MECHANICAL ABBREVIATIONS

AD	AREA DRAIN	KW	KILOWATT
A.F.F.	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE
AFMS	AIR FLOW MEASURING STATION	LAV	LAVATORY
AHU	AIR HANDLING UNIT	LWT	LEAVING WATER TEMPERATURE
ANB	ACID NEUTRALIZING BASIN	MBH	BTU PER HOUR (THOUSANDS)
AP	ACCESS PANEL	MCF	THOUSAND CUBIC FEET
ARCH	ARCHITECT	MH	MANHOLE
AS	AIR SEPARATOR	NC	NOISE CRITERIA OR NORMALLY CLOSED
BD	BUTTERFLY DAMPER		
BELOW	BELOW GRADE	NEG	NEGATIVE
BTU	BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT
BWV	BACKWATER VALVE	NO	NORMALLY OPEN
CCF	HUNDRED CUBIC FEET	NTS	NOT TO SCALE
CFH	CUBIC FEET PER HOUR	OA	OUTSIDE AIR
CFM	CUBIC FEET PER MINUTE	OBD	OPPOSED BLADE DAMPER
CL	CENTER LINE	ORD	OVERFLOW ROOF DRAIN
CLG	CEILING	PD	PRESSURE DROP OR DIFFERENCE
CO	CLEAN OUT	PE	PNEUMATIC-ELECTRIC
CONTR	CONTRACTOR	PLBG	PLUMBING
CONV	CONVECTOR	PRV	PRESSURE REDUCING VALVE OR POWER ROOF VENTILATOR
CUH	CABINET UNIT HEATER		
CW	COLD WATER	PSIA	POUNDS/SQ INCH ABSOLUTE
DB	DECIBEL	PSIG	POUNDS/SQ INCH GAUGE
DF	DRINKING FOUNTAIN	PVC	POLY VINYL CHLORIDE
DIA	DIAMETER	RA	RETURN AIR
DIFF	DIFFUSER	RCP	REINFORCED CONCRETE PIPE
DISCH	DISCHARGE	RD	ROOF DRAIN
DMPR	DAMPER	RECIRC	RECIRCULATING
DN	DOWN	REG	REGISTER
DR	DRAIN	RET	RETURN
DSN	DOWNSPOUT NOZZLE	RH	RELATIVE HUMIDITY
DWG	DRAWING	RH	ROOF HYDRANT
EAT	ENTERING AIR TEMPERATURE	RHT	REHEAT
EDR	EQUIVALENT DIRECT RADIATION	RHC	REHEAT COIL
EP	ELECTRIC-PNEUMATIC	RHW	RECIRCULATED HOT WATER
EWC	ELECTRIC WATER COOLER	RLF	RELIEF
EWT	ENTERING WATER TEMPERATURE	RM	ROOM
EXH	EXHAUST	RPM	REVOLUTIONS PER MINUTE
EXP	EXPANSION	RPZ	REDUCED ZONE BACKFLOW PREVENTER
F	FAHRENHEIT		
FC	FAN COIL	SA	SUPPLY AIR
FCO	FLOOR CLEAN OUT	SAN	SANITARY
FD	FLOOR DRAIN	SCFM	CFM, STANDARD CONDITIONS
FHC	FIRE HOSE CABINET	SD	SMOKE DAMPER
FHR	FIRE HOSE RACK	SP	STATIC PRESSURE
FLR	FLOOR	SPECS	SPECIFICATIONS
FLEX	FLEXIBLE	SUP	SUPPLY
FM	FIRE MAIN	SQ	SQUARE
FPM	FEET PER MINUTE	STM	STEAM
FPS	FEET PER SECOND	TD	TEMPERATURE DIFFERENCE
FT	FEET OR FOOT	TEMP	TEMPERATURE
F&T	FLOAT AND THERMOSTATIC	TONS	TONS OF REFRIGERATION
FTG	FOOTING	T-STAT	THERMOSTAT
FTR	FINNED TUBE RADIATION	TYP	TYPICAL
FV	FACE VELOCITY	UB	UP-BLAST
GA	GAUGE	UG	UNDERGROUND
GAL	GALLON	UH	UNIT HEATER
GEXH	GREASE EXHAUST	UR	URINAL
GPH	GALLONS PER HOUR	V	SANITARY VENT
GPM	GALLONS PER MINUTE	VAV	VARIABLE AIR VOLUME
GR	GRILLE	VD	VOLUME DAMPER
HB	HOSE BIBB	VEL	VELOCITY
HD	HEAD	VFD	VARIABLE FREQUENCY DRIVE
HOA	HANDS-OFF-AUTOMATIC	VOL	VOLUME
HTG	HEATING	VTR	VENT THROUGH ROOF
HTR	HEATER	W	SANITARY WASTE
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	W/	WITH
		W/O	WITHOUT
HYD	HYDRANT	WC	WATER CLOSET
HW	HOT WATER	WCO	WALL CLEANOUT
GCO	GRADE CLEANOUT	WH	WALL HYDRANT
INSUL	INSULATION	WTR	WATER
INV	INVERT	YCO	YARD CLEANOUT
ISO	ISOLATION EXHAUST	ZDL	ZERO DEADLEG VALVE

MECHANICAL SYMBOLS LEGEND

PLUMBING

SYMBOL	DESIGNATIONS
— AV — —	ACID VENT
— AW —	ACID WASTE
— CWV — —	CLEAR WATER VENT
— CWW —	CLEAR WATER WASTE
10#A	COMPRESSED AIR (PSI INDICATED)
— DIS —	DEIONIZED WATER SUPPLY
— DIR —	DEIONIZED WATER RETURN
— CW —	DOMESTIC COLD WATER
— HW —	DOMESTIC HOT WATER
— 140 —	DOMESTIC HOT WATER (TEMP. INDICATED)
— RHW —	DOMESTIC RECIRC. HOT WATER
— 140 RHW —	DOM. RECIRC. HOT WATER (TEMP. INDICATED)
— FW —	FILTERED WATER
— GW —	GREASE WASTE
— HARD —	HARD COLD WATER
— NPCW —	NON-POTABLE COLD WATER
— NPHW —	NON-POTABLE HOT WATER
— OSD —	OVERFLOW STORM DRAIN
— PAW —	PUMPED ACID WASTE
— PSD —	PUMPED STORM
— PW —	PUMPED WASTE
— RO —	REVERSE OSMOSIS WATER
— V —	SANITARY VENT
— W —	SANITARY WASTE
— SOFT —	SOFTENED COLD WATER
— SDT —	SOIL DRAINAGE TILE
— SHW —	SOFTENED HOT WATER
— SD —	STORM DRAIN
— TW —	TEMPERED WATER
— WW —	WELL WATER

MECHANICAL PIPING

SYMBOL	DESIGNATIONS
— ATM STM —	ATMOSPHERIC STEAM SUPPLY
— ATM SC —	ATMOSPHERIC STEAM CONDENSATE
— BF —	BOILER FEED
— CWS —	CHILLED WATER SUPPLY
— CWR —	CHILLED WATER RETURN
— CD —	CONDENSATE DRAIN
— CS —	CONDENSER WATER SUPPLY
— CR —	CONDENSER WATER RETURN
— FOS —	FUEL OIL SUPPLY
— FOR —	FUEL OIL RETURN
— FOF —	FUEL OIL FILL
— FOV —	FUEL OIL VENT
— GCS —	GLYCOL CHILLED SUPPLY
— GCR —	GLYCOL CHILLED RETURN
— GHS —	GLYCOL HEATING SUPPLY
— GHR —	GLYCOL HEATING RETURN
— HRS —	HEAT RECOVERY SUPPLY
— HRR —	HEAT RECOVERY RETURN
— HWS —	HEATING WATER SUPPLY
— HWR —	HEATING WATER RETURN
— IG —	INTERRUPTIBLE GAS
— LPG —	LIQUIFIED PETROLEUM GAS
— 2#G —	NATURAL GAS (PSI INDICATED)
— PC —	PUMPED CONDENSATE
— RADS —	RADIATION WATER SUPPLY
— RADR —	RADIATION WATER RETURN
— RL —	REFRIGERANT LIQUID
— RS —	REFRIGERANT SUCTION
— RHG —	REFRIGERANT HOT GAS BYPASS
— RHS —	REHEAT WATER SUPPLY
— RHR —	REHEAT WATER RETURN
— RRS —	REMOTE RADIATOR SUPPLY
— RRR —	REMOTE RADIATOR RETURN
— SHWS —	SECONDARY HEATING WATER SUPPLY
— SHWR —	SECONDARY HEATING WATER RETURN
— SMS —	SNOW MELT SUPPLY
— SMR —	SNOW MELT RETURN
— 10#STM —	STEAM SUPPLY (PSI INDICATED)
— 10#SC —	STEAM CONDENSATE (PSI INDICATED)

PIPE FITTINGS

SYMBOL	DESIGNATIONS
	CONNECTION, BOTTOM
	CONNECTION, TOP
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	ELBOW
	ELBOW DOWN
	ELBOW UP
	PIPE CAP
	PIPE FLANGE
	PIPE UNION
	TEE
	TEE, OUTLET UP
	TEE, OUTLET DOWN

PIPE SPECIALTIES

SYMBOL	DESIGNATIONS
	ALIGNMENT GUIDE
	AUTOMATIC AIR VENT
	AUTOMATIC CONTROL VALVE, 2-WAY
	AUTOMATIC CONTROL VALVE, 3-WAY
	BACKWATER VALVE
	BALANCE VALVE
	CATCH BASIN
	DIAPHRAGM
	DRAIN ABOVE
	DRAIN VALVE
	DUPLEX STRAINER
	EXPANSION JOINT
	FLEXIBLE CONNECTION
	FLOOR DRAIN
	FLOOR SINK
	FLOW DIRECTION
	FLOW DIRECTION W/PITCH
	FLOW SWITCH
	GAS COCK VALVE
	GAS PRESSURE REGULATOR VALVE
	HOSE BIBB
	MANHOLE
	MANUAL AIR VENT
	PIPE ANCHOR
	PRESSURE GAUGE W/PIGTAIL & PETCOCK
	PRESSURE REDUCING VALVE (SETTING AS NOTED, PSI)
	PRESSURE RELIEF/SAFETY VALVES(SETTING AS NOTED, PSI)
	PRESSURE SWITCH
	PRESSURE/TEMPERATURE TEST PORT
	PUMP
	REDUCED PRESSURE ZONE BACK FLOW PREVENTER
	REFRIGERANT DRYER
	REFRIGERANT SIGHT GLASS
	ROOF DRAIN
	STEAM TRAP (TYPE INDICATED)
	STRAINER
	STRAINER W/BLOWDOWN CAP AND VALVE
	THERMOMETER
	WALL CLEANOUT
	WALL HYDRANT
	WATER HAMMER ARRESTOR

DUCTWORK

SYMBOL	DESIGNATIONS
	SUPPLY AIR OR OUTDOOR AIR
	RETURN AIR
	EXHAUST AIR
	STANDARD BRANCH, NO SPLITTER - SUPPLY FLOW TO RIGHT - RETURN/EXHAUST FLOW TO LEFT
	BELLMOUTH WITH BALANCING DAMPER
	FLEXIBLE DUCT
	TURNING VANES
	FLEXIBLE CONNECTION
	MANUAL VOLUME DAMPER
	MOTORIZED DAMPER
	AIRFLOW MEASURING STATION
TYPE / ORIENTATION / ACTUATOR (AS APPLICABLE) BLADE/CURTAIN	FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPERS TYPE: FD = FIRE DAMPER SD = SMOKE DAMPER FSD = COMBINATION FIRE/SMOKE DAMPER CRD = CEILING RADIATION DAMPER ORIENTATION: HORIZONTAL VERTICAL
	SUPPLY GRILLE OR REGISTER
	RETURN OR EXHAUST GRILLE OR REGISTER
	SUPPLY DUCT UP, POSITIVE PRESSURE
	RETURN DUCT UP, NEGATIVE PRESSURE
	EXHAUST DUCT UP, NEGATIVE PRESSURE
	SUPPLY DUCT DN, POSITIVE PRESSURE
	RETURN DUCT DN, NEGATIVE PRESSURE
	EXHAUST DUCT DN, NEGATIVE PRESSURE
	SUPPLY DIFFUSER/REGISTER BLANKOFF INDICATED
	RETURN GRILLE/REGISTER
	EXHAUST GRILLE/REGISTER
	LINEAR DIFFUSER
	CONCENTRIC DUCT TRANSITION
	ECCENTRIC DUCT TRANSITION
	RECTANGULAR-TO-ROUND DUCT TRANSITION
	VAV BOX
	VAV BOX W/ REHEAT COIL
	REHEAT COIL
	VAV BOX W/ ELECTRIC REHEAT
	VAV BOX W/ DUCT SILENCER
	VAV BOX W/ DUCT SILENCER & REHEAT COIL
	VENTURI TYPE AIR VALVE
WIDE / DROP	DUCT OFFSETS
	DUCT CUTLINE

MEDICAL GAS

SYMBOL	DESIGNATIONS
AAP	AREA ALARM PANEL
CAP	COMBINATION AREA/MASTER ALARM PANEL
MAP	MASTER ALARM PANEL
2VB	ZONE VALVE BOX
CO2	CARBON DIOXIDE
IA	INSTRUMENT AIR
MA	MEDICAL AIR
MV	MEDICAL VACUUM
N	NITROGEN
N2O	NITROUS OXIDE
O	OXYGEN
WAGD	WASTE ANESTHETIC GAS DISPOSAL

PROCESS AND LABORATORY

SYMBOL	DESIGNATIONS
AR	ARGON
CDA	CLEAN DRY AIR
HV	HOUSE VACUUM
LA	LABORATORY AIR
LV	LABORATORY VACUUM
LN	LIQUID NITROGEN
N	NITROGEN
PV	PROCESS VACUUM
PRW	PROCESS WASTE
RO	REVERSE OSMOSIS

FIRE PROTECTION

SYMBOL	DESIGNATIONS
TS	BUTTERFLY VALVE W/TAMPER SWITCH
	DETECTOR CHECK W/BYPASS METER
	DRY PIPE VALVE
FDV	FIRE DEPT VALVE W/CAP AND CHAIN
F	FIRE PROTECTION
DFP	FIRE PROTECTION (DRY SYSTEM)
	FIRE PROTECTION RISER
LJ	FLUSH FIRE DEPT CONNECTION
	GRADE FIRE DEPT CONNECTION
TS	O.S. & Y. VALVE W/TAMPER SWITCH
	PENDANT SPRINKLER HEAD
	POST INDICATOR VALVE (PIV)
	PREACTION VALVE
FDVG	RECESSED FIRE DEPT CABINET
	SIDEWALL SPRINKLER HEAD
FDVG	SURFACE MOUNTED FIRE DEPT CABINET
	UPRIGHT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD W/GUARD

ANNOTATION

12x12 / 12ø / 12/12	RECTANGULAR (WxH) / ROUND / FLAT-OVAL (W/H) — DUCT DIMENSIONS
(4)-12"ø / 450	QUANTITY / TYPE / SIZE / CFM — GRILLE, REGISTER, & DIFFUSER IDENTIFICATION
TYPE FTR/RP 01 6'-0" / GPM 0.5	ACTIVE ELEMENT LENGTH — HYDRONIC FINNED TUBE RADIATION & RADIANT PANEL IDENTIFICATION
TYPE EBR 01 6'-0"	ACTIVE ELEMENT LENGTH — ELECTRIC BASEBOARD RADIATION IDENTIFICATION
	DETAIL NUMBER / SHEET NUMBER
	SECTION NUMBER / SHEET NUMBER
	EQUIP DESIGNATION / EQUIP NUMBER
XXXX #-##	EXISTING EQUIP NUMBER / EXISTING EQUIP DESIGNATION
	POINT OF CONNECTION, NEW TO EXISTING
	POINT OF DISCONNECTION

GENERAL

	LIGHT SOLID LINE WEIGHT INDICATES EXISTING ITEM TO REMAIN.
	DARK DASHED LINE WEIGHT INDICATES EXISTING ITEM TO BE DEMOLISHED.
	DARK SOLID LINE WEIGHT INDICATES NEW ITEM OR NEW LOCATION.

CONTROLS

SYMBOL	DESIGNATIONS
	AQUA STAT
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	ENERGY METER
	FLOW METER
	HUMIDISTAT OR R.H. SENSOR
	REFRIGERANT SENSOR
	ROOM PRESSURE MONITOR
	SMOKE DETECTOR
	SPACE TEMPERATURE SENSOR
	STATIC PRESSURE SENSOR
	TAMPERPROOF THERMOSTAT
	THERMOSTAT
	THERMOSTAT W/GUARD
	TEMPERATURE SENSOR
	TEMPERATURE TRANSMITTER IN WELL

MECHANICAL SHEET LIST

SHEET NUMBER	SHEET NAME
M0.00	MECHANICAL TITLE SHEET
M1.00	MECHANICAL SITE PLAN
F2.00A	FIRE PROTECTION PLAN - LEVEL 00 - WEST WING
F2.00B	FIRE PROTECTION PLAN - LEVEL 00 - EAST WING
F2.00C	FIRE PROTECTION PLAN - LEVEL 00 - CUP
F2.01A	FIRE PROTECTION PLAN - LEVEL 01 - WEST WING
F2.01B	FIRE PROTECTION PLAN - LEVEL 01 - EAST WING
F2.02A	FIRE PROTECTION PLAN - LEVEL 02 - WEST WING
F2.02B	FIRE PROTECTION PLAN - LEVEL 02 - EAST WING
F2.03A	FIRE PROTECTION PLAN - LEVEL 03 - WEST WING
F2.03B	FIRE PROTECTION PLAN - LEVEL 03 - EAST WING
F2.04A	FIRE PROTECTION PLAN - LEVEL 04 - WEST WING
F2.04B	FIRE PROTECTION PLAN - LEVEL 04 - EAST WING
F2.05A	FIRE PROTECTION PLAN - LEVEL 05 - WEST WING
F2.05B	FIRE PROTECTION PLAN - LEVEL 05 - EAST WING
F2.06A	FIRE PROTECTION PLAN - LEVEL 06 - WEST WING
F2.06B	FIRE PROTECTION PLAN - LEVEL 06 - EAST WING
F4.00	FIRE PROTECTION SCHEMATIC AND DETAILS
FE5.10	FIRE PROTECTION AND ELECTRICAL SCHEDULES
M2.00A	HVAC PLAN - LEVEL 00 - WEST WING
M2.00B	HVAC PLAN - LEVEL 00 - EAST WING
M2.00C	HVAC PLAN - LEVEL 00 - CUP
M2.01A	HVAC PLAN - LEVEL 01 - WEST WING
M2.01B	HVAC PLAN - LEVEL 01 - EAST WING
M2.01C	MECHANICAL PLAN - LEVEL 01 - CUP
M2.02A	HVAC PLAN - LEVEL 02 - WEST WING
M2.02B	HVAC PLAN - LEVEL 02 - EAST WING
M2.03A	HVAC PLAN - LEVEL 03 - WEST WING
M2.03B	HVAC PLAN - LEVEL 03 - EAST WING
M2.04A	HVAC PLAN - LEVEL 04 - WEST WING
M2.04B	HVAC PLAN - LEVEL 04 - EAST WING
M2.05A	HVAC PLAN - LEVEL 05 - WEST WING
M2.05B	HVAC PLAN - LEVEL 05 - EAST WING
M2.06A	HVAC PLAN - LEVEL 06 - WEST WING
M2.06B	HVAC PLAN - LEVEL 06 - EAST WING
M2.07A	HVAC PLAN - ROOF - WEST WING
M2.10A	PIPING PLAN - LEVEL 00 - WEST WING
M2.10B	PIPING PLAN - LEVEL 00 - EAST WING
M2.10C	PIPING PLAN - LEVEL 00 - CUP
M2.11A	PIPING PLAN - LEVEL 01 - WEST WING
M2.11B	PIPING PLAN - LEVEL 01 - EAST WING
M2.12A	PIPING PLAN - LEVEL 02 - WEST WING
M2.12B	PIPING PLAN - LEVEL 02 - EAST WING
M2.13A	PIPING PLAN - LEVEL 03 - WEST WING
M2.13B	PIPING PLAN - LEVEL 03 - EAST WING
M2.14A	PIPING PLAN - LEVEL 04 - WEST WING
M2.14B	PIPING PLAN - LEVEL 04 - EAST WING
M2.15A	PIPING PLAN - LEVEL 05 - WEST WING
M2.15B	PIPING PLAN - LEVEL 05 - EAST WING
M2.16A	PIPING PLAN - LEVEL 06 - WEST WING
M2.16B	PIPING PLAN - LEVEL 06 - EAST WING
M3.00	ENLARGED HVAC PLAN - LEVEL 00 CUP NORTH
M3.01	ENLARGED HVAC PLAN - LEVEL 00 CUP SOUTH
M3.02	ENLARGED HVAC PLAN - LEVEL 00 MECH ROOM
M3.03	ENLARGED HVAC PLAN - LEVEL 00 KITCHEN
M3.04	ENLARGED HVAC PLAN - LEVEL 00 SPD
M3.05	ENLARGED HVAC PLAN - LEVEL 01 LAB & PHARMACY
M3.06	ENLARGED HVAC PLAN - LEVEL 06 PENTHOUSE WEST
M3.07	ENLARGED HVAC PLAN - LEVEL 06 PENTHOUSE EAST
M3.20	ENLARGED PRESSURIZATION PLAN - LEVEL 00 SPD
M3.21	ENLARGED PRESSURIZATION PLAN - LEVEL 01 LAB & PHARMACY
M3.22	ENLARGED PRESSURIZATION PLAN - LEVEL 02 WEST OPERATING SUITE
M3.23	ENLARGED PRESSURIZATION PLAN - LEVEL 02 EAST OPERATING SUITE
M3.50	ENLARGED PIPING PLAN - LEVEL 00 CUP NORTH
M3.51	ENLARGED PIPING PLAN - LEVEL 00 CUP SOUTH
M3.52	ENLARGED PIPING PLAN - LEVEL 00 MECH ROOM
M3.53	ENLARGED PIPING PLAN - LEVEL 00 KITCHEN
M3.54	ENLARGED PIPING PLAN - LEVEL 00 SPD
M3.55	ENLARGED PIPING PLAN - LEVEL 06 PENTHOUSE WEST
M3.56	ENLARGED PIPING PLAN - LEVEL 06 PENTHOUSE EAST
M3.57	ENLARGED STEAM SYSTEM AND NATURAL GAS PIPING PLAN - LEVEL 00 CUP SOUTH
M4.00	CHILLED WATER SCHEMATIC
M4.01	HEATING WATER SCHEMATIC
M4.02	STEAM PLANT SCHEMATIC
M4.03	SPD AND KITCHEN STEAM SCHEMATIC
M4.04	FUEL OIL AND NATURAL GAS SCHEMATICS
M4.05	CONDENSER WATER SCHEMATIC
M5.00	VAV BOX SCHEDULES
M5.01	VAV BOX SCHEDULES
M5.02	VAV BOX SCHEDULES
M5.03	MECHANICAL SCHEDULES
M6.00	MECHANICAL DETAILS
M6.01	MECHANICAL DETAILS
M6.02	MECHANICAL DETAILS
M6.03	MECHANICAL DETAILS
M6.04	MECHANICAL DETAILS
M6.10	AIR HANDLING UNIT DETAILS
M6.11	AIR HANDLING UNIT DETAILS
M6.12	AIR HANDLING UNIT DETAILS
M6.13	AIR HANDLING UNIT DETAILS
M6.14	AIR HANDLING UNIT DETAILS
ME2.00A	DAMPER PLAN - LEVEL 00 - WEST WING
ME2.00B	DAMPER PLAN - LEVEL 00 - EAST WING
ME2.00C	DAMPER PLAN - LEVEL 00 - CUP
ME2.01A	DAMPER PLAN - LEVEL 01 - WEST WING
ME2.01B	DAMPER PLAN - LEVEL 01 - EAST WING
ME2.02A	DAMPER PLAN - LEVEL 02 - WEST WING
ME2.02B	DAMPER PLAN - LEVEL 02 - EAST WING
ME2.03A	DAMPER PLAN - LEVEL 03 - WEST WING
ME2.03B	DAMPER PLAN - LEVEL 03 - EAST WING
ME2.04A	DAMPER PLAN - LEVEL 04 - WEST WING
ME2.04B	DAMPER PLAN - LEVEL 04 - EAST WING
ME2.05A	DAMPER PLAN - LEVEL 05 - WEST WING
ME2.05B	DAMPER PLAN - LEVEL 05 - EAST WING
ME2.06A	DAMPER PLAN - LEVEL 06 - WEST WING
ME2.06B	DAMPER PLAN - LEVEL 06 - EAST WING
ME2.07A	DAMPER PLAN - ROOF - WEST WING
ME4.00	SMOKE DAMPER AND FIRE ALARM MATRIX
ME5.10	AIR HANDLING UNIT SCHEDULES
ME5.11	AIR HANDLING UNIT SCHEDULES
ME5.12	HYDRONIC EQUIPMENT SCHEDULES
ME5.13	HYDRONIC EQUIPMENT SCHEDULES
ME5.14	STEAM EQUIPMENT SCHEDULES
ME5.15	VARIABLE FREQUENCY DRIVES SCHEDULE
ME5.16	HYDRONIC EQUIPMENT SCHEDULES

MECHANICAL SHEET LIST

SHEET NUMBER	SHEET NAME
ME5.17	HVAC EQUIPMENT SCHEDULES
ME5.18	HVAC EQUIPMENT SCHEDULES
P2.00A	PLUMBING PLAN - UNDERFLOOR - WEST WING
P2.00B	PLUMBING PLAN - UNDERFLOOR - EAST WING
P2.00C	PLUMBING PLAN - UNDERFLOOR - CUP
P2.00A-DW	PLUMBING PLAN - DOMESTIC WATER - LEVEL 00 - WEST WING
P2.00A-WV	PLUMBING PLAN - DRAIN WASTE VENT - LEVEL 00 - WEST WING
P2.00B-DW	PLUMBING PLAN - DOMESTIC WATER - LEVEL 00 - EAST WING
P2.00B-WV	PLUMBING PLAN - DRAIN WASTE VENT - LEVEL 00 - EAST WING
P2.01A-DW	PLUMBING PLAN - DOMESTIC WATER - LEVEL 01 - WEST WING
P2.01A-WV	PLUMBING PLAN - DRAIN WASTE VENT - LEVEL 01 - WEST WING
P2.01B-DW	PLUMBING PLAN - DOMESTIC WATER - LEVEL 01 - EAST WING
P2.01B-WV	PLUMBING PLAN - DRAIN WASTE VENT - LEVEL 01 - EAST WING
P2.01C	PLUMBING PLAN - LEVEL 01 - CUP
P2.02A-DW	PLUMBING PLAN - DOMESTIC WATER - LEVEL 02 - WEST WING
P2.02A-WV	PLUMBING PLAN - DRAIN WASTE VENT - LEVEL 02 - WEST WING
P2.02B-DW	PLUMBING PLAN - DOMESTIC WATER - LEVEL 02 - EAST WING
P2.02B-WV	PLUMBING PLAN - DRAIN WASTE VENT - LEVEL 02 - EAST WING
P2.03A-DW	PLUMBING PLAN - DOMESTIC WATER - LEVEL 03 - WEST WING
P2.03A-WV	PLUMBING PLAN - DRAIN WASTE VENT - LEVEL 03 - WEST WING
P2.03B-DW	PLUMBING PLAN - DOMESTIC WATER - LEVEL 03 - EAST WING
P2.03B-WV	PLUMBING PLAN - DRAIN WASTE VENT - LEVEL 03 - EAST WING
P2.04A-DW	PLUMBING PLAN - DOMESTIC WATER - LEVEL 04 - WEST WING
P2.04A-WV	PLUMBING PLAN - DRAIN WASTE VENT - LEVEL 04 - WEST WING
P2.04B-DW	PLUMBING PLAN - DOMESTIC WATER - LEVEL 04 - EAST WING
P2.04B-WV	PLUMBING PLAN - DRAIN WASTE VENT - LEVEL 04 - EAST WING
P2.05A-DW	PLUMBING PLAN - DOMESTIC WATER - LEVEL 05 - WEST WING
P2.05A-WV	PLUMBING PLAN - DRAIN WASTE VENT - LEVEL 05 - WEST WING
P2.05B-DW	PLUMBING PLAN - DOMESTIC WATER - LEVEL 05 - EAST WING
P2.05B-WV	PLUMBING PLAN - DRAIN WASTE VENT - LEVEL 05 - EAST WING
P2.06A	PLUMBING PLAN - LEVEL 06 - WEST WING
P2.06B	PLUMBING PLAN - LEVEL 06 - EAST WING
P2.07A	PLUMBING PLANS - ROOF - WEST WING
P2.07B	PLUMBING PLAN - ROOF - EAST WING
P2.10A	MEDICAL GAS PLAN - LEVEL 00 - WEST WING
P2.10B	MEDICAL GAS PLAN - LEVEL 00 - EAST WING
P2.10C	MEDICAL GAS PLAN - LEVEL 00 - CUP
P2.11A	MEDICAL GAS PLAN - LEVEL 01 - WEST WING
P2.11B	MEDICAL GAS PLAN - LEVEL 01 - EAST WING
P2.12A	MEDICAL GAS PLAN - LEVEL 02 - WEST WING
P2.12B	MEDICAL GAS PLAN - LEVEL 02 - EAST WING
P2.13A	MEDICAL GAS PLAN - LEVEL 03 - WEST WING
P2.13B	MEDICAL GAS PLAN - LEVEL 03 - EAST WING
P2.14A	MEDICAL GAS PLAN - LEVEL 04 - WEST WING
P2.14B	MEDICAL GAS PLAN - LEVEL 04 - EAST WING
P2.15A	MEDICAL GAS PLAN - LEVEL 05 - WEST WING
P2.15B	MEDICAL GAS PLAN - LEVEL 05 - EAST WING
P3.00	ENLARGED PLUMBING PLAN - CUP NORTH
P3.01	ENLARGED PLUMBING PLAN - CUP SOUTH
P3.02	ENLARGED PLUMBING PLAN - LEVEL 00 KITCHEN
P3.03	ENLARGED PLUMBING PLAN - LEVEL 00 SPD
P3.04	ENLARGED PLUMBING PLAN - LEVEL 01 CAFE
P3.05	ENLARGED PLUMBING PLAN - LEVEL 02 ENDO
P3.06	ENLARGED PLUMBING PLAN - CANOPY PLANS
P4.00	DOMESTIC WATER SCHEMATIC
P4.01	REVERSE OSMOSIS/DEIONIZED WATER SCHEMATIC
P4.02	MEDICAL GAS SCHEMATIC
P4.10	DOMESTIC WATER RISERS - LEVEL 00 - CUP
P4.11	DOMESTIC WATER RISERS - LEVEL 00
P4.12	DOMESTIC WATER RISERS - LEVEL 00
P4.13	DOMESTIC WATER RISERS - LEVEL 01
P4.14	DOMESTIC WATER RISERS - LEVEL 01
P4.15	DOMESTIC WATER RISERS - LEVEL 01
P4.16	DOMESTIC WATER RISERS - LEVEL 01
P4.17	DOMESTIC WATER RISERS - LEVEL 01
P4.18	DOMESTIC WATER RISERS - LEVEL 02
P4.19	DOMESTIC WATER RISERS - LEVEL 02
P4.20	DOMESTIC WATER RISERS - LEVEL 02
P4.21	DOMESTIC WATER RISERS - LEVEL 02
P4.22	DOMESTIC WATER RISERS - LEVEL 02
P4.23	DOMESTIC WATER RISERS - LEVEL 03
P4.24	DOMESTIC WATER RISERS - LEVEL 03
P4.25	DOMESTIC WATER RISERS - LEVEL 03
P4.26	DOMESTIC WATER RISERS - LEVEL 04
P4.27	DOMESTIC WATER RISERS - LEVEL 04
P4.28	DOMESTIC WATER RISERS - LEVEL 05
P4.29	DOMESTIC WATER RISERS - LEVEL 05
P4.30	DOMESTIC WATER RISERS - LEVEL 06
P4.50	WASTE AND VENT RISERS - LEVEL 00 - CUP
P4.51	WASTE AND VENT RISERS - LEVEL 00
P4.52	WASTE AND VENT RISERS - LEVEL 00
P4.53	WASTE AND VENT RISERS - LEVEL 00
P4.54	WASTE AND VENT RISERS - LEVEL 00
P4.55	WASTE AND VENT RISERS - LEVEL 00
P4.56	WASTE AND VENT RISERS - LEVEL 01
P4.57	WASTE AND VENT RISERS - LEVEL 01
P4.58	WASTE AND VENT RISERS - LEVEL 01
P4.59	WASTE AND VENT RISERS - LEVEL 01
P4.60	WASTE AND VENT RISERS - LEVEL 01
P4.61	WASTE AND VENT RISERS - LEVEL 02
P4.62	WASTE AND VENT RISERS - LEVEL 02
P4.63	WASTE AND VENT RISERS - LEVEL 02
P4.64	WASTE AND VENT RISERS - LEVEL 02
P4.65	WASTE AND VENT RISERS - LEVEL 02
P4.66	WASTE AND VENT RISERS - LEVEL 03
P4.67	WASTE AND VENT RISERS - LEVEL 03
P4.68	WASTE AND VENT RISERS - LEVEL 03
P4.69	WASTE AND VENT RISERS - LEVEL 04
P4.70	WASTE AND VENT RISERS - LEVEL 04
P4.71	WASTE AND VENT RISERS - LEVEL 04
P4.72	WASTE AND VENT RISERS - LEVEL 05
P4.73	WASTE AND VENT RISERS - LEVEL 05
P4.74	WASTE AND VENT RISERS - LEVEL 06
P4.75	WASTE AND VENT RISERS - LEVEL 06
P5.00	PLUMBING SCHEDULES
P5.01	PLUMBING SCHEDULES
P5.02	PLUMBING SCHEDULES
P5.03	PLUMBING SCHEDULES
P6.00	PLUMBING DETAILS
P6.01	PLUMBING DETAILS
P6.02	PLUMBING DETAILS
P6.03	PLUMBING DETAILS
PE5.10	PLUMBING EQUIPMENT SCHEDULES
PE5.11	PLUMBING EQUIPMENT SCHEDULES
PE5.12	MEDICAL GAS EQUIPMENT SCHEDULES

SHEET TOTAL: 230

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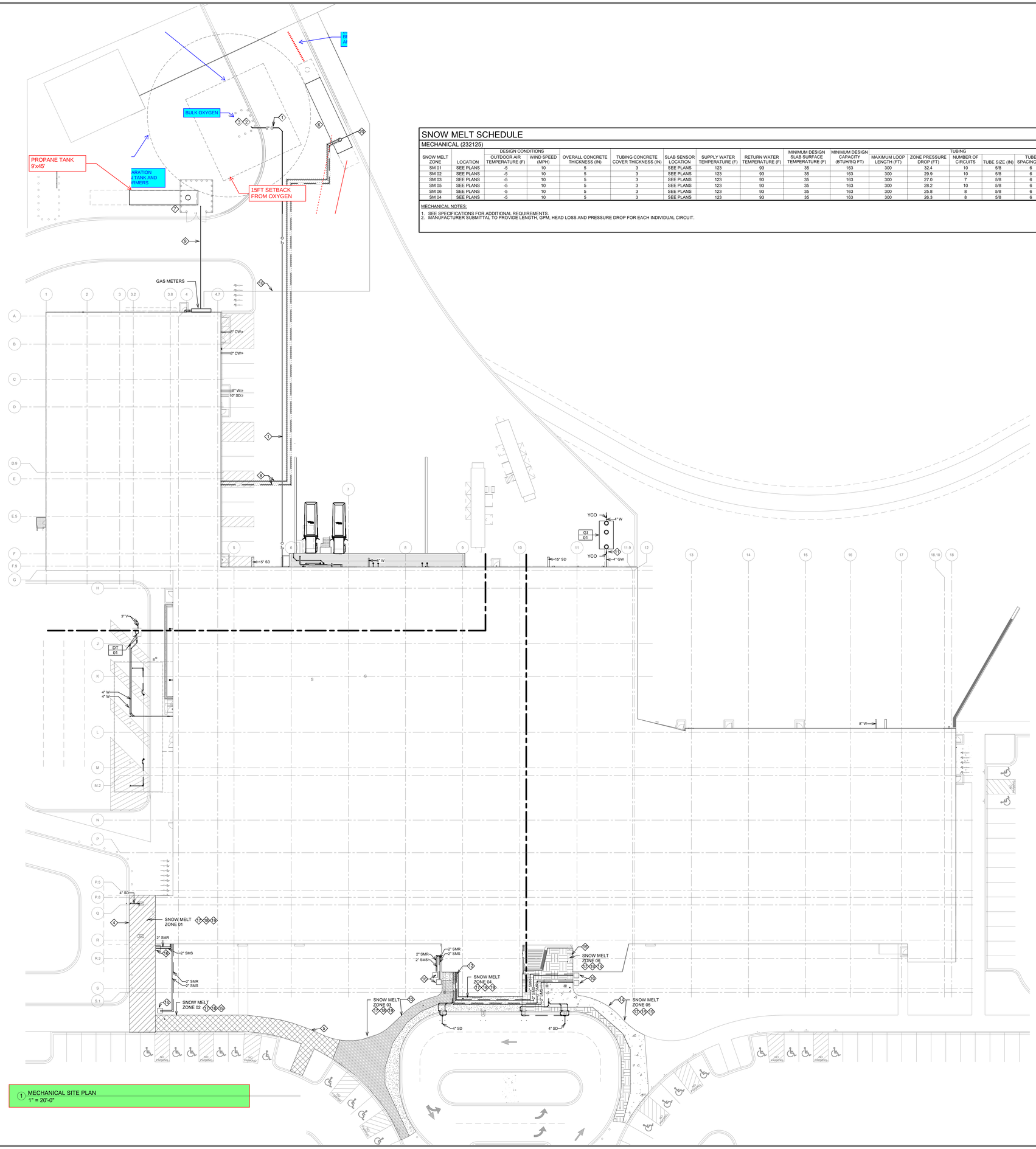
**GENERAL CONT



1 MECHANICAL SITE PLAN
1" = 20'-0"

SNOW MELT SCHEDULE

MECHANICAL (232125)

SNOW MELT ZONE	LOCATION	DESIGN CONDITIONS OUTDOOR AIR TEMPERATURE (F)	WIND SPEED (MPH)	OVERALL CONCRETE THICKNESS (IN)	TUBING CONCRETE COVER THICKNESS (IN)	SLAB SENSOR LOCATION	SUPPLY WATER TEMPERATURE (F)	RETURN WATER TEMPERATURE (F)	MINIMUM DESIGN SLAB SURFACE TEMPERATURE (F)	MINIMUM DESIGN CAPACITY (BTUH/SQ FT)	TUBING MAXIMUM LOOP LENGTH (FT)	ZONE PRESSURE DROP (FT)	NUMBER OF CIRCUITS	TUBE SIZE (IN)	TUBE SPACING (IN)	TOTAL FLOW AT MANIFOLD (GPM)	MANUFACTURER	MECHANICAL NOTES
SM 01	SEE PLANS	-5	10	5	3	SEE PLANS	123	93	35	163	300	32.4	10	5/8	6	18.2	UPONOR	1,2
SM 02	SEE PLANS	-5	10	5	3	SEE PLANS	123	93	35	163	300	29.9	10	5/8	6	17.4	UPONOR	1,2
SM 03	SEE PLANS	-5	10	5	3	SEE PLANS	123	93	35	163	300	27.0	7	5/8	6	12.4	UPONOR	1,2
SM 05	SEE PLANS	-5	10	5	3	SEE PLANS	123	93	35	163	300	28.2	10	5/8	6	16.8	UPONOR	1,2
SM 06	SEE PLANS	-5	10	5	3	SEE PLANS	123	93	35	163	300	25.8	8	5/8	6	13.5	UPONOR	1,2
SM 04	SEE PLANS	-5	10	5	3	SEE PLANS	123	93	35	163	300	26.3	8	5/8	6	13.7	UPONOR	1,2

MECHANICAL NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. MANUFACTURER SUBMITTAL TO PROVIDE LENGTH, GPM, HEAD LOSS AND PRESSURE DROP FOR EACH INDIVIDUAL CIRCUIT.

GENERAL NOTES:

A. REFER TO MEDICAL GAS SCHEMATIC FOR ADDITIONAL INFORMATION.

B. REFER TO UNDERFLOOR PLUMBING PLANS FOR ADDITIONAL UTILITY INFORMATION AS THEY PASS THROUGH THE OUTSIDE WALL.

C. ALL LOW VOLTAGE WIRING ASSOCIATED WITH MEDICAL GAS SYSTEMS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR.

KEY NOTES:

1. MAINTAIN AT LEAST 48" OF BURY DEPTH ALONG ENTIRE ROUTE.
2. BULK OXYGEN SYSTEM BY OTHERS. COORDINATE 2" OXYGEN RISER LOCATION WITH BULK OXYGEN VENDOR. PROVIDE AUXILIARY CONNECTION WITH SHUTOFF VALVE AND SOURCE VALVE ON RISER.
3. ROUTE MASTER ALARM WIRING FROM BULK OXYGEN SYSTEM TO EACH MASTER ALARM PANEL IN THE BUILDING. THERE WILL BE (4) PAIRS OF WIRE TO EACH MASTER ALARM PANEL FOR A TOTAL OF (8) PAIR. WIRING TO BE INSTALLED IN CONDUIT PROVIDED BY THE ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL SITE PLAN FOR CONDUIT LOCATION.
4. PROVIDE HYDRONIC SNOW MELT SYSTEM TO COVER THE ZONE INDICATED. ZONE 1 IS APPROXIMATELY 1,500 SQUARE FEET. SYSTEM SIZED AT 163 BTUH/SQ FT.
5. PROVIDE HYDRONIC SNOW MELT SYSTEM TO COVER THE ZONE INDICATED. ZONE 2 IS APPROXIMATELY 1,500 SQUARE FEET. SYSTEM SIZED AT 163 BTUH/SQ FT.
6. 8' - 0" DIAMETER 25,000 GALLON UNDERGROUND FUEL TANK.
7. 18,000 GALLON UNDERGROUND PROPANE TANK.
8. 3" FUEL OIL SUPPLY AND 2" FUEL OIL RETURN IN CONTAINMENT PIPE.
9. 4" PROPANE AIR PIPING UNDERGROUND TO GAS UTILITY METERS.
10. NATURAL GAS SERVICE PIPING, BY UTILITY.
11. PROVIDE EPOXY COATED CAST IRON FOR ALL GREASE WASTE INSIDE OF THIS OUTLINE.
12. PROVIDE HYDRONIC SNOW MELT SYSTEM TO COVER THE ZONE INDICATED. ZONE 3 IS APPROXIMATELY 1,100 SQUARE FEET. SYSTEM SIZED AT 163 BTUH/SQ FT.
13. PROVIDE HYDRONIC SNOW MELT SYSTEM TO COVER THE ZONE INDICATED. ZONE 4 IS APPROXIMATELY 1,400 SQUARE FEET. SYSTEM SIZED AT 163 BTUH/SQ FT.
14. PROVIDE HYDRONIC SNOW MELT SYSTEM TO COVER THE ZONE INDICATED. ZONE 5 IS APPROXIMATELY 1,100 SQUARE FEET. SYSTEM SIZED AT 163 BTUH/SQ FT.
15. PROVIDE HYDRONIC SNOW MELT SYSTEM TO COVER THE ZONE INDICATED. ZONE 6 IS APPROXIMATELY 2,900 SQUARE FEET. SYSTEM SIZED AT 163 BTUH/SQ FT.
16. SNOWMELT YARD MANIFOLD.
17. PROVIDE ONE (1) MOISTURE SENSOR FOR EACH SNOW MELT ZONE.
18. REFER TO CIVIL DRAWINGS FOR BOARD INSULATION SPECIFICATION AND PAVING SYSTEM DETAIL.
19. SNOW MELT MANUFACTURER TO PROVIDE COMPLETE ZONING PLANS FOR REVIEW AND APPROVAL BY ENGINEER. COORDINATE SIZE OF WALL SLEEVES THROUGH EXTERIOR WALL AND SEAL AROUND ALL TUBING/PIPING PENETRATIONS AS REQUIRED TO PROVIDE WATERTIGHT SEAL.
20. FUEL OIL TANK VENT.

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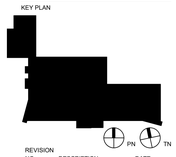
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
MECHANICAL SITE PLAN

SHEET NO.
M1.00

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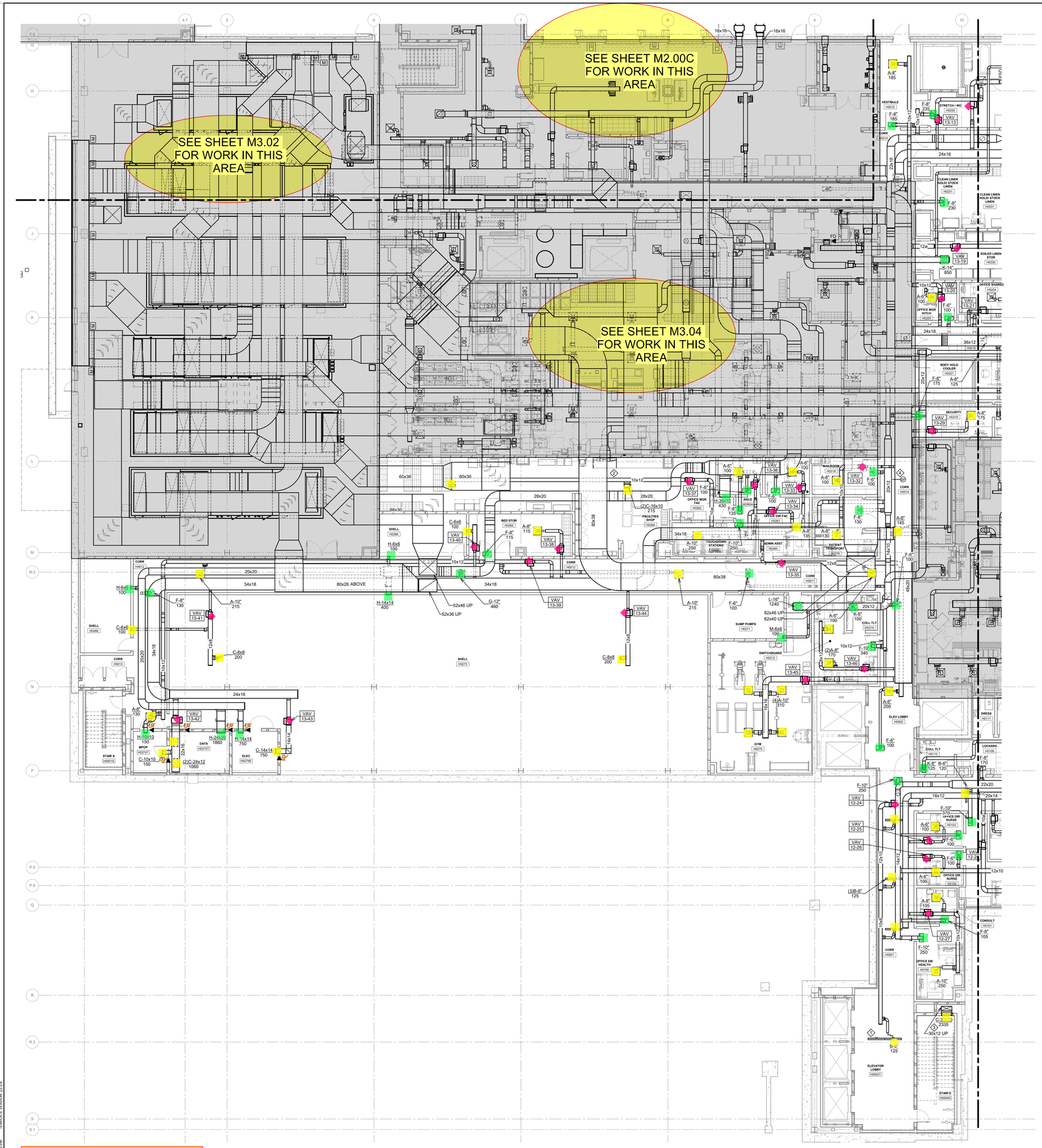

1 HVAC PLAN - LEVEL 00 - WEST WING
1/8" = 1'-0"

GENERAL NOTES:

A. EXACT LOCATION/ELEVATION FOR EQUIPMENT VENTING CONNECTIONS SHALL BE VERIFIED WITH THE SHOP DRAWINGS THAT HAVE BEEN STAMPED FOR APPROVAL. MARK ROUGH-IN LOCATIONS FOR COORDINATION WITH OTHER AFFECTED TRADES PRIOR TO ANY INSTALLATION EFFORTS.

B. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. PROVIDE 4' LINEAR DIFFUSER TO MATCH LENGTH OF THE LIGHTS. PROVIDE WITH METAL BLANK OFF PANEL.
2. PROVIDE ROBOVENT VENTBOSS SERIES S350 WALL MOUNT CANOPY WELDING HOOD.
3. INSTALL GRILLE 10'-6" ABOVE FINISHED FLOOR.
4. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 13 SUPPLY FAN CONTROL.

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Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
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SHEET TITLE
HVAC PLAN - LEVEL 00 - WEST WING

SHEET NO.
M2.00A

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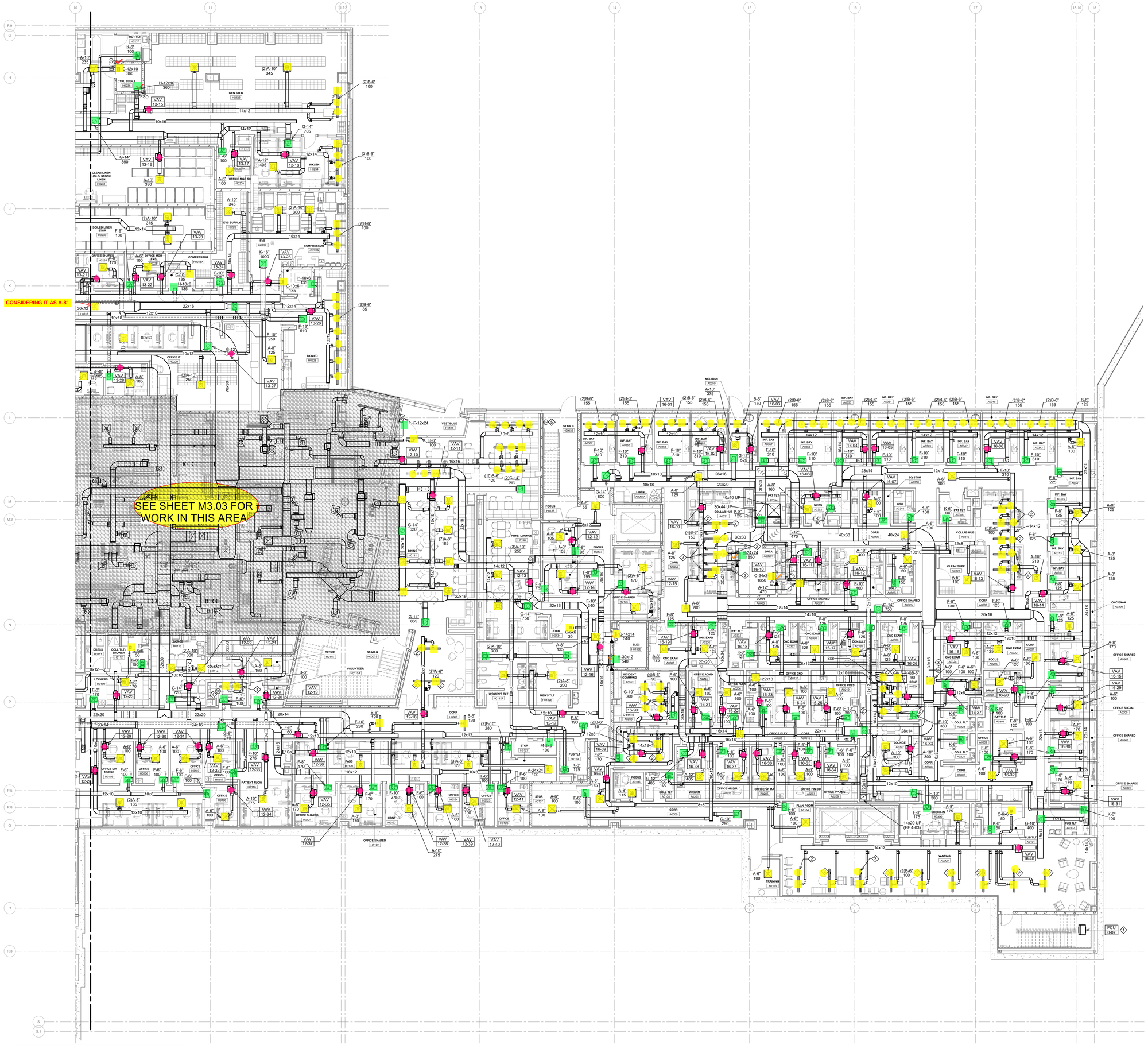

1 HVAC PLAN - LEVEL 00 - EAST WING
1/8" = 1'-0"

GENERAL NOTES:

A. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

B. PROVIDE REMOTE BALANCING DAMPER FOR ALL GRILLES AND DIFFUSERS ABOVE NON-ACCESSIBLE CEILINGS.

KEY NOTES:

1. HANG FAN COIL UNIT FROM MID STAIR LANDING.
2. PROVIDE 2' LINEAR DIFFUSER TO MATCH LENGTH OF THE LIGHTS. PROVIDE WITH METAL BLANK OFF PANEL.
3. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 16 SUPPLY FAN CONTROL.
4. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 12 SUPPLY FAN CONTROL.
5. PROVIDE STATIC PRESSURE SENSOR FOR AHU 19 STAIR PRESSURIZATION SUPPLY FAN CONTROL.

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50 SOUTH SIXTH STREET, SUITE 1100
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Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26146.000

DATE
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SHEET TITLE
HVAC PLAN - LEVEL 00 - EAST WING

SHEET NO.
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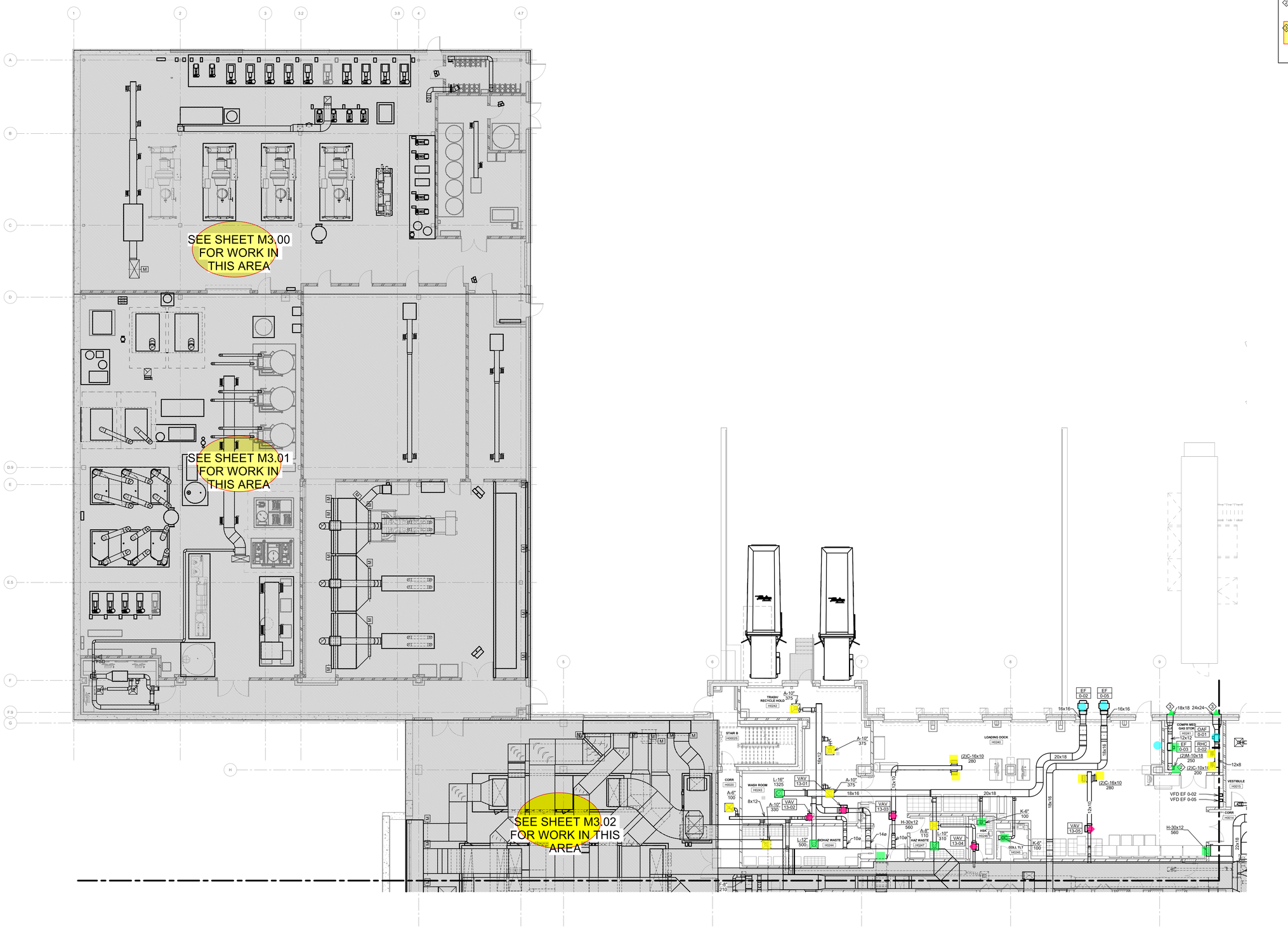
GENERAL NOTES:

A. EXACT LOCATION/ELEVATION FOR EQUIPMENT VENTING CONNECTIONS SHALL BE VERIFIED WITH THE SHOP DRAWINGS THAT HAVE BEEN STAMPED FOR APPROVAL. MARK ROUGH-IN LOCATIONS FOR COORDINATION WITH OTHER AFFECTED TRADES PRIOR TO ANY INSTALLATION EFFORTS.

B. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. POSITIVE PRESSURE EXHAUST DUCTWORK.
2. ROUTE 12x12 EXHAUST DUCT DOWN FROM EXHAUST FAN TO FLOOR EXPOSED ON WALL IN COMPRESSED GAS ROOM. MOUNT BOTTOM OF LOW GRILLE 12" ABOVE FINISHED FLOOR. MOUNT BOTTOM OF TOP GRILLE AT 96" ABOVE FINISHED FLOOR.
3. CONNECT DUCTWORK TO LOUVER. PROVIDE 3 FOOT DEEP PLENUM SLOPED TO TOWARDS LOUVER. PROVIDE BIRD SCREEN. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR LOUVER LOCATION.



1 HVAC PLAN - LEVEL 00 - CUP
1/8" = 1'-0"

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN

REVISION
NO. DESCRIPTION DATE

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26146.000

DATE
09/22/2025

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SHEET TITLE
HVAC PLAN - LEVEL 00 - CUP

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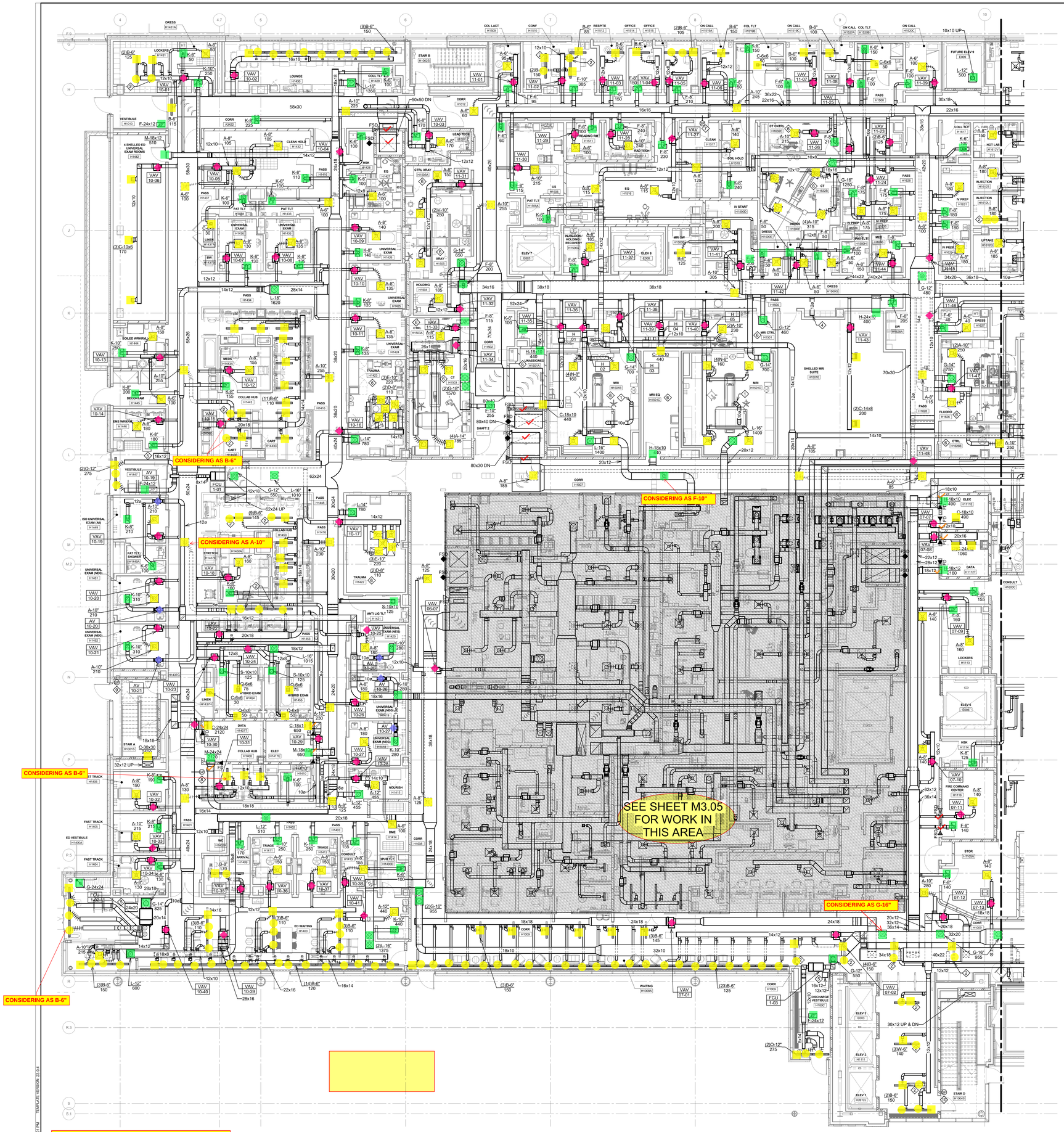

1 HVAC PLAN - LEVEL 01 - WEST WING
1/8" = 1'-0"

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B. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. 10" QUENCH VENT. ROUTE FROM MRI MAGNET UP TO FLOOR ABOVE.
2. PROVIDE 2' LINEAR DIFFUSER TO MATCH LENGTH OF THE LIGHTS. PROVIDE WITH METAL BLANK OFF PANEL.
3. PROVIDE 4' LINEAR DIFFUSER TO MATCH LENGTH OF THE LIGHTS. PROVIDE WITH METAL BLANK OFF PANEL.
4. CAP FOR FUTURE USE.
5. PROVIDE TRANSFER DUCT ABOVE CEILING.
6. PARTIALLY DEFERRED AREA OF WORK. FURTHER DEVELOPMENT OF THIS AREA WILL BE PROVIDED AS A FUTURE BULLETIN, ONCE SITE SPECIFIC VENDOR DRAWINGS FOR ARCHITECTURALLY SIGNIFICANT EQUIPMENT ARE OBTAINED, INCLUDING BUT NOT LIMITED TO IMAGING MODALITIES, SURGICAL BOOMS, AND OR INTEGRATION SYSTEMS INFORMATION. INFORMATION CURRENTLY PROVIDED IS FOR PRICING ONLY AND IS NOT FOR CONSTRUCTION.
7. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 11 SUPPLY FAN CONTROL.
8. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 10 SUPPLY FAN CONTROL.
9. PROVIDE STATIC PRESSURE SENSOR FOR AHU 17 STAIR PRESSURIZATION SUPPLY FAN CONTROL.
10. PROVIDE STATIC PRESSURE SENSOR FOR AHU 18 STAIR PRESSURIZATION SUPPLY FAN CONTROL.

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OWNER
HEALTHPARTNERS
3000 CURVE CREST BLVD
STILLWATER, MN 55082

OWNER'S REPRESENTATIVE
CONCORD GROUP
1000 NORTH WATER STREET SUITE 1550
MILWAUKEE, WI 53202

GENERAL CONTRACTOR
KRAUS-ANDERSON
501 SOUTH 8TH STREET
MINNEAPOLIS, MN 55404

ARCHITECT OF RECORD
HKS, INC.
125 SOUTH CLARK STREET, SUITE 1100
CHICAGO, IL 60603

ASSOCIATE ARCHITECT
BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 0424-126-0001-00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
2550 UNIVERSITY AVE W SUITE 423S
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CIVIL ENGINEER/LANDSCAPE
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7200 HEMLOCK LANE, SUITE 300
MAPLE GROVE, MN 55369

MEDICAL EQUIPMENT
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12755 HIGHWAY 55, SUITE 100
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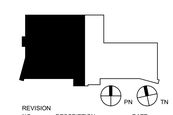
3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
HVAC PLAN - LEVEL 01 - WEST WING

SHEET NO.
M2.01A

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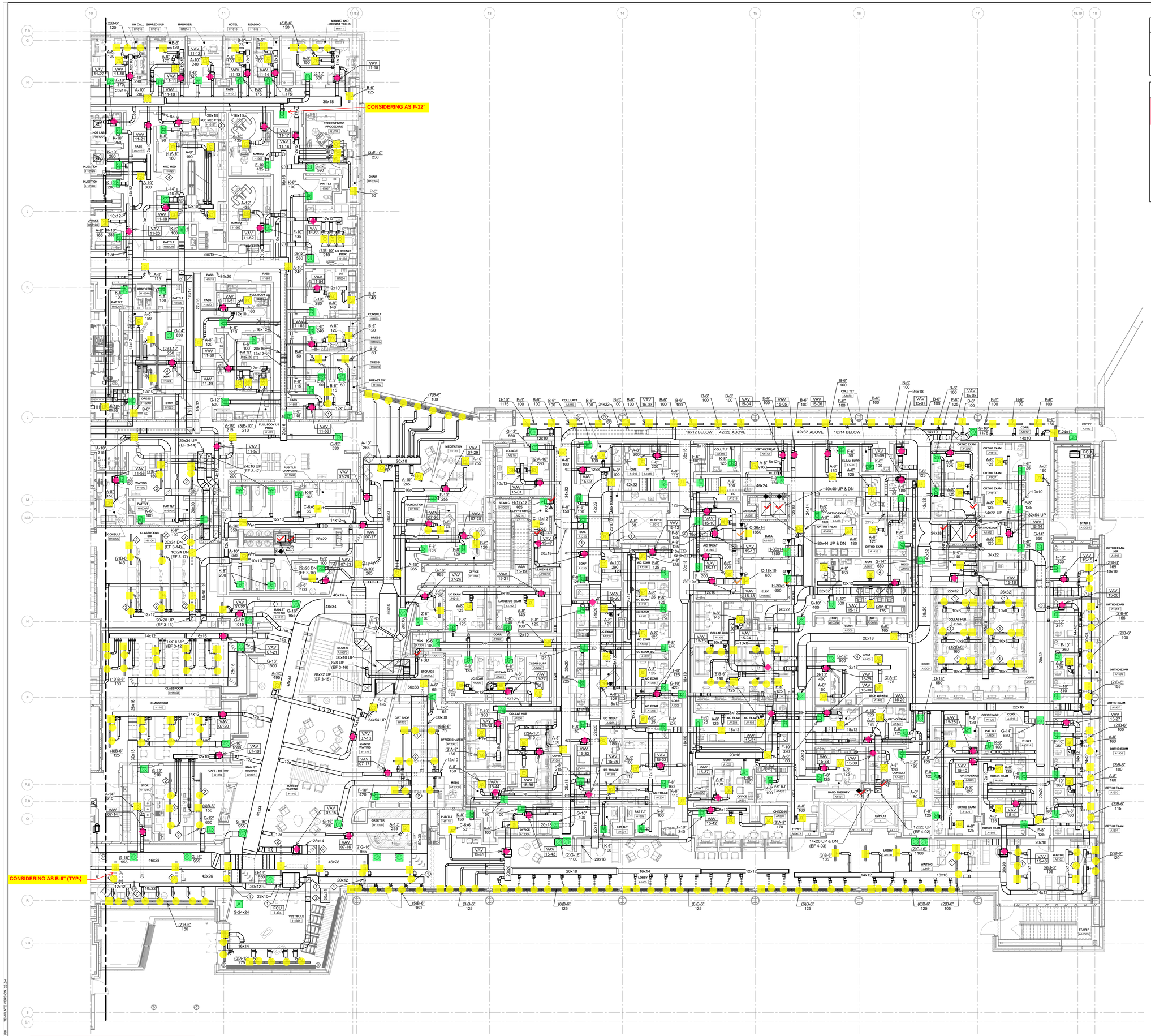

1 HVAC PLAN - LEVEL 01 - EAST WING
1/8" = 1'-0"

GENERAL NOTES:

A. EXACT LOCATION/ELEVATION FOR EQUIPMENT VENTING CONNECTIONS SHALL BE VERIFIED WITH THE SHOP DRAWINGS THAT HAVE BEEN STAMPED FOR APPROVAL. MARK ROUGH-IN LOCATIONS FOR COORDINATION WITH OTHER AFFECTED TRADES PRIOR TO ANY INSTALLATION EFFORTS.

B. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. PROVIDE 2' LINEAR DIFFUSER TO MATCH LENGTH OF THE LIGHTS. PROVIDE WITH METAL BLANK OFF PANEL.
2. PROVIDE 4' LINEAR DIFFUSER TO MATCH LENGTH OF THE LIGHTS. PROVIDE WITH METAL BLANK OFF PANEL.
3. PROVIDE TRANSFER DUCT ABOVE CEILING.
4. PARTIALLY DEFERRED AREA OF WORK. FURTHER DEVELOPMENT OF THIS AREA WILL BE PROVIDED AS A FUTURE BULLETIN. ONCE SITE SPECIFIC VENDOR DRAWINGS FOR ARCHITECTURALLY SIGNIFICANT EQUIPMENT ARE OBTAINED, INCLUDING BUT NOT LIMITED TO IMAGING MODALITIES, SURGICAL BOOMS, AND OR INTEGRATION SYSTEMS INFORMATION. INFORMATION CURRENTLY PROVIDED IS FOR PRICING ONLY AND IS NOT FOR CONSTRUCTION.
5. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 15 SUPPLY FAN CONTROL.
6. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 07 SUPPLY FAN CONTROL.

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3000 CURVE CREST BLVD
STILLWATER, MN 55082

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BWBR
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DUNHAM ASSOCIATES DUNHAM PROJECT # 0424-126-001-00
50 SOUTH SIXTH STREET, SUITE 1100
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STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
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VDA, INC.
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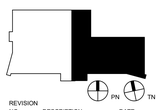
Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
HVAC PLAN - LEVEL 01 - EAST WING

SHEET NO.
M2.01B

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GENERAL NOTES:

A. EXACT LOCATION/ELEVATION FOR EQUIPMENT VENTING CONNECTIONS SHALL BE VERIFIED WITH THE SHOP DRAWINGS THAT HAVE BEEN STAMPED FOR APPROVAL. MARK ROUGH-IN LOCATIONS FOR COORDINATION WITH OTHER AFFECTED TRADES PRIOR TO ANY INSTALLATION EFFORTS.

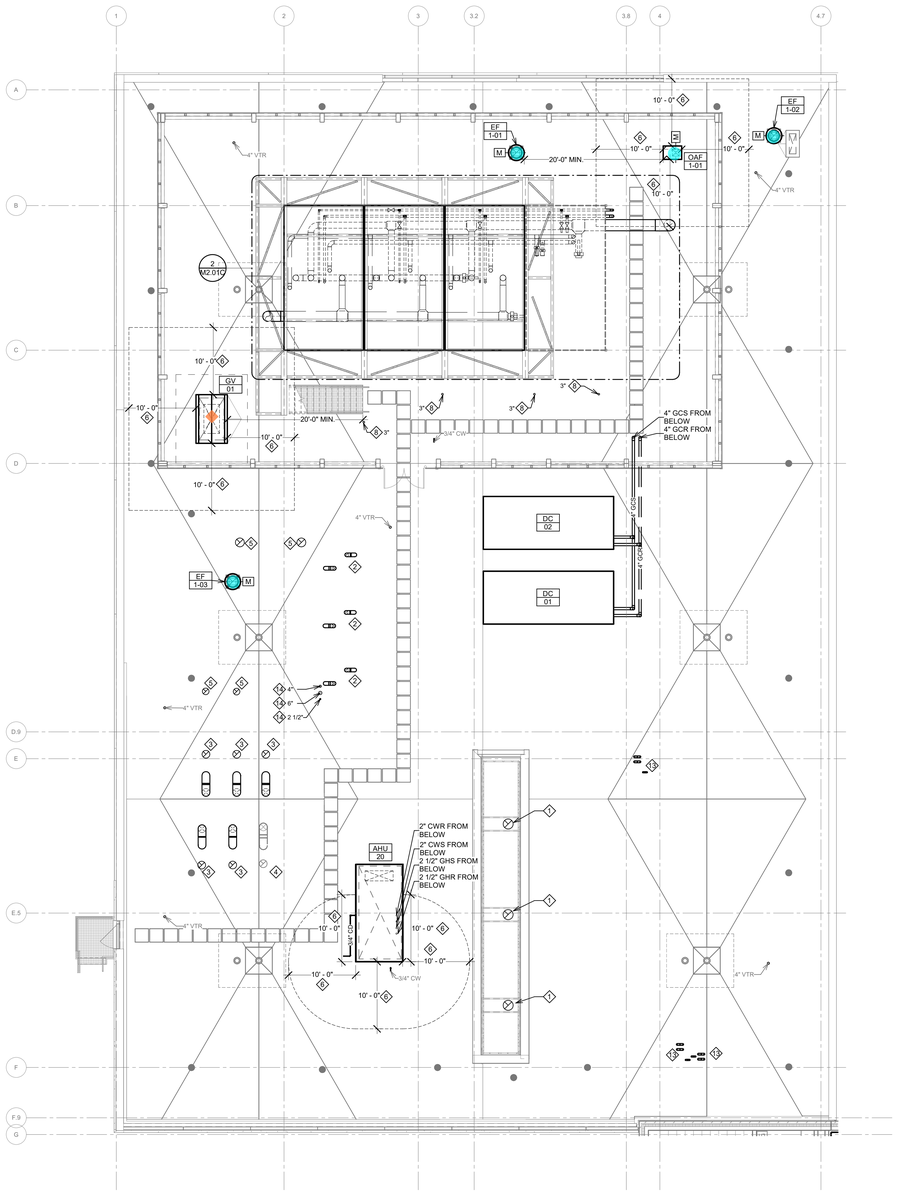
B. COORDINATE WITH PROJECT SPECIFICATION MANUAL AND DRAWING DETAILS FOR ADDITIONAL PIPING ISOLATION VALVES, STRAINERS, TEMPERATURE/PRESSURE GAUGES, BALANCING VALVES, DRAINS, VENTS, AND OTHER REQUIRED PIPING ACCESSORIES AND COMPONENTS THAT MAY NOT BE DIRECTLY INDICATED ON THIS DRAWING.

C. THE MECHANICAL CONTRACTOR WILL BE RESPONSIBLE TO SEAL AND PROTECT ALL PIPING ON SITE FROM CONSTRUCTION DEBRIS AND CONTAMINATION.

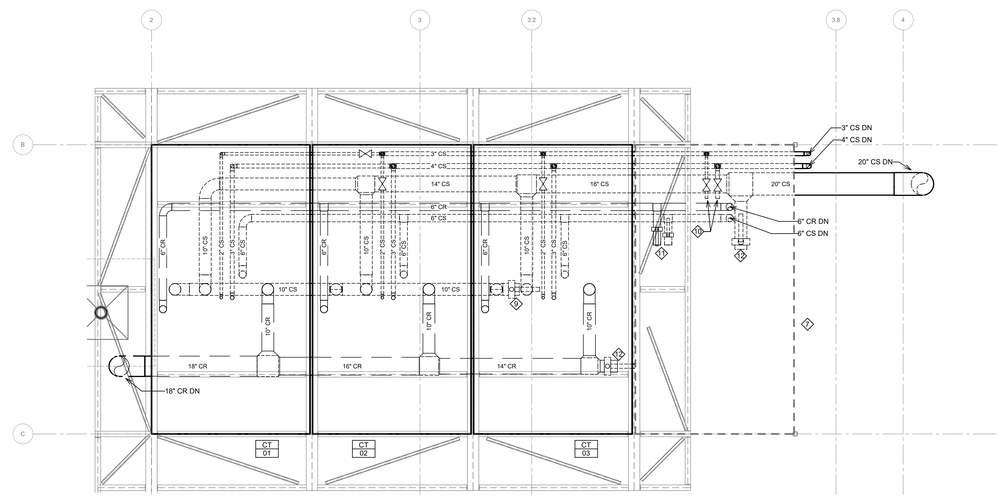
D. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING, (STACKED OR RACKED) THROUGHOUT BUILDING.

KEY NOTES:

1. 18" ENGINE EXHAUST, TERMINATE 10'-0" ABOVE ROOF DECK. PROVIDE WITH RAIN CAP.
2. WATER HEATER VENT AND OA INTAKE. TERMINATE OA INTAKE 36" ABOVE ROOF WITH GOOSENECK DOWN. TERMINATE FLUE 36" ABOVE OA INTAKE TERMINATION PER MANUFACTURER'S INSTALLATION MANUAL.
3. HEATING WATER BOILER VENT AND OA INTAKE. TERMINATE OA INTAKE 36" ABOVE ROOF WITH GOOSENECK DOWN . TERMINATE FLUE 36" ABOVE OA INTAKE TERMINATION PER MANUFACTURER'S INSTALLATION MANUAL.
4. FUTURE HEATING WATER BOILER VENT AND OA INTAKE.
5. STEAM BOILER VENT. TERMINATE 6'-0" ABOVE ROOF. PROVIDE WITH WEATHER CAP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
6. 10' CLEARANCE FOR OA INTAKE.
7. FUTURE COOLING TOWER.
8. CHILLER REFRIGERANT RELIEF VENT.
9. PROVIDE 10" CAPPED EQUALIZER TAKEOFF FOR CONNECTION TO FUTURE COOLING TOWER.
10. PROVIDE 2" CAPPED DRAIN AND 3" CAPPED OVERFLOW DRAIN TAKEOFFS FOR CONNECTION TO FUTURE COOLING TOWER.
11. PROVIDE 6" CAPPED BASIN SWEEP SUPPLY AND RETURN TAKEOFFS FOR CONNECTION TO FUTURE COOLING TOWER.
12. PROVIDE 10" CAPPED CONDENSER SUPPLY AND RETURN TAKEOFFS FOR CONNECTION TO FUTURE COOLING TOWER.
13. TWO (2) 3" FUEL OIL VENTS AND ONE (1) 2" FUEL OIL VENTS FROM DAY TANK BELOW.
14. FLASH TANK VENT. REFER TO DETAIL. TERMINATE PER MANUFACTURER'S INSTALLATION MANUAL.



1 HVAC PLAN - LEVEL 01 - CUP
1/8" = 1'-0"



2 HVAC PLAN - LEVEL 01 - CUP COOLING TOWERS ENLARGED
1/4" = 1'-0"

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HEALTHPARTNERS
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SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 0424-120-001-00
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MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
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MINNEAPOLIS, MN 55343

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3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

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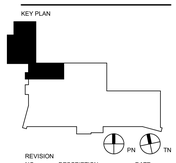
Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
MECHANICAL PLAN - LEVEL 01 - CUP

SHEET NO.
M2.01C

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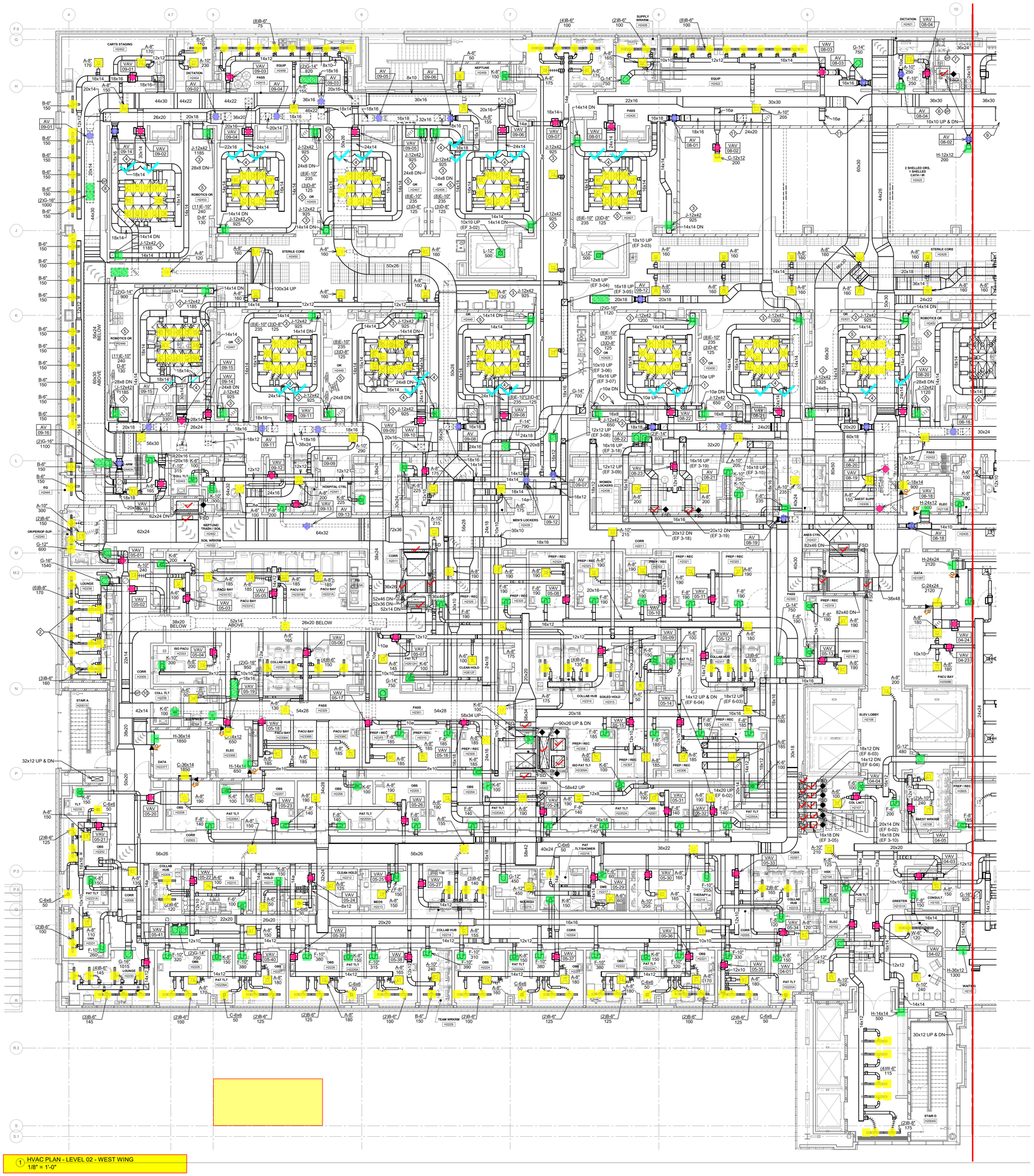
PLOT DATE: 9/18/2025 6:17:42 PM TEMPLATE VERSION 23.0.4



1 HVAC PLAN - LEVEL 02 - WEST WING
1/8" = 1'-0"

GENERAL NOTES:

A. EXACT LOCATION/ELEVATION FOR EQUIPMENT VENTING CONNECTIONS SHALL BE VERIFIED WITH THE SHOP DRAWINGS THAT HAVE BEEN STAMPED FOR APPROVAL. MARK ROUGH-IN LOCATIONS FOR COORDINATION WITH OTHER AFFECTED TRADES PRIOR TO ANY INSTALLATION EFFORTS.

B. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. 10" QUENCH VENT.
2. PROVIDE 2' LINEAR DIFFUSER TO MATCH LENGTH OF THE LIGHTS. PROVIDE WITH METAL BLANK OFF PANEL.
3. INSTALL GRILLE 12" ABOVE FINISHED FLOOR. COORDINATE ELEVATION WITH TOP OF FLOOR BASE.
4. PROVIDE ELECTRONIC REMOTE BALANCING DAMPER. LOCATE CONTROLLER ON WALL ABOVE ACCESSIBLE CEILING IN CORRIDOR.
5. PARTIALLY DEFERRED AREA OF WORK. FURTHER DEVELOPMENT OF THIS AREA WILL BE PROVIDED AS A FUTURE BULLETIN. ONCE SITE SPECIFIC VENDOR DRAWINGS FOR ARCHITECTURALLY SIGNIFICANT EQUIPMENT ARE OBTAINED, INCLUDING BUT NOT LIMITED TO IMAGING MODALITIES, SURGICAL BOOMS, AND OR INTEGRATION SYSTEMS INFORMATION. INFORMATION CURRENTLY PROVIDED IS FOR PRICING ONLY AND IS NOT FOR CONSTRUCTION.
6. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 08 SUPPLY FAN CONTROL.
7. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 08 RETURN FAN CONTROL.
8. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 09 SUPPLY FAN CONTROL.
9. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 09 RETURN FAN CONTROL.
10. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 05 SUPPLY FAN CONTROL.
11. CAP FOR FUTURE USE.

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OWNER
HEALTHPARTNERS
3000 CURVE CREST BLVD
STILLWATER, MN 55082

OWNER'S REPRESENTATIVE
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BWBR
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SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 0424-126-01-00
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MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
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RIPPE ASSOCIATES
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MINNEAPOLIS, MN 55343

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3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

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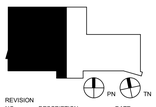
Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
HVAC PLAN - LEVEL 02 - WEST WING

SHEET NO.
M2.02A

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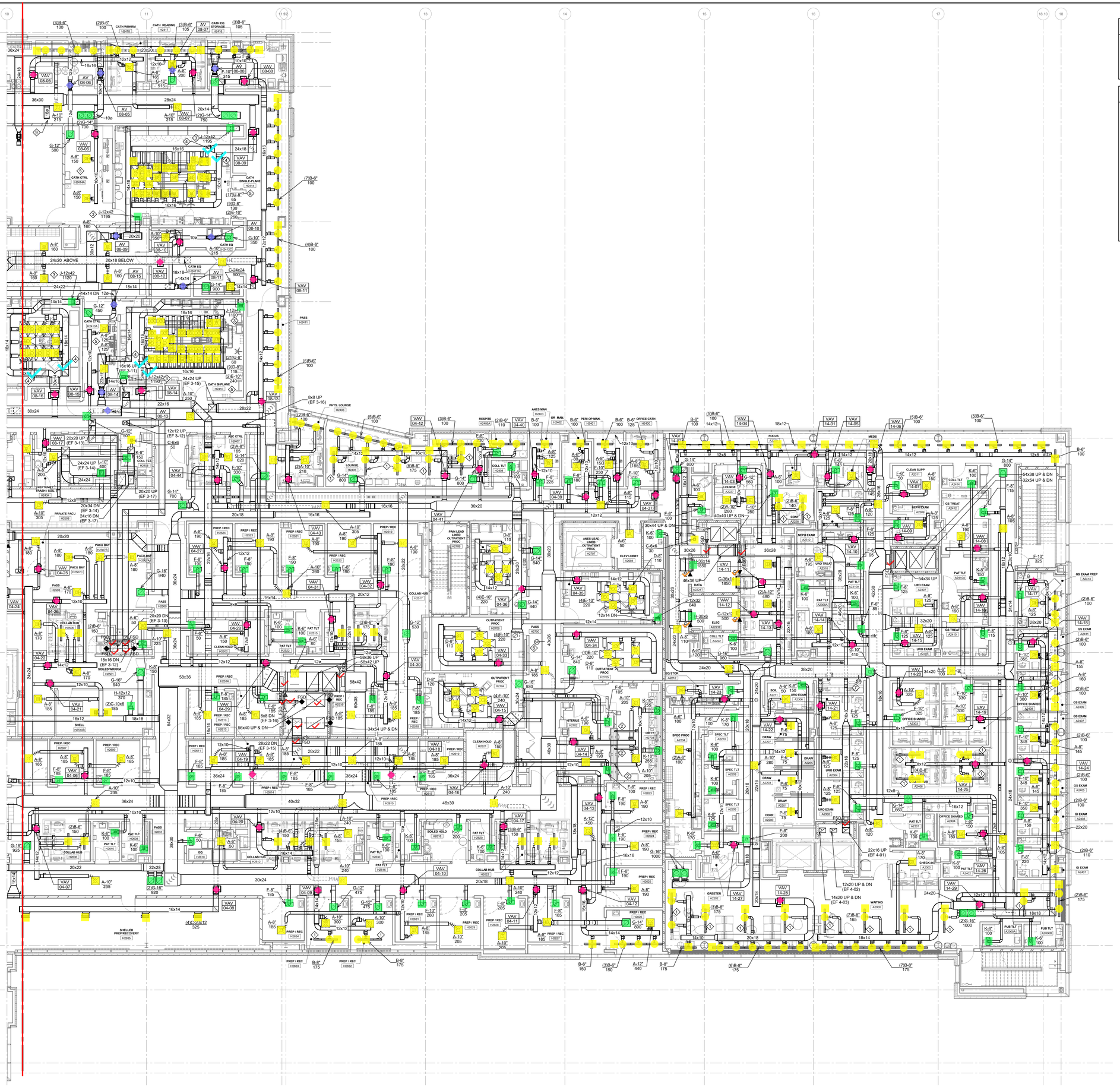
PLOT DATE: 9/18/2025 11:05:33 PM TEMPLATE VERSION: 23.0.4



1 HVAC PLAN - LEVEL 02 - EAST WING
1/8" = 1'-0"

GENERAL NOTES:

A. EXACT LOCATION/ELEVATION FOR EQUIPMENT VENTING CONNECTIONS SHALL BE VERIFIED WITH THE SHOP DRAWINGS THAT HAVE BEEN STAMPED FOR APPROVAL. MARK ROUGH-IN LOCATIONS FOR COORDINATION WITH OTHER AFFECTED TRADES PRIOR TO ANY INSTALLATION EFFORTS.

B. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. PROVIDE 2' LINEAR DIFFUSER TO MATCH LENGTH OF THE LIGHTS. PROVIDE WITH METAL BLANK OFF PANEL.
2. CONNECT 4" EXHAUST DUCT TO THE MEDIVATOR. BALANCE TO 25 CFM.
3. INSTALL GRILLE 12" ABOVE FINISHED FLOOR. COORDINATE ELEVATION WITH TOP OF FLOOR BASE.
4. PROVIDE ELECTRONIC REMOTE BALANCING DAMPER. LOCATE CONTROLLER ON WALL ABOVE ACCESSIBLE CEILING IN CORRIDOR.
5. PARTIALLY DEFERRED AREA OF WORK. FURTHER DEVELOPMENT OF THIS AREA WILL BE PROVIDED AS A FUTURE BULLETIN. ONCE SITE SPECIFIC VENDOR DRAWINGS FOR ARCHITECTURALLY SIGNIFICANT EQUIPMENT ARE OBTAINED, INCLUDING BUT NOT LIMITED TO IMAGING MODALITIES, SURGICAL BOOMS, AND OR INTEGRATION SYSTEMS INFORMATION. INFORMATION CURRENTLY PROVIDED IS FOR PRICING ONLY AND IS NOT FOR CONSTRUCTION.
6. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 04 SUPPLY FAN CONTROL.
7. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 14 SUPPLY FAN CONTROL.
8. CAP FOR FUTURE USE.

HKS
BWBR

OWNER
HEALTHPARTNERS
3000 CURVE CREST BLVD
STILLWATER, MN 55082

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MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 0420120-0101
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STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
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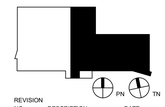

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
HVAC PLAN - LEVEL 02 - EAST WING

SHEET NO.
M2.02B

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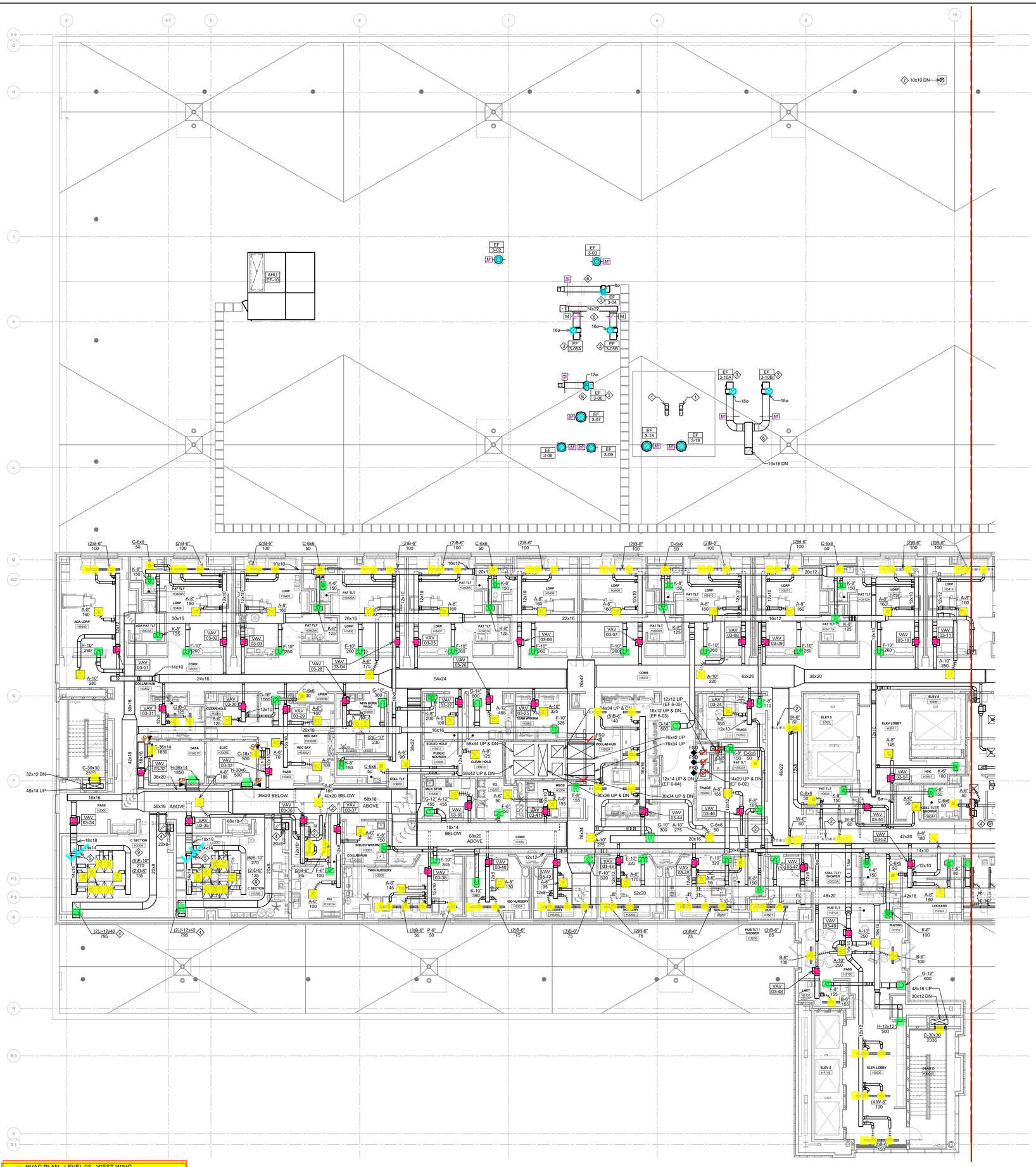
PLOT DATE: 9/18/2025 11:20:39 PM TEMPLATE VERSION: 23.0.4



GENERAL NOTES:

A. EXACT LOCATION/ELEVATION FOR EQUIPMENT VENTING CONNECTIONS SHALL BE VERIFIED WITH THE SHOP DRAWINGS THAT HAVE BEEN STAMPED FOR APPROVAL. MARK ROUGH-IN LOCATIONS FOR COORDINATION WITH OTHER AFFECTED TRADES PRIOR TO ANY INSTALLATION EFFORTS.

B. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. 10" QUENCH VENT. REFER TO MRI EQUIPMENT DRAWINGS FOR QUENCH VENT TERMINATION DETAILS.
2. PROVIDE 2' LINEAR DIFFUSER TO MATCH LENGTH OF THE LIGHTS. PROVIDE WITH METAL BLANK OFF PANEL.
3. PROVIDE STACK ON EXHAUST FAN. REFER TO DETAIL.
4. INSTALL GRILLE 12" ABOVE FINISHED FLOOR. COORDINATE ELEVATION WITH TOP OF FLOOR BASE.
5. PROVIDE REMOTE BALANCING DAMPER. LOCATE CONTROLLER ON WALL ABOVE ACCESSIBLE CEILING IN CORRIDOR.
6. PROVIDE DUCT SUPPORTS PER DETAIL.
7. PROVIDE DUCT THRU ROOF AND CAP FOR FUTURE FAN INSTALLATION.
8. PROVIDE 4' LINEAR DIFFUSER TO MATCH LENGTH OF THE LIGHTS. PROVIDE WITH METAL BLANK OFF PANEL.
9. PARTIALLY DEFERRED AREA OF WORK. FURTHER DEVELOPMENT OF THIS AREA WILL BE PROVIDED AS A FUTURE BULLETIN. ONCE SITE SPECIFIC VENDOR DRAWINGS FOR ARCHITECTURALLY SIGNIFICANT EQUIPMENT ARE OBTAINED, INCLUDING BUT NOT LIMITED TO IMAGING MODALITIES, SURGICAL BOOMS, AND OR INTEGRATION SYSTEMS INFORMATION. INFORMATION CURRENTLY PROVIDED IS FOR PRICING ONLY AND IS NOT FOR CONSTRUCTION.

1 HVAC PLAN - LEVEL 03 - WEST WING
1/8" = 1'-0"

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3000 CURVE CREST BLVD
STILLWATER, MN 55082

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GENERAL CONTRACTOR
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501 SOUTH 8TH STREET
MINNEAPOLIS, MN 55404

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN

REVISION NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
HVAC PLAN - LEVEL 03 - WEST WING

SHEET NO.
M2.03A

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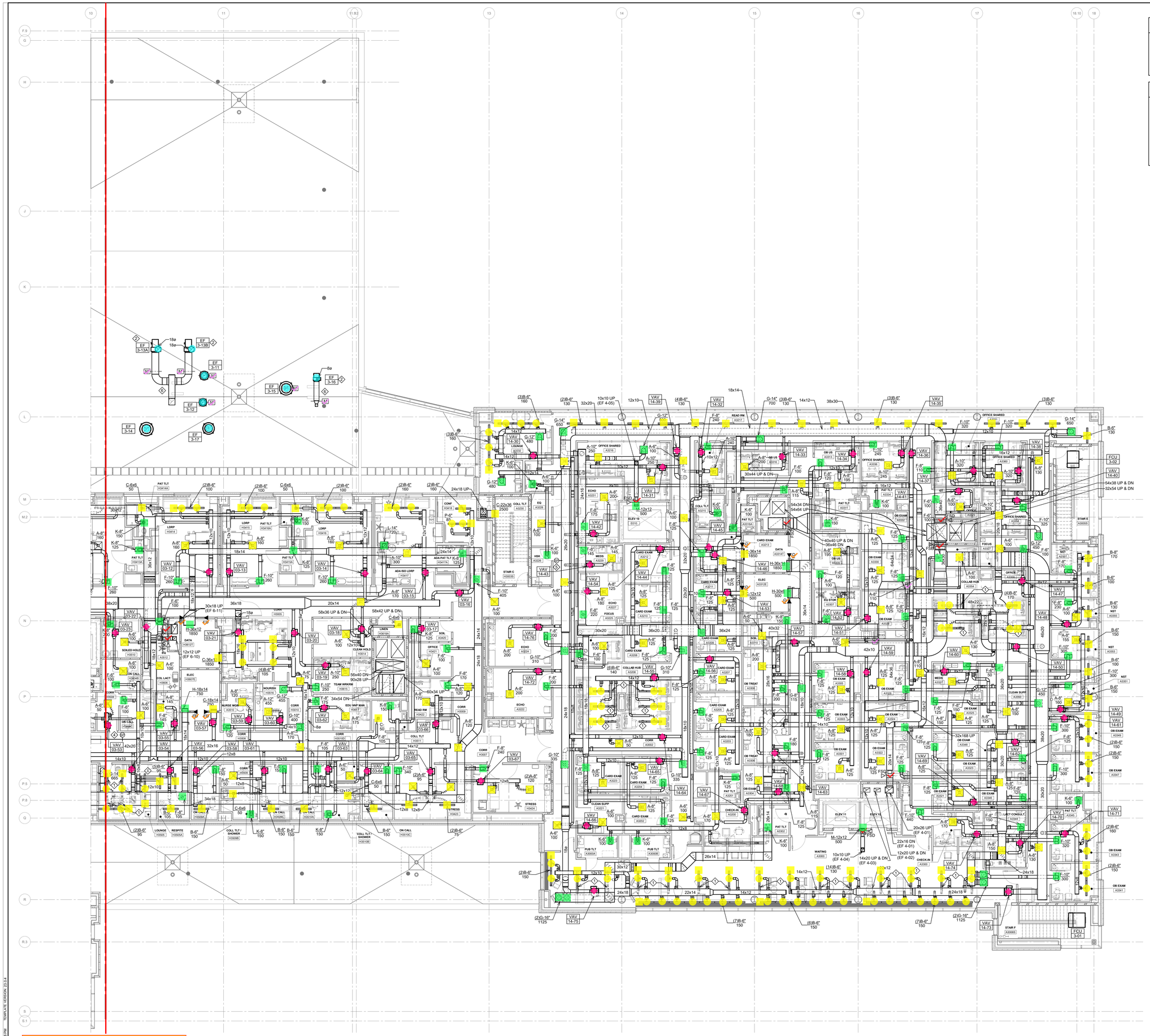

1 HVAC PLAN - LEVEL 03 - EAST WING
1/8" = 1'-0"

GENERAL NOTES:

A. EXACT LOCATION/ELEVATION FOR EQUIPMENT VENTING CONNECTIONS SHALL BE VERIFIED WITH THE SHOP DRAWINGS THAT HAVE BEEN STAMPED FOR APPROVAL. MARK ROUGH-IN LOCATIONS FOR COORDINATION WITH OTHER AFFECTED TRADES PRIOR TO ANY INSTALLATION EFFORTS.

B. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. PROVIDE 2' LINEAR DIFFUSER TO MATCH LENGTH OF THE LIGHTS. PROVIDE WITH METAL BLANK OFF PANEL.
2. PROVIDE STACK ON EXHAUST FAN. REFER TO DETAIL.
3. PROVIDE DUCT SUPPORTS PER DETAIL.
4. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 03 SUPPLY FAN CONTROL.
5. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 14 SUPPLY FAN CONTROL.

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SHEET TITLE
HVAC PLAN - LEVEL 03 - EAST WING

SHEET NO.
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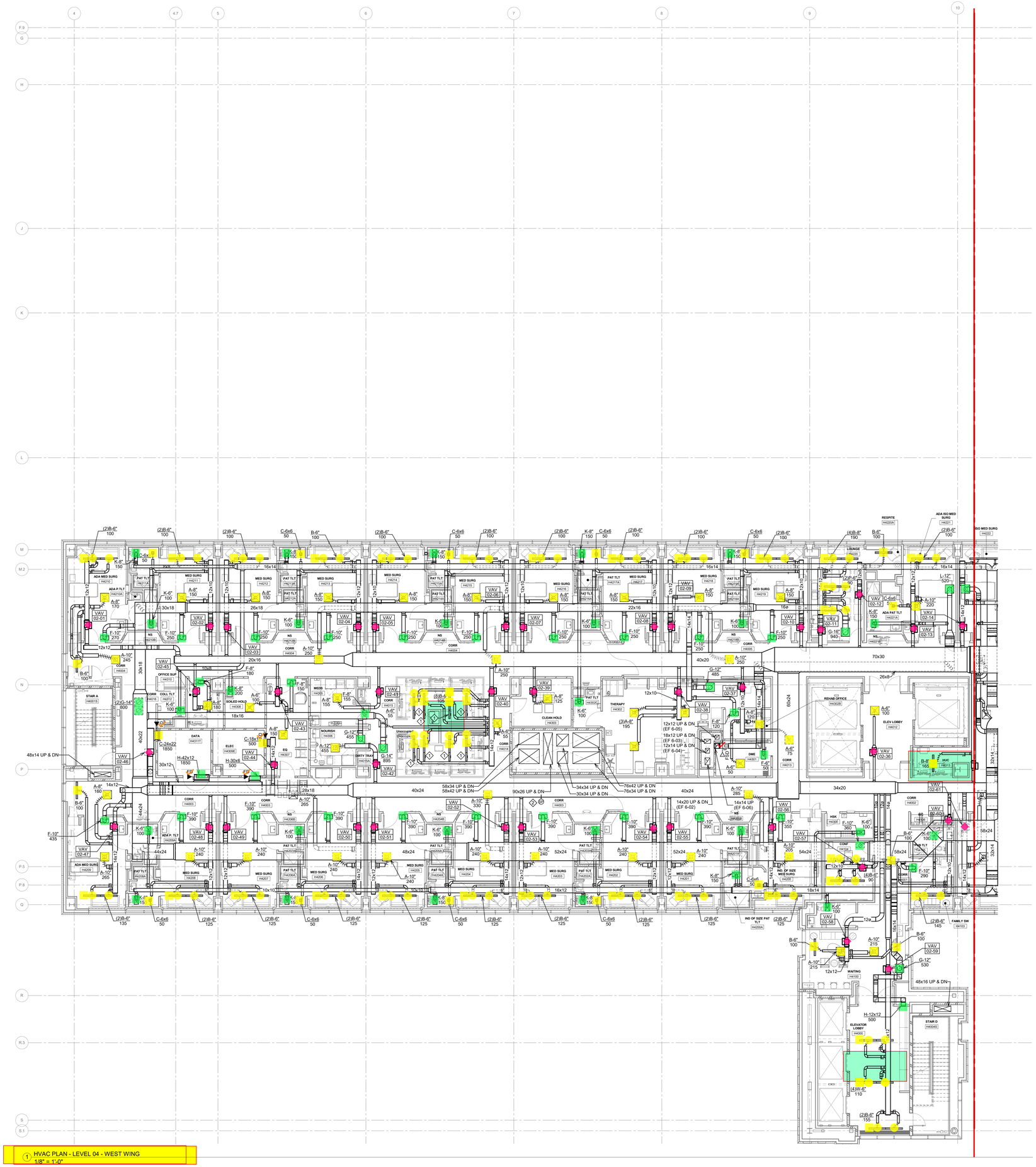

1 HVAC PLAN - LEVEL 04 - WEST WING
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GENERAL NOTES:

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B. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. PROVIDE 2' LINEAR DIFFUSER TO MATCH LENGTH OF THE LIGHTS. PROVIDE WITH METAL BLANK OFF PANEL.
2. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 02 SUPPLY FAN CONTROL.

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SHEET TITLE
HVAC PLAN - LEVEL 04 - WEST WING

SHEET NO.
M2.04A

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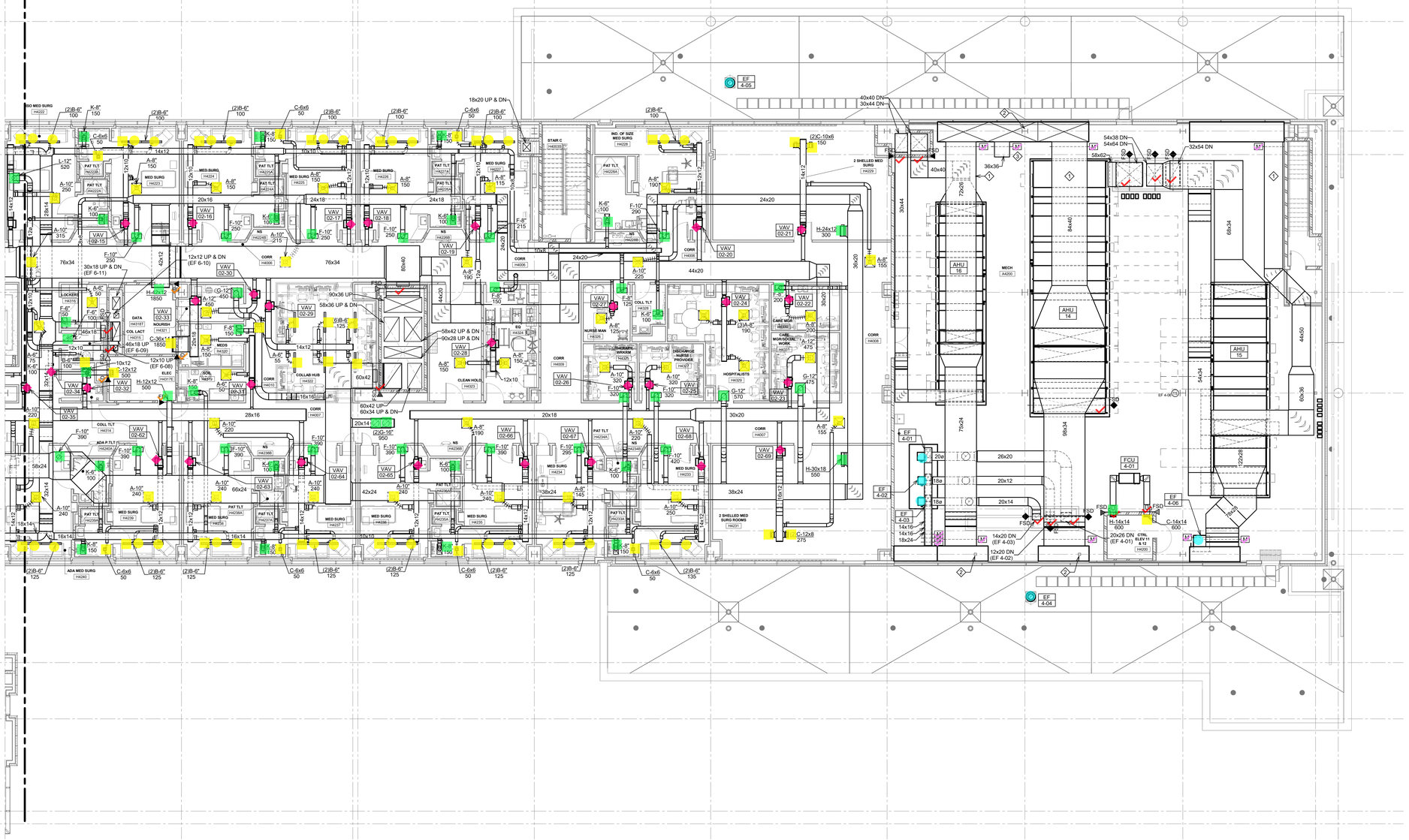

1 HVAC PLAN - LEVEL 04 - EAST WING
1/8" = 1'-0"

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B. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. PROVIDE OUTSIDE AIRFLOW MEASURING STATION.
2. COLUMN WITHIN PLENUM SHALL BE WRAPPED WITH SAME MATERIAL AS THE PLENUM TO PROVIDE THERMAL BREAK.
3. PROVIDE 36x36 OUTSIDE AIR OPENING WITH MOTORIZED DAMPER TO BE OPEN WHEN EF 4-06 IS OPERATING.

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SHEET TITLE
HVAC PLAN - LEVEL 04 - EAST WING

SHEET NO.
M2.04B

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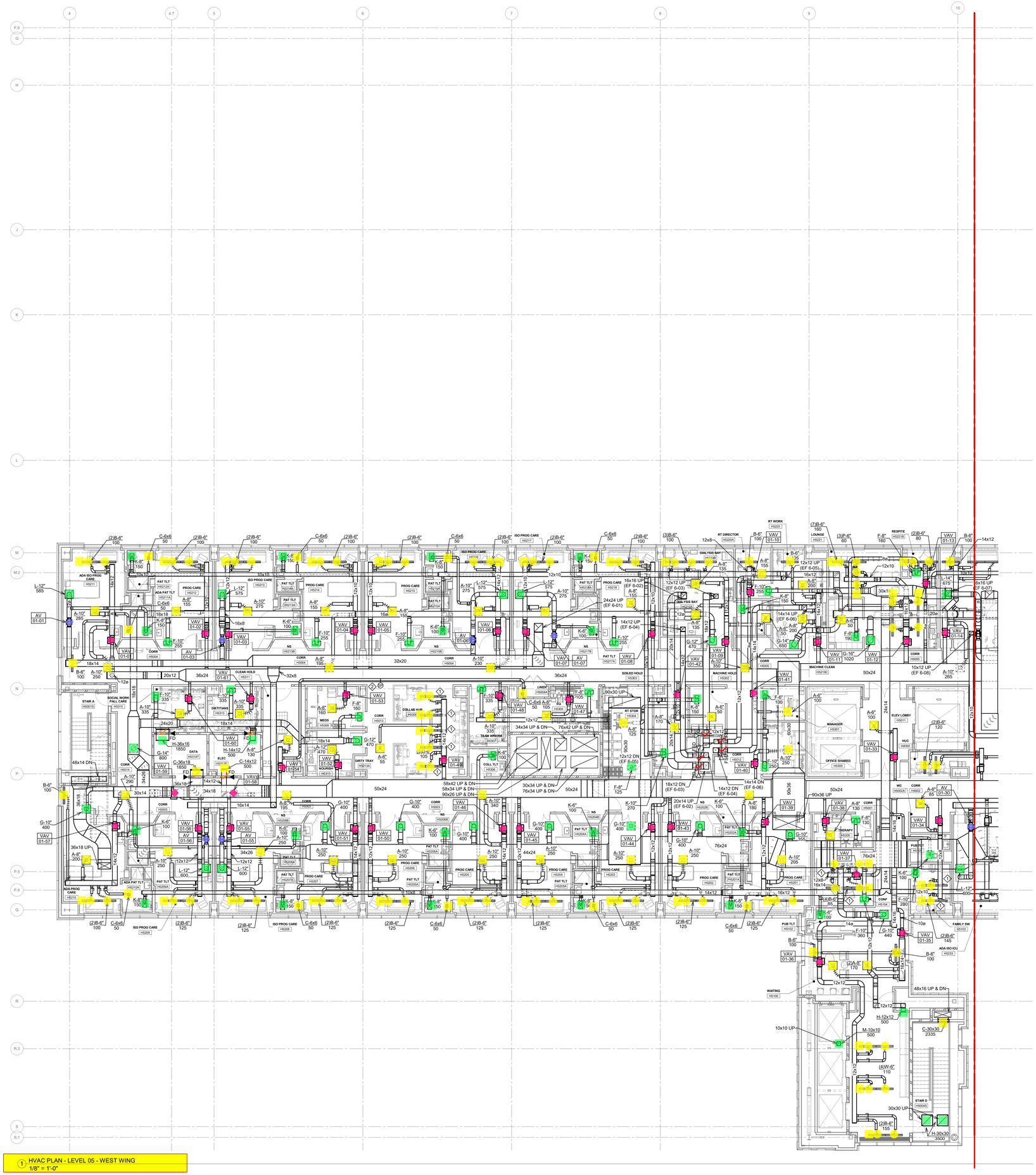

1 HVAC PLAN - LEVEL 05 - WEST WING
1/8" = 1'-0"

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B. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. PROVIDE 2' LINEAR DIFFUSER TO MATCH LENGTH OF THE LIGHTS. PROVIDE WITH METAL BLANK OFF PANEL.
2. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 01 SUPPLY FAN CONTROL.

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BWBR
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SAINT PAUL, MN 55102

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DUNHAM ASSOCIATES DUNHAM PROJECT # 5420-126-001-00
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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN

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26146.000

DATE
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SHEET TITLE
HVAC PLAN - LEVEL 05 - WEST WING

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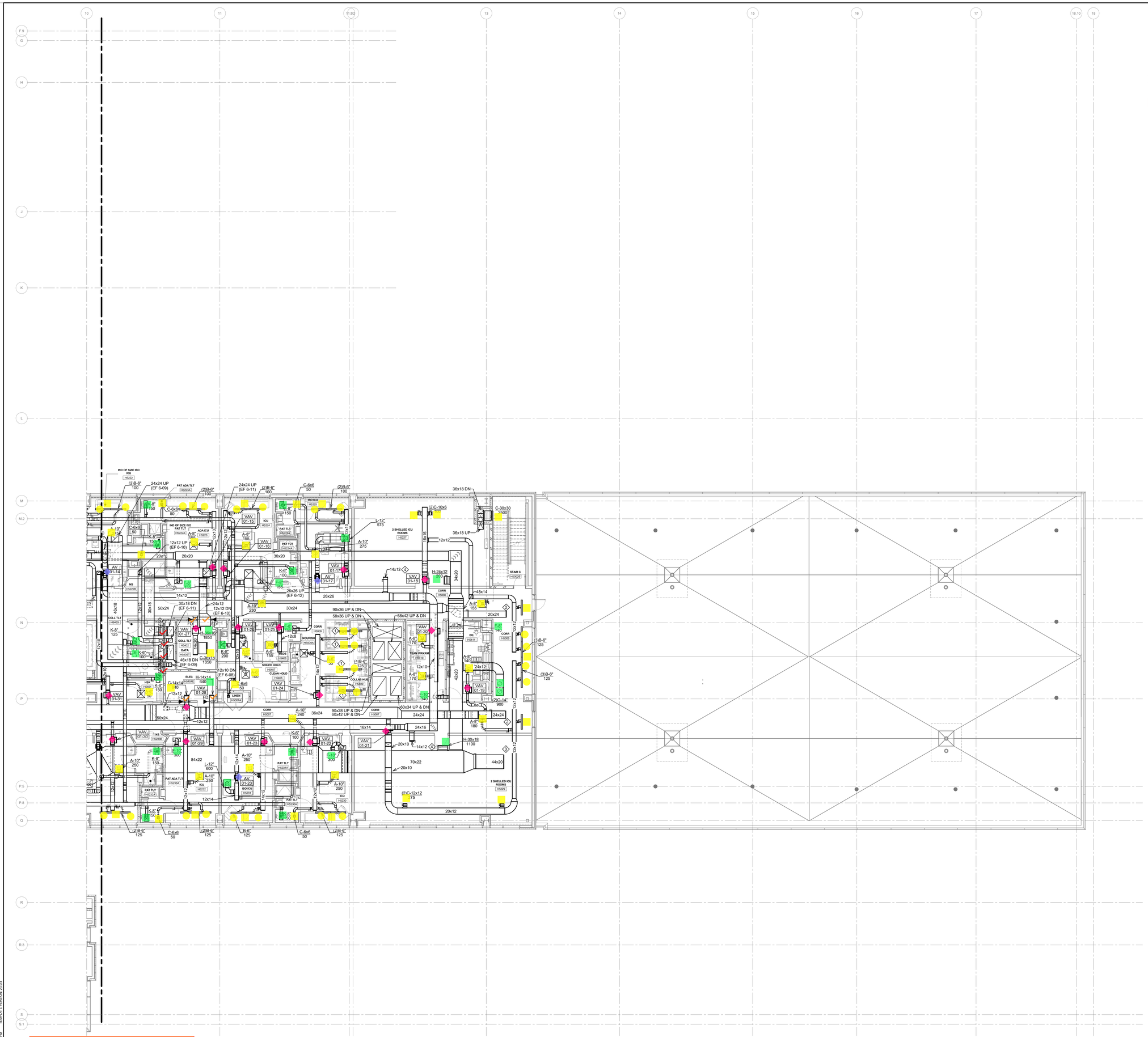

1 HVAC PLAN - LEVEL 05 - EAST WING
1/8" = 1'-0"

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B. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. PROVIDE 2' LINEAR DIFFUSER TO MATCH LENGTH OF THE LIGHTS. PROVIDE WITH METAL BLANK OFF PANEL.
2. PROVIDE SUIPPLY BRANCH SIZED FOR 3,500 CFM FOR FUTURE LEVEL 05 EXPANSION.
3. PROVIDE RETURN BRANCH SIZED FOR 7,000 CFM FOR FUTURE LEVEL 05 EXPANSION.
4. PROVIDE TAKEOFF FOR FUTURE ISO ROOM AIR VALVE.

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SHEET TITLE
HVAC PLAN - LEVEL 05 - EAST WING

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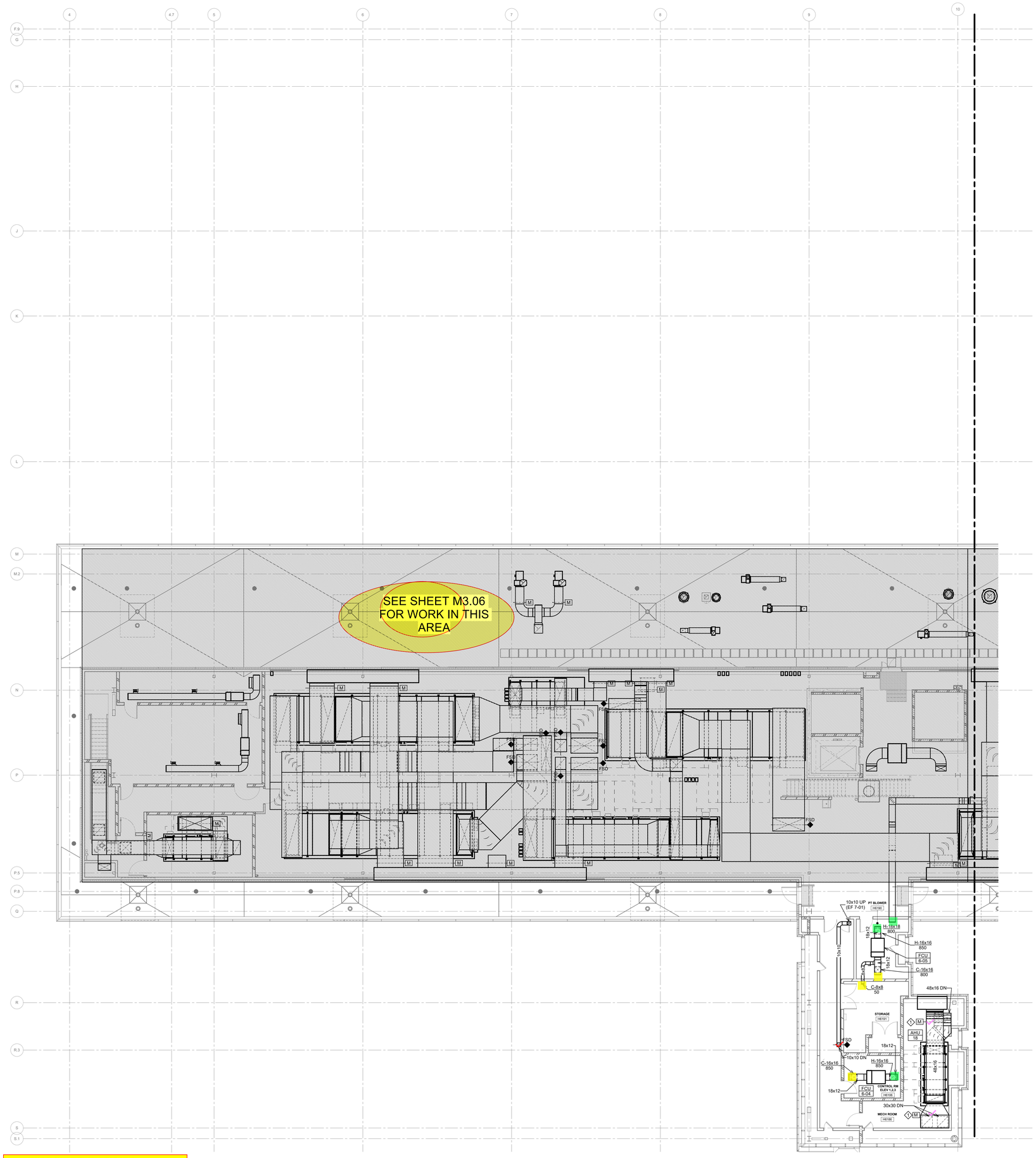

1 HVAC PLAN - LEVEL 06 - WEST WING
1/8" = 1'-0"

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B. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1 PROVIDE END SWITCH ON MOTORIZED DAMPER.

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SHEET TITLE
HVAC PLAN - LEVEL 06 - WEST WING

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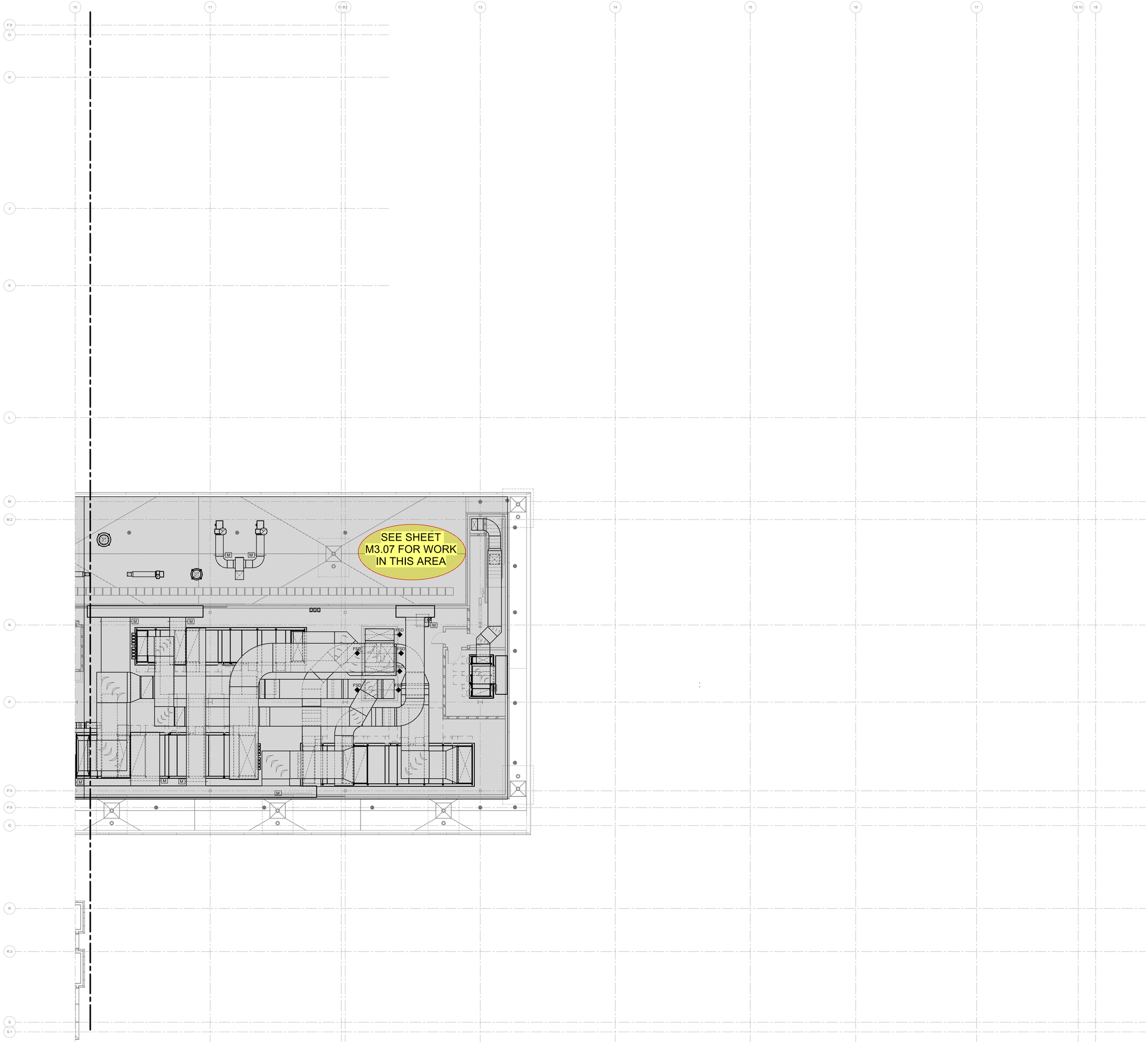

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PN TN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
HVAC PLAN - LEVEL 06 - EAST WING

SHEET NO.
M2.06B

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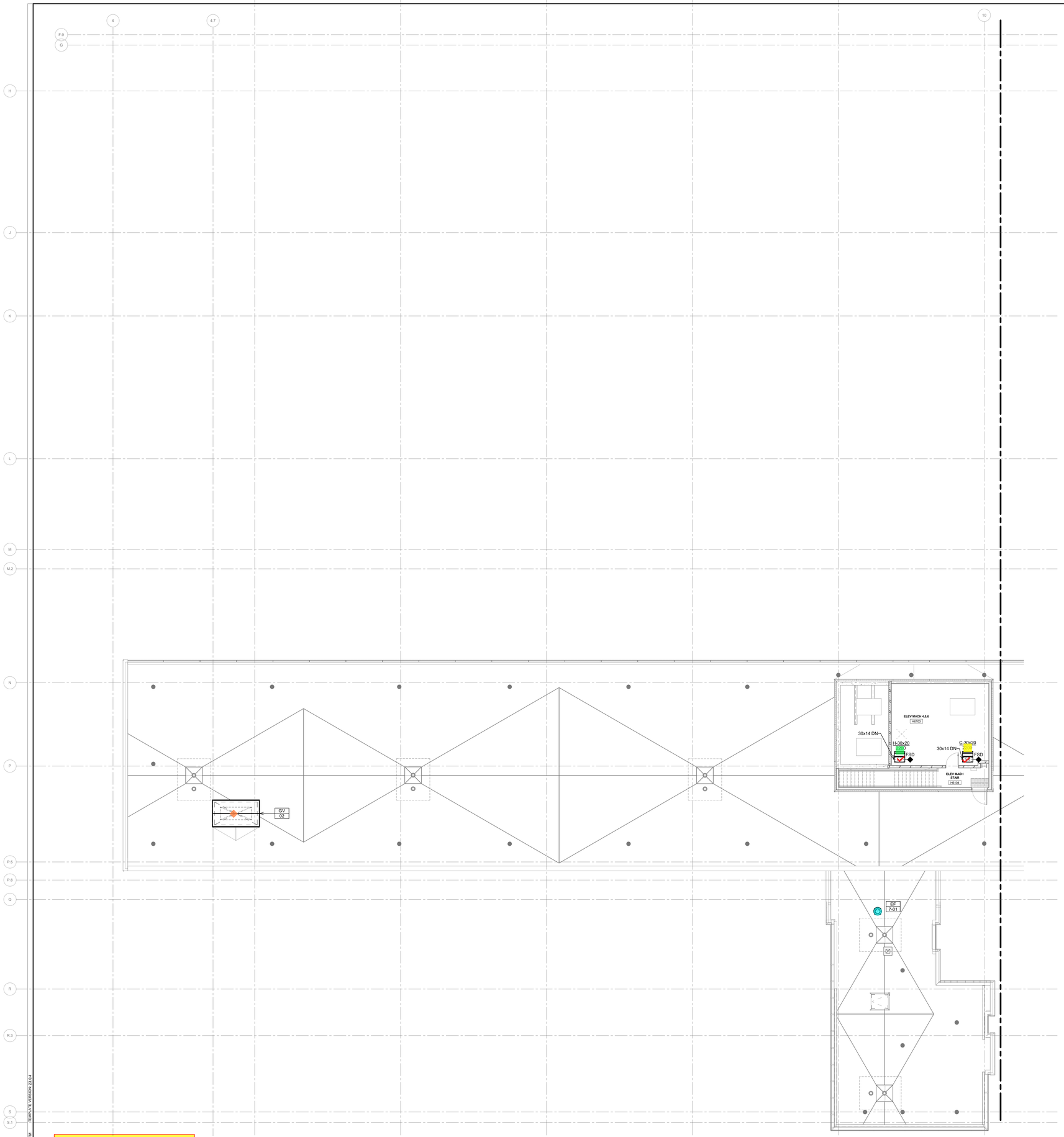
PLOT DATE: 9/18/2025 6:19:41 PM TEMPLATE VERSION: 23.0.4



1 HVAC PLAN - ROOF - WEST WING
1/8" = 1'-0"

GENERAL NOTES:

A. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

HKS
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OWNER
HEALTHPARTNERS
3000 CURVE CREST BLVD
STILLWATER, MN 55082

OWNER'S REPRESENTATIVE
CONCORD GROUP
1000 NORTH WATER STREET SUITE 1550
MILWAUKEE, WI 53202

GENERAL CONTRACTOR
KRAUS-ANDERSON
501 SOUTH 8TH STREET
MINNEAPOLIS, MN 55404

ARCHITECT OF RECORD
HKS, INC.
125 SOUTH CLARK STREET, SUITE 1100
CHICAGO, IL 60603

ASSOCIATE ARCHITECT
BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 5424-25-001-00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
2550 UNIVERSITY AVE W SUITE 423S
SAINT PAUL, MN 55114

CIVIL ENGINEER/LANDSCAPE
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7200 HEMLOCK LANE, SUITE 300
MAPLE GROVE, MN 55369

MEDICAL EQUIPMENT
IMEG CORP.
12755 HIGHWAY 55, SUITE 100
MINNEAPOLIS, MN 55441

ELEVATOR CONSULTANT
VDA, INC.
120 EAGLE ROCK AVENUE, SUITE 310
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MINNEAPOLIS, MN 55343

HealthPartners®
LAKEVIEW CAMPUS
3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN

PN TN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
HVAC PLAN - ROOF - WEST WING

SHEET NO.
M2.07A

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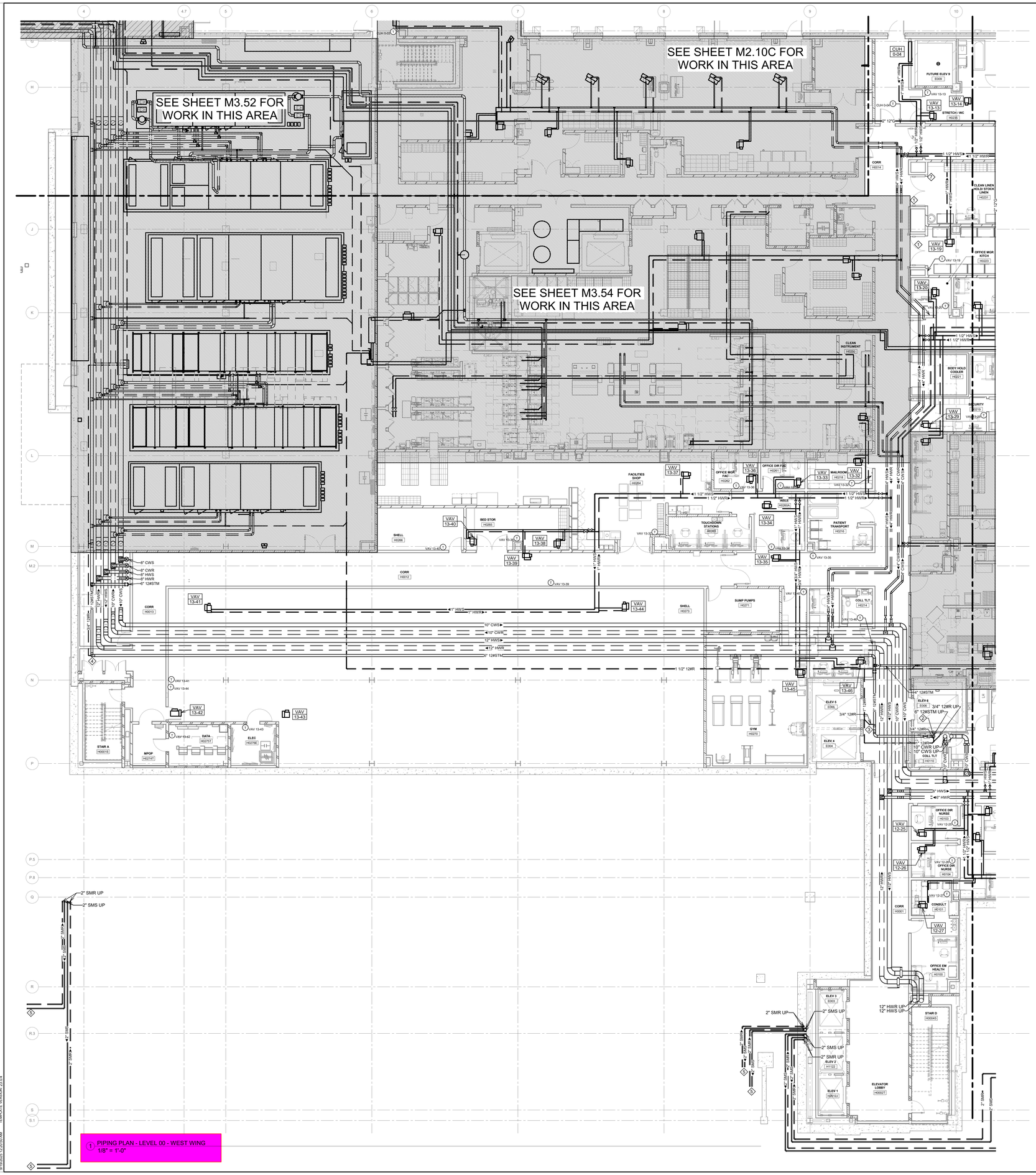

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

B. ALL HEATING WATER SUPPLY AND HEATING WATER RETURN PIPE RUN OUTS TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE ISOLATION BALL VALVES AT ALL PIPING TAKE-OFFS TO RUN OUTS SERVING TWO (2) OR MORE PIECES OF EQUIPMENT.

C. COORDINATION OF SCHEDULES WITH IMPACTED DEPARTMENTS, MAINTAINING CONSTRUCTION BOUNDARIES FOR INFECTION CONTROL AND CLEANING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BID.

D. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. PROVIDE DIFFERENTIAL PRESSURE SENSOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. NO LOCAL DISPLAY NEEDED.
2. PROVIDE STEAM TRAP AT BOTTOM OF 12# STEAM RISER. LOCATE AS HIGH AS POSSIBLE AND PIPE DISCHARGE BACK TO 12# RETURN.
3. PROVIDE STEAM TRAP AT PIPING CHANGE IN ELEVATION. LOCATE AS HIGH AS POSSIBLE AND PIPE DISCHARGE BACK TO 12# RETURN.
4. PROVIDE STEAM TRAP AT PIPING CHANGE IN ELEVATION. LOCATE AS HIGH AS POSSIBLE AND PIPE DISCHARGE TO CONDENSATE PUMP.
5. FOR CONTINUATION SEE SHEET M1.00 MECHANICAL SITE PLAN.

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Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

KEY PLAN

PN TN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
PIPING PLAN - LEVEL 00 - WEST WING

SHEET NO.
M2.10A

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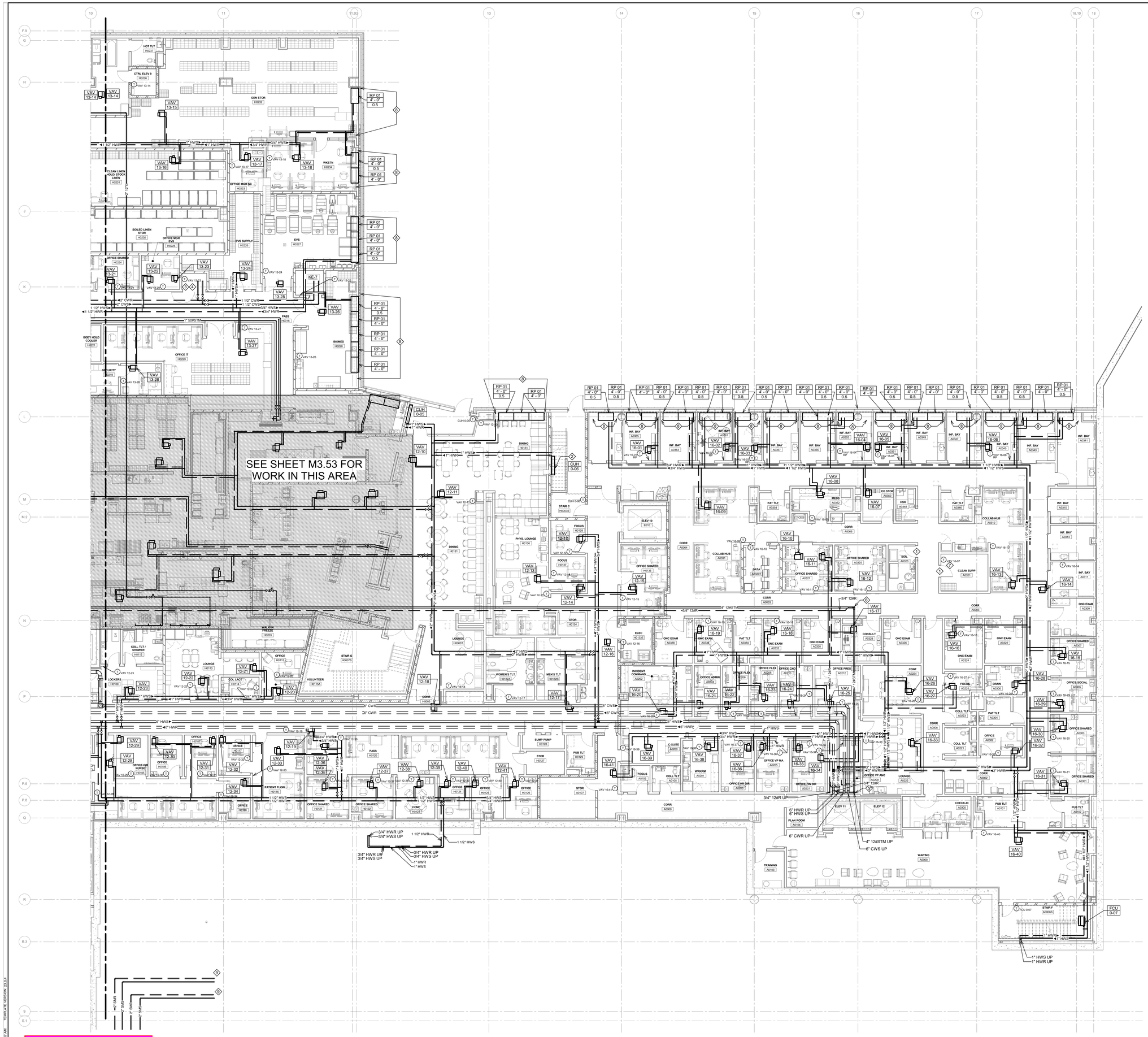

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

B. ALL HEATING WATER SUPPLY AND HEATING WATER RETURN PIPE RUN OUTS TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE ISOLATION BALL VALVES AT ALL PIPING TAKE-OFFS TO RUN OUTS SERVING TWO (2) OR MORE PIECES OF EQUIPMENT.

C. COORDINATION OF SCHEDULES WITH IMPACTED DEPARTMENTS, MAINTAINING CONSTRUCTION BOUNDARIES FOR INFECTION CONTROL AND CLEANING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BID.

D. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. PROVIDE DIFFERENTIAL PRESSURE SENSOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. NO LOCAL DISPLAY NEEDED.
2. INSTALL CABINET UNIT HEATER IN WALL UNDER THE STAIRS.
3. ROUTE CHILLED WATER SUPPLY AND RETURN PIPING TO CONDENSING UNIT SERVING BODY HOLD COOLER.
4. CONTROLS CONTRACTOR TO PROVIDE THE FOLLOWING MONITORING POINTS ON BODY HOLD COOLER:
   - COMPRESSOR STATUS
   - ROOM TEMPERATURE
   - ROOM RELATIVE HUMIDITY
5. PROVIDE STEAM TRAP AT BOTTOM OF 12# STEAM RISER. LOCATE AS HIGH AS POSSIBLE AND PIPE DISCHARGE BACK TO 12# RETURN.
6. PROVIDE STEAM TRAP AT PIPING CHANGE IN ELEVATION. LOCATE AS HIGH AS POSSIBLE AND PIPE DISCHARGE BACK TO 12# RETURN.
7. PROVIDE COMBINATION THERMOSTAT/HUMIDISTAT.
8. PROVIDE INACTIVE RADIANT PANELS TO COMPLETE WALL TO WALL FINISH. CONTRACTOR TO FIELD MEASURE LENGTH OF CEILING PLENUM. REFER TO REFLECTED CEILING PLANS FOR EXTENTS.
9. FOR CONTINUATION SEE SHEET M1.00 MECHANICAL SITE PLAN.

1 PIPING PLAN - LEVEL 00 - EAST WING
1/8" = 1'-0"

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STILLWATER, MN 55082

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MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 0420-126-001.00
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RIPPE ASSOCIATES
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3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

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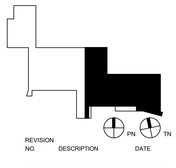
Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
PIPING PLAN - LEVEL 00 - EAST WING

SHEET NO.
M2.10B

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PLOT DATE: 9/19/2025 12:21:07 AM TEMPLATE VERSION: 23.5.4

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

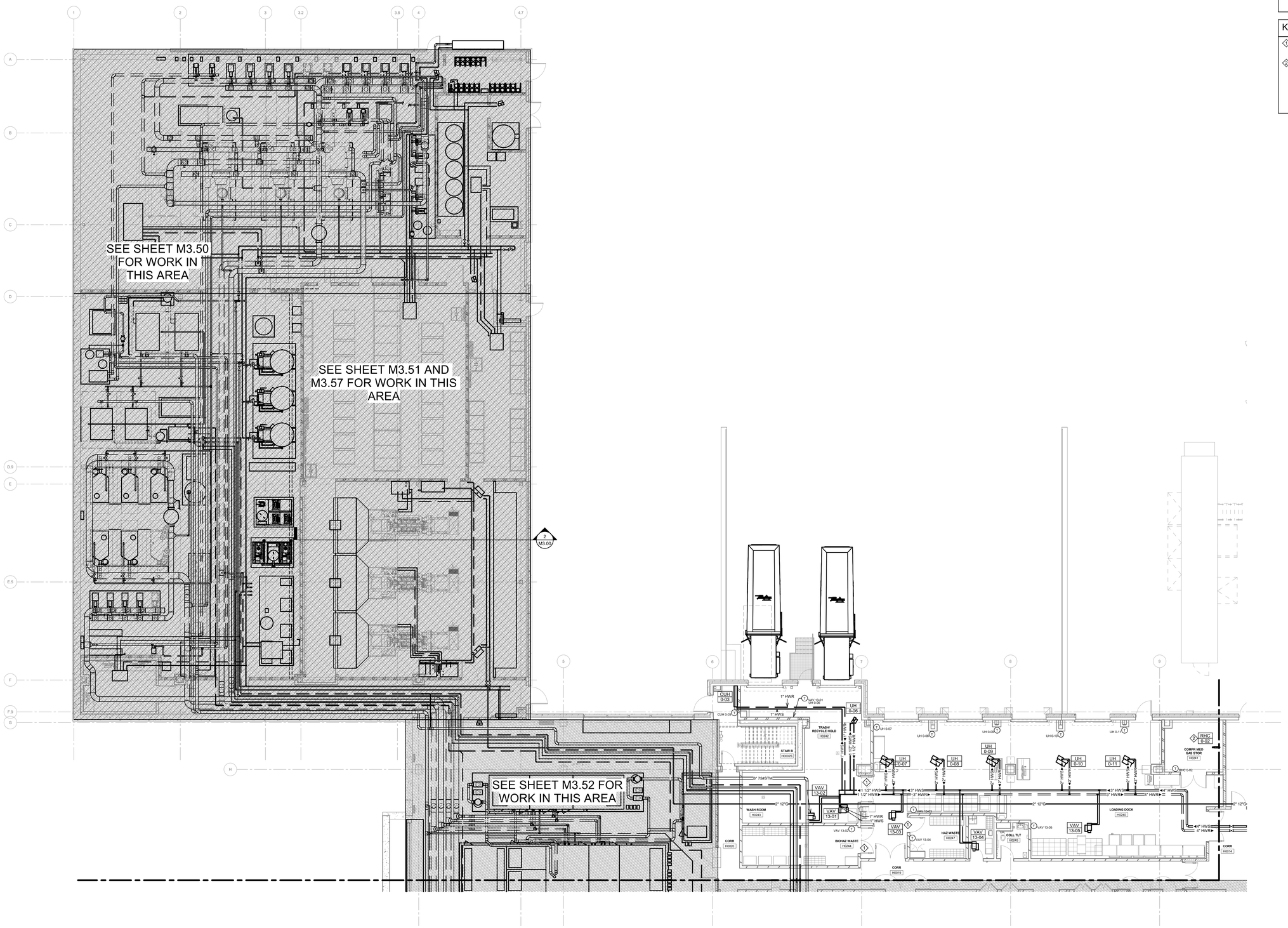
B. ALL HEATING WATER SUPPLY AND HEATING WATER RETURN PIPE RUN OUTS TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE ISOLATION BALL VALVES AT ALL PIPING TAKE-OFFS TO RUN OUTS SERVING TWO (2) OR MORE PIECES OF EQUIPMENT.

C. COORDINATION OF SCHEDULES WITH IMPACTED DEPARTMENTS, MAINTAINING CONSTRUCTION BOUNDARIES FOR INFECTION CONTROL AND CLEANING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BID.

D. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. PROVIDE DIFFERENTIAL PRESSURE SENSOR TO MONITOR PRESSURE BETWEEN SPACE AND CORRIDOR. NO LOCAL DISPLAY NEEDED. PROVIDE DOOR SWITCH.
2. ELECTRIC REHEAT COIL.



1 PIPING PLAN - LEVEL 00 - CUP
1/8" = 1'-0"

HKS
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OWNER
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3000 CURVE CREST BLVD
STILLWATER, MN 55082

OWNER'S REPRESENTATIVE
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DUNHAM ASSOCIATES DUNHAM PROJECT # 0420-120-001-00
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MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
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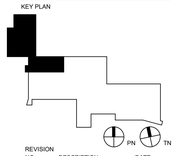
Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
PIPING PLAN - LEVEL 00 - CUP

SHEET NO.
M2.10C

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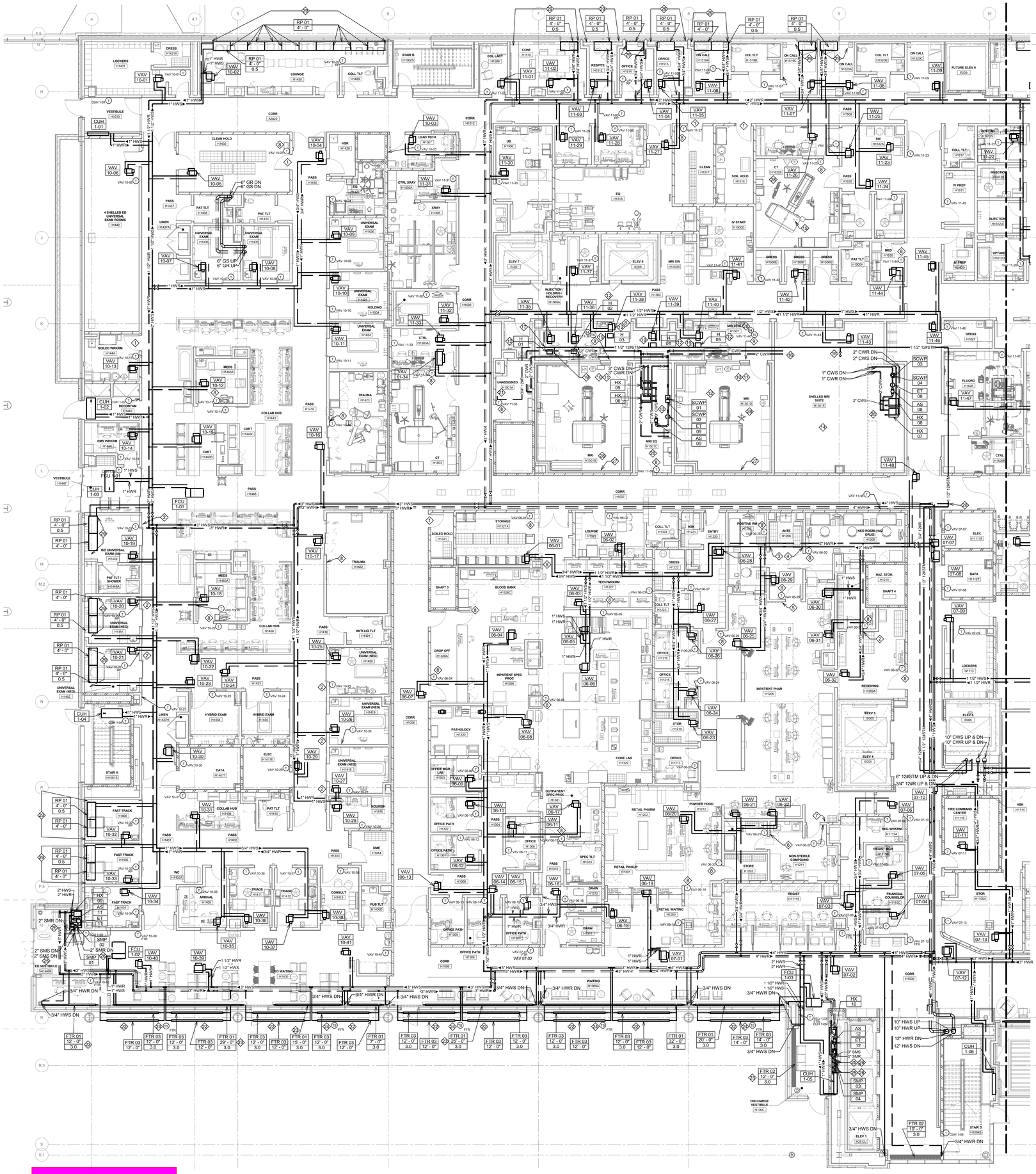

1 PIPING PLAN - LEVEL 01 - WEST WING
1/8" = 1'-0"

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

B. ALL HEATING WATER SUPPLY AND HEATING WATER RETURN PIPE RUN OUTS TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE ISOLATION BALL VALVES AT ALL PIPING TAKE-OFFS TO RUN OUTS SERVING TWO (2) OR MORE PIECES OF EQUIPMENT.

C. COORDINATION OF SCHEDULES WITH IMPACTED DEPARTMENTS, MAINTAINING CONSTRUCTION BOUNDARIES FOR INFECTION CONTROL AND CLEANING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BID.

D. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. PROVIDE DIFFERENTIAL PRESSURE SENSOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. NO LOCAL DISPLAY NEEDED.
2. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. PROVIDE DOOR SWITCH.
3. PROVIDE TOUCH SCREEN MONITOR EQUAL TO CRC MULTIVIEW TO MONITOR AND DISPLAY TEMPERATURE, RELATIVE HUMIDITY, AIR CHANGE RATE AND PRESSURE DIFFERENTIAL OF POSITIVE ROOM TO ANTE ROOM. PROVIDE TEMPERATURE AND HUMIDITY SENSORS. BAS TO MONITOR TEMPERATURE, RELATIVE HUMIDITY AND DIFFERENTIAL PRESSURE. PROVIDE DOOR SWITCH.
4. PROVIDE TOUCH SCREEN MONITOR EQUAL TO CRC MULTIVIEW TO MONITOR AND DISPLAY TEMPERATURE, RELATIVE HUMIDITY, AIR CHANGE RATE AND PRESSURE DIFFERENTIAL OF NEGATIVE ROOM TO ANTE ROOM. PROVIDE TEMPERATURE AND HUMIDITY SENSORS. BAS TO MONITOR TEMPERATURE, RELATIVE HUMIDITY AND DIFFERENTIAL PRESSURE. PROVIDE DOOR SWITCH.
5. PROVIDE TOUCH SCREEN MONITOR EQUAL TO CRC MULTIVIEW TO MONITOR AND DISPLAY TEMPERATURE, RELATIVE HUMIDITY, AIR CHANGE RATE AND PRESSURE DIFFERENTIAL OF ANTE ROOM TO MAIN PHARMACY. PROVIDE TEMPERATURE AND HUMIDITY SENSORS. BAS TO MONITOR TEMPERATURE, RELATIVE HUMIDITY AND DIFFERENTIAL PRESSURE. PROVIDE DOOR SWITCH.
6. PROVIDE TOUCH SCREEN MONITOR EQUAL TO CRC MULTIVIEW TO MONITOR AND DISPLAY TEMPERATURE, RELATIVE HUMIDITY AND PRESSURE DIFFERENTIAL OF POWDER ROOM TO NON-STERILE COMPOUNDING. PROVIDE TEMPERATURE AND HUMIDITY SENSORS. BAS TO MONITOR TEMPERATURE, RELATIVE HUMIDITY AND DIFFERENTIAL PRESSURE. PROVIDE DOOR SWITCH.
7. PROVIDE TOUCH SCREEN MONITOR EQUAL TO CRC MULTIVIEW TO MONITOR AND DISPLAY TEMPERATURE, RELATIVE HUMIDITY AND PRESSURE DIFFERENTIAL OF NON-STERILE COMPOUNDING TO MAIN PHARMACY. PROVIDE TEMPERATURE AND HUMIDITY SENSORS. BAS TO MONITOR TEMPERATURE, RELATIVE HUMIDITY AND DIFFERENTIAL PRESSURE. PROVIDE DOOR SWITCH.
8. PROVIDE COMBINATION THERMOSTAT/HUMIDISTAT.
9. PROVIDE TEMPERATURE AND HUMIDITY SENSORS IN RETURN DUCTWORK SERVING MRI ROOM.
10. PROVIDE OXYGEN SENSOR.
11. PROVIDE BLACK MUSHROOM TYPE PUSH-BUTTON SWITCH ON WALL. SWITCH TO CONTROL EMERGENCY ACTIVATION FUNCTION FOR EXHAUST FAN SERVING SPACE. PROVIDE LABEL STATING "MRI SCAN ROOM EXHAUST FAN ON/OFF". LOCATE SWITCH NEXT TO EPO SWITCH. REFER TO EQUIPMENT DRAWINGS FOR EXACT LOCATION.
12. PROVIDE CONDENSATE DRAIN PIPING FROM DUCT HUMIDIFIER TO FLOOR SINK IN MRI EQUIPMENT ROOM. PROVIDE DRAIN TEMPERING KIT UPSTREAM OF FLOOR SINK.
13. REFER TO MRI CHILLED WATER PIPING SCHEMATIC DETAIL.
14. REFER TO CT CHILLED WATER PIPING SCHEMATIC DETAIL.
15. COORDINATE WITH CT EQUIPMENT MANUFACTURER AND EQUIPMENT DRAWINGS FOR CHILLED WATER CONNECTION TO CT MACHINE.
16. CAP CHILLED WATER PIPES FOR FUTURE CONNECTION TO MRI EQUIPMENT.
17. PROVIDE 3/4" 12# RETURN PIPING FROM END OF MAIN STEAM TRAP TO FLOOR SINK IN MRI EQUIPMENT ROOM.
18. PROVIDE 1" 12# STEAM PIPING TAKEOFF AND SHUTOFF VALVE FOR FUTURE USE.
19. ROUTE 3/4" 12# STEAM PIPING TO DUCT MOUNTED HUMIDIFIER.
20. PROVIDE STEAM TRAP AT PIPING CHANGE IN ELEVATION. LOCATE AS HIGH AS POSSIBLE AND PIPE DISCHARGE BACK TO 12# RETURN.
21. PROVIDE DRAIN TEMPERING KIT ON 12# RETURN PIPING UPSTREAM OF FLOOR SINK.
22. INSTALL IN EXTERIOR SOFFIT. ALL SPECIALTIES SHALL BE LOCATED INSIDE THE BUILDING IN ACCESSIBLE LOCATION.
23. HOT WATER RETURN PIPING SHALL BE ROUTED BACK THROUGH FINNED TUBE RADIATION ENCLOSURE.
24. COORDINATE TEMPERATURE SENSOR WITH ACCESS PANEL IN EXTERIOR SOFFIT.
25. 2 INCH SMS AND SMR TO SNOW MELT MANIFOLD. SEE SHEET M1.00 FOR PIPE CONTINUATION AND MANIFOLD LOCATION.
26. PROVIDE TEMPERATURE SENSOR IN SNOW MELT RETURN MAIN SERVING SNOW MELT ZONE. BAS TO MONITOR RETURN TEMPERATURE.
27. PROVIDE MAINTENANCE CONTROL SWITCH FOR MRI EXHAUST FAN SERVING ROOM. PROVIDE PLASTIC LABEL FOR SWITCH.
28. PARTIALLY DEFERRED AREA OF WORK. FURTHER DEVELOPMENT OF THIS AREA WILL BE PROVIDED AS A FUTURE BULLETIN. ONCE SITE SPECIFIC VENDOR DRAWINGS FOR ARCHITECTURALLY SIGNIFICANT EQUIPMENT ARE OBTAINED, INCLUDING BUT NOT LIMITED TO IMAGING MODALITIES, SURGICAL BOOMS, AND OR INTEGRATION SYSTEMS INFORMATION. INFORMATION CURRENTLY PROVIDED IS FOR PRICING ONLY AND IS NOT FOR CONSTRUCTION.
29. PROVIDE INACTIVE RADIANT PANELS TO COMPLETE WALL TO WALL FINISH. CONTRACTOR TO FIELD MEASURE LENGTH OF CEILING PLENUM. REFER TO REFLECTED CEILING PLANS FOR EXTENTS.

HKS
BWBR

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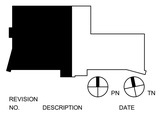
KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
PIPING PLAN - LEVEL 01 - WEST WING

SHEET NO.
M2.11A

PLOT DATE: 9/19/2025 12:21:19 AM TEMPLATE VERSION 23.0.4

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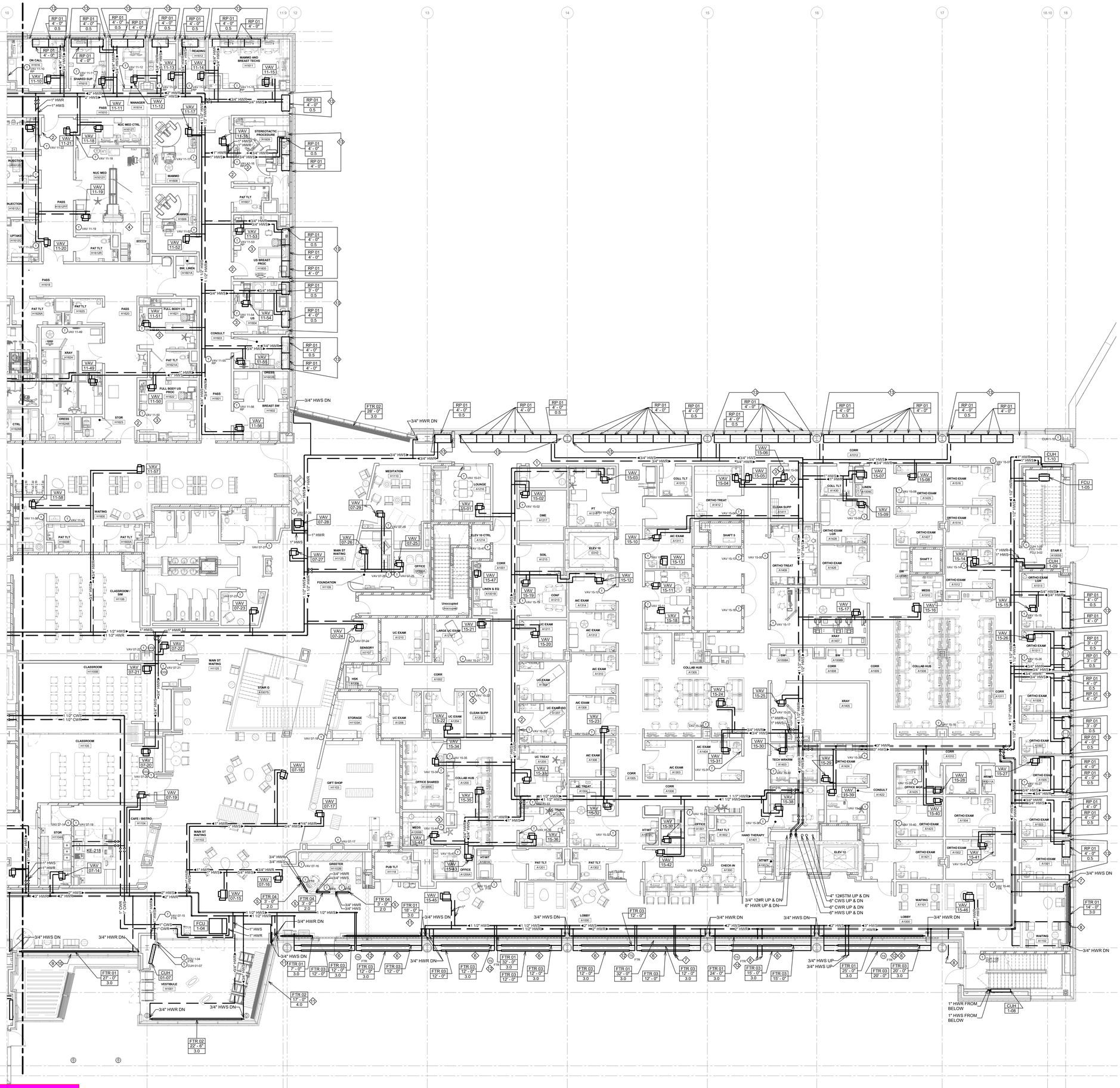

1 PIPING PLAN - LEVEL 01 - EAST WING
1/8" = 1'-0"

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

B. ALL HEATING WATER SUPPLY AND HEATING WATER RETURN PIPE RUN OUTS TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE ISOLATION BALL VALVES AT ALL PIPING TAKE-OFFS TO RUN OUTS SERVING TWO (2) OR MORE PIECES OF EQUIPMENT.

C. COORDINATION OF SCHEDULES WITH IMPACTED DEPARTMENTS, MAINTAINING CONSTRUCTION BOUNDARIES FOR INFECTION CONTROL AND CLEANING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BID.

D. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. PROVIDE DIFFERENTIAL PRESSURE SENSOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. NO LOCAL DISPLAY NEEDED.
2. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. PROVIDE DOOR SWITCH.
3. PROVIDE COMBINATION THERMOSTAT/HUMIDISTAT.
4. COORDINATE WITH NUCLEAR MEDICINE EQUIPMENT MANUFACTURER AND EQUIPMENT DRAWINGS FOR CHILLED WATER CONNECTION TO NUCLEAR MEDICINE SCANNER.
5. LOCATE FINNED TUBE RADIATION UNDER DESK. HEATING WATER SUPPLY AND RETURN PIPING ROUTED UP FROM BELOW SLAB. MOUNT THERMOSTAT TO UNDERSIDE OF DESK IN ACCESSIBLE LOCATION.
6. INSTALL IN EXTERIOR SOFFIT. ALL SPECIALTIES SHALL BE LOCATED INSIDE THE BUILDING IN ACCESSIBLE LOCATION.
7. 3/4" HWS UP.
8. 3/4" HWR UP.
9. PROVIDE BUILDING DIFFERENTIAL PRESSURE SENSOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN BUILDING AND OUTSIDE.
10. PROVIDE OUTSIDE AIR TEMPERATURE SENSOR.
11. HOT WATER RETURN PIPING SHALL BE ROUTED BACK THROUGH FINNED TUBE RADIATION ENCLOSURE.
12. COORDINATE TEMPERATURE SENSOR WITH ACCESS PANEL IN EXTERIOR SOFFIT.
13. PROVIDE INACTIVE RADIANT PANELS TO COMPLETE WALL TO WALL FINISH. CONTRACTOR TO FIELD MEASURE LENGTH OF CEILING PLENUM. REFER TO REFLECTED CEILING PLANS FOR EXTENTS.

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
PIPING PLAN - LEVEL 01 - EAST WING

SHEET NO.
M2.11B

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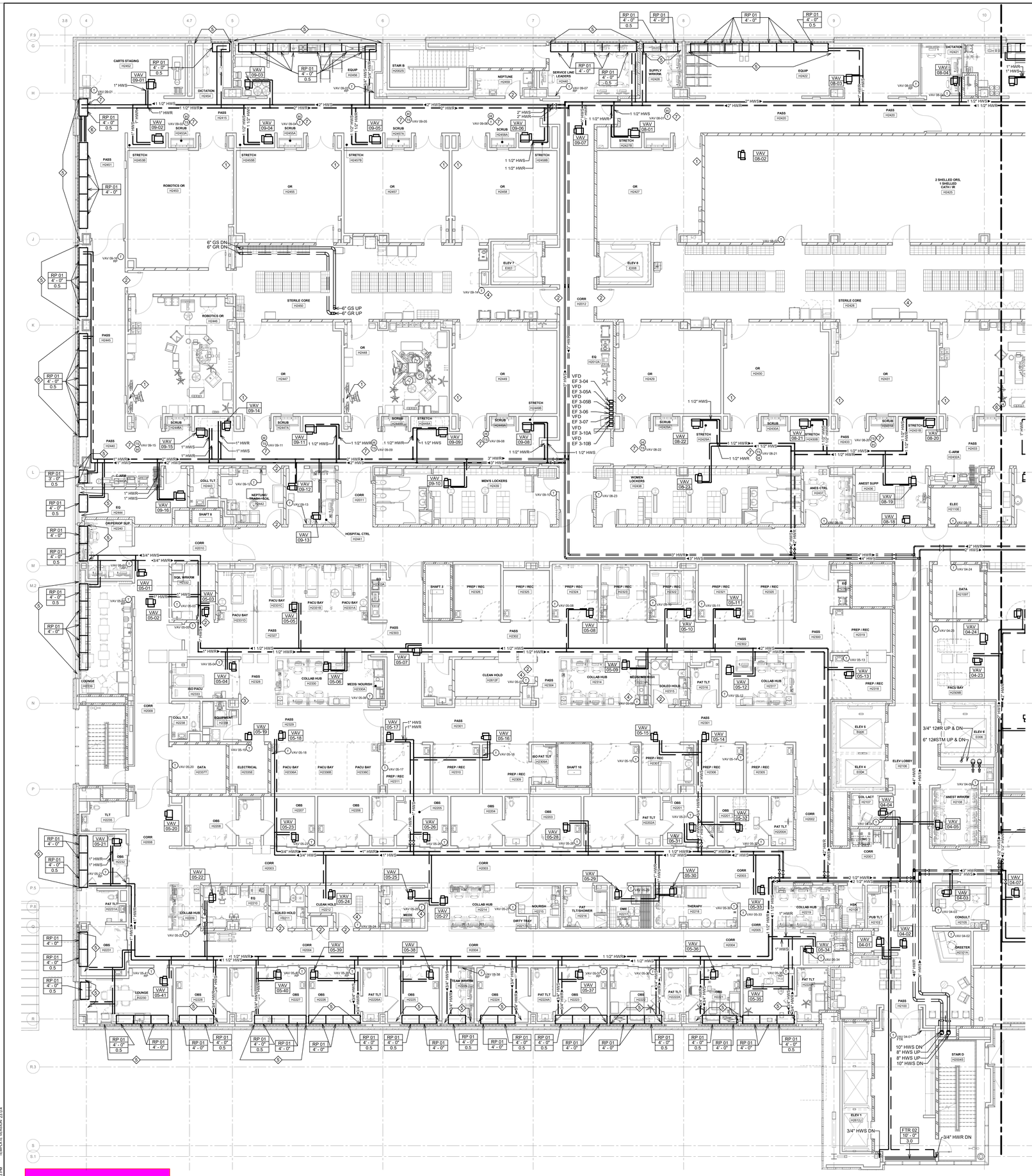

1 PIPING PLAN - LEVEL 02 - WEST WING
1/8" = 1'-0"

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

B. ALL HEATING WATER SUPPLY AND HEATING WATER RETURN PIPE RUN OUTS TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE ISOLATION BALL VALVES AT ALL PIPING TAKE-OFFS TO RUN OUTS SERVING TWO (2) OR MORE PIECES OF EQUIPMENT.

C. COORDINATION OF SCHEDULES WITH IMPACTED DEPARTMENTS, MAINTAINING CONSTRUCTION BOUNDARIES FOR INFECTION CONTROL AND CLEANING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BID.

D. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. PROVIDE TOUCH SCREEN MONITOR EQUAL TO CRC MULTIVIEW TO MONITOR AND DISPLAY TEMPERATURE, RELATIVE HUMIDITY, AIR CHANGE RATE, PRESSURE DIFFERENTIAL OF OPERATING ROOM TO CORRIDOR AND PRESSURE DIFFERENTIAL OF OPERATING ROOM TO CLEAN CORE. BAS TO MONITOR TEMPERATURE, RELATIVE HUMIDITY AND DIFFERENTIAL PRESSURES. PROVIDE DOOR SWITCHES. PROVIDE TWO (2) OCCUPANCY SENSORS FOR ROOM SET BACK.
2. PROVIDE DIFFERENTIAL PRESSURE SENSOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. NO LOCAL DISPLAY NEEDED.
3. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. PROVIDE DOOR SWITCH.
4. PROVIDE COMBINATION THERMOSTAT/HUMIDISTAT.
5. PROVIDE INACTIVE RADIANT PANELS TO COMPLETE WALL TO WALL FINISH. CONTRACTOR TO FIELD MEASURE LENGTH OF CEILING PLENUM. REFER TO REFLECTED CEILING PLANS FOR EXTENTS.
6. PROVIDE INTERCONNECTING PIPING FOR RADIANT PANEL CIRCUIT.
7. PROVIDE TEMPERATURE AND HUMIDITY SENSORS IN RETURN DUCTWORK SERVING OR.

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
PIPING PLAN - LEVEL 02 - WEST WING

SHEET NO.
M2.12A

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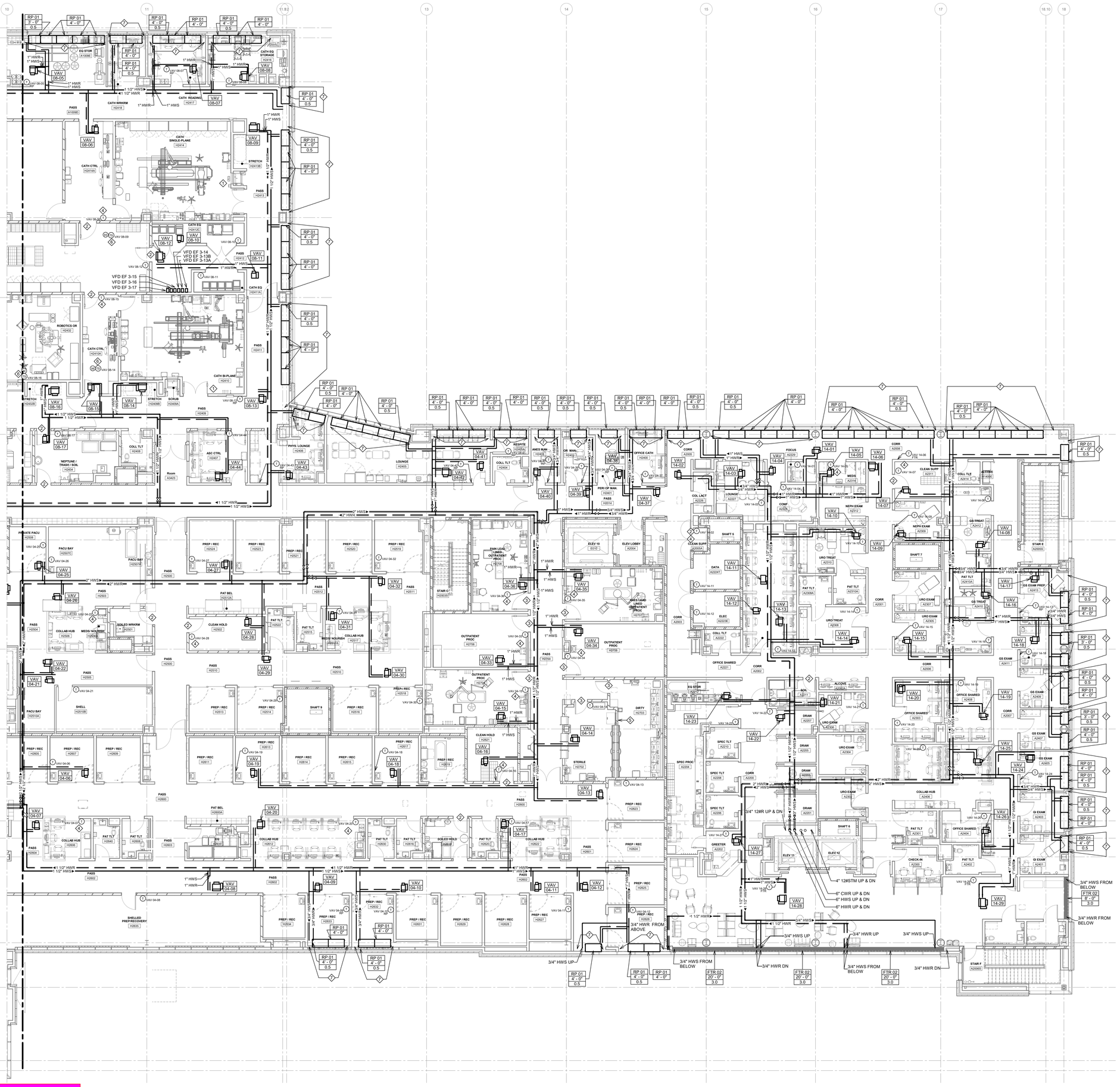

GENERAL NOTES:

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B. ALL HEATING WATER SUPPLY AND HEATING WATER RETURN PIPE RUN OUTS TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE ISOLATION BALL VALVES AT ALL PIPING TAKE-OFFS TO RUN OUTS SERVING TWO (2) OR MORE PIECES OF EQUIPMENT.

C. COORDINATION OF SCHEDULES WITH IMPACTED DEPARTMENTS, MAINTAINING CONSTRUCTION BOUNDARIES FOR INFECTION CONTROL AND CLEANING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BID.

D. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. PROVIDE TOUCH SCREEN MONITOR EQUAL TO CRC MULTIVIEW TO MONITOR AND DISPLAY TEMPERATURE, RELATIVE HUMIDITY, AIR CHANGE RATE, PRESSURE DIFFERENTIAL OF OPERATING ROOM TO CORRIDOR AND PRESSURE DIFFERENTIAL OF OPERATING ROOM TO CLEAN CORE. BAS TO MONITOR TEMPERATURE, RELATIVE HUMIDITY AND DIFFERENTIAL PRESSURES. PROVIDE DOOR SWITCHES. PROVIDE TWO (2) OCCUPANCY SENSORS FOR ROOM SET BACK.
2. PROVIDE DIFFERENTIAL PRESSURE SENSOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. NO LOCAL DISPLAY NEEDED.
3. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. PROVIDE DOOR SWITCH.
4. PROVIDE COMBINATION THERMOSTAT/HUMIDISTAT.
5. PROVIDE DIFFERENTIAL PRESSURE SENSOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN CLEAN AND DIRTY OF SCOPE PROCESSING. NO LOCAL DISPLAY NEEDED.
6. PROVIDE TEMPERATURE AND HUMIDITY SENSORS IN RETURN DUCTWORK SERVING CATH SINGLE PLANE AND BI-PLANE.
7. PROVIDE INACTIVE RADIANT PANELS TO COMPLETE WALL TO WALL FINISH. CONTRACTOR TO FIELD MEASURE LENGTH OF CEILING PLENUM. REFER TO REFLECTED CEILING PLANS FOR EXTENTS.

1 PIPING PLAN - LEVEL 02 - EAST WING
1/8" = 1'-0"

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Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

KEY PLAN

REVISION NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
PIPING PLAN - LEVEL 02 - EAST WING

SHEET NO.
M2.12B

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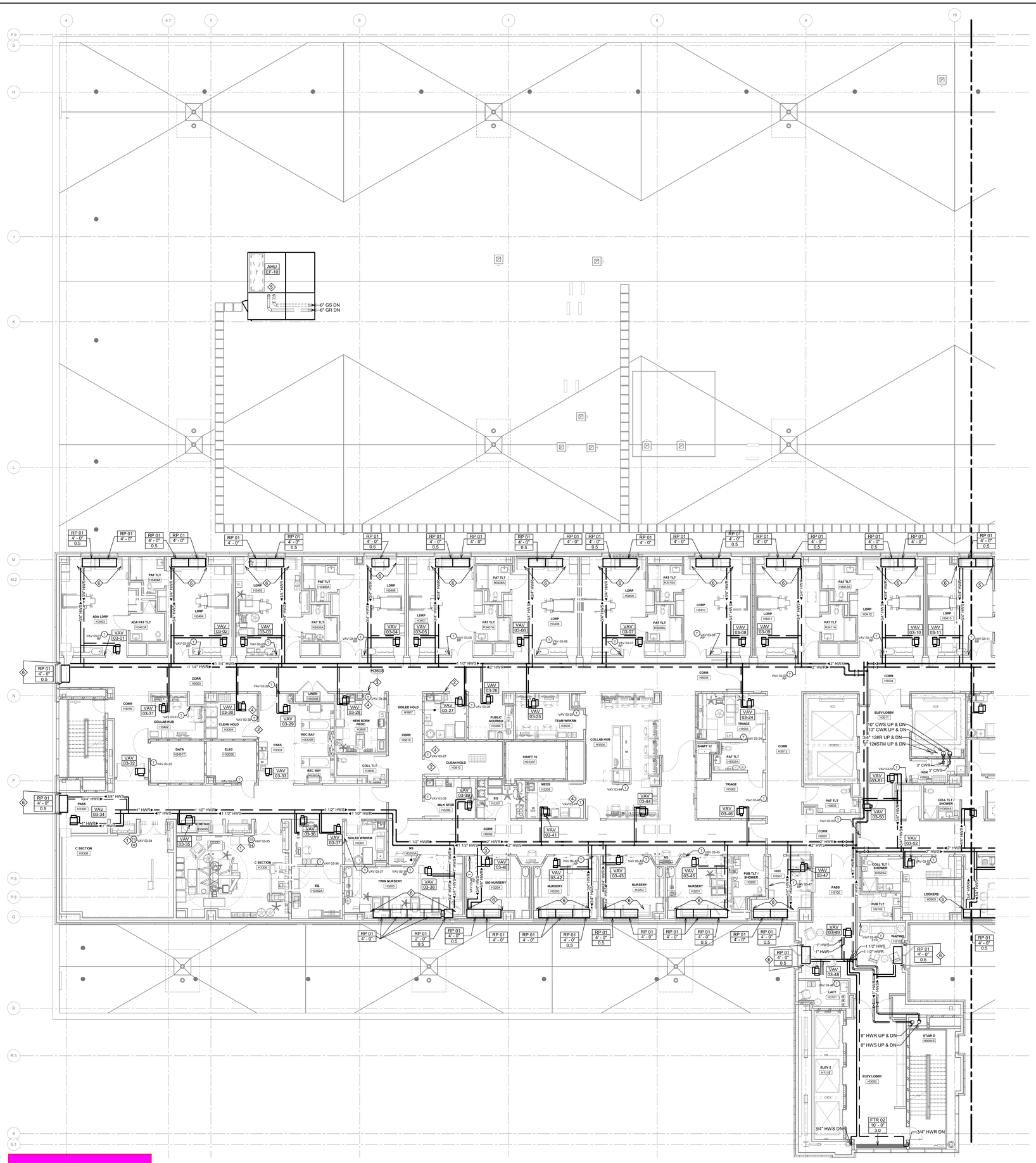

1 PIPING PLAN - LEVEL 03 - WEST WING
1/8" = 1'-0"

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

B. ALL HEATING WATER SUPPLY AND HEATING WATER RETURN PIPE RUN OUTS TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE ISOLATION BALL VALVES AT ALL PIPING TAKE-OFFS TO RUN OUTS SERVING TWO (2) OR MORE PIECES OF EQUIPMENT.

C. COORDINATION OF SCHEDULES WITH IMPACTED DEPARTMENTS, MAINTAINING CONSTRUCTION BOUNDARIES FOR INFECTION CONTROL AND CLEANING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BID.

D. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. PROVIDE TOUCH SCREEN MONITOR EQUAL TO CRC MULTIVIEW TO MONITOR AND DISPLAY TEMPERATURE, RELATIVE HUMIDITY, AIR CHANGE RATE AND PRESSURE DIFFERENTIAL OF C-SECTION ROOM TO CORRIDOR. PROVIDE TEMPERATURE AND HUMIDITY SENSORS. BAS TO MONITOR TEMPERATURE, RELATIVE HUMIDITY AND DIFFERENTIAL PRESSURES. PROVIDE DOOR SWITCH.
2. PROVIDE DIFFERENTIAL PRESSURE SENSOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. NO LOCAL DISPLAY NEEDED.
3. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. PROVIDE DOOR SWITCH.
4. PROVIDE COMBINATION THERMOSTAT/HUMIDISTAT.
5. 6" GLYCOL SUPPLY AND RETURN PIPING IN UNIT DOWN TO HEAT RECOVERY COIL.
6. PROVIDE INACTIVE RADIANT PANELS TO COMPLETE WALL TO WALL FINISH. CONTRACTOR TO FIELD MEASURE LENGTH OF CEILING PLENUM. REFER TO REFLECTED CEILING PLANS FOR EXTENTS.

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN

PN TN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
PIPING PLAN - LEVEL 03 - WEST WING

SHEET NO.
M2.13A

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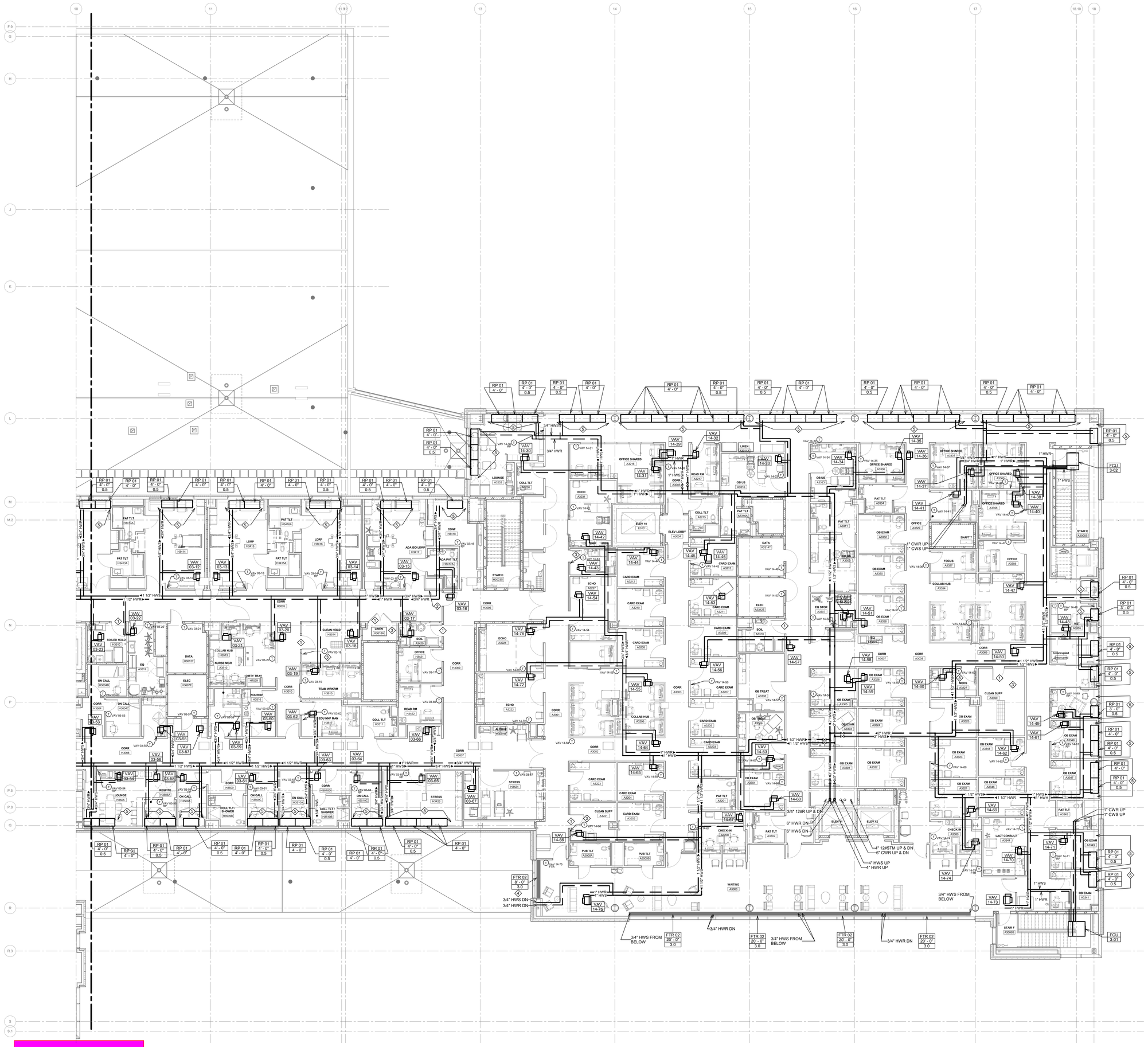

1 PIPING PLAN - LEVEL 03 - EAST WING
1/8" = 1'-0"

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

B. ALL HEATING WATER SUPPLY AND HEATING WATER RETURN PIPE RUN OUTS TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE ISOLATION BALL VALVES AT ALL PIPING TAKE-OFFS TO RUN OUTS SERVING TWO (2) OR MORE PIECES OF EQUIPMENT.

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D. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. PROVIDE DIFFERENTIAL PRESSURE SENSOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. NO LOCAL DISPLAY NEEDED.
2. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. PROVIDE DOOR SWITCH.
3. PROVIDE COMBINATION THERMOSTAT/HUMIDISTAT.
4. HOT WATER RETURN PIPING SHALL BE ROUTED BACK THROUGH FINNED TUBE RADIATION ENCLOSURE.
5. PROVIDE INACTIVE RADIANT PANELS TO COMPLETE WALL TO WALL FINISH. CONTRACTOR TO FIELD MEASURE LENGTH OF CEILING PLENUM. REFER TO REFLECTED CEILING PLANS FOR EXTENTS.

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Date 09/22/2025 Reg. No. 59587

KEY PLAN

REVISION NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
PIPING PLAN - LEVEL 03 - EAST WING

SHEET NO.
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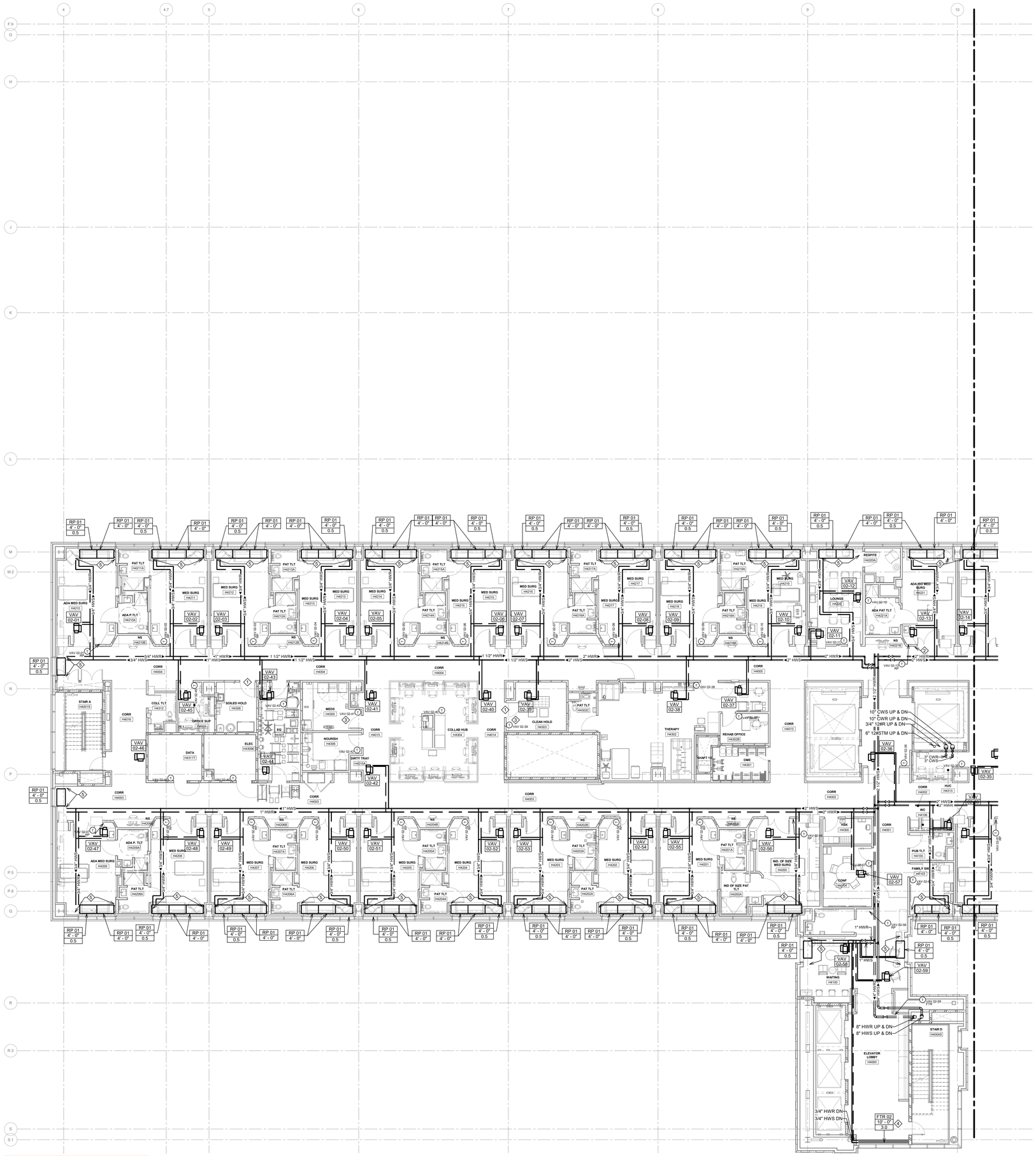

1 PIPING PLAN - LEVEL 04 - WEST WING
1/8" = 1'-0"

GENERAL NOTES:

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3. PROVIDE COMBINATION THERMOSTAT/HUMIDISTAT.
4. HOT WATER RETURN PIPING SHALL BE ROUTED BACK THROUGH FINNED TUBE RADIATION ENCLOSURE.
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STILLWATER, MN 55082

OWNER'S REPRESENTATIVE
CONCORD GROUP
1000 NORTH WATER STREET SUITE 1550
MILWAUKEE, WI 53202

GENERAL CONTRACTOR
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MINNEAPOLIS, MN 55404

ARCHITECT OF RECORD
HKS, INC.
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CHICAGO, IL 60603

ASSOCIATE ARCHITECT
BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 5424-QS-001-00
50 SOUTH SIXTH STREET, SUITE 1100
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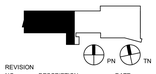
Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
PIPING PLAN - LEVEL 04 - WEST WING

SHEET NO.
M2.14A

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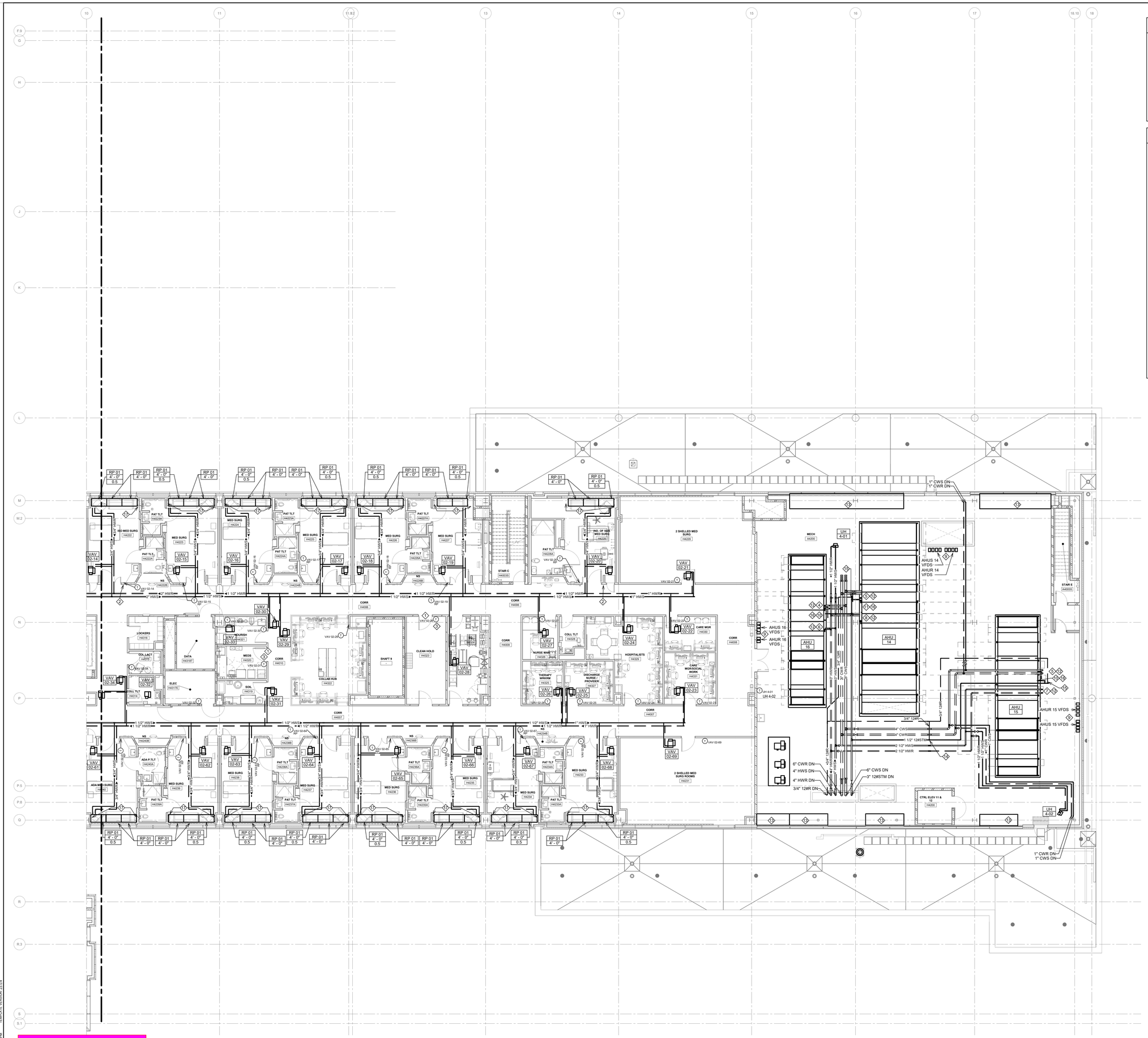

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

B. ALL HEATING WATER SUPPLY AND HEATING WATER RETURN PIPE RUN OUTS TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE ISOLATION BALL VALVES AT ALL PIPING TAKE-OFFS TO RUN OUTS SERVING TWO (2) OR MORE PIECES OF EQUIPMENT.

C. COORDINATION OF SCHEDULES WITH IMPACTED DEPARTMENTS, MAINTAINING CONSTRUCTION BOUNDARIES FOR INFECTION CONTROL AND CLEANING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BID.

D. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. PROVIDE DIFFERENTIAL PRESSURE SENSOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. NO LOCAL DISPLAY NEEDED.
2. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. PROVIDE DOOR SWITCH.
3. PROVIDE COMBINATION THERMOSTAT/HUMIDISTAT.
4. ROUTE 3" CHILLED WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT CHILLED WATER COIL.
5. ROUTE 4" CHILLED WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT CHILLED WATER COIL.
6. ROUTE 2" HEATING WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT HEATING WATER COIL.
7. ROUTE 2-1/2" HEATING WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT HEATING WATER COIL.
8. ROUTE 3" HEATING WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT HEATING WATER COIL.
9. PROVIDE UNISTRUT RACK FOR MOUNTING VFDs.
10. ROUTE 1-1/2" 12# STEAM PIPING TO AIR HANDLING UNIT HUMIDIFIER MANIFOLD.
11. ROUTE 2" 12# STEAM PIPING TO AIR HANDLING UNIT HUMIDIFIER MANIFOLD.
12. ROUTE DRAINS FROM AIR HANDLING UNIT DRAIN PANS TO FLOOR DRAIN.
13. ROUTE DRAINS FROM PLENUM TO FLOOR DRAIN.
14. PROVIDE STEAM TRAP AT PIPING CHANGE IN ELEVATION. LOCATE AS HIGH AS POSSIBLE AND PIPE DISCHARGE BACK TO 12# RETURN.
15. 3/4" 12# RETURN PIPING FROM END OF MAIN STEAM TRAP.
16. ROUTE 3/4" DISCHARGE FROM STEAM SEPARATOR TRAP TO 12# RETURN PIPE.
17. PROVIDE INACTIVE RADIANT PANELS TO COMPLETE WALL TO WALL FINISH. CONTRACTOR TO FIELD MEASURE LENGTH OF CEILING PLENUM. REFER TO REFLECTED CEILING PLANS FOR EXTENTS.

1 PIPING PLAN - LEVEL 04 - EAST WING
1/8" = 1'-0"

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SHEET TITLE
PIPING PLAN - LEVEL 04 - EAST WING

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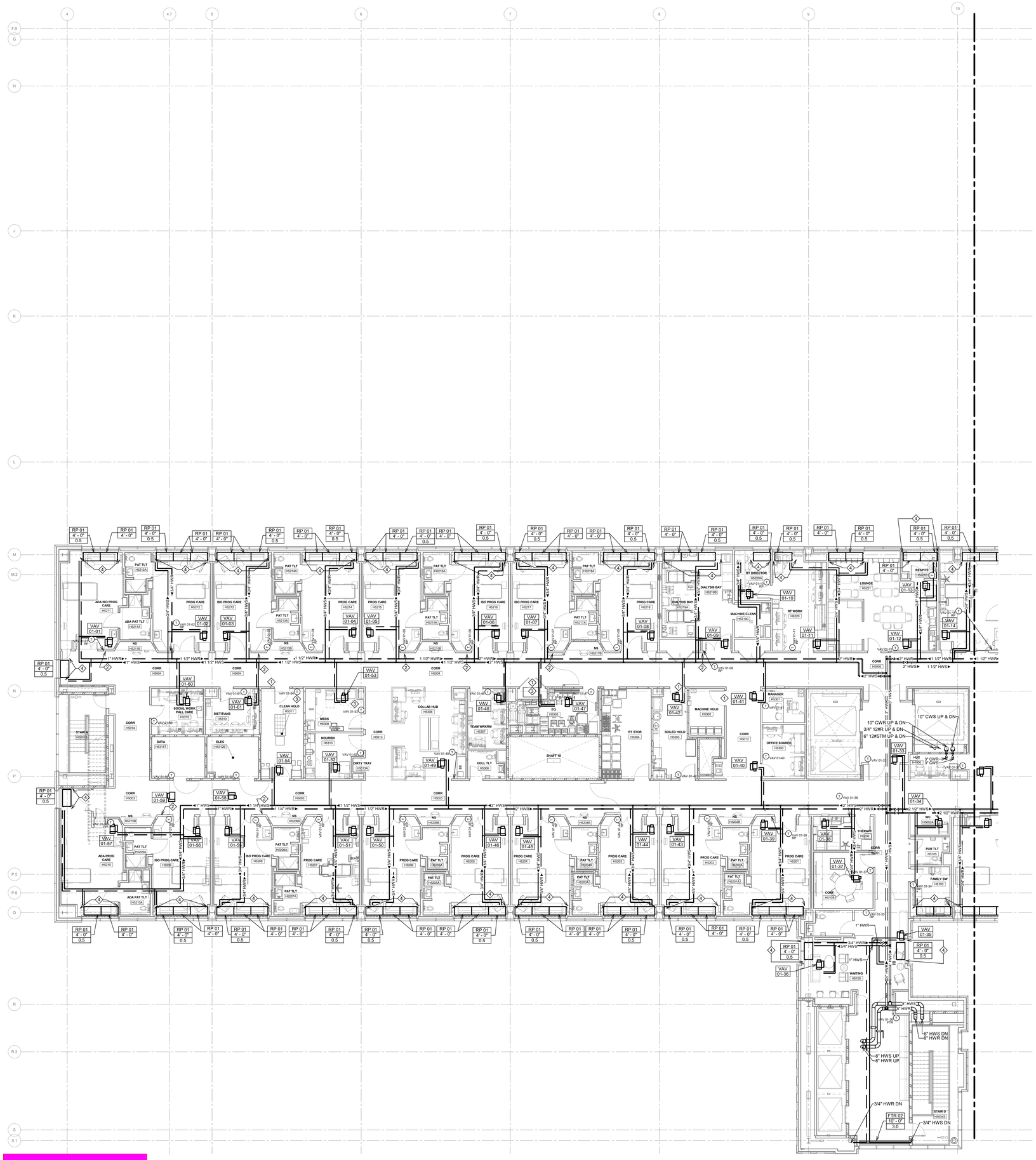

1 PIPING PLAN - LEVEL 05 - WEST WING
1/8" = 1'-0"

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

B. ALL HEATING WATER SUPPLY AND HEATING WATER RETURN PIPE RUN OUTS TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE ISOLATION BALL VALVES AT ALL PIPING TAKE-OFFS TO RUN OUTS SERVING TWO (2) OR MORE PIECES OF EQUIPMENT.

C. COORDINATION OF SCHEDULES WITH IMPACTED DEPARTMENTS, MAINTAINING CONSTRUCTION BOUNDARIES FOR INFECTION CONTROL AND CLEANING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BID.

D. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. PROVIDE DIFFERENTIAL PRESSURE SENSOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. NO LOCAL DISPLAY NEEDED.
2. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. PROVIDE DOOR SWITCH.
3. PROVIDE COMBINATION THERMOSTAT/HUMIDISTAT.
4. PROVIDE INACTIVE RADIANT PANELS TO COMPLETE WALL TO WALL FINISH. CONTRACTOR TO FIELD MEASURE LENGTH OF CEILING PLENUM. REFER TO REFLECTED CEILING PLANS FOR EXTENTS.

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN

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BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
PIPING PLAN - LEVEL 05 - WEST WING

SHEET NO.
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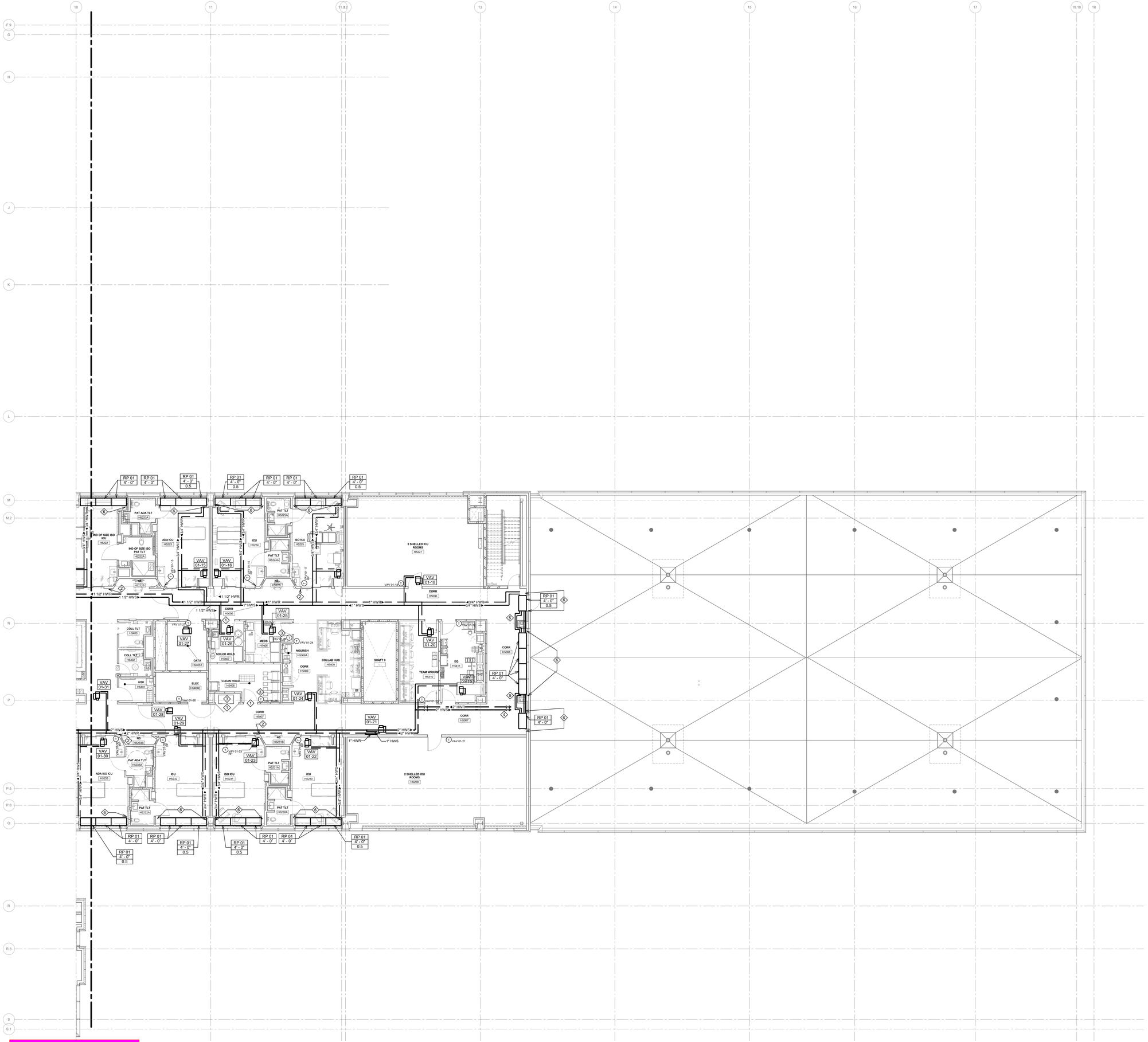

1 PIPING PLAN - LEVEL 05 - EAST WING
1/8" = 1'-0"

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

B. ALL HEATING WATER SUPPLY AND HEATING WATER RETURN PIPE RUN OUTS TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE ISOLATION BALL VALVES AT ALL PIPING TAKE-OFFS TO RUN OUTS SERVING TWO (2) OR MORE PIECES OF EQUIPMENT.

C. COORDINATION OF SCHEDULES WITH IMPACTED DEPARTMENTS, MAINTAINING CONSTRUCTION BOUNDARIES FOR INFECTION CONTROL AND CLEANING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BID.

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KEY NOTES:

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2. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN SPACE AND CORRIDOR. PROVIDE DOOR SWITCH.
3. PROVIDE COMBINATION THERMOSTAT/HUMIDISTAT.
4. PROVIDE HEATING WATER SUPPLY AND RETURN TAKE-OFFS FOR FUTURE LEVEL 05 EXPANSION. ASSUME APPROXIMATELY 30 GPM.
5. PROVIDE INTERCONNECTING PIPING FOR RADIANT PANEL CIRCUIT.
6. PROVIDE INACTIVE RADIANT PANELS TO COMPLETE WALL TO WALL FINISH. CONTRACTOR TO FIELD MEASURE LENGTH OF CEILING PLENUM. REFER TO REFLECTED CEILING PLANS FOR EXTENTS.

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DUNHAM ASSOCIATES DUNHAM PROJECT # 5424-120-001-00
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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN

PN TN

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ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
PIPING PLAN - LEVEL 05 - EAST WING

SHEET NO.
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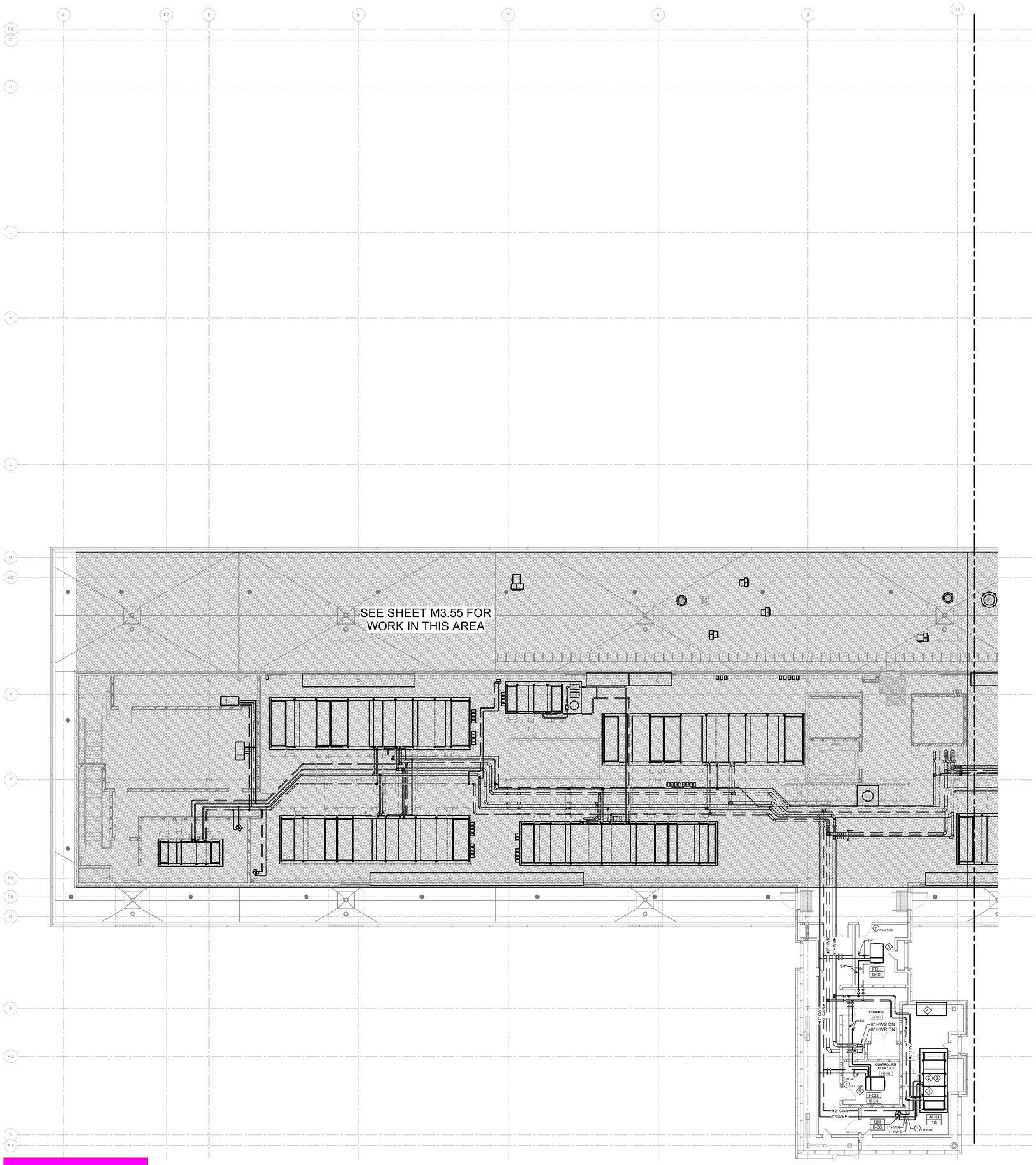

1 PIPING PLAN - LEVEL 06 - WEST WING
1/8" = 1'-0"

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

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D. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. ROUTE 3" HEATING WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT HEATING WATER COIL. PIPE COILS IN A 1/3-2/3 VALVE CONFIGURATION.
2. ROUTE 2" CHILLED WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT CHILLED WATER COIL.
3. ROUTE DRAINS FROM AIR HANDLING UNIT DRAIN PANS TO FLOOR SINK.
4. ROUTE DRAINS FROM PLENUM TO FLOOR DRAIN.
5. ROUTE DRAIN LINE TO FLOOR DRAIN.

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SHEET TITLE
PIPING PLAN - LEVEL 06 - WEST WING

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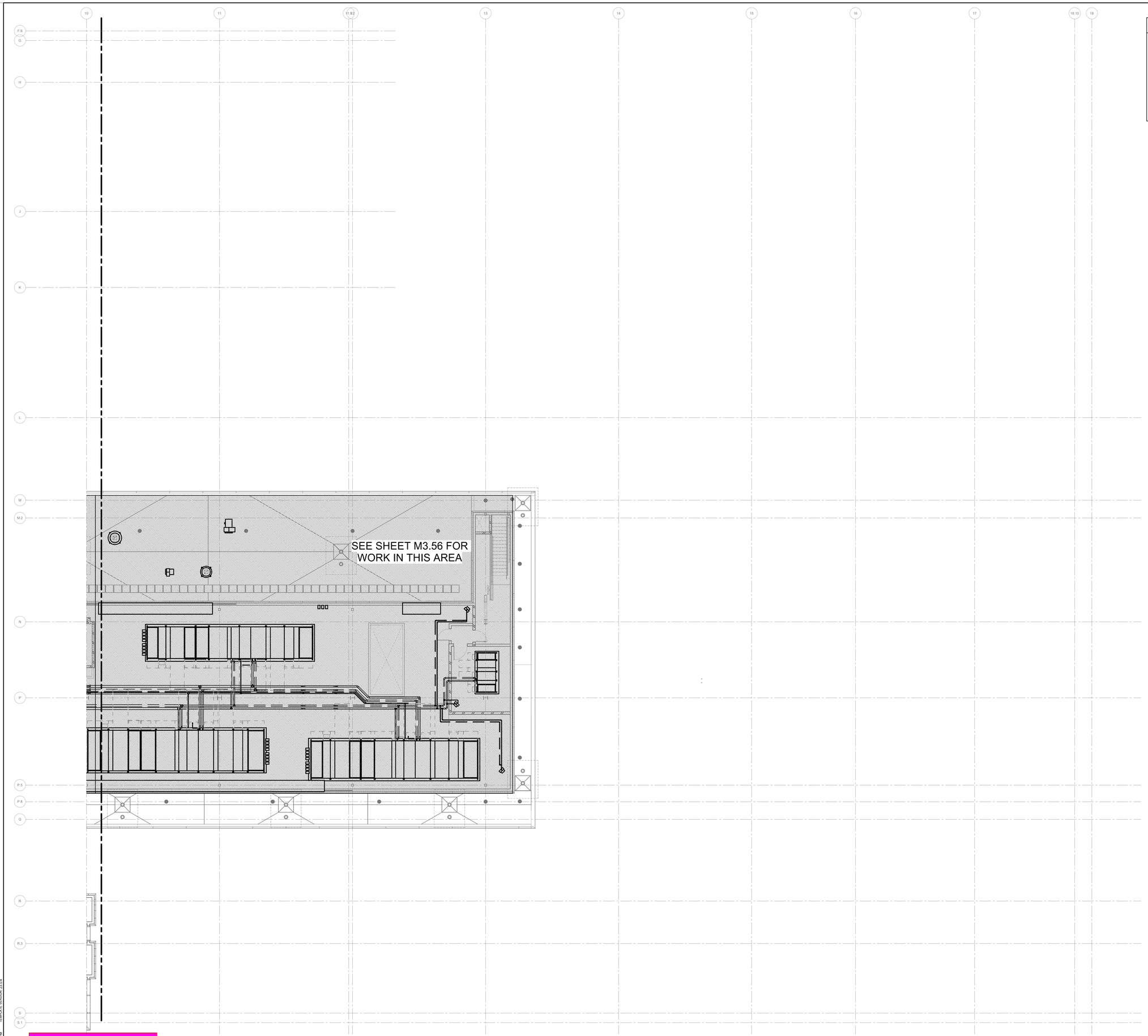

1 PIPING PLAN - LEVEL 06 - EAST WING
1/8" = 1'-0"

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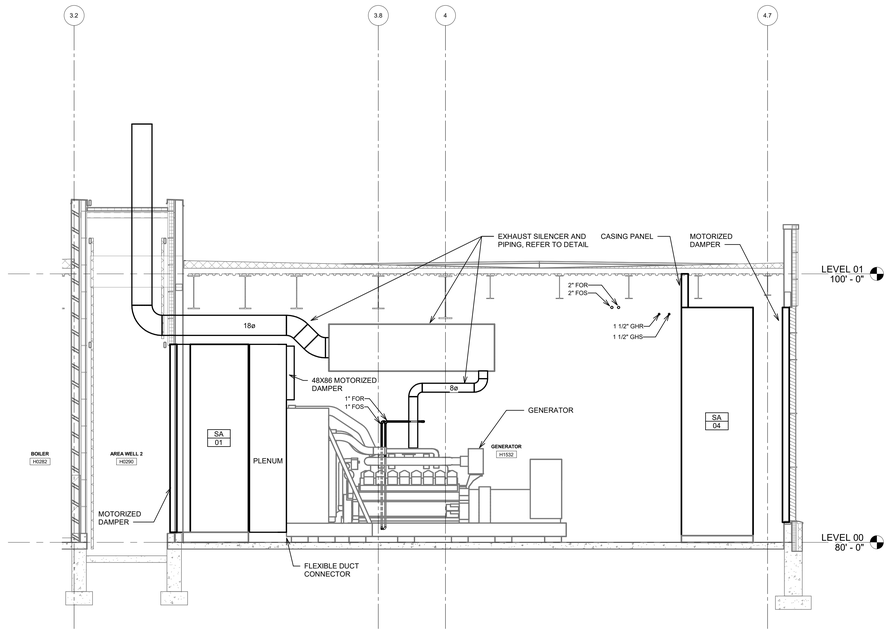
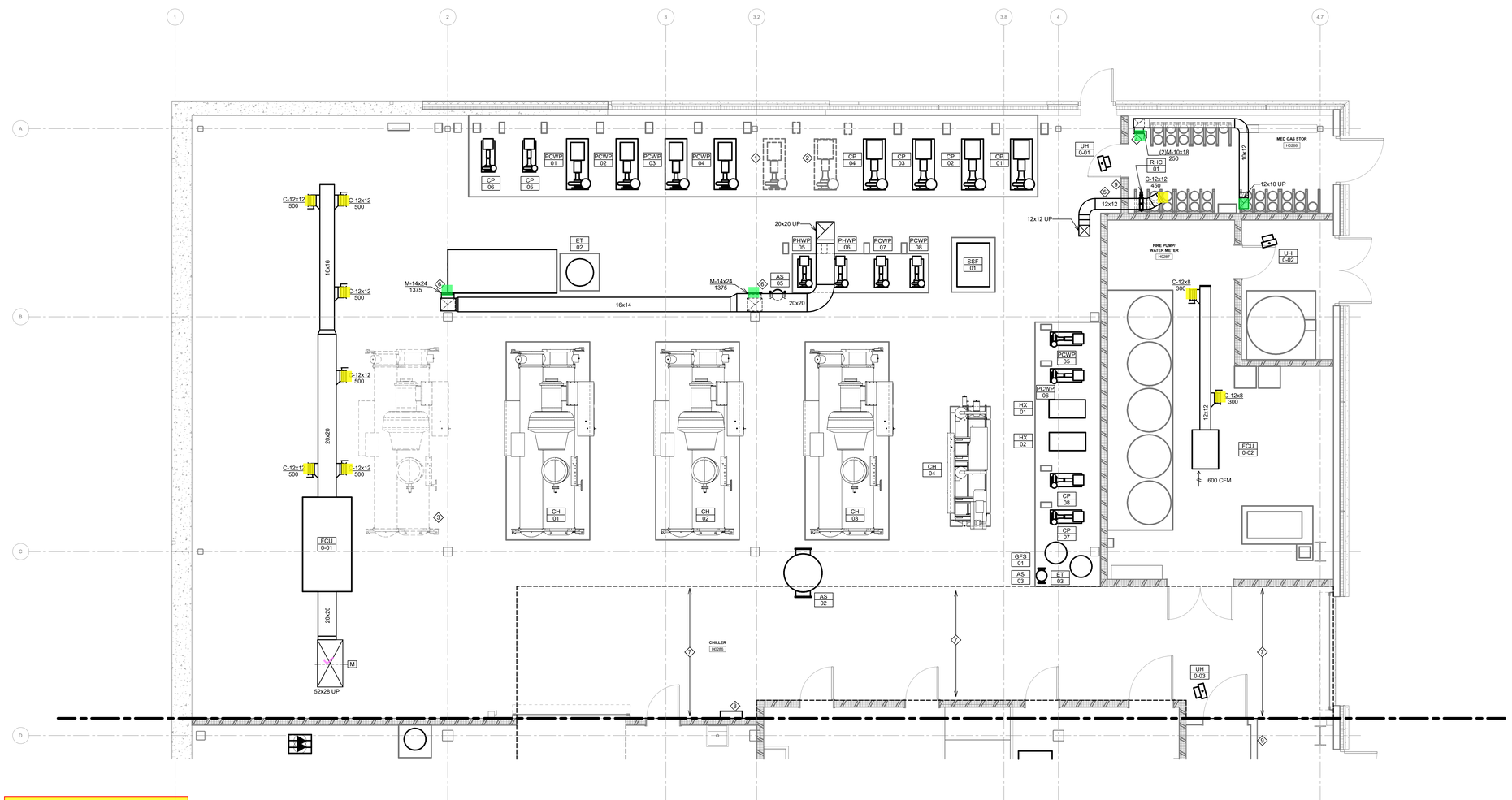


2 GENERATOR ROOM SECTION
1/4" = 1'-0"



1 ENLARGED HVAC PLAN - LEVEL 00 CUP NORTH
1/4" = 1'-0"

GENERAL NOTES:

A. EXACT LOCATION/ELEVATION FOR EQUIPMENT VENTING CONNECTIONS SHALL BE VERIFIED WITH THE SHOP DRAWINGS THAT HAVE BEEN STAMPED FOR APPROVAL. MARK ROUGH-IN LOCATIONS FOR COORDINATION WITH OTHER AFFECTED TRADES PRIOR TO ANY INSTALLATION EFFORTS.

B. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS.

KEY NOTES:

1. FUTURE PRIMARY CHILLED WATER PUMP AND VFD.
2. FUTURE CONDENSER WATER PUMP AND VFD.
3. FUTURE CHILLER.
4. ROUTE 10X12 EXHAUST DUCT DOWN WALL. MOUNT BOTTOM OF LOW GRILLE 12" AFF. MOUNT TOP GRILLE 2' BELOW ROOF DECK.
5. ROUTE 12X12 OUTSIDE AIR DUCT DOWN FROM OUTSIDE AIR FAN TO MED GAS STORAGE ROOM IN RATED ENCLOSURE. DUCT MOUNTED HEATING COIL SHALL BE LOCATED IN THE MED GAS STORAGE ROOM. TERMINATE DUCT 18" DOWNSTREAM OF COIL.
6. CHILLER ROOM EXHAUST SYSTEM. ROUTE 16X14 DUCT DOWN. MOUNT BOTTOM OF EXHAUST GRILLE 8" AFF. MOUNT BALANCING DAMPER 5'-0" AFF.
7. MAINTAIN 11'-0" MINIMUM INSTALLATION HEIGHT IN THE AREA INDICATED BY THE DASHED LINE FOR EQUIPMENT REPLACEMENT PATH.
8. REFRIGERANT LEAK DETECTION CONTROL PANEL. PROVIDE COMPLETE SYSTEM WITH AUDIBLE AND VISIBLE ALARM. LOCATE SENSORS PER CHILLER MANUFACTURER.
9. TAMPER RESISTANT REFRIGERANT SYSTEM EMERGENCY SHUT-OFF.

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STILLWATER, MN 55082

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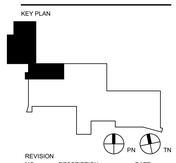
Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
ENLARGED HVAC PLAN - LEVEL 00 CUP NORTH

SHEET NO.
M3.00

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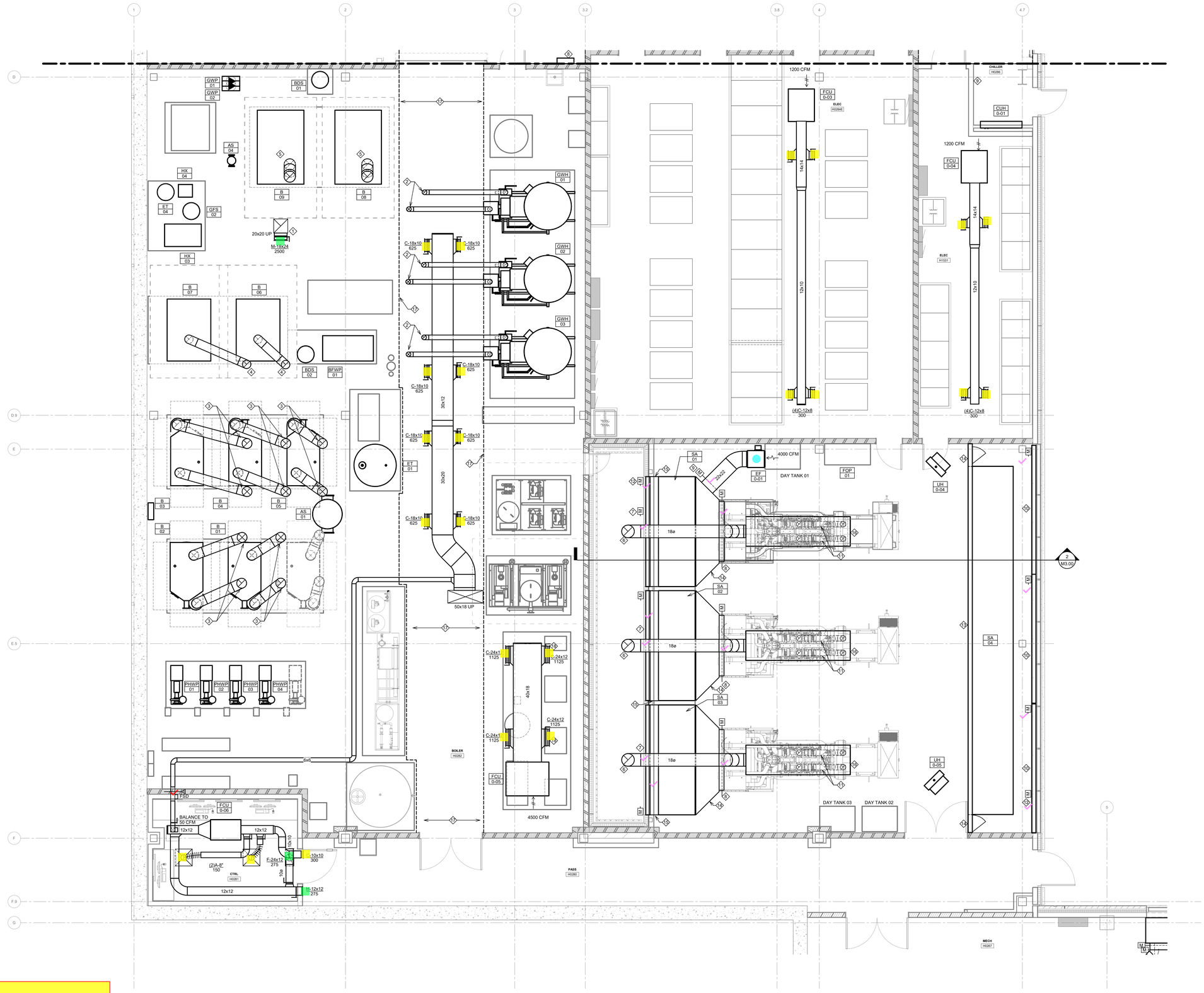

GENERAL NOTES:

A. EXACT LOCATION/ELEVATION FOR EQUIPMENT VENTING CONNECTIONS SHALL BE VERIFIED WITH THE SHOP DRAWINGS THAT HAVE BEEN STAMPED FOR APPROVAL. MARK ROUGH-IN LOCATIONS FOR COORDINATION WITH OTHER AFFECTED TRADES PRIOR TO ANY INSTALLATION EFFORTS.

B. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS.

KEY NOTES:

1. BOILER ROOM EXHAUST SYSTEM. BOTTOM OF GRILLE 15'-0" AFF.
2. 8" DOMESTIC WATER HEATER VENT AND OA INTAKE UP THROUGH ROOF.
3. 14" HEATING WATER BOILER VENT AND OA INTAKE UP THROUGH ROOF.
4. 12" STEAM BOILER VENT UP THROUGH ROOF.
5. 16" STEAM BOILER VENT UP THROUGH ROOF.
6. 18" INSULATED ENGINE EXHAUST FROM GENERATOR MUFFLER UP THROUGH EXHAUST AREA WELL. SEE DETAIL.
7. INSTALL DAMPERS AT EXTERIOR WALL. ACTUATORS SHALL BE ACCESSIBLE FROM AREA WELL. DAMPER SECTION SIZE SHALL MATCH ATTENUATOR MODULE SIZE. PROVIDE STRUCTURAL SUPPORT OF DAMPER. STRUCTURAL MEMBERS SHALL ONLY BE PLACED CENTERED ON WHERE ATTENUATOR MODULES ADJOIN.
8. PROVIDE FULLY ENCLOSED DISCHARGE PLENUM FOR GENERATORS. PROVIDE AIR-TIGHT CONNECTION TO DAMPERS AT WALL. PROVIDE WITH 86" X 48" MOTORIZED DAMPERS FOR AIR RECIRCULATION.
9. CONNECT EXHAUST DUCT TO PLENUM WITH DEDICATED DAMPER. DAMPER SHALL FAIL CLOSED.
10. PROVIDE 15' - 3" X 16' - 0" INTAKE DAMPER ASSEMBLY FOR EACH GENERATOR.
11. 8" INSULATED ENGINE EXHAUST FROM GENERATOR TO MUFFLER.
12. ONE DAMPER SECTION (MINIMUM 4 FT²) SHALL BE USED FOR VENTILATION. THE BOTTOM OF THIS DAMPER SECTION SHALL BE A MINIMUM OF 4'-0" AFF. REFER TO SEQUENCE OF OPERATIONS.
13. PROVIDE PLENUM CASING SYSTEM AT SIDES AND TOP OF ATTENUATOR SYSTEM TO SEAL VOID BETWEEN WALLS, ROOF DECK AND ATTENUATORS.
14. PROVIDE 24" X 80" ACCESS DOOR.
15. PROVIDE 12" LENGTH OF DUCT CONNECTING DAMPER ASSEMBLY AND ATTENUATOR.
16. GENERATOR MUFFLER, PURCHASED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR. SEE DETAIL.
17. MAINTAIN 11'-0" MINIMUM INSTALLATION HEIGHT IN THE AREA INDICATED BY THE DASHED LINE FOR EQUIPMENT REPLACEMENT PATH.
18. GRILLE SHOWN ON SIDE FOR CLARITY. MOUNT ON BOTTOM OF DUCT, DISCHARGING DOWN.

1 ENLARGED HVAC PLAN - LEVEL 00 CUP SOUTH
1/4" = 1'-0"

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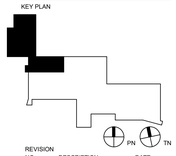
Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN



REVISION NO.	DESCRIPTION	DATE

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DATE
09/22/2025

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SHEET TITLE
ENLARGED HVAC PLAN - LEVEL 00 CUP SOUTH

SHEET NO.
M3.01

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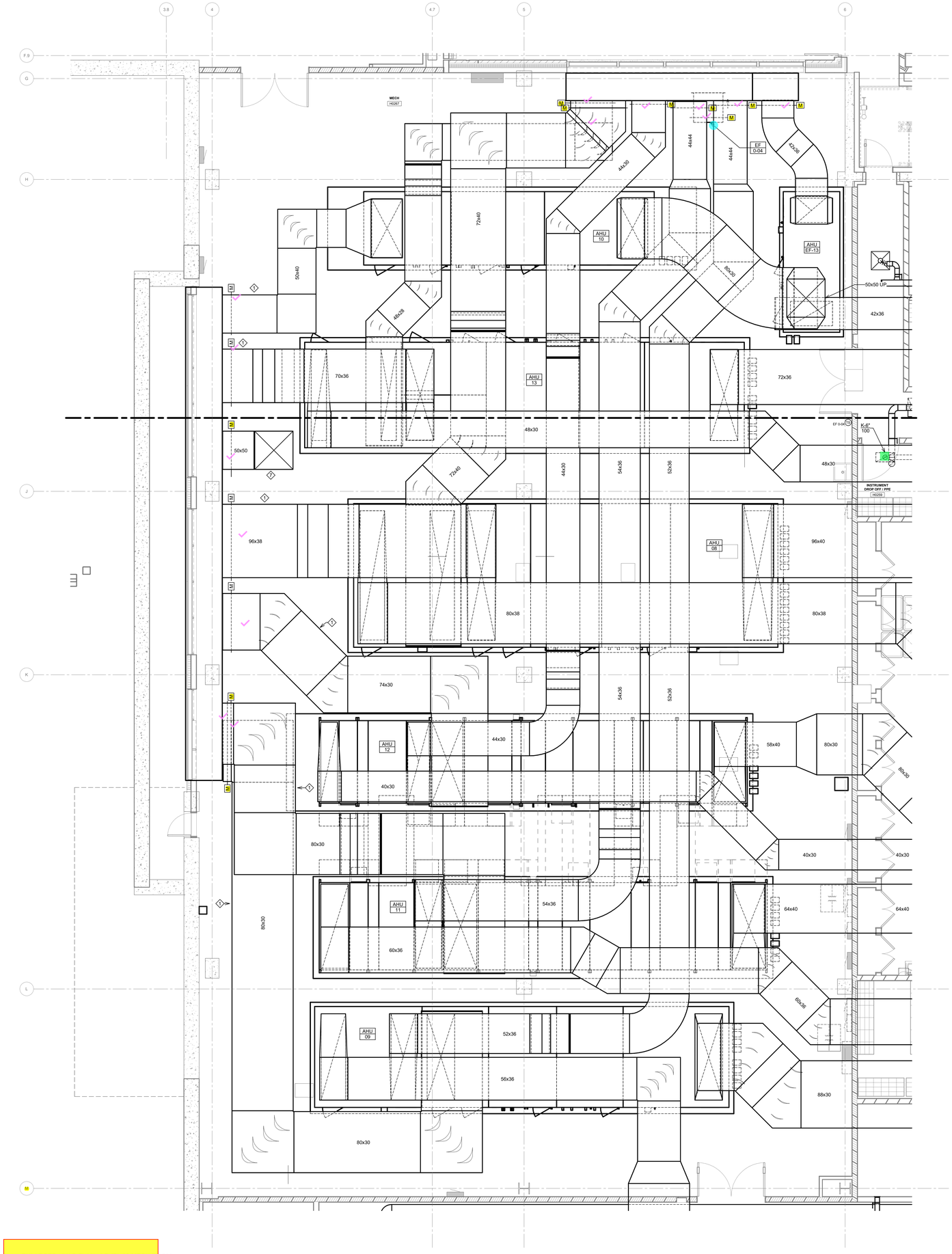

GENERAL NOTES:

A. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. PROVIDE ACCESS PANELS AS REQUIRED BY NFPA AND MINNESOTA MECHANICAL CODE.
2. ROUTE 13x10 TO EXHAUST HOOD CONNECTION. BALANCE TO 1400 CFM.
3. ROUTE 16x9 TO EXHAUST HOOD CONNECTION. BALANCE TO 1650 CFM.
4. ROUTE 11x9 TO EXHAUST HOOD CONNECTION. BALANCE TO 1100 CFM.
5. ROUTE 18x10 TO EXHAUST HOOD CONNECTION. BALANCE TO 1900 CFM.
6. EXHAUST SERVING DISH ROOM AREA SHALL BE TYPE II CONSTRUCTION UP UNTIL DUCT TRANSITION.
7. PROVIDE 50x50 OUTSIDE AIR OPENING WITH MOTORIZED DAMPER TO BE OPEN WHEN EF 0-04 IS OPERATING. TURN DUCTWORK UP TO PREVENT AIR FROM DIRECTLY DISCHARING ON HYDRONIC PIPING.

1 ENLARGED HVAC PLAN - LEVEL 00 MECH ROOM
1/4" = 1'-0"

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
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SHEET TITLE
ENLARGED HVAC PLAN - LEVEL 00 MECH ROOM

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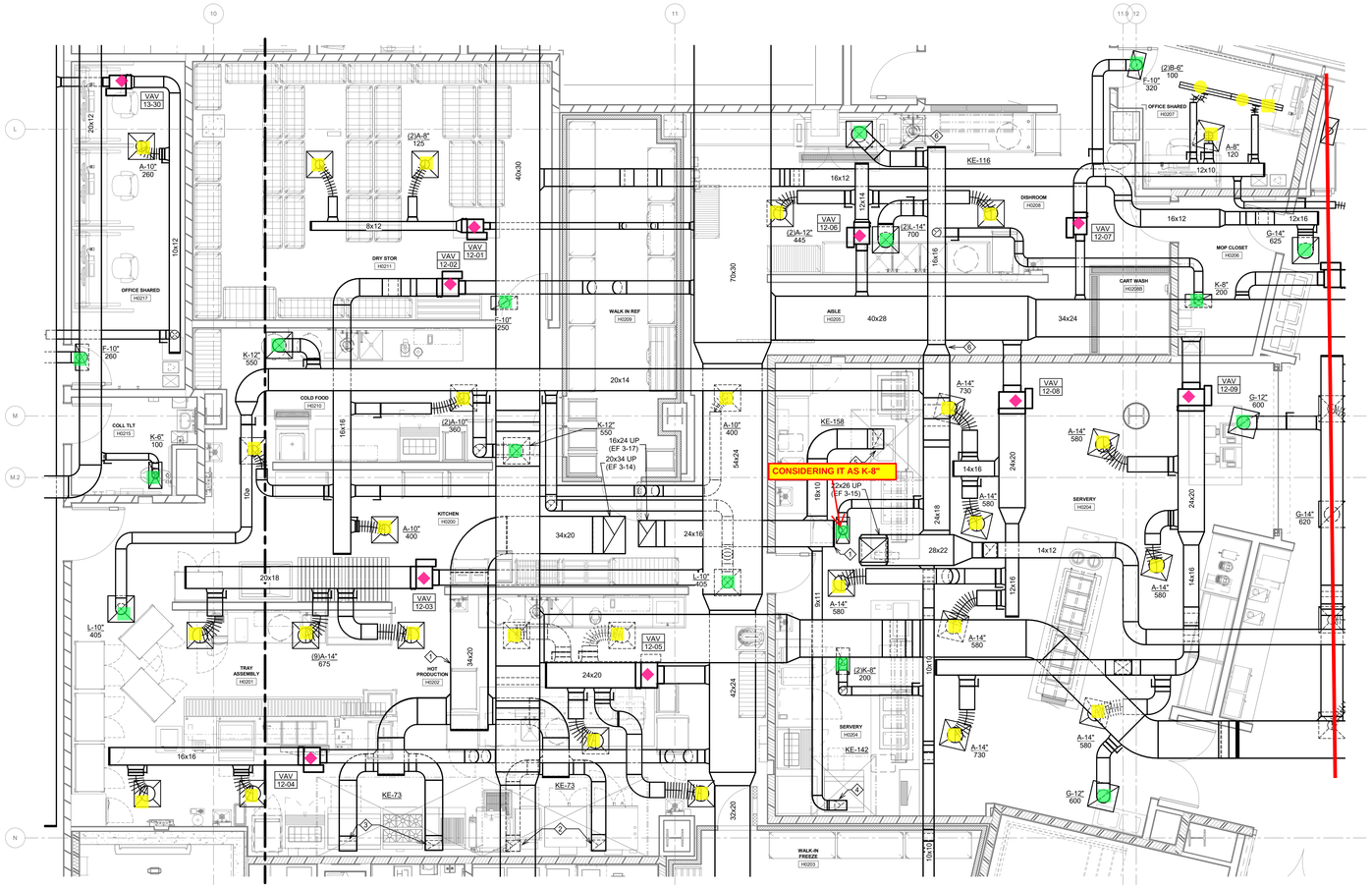

1 ENLARGED HVAC PLAN - LEVEL 00 KITCHEN
1/4" = 1'-0"

GENERAL NOTES:

A. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. PROVIDE ACCESS PANELS AS REQUIRED BY NFPA AND MINNESOTA MECHANICAL CODE.
2. ROUTE 13x10 TO EXHAUST HOOD CONNECTION. BALANCE TO 1400 CFM.
3. ROUTE 16x9 TO EXHAUST HOOD CONNECTION. BALANCE TO 1650 CFM.
4. ROUTE 11x9 TO EXHAUST HOOD CONNECTION. BALANCE TO 1100 CFM.
5. ROUTE 18x10 TO EXHAUST HOOD CONNECTION. BALANCE TO 1900 CFM.
6. EXHAUST SERVING DISH ROOM AREA SHALL BE TYPE II CONSTRUCTION UP UNTIL DUCT TRANSITION.
7. PROVIDE 50x50 OUTSIDE AIR OPENING WITH MOTORIZED DAMPER TO BE OPEN WHEN EF 0-04 IS OPERATING. TURN DUCTWORK UP TO PREVENT AIR FROM DIRECTLY DISCHARING ON HYDRONIC PIPING.

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

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HKS PROJECT NUMBER
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SHEET TITLE
ENLARGED HVAC PLAN - LEVEL 00 KITCHEN

SHEET NO.
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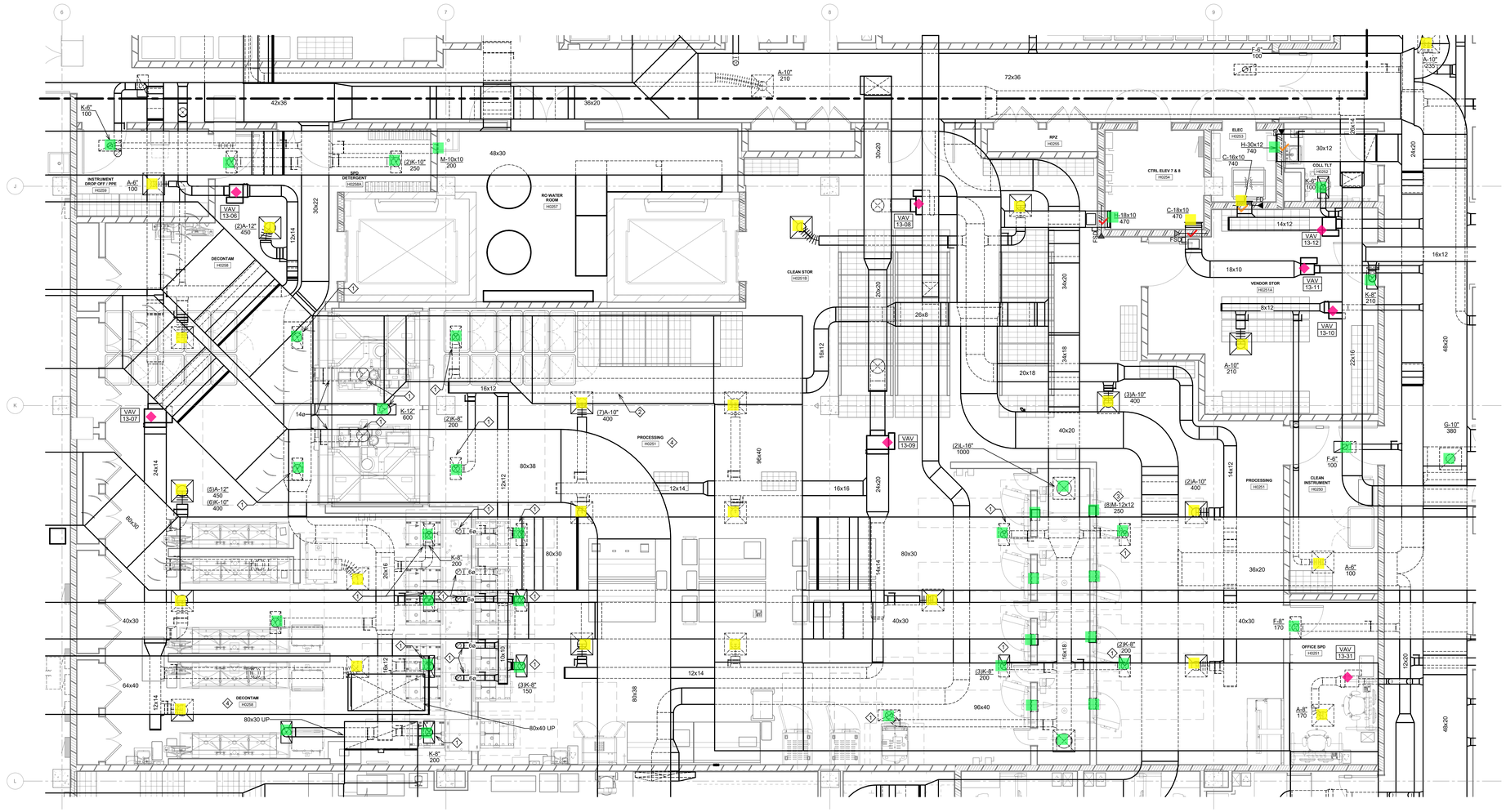

1 ENLARGED HVAC PLAN - LEVEL 00 SPD
1/4" = 1'-0"

GENERAL NOTES:

A. EXACT LOCATION/ELEVATION FOR EQUIPMENT VENTING CONNECTIONS SHALL BE VERIFIED WITH THE SHOP DRAWINGS THAT HAVE BEEN STAMPED FOR APPROVAL. MARK ROUGH-IN LOCATIONS FOR COORDINATION WITH OTHER AFFECTED TRADES PRIOR TO ANY INSTALLATION EFFORTS.

B. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS.

KEY NOTES:

1. DUCT FROM STERILIZATION EQUIPMENT AND GRILLES INDICATED SHALL BE WELDED STAINLESS STEEL UP UNTIL CONNECTION TO MAIN. DUCTWORK CONNECTED TO STERILIZATION EQUIPMENT SHALL BE SLOPED TOWARDS THE PIECE OF EQUIPMENT.
2. ALL DUCTWORK AND GRILLES DOWNSTREAM OF POINT INDICATED SHALL BE WELDED STAINLESS STEEL UP UNTIL CONNECTION TO MAIN. DUCTWORK CONNECTED TO STERILIZATION EQUIPMENT SHALL BE SLOPED TOWARDS THE PIECE OF EQUIPMENT.
3. TRANSFER GRILLES SHALL BE INSTALLED ABOVE AND CENTERED OVER STERILIZER DOOR.
4. PARTIALLY DEFERRED AREA OF WORK. FURTHER DEVELOPMENT OF THIS AREA WILL BE PROVIDED AS A FUTURE BULLETIN, ONCE SITE SPECIFIC VENDOR DRAWINGS FOR ARCHITECTURALLY SIGNIFICANT EQUIPMENT ARE OBTAINED, INCLUDING BUT NOT LIMITED TO IMAGING MODALITIES, SURGICAL BOOMS, AND OR INTEGRATION SYSTEMS INFORMATION. INFORMATION CURRENTLY PROVIDED IS FOR PRICING ONLY AND IS NOT FOR CONSTRUCTION.

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
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SHEET TITLE
ENLARGED HVAC PLAN - LEVEL 00 SPD

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GENERAL NOTES:

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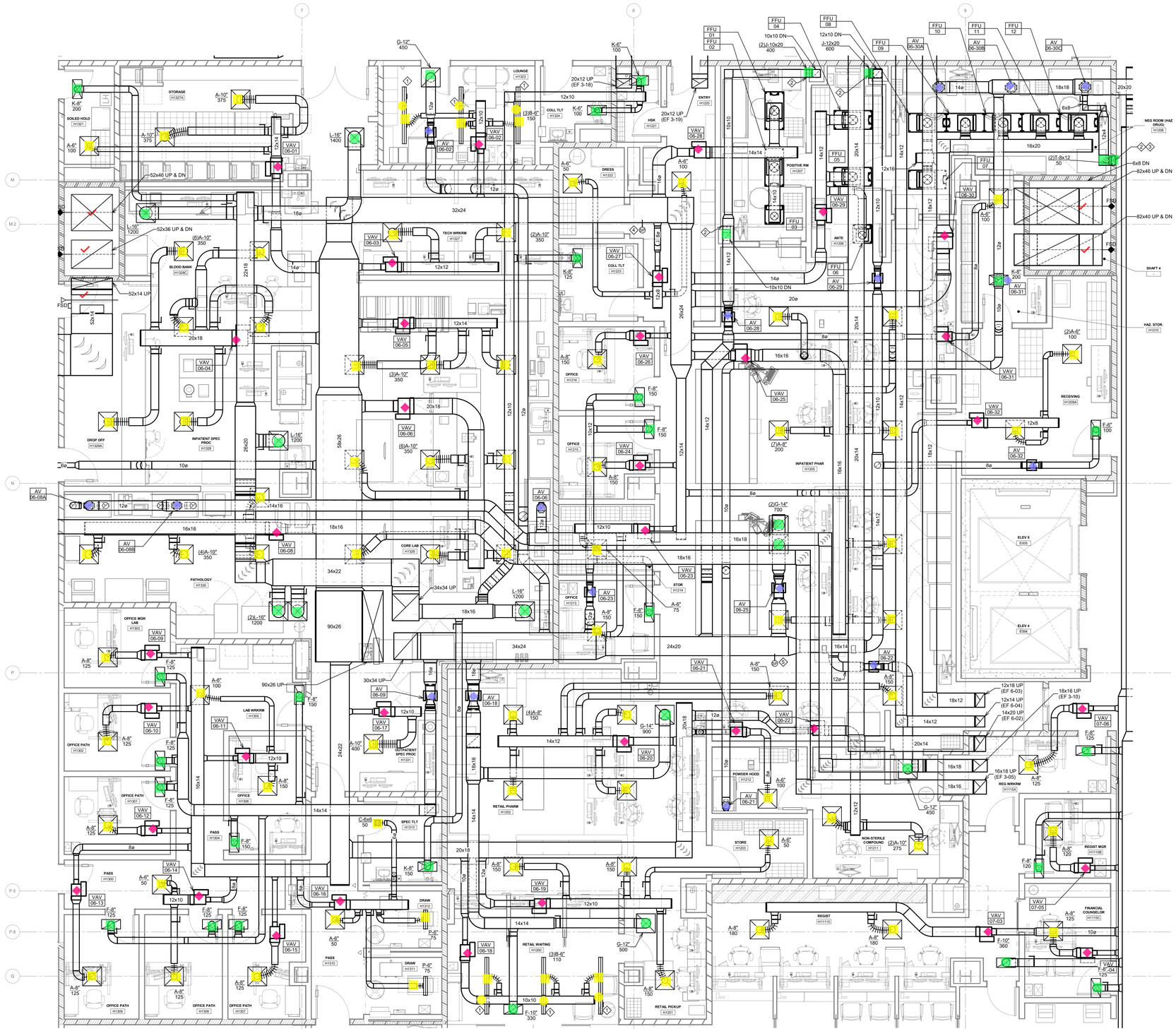
B. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS.

KEY NOTES:

1. PROVIDE 2' BLANKOFF LINEAR DIFFUSER TO MATCH THE LENGTH OF THE LIGHTS.
2. INSTALL GRILLE 10" ABOVE FINISHED FLOOR. COORDINATE ELEVATION WITH THE TOP OF FLOOR BASE.
3. INSTALL GRILLE 70" ABOVE FINISHED FLOOR. COORDINATE ELEVATION WITH THE TOP OF FLOOR BASE.
4. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 06 SUPPLY FAN CONTROL.
5. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU 06 RETURN FAN CONTROL.



1 ENLARGED HVAC PLAN - LEVEL 01 LAB & PHARMACY
1/4" = 1'-0"

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REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

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SHEET TITLE
ENLARGED HVAC PLAN - LEVEL 01 LAB & PHARMACY

SHEET NO.
M3.05

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9/22/2025 2:59 PM
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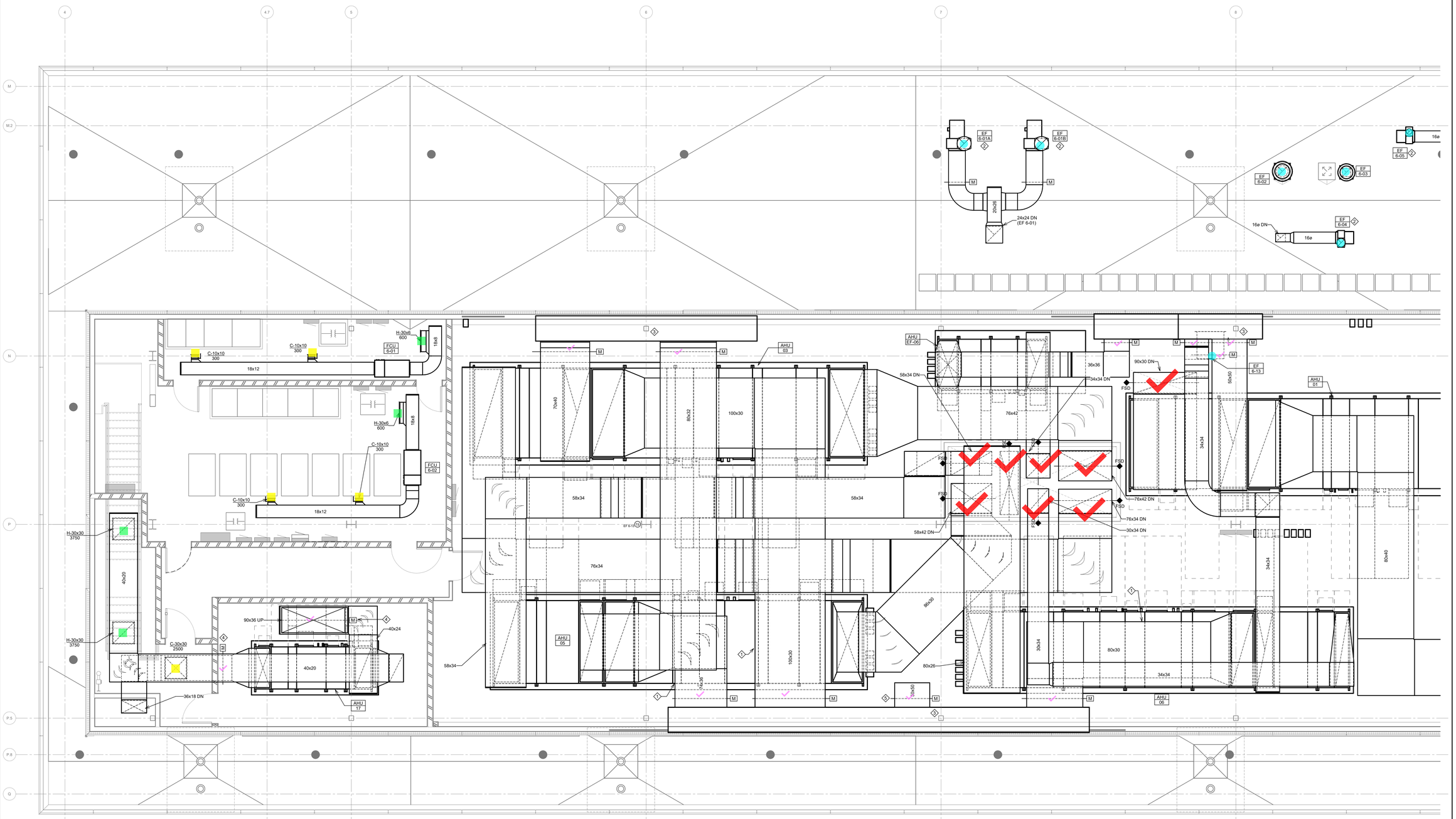
GENERAL NOTES:

A. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. PROVIDE OUTSIDE AIRFLOW MEASURING STATION.
2. PROVIDE STACK ON EXHAUST FAN. REFER TO DETAIL.
3. COLUMN WITHIN PLENUM SHALL BE WRAPPED WITH SAME MATERIAL AS THE PLENUM TO PROVIDE THERMAL BREAK.
4. PROVIDE END SWITCH ON MOTORIZED DAMPER.
5. PROVIDE 50x50 OUTSIDE AIR OPENING WITH MOTORIZED DAMPER TO BE OPEN WHEN EF 6-13 IS OPERATING.



1 ENLARGED PENTHOUSE PLAN - PENTHOUSE WEST
1/4" = 1'-0"

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MINNEAPOLIS, MN 55404

ARCHITECT OF RECORD
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125 SOUTH CLARK STREET, SUITE 1100
CHICAGO, IL 60603

ASSOCIATE ARCHITECT
BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 5424-120-001-00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
2550 UNIVERSITY AVE W SUITE 423S
SAINT PAUL, MN 55114

CIVIL ENGINEER/LANDSCAPE
LOUCKS INC.
7200 HEMLOCK LANE, SUITE 300
MAPLE GROVE, MN 55369

MEDICAL EQUIPMENT
IMEG CORP.
12755 HIGHWAY 55, SUITE 100
MINNEAPOLIS, MN 55441

ELEVATOR CONSULTANT
VDA, INC.
120 EAGLE ROCK AVENUE, SUITE 310
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MINNEAPOLIS, MN 55343

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Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26146.000
DATE
09/22/2025
ISSUE
BP-03 INTERIOR FIT-OUT MEP
SHEET TITLE
ENLARGED HVAC PLAN - LEVEL 06 PENTHOUSE WEST
SHEET NO.
M3.06

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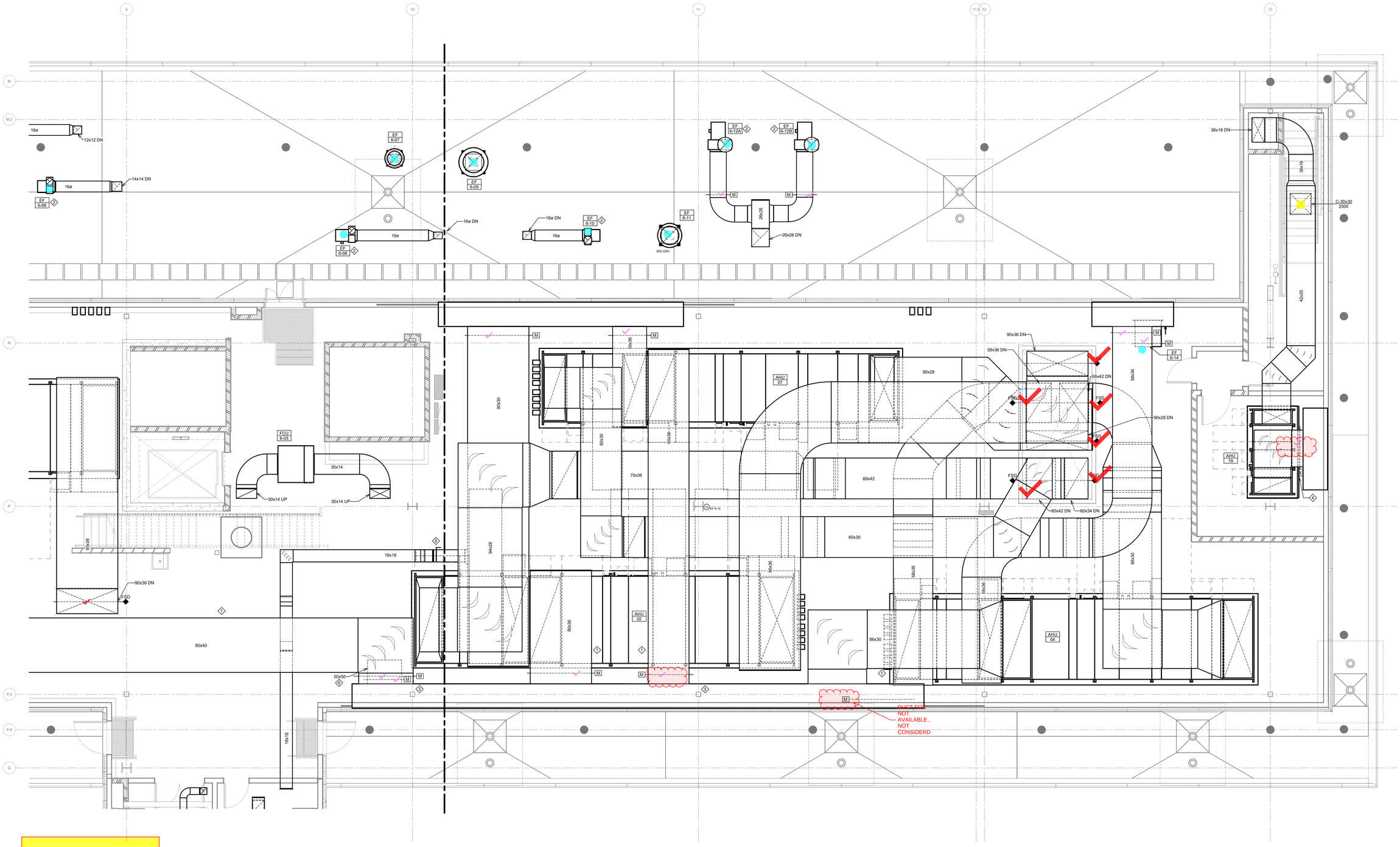
PLOT DATE: 9/18/2025 6:24:25 PM TEMPLATE VERSION: 23.0.4

GENERAL NOTES:

A. DUCTWORK TO DIFFUSERS/GRILLES SHALL BE SAME SIZE AS THE NECK SIZE INDICATED.

KEY NOTES:

1. PROVIDE OUTSIDE AIRFLOW MEASURING STATION.
2. PROVIDE STACK ON EXHAUST FAN. REFER TO DETAIL.
3. COLUMN WITHIN PLENUM SHALL BE WRAPPED WITH SAME MATERIAL AS THE PLENUM TO PROVIDE THERMAL BREAK.
4. PROVIDE END SWITCH ON MOTORIZED DAMPER.
5. BALANCE TO 800 CFM.
6. PROVIDE 50x50 OUTSIDE AIR OPENING WITH MOTORIZED DAMPER TO BE OPEN WHEN EF 6-14 IS OPERATING.



1 ENLARGED PENTHOUSE PLAN - PENTHOUSE EAST
1/4" = 1'-0"

HKS
BWBR

OWNER
HEALTHPARTNERS
3000 CURVE CREST BLVD
STILLWATER, MN 55082

OWNER'S REPRESENTATIVE
CONCORD GROUP
1000 NORTH WATER STREET SUITE 1550
MILWAUKEE, WI 53202

GENERAL CONTRACTOR
KRAUS-ANDERSON
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MINNEAPOLIS, MN 55404

ARCHITECT OF RECORD
HKS, INC.
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CHICAGO, IL 60603

ASSOCIATE ARCHITECT
BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 5424-120-001-00
50 SOUTH SIXTH STREET, SUITE 1100
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STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
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Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
ENLARGED HVAC PLAN - LEVEL 06 PENTHOUSE EAST

SHEET NO.
M3.07

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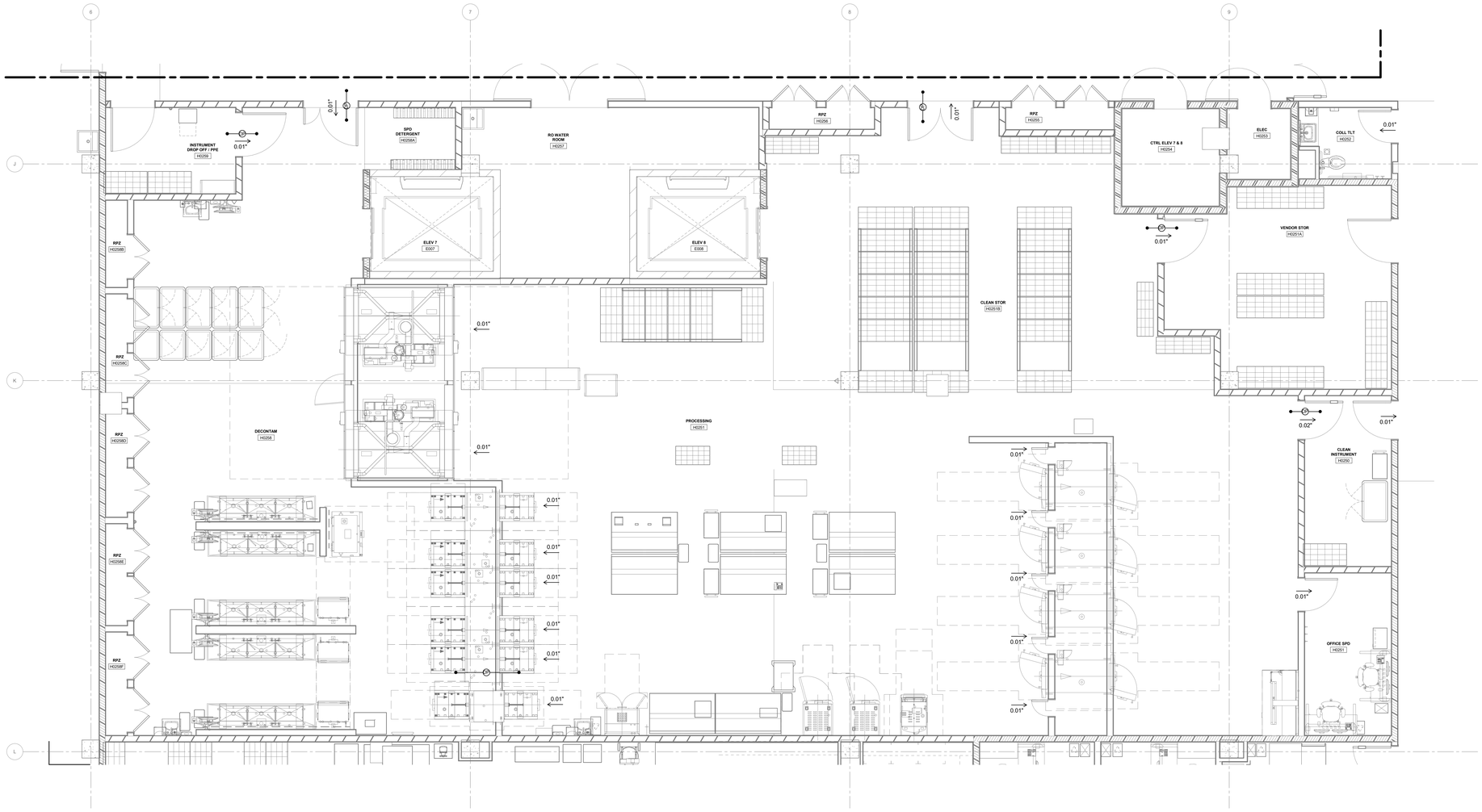
PLOT DATE: 9/18/2025 6:24:13 PM TEMPLATE VERSION: 23.0.4

GENERAL NOTES:

A. REFER TO PIPING PLANS FOR PRESSURE MONITOR DISPLAY DATA AND LOCATIONS.



1 ENLARGED PRESSURIZATION PLAN - LEVEL 00 SPD
1/4" = 1'-0"

HKS
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3000 CURVE CREST BLVD
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CONCORD GROUP
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MILWAUKEE, WI 53202

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MINNEAPOLIS, MN 55404

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ASSOCIATE ARCHITECT
BWBR
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SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 5424-120-001-00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
2550 UNIVERSITY AVE W SUITE 423S
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CIVIL ENGINEER/LANDSCAPE
LOUCKS INC.
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MEDICAL EQUIPMENT
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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
ENLARGED PRESSURIZATION PLAN - LEVEL 00 SPD

SHEET NO.
M3.20

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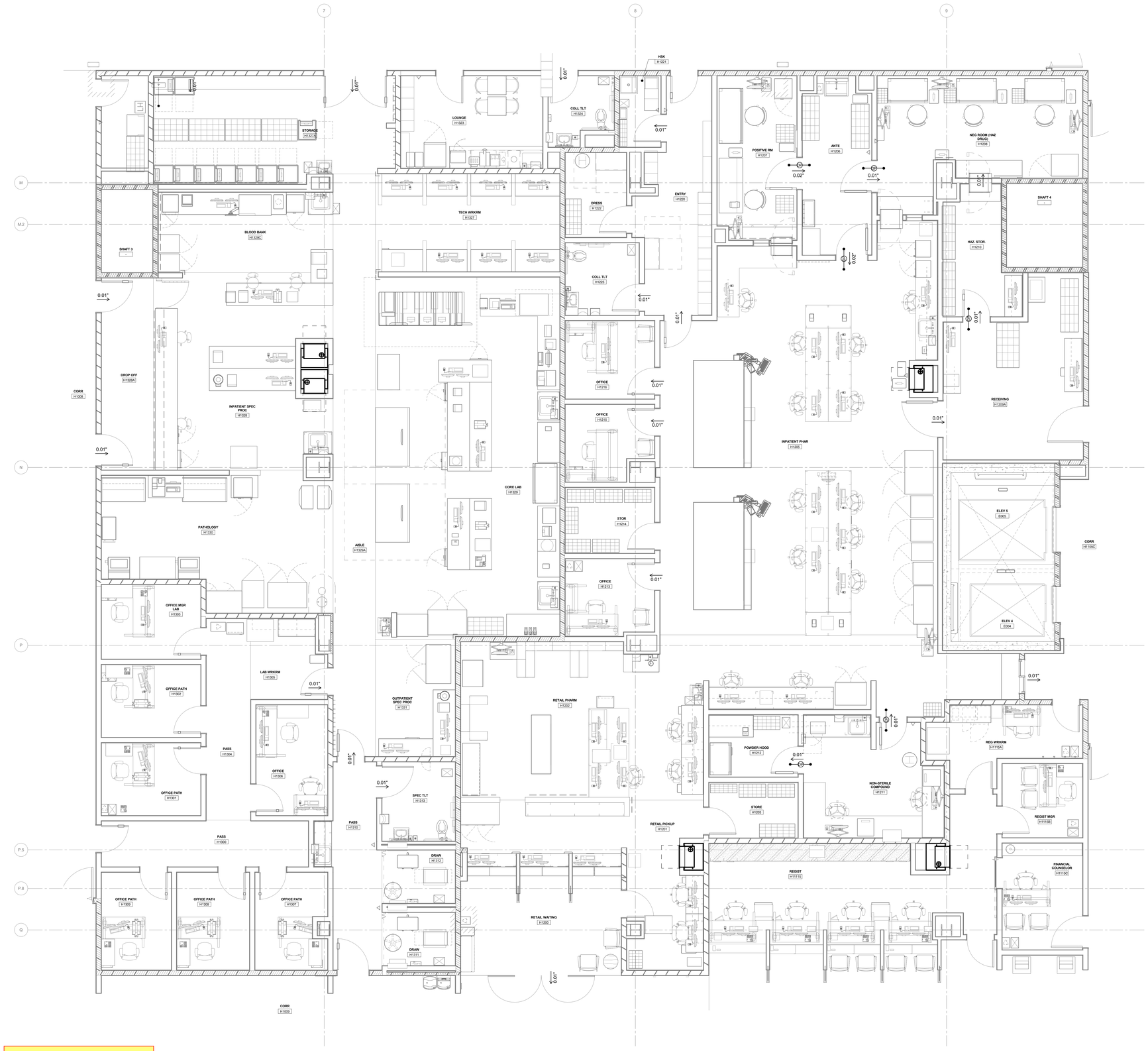
PLOT DATE: 9/18/2025 6:24:15 PM TEMPLATE VERSION 23.0.4

GENERAL NOTES:

A. REFER TO PIPING PLANS FOR PRESSURE MONITOR DISPLAY DATA AND LOCATIONS.



1 ENLARGED PRESSURIZATION PLAN - LEVEL 01 LAB & PHARMACY
1/4" = 1'-0"

HKS
BWBR

OWNER
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3000 CURVE CREST BLVD
STILLWATER, MN 55082

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MILWAUKEE, WI 53202

GENERAL CONTRACTOR
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ASSOCIATE ARCHITECT
BWBR
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SAINT PAUL, MN 55102

MEP ENGINEER
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Date 09/22/2025 Reg. No. 59587

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26146.000
DATE
09/22/2025
ISSUE
BP-03 INTERIOR FIT-OUT MEP
SHEET TITLE
ENLARGED PRESSURIZATION PLAN - LEVEL 01 LAB & PHARMACY
SHEET NO.
M3.21

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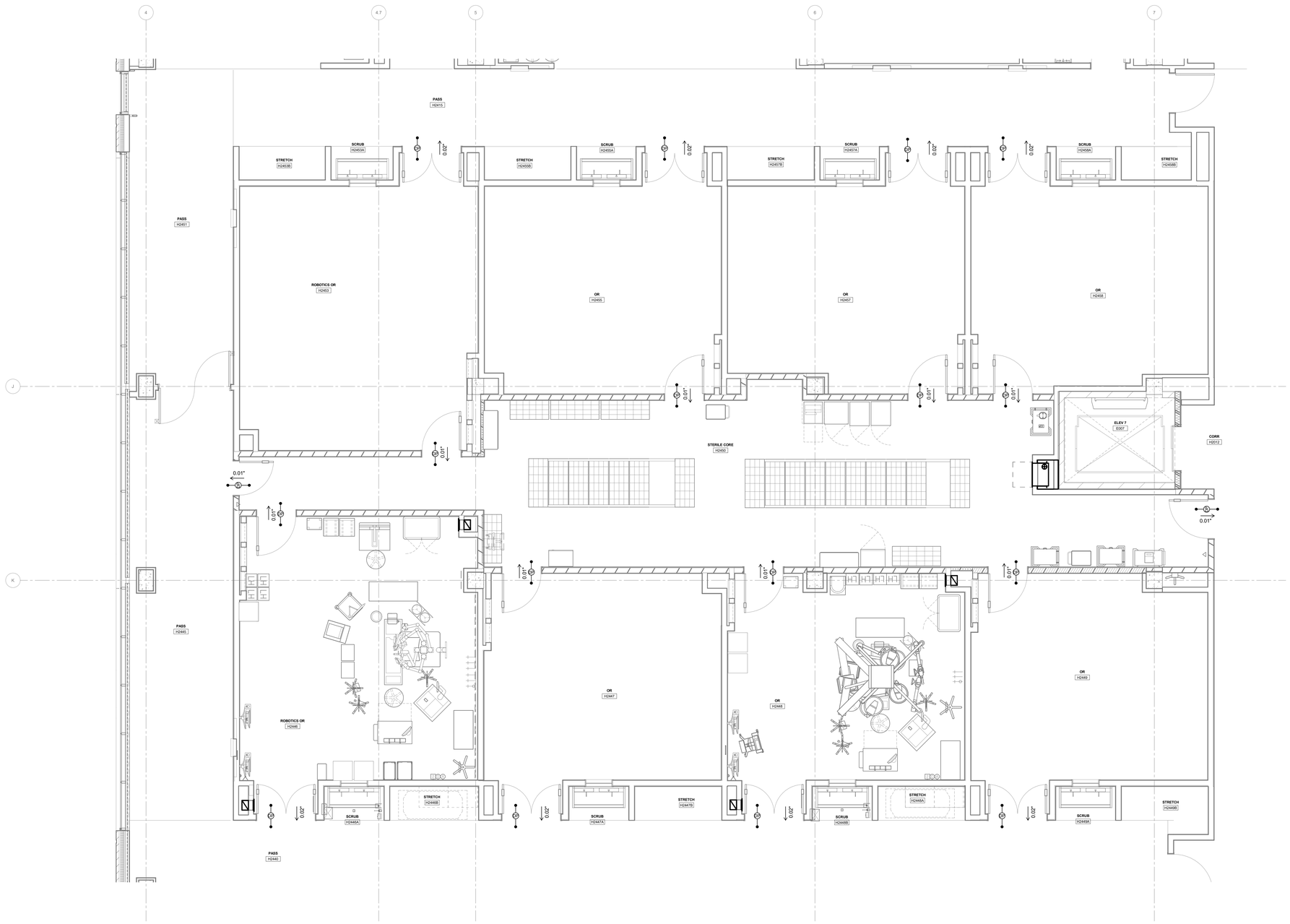
PLOT DATE: 9/19/2025 12:21:21 AM TEMPLATE VERSION: 23.0.4

GENERAL NOTES:

A. REFER TO PIPING PLANS FOR PRESSURE MONITOR DISPLAY DATA AND LOCATIONS.



1 ENLARGED PRESSURIZATION PLAN - LEVEL 02 WEST OPERATING SUITE
1/4" = 1'-0"

PLOT DATE:
9/19/2025 12:21:22 AM TEMPLATE VERSION 23.0.4

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3000 CURVE CREST BLVD
STILLWATER, MN 55082

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BWBR
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SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 5420-126-001-00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
ENLARGED PRESSURIZATION PLAN - LEVEL 02 WEST OPERATING SUITE

SHEET NO.
M3.22

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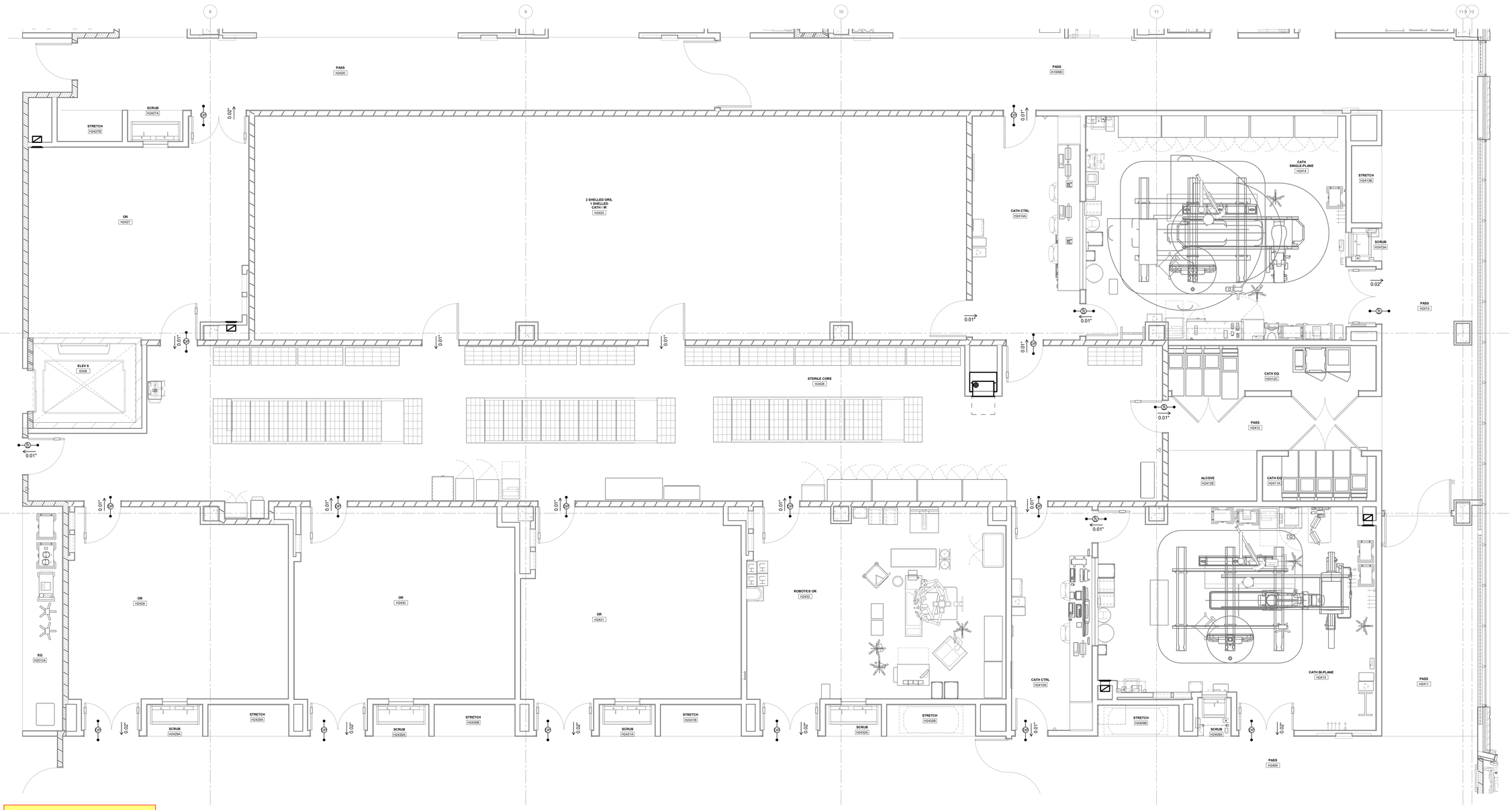
GENERAL NOTES:

A. REFER TO PIPING PLANS FOR PRESSURE MONITOR DISPLAY DATA AND LOCATIONS.



1 ENLARGED PRESSURIZATION PLAN - LEVEL 02 EAST OPERATING SUITE
1/4" = 1'-0"

PLOT DATE: 9/16/2025 6:24:25 PM TEMPLATE VERSION: 23.0.4

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BWBR

OWNER
HEALTHPARTNERS
3000 CURVE CREST BLVD
STILLWATER, MN 55082

OWNER'S REPRESENTATIVE
CONCORD GROUP
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BWBR
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SAINT PAUL, MN 55102

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
ENLARGED PRESSURIZATION PLAN - LEVEL 02 EAST OPERATING SUITE

SHEET NO.
M3.23

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GENERAL NOTES:

A. EXACT LOCATION/ELEVATION FOR EQUIPMENT VENTING CONNECTIONS SHALL BE VERIFIED WITH THE SHOP DRAWINGS THAT HAVE BEEN STAMPED FOR APPROVAL. MARK ROUGH-IN LOCATIONS FOR COORDINATION WITH OTHER AFFECTED TRADES PRIOR TO ANY INSTALLATION EFFORTS.

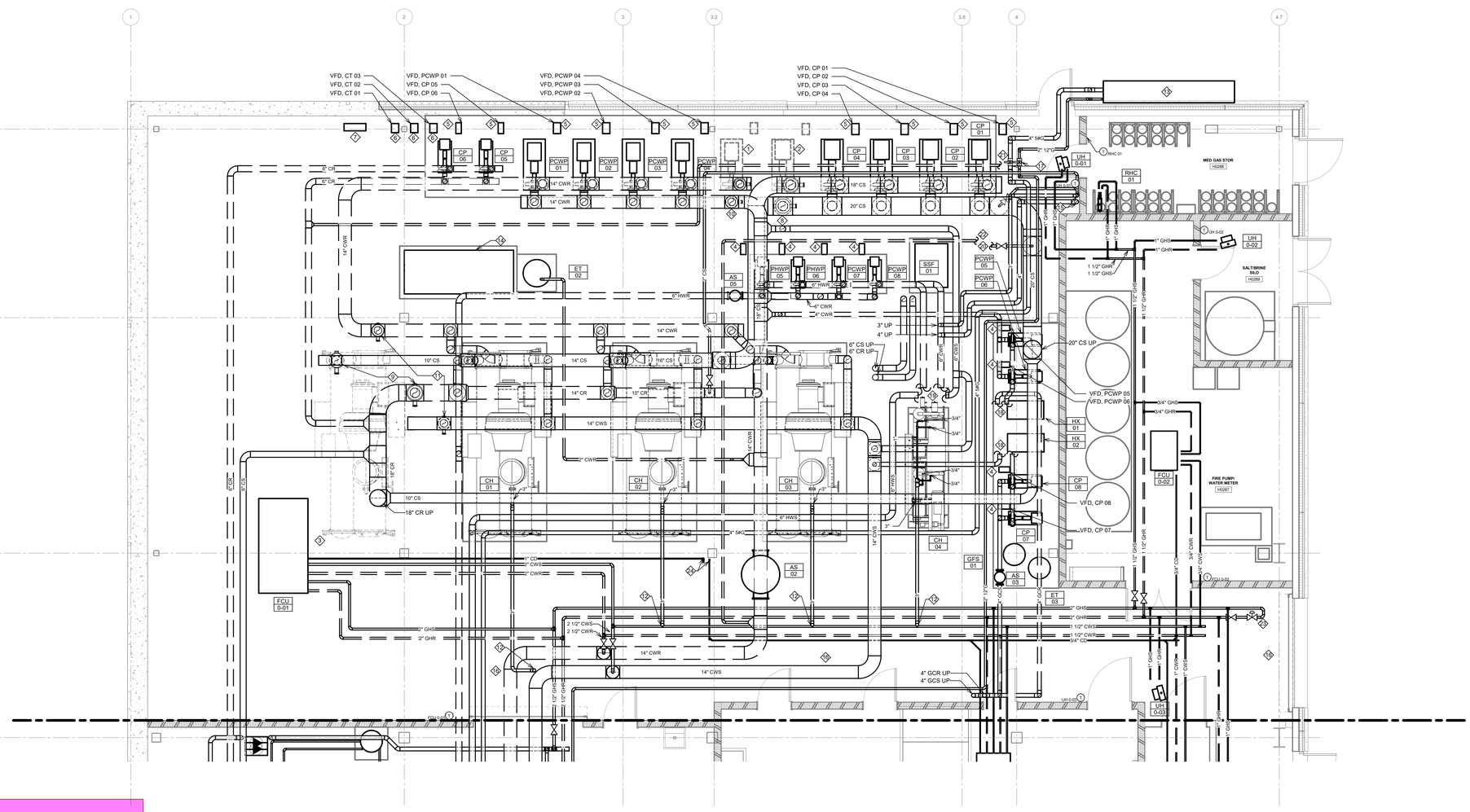
B. COORDINATE WITH PROJECT SPECIFICATION MANUAL AND DRAWING DETAILS FOR ADDITIONAL PIPING ISOLATION VALVES, STRAINERS, TEMPERATURE/PRESSURE GAUGES, BALANCING VALVES, DRAINS, VENTS, AND OTHER REQUIRED PIPING ACCESSORIES AND COMPONENTS THAT MAY NOT BE DIRECTLY INDICATED ON THIS DRAWING.

C. THE MECHANICAL CONTRACTOR WILL BE RESPONSIBLE TO SEAL AND PROTECT ALL PIPING ON SITE FROM CONSTRUCTION DEBRIS AND CONTAMINATION.

D. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING, (STACKED OR RACKED) THROUGHOUT BUILDING.

KEY NOTES:

1. FUTURE PRIMARY CHILLED WATER PUMP AND VFD.
2. FUTURE CONDENSER WATER PUMP AND VFD.
3. FUTURE CHILLER.
4. PROVIDE UNISTRUT STAND FOR PUMP VFD.
5. MOUNT PUMP VFD ON WALL.
6. MOUNT COOLING TOWER VFD ON WALL.
7. BAS CONTROL PANEL.
8. PROVIDE ONE (1) 10" CS AND ONE (1) 10" CR TAKE-OFF WITH VALVE AND CAPPED FOR CONNECTION TO FUTURE PUMP.
9. PROVIDE ONE (1) 10" CS AND ONE (1) 10" CR TAKE-OFF WITH VALVE AND CAPPED FOR CONNECTION TO FUTURE CHILLER.
10. PROVIDE ONE (1) 8" CWS AND ONE (1) 8" CWR TAKE-OFF WITH VALVE AND CAPPED FOR CONNECTION TO FUTURE PUMP.
11. PROVIDE ONE (1) 8" CWS AND ONE (1) 8" CWR TAKE-OFF WITH VALVE AND CAPPED FOR CONNECTION TO FUTURE CHILLER.
12. CHILLER REFRIGERANT RELIEF VENT THROUGH ROOF.
13. COORDINATE WITH UTILITY TO PROVIDE TWO NATURAL GAS METERS WITH PRESSURE REDUCING STATIONS. ONE METER SHALL SUPPLY 5 PSIG NATURAL GAS, THE OTHER SHALL PROVIDE 12 IN W.C. NATURAL GAS.
14. CHEMICAL TREATMENT SYSTEM FOR CHILLED AND CONDENSER WATER SYSTEMS.
15. 4" TOWER BASIN OVERFLOW AND 3" TOWER BASIN DRAIN DOWN TO 6" STANDPIPE.
16. REFER TO NOTE 7 ON SHEET M3.00 FOR MINIMUM MOUNTING HEIGHT AND BOUNDARY OF EQUIPMENT REPLACEMENT PATH.
17. MAIN SHUTOFF VALVES. MOUNT 4'-0" AFF.
18. REFER TO CHILLED WATER SCHEMATIC FOR PIPING CONTINUATION TO HEAT EXCHANGERS
19. CONNECT HWS, HWR, CWS AND CWR PIPING TO CHILLER. REFER TO WATER CHILLER PIPING DETAIL FOR CONTINUATION.
20. 2" CONDENSER WATER MAKE UP. REFER TO PLUMBING PLANS FOR CONTINUATION.
21. ROUTE 2" CONDENSER BLOW DOWN TO DRAIN.
22. 2" CHILLED WATER FILL. REFER TO PLUMBING PLANS FOR CONTINUATION.
23. 1-1/2" END OF MAIN BYPASS SIZED FOR 30 GPM.
24. ROUTE CONDENSATE PIPING DOWN COLUMN TO PLUMBING DRAIN.



1 ENLARGED PIPING PLAN - LEVEL 00 CUP NORTH
1/4" = 1'-0"

HKS
BWBR

OWNER
HEALTHPARTNERS
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BWBR
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MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 0424-120-001-00
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ERA STRUCTURAL ENGINEERING
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LOUCKS INC.
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MEDICAL EQUIPMENT
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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
ENLARGED PIPING PLAN - LEVEL 00 CUP NORTH

SHEET NO.
M3.50

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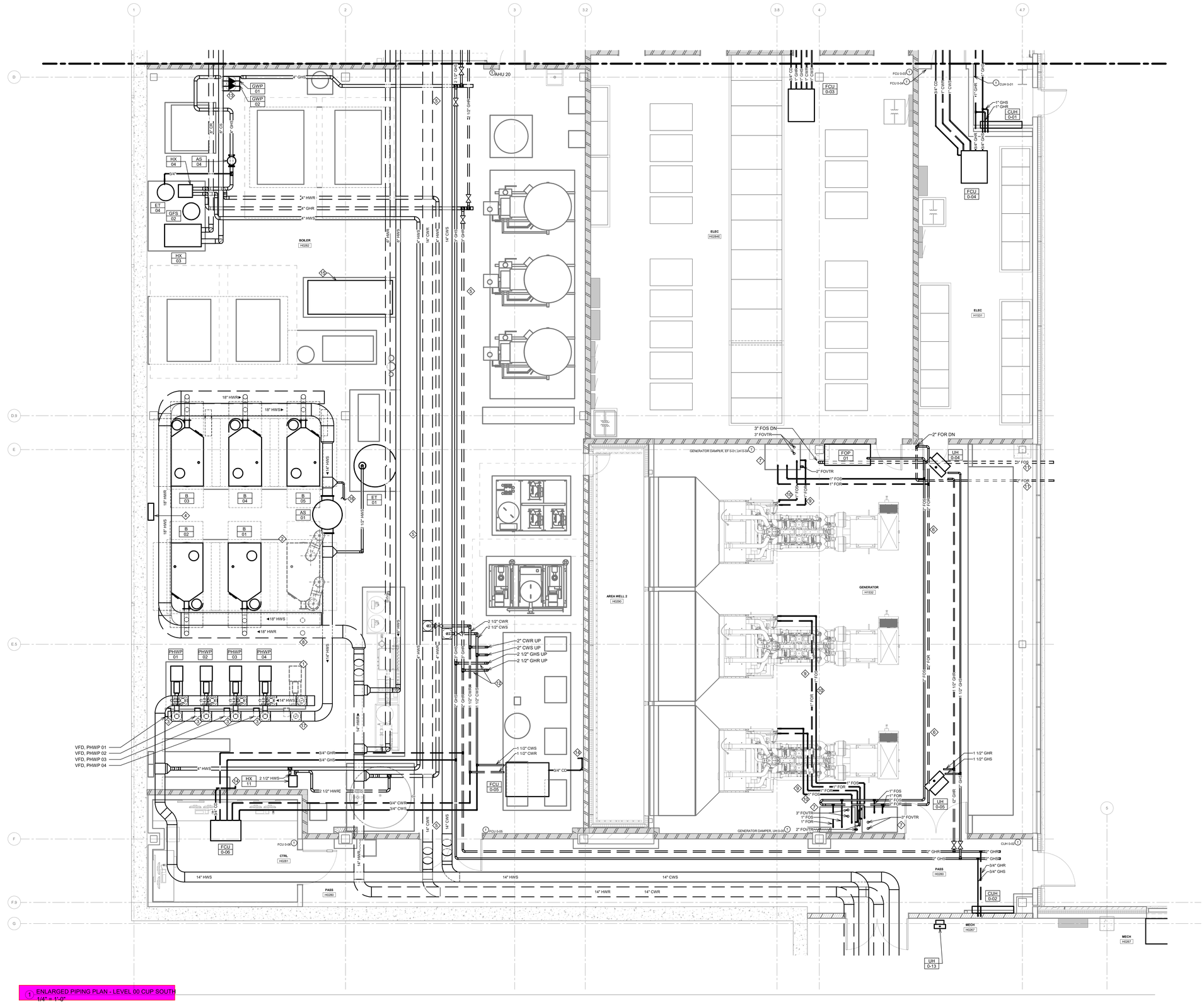
PLOT DATE: 9/18/2025 6:24:39 PM TEMPLATE VERSION: 23.3.4



1 ENLARGED PIPING PLAN - LEVEL 00 CUP SOUTH
1/4" = 1'-0"

GENERAL NOTES:

A. EXACT LOCATION/ELEVATION FOR EQUIPMENT VENTING CONNECTIONS SHALL BE VERIFIED WITH THE SHOP DRAWINGS THAT HAVE BEEN STAMPED FOR APPROVAL. MARK ROUGH-IN LOCATIONS FOR COORDINATION WITH OTHER AFFECTED TRADES PRIOR TO ANY INSTALLATION EFFORTS.

B. COORDINATE WITH PROJECT SPECIFICATION MANUAL AND DRAWING DETAILS FOR ADDITIONAL PIPING ISOLATION VALVES, STRAINERS, TEMPERATURE/PRESSURE GAUGES, BALANCING VALVES, DRAINS, VENTS, AND OTHER REQUIRED PIPING ACCESSORIES AND COMPONENTS THAT MAY NOT BE DIRECTLY INDICATED ON THIS DRAWING.

C. THE MECHANICAL CONTRACTOR WILL BE RESPONSIBLE TO SEAL AND PROTECT ALL PIPING ON SITE FROM CONSTRUCTION DEBRIS AND CONTAMINATION.

D. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING, (STACKED OR RACKED) THROUGHOUT BUILDING.

KEY NOTES:

1. FUTURE PRIMARY HEATING WATER PUMP AND VFD.
2. FUTURE HEATING WATER BOILER.
3. PROVIDE UNISTRUT STAND FOR PUMP VFD.
4. BAS CONTROL PANEL.
5. REFER TO NOTE 17 ON SHEET M3.01 FOR MINIMUM MOUNTING HEIGHT AND BOUNDARY OF EQUIPMENT REPLACEMENT PATH.
6. MOUNT FUEL OIL PIPING 17'-6" AFF TO KEEP OUT OF GENERATOR AIR INTAKE AIRFLOW.
7. DAY TANK WITH FUEL OIL RETURN PUMP PURCHASED BY ELECTRICAL INSTALLED BY MECHANICAL. REFER TO DAY TANK DETAIL AND FUEL OIL SCHEMATIC.
8. PROVIDE ONE (1) 6" HWS AND ONE (1) 6" HWR TAKE-OFF WITH VALVE AND CAPPED FOR CONNECTION TO FUTURE BOILER.
9. FUEL OIL PIPING BETWEEN DAY TANK AND GENERATOR SHALL BE WELDED FITTINGS AND JOINTS.
10. PROVIDE WITH PRIMING TEE AT THE HIGHEST POINT OF THE FUEL OIL SUPPLY PIPING. MOUNT PIPE AT 9'-0" AFF.
11. DASHED LINES INDICATES PIPING IS BELOW THE SLAB. PROVIDE SLEEVE SEAL SYSTEM AT WALL PENETRATION. SEE MECHANICAL SITE PLAN FOR CONTINUATION. INVERT 935.25 (CIVIL).
12. PROVIDE SHUTOFF VALVES IN GHS AND GHR PIPING AT TAKE-OFF FOR AHU 20.
13. PROVIDE SUPPORT FOR PUMPS MOUNTED AGAINST WALL. MOUNT BOTTOM PUMP A MINIMUM OF 12" AFF. TOP OF PUMP SHALL NOT BE HIGHER THAN 72" AFF.
14. ROUTE CONDENSATE PIPING DOWN COLUMN TO PLUMBING DRAIN.
15. CHEMICAL TREATMENT SYSTEM FOR STEAM AND HEATING WATER SYSTEMS.
16. 1-1/2" HEATING WATER FILL. REFER TO PLUMBING PLANS FOR CONTINUATION.
17. PROVIDE ONE (1) 6" HWS AND ONE (1) 6" HWR TAKE-OFF WITH VALVE AND CAPPED FOR CONNECTION TO FUTURE PUMP.

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Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

KEY PLAN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
ENLARGED PIPING PLAN - LEVEL 00 CUP SOUTH

SHEET NO.
M3.51

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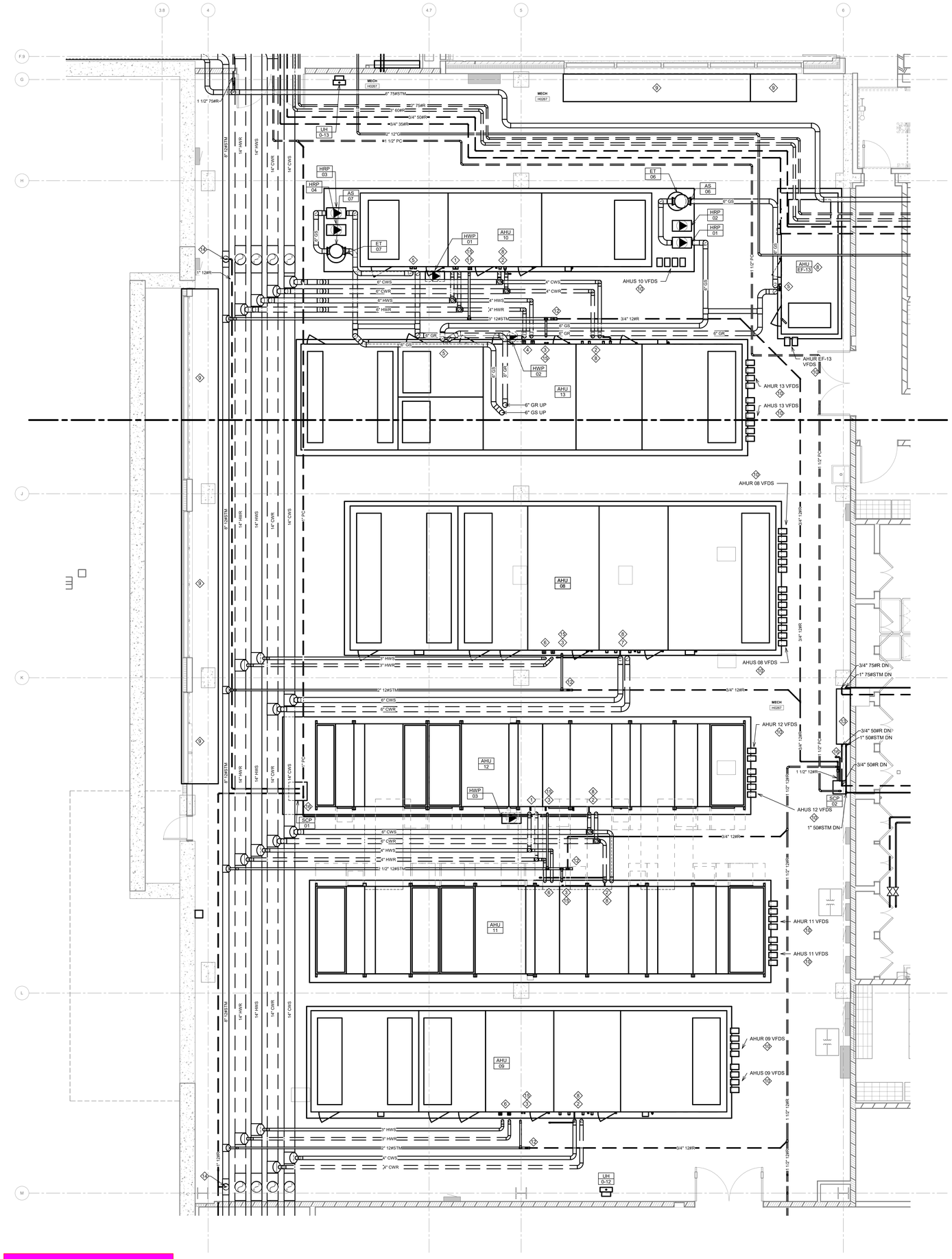

1 ENLARGED PIPING PLAN - LEVEL 00 MECH ROOM
1/4" = 1'-0"

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

B. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. ROUTE 4" HEATING WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT HEATING WATER COIL. PROVIDE HEATING WATER PUMP FOR PUMPED COIL PIPING ARRANGEMENT.
2. ROUTE 4" CHILLED WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT CHILLED WATER COIL.
3. ROUTE 2" 12# STEAM PIPING TO AIR HANDLING UNIT HUMIDIFIER MANIFOLD.
4. ROUTE 3" HEATING WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT HEATING WATER COIL. PROVIDE HEATING WATER PUMP FOR PUMPED COIL PIPING ARRANGEMENT.
5. ROUTE 6" GLYCOL SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT HEAT RECOVERY COIL. REFER TO DETAIL FOR SYSTEM PIPING ARRANGEMENT.
6. ROUTE 3" HEATING WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT HEATING WATER COIL.
7. ROUTE 6" CHILLED WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT CHILLED WATER COIL.
8. ROUTE DRAINS FROM AIR HANDLING UNIT DRAIN PANS TO FLOOR DRAIN.
9. ROUTE DRAINS FROM PLENUM TO FLOOR DRAIN.
10. PROVIDE UNISTRUT RACK FOR MOUNTING VFDs.
11. ROUTE 2-1/2" 12# STEAM PIPING TO AIR HANDLING UNIT HUMIDIFIER MANIFOLD.
12. 3/4" 12# RETURN PIPING FROM END OF MAIN STEAM TRAP.
13. STEAM PRESSURE REDUCING STATION.
14. PROVIDE STEAM TRAP AT PIPING CHANGE IN ELEVATION. LOCATE AS HIGH AS POSSIBLE AND PIPE DISCHARGE TO CONDENSATE PUMP.
15. ROUTE 3/4" DISCHARGE FROM STEAM SEPARATOR TRAP TO 12# RETURN PIPE.
16. ROUTE DRAIN FROM CONDENSATE RECEIVER TO FLOOR DRAIN.

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
ENLARGED PIPING PLAN - LEVEL 00 MECH ROOM

SHEET NO.
M3.52

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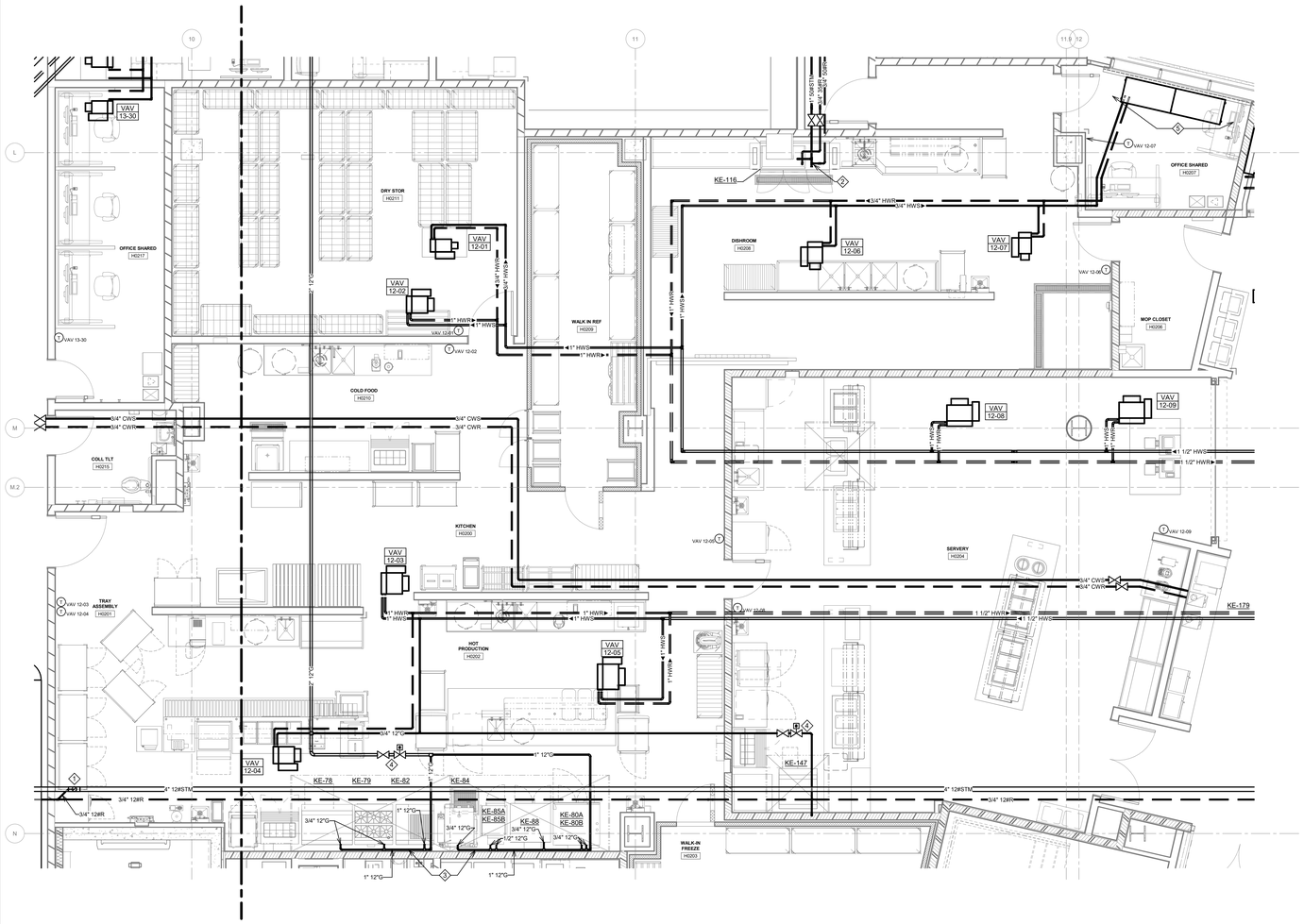

HYDRONIC PLAN - LEVEL 00 - ENLARGED KITCHEN PLAN
1/4" = 1'-0"

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

B. ALL HEATING WATER SUPPLY AND HEATING WATER RETURN PIPE RUN OUTS TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE ISOLATION BALL VALVES AT ALL PIPING TAKE-OFFS TO RUN OUTS SERVING TWO (2) OR MORE PIECES OF EQUIPMENT.

C. COORDINATION OF SCHEDULES WITH IMPACTED DEPARTMENTS, MAINTAINING CONSTRUCTION BOUNDARIES FOR INFECTION CONTROL AND CLEANING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BID.

KEY NOTES:

1. PROVIDE STEAM TRAP AT PIPING CHANGE IN ELEVATION. LOCATE AS HIGH AS POSSIBLE AND PIPE DISCHARGE BACK TO 12# RETURN.
2. 3/4" 50# RETURN PIPING FROM END OF MAIN STEAM TRAP.
3. ROUTE NATURAL GAS PIPING AGAINST WALL OF HOOD ENCLOSURE FOR EASE OF ROUTE MODIFICATION IN FUTURE. PROVIDE FIELD FABRICATED STAINLESS STEEL GUARDS AROUND GAS PIPING TO PREVENT KITCHEN EQUIPMENT FROM SLIDING BACK INTO PIPING.
4. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR DETAILS ON INSTALLATION OF GAS SHUT OFF VALVES ASSOCIATED WITH THE KITCHEN HOOD FIRE SUPPRESSION SYSTEMS.
5. PROVIDE INACTIVE RADIANT PANELS TO COMPLETE WALL TO WALL FINISH. CONTRACTOR TO FIELD MEASURE LENGTH OF CEILING PLENUM. REFER TO REFLECTED CEILING PLANS FOR EXTENTS.

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
ENLARGED PIPING PLAN - LEVEL 00 KITCHEN

SHEET NO.
M3.53

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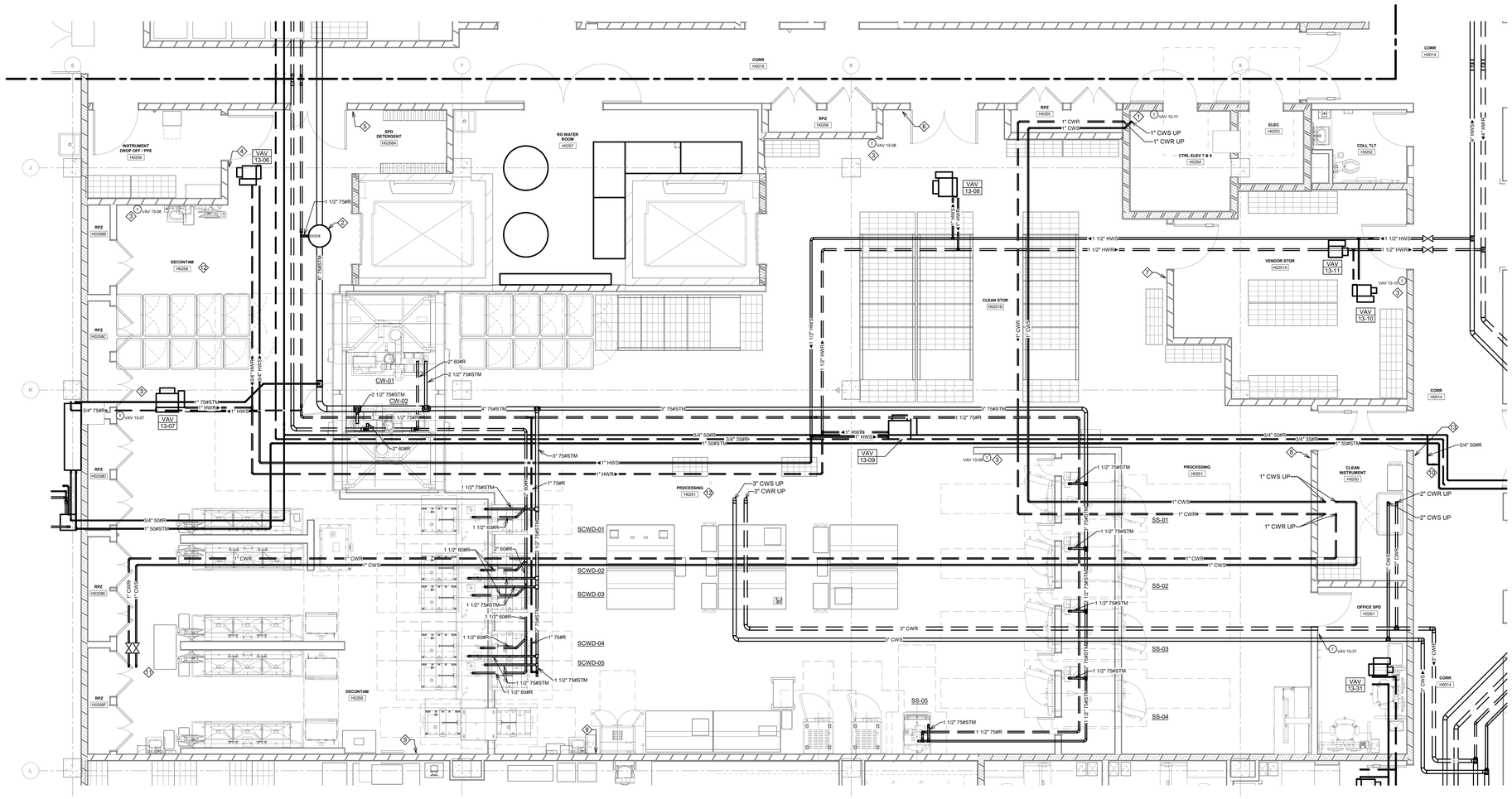

1 HYDRONIC PLAN - LEVEL 00 - ENLARGED STERILE PROCESSING DEPARTMENT
1/4" = 1'-0"

GENERAL NOTES:

A. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING (STACKED OR RACKED) THROUGHOUT THE BUILDING.

B. ALL HEATING WATER SUPPLY AND HEATING WATER RETURN PIPE RUN OUTS TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE ISOLATION BALL VALVES AT ALL PIPING TAKE-OFFS TO RUN OUTS SERVING TWO (2) OR MORE PIECES OF EQUIPMENT.

C. COORDINATION OF SCHEDULES WITH IMPACTED DEPARTMENTS, MAINTAINING CONSTRUCTION BOUNDARIES FOR INFECTION CONTROL AND CLEANING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BID.

KEY NOTES:

1. ROUTE CHILLED WATER PIPING UP TO CT SCANNER. COORDINATE WITH CT EQUIPMENT MANUFACTURER AND EQUIPMENT DRAWINGS FOR CHILLED WATER CONNECTION TO CT SCANNER.
2. PROVIDE STEAM SEPARATOR ON HIGH PRESSURE STEAM SUPPLY TO STERILE PROCESSING DEPARTMENT.
3. PROVIDE COMBINATION THERMOSTAT/HUMIDISTAT.
4. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN DECONTAM AND INSTRUMENT DROP OFF. PROVIDE DOOR SWITCH.
5. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN DECONTAM AND CORRIDOR. PROVIDE DOOR SWITCH.
6. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN CLEAN STOR AND CORRIDOR. PROVIDE DOOR SWITCH.
7. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN CLEAN STOR AND VENDOR STOR. PROVIDE DOOR SWITCH.
8. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN PROCESSING AND CLEAN INSTRUMENT. PROVIDE DOOR SWITCH.
9. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN DECONTAM AND PROCESSING.
10. PROVIDE STEAM TRAP. LOCATE AS HIGH AS POSSIBLE AND PIPE DISCHARGE BACK TO 50# RETURN.
11. ROUTE CHILLED WATER PIPING BELOW CT SCANNER. VALVE AND CAP FOR FUTURE CONNECTION.
12. PARTIALLY DEFERRED AREA OF WORK. FURTHER DEVELOPMENT OF THIS AREA WILL BE PROVIDED AS A FUTURE BULLETIN, ONCE SITE SPECIFIC VENDOR DRAWINGS FOR ARCHITECTURALLY SIGNIFICANT EQUIPMENT ARE OBTAINED, INCLUDING BUT NOT LIMITED TO IMAGING MODALITIES, SURGICAL BOOMS, AND OR INTEGRATION SYSTEMS INFORMATION. INFORMATION CURRENTLY PROVIDED IS FOR PRICING ONLY AND IS NOT FOR CONSTRUCTION.
13. PROVIDE ROOM PRESSURE MONITOR TO MONITOR PRESSURE DIFFERENTIAL BETWEEN CORRIDOR AND CLEAN INSTRUMENT. PROVIDE DOOR SWITCH.

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
ENLARGED PIPING PLAN - LEVEL 00 SPD

SHEET NO.
M3.54

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GENERAL NOTES:

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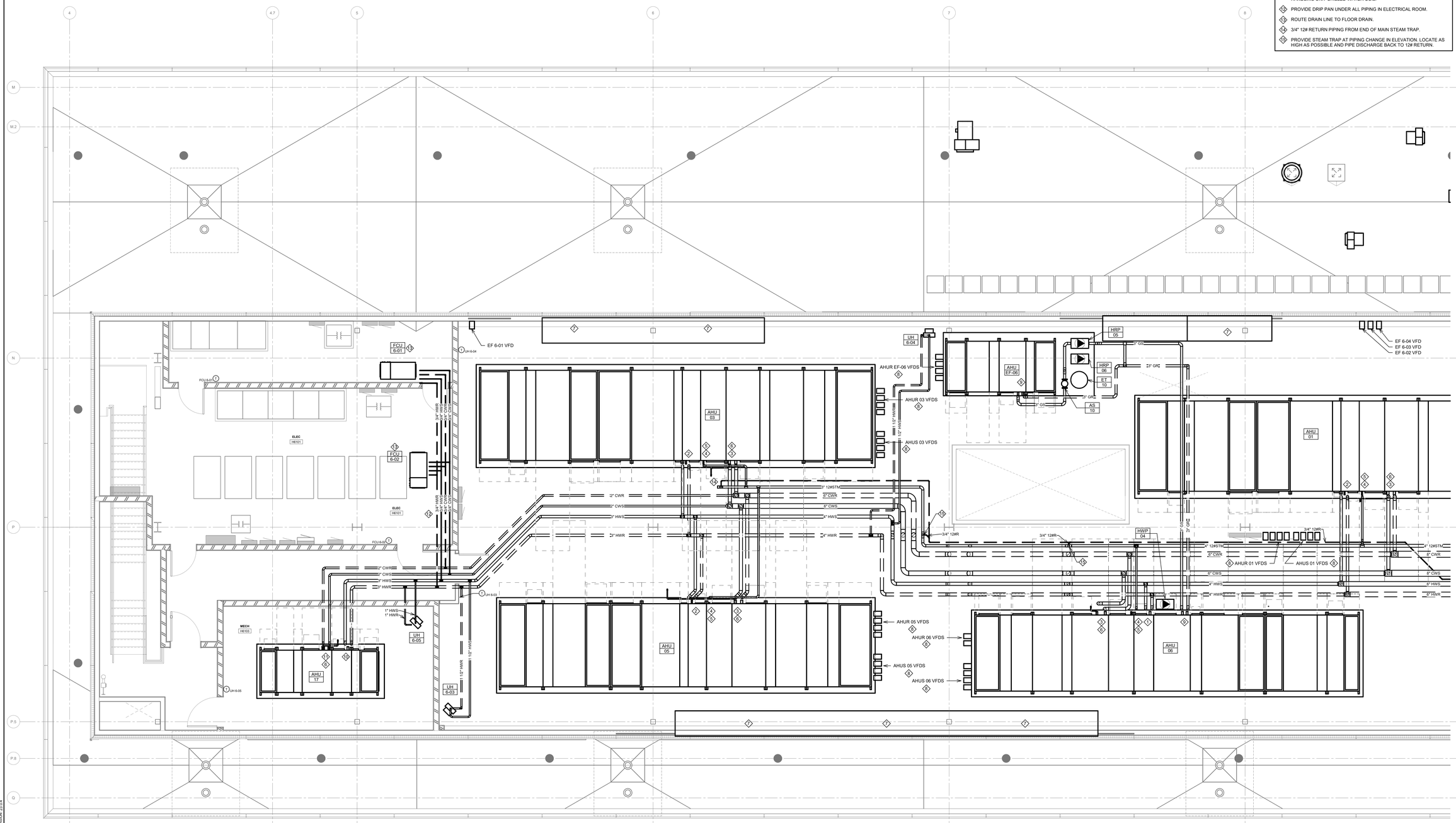
B. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. ROUTE 3" HEATING WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT HEATING WATER COIL. PROVIDE HEATING WATER PUMP FOR PUMPED COIL PIPING ARRANGEMENT.
2. ROUTE 3" HEATING WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT HEATING WATER COIL.
3. ROUTE 4" CHILLED WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT CHILLED WATER COIL.
4. ROUTE 2" 12# STEAM PIPING TO AIR HANDLING UNIT HUMIDIFIER MANIFOLD.
5. ROUTE 3/4" DISCHARGE FROM STEAM SEPARATOR TRAP TO 12# RETURN PIPE.
6. ROUTE DRAINS FROM AIR HANDLING UNIT DRAIN PANS TO FLOOR DRAIN.
7. ROUTE DRAINS FROM PLENUM TO FLOOR DRAIN.
8. PROVIDE UNISTRUT RACK FOR MOUNTING VFDs.
9. ROUTE 3" GLYCOL SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT HEAT RECOVERY COIL. REFER TO DETAIL FOR SYSTEM PIPING ARRANGEMENT.
10. ROUTE 3" HEATING WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT HEATING WATER COIL. PIPE COILS IN A 1/3-2/3 VALVE CONFIGURATION.
11. ROUTE 2" CHILLED WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT CHILLED WATER COIL.
12. PROVIDE DRIP PAN UNDER ALL PIPING IN ELECTRICAL ROOM.
13. ROUTE DRAIN LINE TO FLOOR DRAIN.
14. 3/4" 12# RETURN PIPING FROM END OF MAIN STEAM TRAP.
15. PROVIDE STEAM TRAP AT PIPING CHANGE IN ELEVATION. LOCATE AS HIGH AS POSSIBLE AND PIPE DISCHARGE BACK TO 12# RETURN.



1 ENLARGED PIPING PLAN - LEVEL 06 PENTHOUSE WEST
1/4" = 1'-0"

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Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26146.000
DATE
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BP-03 INTERIOR FIT-OUT MEP
SHEET TITLE
ENLARGED PIPING PLAN - LEVEL 06 PENTHOUSE WEST
SHEET NO.
M3.55

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GENERAL NOTES:

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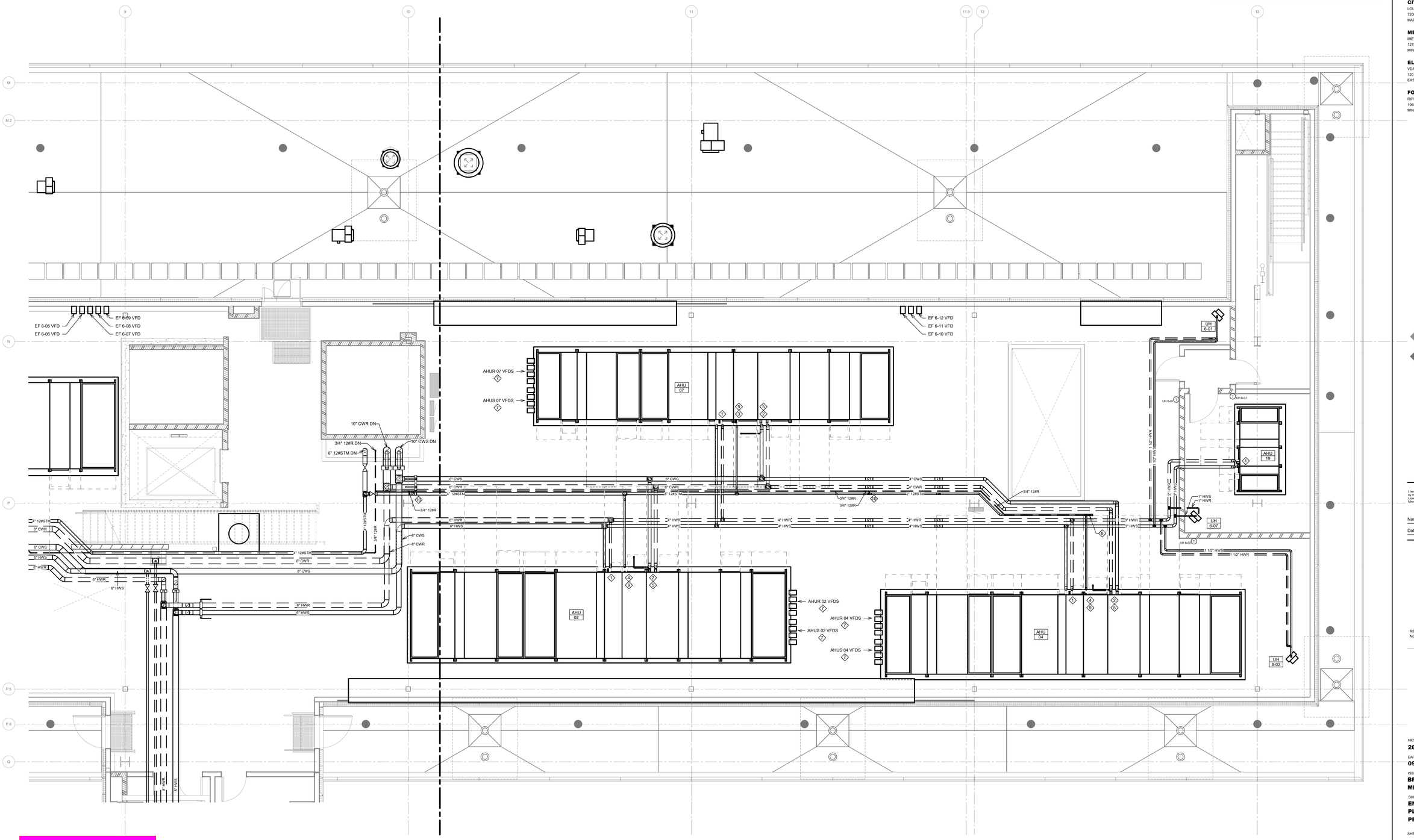
B. ALL PIPING CONCEALED WITHIN SHAFTS, OR OTHERWISE INACCESSIBLE, SHALL BE CONSTRUCTED WITH STEEL PIPING AND WELDED FITTINGS.

KEY NOTES:

1. ROUTE 3" HEATING WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT HEATING WATER COIL.
2. ROUTE 4" CHILLED WATER SUPPLY AND RETURN PIPING TO AIR HANDLING UNIT CHILLED WATER COIL.
3. ROUTE 1-1/2" 12# STEAM PIPING TO AIR HANDLING UNIT HUMIDIFIER MANIFOLD.
4. ROUTE 2" 12# STEAM PIPING TO AIR HANDLING UNIT HUMIDIFIER MANIFOLD.
5. ROUTE DRAINS FROM AIR HANDLING UNIT DRAIN PANS TO FLOOR DRAIN.
6. ROUTE DRAINS FROM PLENUM TO FLOOR DRAIN.
7. PROVIDE UNISTRUT RACK FOR MOUNTING VFDs.
8. 3/4" 12# RETURN PIPING FROM END OF MAIN STEAM TRAP.
9. ROUTE 3/4" DISCHARGE FROM STEAM SEPARATOR TRAP TO 12# RETURN PIPE.
10. PROVIDE STEAM TRAP AT PIPING CHANGE IN ELEVATION. LOCATE AS HIGH AS POSSIBLE AND PIPE DISCHARGE BACK TO 12# RETURN.



1 ENLARGED PIPING PLAN - LEVEL 06 PENTHOUSE EAST
1/4" = 1'-0"

PLOT DATE: 9/18/2025 6:25:23 PM TEMPLATE VERSION: 23.0.4

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Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
ENLARGED PIPING PLAN - LEVEL 06 PENTHOUSE EAST

SHEET NO.
M3.56

GENERAL NOTES:

A. EXACT LOCATION/ELEVATION FOR EQUIPMENT VENTING CONNECTIONS SHALL BE VERIFIED WITH THE SHOP DRAWINGS THAT HAVE BEEN STAMPED FOR APPROVAL. MARK ROUGH-IN LOCATIONS FOR COORDINATION WITH OTHER AFFECTED TRADES PRIOR TO ANY INSTALLATION EFFORTS.

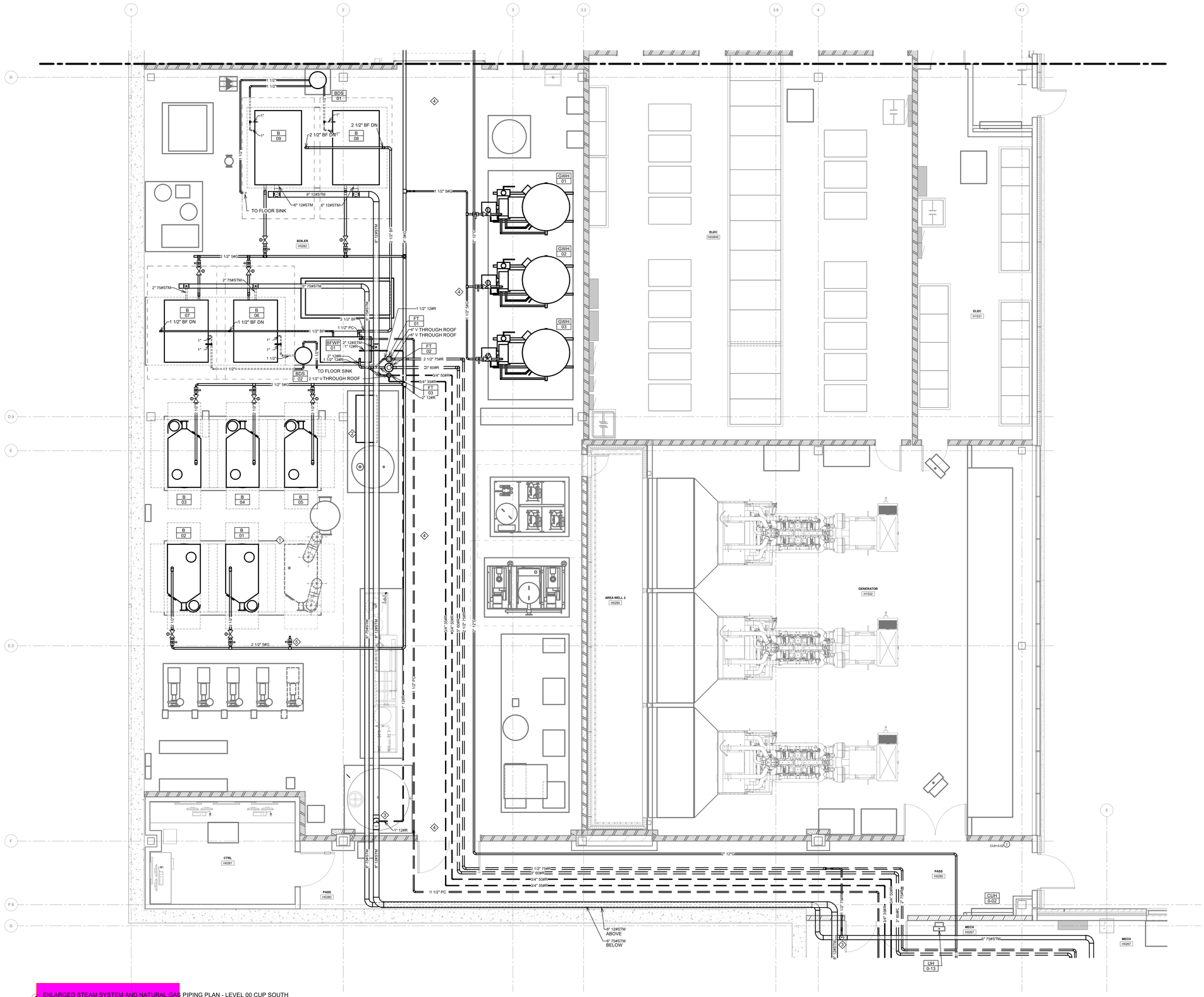
B. COORDINATE WITH PROJECT SPECIFICATION MANUAL AND DRAWING DETAILS FOR ADDITIONAL PIPING ISOLATION VALVES, STRAINERS, TEMPERATURE/PRESSURE GAUGES, BALANCING VALVES, DRAINS, VENTS, AND OTHER REQUIRED PIPING ACCESSORIES AND COMPONENTS THAT MAY NOT BE DIRECTLY INDICATED ON THIS DRAWING.

C. THE MECHANICAL CONTRACTOR WILL BE RESPONSIBLE TO SEAL AND PROTECT ALL PIPING ON SITE FROM CONSTRUCTION DEBRIS AND CONTAMINATION.

D. FOR CLARITY, HYDRONIC PIPING IS SHOWN RACKED SIDE BY SIDE. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION PLANS OF PIPE ROUTING, (STACKED OR RACKED) THROUGHOUT BUILDING.

KEY NOTES:

1. FUTURE HEATING WATER BOILER.
2. BOILER WATER TESTING STATION.
3. PROVIDE STEAM TRAP AT PIPING CHANGE IN ELEVATION. LOCATE AS HIGH AS POSSIBLE.
4. REFER TO NOTE 17 ON SHEET M3.01 FOR MINIMUM MOUNTING HEIGHT AND BOUNDARY OF EQUIPMENT REPLACEMENT PATH.
5. PROVIDE ONE (1) 2-1/2" 5#G TAKE-OFF WITH VALVE AND CAPPED FOR CONNECTION TO FUTURE BOILER.



1 ENLARGED STEAM SYSTEM AND NATURAL GAS PIPING PLAN - LEVEL 00 CUP SOUTH
1/4" = 1'-0"

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3000 CURVE CREST BLVD
STILLWATER, MN 55082

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MILWAUKEE, WI 53202

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MINNEAPOLIS, MN 55404

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BWBR
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SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 0424-QS-001-00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

KEY PLAN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
ENLARGED STEAM SYSTEM AND NATURAL GAS PIPING PLAN - LEVEL 00 CUP SOUTH

SHEET NO.
M3.57

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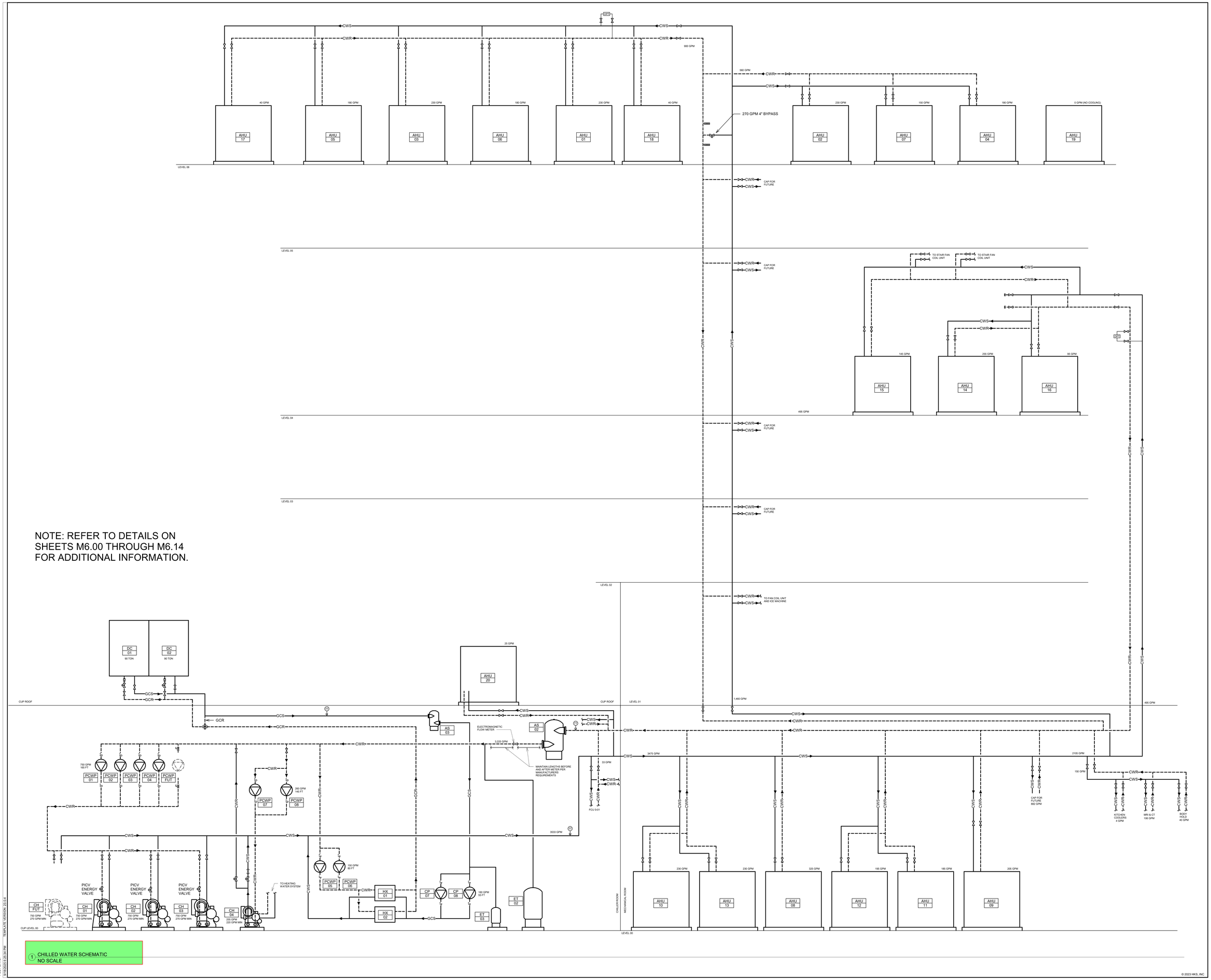

1 CHILLED WATER SCHEMATIC
NO SCALE

PLOT DATE: 9/18/2025 8:25:34 PM
TEMPLATE VERSION: 23.0.4

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DATE
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BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
CHILLED WATER SCHEMATIC

SHEET NO.
M4.00

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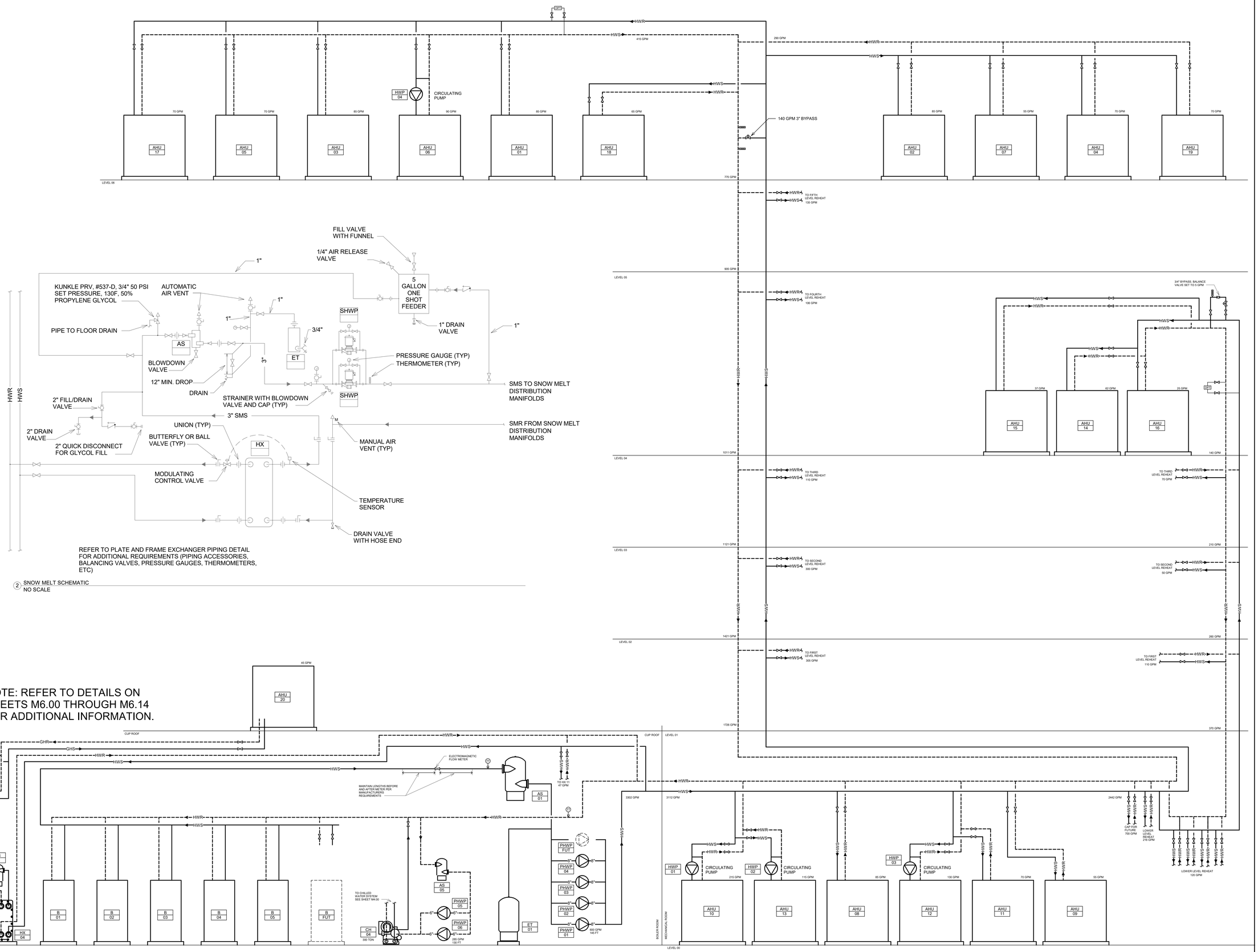

1 HEATING WATER SCHEMATIC
NO SCALE

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26146.000
DATE
09/22/2025
ISSUE
BP-03 INTERIOR FIT-OUT MEP
SHEET TITLE
HEATING WATER SCHEMATIC

SHEET NO.
M4.01

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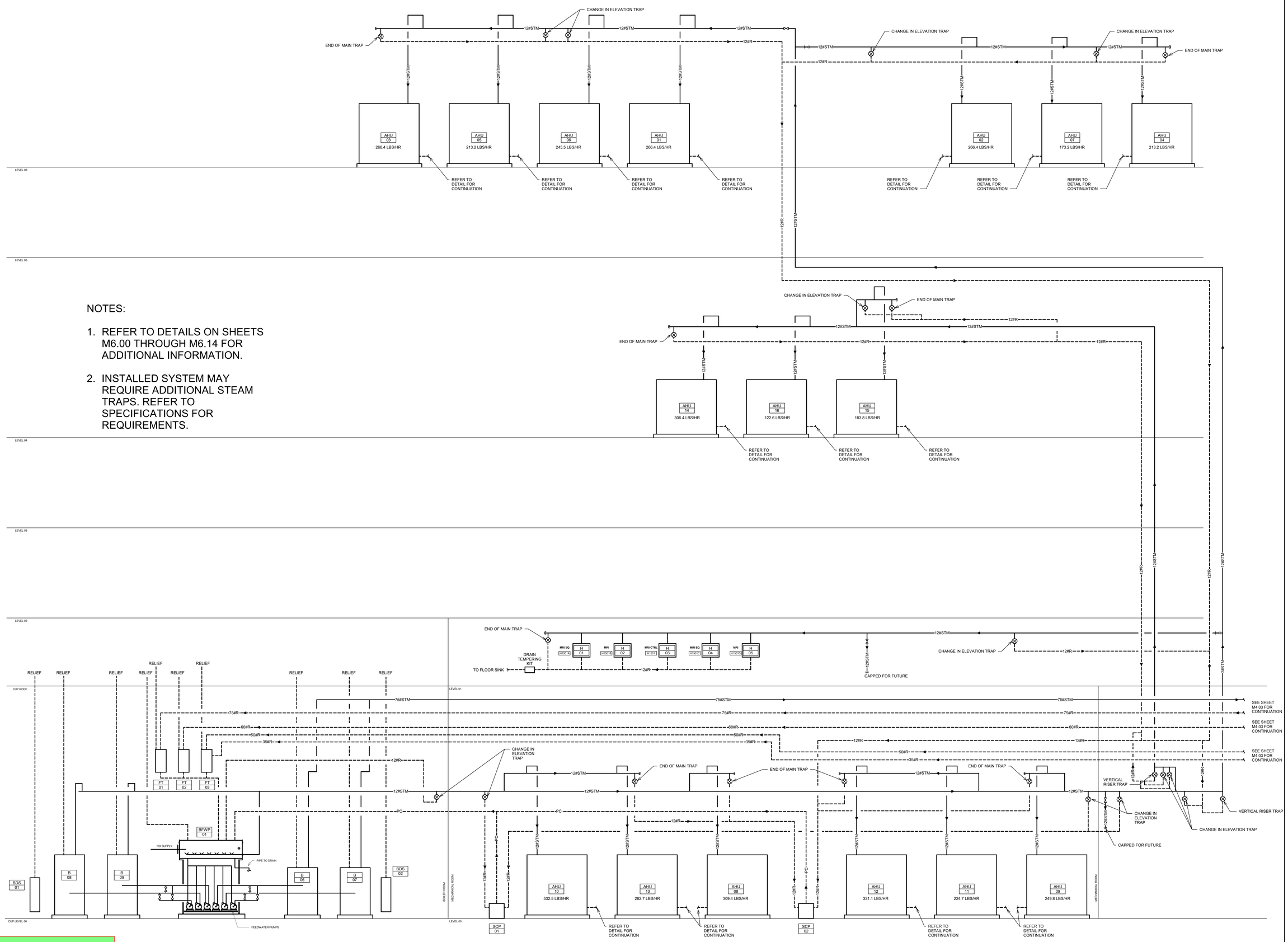

NOTES:

1. REFER TO DETAILS ON SHEETS M6.00 THROUGH M6.14 FOR ADDITIONAL INFORMATION.
2. INSTALLED SYSTEM MAY REQUIRE ADDITIONAL STEAM TRAPS. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

1 STEAM PLANT SCHEMATIC
NO SCALE

PLOT DATE: 9/19/2025 2:23:18 PM TEMPLATE VERSION: 23.0.4

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Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
STEAM PLANT SCHEMATIC

SHEET NO.
M4.02

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NOTES:

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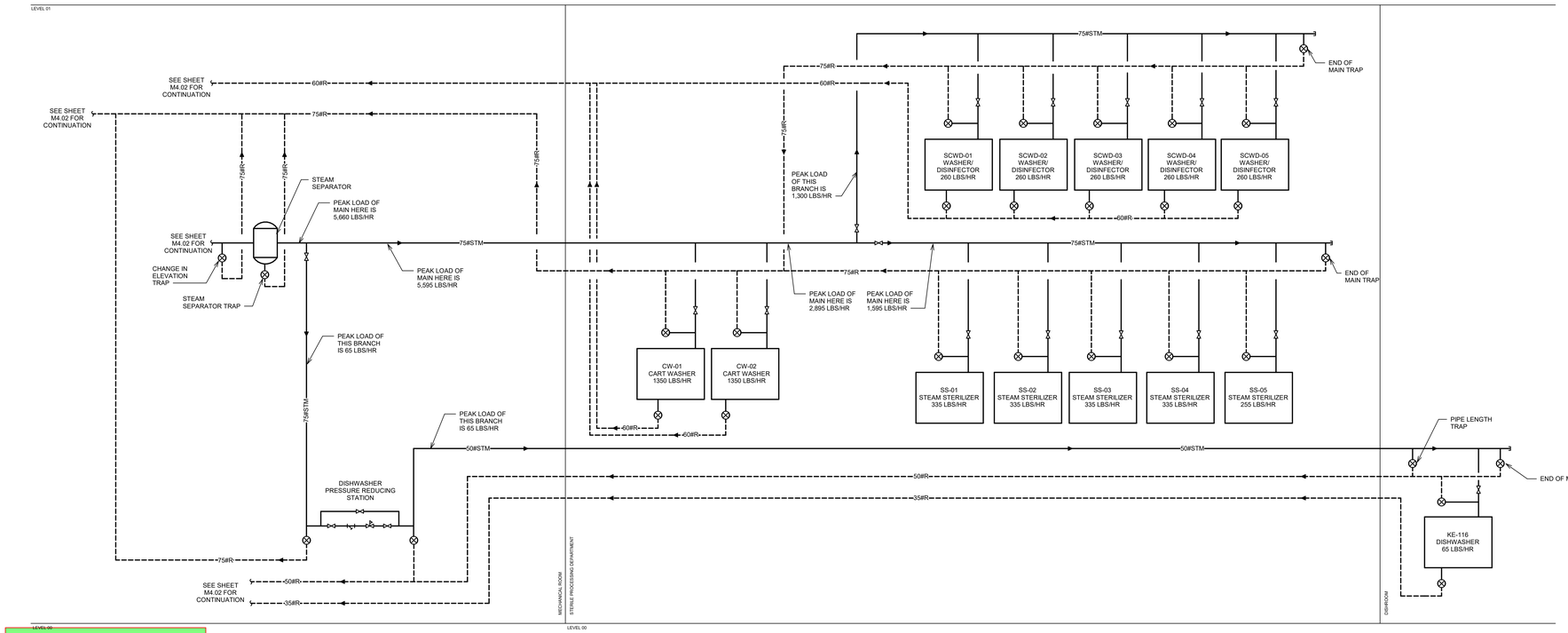

1 SPD AND KITCHEN STEAM SCHEMATIC
NO SCALE

PLOT DATE: 9/18/2025 6:26:45 PM TEMPLATE VERSION 23.0.4

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26146.000

DATE
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ISSUE
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SHEET TITLE
SPD AND KITCHEN STEAM SCHEMATIC

SHEET NO.
M4.03

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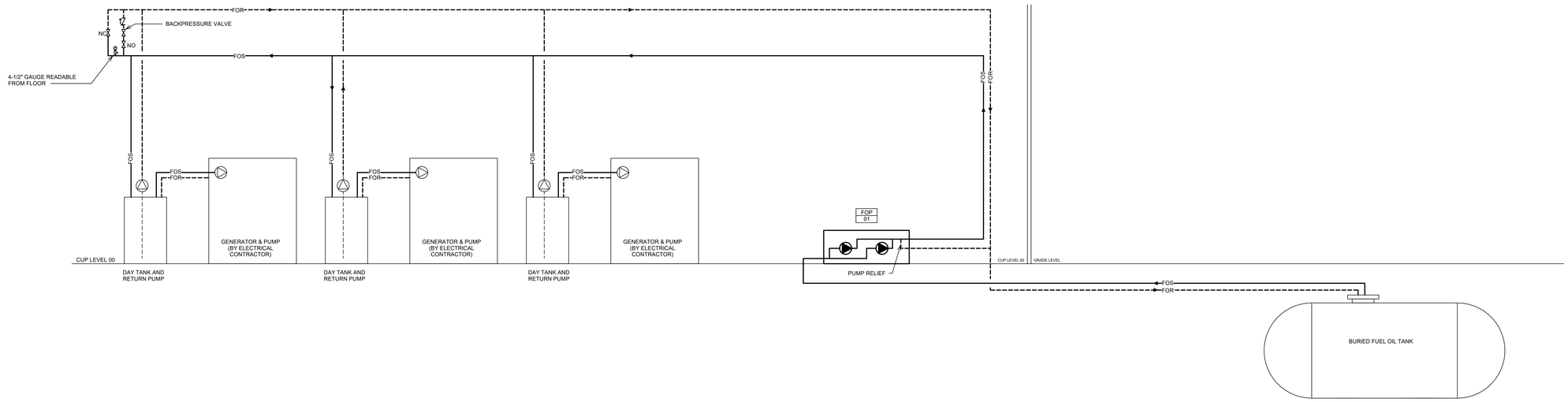


1 FUEL OIL SCHEMATIC
NO SCALE

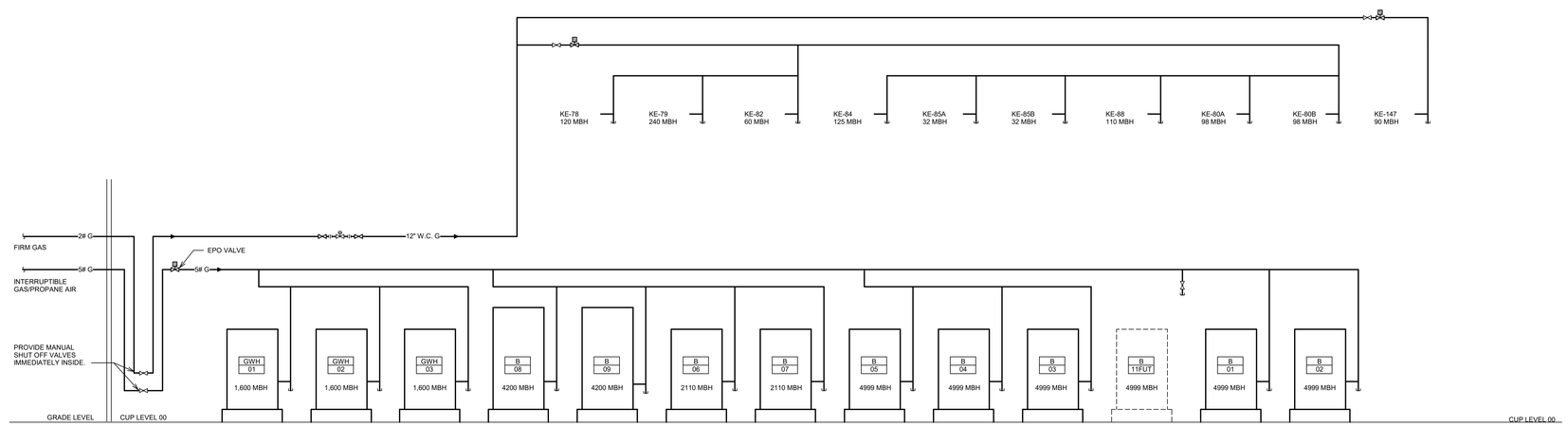
NOTE: REFER TO DETAILS ON SHEETS M6.00 THROUGH M6.04 FOR ADDITIONAL INFORMATION.

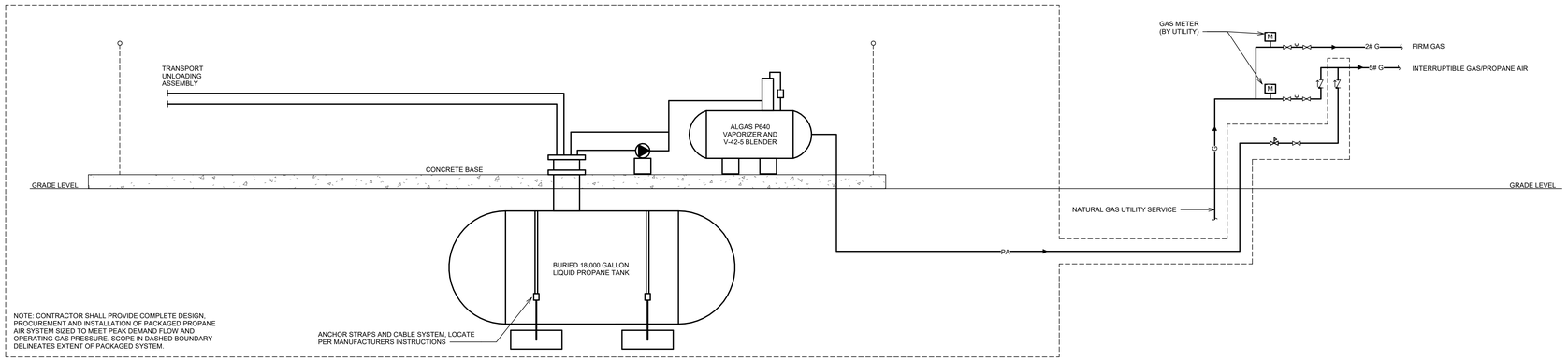
FIRM GAS DEMAND (12 INWC):

KE-78	=	120 MBH
KE-79	=	240 MBH
KE-80A	=	98 MBH
KE-80B	=	98 MBH
KE-82	=	60 MBH
KE-84	=	125 MBH
KE-85A	=	32 MBH
KE-85B	=	32 MBH
KE-88	=	110 MBH
KE-147	=	90 MBH
FIRM TOTAL	=	1005 MBH

INTERRUPTIBLE/PROPANE AIR GAS DEMAND (5 PSI):

	CONNECTED LOAD	DEMAND LOAD
HIGH PRESSURE STEAM BOILER	2,110 MBH	2,110 MBH
HIGH PRESSURE STEAM BOILER	2,110 MBH	2,110 MBH
LOW PRESSURE STEAM BOILER	4,200 MBH	4,200 MBH
LOW PRESSURE STEAM BOILER	4,200 MBH	4,200 MBH
HEATING BOILER	4,999 MBH	4,999 MBH
HEATING BOILER	4,999 MBH	4,999 MBH
HEATING BOILER	4,999 MBH	4,999 MBH
HEATING BOILER	4,999 MBH	4,999 MBH
HEATING BOILER (FUTURE)	4,999 MBH	4,999 MBH
HEATING BOILER	4,999 MBH	0 MBH
WATER HEATER	1,600 MBH	1,120 MBH
WATER HEATER	1,600 MBH	1,120 MBH
WATER HEATER	1,600 MBH	1,120 MBH
INTERRUPTIBLE/PROPANE AIR TOTAL	47,414 MBH	40,975 MBH





NOTE: CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PROCUREMENT AND INSTALLATION OF PACKAGED PROPANE AIR SYSTEM SIZED TO MEET PEAK DEMAND FLOW AND OPERATING GAS PRESSURE. SCOPE IN DASHED BOUNDARY DELINEATES EXTENT OF PACKAGED SYSTEM.

2 GAS SCHEMATIC
NO SCALE

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NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26146.000
DATE
09/22/2025
ISSUE
BP-03 INTERIOR FIT-OUT MEP
SHEET TITLE
FUEL OIL AND NATURAL GAS SCHEMATICS
SHEET NO.
M4.04

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NOTE: REFER TO DETAILS ON
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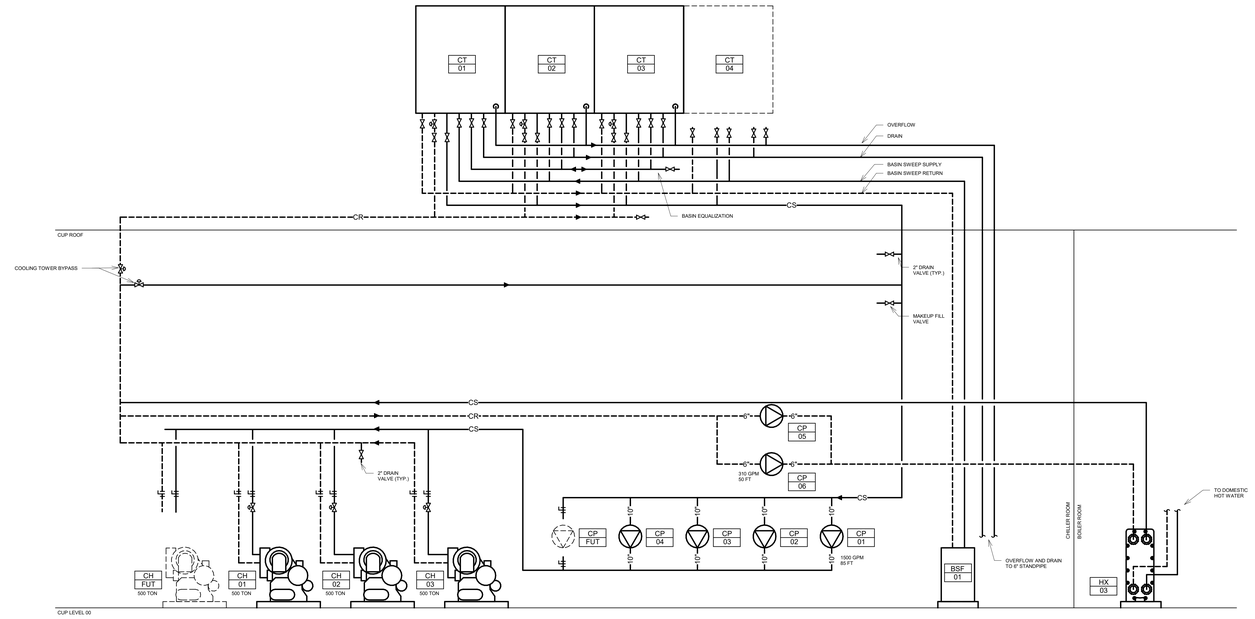

1 CONDENSER WATER SCHEMATIC
NO SCALE

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BWBR

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STILLWATER, MN 55082

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SHEET TITLE
CONDENSER WATER SCHEMATIC

SHEET NO.
M4.05

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VARIABLE AIR VOLUME BOX SCHEDULE - HEATING WATER - AHU 01

MECHANICAL

EQUIPMENT TAG	UNIT SERVED	INLET SIZE (IN)	MAXIMUM CFM	MINIMUM CFM	MAXIMUM APD (IN W.C.)	HEATING COIL HEATING CFM	EAT (F)	LAT (F)	CAPACITY (MBH)	EWT (F)	LWT (F)	GPM	GLYCOL TYPE	GLYCOL %	MAXIMUM WPD (FT)	MINIMUM COIL ROWS	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
VAV 01-01	AHU 01	8	535	535	0.25	535	55	90	20.3	130	103.9	1.6	NA	NA	4.5	3	PRICE	SDV	-
VAV 01-02	AHU 01	8	405	345	0.35	345	55	90	13.1	130	113.3	1.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-03	AHU 01	8	475	475	0.35	475	55	90	18.0	130	112.2	2.0	NA	NA	4.5	2	PRICE	SDV	2
VAV 01-04	AHU 01	8	600	440	0.35	440	55	90	16.7	130	110.3	1.7	NA	NA	4.5	2	PRICE	SDV	2
VAV 01-05	AHU 01	8	355	290	0.35	290	55	90	11.0	130	109.7	1.1	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-06	AHU 01	10	755	755	0.25	755	55	90	28.7	130	99.9	1.9	NA	NA	4.5	3	PRICE	SDV	-
VAV 01-07	AHU 01	8	475	475	0.35	475	55	90	18.0	130	112.2	2.0	NA	NA	4.5	2	PRICE	SDV	2
VAV 01-08	AHU 01	8	405	315	0.35	315	55	90	12.0	130	111.4	1.3	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-09	AHU 01	8	620	385	0.35	385	55	90	14.6	130	110.1	2.1	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-10	AHU 01	6	255	130	0.35	130	55	94	5.4	130	108	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-11	AHU 01	10	855	500	0.35	500	55	90	19.0	130	112.4	2.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-12	AHU 01	12	1350	675	0.35	675	55	90	25.6	130	109.2	2.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-13	AHU 01	6	160	80	0.25	80	55	90	3.0	130	120.6	0.6	NA	NA	4.5	1	PRICE	SDV	2
VAV 01-14	AHU 01	10	890	890	0.25	890	55	90	33.8	130	104	2.6	NA	NA	4.5	3	PRICE	SDV	-
VAV 01-15	AHU 01	8	405	315	0.35	315	55	90	12.0	130	113.3	1.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-16	AHU 01	8	585	445	0.35	445	55	90	16.9	130	110.5	1.7	NA	NA	4.5	2	PRICE	SDV	2
VAV 01-17	AHU 01	8	525	525	0.25	525	55	90	19.9	130	101.2	1.4	NA	NA	4.5	3	PRICE	SDV	-
VAV 01-18	AHU 01	10	730	510	0.35	510	55	90	19.4	130	112.9	2.3	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-19	AHU 01	6	140	140	0.25	140	55	80	3.8	130	114.4	0.5	NA	NA	4.5	1	PRICE	SDV	2
VAV 01-20	AHU 01	6	340	170	0.25	170	55	80	4.6	130	117.2	0.7	NA	NA	4.5	1	PRICE	SDV	2
VAV 01-21	AHU 01	12	1105	605	0.35	605	55	90	23.0	130	109.2	2.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-22	AHU 01	10	790	550	0.35	550	55	90	20.9	130	114.8	2.7	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-23	AHU 01	8	500	500	0.35	500	55	90	19.0	130	113.5	2.3	NA	NA	4.5	2	PRICE	SDV	2
VAV 01-24	AHU 01	8	555	280	0.35	280	55	80	7.5	130	97.4	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-25	AHU 01	6	155	80	0.25	80	55	83	2.4	130	118.1	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 01-26	AHU 01	6	200	200	0.25	200	55	80	5.4	130	122.2	1.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 01-27	AHU 01	14	1850	0	0.15	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 01-28	AHU 01	8	640	0	0.15	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 01-29	AHU 01	8	550	275	0.35	275	55	90	10.4	130	108.6	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-30	AHU 01	8	500	500	0.35	500	55	90	19.0	130	116.3	2.8	NA	NA	4.5	2	PRICE	SDV	2
VAV 01-31	AHU 01	6	290	160	0.25	160	55	80	4.3	130	123.2	1.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 01-33	AHU 01	6	100	50	0.25	50	55	89	1.8	130	120.8	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 01-34	AHU 01	8	375	205	0.35	205	55	90	7.8	130	103.8	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-35	AHU 01	8	540	270	0.35	270	55	90	10.3	130	111	1.1	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-36	AHU 01	10	750	390	0.35	390	55	90	14.8	130	107.4	1.3	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-37	AHU 01	6	340	170	0.35	170	55	90	6.5	130	106.6	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-38	AHU 01	6	130	65	0.25	65	55	85	2.1	130	118.6	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 01-39	AHU 01	8	685	415	0.35	415	55	90	15.8	130	118.2	2.7	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-40	AHU 01	6	250	125	0.25	125	55	80	3.4	130	119.5	0.6	NA	NA	4.5	1	PRICE	SDV	-
VAV 01-41	AHU 01	6	100	50	0.25	50	55	89	1.8	130	120.8	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 01-42	AHU 01	6	345	345	0.35	345	55	80	9.4	130	101.3	0.7	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-43	AHU 01	8	500	295	0.35	295	55	90	11.2	130	110.1	1.1	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-44	AHU 01	8	550	315	0.35	315	55	90	12.0	130	111.4	1.3	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-45	AHU 01	8	500	295	0.35	295	55	90	11.2	130	110.1	1.1	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-46	AHU 01	10	890	530	0.35	530	55	90	20.1	130	113.8	2.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-47	AHU 01	6	105	55	0.25	55	55	87	1.8	130	119.6	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 01-48	AHU 01	6	335	170	0.25	170	55	80	4.5	130	124.3	1.6	NA	NA	4.5	1	PRICE	SDV	-
VAV 01-49	AHU 01	8	580	305	0.35	305	55	80	8.3	130	94.4	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-50	AHU 01	8	500	290	0.35	290	55	90	11.0	130	109.7	1.1	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-51	AHU 01	10	745	440	0.35	440	55	90	16.7	130	109.7	1.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-52	AHU 01	8	470	235	0.25	235	55	80	6.4	130	124.2	2.2	NA	NA	4.5	1	PRICE	SDV	-
VAV 01-53	AHU 01	6	160	80	0.25	80	55	83	2.4	130	118.1	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 01-54	AHU 01	6	180	180	0.25	180	55	80	4.9	130	123.2	1.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 01-55	AHU 01	8	500	500	0.35	500	55	90	19.0	130	113.5	2.3	NA	NA	4.5	2	PRICE	SDV	2
VAV 01-56	AHU 01	8	500	500	0.35	500	55	90	19.0	130	113.5	2.3	NA	NA	4.5	2	PRICE	SDV	2
VAV 01-57	AHU 01	10	840	475	0.35	475	55	90	18.0	130	111.3	1.9	NA	NA	4.5	2	PRICE	SDV	-
VAV 01-58	AHU 01	8	500	0	0.15	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 01-59	AHU 01	14	1850	0	0.15	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 01-60	AHU 01	6	335	170	0.25	170	55	80	4.5	130	124.3	1.6	NA	NA	4.5	1	PRICE	SDV	-
VAV 01-61	AHU 01	6	335	170	0.25	170	55	80	4.5	130	124.3	1.6	NA	NA	4.5	1	PRICE	SDV	-
			31985	18620		18620													

MECHANICAL NOTES:
1. COOLING ONLY VAV BOX.
2. HIGH CAPACITY COIL.

VARIABLE AIR VOLUME BOX SCHEDULE - HEATING WATER - AHU 02

MECHANICAL

EQUIPMENT TAG	UNIT SERVED	INLET SIZE (IN)	MAXIMUM CFM	MINIMUM CFM	MAXIMUM APD (IN W.C.)	HEATING COIL HEATING CFM	EAT (F)	LAT (F)	CAPACITY (MBH)	EWT (F)	LWT (F)	GPM	GLYCOL TYPE	GLYCOL %	MAXIMUM WPD (FT)	MINIMUM COIL ROWS	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
VAV 02-01	AHU 02	10	715	465	0.35	465	55	90	17.7	130	110.8	1.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-02	AHU 02	8	400	295	0.35	295	55	90	11.2	130	110.1	1.1	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-03	AHU 02	8	350	275	0.35	275	55	90	10.4	130	108.6	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-04	AHU 02	10	650	460	0.35	460	55	90	17.5	130	110.7	1.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-05	AHU 02	8	350	275	0.35	275	55	90	10.4	130	108.6	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-06	AHU 02	10	650	490	0.35	490	55	90	18.6	130	112	2.1	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-07	AHU 02	8	350	275	0.35	275	55	90	10.4	130	108.6	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-08	AHU 02	8	400	300	0.35	300	55	90	11.4	130	110.4	1.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-09	AHU 02	8	600	450	0.35	450	55	90	17.1	130	110.9	1.8	NA	NA	4.5	2	PRICE	SDV	2
VAV 02-10	AHU 02	8	400	300	0.35	300	55	94	12.7	130	117.7	2.1	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-11	AHU 02	10	940	470	0.35	470	55	90	17.8	130	111	1.9	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-12	AHU 02	6	100	50	0.25	50	55	90	1.9	130	122	0.5	NA	NA	4.5	1	PRICE	SDV	-
VAV 02-13	AHU 02	8	470	470	0.35	470	55	90	17.8	130	111.9	0.3	NA	NA	4.5	2	PRICE	SDV	2
VAV 02-14	AHU 02	8	450	450	0.35	450	55	90	17.1	130	111.9	1.9	NA	NA	4.5	2	PRICE	SDV	2
VAV 02-15	AHU 02	8	400	300	0.35	300	55	90	11.4	130	110.4	1.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-16	AHU 02	8	350	275	0.35	275	55	90	10.4	130	108.6	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-17	AHU 02	8	615	445	0.35	445	55	90	16.9	130	110.5	1.7	NA	NA	4.5	2	PRICE	SDV	2
VAV 02-18	AHU 02	8	350	275	0.35	275	55	90	10.4	130	108.6	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-19	AHU 02	8	555	430	0.35	430	55	90	16.3	130	109.8	1.6	NA	NA	4.5	2	PRICE	SDV	2
VAV 02-20	AHU 02	10	615	525	0.35	525	55	90	19.9	130	113.6	2.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-21	AHU 02	8	455	270	0.35	270	55	90	10.3	130	108.2	0.9	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-22	AHU 02	6	200	100	0.25	100	55	80	2.7	130	116.7	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 02-23	AHU 02	8	475	240	0.35	240	55	85	7.7	130	98.8	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-24	AHU 02	8	570	285	0.35	285	55	80	7.7	130	93.7	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-25	AHU 02	6	320	160	0.25	160	55	80	4.3	130	123.2	1.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 02-26	AHU 02	6	320	160	0.25	160	55	80	4.3	130	123.2	1.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 02-27	AHU 02	6	125	65	0.25	65	55	85	2.0	130	118.6	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 02-28	AHU 02	6	300	300	0.35	300	55	80	8.1	130	98.8	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-29	AHU 02	10	805	420	0.35	420	55	80	11.4	130	93	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-30	AHU 02	8	450	225	0.35	225	55	80	6.1	130	98.2	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-31	AHU 02	6	200	200	0.35	200	55	80	5.4	130	100.9	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-32	AHU 02	8	500	0	0.15	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 02-33	AHU 02	14	1850	0	0.15	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 02-34	AHU 02	6	100	50	0.25	50	55	89	1.8	130	120.8	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 02-35	AHU 02	8	605	485	0.35	485	55	80	13.2	130	101.6	0.9	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-36	AHU 02	6	100	50	0.25	50	55	89	1.8	130	120.8	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 02-37	AHU 02	6	245	150	0.35	150	55	87	5.2	130	100.4	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-38	AHU 02	8	585	585	0.35	585	55	80	15.9	130	105.3	1.3	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-39	AHU 02	6	125	125	0.25	125	55	80	3.4	130	119.5	0.6	NA	NA	4.5	1	PRICE	SDV	-
VAV 02-40	AHU 02	10	950	510	0.35	510	55	80	13.8	130	95.5	0.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-41	AHU 02	6	155	155	0.35	155	55	87	5.4	130	100.8	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-42	AHU 02	8	455	230	0.35	230	55	85	7.4	130	97.9	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-43	AHU 02	6	250	250	0.35	250	55	80	6.8	130	96.6	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-44	AHU 02	8	500	0	0.15	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 02-45	AHU 02	6	180	90	0.25	90	55	80	2.4	130	115.5	0.3	NA	NA	4.5	3	PRICE	SDV	-
VAV 02-46	AHU 02	14	1850	0	0.15	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 02-47	AHU 02	10	795	420	0.35	420	55	90	15.9	130	108.9	1.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-48	AHU 02	8	540	300	0.35	300	55	90	11.4	130	110.4	1.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-49	AHU 02	8	490	280	0.35	280	55	90	10.6	130	109	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-50	AHU 02	10	805	470	0.35	470	55	90	17.8	130	111	1.9	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-51	AHU 02	8	490	280	0.35	280	55	90	10.6	130	109	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-52	AHU 02	10	870	520	0.35	520	55	90	19.7	130	113.4	2.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-53	AHU 02	8	490	280	0.35	280	55	90	10.6	130	109	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-54	AHU 02	8	540	300	0.35	300	55	90	11.4	130	110.7	1.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-55	AHU 02	8	490	280	0.35	280	55	90	10.6	130	109	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-56	AHU 02	10	790	535	0.35	535	55	90	20.3	130	114.1	2.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-57	AHU 02	8	360	180	0.25	180	55	80	4.9	130	119.8	1.0	NA	NA	4.5	1	PRICE	SDV	-
VAV 02-58	AHU 02	8	630	315	0.35	315	55	90	12.0	130	111.4	1.3	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-59	AHU 02	10	750	375	0.35	375	55	90	14.2	130	106.7	1.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-60	AHU 02	8	390	220	0.35	220	55	90	8.4	130	104.9	0.7	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-61	AHU 02	10	710	710	0.25	710	55	90	27.0	130	98.6	1.7	NA	NA	4.5	3	PRICE	SDV	-
VAV 02-62	AHU 02	8	540	295	0.35	295	55	90	11.2	130	110.1	1.1	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-63	AHU 02	8	490	275	0.35	275	55	90	10.4	130	108.6	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-64	AHU 02	10	760	460	0.35	460	55	90	17.5	130	110.7	1.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-65	AHU 02	8	490	280	0.35	280	55	90	10.6	130	109	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-66	AHU 02	10	730	425	0.35	425	55	90	16.1	130	109.1	1.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-67	AHU 02	8	395	275	0.35	275	55	90	10.4	130	108.6	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-68	AHU 02	10	790	450	0.35	450	55	90	17.1	130	110.3	1.7	NA	NA	4.5	2	PRICE	SDV	-
VAV 02-69	AHU 02	10	705	355	0.35	355	55	90	13.4	130	105.7	1.1	NA	NA	4.5	2	PRICE	SDV	-
			36420	20650		20650													

MECHANICAL NOTES:
1. COOLING ONLY VAV BOX.
2. HIGH CAPACITY COIL.

VARIABLE AIR VOLUME BOX SCHEDULE - HEATING WATER - AHU 03

MECHANICAL

EQUIPMENT TAG	UNIT SERVED	INLET SIZE (IN)	MAXIMUM CFM	MINIMUM CFM	MAXIMUM APD (IN W.C.)	HEATING COIL HEATING CFM	EAT (F)	LAT (F)	CAPACITY (MBH)	EWT (F)	LWT (F)	GPM	GLYCOL TYPE	GLYCOL %	MAXIMUM WPD (FT)	MINIMUM COIL ROWS	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
VAV 03-01	AHU 03	8	640	640	0.25	640	55	90	24.3	130	106.5	2.1	NA	NA	4.5	3	PRICE	SDV	-
VAV 03-02	AHU 03	8	410	410	0.35	410	55	90	15.6	130	117.8	2.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 03-03	AHU 03	8	360	360	0.35	360	55	90	13.7	130	114.4	1.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 03-04	AHU 03	8	585	585	0.25	585	55	90	22.2	130	104.1	1.7	NA	NA	4.5	3	PRICE	SDV	-
VAV 03-05	AHU 03	8	360	360	0.35	360	55	90	13.7	130	114.4	1.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 03-06	AHU 03	8	410	410	0.35	410	55	90	15.6	130	117.8	2.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 03-07	AHU 03	8	360	360	0.35	360	55	90	13.7	130	114.4	1.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 03-08	AHU 03	8	630	630	0.25	630	55	90	23.9	130	106.1	2.0	NA	NA	4.5	3	PRICE	SDV	-
VAV 03-09	AHU 03	8	360	360	0.35	360	55	90	13.7	130	114.4	1.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 03-10	AHU 03	8	410	410	0.35	410	55	90	15.6	130	117.8	2.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 03-11	AHU 03	8	640	640	0.25	640	55	90	24.3	130	106.5	2.1	NA	NA	4.5	3	PRICE	SDV	-
VAV 03-12	AHU 03	8	410	410	0.35	410	55	90	15.6	130	117.8	2.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 03-13	AHU 03	8	360	360	0.35	360	55	90	13.7	130	114.4	1.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 03-14	AHU 03	8	410	410	0.35	410	55	90	15.6	130	108.6	1.5	NA	NA	4.5	2	PRICE	SDV	2
VAV 03-15	AHU 03	8	620	620	0.25	620	55	90	23.5	130	105.7	1.9	NA	NA	4.5	3	PRICE	SDV	-
VAV 03-16	AHU 03	8	305	305	0.35	305	55	90	11.6	130	110.7	1.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 03-17	AHU 03	6	100	50	0.25	50	55	88	1.8	130	119.7	0.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 03-18	AHU 03	6	300	300	0.35	300	55	80	8.1	130	98.8	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 03-19	AHU 03	6	250	125	0.25	125	55	80	3.4	130	119.5	0.6	NA	NA	4.5	1	PRICE	SDV	-
VAV 03-20	AHU 03	8	495	265	0.35	265	55	80	7.2	130	93	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 03-21	AHU 03	14	1850	0	0.15	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 03-22	AHU 03	6	200	200	0.35	200	55	85	6.5	130	100.9	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 03-23	AHU 03	6	100	50	0.25	50	55	89	1.8	130	119.7	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 03-24	AHU 03	6	210	210	0.35	210	55	82	6.2	130	97	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 03-25	AHU 03	6	325	165	0.25	165	55	80	4.4	130	123.7	1.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 03-26	AHU 03	8	455	230	0.25	230	55

VARIABLE AIR VOLUME BOX SCHEDULE - HEATING WATER - AHU 06

MECHANICAL

EQUIPMENT TAG	UNIT SERVED	INLET SIZE (IN)	MAXIMUM CFM	MINIMUM CFM	MAXIMUM APD (IN W.C.)	HEATING COIL														MECHANICAL NOTES
						HEATING CFM	EAT (F)	LAT (F)	CAPACITY (MBH)	EWT (F)	LWT (F)	GPM	GLYCOL TYPE	GLYCOL %	MAXIMUM WPD (FT)	MINIMUM COIL ROWS	MANUFACTURER	MODEL NUMBER		
VAV 06-01	AHU 06	10	850	850	0.35	850	50	80	27.9	130	102.4	2.0	NA	NA	4.5	2	PRICE	SDV		1
VAV 06-02	AHU 06	8	450	225	0.35	225	50	80	7.4	130	93.6	0.4	NA	NA	4.5	2	PRICE	SDV		-
VAV 06-03	AHU 06	8	700	700	0.35	700	50	80	23.0	130	107.7	2.1	NA	NA	4.5	2	PRICE	SDV		-
VAV 06-04	AHU 06	14	2100	2100	0.25	2100	50	80	69.0	130	90.4	3.5	NA	NA	4.5	3	PRICE	SDV		-
VAV 06-05	AHU 06	10	1050	1050	0.35	1050	50	80	34.5	130	108	3.1	NA	NA	4.5	2	PRICE	SDV		1
VAV 06-06	AHU 06	14	2100	2100	0.25	2100	50	80	69.0	130	90.4	3.5	NA	NA	4.5	3	PRICE	SDV		-
VAV 06-07	AHU 06	6	250	125	0.25	125	50	80	4.1	130	124.6	1.5	NA	NA	4.5	1	PRICE	SDV		-
VAV 06-08	AHU 06	12	1400	1400	0.25	1400	50	80	46.0	130	91.3	2.4	NA	NA	4.5	3	PRICE	SDV		-
VAV 06-09	AHU 06	6	125	65	0.25	65	50	85	2.4	130	122	0.6	NA	NA	4.5	1	PRICE	SDV		-
VAV 06-10	AHU 06	6	125	65	0.25	65	50	85	2.4	130	122	0.6	NA	NA	4.5	1	PRICE	SDV		-
VAV 06-11	AHU 06	6	250	125	0.25	125	50	80	4.1	130	124.6	1.5	NA	NA	4.5	1	PRICE	SDV		-
VAV 06-12	AHU 06	6	125	65	0.25	65	50	85	2.4	130	122	0.6	NA	NA	4.5	1	PRICE	SDV		-
VAV 06-13	AHU 06	6	125	65	0.25	65	50	85	2.4	130	122	0.6	NA	NA	4.5	1	PRICE	SDV		-
VAV 06-14	AHU 06	6	175	90	0.25	90	50	80	2.9	130	119.5	0.5	NA	NA	4.5	1	PRICE	SDV		-
VAV 06-15	AHU 06	6	125	65	0.25	65	50	85	2.4	130	122	0.6	NA	NA	4.5	1	PRICE	SDV		-
VAV 06-16	AHU 06	6	250	250	0.35	250	50	80	8.2	130	99.6	0.5	NA	NA	4.5	2	PRICE	SDV		-
VAV 06-17	AHU 06	8	400	400	0.35	400	50	80	13.2	130	102.6	1.0	NA	NA	4.5	2	PRICE	SDV		-
VAV 06-18	AHU 06	6	330	165	0.35	165	50	85	6.3	130	101.4	0.4	NA	NA	4.5	2	PRICE	SDV		-
VAV 06-19	AHU 06	8	500	250	0.35	250	50	80	8.2	130	84.6	0.5	NA	NA	4.5	2	PRICE	SDV		-
VAV 06-20	AHU 06	10	900	450	0.35	450	50	80	14.8	130	97.2	0.9	NA	NA	4.5	2	PRICE	SDV		-
VAV 06-21	AHU 06	6	100	100	0.25	100	50	80	3.3	130	121	0.7	NA	NA	4.5	1	PRICE	SDV		-
VAV 06-22	AHU 06	8	550	550	0.35	550	50	80	18.1	130	110.2	1.8	NA	NA	4.5	2	PRICE	SDV		-
VAV 06-23	AHU 06	6	225	115	0.25	115	50	80	3.7	130	123.1	1.1	NA	NA	4.5	1	PRICE	SDV		-
VAV 06-24	AHU 06	6	150	75	0.25	75	50	80	2.5	130	117.3	0.4	NA	NA	4.5	1	PRICE	SDV		-
VAV 06-25	AHU 06	12	1400	700	0.35	700	50	80	23.0	130	98.5	1.5	NA	NA	4.5	2	PRICE	SDV		-
VAV 06-26	AHU 06	6	150	75	0.25	75	50	80	2.5	130	117.3	0.4	NA	NA	4.5	1	PRICE	SDV		-
VAV 06-27	AHU 06	6	150	150	0.25	150	50	80	4.9	130	119.7	1.0	NA	NA	4.5	1	PRICE	SDV		1
VAV 06-28	AHU 06	10	950	950	0.35	950	50	80	31.2	130	105.1	2.5	NA	NA	4.5	2	PRICE	SDV		1
VAV 06-29	AHU 06	10	800	800	0.35	800	50	80	26.3	130	109.3	2.5	NA	NA	4.5	2	PRICE	SDV		-
VAV 06-30	AHU 06	16	2160	2160	0.25	2160	50	80	71.0	130	86.2	3.2	NA	NA	4.5	3	PRICE	SDV		-
VAV 06-31	AHU 06	6	100	100	0.25	100	50	80	3.3	130	121	0.7	NA	NA	4.5	1	PRICE	SDV		-
VAV 06-32	AHU 06	6	200	100	0.25	100	50	80	3.3	130	121	0.7	NA	NA	4.5	1	PRICE	SDV		-
			19265	16465		16465														

MECHANICAL NOTES:
1. HIGH CAPACITY COIL.

VARIABLE AIR VOLUME BOX SCHEDULE - HEATING WATER - AHU 07

MECHANICAL

EQUIPMENT TAG	UNIT SERVED	INLET SIZE (IN)	MAXIMUM CFM	MINIMUM CFM	UNOCCUPIED MINIMUM CFM	MAXIMUM APD (IN W.C.)	HEATING CFM MAX	HEATING CFM MIN	HEATING COIL											MECHANICAL NOTES
									EAT (F)	LAT (F)	CAPACITY (MBH)	EWT (F)	LWT (F)	GPM	GLYCOL TYPE	GLYCOL %	MAXIMUM WPD (FT)	MINIMUM COIL ROWS	MANUFACTURER	MODEL NUMBER	
VAV 07-01	AHU 07	16	2760	1480	-	0.35	1480	-	55	90	56.2	130	106.1	4.7	NA	NA	4.5	2	PRICE	SDV	2
VAV 07-02	AHU 07	12	1300	740	-	0.35	740	-	55	90	28.1	130	105.6	2.3	NA	NA	4.5	2	PRICE	SDV	2
VAV 07-03	AHU 07	8	360	180	-	0.25	180	-	55	80	4.9	130	119.8	1.0	NA	NA	4.5	1	PRICE	SDV	-
VAV 07-04	AHU 07	6	125	65	-	0.25	65	-	55	86	2.1	130	118.6	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 07-05	AHU 07	6	120	60	-	0.25	60	-	55	86	2.0	130	119.1	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 07-06	AHU 07	6	125	65	-	0.25	65	-	55	86	2.1	130	118.6	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 07-07	AHU 07	8	490	0	-	0.15	0	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 07-08	AHU 07	16	2120	0	-	0.15	0	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 07-09	AHU 07	6	160	80	-	0.25	80	-	55	90	2.2	130	121.1	0.5	NA	NA	4.5	1	PRICE	SDV	-
VAV 07-10	AHU 07	6	280	225	-	0.35	225	-	55	80	6.1	130	95.3	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 07-11	AHU 07	6	140	70	-	0.25	70	-	55	85	2.3	130	113.2	0.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 07-12	AHU 07	14	1820	910	-	0.35	910	-	55	90	34.6	130	108.2	3.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 07-13	AHU 07	6	140	70	-	0.25	70	-	55	85	2.3	130	119.6	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 07-14	AHU 07	8	510	255	-	0.25	255	-	55	80	6.9	130	118.3	1.2	NA	NA	4.5	1	PRICE	SDV	2
VAV 07-15	AHU 07	16	2800	1400	-	0.25	1400	-	55	80	53.2	130	91.9	2.8	NA	NA	4.5	3	PRICE	SDV	-
VAV 07-16	AHU 07	6	255	130	-	0.35	130	-	55	90	4.8	130	102.2	0.3	NA	NA	4.5	2	PRICE	SDV	-
VAV 07-17	AHU 07	8	485	245	-	0.25	245	-	55	80	6.6	130	125	2.6	NA	NA	4.5	1	PRICE	SDV	-
VAV 07-18	AHU 07	10	990	495	-	0.35	495	-	55	80	13.4	130	95.4	0.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 07-19	AHU 07	8	600	300	-	0.35	300	-	55	80	8.1	130	93.9	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 07-20	AHU 07	10	1000	500	300	0.35	500	300	55	80	13.6	130	95.3	0.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 07-21	AHU 07	12	1500	750	450	0.35	750	450	55	80	20.3	130	96.2	1.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 07-22	AHU 07	10	1015	510	305	0.35	510	305	55	80	13.8	130	95.5	0.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 07-23	AHU 07	6	100	50	-	0.25	50	-	55	88	1.8	130	119.7	0.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 07-24	AHU 07	6	100	50	-	0.25	50	-	55	88	1.8	130	119.7	0.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 07-25	AHU 07	6	120	60		0.25	60	-	55	88	2.1	130	119.1	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 07-26	AHU 07	6	125	65	-	0.25	65	-	55	88	2.2	130	118.6	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 07-27	AHU 07	10	765	385		0.35	385	-	55	80	10.4	130	102.6	0.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 07-28	AHU 07	14	1760	880	-	0.35	880	-	55	90	33.4	130	107.5	3.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 07-29	AHU 07	6	255	130	-	0.25	130	-	55	80	3.5	130	119.9	0.7	NA	NA	4.5	1	PRICE	SDV	-
			22320	10130			10130													

MECHANICAL NOTES:
1. COOLING ONLY VAV BOX.
2. HIGH CAPACITY COIL.

VARIABLE AIR VOLUME BOX SCHEDULE - HEATING WATER - AHU 08

MECHANICAL

EQUIPMENT TAG	UNIT SERVED	INLET SIZE (IN)	MAXIMUM CFM	MINIMUM CFM	MAXIMUM APD (IN W.C.)	HEATING COIL														MECHANICAL NOTES
						HEATING CFM	EAT (F)	LAT (F)	CAPACITY (MBH)	EWT (F)	LWT (F)	GPM	GLYCOL TYPE	GLYCOL %	MAXIMUM WPD (FT)	MINIMUM COIL ROWS	MANUFACTURER	MODEL NUMBER		
VAV 08-01	AHU 08	16	2255	600	0.25	2255	50	90	98.9	130	106	8.2	NA	NA	4.5	3	PRICE	SDV		2
VAV 08-02	AHU 08	6	200	0	0.25	100	50	80	3.3	130	121	0.7	NA	NA	4.5	1	PRICE	SDV		-
VAV 08-03	AHU 08	12	1370	760	0.25	760	50	90	33.3	130	95.3	1.9	NA	NA	4.5	3	PRICE	SDV		-
VAV 08-04	AHU 08	6	250	125	0.35	125	50	90	5.5	130	104.2	0.4	NA	NA	4.5	2	PRICE	SDV		-
VAV 08-05	AHU 08	12	1195	600	0.35	600	50	90	26.2	130	112.8	3.0	NA	NA	4.5	2	PRICE	SDV		-
VAV 08-06	AHU 08	6	300	150	0.35	150	50	85	5.8	130	99.3	0.4	NA	NA	4.5	2	PRICE	SDV		-
VAV 08-07	AHU 08	8	515	260	0.35	260	50	90	11.3	130	111	1.2	NA	NA	4.5	2	PRICE	SDV		-
VAV 08-08	AHU 08	14	1630	835	0.35	835	50	90	36.6	130	109.8	3.6	NA	NA	4.5	2	PRICE	SDV		-
VAV 08-09	AHU 08	16	2795	800	0.25	2795	50	90	122.5	130	93.6	6.7	NA	NA	4.5	4	PRICE	SDV		2
VAV 08-10	AHU 08	6	350	115	0.15	0	50	55	0.0	0	0		NA	NA	0	0	PRICE	SDV		1
VAV 08-11	AHU 08	10	900	270	0.15	0	50	55	0.0	0	0		NA	NA	0	0	PRICE	SDV		1
VAV 08-12	AHU 08	16	2240	2240	0.25	2240	50	80	73.7	130	86.6	3.4	NA	NA	4.5	3	PRICE	SDV		-
VAV 08-13	AHU 08	10	750	430	0.35	430	50	90	18.9	130	113.1	2.2	NA	NA	4.5	2	PRICE	SDV		-
VAV 08-14	AHU 08	16	2780	800	0.25	2780	50	90	121.9	130	93.5	6.7	NA	NA	4.5	4	PRICE	SDV		-
VAV 08-15	AHU 08	6	250	125	0.25	125	50	80	4.1	130	124.6	1.5	NA	NA	4.5	1	PRICE	SDV		-
VAV 08-16	AHU 08	16	2640	800	0.25	2640	50	90	115.7	130	92	6.1	NA	NA	4.5	4	PRICE	SDV		-
VAV 08-17	AHU 08	6	350	350	0.35	350	50	80	11.5	130	99.7	0.8	NA	NA	4.5	2	PRICE	SDV		-
VAV 08-18	AHU 08	10	900	0	0.15	0	50	55	0.0	0	0		NA	NA	0	0	PRICE	SDV		1
VAV 08-19	AHU 08	10	795	595	0.35	595	50	80	19.6	130	102.1	1.4	NA	NA	4.5	2	PRICE	SDV		-
VAV 08-20	AHU 08	16	2255	600	0.25	2255	50	90	98.9	130	106	8.2	NA	NA	4.5	3	PRICE	SDV		-
VAV 08-21	AHU 08	16	2255	600	0.25	2255	50	90	98.9	130	106	8.2	NA	NA	4.5	3	PRICE	SDV		-
VAV 08-22	AHU 08	16	2255	600	0.25	2255	50	90	98.9	130	106	8.2	NA	NA	4.5	3	PRICE	SDV		-
VAV 08-23	AHU 08	8	400	400	0.35	400	50	80	13.2	130	102.6	1.0	NA	NA	4.5	2	PRICE	SDV		-
			29630	12050		24200														

MECHANICAL NOTES:
1. COOLING ONLY VAV BOX.
2. TWO-POSITION BOX.

VARIABLE AIR VOLUME BOX SCHEDULE - HEATING WATER - AHU 09

MECHANICAL

EQUIPMENT TAG	UNIT SERVED	INLET SIZE (IN)	MAXIMUM CFM	MINIMUM CFM	MAXIMUM APD (IN W.C.)	HEATING COIL														MECHANICAL NOTES
						HEATING CFM	EAT (F)	LAT (F)	CAPACITY (MBH)	EWT (F)	LWT (F)	GPM	GLYCOL TYPE	GLYCOL %	MAXIMUM WPD (FT)	MINIMUM COIL ROWS	MANUFACTURER	MODEL NUMBER		
VAV 09-01	AHU 09	14	1770	915	0.35	915	50	90	40.1	130	112	4.5	NA	NA	4.5	2	PRICE	SDV		-
VAV 09-02	AHU 09	16	2770	800	0.25	2770	50	90	121.4	130	93.4	6.6	NA	NA	4.5	4	PRICE	SDV		2
VAV 09-03	AHU 09	10	960	585	0.25	585	50	90	25.6	130	97.2	1.6	NA	NA	4.5	3	PRICE	SDV		-
VAV 09-04	AHU 09	16	2255	600	0.25	2255	50	90	98.9	130	106	8.2	NA	NA	4.5	3	PRICE	SDV		2
VAV 09-05	AHU 09	16	2255	600	0.25	2255	50	90	98.9	130	106	8.2	NA	NA	4.5	3	PRICE	SDV		2
VAV 09-06	AHU 09	16	2255	600	0.25	2255	50	90	98.9	130	106	8.2	NA	NA	4.5	3	PRICE	SDV		2
VAV 09-07	AHU 08	12	1125	680	0.35	680	50	90	29.8	130	106.9	2.6	NA	NA	4.5	2	PRICE	SDV		1
VAV 09-08	AHU 09	16	2255	600	0.25	2255	50	90	98.9	130	106	8.2	NA	NA	4.5	3	PRICE	SDV		2
VAV 09-09	AHU 09	16	2255	600	0.25	2255	50	90	98.9	130	106	8.2	NA	NA	4.5	3	PRICE	SDV		2
VAV 09-10	AHU 09	8	350	350	0.35	350	50	80	11.5	130	99.7	0.8	NA	NA	4.5	2	PRICE	SDV		-
VAV 09-11	AHU 09	16	2255	600	0.25	2255	50	90	98.9	130	106	8.2	NA	NA	4.5	3	PRICE	SDV		2
VAV 09-12	AHU 09	8	390	390	0.35	390	50	80	12.8	130	101.8	0.9	NA	NA	4.5	2	PRICE	SDV		-
VAV 09-13	AHU 09	6	200	100	0.25	100	50	80	3.3	130	121	0.7	NA	NA	4.5	1	PRICE	SDV		-
VAV 09-14	AHU 09	12	1200	1200	0.35	1200	50	80	39.5	130	102.6	2.9	NA	NA	4.5	2	PRICE	SDV		1
VAV 09-15	AHU 09	16	2770	800	0.25	2770	50	90	121.4	130	93.4	6.6	NA	NA	4.5	4	PRICE	SDV		-
VAV 09-16	AHU 09	16	2295	1150	0.35	1150	50	90	50.3	130	112.1	5.6	NA	NA	4.5	2	PRICE	SDV		-
			27360	10570		24440														

MECHANICAL NOTES:
1. HIGH CAPACITY COIL.
2. TWO-POSITION BOX.

VARIABLE AIR VOLUME BOX SCHEDULE - HEATING WATER - AHU 10

MECHANICAL

EQUIPMENT TAG	UNIT SERVED	INLET SIZE (IN)	MAXIMUM CFM	MINIMUM CFM	MAXIMUM APD (IN W.C.)	HEATING COIL														MECHANICAL NOTES
						HEATING CFM	EAT (F)	LAT (F)	CAPACITY (MBH)	EWT (F)	LWT (F)	GPM	GLYCOL TYPE	GLYCOL %	MAXIMUM WPD (FT)	MINIMUM COIL ROWS	MANUFACTURER	MODEL NUMBER		
VAV 10-01	AHU 10	8	415	415	0.35	415	55	90	15.8	130	118.2	2.7	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-02	AHU 10	12	1350	1350	0.25	1350	55	90	51.3	130	106.2	4.3	NA	NA	4.5	3	PRICE	SDV		-
VAV 10-03	AHU 10	8	395	395	0.35	395	55	80	10.7	130	98	0.7	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-04	AHU 10	6	200	200	0.25	200	55	80	5.4	130	119.6	1.0	NA	NA	4.5	1	PRICE	SDV		1
VAV 10-05	AHU 10	6	340	340	0.35	340	55	80	9.2	130	101.4	0.6	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-06	AHU 10	8	510	510	0.35	510	55	90	19.4	130	114.1	2.4	NA	NA	4.5	2	PRICE	SDV		1
VAV 10-07	AHU 10	6	130	130	0.25	130	55	80	3.5	130	119.9	0.7	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-08	AHU 10	6	135	135	0.25	135	55	80	3.7	130	120.5	0.8	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-09	AHU 10	6	140	140	0.25	140	55	80	3.8	130	121	0.8	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-10	AHU 10	6	135	135	0.25	135	55	80	3.7	130	120.5	0.8	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-11	AHU 10	6	135	135	0.25	135	55	80	3.7	130	120.5	0.8	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-12	AHU 10	6	155	155	0.25	155	55	80	4.2	130	122.7	1.2	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-13	AHU 10	6	250	250	0.35	250	55	90	9.5	130	113.6	1.2	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-14	AHU 10	6	180	180	0.35	180	55	90	6.8	130	107.5	0.6	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-15	AHU 10	14	1720	1720	0.35	1720	55	80	46.7	130	103	3.5	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-16	AHU 10	10	880	880	0.25	880	55	90	33.4	130	103.7	2.5	NA	NA	4.5	3	PRICE	SDV		-
VAV 10-17	AHU 10	10	880	880	0.25	880	55	90	33.4	130	103.7	2.5	NA	NA	4.5	3	PRICE	SDV		-
VAV 10-18	AHU 10	6	160	160	0.25	160	55	80	4.3	130	123.2	1.3	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-19	AHU 10	6	210	210	0.35	210	55	80	8.0	130	109.9	0.8	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-20	AHU 10	6	210	210	0.35	210	55	90	8.0	130	109.9	0.8	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-21	AHU 10	6	210	210	0.35	210	55	90	8.0	130	109.9	0.8	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-22	AHU 10	14	2025	2025	0.25	2025	55	80	54.9	130	86.3	2.5	NA	NA	4.5	3	PRICE	SDV		-
VAV 10-23	AHU 10	6	125	125	0.25	125	55	80	3.4	130	119.5	0.6	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-24	AHU 10	6	125	125	0.25	125	55	80	3.4	130	119.5	0.6	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-25	AHU 10	6	180	180	0.25	180	55	80	4.9	130	125.4	2.1	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-26	AHU 10	6	180	180	0.25	180	55	80	4.9	130	125.4	2.1	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-27	AHU 10	6	180	180	0.25	180	55	80	4.9	130	125.4	2.1	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-28	AHU 10	8	555	555	0.35	555	55	80	15.1	130	104.5	1.2	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-29	AHU 10	8	650	650	0.35	650	55	80	17.6	130	108	1.6	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-30	AHU 10	16	2120	2120	0.25	2120	55	80	57.5	130	83.4	2.5	NA	NA	4.5	3	PRICE	SDV		-
VAV 10-31	AHU 10	8	510	510	0.35	510	55	80	13.8	130	102.7	1.0	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-32	AHU 10	6	190	190	0.35	190	55	90	7.2	130	108.3	0.7	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-33	AHU 10	6	215	215	0.35	215	55	90	8.2	130	110.4	0.8	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-34	AHU 10	6	130	130	0.35	130	55	90	4.9	130	102.2	0.4	NA	NA	4.5	2	PRICE	SDV		-
VAV 10-35	AHU 10	6	170	170	0.25	170	55	80	4.6	130	124.3	1.6	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-36	AHU 10	6	150	150	0.25	150	55	80	4.1	130	122.1	1.0	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-37	AHU 10	6	150	150	0.25	150	55	80	4.1	130	122.1	1.0	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-38	AHU 10	6	155	155	0.25	155	55	80	4.2	130	122.7	1.2	NA	NA	4.5	1	PRICE	SDV		-
VAV 10-39	AHU 10	16	2790	2790	0.25	2790	55	90	106.0	130	105.4	8.6	NA	NA	4.5	4	PRICE	SDV		-
VAV 10-40	AHU 10	8	665	665	0.25	665	55	90	25.3	130	107.7	2.3	NA	NA	4.5	3	PRICE	SDV		-
VAV 10-41	AHU 10	8	440	440	0.35	440	55	80	11.9	130	100	0.8	NA	NA	4.5	2	PRICE	SDV		-
			20445	20445		20445														

MECHANICAL NOTES:
1. HIGH CAPACITY COIL.

V

VARIABLE AIR VOLUME BOX SCHEDULE - HEATING WATER - AHU 13

MECHANICAL

EQUIPMENT TAG	UNIT SERVED	INLET SIZE (IN)	MAXIMUM CFM	MINIMUM CFM	MAXIMUM APD (IN W.C.)	HEATING COIL HEATING CFM	EAT (F)	LAT (F)	CAPACITY (MBH)	EWT (F)	LWT (F)	GPM	GLYCOL TYPE	GLYCOL %	MAXIMUM WPD (FT)	MINIMUM COIL ROWS	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
VAV 13-01	AHU 13	12	1125	1125	0.25	1125	50	90	49.3	130	105.2	4.0	NA	NA	4.5	3	PRICE	SDV	-
VAV 13-02	AHU 13	8	640	640	0.35	640	50	80	21.0	130	114.7	2.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-03	AHU 13	8	560	560	0.25	560	50	90	24.6	130	107.2	2.2	NA	NA	4.5	3	PRICE	SDV	-
VAV 13-04	AHU 13	6	110	110	0.25	110	50	80	3.6	130	122.4	1.0	NA	NA	4.5	1	PRICE	SDV	-
VAV 13-05	AHU 13	8	560	560	0.25	560	50	90	24.6	130	107.2	2.2	NA	NA	4.5	3	PRICE	SDV	-
VAV 13-06	AHU 13	10	1000	1000	0.25	1000	50	80	32.9	130	91.4	1.7	NA	NA	4.5	3	PRICE	SDV	-
VAV 13-07	AHU 13	16	2250	2250	0.25	2250	50	80	74.0	130	87	3.4	NA	NA	4.5	3	PRICE	SDV	-
VAV 13-08	AHU 13	14	2000	2000	0.25	2000	50	80	65.8	130	89.3	3.2	NA	NA	4.5	3	PRICE	SDV	-
VAV 13-09	AHU 13	16	2800	2800	0.25	2800	50	80	92.1	130	91.7	4.8	NA	NA	4.5	3	PRICE	SDV	-
VAV 13-10	AHU 13	6	310	310	0.35	310	50	80	10.2	130	104.3	0.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-11	AHU 13	8	470	0	0.15	0	50	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 13-12	AHU 13	10	740	0	0.15	0	50	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 13-13	AHU 13	6	235	235	0.35	235	50	90	10.3	130	116.7	1.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-14	AHU 13	8	360	180	0.15	0	50	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	-
VAV 13-15	AHU 13	10	890	445	0.35	445	50	90	19.5	130	113.9	2.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-16	AHU 13	6	330	330	0.35	330	50	80	10.9	130	105.5	0.9	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-17	AHU 13	6	100	50	0.25	50	50	85	1.9	130	119	0.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 13-18	AHU 13	10	705	355	0.35	355	50	90	15.5	130	108.9	1.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-19	AHU 13	10	750	750	0.35	750	50	80	24.7	130	107.6	2.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-20	AHU 13	8	520	260	0.35	260	50	80	8.5	130	94.9	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-21	AHU 13	8	420	210	0.35	210	50	80	6.9	130	92.7	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-22	AHU 13	6	100	50	0.25	50	50	85	1.9	130	119	0.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 13-23	AHU 13	6	135	0	0.15	0	50	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	-
VAV 13-24	AHU 13	12	1145	1145	0.25	1145	50	90	62.2	130	105.8	4.1	NA	NA	4.5	3	PRICE	SDV	-
VAV 13-25	AHU 13	6	135	0	0.15	0	50	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	-
VAV 13-26	AHU 13	8	510	255	0.35	255	50	90	11.2	130	110.7	1.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-27	AHU 13	8	500	250	0.35	250	50	80	8.2	130	94.1	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-28	AHU 13	6	105	55	0.25	55	50	85	2.0	130	120	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 13-29	AHU 13	6	175	90	0.25	90	50	80	2.9	130	119.5	0.5	NA	NA	4.5	1	PRICE	SDV	-
VAV 13-30	AHU 13	8	405	205	0.35	205	50	80	6.7	130	92	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-31	AHU 13	6	170	85	0.25	85	50	80	2.8	130	118.8	0.5	NA	NA	4.5	1	PRICE	SDV	-
VAV 13-32	AHU 13	6	230	115	0.25	115	50	80	3.8	130	123.1	1.1	NA	NA	4.5	1	PRICE	SDV	-
VAV 13-33	AHU 13	6	100	50	0.25	50	50	85	1.9	130	119	0.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 13-34	AHU 13	8	385	195	0.25	195	50	80	6.3	130	118.6	1.1	NA	NA	4.5	1	PRICE	SDV	2
VAV 13-35	AHU 13	6	300	150	0.25	150	50	80	4.9	130	119.7	1.0	NA	NA	4.5	1	PRICE	SDV	2
VAV 13-36	AHU 13	6	100	50	0.25	50	50	85	1.9	130	119	0.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 13-37	AHU 13	8	430	430	0.35	430	50	80	14.1	130	104	1.1	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-38	AHU 13	6	115	60	0.25	60	50	85	2.2	130	121	0.5	NA	NA	4.5	1	PRICE	SDV	-
VAV 13-39	AHU 13	8	560	280	0.35	280	50	80	9.2	130	96	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-40	AHU 13	6	100	50	0.25	50	50	85	1.9	130	119	0.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 13-41	AHU 13	6	300	150	0.25	150	50	80	4.9	130	119.7	1.0	NA	NA	4.5	1	PRICE	SDV	2
VAV 13-42	AHU 13	16	2270	0	0.15	0	50	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 13-43	AHU 13	10	750	0	0.15	0	50	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 13-44	AHU 13	6	200	100	0.25	100	50	80	3.3	130	121	0.7	NA	NA	4.5	1	PRICE	SDV	-
VAV 13-45	AHU 13	12	1240	620	0.35	620	50	80	20.4	130	96.6	1.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 13-46	AHU 13	6	340	170	0.25	170	50	80	5.6	130	121.9	1.4	NA	NA	4.5	1	PRICE	SDV	2
			27675	18710		18530													

MECHANICAL NOTES:

1. COOLING ONLY VAV BOX.
2. HIGH CAPACITY COIL.

VARIABLE AIR VOLUME BOX SCHEDULE - HEATING WATER - AHU 14

MECHANICAL

EQUIPMENT TAG	UNIT SERVED	INLET SIZE (IN)	MAXIMUM CFM	MINIMUM CFM	UNOCCUPIED MINIMUM CFM	MAXIMUM APD (IN W.C.)	HEATING COIL HEATING CFM	EAT (F)	LAT (F)	CAPACITY (MBH)	EWT (F)	LWT (F)	GPM	GLYCOL TYPE	GLYCOL %	MAXIMUM WPD (FT)	MINIMUM COIL ROWS	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
VAV 14-01	AHU 14	6	100	50	50	0.25	50	55	88	1.8	130	119.7	0.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-02	AHU 14	6	240	240	240	0.35	240	55	80	6.5	130	95.4	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-03	AHU 14	8	560	280	225	0.35	280	55	80	7.6	130	93.2	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-04	AHU 14	6	280	140	110	0.25	140	55	80	3.8	130	121	0.8	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-05	AHU 14	6	145	75	60	0.25	75	55	85	2.4	130	120.2	0.5	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-06	AHU 14	14	1700	850	650	0.35	850	55	90	32.3	130	106.9	2.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-07	AHU 14	6	150	150	150	0.25	150	55	80	4.1	130	122.1	1.0	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-08	AHU 14	6	190	190	190	0.35	190	55	85	6.2	130	103.7	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-09	AHU 14	6	250	250	250	0.35	250	55	80	6.8	130	96.6	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-10	AHU 14	6	195	195	195	0.35	195	55	85	6.3	130	100.4	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-11	AHU 14	14	1850	0	0	0.15	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 14-12	AHU 14	8	500	0	0	0.15	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 14-13	AHU 14	10	960	480	390	0.35	480	55	80	13.0	130	94.9	0.7	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-14	AHU 14	8	545	545	545	0.35	545	55	80	14.8	130	104.1	1.1	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-15	AHU 14	6	250	250	250	0.35	250	55	80	6.8	130	96.6	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-16	AHU 14	8	500	500	500	0.35	500	55	80	13.6	130	102.3	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-17	AHU 14	6	325	165	165	0.35	165	55	90	6.2	130	105.8	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-18	AHU 14	10	1060	530	530	0.35	530	55	90	20.1	130	113.8	2.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-19	AHU 14	6	330	165	130	0.25	165	55	80	4.5	130	123.7	1.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-20	AHU 14	6	325	165	130	0.25	165	55	80	4.4	130	123.7	1.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-21	AHU 14	8	375	375	375	0.35	375	55	80	10.2	130	97	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-22	AHU 14	8	580	345	230	0.35	345	55	80	9.4	130	96.2	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-23	AHU 14	6	350	350	350	0.35	350	55	80	9.5	130	101.8	0.7	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-24	AHU 14	10	915	460	460	0.35	460	55	90	17.4	130	110.7	1.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-25	AHU 14	6	660	330	265	0.35	330	55	80	9.0	130	95.5	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-26	AHU 14	6	150	75	60	0.25	75	55	85	2.4	130	120.2	0.5	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-27	AHU 14	6	100	50	50	0.25	50	55	88	1.8	130	119.7	0.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-28	AHU 14	14	2080	1040	900	0.35	1040	55	90	39.5	130	107.9	3.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-29	AHU 14	16	2570	1285	1100	0.35	1285	55	90	48.8	130	109.3	4.7	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-30	AHU 14	10	960	480	480	0.35	480	55	90	18.2	130	111.8	2.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-31	AHU 14	8	500	250	200	0.35	250	55	80	6.8	130	92	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-32	AHU 14	8	540	320	220	0.35	320	55	80	8.7	130	95.2	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-33	AHU 14	6	200	200	200	0.35	200	55	85	6.5	130	100.9	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-34	AHU 14	8	425	425	425	0.35	425	55	80	11.5	130	99.5	0.8	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-35	AHU 14	6	245	125	100	0.25	125	55	80	3.3	130	119.5	0.6	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-36	AHU 14	8	420	300	170	0.35	300	55	80	8.1	130	93.9	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-37	AHU 14	6	320	160	130	0.25	160	55	80	4.3	130	123.2	1.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-38	AHU 14	6	320	160	130	0.25	160	55	80	4.3	130	123.2	1.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-39	AHU 14	14	2080	1040	900	0.35	1040	55	90	39.5	130	110.9	4.1	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-40	AHU 14	6	325	165	130	0.25	165	55	80	4.4	130	123.7	1.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-41	AHU 14	6	100	50	50	0.25	50	55	88	1.8	130	119.7	0.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-42	AHU 14	6	200	200	200	0.35	200	55	85	6.5	130	100.9	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-43	AHU 14	6	145	75	60	0.25	75	55	85	2.4	130	120.2	0.5	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-44	AHU 14	8	375	375	375	0.35	375	55	80	10.2	130	97	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-45	AHU 14	8	375	375	375	0.35	375	55	80	10.2	130	97	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-46	AHU 14	14	1850	0	0	0.15	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 14-47	AHU 14	6	100	50	50	0.25	50	55	88	1.8	130	119.7	0.3	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-48	AHU 14	8	400	200	200	0.35	200	55	90	7.6	130	103.5	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-49	AHU 14	8	615	310	310	0.35	310	55	90	11.7	130	110.4	1.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-50	AHU 14	12	1270	675	500	0.35	675	55	80	18.3	130	94.7	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-51	AHU 14	8	375	375	375	0.35	375	55	80	10.2	130	97	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-52	AHU 14	6	295	295	295	0.35	295	55	80	8.0	130	99	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-53	AHU 14	8	500	0	0	0.15	0	55	55	0.0	0	0		NA	NA	0	0	PRICE	SDV	1
VAV 14-54	AHU 14	6	180	180	180	0.35	180	55	85	5.9	130	99.8	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-55	AHU 14	10	840	420	330	0.35	420	55	80	11.4	130	93	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-56	AHU 14	8	375	375	375	0.35	375	55	80	10.2	130	97	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-57	AHU 14	6	250	250	250	0.35	250	55	80	6.8	130	96.6	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-58	AHU 14	8	375	375	375	0.35	375	55	80	10.2	130	97	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-59	AHU 14	8	375	375	375	0.35	375	55	80	10.2	130	97	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-60	AHU 14	6	300	300	300	0.35	300	55	80	8.1	130	98.8	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-61	AHU 14	8	600	300	300	0.35	300	55	90	11.4	130	110.4	1.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-62	AHU 14	6	250	250	250	0.35	250	55	80	6.8	130	96.6	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-63	AHU 14	6	180	180	180	0.35	180	55	85	5.9	130	99.8	0.4	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-64	AHU 14	8	550	330	200	0.35	330	55	80	9.0	130	95.5	0.5	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-65	AHU 14	8	375	375	375	0.35	375	55	80	10.2	130	97	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-66	AHU 14	6	100	100	100	0.25	100	55	80	2.7	130	116.7	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-67	AHU 14	6	170	85	70	0.25	85	55	85	2.8	130	121.8	0.7	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-68	AHU 14	6	125	125	125	0.25	125	55	80	3.4	130	119.5	0.6	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-69	AHU 14	8	375	375	375	0.35	375	55	80	10.2	130	97	0.6	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-70	AHU 14	6	150	150	150	0.25	150	55	80	4.1	130	122.1	1.0	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-71	AHU 14	8	620	310	310	0.35	310	55	90	11.8	130	110.9	1.2	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-72	AHU 14	6	200	200	200	0.35	200	55	85	6.5	130	116.7	1.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-73	AHU 14	16	2560	1280	900	0.35	1280	55	90	48.6	130	110.7	5.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-74	AHU 14	6	170	85	70	0.25	85	55	82	2.5	130	117.7	0.4	NA	NA	4.5	1	PRICE	SDV	-
VAV 14-75	AHU 14	16	2560	1280	900	0.35	1280	55	90	48.6	130	110.7	5.0	NA	NA	4.5	2	PRICE	SDV	-
VAV 14-76	AHU 14	6	200	200	200	0.35	200	55	85	6.5	130	100.9	0.4	NA	NA	4.5	2	PRICE	SDV	-
			43050	24015	21315		24015												

MECHANICAL NOTES:

1. COOLING ONLY VAV BOX.

AIR VALVE SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	AREA SERVED	NECK SIZE	ORIENTATION	MAXIMUM CFM	MINIMUM CFM	AIR PRESSURE DROP (IN W.C.)	MATERIAL	MANUFACTURER	MODEL NUMBER	VAV TRACKING
AV 01-01	EXHAUST, EF 6-01A/B	H5211 ADA ISO PROG CARE	10	HORIZONTAL	735	735	0.16	GALVANIZED	CRC	HORIZON 108-121	VAV 1-01
AV 01-03	EXHAUST, EF 6-01A/B	H5213 ISO PROG CARE	8	HORIZONTAL	675	675	0.14	GALVANIZED	CRC	HORIZON 108-121	VAV 1-03
AV 01-06	EXHAUST, EF 6-01A/B	H5215 ISO PROG CARE	10	HORIZONTAL	725	725	0.16	GALVANIZED	CRC	HORIZON 108-121	VAV 1-06
AV 01-07	EXHAUST, EF 6-01A/B	H5217 ISO PROG CARE	8	HORIZONTAL	675	675	0.14	GALVANIZED	CRC	HORIZON 108-121	VAV 01-07
AV 01-14	EXHAUST, EF 6-12A/B	H5222 IND OP SIZE ISO ICU	10	HORIZONTAL	825	825	0.2	GALVANIZED	CRC	HORIZON 108-121	VAV 01-14
AV 01-17	EXHAUST, EF 6-12A/B	H5225 ISO ICU	10	HORIZONTAL	725	725	0.16	GALVANIZED	CRC	HORIZON 108-121	VAV 01-17
AV 01-23	EXHAUST, EF 6-12A/B	H5231 ISO ICU	8	HORIZONTAL	700	700	0.15	GALVANIZED	CRC	HORIZON 108-121	VAV 01-23
AV 01-30	EXHAUST, EF 6-12A/B	H5233 ADA ISO ICU	10	HORIZONTAL	750	750	0.17	GALVANIZED	CRC	HORIZON 108-121	VAV 01-30
AV 01-55	EXHAUST, EF 6-01A/B	H5208 ISO PROG CARE	8	HORIZONTAL	700	700	0.15	GALVANIZED	CRC	HORIZON 108-121	VAV 01-55
AV 01-56	EXHAUST, EF 6-01A/B	H5209 ISO PROG CARE	8	HORIZONTAL	700	700	0.15	GALVANIZED	CRC	HORIZON 108-121	VAV 01-56
AV 06-02	RETURN, AHU-6	H1323 LOUNGE	8	HORIZONTAL	450	225	0.18	GALVANIZED	CRC	HORIZON 106-121	VAV 06-02
AV 06-06	EXHAUST, EF 3-10A/B	H1329 CORE LAB, HOOD	8	VERTICAL	500	500	0.08	STAINLESS STEEL	CRC	FHVVS5 108-221	-
AV 06-08A	EXHAUST, EF 3-10A/B	H1310 PATHOLOGY, WORKSTATION	8	VERTICAL	600	600	0.11	STAINLESS STEEL	CRC	HORIZON 108-121	-
AV 06-08B	EXHAUST, EF 3-10A/B	H1310 PATHOLOGY, WORKSTATION	8	HORIZONTAL	600	600	0.11	STAINLESS STEEL	CRC	HORIZON 108-121	-
AV 06-09	RETURN, AHU-6	PHARMACY OFFICE CLUSTER	12	HORIZONTAL	1050	540	0.11	GALVANIZED	CRC	HORIZON 110-121	VAV 06-09, VAV 06-10, VAV 06-11, VAV 06-12, VAV 06-13, VAV 06-14, VAV 06-15
AV 06-18	RETURN, AHU-6	RETAIL PHARMACY	14	HORIZONTAL	1730	865	0.14	GALVANIZED	CRC	HORIZON 112-121	VAV 06-18, VAV 06-19, VAV 06-20
AV 06-21	EXHAUST, EF 3-13A/B	H1212 POWDER HOOD, HOOD	8	VERTICAL	250	250	0.05	STAINLESS STEEL	CRC	FHVVS5 106-221	-
AV 06-22	RETURN, AHU-6	H1211 NON-STERILE COMPOUNDING	8	HORIZONTAL	450	450	0.18	GALVANIZED	CRC	HORIZON 106-121	VAV 06-22
AV 06-23	RETURN, AHU-6	H1213 OFFICE, H1215 OFFICE, H1216 OFFICE	8	HORIZONTAL	450	190	0.18	GALVANIZED	CRC	HORIZON 106-121	VAV 06-23, VAV 06-24, VAV 06-26
AV 06-25	RETURN, AHU-6	H1209 INPATIENT PHAR	12	HORIZONTAL	1400	700	0.2	GALVANIZED	CRC	HORIZON 110-121	VAV 06-25
AV 06-28	RETURN, AHU-6	H1207 POSITIVE RM	10	HORIZONTAL	800	800	0.19	GALVANIZED	CRC	HORIZON 108-121	VAV 06-28
AV 06-29	RETURN, AHU-6	H1206 ANTE	8	HORIZONTAL	600	600	0.11	GALVANIZED	CRC	HORIZON 108-121	VAV 06-29
AV 06-30A	EXHAUST, EF 3-13A/B	H1208 NEG ROOM, HOOD	10	VERTICAL	750	750	0.17	STAINLESS STEEL	CRC	FHVVS5 108-221	-
AV 06-30B	EXHAUST, EF 3-13A/B	H1208 NEG ROOM, HOOD	10	VERTICAL	750	750	0.17	STAINLESS STEEL	CRC	FHVVS5 108-221	-
AV 06-30C	EXHAUST, EF 3-13A/B	H1208 NEG ROOM, HOOD	10	VERTICAL	850	850	0.22	STAINLESS STEEL	CRC	FHVVS5 108-221	-
AV 06-31	EXHAUST, EF 3-13A/B	H1210 HAZ STORAGE	8	VERTICAL	200	200	0.03	STAINLESS STEEL	CRC	HORIZON 106-221	VAV 06-31
AV 06-32	RETURN, AHU-6	H1209A RECEIVING	8	HORIZONTAL	100	50	0.01	GALVANIZED	CRC	HORIZON 106-121	VAV 06-32

MECHANICAL NOTES:

VARIABLE AIR VOLUME BOX SCHEDULE - HEATING WATER - AHU 15

MECHANICAL

| EQUIPMENT TAG | UNIT SERVED | INLET SIZE (IN) | MAXIMUM CFM | MINIMUM CFM | UNOCCUPIED MINIMUM CFM | MAXIMUM APD (IN W.C.) | HEATING COIL HEATING CFM | EAT (F) | LAT (F) | CAPACITY (MBH) | EWT (F) | LWT (F) | GPM | GLYCOL TYPE | GLYCOL % | MAXIMUM WPD (FT) | MINIM

KITCHEN EQUIPMENT SCHEDULE

MECHANICAL

EQUIPMENT TAG	SUPPLIER EQUIPMENT NUMBER	DESCRIPTION	CHILLED WATER SUPPLY/RETURN (IN)	CHILLED WATER (GPM)	GAS CONNECTION (IN)	GAS INPUT PRESSURE (INCHES W.C.)	GAS LOAD (MBH)	STEAM SUPPLY/RETURN (IN)	STEAM PRESSURE (PSI)	STEAM LOAD (LB/HR)	EXHAUST FLOW (CFM)	MECHANICAL NOTES
KE-7	7	WALK-IN CONDENSING UNITS SKID	3/4	12.2	-	-	-	-	-	-	-	1
KE-73	73	EXHAUST HOOD (TYPE 1)	-	-	-	-	-	-	-	-	6100	
KE-78	78	GRILL W/REFRIGERATED BASE	-	-	3/4	5.0	120	-	-	-	-	
KE-79	79	RANGE W/CONVECTION OVEN	-	-	3/4	5.0	240	-	-	-	-	
KE-80A	80A	FUTURE COMBI OVEN, 2-SEC.	-	-	3/4	5.5	98	-	-	-	-	
KE-80B	80B	FUTURE COMBI OVEN, 2-SEC.	-	-	3/4	5.5	98	-	-	-	-	
KE-82	82	CHARBROILER & SPREADER W/REFRIGERATED BASE	-	-	3/4	5.0	60	-	-	-	-	
KE-84	84	TILTING FRY PAN, 30 GALLON	-	-	3/4	5.0	125	-	-	-	-	
KE-85A	85A	STEAMER, BOILERLESS, 2-SEC.	-	-	1/2	4.0	32	-	-	-	-	
KE-85B	85B	STEAMER, BOILERLESS, 2-SEC.	-	-	1/2	4.0	32	-	-	-	-	
KE-88	88	CONVECTION OVEN, 2-SEC.	-	-	3/4	3.5	110	-	-	-	-	
KE-116	116	DISHMACHINE W/STEAM COIL TANK HEAT	-	-	-	-	-	3/4	20	65	600	
KE-142	142	EXHAUST HOOD (TYPE 1)	-	-	-	-	-	-	-	-	1100	
KE-147	147	GRILL W/REFRIGERATED BASE	-	-	3/4	5.0	90	-	-	-	-	
KE-158	158	EXHAUST HOOD (TYPE 1)	-	-	-	-	-	-	-	-	1900	
KE-179	179	ICE MAKER/DISPENSER	3/8	1.25	-	-	-	-	-	-	-	
KE-218	218	ICE MAKER, UNDERCOUNTER	1/2	1.25	-	-	-	-	-	-	-	

MECHANICAL NOTES:

1. REFRIGERANT PIPING BETWEEN CONDENSING UNITS SKID AND EVAPORATOR COILS IS THE RESPONSIBILITY OF THE FOOD SERVICE EQUIPMENT CONTRATOR.

STERILIZING EQUIPMENT SCHEDULE

MECHANICAL

EQUIPMENT TAG	SUPPLIER EQUIPMENT NUMBER	LOCATION	DESCRIPTION	DA_STEAM (IN)	DA_STEAM FLOW (LBS/HR)	DA_STEAM PRESSURE (PSIG)	DA_STEAM QUALITY (%)	DA_EXHAUST FLOW RATE (CFM)	DA_EXHAUST (IN)	MECHANICAL NOTES
CW-01	01	DECONTAM	VISION 1327 CART AND UTENSIL WASHER/DISINFECTOR	2-1/2	900 @ 30 PSIG 1,400 @ 80 PSIG	DYNAMIC = 30-80 STATIC = MAX 90	97-100	250-1000	14	
CW-02	01	DECONTAM	VISION 1327 CART AND UTENSIL WASHER/DISINFECTOR	2-1/2	900 @ 30 PSIG 1,400 @ 80 PSIG	DYNAMIC = 30-80 STATIC = MAX 90	97-100	250-1000	14	
EWD-01	25 & 26		MEDIVATORS ADVANTAGE PLUS (PASS-THROUGH) - ENDOSCOPE REPROCESSING SYSTEM	NA	NA	NA	NA	25	4	
EWD-02	25 & 26		MEDIVATORS ADVANTAGE PLUS (PASS-THROUGH) - ENDOSCOPE REPROCESSING SYSTEM	NA	NA	NA	NA	25	4	
EWD-03	25 & 26		MEDIVATORS ADVANTAGE PLUS (PASS-THROUGH) - ENDOSCOPE REPROCESSING SYSTEM	NA	NA	NA	NA	25	4	
SCWD-01	07	PROCESSING	AMSCO 7053HP SINGLE-CHAMBER WASHER/DISINFECTOR	1-1/4	169 @ 30 PSIG 271 @ 80 PSIG	DYNAMIC = 30-80 STATIC = MAX 90	97-100	60	6	
SCWD-02	07	PROCESSING	AMSCO 7053HP SINGLE-CHAMBER WASHER/DISINFECTOR	1-1/4	169 @ 30 PSIG 271 @ 80 PSIG	DYNAMIC = 30-80 STATIC = MAX 90	97-100	60	6	
SCWD-03	07	PROCESSING	AMSCO 7053HP SINGLE-CHAMBER WASHER/DISINFECTOR	1-1/4	169 @ 30 PSIG 271 @ 80 PSIG	DYNAMIC = 30-80 STATIC = MAX 90	97-100	60	6	
SCWD-04	07	PROCESSING	AMSCO 7053HP SINGLE-CHAMBER WASHER/DISINFECTOR	1-1/4	169 @ 30 PSIG 271 @ 80 PSIG	DYNAMIC = 30-80 STATIC = MAX 90	97-100	60	6	
SCWD-05	07	PROCESSING	AMSCO 7053HP SINGLE-CHAMBER WASHER/DISINFECTOR	1-1/4	169 @ 30 PSIG 271 @ 80 PSIG	DYNAMIC = 30-80 STATIC = MAX 90	97-100	60	6	
SS-01	16	PROCESSING	AMSCO 400 MEDIUM STEAM STERILIZER - 26x37.5x60	1-1/2	335	DYNAMIC = 50-80	97-100	NA	NA	
SS-02	16	PROCESSING	AMSCO 400 MEDIUM STEAM STERILIZER - 26x37.5x60	1-1/2	335	DYNAMIC = 50-80	97-100	NA	NA	
SS-03	16	PROCESSING	AMSCO 400 MEDIUM STEAM STERILIZER - 26x37.5x60	1-1/2	335	DYNAMIC = 50-80	97-100	NA	NA	
SS-04	16	PROCESSING	AMSCO 400 MEDIUM STEAM STERILIZER - 26x37.5x60	1-1/2	335	DYNAMIC = 50-80	97-100	NA	NA	
SS-05	22	PROCESSING	AMSCO 400 20x20x38 PREVACUUM STERILIZER	1-1/4	255	DYNAMIC = 50-80	97-100	NA	NA	

MECHANICAL NOTES:

HUMIDIFIER SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	TYPE	CFM	STEAM CAPACITY (LBS/HR)	INLET STEAM PRESSURE (PSIG)	UNIT WIDTH (IN)	UNIT HEIGHT (IN)	ABSORPTION DISTANCE (FT)	NUMBER OF MANIFOLDS	MANIFOLD LENGTH (IN)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
H 01	MRI EQ HUMIDIFICATION	DUCT MOUNTED	500	9.5	10	12	12	1.25	1	11.1	CONDAIR	LiveSteam, MiniSAM-e	1
H 02	MRI HUMIDIFICATION	DUCT MOUNTED	1600	30.4	10	16	16	2.19	1	11.1	CONDAIR	LiveSteam, MiniSAM-e	1
H 03	MRI HUMIDIFICATION	DUCT MOUNTED	450	8.6	10	12	10	1.42	1	11.1	CONDAIR	LiveSteam, MiniSAM-e	
H 04	MRI CTRL HUMIDIFICATION	DUCT MOUNTED	500	9.5	10	12	10	1.44	1	11.1	CONDAIR	LiveSteam, MiniSAM-e	1
H 05	MRI HUMIDIFICATION	DUCT MOUNTED	1600	30.4	10	16	16	2.19	1	11.1	CONDAIR	LiveSteam, MiniSAM-e	1

MECHANICAL NOTES:

1. 10 PSIG UPSTREAM OF CONTROL VALVE.

SOUND ATTENUATOR SCHEDULE

MECHANICAL

EQUIPMENT TAG	UNIT SERVED	TYPE	CFM	FACE VELOCITY (FPM)	MAXIMUM APD (IN W.C.)	NUMBER OF MODULES	CASING SIZE WIDTH (IN)	CASING SIZE HEIGHT (IN)	CASING SIZE LENGTH (IN)	INSERTION SOUND REDUCTION (DECIBELS) 63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
SA 01	GENERATOR RELIEF	ABSORPTIVE	3,391	850	0.07	69	24	24	84	7	12	23	44	49	42	27	21	PRICE	RL	-
SA 02	GENERATOR RELIEF	ABSORPTIVE	3,391	850	0.07	69	24	24	84	7	12	23	44	49	42	27	21	PRICE	RL	-
SA 03	GENERATOR RELIEF	ABSORPTIVE	3,391	850	0.07	69	24	24	84	7	12	23	44	49	42	27	21	PRICE	RL	-
SA 04	GENERATOR INTAKE	ABSORPTIVE	1,378	345	0.02	184	24	24	84	7	12	23	44	49	42	27	21	PRICE	RL	-

MECHANICAL NOTES:

FLASH TANK SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	DISCHARGE STEAM PRESSURE (PSIG)	TANK SIZE DIAMETER (IN)	TANK SIZE HEIGHT (IN)	STEAM CAPACITY (LBS/HR)	ACCESSORIES	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
FT 01	75 PSI STEAM RETURN	0	8	42	5,000	-	ARMSTRONG	AFT-8	-
FT 02	60 PSI STEAM RETURN	0	12	46	10,000	-	ARMSTRONG	AFT-12	-
FT 03	50 & 35 PSI STEAM RETURN	0	6	41	2,000	-	ARMSTRONG	AFT-6	1

MECHANICAL NOTES:

1. PROVIDE SEPERATE INLET FOR EACH STEAM RETURN PRESSURE.

BLOW-DOWN SEPARATOR SCHEDULE

MECHANICAL

EQUIPMENT TAG	UNIT SERVED	BLOW DOWN VALVE SIZE (IN)	NLET SIZE (IN)	DRAIN SIZE (IN)	VENT SIZE (IN)	AFTER COOLER SIZE (IN)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
BDS 01	B 08 & B 09	1.5	1.5	3	3	3	LATTNER	1450	1
BDS 02	B 06 & B 07	2	1	2	2	2	LATTNER	810	2

MECHANICAL NOTES:

1. PROVIDE WITH AUTOMATIC AFTERCOOLER MODEL 301A WITH A 1" COOLING WATER INLET.
2. PROVIDE WITH AUTOMATIC AFTERCOOLER MODEL 205A WITH A 1/2" COOLING WATER INLET.

REHEAT COIL SCHEDULE - HEATING WATER

MECHANICAL

EQUIPMENT TAG	UNIT SERVED	CFM	COIL DUCT WIDTH (IN)	COIL DUCT HEIGHT (IN)	COIL ROWS	AIR EAT (F)	AIR LAT (F)	AIR APD (IN W.C.)	WATER EWT (F)	WATER LWT (F)	WATER GPM	WATER GLYCOL TYPE	WATER GLYCOL %	WATER WPD (FT)	CAPACITY (MBH)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
RHC 01	-	500	12	12	-	-20	50	-	120	100	3.8	PROPYLENE	50	-	38.0	PRECISION COILS	-	-

MECHANICAL NOTES:

EXPANSION TANK SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	TYPE	TANK VOLUME (GAL.)	ACCEPTANCE VOLUME (GAL.)	PRECHARGE PRESSURE (PSIG)	ASME CERTIFIED (YES/NO)	SIZE DIAMETER (IN)	SIZE LENGTH (IN)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
ET 03	CUP GLYCOL HEATING SYSTEM	BLADDER	34	34	22	YES	20	37	BELL & GOSSETT	B130	-
ET 04	DC 01 & 02 WINTER COOLING SYSTEM	BLADDER	26	26	22	YES	20	31	BELL & GOSSETT	B100	-
ET 06	AHU 13 HEAT RECOVERY SYSTEM	BLADDER	23	23	15	YES	16	37	BELL & GOSSETT	B85	-
ET 07	AHU 10 HEAT RECOVERY SYSTEM	BLADDER	53	53	33	YES	24	43	BELL & GOSSETT	B200	-
ET 08	CT CHILLED WATER SYSTEM	DIAPHRAGM	7.8	2	12	YES	12	19	BELL & GOSSETT	D15	-
ET 09	MRI CHILLED WATER SYSTEM	DIAPHRAGM	7.8	2	12	YES	12	19	BELL & GOSSETT	D15	-
ET 10	AHU 06 HEAT RECOVERY SYSTEM	BLADDER	11	8	12	YES	12	25	BELL & GOSSETT	D20	-
ET 11	ED ENTRY SNOW MELT	DIAPHRAGM	25	20	15	YES	16	33	BELL & GOSSETT	D40	-
ET 12	ED ENTRY SNOW MELT	BLADDER	26	26	15	YES	20	31	BELL & GOSSETT	B100	-

MECHANICAL NOTES:

AIR SEPARATOR SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	GPM	WATER CONNECTION SIZE (IN)	WPD (FT)	STRAINER (YES/NO)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
AS 03	CUP GLYCOL HEATING SYSTEM	160	4	1.33	YES	BELL & GOSSETT	R-4F	-
AS 04	DC 01 & 02 WINTER COOLING SYSTEM	160	4	0.44	YES	BELL & GOSSETT	R-4F	-
AS 05	HEATING RECOVERY CHILLER SYSTEM	285	4	2.82	YES	BELL & GOSSETT	R-4F	-
AS 06	AHU 13 HEAT RECOVERY SYSTEM	280	6	0.52	YES	BELL & GOSSETT	R-6F	-
AS 07	AHU 10 HEAT RECOVERY SYSTEM	300	6	0.52	YES	BELL & GOSSETT	R-6F	-
AS 08	CT CHILLED WATER SYSTEM	22	2	0.15	YES	BELL & GOSSETT	R-2N	-
AS 09	MRI CHILLED WATER SYSTEM	84	3	1.15	YES	BELL & GOSSETT	R-3F	-
AS 10	AHU 06 HEAT RECOVERY SYSTEM	70	3	1.10	YES	BELL & GOSSETT	R-3F	-
AS 11	ED ENTRY SNOW MELT	40	3	0.3	YES	BELL & GOSSETT	R-3F	-
AS 12	ED ENTRY SNOW MELT	60	3	0.6	YES	BELL & GOSSETT	R-3F	-

MECHANICAL NOTES:

FINNED TUBE RADIATION SCHEDULE - HEATING WATER

MECHANICAL

EQUIPMENT TAG	TYPE	NUMBER OF ROWS	FIN SIZE (IN)x(IN)	FINS/FT	FIN MATERIAL	PIPE MATERIAL	PIPE SIZE (IN)	ENCLOSURE GAUGE	ENCLOSURE HEIGHT (IN)	EAT DB (F)	EWT (F)	LWT (F)	GLYCOL TYPE	GLYCOL %	WPD/100 FT (FT)	CAPACITY PER LINEAR FT (BTUH)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
FTR 01	ARCHITECTURAL ENCLOSURE	2	3-5/8x4-1/4	32	ALUMINUM	COPPER	3/4	-	-	65	130	110	NA	NA	-	542	STERLING	C3/4-433	1
FTR 02	PEDESTAL	2	3-5/8x4-1/4	32	ALUMINUM	COPPER	3/4	16	11	65	130	110	NA	NA	-	508	STERLING	JDVPB2 C3/4-433	-
FTR 03	BARE ELEMENT	1	3-5/8x4-1/4	32	ALUMINUM	COPPER	3/4	-	-	40	130	110	NA	NA	-	280	STERLING	C3/4-433	-
FTR 04	PEDESTAL	1	4-1/4x4-1/4	32	ALUMINUM	COPPER	3/4	16	11	65	130	110	NA	NA	-	281	STERLING	JDVPB1 C3/4-43	-

MECHANICAL NOTES:

1. REFER TO ARCHITECTURAL DETAIL FOR FINNED TUBE ARRANGEMENT.

RADIANT CEILING PANEL SCHEDULE - LINEAR

MECHANICAL

EQUIPMENT TAG	MATERIAL	WIDTH (IN)	NUMBER OF PASSES	EWT (F)	LWT (F)	GLYCOL TYPE	GLYCOL %	WPD PER 100 FT OF TUBING (FT)	CAPACITY PER LINEAR FT (BTUH)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
RP 01	ALUMINUM	24	4	130	110	NA	NA	-	145	AIRTEX	HEF-2	

MECHANICAL NOTES:

PLATE AND FRAME WATER-TO-WATER HEAT EXCHANGER SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	COLD SIDE EWT (F)	COLD SIDE LWT (F)	COLD SIDE GPM	COLD SIDE WPD (FT)	COLD SIDE GLYCOL TYPE	COLD SIDE GLYCOL %	HOT SIDE EWT (F)	HOT SIDE LWT (F)	HOT SIDE GPM	HOT SIDE WPD (FT)	HOT SIDE GLYCOL TYPE	HOT SIDE GLYCOL %	NUMBER OF PLATES	CAPACITY (MBH)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
HX 01	WINTER COOLING SYSTEM	37	53	172.1	22.1	PROPYLENE	50	58	42	149.4	6.7	NA	NA	110	1200	BELL & GOSSETT	AP55	-
HX 02	WINTER COOLING SYSTEM	37	53	172.1	22.1	PROPYLENE	50	58	42	149.4	6.7	NA	NA	110	1200	BELL & GOSSETT	AP55	-
HX 03	DOMESTIC HOT WATER SYSTEM	50	80	100	1.1 (PSI)	NA	NA	95	85	301.5	22.8	NA	NA	70	1502.7	BELL & GOSSETT	AP19-DW	1
HX 04	CUP GLYCOL HEATING SYSTEM	100	120	160	14.5	PROPYLENE	50	130	110	143.1	9.7	NA	NA	74	1417.1	BELL & GOSSETT	AP31	-
HX 05	MRI CHILLED WATER SYSTEM	42	58	84	22.4	NA	NA	60	44	84	22.4	NA	NA	43	674.6	BELL & GOSSETT	P86	-
HX 06	MRI CHILLED WATER SYSTEM	42	58	84	22.4	NA	NA	60	44	84	22.4	NA	NA	43	674.6	BELL & GOSSETT	P86	-
HX 07	CT CHILLED WATER SYSTEM	42	58	22	6.7	NA	NA	60	44	22	6.7	NA	NA	25	178	BELL & GOSSETT	P55	-
HX 08	CT CHILLED WATER SYSTEM	42	58	22	6.7	NA	NA	60	44	22	6.7	NA	NA	25	178	BELL & GOSSETT	P55	-
HX 09	ED ENTRY SNOW MELT	90	120	40	3.6 (PSI)	PROPYLENE	50	130	110	48	3.6 (PSI)	NA	NA	38	472	HEXONIC	JFB-015-P150-38	-
HX 10	ED ENTRY SNOW MELT	90	120	56	3.6 (PSI)	PROPYLENE	50	130	110	76	3.6 (PSI)	NA	NA	61	750	HEXONIC	JFB-015-P150-61	-
HX 11	DOMESTIC HOT WATER RECIRC	110	120	70	5.0 (PSI)	NA	NA	130	115	47.0	5.8	NA	NA	44	347.0	BELL & GOSSETT	AP20-DW	1

MECHANICAL NOTES:

1. PROVIDE DOUBLE WALL HEAT EXCHANGER FOR DOMESTIC WATER.

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	MOUNTING TYPE	DESCRIPTION	MATERIAL	ACCESSORIES	FINISH	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
A	SUPPLY	CEILING	SQUARE CONE DIFFUSER	STEEL		STANDARD WHITE	TITUS	TMS	1
B	SUPPLY	CEILING	4FT 1" 2-SLOT LINEAR DIFFUSER	ALUMINUM	MP-39 PLENUM	STANDARD WHITE	TITUS	ML-39	1
C	SUPPLY	WALL	DOUBLE DEFLECTION GRILLE	STEEL	-	STANDARD WHITE	TITUS	300RL	3
D	SUPPLY	CEILING	24x24 LAMINAR FLOW DIFFUSER	ALUMINUM	FRB, VRC8EC	STANDARD WHITE	PRICE	LFDC	1,4
E	SUPPLY	CEILING	24x48 LAMINAR FLOW DIFFUSER	ALUMINUM	FRB, VRC8EC	STANDARD WHITE	PRICE	LFDC	1,4
F	RETURN	CEILING	12x24 EGGCRATE GRILLE	ALUMINUM	SRG	STANDARD WHITE	TITUS	50F	1
G	RETURN	CEILING	24x24 EGGCRATE GRILLE	ALUMINUM	SRG	STANDARD WHITE	TITUS	50F	1
H	RETURN	WALL	SINGLE DEFLECTION GRILLE	STEEL	-	STANDARD WHITE	TITUS	350RL	3
J	RETURN	WALL	PERFORATED GRILLE	ALUMINUM FRAME, STEEL FACE	-	STANDARD WHITE	TITUS	8F	3
K	EXHAUST	CEILING	12x24 EGGCRATE GRILLE	ALUMINUM	SRG	STANDARD WHITE	TITUS	50F	1
L	EXHAUST	CEILING	24x24 EGGCRATE GRILLE	ALUMINUM	SRG	STANDARD WHITE	TITUS	50F	1
M	EXHAUST	WALL	SINGLE DEFLECTION GRILLE	STEEL	-	STANDARD WHITE	TITUS	350RL	3
N	SUPPLY	CEILING	SQUARE PLAQUE DIFFUSER	ALUMINUM	-	STANDARD WHITE	TITUS	OMNI-AA	1
O	SUPPLY	CEILING	4FT 1" 3-SLOT LINEAR DIFFUSER	ALUMINUM	MP-39 PLENUM	STANDARD WHITE	TITUS	ML-39	1
P	SUPPLY	CEILING	2FT 1" 2-SLOT LINEAR DIFFUSER	ALUMINUM	MP-39 PLENUM	STANDARD WHITE	TITUS	ML-39	1
Q	SUPPLY	CEILING	MAXIMUM SECURITY 4-WAY DIFFUSER	STEEL	-	STANDARD WHITE	PRICE	MSRRCD	1,2,3
R	RETURN	CEILING	MAXIMUM SECURITY PERFORATED GRILLE	STEEL	-	STANDARD WHITE	TITUS	SG-PR	1,3
S	EXHAUST	CEILING	MAXIMUM SECURITY PERFORATED GRILLE	STEEL	-	STANDARD WHITE	TITUS	SG-PR	1,3
T	EXHAUST	WALL	PERFORATED GRILLE	ALUMINUM FRAME, STEEL FACE	-	STANDARD WHITE	TITUS	8F	3
U	SUPPLY	CEILING	24x12 LAMINAR FLOW DIFFUSER	ALUMINUM	FRB, VRC8EC	STANDARD WHITE	PRICE	LFDC	1,4
V	SUPPLY	CEILING	SQUARE CONE DIFFUSER	STEEL	-	STANDARD WHITE	TITUS	TMS	1
W	SUPPLY	CEILING	4FT 1" 2-SLOT LINEAR DIFFUSER	ALUMINUM	MP-39 PLENUM	CUSTOM	TITUS	ML-39	1
X	SUPPLY	CEILING	4FT 1" 3-SLOT LINEAR DIFFUSER	ALUMINUM	MP-39 PLENUM	CUSTOM	TITUS	ML-39	1
Y	SUPPLY	CEILING	4FT 1" 2-SLOT LINEAR DIFFUSER	ALUMINUM	MP-39 PLENUM	BLACK	TITUS	ML-39	1
Z	RETURN	CEILING	12x24 EGGCRATE GRILLE	ALUMINUM	SRG	BLACK	TITUS	50F	1

MECHANICAL NOTES:

1. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES AND PROVIDE PROPER MOUNTING HARDWARE.
2. NO SUBSTITUTIONS ALLOWED FOR MANUFACTURER AND MODEL.
3. SEE PLAN FOR FACE DIMENSIONS.
4. STAINLESS STEEL 1/4 TURN FASTENERS FOR DIFFUSER FACE REMOVAL, EQUALIZATION BAFFLE, ALUMINUM PLENUM/FACE/FRAME, FACE ADJUSTABLE STAINLESS STEEL BUTTERFLY DAMPER.

GRAVITY VENTILATOR SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	TYPE	THROAT SIZE WIDTH (IN)	THROAT SIZE LENGTH (IN)	CFM	VELOCITY (FPM)	MAXIMUM APD (IN W.C.)	ACCESSORIES	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
GV 01	CHILLER ROOM INTAKE	HOOD	28	52	3,000	300	0.02	-	GREENHECK	FGI-28X52	1
GV 02	STAIR PRESS AHU 17 INTAKE	HOOD	36	90	7,500	333	0.02	-	GREENHECK	FGI-36x90	1

MECHANICAL NOTES:

1. PROVIDE 36" TALL CURB.

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STILLWATER, MN 55082

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LAKEVIEW CAMPUS
3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
MECHANICAL SCHEDULES

SHEET NO.
M5.03

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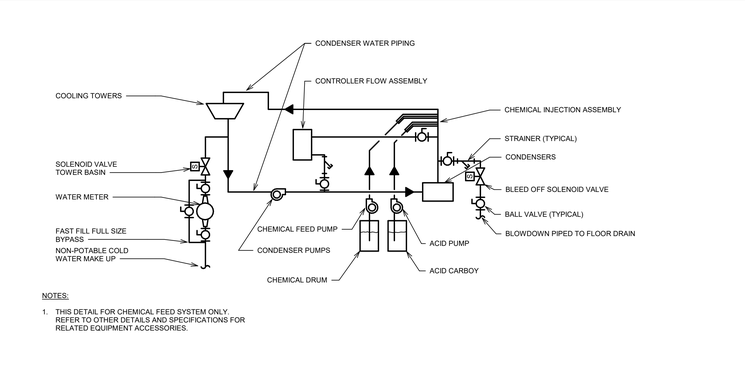
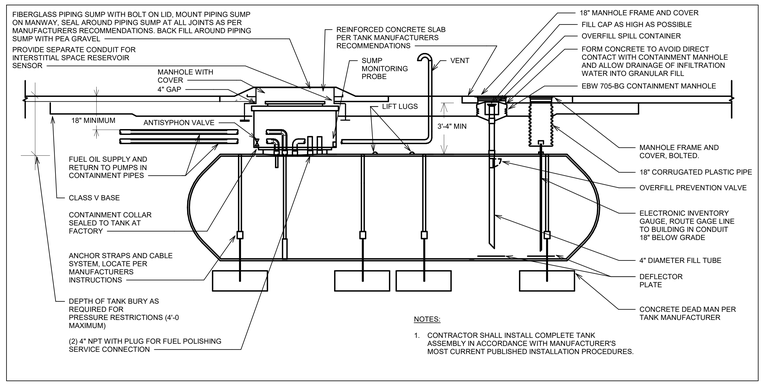
PLOT DATE: 9/18/2025 6:26:27 PM TEMPLATE VERSION: 23.3.4



NOTES:

1. THIS DETAIL FOR CHEMICAL FEED SYSTEM ONLY. REFER TO OTHER DETAILS AND SPECIFICATIONS FOR RELATED EQUIPMENT ACCESSORIES.

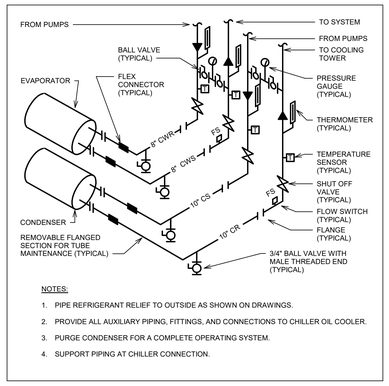
1 COOLING TOWER CHEMICAL FEED SYSTEM DETAIL
NO SCALE



NOTES:

1. CONTRACTOR SHALL INSTALL COMPLETE TANK ASSEMBLY IN ACCORDANCE WITH MANUFACTURER'S MOST CURRENT PUBLISHED INSTALLATION PROCEDURES.

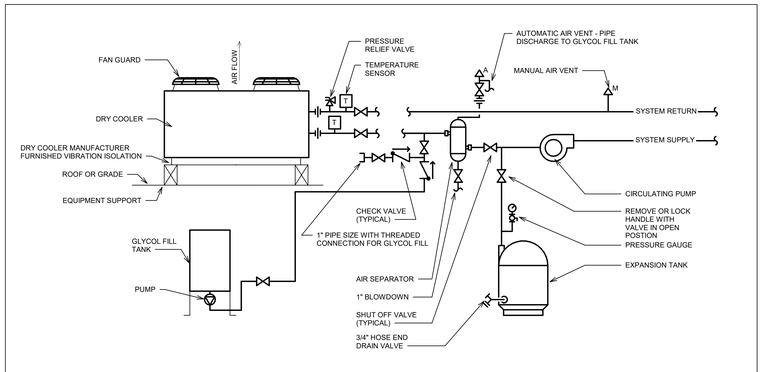
2 FUEL OIL STORAGE TANK DETAIL
NO SCALE



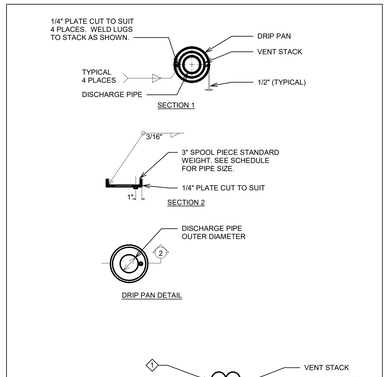
NOTES:

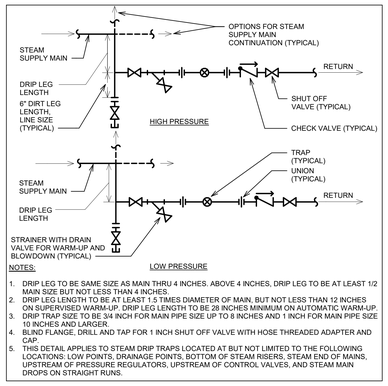
1. PIPE REFRIGERANT RELIEF TO OUTSIDE AS SHOWN ON DRAWINGS.
2. PROVIDE ALL AUXILIARY PIPING, FITTINGS, AND CONNECTIONS TO CHILLER OIL COOLER.
3. PURGE CONDENSER FOR A COMPLETE OPERATING SYSTEM.
4. SUPPORT PIPING AT CHILLER CONNECTION.

3 WATER CHILLER PIPING DETAIL (CH 01, 02, 03)
NO SCALE



4 DRY COOLER PIPING DETAIL
NO SCALE

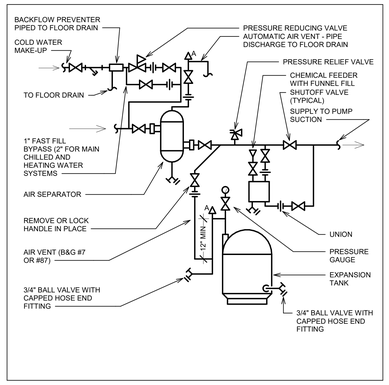




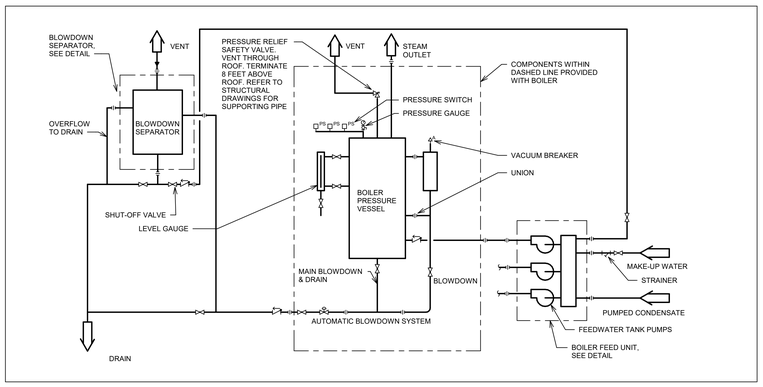
NOTES:

1. DRIP LEG TO BE SAME SIZE AS MAIN THRU 4 INCHES. ABOVE 4 INCHES, DRIP LEG TO BE AT LEAST 1/2 MAIN SIZE BUT NOT LESS THAN 4 INCHES.
2. DRIP LEG LENGTH TO BE AT LEAST 1.5 TIMES DIAMETER OF MAIN, BUT NOT LESS THAN 12 INCHES ON SUPERVISED WARM-UP. DRIP LEG LENGTH TO BE 28 INCHES MINIMUM ON AUTOMATIC WARM-UP.
3. DRIP TRAP SIZE TO BE 3/4 INCH FOR MAIN PIPE SIZE UP TO 8 INCHES AND 1 INCH FOR MAIN PIPE SIZE 10 INCHES AND LARGER.
4. BLIND FLANGE. DRILL AND TAP FOR 1 INCH SHUT OFF VALVE WITH HOSE THREADED ADAPTER AND CAP.
5. THIS DETAIL APPLIES TO STEAM DRIP TRAPS LOCATED AT BUT NOT LIMITED TO THE FOLLOWING LOCATIONS: LOW POINTS, DRAINAGE POINTS, BOTTOM OF STEAM RISERS, STEAM END OF MAINS, UPSTREAM OF PRESSURE REGULATORS, UPSTREAM OF CONTROL VALVES, AND STEAM MAIN DROPS ON STRAIGHT RUNS.

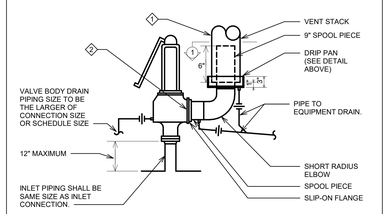
5 STEAM DRIP TRAP DETAIL
NO SCALE



6 EXPANSION TANK AND AIR SEPARATOR PIPING DETAIL
NO SCALE



7 STEAM BOILER PIPING DIAGRAM
NO SCALE



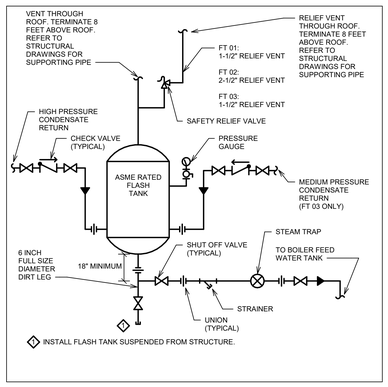
KEY NOTES:

1. VENT STACK SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE.
2. IF SRV HAS A THREADED OUTLET, ADD A 3" PIPE NIPPLE AND A THREADED FLANGE TO THE VALVE.

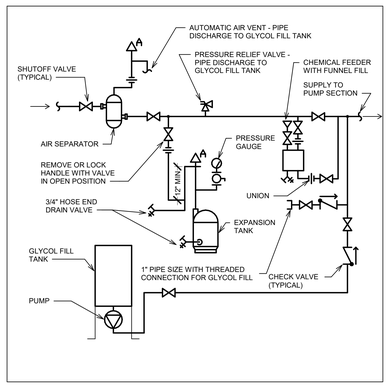
NOTES:

1. DRAIN LINES SHALL BE ROUTED SO AS NOT TO IMPOSE MORE THAN 10 LBS. OF FORCE ON SRV.

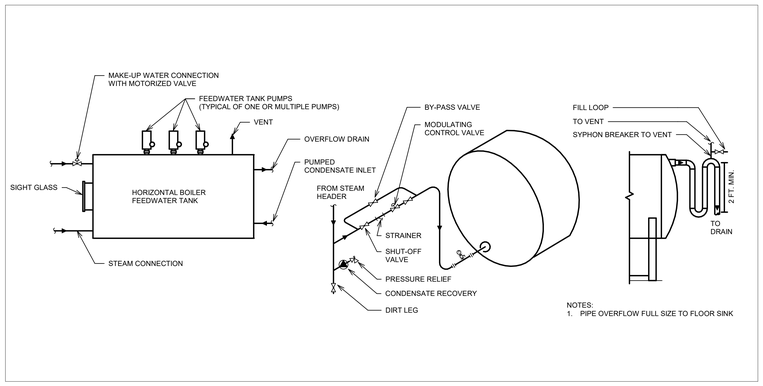
8 SAFETY RELIEF VALVE (SRV) DETAILS
NO SCALE



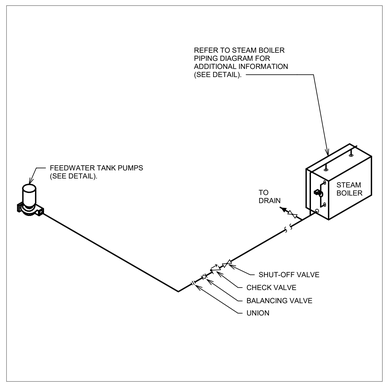
9 FLASH TANK PIPING WITHOUT STEAM RECOVERY DETAIL
NO SCALE



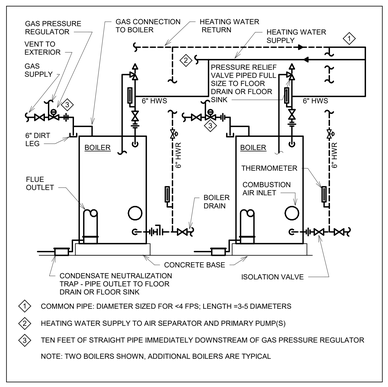
10 EXPANSION TANK, AIR SEP, AND GLYCOL MAKE-UP UNIT PIPING DETAIL
NO SCALE



11 BOILER FEED UNIT PIPING CONNECTION DETAILS
NO SCALE



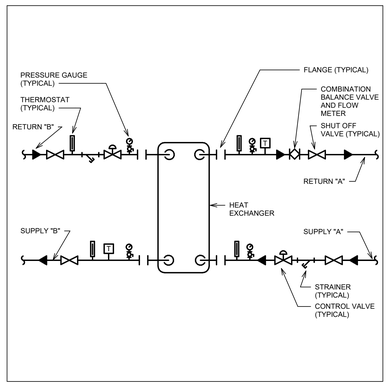
12 BOILER FEED UNIT
NO SCALE



1. COMMON PIPE: DIAMETER SIZED FOR <4 FPS; LENGTH =3-5 DIAMETERS
2. HEATING WATER SUPPLY TO AIR SEPARATOR AND PRIMARY PUMP(S)
3. TEN FEET OF STRAIGHT PIPE IMMEDIATELY DOWNSTREAM OF GAS PRESSURE REGULATOR

NOTE: TWO BOILERS SHOWN, ADDITIONAL BOILERS ARE TYPICAL

15 GAS-FIRED CONDENSING BOILER PIPING VARIABLE PRIMARY DETAIL
NO SCALE



14 PLATE AND FRAME EXCHANGER PIPING DETAIL (HX 01,02,05-10)
NO SCALE

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3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
MECHANICAL DETAILS

SHEET NO.
M6.00

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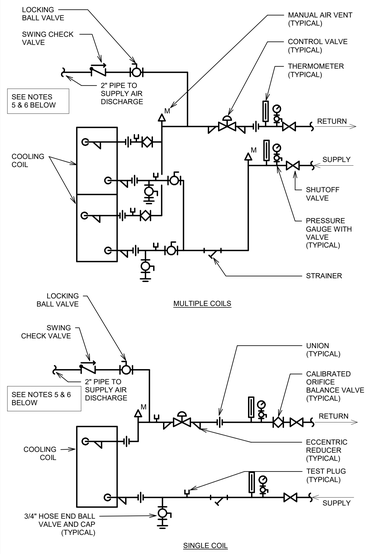
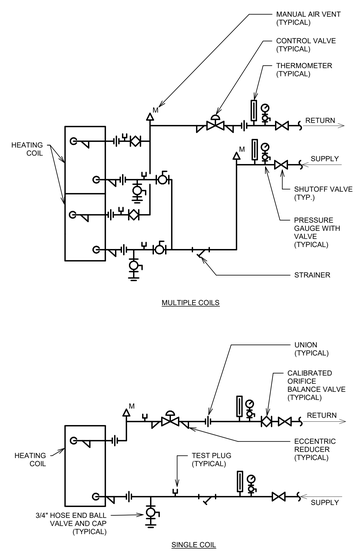
PLOT DATE: 9/18/2025 6:26:23 PM TEMPLATE VERSION: 23.0.4



NOTES:

1. PIPE COILS COUNTER-FLOW TO AIR FLOW. I.E. CHILLED WATER SUPPLY CONNECTION IS ON THE DISCHARGE SIDE OF THE COIL.
2. LOCATE UNIONS TO ALLOW FOR COIL REMOVAL.
3. MOUNT THERMOMETERS AND GAUGES NO MORE THAN 8'-0" A.F.F.
4. REDUCE TO CALIBRATED ORIFICE BALANCING VALVE AS REQUIRED.
5. WINTER OPERATION: CLOSE CWS AND CWR ISOLATION VALVES AT MAINS AND DRAIN CHILLED WATER COIL. LEAVE DRAIN VALVES OPEN. OPEN LOCKING BALL VALVE TO ALLOW AIR FROM AIR HANDLING UNIT TO DRY COIL.
6. COOLING SEASON: CLOSE LOCKING BALL VALVE AND DRAIN VALVES. OPEN CWS AND CWR ISOLATION VALVES AT MAINS.

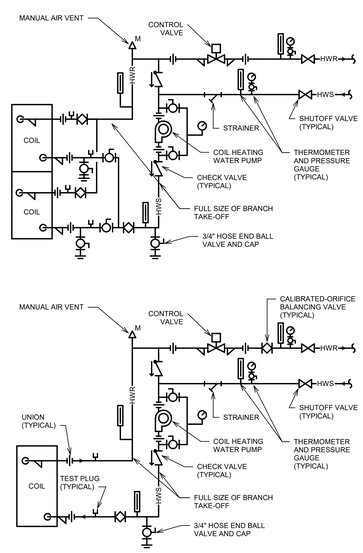
1 AIR HANDLING UNIT COOLING COIL PIPING DETAIL (2-WAY VALVE)
NO SCALE



NOTES:

1. PIPE COILS COUNTER-FLOW TO AIR FLOW. I.E. HEATING WATER SUPPLY CONNECTION IS ON THE DISCHARGE SIDE OF THE COIL.
2. LOCATE UNIONS TO ALLOW FOR COIL REMOVAL.
3. MOUNT THERMOMETERS AND GAUGES NO MORE THAN 8'-0" A.F.F.
4. REDUCE TO CALIBRATED ORIFICE BALANCING VALVE AS REQUIRED.

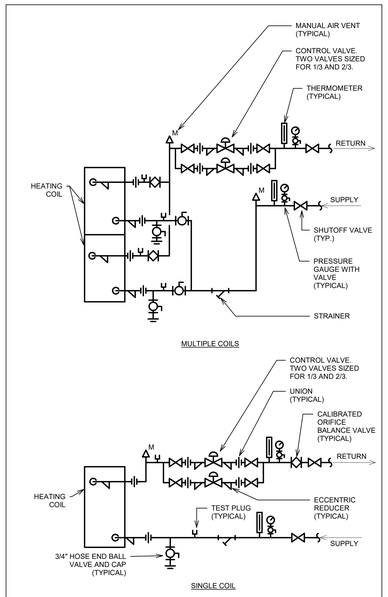
2 AIR HANDLING UNIT HEATING COIL PIPING DETAIL (2-WAY VALVE)
NO SCALE



NOTES:

1. PIPE COILS COUNTER-FLOW TO AIR FLOW. I.E. HEATING WATER SUPPLY CONNECTION IS ON THE DISCHARGE SIDE OF THE COIL.
2. LOCATE UNIONS TO ALLOW FOR COIL REMOVAL.
3. MOUNT THERMOMETERS AND GAUGES NO MORE THAN 8'-0" A.F.F.
4. REDUCE TO CALIBRATED ORIFICE BALANCING VALVE AS REQUIRED.

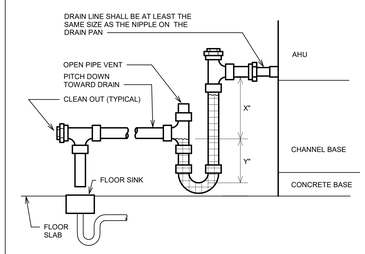
3 AHU HEATING COIL 2-WAY VALVE WITH CIRCULATING PUMP DETAIL
NO SCALE



NOTES:

1. PIPE COILS COUNTER-FLOW TO AIR FLOW. I.E. HEATING WATER SUPPLY CONNECTION IS ON THE DISCHARGE SIDE OF THE COIL.
2. LOCATE UNIONS TO ALLOW FOR COIL REMOVAL.
3. MOUNT THERMOMETERS AND GAUGES NO MORE THAN 8'-0" A.F.F.
4. REDUCE TO CALIBRATED ORIFICE BALANCING VALVE AS REQUIRED.

4 AIR HANDLING UNIT HEATING COIL PIPING DETAIL (1/3-2/3 VALVES)
NO SCALE



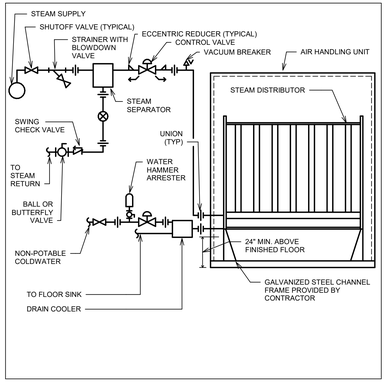
CONDENSATE TRAP SIZING FOR DRAW THROUGH AIR HANDLING UNIT.
X = NEGATIVE STATIC PRESSURE AT THE DRAIN PAN + 2"
Y = X, IF SPACE ALLOWS BUT NOT LESS THAN 1/2 X.

NEGATIVE PRESSURE AT THE DRAIN IS EQUAL TO THE MAXIMUM STATIC PRESSURE ON THE DRAIN PAN INCLUDING MAXIMUM FILTER PRESSURE DROP AND PRESSURE DROP OF FUTURE COMPONENTS OF UNIT OR SYSTEM IF APPLICABLE.

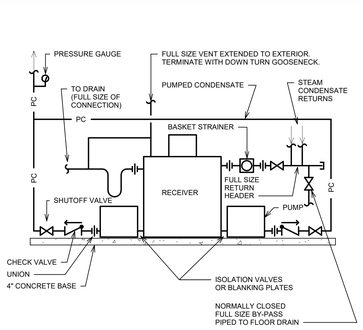
NOTES:

1. PITCH DRAIN PAN AT 1/4" PER FOOT MINIMUM SLOPE TO DRAIN.
2. PROVIDE SHOP DRAWING FOR DRAIN PAN AND CONDENSATE PIPING FOR REVIEW WITH AIR HANDLING UNIT SUBMITTAL.
3. DRAIN LINE SHALL BE AT LEAST THE SAME SIZE AS THE NIPPLE ON THE DRAIN PAN.

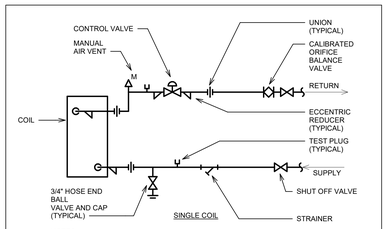
5 DRAW THROUGH AHU CONDENSATE TRAP DETAIL
NO SCALE



6 AHU STEAM HUMIDIFIER DETAIL
NO SCALE



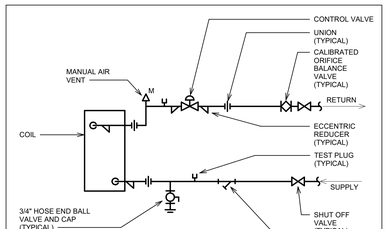
7 CONDENSATE RECEIVER AND PUMP PIPING DETAIL
NO SCALE



NOTES:

1. PIPE COILS COUNTER-FLOW TO AIR FLOW. I.E. WATER SUPPLY CONNECTION IS ON THE DISCHARGE SIDE OF THE COIL.
2. LOCATE UNIONS TO ALLOW FOR COIL REMOVAL.
3. REDUCE TO CALIBRATED ORIFICE BALANCING VALVE AS REQUIRED.
4. DO NOT INSTALL CALIBRATED ORIFICE BALANCE VALVE WHEN UTILIZING A PRESSURE INDEPENDENT CONTROL VALVE (PICV).

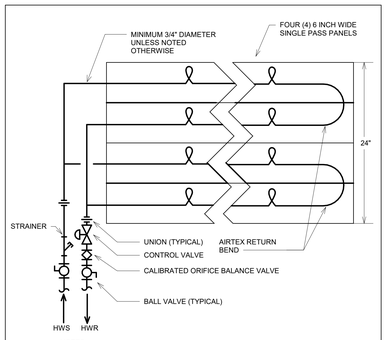
8 FAN COIL UNIT HEATING/COOLING COIL PIPING DETAIL (2-WAY VALVE)
NO SCALE



NOTES:

1. PIPE COILS COUNTER-FLOW TO AIR FLOW. I.E. HEATING WATER SUPPLY CONNECTION IS ON THE DISCHARGE SIDE OF THE COIL.
2. LOCATE UNIONS TO ALLOW FOR COIL REMOVAL.
3. REDUCE TO CALIBRATED ORIFICE BALANCING VALVE AS REQUIRED.
4. DO NOT INSTALL CALIBRATED ORIFICE BALANCE VALVE WHEN UTILIZING A PRESSURE INDEPENDENT CONTROL VALVE (PICV).

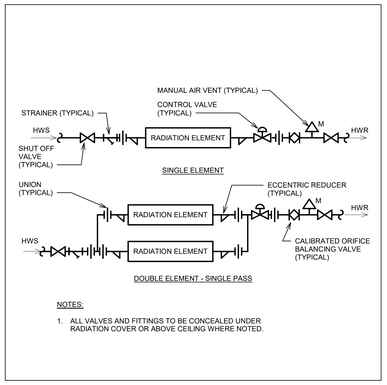
9 REHEAT COIL PIPING DETAIL (2-WAY VALVE)
NO SCALE



NOTES:

1. REFER TO RADIANT PANEL SCHEDULE FOR ADDITIONAL INFORMATION.

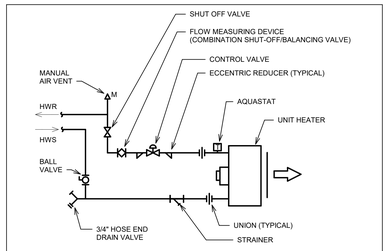
10 24" RADIANT PANEL DETAIL
NO SCALE



NOTES:

1. ALL VALVES AND FITTINGS TO BE CONCEALED UNDER RADIATION COVER OR ABOVE CEILING WHERE NOTED.

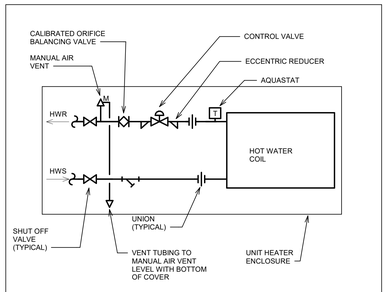
11 HOT WATER RADIATION PIPING DETAIL
NO SCALE



NOTES:

1. PIPING DETAIL IS THE SAME FOR VERTICAL UNIT HEATER.

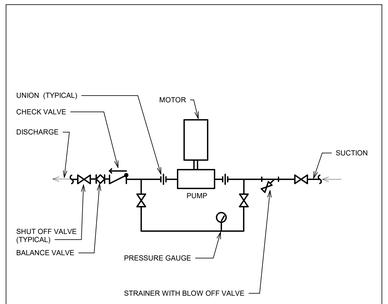
12 HOT WATER HORIZONTAL UNIT HEATER PIPING DETAIL (2-WAY VALVE)
NO SCALE



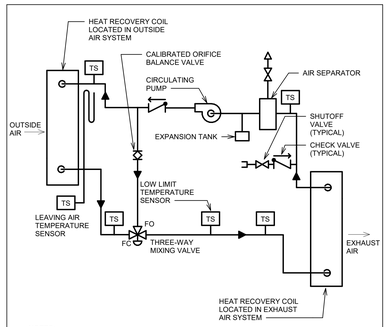
NOTES:

1. REFER TO SPECIFICATIONS FOR AQUASTAT AND CONTROL VALVE REQUIREMENTS.

13 HOT WATER CABINET UNIT HEATER PIPING DETAIL (2-WAY VALVE)
NO SCALE



14 INLINE CIRCULATING PUMP DETAIL
NO SCALE



NOTES:
REFER TO PUMP DETAIL FOR REQUIRED SPECIALTIES ASSOCIATED WITH THE PUMP.

15 RUN AROUND HEAT RECOVERY SYSTEM SCHEMATIC
NO SCALE

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HKS
BWBR

OWNER
HEALTHPARTNERS
3000 CURVE CREST BLVD
STILLWATER, MN 55082

OWNER'S REPRESENTATIVE
CONCORD GROUP
1000 NORTH WATER STREET SUITE 1550
MILWAUKEE, WI 53202

GENERAL CONTRACTOR
KRAUS-ANDERSON
501 SOUTH 8TH STREET
MINNEAPOLIS, MN 55404

ARCHITECT OF RECORD
HKS, INC.
125 SOUTH CLARK STREET, SUITE 1100
CHICAGO, IL 60603

ASSOCIATE ARCHITECT
BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 0424120-0010
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
2550 UNIVERSITY AVE W SUITE 423S
SAINT PAUL, MN 55114

CIVIL ENGINEER/LANDSCAPE
LOUCKS INC.
7200 HENLOCK LANE, SUITE 300
MAPLE GROVE, MN 55369

MEDICAL EQUIPMENT
IMEG CORP.
12755 HIGHWAY 55, SUITE 100
MINNEAPOLIS, MN 55441

ELEVATOR CONSULTANT
VDA, INC.
120 EAGLE ROCK AVENUE, SUITE 310
EAST HANOVER, NJ 07936

FOOD SERVICE
RIPPE ASSOCIATES
10650 REO CIRCLE DRIVE, SUITE 100
MINNEAPOLIS, MN 55343

HealthPartners®
LAKEVIEW CAMPUS
3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

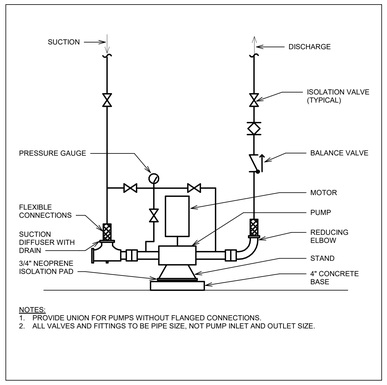
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE

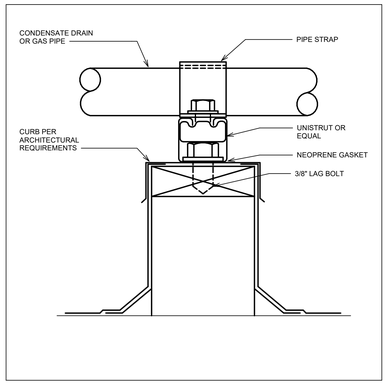
HKS PROJECT NUMBER
26146.000
DATE
09/22/2025
ISSUE
BP-03 INTERIOR FIT-OUT MEP
SHEET TITLE
MECHANICAL DETAILS
SHEET NO.
M6.01

PLOT DATE: 9/18/2025 6:26:33 PM TEMPLATE VERSION 23.0.4

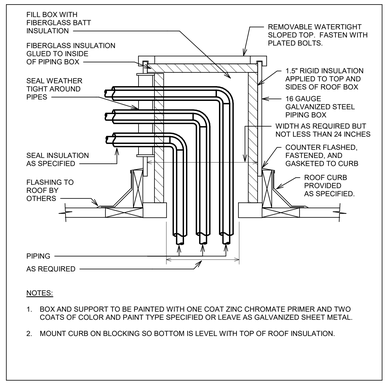


NOTES:
1. PROVIDE UNION FOR PUMPS WITHOUT FLANGED CONNECTIONS.
2. ALL VALVES AND FITTINGS TO BE PIPE SIZE, NOT PUMP INLET AND OUTLET SIZE.

1 FLOOR MOUNTED INLINE PUMP DETAIL
NO SCALE

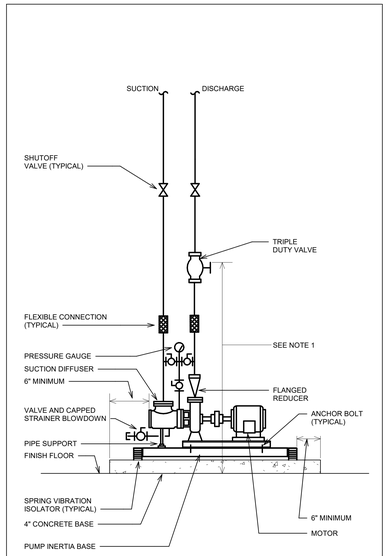


2 PIPE ROOF SUPPORT DETAIL
NO SCALE



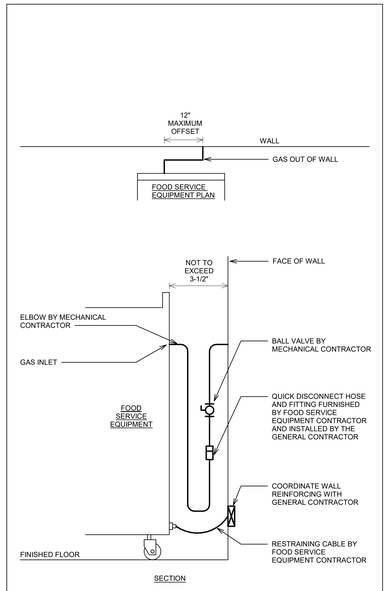
NOTES:
1. BOX AND SUPPORT TO BE PAINTED WITH ONE COAT ZINC CHROMATE PRIMER AND TWO COATS OF COLOR AND PAINT TYPE SPECIFIED OR LEAVE AS GALVANIZED SHEET METAL.
2. MOUNT CURB ON BLOCKING SO BOTTOM IS LEVEL WITH TOP OF ROOF INSULATION.

3 ROOF BOX PIPING DETAIL
NO SCALE



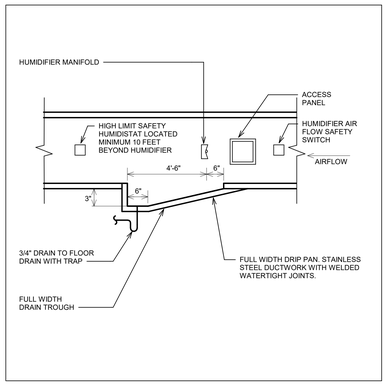
NOTES:
1. TRIPLE DUTY VALVE CAN NOT BE MORE THAN 5'-0" ABOVE FINISH FLOOR.

7 END SUCTION PUMP WITH SUCTION DIFFUSER DETAIL
NO SCALE

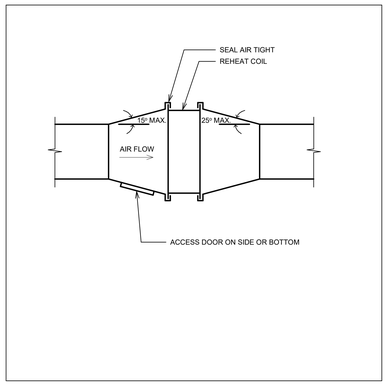


NOTES:
1. IF GAS INLET IS NOT AT HEIGHT SHOWN ON KITCHEN EQUIPMENT SCHEDULE, THE MECHANICAL CONTRACTOR SHALL PROVIDE PIPING WITH ELBOWS TO RAISE INLET.
2. COORDINATE ACCESSORY PROVIDER WITH KITCHEN SUPPLIER.

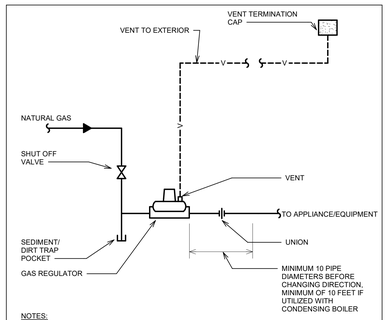
8 GAS CONNECTION DETAIL
NO SCALE



4 DUCT MOUNTED HUMIDIFIER DRIP PAN DETAIL
NO SCALE

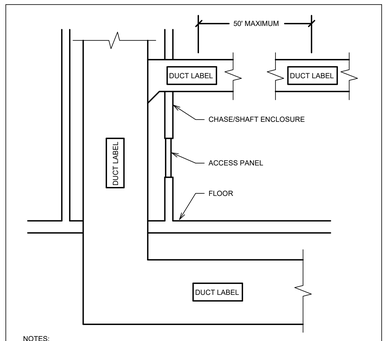


5 REHEAT COIL DUCT CONNECTION
NO SCALE



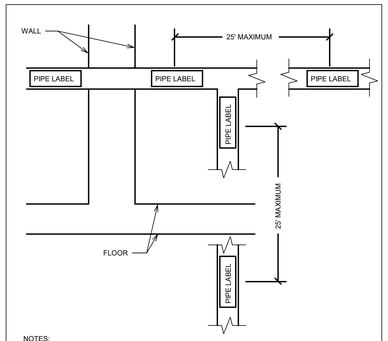
NOTES:
1. SIZE REGULATOR VENT PIPING IN ACCORDANCE WITH REGULATORS MANUFACTURERS INSTRUCTIONS.
2. FOR INDOOR APPLICATIONS.

6 PIPED VENT GAS REGULATOR DETAIL
NO SCALE



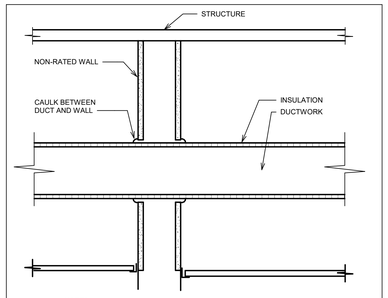
NOTES:
1. DUCT LABEL SHALL INCLUDE DETAILS OUTLINED IN DIVISION 23 SPECIFICATIONS.
2. DUCT LABELS TO BE PROVIDED EVERY 50 FEET AND AT TRANSITIONS INTO ENCLOSED SPACES NOT ACCESSIBLE

9 DUCT LABEL DETAIL
NO SCALE



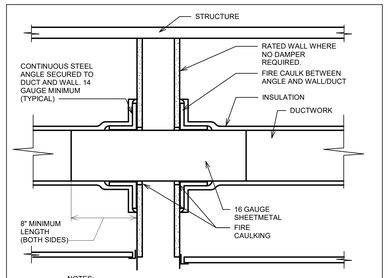
NOTES:
1. PIPE LABEL SHALL INCLUDE DETAILS OUTLINED IN DIVISION 21, 22, 23 SPECIFICATIONS.
2. LABELS SHALL BE LOCATED IMMEDIATELY AT BOTH SIDES OF A WALL.

10 PIPE LABEL DETAIL
NO SCALE



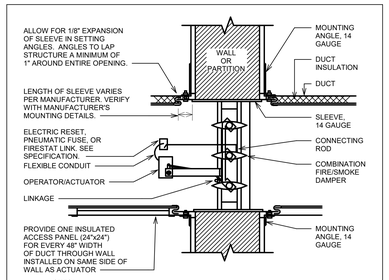
NOTES:
1. FINISH CAULKING WITH 1/4" MINIMUM BEAD OF CAULK APPLIED TO THE PERIMETER OF THE DUCT AT ITS EGRESS FROM THE WALL.

11 DUCT THROUGH NON-RATED WALL PENETRATION DETAIL
NO SCALE



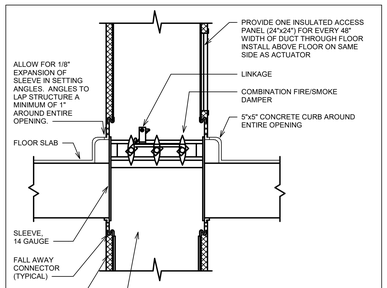
NOTES:
1. THE CAULK SHALL BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE, FLUSH WITH THE EXTERIOR OF PENETRATION SURFACE.
2. FINISH CAULKING WITH 1/4" MINIMUM BEAD OF FIRE CAULK APPLIED TO THE PERIMETER OF THE DUCTWORK AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE SHALL NOT EXCEED 3/16" INSTALL FIRESTOP ON BOTH SIDES OF THE WALL.

12 DUCT THROUGH RATED WALL (NO DAMPER) PENETRATION DETAIL
NO SCALE



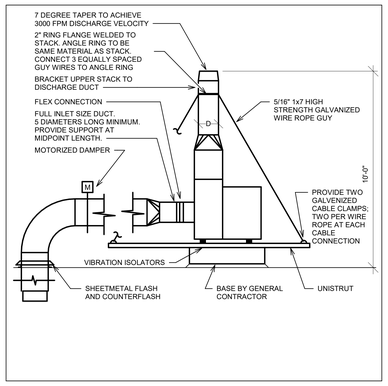
NOTES:
1. CAREFULLY POSITION DAMPER OPERATING SHAFT EXTENSION SO LINKAGE AND ACTUATOR ARE READILY ACCESSIBLE.
2. PROVIDE ACCESS PANEL IN WALLS OR CHASES WHERE REQUIRED.

13 DUCT THROUGH WALL WITH FIRE / SMOKE DAMPER DETAIL
NO SCALE

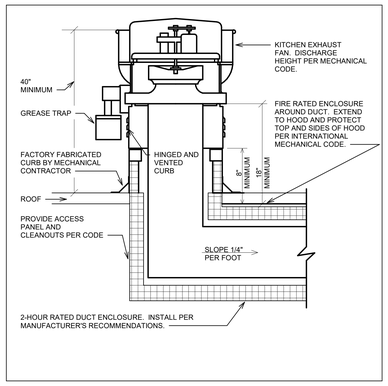


NOTES:
1. CAREFULLY POSITION DAMPER OPERATING SHAFT EXTENSION SO LINKAGE AND ACTUATOR ARE READILY ACCESSIBLE.
2. PROVIDE ACCESS PANEL IN WALLS, CEILING, OR CHASES WHERE REQUIRED.

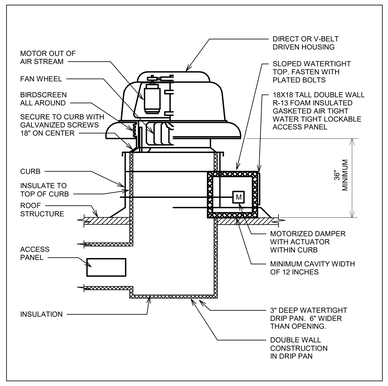
14 DUCT THROUGH FLOOR WITH FIRE / SMOKE DAMPER DETAIL
NO SCALE



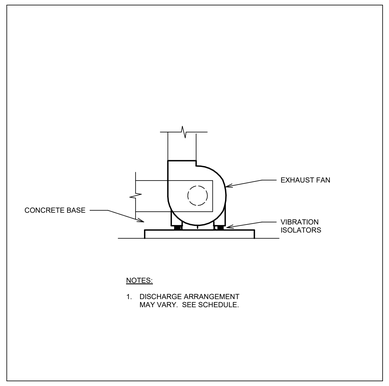
15 ROOF MOUNTED UTILITY SET EXHAUST FAN WITH STACK DETAIL
NO SCALE



16 KITCHEN PRV EXHAUST FAN DETAIL
NO SCALE



17 POWER ROOF VENTILATOR WITH MOTORIZED DAMPER DETAIL
NO SCALE



NOTES:
1. DISCHARGE ARRANGEMENT MAY VARY. SEE SCHEDULE.

18 UTILITY SET EXHAUST FAN DETAIL
NO SCALE

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OWNER
HEALTHPARTNERS
3000 CURVE CREST BLVD
STILLWATER, MN 55082

OWNER'S REPRESENTATIVE
CONCORD GROUP
1000 NORTH WATER STREET SUITE 1550
MILWAUKEE, WI 53202

GENERAL CONTRACTOR
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501 SOUTH 8TH STREET
MINNEAPOLIS, MN 55404

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ASSOCIATE ARCHITECT
BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

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DUNHAM ASSOCIATES DUNHAM PROJECT # 0420-120-0015.00
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ERA STRUCTURAL ENGINEERING
2550 UNIVERSITY AVE W SUITE 423S
SAINT PAUL, MN 55114

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MAPLE GROVE, MN 55369

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10650 RED CIRCLE DRIVE, SUITE 100
MINNEAPOLIS, MN 55343

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3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000
DATE
09/22/2025
ISSUE
BP-03 INTERIOR FIT-OUT MEP
SHEET TITLE
MECHANICAL DETAILS
SHEET NO.
M6.02

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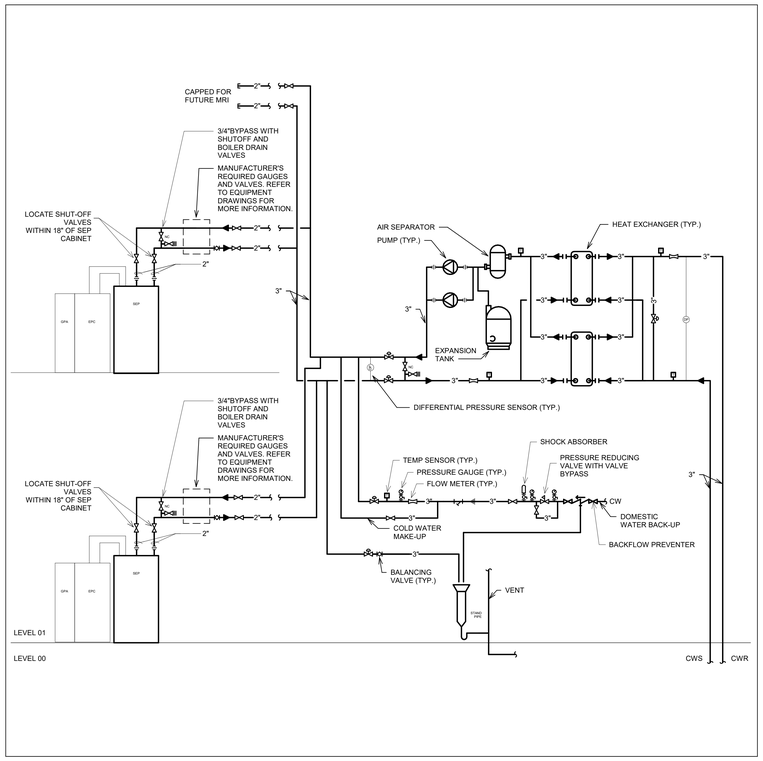
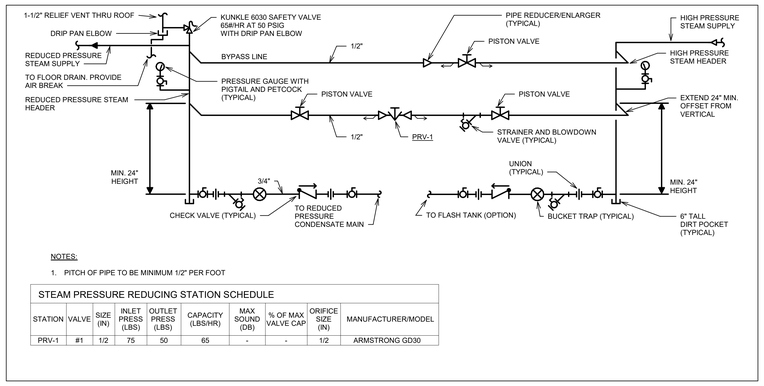


1 MRI CHILLED WATER PIPING SCHEMATIC
NO SCALE



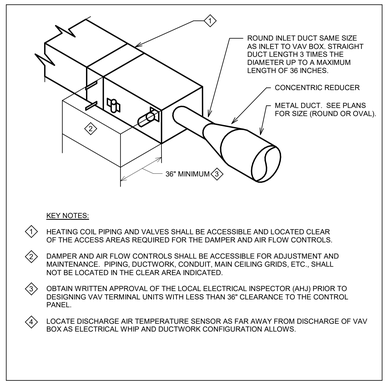
NOTES:

1. PITCH OF PIPE TO BE MINIMUM 1/2" PER FOOT

STEAM PRESSURE REDUCING STATION SCHEDULE

STATION	VALVE	SIZE (IN)	INLET PRESS (LBS)	OUTLET PRESS (LBS)	CAPACITY (LBS/HR)	MAX SOUND (DB)	% OF MAX VALVE CAP	ORIFICE SIZE (IN)	MANUFACTURER/MODEL
PRV-1	#1	1/2	75	50	65	-	-	1/2	ARMSTRONG GD30

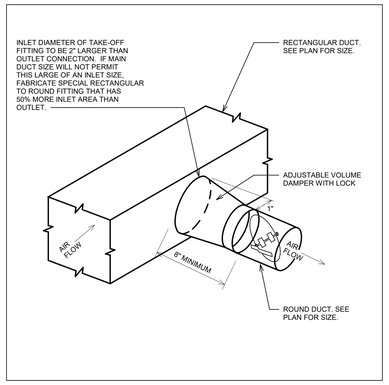
2 STEAM PRESSURE REDUCING STATION DETAIL
NO SCALE



KEY NOTES:

1. HEATING COIL PIPING AND VALVES SHALL BE ACCESSIBLE AND LOCATED CLEAR OF THE ACCESS AREAS REQUIRED FOR THE DAMPER AND AIR FLOW CONTROLS.
2. DAMPER AND AIR FLOW CONTROLS SHALL BE ACCESSIBLE FOR ADJUSTMENT AND MAINTENANCE. PIPING, DUCTWORK, CONDUIT, MAIN CEILING GRIDS, ETC., SHALL NOT BE LOCATED IN THE CLEAR AREA INDICATED.
3. OBTAIN WRITTEN APPROVAL OF THE LOCAL ELECTRICAL INSPECTOR (AHJ) PRIOR TO DESIGNING VAV TERMINAL UNITS WITH LESS THAN 36" CLEARANCE TO THE CONTROL PANEL.
4. LOCATE DISCHARGE AIR TEMPERATURE SENSOR AS FAR AWAY FROM DISCHARGE OF VAV BOX AS ELECTRICAL WHIP AND DUCTWORK CONFIGURATION ALLOWS.

3 TERMINAL UNIT INSTALLATION DETAIL
NO SCALE



4 DUCT TAKE-OFF TO DIFFUSER DETAIL
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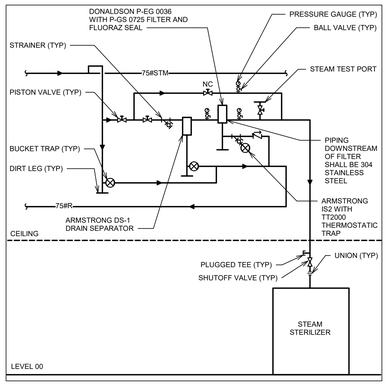
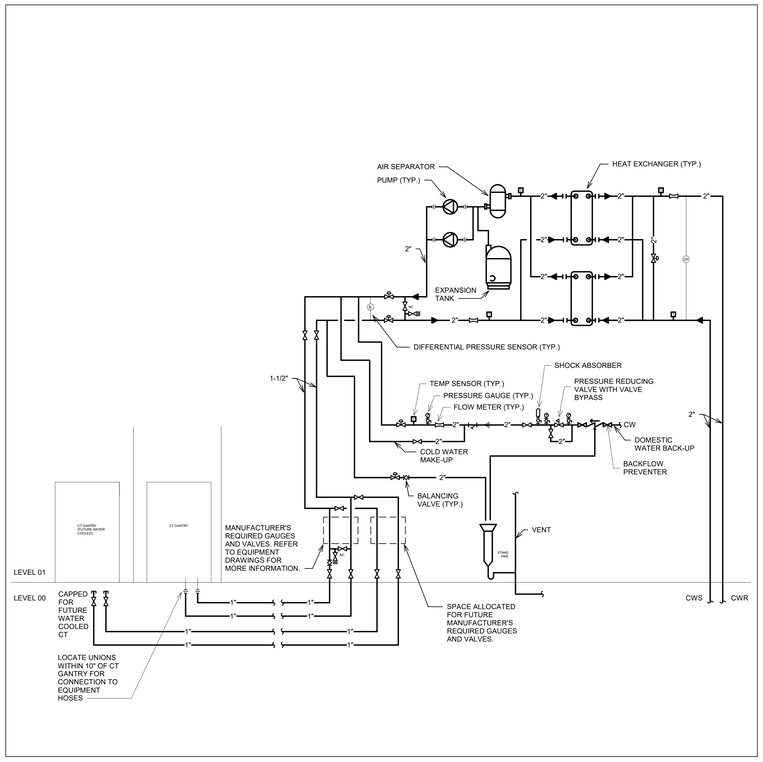


10 STEAM STERILIZER HYDRONIC DETAIL
NO SCALE



5 CT CHILLED WATER PIPING SCHEMATIC
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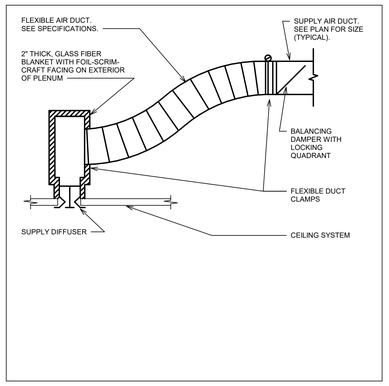

6 DUCT TO LINEAR DIFFUSER CONNECTION DETAIL
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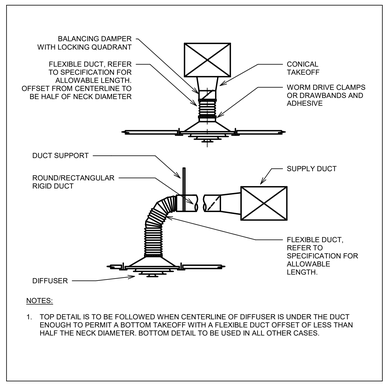
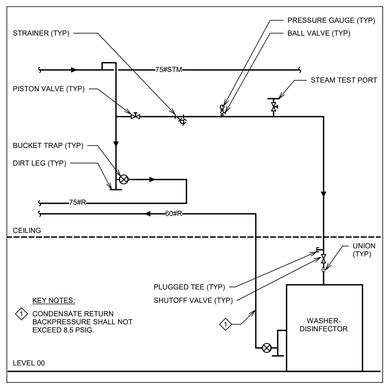


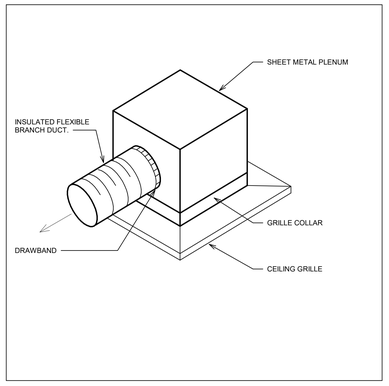
NOTES:

1. TOP DETAIL IS TO BE FOLLOWED WHEN CENTERLINE OF DIFFUSER IS UNDER THE DUCT ENOUGH TO PERMIT A BOTTOM TAKEOFF WITH A FLEXIBLE DUCT OFFSET OF LESS THAN HALF THE NECK DIAMETER. BOTTOM DETAIL TO BE USED IN ALL OTHER CASES.

7 CEILING DIFFUSER RUNOUT DETAIL
NO SCALE



11 WASHER-DISINFECTOR HYDRONIC DETAIL
NO SCALE



8 RETURN GRILLE CONNECTION DETAIL
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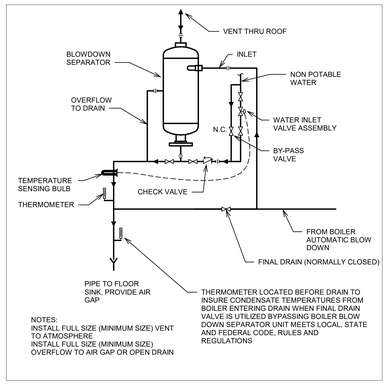
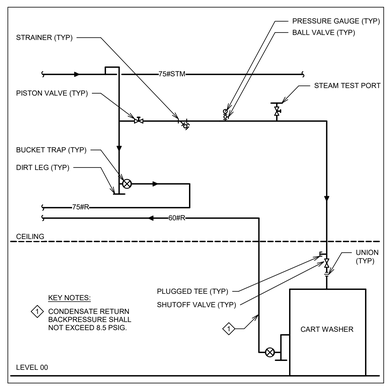


NOTES:
INSTALL FULL SIZE (MINIMUM SIZE) VENT TO ATMOSPHERE
INSTALL FULL SIZE (MINIMUM SIZE) OVERFLOW TO AIR GAP OR OPEN DRAIN

9 BLOW DOWN SEPARATOR
NO SCALE



12 CART WASHER HYDRONIC DETAIL
NO SCALE

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3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

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Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

REVISION
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DATE
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SHEET TITLE
MECHANICAL DETAILS

SHEET NO.
M6.03

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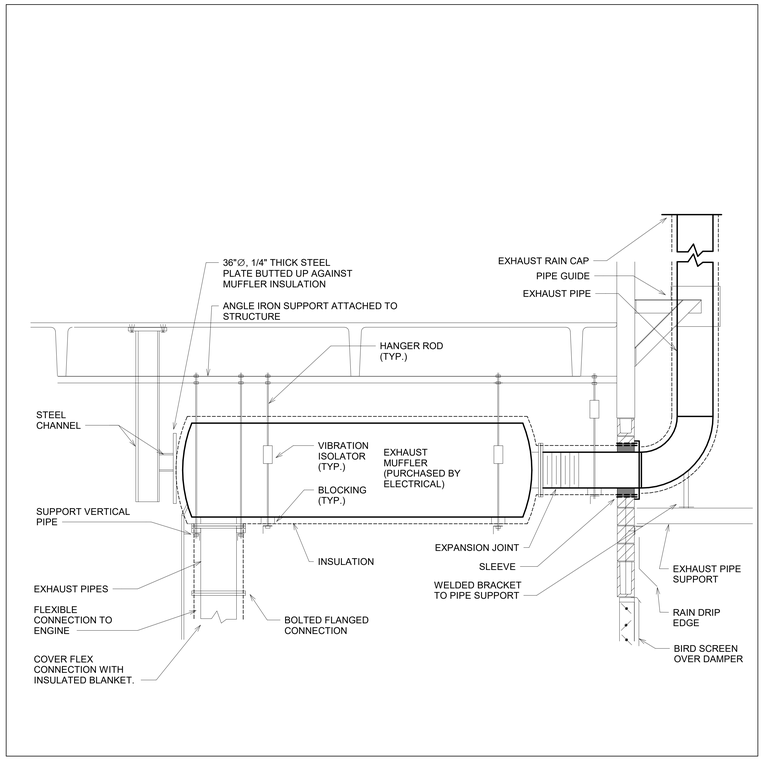

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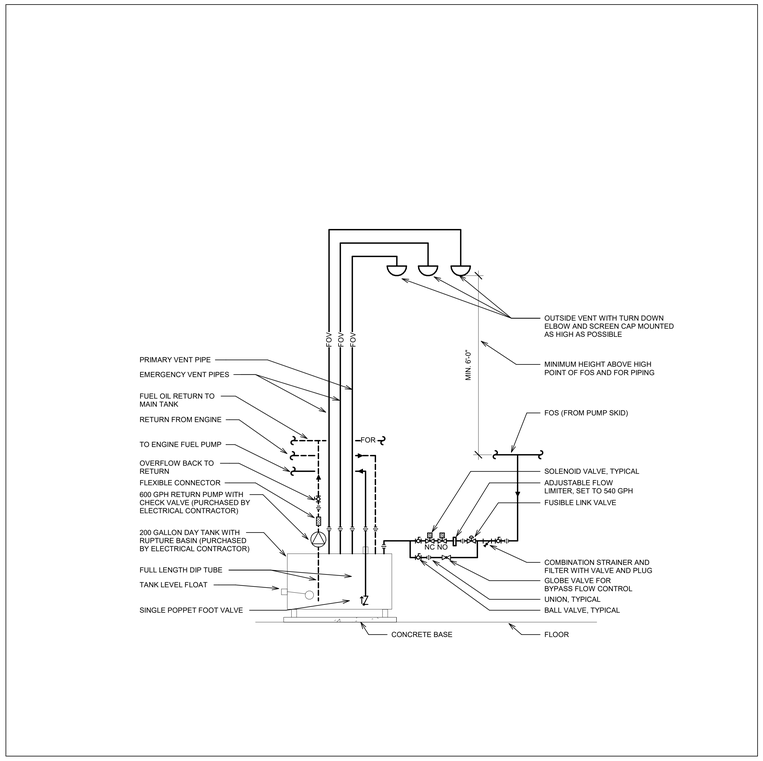

2 DAY TANK DETAIL
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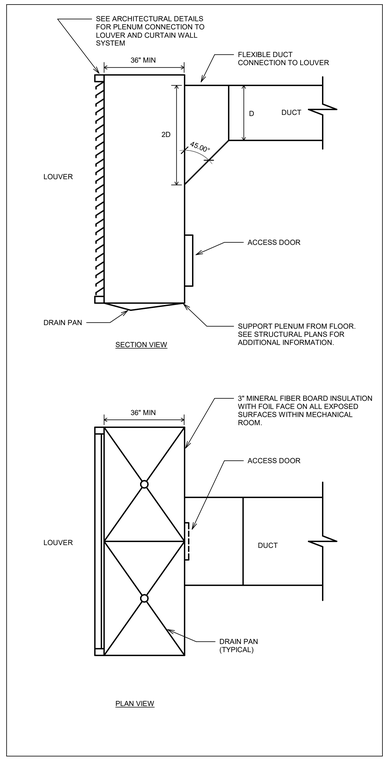

3 PLENUM DETAIL
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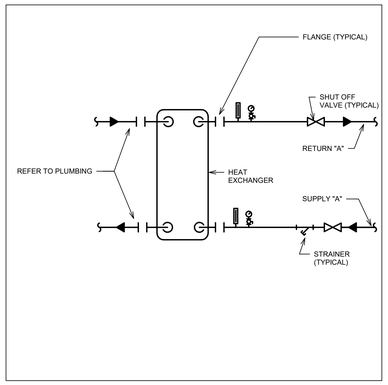
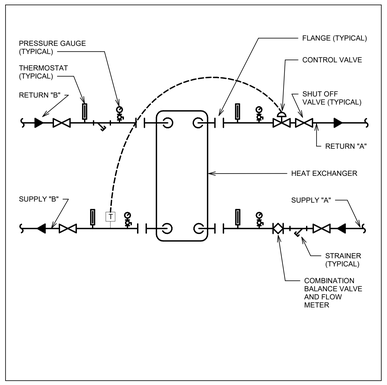


4 PLATE AND FRAME EXCHANGER PIPING DETAIL (HX 03)
NO SCALE



5 PLATE AND FRAME HEAT EXCHANGER PIPING DETAIL (HX 04)
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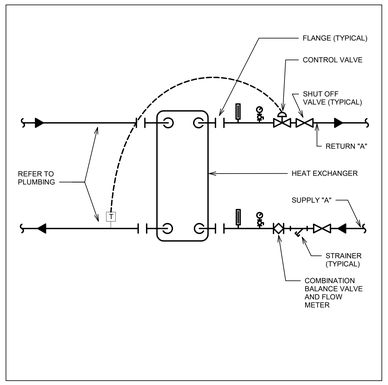

6 PLATE AND FRAME HEAT EXCHANGER PIPING DETAIL (HX 11)
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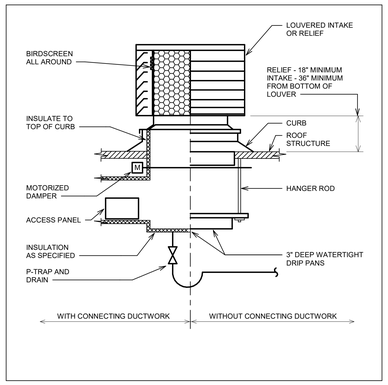
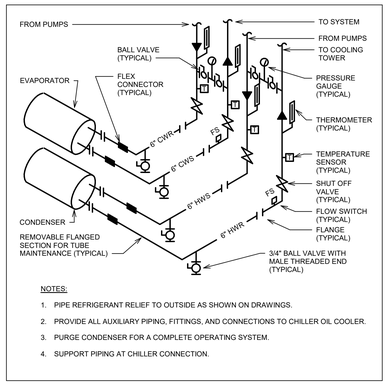


7 GRAVITY INTAKE OR RELIEF DETAIL
NO SCALE



NOTES:

1. PIPE REFRIGERANT RELIEF TO OUTSIDE AS SHOWN ON DRAWINGS.
2. PROVIDE ALL AUXILIARY PIPING, FITTINGS, AND CONNECTIONS TO CHILLER OIL COOLER.
3. PURGE CONDENSER FOR A COMPLETE OPERATING SYSTEM.
4. SUPPORT PIPING AT CHILLER CONNECTION.

8 WATER CHILLER PIPING DETAIL (CH 04)
NO SCALE

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Date 09/22/2025 Reg. No. 59587

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NO. DESCRIPTION DATE

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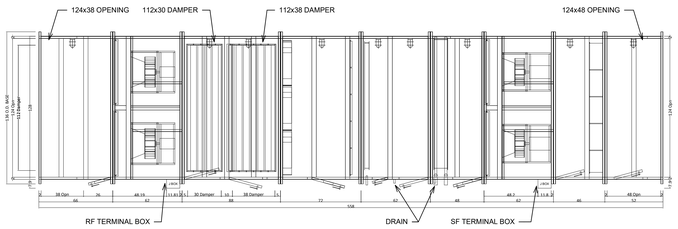
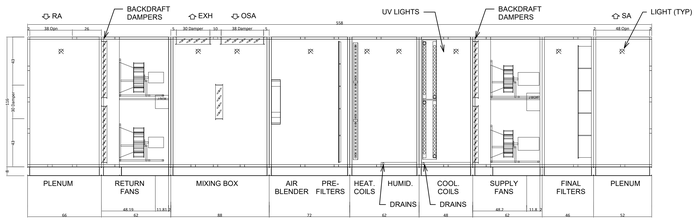


PLAN VIEW



ELEVATION

1 AIR HANDLING UNIT 01
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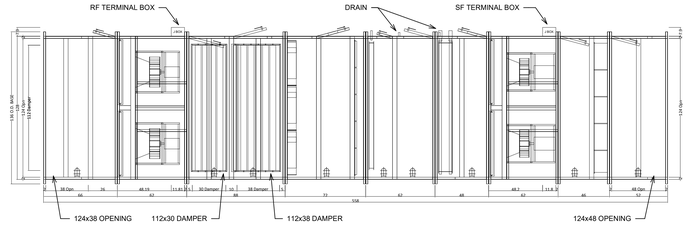
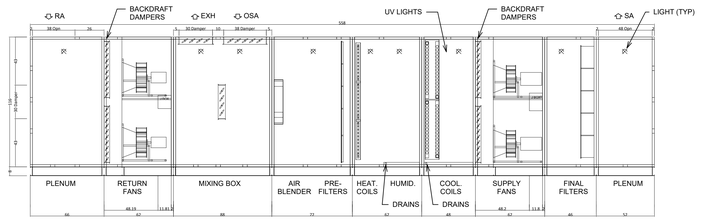


PLAN VIEW



ELEVATION

2 AIR HANDLING UNIT 02
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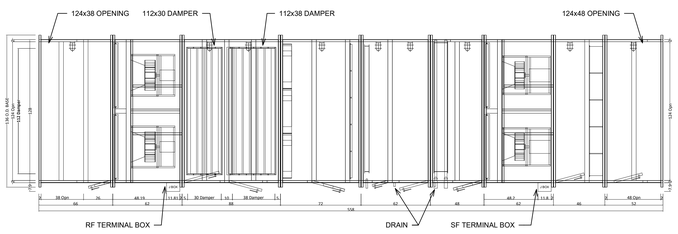
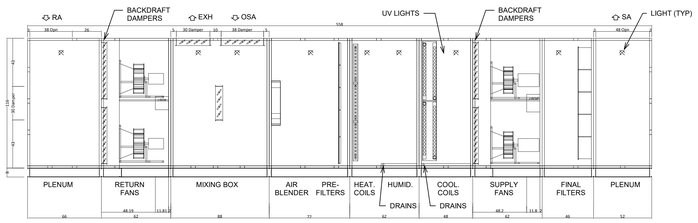


PLAN VIEW



ELEVATION

3 AIR HANDLING UNIT 03
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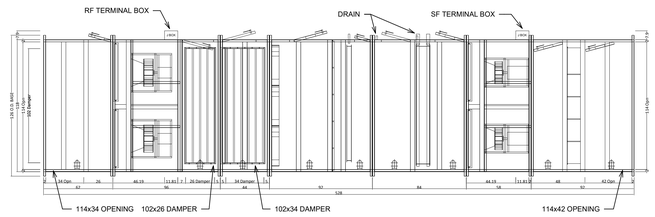

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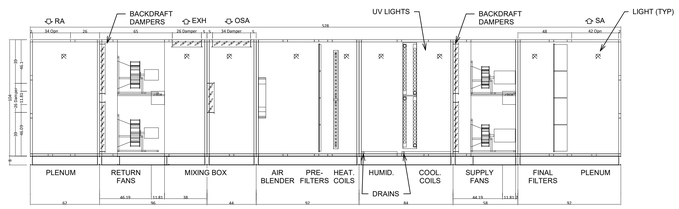

ELEVATION

4 AIR HANDLING UNIT 04
NO SCALE

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SHEET TITLE
AIR HANDLING UNIT DETAILS

SHEET NO.
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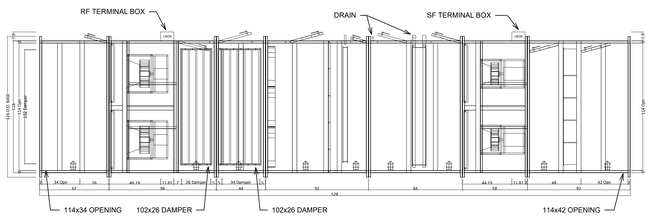
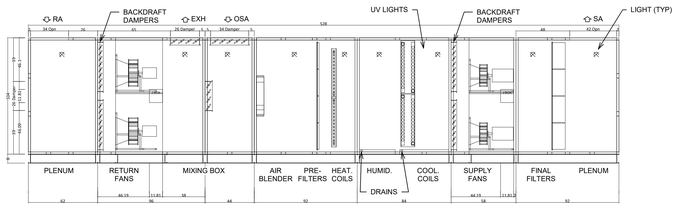
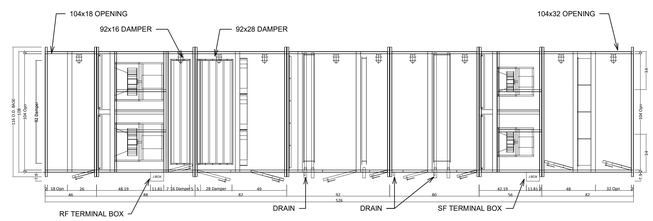


PLAN VIEW

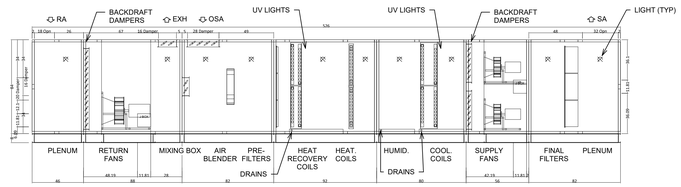


ELEVATION

1 AIR HANDLING UNIT 05
NO SCALE

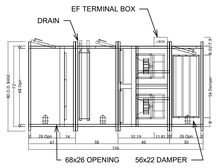


PLAN VIEW

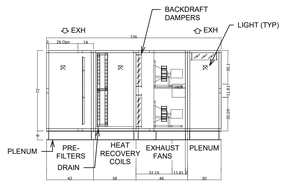


ELEVATION

2 AIR HANDLING UNIT 06
NO SCALE

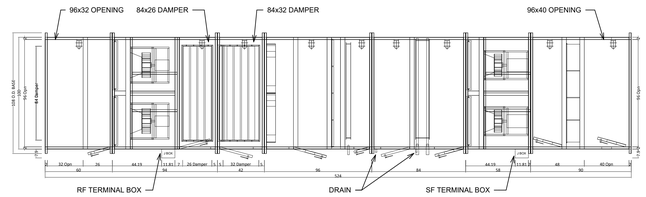


PLAN VIEW

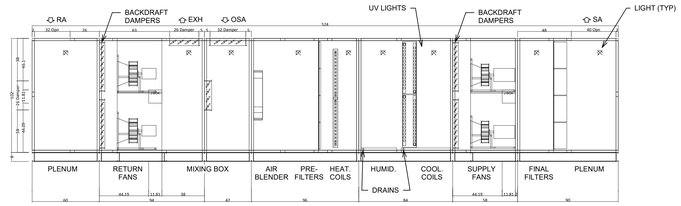


ELEVATION

3 AIR HANDLING UNIT EF-06
NO SCALE



PLAN VIEW



ELEVATION

4 AIR HANDLING UNIT 07
NO SCALE

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MILWAUKEE, WI 53202

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MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 0424-DA-001-00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

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ERA STRUCTURAL ENGINEERING
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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE
	MECH PROCUREMENT	03/21/2025

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

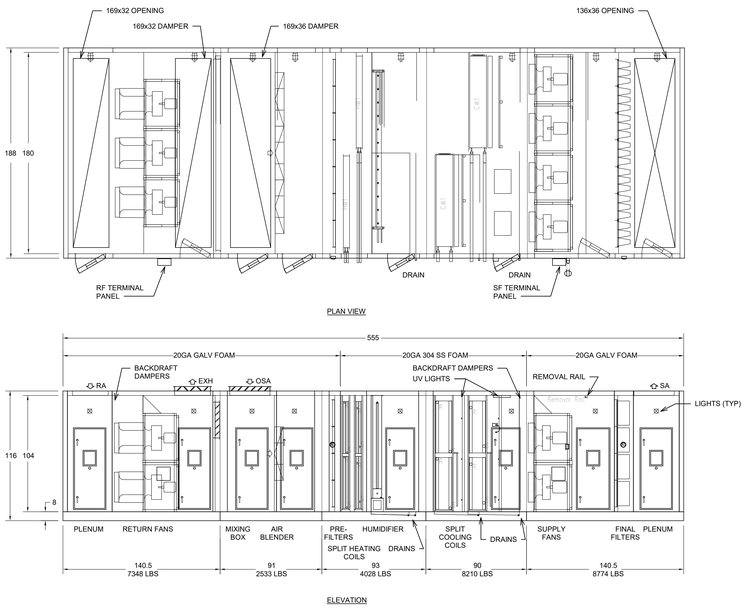
SHEET TITLE
AIR HANDLING UNIT DETAILS

SHEET NO.
M6.11

PLOT DATE:
9/18/2025 6:28:48 PM TEMPLATE VERSION 23.0.4

GENERAL NOTES:

A. THE DIMENSIONS INDICATED ARE ONES THAT HAVE BEEN COORDINATED WITH ALL TRADES. THESE ARE INTENDED TO BE THE MAXIMUM DIMENSIONS AND SHALL NOT BE EXCEEDED WITHOUT FURTHER REVIEW BY ENGINEER.



1 AIR HANDLING UNIT 08
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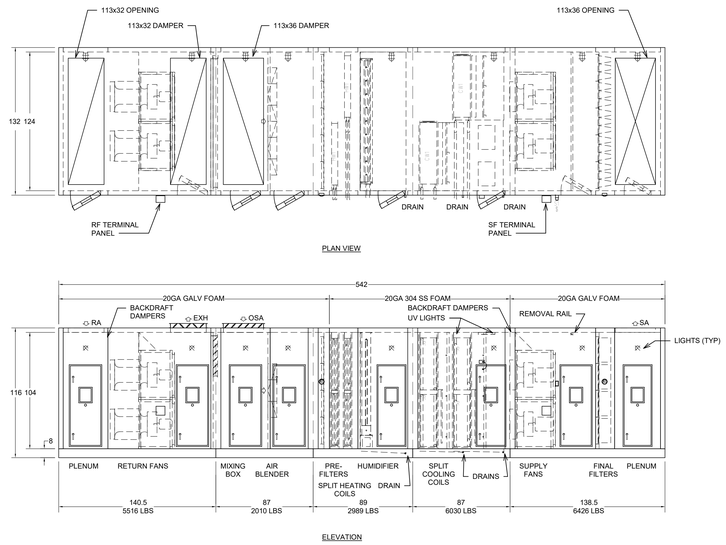

2 AIR HANDLING UNIT 09
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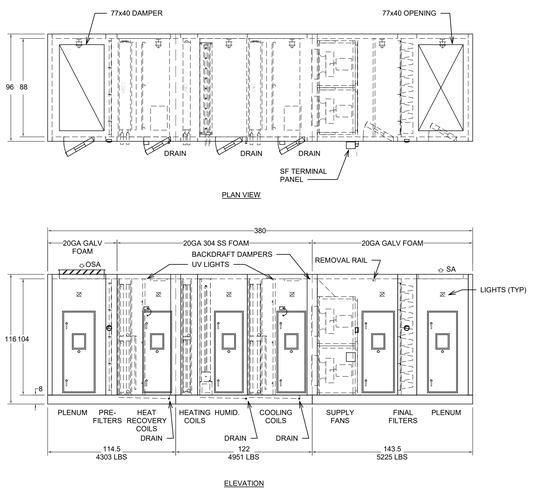

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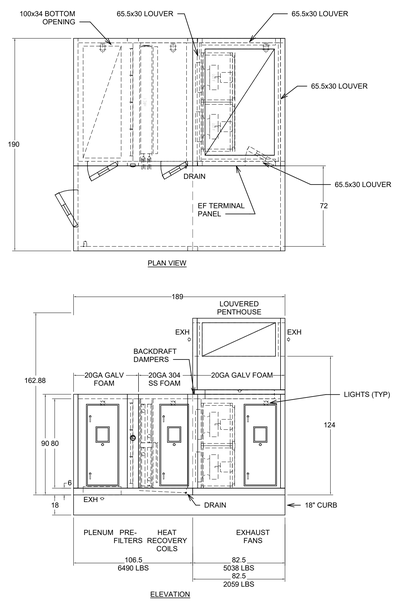

4 AIR HANDLING UNIT EF-10
NO SCALE

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Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE
	MECH PROCUREMENT	03/21/2025

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26146.000
DATE
09/22/2025
ISSUE
BP-03 INTERIOR FIT-OUT MEP
SHEET TITLE
AIR HANDLING UNIT DETAILS
SHEET NO.
M6.12

PLOT DATE:
9/18/2025 6:26:48 PM TEMPLATE VERSION 23.0.4

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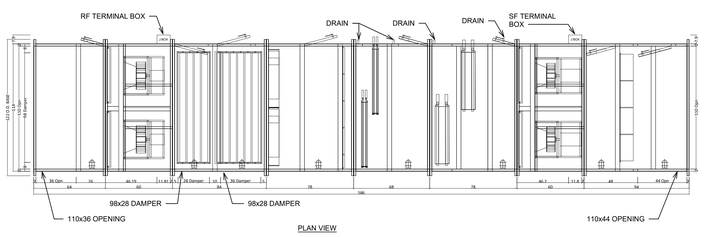
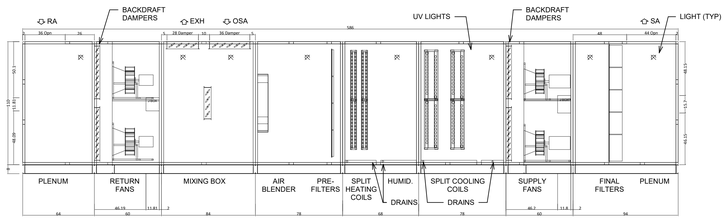


PLAN VIEW



ELEVATION

1 AIR HANDLING UNIT 11
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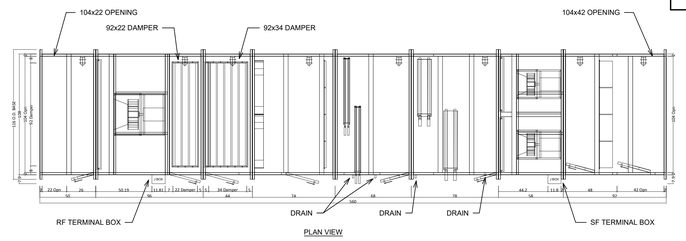
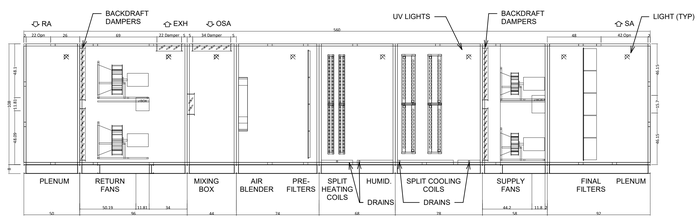


PLAN VIEW



ELEVATION

2 AIR HANDLING UNIT 12
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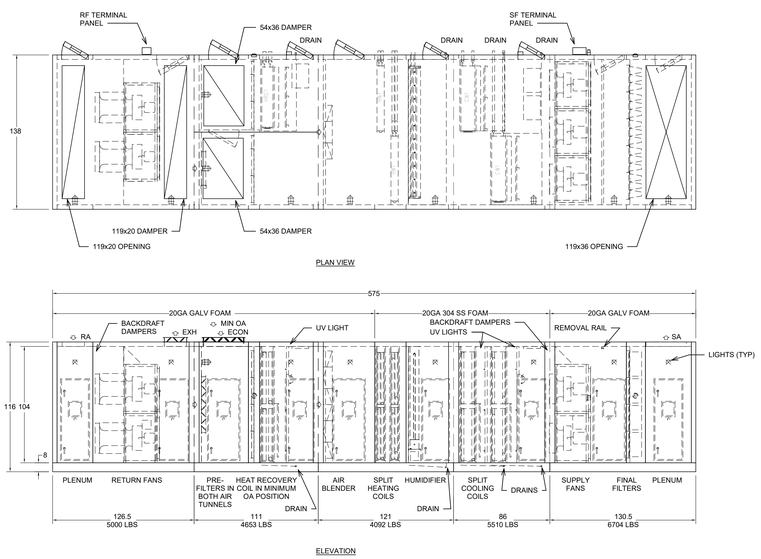
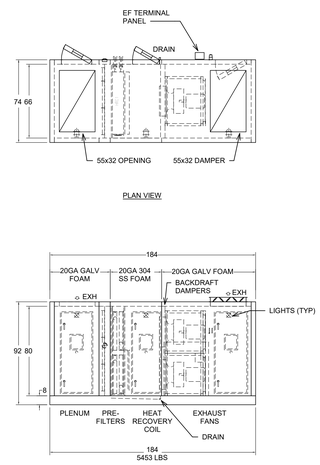


PLAN VIEW

ELEVATION

3 AIR HANDLING UNIT 13
NO SCALE



PLAN VIEW

ELEVATION

4 AIR HANDLING UNIT EF-13
NO SCALE

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BWBR
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SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 5424-25-001-00
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Date 09/22/2025 Reg. No. 59587

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DATE
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SHEET TITLE
AIR HANDLING UNIT DETAILS

SHEET NO.
M6.13

PLOT DATE:
9/18/2025 6:26:48 PM TEMPLATE VERSION 23.0.4

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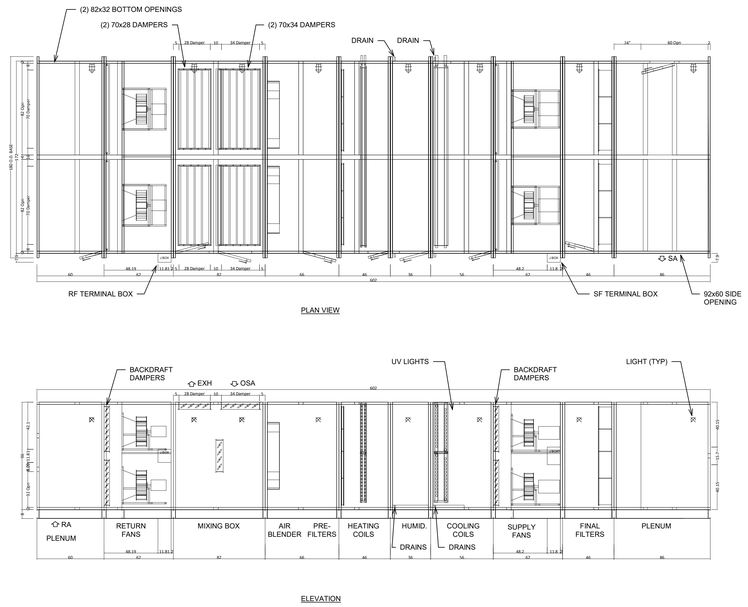

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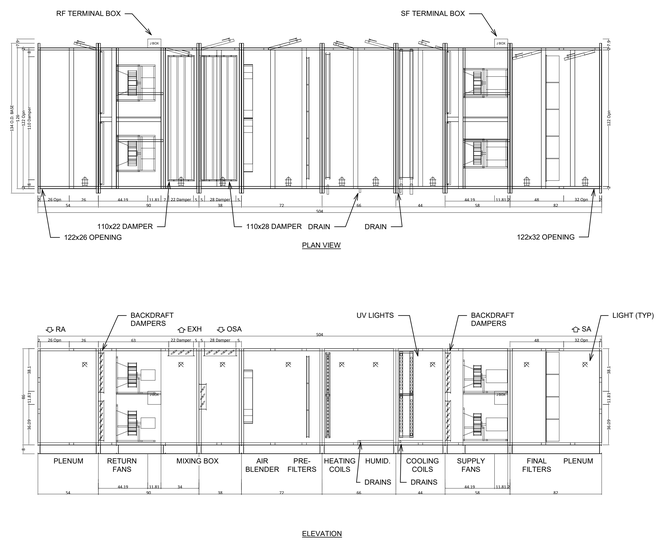

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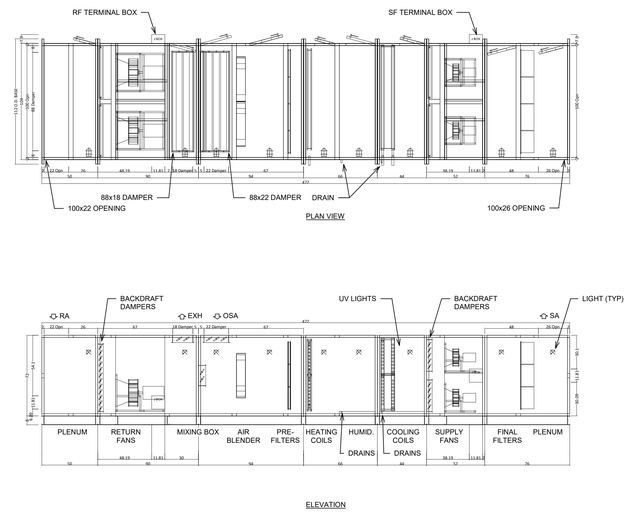

3 AIR HANDLING UNIT 16
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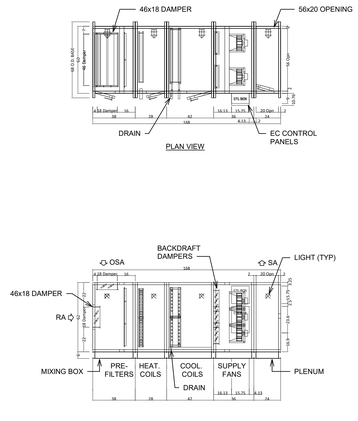

4 AIR HANDLING UNIT 17
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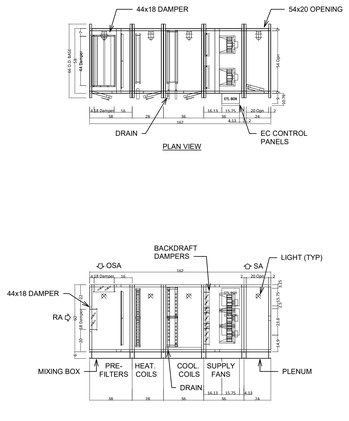

5 AIR HANDLING UNIT 18
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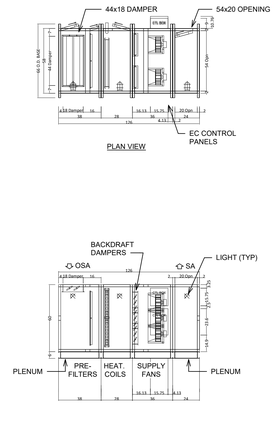
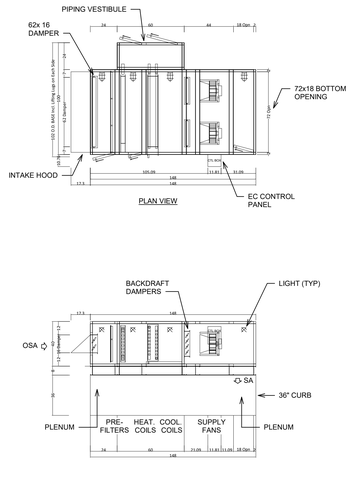


6 AIR HANDLING UNIT 19
NO SCALE



7 AIR HANDLING UNIT 20
NO SCALE

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BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 042412-001-00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

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SAINT PAUL, MN 55114

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Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

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ISSUE
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SHEET TITLE
AIR HANDLING UNIT DETAILS

SHEET NO.
M6.14

PLOT DATE:
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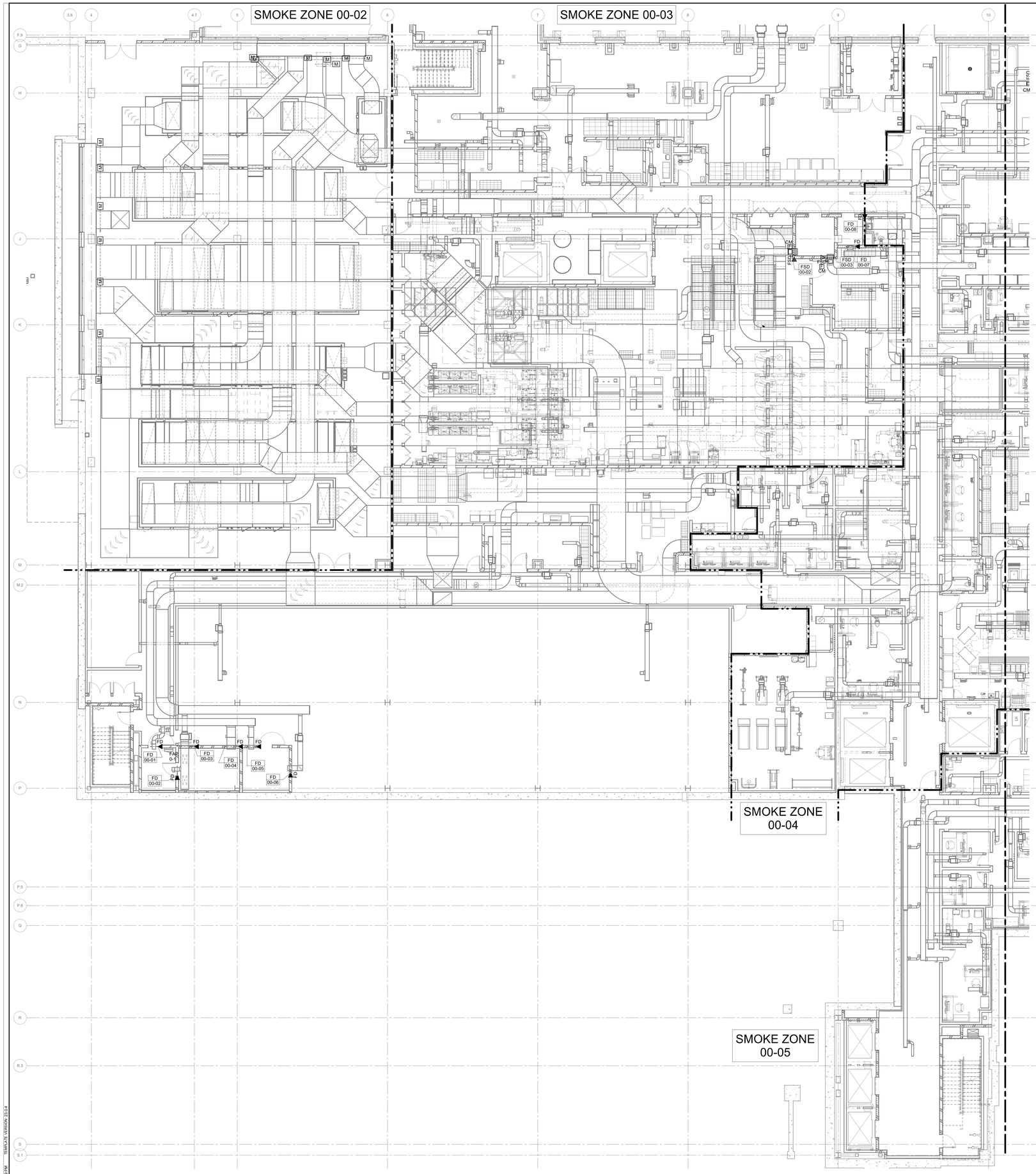

1 DAMPER PLAN - LEVEL 00 - WEST WING
1/8" = 1'-0"

SMOKE BARRIER

SMOKE BARRIERS INDICATED ON THIS PLAN ARE BASED ON ARCHITECTURAL LIFE SAFETY PLAN. REFER TO ARCHITECTURAL LIFE SAFETY PLANS FOR EXACT LOCATIONS.

GENERAL NOTES:

A. PROVIDE CONTROL MODULE AT ALL FIRE/SMOKE DAMPERS. PROGRAM CONTROL MODULE SO DAMPER CLOSES UPON AREA ACTIVATION. COORDINATE PROGRAMMING WITH FIRE ALARM FIRE/SMOKE DAMPER SCHEDULE ON SHEET ME4.00. DAMPERS PROVIDED BY MECHANICAL CONTRACTOR. INSTALL FIRE ALARM CONTROL MODULES SUCH THAT THEY ARE ACCESSIBLE FOR MAINTENANCE. REFER TO ELECTRICAL POWER PLANS FOR CIRCUITING.

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Name Justin A. Thiner, P.E.
Date 09/22/2025 Reg. No. 48171

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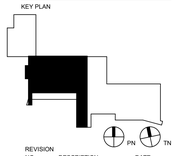
Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
DAMPER PLAN - LEVEL 00 - WEST WING

SHEET NO.
ME2.00A

PLOT DATE: 9/16/2025 6:26:59 PM TEMPLATE VERSION: 23.0.4

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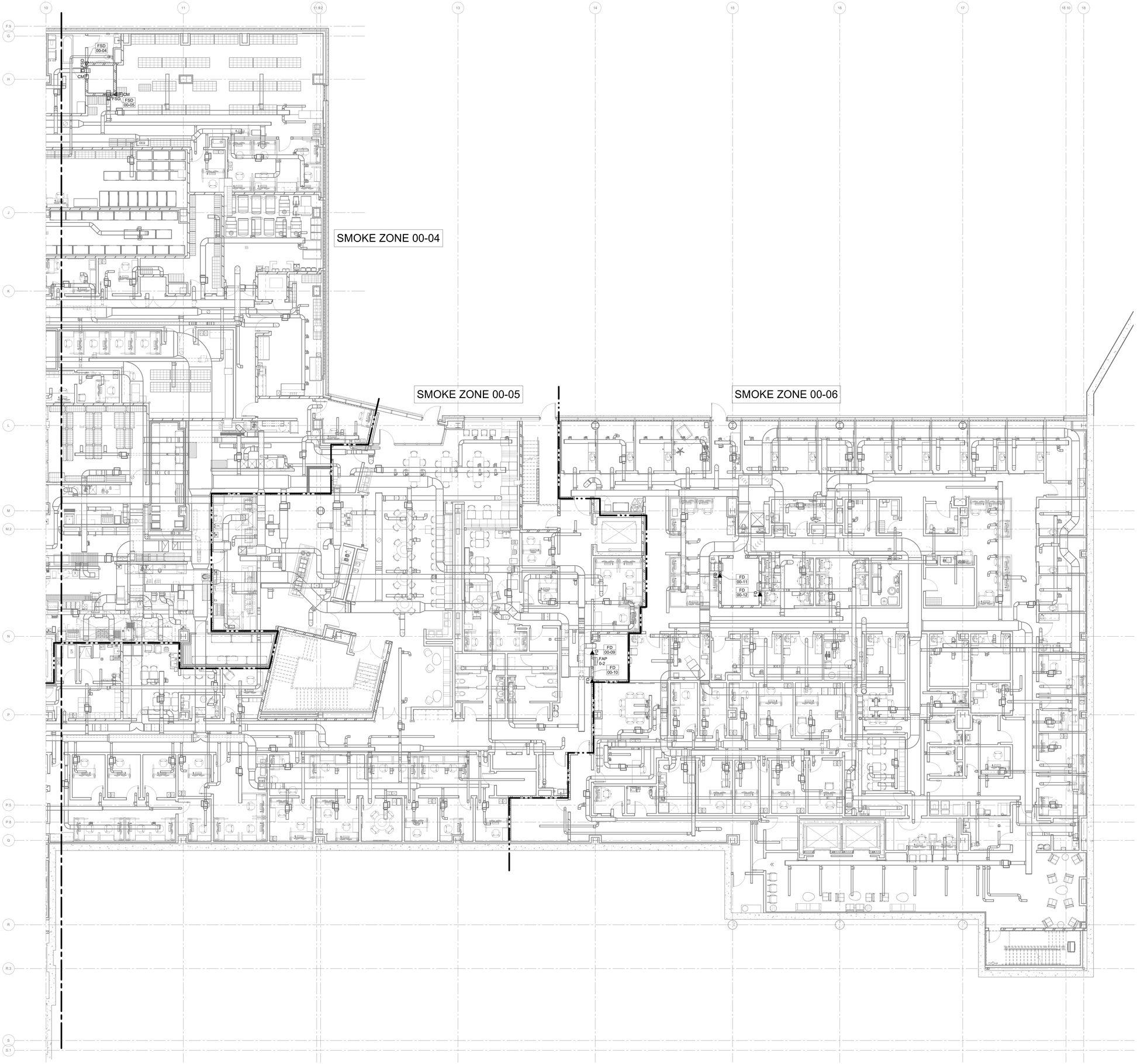

1 DAMPER PLAN - LEVEL 00 - EAST WING
1/8" = 1'-0"

SMOKE BARRIER

SMOKE BARRIERS INDICATED ON THIS PLAN ARE BASED ON ARCHITECTURAL LIFE SAFETY PLAN. REFER TO ARCHITECTURAL LIFE SAFETY PLANS FOR EXACT LOCATIONS.

GENERAL NOTES:

A. PROVIDE CONTROL MODULE AT ALL FIRE/SMOKE DAMPERS. PROGRAM CONTROL MODULE SO DAMPER CLOSES UPON AREA ACTIVATION. COORDINATE PROGRAMMING WITH FIRE ALARM FIRE/SMOKE DAMPER SCHEDULE ON SHEET ME4.00. DAMPERS PROVIDED BY MECHANICAL CONTRACTOR. INSTALL FIRE ALARM CONTROL MODULES SUCH THAT THEY ARE ACCESSIBLE FOR MAINTENANCE. REFER TO ELECTRICAL POWER PLANS FOR CIRCUITING.

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3000 CURVE CREST BLVD
STILLWATER, MN 55082

OWNER'S REPRESENTATIVE
CONCORD GROUP
1000 NORTH WATER STREET SUITE 1550
MILWAUKEE, WI 53202

GENERAL CONTRACTOR
KRAUS-ANDERSON
501 SOUTH 8TH STREET
MINNEAPOLIS, MN 55404

ARCHITECT OF RECORD
HKS, INC.
125 SOUTH CLARK STREET, SUITE 1100
CHICAGO, IL 60603

ASSOCIATE ARCHITECT
BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 5424-25-001-00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

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ERA STRUCTURAL ENGINEERING
2550 UNIVERSITY AVE W SUITE 423S
SAINT PAUL, MN 55114

CIVIL ENGINEER/LANDSCAPE
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7200 HEMLOCK LANE, SUITE 300
MAPLE GROVE, MN 55369

MEDICAL EQUIPMENT
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12755 HIGHWAY 55, SUITE 100
MINNEAPOLIS, MN 55441

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VDA, INC.
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Name Justin A. Thiner, P.E.
Date 09/22/2025 Reg. No. 48171

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Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

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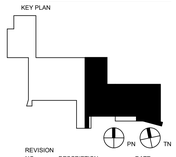

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
DAMPER PLAN - LEVEL 00 - EAST WING

SHEET NO.
ME2.00B

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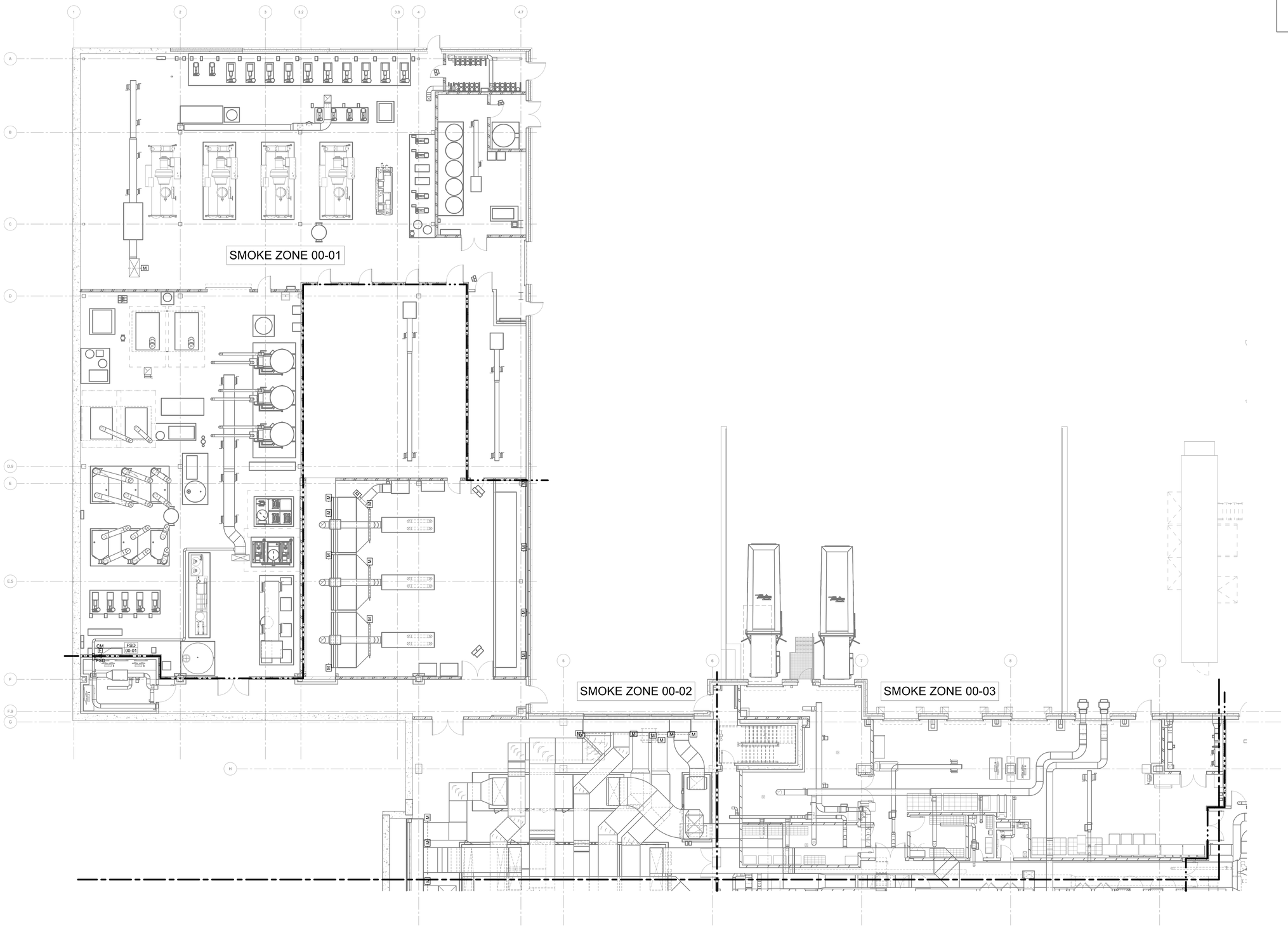

1 DAMPER PLAN - LEVEL 00 - CUP
1/8" = 1'-0"

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BWBR
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SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 5424-25-001-00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

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ERA STRUCTURAL ENGINEERING
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VDA, INC.
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Name Alyse M. Finley, P.E.

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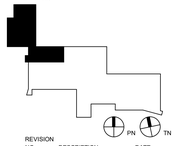

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26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
DAMPER PLAN - LEVEL 00 - CUP

SHEET NO.
ME2.00C

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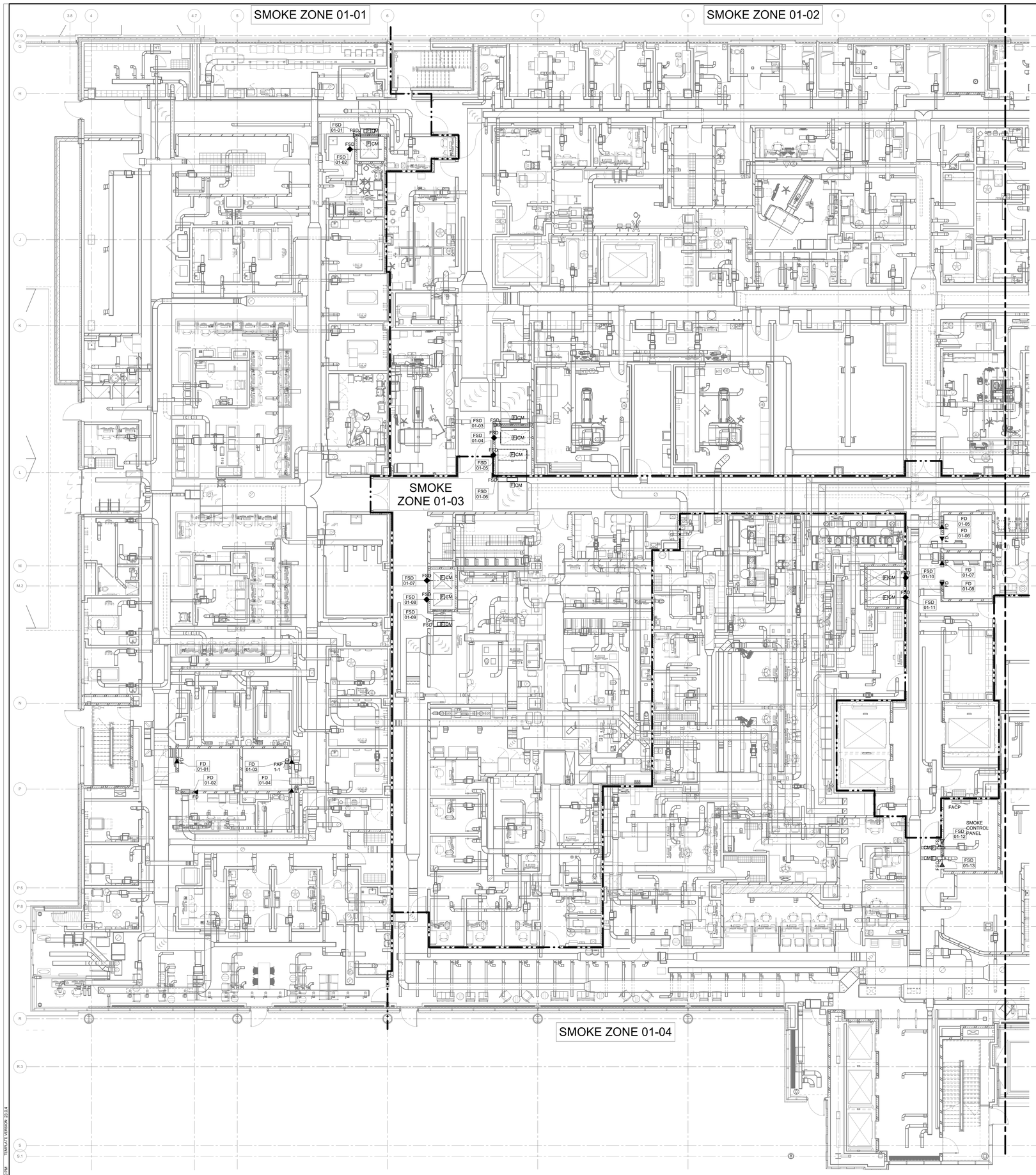

1 DAMPER PLAN - LEVEL 01 - WEST WING
1/8" = 1'-0"

SMOKE BARRIER

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SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 5424-120-00-00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
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2550 UNIVERSITY AVE W SUITE 423S
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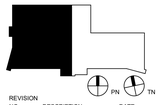

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26146.000

DATE
09/22/2025

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BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
DAMPER PLAN - LEVEL 01 - WEST WING

SHEET NO.
ME2.01A

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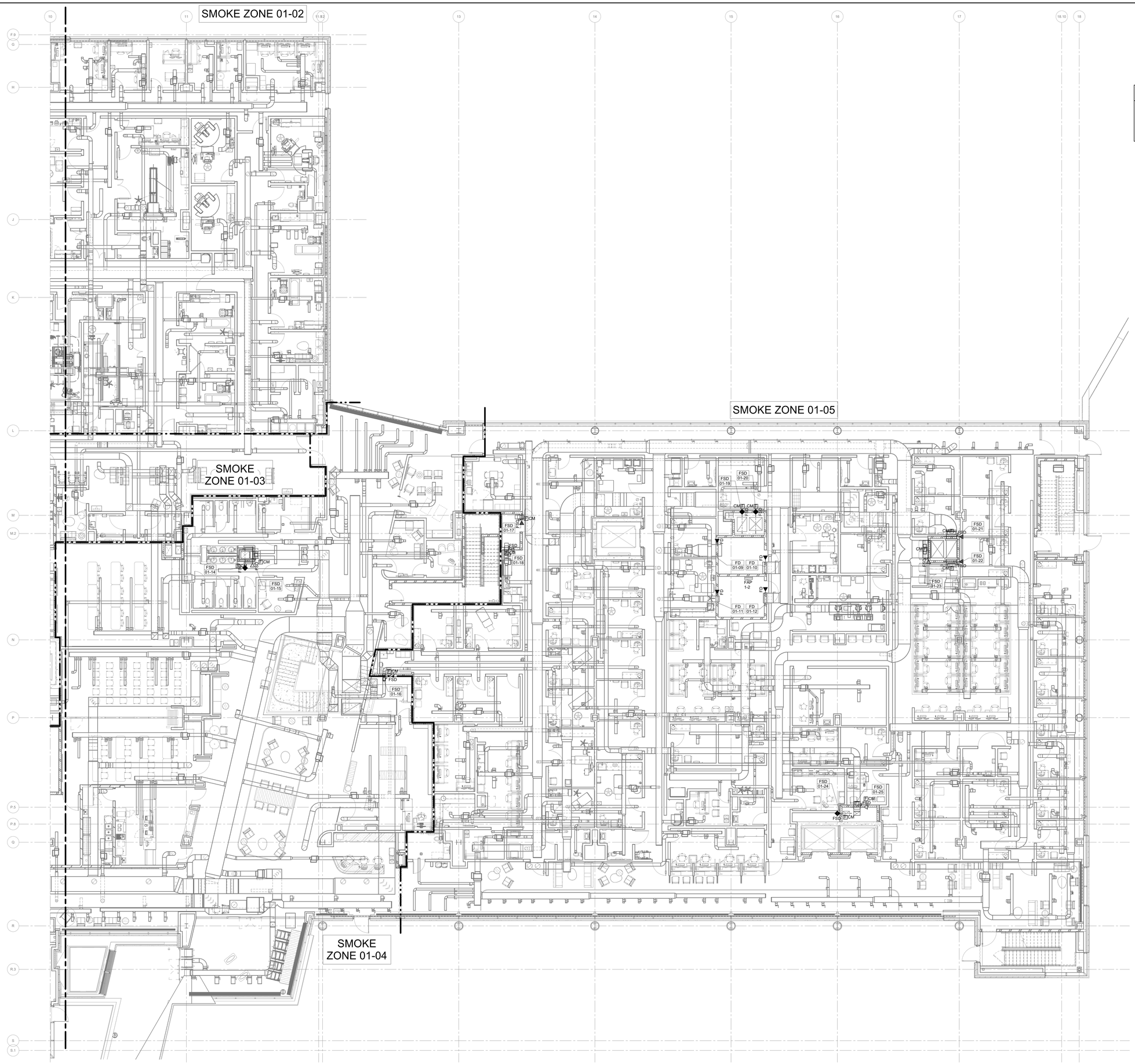

1 DAMPER PLAN - LEVEL 01 - EAST WING
1/8" = 1'-0"

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MILWAUKEE, WI 53202

GENERAL CONTRACTOR
KRAUS-ANDERSON
501 SOUTH 8TH STREET
MINNEAPOLIS, MN 55404

ARCHITECT OF RECORD
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CHICAGO, IL 60603

ASSOCIATE ARCHITECT
BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 5420-25-001-00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
2550 UNIVERSITY AVE W SUITE 423S
SAINT PAUL, MN 55114

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MAPLE GROVE, MN 55369

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MINNEAPOLIS, MN 55441

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Date 09/22/2025 Reg. No. 59587

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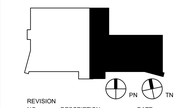

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
DAMPER PLAN - LEVEL 01 - EAST WING

SHEET NO.
ME2.01B

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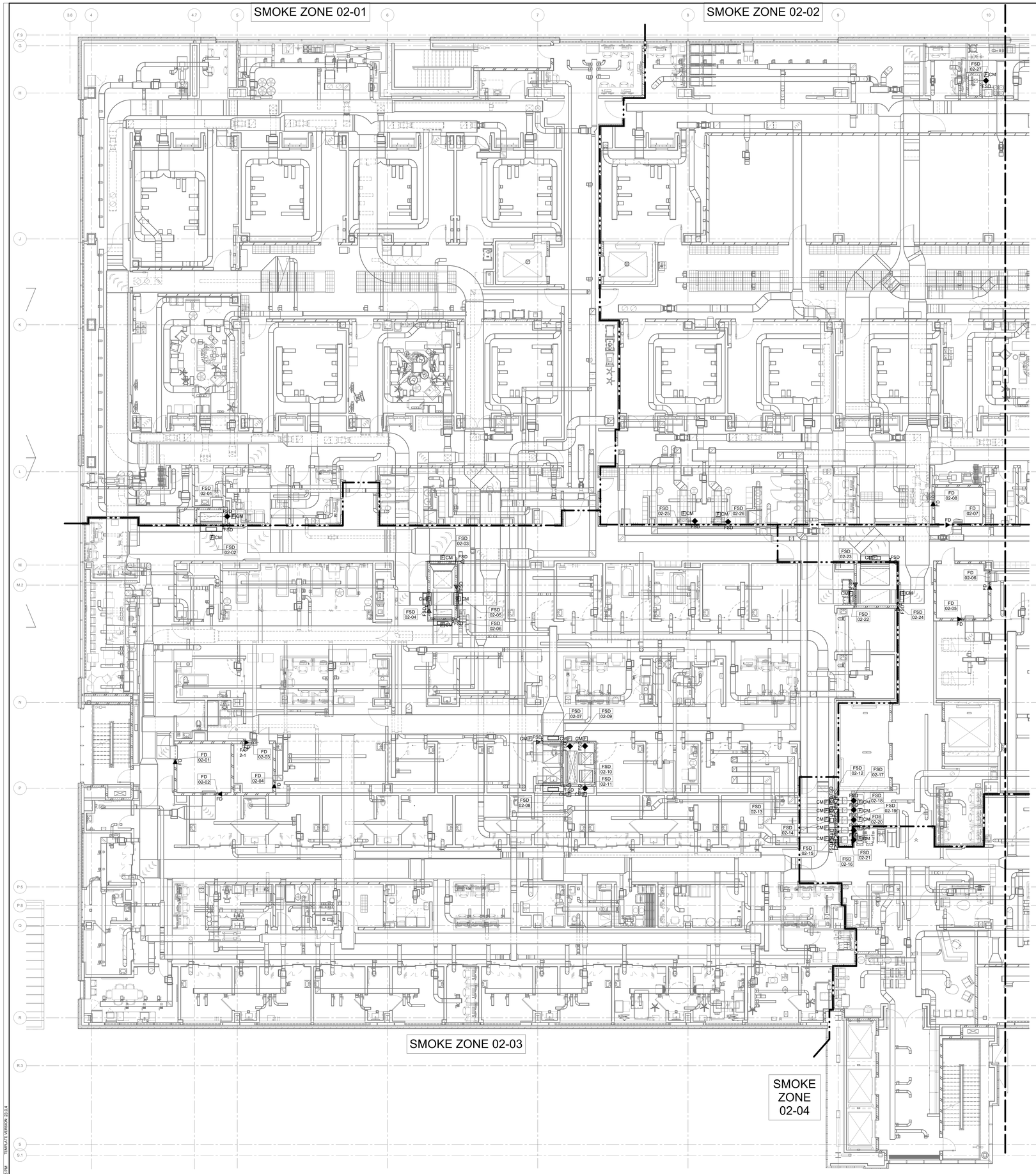

1 DAMPER PLAN - LEVEL 02 - WEST WING
1/8" = 1'-0"

SMOKE BARRIER

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MILWAUKEE, WI 53202

GENERAL CONTRACTOR
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501 SOUTH 8TH STREET
MINNEAPOLIS, MN 55404

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HKS, INC.
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CHICAGO, IL 60603

ASSOCIATE ARCHITECT
BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 0424120-0010
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
2550 UNIVERSITY AVE W SUITE 423S
SAINT PAUL, MN 55114

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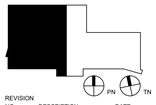

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26146.000

DATE
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ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
DAMPER PLAN - LEVEL 02 - WEST WING

SHEET NO.
ME2.02A

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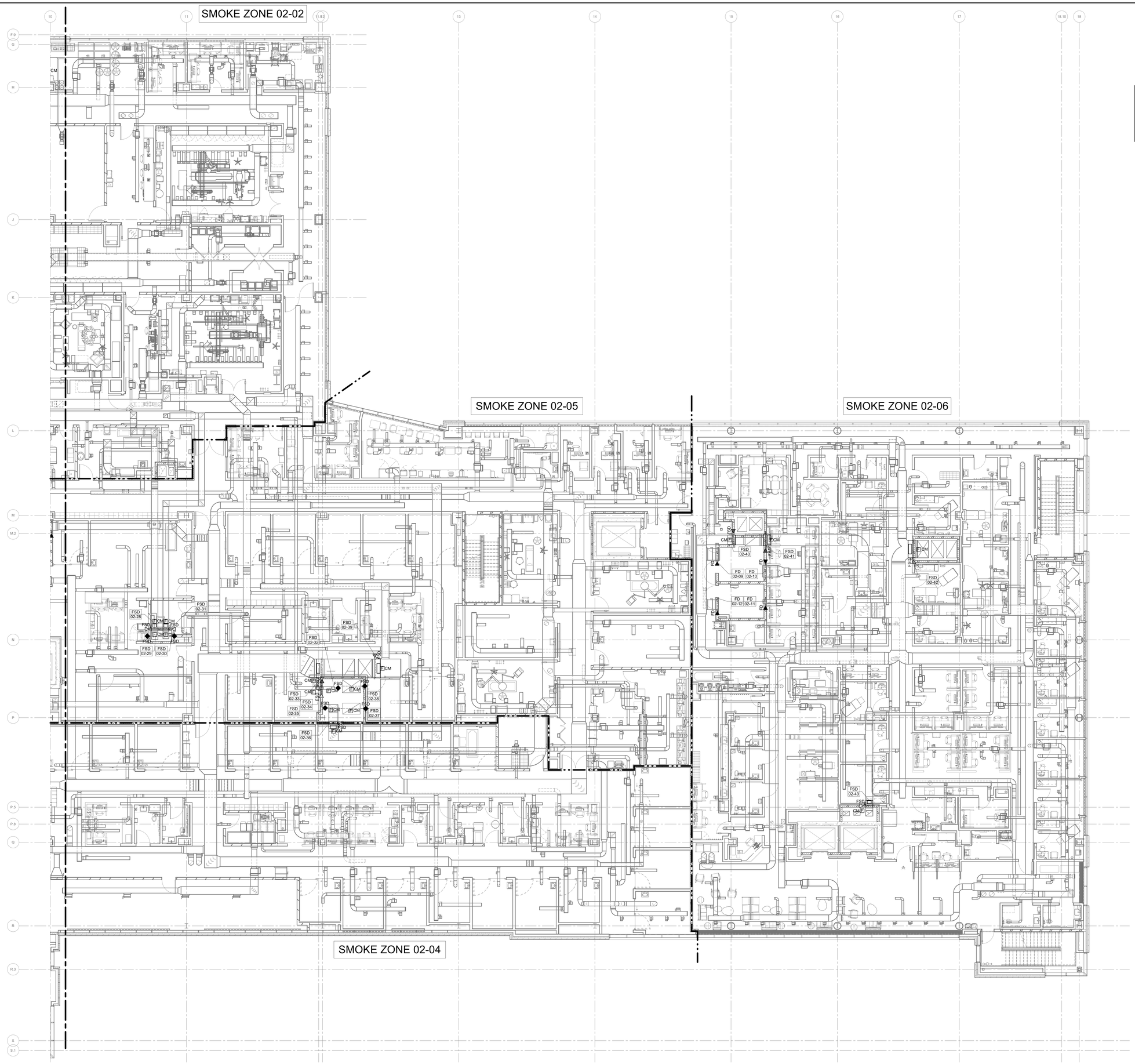

1 DAMPER PLAN - LEVEL 02 - EAST WING
1/8" = 1'-0"

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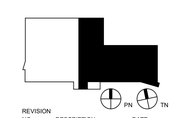

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DATE
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ISSUE
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SHEET TITLE
DAMPER PLAN - LEVEL 02 - EAST WING

SHEET NO.
ME2.02B

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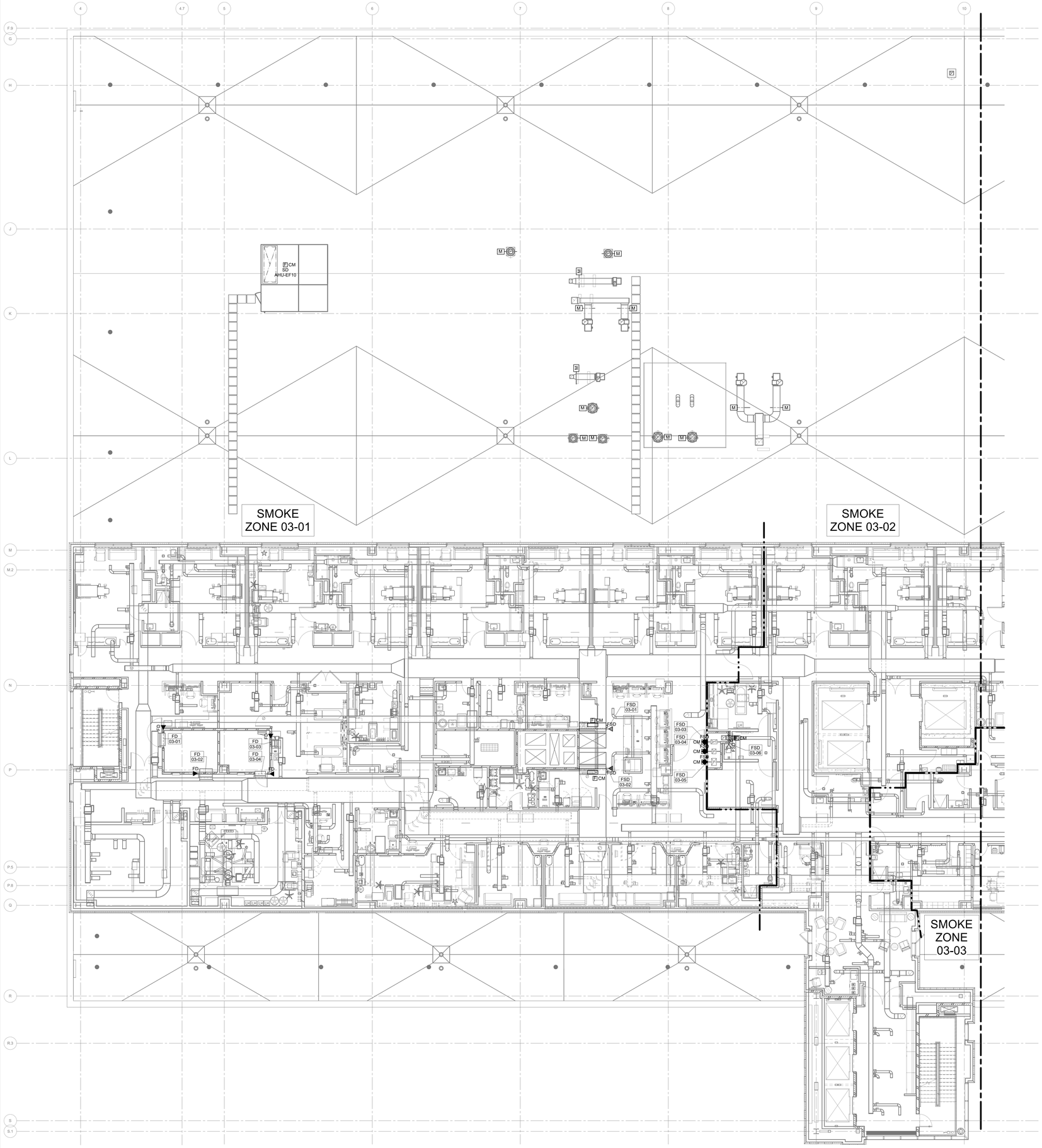

1 DAMPER PLAN - LEVEL 03 - WEST WING
1/8" = 1'-0"

SMOKE BARRIER

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BWBR
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SAINT PAUL, MN 55102

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DUNHAM ASSOCIATES DUNHAM PROJECT # 5424-25-001-00
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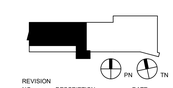
Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
DAMPER PLAN - LEVEL 03 - WEST WING

SHEET NO.
ME2.03A

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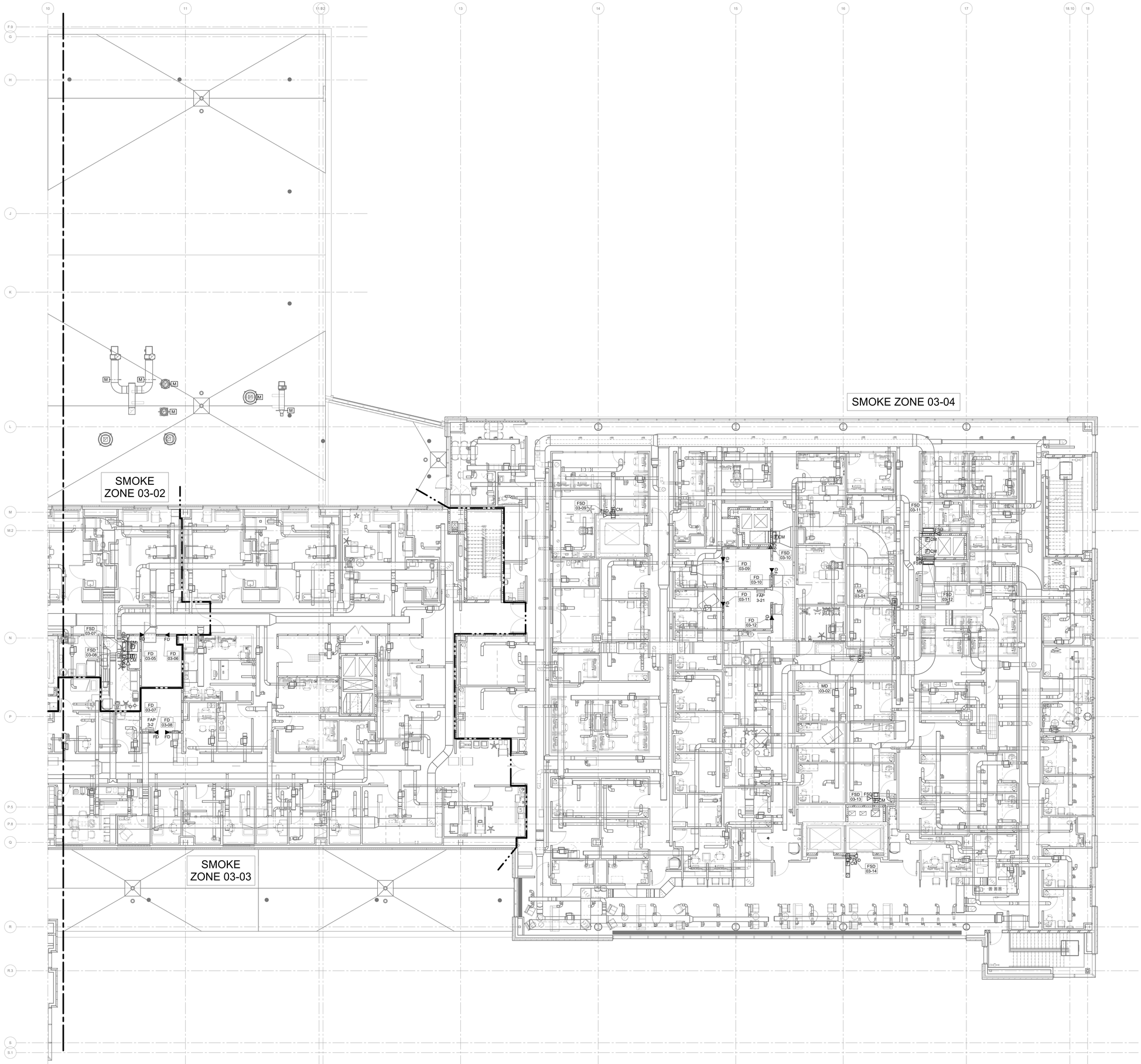

1 DAMPER PLAN - LEVEL 03 - EAST WING
1/8" = 1'-0"

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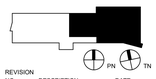

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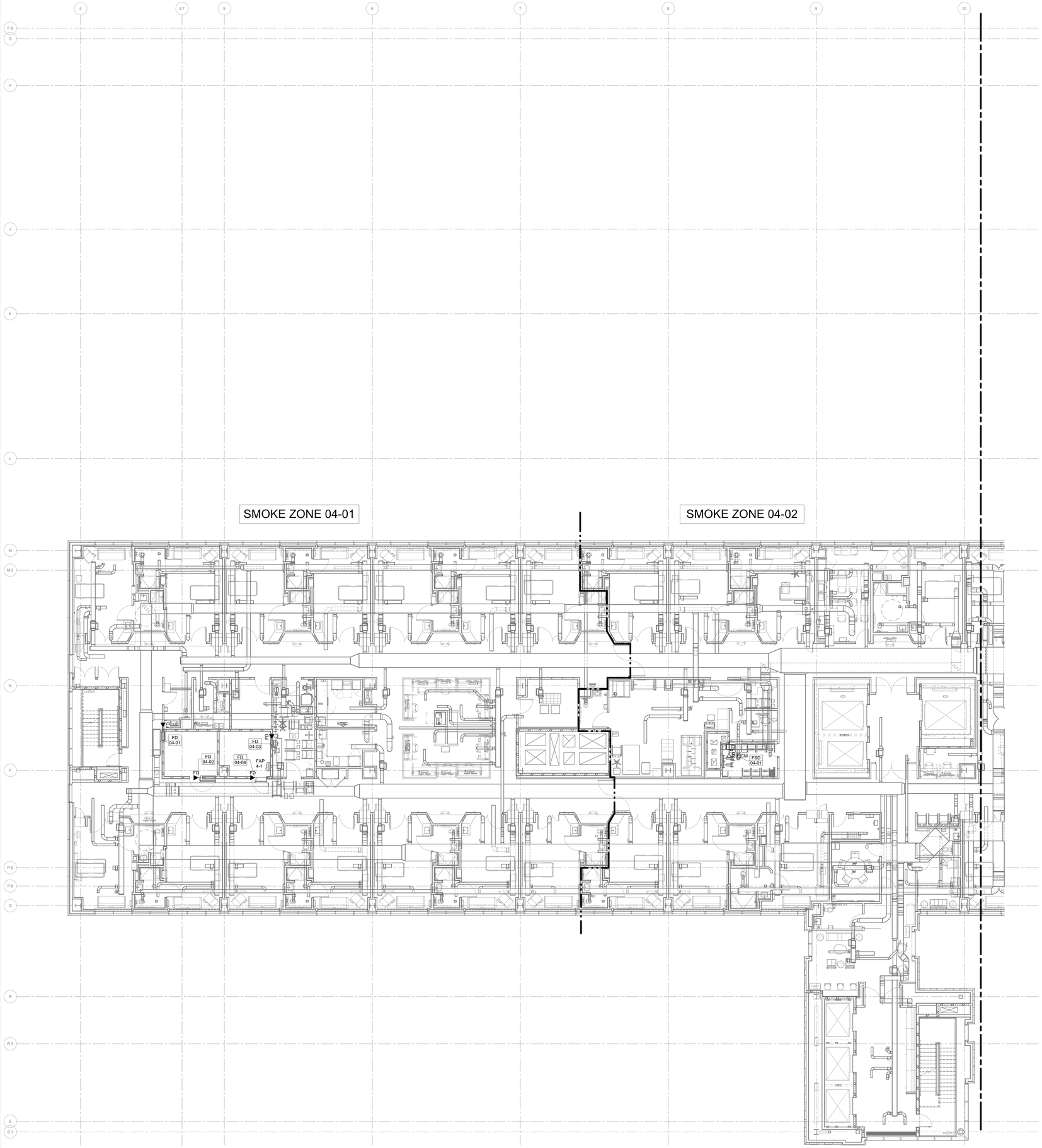

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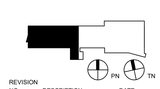

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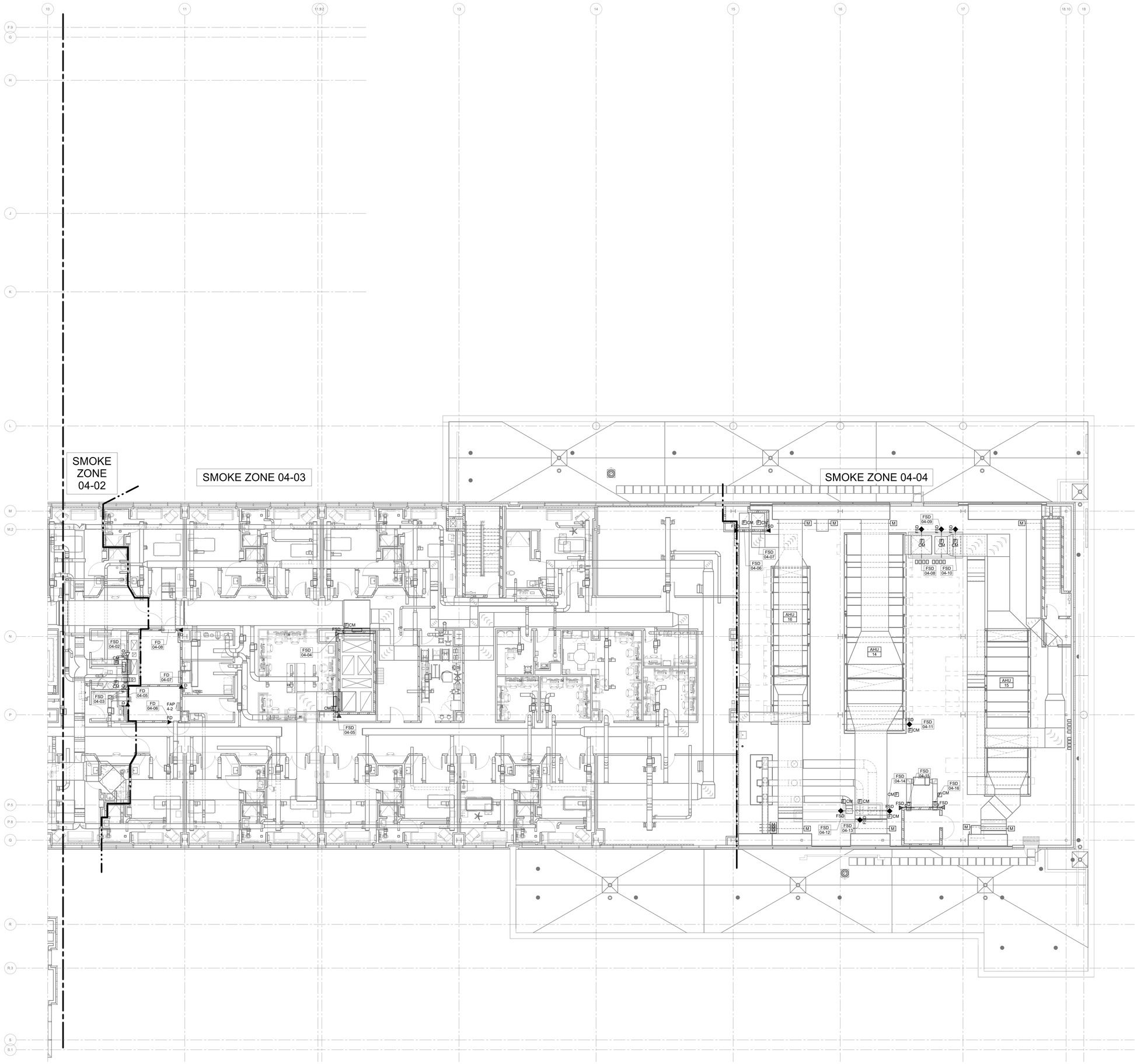

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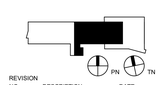

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SHEET TITLE
DAMPER PLAN - LEVEL 04 - EAST WING

SHEET NO.
ME2.04B

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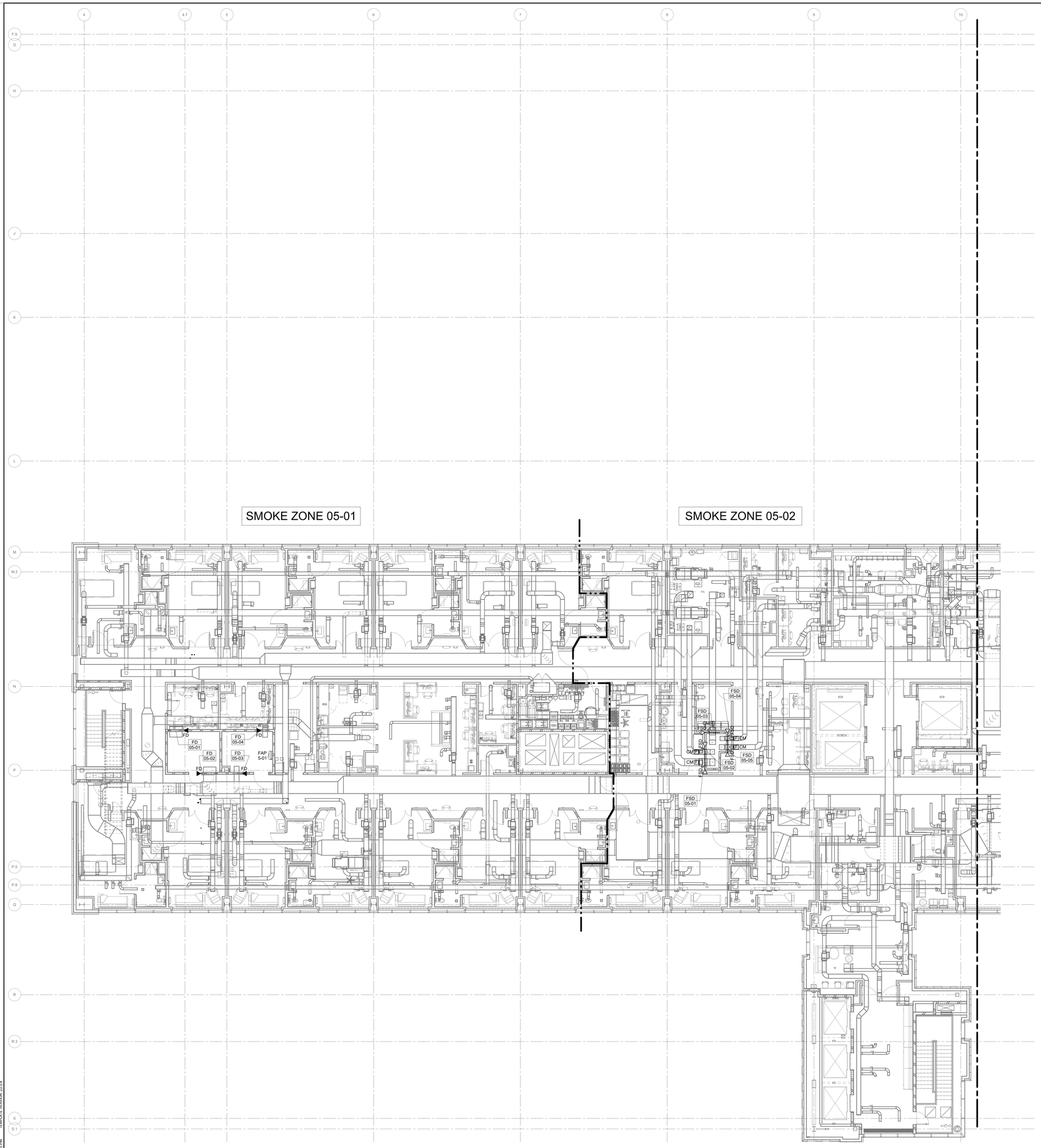

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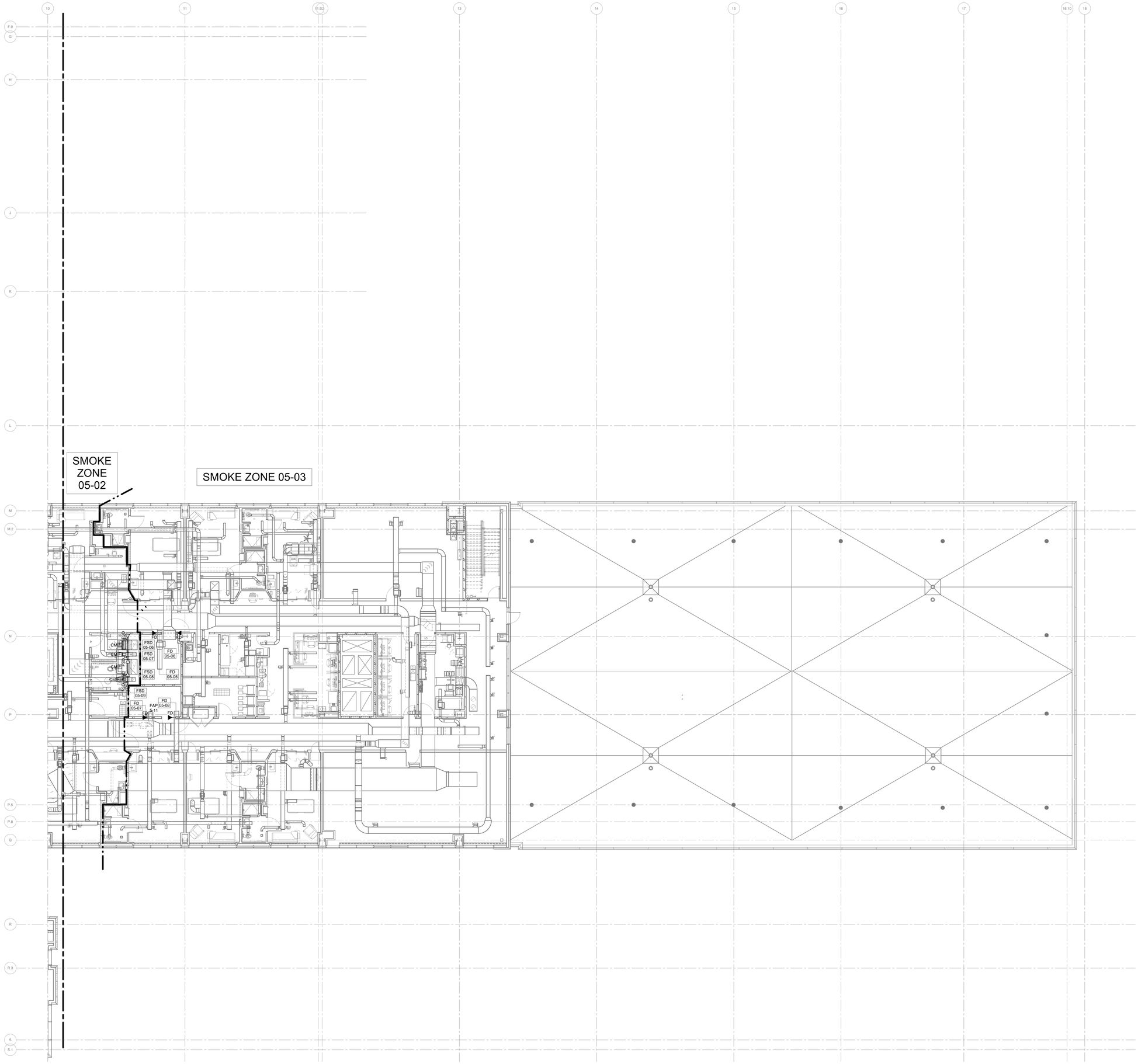

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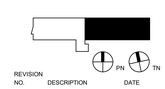

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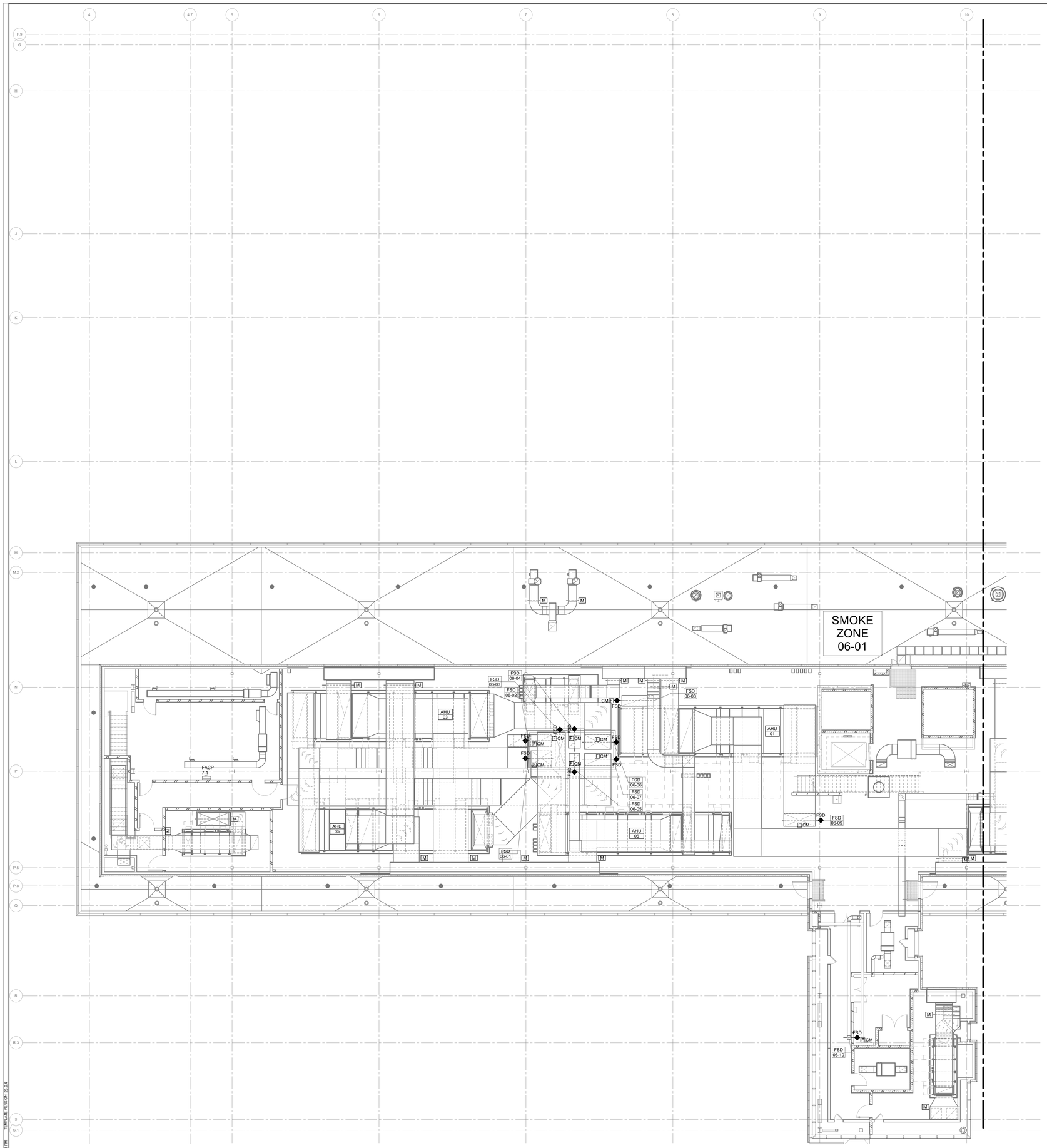

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LAKEVIEW CAMPUS
3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Justin A. Thiner, P.E.
Date 09/22/2025 Reg. No. 48171

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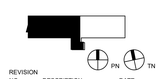
Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
DAMPER PLAN - LEVEL 06 - WEST WING

SHEET NO.
ME2.06A

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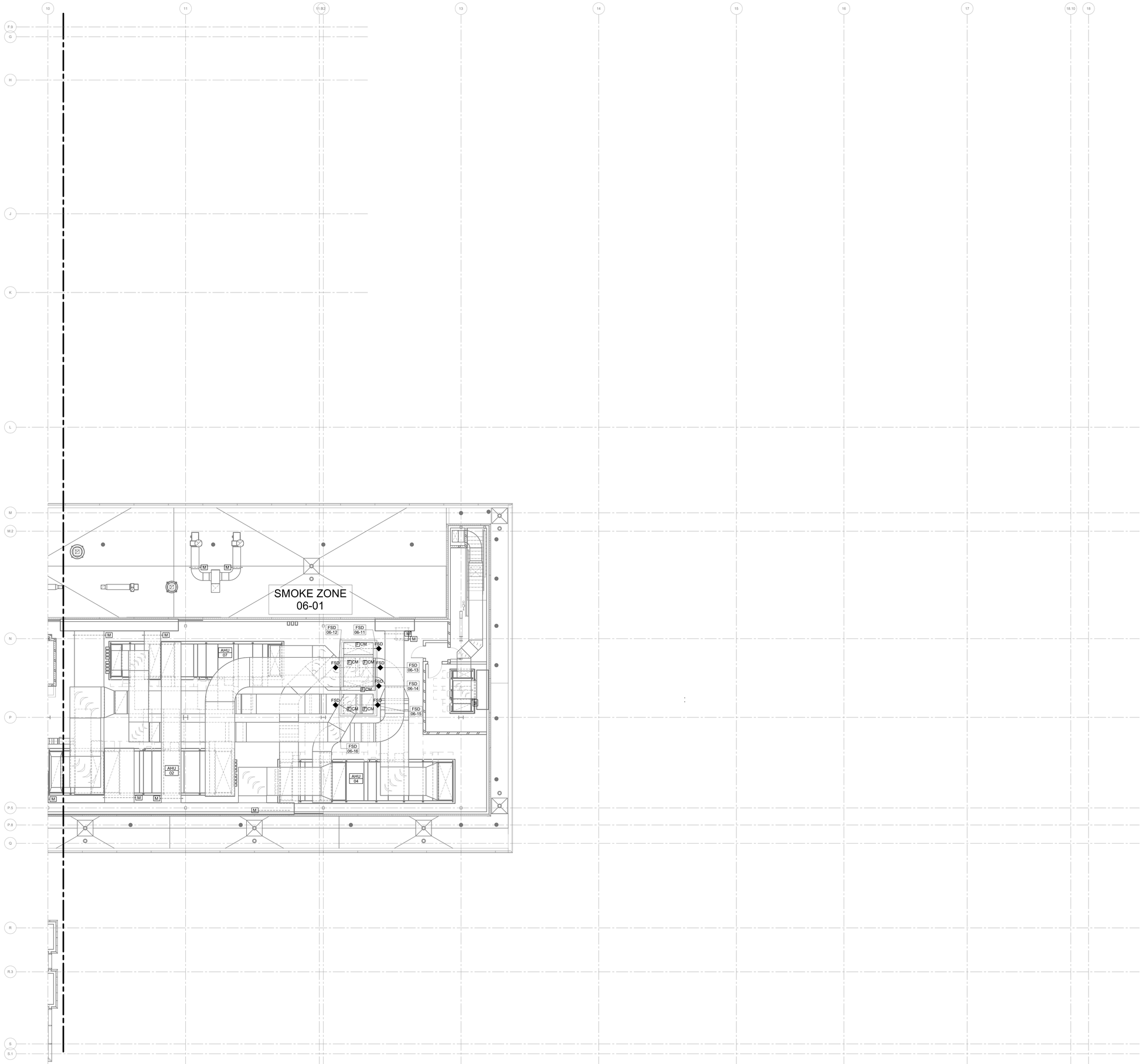

1 DAMPER PLAN - LEVEL 06 - EAST WING
1/8" = 1'-0"

SMOKE BARRIER

SMOKE BARRIERS INDICATED ON THIS PLAN ARE BASED ON ARCHITECTURAL LIFE SAFETY PLAN. REFER TO ARCHITECTURAL LIFE SAFETY PLANS FOR EXACT LOCATIONS.

GENERAL NOTES:

A. PROVIDE CONTROL MODULE AT ALL FIRE/SMOKE DAMPERS. PROGRAM CONTROL MODULE SO DAMPER CLOSES UPON AREA ACTIVATION. COORDINATE PROGRAMMING WITH FIRE ALARM FIRE/SMOKE DAMPER SCHEDULE ON SHEET ME4.00. DAMPERS PROVIDED BY MECHANICAL CONTRACTOR. INSTALL FIRE ALARM CONTROL MODULES SUCH THAT THEY ARE ACCESSIBLE FOR MAINTENANCE. REFER TO ELECTRICAL POWER PLANS FOR CIRCUITING.

HKS
BWBR

OWNER
HEALTHPARTNERS
3000 CURVE CREST BLVD
STILLWATER, MN 55082

OWNER'S REPRESENTATIVE
CONCORD GROUP
1000 NORTH WATER STREET SUITE 1550
MILWAUKEE, WI 53202

GENERAL CONTRACTOR
KRAUS-ANDERSON
501 SOUTH 8TH STREET
MINNEAPOLIS, MN 55404

ARCHITECT OF RECORD
HKS, INC.
125 SOUTH CLARK STREET, SUITE 1100
CHICAGO, IL 60603

ASSOCIATE ARCHITECT
BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 5424-25-001-00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
2550 UNIVERSITY AVE W SUITE 423S
SAINT PAUL, MN 55114

CIVIL ENGINEER/LANDSCAPE
LOUCKS INC.
7200 HEMLOCK LANE, SUITE 300
MAPLE GROVE, MN 55369

MEDICAL EQUIPMENT
IMEG CORP.
12755 HIGHWAY 55, SUITE 100
MINNEAPOLIS, MN 55441

ELEVATOR CONSULTANT
VDA, INC.
120 EAGLE ROCK AVENUE, SUITE 310
EAST HANOVER, NJ 07936

FOOD SERVICE
RIPPE ASSOCIATES
10650 RED CIRCLE DRIVE, SUITE 100
MINNEAPOLIS, MN 55343

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Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

KEY PLAN

PN TN

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SHEET TITLE
DAMPER PLAN - LEVEL 06 - EAST WING

SHEET NO.
ME2.06B

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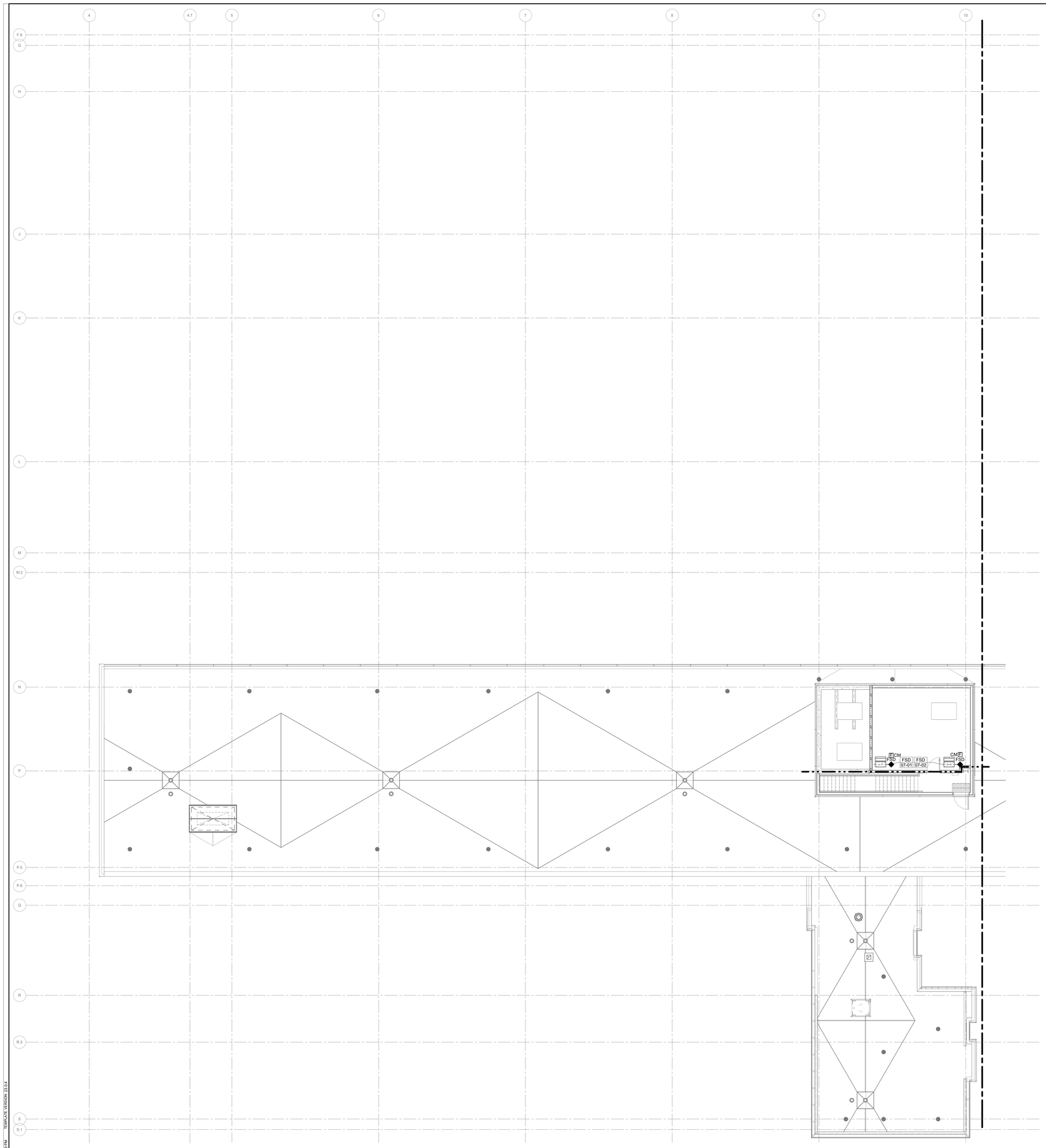

1 DAMPER PLAN - LEVEL 07 - WEST WING
1/8" = 1'-0"

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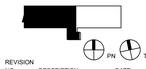

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SHEET NO.
ME2.07A

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FIRE ALARM FIRE/SMOKE DAMPER SCHEDULE

DEVICE CONTROLLED	ROOM NAME	ROOM NUMBER	FAN SYSTEM	SMOKE ZONE 00-01	SMOKE ZONE 00-02	SMOKE ZONE 00-03	SMOKE ZONE 00-04	SMOKE ZONE 00-05	SMOKE ZONE 00-06	SMOKE ZONE 01-01	SMOKE ZONE 01-02	SMOKE ZONE 01-03	SMOKE ZONE 01-04	SMOKE ZONE 01-05	SMOKE ZONE 02-01	SMOKE ZONE 02-02	SMOKE ZONE 02-03	SMOKE ZONE 02-04	SMOKE ZONE 02-05	SMOKE ZONE 02-06	SMOKE ZONE 03-01	SMOKE ZONE 03-02	SMOKE ZONE 03-03	SMOKE ZONE 03-04	SMOKE ZONE 04-01	SMOKE ZONE 04-02	SMOKE ZONE 04-03	SMOKE ZONE 04-04	SMOKE ZONE 05-01	SMOKE ZONE 05-02	SMOKE ZONE 05-03	SMOKE ZONE 06-01	SMOKE PURGE ZONE	NOTES
FSD 00-01	BOILER	H0282	FCU 0-06 OA	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	-
FSD 00-02	CLEAN STOR	H0251B	AHU 13 RA	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 00	-
FSD 00-03	VENDOR STOR	H0251A	AHU 13 SA	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 00	-
FSD 00-04			AHU 13 SA	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 00	-
FSD 00-05	GEN STOR	H0232	AHU 13 RA	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 00	-
FSD 01-01	CORR	A3422	AHU 10 SA	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 10.
FSD 01-02	SHAFT 1	-	AHU 10 SA	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 10. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 10.
FSD 01-03	UNASSIGNED	H1501A	AHU 11 SA	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 11. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 11.
FSD 01-04	SHAFT 2	-	AHU 11 SA	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 11.
FSD 01-05	SHAFT 2	-	AHU 11 RA	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 11.
FSD 01-06	CORR	H1007	AHU 11 RA	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 11. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 11.
FSD 01-07	SHAFT 3-1	--1	AHU 09 SA	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 09. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 09.
FSD 01-08	SHAFT 3-1	--1	AHU 09 RA	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 09. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 09.
FSD 01-09	DROP OFF	H1328A	AHUEF 10	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHUEF 10.
FSD 01-10	SHAFT 4	-	AHU 08 SA	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 08. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 08.
FSD 01-11	SHAFT 4	-	AHU 08 RA	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 08. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 08.
FSD 01-12	CORR	H1009	AHU 07 SA	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	-
FSD 01-13	CORR	H1009	AHU 07 RA	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	-
FSD 01-14			EF 3-15	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 3-15
FSD 01-15			EF 3-15	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 3-15
FSD 01-16	HSK	A1208	EF 3-16	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL CLOSE UPON SMOKE DETECTION IN A1207 UC EXAM ISO. SHUTDOWN EF 3-16
FSD 01-17	CORR	A1001	AHU 15 RA	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	-
FSD 01-18	LINEN & EQ	A1001B	AHU 15 SA	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	-
FSD 01-19	ORTHO TREAT	A1412	AHU 16 RA	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 00	SHUTDOWN AHU 16.
FSD 01-20	ORTHO TREAT	A1412	AHU 16 SA	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 00	SHUTDOWN AHU 16
FSD 01-21	ORTHO EXAM	A1427	AHU 15 RA	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 15.
FSD 01-22	MEDS	A1510	AHU 15 RA	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 15.
FSD 01-23	SW	A1009B	AHU 15 SA	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 15
FSD 01-24	ELEV 12-2	--2	EF 4-03	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 4-03.
FSD 01-25	CONSULT	A1422	EF 4-02	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 4-02.
FSD 02-01			AHUEF 10	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHUEF 10.
FSD 02-02	CORR	H2010	AHUEF 10	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHUEF 10. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHUEF 10.
FSD 02-03	CORR	H2011	AHU 09 SA	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 09.
FSD 02-04			AHU 09 RA	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 09.
FSD 02-05			AHU 09 RA	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 09.
FSD 02-06	PASS	H2302	AHUEF 10	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHUEF 10. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHUEF 10.
FSD 02-07	PASS	H2301	AHU 05 RA	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 05.
FSD 02-08			AHU 05 SA	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 05.
FSD 02-09	PASS	H2301	AHU 06 SA	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 06.
FSD 02-10	PASS	H2301	AHUEF 06	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN AHUEF 06
FSD 02-11			AHU 06 RA	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 06.
FSD 02-12	CORR	H2002	EF 6-03	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 6-03.
FSD 02-13	CORR	H2002	EF 6-04	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 6-04.
FSD 02-14	CORR	H2002	EF 6-02	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 6-02.
FSD 02-15	CORR	H2002	EF 3-10A/B	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 3-10A/B
FSD 02-16	CORR	H2002	EF 3-05A/B	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 3-05A/B
FSD 02-17	COL LACT	H2107	EF 6-03	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 6-03.
FSD 02-18	COL LACT	H2107	EF 6-04	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 6-04.
FSD 02-19	COL LACT	H2107	EF 6-02	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 6-02.
FSD 02-20			EF 3-10A/B	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 3-10A/B
FSD 02-21	WC	H2001A	EF 3-05A/B	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 3-05A/B
FSD 02-22	EQ	H2300A	AHU 08 RA	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 08.
FSD 02-23	Room	A3423	AHU 08 SA	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 08.
FSD 02-24	ELEV LOBBY	H2106	AHU 08 RA	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 08.
FSD 02-25	WOMEN LOCKERS	H2438	EF 3-18	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 3-18
FSD 02-26	WOMEN LOCKERS	H2438	EF 3-19	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 3-19
FSD 02-27	EQ STOR	A1009E	FUTURE EF 3-01	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	-
FSD 02-28			EF 3-13A/B	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 3-13
FSD 02-29	SHAFT 16	16	EF 3-13A/B	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 3-13
FSD 02-30	SHAFT 16	16	EF 3-12	No	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 3-12
FSD 02-31	SOILED WRKRM	H2501	EF 3-12	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 3-12
FSD 02-32	SHAFT 9-1	--1	EF 3-16	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL CLOSE UPON SMOKE DETECTION IN A1207 UC EXAM ISO. SHUTDOWN EF 3-16
FSD 02-33	PREP / REC	H2514	AHU 04 RA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 04.
FSD 02-34	PREP / REC	H2514	EF 3-16	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL CLOSE UPON SMOKE DETECTION IN A1207 UC EXAM ISO. SHUTDOWN EF 3-16
FSD 02-35	SHAFT 9-1	--1	EF 3-15	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 3-15
FSD 02-36	PREP / REC	H2614	EF 3-15	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No		SHUTDOWN EF 3-15
FSD 02-37	SHAFT 9-1	--1	AHU 07 RA	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 07.
FSD 02-38	SHAFT 9-1	--1	AHU 07 SA	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 07.
FSD 02-39	PASS	H2510	AHU 04 SA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 04.
FSD 02-40	CLEAN SUPP	A2005A	AHU 14 RA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	-
FSD 02-41	OFFICE SHARED	A2221	AHU 14 RA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	-
FSD 02-42	SHAFT 7-2	--2	AHU 14 SA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	-
FSD 02-43			EF 4-01	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	-	-
FSD 03-01	TEAM WRKRM	H3505	AHU 03 SA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	LEVEL 03	SHUTDOWN AHU 03.
FSD 03-02	MEDS	H3208	AHU 03 RA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No	No	No	No	No	No	No	No	LEVEL 03	SHUTDOWN AHU 03.
FSD 03-03	CORR	H3014	EF 6-03	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 6-03.
FSD 03-04	CORR	H3013	EF 6-04	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 6-04.
FSD 03-05	CORR	H3013	EF 6-02	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 6-02.
FSD 03-06	PAT TLT	H3502A	EF 6-05	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL CLOSE UPON SMOKE DETECTION IN H3204 ISO NURSERY. SHUTDOWN EF 6-05.
FSD 03-07	SHAFT 13-1	--1	EF 6-11	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 6-11.
FSD 03-08	SHAFT 13-1	--1	EF 6-10	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL CLOSE UPON SMOKE DETECTION IN H3417 ADA ISO LDRP. SHUTDOWN EF 6-10.
FSD 03-09	OFFICE SHARED	A3216	EF 4-05	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL SHUT UPON SMOKE DETECTION IN ELEVATOR SHAFT ELEV 10. SHUTDOWN EF 4-05.
FSD 03-10	CORR	H3006	AHU 14 RA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	-
FSD 03-11	SHAFT 7-3	--3	AHU 14 SA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	LEVEL 03	-
FSD 03-12	SHAFT 7-3	--3	AHU 14 SA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	LEVEL 03	-
FSD 03-13	OB EXAM	A3322	EF 4-01	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	-	-
FSD 03-14	WAITING	A3000	EF 4-04	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL SHUT UPON SMOKE DETECTION IN ELEVATOR SHAFT ELEV 11/12. SHUTDOWN EF 4-04.
FSD 04-01	DME	H4301	EF 6-06	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL CLOSE UPON SMOKE DETECTION IN H4221 ADA ISO MED SURG. SHUTDOWN EF 6-06.
FSD 04-02	LOCKERS	H4316	EF 6-09	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No	No	No	No	No	-	SHUTDOWN EF 6-09.
FSD 04-03	COL LACT	H4315	EF 6-08	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL CLOSE UPON SMOKE DETECTION IN H4222 ISO MED SURG. SHUTDOWN EF 6-08.
FSD 04-04	CORR	H4006	AHU 02 SA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No	No	No	No	No	LEVEL 04	SHUTDOWN AHU 02.
FSD 04-05	COLLAB HUB	H4322	AHU 02 RA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No	No	No	No	No	LEVEL 04	SHUTDOWN AHU 02.
FSD 04-06	SHAFT 5-2	--2	AHU 16 RA	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 00	SHUTDOWN AHU 16. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 16.
FSD 04-07	SHAFT 5-2	--2	AHU 16 SA	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 00	SHUTDOWN AHU 16. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 16.
FSD 04-08			AHU 14 SA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02 & LEVEL 03	SHUTDOWN AHU 14. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 14.
FSD 04-09			AHU 15 SA	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 15. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 15.
FSD 04-10			AHU 15 RA	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 15. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 15.
FSD 04-11	MECH	A4200	AHU 14 RA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02 & LEVEL 03	SHUTDOWN AHU 14. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 14.
FSD 04-12	MECH	A4200	EF 4-03	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 4-03. DAMPER SHALL CLOSE UPON SHUTDOWN OF EF 4-03.
FSD 04-13	MECH	A4200	EF 4-02	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 4-02. DAMPER SHALL CLOSE UPON SHUTDOWN OF EF 4-02.
FSD 04-14	MECH	A4200	EF 4-01	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 4-01. DAMPER SHALL CLOSE UPON SHUTDOWN OF EF 4-01.
FSD 04-15	MECH	A4200	FCU 4-01	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL SHUT UPON SMOKE DETECTION IN CTRL ELEV 11&12. SHUTDOWN FCU 4-01.
FSD 04-16	MECH	A4200	FCU 4-01	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL SHUT UPON SMOKE DETECTION IN CTRL ELEV 11&12. SHUTDOWN FCU 4-01.
FSD 05-01	SOILED HOLD	H5303	EF 6-02	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 6-02.
FSD 05-02	SOILED HOLD	H5303	EF 6-04	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 6-04.
FSD 05-03	MACHINE HOLD	H5302	EF 6-03	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 6-03.
FSD 05-04	CORR	H5012	EF 6-05	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL CLOSE UPON SMOKE DETECTION IN H3204 ISO NURSERY. SHUTDOWN EF 6-05.
FSD 05-05	CORR	H5012	EF 6-06	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL CLOSE UPON SMOKE DETECTION IN H4221 ADA ISO MED SURG. SHUTDOWN EF 6-06.
FSD 05-06	COLL TLT	H5403	EF 6-11	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN EF 6-11.
FSD 05-07			EF 6-10	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL CLOSE UPON SMOKE DETECTION IN H3417 ADA ISO LDRP. SHUTDOWN EF 6-10.
FSD 05-08			EF 6-09	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No	No	No	No	No	-	SHUTDOWN EF 6-09.
FSD 05-09	COLL TLT	H5402	EF 6-08	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL CLOSE UPON SMOKE DETECTION IN H4222 ISO MED SURG. SHUTDOWN EF 6-08.
FSD 06-01			AHU 05 SA	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 05. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 05.
FSD 06-02			AHU 05 RA	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 05. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 05.
FSD 06-03			AHU 06 SA	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 06. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 06.
FSD 06-04			AHUEF 06	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	SHUTDOWN AHUEF 06. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHUEF 06.
FSD 06-05			AHU 06 RA	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 06. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 06.
FSD 06-06			AHU 03 SA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	LEVEL 03	SHUTDOWN AHU 03. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 03.
FSD 06-07			AHU 03 RA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	LEVEL 03	SHUTDOWN AHU 03. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 03.
FSD 06-08	MECH	H6105	AHU 01 RA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No	LEVEL 05	SHUTDOWN AHU 01. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 01.
FSD 06-09	MECH	H6105	AHU 01 SA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No	LEVEL 05	SHUTDOWN AHU 01. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 01.
FSD 06-10	STORAGE	H6191	EF 7-01	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	-	DAMPER SHALL SHUT UPON SMOKE DETECTION IN ELEVATOR SHAFT ELEV 1/2/3. SHUTDOWN EF 7-01.
FSD 06-11			AHU 02 SA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No	No	No	No	No	LEVEL 04	SHUTDOWN AHU 02. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 02.
FSD 06-12			AHU 04 RA	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 04. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 04.
FSD 06-13			AHU 04 SA	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 02	SHUTDOWN AHU 04. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 04.
FSD 06-14			AHU 07 SA	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	LEVEL 01	SHUTDOWN AHU 07. DAMPER SHALL CLOSE UPON SHUTDOWN OF AHU 07.
FSD 06-15			AHU 07 RA	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No

AIR HANDLING UNIT SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	FACE & BYPASS DAMPERS (YES/NO)	MIXING BOX (YES/NO)	MINIMUM OUTDOOR AIR CFM	COOLING COIL	HEATING COIL	HEAT RECOVERY COIL	AIR PRE-FILTER	AIR FINAL-FILTER	HUMIDIFIER	AIR BLENDER	SUPPLY FAN	RETURN FAN	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
AHU 01	LEVEL05 - ICU/PROGRESSIVE CARE	NO	YES	11800	AHUCC 01	AHUHC 01	-	AHUPF 01	AHUFF 01	AHUH 01	AHUAB 01	AHUS 01	AHUR 01	DAIKIN	CAH086GDHM	-
AHU 02	LEVEL 04 - MED SURG	NO	YES	8000	AHUCC 02	AHUHC 02	-	AHUPF 02	AHUFF 02	AHUH 02	AHUAB 02	AHUS 02	AHUR 02	DAIKIN	CAH086GDHM	-
AHU 03	LEVEL 03 - LDRP	NO	YES	7000	AHUCC 03	AHUHC 03	-	AHUPF 03	AHUFF 03	AHUH 03	AHUAB 03	AHUS 03	AHUR 03	DAIKIN	CAH086GDHM	-
AHU 04	PREP/RECOVERY AND OBSERVATION	NO	YES	5250	AHUCC 04	AHUHC 04	-	AHUPF 04	AHUFF 04	AHUH 04	AHUAB 04	AHUS 04	AHUR 04	DAIKIN	CAH070GDHM	-
AHU 05	ASC PREP/RECOVERY	NO	YES	4000	AHUCC 05	AHUHC 05	-	AHUPF 05	AHUFF 05	AHUH 05	AHUAB 05	AHUS 05	AHUR 05	DAIKIN	CAH070GDHM	-
AHU 06	LAB AND PHARMACY	NO	YES	12100	AHUCC 06	AHUHC 06	AHUHRC 06	AHUPF 06	AHUFF 06	AHUH 06	AHUAB 06	AHUS 06	AHUR 06	DAIKIN	CAH050GDHM	-
AHU 07	MAIN ENTRY	NO	YES	5000	AHUCC 07	AHUHC 07	-	AHUPF 07	AHUFF 07	AHUH 07	AHUAB 07	AHUS 07	AHUR 07	DAIKIN	CAH057GDHM	-
AHU 08	HOSPITAL OPERATING ROOMS	NO	YES	7000	AHUCC 08	AHUHC 08	-	AHUPF 08	AHUFF 08	AHUH 08	AHUAB 08	AHUS 08	AHUR 08	VENTROL	CUSTOM	-
AHU 09	ASC OPERATING ROOMS	NO	YES	5500	AHUCC 09	AHUHC 09	-	AHUPF 09	AHUFF 09	AHUH 09	AHUAB 09	AHUS 09	AHUR 09	VENTROL	CUSTOM	-
AHU 10	EMERGENCY DEPARTMENT	NO	YES	24000	AHUCC 10	AHUHC 10	AHUHRC 10	AHUPF 10	AHUFF 10	AHUH 10	-	AHUS 10	-	VENTROL	CUSTOM	-
AHU 11	IMAGING	NO	YES	4100	AHUCC 11	AHUHC 11	-	AHUPF 11	AHUFF 11	AHUH 11	AHUAB 11	AHUS 11	AHUR 11	DAIKIN	CAH071GVHM	-
AHU 12	KITCHEN AND ADMIN OFFICES	NO	YES	14500	AHUCC 12	AHUHC 12	-	AHUPF 12	AHUFF 12	AHUH 12	AHUAB 12	AHUS 12	AHUR 12	DAIKIN	CAH066GVHM	-
AHU 13	STERILE PROCESSING AND GARDEN LEVEL SUPPORT	NO	YES	12000	AHUCC 13	AHUHC 13	AHUHRC 13	AHUPF 13	AHUFF 13	AHUH 13	AHUAB 13	AHUS 13	AHUR 13	VENTROL	CUSTOM	-
AHU 14	LEVEL 02 AND 03 CLINIC	NO	YES	6250	AHUCC 14	AHUHC 14	-	AHUPF 14	AHUFF 14	AHUH 14	AHUAB 14	AHUS 14	AHUR 14	DAIKIN	CAH097GDHM	-
AHU 15	LEVEL 01 CLINIC	NO	YES	4000	AHUCC 15	AHUHC 15	-	AHUPF 15	AHUFF 15	AHUH 15	AHUAB 15	AHUS 15	AHUR 15	DAIKIN	CAH061GDHM	-
AHU 16	GARDEN LEVEL CLINIC	NO	YES	2500	AHUCC 16	AHUHC 16	-	AHUPF 16	AHUFF 16	AHUH 16	AHUAB 16	AHUS 16	AHUR 16	DAIKIN	CAH040GDHM	-
AHU 17	STAIR A STAIR PRESSURIZATION AND CONDITIONING	NO	YES	7500	AHUCC 17	AHUHC 17	-	AHUPF 17	-	-	-	AHUS 17	-	DAIKIN	CAH018GDCM	-
AHU 18	STAIR D STAIR PRESSURIZATION AND CONDITIONING	NO	YES	7000	AHUCC 18	AHUHC 18	-	AHUPF 18	-	-	-	AHUS 18	-	DAIKIN	CAH016GDCM	-
AHU 19	STAIR C STAIR PRESSURIZATION	NO	YES	75000	-	AHUHC 19	-	AHUPF 19	-	-	-	AHUS 19	-	DAIKIN	CAH016GHCM	-
AHU 20	CENTRAL UTILITY PLAN MAKE-UP AIR	NO	YES	2500	AHUCC 20	AHUHC 20	-	AHUPF 20	-	-	-	AHUS 20	-	DAIKIN	OAH014GDCM	-
AHU EF-06	LAB AND PHARMACY	NO	NO	-	-	-	AHUHRC EF-06	AHUPF EF-06	-	-	-	-	AHUR EF-06	DAIKIN	CAH026GDHM	-
AHU EF-10	EMERGENCY DEPARTMENT	NO	NO	-	-	-	AHUHRC EF-10	AHUPF EF-10	-	-	-	-	AHUR EF-10	VENTROL	CUSTOM	-
AHU EF-13	STERILE PROCESSING AND GARDEN LEVEL SUPPORT	NO	NO	-	-	-	AHUHRC EF-13	AHUPF EF-13	-	-	-	-	AHUR EF-13	VENTROL	CUSTOM	-

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

AIR HANDLING UNIT - SUPPLY FAN SCHEDULE

MECHANICAL

EQUIPMENT TAG	AHU SERVED	NUMBER OF FANS	TYPE	CLASS	CFM PER FAN	TOTAL CFM	ESP (IN W.C.)	TOTAL SP (IN W.C.)	WHEEL DIAMETER (IN)	VFD (YES/NO)	FAN RPM	BHP	DRIVE TYPE (BELT/DIRECT)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
AHUS 01	AHU 01	4	PLENUM	II	10000	40000	2.5	5.88	24.5	YES	1922	13.17	DIRECT	DAIKIN	AF 24 DD PLENUM 9BL	1
AHUS 02	AHU 02	4	PLENUM	II	10000	40000	2.5	5.88	24.5	YES	1922	13.17	DIRECT	DAIKIN	AF 24 DD PLENUM 9BL	1
AHUS 03	AHU 03	4	PLENUM	II	10000	40000	2.5	5.88	24.5	YES	1922	13.17	DIRECT	DAIKIN	AF 24 DD PLENUM 9BL	1
AHUS 04	AHU 04	4	PLENUM	II	8000	32000	2.5	5.82	20	YES	2556	10.81	DIRECT	DAIKIN	AF 20 DD PLENUM 9BL	4
AHUS 05	AHU 05	4	PLENUM	II	8000	32000	2.5	5.82	20	YES	2556	10.81	DIRECT	DAIKIN	AF 20 DD PLENUM 9BL	4
AHUS 06	AHU 06	4	PLENUM	II	5500	22000	2.5	6.48	18.25	YES	2686	8.28	DIRECT	DAIKIN	AF 18 DD PLENUM 12BL	1
AHUS 07	AHU 07	4	PLENUM	II	6500	26000	2.5	5.64	20	YES	2324	8.3	DIRECT	DAIKIN	AF 20 DD PLENUM 9BL	1
AHUS 08	AHU 08	8	PLENUM	II	6250	50000	2.5	5.59	22	YES	2108	7.37	DIRECT	NORTEK	22-80-213T-44x44x32-B4	1
AHUS 09	AHU 09	4	PLENUM	II	8000	32000	2.5	5.11	22	YES	2148	9.16	DIRECT	NORTEK	22-95-254T-44x44x34-B2	1
AHUS 10	AHU 10	4	PLENUM	II	6000	24000	2.5	5.64	22	YES	2117	7.43	DIRECT	NORTEK	22-80-213T-44x42x34-B2	1
AHUS 11	AHU 11	4	PLENUM	II	8250	33000	2.5	5.94	22.25	YES	2153	11.41	DIRECT	DAIKIN	AF 22 DD PLENUM 12BL	2
AHUS 12	AHU 12	4	PLENUM	II	7500	30000	2.5	6.05	20	YES	2510	10.39	DIRECT	DAIKIN	AF 20 DD PLENUM 9BL	2
AHUS 13	AHU 13	6	PLENUM	II	5333	32000	2.5	5.6	22	YES	2083	6.61	DIRECT	NORTEK	22-75-213T-44x42x30-B3	1
AHUS 14	AHU 14	4	PLENUM	II	11250	45000	2.5	5.82	24.5	YES	2006	14.9	DIRECT	DAIKIN	AF 24 DD PLENUM 9BL	2
AHUS 15	AHU 15	4	PLENUM	II	6750	27000	2.5	5.55	20	YES	2345	8.51	DIRECT	DAIKIN	AF 20 DD PLENUM 9BL	2
AHUS 16	AHU 16	4	PLENUM	II	4500	18000	2.5	5.56	15.75	YES	3139	6.03	DIRECT	DAIKIN	AF 16 DD PLENUM 9BL	2
AHUS 17	AHU 17	3	PLENUM	-	2500	7500	2.0	4.4	13.98	NO	3026	2.73	DIRECT	DAIKIN	EC355 2x2 (3 FANS)	3,4
AHUS 18	AHU 18	3	PLENUM	-	2333	7000	2.0	4.31	13.98	NO	2936	2.47	DIRECT	DAIKIN	EC355 2x2 (3 FANS)	2,3
AHUS 19	AHU 19	3	PLENUM	-	2500	7500	2.0	3.77	13.98	NO	2882	2.37	DIRECT	DAIKIN	EC355 2x2 (3 FANS)	2,3
AHUS 20	AHU 20	2	PLENUM	-	2500	5000	1.0	2.84	17.71	NO	1720	1.73	DIRECT	DAIKIN	EC450 2x1 (2 FANS)	2,3

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

1. FAN ARRAY SHALL HAVE (N+1) REDUNDANCY.
2. FAN ARRAY SHALL HAVE A MINIMUM OF 90% REDUNDANCY.
3. EC MOTORS.
4. FAN ARRAY SHALL HAVE A MINIMUM OF 88% REDUNDANCY.

ELECTRICAL

EQUIPMENT TAG	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	CONTROLLER TYPE	CONTROLLER FURNISHED BY/ INSTALLED BY	CONTROLLER LOCATION	CONTROLLER CTRL WIRE BY	CONTROLLER AMPS/TYPE	DISCONNECT AT MOTOR FUSE SIZE (AMPS)	DISCONNECT AT MOTOR NEMA TYPE	DISCONNECT AT MOTOR FURNISHED BY/ INSTALLED BY	DISCONNECT AT MOTOR LOCATION	PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	ELECTRICAL NOTES
AHUS 01A	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU01	2,4,6	3/4"C, 3#8 + #10 G	1,3
AHUS 01B	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU01	8,10,12	3/4"C, 3#8 + #10 G	1,3
AHUS 01C	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU01	14,16,18	3/4"C, 3#8 + #10 G	1,3
AHUS 01D	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU01	20,22,24	3/4"C, 3#8 + #10 G	1,3
AHUS 02A	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU02	1,3,5	3/4"C, 3#8 + #10 G	1,3
AHUS 02B	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU02	7,9,11	3/4"C, 3#8 + #10 G	1,3
AHUS 02C	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU02	13,15,17	3/4"C, 3#8 + #10 G	1,3
AHUS 02D	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU02	19,21,23	3/4"C, 3#8 + #10 G	1,3
AHUS 03A	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU03	2,4,6	3/4"C, 3#8 + #10 G	1,3
AHUS 03B	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU03	8,10,12	3/4"C, 3#8 + #10 G	1,3
AHUS 03C	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU03	14,16,18	3/4"C, 3#8 + #10 G	1,3
AHUS 03D	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU03	20,22,24	3/4"C, 3#8 + #10 G	1,3
AHUS 04A	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU04	1,3,5	3/4"C, 3#10 + #10 G	1,3
AHUS 04B	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU04	7,9,11	3/4"C, 3#10 + #10 G	1,3
AHUS 04C	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU04	13,15,17	3/4"C, 3#10 + #10 G	1,3
AHUS 04D	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU04	19,21,23	3/4"C, 3#10 + #10 G	1,3
AHUS 05A	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU05	2,4,6	3/4"C, 3#10 + #10 G	1,3
AHUS 05B	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU05	8,10,12	3/4"C, 3#10 + #10 G	1,3
AHUS 05C	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU05	14,16,18	3/4"C, 3#10 + #10 G	1,3
AHUS 05D	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU05	20,22,24	3/4"C, 3#10 + #10 G	1,3
AHUS 06A	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU06	2,4,6	3/4"C, 3#10 + #10 G	1,3
AHUS 06B	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU06	8,10,12	3/4"C, 3#10 + #10 G	1,3
AHUS 06C	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU06	14,16,18	3/4"C, 3#10 + #10 G	1,3
AHUS 06D	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU06	20,22,24	3/4"C, 3#10 + #10 G	1,3
AHUS 07A	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU07	1,3,5	3/4"C, 3#10 + #10 G	1,3
AHUS 07B	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU07	7,9,11	3/4"C, 3#10 + #10 G	1,3
AHUS 07C	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU07	13,15,17	3/4"C, 3#10 + #10 G	1,3
AHUS 07D	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU07	19,21,23	3/4"C, 3#10 + #10 G	1,3
AHUS 08A	9HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU08	2,4,6	3/4"C, 3#12 + #12 G	1,3
AHUS 08B	9HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU08	8,10,12	3/4"C, 3#12 + #12 G	1,3
AHUS 08C	9HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU08	14,16,18	3/4"C, 3#12 + #12 G	1,3
AHUS 08D	9HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU08	20,22,24	3/4"C, 3#12 + #12 G	1,3
AHUS 08E	9HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU08	26,28,30	3/4"C, 3#12 + #12 G	1,3
AHUS 08F	9HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU08	32,34,36	3/4"C, 3#12 + #12 G	1,3
AHUS 08G	9HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU08	38,40,42	3/4"C, 3#12 + #12 G	1,3
AHUS 08H	9HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU08	44,46,48	3/4"C, 3#12 + #12 G	1,3
AHUS 09A	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU09	2,4,6	3/4"C, 3#10 + #10 G	1,3
AHUS 09B	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU09	8,10,12	3/4"C, 3#10 + #10 G	1,3
AHUS 09C	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU09	14,16,18	3/4"C, 3#10 + #10 G	1,3
AHUS 09D	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU09	20,22,24	3/4"C, 3#10 + #10 G	1,3
AHUS 10A	11HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU10	1,3,5	3/4"C, 3#12 + #12 G	1,3
AHUS 10B	11HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU10	7,9,11	3/4"C, 3#12 + #12 G	1,3
AHUS 10C	11HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU10	2,4,6	3/4"C, 3#12 + #12 G	1,3
AHUS 10D	11HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU10	8,10,12	3/4"C, 3#12 + #12 G	1,3
AHUS 11A	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU11	1,3,5	3/4"C, 3#8 + #10 G	1,3
AHUS 11B	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU11	7,9,11	3/4"C, 3#8 + #10 G	1,3
AHUS 11C	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU11	13,15,17	3/4"C, 3#8 + #10 G	1,3
AHUS 11D	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU11	19,21,23	3/4"C, 3#8 + #10 G	1,3
AHUS 12A	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU12	13,15,17	3/4"C, 3#8 + #10 G	1,3
AHUS 12B	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU12	2,4,6	3/4"C, 3#8 + #10 G	1,3
AHUS 12C	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU12	8,10,12	3/4"C, 3#8 + #10 G	1,3
AHUS 12D	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU12	14,16,18	3/4"C, 3#8 + #10 G	1,3
AHUS 13A	8-1/2 HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU13	25,27,29	3/4"C, 3#12 + #12 G	1,3
AHUS 13B	8-1/2 HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU13	31,33,35	3/4"C, 3#12 + #12 G	1,3
AHUS 13C	8-1/2 HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU13	37,39,41	3/4"C, 3#12 + #12 G	1,3
AHUS 13D	8-1/2 HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU13	2,4,6	3/4"C, 3#12 + #12 G	1,3
AHUS 13E	8-1/2 HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU13	8,10,12	3/4"C, 3#12 + #12 G	1,3
AHUS 13F	8-1/2 HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU13	14,16,18	3/4"C, 3#12 + #12 G	1,3
AHUS 14A	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU14	2,4,6	3/4"C, 3#8 + #10 G	1,3
AHUS 14B	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU14	8,10,12	3/4"C, 3#8 + #10 G	1,3
AHUS 14C	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU14	14,16,18	3/4"C, 3#8 + #10 G	1,3
AHUS 14D	20HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU14	20,22,24	3/4"C, 3#8 + #10 G	1,3
AHUS 15A	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU15	2,4,6	3/4"C, 3#10 + #10 G	1,3
AHUS 15B	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU15	8,10,12	3/4"C, 3#10 + #10 G	1,3
AHUS 15C	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU15	14,16,18	3/4"C, 3#10 + #10 G	1,3
AHUS 15D	15HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU15	20,22,24	3/4"C, 3#10 + #10 G	1,3
AHUS 16A	7-1/2 HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU16	2,4,6	3/4"C, 3#10 + #10 G	1,3
AHUS 16B	7-1/2 HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU16	13,15,17	3/4"C, 3#10 + #10 G	1,3
AHUS 16C	7-1/2 HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU16	8,10,12	3/4"C, 3#10 + #10 G	1,3
AHUS 16D	7-1/2 HP	480 V	3	35KAIC	VFD	MFR/DIV 26	NEAR UNIT	DIV 23	CIRCUIT BREAKER	-	-	-	-	EH-AHU16	19,21,23	3/4"C, 3#10 + #10 G	1,3
AHUS 17	11.7FLA	480 V	3	35KAIC	INTEGRAL ECM	MFR/DIV 26	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	LH-PENTDIST	2,4,6	3/4"C, 3#12 + #12 G	2
AHUS 18	27FLA	208 V	3	35KAIC	INTEGRAL ECM	MFR/DIV 26	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	LL-61	1,3,5	3/4"C, 3#8 + #10 G	2
AHUS 19	11.7FLA	480 V	3	35KAIC	INTEGRAL ECM	MFR/DIV 26	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	LH-PENTDIST	8,10,12	3/4"C, 3#12 + #12 G	2
AHUS 20	(2) 3-1/2 HP	480 V	3	35KAIC	INTEGRAL ECM	MFR/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-CUP1	20,22,24	3/4"C, 3#12 + #12 G	2

GENERAL ELECTRICAL NOTES:

A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.
B. MECHANICAL EQUIPMENT AND CORRESPONDING ELECTRICAL DISCONNECTS/CONTROLLERS SHALL HAVE A STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THIS SCHEDULE, DETAILED BY THE "CALCULATED AFC" COLUMN.

ELECTRICAL NOTES:

1. DISCONNECTING MEANS LOCATED AT CIRCUIT BREAKER IN PANELBOARD SERVING FAN. PROVIDE LOCKABLE BREAKER IN PANELBOARD INDICATED.
2. PROVIDE SINGLE POINT CONNECTION TO AHU. PROVIDE 120V CIRCUITS FOR RECEPTACLES, LIGHTING AND CONTROLS
3. LOCATE VFD WITHIN 50'-0" OF AHU.

CONTROLLER TYPES:

VFD - VARIABLE FREQUENCY MOTOR CONTROLLER
MMS - MANUAL MOTOR STARTER (WITH OVERLOADS)
CP - CONTROL PANEL

MAGS - MAGNETIC STARTER
MRS/MS - MOTOR RATED SWITCH (WITHOUT OVERLOADS)

AIR HANDLING UNIT - RETURN FAN SCHEDULE

MECHANICAL

| EQUIP

AIR HANDLING UNIT - HEATING COIL SCHEDULE - HEATING WATER

MECHANICAL (238216)

			COIL				AIR			WATER									
EQUIPMENT TAG	AHU SERVED	CFM	NUMBER OF COILS	EACH COIL SIZE (W"xH")	ROWS	FINS PER INCH	EAT (F)	LAT (F)	FACE VELOCITY (FPM)	APD (IN W.C.)	EWT (F)	LWT (F)	GPM	GLYCOL TYPE	GLYCOL %	WPD (FT)	CAPACITY (MBH)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
AHUHC 01	AHU 01	40000	3	112x33	1	9	40	60.7	519	0.10	130	109.3	85	NA	NA	17.7	875.3	DAIKIN	5WQ0901B	-
AHUHC 02	AHU 02	40000	3	112x33	1	9	40	60.7	519	0.10	130	109.3	85	NA	NA	17.7	875.3	DAIKIN	5WQ0901B	-
AHUHC 03	AHU 03	40000	3	112x33	1	9	40	60.7	519	0.10	130	109.3	85	NA	NA	17.7	875.3	DAIKIN	5WQ0901B	-
AHUHC 04	AHU 04	32000	2	102x42	1	9	40	60.3	538	0.10	130	109.7	68	NA	NA	17.3	688.9	DAIKIN	5WQ0901B	-
AHUHC 05	AHU 05	32000	2	102x42	1	9	40	60.3	538	0.10	130	109.7	68	NA	NA	17.3	688.9	DAIKIN	5WQ0901B	-
AHUHC 06	AHU 06	22000	2	92x36	2	13	21	60.9	478	0.21	130	109.5	91	NA	NA	4.0	929.7	DAIKIN	5WB1302B	-
AHUHC 07	AHU 07	26000	2	84x42	1	9	40	60.2	531	0.10	130	109.8	55	NA	NA	10.6	556.1	DAIKIN	5WQ0901B	-
AHUHC 08	AHU 08	50000	4	82x46.5	1	6	40	55.8	472	0.05	130	110	86	NA	NA	5.25	853.7	NORTEK	5WC-4-46.5x82x1-6AL	1
AHUHC 09	AHU 09	32000	4	55x46.5	1	6	40	56	450	0.05	130	110	56	NA	NA	4.43	556.3	NORTEK	5WC-6-46.5x55x1-6AL	1
AHUHC 10	AHU 10	24000	2	78.25x46.5	2	11	-20	62.6	475	0.22	130	110	214	NA	NA	6.4	2116.6	NORTEK	5WC-2-46.5x78.25x2-11AL	-
AHUHC 11	AHU 11	33000	6	55.5x33	1	11	40	60.2	600	0.15	130	109.8	72	NA	NA	2.5	727.2	DAIKIN	5WQ1101B	1
AHUHC 12	AHU 12	30000	6	53.76x33	2	9	20	60.9	585.4	0.23	130	109.6	131	NA	NA	2.1	1340.2	DAIKIN	5WH0902B	1
AHUHC 13	AHU 13	32000	4	58x46.5	1	12	28	60.3	427	0.10	130	110	113	NA	NA	7.31	1121.1	NORTEK	5WC-4-46.5x58x1-12AL	1
AHUHC 14	AHU 14	45000	2	159x42	1	6	47	61.9	485	0.06	130	107.1	62	NA	NA	11.5	709.2	DAIKIN	5MQ0601B	-
AHUHC 15	AHU 15	27000	2	110x36	1	10	47	60.6	491	0.10	130	109.1	37	NA	NA	3.0	388.2	DAIKIN	5WB1001B	-
AHUHC 16	AHU 16	18000	2	88x30	1	10	47	60.2	491	0.10	130	109.7	25	NA	NA	1.6	252	DAIKIN	5WB1001B	-
AHUHC 17	AHU 17	7500	2	44x24	2	12	-20	65.9	511	0.36	130	109.8	68	NA	NA	7.4	682.2	DAIKIN	5WH1202C	-
AHUHC 18	AHU 18	7000	2	42x24	2	12	-20	66.1	500	0.34	130	109.7	63	NA	NA	6.4	638.4	DAIKIN	5WH1202C	-
AHUHC 19	AHU 19	7500	2	42x24	2	12	-20	64.6	536	0.39	130	110.1	68	NA	NA	7.3	671.9	DAIKIN	5WH1202C	-
AHUHC 20	AHU 20	5000	1	60x30	2	14	-20	53.6	400	0.17	120	99.6	44	PROPYLENE	50	3.8	402.3	DAIKIN	5WS1402B	-

MECHANICAL NOTES:

1. SPLIT-COIL ARRANGEMENT.

AIR HANDLING UNIT - COOLING COIL SCHEDULE - CHILLED WATER

MECHANICAL

			COIL				AIR					WATER										
EQUIPMENT TAG	AHU SERVED	CFM	NUMBER OF COILS	EACH COIL SIZE (W"xH")	ROWS	FINS PER INCH	EAT DB (F)	EAT WB (F)	LAT DB (F)	LAT WB (F)	FACE VELOCITY (FPM)	APD (IN W.C.)	EWT (F)	LWT (F)	GPM	GLYCOL TYPE	GLYCOL %	WPD (FT)	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
AHUCC 01	AHU 01	40000	2	115x51	8	9	80	67	52.1	51.8	491	0.88	42	58	227	NA	NA	16.2	1183.7	1817.1	DAIKIN	5WSC0908B	2
AHUCC 02	AHU 02	40000	2	115x51	8	9	80	67	52.1	51.8	491	0.88	42	58	227	NA	NA	16.2	1183.7	1817.1	DAIKIN	5WSC0908B	2
AHUCC 03	AHU 03	40000	2	115x51	8	9	80	67	52.1	51.8	491	0.88	42	58	227	NA	NA	16.2	1183.7	1817.1	DAIKIN	5WSC0908B	2
AHUCC 04	AHU 04	32000	2	105x45	8	9	80	67	52.2	51.9	488	0.87	42	57.9	182	NA	NA	12.2	942.1	1441.9	DAIKIN	5WSC0908B	2
AHUCC 05	AHU 05	32000	2	105x42	8	9	80	67	52.2	51.9	488	0.87	42	57.9	182	NA	NA	12.2	942.1	1441.9	DAIKIN	5WSC0908B	2
AHUCC 06	AHU 06	22000	2	95x36	10	12	84	70	48.1	47.9	463	1.22	42	58	181	NA	NA	19.6	836.9	1450.4	DAIKIN	5WS1210B	2
AHUCC 07	AHU 07	26000	2	87x45	8	9	80	67	51.9	51.7	478	0.85	42	58.1	148	NA	NA	14.9	772.7	1188.1	DAIKIN	5WL0908B	2
AHUCC 08	AHU 08	50000	4	82x46.5	10	8	80	66	47.8	47.7	472	1.02	42	58	323	NA	NA	20.58	1769.9	2594.9	NORTEK	5WC-14-46.5x82x10-8AL	1,2
AHUCC 09	AHU 09	32000	4	55x46.5	10	8	80	66	47.9	47.9	450	0.95	42	58	205	NA	NA	14.39	1127.2	1648.3	NORTEK	5WC-18-46.5x55x10-8AL	1,2
AHUCC 10	AHU 10	24000	2	78.25x46.5	6	10	86.3	73.2	52	52	475	0.85	42	58	204	NA	NA	18.2	903.2	1636	NORTEK	5WC-8-46.5x78.25x6-10AL	2
AHUCC 11	AHU 11	33000	4	66.63x50	8	10	80	67	52.2	52	505.1	1.01	42	58.4	182	NA	NA	9.8	1002.2	1496.8	DAIKIN	5WH1008B	1,2
AHUCC 12	AHU 12	30000	4	63.63x50	8	10	84	86	52.3	52	489.1	0.96	42	58.3	193	NA	NA	10.4	1040.8	1574.1	DAIKIN	5WH1008B	1,2
AHUCC 13	AHU 13	32000	4	58x46.5	8	10	84	69	49.6	49.6	427	0.93	42	58.1	230	NA	NA	7.2	1209.8	1857.8	NORTEK	5WC-10-46.5x58x8-10AL	1,2
AHUCC 14	AHU 14	45000	2	159x42	8	10	80	67	51.6	51.4	485	0.93	42	58.3	256	NA	NA	15.2	1351.8	2082.5	DAIKIN	5WM1008B	2
AHUCC 15	AHU 15	27000	2	113x36	8	9	79	66	51.9	51.6	478	0.81	42	58.1	142	NA	NA	11.8	774	1141.7	DAIKIN	5WS0908B	2
AHUCC 16	AHU 16	18000	2	91x30	8	9	79	66	51.8	51.5	475	0.80	42	58.3	94	NA	NA	13.5	518.5	767	DAIKIN	5WL0908B	2
AHUCC 17	AHU 17	7500	2	47x24	6	11	82	68	54.7	54.2	479	0.69	42	58.2	40	NA	NA	6.4	217.1	319.6	DAIKIN	5WH1106B	-
AHUCC 18	AHU 18	7000	2	45x24	6	10	82	68	55.3	54.6	467	0.63	42	57.7	37	NA	NA	5.5	198.3	289.8	DAIKIN	5WH1006B	-
AHUCC 20	AHU 20	2500	1	63x30	4	11	100	78	55.5	54.9	190	0.35	42	58.1	26	NA	NA	5.6	121.5	204.6	DAIKIN	5WH1104B	-

MECHANICAL NOTES:

1. SPLIT-COIL ARRANGEMENT.
2. PROVIDE UV LIGHTS ON EACH BANK OF COILS.

AIR HANDLING UNIT - HEAT RECOVERY COIL SCHEDULE

MECHANICAL

			COIL				WINTER OPERATION											SUMMER OPERATION														
							AIR				WATER							AIR					WATER									
EQUIPMENT TAG	AHU SERVED	CFM	NUMBER OF COILS	EACH COIL SIZE (W"XH")	ROWS	FINS PER INCH	EAT (F)	LAT (F)	FACE VELOCITY (FPM)	APD (IN W.C.)	EWT (F)	LWT (F)	GPM	GLYCOL TYPE	GLYCOL %	WPD (FT)	CAPACITY (MBH)	EAT DB (F)	EAT WB (F)	LAT DB (F)	LAT WB (F)	FACE VELOCITY (FPM)	APD (IN W.C.)	EWT (F)	LWT (F)	GPM	GLYCOL TYPE	GLYCOL %	WPD (FT)	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
AHUHRC 06	AHU 06	22000	2	95x36	6	10	20	31.4	463	0.49	44	35.5	70	PROPYLENE	50	17.4	270.5	83.8	69	81.1	68.2	463	0.62	79.7	81.8	70	PROPYLENE	50	18.3	64.7	64.7	DAIKIN	5WL1006B	1
AHUHRC 10	AHU 10	24000	2	78.25x46.5	6	10	-20	5.6	475	0.6	28.4	23.4	300	PROPYLENE	50	20.78	655.7	93	75	85.9	73.1	475	0.6	83.5	84.9	300	PROPYLENE	50	14.2	188.6	188.6	NORTEK	5WC-4-46.5x78.25x6-10AL	1
AHUHRC 13	AHU 13	16000	2	53.75x46.5	6	10	-20	5.5	461	0.57	25.2	21.6	280	PROPYLENE	50	13.27	435.4	93	75	86.4	73.2	461	0.57	84.4	85.3	280	PROPYLENE	50	7.74	115.5	115.5	NORTEK	5WC-4-46.5x53.75x6-10AL	1
AHUHRC EF-06	AHU EF-06	12000	2	59x30	6	10	68	47.2	488	0.62	35.5	44	70	PROPYLENE	50	16.9	272	75	-	80.1	-	488	0.61	81.8	79.6	70	PROPYLENE	50	17	65.6	65.6	DAIKIN	5WS1006B	-
AHUHRC EF-10	AHU EF-10	22000	2	95.75x34.5	6	10	68	42	479	0.7	23.4	28.4	300	PROPYLENE	50	26.51	655.7	75	62	82.9	64.3	479	0.6	84.9	83.5	300	PROPYLENE	50	18.76	188.6	188.6	NORTEK	5WC-4-34.5x95.75x6-10AL	-
AHUHRC EF-13	AHU EF-13	12800	2	55.75x34.5	6	10	68	54	479	0.74	21.6	25.2	280	PROPYLENE	50	17.69	396.7	75	62	83.3	64.3	479	0.6	85.3	84.4	280	PROPYLENE	50	11.54	115.5	115.5	NORTEK	5WC-4-34.5x55.75x6-10AL	-

MECHANICAL NOTES:

1. PROVIDE UV LIGHTS ON EACH BANK OF COILS.

AIR HANDLING UNIT - HUMIDIFIER SCHEDULE

MECHANICAL

EQUIPMENT TAG	AHU SERVED	TYPE	CFM	EAT DB (F)	EAT WB (F)	STEAM CAPACITY (LBS/HR)	INLET STEAM PRESSURE: (PSIG)	NUMBER OF MANIFOLDS	MANIFOLD LENGTH (IN)	TUBE SPACING (IN)	ABSORPTION DISTANCE (IN)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
AHUH 01	AHU 01	DIRECT	40000	55	35.8	266.4	10	1	120	3	2.3	CONDAIR	SAMe	1,2
AHUH 02	AHU 02	DIRECT	40000	55	35.8	266.4	10	1	120	3	2.3	CONDAIR	SAMe	1,2
AHUH 03	AHU 03	DIRECT	40000	55	35.8	266.4	10	1	120	3	2.3	CONDAIR	SAMe	1,2
AHUH 04	AHU 04	DIRECT	32000	55	35.8	213.2	10	1	108	3	2.3	CONDAIR	SAMe	1,2
AHUH 05	AHU 05	DIRECT	32000	55	35.8	213.2	10	1	108	3	2.3	CONDAIR	SAMe	1,2
AHUH 06	AHU 06	DIRECT	22000	55	21.6	245.5	10	1	96	3	0.0	CONDAIR	SAMe	1,2
AHUH 07	AHU 07	DIRECT	26000	55	35.8	173.2	10	1	90	3	2.2	CONDAIR	SAMe	1,2
AHUH 08	AHU 08	DIRECT	50000	55	35.8	309.4	10	1	142	12	4.3	CONDAIR	SAMe	1,2
AHUH 09	AHU 09	DIRECT	32000	55	35.8	249.8	10	1	112	12	3.8	CONDAIR	SAMe	1,2
AHUH 10	AHU 10	DIRECT	24000	-20	-20.5	532.5	10	1	82	9	11.5	CONDAIR	SAMe	1,2
AHUH 11	AHU 11	DIRECT	33000	55	35.8	224.7	10	1	96	3	2.8	CONDAIR	SAMe	1,2
AHUH 12	AHU 12	DIRECT	30000	55	21.6	333.1	10	1	90	3	3.7	CONDAIR	SAMe	1,2
AHUH 13	AHU 13	DIRECT	32000	55	28.9	282.7	10	1	118	12	3.3	CONDAIR	SAMe	1,2
AHUH 14	AHU 14	DIRECT	45000	52	42.4	306.4	10	2	78	3	3	CONDAIR	SAMe	1,2
AHUH 15	AHU 15	DIRECT	27000	52	42.4	183.8	10	1	108	3	2.6	CONDAIR	SAMe	1,2
AHUH 16	AHU 16	DIRECT	18000	52	42.4	122.6	10	1	84	3	3.4	CONDAIR	SAMe	1,2

MECHANICAL NOTES:

1. 10 PSIG UPSTREAM OF CONTROL VALVE.
2. PROVIDE WITH A STAND. MINIMUM OF 12" IN HEIGHT.

AIR HANDLING UNIT - AIR BLENDER SCHEDULE

MECHANICAL

EQUIPMENT TAG	AHU SERVED	MINIMUM CFM	DESIGN CFM	MINIMUM APD (IN W.C.)	DESIGN APD (IN W.C.)	MINIMUM VELOCITY (FPM)	DESIGN VELOCITY (FPM)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
AHUAB 01	AHU 01	19500	40000	0.08	0.35	706	1449	BLENDER PRODUCTS	(3) ABS40	-
AHUAB 02	AHU 02	19500	40000	0.08	0.35	706	1449	BLENDER PRODUCTS	(3) ABS40	-
AHUAB 03	AHU 03	19500	40000	0.08	0.35	706	1449	BLENDER PRODUCTS	(3) ABS40	-
AHUAB 04	AHU 04	17000	32000	0.1	0.34	755	1422	BLENDER PRODUCTS	(3) ABS36	-
AHUAB 05	AHU 05	17000	32000	0.1	0.34	755	1422	BLENDER PRODUCTS	(3) ABS36	-
AHUAB 06	AHU 06	11000	22000	0.06	0.25	621	1243	BLENDER PRODUCTS	(2) ABS44	-
AHUAB 07	AHU 07	14000	26000	0.06	0.21	630	1171	BLENDER PRODUCTS	(2) ABS52	-
AHUAB 08	AHU 08	25000	50000	0.06	0.26	507	1014	BLENDER PRODUCTS	(3) ABS48	-
AHUAB 09	AHU 09	16000	32000	0.06	0.24	500	1000	BLENDER PRODUCTS	(2) ABS48	-
AHUAB 11	AHU 11	22000	33000	0.07	0.16	705	1058	BLENDER PRODUCTS	(2) ABS44	-
AHUAB 12	AHU 12	21000	30000	0.09	0.19	792	1132	BLENDER PRODUCTS	(2) ABS48	-
AHUAB 13	AHU 13	15000	32000	0.05	0.25	470	1000	BLENDER PRODUCTS	(2) ABS48	-
AHUAB 14	AHU 14	28000	45000	0.06	0.16	676	1087	BLENDER PRODUCTS	(2) ABS60	-
AHUAB 15	AHU 15	18000	27000	0.06	0.15	670	1019	BLENDER PRODUCTS	(2) ABS48	-
AHUAB 16	AHU 16	9000	18000	0.03	0.13	489	978	BLENDER PRODUCTS	(2) ABS40	-

MECHANICAL NOTES:

AIR HANDLING UNIT - PREFILTER SCHEDULE

MECHANICAL

EQUIPMENT TAG	AHU SERVED	TYPE	CFM	NUMBER OF MODULES & SIZE PER MODULE (H"xL"xD")	EFFICIENCY (%)	MERV RATING	APD CLEAN (IN W.C.)	APD AT 50% LOADING (IN W.C.)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
AHUPF 01	AHU 01	PLEATED	40000	(10) 24x24x2 & (15) 20x24x2	30	8	0.21	0.61	AFF	PERFECTPLEAT HC M8	1
AHUPF 02	AHU 02	PLEATED	40000	(10) 24x24x2 & (15) 20x24x2	30	8	0.21	0.61	AFF	PERFECTPLEAT HC M8	1
AHUPF 03	AHU 03	PLEATED	40000	(10) 24x24x2 & (15) 20x24x2	30	8	0.21	0.61	AFF	PERFECTPLEAT HC M8	1
AHUPF 04	AHU 04	PLEATED	32000	(16) 24x24x2 & (4) 24x20x2	30	8	0.19	0.60	AFF	PERFECTPLEAT HC M8	1
AHUPF 05	AHU 05	PLEATED	32000	(16) 24x24x2 & (4) 24x20x2	30	8	0.19	0.60	AFF	PERFECTPLEAT HC M8	1
AHUPF 06	AHU 06	PLEATED	22000	(15) 24x20x2	30	8	0.21	0.60	AFF	PERFECTPLEAT HC M8	1
AHUPF 07	AHU 07	PLEATED	26000	(16) 24x24x2	30	8	0.19	0.59	AFF	PERFECTPLEAT HC M8	1
AHUPF 08	AHU 08	PLEATED	50000	(28) 24x24x2	30	8	0.27	0.52	AFF	PERFECTPLEAT SC M8	1
AHUPF 09	AHU 09	PLEATED	32000	(20) 24x24x2	30	8	0.27	0.45	AFF	PERFECTPLEAT SC M8	1
AHUPF 10	AHU 10	PLEATED	24000	(12) 24x24x2 & (4) 12x24x2	30	8	0.27	0.49	AFF	PERFECTPLEAT SC M8	1
AHUPF 11	AHU 11	PLEATED	33000	(16) 24x24x2 & (4) 24x12x2	30	8	0.22	0.61	AFF	PERFECTPLEAT HC M8	1
AHUPF 12	AHU 12	PLEATED	30000	(16) 24x24x2	30	8	0.23	0.61	AFF	PERFECTPLEAT HC M8	1
AHUPF 13	AHU 13	PLEATED	32000	(16) 24x24x2 & (8) 12x24x2	30	8	0.27	0.45	AFF	PERFECTPLEAT SC M8	1
AHUPF 14	AHU 14	PLEATED	45000	(12) 24x24x2 & (12) 20x24x2	30	8	0.26	0.63	AFF	PERFECTPLEAT HC M8	1
AHUPF 15	AHU 15	PLEATED	27000	(12) 24x24x2 & (3) 24x12x2	30	8	0.25	0.62	AFF	PERFECTPLEAT HC M8	1
AHUPF 16	AHU 16	PLEATED	18000	(9) 20x24x2 & (3) 20x20x2	30	8	0.23	0.61	AFF	PERFECTPLEAT HC M8	1
AHUPF 17	AHU 17	PLEATED	7500	(4) 20x24x2 & (2) 12x24x2	30	8	0.21	0.60	AFF	PERFECTPLEAT HC M8	1
AHUPF 18	AHU 18	PLEATED	7000	(4) 24x24x2	30	8	0.21	0.60	AFF	PERFECTPLEAT HC M8	1
AHUPF 19	AHU 19	PLEATED	7500	(4) 24x24x2	30	8	0.23	0.61	AFF	PERFECTPLEAT HC M8	1
AHUPF 20	AHU 20	PLEATED	5000	(3) 20x24x2 & (3) 12x24x2	30	8	0.14	0.57	AFF	PERFECTPLEAT HC M8	1
AHUPF EF-06	AHU EF-06	PLEATED	12000	(4) 24x24x2 & (2) 24x12x2 & (2) 12x24x2	30	8	0.25	0.62	AFF	PERFECTPLEAT HC M8	1
AHUPF EF-10	AHU EF-10	PLEATED	22000	(12) 24x24x2	30	8	0.27	0.54	AFF	PERFECTPLEAT SC M8	1
AHUPF EF-13	AHU EF-13	PLEATED	12800	(6) 24x24x2 & (3) 12x24x2	30	8	0.27	0.49	AFF	PERFECTPLEAT SC M8	1

MECHANICAL NOTES:

1. FACE LOAD FILTERS.

AIR HANDLING UNIT - FINAL FILTER SCHEDULE

MECHANICAL

EQUIPMENT TAG	AHU SERVED	TYPE	CFM	NUMBER OF MODULES & SIZE PER MODULE (H"xL"xD")	EFFICIENCY (%)	MERV RATING	APD CLEAN (IN W.C.)	APD AT 50% LOADING (IN W.C.)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
AHUFF 01	AHU 01	CARTRIDGE	40000	(20) 20x24x12 & (5) 20x20x12	95	14	0.63	1.06	AFF	VARICEL SH	1
AHUFF 02	AHU 02	CARTRIDGE	40000	(20) 20x24x12 & (5) 20x20x12	95	14	0.63	1.06	AFF	VARICEL SH	1
AHUFF 03	AHU 03	CARTRIDGE	40000	(20) 20x24x12 & (5) 20x20x12	95	14	0.63	1.06	AFF	VARICEL SH	1
AHUFF 04	AHU 04	CARTRIDGE	32000	(4) 24x24x12 & (16) 24x20x12	95	14	0.56	1.03	AFF	VARICEL SH	1
AHUFF 05	AHU 05	CARTRIDGE	32000	(4) 24x24x12 & (16) 24x20x12	95	14	0.56	1.03	AFF	VARICEL SH	1
AHUFF 06	AHU 06	CARTRIDGE	22000	(12) 24x24x12	95	14	0.55	1.03	AFF	VARICEL SH	1
AHUFF 07	AHU 07	CARTRIDGE	26000	(8) 24x24x12 & (8) 24x20x12	95	14	0.53	1.01	AFF	VARICEL SH	1
AHUFF 08	AHU 08	CARTRIDGE	50000	(28) 24x24x12	95	14	0.36	0.78	AFF	VARICEL RF M14	1
AHUFF 09	AHU 09	CARTRIDGE	32000	(20) 24x24x12	95	14	0.36	0.69	AFF	VARICEL RF M14	1
AHUFF 10	AHU 10	CARTRIDGE	24000	(12) 24x24x12 & (4) 12x24x12	95	14	0.36	0.75	AFF	VARICEL RF M14	1
AHUFF 11	AHU 11	CARTRIDGE	33000	(4) 24x24x12 & (16) 20x24x12	95	14	0.59	1.04	AFF	VARICEL SH	1
AHUFF 12	AHU 12	CARTRIDGE	30000	(20) 20x24x12	95	14	0.54	1.02	AFF	VARICEL SH	1
AHUFF 13	AHU 13	CARTRIDGE	32000	(20) 24x24x12	95	14	0.36	0.69	AFF	VARICEL RF M14	1
AHUFF 14	AHU 14	CARTRIDGE	45000	(12) 24x24x12 & (12) 20x24x12	95	14	0.65	1.08	AFF	VARICEL SH	1
AHUFF 15	AHU 15	CARTRIDGE	27000	(12) 20x24x12 & (8) 20x20x12	95	14	0.51	1.01	AFF	VARICEL SH	1
AHUFF 16	AHU 16	CARTRIDGE	18000	(9) 20x24x12 & (3) 20x20x12	95	14	0.58	1.04	AFF	VARICEL SH	1

MECHANICAL NOTES:

1. FACE LOAD FILTERS.

PREVIOUSLY ISSUED AS PART OF MECHANICAL PROCUREMENT PACKAGE

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3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Justin A. Thiner, P.E.

Date 09/22/2025 Reg. No. 48171

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE
	MECH PROCUREMENT	03/21/2025

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
AIR HANDLING UNIT SCHEDULES

SHEET NO.
ME5.11

PLOT DATE: 9/18/2025 8:30:29 PM TEMPLATE VERSION: 23.3.4

CHILLER SCHEDULE - WATER COOLED

MECHANICAL

EQUIPMENT TAG	APPLICATION	TYPE	RATING POINT CAPACITY (TONS)	RATING POINT POWER (KW)	EVAPORATOR (WATER SIDE) GPM	GLYCOL TYPE	WPD (FT)	FOULING FACTOR	EWT (F)	LWT (F)	CONDENSER (WATER SIDE) GPM	GLYCOL TYPE	WPD (FT)	FOULING FACTOR	EWT (F)	LWT (F)	COMPRESSOR NUMBER OF COMPRESSORS	SOUND PRESSURE (DB) 250 HZ	500 HZ	1000 HZ	REFRIGERANT TYPE	VFD (YES/NO)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
CH 01	CHILLED WATER	CENTRIFUGAL	500	303.2	750	WATER	8.6	0.0001	58	42	1500	WATER	26.9	0.00025	85	95	1	74	72	73	R-514A	YES	TRANE	CVHF	1
CH 02	CHILLED WATER	CENTRIFUGAL	500	303.2	750	WATER	8.6	0.0001	58	42	1500	WATER	26.9	0.00025	85	95	1	74	72	73	R-514A	YES	TRANE	CVHF	1
CH 03	CHILLED WATER	CENTRIFUGAL	500	303.2	750	WATER	8.6	0.0001	58	42	1500	WATER	26.9	0.00025	85	95	1	74	72	73	R-514A	YES	TRANE	CVHF	1
CH 04	HEAT RECOVERY	ROTARY SCREW	250	215.9	255	WATER	14.9	0.0001	58	42	285	WATER	1.4	0.00025	110	130	2	72	68	78	R-513A	NO	TRANE	RTWD	2

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

1. PROVIDE WITH MARINE WATER BOX AND FACTORY VFD.
2. PROVIDE FACTORY INSULATED CONEDNSER AND EVAPORATOR HEAT EXCHANGERS.

ELECTRICAL

EQUIPMENT TAG	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	CONTROLLER TYPE	FURNISHED BY/ INSTALLED BY	LOCATION	CTRL WIRE BY	DISCONNECT AT MOTOR AMPS/TYPE	FUSE SIZE (AMPS)	NEMA TYPE	FURNISHED BY/ INSTALLED BY	LOCATION	PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	ELECTRICAL NOTES
CH 01	485 MCA	480 V	3	65KAIC	INTEGRAL VFD	MFR/MFR	AT UNIT	DIV 23	800A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	OH-CUP2	1	(2) 2-1/2"C, 3#250 +#1/0 G	1
CH 02	485 MCA	480 V	3	65KAIC	INTEGRAL VFD	MFR/MFR	AT UNIT	DIV 23	800A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	OH-CUP1	1	(2) 2-1/2"C, 3#250 +#1/0 G	1
CH 03	485 MCA	480 V	3	65KAIC	INTEGRAL VFD	MFR/MFR	AT UNIT	DIV 23	800A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	OH-CUP1	2	(2) 2-1/2"C, 3#250 +#1/0 G	1
CH 04	346 MCA	480 V	3	65KAIC	INTEGRAL	MFR/MFR	AT UNIT	DIV 23	600A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	OH-CUP2	2	2-1/2"C, 3#500 + #2 G	1

GENERAL ELECTRICAL NOTES:

A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.
B. MECHANICAL EQUIPMENT AND CORRESPONDING ELECTRICAL DISCONNECTS/CONTROLLERS SHALL HAVE A STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THIS SCHEDULE, DETAILED BY THE "CALCULATED AFC" COLUMN.

ELECTRICAL NOTES:

1. PROVIDE LOCKABLE DISCONNECT WITHIN LINE OF SIGHT OF CHILLER

CONTROLLER TYPES:

VFD - VARIABLE FREQUENCY MOTOR CONTROLLER
MMS - MANUAL MOTOR STARTER (WITH OVERLOADS)
CP - CONTROL PANEL
MAGS - MAGNETIC STARTER
MRS/MS - MOTOR RATED SWITCH (WITHOUT OVERLOADS)

COOLING TOWER SCHEDULE

MECHANICAL

EQUIPMENT TAG	LOCATION	APPLICATION	TYPE	GPM	EWT (F)	LWT (F)	EAT WB (F)	FAN NUMBER OF FANS	FAN MOTOR HP (EACH)	FAN TOTAL CFM	BASIN HEATER NUMBER OF HEATERS	BASIN HEATER KW (EACH)	SOUND POWER 250	500	1000	HEAT REJECTION CAPACITY (MBH)	HEIGHT DIFFERENCE (FT)	VFD (YES/NO)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
CT 01	CUP ROOF	HVAC COOLING	CROSSFLOW	1500	95	85	79	1	30	137170	2	10	98	92	88	7497	11.3	YES	BAC	S3E-1222-07O	1,2,3
CT 02	CUP ROOF	HVAC COOLING	CROSSFLOW	1500	95	85	79	1	30	137170	2	10	98	92	88	7497	11.3	YES	BAC	S3E-1222-07O	1,2,3
CT 03	CUP ROOF	HVAC COOLING	CROSSFLOW	1500	95	85	79	1	30	137170	2	10	98	92	88	7497	11.3	YES	BAC	S3E-1222-07O	1,2,3

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

1. PROVIDE WITH VIBRATION CUTOUT SWITCH, AND LOW SOUND FAN OPTION.
2. PROVIDE WITH MOTOR REMOVAL SYSTEM, EXTERNAL LADDER AND RAILING PACKAGE, INTERNAL WALK WAY AND AIR INTAKE SCREEN.
3. PROVIDE STAINLESS STEEL FOR HOT AND COLD WATER BASINS. PROVIDE BALTIBOND HYBRID COATING FOR ALL GALVANZED PARTS.

ELECTRICAL

EQUIPMENT TAG	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	CONTROLLER TYPE	FURNISHED BY/ INSTALLED BY	LOCATION	CTRL WIRE BY	DISCONNECT AT MOTOR AMPS/TYPE	FUSE SIZE (AMPS)	NEMA TYPE	FURNISHED BY/ INSTALLED BY	LOCATION	PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	ELECTRICAL NOTES
CT 01A	30 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	100A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	OH-CUP2	12	3/4"C, 3#8 + #8 G	1,3
CT 01B	(2) 10KW	480 V	3	65KAIC	INTEGRAL	MFR/MFR	AT UNIT	DIV 23	60A/3P - FUSIBLE	NOTE 4	NEMA-3R	DIV 26/DIV 26	AT UNIT	OH-CUP2	16	3/4"C, 3#8 + #10 G	2,4
CT 02A	30 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	100A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	OH-CUP2	13	3/4"C, 3#8 + #8 G	1,3
CT 02B	(2) 10KW	480 V	3	65KAIC	INTEGRAL	MFR/MFR	AT UNIT	DIV 23	60A/3P - FUSIBLE	NOTE 4	NEMA-3R	DIV 26/DIV 26	AT UNIT	OH-CUP2	17	3/4"C, 3#8 + #10 G	2,4
CT 03A	30 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	100A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	OH-CUP1	12	3/4"C, 3#8 + #8 G	1,3
CT 03B	(2) 10KW	480 V	3	65KAIC	INTEGRAL	MFR/MFR	AT UNIT	DIV 23	60A/3P - FUSIBLE	NOTE 4	NEMA-3R	DIV 26/DIV 26	AT UNIT	OH-CUP1	13	3/4"C, 3#8 + #10 G	2,4

GENERAL ELECTRICAL NOTES:

A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.
B. MECHANICAL EQUIPMENT AND CORRESPONDING ELECTRICAL DISCONNECTS/CONTROLLERS SHALL HAVE A STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THIS SCHEDULE, DETAILED BY THE "CALCULATED AFC" COLUMN.

ELECTRICAL NOTES:

1. PROVIDE CONNECTION AS INDICATED TO COOLING TOWER FAN POWER. COORDINATE EXACT CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER.
2. PROVIDE CONNECTION AS INDICATED TO COOLING TOWER BASIN HEATERS. COORDINATE EXACT CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER.
3. PROVIDE 120, 20A POWER CONNECTION TO COOLING TOWER ANCILLARY CONNECTIONS.
4. FUSE PER MANUFACTURER'S RECOMMENDATION.

CONTROLLER TYPES:

VFD - VARIABLE FREQUENCY MOTOR CONTROLLER
MMS - MANUAL MOTOR STARTER (WITH OVERLOADS)
CP - CONTROL PANEL
MAGS - MAGNETIC STARTER
MRS/MS - MOTOR RATED SWITCH (WITHOUT OVERLOADS)

DRY COOLER SCHEDULE

MECHANICAL

EQUIPMENT TAG	LOCATION	APPLICATION	FAN NUMBER OF FANS	FAN NUMBER OF MOTORS	FAN MOTOR HP (EACH)	FAN TOTAL CFM	GPM	PERFORMANCE EWT (F)	LWT (F)	AMBIENT AIR DB (F)	WPD (FT)	GLYCOL TYPE	GLYCOL %	VFD (YES/NO)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
DC 01	CUP ROOF	WATER ECONOMIZER	8	8	3.2	125,500	160	53	37	20	6.3	PROPYLENE	50	NO	GUNTNER	GFW 090.2D2x4	1,2
DC 02	CUP ROOF	WATER ECONOMIZER	8	8	3.2	125,500	160	53	37	20	6.3	PROPYLENE	50	NO	GUNTNER	GFW 090.2D2x4	1,2

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

1. PROVIDE WITH FACTORY VIBRATION DAMPERS, FIN AND PAD GAURDS, DRAIN VALVES AND HINGED FAN PANELS.
2. PROVIDE WITH EC MOTORS AND FACTORY SPEED CONTROLLER.

ELECTRICAL

EQUIPMENT TAG	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	CONTROLLER TYPE	FURNISHED BY/ INSTALLED BY	LOCATION	CTRL WIRE BY	DISCONNECT AT MOTOR AMPS/TYPE	FUSE SIZE (AMPS)	NEMA TYPE	FURNISHED BY/ INSTALLED BY	LOCATION	PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	ELECTRICAL NOTES
DC 01	32.2 MCA	480 V	3	65KAIC	INTEGRAL	MFR/MFR	AT UNIT	DIV 23	60A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	OH-CUP2	14	3/4"C, 3#6 + #8 G	-
DC 02	32.2 MCA	480 V	3	65KAIC	INTEGRAL	MFR/MFR	AT UNIT	DIV 23	60A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	OH-CUP2	15	3/4"C, 3#6 + #8 G	-

GENERAL ELECTRICAL NOTES:

A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.
B. MECHANICAL EQUIPMENT AND CORRESPONDING ELECTRICAL DISCONNECTS/CONTROLLERS SHALL HAVE A STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THIS SCHEDULE, DETAILED BY THE "CALCULATED AFC" COLUMN.

ELECTRICAL NOTES:

CONTROLLER TYPES:

VFD - VARIABLE FREQUENCY MOTOR CONTROLLER
MMS - MANUAL MOTOR STARTER (WITH OVERLOADS)
CP - CONTROL PANEL
MAGS - MAGNETIC STARTER
MRS/MS - MOTOR RATED SWITCH (WITHOUT OVERLOADS)

BOILER SCHEDULE - HEATING WATER

MECHANICAL

EQUIPMENT TAG	APPLICATION	TYPE	BOILER RATED PRESSURE (PSIG)	OUTPUT (MBH)	FLUE CONNECTION SIZE (IN)	WATER EWT (F)	LWT (F)	GPM	GLYCOL TYPE	WPD (FT)	BURNER GAS INPUT (CFH)	GAS TYPE	GAS PRESSURE TO REGULATOR (PSIG)	TURNDOWN	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
B 01	HOT WATER	CONDENSING	160	4,804	14	110	130	480	WATER	13.9	5,000	NATURAL GAS	5	20:1	LOCHINVAR	FCB5000	-
B 02	HOT WATER	CONDENSING	160	4,804	14	110	130	480	WATER	13.9	5,000	NATURAL GAS	5	20:1	LOCHINVAR	FCB5000	-
B 03	HOT WATER	CONDENSING	160	4,804	14	110	130	480	WATER	13.9	5,000	NATURAL GAS	5	20:1	LOCHINVAR	FCB5000	-
B 04	HOT WATER	CONDENSING	160	4,804	14	110	130	480	WATER	13.9	5,000	NATURAL GAS	5	20:1	LOCHINVAR	FCB5000	-
B 05	HOT WATER	CONDENSING	160	4,804	14	110	130	480	WATER	13.9	5,000	NATURAL GAS	5	20:1	LOCHINVAR	FCB5000	-

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

ELECTRICAL

EQUIPMENT TAG	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	CONTROLLER TYPE	FURNISHED BY/ INSTALLED BY	LOCATION	CTRL WIRE BY	DISCONNECT AT MOTOR AMPS/TYPE	FUSE SIZE (AMPS)	NEMA TYPE	FURNISHED BY/ INSTALLED BY	LOCATION	PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	ELECTRICAL NOTES
B 01	5 FLA	480 V	3	35KAIC	INTEGRAL CP	MFR/MFR	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-CUP1	1,3,5	3/4"C, 3#12 + #12 G	-
B 02	5 FLA	480 V	3	35KAIC	INTEGRAL CP	MFR/MFR	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-CUP2	13,15,17	3/4"C, 3#12 + #12 G	-
B 03	5 FLA	480 V	3	35KAIC	INTEGRAL CP	MFR/MFR	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-CUP1	7,9,11	3/4"C, 3#12 + #12 G	-
B 04	5 FLA	480 V	3	35KAIC	INTEGRAL CP	MFR/MFR	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-CUP2	19,21,23	3/4"C, 3#12 + #12 G	-
B 05	5 FLA	480 V	3	35KAIC	INTEGRAL CP	MFR/MFR	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-CUP1	13,15,17	3/4"C, 3#12 + #12 G	-

GENERAL ELECTRICAL NOTES:

A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.
B. MECHANICAL EQUIPMENT AND CORRESPONDING ELECTRICAL DISCONNECTS/CONTROLLERS SHALL HAVE A STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THIS SCHEDULE, DETAILED BY THE "CALCULATED AFC" COLUMN.

ELECTRICAL NOTES:

CONTROLLER TYPES:

MMS - MANUAL MOTOR STARTER (WITH OVERLOADS)
CP - CONTROL PANEL
MAGS - MAGNETIC STARTER
MRS/MS - MOTOR RATED SWITCH (WITHOUT OVERLOADS)

SIDE STREAM FILTER SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	TYPE	FILTRATION BAG LENGTH (IN)	MICRON RATING	INLET SIZE (IN)	OUTLET SIZE (IN)	PURGE OUTLET SIZE (IN)	PUMP GPM	PUMP HP	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
SSF 01	CONDENSER WATER	BASIN SWEEP	33	10	6	4	1.5	310	7.5	LAKOS	ETCX-0310-EFS/ACP1 TC	1,2,3,4

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

1. PROVIDE WITH MULTI-TOWER BASIN CLEANING KIT TO ALTERNATE BETWEEN FOUR COOLING TOWERS.
2. SYSTEM SHALL BE ASME WITH STAINLESS STEEL MATERIAL.
3. PROVIDE WITH ELECTRIC FAIL SAFE PURGE VALVE.
4. PROVIDE WITH HI EFF SWEEPER AND EHTX-0140 SEPERATOR. FOR BAC 3000 SERIES COOLING TOWER.

ELECTRICAL

EQUIPMENT TAG	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	CONTROLLER TYPE	FURNISHED BY/ INSTALLED BY	LOCATION	CTRL WIRE BY	DISCONNECT AT MOTOR AMPS/TYPE	FUSE SIZE (AMPS)	NEMA TYPE	FURNISHED BY/ INSTALLED BY	LOCATION	PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	ELECTRICAL NOTES
SSF 01	7-1/2 HP	480 V	3	35KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	30A/3P - NON FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	OH-CUP1	14	3/4"C, 3#12 + #12 G	-

GENERAL ELECTRICAL NOTES:

A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.
B. MECHANICAL EQUIPMENT AND CORRESPONDING ELECTRICAL DISCONNECTS/CONTROLLERS SHALL HAVE A STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THIS SCHEDULE, DETAILED BY THE "CALCULATED AFC" COLUMN.

ELECTRICAL NOTES:

CONTROLLER TYPES:

MMS - MANUAL MOTOR STARTER (WITH OVERLOADS)
CP - CONTROL PANEL
MAGS - MAGNETIC STARTER
MRS/MS - MOTOR RATED SWITCH (WITHOUT OVERLOADS)

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OWNER
HEALTHPARTNERS
3000 CURVE CREST BLVD
STILLWATER, MN 55082

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ERA STRUCTURAL ENGINEERING
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MAPLE GROVE, MN 55369

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3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Justin A. Thiner, P.E.
Date 09/22/2025 Reg. No. 48171

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE
	MECH PROCUREMENT	03/21/2025

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
HYDRONIC EQUIPMENT SCHEDULES

SHEET NO.
ME5.12

PLOT DATE: 9/18/2025 5:10:03 PM TEMPLATE VERSION: 23.3.4

HYDRONIC PUMP SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	TYPE	GPM	DISCHARGE HEAD (FT)	GLYCOL TYPE	GLYCOL %	NPSHR (FT)	RPM	BHP	SUCTION SIZE (IN)	DISCHARGE SIZE (IN)	TRIPLE DUTY VALVE MODEL NUMBER	TRIPLE DUTY VALVE PRESSURE DROP (FT)	SUCTION DIFFUSER MODEL NUMBER	SUCTION DIFFUSER PRESSURE DROP (FT)	VFD (YES/NO)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
CP 01	CONDENSER WATER	BASE MOUNTED	1,500	85	WATER	0	9.9	1697	39.2	8	6	3DS-10S	3.3	JH-3	1.9	YES	BELL & GOSSETT	E-1510-6G	-
CP 02	CONDENSER WATER	BASE MOUNTED	1,500	85	WATER	0	9.9	1697	39.2	8	6	3DS-10S	3.3	JH-3	1.9	YES	BELL & GOSSETT	E-1510-6G	-
CP 03	CONDENSER WATER	BASE MOUNTED	1,500	85	WATER	0	9.9	1697	39.2	8	6	3DS-10S	3.3	JH-3	1.9	YES	BELL & GOSSETT	E-1510-6G	-
CP 04	CONDENSER WATER	BASE MOUNTED	1,500	85	WATER	0	9.9	1697	39.2	8	6	3DS-10S	3.3	JH-3	1.9	YES	BELL & GOSSETT	E-1510-6G	-
CP 05	CONDENSER WATER	BASE MOUNTED	310	50	WATER	0	8.8	1636	5.4	3	2.5	3DS-4S	3.4	ED-3	4.1	YES	BELL & GOSSETT	E-1510-2.5BB	-
CP 06	CONDENSER WATER	BASE MOUNTED	310	50	WATER	0	8.8	1636	5.4	3	2.5	3DS-4S	3.4	ED-3	4.1	YES	BELL & GOSSETT	E-1510-2.5BB	-
CP 07	CONDENSER WATER	BASE MOUNTED	160	55	PROPYLENE	50	4.3	1655	3.4	2.5	2	3DS-4B	3.8	EC-3	2.9	YES	BELL & GOSSETT	E-1510-2BD	-
CP 08	CONDENSER WATER	BASE MOUNTED	160	55	PROPYLENE	50	4.3	1655	3.4	2.5	2	3DS-4B	3.8	EC-3	2.9	YES	BELL & GOSSETT	E-1510-2BD	-
PCWP 01	CHILLED WATER	BASE MOUNTED	750	165	WATER	0	10.9	1718	38.4	5	4	3DS-8B	3.3	GF-3	3.3	YES	BELL & GOSSETT	E-1510-4GC	-
PCWP 02	CHILLED WATER	BASE MOUNTED	750	165	WATER	0	10.9	1718	38.4	5	4	3DS-8B	3.3	GF-3	3.3	YES	BELL & GOSSETT	E-1510-4GC	-
PCWP 03	CHILLED WATER	BASE MOUNTED	750	165	WATER	0	10.9	1718	38.4	5	4	3DS-8B	3.3	GF-3	3.3	YES	BELL & GOSSETT	E-1510-4GC	-
PCWP 04	CHILLED WATER	BASE MOUNTED	750	165	WATER	0	10.9	1718	38.4	5	4	3DS-8B	3.3	GF-3	3.3	YES	BELL & GOSSETT	E-1510-4GC	-
PCWP 05	CHILLED WATER	BASE MOUNTED	150	80	WATER	0	4.2	1633	4.2	2.5	2	3DS-4B	3.9	EC-3	2.2	YES	BELL & GOSSETT	E-1510-2BD	-
PCWP 06	CHILLED WATER	BASE MOUNTED	150	80	WATER	0	4.2	1633	4.2	2.5	2	3DS-4B	3.9	EC-3	2.2	YES	BELL & GOSSETT	E-1510-2BD	-
PCWP 07	CHILLED WATER	BASE MOUNTED	260	145	WATER	0	11.9	3505	12.7	2.5	2	3DS-4S	3.4	EC-3	6.5	YES	BELL & GOSSETT	E-1510-2AD	-
PCWP 08	CHILLED WATER	BASE MOUNTED	260	145	WATER	0	11.9	3505	12.7	2.5	2	3DS-4S	3.4	EC-3	6.5	YES	BELL & GOSSETT	E-1510-2AD	-
PHWP 01	HEATING WATER	BASE MOUNTED	600	145	WATER	0	16	3450	25.8	4	3	3DS-8B	3.3	GE-3	6.0	YES	BELL & GOSSETT	E-1510-3AD	-
PHWP 02	HEATING WATER	BASE MOUNTED	600	145	WATER	0	16	3450	25.8	4	3	3DS-8B	3.3	GE-3	6.0	YES	BELL & GOSSETT	E-1510-3AD	-
PHWP 03	HEATING WATER	BASE MOUNTED	600	145	WATER	0	16	3450	25.8	4	3	3DS-8B	3.3	GE-3	6.0	YES	BELL & GOSSETT	E-1510-3AD	-
PHWP 04	HEATING WATER	BASE MOUNTED	600	145	WATER	0	16	3450	25.8	4	3	3DS-8B	3.3	GE-3	6.0	YES	BELL & GOSSETT	E-1510-3AD	-
PHWP 05	HEATING WATER	BASE MOUNTED	285	130	WATER	0	15.3	3463	12.6	2.5	2	3DS-4S	3.4	EC-3	7.8	YES	BELL & GOSSETT	E-1510-2AD	-
PHWP 06	HEATING WATER	BASE MOUNTED	285	130	WATER	0	15.3	3463	12.6	2.5	2	3DS-4S	3.4	EC-3	7.8	YES	BELL & GOSSETT	E-1510-2AD	-

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

ELECTRICAL

EQUIPMENT TAG	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	CONTROLLER TYPE	CONTROLLER FURNISHED BY/ INSTALLED BY	CONTROLLER LOCATION	CONTROLLER CTRL WIRE BY	DISCONNECT AT MOTOR AMPS/TYPE	DISCONNECT AT MOTOR FUSE SIZE (AMPS)	DISCONNECT AT MOTOR NEMA TYPE	DISCONNECT AT MOTOR FURNISHED BY/ INSTALLED BY	DISCONNECT AT MOTOR LOCATION	PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	ELECTRICAL NOTES
CP 01	50 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	100A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP2	5	1-1/4"C, 3#4 + #8 G	1
CP 02	50 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	100A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP1	5	1-1/4"C, 3#4 + #8 G	1
CP 03	50 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	100A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP1	6	1-1/4"C, 3#4 + #8 G	1
CP 04	50 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	100A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP2	6	1-1/4"C, 3#4 + #8 G	1
CP 05	7-1/2 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP1	7	3/4"C, 3#12 + #12 G	1
CP 06	7-1/2 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP1	8	3/4"C, 3#12 + #12 G	1
CP 07	5 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP2	7	3/4"C, 3#12 + #12 G	1
CP 08	5 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP2	8	3/4"C, 3#12 + #12 G	1
PCWP 01	50 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	100A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP2	3	1-1/4"C, 3#4 + #8 G	1
PCWP 02	50 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	100A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP1	3	1-1/4"C, 3#4 + #8 G	1
PCWP 03	50 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	100A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP1	4	1-1/4"C, 3#4 + #8 G	1
PCWP 04	50 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	100A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP2	4	1-1/4"C, 3#4 + #8 G	1
PCWP 05	7-1/2 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP1	10	3/4"C, 3#12 + #12 G	1
PCWP 06	7-1/2 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP1	11	3/4"C, 3#12 + #12 G	1
PCWP 07	15 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	60A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP2	10	3/4"C, 3#10 + #10 G	1
PCWP 08	15 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	60A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP2	11	3/4"C, 3#10 + #10 G	1
PHWP 01	30 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	NEAR UNIT	DIV 23	100A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	EH-CUP1	37,39,41	3/4"C, 3#8 + #8 G	1
PHWP 02	30 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	NEAR UNIT	DIV 23	100A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	EH-CUP2	37,39,41	3/4"C, 3#8 + #8 G	1
PHWP 03	30 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	NEAR UNIT	DIV 23	100A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	EH-CUP1	43,45,47	3/4"C, 3#8 + #8 G	1
PHWP 04	30 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	NEAR UNIT	DIV 23	100A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	EH-CUP2	2,4,6	3/4"C, 3#8 + #8 G	1
PHWP 05	15 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	60A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP1	9	3/4"C, 3#10 + #10 G	1
PHWP 06	15 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	60A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	-	MFR/MFR	AT UNIT	OH-CUP2	9	3/4"C, 3#10 + #10 G	1

GENERAL ELECTRICAL NOTES:

A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.

B. MECHANICAL EQUIPMENT AND CORRESPONDING ELECTRICAL DISCONNECTS/CONTROLLERS SHALL HAVE A STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THIS SCHEDULE, DETAILED BY THE "CALCULATED AFC" COLUMN.

ELECTRICAL NOTES:

1. PROVIDE INTEGRAL DISCONNECT WITH VFD.

CONTROLLER TYPES:

VFD - VARIABLE FREQUENCY MOTOR CONTROLLER
MAGS - MAGNETIC STARTER
MMS - MANUAL MOTOR STARTER (WITH OVERLOADS)
MRS/MS - MOTOR RATED SWITCH (WITHOUT OVERLOADS)
CP - CONTROL PANEL

EXPANSION TANK SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	TYPE	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	PRECHARGE PRESSURE (PSIG)	FILL TEMPERATURE (F)	FILL PRESSURE (PSI)	MAX OPERATING PRESSURE (PSI)	ASME CERTIFIED (YES/NO)	SIZE DIAMETER (IN)	SIZE LENGTH (IN)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
ET 01	HEATING WATER	REPLACEABLE BLADDER	1057	1057	57	55	57	100	YES	60	105	BELL & GOSSETT	B4000	-
ET 02	CHILLED WATER	REPLACEABLE BLADDER	132	132	57	40	57	100	YES	30	57	BELL & GOSSETT	B500	-

MECHANICAL NOTES:

AIR SEPARATOR SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	GPM	WATER CONNECTION SIZE (IN)	WPD (FT)	STRAINER (YES/NO)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
AS 01	HEATING WATER	2880	14	1.7	YES	BELL & GOSSETT	R-14F	1
AS 02	CHILLED WATER	3000	14	1.8	YES	BELL & GOSSETT	R-14F	1

MECHANICAL NOTES:

1. PROVIDE WITH FACTORY SUPPORT BRACKETS FOR SUPPORTING FROM STRUCTURE ABOVE.

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Date 09/22/2025 Reg. No. 48171

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Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE
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26146.000

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ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
HYDRONIC EQUIPMENT SCHEDULES

SHEET NO.
ME5.13

PLOT DATE:
9/18/2025 3:31:19 PM TEMPLATE VERSION 23.0.4

BOILER SCHEDULE - STEAM

MECHANICAL

EQUIPMENT TAG	APPLICATION	TYPE	BOILER RATED PRESSURE (PSIG)	STEAM OPERATING PRESSURE (PSIG)	STEAM OUTPUT (LBS/HR)	FLUE CONNECTION SIZE (IN)	BURNER				MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
							GAS INPUT (CFH)	GAS TYPE	GAS PRESSURE TO REGULATOR (PSIG)	TURNDOWN			
B 06	STERILE PROCESSING	FIRETUBE	150	75	1,730	12	2,110	NATURAL GAS	5	5:1	PRECISION BOILERS	FPS-58-50	-
B 07	STERILE PROCESSING	FIRETUBE	150	75	1,730	12	2,110	NATURAL GAS	5	5:1	PRECISION BOILERS	FPS-58-50	-
B 08	HUMIDIFICATION	FIRETUBE	150	12	3,440	14	4,200	NATURAL GAS	5	5:1	PRECISION BOILERS	FPS-62-100	-
B 09	HUMIDIFICATION	FIRETUBE	150	12	3,440	14	4,200	NATURAL GAS	5	5:1	PRECISION BOILERS	FPS-62-100	-

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

ELECTRICAL

EQUIPMENT TAG	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	CONTROLLER				DISCONNECT AT MOTOR					PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	ELECTRICAL NOTES
					TYPE	FURNISHED BY/ INSTALLED BY	LOCATION	CTRL WIRE BY	AMPS/TYPE	FUSE SIZE (AMPS)	NEMA TYPE	FURNISHED BY/ INSTALLED BY	LOCATION				
B 06	5 FLA	480 V	3	35KAIC	INTEGRAL CP	MFR/MFR	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-CUP2	25,27,29	3/4"C, 3#12 + #12 G	-
B 07	5 FLA	480 V	3	35KAIC	INTEGRAL CP	MFR/MFR	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-CUP1	19,21,23	3/4"C, 3#12 + #12 G	-
B 08	5 FLA	480 V	3	35KAIC	INTEGRAL CP	MFR/MFR	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-CUP2	31,33,35	3/4"C, 3#12 + #12 G	-
B 09	5 FLA	480 V	3	35KAIC	INTEGRAL CP	MFR/MFR	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-CUP1	25,27,29	3/4"C, 3#12 + #12 G	-

GENERAL ELECTRICAL NOTES:

A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.

B. MECHANICAL EQUIPMENT AND CORRESPONDING ELECTRICAL DISCONNECTS/CONTROLLERS SHALL HAVE A STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THIS SCHEDULE, DETAILED BY THE "CALCULATED AFC" COLUMN.

ELECTRICAL NOTES:

CONTROLLER TYPES:

MMS - MANUAL MOTOR STARTER (WITH OVERLOADS)
CP - CONTROL PANEL
MAGS - MAGNETIC STARTER
MRS/MS - MOTOR RATED SWITCH (WITHOUT OVERLOADS)

BOILER FEEDWATER PUMP SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	TYPE	TANK				PUMP							MECHANICAL NOTES
			CAPACITY (GALLONS)	MATERIAL	MANUFACTURER	MODEL NUMBER	PUMP TAG	PUMP SERVICE	FLOW (GPM)	HEAD (FT)	STARTERS	MANUFACTURER	MODEL NUMBER	
BFWP 01	12 PSI AND 75 PSI BOILERS	NON-ASME TANK	325	304 SS	BPS INDUSTRIES	G396BSS-2E	(BFWP 01,02,03) & (BFWP 04,05,06)	(12 PSI) & (75 PSI)	(18) & (8)	(60) & (265)	YES	GRUNDFOS	CR3	1,2,3,4,5

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

1. PUMPS ARE N+1 FOR 12 PSI AND 75 PSI SYSTEMS. PROVIDE TRIPLE OUTLET TO COMMON HEADER WITH MOTORIZED BALLVALVE FOR AUTOMATIC CROSSOVER OF THIRD PUMP.
2. PROVIDE PLC-120 CONTROL PANEL FOR CONTROL OF PUMPS (LEAD, LAG) AND MOTORIZED BALL VALVES. PROVIDE WITH 10" TOUCHSCREEN.
3. PROVIDE M-9-460 CONTROL PANEL WITH MAGNETIC STARTERS, TRANSFORMER, LOW WATER PUMP CUTOFF, SOLENOID CONTACT AND MOTORIZED BALL VALVE RELAYS.
4. PROVIDE PRE-HEATER 6-1.25TP WITH T&P REGULATING VALVE, AND TANK MOUNTED STEAM INJECTION HEATER TO HEAT 21 GPM FROM 50 DEGREES FAHRENHEIT TO 200 DEGREES FAHRENHEIT.
5. COMMON FEED WATER TANK.

ELECTRICAL

EQUIPMENT TAG	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	CONTROLLER				DISCONNECT AT MOTOR					PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	ELECTRICAL NOTES
					TYPE	FURNISHED BY/ INSTALLED BY	LOCATION	CTRL WIRE BY	AMPS/TYPE	FUSE SIZE (AMPS)	NEMA TYPE	FURNISHED BY/ INSTALLED BY	LOCATION				
BFWP 01	(3) 2 HP + (3) 3/4 HP	480 V	3	65KAIC	INTEGRAL CP	MFR/MFR	NEAR UNIT	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-CUP1	31,33,35	3/4"C, 3#10 + #10 G	-

GENERAL ELECTRICAL NOTES:

A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.

B. MECHANICAL EQUIPMENT AND CORRESPONDING ELECTRICAL DISCONNECTS/CONTROLLERS SHALL HAVE A STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THIS SCHEDULE, DETAILED BY THE "CALCULATED AFC" COLUMN.

ELECTRICAL NOTES:

CONTROLLER TYPES:

MMS - MANUAL MOTOR STARTER (WITH OVERLOADS)
CP - CONTROL PANEL
MAGS - MAGNETIC STARTER
MRS/MS - MOTOR RATED SWITCH (WITHOUT OVERLOADS)

PREVIOUSLY ISSUED AS PART OF MECHANICAL PROCUREMENT PACKAGE

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HKS
BWBR

OWNER
HEALTHPARTNERS
3000 CURVE CREST BLVD
STILLWATER, MN 55082

OWNER'S REPRESENTATIVE
CONCORD GROUP
1000 NORTH WATER STREET SUITE 1550
MILWAUKEE, WI 53202

GENERAL CONTRACTOR
KRAUS-ANDERSON
501 SOUTH 8TH STREET
MINNEAPOLIS, MN 55404

ARCHITECT OF RECORD
HKS, INC.
125 SOUTH CLARK STREET, SUITE 1100
CHICAGO, IL 60603

ASSOCIATE ARCHITECT
BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 0424120-001-00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
2550 UNIVERSITY AVE W SUITE 423S
SAINT PAUL, MN 55114

CIVIL ENGINEER/LANDSCAPE
LOUCKS INC.
7200 HEMLOCK LANE, SUITE 300
MAPLE GROVE, MN 55369

MEDICAL EQUIPMENT
IMEG CORP.
12755 HIGHWAY 55, SUITE 100
MINNEAPOLIS, MN 55441

ELEVATOR CONSULTANT
VDA, INC.
120 EAGLE ROCK AVENUE, SUITE 310
EAST HANOVER, NJ 07936

FOOD SERVICE
RIPPE ASSOCIATES
10650 RED CIRCLE DRIVE, SUITE 100
MINNEAPOLIS, MN 55343

HealthPartners®
LAKEVIEW CAMPUS
3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Justin A. Thiner, P.E.

Date 09/22/2025 Reg. No. 48171

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Alyse M. Finley, P.E.

Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE
	MECH PROCUREMENT	03/21/2025

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
STEAM EQUIPMENT SCHEDULES

SHEET NO.
ME5.14

PLOT DATE:
9/18/2025 3:31:34 PM TEMPLATE VERSION 23.0.4

VARIABLE FREQUENCY MOTOR CONTROLLER SCHEDULE

MECHANICAL/ELECTRICAL

EQUIPMENT TAG	VOLTAGE	PHASE	ENCLOSURE TYPE (NEMA 1/4/X/12)	ENCLOSURE PLENUM RATED (YES/NO)	SEISMIC BRACING (YES/NO)	VARIABLE TORQUE/ CONSTANT TORQUE	HARMONIC CONTROL		VFD BYPASS				MULTIPLE MOTOR CONTROL (YES/NO)	DAMPER CONTROL CIRCUIT (YES/NO)	ESSENTIAL SERVICE/ FIRE FIGHTER MODE (YES/NO)	LEED REQUIREMENTS (YES/NO)	NOTES
							INPUT AC LINE (YES/NO)	OUTPUT AC LINE (YES/NO)	BYPASS (YES/NO)	BYPASS TYPE (CONTACTOR/ VFD)	BYPASS CONTROL TYPE (MANUAL/ AUTOMATIC)	MOTOR STARTING IN BYPASS MODE (FULL/REDUCED VOLTAGE)					
AHUR 01A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 01B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 01C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 01D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 02A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 02B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 02C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 02D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 03A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 03B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 03C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 03D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 04A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 04B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 04C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 04D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 05A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 05B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 05C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 05D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 06A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 06B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 07A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 07B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 07C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 07D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 08A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 08B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 08C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 08D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 08E	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 08F	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 09A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 09B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 09C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 09D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 11A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 11B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 11C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 11D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 12A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 12B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 13A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 13B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 13C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 13D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 14A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 14B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 14C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 14D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 15A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 15B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 15C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 15D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 16A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR 16B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR EF-06A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR EF-06B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR EF-06C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR EF-06D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR EF-10A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR EF-10B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR EF-10C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR EF-10D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR EF-13A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUR EF-13B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 01A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 01B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 01C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 01D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 02A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 02B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 02C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 02D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 03A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 03B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 03C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 03D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 04A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 04B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 04C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 04D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 05A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
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AHUS 05C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 05D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 06A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 06B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 06C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 06D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 07A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 07B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 07C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 07D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 08A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 08B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 08C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 08D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 08E	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 08F	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 08G	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 08H	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 09A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 09B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 09C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 09D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 10A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 10B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 10C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 10D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 11A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 11B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 11C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 11D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 12A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 12B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 12C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 12D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 13A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 13B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 13C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 13D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 13E	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 13F	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 14A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 14B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 14C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 14D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 15A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 15B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 15C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 15D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 16A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 16B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 16C	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
AHUS 16D	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
CP 01	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
CP 02	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
CP 03	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
CP 04	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
CP 05	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
CP 06	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
CP 07	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
CP 08	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
CT 01A	480 V	3	NEMA-12	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
CT 02A	480 V	3	NEMA-12	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
CT 03A	480 V	3	NEMA-12	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
PCWP 01	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
PCWP 02	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
PCWP 03	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
PCWP 04	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
PCWP 05	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
PCWP 06	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
PCWP 07	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
PCWP 08	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
PHWP 01	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
PHWP 02	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
PHWP 03	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
PHWP 04	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
PHWP 05	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1
PHWP 06	480 V	3	NEMA-12	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	1

GENERAL NOTES:

A. FOR VFD'S WITH BYPASS PROVISIONS, SEPARATE MOTOR OVERLOAD PROTECTION REQUIRED FOR EACH MOTOR, WHEN IN THE BYPASS POSITION.
B. VFD EQUIPMENT SHALL HAVE STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THE MOTOR SCHEDULE.
C. VFDS TO HAVE INTEGRAL DISCONNECT UNLESS NOTED OTHERWISE.

NOTES:

1. PROVIDE VFD WITH INTEGRAL LOCKABLE DISCONNECT.

PREVIOUSLY ISSUED AS PART OF MECHANICAL PROCUREMENT PACKAGE

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HKS
BWBR

OWNER
HEALTHPARTNERS
3000 CURVE CREST BLVD
STILLWATER, MN 55082

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CONCORD GROUP
1000 NORTH WATER STREET SUITE 1550
MILWAUKEE, WI 53202

GENERAL CONTRACTOR
KRAUS-ANDERSON
501 SOUTH 8TH STREET
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ARCHITECT OF RECORD
HKS, INC.
125 SOUTH CLARK STREET, SUITE 1100
CHICAGO, IL 60603

ASSOCIATE ARCHITECT
BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 0424120-001.00
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
2550 UNIVERSITY AVE W SUITE 423S
SAINT PAUL, MN 55114

CIVIL ENGINEER/LANDSCAPE
LOUCKS INC.
7200 HEMLOCK LANE, SUITE 300
MAPLE GROVE, MN 55369

MEDICAL EQUIPMENT
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12755 HIGHWAY 55, SUITE 100
MINNEAPOLIS, MN 55441

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10650 RED CIRCLE DRIVE, SUITE 100
MINNEAPOLIS, MN 55343

HealthPartners®
LAKEVIEW CAMPUS
3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Justin A. Thiner, P.E.
Date 09/22/2025 Reg. No. 48171

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE
	MECH PROCUREMENT	03/21/2025

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
VARIABLE FREQUENCY DRIVES SCHEDULE

SHEET NO.
ME5.15

PLOT DATE:
9/18/2025 8:31:02 PM TEMPLATE VERSION: 23.0.4

UNIT HEATER SCHEDULE - HEATING WATER

MECHANICAL

EQUIPMENT TAG	APPLICATION	TYPE	FAN CFM	FAN MOTOR HP	COIL EAT (F)	COIL COIL ROWS	COIL EWT (F)	COIL LWT (F)	COIL GPM	COIL GLYCOL TYPE	COIL GLYCOL %	COIL WPD (FT)	COIL CAPACITY (MBH)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
CUH 0-01	CUP	WALL INVERTED	630	1/15	40	2	120	100	3.5	PROPYLENE	50	2.1	35.3	STERLING	WI-1110-06	1,2
CUH 0-02	CUP	WALL INVERTED	630	1/15	40	2	120	100	3.5	PROPYLENE	50	2.1	35.3	STERLING	WI-1110-06	1,2
CUH 0-03	STAIR D	WALL INVERTED	630	1/15	40	2	130	110	7	NA	NA	3.3	45.9	STERLING	WI-1110-06	1,2
CUH 0-04	MOBILE IMAGING VESTIBULE	RECESSED WALL INVERTED	630	1/15	40	2	130	110	7	NA	NA	3.3	45.9	STERLING	RWI-1130-06	1,2
CUH 0-05	DINING VESTIBULE	RECESSED WALL INVERTED	630	1/15	40	2	130	110	7	NA	NA	3.3	45.9	STERLING	RWI-1130-06	1,2
CUH 0-06	STAIR C	RECESSED WALL INVERTED	630	1/15	40	2	130	110	7	NA	NA	3.3	45.9	STERLING	RWI-1130-06	1,2
CUH 1-01	WEST STAFF ENTRANCE	RECESSED WALL INVERTED	630	1/15	40	2	130	110	7	NA	NA	3.3	45.9	STERLING	RWI-1130-06	1,2
CUH 1-02	ED DECONTAM	RECESSED CEILING	630	1/15	40	2	130	110	7	NA	NA	3.3	45.9	STERLING	RC-1200-06	1,2
CUH 1-03	AMBULANCE VESTIBULE	RECESSED CEILING	630	1/15	40	2	130	110	7	NA	NA	3.3	45.9	STERLING	RC-1200-06	1,2
CUH 1-04	STAIR A	CEILING	630	1/15	40	2	130	110	7	NA	NA	3.3	45.9	STERLING	C-1160-06	1,2
CUH 1-05	DISCHARGE VESTIBULE	RECESSED WALL INVERTED	630	1/15	40	2	130	110	7	NA	NA	3.3	45.9	STERLING	RWI-1130-06	1,2
CUH 1-06	STAIR D	RECESSED WALL INVERTED	630	1/15	40	2	130	110	7	NA	NA	3.3	45.9	STERLING	RWI-1130-06	1,2
CUH 01-07	MAIN ENTRY VESTIBULE	RECESSED WALL INVERTED	630	1/15	40	2	130	110	7	NA	NA	3.3	45.9	STERLING	RWI-1130-06	1,2
CUH 1-08	STAIR F	RECESSED WALL INVERTED	630	1/15	40	2	130	110	7	NA	NA	3.3	45.9	STERLING	RWI-1130-06	1,2
CUH 1-09	STAIR E	RECESSED WALL INVERTED	630	1/15	40	2	130	110	7	NA	NA	3.3	45.9	STERLING	RWI-1130-06	1,2
CUH 1-10	EAST STAFF ENTRANCE	RECESSED WALL INVERTED	630	1/15	40	2	130	110	7	NA	NA	3.3	45.9	STERLING	RWI-1130-06	1,2
UH 0-01	CUP SERVICE DOOR	HORIZONTAL	2900	1/3	60	1	120	100	6.4	PROPYLENE	50	0.2	57.2	STERLING	HS-204	-
UH 0-02	FIRE PUMP/WATER ROOM	HORIZONTAL	1800	1/12	60	1	120	100	3.4	PROPYLENE	50	0.1	30.3	STERLING	HS-108	-
UH 0-03	CUP COL DOOR	HORIZONTAL	2900	1/3	60	1	120	100	6.4	PROPYLENE	50	0.2	57.2	STERLING	HS-204	-
UH 0-04	GENERATOR ROOM	HORIZONTAL	5500	1/2	60	1	120	100	11.2	PROPYLENE	50	0.4	100.9	STERLING	HS-360	-
UH 0-05	GENERATOR ROOM	HORIZONTAL	5500	1/2	60	1	120	100	11.2	PROPYLENE	50	0.4	100.9	STERLING	HS-360	-
UH 0-06	TRASH/RECYCLE	HORIZONTAL	1800	1/12	40	1	130	110	7.9	7.9	NA	NA	0.36	51.6	STERLING	HS-108
UH 0-07	LOADING DOCK	HORIZONTAL	5500	1/2	40	1	130	110	26.2	NA	NA	2.1	171.9	STERLING	HS-360	-
UH 0-08	LOADING DOCK	HORIZONTAL	5500	1/2	40	1	130	110	26.2	NA	NA	2.1	171.9	STERLING	HS-360	-
UH 0-09	LOADING DOCK	HORIZONTAL	5500	1/2	40	1	130	110	26.2	NA	NA	2.1	171.9	STERLING	HS-360	-
UH 0-10	LOADING DOCK	HORIZONTAL	5500	1/2	40	1	130	110	26.2	NA	NA	2.1	171.9	STERLING	HS-360	-
UH 0-11	LOADING DOCK	HORIZONTAL	5500	1/2	40	1	130	110	26.2	NA	NA	2.1	171.9	STERLING	HS-360	-
UH 0-12	LEVEL 00 MECHANICAL ROOM	HORIZONTAL	1800	1/12	40	1	130	110	7.9	NA	NA	0.36	51.6	STERLING	HS-108	-
UH 0-13	LEVEL 00 MECHANICAL ROOM	HORIZONTAL	1800	1/12	40	1	130	110	7.9	NA	NA	0.36	51.6	STERLING	HS-108	-
UH 4-01	LEVEL 04 PENTHOUSE	HORIZONTAL	1800	1/12	40	1	130	110	7.9	NA	NA	0.36	51.6	STERLING	HS-108	-
UH 4-02	LEVEL 04 PENTHOUSE	HORIZONTAL	1800	1/12	40	1	130	110	7.9	NA	NA	0.36	51.6	STERLING	HS-108	-
UH 6-01	LEVEL 06 PENTHOUSE	HORIZONTAL	1800	1/12	40	1	130	110	7.9	NA	NA	0.36	51.6	STERLING	HS-108	-
UH 6-02	LEVEL 06 PENTHOUSE	HORIZONTAL	1800	1/12	40	1	130	110	7.9	NA	NA	0.36	51.6	STERLING	HS-108	-
UH 6-03	LEVEL 06 PENTHOUSE	HORIZONTAL	1800	1/12	40	1	130	110	7.9	NA	NA	0.36	51.6	STERLING	HS-108	-
UH 6-04	LEVEL 06 PENTHOUSE	HORIZONTAL	1800	1/12	40	1	130	110	7.9	NA	NA	0.36	51.6	STERLING	HS-108	-
UH 6-05	STAIR PRESS ROOM	HORIZONTAL	900	1/20	40	1	130	110	4.4	NA	NA	0.17	28.7	STERLING	HS-60	-
UH 6-06	STAIR PRESS ROOM	HORIZONTAL	900	1/20	40	1	130	110	4.4	NA	NA	0.17	28.7	STERLING	HS-60	-
UH 6-07	STAIR PRESS ROOM	HORIZONTAL	900	1/20	40	1	130	110	4.4	NA	NA	0.17	28.7	STERLING	HS-60	-

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

1. HIGH CAPACITY UNIT WITH 2 ROW COIL.
2. ECM MOTOR.

ELECTRICAL

EQUIPMENT TAG	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	TYPE	CONTROLLER FURNISHED BY/ INSTALLED BY	CONTROLLER LOCATION	CONTROLLER CTRL WIRE BY	CONTROLLER AMPS/TYPE	CONTROLLER FUSE SIZE (AMPS)	CONTROLLER NEMA TYPE	DISCONNECT AT MOTOR FURNISHED BY/ INSTALLED BY	DISCONNECT AT MOTOR LOCATION	PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	ELECTRICAL NOTES
CUH 0-01	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	EL-CUP1	47	3/4"C, 2#12 + #12 G	-
CUH 0-02	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-CUP1	1	3/4"C, 2#12 + #12 G	-
CUH 0-03	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-L2	33	3/4"C, 2#12 + #12 G	-
CUH 0-04	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-L1	50	3/4"C, 2#12 + #12 G	-
CUH 0-05	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-L5	10	3/4"C, 2#12 + #12 G	-
CUH 0-06	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-L5	12	3/4"C, 2#12 + #12 G	-
CUH 1-01	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-14	46	3/4"C, 2#12 + #12 G	-
CUH 1-02	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-14	46	3/4"C, 2#12 + #12 G	-
CUH 1-03	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-14	48	3/4"C, 2#12 + #12 G	-
CUH 1-04	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-12	1	3/4"C, 2#12 + #12 G	-
CUH 1-05	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-12	3	3/4"C, 2#12 + #12 G	-
CUH 1-06	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-12	3	3/4"C, 2#12 + #12 G	-
CUH 1-07	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-13	48	3/4"C, 2#12 + #12 G	-
CUH 1-08	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-12	14	3/4"C, 2#12 + #12 G	-
CUH 1-09	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-18	2	3/4"C, 2#12 + #12 G	-
CUH 1-10	1/10 HP	120 V	1	<5KAIC	MRS	DIV 26/DIV 26	AT UNIT	DIV 23	INTEGRAL	-	NEMA-1	MFR/MFR	AT UNIT	NL-18	4	3/4"C, 2#12 + #12 G	-
UH 0-01	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-CUP1	41	3/4"C, 2#12 + #12 G	1
UH 0-02	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-CUP1	41	3/4"C, 2#12 + #12 G	1
UH 0-03	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-CUP1	47	3/4"C, 2#12 + #12 G	1
UH 0-04	1/2 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	NL-CUP1	5	3/4"C, 2#12 + #12 G	1
UH 0-05	1/2 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	LL-CUP1	19	3/4"C, 2#12 + #12 G	1
UH 0-06	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-L1	46	3/4"C, 2#12 + #12 G	1
UH 0-07	1/2 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-L1	46	3/4"C, 2#12 + #12 G	1
UH 0-08	1/2 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-L1	44	3/4"C, 2#12 + #12 G	1
UH 0-09	1/2 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-L1	33	3/4"C, 2#12 + #12 G	1
UH 0-10	1/2 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-L1	42	3/4"C, 2#12 + #12 G	1
UH 0-11	1/2 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-L1	49	3/4"C, 2#12 + #12 G	1
UH 0-12	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-L1	60	3/4"C, 2#12 + #12 G	1
UH 0-13	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-L2	6	3/4"C, 2#12 + #12 G	1
UH 4-01	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-4 1	13	3/4"C, 2#12 + #12 G	1
UH 4-02	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-41	13	3/4"C, 2#12 + #12 G	1
UH 6-01	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-PENT1	27	3/4"C, 2#12 + #12 G	1
UH 6-02	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-PENT2	25	3/4"C, 2#12 + #12 G	1
UH 6-03	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-PENT1	25	3/4"C, 2#12 + #12 G	1
UH 6-04	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-PENT1	31	3/4"C, 2#12 + #12 G	1
UH 6-05	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	LL-PENT1	2	3/4"C, 2#12 + #12 G	1
UH 6-06	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	LL-61	10	3/4"C, 2#12 + #12 G	1
UH 6-07	1/4 HP	120 V	1	<5KAIC	MMS	DIV 26/DIV 26	AT UNIT	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	LL-PENT1	4	3/4"C, 2#12 + #12 G	1

GENERAL ELECTRICAL NOTES:

A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.
B. MECHANICAL EQUIPMENT AND CORRESPONDING ELECTRICAL DISCONNECTS/CONTROLLERS SHALL HAVE A STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THIS SCHEDULE, DETAILED BY THE "CALCULATED AFC" COLUMN.

ELECTRICAL NOTES:

1. DISCONNECT AND CONTROLLER MMS CAN BE THE SAME PIECE OF EQUIPMENT.

CONTROLLER TYPES:

MMS - MANUAL MOTOR STARTER (WITH OVERLOADS)
CP - CONTROL PANEL
MAGS - MAGNETIC STARTER
MRS/MS - MOTOR RATED SWITCH (WITHOUT OVERLOADS)

HYDRONIC PUMP SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	TYPE	GPM	DISCHARGE HEAD (FT)	GLYCOL TYPE	GLYCOL %	NPSHR (FT)	RPM	BHP	SUCTION SIZE (IN)	DISCHARGE SIZE (IN)	TRIPLE DUTY VALVE MODEL NUMBER	TRIPLE DUTY VALVE PRESSURE DROP (FT)	SUCTION DIFFUSER MODEL NUMBER	SUCTION DIFFUSER PRESSURE DROP (FT)	VFD (YES/NO)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
GWP 01	HEATING WATER GLYCOL SYSTEM	INLINE	160	65	PROPYLENE	50	22.1	3249	3.49	2	2	3DS-4B	3.32	DB-3X	5.29	YES	BELL & GOSSETT	E-90 2AAC	-
GWP 02	HEATING WATER GLYCOL SYSTEM	INLINE	160	65	PROPYLENE	50	22.1	3249	3.49	2	2	3DS-4B	3.32	DB-3X	5.29	YES	BELL & GOSSETT	E-90 2AAC	-
HRP 01	AHU 13 HEAT RECOVERY SYSTEM	INLINE	280	65	PROPYLENE	50	10.8	1594	6.3	3	3					YES	BELL & GOSSETT	E-80 3x3x9.5C	-
HRP 02	AHU 13 HEAT RECOVERY SYSTEM	INLINE	280	65	PROPYLENE	50	10.8	1594	6.3	3	3					YES	BELL & GOSSETT	E-80 3x3x9.5C	-
HRP 03	AHU 10 HEAT RECOVERY SYSTEM	INLINE	300	100	PROPYLENE	50	13	3310	10.2	3	3					YES	BELL & GOSSETT	E-80 3x3x7C	-
HRP 04	AHU 10 HEAT RECOVERY SYSTEM	INLINE	300	100	PROPYLENE	50	13	3310	10.2	3	3					YES	BELL & GOSSETT	E-80 3x3x7C	-
HRP 05	AHU 06 HEAT RECOVERY SYSTEM	INLINE	70	75	PROPYLENE	50	9.45	3032	2.29	1.5	1.5					YES	BELL & GOSSETT	E-80 1.5x1.5x7C	-
HRP 06	AHU 06 HEAT RECOVERY SYSTEM	INLINE	70	75	PROPYLENE	50	9.45	3032	2.29	1.5	1.5					YES	BELL & GOSSETT	E-80 1.5x1.5x7C	-
HWP 01	AHU 13 HEATING COIL PUMP	INLINE	214	30	NA	NA	4	1046	2.38	4	4					YES	BELL & GOSSETT	E-80 4x4x9.5B	-
HWP 02	AHU 13 HEATING COIL PUMP	INLINE	113	35	NA	NA	4.55	1620	1.38	2.5	2.5					YES	BELL & GOSSETT	E-80 2.5x2.5x7B	-
HWP 03	AHU 10 HEATING COIL PUMP	INLINE	131	30	NA	NA	4.35	1664	1.38	3	3					YES	BELL & GOSSETT	E-80 3x3x7C	-
HWP 04	AHU 06 HEATING COIL PUMP	INLINE	91	30	NA	NA	4.01	1635	1.01	2.5	2.5	-	-	-	-	YES	BELL & GOSSETT	E-80 2.5x2.5x7B	-
SCWP 01	MRI CHILLED WATER SYSTEM	INLINE	84	75	NA	NA	6.47	1583	2.68	2	2	-	-	-	-	YES	BELL & GOSSETT	E-80 2x2x9.5C	-
SCWP 02	MRI CHILLED WATER SYSTEM	INLINE	84	75	NA	NA	6.47	1583	2.68	2	2	-	-	-	-	YES	BELL & GOSSETT	E-80 2x2x9.5C	-
SCWP 03	CT CHILLED WATER SYSTEM	INLINE	22	75	NA	NA	-	3369	1.53	1.5	1.5	-	-	-	-	NO	BELL & GOSSETT	ECOCIRC XL 110-180 3PH	1
SCWP 04	CT CHILLED WATER SYSTEM	INLINE	22	75	NA	NA	-	3369	1.53	1.5	1.5	-	-	-	-	NO	BELL & GOSSETT	ECOCIRC XL 110-180 3PH	1
SMP 01	ED ENTRY SNOW MELT	INLINE	40	75	PROPYLENE	50	15	3432	1.3	1.0	1.0	-	-	-	-	YES	BELL & GOSSETT	E-90 1AAB	-
SMP 02	ED ENTRY SNOW MELT	INLINE	40	75	PROPYLENE	50	15	3432	1.3	1.0	1.0	-	-	-	-	YES	BELL & GOSSETT	E-90 1AAB	-
SMP 03	ED ENTRY SNOW MELT	INLINE	60	75	PROPYLENE	50	12	3346	1.75	1.25	1.25	-	-	-	-	YES	BELL & GOSSETT	E-90 1.25AAB	-
SMP 04	ED ENTRY SNOW MELT	INLINE	60	75	PROPYLENE	50	12	3346	1.75	1.25	1.25	-	-	-	-	YES	BELL & GOSSETT	E-90 1.25AAB	-

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

1. EC MOTOR.

ELECTRICAL

EQUIPMENT TAG	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	TYPE	CONTROLLER FURNISHED BY/ INSTALLED BY	CONTROLLER LOCATION	CONTROLLER CTRL WIRE BY	DISCONNECT AT MOTOR AMPS/TYPE	DISCONNECT AT MOTOR FUSE SIZE (AMPS)	DISCONNECT AT MOTOR NEMA TYPE	DISCONNECT AT MOTOR FURNISHED BY/ INSTALLED BY	DISCONNECT AT MOTOR LOCATION	PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	ELECTRICAL NOTES
GWP 01	5 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	NEAR UNIT	DIV 23	60A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EH-CUP1	49,51,53	3/4"C, 3#12 + #12 G	-
GWP 02	5 HP	480 V	3	65KAIC	VFD	DIV 23/DIV 26	NEAR UNIT	DIV 23	60A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EH-CUP2	20,22,24	3/4"C, 3#12 + #12 G	-
HRP 01	10 HP	480 V	3	25 KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	30A/3P - FUSIBLE	NOTE 1	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-AHU10	25,27,29	3/4"C, 3#12 + #12 G	1
HRP 02	10 HP	480 V	3	25 KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	30A/3P - FUSIBLE	NOTE 1	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-AHU10	31,33,35	3/4"C, 3#12 + #12 G	1
HRP 03	15 HP	480 V	3	25 KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	60A/3P - FUSIBLE	NOTE 1	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-AHU10	13,15,17	3/4"C, 3#10 + #10 G	1
HRP 04	15 HP	480 V	3	25 KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	60A/3P - FUSIBLE	NOTE 1	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-AHU10	19,21,23	3/4"C, 3#10 + #10 G	1
HRP 05	5 HP	480 V	3	25 KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	30A/3P - FUSIBLE	NOTE 1	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-AHU06	32,34,36	3/4"C, 3#12 + #12 G	1
HRP 06	5 HP	480 V	3	25 KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	30A/3P - FUSIBLE	NOTE 1	NEMA-12	DIV 26/DIV 26	AT UNIT	EH-AHU06	26,28,30	3/4"C, 3#12 + #12 G	1
HWP 01	5 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	NON-FUSIBLE INTEGRAL TO VFD	-	NEMA-1	INTEGRAL	AT UNIT	EH-L2	14,16,18	3/4"C, 3#12 + #12 G	-
HWP 02	2 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	NON-FUSIBLE INTEGRAL TO VFD	-	NEMA-1	INTEGRAL	AT UNIT	EH-L2	20,22,24	3/4"C, 3#12 + #12 G	-
HWP 03	2 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	NON-FUSIBLE INTEGRAL TO VFD	-	NEMA-1	INTEGRAL	AT UNIT	EH-L1	44,46,48	3/4"C, 3#12 + #12 G	-
HWP 04	1-1/2 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	NON-FUSIBLE INTEGRAL TO VFD	-	NEMA-1	INTEGRAL	AT UNIT	EH-L1	50,52,54	3/4"C, 3#12 + #12 G	-
SCWP 01	5 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	NEMA-1	INTEGRAL	AT UNIT	OH-IMAGE2	25,27,29	3/4"C, 3#12 + #12 G	-
SCWP 02	5 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	AT UNIT	DIV 23	30A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	NEMA-1	INTEGRAL	AT UNIT	OH-IMAGE2	26,28,30	3/4"C, 3#12 + #12 G	-
SCWP 03	1-1/2 HP	480 V	3	10KAIC	INTEGRAL ECM	INTEGRAL	INTEGRAL	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	OH-IMAGE1	2,4,6	3/4"C, 3#12 + #12 G	-
SCWP 04	1-1/2 HP	480 V	3	10KAIC	INTEGRAL ECM	INTEGRAL	INTEGRAL	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	OH-IMAGE1	8,10,12	3/4"C, 3#12 + #12 G	-
SMP 01	2 HP	480 V	3	10KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	NH-11	31,33,35	3/4"C, 3#12 + #12 G	-
SMP 02	2 HP	480 V	3	10KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	NH-11	32,34,36	3/4"C, 3#12 + #12 G	-
SMP 03	3 HP	480 V	3	10KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	NH-11	37,39,41	3/4"C, 3#12 + #12 G	-
SMP 04	3 HP	480 V	3	10KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	NH-11	38,40,42	3/4"C, 3#12 + #12 G	-

GENERAL ELECTRICAL NOTES:

A. WHEN

FAN COIL UNIT SCHEDULE - CHILLED AND HEATING WATER

MECHANICAL

EQUIPMENT TAG	APPLICATION	TYPE	FAN: NUMBER OF FANS	FAN: NUMBER OF MOTORS AND HP	FAN: RPM (EACH)	FAN: TOTAL CFM	FAN: ESP (IN.W.C.)	COOLING COIL: WATER: EWT (F)	COOLING COIL: WATER: LWT (F)	COOLING COIL: WATER: GPM	COOLING COIL: WATER: GLYCOL TYPE	COOLING COIL: WATER: GLYCOL %	COOLING COIL: WATER: WPD (FT)	COOLING COIL: AIR: EAT DB (F)	COOLING COIL: AIR: EAT WB (F)	COOLING COIL: AIR: LAT DB (F)	COOLING COIL: AIR: LAT WB (F)	COOLING COIL: AIR: FACE VELOCITY (FPM)	COOLING COIL: AIR: SENSIBLE CAPACITY (MBH)	COOLING COIL: AIR: TOTAL CAPACITY (MBH)	HEATING COIL: WATER: EWT (F)	HEATING COIL: WATER: LWT (F)	HEATING COIL: WATER: GPM	HEATING COIL: WATER: GLYCOL TYPE	HEATING COIL: WATER: GLYCOL %	HEATING COIL: WATER: WPD (FT)	HEATING COIL: AIR: EAT (F)	HEATING COIL: AIR: LAT (F)	HEATING COIL: AIR: CAPACITY (MBH)	FILTER: TYPE	FILTER: MERV RATING	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
FCU 0-01	CHILLER ROOM VENTILATION	COOLING & HEATING	2	(2) 3.7	1193	3000	1.0	42	58	33.1	NA	NA	4.98	100	78	54.4	52.5	248.6	149.5	264.8	120	96.5	25.4	PROPYLENE	50	6.44	-20	60.9	265.3	PLEATED	8	DAIKIN	BCHE0601	-
FCU 0-02	FIRE PUMP/WATER ROOM	COOLING & HEATING	1	(1) 1/3	1031	600	0.25	42	58	2.6	NA	NA	4.93	80.0	65.0	54.4	53.6	374	16.8	20.5	120	100	1.2	PROPYLENE	50	0.79	65	81.3	10.7	PLEATED	8	DAIKIN	BCHD0081	-
FCU 0-03	ELECTRICAL ROOM	COOLING & HEATING	1	(1) 3/4	1562	1200	0.75	42	56.6	6.4	NA	NA	5	85	67	55.1	54.3	493.7	39.2	46.7	120	95.6	1.4	PROPYLENE	50	1.56	65	76.6	15.2	PLEATED	8	DAIKIN	BCHD0121	2
FCU 0-04	ELECTRICAL ROOM	COOLING & HEATING	1	(1) 3/4	1562	1200	0.75	42	56.6	6.4	NA	NA	5	85	67	55.1	54.3	493.7	39.2	46.7	120	95.6	1.4	PROPYLENE	50	1.56	65	76.6	15.2	PLEATED	8	DAIKIN	BCHD0121	2
FCU 0-05	MEDICAL COMPRESSOR COOLING	COOLING ONLY	2	(2) 4.4	2022	4500	0.75	42	59.7	16.0	NA	NA	2.23	80	65	55	54.6	449.4	123.3	141.6	-	-	-	-	-	-	-	-	-	PLEATED	8	DAIKIN	BCHE0501	-
FCU 0-06	CONTROL ROOM	COOLING & HEATING	1	(1) 1/3	1287	600	0.75	42	58	2.6	NA	NA	4.93	80	65	54.4	53.6	374	16.8	20.5	120	100	1.2	PROPYLENE	50	0.79	65	81.3	10.7	PLEATED	8	DAIKIN	BCHD0081	-
FCU 0-07	STAIR F	HEATING ONLY	1	(1) 1/4	-	315	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	130	110	1.5	NA	NA	0.41	50	92.7	14.7	PLEATED	8	DAIKIN	FHHH203	-
FCU 1-01	AMBULANCE VESTIBULE	HEATING ONLY	1	(1) 1/3	999	550	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	130	111.3	2.6	NA	NA	2.35	50	90.2	24.2	PLEATED	8	DAIKIN	BCHD0061	-
FCU 1-02	ED VESTIBULE	HEATING ONLY	1	(1) 1/2	1309	1100	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	130	109.9	5.2	NA	NA	8.99	50	92.7	51.4	PLEATED	8	DAIKIN	BCHD0101	-
FCU 1-03	DISCHARGE VESTIBULE	HEATING ONLY	1	(1) 1/3	999	550	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	130	111.3	2.6	NA	NA	2.35	50	90.2	24.2	PLEATED	8	DAIKIN	BCHD0061	-
FCU 1-04	MAIN VESTIBULE	COOLING & HEATING	2	(2) 1/2	1475	1650	0.5	42	58	6.5	NA	NA	3.1	75	65	54.8	54.6	514.3	36.4	51.9	130	110	7.3	NA	NA	4.39	50	90.3	72.7	PLEATED	8	DAIKIN	BCHD0161	-
FCU 1-05	STAIR E	HEATING ONLY	1	(1) 1/4	-	160	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	130	110.1	0.9	NA	NA	0.15	50	99.8	8.7	PLEATED	8	DAIKIN	FHHH202	-
FCU 3-01	STAIR F	COOLING & HEATING	2	(2) 1/2	1141	1300	0.5	42	58	5.5	NA	NA	26.72	75	65	54.5	53.9	405.2	29.2	43.6	130	110	6.3	NA	NA	3.01	50	94.3	63.0	PLEATED	8	DAIKIN	BCHD0161	-
FCU 3-02	STAIR E	COOLING & HEATING	1	(1) 1	1575	1250	0.5	42	57.4	5.2	NA	NA	4.99	75	65	54.6	54.4	514.3	27.9	40.1	130	109.6	5.5	NA	NA	9.9	50	90.9	55.8	PLEATED	8	DAIKIN	BCHD0121	-
FCU 4-01	ELEV 11 & 12 CONTROL ROOM	COOLING & HEATING	1	(1) 1/3	1395	600	0.5	42	58	2.3	NA	NA	5.41	75	65	55.2	55.0	493.7	13.0	18.3	130	105.6	1.1	NA	NA	0.42	70	90.5	13.4	PLEATED	8	DAIKIN	BCHD0061	-
FCU 6-01	6TH FLOOR NORMAL ELECTRICAL	COOLING & HEATING	1	(1) 1/3	1395	600	0.5	42	58	2.3	NA	NA	5.41	75	65	55.2	55.0	493.7	13.0	18.3	130	105.6	1.1	NA	NA	0.42	70	90.5	13.4	PLEATED	8	DAIKIN	BCHD0061	-
FCU 6-02	6TH FLOOR EMERGENCY ELECTRICAL ROOM	COOLING & HEATING	1	(1) 1/3	1395	600	0.5	42	58	2.3	NA	NA	5.41	75	65	55.2	55.0	493.7	13.0	18.3	130	105.6	1.1	NA	NA	0.42	70	90.5	13.4	PLEATED	8	DAIKIN	BCHD0061	-
FCU 6-03	ELEV 4, 5 & 6 EQUIPMENT & CONTROL ROOM	COOLING & HEATING	2	(2) 3/4	1516	2200	0.5	42	58.1	8.5	NA	NA	5.67	75	65	54.9	54.7	545.3	48.3	68.6	130	102.9	4.0	NA	NA	1.43	70	92.5	54.1	PLEATED	8	DAIKIN	BCHD0201	-
FCU 6-04	ELEV 1, 2 & 3 CONTROL ROOM	COOLING & HEATING	1	(1) 1/2	1221	850	0.5	42	58.1	3.4	NA	NA	2.34	75	65	54.6	54.4	349.7	19	27.4	130	110	2.2	NA	NA	1.66	70	90.1	18.7	PLEATED	8	DAIKIN	BCHD0101	-
FCU 6-05	ELEV 1, 2 & 3 CONTROL ROOM	COOLING & HEATING	1	(1) 1/2	1221	850	0.5	42	58.1	3.4	NA	NA	2.34	75	65	54.6	54.4	349.7	19	27.4	130	110	2.2	NA	NA	1.66	70	90.1	18.7	PLEATED	8	DAIKIN	BCHD0101	-

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

1. EC MOTOR.
2. PROVIDE WITH CONDENSATE PUMP.

ELECTRICAL

EQUIPMENT TAG	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	CONTROLLER: TYPE	CONTROLLER: FURNISHED BY/ INSTALLED BY	CONTROLLER: LOCATION	CONTROLLER: CTRL WIRE BY	DISCONNECT AT MOTOR: AMPS/TYPE	DISCONNECT AT MOTOR: FUSE SIZE (AMPS)	DISCONNECT AT MOTOR: NEMA TYPE	DISCONNECT AT MOTOR: FURNISHED BY/ INSTALLED BY	DISCONNECT AT MOTOR: LOCATION	PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	ELECTRICAL NOTES
FCU 0-01	18.7 MCA	208 V	3	5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	30A/3P - NON FUSIBLE	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	EL-CUP1	33,35,37	3/4"C, 3#12 + #10 G	-
FCU 0-02	5.5 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	EL-CUP1	39	3/4"C, 2#12 + #12 G	-
FCU 0-03	11 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	EL-CUP1	43	3/4"C, 2#12 + #12 G	-
FCU 0-04	11 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	EL-CUP1	45	3/4"C, 2#12 + #12 G	-
FCU 0-05	26 MCA	208 V	3	5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	30A/3P - NON FUSIBLE	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	EL-CUP2	5,7,9	3/4"C, 3#10 + #10 G	-
FCU 0-06	5.5 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	EL-CUP2	11	3/4"C, 2#12 + #12 G	-
FCU 0-07	4.4 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	LL-L3	1	3/4"C, 2#12 + #12 G	-
FCU 1-01	5.5 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	NL-14	48	3/4"C, 2#12 + #12 G	-
FCU 1-02	8 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	NL-12	1	3/4"C, 2#12 + #12 G	-
FCU 1-03	5.5 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	NL-12	3	3/4"C, 2#12 + #12 G	-
FCU 1-04	14.4 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	NL-13	46	3/4"C, 2#12 + #12 G	-
FCU 1-05	4.4 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	NL-18	2	3/4"C, 2#12 + #12 G	-
FCU 3-01	14.4 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	NL-37	4	3/4"C, 2#12 + #12 G	-
FCU 3-02	14 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	NL-37	2	3/4"C, 2#12 + #12 G	-
FCU 4-01	5.5 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	EL-41	15	3/4"C, 2#12 + #12 G	-
FCU 6-01	5.5 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	EL-PENT1	33	3/4"C, 2#12 + #12 G	-
FCU 6-02	5.5 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	EL-PENT1	35	3/4"C, 2#12 + #12 G	-
FCU 6-03	19.8 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	EL-PENT1	23	3/4"C, 2#12 + #10 G	-
FCU 6-04	8 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	LL-61	7	3/4"C, 2#12 + #12 G	-
FCU 6-05	8 MCA	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	AT UNIT	DIV 23	MRS	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	EL-PENT1	37	3/4"C, 2#12 + #12 G	-

GENERAL ELECTRICAL NOTES:

A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.
B. MECHANICAL EQUIPMENT AND CORRESPONDING ELECTRICAL DISCONNECTS/CONTROLLERS SHALL HAVE A STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THIS SCHEDULE, DETAILED BY THE "CALCULATED AFC" COLUMN.

ELECTRICAL NOTES:

CONTROLLER TYPES:

MMS - MANUAL MOTOR STARTER (WITH OVERLOADS)
CP - CONTROL PANEL
MAGS - MAGNETIC STARTER
MRS/MS - MOTOR RATED SWITCH (WITHOUT OVERLOADS)

FAN FILTER UNIT SCHEDULE

MECHANICAL (238219)

EQUIPMENT TAG	APPLICATION	CFM	MODULE SIZE (W"xL")	DUCT CONNECTION SIZE (IN)	EFFICIENCY (%)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
FFU 01	STERILE DRUG ROOM	380	24"x48"	12	HEPA	PRICE	FFU	1,2,3
FFU 02	STERILE DRUG ROOM	380	24"x48"	12	HEPA	PRICE	FFU	1,2,3
FFU 03	STERILE DRUG ROOM	190	24"x24"	10	HEPA	PRICE	FFU	1,2,3
FFU 04	ANTE ROOM	320	24"x48"	12	HEPA	PRICE	FFU	1,2,3
FFU 05	ANTE ROOM	320	24"x48"	12	HEPA	PRICE	FFU	1,2,3
FFU 06	ANTE ROOM	160	24"x24"	10	HEPA	PRICE	FFU	1,2,3
FFU 07	HAZARDOUS DRUG ROOM	380	24"x48"	12	HEPA	PRICE	FFU	1,2,3
FFU 08	HAZARDOUS DRUG ROOM	380	24"x48"	12	HEPA	PRICE	FFU	1,2,3
FFU 09	HAZARDOUS DRUG ROOM	380	24"x48"	12	HEPA	PRICE	FFU	1,2,3
FFU 10	HAZARDOUS DRUG ROOM	380	24"x48"	12	HEPA	PRICE	FFU	1,2,3
FFU 11	HAZARDOUS DRUG ROOM	380	24"x48"	12	HEPA	PRICE	FFU	1,2,3
FFU 12	HAZARDOUS DRUG ROOM	380	24"x48"	12	HEPA	PRICE	FFU	1,2,3

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

1. ROOM SIDE REMOVABLE HEPA FILTER. ALUMINUM PLENUM AND FACE MATERIAL. ROOM SIDE ACCESS TO MOTOR/BLOWER, DISCONNECT SWITCH AND INTEGRATION TO BAS.
2. LED STATUS INDICATOR, ECM MOTOR, BACKWARD CURVED IMPELLER, CONSTANT TORQUE MOTOR PROGRAM.
3. PROVIDE REMOTE THIRD PARTY HEPA FILTER PAO AERSOL CHALLENGE PORT KIT IN DUCTWORK UPSTREAM OF FAN FILTER UNIT.

ELECTRICAL

EQUIPMENT TAG	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	CONTROLLER: TYPE	CONTROLLER: FURNISHED BY/ INSTALLED BY	CONTROLLER: LOCATION	CONTROLLER: CTRL WIRE BY	DISCONNECT AT MOTOR: AMPS/TYPE	DISCONNECT AT MOTOR: FUSE SIZE (AMPS)	DISCONNECT AT MOTOR: NEMA TYPE	DISCONNECT AT MOTOR: FURNISHED BY/ INSTALLED BY	DISCONNECT AT MOTOR: LOCATION	PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	ELECTRICAL NOTES
FFU 01	1.5 FLA	120 V	1	<5KAIC	MMS	INTEGRAL	AT UNIT	DIV 23	MMS	-	NEMA-1	INTEGRAL	AT UNIT	CL-11	45	3/4"C, 2#12 + #12 G	1
FFU 02	1.5 FLA	120 V	1	<5KAIC	MMS	INTEGRAL	AT UNIT	DIV 23	MMS	-	NEMA-1	INTEGRAL	AT UNIT	CL-14	46	3/4"C, 2#12 + #12 G	1
FFU 03	1.5 FLA	120 V	1	<5KAIC	MMS	INTEGRAL	AT UNIT	DIV 23	MMS	-	NEMA-1	INTEGRAL	AT UNIT	CL-11	47	3/4"C, 2#12 + #12 G	1
FFU 04	1.5 FLA	120 V	1	<5KAIC	MMS	INTEGRAL	AT UNIT	DIV 23	MMS	-	NEMA-1	INTEGRAL	AT UNIT	CL-14	48	3/4"C, 2#12 + #12 G	1
FFU 05	1.5 FLA	120 V	1	<5KAIC	MMS	INTEGRAL	AT UNIT	DIV 23	MMS	-	NEMA-1	INTEGRAL	AT UNIT	CL-11	49	3/4"C, 2#12 + #12 G	1
FFU 06	1.5 FLA	120 V	1	<5KAIC	MMS	INTEGRAL	AT UNIT	DIV 23	MMS	-	NEMA-1	INTEGRAL	AT UNIT	CL-14	50	3/4"C, 2#12 + #12 G	1
FFU 07	1.5 FLA	120 V	1	<5KAIC	MMS	INTEGRAL	AT UNIT	DIV 23	MMS	-	NEMA-1	INTEGRAL	AT UNIT	CL-11	51	3/4"C, 2#12 + #12 G	1
FFU 08	1.5 FLA	120 V	1	<5KAIC	MMS	INTEGRAL	AT UNIT	DIV 23	MMS	-	NEMA-1	INTEGRAL	AT UNIT	CL-14	52	3/4"C, 2#12 + #12 G	1
FFU 09	1.5 FLA	120 V	1	<5KAIC	MMS	INTEGRAL	AT UNIT	DIV 23	MMS	-	NEMA-1	INTEGRAL	AT UNIT	CL-11	53	3/4"C, 2#12 + #12 G	1
FFU 10	1.5 FLA	120 V	1	<5KAIC	MMS	INTEGRAL	AT UNIT	DIV 23	MMS	-	NEMA-1	INTEGRAL	AT UNIT	CL-14	54	3/4"C, 2#12 + #12 G	1
FFU 11	1.5 FLA	120 V	1	<5KAIC	MMS	INTEGRAL	AT UNIT	DIV 23	MMS	-	NEMA-1	INTEGRAL	AT UNIT	CL-11	55	3/4"C, 2#12 + #12 G	1
FFU 12	1.5 FLA	120 V	1	<5KAIC	MMS	INTEGRAL	AT UNIT	DIV 23	MMS	-	NEMA-1	INTEGRAL	AT UNIT	CL-14	56	3/4"C, 2#12 + #12 G	1

GENERAL ELECTRICAL NOTES:

A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.
B. MECHANICAL EQUIPMENT AND CORRESPONDING ELECTRICAL DISCONNECTS/CONTROLLERS SHALL HAVE A STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THIS SCHEDULE, DETAILED BY THE "CALCULATED AFC" COLUMN.

ELECTRICAL NOTES:

1. PROVIDE REMOTE MMS IN ADJACENT SPACE ABOVE CEILING AS INDICATED ON POWER PLAN.

CONTROLLER TYPES:

MMS - MANUAL MOTOR STARTER (WITH OVERLOADS)
CP - CONTROL PANEL
MAGS - MAGNETIC STARTER
MRS/MS - MOTOR RATED SWITCH (WITHOUT OVERLOADS)

REHEAT COIL SCHEDULE - ELECTRIC

MECHANICAL (238216)

EQUIPMENT TAG	AREA SERVED	CFM	DUCT WIDTH (IN)	DUCT HEIGHT (IN)	COIL: ROWS	AIR: EAT (F)	AIR: LAT (F)	AIR: APD (IN W.C.)	CONTROL STEPS	CAPACITY (MBH)	CAPACITY (KW)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
RHC 0-02	COMPRESSED GAS ROOM	400	12	12	1	-20	62.5	-	-	35805	10.5	INDEECO	QUA	1

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

1. PROVIDE WITH SCR CONTROLLER WITH 0-10V INPUT.

ELECTRICAL

EQUIPMENT TAG	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	CONTROLLER: TYPE	CONTROLLER: FURNISHED BY/ INSTALLED BY	CONTROLLER: LOCATION	CONTROLLER: CTRL WIRE BY	DISCONNECT AT MOTOR: AMPS/TYPE	DISCONNECT AT MOTOR: FUSE SIZE (AMPS)	DISCONNECT AT MOTOR: NEMA TYPE	DISCONNECT AT MOTOR: FURNISHED BY/ INSTALLED BY	DISCONNECT AT MOTOR: LOCATION	PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	ELECTRICAL NOTES
RHC 0-02	12 FLA	480 V	3	35KAIC	INTEGRAL	MFR/MFR	AT UNIT	DIV 23	INTEGRAL	-	-	MFR/MFR	AT UNIT	EH-L2	43,45,47	3/4"C, 3#12 + #12 G	-

GENERAL ELECTRICAL NOTES:

A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.
B. MECHANICAL EQUIPMENT AND CORRESPONDING ELECTRICAL DISCONNECTS/CONTROLLERS SHALL HAVE A STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THIS SCHEDULE, DETAILED BY THE "CALCULATED AFC" COLUMN.

ELECTRICAL NOTES:

CONTROLLER TYPES:

MMS - MANUAL MOTOR STARTER (WITH OVERLOADS)
CP - CONTROL PANEL
MAGS - MAGNETIC STARTER
MRS/MS - MOTOR RATED SWITCH (WITHOUT OVERLOADS)

HKS
BWBR

OWNER
HEALTHPARTNERS
3000 CURVE CREST BLVD
STILLWATER, MN 55082

OWNER'S REPRESENTATIVE
CONCORD GROUP
1000 NORTH WATER STREET SUITE 1550
MILWAUKEE, WI 53202

GENERAL CONTRACTOR
KRAUS-ANDERSON
501 SOUTH 8TH STREET
MINNEAPOLIS, MN 55404

ARCHITECT OF RECORD
HKS, INC.
125 SOUTH CLARK STREET, SUITE 1100
CHICAGO, IL 60603

ASSOCIATE ARCHITECT
BWBR
380 ST PETER STREET, UNIT 600
SAINT PAUL, MN 55102

MEP ENGINEER
DUNHAM ASSOCIATES DUNHAM PROJECT # 0420-120-0010
50 SOUTH SIXTH STREET, SUITE 1100
MINNEAPOLIS, MN 55402

STRUCTURAL ENGINEER
ERA STRUCTURAL ENGINEERING
2550 UNIVERSITY AVE W SUITE 423S
SAINT PAUL, MN 55114

CIVIL ENGINEER/LANDSCAPE
LOUCKS INC.
7200 HEMLOCK LANE, SUITE 300
MAPLE GROVE, MN 55369

MEDICAL EQUIPMENT
IMEG CORP.
12755 HIGHWAY 55, SUITE 100
MINNEAPOLIS, MN 55441

ELEVATOR CONSULTANT
VDA, INC.
120 EAGLE ROCK AVENUE, SUITE 310
EAST HANOVER, NJ 07936

FOOD SERVICE
RIPPE ASSOCIATES
10650 RED CIRCLE DRIVE, SUITE 100
MINNEAPOLIS, MN 55343

HealthPartners®
LAKEVIEW CAMPUS
3000 CURVE CREST BOULEVARD, STILLWATER, MINNESOTA 55082

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Justin A. Thiner, P.E.
Date 09/22/2025 Reg. No. 48171

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Alyse M. Finley, P.E.
Date 09/22/2025 Reg. No. 59587

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26146.000

DATE
09/22/2025

ISSUE
BP-03 INTERIOR FIT-OUT MEP

SHEET TITLE
HVAC EQUIPMENT SCHEDULES

SHEET NO.
ME5.17

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PLOT DATE: 9/19/2025 6:32:38 PM TEMPLATE VERSION: 23.0.4

VARIABLE FREQUENCY MOTOR CONTROLLER SCHEDULE

MECHANICAL/ELECTRICAL

EQUIPMENT TAG	VOLTAGE	PHASE	ENCLOSURE TYPE (NEMA 1/4X/12)	ENCLOSURE PLENUM RATED (YES/NO)	SEISMIC BRACING (YES/NO)	VARIABLE TORQUE/ CONSTANT TORQUE	HARMONIC CONTROL		VFD BYPASS							LEED REQUIREMENTS (YES/NO)	NOTES
							INPUT AC LINE (YES/NO)	OUTPUT AC LINE (YES/NO)	BYPASS (YES/NO)	BYPASS TYPE (CONTACTOR/ VFD)	BYPASS CONTROL TYPE (MANUAL/ AUTOMATIC)	MOTOR STARTING IN BYPASS MODE (FULL/REDUCED VOLTAGE)	MULTIPLE MOTOR CONTROL (YES/NO)	DAMPER CONTROL CIRCUIT (YES/NO)	ESSENTIAL SERVICE/ FIRE FIGHTER MODE (YES/NO)		
EF 0-02	480 V	3	NEMA-12	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 0-05	480 V	3	NEMA-12	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 3-04	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	YES	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 3-05A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	YES	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 3-05B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	YES	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 3-06	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	YES	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 3-07	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	YES	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 3-10A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	YES	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 3-10B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	YES	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 3-13A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	YES	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 3-13B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	YES	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 3-14	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	YES	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 3-15	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	YES	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 3-16	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	YES	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 3-17	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	YES	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 6-01A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 6-01B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 6-04	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 6-05	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 6-06	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 6-07	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 6-08	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 6-09	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 6-10	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 6-11	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 6-12A	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
EF 6-12B	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
GWP 01	480 V	3	NEMA-1	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
GWP 02	480 V	3	NEMA-1	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
HRP 01	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
HRP 02	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
HRP 03	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
HRP 04	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
HRP 05	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
HRP 06	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
HWP 01	480 V	3	NEMA-1	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
HWP 02	480 V	3	NEMA-1	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
HWP 03	480 V	3	NEMA-1	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
HWP 04	480 V	3	NEMA-1	NO	NO	VARIABLE	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
SCWP 01	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-
SCWP 02	480 V	3	NEMA-1	NO	NO	VARIABLE	YES	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	-

GENERAL NOTES:

A. FOR VFD'S WITH BYPASS PROVISIONS, SEPARATE MOTOR OVERLOAD PROTECTION REQUIRED FOR EACH MOTOR, WHEN IN THE BYPASS POSITION.
B. VFD EQUIPMENT SHALL HAVE STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THE MOTOR SCHEDULE.
C. VFDS TO HAVE INTEGRAL DISCONNECT UNLESS NOTED OTHERWISE.

NOTES:

FAN SCHEDULE

MECHANICAL

EQUIPMENT TAG	APPLICATION	TYPE	CFM	ESP (IN W.C.)	BHP	FAN RPM	DRIVE TYPE	SONES	VFD (YES/NO)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
EF 0-01	GENERATOR ROOM	INLINE	4000	0.75	0.8	1150	DIRECT	12.5/14.6	NO	GREENHECK	SQ-18-M2-VG	3
EF 0-02	TRASH ROOM, HAZARDOUS WASTE	WALL UPBLAST	2250	1.25	0.78	1293	DIRECT	15.9	YES	GREENHECK	CUE-160-A	-
EF 0-03	COMPRESSED GAS ROOM	INLINE	500	0.5	0.08	2164	DIRECT	9.2	NO	GREENHECK	SQ-7-M1-VG	1
EF 0-04	LEVEL 00 MECHANICAL ROOM VENTILATION FAN	SIDEWALL	8600	0.5	2	1504	DIRECT	29	NO	GREENHECK	AER-24-03-0630-VG	3,5,6
EF 0-05	FACILITIES WELDING HOOD	WALL UPBLAST	1925	1.5	0.83	1575	DIRECT	15.5	YES	GREENHECK	CUE-160HP-A	4
EF 1-01	CHILLER ROOM	DOWNBLAST	3000	0.75	0.71	863	DIRECT	11.3	NO	GREENHECK	G-200-VG	1
EF 1-02	MED GAS ROOM	DOWNBLAST	500	0.5	0.08	1603	DIRECT	7.8	NO	GREENHECK	G-090-VG	1
EF 1-03	BOILER ROOM	DOWNBLAST	2500	0.75	0.51	934	DIRECT	10.2	NO	GREENHECK	G-180-VG	1
EF 3-02	ELEVATOR	DOWNBLAST	500	0.5	0.1	1460	DIRECT	8.3	NO	GREENHECK	G-095-VG	1
EF 3-03	ELEVATOR	DOWNBLAST	500	0.5	0.1	1460	DIRECT	8.3	NO	GREENHECK	G-095-VG	1
EF 3-04	PACU ISO ROOM	UTILITY SET	300	0.75	0.13	1838	DIRECT	13.6/18.6	YES	GREENHECK	USF-04-B6	-
EF 3-05A	EMERGENCY DEPARTMENT ISO ROOM	UTILITY SET	1870	1.5	0.65	1495	DIRECT	14.8/16.1	YES	GREENHECK	USF-15-B7	-
EF 3-05B	EMERGENCY DEPARTMENT ISO ROOM	UTILITY SET	1870	1.5	0.65	1495	DIRECT	14.8/16.1	YES	GREENHECK	USF-15-B7	-
EF 3-06	PREP/RECOVERY ISO ROOM	UTILITY SET	450	0.5	0.06	1331	DIRECT	9.2/17.5	YES	GREENHECK	USF-04-B7	-
EF 3-07	PRE/POST GENERAL EXHAUST	DOWNBLAST	3280	1.25	1.39	1528	DIRECT	21	YES	GREENHECK	G-160-A	-
EF 3-08	HOSPITAL OPERATING ROOM GENERAL EXHAUST	DOWNBLAST	1000	0.75	0.2	1298	DIRECT	10	NO	GREENHECK	G-120-VG	1
EF 3-09	ASC OPERATING ROOM GENERAL EXHAUST	DOWNBLAST	1250	0.75	0.27	1425	DIRECT	11.9	NO	GREENHECK	G-120-VG	1
EF 3-10A	LAB HOOD	UTILITY SET	2900	1.75	1.31	1858	DIRECT	21/25	YES	GREENHECK	USF-15-B7	-
EF 3-10B	LAB HOOD	UTILITY SET	2900	1.75	1.31	1858	DIRECT	21/25	YES	GREENHECK	USF-15-B7	-
EF 3-11	ASC PRE/POST GENERAL EXHAUST	DOWNBLAST	1800	0.75	0.47	1317	DIRECT	11.4	NO	GREENHECK	G-140-VG	1
EF 3-12	LEVEL 01 GENERAL EXHAUST	DOWNBLAST	1090	0.5	0.22	1572	DIRECT	9.2	NO	GREENHECK	G-100-VG	1
EF 3-13A	HAZARDOUS HOOD	UTILITY SET	2800	1.25	0.9	1352	DIRECT	15.1/16.6	YES	GREENHECK	USF-16-B7	-
EF 3-13B	HAZARDOUS HOOD	UTILITY SET	2800	1.25	0.9	1352	DIRECT	15.1/16.6	YES	GREENHECK	USF-16-B7	-
EF 3-14	KITCHEN HOOD	UPBLAST	6100	2	3.6	1140	DIRECT	28	YES	GREENHECK	CUE-240-B	2
EF 3-15	LEVEL 00 GENERAL EXHAUST	DOWNBLAST	5010	1.75	2.5	1023	DIRECT	17.9	YES	GREENHECK	G-240-B	-
EF 3-16	UC ISO ROOM EXHAUST	UTILITY SET	225	1	0.13	1872	DIRECT	14.3/19.1	YES	GREENHECK	USF-04-B6	-
EF 3-17	SERVERY HOODS	UPBLAST	3000	2	2.2	1725	DIRECT	22	YES	GREENHECK	CUE-180HP-A	2
EF 3-18	MRI EMERGENCY EXHAUST	DOWNBLAST	1400	0.5	0.24	1051	DIRECT	8.1	NO	GREENHECK	G-140-VG	1
EF 3-19	MRI EMERGENCY EXHAUST	DOWNBLAST	1400	0.5	0.24	1051	DIRECT	8.1	NO	GREENHECK	G-140-VG	1
EF 4-01	LEVEL 02 AND 03 CLINIC GENERAL EXHAUST	UTILITY SET	3190	0.75	0.81	1319	DIRECT	16.1/17.2	NO	GREENHECK	USF-16-B7	3
EF 4-02	LEVEL 01 CLINIC GENERAL EXHAUST	UTILITY SET	1240	0.75	0.24	1319	DIRECT	10.1/10.7	NO	GREENHECK	USF-13-B7	3
EF 4-03	LEVEL 00 CLINIC GENERAL EXHAUST	UTILITY SET	1250	0.75	0.24	1132 3	DIRECT	10.1/10.7	NO	GREENHECK	USF-13-B7	3
EF 4-04	ELEVATOR	DOWNBLAST	500	0.5	0.1	1460	DIRECT	8.3	NO	GREENHECK	G-095-VG	1
EF 4-05	ELEVATOR	DOWNBLAST	500	0.5	0.1	1460	DIRECT	8.3	NO	GREENHECK	G-095-VG	1
EF 4-06	LEVEL 04 PENTHOUSE VENTILATION	SIDEWALL	5700	0.5	0.95	1387	DIRECT	24	NO	GREENHECK	AER-24-03-0620-VG	3,5,6
EF 6-01A	PROG CARE ISO ROOMS	UTILITY SET	4210	1	1.41	1391	DIRECT	21	YES	GREENHECK	USF-18-B6	-
EF 6-01B	PROG CARE ISO ROOMS	UTILITY SET	4210	1	1.41	1391	DIRECT	21	YES	GREENHECK	USF-18-B6	-
EF 6-02	IMAGING GENERAL EXHAUST	DOWNBLAST	1590	1	0.5	1370	DIRECT	11.4	NO	GREENHECK	G-140-VG	1
EF 6-03	NUC MED EXHAUST	DOWNBLAST	1215	1	0.33	1523	DIRECT	12.5	NO	GREENHECK	G-120-VG	1
EF 6-04	HOT LAB EXHAUST	UTILITY SET	810	0.75	0.17	1621	DIRECT	11.2/19.1	YES	GREENHECK	USF-08-B7	-
EF 6-05	NURSERY ISO ROOM	UTILITY SET	380	0.5	0.05	1218	DIRECT	8.8/14.3	YES	GREENHECK	USF-06-B7	-
EF 6-06	H4221 ADA ISO MED SURG	UTILITY SET	670	0.75	0.14	1490	DIRECT	9.7/17.8	YES	GREENHECK	USF-08-B7	-
EF 6-07	LEVEL 05 GENERAL EXHAUST	DOWNBLAST	3495	1	1.34	1509	DIRECT	21	YES	GREENHECK	G-160-A	-
EF 6-08	H4222 ISO MED SURG	UTILITY SET	620	0.75	0.12	1374	DIRECT	7.7/9.6	YES	GREENHECK	USF-12-B7	-
EF 6-09	LEVEL 04 GENERAL EXHAUST	DOWNBLAST	5350	1.25	1.94	916	DIRECT	17.3	YES	GREENHECK	G-240-B	-
EF 6-10	LDRP ISO ROOM	UTILITY SET	845	.75	0.18	1655	DIRECT	11.7/19.5	YES	GREENHECK	USF-08-B7	-
EF 6-11	LEVEL 03 GENERAL EXHAUST	DOWNBLAST	4150	1.25	1.8	1366	DIRECT	20	YES	GREENHECK	G-200HP-A	-
EF 6-12A	ICU ISO ROOMS	UTILITY SET	4550	1.5	2	1559	DIRECT	24/23	YES	GREENHECK	USF-18-B6	-
EF 6-12B	ICU ISO ROOMS	UTILITY SET	4550	1.5	2	1559	DIRECT	24/23	YES	GREENHECK	USF-18-B6	-
EF 6-13	LEVEL 06 PENTHOUSE VENTILATION FAN	SIDEWALL	8275	0.5	1.89	1465	DIRECT	28	NO	GREENHECK	AER-24-03-0630-VG	3,5,6
EF 6-14	LEVEL 06 PENTHOUSE VENTILATION FAN	SIDEWALL	8275	0.5	1.89	1465	DIRECT	28	NO	GREENHECK	AER-24-03-0630-VG	3,5,6
EF 7-01	ELEVATOR	DOWNBLAST	500	0.5	0.1	1460	DIRECT	8.3	NO	GREENHECK	G-095-VG	1
OAF 0-01	COMPRESSED GAS ROOM	INLINE	400	0.5	0.06	1994	DIRECT	7.9	NO	GREENHECK	SQ-7-M1-VG	1
OAF 1-01	MED GAS ROOM	SUPPLY	500	0.75	0.21	2984	DIRECT	18.8	NO	GREENHECK	KSQ-7-M1-VG	1

GENERAL MECHANICAL NOTES:

A. REFER TO ELECTRICAL SECTION BELOW FOR CALCULATED SHORT-CIRCUIT CURRENT AT EQUIPMENT.

MECHANICAL NOTES:

1. EC MOTOR WITH 0-10V SPEED CONTROL.
2. FAN SERVES TYPE 1 KITCHEN HOOD.
3. 3-PHASE WITH INTEGRAL SPEED CONTROL.
4. SPARK RESISTANT CLASS B.
5. PROVIDE WALL HOUSING WITH GUARD, FACTORY MOUNTED MOTORIZED DAMPER AND 24 VAC ACTUATOR AND END SWITCHES. MOTOR ACCESS FROM INTERIOR OF THE BUILDING.
6. INTERLOCK EXHAUST FAN WITH OUTDOOR AIR MOTORIZED DAMPERS SERVING MECHANICAL ROOM.

ELECTRICAL

EQUIPMENT TAG	CONTROLLER								DISCONNECT AT MOTOR							ELECTRICAL NOTES
	HP/LOAD	VOLTAGE	PHASE	CALCULATED AFC	TYPE	FURNISHED BY/ INSTALLED BY	LOCATION	CTRL WIRE BY	AMPS/TYPE	FUSE SIZE (AMPS)	NEMA TYPE	FURNISHED BY/ INSTALLED BY	LOCATION	PANEL	CIRCUIT NUMBER	CONDUIT/FEEDER SIZE	
EF 0-01	2 HP	480 V	3	10KAIC	INTEGRAL	DIV 23/DIV 26	AT UNIT	DIV 23	30A/3P - NON FUSIBLE	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	LH-GEN	2,4,6	3/4"C, 3#12 + #12 G	-
EF 0-02	2 HP	480 V	3	<5KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	EH-L2	25,27,29	3/4"C, 2#12 + #12 G	-
EF 0-03	1/2 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-L1	48	3/4"C, 2#12 + #12 G	-
EF 0-04	3 HP	480 V	3	10KAIC	INTEGRAL	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON FUSIBLE	-	NEMA-1	DIV 26/DIV 26	BELOW UNIT	EH-L2	26,28,30	3/4"C, 3#12 + #12 G	-
EF 0-05	1-1/2 HP	480 V	3	<5KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE INTEGRAL TO VFD	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EH-L2	31,33,35	3/4"C, 2#12 + #12 G	-
EF 1-01	1 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-CUP2	2	3/4"C, 2#12 + #10 G	-
EF 1-02	1/10 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-CUP2	4	3/4"C, 2#12 + #12 G	-
EF 1-03	1 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-CUP2	8	3/4"C, 2#12 + #10 G	-
EF 3-02	1/6 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-31	2	3/4"C, 2#12 + #12 G	-
EF 3-03	1/6 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-31	3	3/4"C, 2#12 + #12 G	-
EF 3-04	1 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-31	1,3,5	3/4"C, 3#12 + #12 G	-
EF 3-05A	1-1/2 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-31	7,9,11	3/4"C, 3#12 + #12 G	-
EF 3-05B	1-1/2 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-31	13,15,17	3/4"C, 3#12 + #12 G	-
EF 3-06	1/4 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-31	19,21,23	3/4"C, 3#12 + #12 G	-
EF 3-07	2 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-31	25,27,29	3/4"C, 3#12 + #12 G	-
EF 3-08	1/2 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-31	4	3/4"C, 2#12 + #12 G	-
EF 3-09	1/2 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-31	9	3/4"C, 2#12 + #12 G	-
EF 3-10A	2 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-31	31,33,35	3/4"C, 3#12 + #12 G	-
EF 3-10B	2 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-31	37,39,41	3/4"C, 3#12 + #12 G	-
EF 3-11	1 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-31	7	3/4"C, 2#12 + #10 G	-
EF 3-12	1/4 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-31	5	3/4"C, 2#12 + #12 G	-
EF 3-13A	1-1/2 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-31	2,4,6	3/4"C, 3#12 + #12 G	-
EF 3-13B	1-1/2 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-31	8,10,12	3/4"C, 3#12 + #12 G	-
EF 3-14	5 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-31	14,16,18	3/4"C, 3#12 + #12 G	-
EF 3-15	5 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-31	26,28,30	3/4"C, 3#12 + #12 G	-
EF 3-16	1 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-31	32,34,36	3/4"C, 3#12 + #12 G	-
EF 3-17	3 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-31	20,22,24	3/4"C, 3#12 + #12 G	-
EF 3-18	1/2 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-31	6	3/4"C, 2#12 + #12 G	-
EF 3-19	1/2 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-31	11	3/4"C, 2#12 + #12 G	-
EF 4-01	1HP	480 V	3	10KAIC	INTEGRAL	MFR/MFR	INTEGRAL	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EH-41	7,9,11	3/4"C, 3#12 + #12 G	-
EF 4-02	1HP	480 V	3	10KAIC	INTEGRAL	MFR/MFR	INTEGRAL	DIV 23	30A/3P - NON FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EH-41	13,15,17	3/4"C, 3#12 + #12 G	-
EF 4-03	1HP	480 V	3	10KAIC	INTEGRAL	MFR/MFR	INTEGRAL	DIV 23	30A/3P - NON FUSIBLE	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EH-41	19,21,23	3/4"C, 3#12 + #12 G	-
EF 4-04	1/6 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-41	9	3/4"C, 2#12 + #12 G	-
EF 4-05	1/6 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-41	11	3/4"C, 2#12 + #12 G	-
EF 4-06	2 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-41	17	3/4"C, 2#12 + #10 G	-
EF 6-01A	3 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-PENT2	19,21,23	3/4"C, 3#12 + #12 G	-
EF 6-01B	3 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-PENT2	25,27,29	3/4"C, 3#12 + #12 G	-
EF 6-02	1 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EL-PENT1	3	3/4"C, 3#12 + #12 G	-
EF 6-03	1/2 HP	120 V	1	<5KAIC	INTEGRAL	INTEGRAL	INTEGRAL	DIV 23	MMS	-	NEMA-1	DIV 26/DIV 26	AT UNIT	EL-PENT1	5	3/4"C, 2#12 + #12 G	-
EF 6-04	1/4 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-PENT2	31,33,35	3/4"C, 3#12 + #12 G	-
EF 6-05	1/4 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-PENT2	37,39,41	3/4"C, 3#12 + #12 G	-
EF 6-06	1/4 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-PENT2	14,16,18	3/4"C, 3#12 + #12 G	-
EF 6-07	3 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-PENT1	31,33,35	3/4"C, 3#12 + #12 G	-
EF 6-08	1/3 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-PENT1	25,27,29	3/4"C, 3#12 + #12 G	-
EF 6-09	5 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-PENT1	37,39,41	3/4"C, 3#12 + #12 G	-
EF 6-10	1/4 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NEMA-3R	DIV 26/DIV 26	AT UNIT	EH-PENT1	2,4,6	3/4"C, 3#12 + #12 G	-
EF 6-11	5 HP	480 V	3	10KAIC	VFD	DIV 23/DIV 26	REMOTE	DIV 23	30A/3P - NON-FUSIBLE	-	NE