
2900 COLLEGE DRIVE, KETERING, OHIO 45420



ISSUED	DATE
GMP/PERMIT RESPONSE	01/10/2025

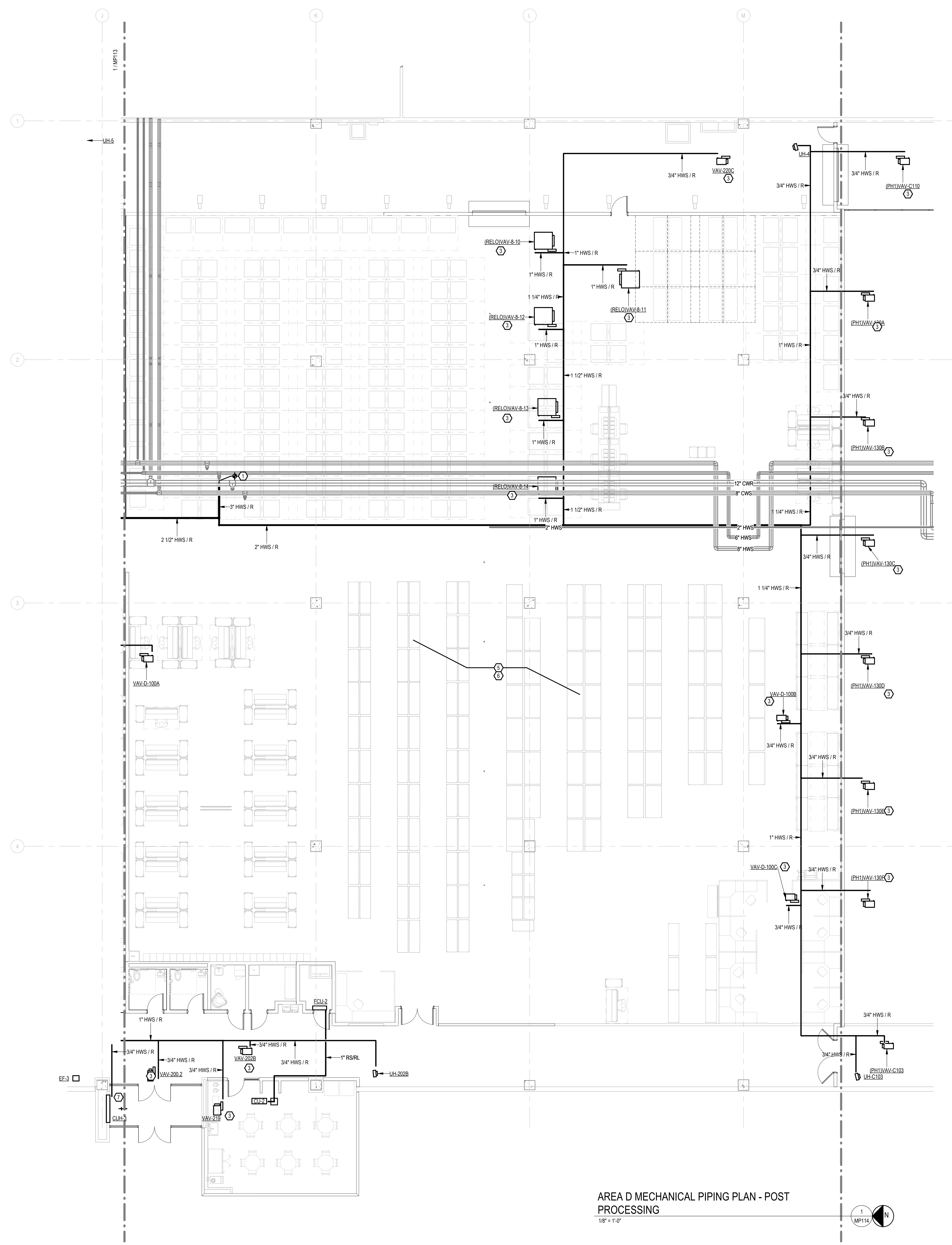
SHEET TITLE
ENLARGED MECHANICAL PIPING PLAN - AREA C

SCALE
1/8" = 1'-0"

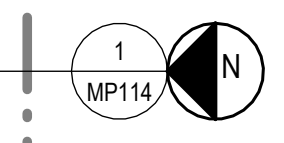
DRAWN BY
ELEVATOR

DATE
01/10/2025

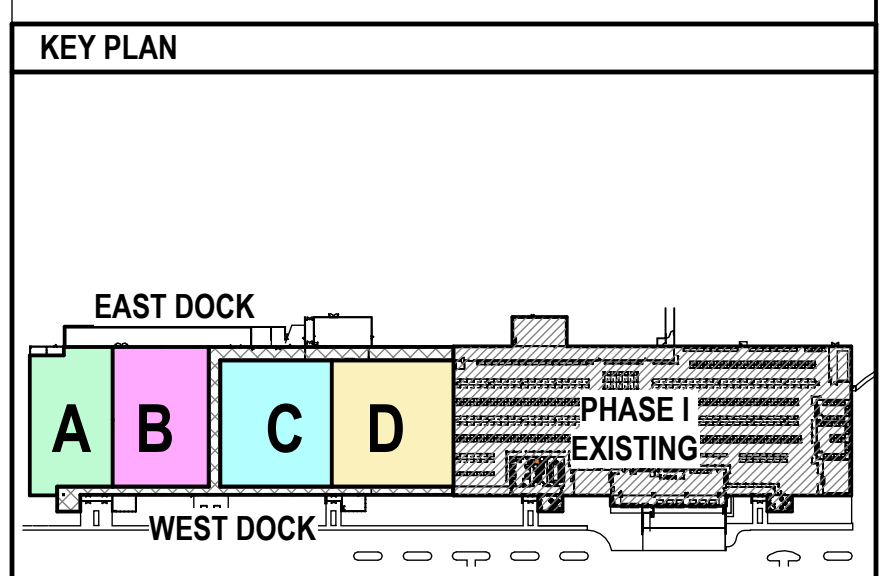
SHEET NO.
MP113



AREA D MECHANICAL PIPING PLAN - POST PROCESSING
1/8" = 1'-0"



- CODED NOTES:**
1. EXTEND AND CONNECT NEW PIPING TO EXISTING AS REQUIRED.
 2. NOT USED
 3. NOT USED
 4. NOT USED
 5. HWS/R PIPING SHOWN AS SINGLE LINE. PIPES SHALL RUN PARALLEL TO EACH OTHER. COORDINATE EXACT ROUTING IN FIELD.
 6. CWS/R PIPING SHOWN AS SINGLE LINE. PIPES SHALL RUN PARALLEL TO EACH OTHER. COORDINATE EXACT ROUTING IN FIELD.
 8. NOT USED



SHEET TITLE
ENLARGED MECHANICAL PIPING PLAN - AREA D

SCALE
1/8" = 1'-0"

DRAWN BY
ELEVVAR

DATE
01/10/2023

SHEET NO.
MP114

COMM. NO.
E-1887

DATE
01/10/2023

ISSUED
GMP/PERMIT RESPONSE

DATE
01/10/2023

DATE
01/10/2023

DATE
01/10/2023

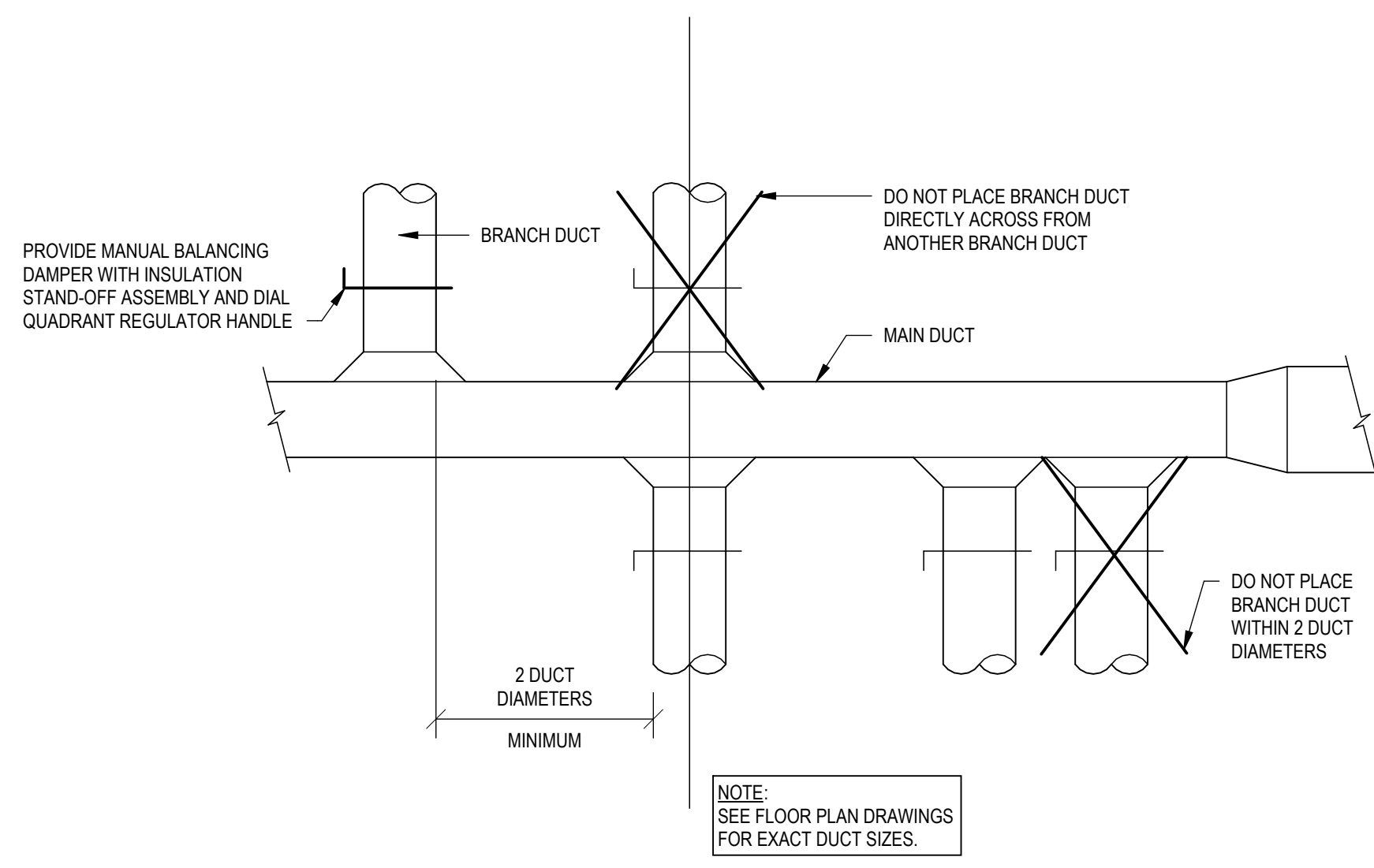
DATE
01/10/2023

Solvita DESIGN GROUP
555 CARR ST.
CINCINNATI, OH 45203
P: (513) 721-0600 F: (513) 721-0611

SOLVITA
950 FORRER BLVD
KETTERING, OHIO 45420
2900 COLLEGE DRIVE, KETTERING, OHIO 45420

PROFESSIONAL ENGINEER
STATE OF OHIO
62185
RE-REGISTERED

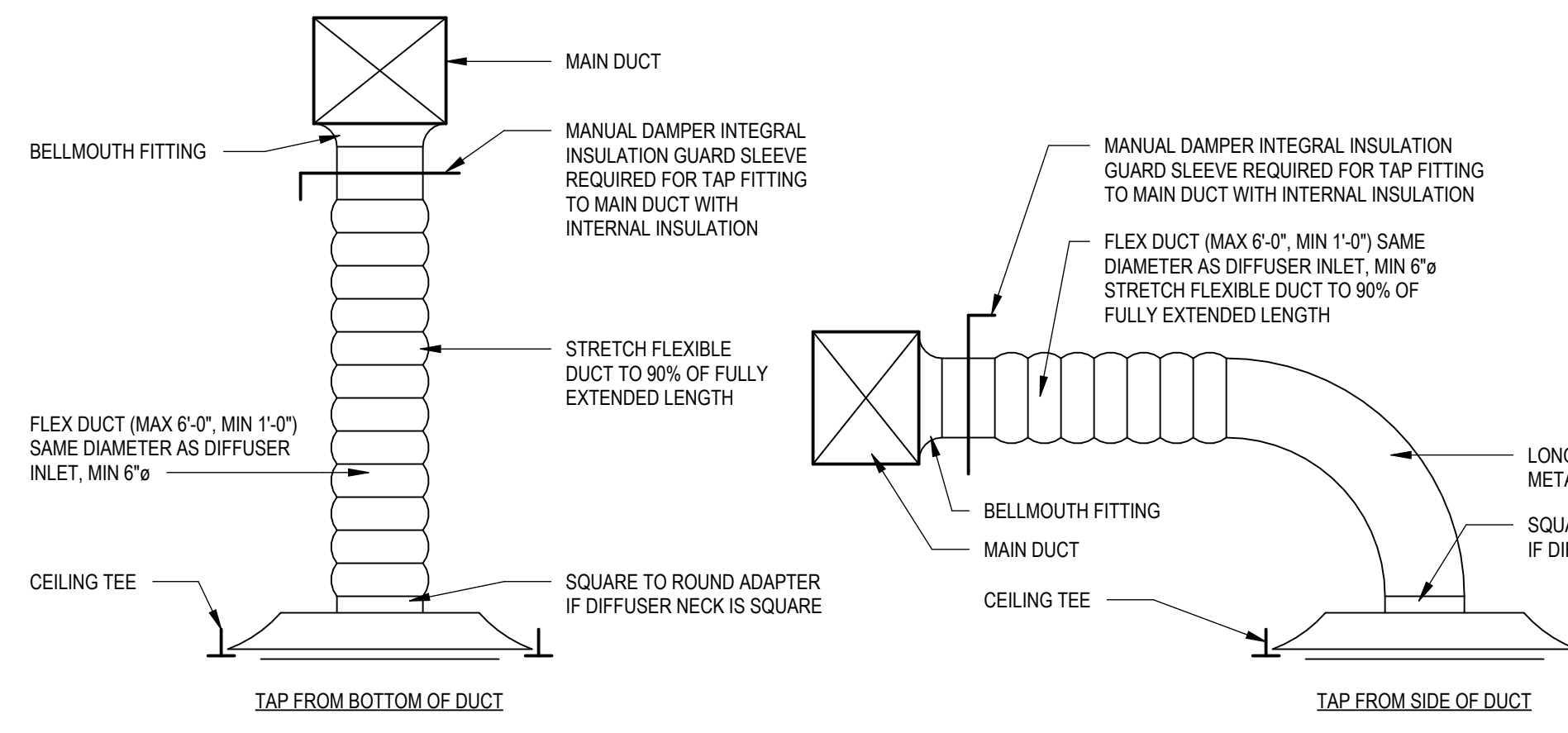
ISSUED
GMP/PERMIT RESPONSE



BRANCH DUCT CONNECTIONS

NOT TO SCALE

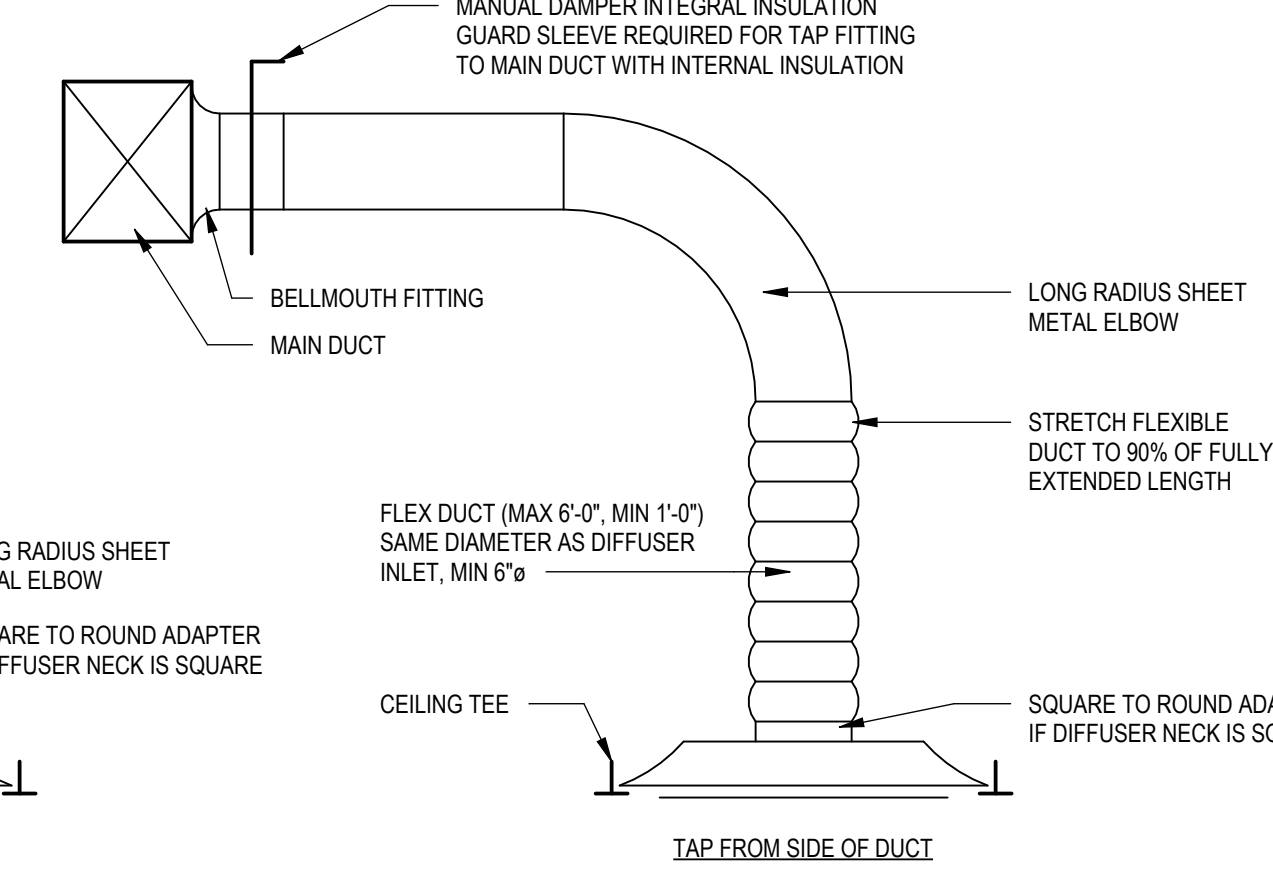
1
M500



CEILING DIFFUSER CONNECTIONS

NOT TO SCALE

2
M500



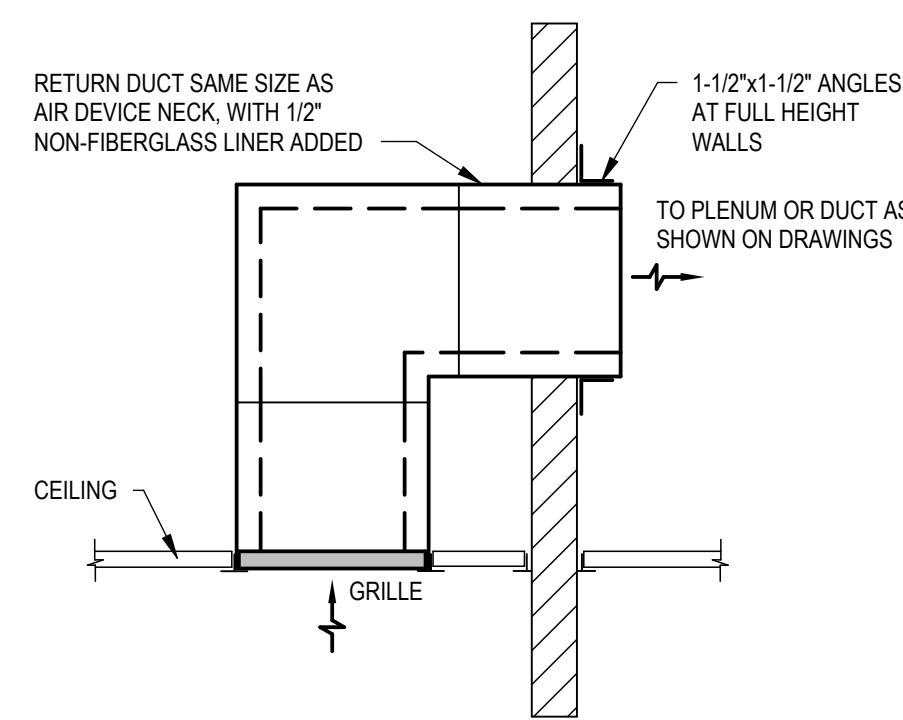
OFFSET GREATER THAN 1/2 DEPTH OF DUCT

OFFSET LESS THAN 1/2 DEPTH OF DUCT

DUCT OFFSET

NOT TO SCALE

3
M500

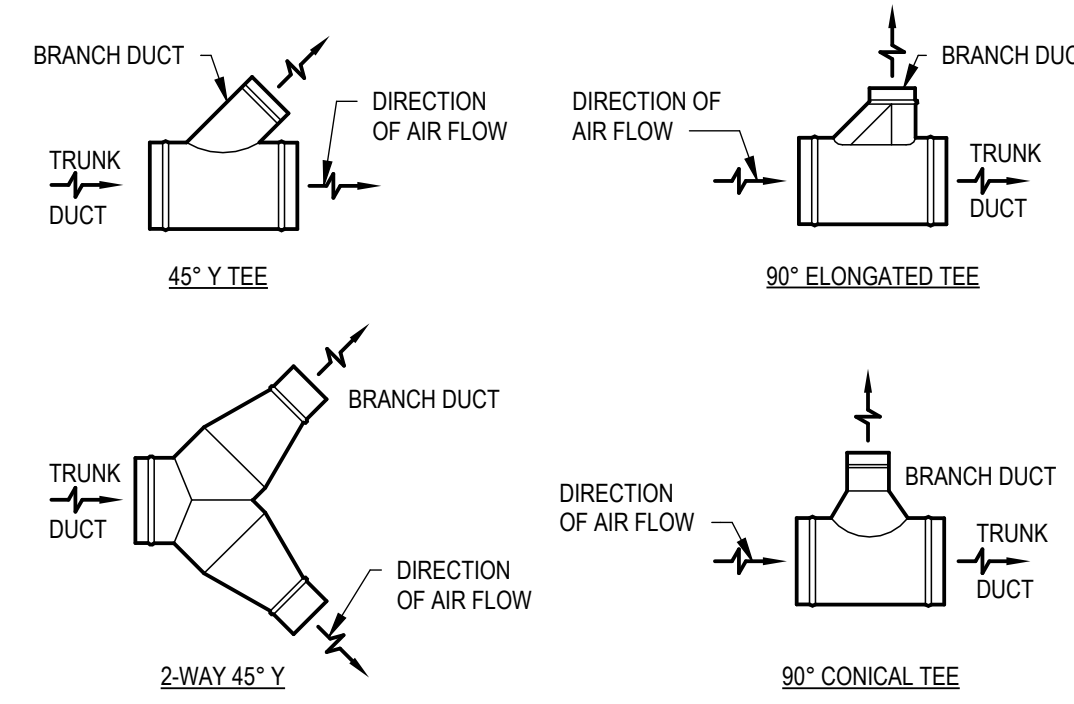


- NOTES:**
- SUPPORT SOUND ATTENUATING PLENUM FROM STRUCTURE ABOVE.
 - COORDINATE GRILLE LOCATION WITH STEEL, CEILING GRID, LIGHTS, SUPPLY DIFFUSERS, AND OTHER TRADES.
 - WHERE WALLS EXTEND TO THE DECK, SEAL WALL OPENING WITH 1-1/2" ANGLE FRAMING.

RETURN TRANSFER DUCT

NOT TO SCALE

4
M500

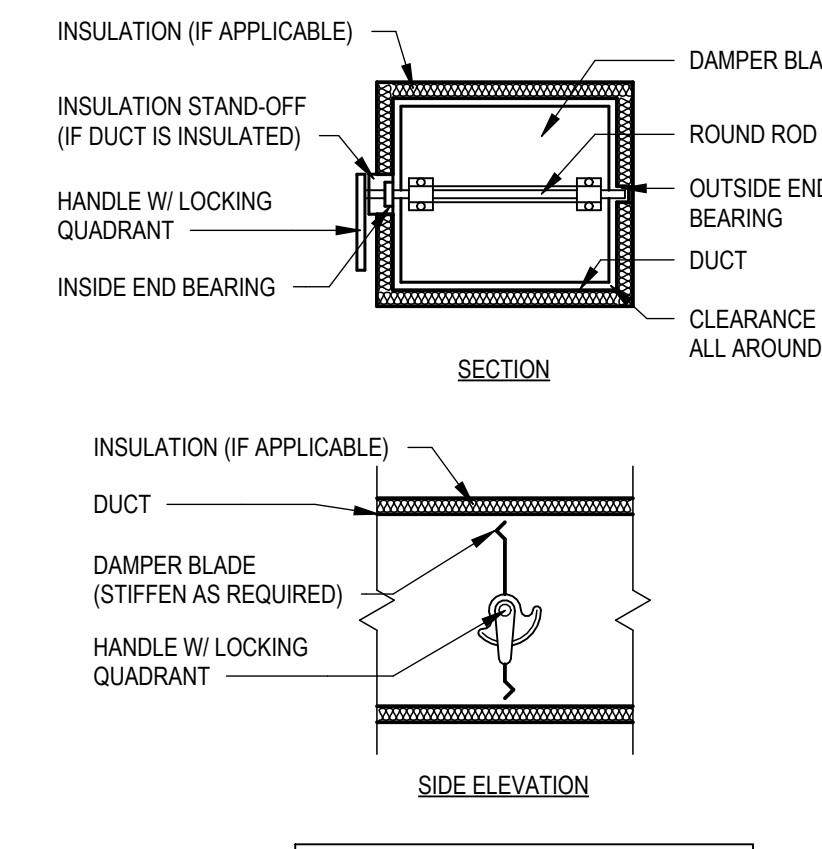


NOTE: PROVIDE BALANCING DAMPER AT ALL BRANCH TAKE-OFFS

ROUND DUCT BRANCH TAKE-OFF

NOT TO SCALE

5
M500

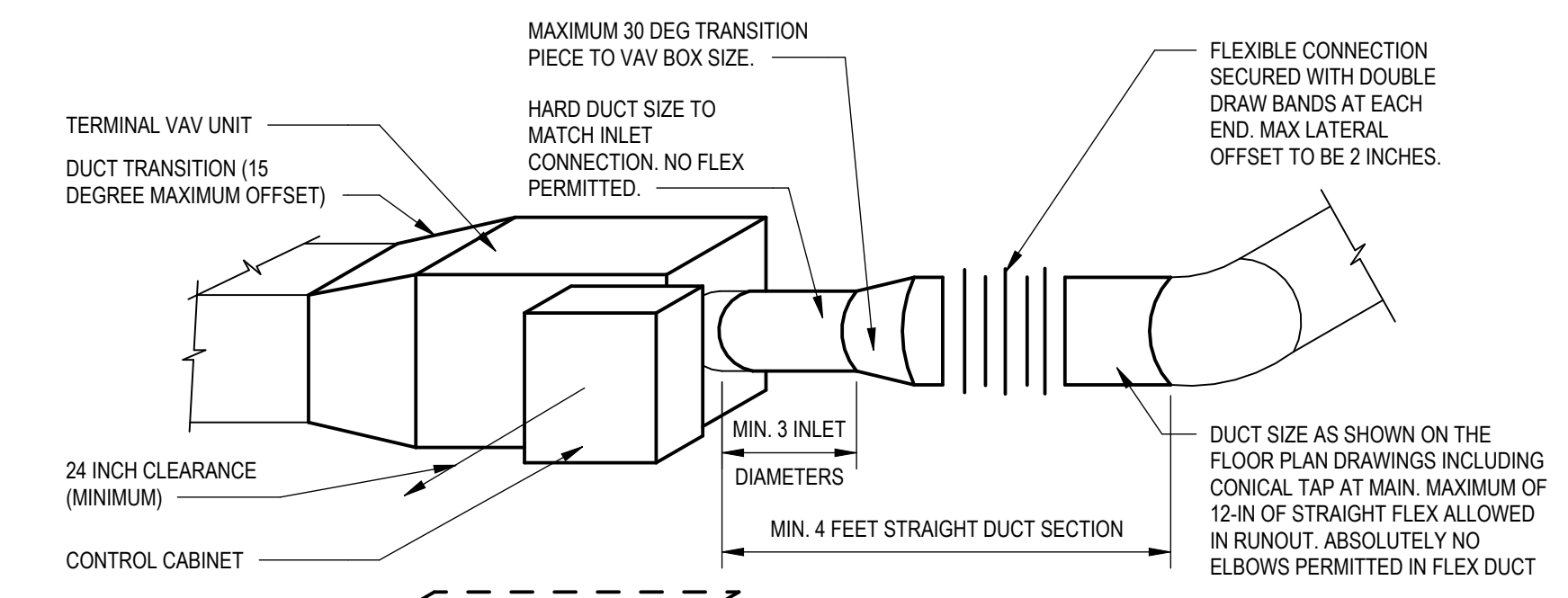


NOTE: RECTANGULAR, SINGLE-BLADE DAMPER SHOWN. INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE AND ROUND DAMPERS.

VOLUME DAMPER

NOT TO SCALE

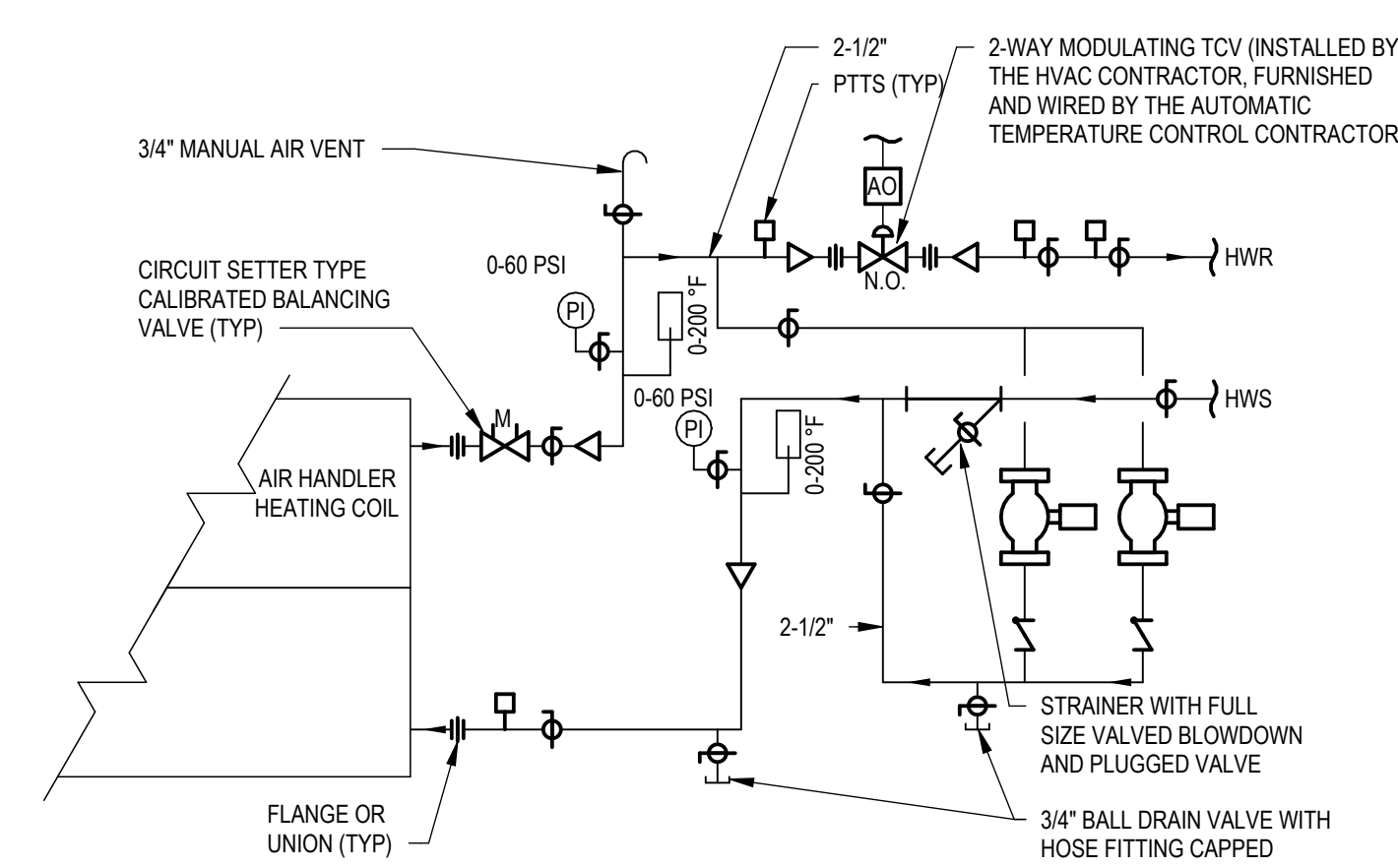
6
M500



VAV UNIT INSTALLATION

NOT TO SCALE

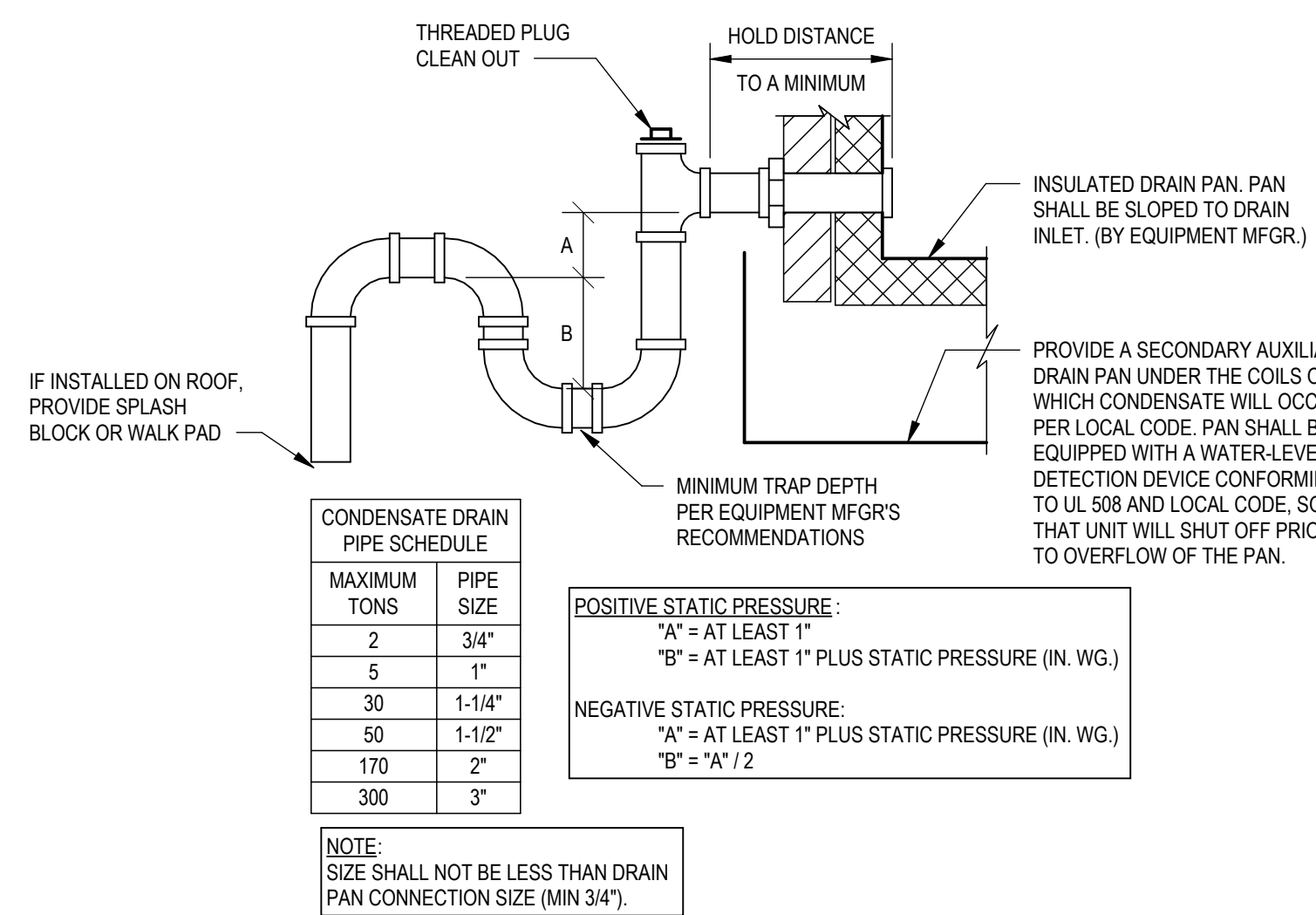
7
M500



AIR HANDLING UNIT - HEATING COILS

NOT TO SCALE

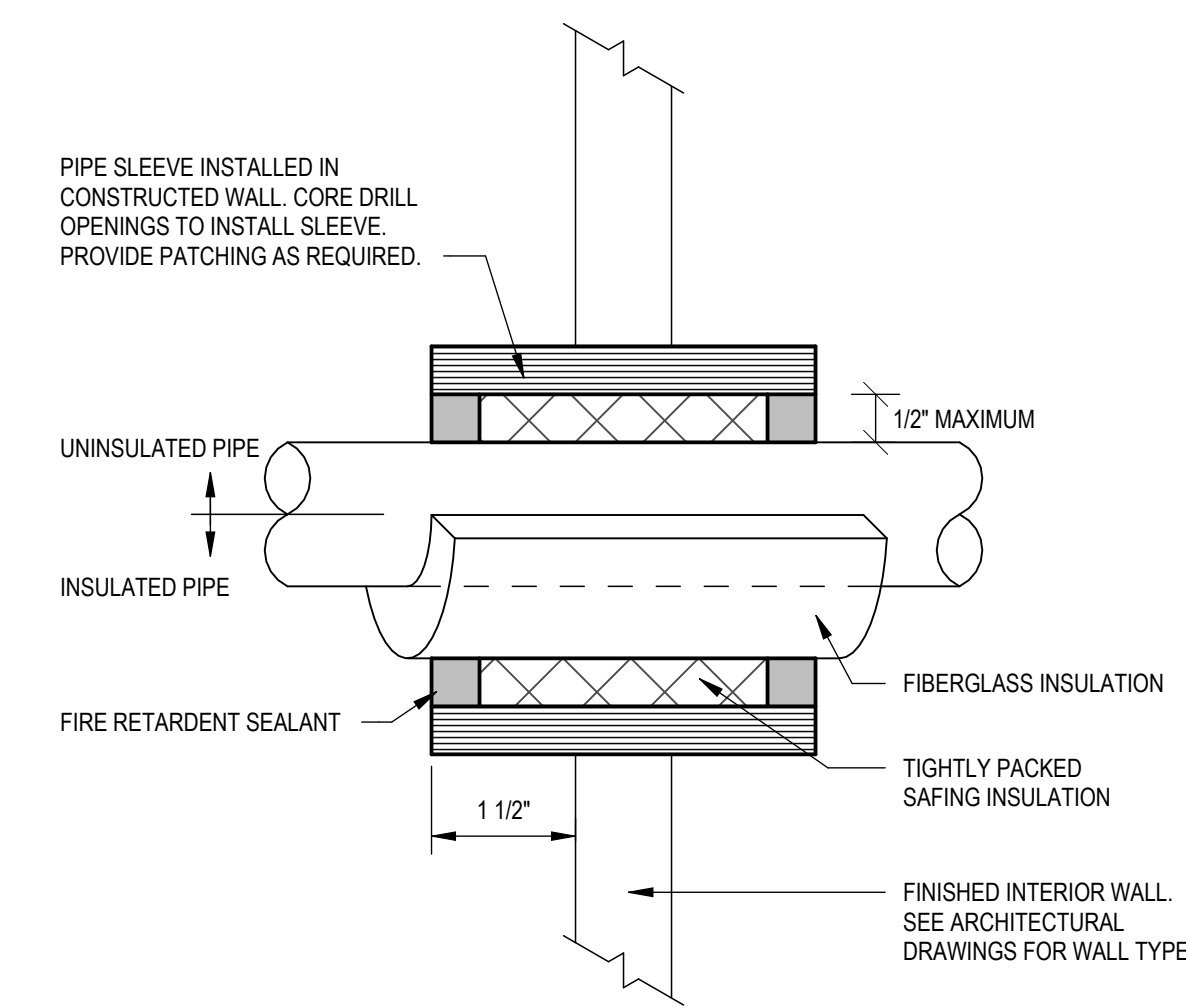
8
M500



CONDENSATE DRAIN PIPE

NOT TO SCALE

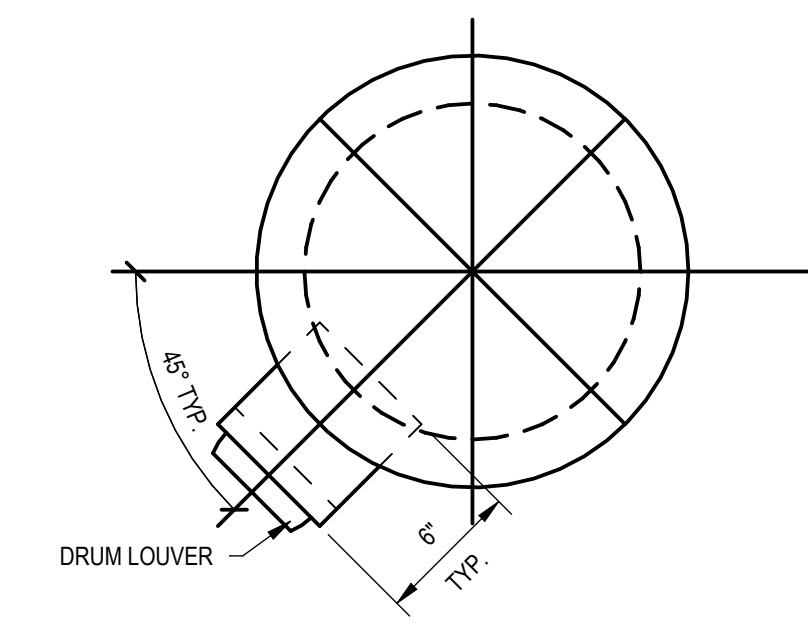
9
M500



WALL PIPING PENETRATION

NOT TO SCALE

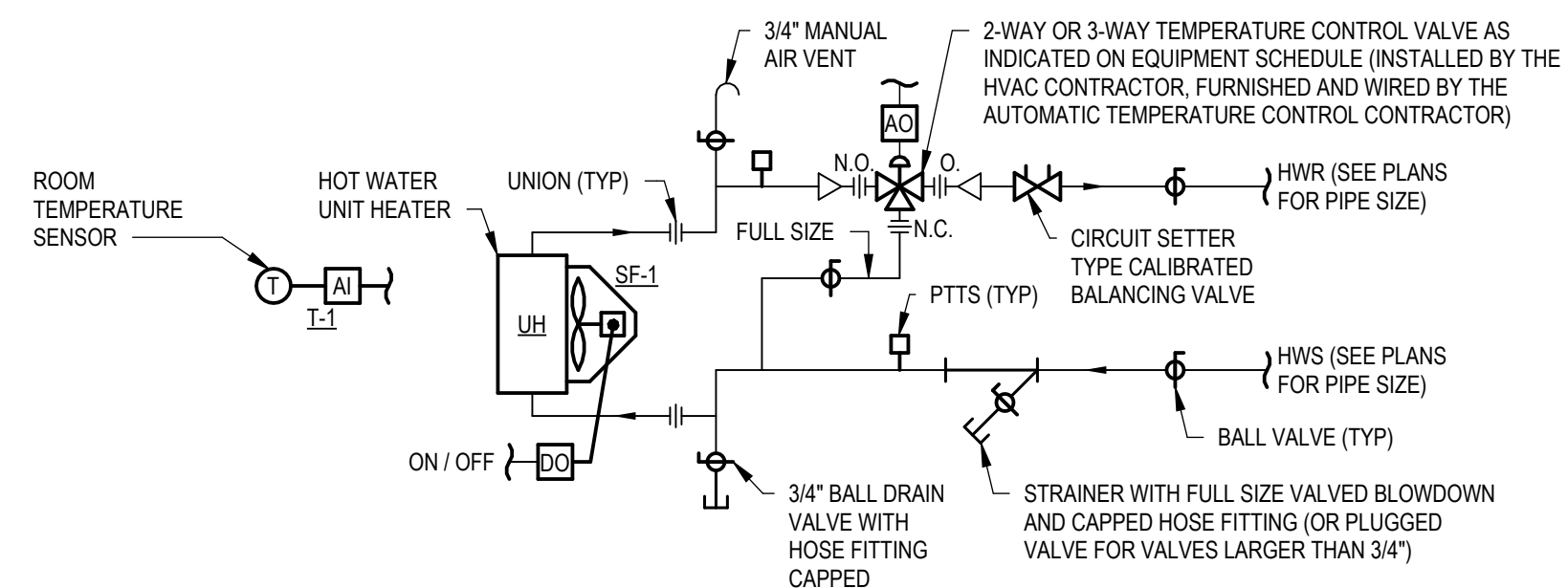
10
M500



OPEN AREA DUCT - TYPICAL SECTION

NOT TO SCALE

11
M500



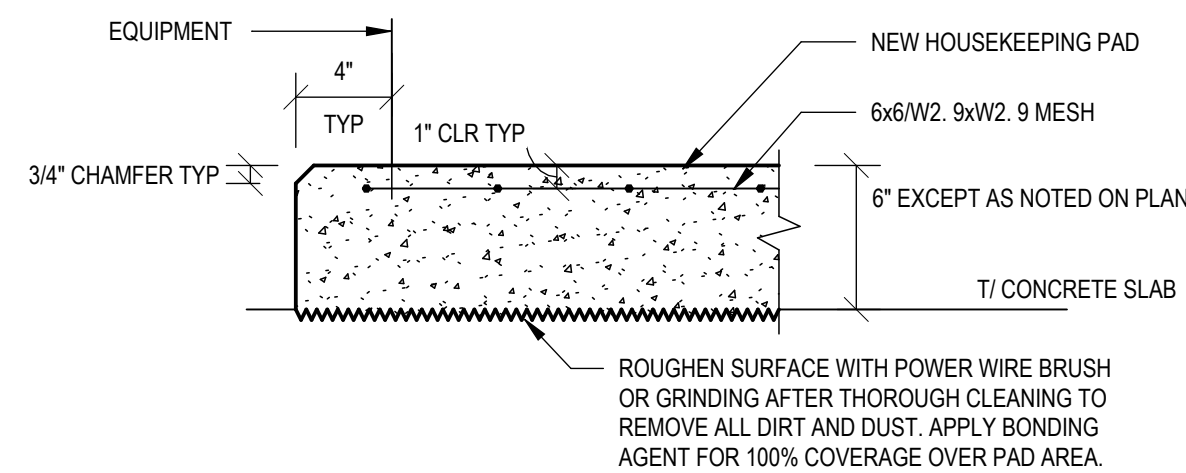
- NOTES:**
1. PROVIDE 8" OF CLEARANCE AT PTTS FOR INSERTION OF TEST DEVICES.
 2. SHUT-OFF VALVES, STRAINERS, BALANCING VALVES, AND UNIONS/FLANGES SHALL BE FULL PIPE SIZE. PIPING TO COIL CONNECTIONS SHALL NOT BE SMALLER THAN COIL CONNECTION SIZE.
 3. SEE FLOOR PLANS FOR SIZES OF BRANCH PIPING TO HEATING COILS.
 4. THE COIL ISOLATION SHUT-OFF VALVES ARE TO BE SEPARATE VALVES, INDEPENDENTLY INSTALLED, AND NOT INCLUDED IN COMBINATION VALVE PACKAGES.
 5. CABINET HEATER CONTROLS AND PIPING ARRANGEMENTS SIMILAR.

UNIT HEATER - HOT WATER

12" = 1'-0"

3

M501

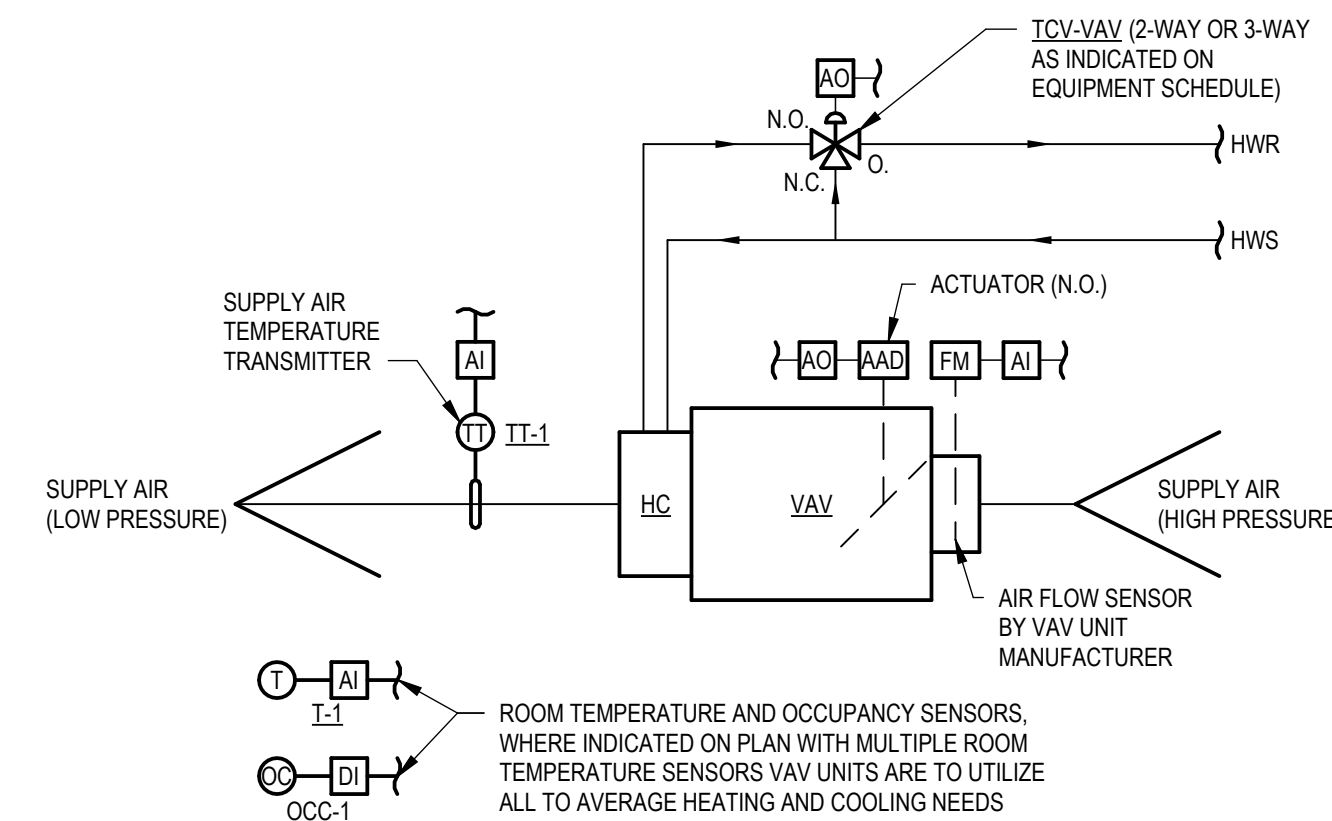


INDOOR CONCRETE PAD

NOT TO SCALE

1

M501

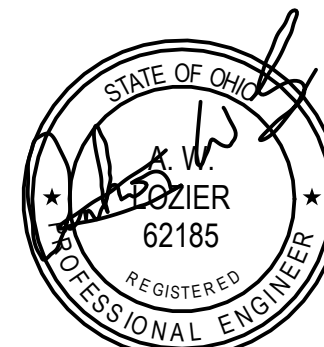


VAV UNITS - HOT WATER REHEAT

NOT TO SCALE

2

M501



ISSUED	DATE
GMP/PERMIT RESPONSE	01/10/2025

SHEET TITLE	
MECHANICAL DETAILS	
SCALE	COMM. No.
As indicated	E-1007
DRAWN BY	DATE
ELEVVAR	01/10/2025
SHEET	

M501

SOLVITA - 950 FORRER BLVD RENOVATION - PHASE 2

950 FORRER BLVD
KETTERING, OHIO 45420
SOLVITA
2900 COLLEGE DRIVE, KETTERING, OHIO 45420

Solvita
DESIGN GROUP
349 SOUTH MAIN STREET
DAYTON, OH 45402-2715
P: (937) 461-3220

elevvar
DESIGN GROUP
555 CARR ST.
CINCINNATI, OH 45203
P: (513) 721-0600 F: (513) 721-0611

DEDICATED OUTSIDE AIR SYSTEM SCHEDULE							DOAS FAN ARRAY										DOAS ENERGY RECOVERY DEVICE										DOAS HEATING / COOLING COILS																					
UNIT	AREA SERVED	DUCTWORK CONFIGURATION	BASIS OF DESIGN		HEIGHT (LB)	ADDITIONAL ACCESSORIES	UNIT SERVED	AIR STREAM	TOTAL AIR FLOW (CFM)	NUMBER OF FANS	AIR FLOW PER FAN (CFM)	SPEED (RPM)	TSP (IN-WC)	ESP (IN-WC)	ELECTRICAL DATA				ENERGY RECOVERY DEVICE TYPE	AIR STREAM	DEVICE APD (IN-WC)	AIR FLOW (CFM)	SUMMER			WINTER			COIL TYPE	AIR TEMPERATURES (°F)			HEATING / COOLING			FLUID DATA			ADDITIONAL ACCESSORIES									
			V / PH	MCA											MOCP	EAT (°F)	DB (°F)	WB (°F)					LAT (°F)	EFFECTIVENESS	TOTAL ENERGY RECOVERED	EAT (°F)	DB (°F)	WB (°F)		EFFECTIVENESS	TOTAL ENERGY RECOVERED	ENTERING	LEAVING	APD (IN-WC)	VELOCITY (FPM)	TOTAL (BTU/H)	SENSIBLE (BTU/H)	# COILS		# ROWS	TYPE	FLOW (GPM)	TEMP (°F)	ENT LEAV	WPD (FT-WC)			
AHU-10	MICRO LAB		DAKIN	VISION	11.519		RETURN	15,000	3	5,000	1,530	3.64	0.00	460 / 3	22.17 A	25 A	CORE	SUPPLY	0.69	15,000	80.0	77.0	80.2	69.6	53.6%	457,083 Btu/h	0.0	-1.0	45.9	38.1	61.3%	928,628 Btu/h	CHILLED WATER	80.2	69.6	52.2	52.0	1.00	484	825,610	459,564	2	8	WATER	136.6	45	57.1	16.7
							SUPPLY	15,000	5	3,000	3,330	7.62	0.00	460 / 3	41.66 A	50 A	EXHAUST	1.49	15,000	75.0	62.0	84.8	70.7		70.0	55.0	24.1	24.1	0.13	0.13	500	405,716		2	1	WATER	19.7	180	138.8	1.3								

TAG	AREA SERVED	LOCATION	CFM	TOTAL ESP	WEIGH	RPM	FLA	VOLTS / PHASE	MODEL	MANUFACTURER	NOTES
EF-1	207, 208 RESTROOM	INLINE	150 CFM	0.070 in-wg	30 lb	1459	1.5 A	115/160	CSP-A390-VG	GREENHECK	
EF-2	211, 212 RESTROOM	INLINE	150 CFM	0.070 in-wg	30 lb	1459	1.5 A	115/160	CSP-A390-VG	GREENHECK	
EF-3	213, 214 RESTROOM	INLINE	200 CFM	0.070 in-wg	30 lb	742	1.5 A	115/160	CSP-A390-VG	GREENHECK	
EF-205	205 RESTROOM	CEILING	100 CFM	0.000 in-wg	17 lb	960	0.2 A	115/160	SPA-110	GREENHECK	
EF-E-103	E-103 RESTROOM	CEILING	100 CFM	0.000 in-wg	17 lb	960	0.2 A	115/160	SPA-110	GREENHECK	

DESIGNATION	FUNCTION	MOUNTING	BLADE TYPE	DIMENSIONS				FREE AREA	DESIGN AIR FLOW	DESIGN VELOCITY	PRESSURE DROP AT DESIGN AIR FLOW (IN WC)	FINISH	BASIS OF DESIGN		ACCESSORIES	COMMENTS
				W	H	D	AREA						MFGR	MODEL NO.		
349		CHANNEL FRAME	EXTRUDED 35 DEGREE STATIONARY DRAINABLE	12"	12"	6"	1 SF	0.2 SF	100 CFM	561 FPM	0.04	FACTORY FINISH	PORTHOFF	EJA-437	ALUMINUM CONSTRUCTION	
821		CHANNEL FRAME	EXTRUDED 35 DEGREE STATIONARY DRAINABLE	12"	12"	6"	1 SF	0.2 SF	100 CFM	561 FPM	0.04	FACTORY FINISH	PORTHOFF	EJA-437	ALUMINUM CONSTRUCTION	
843		CHANNEL FRAME	EXTRUDED 35 DEGREE STATIONARY DRAINABLE	12"	12"	6"	1 SF	0.2 SF	100 CFM	561 FPM	0.04	FACTORY FINISH	PORTHOFF	EJA-437	ALUMINUM CONSTRUCTION	
LV-1	EXHAUST	CHANNEL FRAME	EXTRUDED 35 DEGREE STATIONARY DRAINABLE	12"	12"	6"	1 SF	0.2 SF	150 CFM	841 FPM	0.10	FACTORY FINISH	PORTHOFF	EJA-437	ALUMINUM CONSTRUCTION	
LV-2	EXHAUST	CHANNEL FRAME	EXTRUDED 35 DEGREE STATIONARY DRAINABLE	12"	12"	6"	1 SF	0.2 SF	100 CFM	561 FPM	0.04	FACTORY FINISH	PORTHOFF	EJA-437	ALUMINUM CONSTRUCTION	
LV-3	EXHAUST	CHANNEL FRAME	EXTRUDED 35 DEGREE STATIONARY DRAINABLE	12"	12"	6"	1 SF	0.2 SF	200 CFM	1122 FPM	0.17	FACTORY FINISH	PORTHOFF	EJA-437	ALUMINUM CONSTRUCTION	

DESIGNATION	UNIT TYPE	AIR FLOW CFM	EAT (Deg. F)	EWT (Deg. F)	LAT (Deg. F)	LWT (Deg. F)	CAPACITY DATA		WPD (IN WG)	ELECTRICAL DATA		BASIS OF DESIGN		ACCESSORIES
							BTU / HR	GPM		VOLTS / PH / HZ	HP	MFGR	MODEL NO.	
CUH-1	RECESSED	500	60	140	127.0	114.6	36,301	2.86	1.3	115/160	1.05	05	MOODINE	CW006
CUH-2	RECESSED	500	60	140	127.0	114.6	36,301	2.86	1.3	115/160	1.05	05	MOODINE	CW006
CUH-3	RECESSED	500	60	140	127.0	114.6	36,301	2.86	1.3	115/160	1.05	05	MOODINE	CW006
CUH-4	RECESSED	500	60	140	127.0	114.6	36,301	2.86	1.3	115/160	1.05	05	MOODINE	CW006
UH-4	HORIZONTAL	395	60	200	90.3	180.5	13,050	1.3	0.06	115 / 1 / 60	0.8	16 WATT	STERLING	HS-18
UH-5	HORIZONTAL	395	60	200	90.3	180.5	13,050	1.3	0.06	115 / 1 / 60	0.8	16 WATT	STERLING	HS-18
UH-6	HORIZONTAL	395	60	200	90.3	180.5	13,050	1.3	0.06	115 / 1 / 60	0.8	16 WATT	STERLING	HS-18
UH-10	HORIZONTAL	395	60	200	90.3	180.5	13,050	1.3	0.06	115 / 1 / 60	0.8	16 WATT	STERLING	HS-18
UH-201	HORIZONTAL	395	60	200	90.3	180.5	13,050	1.3	0.06	115 / 1 / 60	0.8	16 WATT	STERLING	HS-18
UH-202A	HORIZONTAL	395	60	200	90.3	180.5	13,050	1.3	0.06	115 / 1 / 60	0.8	16 WATT	STERLING	HS-18
UH-202B	HORIZONTAL	395	60	200	90.3	180.5	13,050	1.3	0.06	115 / 1 / 60	0.8	16 WATT	STERLING	HS-18
UH-202C	HORIZONTAL	395	60	200	90.3	180.5	13,050	1.3	0.06	115 / 1 / 60	0.8	16 WATT	STERLING	HS-18
UH-C103	HORIZONTAL	395	60	200	90.3	180.5	13,050	1.3	0.06	115 / 1 / 60	0.8	16 WATT	STERLING	HS-18
UH-C104	RECESSED	500	0	0	25.6	0.0	36,301	0	0	115/160	7.22		MOODINE	CW006
UH-C105	RECESSED	500	0	0	25.6	0.0	36,301	0	0	115/160	7.22		MOODINE	CW006
UH-C106	RECESSED	500	0	0	25.6	0.0	36,301	0	0	115/160	7.22		MOODINE	CW006
UH-C107	RECESSED	500	0	0	25.6	0.0	36,301	0	0	115/160	7.22		MOODINE	CW006
UH-E-221	HORIZONTAL	900	60	200	104.4	180.7	43,600	4.4	2.04	115 / 1 / 60	1.4	120	STERLING	HS-60
UH-W-200	HORIZONTAL	395	60	200	90.3	180.5	13,050	1.3	0.06	115 / 1 / 60	0.8	16 WATT	STERLING	HS-18

DESIGNATION	AREA SERVED	CONFIGURATION	WEIGHT	RATED AIR FLOW (CFM)	NOMINAL HEATING CAPACITY (BTU/H)	NOMINAL COOLING CAPACITY (BTU/H)	TOTAL (BTU/H)	COOLING CAPACITY		HEATING CAPACITY		ESTIMATED COOLING COIL LAT	ESTIMATED HEATING COIL LAT	ELECTRICAL DATA		BASIS OF DESIGN		ACCESSORIES			
								ENTERING AIR TEMP	TOTAL (BTU/H)	ENTERING AIR TEMP	TOTAL (BTU/H)			V / PH	MCA / MOCP	MANUFACTURER	MODEL #				
FCU-1	IT 206	WALL MOUNTED	46 lb	635	24,000	29,000	14,557.6	0	51.7	110.9	208/160	1	12.638.3	11 A	15 A	21.1	13	2.31	MITSUBISHI	PKA-A24KA7	
FCU-2	IT 218	WALL MOUNTED	33.1 lb	335	12,000	14,000	12,000	0	70	12.638.3	51.7	106.3	208/160	1	11 A	15 A	21.1	13	2.31	MITSUBISHI	PKA-A12HA7

DESIGNATION	UNIT SERVED	WEIGHT	NOMINAL HEATING CAPACITY (BTU/H)	NOMINAL COOLING CAPACITY (BTU/H)	DESIGN COOLING OUTDOOR TEMP	DESIGN HEATING OUTDOOR TEMP	TOTAL COOLING CAPACITY (BTU/H)	TOTAL HEATING CAPACITY (BTU/H)	ELECTRICAL DATA		SEER	EER	HEATING COP	BASIS OF DESIGN		ACCESSORIES
									V / PH / HZ	MCA / MOCP				MFG	MODEL #	
CU-1		210 lb	24,000.0 Btu/h	24,000.0 Btu/h	95	5	24,000 Btu/h	26,000 Btu/h	208/160	17 A	25 A	19.5	12.65	1.9	MITSUBISHI	PUZ-HAZNH1A
CU-2		98 lb	12,000.0 Btu/h	12,000.0 Btu/h	95	5	12,000 Btu/h	14,000 Btu/h	208/160	11 A	15 A	21.1	13	2.31	MITSUBISHI	PUZ-A12NKA7

DESIGNATION	UNIT TYPE	AIR FLOW CFM	EAT (Deg. F)	LAT (Deg. F)	EWT (Deg. F)	LWT (Deg. F)	CAPACITY DATA		WPD (IN WG)	ELECTRICAL DATA		BASIS OF DESIGN		ACCESSORIES		
							BTU / HR	GPM		VOLTS / PH / HZ	HP	MFGR	MODEL NO.			
HAC-1	HOT WATER HEATED DOOR UNIT	4757	65	100.7	180	140.0	253	10.38		460/960	6	3/4 X 3	POWERED AIR	ETA-3-120HW	406.00 lbF	NON-FUSED DISCONNECT SWITCH, SM226 MAGNETIC DOOR SWITCH/HOA SWITCH PANEL
HAC-2	HOT WATER HEATED DOOR UNIT	3514	65	101.2	180	140.0	139	7.44		460/960	4	3/4 X 2	POWERED AIR	ETA-3-96HW	306.00 lbF	NON-FUSED DISCONNECT SWITCH, SM226 MAGNETIC DOOR SWITCH/HOA SWITCH PANEL
HAC-3	HOT WATER HEATED DOOR UNIT	4757	65	100.7	180	140.0	253	10.38		460/960	6	3/4 X 3	POWERED AIR	ETA-3-120HW	406.00 lbF	NON-FUSED DISCONNECT SWITCH, SM226 MAGNETIC DOOR SWITCH/HOA SWITCH PANEL

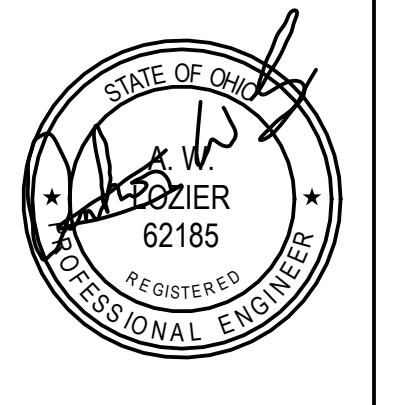
DESIGNATION	FUNCTION	THROAT DIMENSIONS		HOOD DIMENSIONS		HEIGHT	AIR FLOW	NECK VELOCITY	SP DROP (IN-WC)	BASIS OF DESIGN		ACCESSORIES	NOTES
		LENGTH	WIDTH	LENGTH	WIDTH					MANUFACTURER	MODEL NO.		
GV-1	INTAKE		42"		75"	78"	23"	0 CFM	0 FPM	0.000	GREENHECK	FGI	
GV-2	EXHAUST		42"		75"	78"	23"	0 CFM	0 FPM	0.000	GREENHECK	FGR	

DESIGNATION	AREA SERVED ROOM NUMBER(S)	INLET SIZE	MAX. COOL CAPACITY	HEATING CAPACITY	MIN. COOL CAPACITY	CAPACITY	COIL TYPE	HEATING FLUID	FLOW	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	TCV TYPE	COMMENTS
(PH1)WAV-130A	EXISTING AREA	10"	1060 CFM	525 CFM	263 CFM	22,000 Btu/h	HOT WATER	WATER	2.2 GPM	55	93.9	180	159.5	2-WAY	
(PH1)WAV-130B	EXISTING AREA	10"	1060 CFM	525 CFM	263 CFM	22,000 Btu/h	HOT WATER	WATER	2.2 GPM	55	93.9	180	159.5	2-WAY	
(PH1)WAV-130C	EXISTING AREA	10"	1060 CFM	525 CFM	263 CFM	22,000 Btu/h	HOT WATER	WATER	2.2 GPM	55	93.9	180	159.5	2-WAY	
(PH1)WAV-130D	EXISTING AREA	10"	1060 CFM	525 CFM	263 CFM	22,000 Btu/h	HOT WATER	WATER	2.2 GPM	55	93.9	180	159.5	2-WAY	
(PH1)WAV-130E	EXISTING AREA	10"	1060 CFM	525 CFM	263 CFM	22,000 Btu/h	HOT WATER	WATER	2.2 GPM	55	93.9	180	159.5	2-WAY	
(PH1)WAV-130F	EXISTING AREA	10"	1060 CFM	525 CFM	263 CFM	22,000 Btu/h	HOT WATER	WATER	2.2 GPM	55	93.9	180	159.5	2-WAY	
(PH1)WAV-C103	W2 CORRIDOR	8"	600 CFM	300 CFM	150 CFM	15,000 Btu/h	HOT WATER	WATER	1.5 GPM	55	101.4	180	159.5	2-WAY	
(PH1)WAV-C110	W2 CORRIDOR	10"	720 CFM	360 CFM	180 CFM	20,000 Btu/h	HOT WATER	WATER	2 GPM	55	106.5	180	159.5	2-WAY	
(RELO)WAV-8-1	POST PROCESSING	40"	4375 CFM	2150 CFM	1290 CFM	45,000 Btu/h	HOT WATER	WATER	3.6 GPM	55	95	180	126.8	2-WAY	
(RELO)WAV-8-1	POST PROCESSING	40"	3800 CFM	2150 CFM	1290 CFM	55,000 Btu/h	HOT WATER	WATER	3.6 GPM	55	95	180	126.8	2-WAY	
(RELO)WAV-8-1	POST PROCESSING	40"	4375 CFM	2150 CFM	1290 CFM	45,000 Btu/h	HOT WATER	WATER	3.6 GPM	55	95	180	126.8	2-WAY	
(RELO)WAV-8-1	POST PROCESSING	40"	4375 CFM	2150 CFM	1290 CFM	45,000 Btu/h	HOT WATER	WATER	3.6 GPM	55	95	180	126.8	2-WAY	
(RELO)WAV-8-1	POST PROCESSING	40"	4375 CFM	2150 CFM	1										

VENTILATION SCHEDULE - (DOAS SYSTEM)																			
ROOM NAME	ROOM NUMBER	AREA (SF)	OCCUPANCY CATEGORY	MAX. NUMBER OF OCCUPANTS (PER 1000 SF)	OUTDOOR AIR PER OCC. (CFM)	OUTDOOR AIR PER FL AREA (CFM/SF)	DESIGN NUMBER OF PEOPLE	ACTUAL NUMBER OF PEOPLE	BREATHING ZONE OUTDOOR AIRFLOW (CFM) (Equation 6-1)	ZONE AIR DISTRIBUTION EFFECTIVENESS (Table 6-4)	ZONE OUTDOOR AIRFLOW (CFM) (Equation 6-2)	DESIGN SUPPLY AIR (CFM)	EXHAUST REQUIREMENTS			CONTINUOUS EXHAUST			
													NO. OF FIXTURES	EA PER FIXTURE	EA PER SF				
MICRO LAB OPEN FLOOR	A-100	10,312	Science Laboratory	25	10	0.18	258	34	2196	80%	2745	10080	0	0	1	10312	11400	Yes	
CULTURE RECEIVING AND CHECK-IN AIR LOCK	A-101	780	Office Space	5	5	0.06	4	4	67	80%	84	600	1	0	0	0	0	300	Yes
HUDDLE ROOM	A-103	208	Office Space	5	5	0.06	1	5	37	80%	47	200	0	0	0	0	0	200	Yes
OFFICES CORRIDOR	A-104	1,001	Office Space	5	5	0.06	5	12	120	80%	150	800	0	0	0	0	0	800	Yes
PPE ROOM	A-110	431	Science Laboratory	25	10	0.18	11	1	88	80%	109	400	0	0	1	431	690	Yes	
SPECIALTY HOOD ROOM	A-111	180	Science Laboratory	25	10	0.18	5	1	42	80%	53	210	0	0	1	180	180	Yes	
ASEPTIC HOOD ROOM	A-112	178	Science Laboratory	25	10	0.18	4	1	42	80%	53	200	0	0	1	178	180	Yes	
ASEPTIC HOOD ROOM	A-113	178	Science Laboratory	25	10	0.18	4	1	42	80%	53	200	0	0	1	178	180	Yes	
ASEPTIC HOOD ROOM	A-114	178	Science Laboratory	25	10	0.18	4	1	42	80%	53	200	0	0	1	178	180	Yes	
CALCIUM RESIDUAL	A-115	448	Science Laboratory	25	10	0.18	11	1	91	80%	113	400	0	0	1	448	630	Yes	
CULTURE DISCARD & WASTE AIR LOCK	A-116	465	Science Laboratory	25	10	0.18	12	2	104	80%	130	400	0	0	1	465	950	Yes	
SUPPLIES RECEIVING & QUARANTINE	A-118	263	Science Laboratory	25	10	0.18	7	1	57	80%	72	300	0	0	1	263	900	Yes	
TOTALS:		15,496					326	64				14800				12634	16680		

VENTILATION SCHEDULE - (VAV SYSTEM)- AHU-9																				
ROOM NAME	ROOM NUMBER	AREA (SF)	OCCUPANCY CATEGORY	MAX. NUMBER OF OCCUPANTS (PER 1000 SF)	OUTDOOR AIR PER OCC. (CFM)	OUTDOOR AIR PER FL AREA (CFM/SF)	DESIGN NUMBER OF PEOPLE	ACTUAL NUMBER OF PEOPLE	BREATHING ZONE OUTDOOR AIRFLOW (CFM) (Equation 6-1)	ZONE AIR DISTRIBUTION EFFECTIVENESS (Table 6-4)	MINIMUM PRIMARY AIRFLOW (CFM) (Equations 6-2 & 9)	ACTUAL MINIMUM AIRFLOW (CFM)	DESIGN SUPPLY AIR (CFM)	ACTUAL CA (CFM)	EXHAUST REQUIREMENTS			CONTINUOUS EXHAUST		
															NO. OF FIXTURES	EA PER FIXTURE	EA PER SF			
W1 VESTIBULE	200.1	309	Corridor	0	0	0.06	0	0	19	80%	35	132	650	68	0	0	0	0	No	
W2 VESTIBULE	200.2	137	Corridor	0	0	0.06	0	0	8	80%	15	66	330	34	0	0	0	0	No	
WEST CORRIDOR	201	5,349	Corridor	0	0	0.06	0	0	321	80%	602	610	3050	314	0	0	0	0	No	
SHARED CONFERENCE	203	587	Conference Room	50	5	0.06	29	16	115	80%	216	280	1400	144	0	0	0	0	No	
CONFERENCE ROOM	204	556	Conference Room	50	5	0.06	28	16	113	80%	213	264	1320	136	0	0	0	0	No	
JANITORS	205	35	Janitor Closet, Trash, Recycling (Dry Materials)	2	5	0.06	0	0	2	80%	4	10	50	5	0	0	1	35	75	No
UNISEX RR	207	53	Toilet Room - Public	0	0	0.00	0	0	0	80%	0	0	0	0	1	70	0	70	75	No
UNISEX RR	208	52	Toilet Room - Public	0	0	0.00	0	0	0	80%	0	0	0	0	1	70	0	70	75	No
UNISEX RR	211	59	Toilet Room - Public	0	0	0.00	0	0	0	80%	0	0	0	0	1	70	0	70	75	No
UNISEX RR	212	59	Toilet Room - Public	0	0	0.00	0	0	0	80%	0	0	0	0	1	70	0	70	75	No
UNISEX RR	213	54	Toilet Room - Public	0	0	0.00	0	0	0	80%	0	0	0	0	1	70	0	70	75	No
UNISEX RR	214	54	Toilet Room - Public	0	0	0.00	0	0	0	80%	0	0	0	0	1	70	0	70	75	No
EAST/WEST CORRIDOR	215	2,262	Corridor	0	0	0.06	0	0	136	80%	255	260	1300	134	0	0	0	0	No	
MOTHERS ROOM	216	55	Office Space	5	5	0.06	0	1	8	80%	16	20	100	10	0	0	0	0	No	
JANITORS ROOM	217	68	Janitor Closet, Trash, Recycling (Dry Materials)	2	5	0.06	0	0	4	80%	8	10	50	5	0	0	1	68	75	No
CAFETERIA	219	594	Break Room - Other	25	5	0.06	15	24	156	80%	292	360	1800	185	0	0	0	0	No	
EAST CORRIDOR-1	220-1	3,833	Corridor	0	0	0.06	0	0	230	80%	431	440	2200	226	0	0	0	0	No	
TISSUE RECEIVING	B-100	16,434	Storage, Occupiable (Dry Materials)	5	5	0.06	82	40	1186	80%	2224	5572	27860	2866	0	0	0	0	No	
SUPPLY	B-101	239	Storage Room	0	0	0.12	0	1	29	80%	54	55	275	28	0	0	0	0	No	
TRAINING	B-102	253	Office Space	5	5	0.06	1	4	35	80%	66	70	350	36	0	0	0	0	No	
OFFICE	B-103	290	Office Space	5	5	0.06	1	2	27	80%	51	50	300	31	0	0	0	0	No	
WINDOW PASS-THRU	B-104	91	Corridor	0	0	0.06	0	0	5	80%	10	10	100	10	0	0	0	0	No	
CT SCAN VESTIBULE	B-110	97	Office Space	5	5	0.06	0	1	11	80%	20	42	210	22	0	0	0	0	No	
CT SCAN	B-111	65	Office Space	5	5	0.06	0	2	14	80%	26	30	150	15	0	0	0	0	No	
CT SCAN	B-112	65	Office Space	5	5	0.06	0	2	14	80%	26	30	150	15	0	0	0	0	No	
OFFICE	B-114	212	Office Space	5	5	0.06	1	1	18	80%	33	50	250	26	0	0	0	0	No	
HUDDLE	B-115	95	Conference Room	50	5	0.06	5	4	26	80%	48	60	300	31	0	0	0	0	No	
HUDDLE	B-116	95	Conference Room	50	5	0.06	5	4	26	80%	48	50	250	26	0	0	0	0	No	
DISTRIBUTION OPEN FLOOR	C-100	19,568	Storage, Occupiable (Dry Materials)	5	5	0.06	98	40	1374	80%	2576	7450	37250	3831	0	0	0	0	No	
HUDDLE ROOM	C-105	97	Conference Room	50	5	0.06	5	4	26	80%	48	50	250	26	0	0	0	0	No	
STANDARD MANAGER OFFICE	C-109	105	Office Space	5	5	0.06	1	1	11	80%	21	30	150	15	0	0	0	0	No	
CUSTOMER SERVICE SETUP	C-110	108	Office Space	5	5	0.06	1	1	11	80%	22	30	150	15	0	0	0	0	No	
HOT DESK/TRAINING AREA	C-111	150	Office Space	5	5	0.06	1	4	29	80%	54	60	300	31	0	0	0	0	No	
SUPERVISOR'S DESK	C-112	215	Office Space	5	5	0.06	1	2	23	80%	43	45	225	23	0	0	0	0	No	
FACILITIES OFFICES	E-101	1,091	Office Space	5	5	0.06	5	5	90	80%	170	160	900	93	0	0	0	0	No	
IT OFFICE	E-102	276	Office Space	5	5	0.06	1	4	37	80%	69	70	350	36	0	0	0	0	75	No
FACILITIES RR	E-103	61	Toilet Room - Public	0	0	0.00	0	0	0	80%	0	0	0	0	1	70	0	70	75	No
BIOHAZARD	E-111	324	Storage, Occupiable (Dry Materials)	5	5	0.06	2	2	29	80%	55	100	500	51	0	0	0	0	No	
DRY-ICE EQUIPMENT	E-123	438	Storage Room	0	0	0.12	0	0	53	80%	98	120	600	62	0	0	0	0	No	
PICK-UP & DROP-OFF ROOM	W-200	600	Storage Room	0	0	0.12	0	2	72	80%	135	140	700	72	0	0	0	0	No	
TOTALS:		55,086					283	183				16766	83830	8623				593	750	

VENTILATION SCHEDULE - (VAV SYSTEM)- AHU-8																				
ROOM NAME	ROOM NUMBER	AREA (SF)	OCCUPANCY CATEGORY	MAX. NUMBER OF OCCUPANTS (PER 1000 SF)	OUTDOOR AIR PER OCC. (CFM)	OUTDOOR AIR PER FL AREA (CFM/SF)	DESIGN NUMBER OF PEOPLE	ACTUAL NUMBER OF PEOPLE	BREATHING ZONE OUTDOOR AIRFLOW (CFM) (Equation 6-1)	ZONE AIR DISTRIBUTION EFFECTIVENESS (Table 6-4)	MINIMUM PRIMARY AIRFLOW (CFM) (Equations 6-2 & 9)	ACTUAL MINIMUM AIRFLOW (CFM)	DESIGN SUPPLY AIR (CFM)	ACTUAL CA (CFM)	EXHAUST REQUIREMENTS			CONTINUOUS EXHAUST		
															NO. OF FIXTURES	EA PER FIXTURE	EA PER SF			
QC WORKSTATION	119	105	Office Space	5	5	0.06	1	1	11	80%	21	25	125	17	0	0	0	0	No	
EAST CORRIDOR-2	220-2	2,713	Corridor	0	0	0.06	0	0	163	80%	305	326	1550	217	0	0	0	0	No	
EXISTING CORRIDOR	C-103	982	Corridor	0	0	0.06	0	0	59	80%	110	116	550	77	0	0	0	0	No	
POST PROCESSING	D-100	19,011	Storage, Occupiable (Dry Materials)	5	5	0.06	95	50	1391	80%	2608	4321	20575	2878	0	0	0	0	No	
COPY AREA	D-102	626	Office Space	5	5	0.06	3	8	78	80%	145	168	800	112	0	0	0	0	No	
TOTALS:		23,437					99	59				4956	23600	3301				0	0	



ISSUED DATE
GMP/PERMIT RESPONSE 01/10/2025