

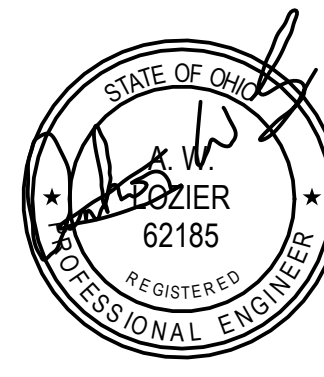
GENERAL NOTES:

- 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.



SOLVITA - 950 FORRER BLVD RENOVATION - PHASE 2

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



ISSUED DATE
1 | GMP/PERMIT RESPONSE 01/10/2025

MECHANICAL LEGEND: (not all may apply)

GENERAL ABBREVIATIONS:

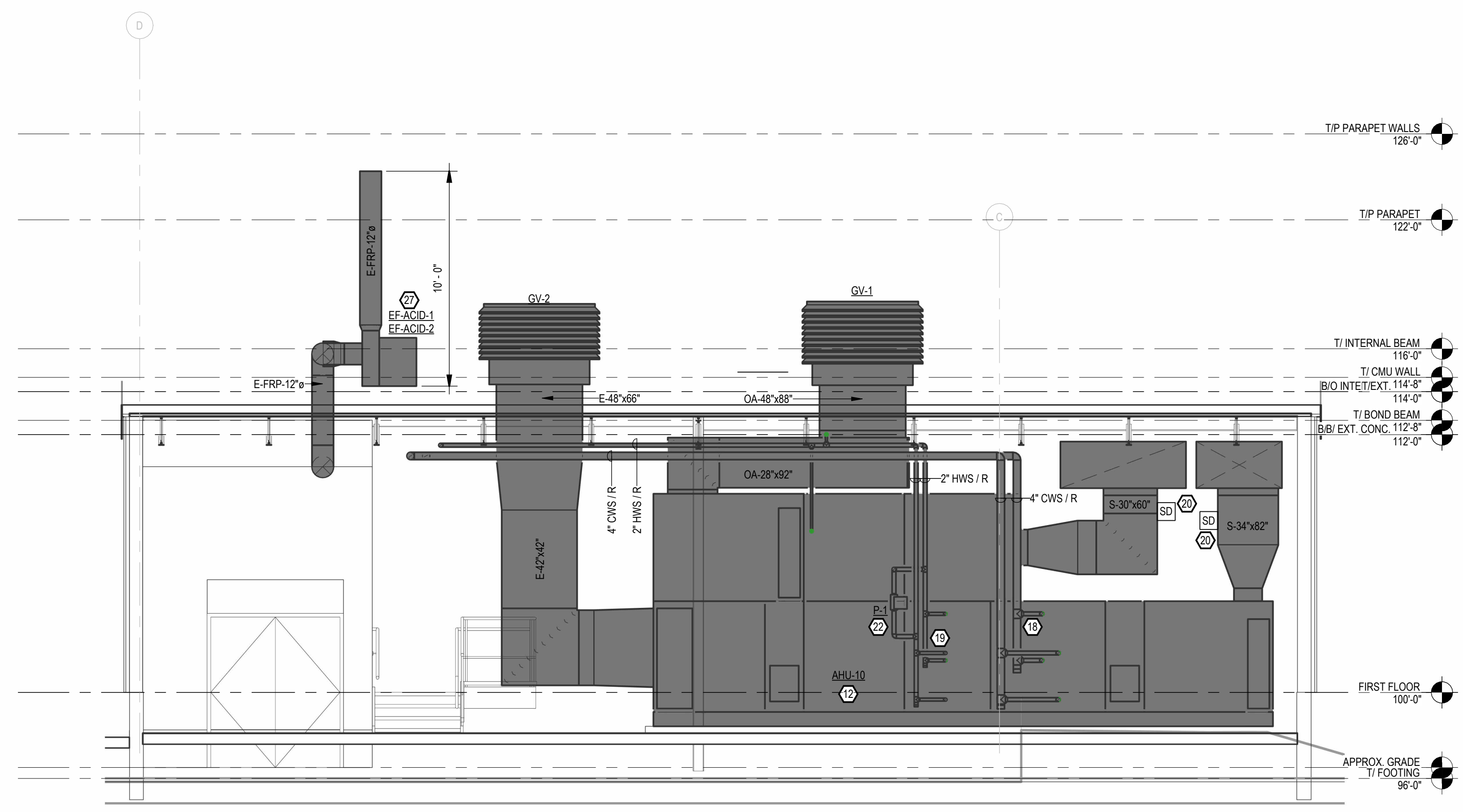
AAD	AUTOMATIC AIR DAMPER	CA	COMPRESSED AIR	EC	ELECTRICAL CONTRACTOR	GPH	GALLONS PER HOUR	MOC	MAX OVERCURRENT PROTECTION	RCP	RECIRCULATION PUMP	TI	TEMPERATURE INDICATOR
AAV	AUTOMATIC AIR VENT	CAF	COMBUSTION AIR FAN	EDH	ELECTRIC DUCT HEATER	GPM	GALLONS PER MINUTE	MOW	MAKEUP WATER	RD	ROOF DRAIN	TMV	THERMOSTATIC MIXING VALVE
AB	AIR BLENDER	CCW	COUNTER CLOCKWISE	EF	EXHAUST FAN	N/A	NOT APPLICABLE	REF	REFERENCE	REF	REFERENCE	TSP	TOTAL STATIC PRESSURE
AC	AIR CONDITIONING UNIT	CD	CEILING DIFFUSER	EL	ELEVATION	HP	HORSEPOWER	RECD	REQUIRED	REV	REVISIONS (RON)	TSTAT	THERMOSTAT
ACC	AIR COOLED CONDENSER	CFM	CUBIC FEET PER MINUTE	ELEC	ELECTRICAL	HR	HOUR	RG	REVERSE (RON)	RG	RELATIVE HUMIDITY	TAV	THERMAL EXPANSION VALVE
ACCU	AIR COOLED CONDENSING UNIT	CHV	CHECK VALVE	EG	EXHAUST GRILLE	HR	HOUR	RH	RETURN GRILLE	RH	RELATIVE HUMIDITY	TYP	TYPICAL
AD	ACCESS DOOR	CH	CHILLER	EQ	EQUAL	HT	HEAT TRACE	RM	ROOM	RM	ROOM	TW	TEMPERED WATER
ADL	ADDITIONAL	CHWP	CHILLED WATER PUMP	EQUIP	EQUIPMENT	HT	HEATING, VENTILATING AND A/C	RTU	ROOFTOP UNIT	RPM	REVOLUTIONS PER MINUTE	UGJDD	UNDERGROUND
ADJ	ADJUSTABLE	CHWR	CHILLED WATER RETURN	EQUIV	EQUIVALENT	HWP	HOT WATER PUMP	RR	RETURN REGISTER	RR	RETURN REGISTER	UNO	UNLESS OTHERWISE NOTED
AF	AIR FILTER	CI	CAST IRON	ERV	ENERGY RECOVERY VENTILATOR	HWR	HOT WATER RETURN	RTU	ROOFTOP UNIT	RV	RELIEF VENT	UNO	UNLESS OTHERWISE NOTED
AFF	ABOVE FINISHED FLOOR	CO	CLEANOUT	ESP	EXTERNAL STATIC PRESSURE	HWS	HOT WATER SUPPLY	NTS	NOT TO SCALE	OA	OUTSIDE AIR	VA	VENTILATION AIR
AHU	AIR HANDLING UNIT	COL	COLUMN	ET	EXPANSION TANK	HX	HEAT EXCHANGER	OA	OUTSIDE AIR	OAH	OUTSIDE AIR HOOD	VAC	VACUUM
ALT	ALTERNATE	CONN	CONNECTION	EWT	ENTERING WATER TEMPERATURE	IA	INSTRUMENT AIR	OAL	OUTSIDE AIR LOUVER	OAL	OUTSIDE AIR LOUVER	VAV	VARIABLE AIR VOLUME
ALUM	ALUMINUM	CU	CUBIC INCH	EXCL	EXCLUDING	IE	INVERT ELEVATION	OC	ON CENTER	OC	OCCUPANCY SENSOR	VD	VOLUME DAMPER
A(MP)	AMPERE	CU FT	CUBIC FEET	EXIST	EXISTING	IN	INCH	OCC	OCCUPANCY SENSOR	OP	OPENING	VERT	VERTICAL
AP	ACCESS PANEL	CU IN	CUBIC INCH	EXP	EXPANSION	KEC	KITCHEN EQUIPMENT CONTRACTOR	OSY	OUTSIDE SCREW AND YOKE	OSY	OUTSIDE SCREW AND YOKE	VFD	VARIABLE FREQUENCY DRIVE
APPROX	APPROXIMATE	CW	CLOCKWISE	*F	DEGREE FAHRENHEIT	KH	KITCHEN HOOD	OZ	OUNCE	SF	SUPPLY FAN	VOL	VOLUME
ARCH	ARCHITECTURAL	CWP	CONDENSING WATER PUMP	FD	FLOOR DRAIN	KV	KITCHEN VENT	PC	PLUMBING CONTRACTOR	SG	SOUND LING	VOL	VOLUME
AUTO	AUTOMATIC	CWS	CONDENSING WATER SUPPLY	FF	FINISHED FLOOR	KW	KILOWATT	PFM	PRE-FILTER	SHWP	SECONDARY HOT WATER PUMP	VRF	VARIABLE REFRIGERANT FLOW TERMINAL UNIT
AVG	AVERAGE	CWR	CONDENSING WATER RETURN	FM	FIRE MANDRANT	LAT	LEAVING AIR TEMPERATURE	PH	PHASE	SHT	SHEET	VRP	VARIABLE REFRIGERANT FLOW HEAT PUMP
BAS	BUILDING AUTOMATION SYSTEM	DB	DRY BULB TEMPERATURE	FH	FLOOR	LB	POUND	PH	PHASE	SM	SPECIFICATIONS	W	WITH
BBD	BALANCED BACKRAFT DAMPER	DDC	DIRECT DIGITAL CONTROL	FLA	FULL LOAD AMPS	LD	LINEAR DIFFUSER	PH	PHASE	SPT	STATIC PRESSURE TRANSMITTER	WO	WITHOUT
BE	BOTTOM ELEVATION	DET	DETAIL	FOS	FUEL OIL SUPPLY	LWT	LEAVING WATER TEMPERATURE	PH	PHASE	SO	SQUARE FOOT (FEET)	WB	WET BULB TEMPERATURE
BFP	BACKFLOW PREVENTER	DN	DOWNSIDE	FOT	FUEL OIL RETURN	MATL	MATERIAL	PH	PHASE	SO IN	SQUARE INCHES	WC	WATER COLUMN
BLP	BRAKE HORSEPOWER	DN	DOWNSIDE	FOT	FUEL OIL RETURN	MATL	MATERIAL	PH	PHASE	SR	SUPPLY REGISTER	WG	WATER GAUGE
BLD	BUILDING	DN	DOWNSIDE	FOS	FUEL OIL SUPPLY	MATL	MATERIAL	PH	PHASE	SS	STAINLESS STEEL	WP	WEATHER-PROOF
BLR	BOILER	DN	DOWNSIDE	FOT	FUEL OIL RETURN	MATL	MATERIAL	PH	PHASE	STD	STANDARD	XP	EXPLOSION-PROOF
BLN	BOILER	DN	DOWNSIDE	FOT	FUEL OIL RETURN	MATL	MATERIAL	PH	PHASE	STD	STANDARD		
BOD	BOTTOM OF DUCT	DPR	DAMPEN	FPC	FIRE PROTECTION CONTRACTOR	MAV	MANUAL AIR VENT	PRESS	PRESSURE	STL	STEEL		
BOP	BOTTOM OF PIPE	DPT	DEW POINT TEMPERATURE	FFM	FEET PER MINUTE	MBS	MAXIMUM BTU'S PER HOUR, THOUSAND	PRES	PRESSURE REDUCING VALVE	STR	STRUCTURAL		
BOT	BOTTOM	DR	DRAIN	FPVAV	FAN POWERED VAV	MC	MECHANICAL CONTRACTOR	PS	PRESSURE SWITCH	STL	STEEL		
BP	BOOSTER PUMP	DWG	DRAWING	FIR	FLOOR SINK	MCA	MECHANICAL CONTRACTOR	PSI	POUND PER SQUARE INCH	STL	STEEL		
BTU	BRITISH THERMAL UNIT	EA	EACH / EXHAUST AIR	FR	FIR TUBE RADIATION	MCA	MECHANICAL CONTRACTOR	PSIA	POUND PER SQUARE INCH ABSOLUTE	STR	STRUCTURAL		
BTUH	BTUS PER HOUR	EAH	EXHAUST AIR HOOD	GA	GALVANEZED	MECH	MECHANICAL	PSIG	POUND PER SQUARE INCH GAUGE	TCC	TEMPERATURE CONTROL CONTRACTOR		
BV	BALL VALVE	EAL	EXHAUST AIR LOUVER	GALV	GALVANEZED	MFG(R)	MANUFACTURER	PSI	POUND PER SQUARE INCH	TCV	TEMPERATURE CONTROL VALVE		
BW	BACKWATER VALVE	EAT	ENTERING AIR TEMPERATURE	GC	GENERAL CONTRACTOR	MISC	MISCELLANEOUS	PVC	POLYVINYL CHLORIDE	TE	TOP ELEVATION		

MECHANICAL SYMBOLS:

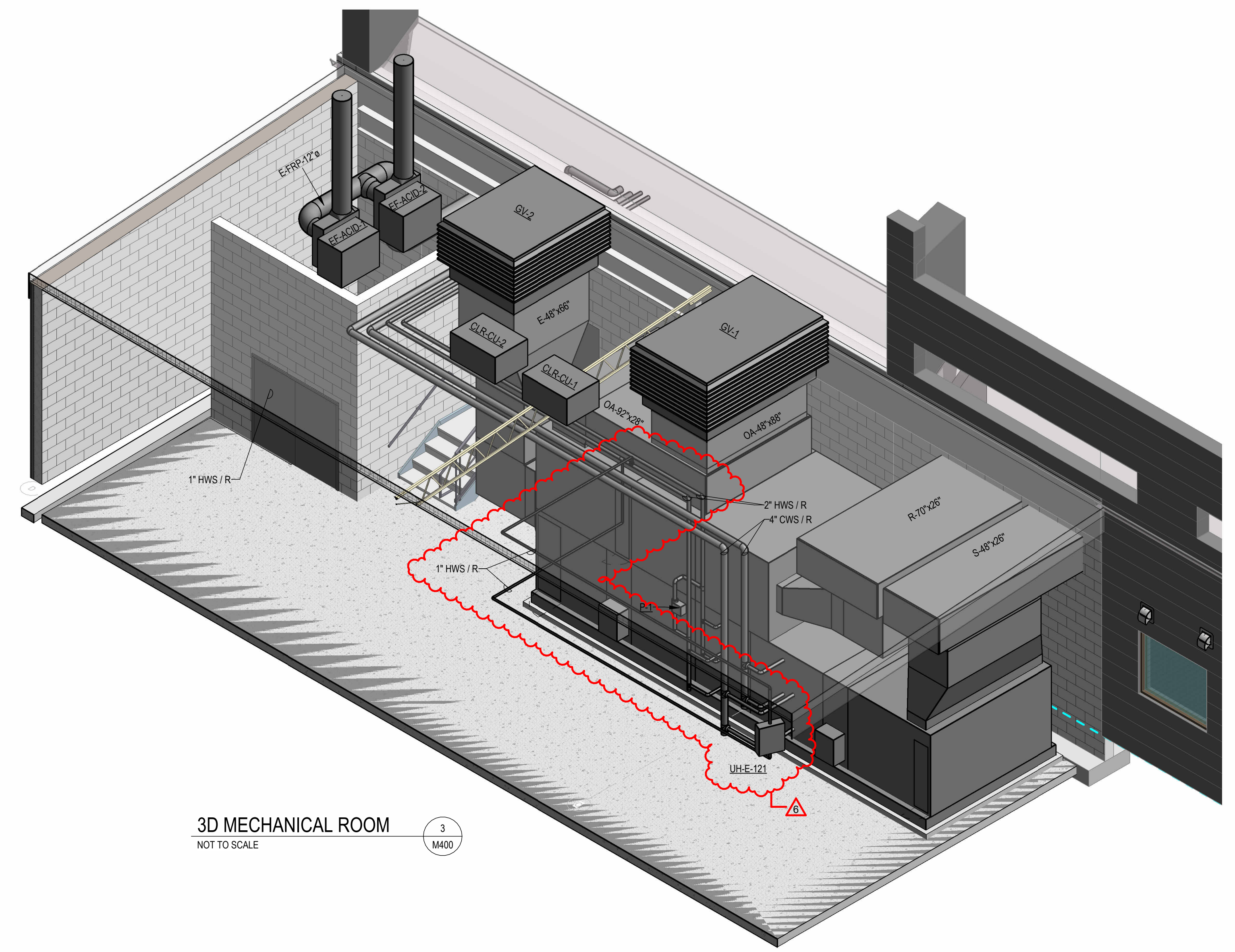
	BALANCING VALVE		END CAP		AIR FLOW DIRECTION		THERMOSTAT
	CIRCUIT SENSOR (VENTURI)		UNION		PARALLEL BLADE DAMPER		HUMIDISTAT
	GATE VALVE		FLANGED CONNECTION		FIRE DAMPER		CARBON DIOXIDE SENSOR
	BUTTERFLY VALVE		REDUCER		SMOKE DAMPER		CARBON MONOXIDE SENSOR
	GLOBE VALVE		PRESSURE-TEMPERATURE TEST STATION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

SHEET TITLE
MECHANICAL LEGEND & ABBREVIATIONS
SCALE 1/8" = 1'-0"
DRAWN BY ELEVATOR
DATE 01/10/2025
CORR No. E-3687

M000



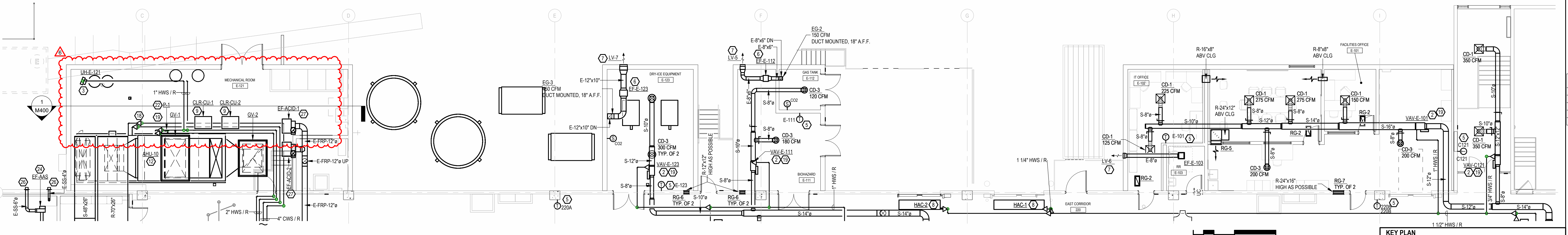
MECHANICAL ROOM SECTION
1/4" = 1'-0"



3D MECHANICAL ROOM
NOT TO SCALE

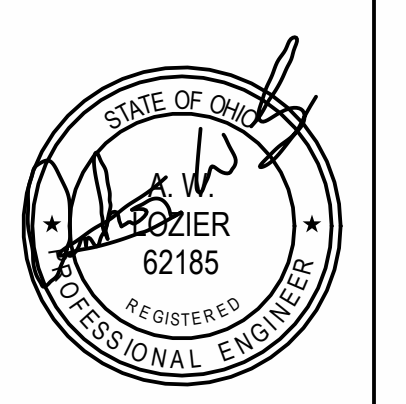
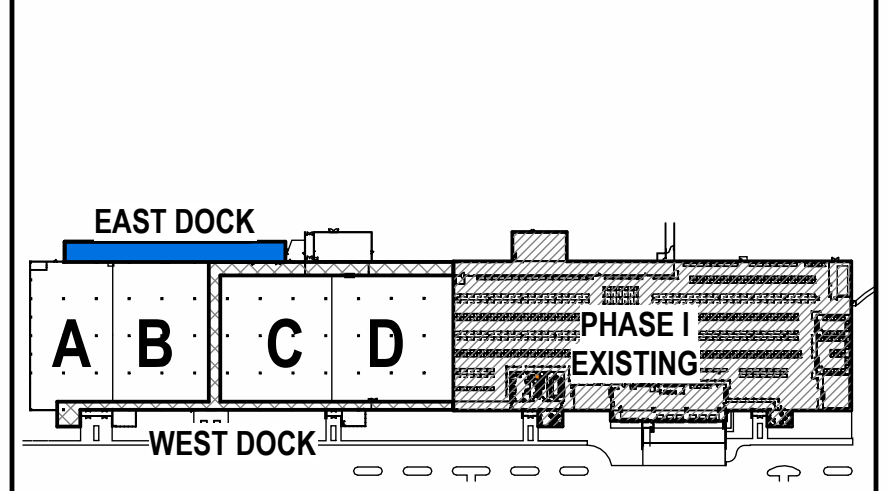
CODED NOTES (NOT ALL MAY APPLY):

1. PROVIDE NEW VERTICAL VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM ADJACENT WALL. REFER TO SECTION VIEW FOR MORE DETAIL.
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 IN PLACE OF EXISTING. CONTRACTOR TO COORDINATE ANY ADDITIONAL FRAMING AND FINISH REQUIREMENTS OF EXISTING OPENING TO ACCOMMODATE NEW CABINET UNIT HEATER SIZE.
5. NEW THERMOSTAT MOUNT AT APPROXIMATELY 5'-0" AFF. COORDINATE EXACT LOCATION IN FIELD. IF NOTATED "STACKED" MULTIPLE THERMOSTATS SHALL BE INSTALLED VERTICALLY IN AN ORDERLY FASHION.
6. PROVIDE NEW INLINE EXHAUST FAN SUSPENDED FROM STRUCTURE PER MANUFACTURER'S INSTALLATION GUIDELINES. FAN MUST REMAIN ACCESSIBLE FOR SERVICE.
7. PROVIDE NEW WALL LOUVER. COORDINATE MOUNTING REQUIREMENTS WITH EXISTING WALL. REFER TO SCHEDULE FOR MORE INFORMATION. THE HVAC CONTRACTOR IS TO PROVIDE A 2 INCH DEEP EXTERNALLY INSULATED SHEET METAL PLENUM FOR THE LOUVER THAT IS SEALED WATER-TIGHT AND PITCHED ON THE BOTTOM FOR GRAVITY DRAINAGE BACK THROUGH THE LOUVER.
8. PROVIDE NEW HOT WATER HEATED AIR CURTAIN. COORDINATE INSTALLATION LOCATION WITH OVERHEAD DOOR ASSEMBLY AND INSTALL PER MANUFACTURER'S GUIDELINES.
9. WALK IN COOLER EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO REFRIGERATION DRAWINGS OR SELECTION FOR INFORMATION. INSTALL AND PROVIDED BY OTHERS. GC TO PROVIDE EQUIPMENT ROOF SUPPORT CURB PER DETAIL.
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 INTERIOR AIR HANDLING UNIT MOUNTED ON 6" HOUSEKEEPING PAD (SEE DETAIL). REFER TO SCHEDULE AND DETAILS FOR MORE INFORMATION.
13. PROVIDE CEILING MOUNTED EXHAUST FAN. FAN TO RUN CONTINUOUSLY.
14. NEW AIR-COOLED CONDENSING UNIT LOCATED ON ROOF. INSTALL AT APPROXIMATE LOCATION AS SHOWN. THE CONDENSING UNIT IS TO BE INSTALLED ON EQUIPMENT SUPPORT CURBS (SEE DETAIL). THE UNIT IS TO BE RIGIDLY SECURED TO THE SUPPORT CURBS WHICH ARE TO BE RIGIDLY SECURED TO THE ROOF STRUCTURE. REFER TO MANUFACTURER'S MANUALS FOR ADDITIONAL REQUIREMENTS.
15. MOUNT NEW WALL MOUNTED FAN COIL UNIT ABOVE DOOR. INSTALL ALL REFRIGERANT PIPING PER MANUFACTURER'S GUIDELINES. ROUTE CONDENSATE PIPING TO NEARBY MOP SINK AND INDIRECTLY DISCHARGE.
16. SUPPLY DRUM LOUVER TO BE ROTATED ON DUCT AT 45° TOWARD THE FLOOR. TYPICAL IN FREEZER/COOLER AREAS.
17. PROVIDE 1"x1" WIRE MESH SCREEN OVER RETURN DUCT OPENING.
18. CONNECT CWS/R PIPING TO AHU COIL AS REQUIRED. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
19. CONNECT HWS/R PIPING TO COIL AS REQUIRED. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
20. PROVIDE DUCT MOUNTED SMOKE DETECTOR AND TIE INTO FIRE ALARM SYSTEM.
21. EXISTING THERMOSTAT TO BE RELOCATED TO THIS LOCATION. MOUNT AT APPROXIMATELY 5'-0" AFF. COORDINATE EXACT LOCATION IN FIELD. IF NOTATED "STACKED" MULTIPLE THERMOSTATS SHALL BE INSTALLED VERTICALLY IN AN ORDERLY FASHION.
22. PROVIDE COIL RUNAROUND INLINE PUMP FOR FREEZE PROTECTION. REFER TO DETAILS AND SCHEDULE FOR MORE INFORMATION.
23. STUB EXHAUST DUCT DOWN THROUGH CEILING IN THE APPROXIMATE LOCATION OF FUTURE LAB EQUIPMENT AND CAP AS REQUIRED FOR FUTURE CONNECTION.
24. PROVIDE NEW CENTRIFUGAL EXHAUST FAN BELOW ROOF SUPPORTED FROM STRUCTURE AS REQUIRED AND EXTEND DISCHARGE DUCTWORK OUT EXTERIOR WALL. INTERLOCK FAN OPERATION WITH SWITCH ON WALL NEAR SPECTROMETER. REFER TO ELECTRICAL DRAWINGS. FAN SHALL BE PROVIDED BY THE MANUFACTURER OF THE SPECTROMETER AS A FACTORY OPTION.
25. STUB EXHAUST DUCT DOWN THROUGH CEILING IN THE APPROXIMATE LOCATION OF FUTURE LAB EQUIPMENT. REDUCE TO 2-1/2" CONNECTION, AND CAP AS REQUIRED FOR FUTURE CONNECTION.
26. PROVIDE STAINLESS STEEL EXHAUST WALL VENT CAP WITH BACKDRAFT DAMPER.
27. PROVIDE NEW FIBERGLASS CENTRIFUGAL EXHAUST FAN LOCATED ON ROOF (REFER TO DETAIL). INSTALL AT APPROXIMATE LOCATION AS SHOWN AND MAINTAIN 10'-0" FROM THE EDGE OF ROOF. THE EXHAUST FAN IS TO BE RIGIDLY SECURED TO THE SUPPORT CURBS (SEE DETAIL). THE UNIT IS TO BE RIGIDLY SECURED TO THE ROOF STRUCTURE. REFER TO MANUFACTURER'S MANUALS FOR ADDITIONAL REQUIREMENTS.
28. PROVIDE NEW BALL VALVE WITH CAP AND HOSE CONNECTION FOR DRAINING PURPOSES.

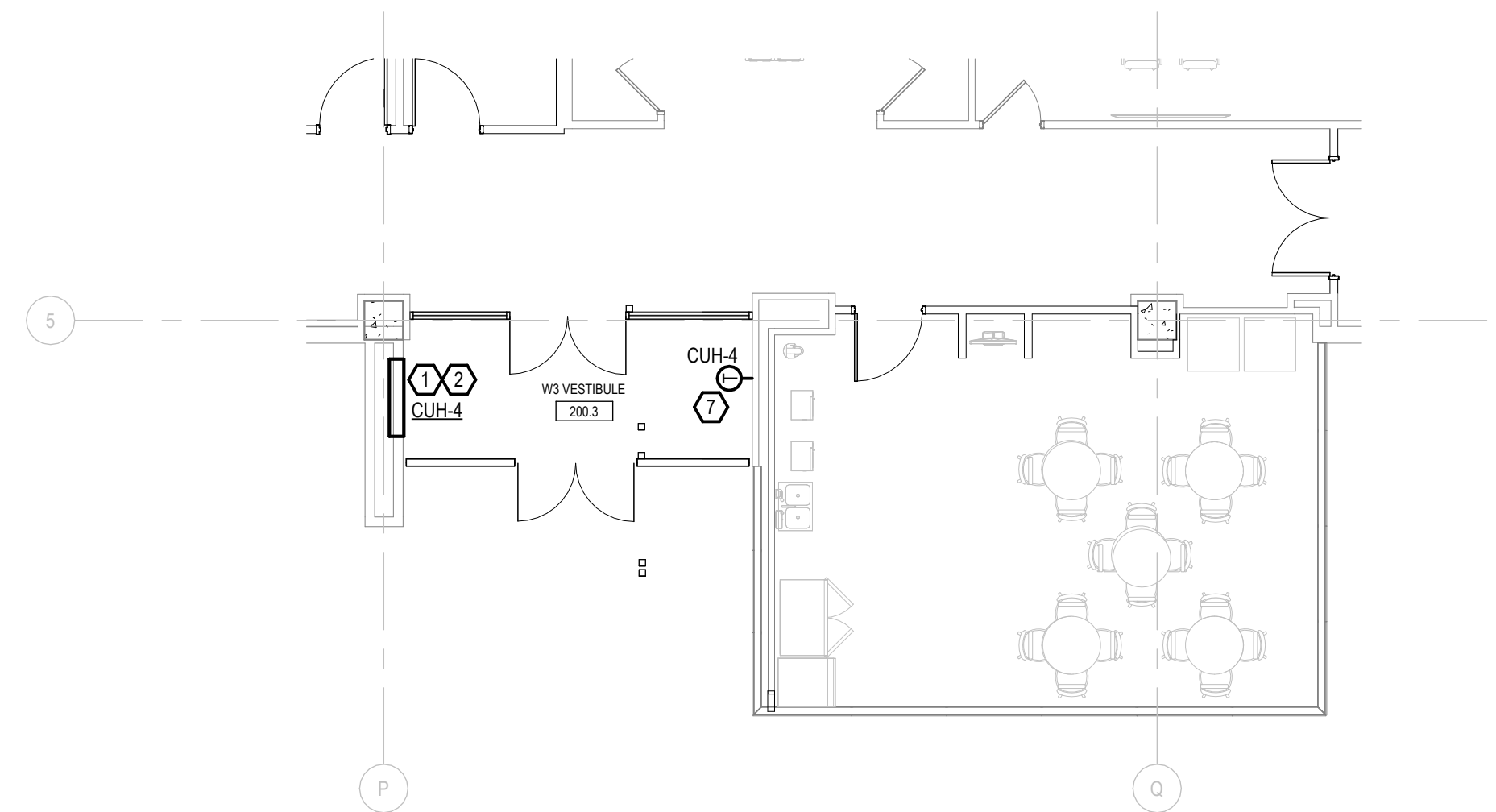


EAST DOCK OFFICE & EAST DOCK MECHANICAL PLAN
1/8" = 1'-0"

KEY PLAN

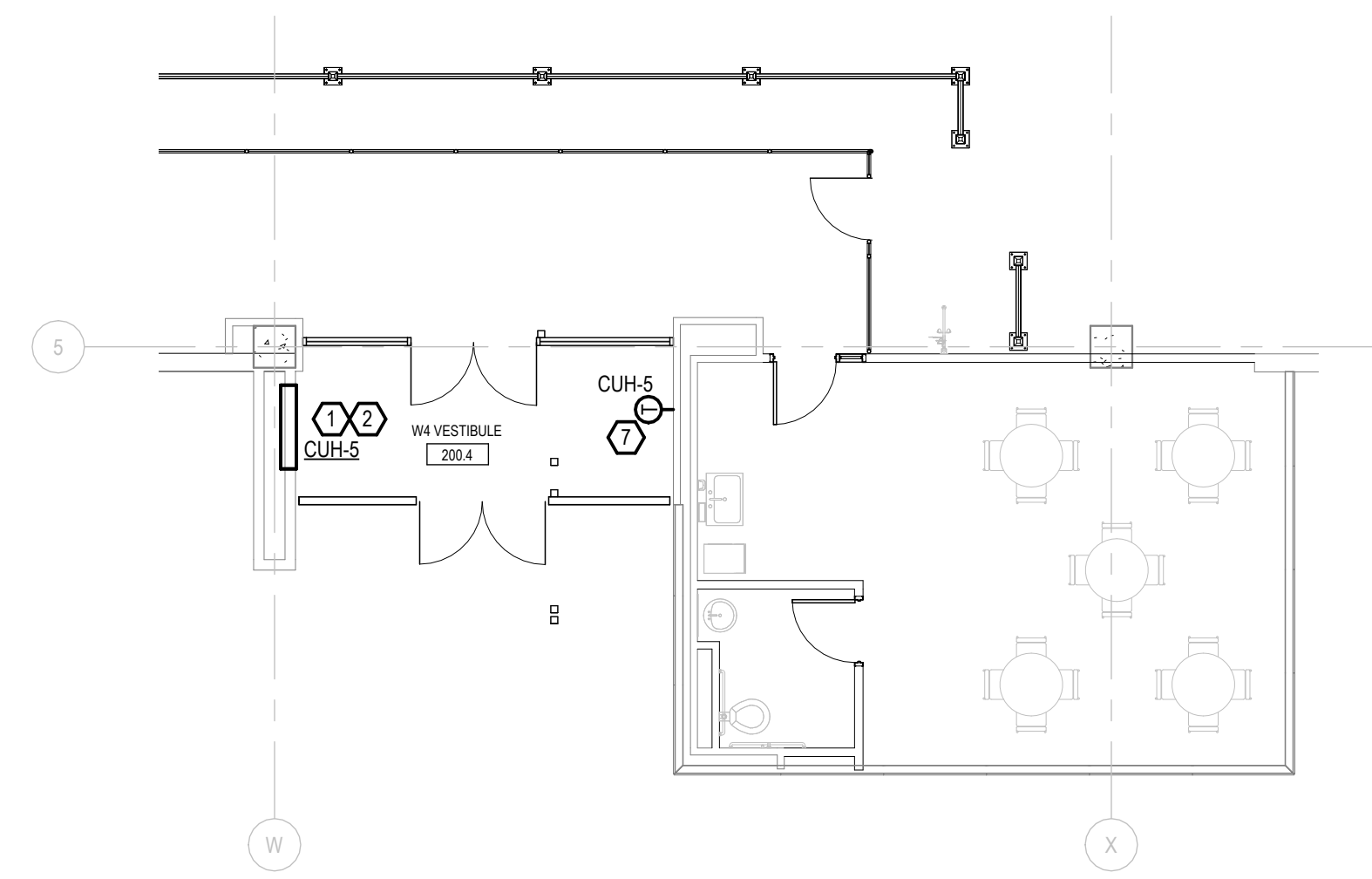


ISSUED	DATE
1. IMP/PERMIT RESPONSE	01/10/2025
2. ADDENDUM #1	01/24/2025
3. ADDENDUM #2	02/10/2025
4. BULLETIN #1	04/04/2025
5. BULLETIN #2	06/09/2025
6. BULLETIN #3	07/18/2025



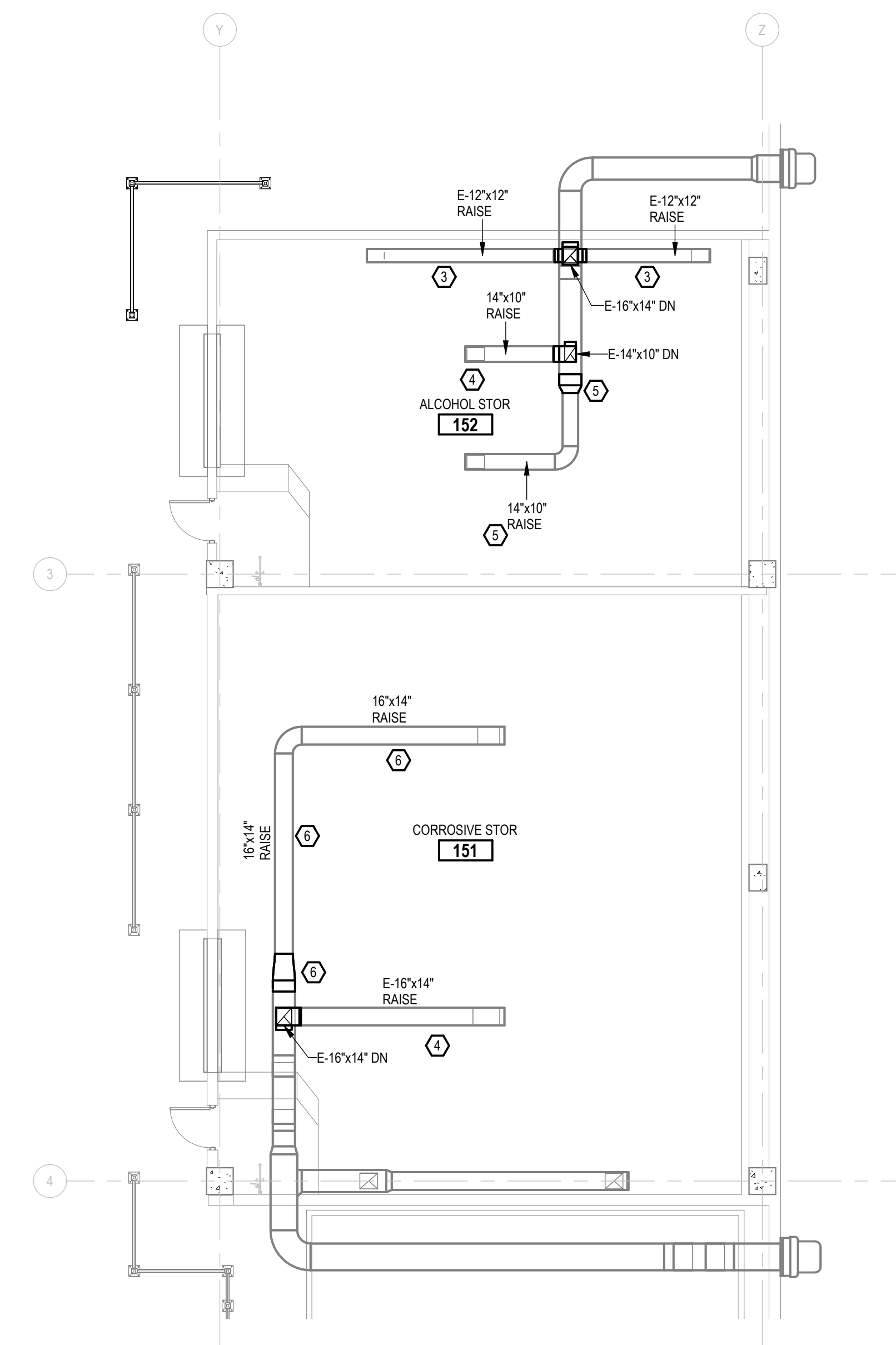
PHASE 1 MECHANICAL ALTERATIONS - W3 VESTIBULE

1/8" = 1'-0"



PHASE 1 MECHANICAL ALTERATIONS - W4 VESTIBULE

1/8" = 1'-0"



PHASE 1 MECHANICAL ALTERATIONS - HAZARDOUS STORAGE

1/8" = 1'-0"



CODED NOTES:

1. PROVIDE NEW HOT WATER CABINET UNIT HEATER IN PLACE OF EXISTING. CONTRACTOR TO COORDINATE ANY ADDITIONAL FRAMING AND FINISH REQUIREMENTS OF EXISTING OPENING TO ACCOMMODATE NEW CABINET UNIT HEATER SIZE.
2. CONNECT HWS/R PIPING AS REQUIRED TO CABINET UNIT HEATER. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
3. RAISE PORTION OF EXISTING EXHAUST DUCT AS HIGH AS POSSIBLE. CONNECT INTO VERTICAL 14x16 DUCT, ROUTE DOWN, AND CONNECT TO TOP OF EXISTING DUCT MAIN.
4. RAISE PORTION OF EXISTING EXHAUST DUCT AS HIGH AS POSSIBLE AND CONNECT INTO TOP OF EXISTING MAIN. COORDINATE TO NOT OBSTRUCT LIGHTING.
5. DISCONNECT FROM E-20x12 AND RAISE E-14x10 AS HIGH AS POSSIBLE WITH OGEE FITTING
6. DISCONNECT FROM E-20x18 AND RAISE E-16x14 AS HIGH AS POSSIBLE WITH OGEE FITTING
7. NEW THERMOSTAT. MOUNT AT APPROXIMATELY 5'-0" AFF. COORDINATE EXACT LOCATION IN FIELD. IF NOTATED "STACKED" MULTIPLE THERMOSTATS SHALL BE INSTALLED VERTICALLY IN AN ORDERLY FASHION.

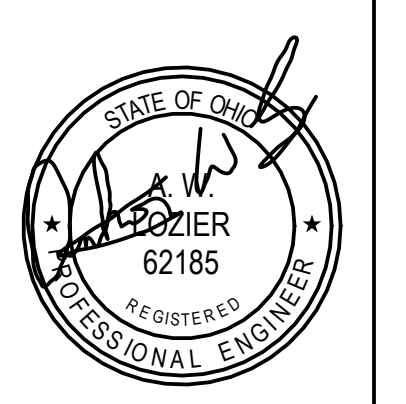
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SOLVITA - 950 FORRER BLVD RENOVATION - PHASE 2

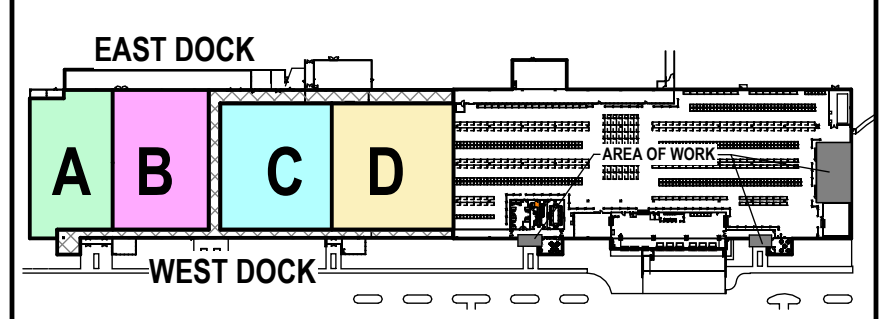
950 FORRER BLVD
 KETTERING, OHIO 45420

SOLVITA
 2900 COLLEGE DRIVE, KETTERING, OHIO 45420



ISSUED	DATE
1 GMP/PERMIT RESPONSE	01/10/2025
2 ADDENDUM #1	01/24/2025
3 ADDENDUM #2	02/10/2025

KEY PLAN

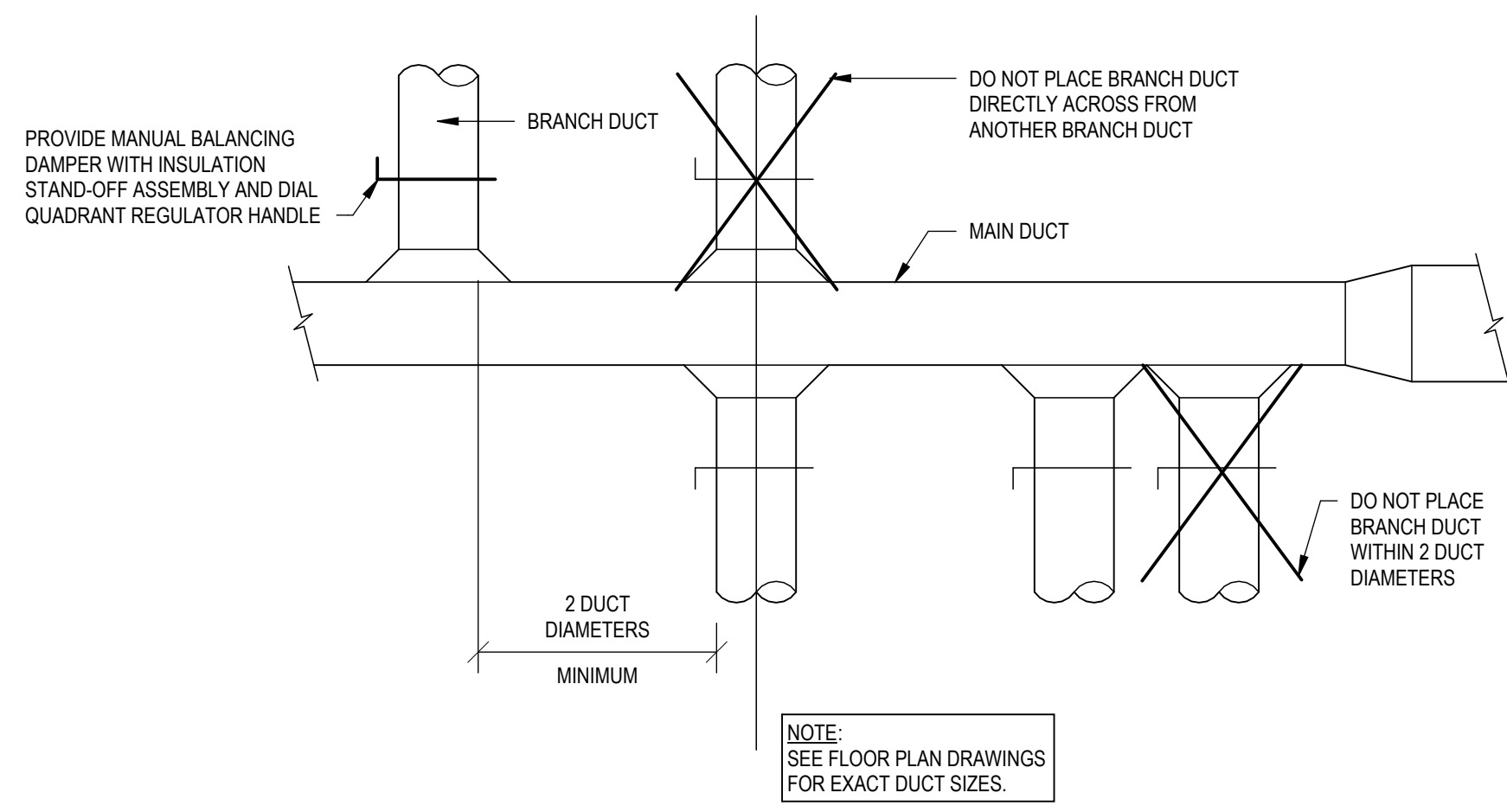


SHEET TITLE: ENLARGED MECHANICAL PLANS - PHASE 1 ALTERATIONS

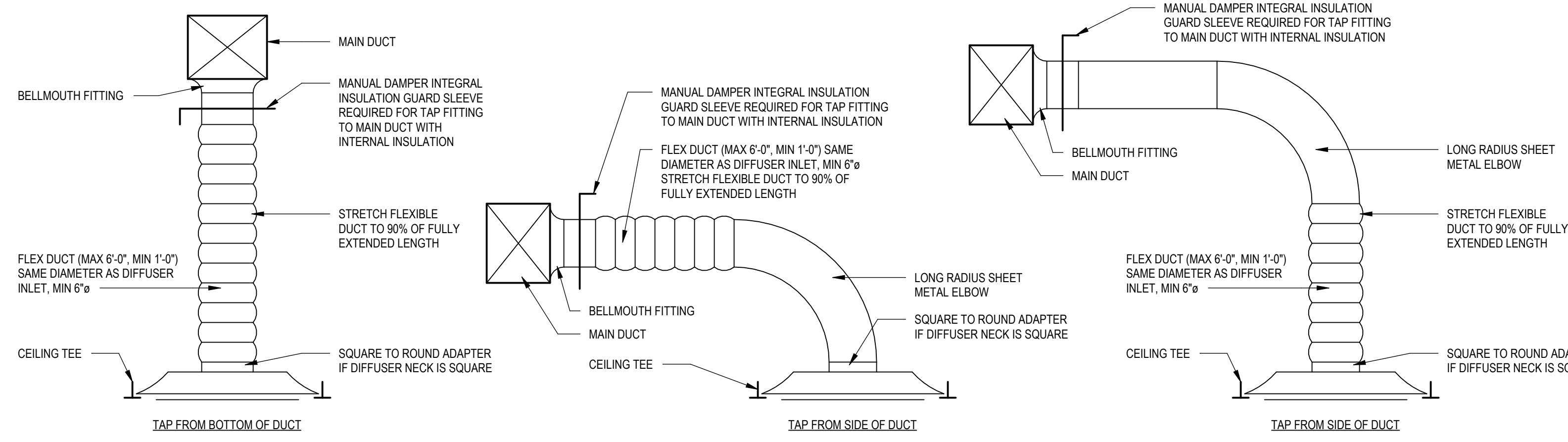
SCALE: 1/8" = 1'-0"

DRAWN BY: ELEVVAR DATE: 01/10/2025

SHEET: M401

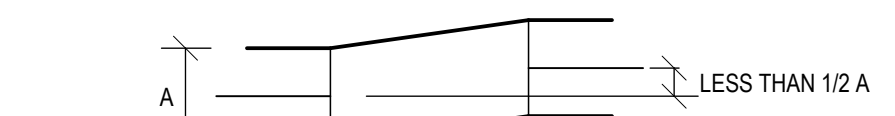


BRANCH DUCT CONNECTIONS
NOT TO SCALE



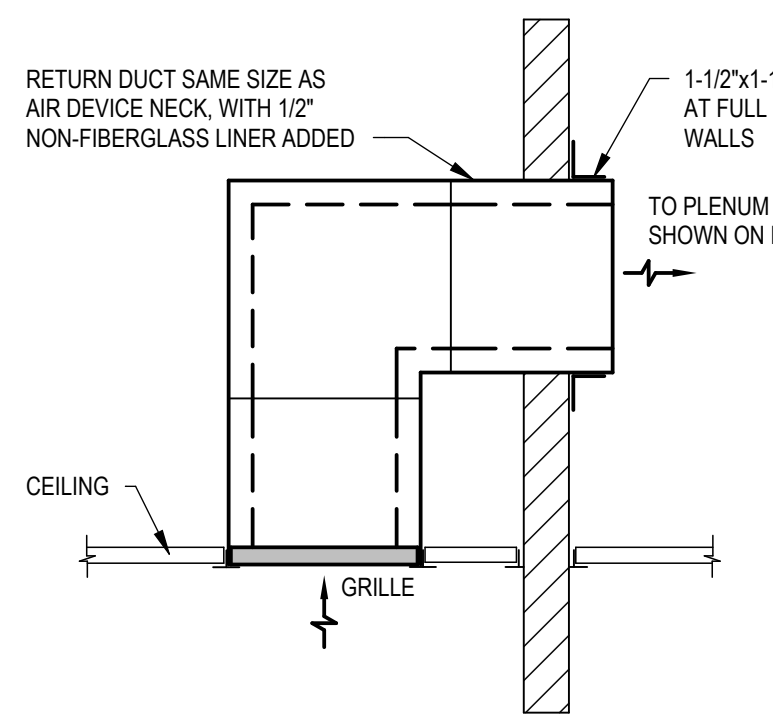
CEILING DIFFUSER CONNECTIONS
NOT TO SCALE

OFFSET GREATER THAN 1/2 DEPTH OF DUCT



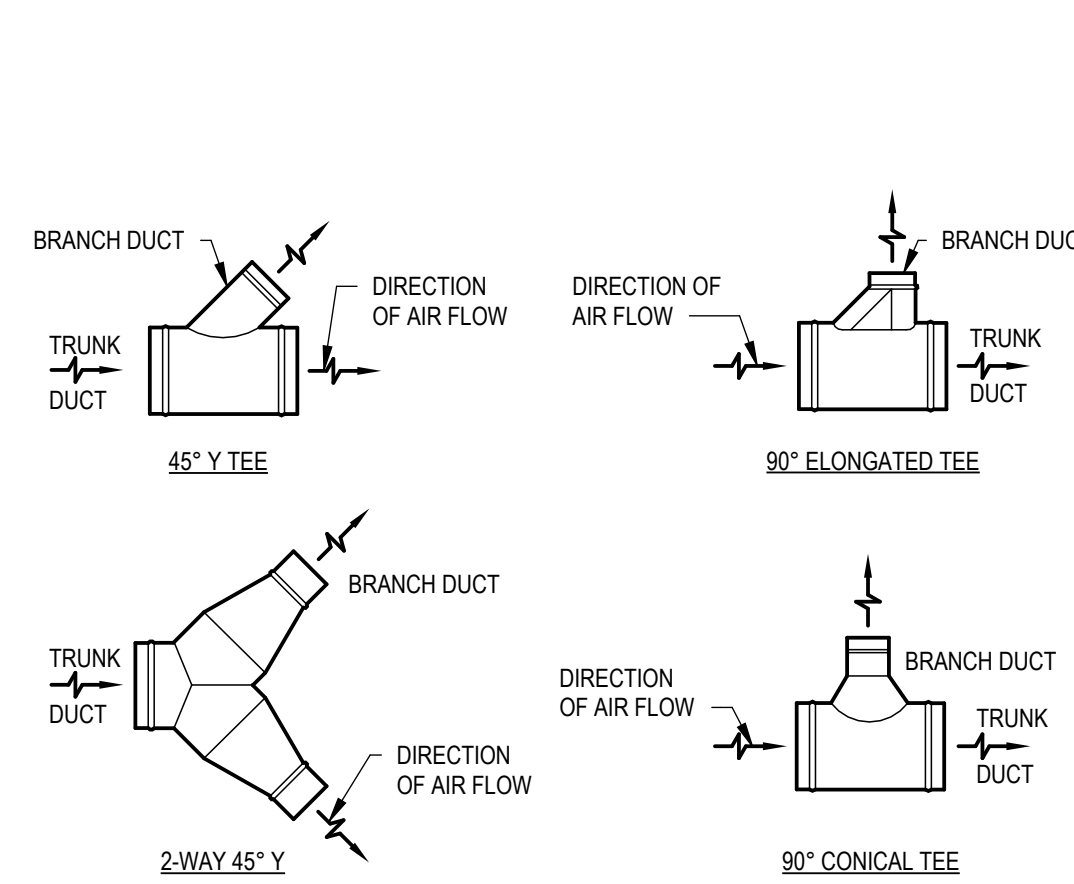
OFFSET LESS THAN 1/2 DEPTH OF DUCT

DUCT OFFSET
NOT TO SCALE



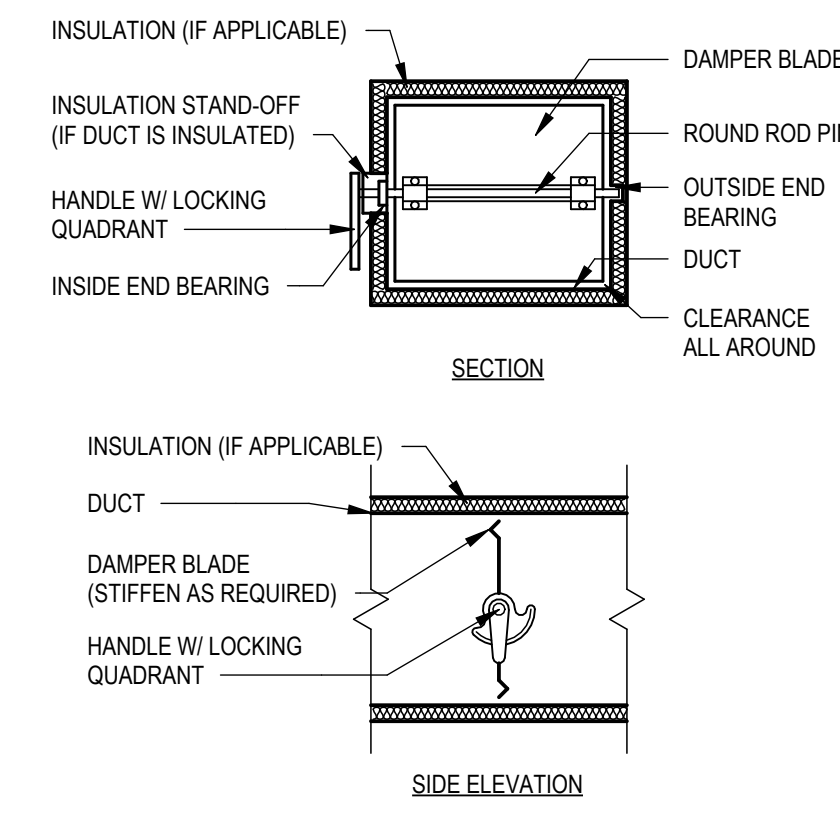
- NOTES:**
- SUPPORT SOUND ATTENUATING PLENUM FROM STRUCTURE ABOVE.
 - COORDINATE GRILLE LOCATION WITH STEEL, CEILING GRID, LIGHTS, SUPPLY DIFFUSERS, AND OTHER TRADES.
 - WHERE WALLS EXTEND TO THE DECK, SEAL WALL OPENING WITH 1-1/2" ANGLE FRAMING.

RETURN TRANSFER DUCT
NOT TO SCALE



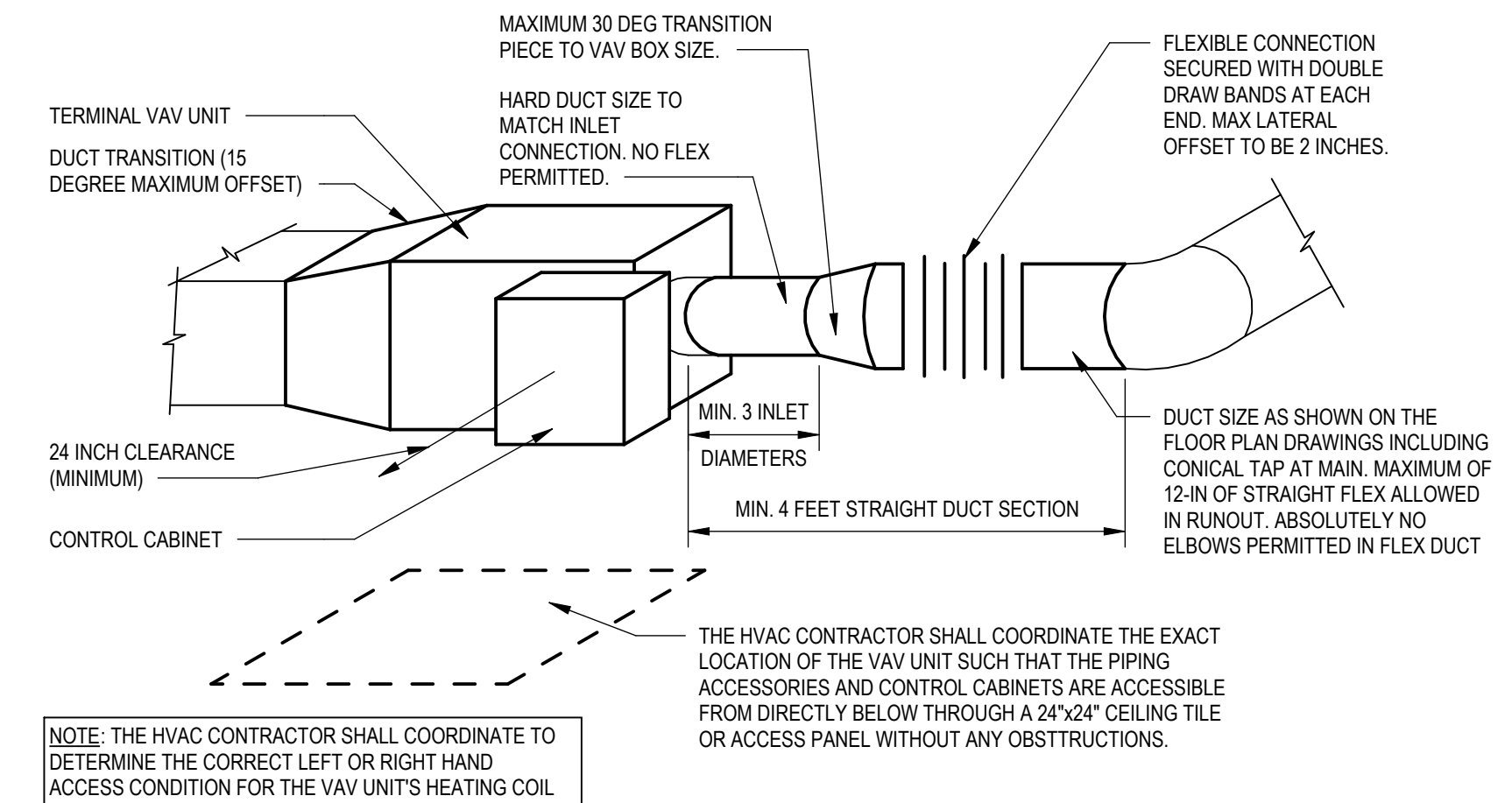
NOTE: PROVIDE BALANCING DAMPER AT ALL BRANCH TAKE-OFFS

ROUND DUCT BRANCH TAKE-OFF
NOT TO SCALE



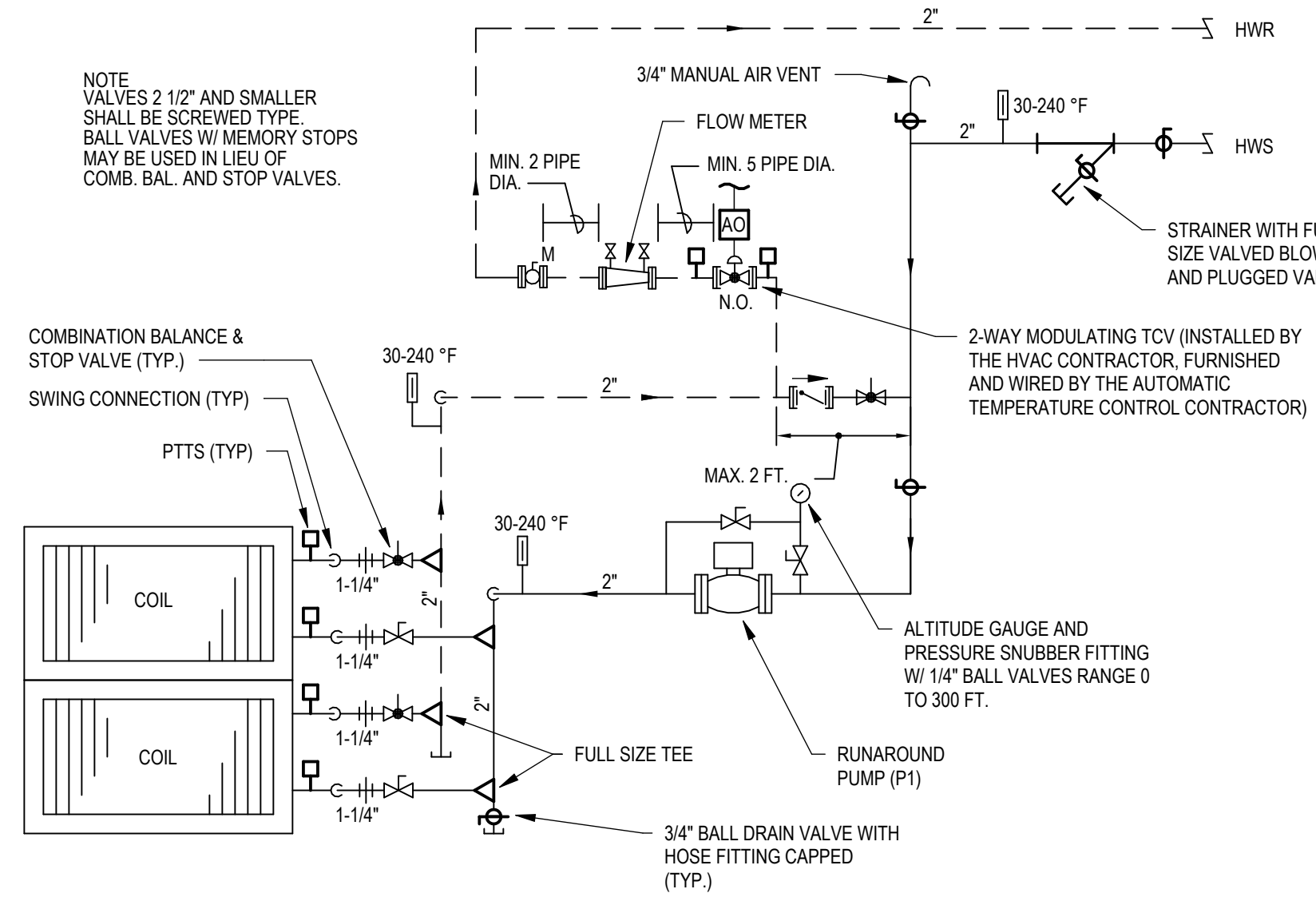
NOTE: RECTANGULAR, SINGLE-BLADE DAMPER SHOWN, INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE AND ROUND DAMPERS.

VOLUME DAMPER
NOT TO SCALE

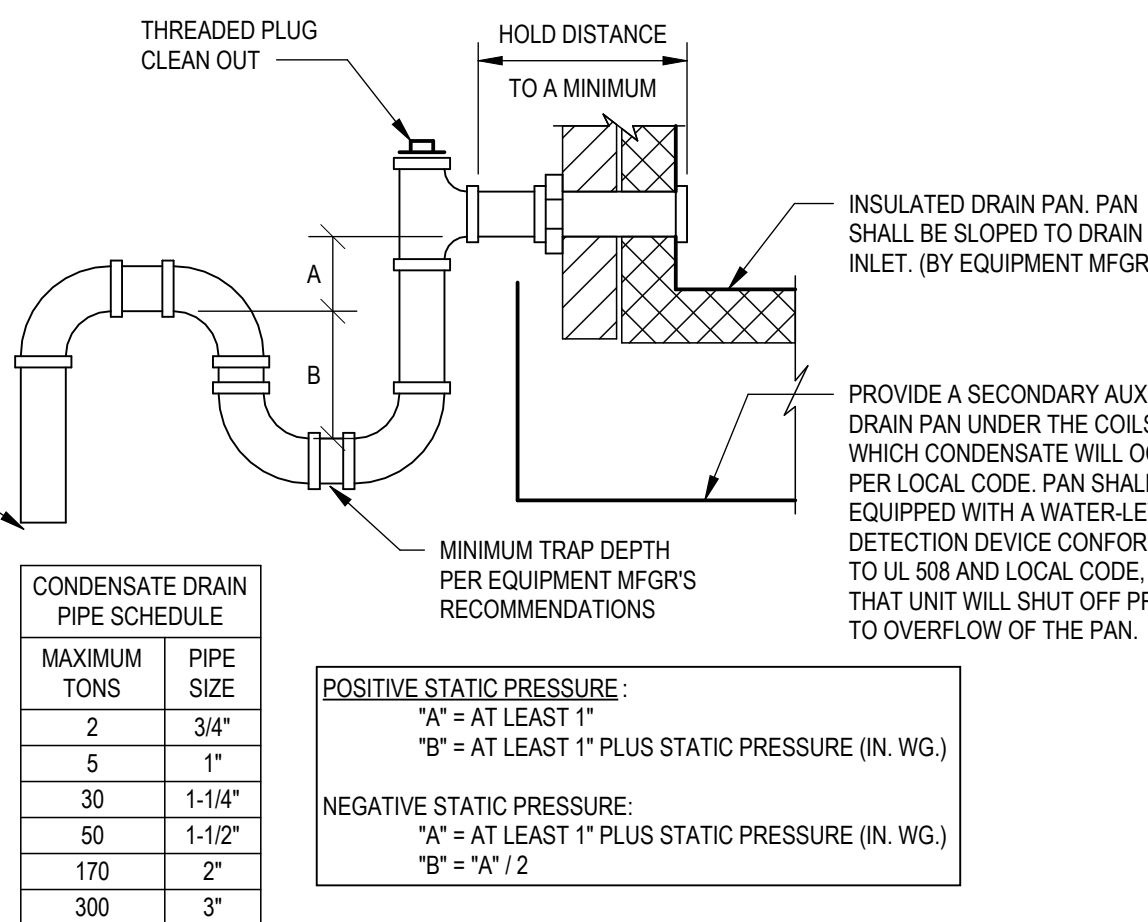


NOTE: THE HVAC CONTRACTOR SHALL COORDINATE TO DETERMINE THE CORRECT LEFT OR RIGHT HAND ACCESS CONDITION FOR THE VAV UNITS HEATING COIL AND CONTROL CABINET.

VAV UNIT INSTALLATION
NOT TO SCALE



AIR HANDLING UNIT - PREHEAT HEATING COILS
NOT TO SCALE



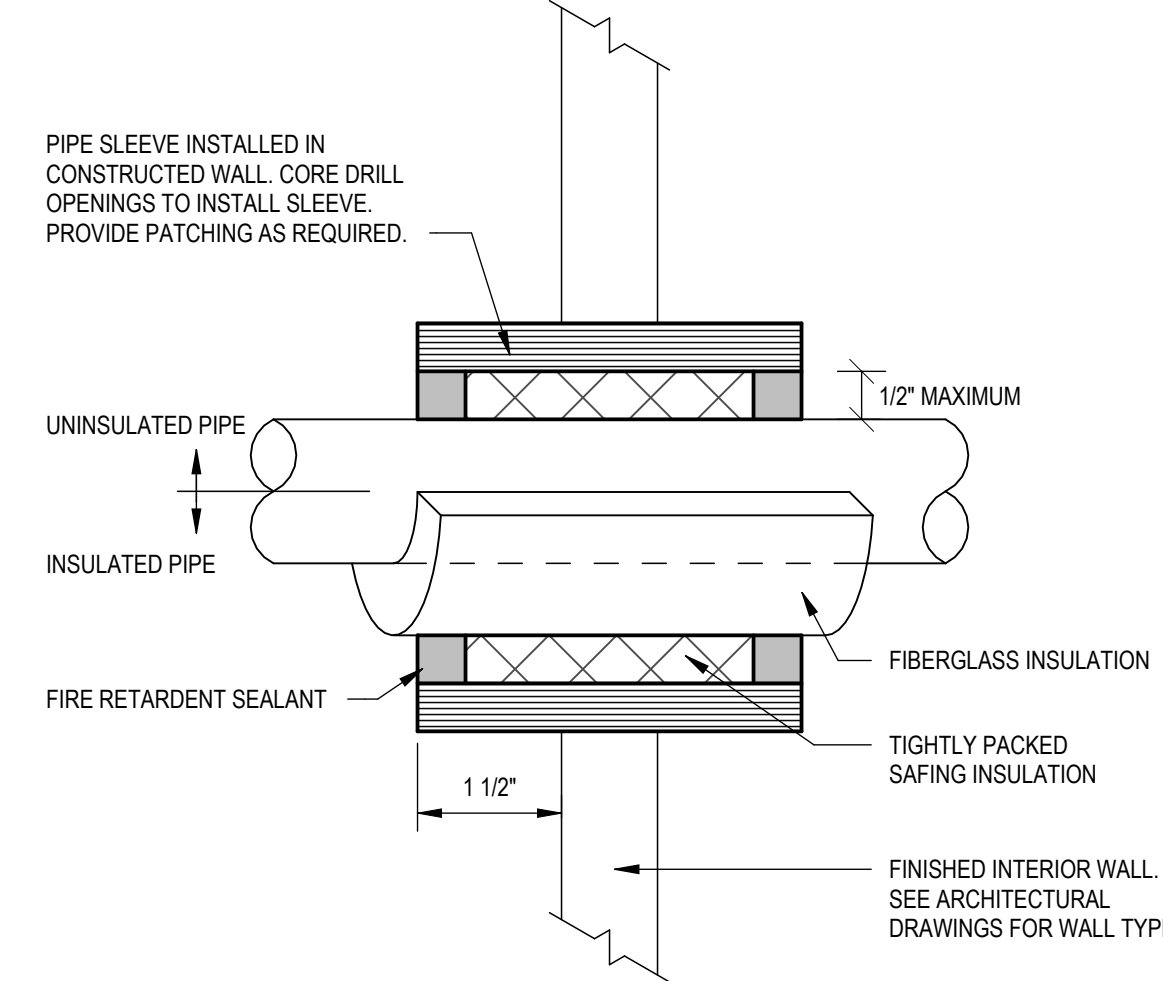
MAXIMUM TONS	PIPE SIZE
2	3/4"
5	1"
30	1-1/4"
50	1-1/2"
170	2"
300	3"

POSITIVE STATIC PRESSURE:
 "A" = AT LEAST 1"
 "B" = AT LEAST 1" PLUS STATIC PRESSURE (IN WG)

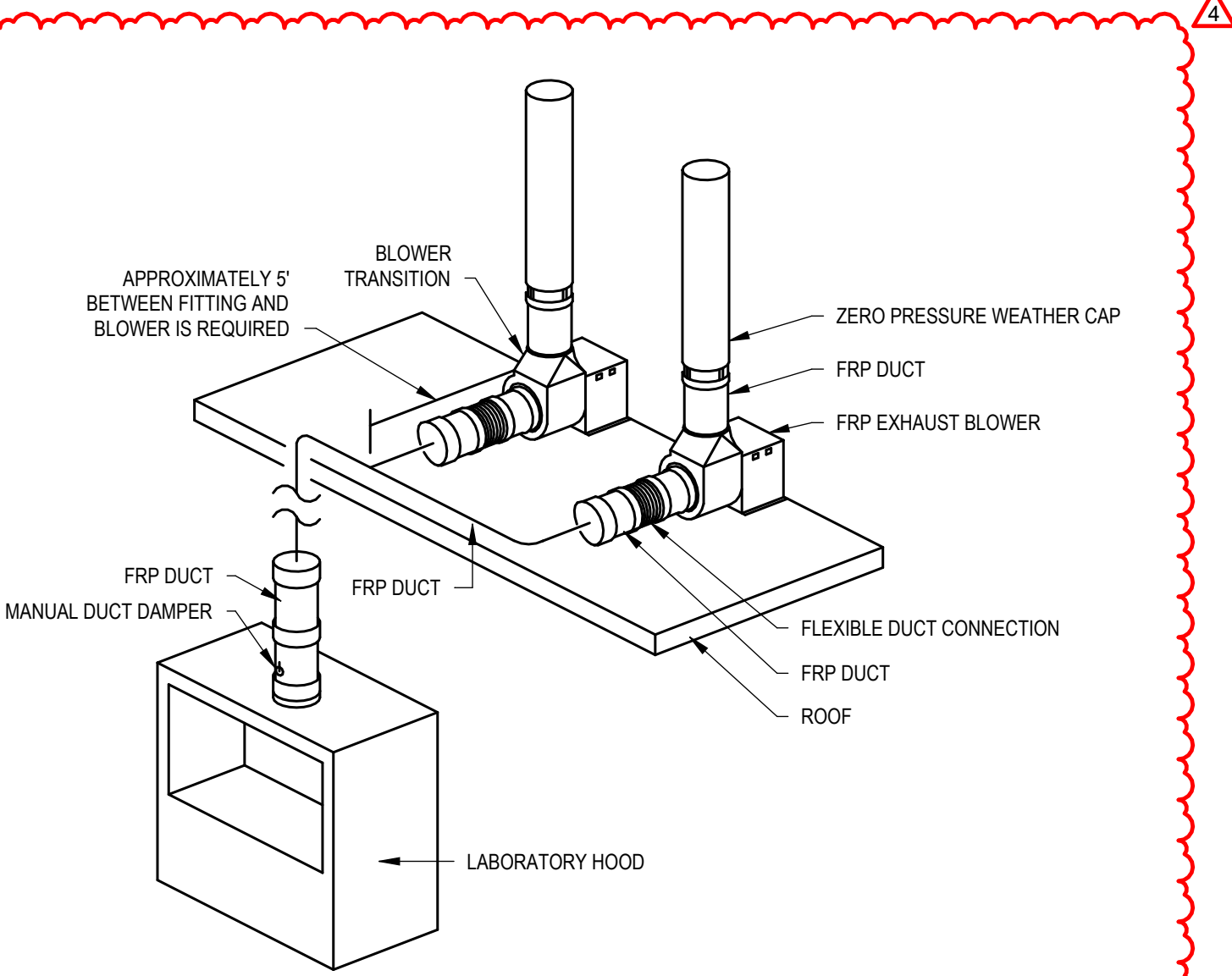
NEGATIVE STATIC PRESSURE:
 "A" = AT LEAST 1" PLUS STATIC PRESSURE (IN WG)
 "B" = "A" / 2

NOTE:
 SIZE SHALL NOT BE LESS THAN DRAIN PAN CONNECTION SIZE (MIN 3/4").

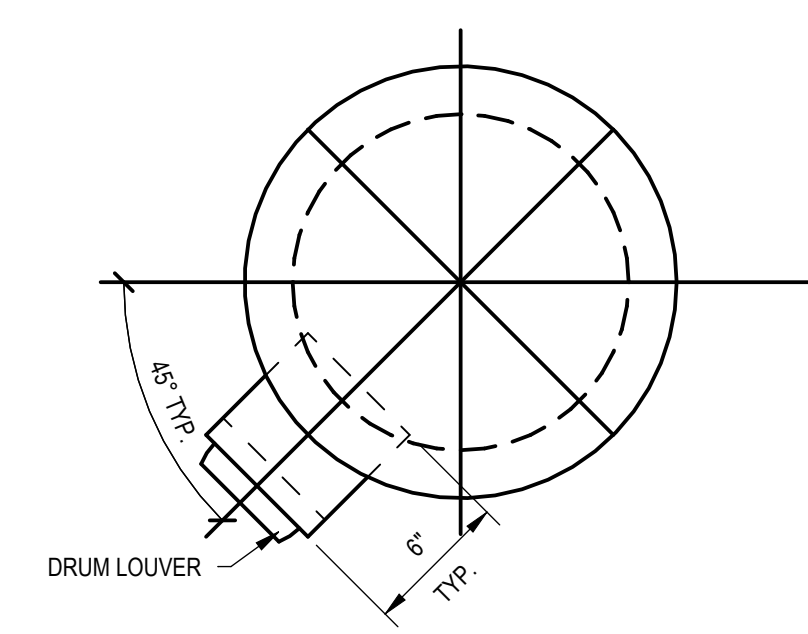
CONDENSATE DRAIN PIPE
NOT TO SCALE



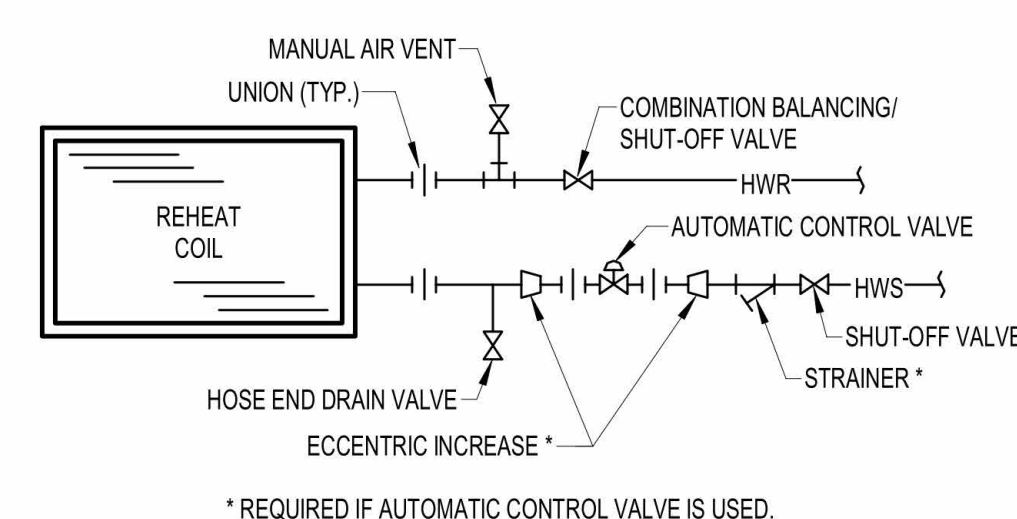
WALL PIPING PENETRATION
NOT TO SCALE



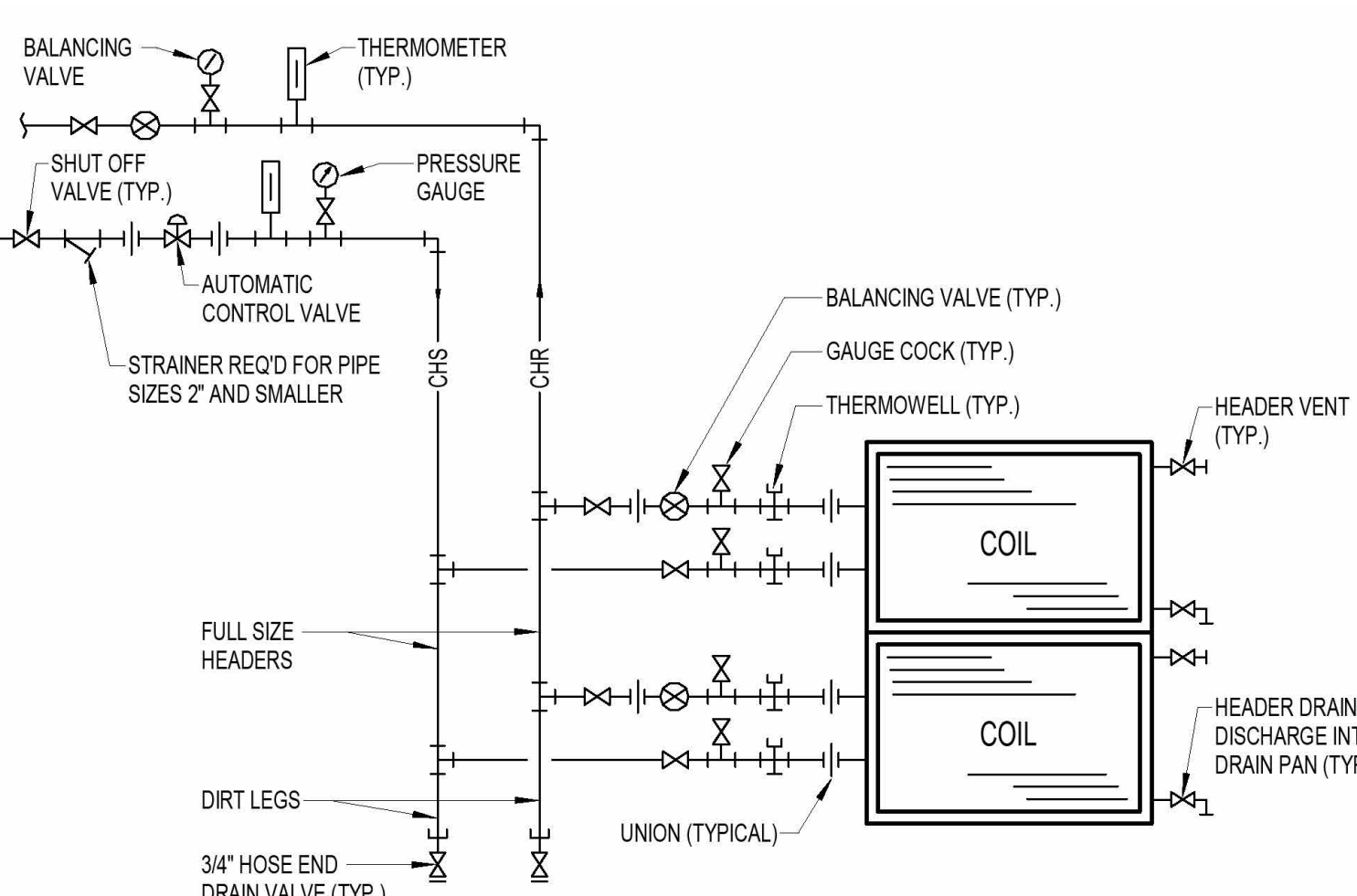
FUME HOOD VENTILATION SYSTEM
NOT TO SCALE



OPEN AREA DUCT - TYPICAL SECTION
NOT TO SCALE



VAV BOX REHEAT COIL PIPING DIAGRAM
NOT TO SCALE



CHILLED WATER COIL PIPING DETAIL (MULTIPLE COIL 2-WAY VALVE)
NOT TO SCALE

PART 1 - VERTICAL DUCTS

MAXIMUM SIDE OF RECTANGULAR DUCT	METAL STRAP OR ANGLE BRACKET	MAXIMUM DIAMETER OF ROUND DUCTS	STRAPS
24"	1" x 1/8" (STRAP) ¹	10"	0.047" (NO. 18 GAGE) GALVANIZED STEEL 2" WIDE ¹
36"	1" x 1/8" x 1/8" ANGLE ¹	20"	0.058" (NO. 18 GAGE) GALVANIZED STEEL 2" WIDE ¹
48"	1 1/8" x 1 1/8" x 1/8" ANGLE ¹	40"	1/8" STEEL x 1 1/2" ¹
60"	1 1/2" x 1 1/2" x 1/8" ANGLE ¹	60"	1/8" STEEL x 2" ¹
OVER 60"	2" x 2" x 1/8" ANGLE ¹	OVER 60"	3/16" STEEL x 2" ¹

PART 2 - HORIZONTAL DUCTS

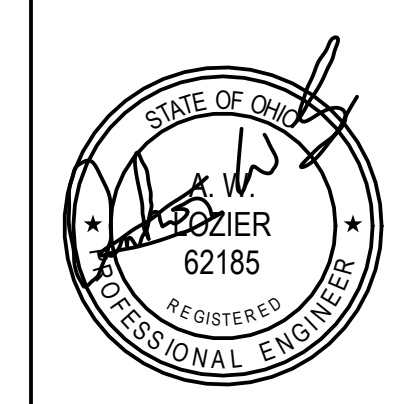
DUCT SIZE	SUPPORT SPACING	MAXIMUM DIAMETER OF ROUND DUCT OR SIDE OF RECTANGULAR DUCT	HANGER
18"	1' x 18 GAGE ²	10"	SAME GAGE AS GALVANIZED STEEL DUCT, 1" WIDE OR (NO. 18 GAGE GALVANIZED STEEL WIRE) ON 10" CENTERS
30"	1" x 18 GAGE ²	20"	SAME GAGE AS GALVANIZED STEEL DUCT, 1" WIDE OR (NO. 8 GAGE GALVANIZED STEEL WIRE) TIED TO 1" GALVANIZED STEEL BAND AROUND DUCT ON 10" CENTERS
48"	1" x 18 ²	40"	SAME GAGE AS GALVANIZED STEEL DUCT, 1 1/2" WIDE ON 6" CENTERS
60"	1" x 18 ²	60"	SAME GAGE AS GALVANIZED STEEL DUCT, 1 1/2" WIDE ON 6" CENTERS
80"	1" x 18 ²	80"	SAME GAGE AS GALVANIZED STEEL DUCT, 1 1/2" WIDE ON 6" CENTERS
OVER 60"	1" x 18 ²	OVER 60"	SAME GAGE AS GALVANIZED STEEL DUCT, 1 1/2" WIDE ON 6" CENTERS

PART 3 - HORIZONTAL DUCTS: TRAPEZE - TYPE SUPPORTS

DUCT SIZE	SUPPORT SPACING	MAXIMUM DIAMETER OF ROUND DUCT OR SIDE OF RECTANGULAR DUCT	HORIZONTAL SUPPORT ANGLE ¹	HANGER
36"	1 1/2" x 1 1/2" x 1/8"	14"	ROUND ROD OR 1" x 1/8" ANGLE	1/4" ROUND ROD OR 1" x 1/8" ANGLE
48"	2" x 2" x 1/8"	14"	ROUND ROD OR 1" x 1/8" ANGLE	1/4" ROUND ROD OR 1" x 1/8" ANGLE
60"	2" x 2" x 1/8"	14"	ROUND ROD OR 1" x 1/8" ANGLE	1/4" ROUND ROD OR 1" x 1/8" ANGLE
84"	2" x 2" x 1/8"	14"	ROUND ROD OR 1" x 1/8" ANGLE	3/8" ROUND ROD OR 1" x 1/8" ANGLE

- SPACED VERTICALLY NOT MORE THAN 12 FEET ON CENTERS
- SPACED HORIZONTALLY NOT MORE THAN 10 FEET ON CENTERS
- SPACED NOT MORE THAN 6 FEET ON CENTERS

DUCT SUPPORT SCHEDULE
12" = 1'-0"



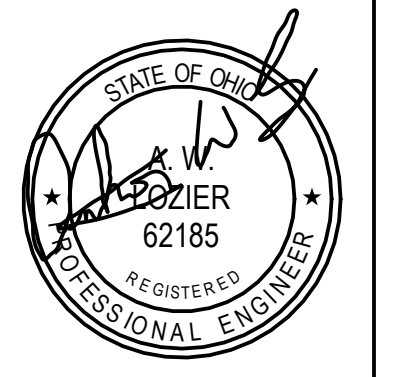
ISSUED	DATE
1 GMP/PERMIT RESPONSE	01/10/2025
2 ADDENDUM #1	01/24/2025
3 ADDENDUM #2	02/10/2025
4 BULLETIN #2	06/09/2025

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					
													NO. OF FIXTURES	EA PER FIXTURE	EA PER SF	REQUIRED EA (CFM)	ACTUAL EA (CFM)	CONTINUOUS EXHAUST
MICRO LAB OPEN FLOOR	A-100	10,193	Science Laboratory	25	10	0.18	255	34	2175	80%	2719	10080	0	0	1	10193	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	300	Yes
TRAINING	A-103	208	Office Space	5	5	0.06	1	5	37	80%	47	450	0	0	0	0	200	Yes
OFFICES	A-104	981	Office Space	5	5	0.06	5	12	119	80%	149	800	0	0	0	0	800	Yes
CORRIDOR	A-109	78	Office Space	5	5	0.06	0	0	5	80%	6	100	0	0	0	0	100	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	4	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	443	Science Laboratory	25	10	0.18	11	1	90	80%	112	400	0	0	1	443	630	Yes
CULTURE DISCARD & WASTE AIR LOCK	A-116	460	Science Laboratory	25	10	0.18	11	2	103	80%	128	400	0	0	1	460	950	Yes
SUPPLIES RECEIVING & QUARANTINE	A-118	263	Corridor	0	0	0.06	0	0	28	80%	35	260	0	0	0	0	0	No
TOTALS:		15,331		25	10	0.18	77	1	57	80%	72	300	0	0	1	263	900	Yes
							323	64				1490				12505	16680	

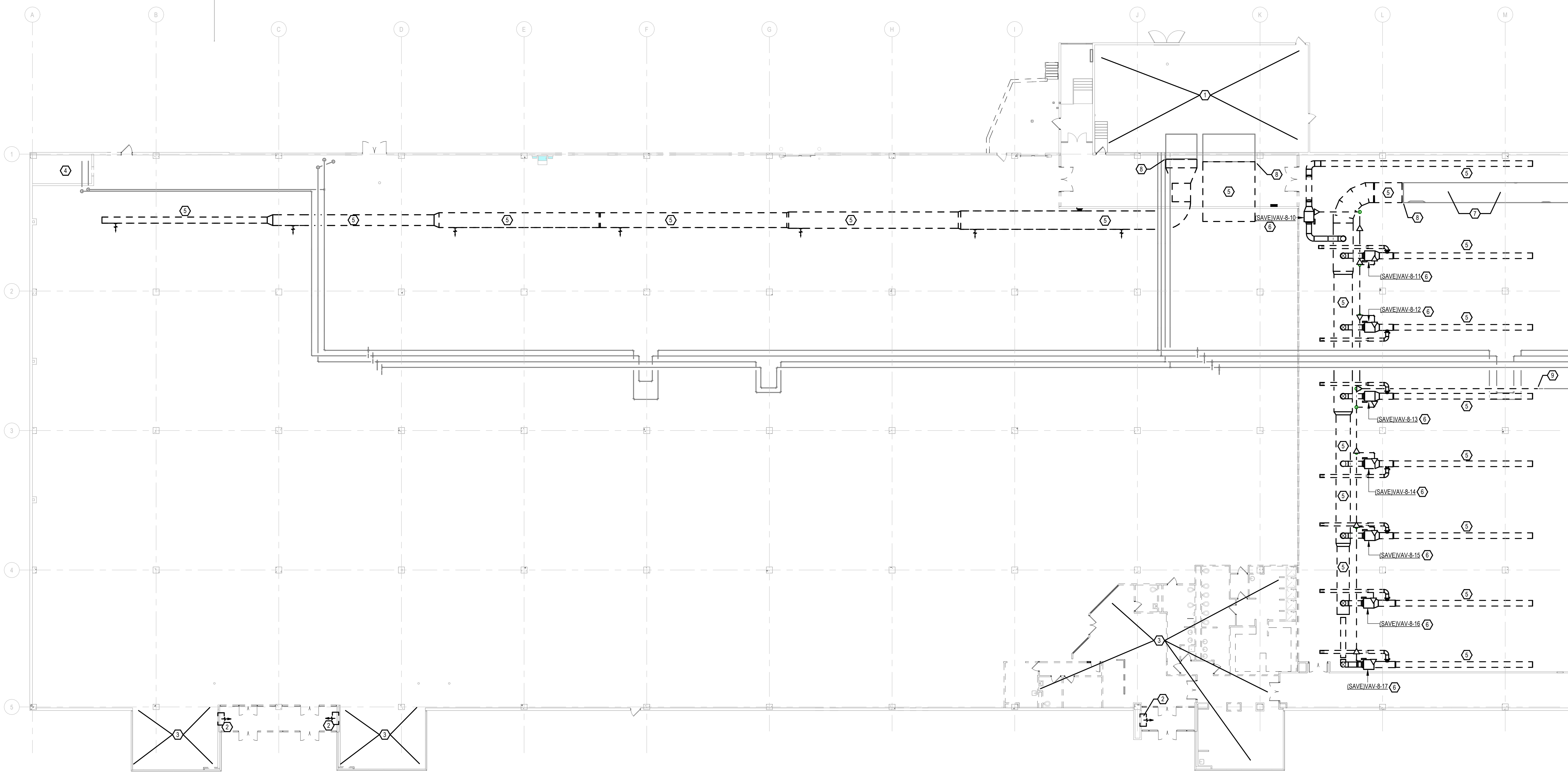
VENTILATION SCHEDULE - (VAV SYSTEM)- AHU-9																				
ROOM NAME	ROOM NUMBER	AREA (SF)	OCCUPANCY CATEGORY	MAX. NUMBER OF OCCUPANTS (PER 1000 SF)	OUTDOOR AIR PER OCC. (CFM)	OUTDOOR AIR PER FL AREA (CFM/SF)	DESIGN NUMBER OF PEOPLE	ACTUAL NUMBER OF PEOPLE	BREATHING ZONE OUTDOOR AIRFLOW (CFM) (Equation 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 OA (CFM)	EXHAUST REQUIREMENTS					
															NO. OF FIXTURES	EA PER FIXTURE	EA PER SF	REQUIRED EA (CFM)	ACTUAL EA (CFM)	CONTINUOUS EXHAUST
W1 VESTIBULE	200.1	309	Corridor	0	0	0.06	0	0	19	80%	35	139	650	52	0	0	0	0	No	
W2 VESTIBULE	200.2	131	Corridor	0	0	0.06	0	0	8	80%	15	68	330	26	0	0	0	0	No	
WEST CORRIDOR	201	640	Corridor	0	0	0.06	0	0	32	80%	60	644	300	242	0	0	0	0	No	
CAFETERIA	203	579	Break Room - Other	25	5	0.06	14	24	155	80%	290	378	1800	143	0	0	0	0	No	
CONFERENCE ROOM	204	555	Conference Room	50	5	0.06	28	16	115	80%	212	277	1520	109	0	0	0	0	No	
JANITORS	205	35	Janitor Closet, Trash, Recycling (Dry Materials)	2	5	0.06	0	0	2	80%	4	11	50	4	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	2,263	Corridor	0	0	0.06	0	0	136	80%	255	273	1300	103	0	0	0	0	0	No
MOTHERS ROOM	216	55	Office Space	5	5	0.06	0	1	8	80%	16	21	100	8	0	0	0	0	0	No
JANITORS ROOM	217	66	Janitor Closet, Trash, Recycling (Dry Materials)	2	5	0.06	0	0	4	80%	8	11	50	4	0	0	0	66	75	No
SHARED CONFERENCE	219	596	Conference Room	50	5	0.06	30	16	116	80%	217	284	1400	111	0	0	0	0	0	No
EAST CORRIDOR	220.1	3,338	Corridor	0	0	0.06	0	0	236	80%	432	462	2200	174	0	0	0	0	0	No
TISSUE RECEIVING	B-100	16,443	Storage, Occupiable (Dry Materials)	5	5	0.06	82	40	1187	80%	2225	4759	22660	1796	0	0	0	0	0	No
SUPPLY	B-101	239	Storage Room	0	0	0.12	0	1	29	80%	54	58	275	22	0	0	0	0	0	No
TRAINING	B-102	253	Office Space	5	5	0.06	1	4	35	80%	66	74	350	28	0	0	0	0	0	No
OFFICE	B-103	290	Office Space	5	5	0.06	1	2	27	80%	63	300	24	0	0	0	0	0	0	No
WINDOW PASS-THRU	B-104	91	Corridor	0	0	0.06	0	0	5	80%	10	21	100	8	0	0	0	0	0	No
CT SCAN VESTIBULE	B-110	97	Office Space	5	5	0.06	0	1	11	80%	20	44	210	17	0	0	0	0	0	No
CT SCAN	B-111	60	Office Space	5	5	0.06	0	2	14	80%	25	32	150	12	0	0	0	0	0	No
CT SCAN	B-112	61	Office Space	5	5	0.06	0	2	14	80%	26	32	150	12	0	0	0	0	0	No
OFFICE	B-114	212	Office Space	5	5	0.06	1	1	18	80%	33	53	250	20	0	0	0	0	0	No
HUDDLE	B-115	91	Conference Room	50	5	0.06	5	4	25	80%	48	63	300	24	0	0	0	0	0	No
HUDDLE	B-116	90	Conference Room	50	5	0.06	5	4	25	80%	48	53	250	20	0	0	0	0	0	No
DISTRIBUTION OPEN FLOOR	C-100	19,536	Storage, Occupiable (Dry Materials)	5	5	0.06	98	40	1372	80%	2573	6416	30550	2422	0	0	0	0	0	No
HUDDLE ROOM	C-105	122	Conference Room	50	5	0.06	6	4	27	80%	51	53	250	20	0	0	0	0	0	No
STANDARD MANAGER OFFICE	C-109	108	Office Space	5	5	0.06	1	1	11	80%	21	32	150	12	0	0	0	0	0	No
CUSTOMER SERVICE SETUP	C-110	135	Office Space	5	5	0.06	1	1	13	80%	25	32	150	12	0	0	0	0	0	No
HOT DESK/TRAINING AREA	C-111	122	Office Space	5	5	0.06	1	4	27	80%	51	63	300	24	0	0	0	0	0	No
SUPERVISOR'S DESK	C-112	215	Office Space	5	5	0.06	1	2	23	80%	43	47	225	18	0	0	0	0	0	No
FACILITIES OFFICE	E-101	120	Office Space	5	5	0.06	1	1	12	80%	23	32	150	12	0	0	0	0	0	No
IT OFFICE	E-102	271	Office Space	5	5	0.06	1	4	36	80%	68	74	350	28	0	0	0	0	75	No
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
FACILITIES MULTIPURPOSE	E-104	308	Conference Room	50	5	0.06	15	8	58	80%	110	116	550	44	0	0	0	0	0	No
FACILITIES WORKSHOP	E-105	650	Office Space	5	5	0.06	3	5	64	80%	120	189	900	71	0	0	0	0	0	No
BIOHAZARD	E-111	302	Storage, Occupiable (Dry Materials)	5	5	0.06	2	0	18	80%	34	38	180	14	0	0	0	0	0	No
GAS TANK	E-112	63	Storage, Occupiable (Dry Materials)	5	5	0.06	0	0	4	80%	7	25	120	10	0	0	1	63	75	No
DRY-ICE EQUIPMENT	E-123	307	Storage Room	0	0	0.12	0	0	37	80%	69	126	600	48	0	0	0	0	0	No
PICK-UP	W-200	524	Storage Room	0	0	0.12	0	0	63	80%	118	126	600	48	0	0	0	0	0	No
DROP-OFF	W-201	238	Storage Room	0	0	0.12	0	0	29	80%	54	58	275	22	0	0	0	0	0	No
TOTALS:		55,112					298	188				15247	72605	5755				666	825	

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 OA (CFM)	EXHAUST REQUIREMENTS					
															NO. OF FIXTURES	EA PER FIXTURE	EA PER SF	REQUIRED EA (CFM)	ACTUAL EA (CFM)	CONTINUOUS EXHAUST
EAST CORRIDOR-2	220-2	2,713	Corridor	0	0	0.06	0	0	163	80%	305	326	1550	217	0	0	0	0	0	No
EXISTING CORRIDOR	C-103	962	Corridor	0	0	0.06	0	0	59	80%	110	116	550	77	0	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	0	No
OFFICE	D-102	626	Office Space	5	5	0.06	3	8	78	80%	145	168	800	112	0	0	0	0	0	No
QC WORKSTATION	D-119	165	Office Space	5	5	0.06	1	1	11	80%	21	26	125	17	0	0	0	0	0	No
TOTALS:		23,437					99	59				4956	23600	3301				0	0	

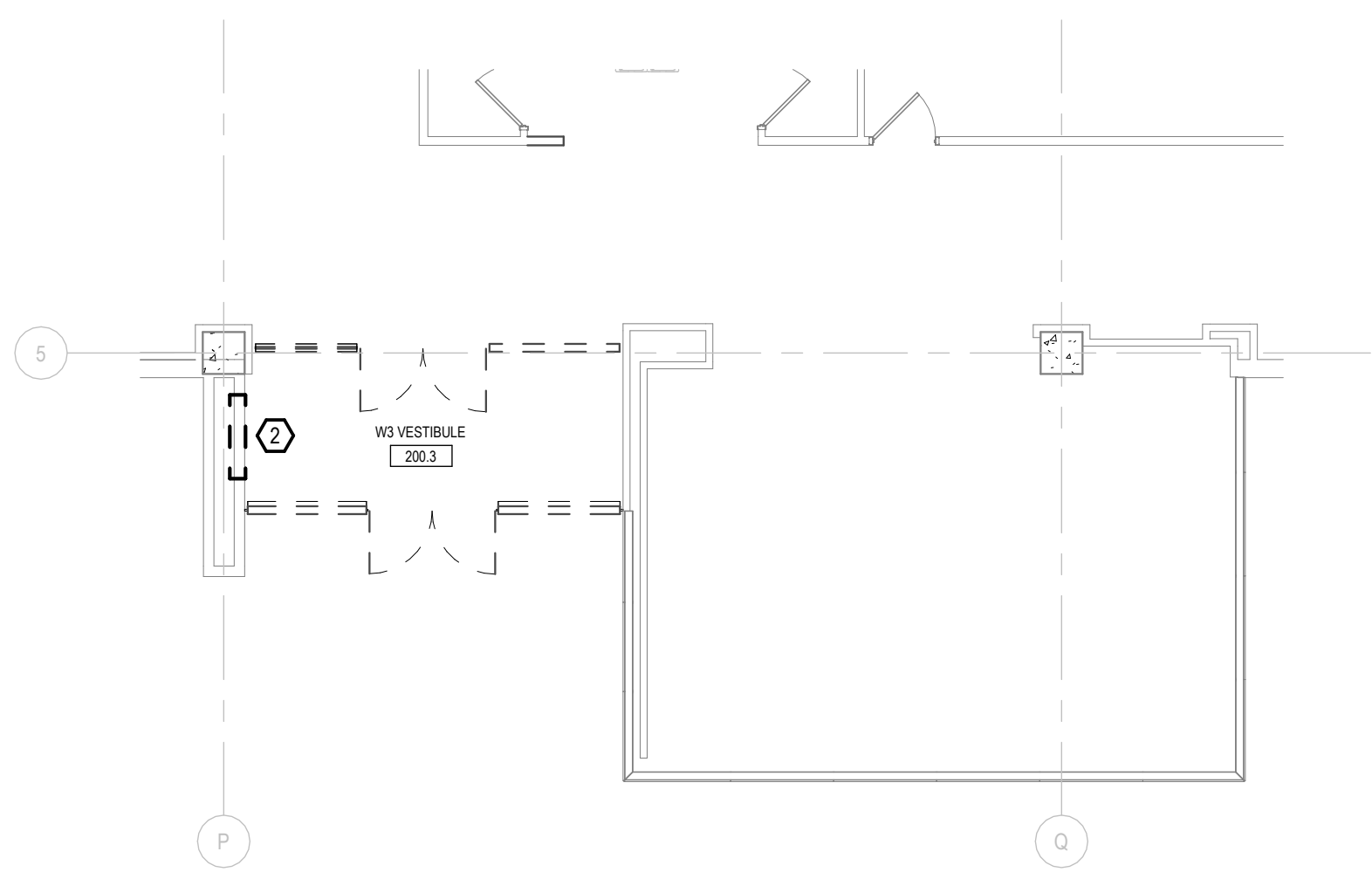
- NOTE:
- The design number of people shown for each room is the estimated maximum for each room per ASHRAE 62.1. The actual number of people is based on either the actual estimated occupancy.
 - The ventilation air calculations for this schedule are based on ASHRAE 62.1.



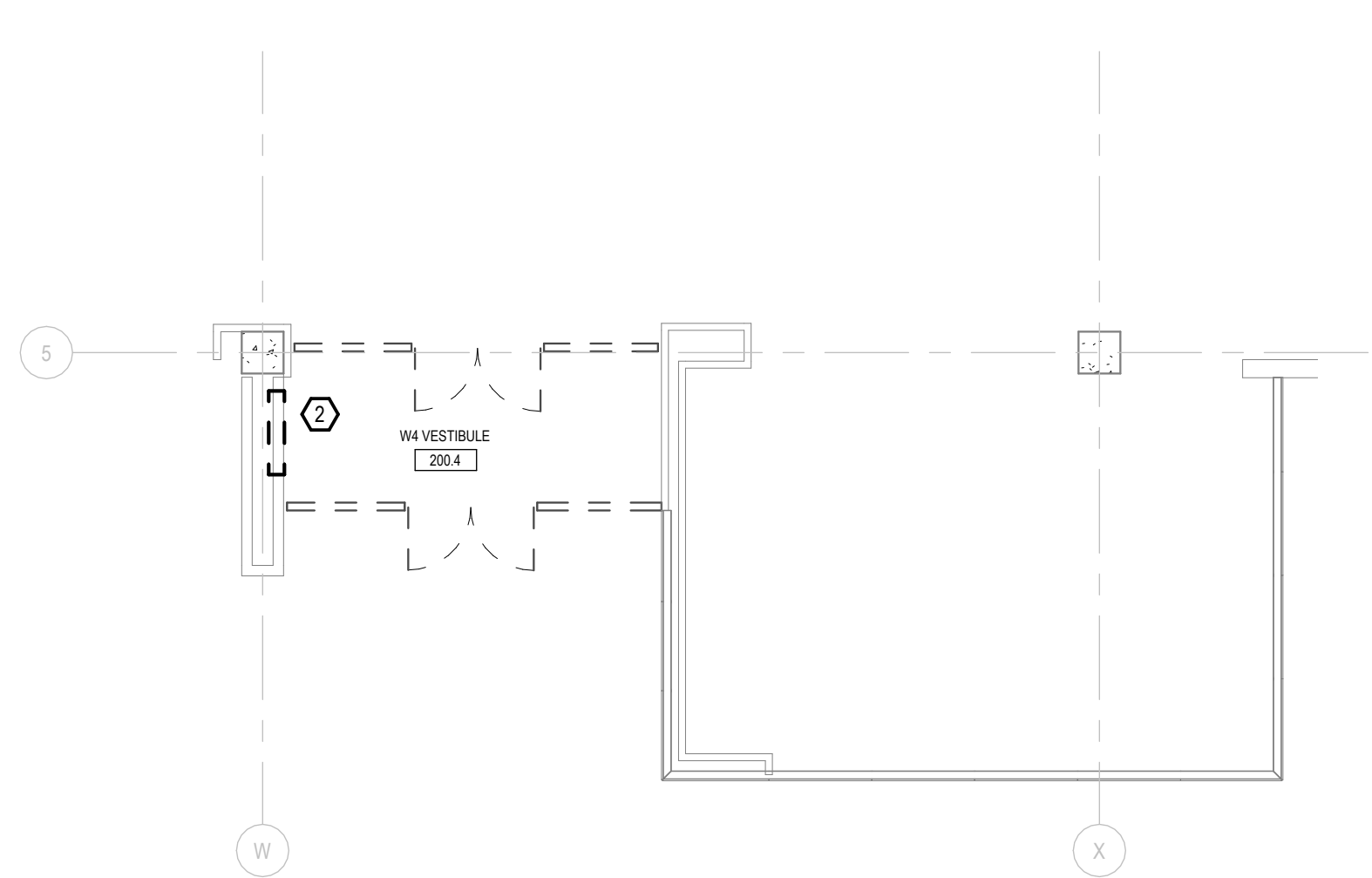
ISSUED	DATE
1. GMP/PERMIT RESPONSE	01/10/2025
2. ADDENDUM #1	01/24/2025
3. ADDENDUM #2	03/10/2025
4. BULLETIN #2	06/09/2025



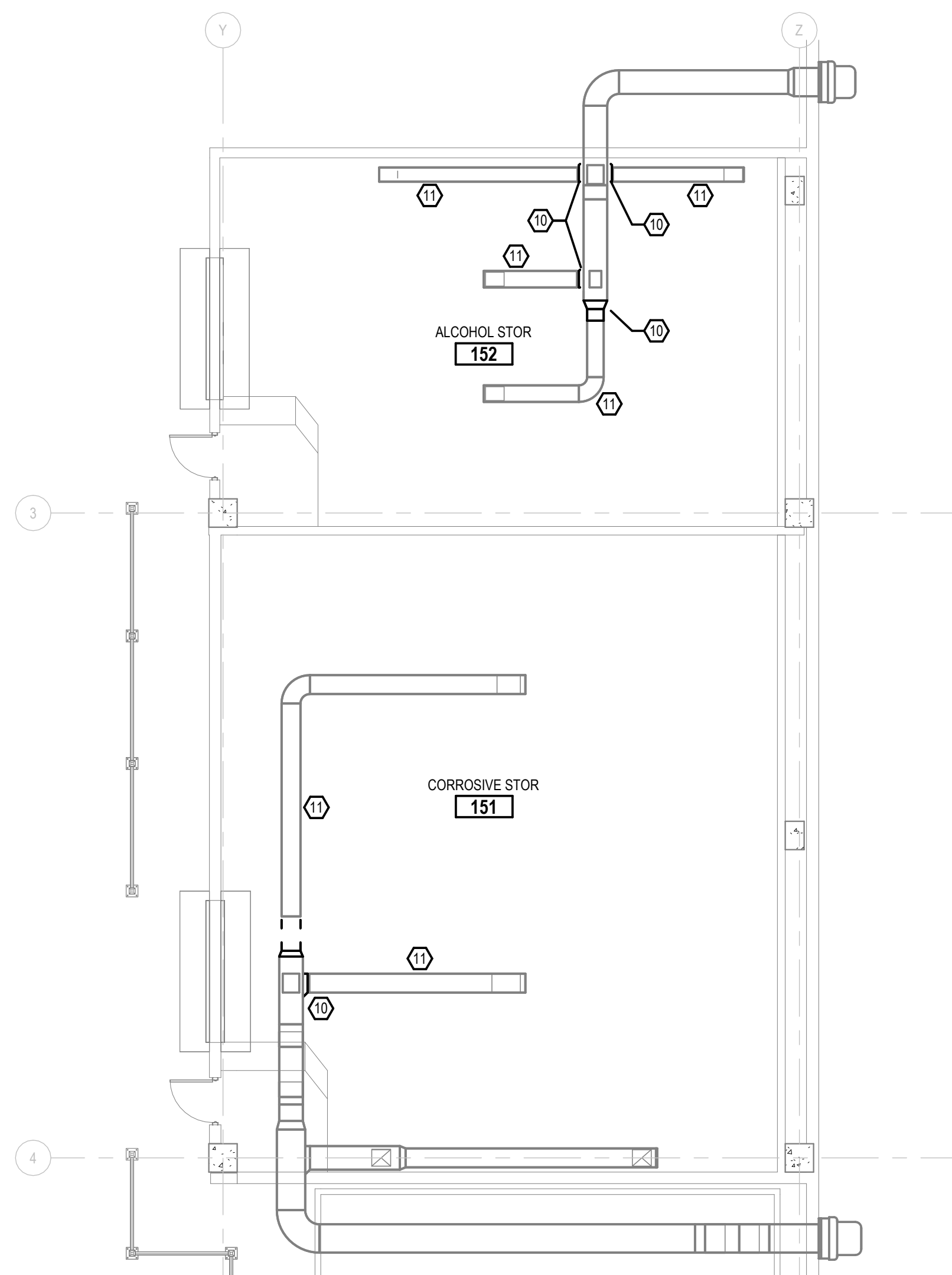
FIRST FLOOR MECHANICAL DEMOLITION PLAN
 1/16" = 1'-0"
 0' 4' 8' 16'



PHASE 1 MECHANICAL DEMOLITION PLAN - W3 VESTIBULE
 1/8" = 1'-0"
 0' 4' 8' 16'

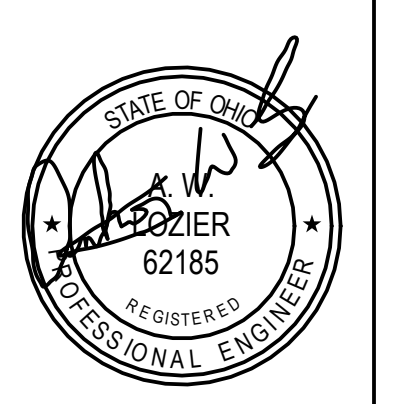
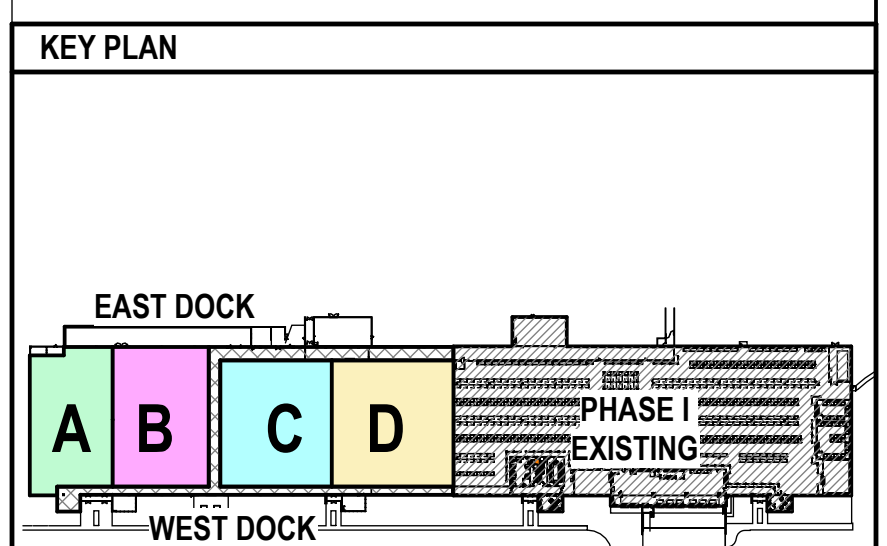


PHASE 1 MECHANICAL DEMOLITION PLAN - W4 VESTIBULE
 1/8" = 1'-0"
 0' 4' 8' 16'

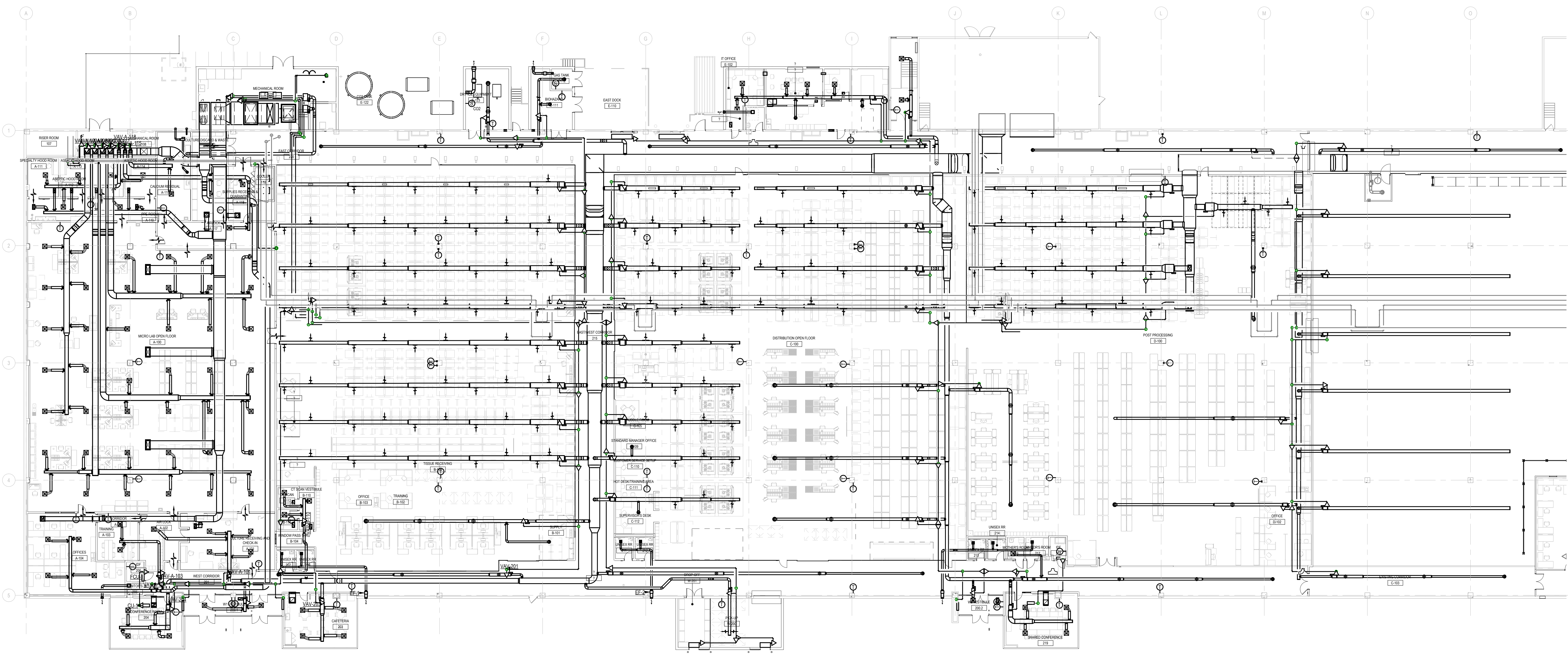


PHASE 1 MECHANICAL DEMOLITION PLAN - HAZARDOUS STORAGE
 1/8" = 1'-0"
 0' 4' 8' 16'

- CODED NOTES:**
- EXISTING AHU-9 TO REMAIN. CONTRACTOR TO VERIFY WORKING CONDITION OF UNIT AND COMPONENTS AND PROVIDE SERVICE AS REQUIRED AND ENSURE UNIT IS FUNCTIONING AS INTENDED.
 - EXISTING RECESSED CABINET UNIT HEATER TO BE DEMOLISHED AND IS TO BE REPLACED WITH NEW UNIT OF EQUAL PERFORMANCE AND SIZE (SEE NEW WORK PLAN). EXISTING PIPING CONNECTIONS TO BE CAPPED TEMPORARILY AND MAINTAINED FOR REUSE.
 - ALL EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK, CONTROLS, HOT WATER PIPING, AIR DEVICES, ETC. IN THIS AREA TO BE DEMOLISHED U.N.O. CONTRACTOR SHALL FIELD VERIFY EXTENTS OF DEMOLITION PRIOR TO WORK.
 - EXISTING UNIT HEATER IN RISER ROOM TO REMAIN AND SHALL STAY FULLY FUNCTIONAL DURING CONSTRUCTION.
 - DEMOLISH DUCTWORK AND AIR DEVICES AS INDICATED.
 - EXISTING VAV BOX AND ASSOCIATED CONTROL COMPONENTS (T-STAT ETC.) 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).
 - EXISTING DUCT MAIN TO BE RAISED TO ALLOW FOR NEW OVERHEAD DOOR INSTALLATION. REFER TO NEW WORK PLAN FOR MORE DETAIL.
 - STOP DEMOLITION AT THIS POINT. PREP DUCTWORK END FOR RECONNECTION. SEE NEW WORK PLAN.
 - STOP DEMOLITION AT THIS POINT. PREP PIPE END FOR RECONNECTION. SEE NEW WORK PLAN.
 - DISCONNECT EXISTING DUCTWORK FROM EXHAUST MAIN AND CAP AT MAIN. RETAIN PORTION OF BRANCH DUCT TO RAISE (SEE NEW WORK).
 - SECTION OF EXISTING DUCTWORK TO BE RAISED. SEE NEW WORK PLAN.



ISSUED	DATE
1 GMP/PERMIT RESPONSE	01/10/2025
2 ADDENDUM #1	01/24/2025
3 ADDENDUM #2	02/10/2025



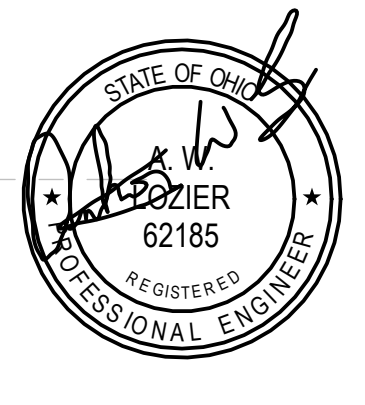
REFER TO ENLARGED SHEETS FOR REVISION CLOUDS

OVERALL PLAN - MECHANICAL

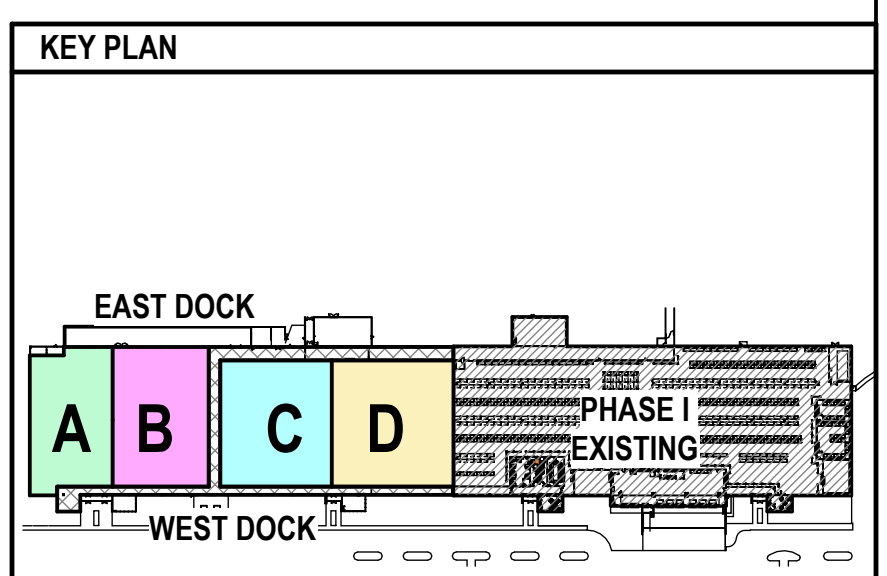
1/16" = 1'-0"

0 8 16 32

1 MH100



ISSUED	DATE
1 GMP/PERMIT RESPONSE	01/10/2025
2 ADDENDUM #1	01/24/2025
3 ADDENDUM #2	03/10/2025
4 BULLETIN #2	06/09/2025



SHEET TITLE

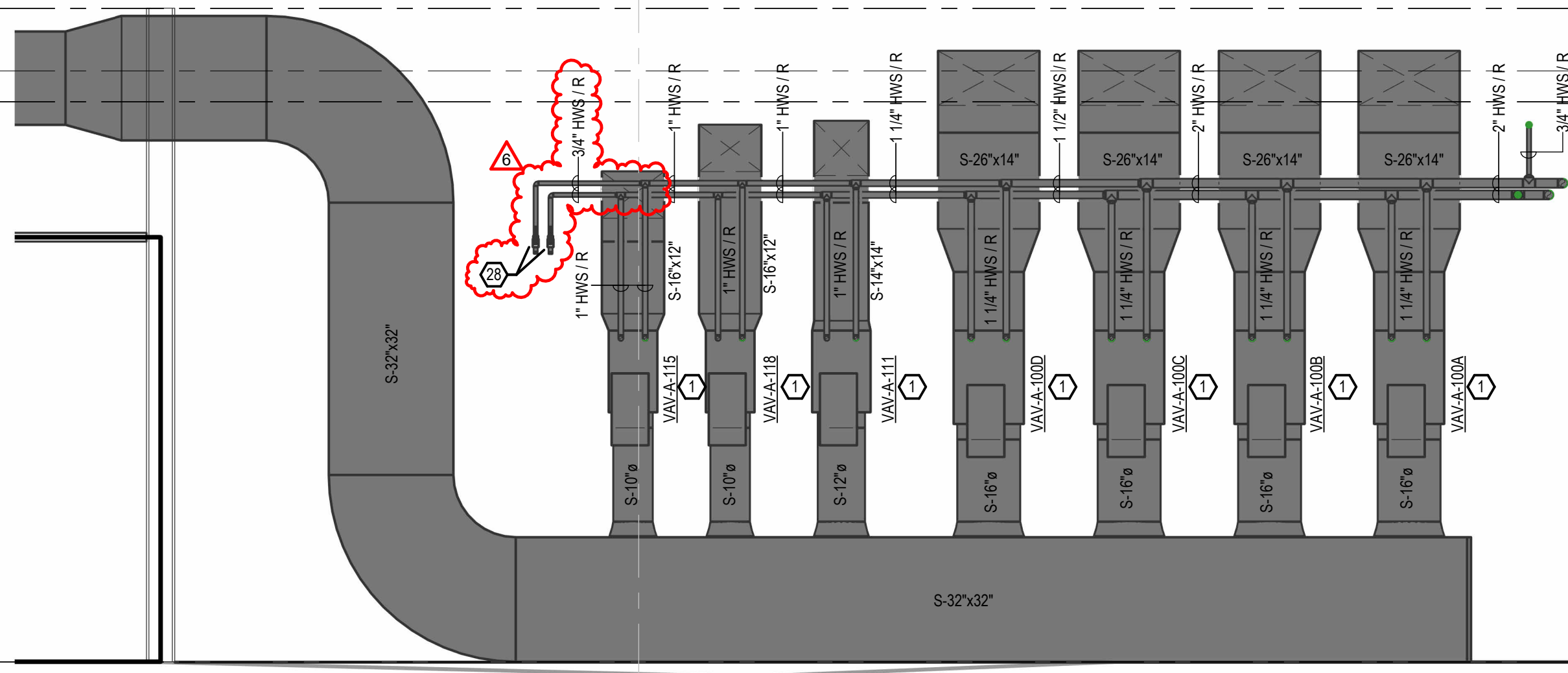
SHEET METAL PLAN - PHASE 2 OVERALL

SCALE	COMM. NO.
1/16" = 1'-0"	E-1007
DRAWN BY	DATE
ELEVAR	01/10/2025
SHEETS	
MH100	

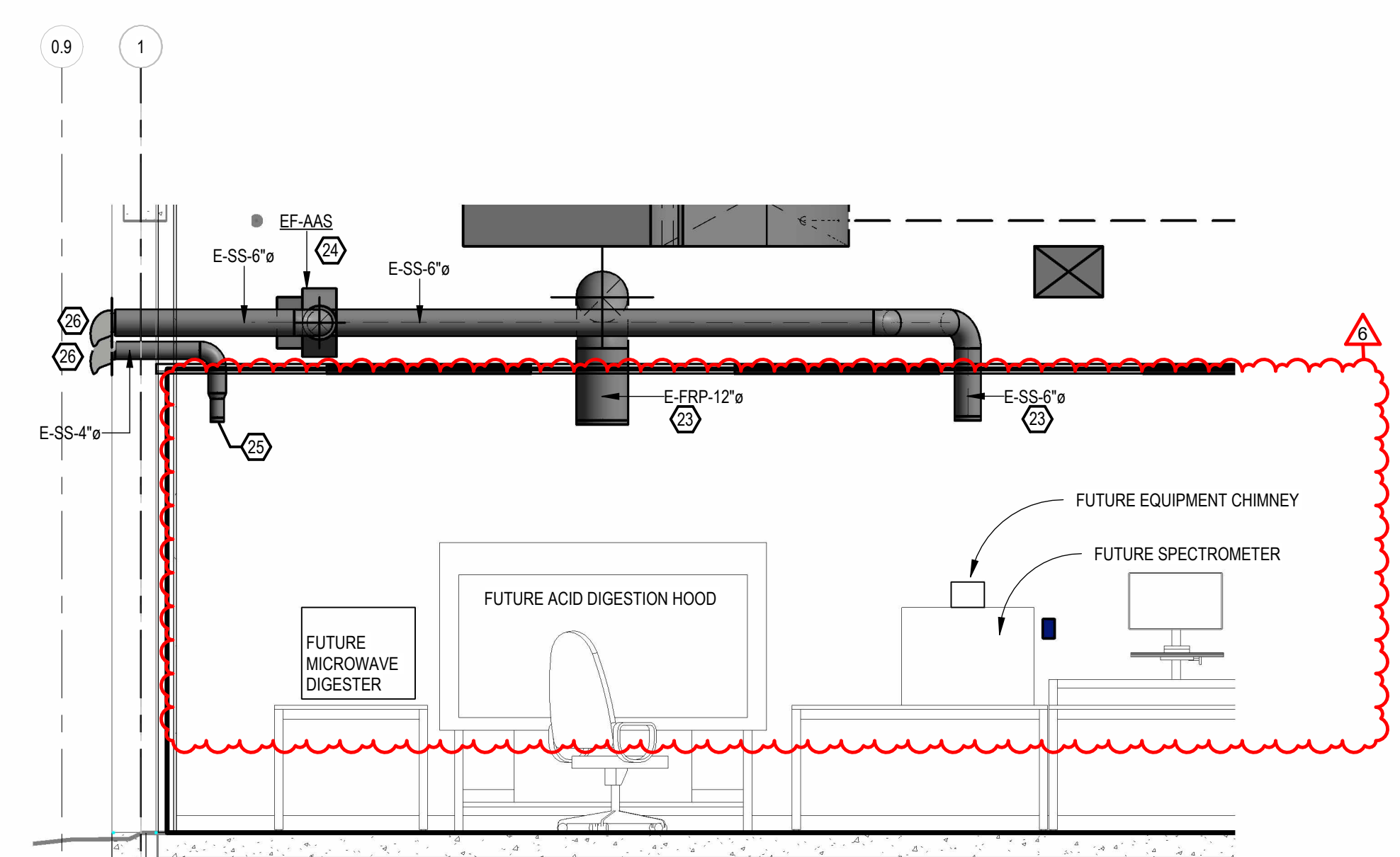
SOLVITA - 950 FORRER BLVD RENOVATION - PHASE 2

950 FORRER BLVD
KETERING, OHIO 45420

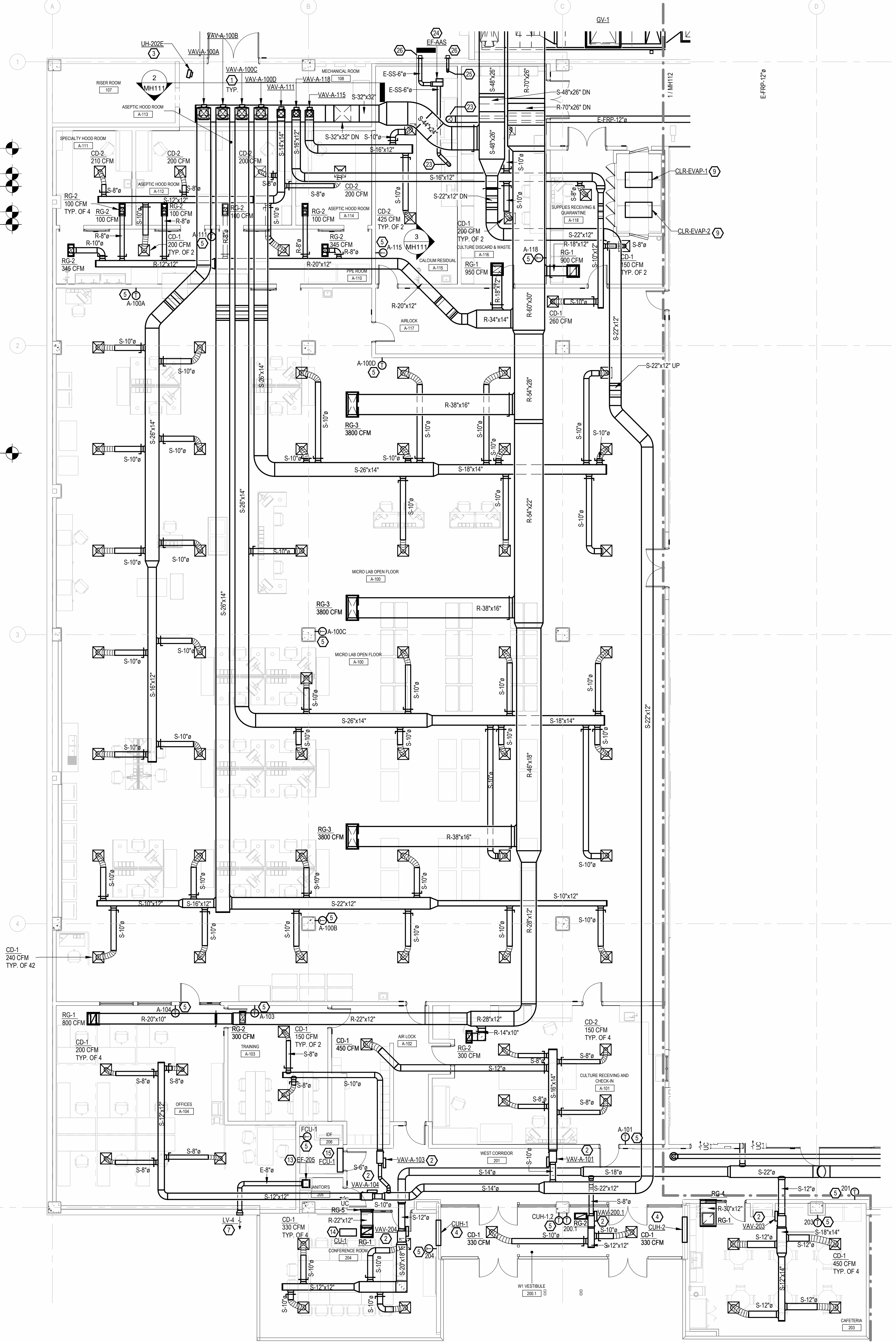
SOLVITA
2900 COLLEGE DRIVE, KETERING, OHIO 45420



MECHANICAL ROOM 108 SECTION VIEW
38' x 11'0"



CALCIUM RESIDUAL A-115 EXHAUST SECTION VIEW
38' x 11'0"

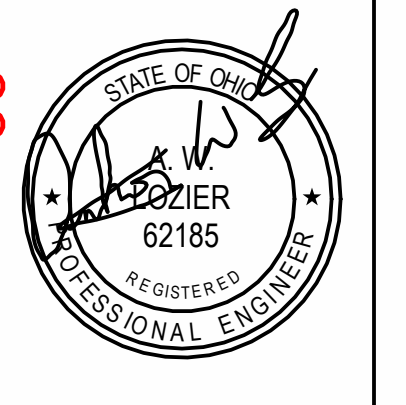
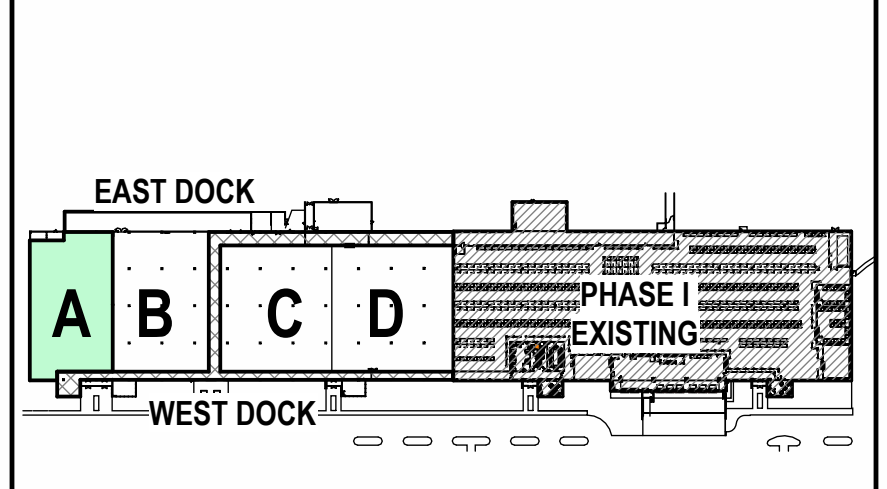


AREA A SHEET METAL PLAN - MICRO LAB
1/8" = 1'-0"

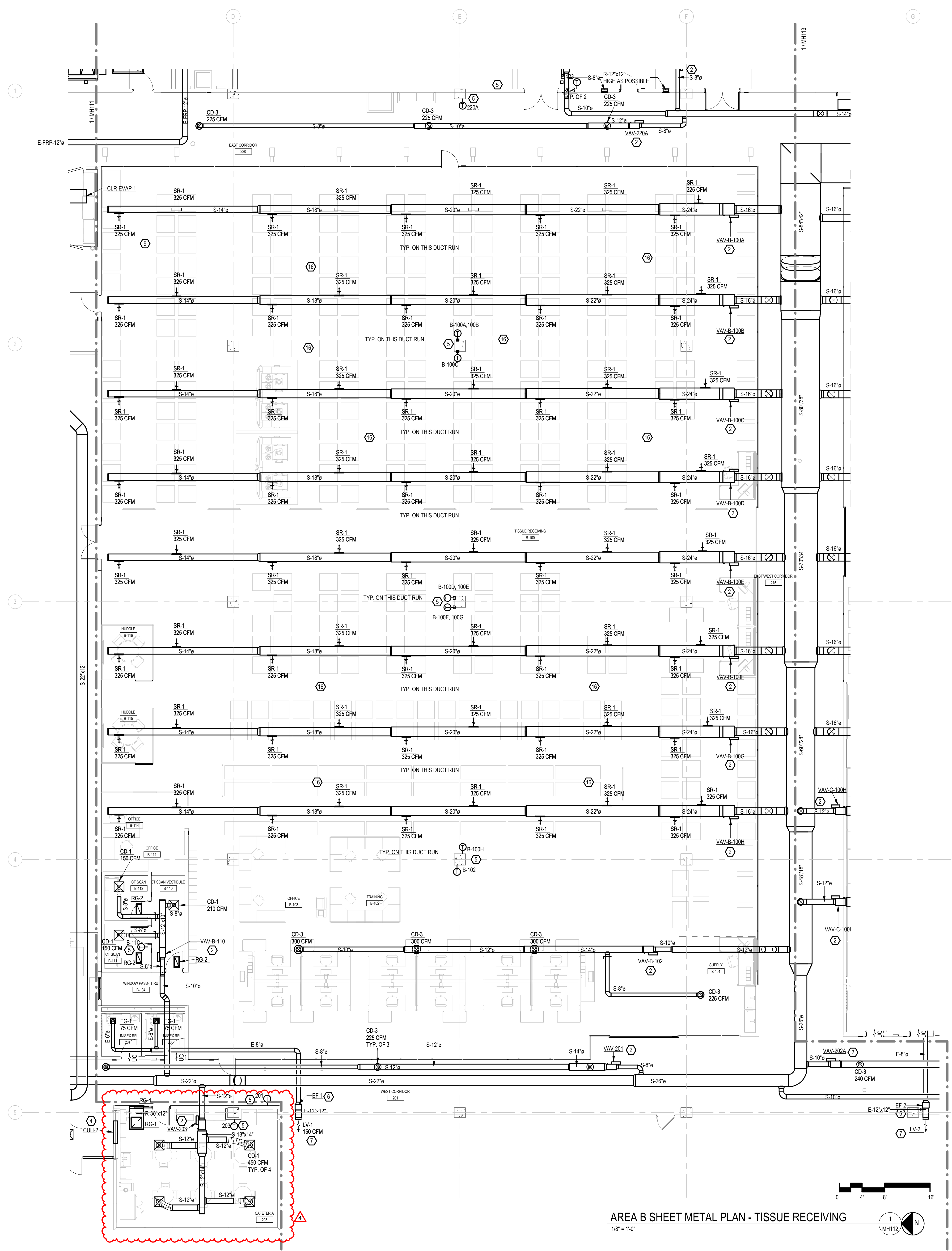
CODED NOTES (NOT ALL MAY APPLY):

- PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM ADJACENT WALL. REFER TO SECTION VIEW FOR MORE DETAIL.
- PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM STRUCTURE ABOVE.
- PROVIDE NEW HOT WATER UNIT HEATER SUSPENDED SECURELY FROM STRUCTURE ABOVE.
- PROVIDE NEW HOT WATER CABINET UNIT HEATER IN PLACE OF EXISTING. CONTRACTOR TO COORDINATE ANY ADDITIONAL FRAMING AND FINISH REQUIREMENTS OF EXISTING OPENING TO ACCOMMODATE NEW CABINET UNIT HEATER SIZE.
- NEW THERMOSTAT MOUNT AT APPROXIMATELY 5'-0" AFF. COORDINATE EXACT LOCATION IN FIELD. IF NOTATED "STACKED" MULTIPLE THERMOSTATS SHALL BE INSTALLED VERTICALLY IN AN ORDERLY FASHION.
- PROVIDE NEW INLINE EXHAUST FAN SUSPENDED FROM STRUCTURE PER MANUFACTURER'S INSTALLATION GUIDELINES. FAN MUST REMAIN ACCESSIBLE FOR SERVICE.
- PROVIDE NEW WALL LOUVER. COORDINATE MOUNTING REQUIREMENTS WITH EXISTING WALL. REFER TO SCHEDULE FOR MORE INFORMATION. THE HVAC CONTRACTOR IS TO PROVIDE A 2 INCH DEEP EXTERNALLY INSULATED SHEET METAL PLenum FOR THE LOUVER THAT IS SEALED WATER-TIGHT AND PITCHED ON THE BOTTOM FOR GRAVITY DRAINAGE BACK THROUGH THE LOUVER.
- PROVIDE NEW HOT WATER HEATED AIR CURTAIN. COORDINATE INSTALLATION LOCATION WITH OVERHEAD DOOR ASSEMBLY AND INSTALL PER MANUFACTURER'S GUIDELINES.
- WALK IN COOLER EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO REFRIGERATION DRAWINGS OR SELECTION FOR INFORMATION. CONTRACTOR TO COORDINATE WITH OTHERS. GC TO PROVIDE EQUIPMENT ROOF SUPPORT CURB PER DETAIL.
- EXISTING VAV TERMINAL UNIT TO BE RELOCATED TO NEW LOCATION AS SHOWN IN DRAWING.
- 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).
- PROVIDE NEW INTERIOR AIR HANDLING UNIT MOUNTED ON 6" HOUSEKEEPING PAD (SEE DETAIL). REFER TO SCHEDULE AND DETAILS FOR MORE INFORMATION.
- PROVIDE CEILING MOUNTED EXHAUST FAN. FAN TO RUN CONTINUOUSLY.
- NEW AIR-COOLED CONDENSING UNIT LOCATED ON ROOF. INSTALL AT APPROXIMATE LOCATION AS SHOWN. THE CONDENSING UNIT IS TO BE INSTALLED ON EQUIPMENT SUPPORT CURBS (SEE DETAIL). THE UNIT IS TO BE RIGIDLY SECURED TO THE SUPPORT CURBS WHICH ARE TO BE RIGIDLY SECURED TO THE ROOF STRUCTURE. REFER TO MANUFACTURER'S MANUALS FOR ADDITIONAL REQUIREMENTS.
- MOUNT NEW WALL MOUNTED FAN COIL UNIT ABOVE DOOR. INSTALL ALL REFRIGERANT PIPING PER MANUFACTURER'S GUIDELINES. ROUTE CONDENSATE PIPING TO NEARBY MOP SINK AND INDIRECTLY DISCHARGE.
- SUPPLY DRUM LOUVER TO BE ROTATED ON DUCT AT 45° TOWARD THE FLOOR. TYPICAL IN FREEZER/COOLER AREAS.
- PROVIDE 1"x1" WIRE MESH SCREEN OVER RETURN DUCT OPENING.
- CONNECT CWS/R PIPING TO AHU COIL AS REQUIRED. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
- CONNECT HWS/R PIPING TO COIL AS REQUIRED. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
- PROVIDE DUCT MOUNTED SMOKE DETECTOR AND TIE INTO FIRE ALARM SYSTEM.
- EXISTING THERMOSTAT TO BE RELOCATED TO THIS LOCATION. MOUNT AT APPROXIMATELY 5'-0" AFF. COORDINATE EXACT LOCATION IN FIELD. IF NOTATED "STACKED" MULTIPLE THERMOSTATS SHALL BE INSTALLED VERTICALLY IN AN ORDERLY FASHION.
- PROVIDE COIL RUMOROUND INLINE PUMP FOR FREEZE PROTECTION. REFER TO DETAILS AND SCHEDULE FOR MORE INFORMATION.
- STUB EXHAUST DUCT DOWN THROUGH CEILING IN THE APPROXIMATE LOCATION OF FUTURE LAB EQUIPMENT AND CAP AS REQUIRED FOR FUTURE CONNECTION.
- STUB EXHAUST DUCT DOWN THROUGH CEILING IN THE APPROXIMATE LOCATION OF FUTURE LAB EQUIPMENT. REDUCE TO 2-1/2" CONNECTION, AND CAP AS REQUIRED FOR FUTURE CONNECTION.
- PROVIDE STAINLESS STEEL EXHAUST WALL VENT CAP WITH BACKDRAFT DAMPER.
- PROVIDE NEW FIBERGLASS CENTRIFUGAL EXHAUST FAN LOCATED ON ROOF (REFER TO DETAIL). INSTALL AT APPROXIMATE LOCATION AS SHOWN AND MAINTAIN 10' FROM THE EDGE OF ROOF. THE EXHAUST FAN IS TO BE INSTALLED ON EQUIPMENT SUPPORT CURBS (SEE DETAIL). THE UNIT IS TO BE RIGIDLY SECURED TO THE SUPPORT CURBS WHICH ARE TO BE RIGIDLY SECURED TO THE ROOF STRUCTURE. REFER TO MANUFACTURER'S MANUALS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE NEW BALL VALVE WITH CAP AND HOSE CONNECTION FOR DRAINING PURPOSES.

KEY PLAN



ISSUED	DATE
1 GMP/PERMIT RESPONSE	01/10/2023
2 ADDENDUM #1	01/24/2023
3 ADDENDUM #2	02/10/2023
4 BULLETIN #1	04/04/2023
5 BULLETIN #2	06/09/2023
6 BULLETIN #3	07/18/2023

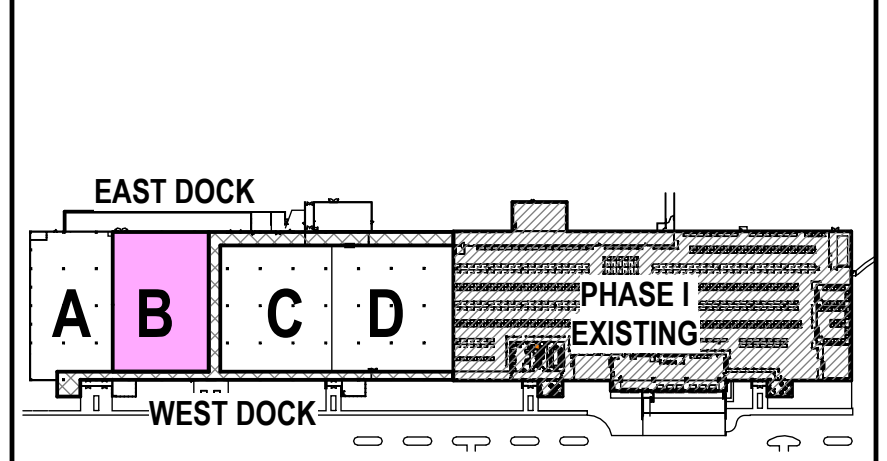


AREA B SHEET METAL PLAN - TISSUE RECEIVING
1/8" = 1'-0"

CODED NOTES (NOT ALL MAY APPLY):

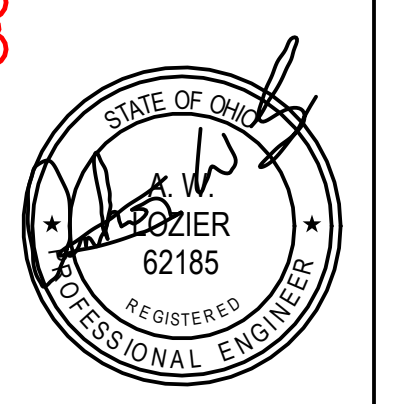
- PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM ADJACENT WALL. REFER TO SECTION VIEW FOR MORE DETAIL.
- PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM STRUCTURE ABOVE.
- PROVIDE NEW HOT WATER UNIT HEATER SUSPENDED SECURELY FROM STRUCTURE ABOVE.
- PROVIDE NEW HOT WATER CABINET UNIT HEATER IN PLACE OF EXISTING. CONTRACTOR TO COORDINATE ANY ADDITIONAL FRAMING AND FINISH REQUIREMENTS OF EXISTING OPENING TO ACCOMMODATE NEW CABINET UNIT HEATER SIZE.
- NEW THERMOSTAT MOUNT AT APPROXIMATELY 5'-0" AFF. COORDINATE EXACT LOCATION IN FIELD. IF NOTATED "STACKED" MULTIPLE THERMOSTATS SHALL BE INSTALLED VERTICALLY IN AN ORDERLY FASHION.
- PROVIDE NEW INLINE EXHAUST FAN SUSPENDED FROM STRUCTURE PER MANUFACTURER'S INSTALLATION GUIDELINES. FAN MUST REMAIN ACCESSIBLE FOR SERVICE.
- PROVIDE NEW WALL LOUVER. COORDINATE MOUNTING REQUIREMENTS WITH EXISTING WALL. REFER TO SCHEDULE FOR MORE INFORMATION. THE HVAC CONTRACTOR IS TO PROVIDE A 2 INCH DEEP EXTERNALLY INSULATED SHEET METAL PLENUM FOR THE LOUVER THAT IS SEALED WATER-TIGHT AND PITCHED ON THE BOTTOM FOR GRAVITY DRAINAGE BACK THROUGH THE LOUVER.
- PROVIDE NEW HOT WATER HEATED AIR CURTAIN. COORDINATE INSTALLATION LOCATION WITH OVERHEAD DOOR ASSEMBLY AND INSTALL PER MANUFACTURER'S GUIDELINES.
- WALK IN COOLER EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO REFRIGERATION DRAWINGS OR SECTION FOR MORE INFORMATION. **INSTALL AND PROVIDE BY OTHERS (GC TO PROVIDE EQUIPMENT, ROOF SUPPORT CURBS PER DETAIL)**
- EXISTING VAV TERMINAL UNIT TO BE RELOCATED TO NEW LOCATION AS SHOWN IN DRAWING.
- 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).
- PROVIDE NEW INTERIOR AIR HANDLING UNIT MOUNTED ON 6" HOUSEKEEPING PAD (SEE DETAIL). REFER TO SCHEDULE AND DETAILS FOR MORE INFORMATION.
- PROVIDE CEILING MOUNTED EXHAUST FAN. FAN TO RUN CONTINUOUSLY.
- NEW AIR-COOLED CONDENSING UNIT LOCATED ON ROOF. INSTALL AT APPROXIMATE LOCATION AS SHOWN. THE CONDENSING UNIT IS TO BE INSTALLED ON EQUIPMENT SUPPORT CURBS (SEE DETAIL). THE UNIT IS TO BE RIGIDLY SECURED TO THE SUPPORT CURBS WHICH ARE TO BE RIGIDLY SECURED TO THE ROOF STRUCTURE. REFER TO MANUFACTURER'S MANUALS FOR ADDITIONAL REQUIREMENTS.
- MOUNT NEW WALL MOUNTED FAN COIL UNIT ABOVE DOOR. INSTALL ALL REFRIGERANT PIPING PER MANUFACTURER'S GUIDELINES. ROUTE CONDENSATE PIPING TO NEARBY MOP SINK AND INDIRECTLY DISCHARGE.
- SUPPLY DRUM LOUVER TO BE ROTATED ON DUCT AT 45° TOWARD THE FLOOR. TYPICAL IN FREEZER/COOLER AREAS.
- PROVIDE 1"x1" WIRE MESH SCREEN OVER RETURN DUCT OPENING.
- CONNECT CWS/R PIPING TO AHU COIL AS REQUIRED. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
- CONNECT HWS/R PIPING TO COIL AS REQUIRED. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
- PROVIDE DUCT MOUNTED SMOKE DETECTOR AND TIE INTO FIRE ALARM SYSTEM.
- EXISTING THERMOSTAT TO BE RELOCATED TO THIS LOCATION. MOUNT AT APPROXIMATELY 5'-0" AFF. COORDINATE EXACT LOCATION IN FIELD. IF NOTATED "STACKED" MULTIPLE THERMOSTATS SHALL BE INSTALLED VERTICALLY IN AN ORDERLY FASHION.
- PROVIDE COIL RUNAROUND INLINE PUMP FOR FREEZE PROTECTION. REFER TO DETAILS AND SCHEDULE FOR MORE INFORMATION.
- EXTEND EXHAUST DUCT DOWN TO LAB EQUIPMENT AND CONNECT AS REQUIRED PER MANUFACTURER'S GUIDELINES.
- PROVIDE NEW CENTRIFUGAL EXHAUST FAN BELOW ROOF SUPPORTED FROM STRUCTURE AS REQUIRED AND EXTEND DISCHARGE DUCTWORK OUT EXTERIOR WALL. INTERLOCK FAN OPERATION WITH SWITCH ON WALL NEAR SPECTROMETER. REFER TO ELECTRICAL DRAWINGS. FAN SHALL BE PROVIDED BY THE MANUFACTURER OF THE SPECTROMETER AS A FACTORY OPTION.
- EXTEND EXHAUST DUCT DOWN TO LAB EQUIPMENT AND CONNECT AS REQUIRED PER MANUFACTURER'S GUIDELINES. EQUIPMENT COMES INTEGRAL WITH EXHAUST FAN AND HOSE. REDUCE TO 2-1/2" CONNECTION AND CONNECT HOSE TO EXHAUST STUB THROUGH CEILING.
- PROVIDE STAINLESS STEEL EXHAUST WALL VENT CAP WITH BACKDRAFT DAMPER.
- PROVIDE NEW FIBERGLASS CENTRIFUGAL EXHAUST FAN LOCATED ON ROOF (REFER TO DETAIL). INSTALL AT APPROXIMATE LOCATION AS SHOWN AND MAINTAIN 10' FROM THE EDGE OF ROOF. THE EXHAUST FAN IS TO BE RIGIDLY SECURED TO THE SUPPORT CURBS (SEE DETAIL). THE UNIT IS TO BE RIGIDLY SECURED TO THE ROOF STRUCTURE. REFER TO MANUFACTURER'S MANUALS FOR ADDITIONAL REQUIREMENTS.

KEY PLAN



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

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



ISSUED	DATE
1 GMP/PERMIT RESPONSE	01/10/2025
2 ADDENDUM #1	01/24/2025
3 ADDENDUM #2	03/10/2025
4 BULLETIN #2	06/09/2025

SHEET TITLE
ENLARGED SHEET
METAL PLAN -
AREA B

SCALE
1/8" = 1'-0"

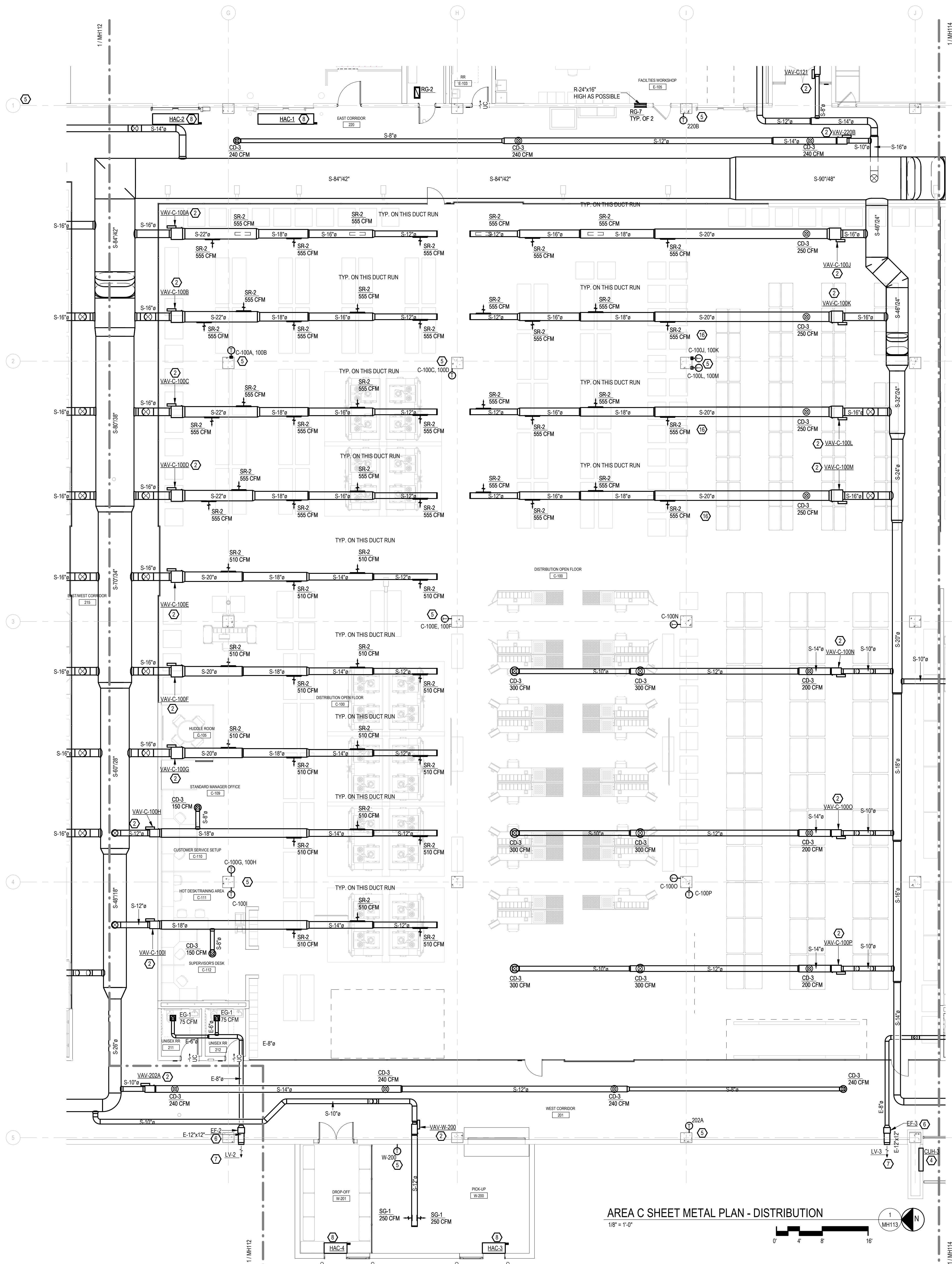
DRAWN BY
ELEVATOR

DATE
01/10/2025

COMD No.
E-1687

DATE
01/10/2025

SHEET NO.
MH112



AREA C SHEET METAL PLAN - DISTRIBUTION

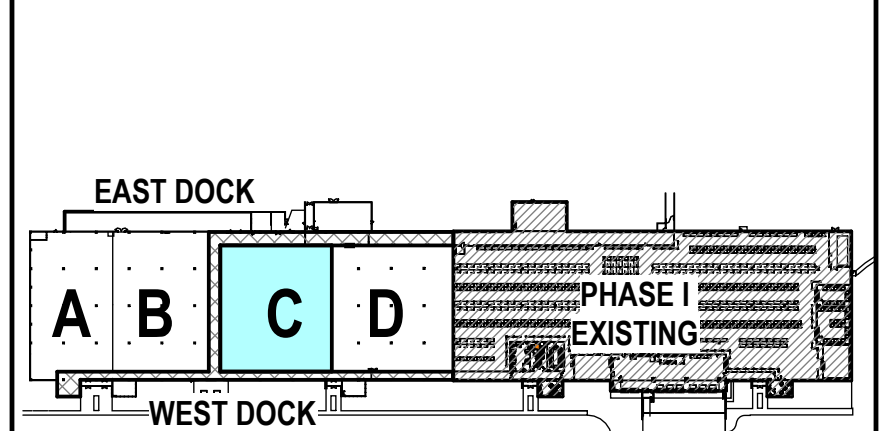
1/8" = 1'-0"



CODED NOTES (NOT ALL MAY APPLY):

1. PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM ADJACENT WALL. REFER TO SECTION VIEW FOR MORE DETAIL.
2. PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM STRUCTURE ABOVE.
3. PROVIDE NEW HOT WATER HEATER SUSPENDED SECURELY FROM STRUCTURE ABOVE.
4. PROVIDE NEW HOT WATER CABINET UNIT HEATER IN PLACE OF EXISTING. CONTRACTOR TO COORDINATE ANY ADDITIONAL FRAMING AND FINISH REQUIREMENTS OF EXISTING OPENING TO ACCOMMODATE NEW CABINET UNIT HEATER SIZE.
5. NEW THERMOSTAT MOUNT AT APPROXIMATELY 5'-0" AFF. COORDINATE EXACT LOCATION IN FIELD. IF NOTATED "STACKED" MULTIPLE THERMOSTATS SHALL BE INSTALLED VERTICALLY IN AN ORDERLY FASHION.
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. THE HVAC CONTRACTOR IS TO PROVIDE A 2 INCH DEEP EXTERNALLY INSULATED SHEET METAL PLenum FOR THE LOUVER THAT IS SEALED WATER-TIGHT AND PITCHED ON THE BOTTOM FOR GRAVITY DRAINAGE BACK THROUGH THE LOUVER.
8. PROVIDE NEW HOT WATER HEATED AIR CURTAIN. COORDINATE INSTALLATION LOCATION WITH OVERHEAD DOOR ASSEMBLY AND INSTALL PER MANUFACTURER'S GUIDELINES.
9. WALK IN COOLER EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO REFRIGERATION DRAWINGS OR SECTION 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 INTERIOR AIR HANDLING UNIT MOUNTED ON 6" HOUSEKEEPING PAD (SEE DETAIL). REFER TO SCHEDULE AND DETAILS FOR MORE INFORMATION.
13. PROVIDE CEILING MOUNTED EXHAUST FAN. FAN TO RUN CONTINUOUSLY.
14. NEW AIR-COOLED CONDENSING UNIT LOCATED ON ROOFS. INSTALL AT APPROXIMATE LOCATION AS SHOWN. THE CONDENSING UNIT IS TO BE INSTALLED ON EQUIPMENT SUPPORT CURBS (SEE DETAIL). THE UNIT IS TO BE RIGIDLY SECURED TO THE SUPPORT CURBS WHICH ARE TO BE RIGIDLY SECURED TO THE ROOF STRUCTURE. REFER TO MANUFACTURER'S MANUALS FOR ADDITIONAL REQUIREMENTS.
15. MOUNT NEW WALL MOUNTED FAN COIL UNIT ABOVE DOOR. INSTALL ALL REFRIGERANT PIPING PER MANUFACTURER'S GUIDELINES. ROUTE CONDENSATE PIPING TO NEARBY MOP SINK AND INDIRECTLY DISCHARGE FLOOR. TYPICAL IN FREEZER/COOLER AREAS.
16. SUPPLY DRUM LOUVER TO BE ROTATED ON DUCT AT 45° TOWARD THE FLOOR. TYPICAL IN FREEZER/COOLER AREAS.
17. PROVIDE 1"x1" WIRE MESH SCREEN OVER RETURN DUCT OPENING.
18. CONNECT CWS/R PIPING TO AHU COIL AS REQUIRED. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
19. CONNECT HWS/R PIPING TO COIL AS REQUIRED. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
20. PROVIDE DUCT MOUNTED SMOKE DETECTOR AND TIE INTO FIRE ALARM SYSTEM.
21. EXISTING THERMOSTAT TO BE RELOCATED TO THIS LOCATION. MOUNT AT APPROXIMATELY 5'-0" AFF. COORDINATE EXACT LOCATION IN FIELD. IF NOTATED "STACKED" MULTIPLE THERMOSTATS SHALL BE INSTALLED VERTICALLY IN AN ORDERLY FASHION.
22. PROVIDE COIL RUNAROUND INLINE PUMP FOR FREEZE PROTECTION. REFER TO DETAILS AND SCHEDULE FOR MORE INFORMATION.
23. EXTEND EXHAUST DUCT DOWN TO LAB EQUIPMENT AND CONNECT AS REQUIRED PER MANUFACTURER'S GUIDELINES.

KEY PLAN

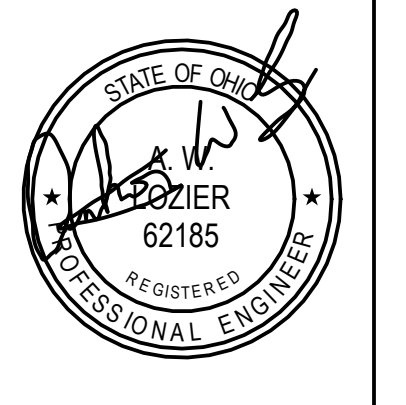


elevator
DESIGN GROUP
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CINCINNATI, OH 45203
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Solita
DESIGN GROUP
349 SOUTH MAIN STREET
DAYTON, OH 45402-2715
P: (937) 461-3220

SOLVITA - 950 FORRER BLVD RENOVATION - PHASE 2

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



ISSUED	DATE
1 GMP/PERMIT RESPONSE	01/10/2025
2 ADDENDUM #1	01/24/2025
3 ADDENDUM #2	02/10/2025

SHEET TITLE
ENLARGED SHEET METAL PLAN - AREA C

SCALE
1/8" = 1'-0"

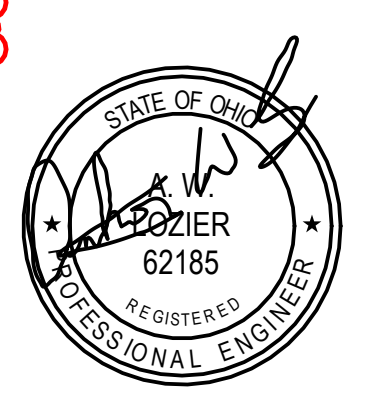
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DATE
01/10/2025

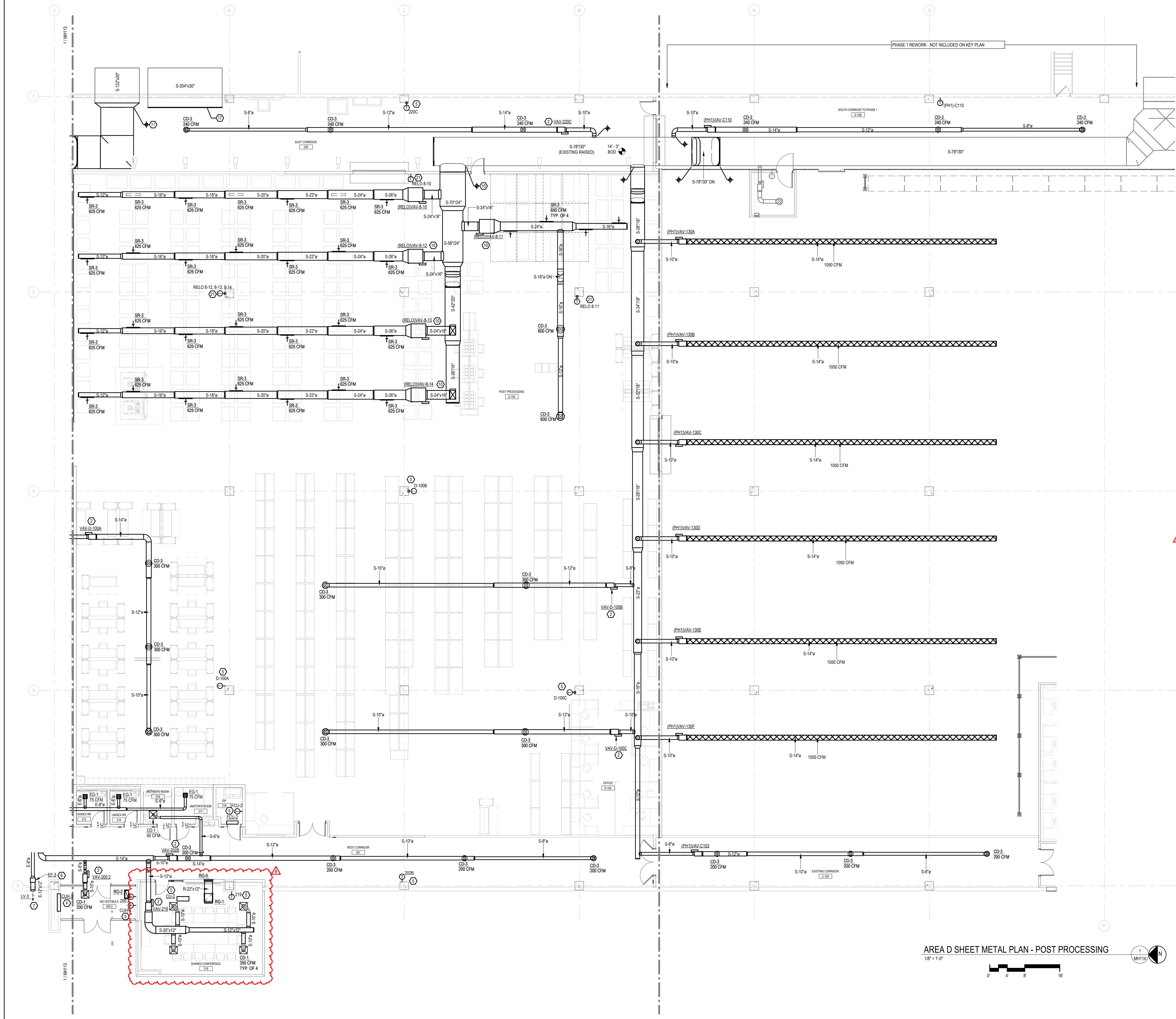
SHEET NO.
MH113

CODED NOTES (NOT ALL MAY APPLY):

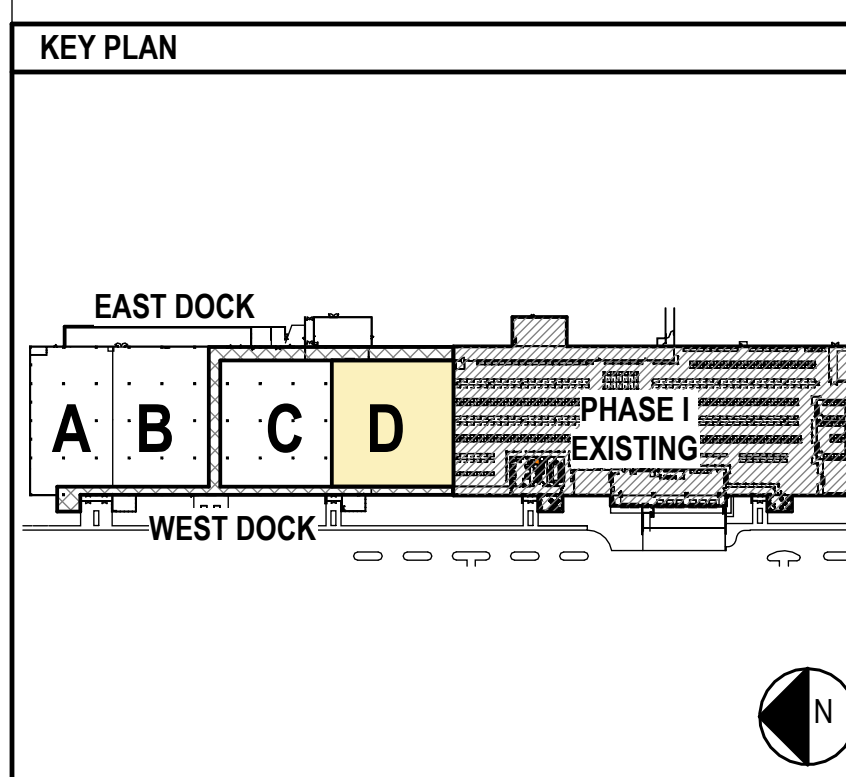
1. PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM ADJACENT WALL. REFER TO SECTION VIEW FOR MORE DETAIL.
2. PROVIDE NEW VAV TERMINAL UNIT WITH HOT WATER REHEAT COIL SUSPENDED SECURELY FROM STRUCTURE ABOVE.
3. PROVIDE NEW HOT WATER UNIT HEATER SUSPENDED SECURELY FROM STRUCTURE ABOVE.
4. PROVIDE NEW HOT WATER CABINET UNIT HEATER IN PLACE OF EXISTING. CONTRACTOR TO COORDINATE ANY ADDITIONAL FRAMING AND FINISH REQUIREMENTS OF EXISTING OPENING TO ACCOMMODATE NEW CABINET UNIT HEATER SIZE.
5. NEW THERMOSTAT MOUNT AT APPROXIMATELY 5'-0" AFF. COORDINATE EXACT LOCATION IN FIELD. IF NOTATED "STACKED" MULTIPLE THERMOSTATS SHALL BE INSTALLED VERTICALLY IN AN ORDERLY FASHION.
6. PROVIDE NEW INLINE EXHAUST FAN SUSPENDED FROM STRUCTURE PER MANUFACTURER'S INSTALLATION GUIDELINES. FAN MUST REMAIN ACCESSIBLE FOR SERVICE.
7. PROVIDE NEW WALL LOUVER. COORDINATE MOUNTING REQUIREMENTS WITH EXISTING WALL. REFER TO SCHEDULE FOR MORE INFORMATION. THE HVAC CONTRACTOR IS TO PROVIDE A 2-INCH DEEP EXTERNALLY INSULATED SHEET METAL PLENUM FOR THE LOUVER THAT IS SEALED WATER-TIGHT AND PITCHED ON THE BOTTOM FOR GRAVITY DRAINAGE BACK THROUGH THE LOUVER.
8. PROVIDE NEW HOT WATER HEATED AIR CURTAIN. COORDINATE INSTALLATION LOCATION WITH OVERHEAD DOOR ASSEMBLY AND INSTALL PER MANUFACTURER'S GUIDELINES.
9. WALK IN COOLER EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO REFRIGERATION DRAWINGS OR SECTION DRAWINGS FOR MORE INFORMATION. **INSTALL AND PROVIDE BY OTHERS (GC TO PROVIDE EQUIPMENT ROOF SUPPORT CURBS PER DETAIL)**
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 INTERIOR AIR HANDLING UNIT MOUNTED ON 6" HOUSEKEEPING PAD (SEE DETAIL). REFER TO SCHEDULE AND DETAILS FOR MORE INFORMATION.
13. PROVIDE CEILING MOUNTED EXHAUST FAN. FAN TO RUN CONTINUOUSLY.
14. NEW AIR-COOLED CONDENSING UNIT LOCATED ON ROOF. INSTALL AT APPROXIMATE LOCATION AS SHOWN. THE CONDENSING UNIT IS TO BE INSTALLED ON EQUIPMENT SUPPORT CURBS (SEE DETAIL). THE UNIT IS TO BE RIGIDLY SECURED TO THE SUPPORT CURBS WHICH ARE TO BE RIGIDLY SECURED TO THE ROOF STRUCTURE. REFER TO MANUFACTURER'S MANUALS FOR ADDITIONAL REQUIREMENTS.
15. MOUNT NEW WALL MOUNTED FAN COIL UNIT ABOVE DOOR. INSTALL ALL REFRIGERANT PIPING PER MANUFACTURER'S GUIDELINES. ROUTE CONDENSATE PIPING TO NEARBY MOP SINK AND INDIRECTLY DISCHARGE.
16. SUPPLY DRUM LOUVER TO BE ROTATED ON DUCT AT 45° TOWARD THE FLOOR. TYPICAL IN FREEZER/COOLER AREAS.
17. PROVIDE 1"x1" WIRE MESH SCREEN OVER RETURN DUCT OPENING.
18. CONNECT CWS/R PIPING TO AHU COIL AS REQUIRED. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
19. CONNECT HWS/R PIPING TO COIL AS REQUIRED. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
20. PROVIDE DUCT MOUNTED SMOKE DETECTOR AND TIE INTO FIRE ALARM SYSTEM.
21. EXISTING THERMOSTAT TO BE RELOCATED TO THIS LOCATION. MOUNT AT APPROXIMATELY 5'-0" AFF. COORDINATE EXACT LOCATION IN FIELD. IF NOTATED "STACKED" MULTIPLE THERMOSTATS SHALL BE INSTALLED VERTICALLY IN AN ORDERLY FASHION.
22. PROVIDE COIL SURROUND INLINE PUMP FOR FREEZE PROTECTION. REFER TO DETAILS AND SCHEDULE FOR MORE INFORMATION.
23. EXTEND EXHAUST DUCT DOWN TO LAB EQUIPMENT AND CONNECT AS REQUIRED PER MANUFACTURER'S GUIDELINES.
24. PROVIDE NEW CENTRIFUGAL EXHAUST FAN BELOW ROOF SUPPORTED FROM STRUCTURE AS REQUIRED AND EXTEND DISCHARGE DUCTWORK OUT EXTERIOR WALL. INTERLOCK FAN OPERATION WITH SWITCH ON WALL NEAR SPECTROMETER. REFER TO ELECTRICAL DRAWINGS. FAN SHALL BE PROVIDED BY THE MANUFACTURER OF THE SPECTROMETER AS A FACTORY OPTION.
25. EXTEND EXHAUST DUCT DOWN TO LAB EQUIPMENT AND CONNECT AS REQUIRED PER MANUFACTURER'S GUIDELINES. EQUIPMENT COMES INTEGRAL WITH EXHAUST FAN AND HOSE. REDUCE TO 2-1/2" CONNECTION AND CONNECT HOSE TO EXHAUST STUB THROUGH CEILING.
26. PROVIDE STAINLESS STEEL EXHAUST WALL VENT CAP WITH BACKDRAFT DAMPER.
27. PROVIDE NEW FIBERGLASS CENTRIFUGAL EXHAUST FAN LOCATED ON ROOF (REFER TO DETAIL). INSTALL AT APPROXIMATE LOCATION AS SHOWN AND MAINTAIN 10" FROM THE EDGE OF ROOF. THE EXHAUST FAN IS TO BE RIGIDLY SECURED TO THE SUPPORT CURBS (SEE DETAIL). THE UNIT IS TO BE RIGIDLY SECURED TO THE ROOF STRUCTURE. REFER TO MANUFACTURER'S MANUALS FOR ADDITIONAL REQUIREMENTS.

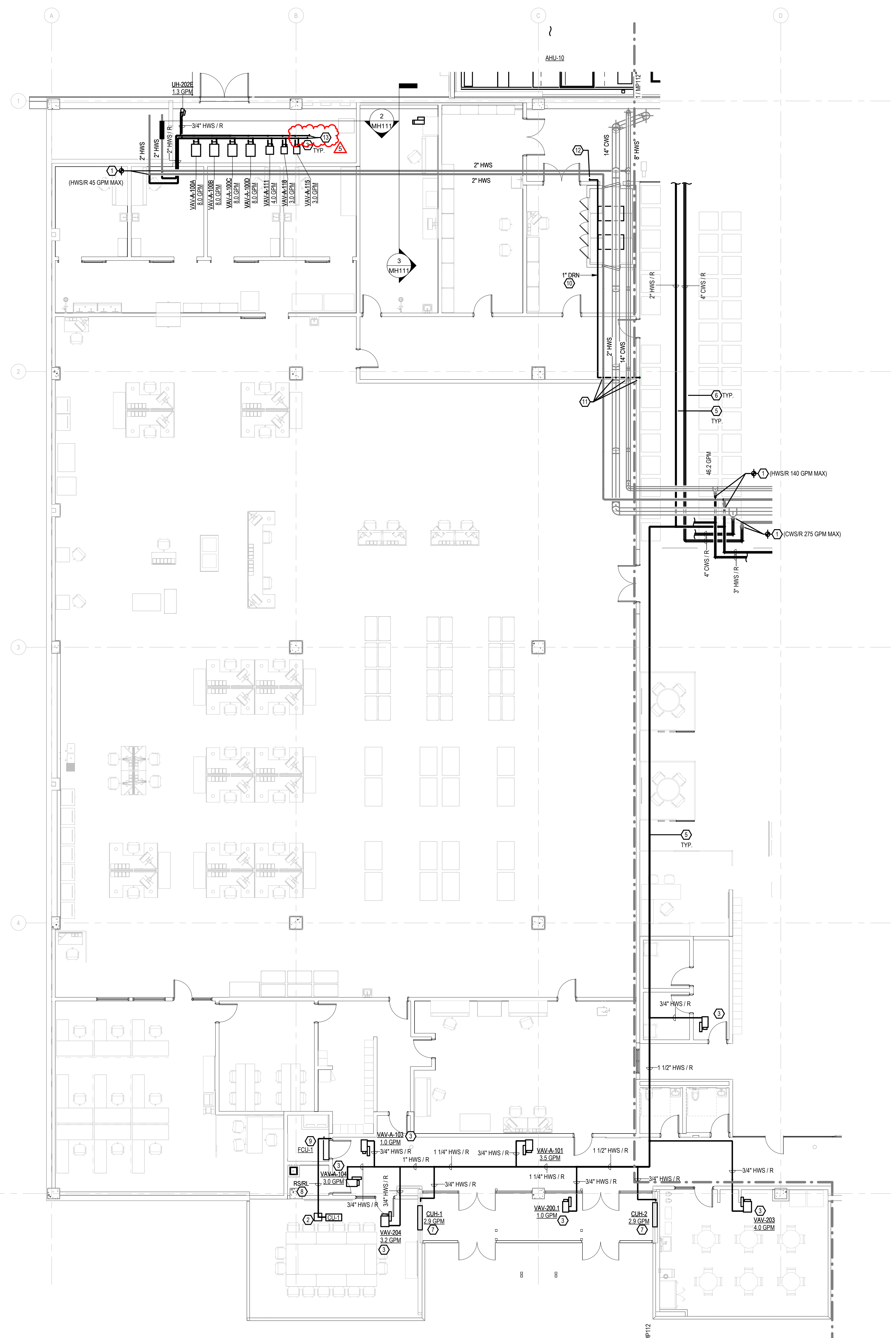


ISSUED	DATE
1 GMP/PERMIT RESPONSE	01/10/2025
2 ADDENDUM #1	01/24/2025
3 ADDENDUM #2	03/10/2025
4 BULLETIN #2	06/09/2025



AREA D SHEET METAL PLAN - POST PROCESSING
 1/8" = 1'-0"
 0' 4' 8' 16'





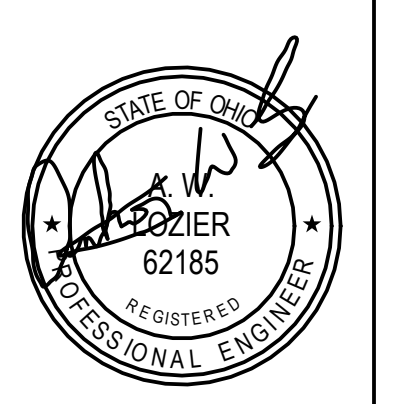
AREA A MECHANICAL PIPING PLAN - MICRO LAB
 1/8" = 1'-0" 1

CODED NOTES (NOT ALL MAY APPLY):

1. EXTEND AND CONNECT NEW PIPING TO EXISTING AS REQUIRED.
2. THE NEW REFRIGERANT PIPING IS TO PENETRATE THE ROOF THROUGH NEW PIPE CURB ASSEMBLY (SEE DETAIL), COORDINATE EXACT LOCATION IN FIELD.
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. CONNECT HWS/R PIPING AS REQUIRED TO CABINET UNIT HEATER. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
8. THE NEW REFRIGERANT PIPING IS TO BE INSTALLED OF SIZE AND PER ALL REQUIREMENTS OF THE HEAT PUMP MANUFACTURER. THE PIPE (OR TUBING) SIZE AND ALL REFRIGERANT PIPING COMPONENTS ARE TO BE PROVIDED AS RECOMMENDED BY THE HEAT PUMP MANUFACTURER. ALL EXTERIOR REFRIGERANT PIPE INSULATION IS TO BE COVERED WITH THE PROTECTIVE FINISH THAT IS SPECIFIED TO AVOID DAMAGE FROM UV RAYS.
9. THE NEW CONDENSATE DRAIN PIPING IS TO BE ROUTED WITH A MINIMUM SLOPE OF 1/8 INCH PER FOOT FOR GRAVITY FLOW. EXTEND TO AN INDIRECT CONNECTION AT THE NEARBY FLOOR DRAIN OR MOP SINK.
10. THE NEW DRAIN PIPING IS TO BE ROUTED WITH A MINIMUM SLOPE OF 1/8 INCH PER FOOT FOR GRAVITY FLOW.
11. TIE INTO EXISTING DRAIN VALVES AT LOW POINT OF EXISTING PIPING AS REQUIRED.
12. DROP DRAIN PIPING ALONG WALL AND TERMINATE INTO A 1" BALL VALVE WITH REMOVABLE PLUG AND HOSE CONNECTION. BALL VALVE TO BE LOCATED AT AN ACCESSIBLE LOCATION APPROXIMATELY 6'-0" A.F.F.
13. PROVIDE NEW BALL VALVE WITH CAP AND HOSE CONNECTION FOR DRAINING PURPOSES.

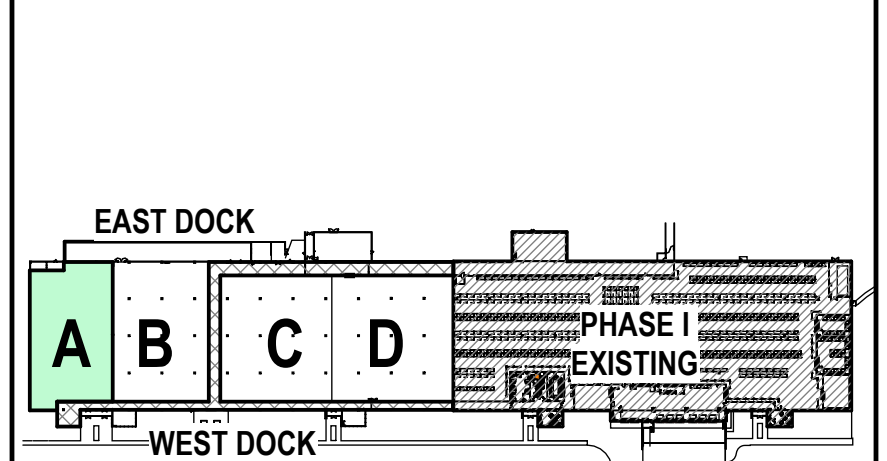
Solvita DESIGN GROUP
 555 CARR ST.
 CINCINNATI, OH 45203
 P: (513) 721-0600 F: (513) 721-0611

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



ISSUED	DATE
1 GMP/PERMIT RESPONSE	01/10/2025
2 ADDENDUM #1	01/24/2025
3 ADDENDUM #2	02/10/2025
4 BULLETIN #2	06/09/2025
5 BULLETIN #3	07/18/2025

KEY PLAN



SHEET TITLE
ENLARGED MECHANICAL PIPING PLAN - AREA A

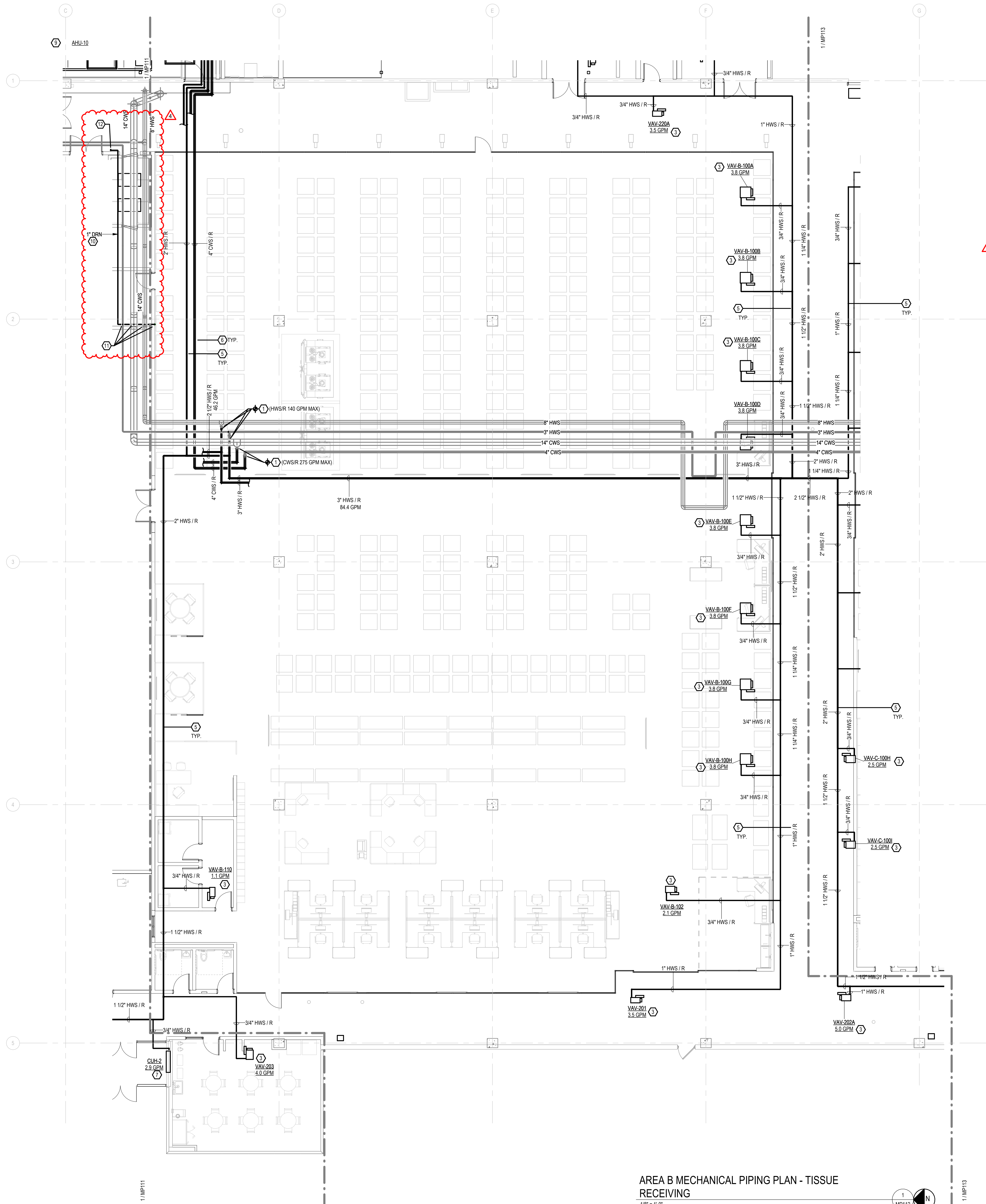
SCALE
 1/8" = 1'-0"

DRAWN BY
 ELEVVAR

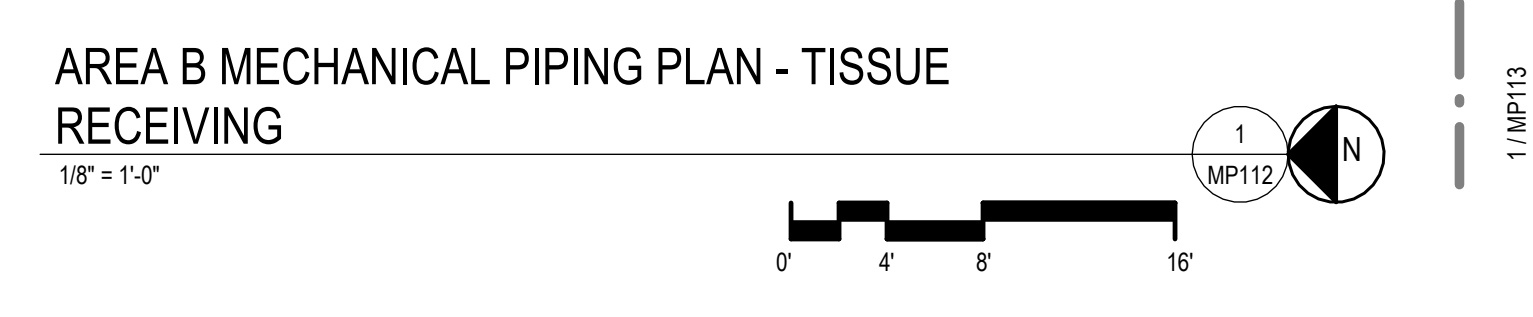
DATE
 01/10/2025

COMM. No.
 E-1007

SHEET
MP111



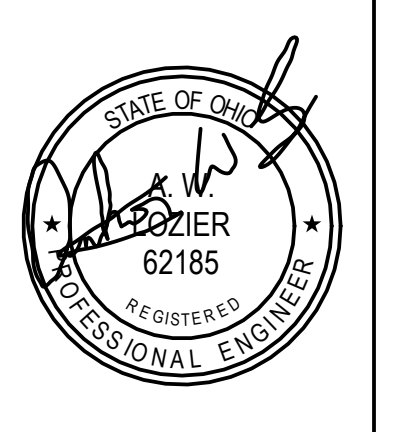
- CODED NOTES (NOT ALL MAY APPLY):**
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 12. DROP DRAIN PIPING ALONG WALL AND TERMINATE INTO A 1" BALL VALVE WITH REMOVABLE PLUG AND HOSE CONNECTION. BALL VALVE TO BE LOCATED AT AN ACCESSIBLE LOCATION APPROXIMATELY 6'-2" A.F.F.



AREA B MECHANICAL PIPING PLAN - TISSUE RECEIVING
 1/8" = 1'-0"

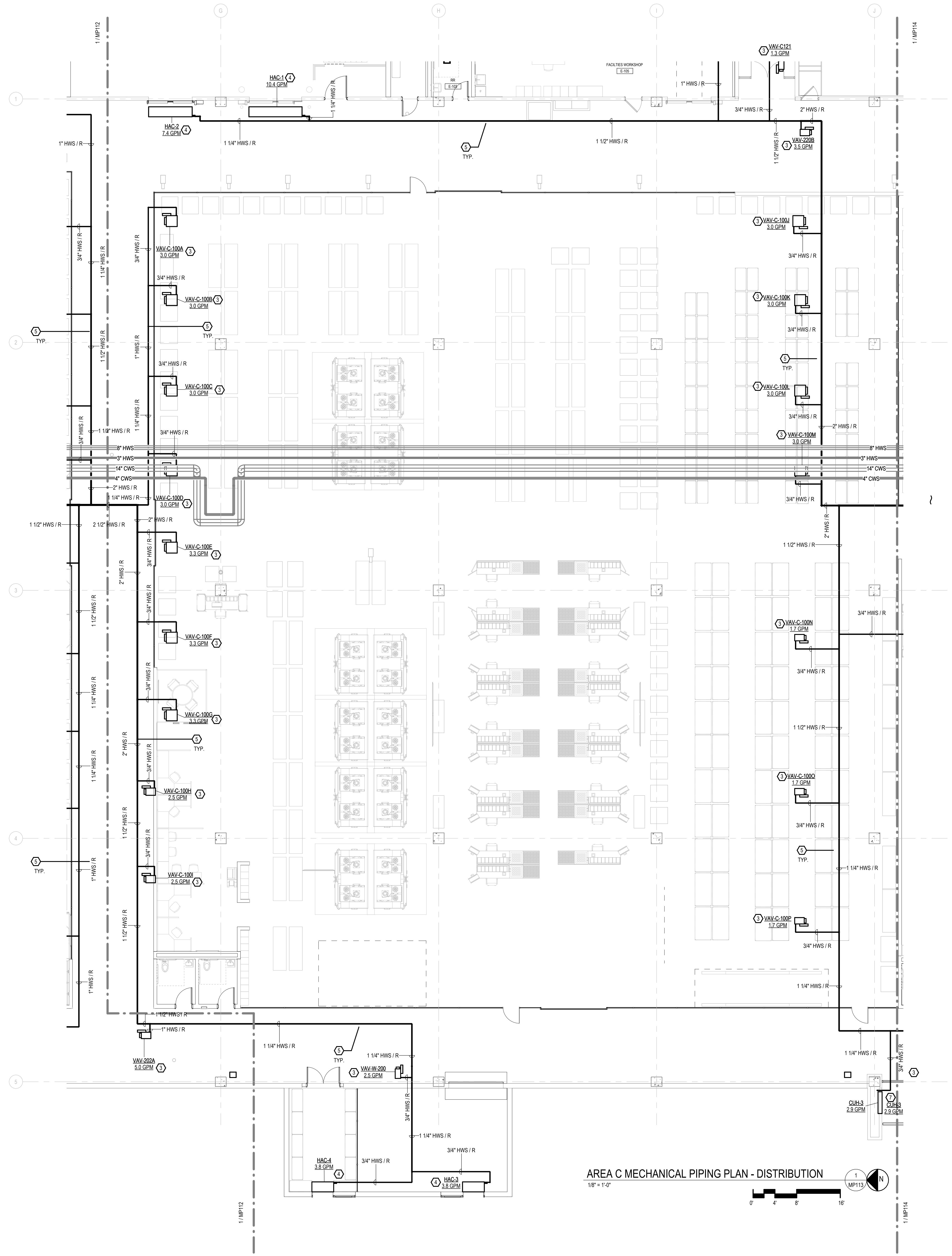
Solita DESIGN GROUP
 555 CARR ST.
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SOLVITA - 950 FORRER BLVD RENOVATION - PHASE 2
 950 FORRER BLVD
 KETTERING, OHIO 45420
SOLVITA
 2900 COLLEGE DRIVE, KETTERING, OHIO 45420



ISSUED	DATE
1. IMPERMIT RESPONSE	01/10/2023
2. ADDENDUM #1	01/24/2023
3. ADDENDUM #2	03/10/2023
4. BULLETIN #2	06/09/2023

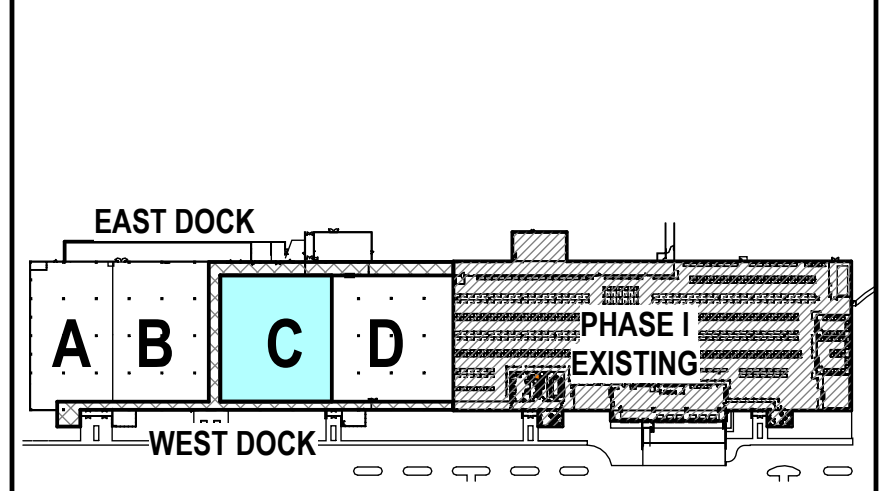
SHEET TITLE: **ENLARGED MECHANICAL PIPING PLAN - AREA B**
 SCALE: 1/8" = 1'-0"
 DRAWN BY: ELEVVAR
 DATE: 01/10/2023
 SHEET: **MP112**



CODED NOTES (NOT ALL MAY APPLY):

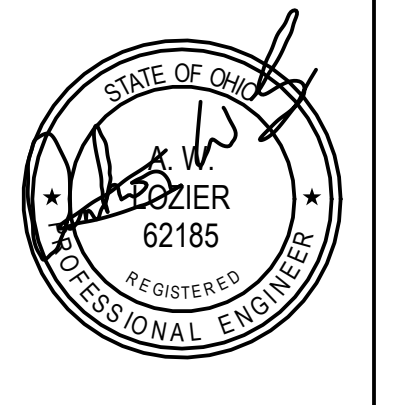
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KEY PLAN

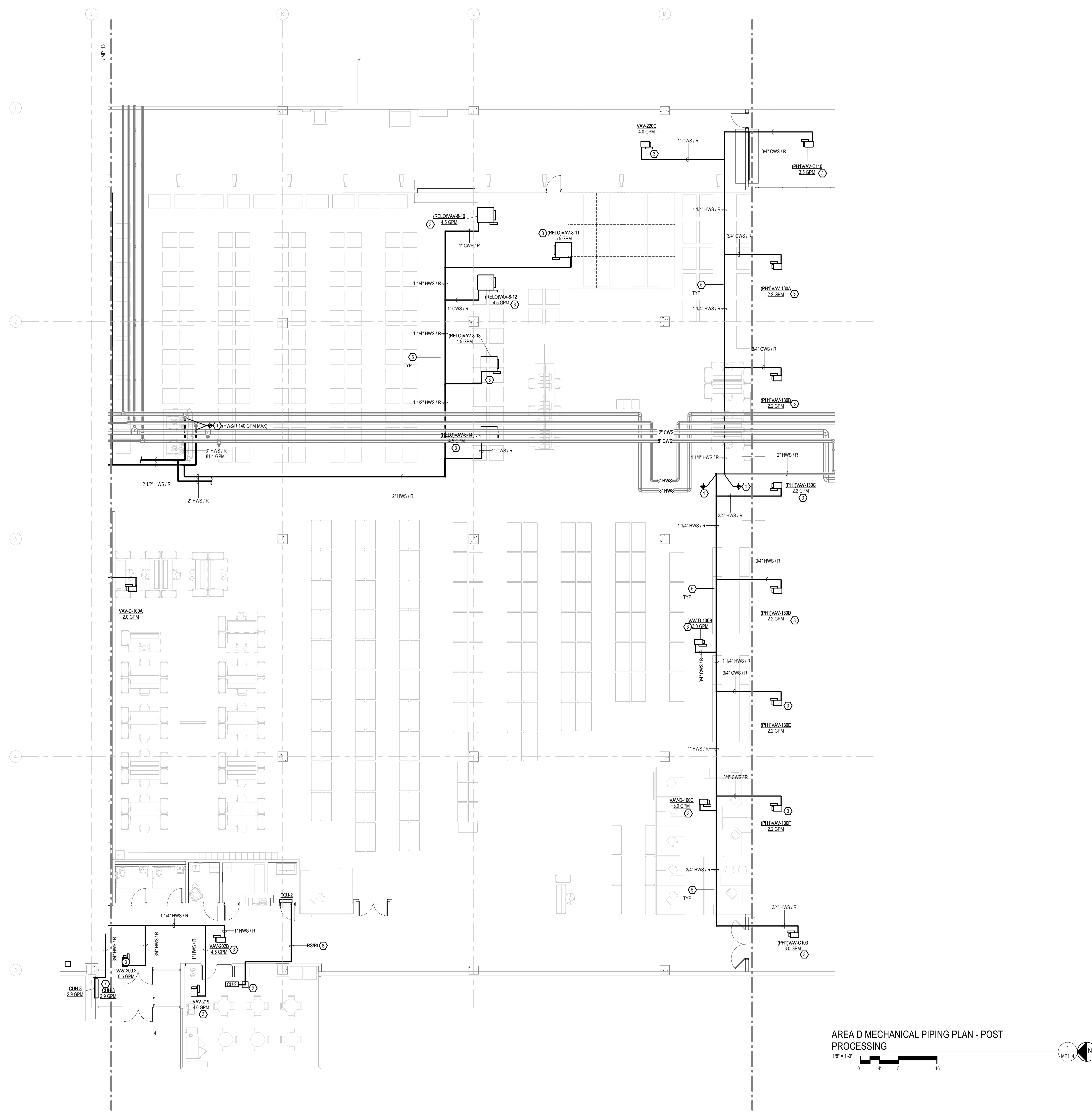


AREA C MECHANICAL PIPING PLAN - DISTRIBUTION

1/8" = 1'-0"

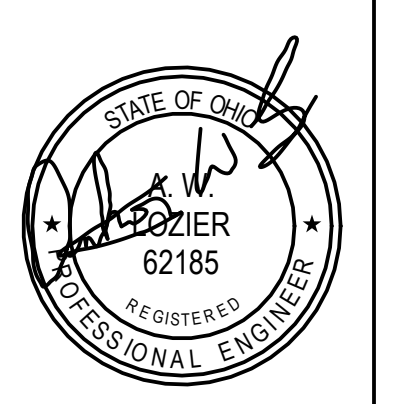


ISSUED	DATE
1 IMP/PERMIT RESPONSE	01/10/2025
2 ADDENDUM #1	01/24/2025



CODED NOTES (NOT ALL MAY APPLY):

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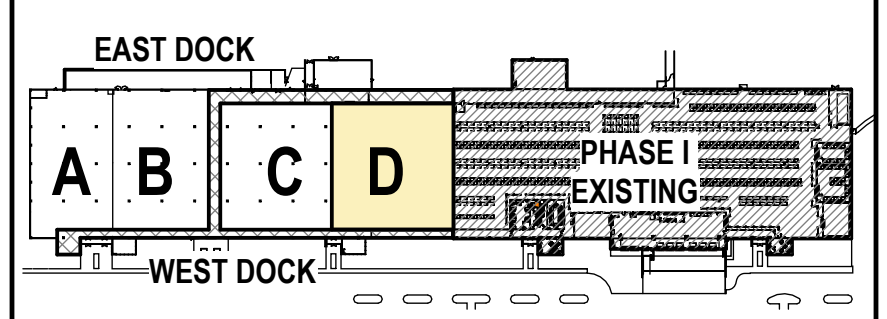


ISSUED	DATE
1 GMP/PERMIT RESPONSE	01/10/2025
2 ADDENDUM #1	01/24/2025

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



KEY PLAN



SHEET TITLE	
ENLARGED MECHANICAL PIPING PLAN - AREA D	
SCALE	COMM. No.
1/8" = 1'-0"	E-1007
DRAWN BY	DATE
ELEVATOR	01/10/2025
SHEET	
MP114	